

MITAC EMC Laboratory

No.200, Wen Hwa 2nd Rd., Guishan Dist., Taoyuan City 33383, Taiwan
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TEST REPORT

Regulatory Model No.:

MX2-10ADP-XXXXXXXXXXXXXXXXXX

(Where "X" can be 0-9,A-Z, hyphen, or blank for marketing purpose)

Prepared For:

MITAC DIGITAL TECHNOLOGY CORP.

According to

**EN 55032 、 CISPR 32 、 BS EN 55032 、
EN 55035 、 CISPR 35 、 BS EN 55035 、
IEC 61000-3-2 、 EN IEC 61000-3-2 、
BS EN IEC 61000-3-2 、 IEC 61000-3-3 、
EN 61000-3-3 and BS EN 61000-3-3
Requirements**

Test Report No.: 20240012CAR0A

Application Date: 07/23/2024

Tested Date: 08/01/2024~08/15/2024

Issued Date: 09/04/2024

Prepared by: MITAC EMC Laboratory

Test Report No.: 20240012CAR0A

Prepared for MITAC DIGITAL TECHNOLOGY CORP.

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No.200, Wen Hwa 2nd Rd., Guishan Dist., Taoyuan City 33383, Taiwan

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DISCLAIMER NOTICE

The following information listed in this report, including detailed specification and photo of EUT, measuring equipment and conditions, testing results, and photography of measuring equipment and testing set-up, are all provided solely by our laboratory for testing purpose.

Our laboratory is not liable to those following information listed in this report, including applicant basic information, product model, product specification and application, trademark, interference source, suppression component, printed circuit board diagram, and take-back & storage service of EUT after being tested.

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The method of testing described in this report refers to the new version of the regulations according to customer's requirements. If there is a risk of misjudgment, it is not the responsibility of the laboratory.

The results shown in this test report refer only to the EUT subjected under test.

REPRODUCTION CLAUSE

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APPLIED STANDARDS

According to specification of manufacturer , the EUT must comply with the following requirements.

Below are basic standards version used for all the test items in this report.

Emission Test items	Basic Standard version used in this report	Remark
Conducted Emission	EN 55032:2015/A1:2020 CISPR 32:2015/AMD1:2019 BS EN 55032:2015+A1:2020	---
Radiated Emission	EN 55032:2015/A1:2020 CISPR 32:2015/AMD1:2019 BS EN 55032:2015+A1:2020	---
Harmonic Current Emission	IEC 61000-3-2:2018/AMD1:2020/ ISH1:2021 EN IEC 61000-3-2:2019+A1:2021 BS EN IEC 61000-3-2:2019+A1:2021	---
Voltage Fluctuations/Flicker	IEC 61000-3-3:2013/AMD1:2017 +A2:2021+COR1:2022 EN 61000-3-3:2013+A1:2019+ A2:2021+AC:2022-01 BS EN 61000-3-3:2013+A1:2019+ A2:2021	---

Immunity Test items	Basic Standard version used in this report	Remark
Electrostatic Discharge	EN 55035:2017+A11:2020 CISPR 35:2016 BS EN 55035:2017+A11:2020 IEC 61000-4-2:2008 EN 61000-4-2:2009 BS EN 61000-4-2:2009	---
Radiated Susceptibility	EN 55035:2017+A11:2020 CISPR 35:2016 BS EN 55035:2017+A11:2020 IEC 61000-4-3:2020 EN IEC 61000-4-3:2020 BS EN IEC 61000-4-3-TC:2020	---
Electrical Fast Transients	EN 55035:2017+A11:2020 CISPR 35:2016 BS EN 55035:2017+A11:2020 IEC 61000-4-4:2012 EN 61000-4-4:2012 BS EN 61000-4-4:2012	---

(cont'd)

Surge Immunity	EN 55035:2017+A11:2020 CISPR 35:2016 BS EN 55035:2017+A11:2020 IEC 61000-4-5:2014/AMD1:2017 EN 61000-4-5:2014+A1:2017 BS EN 61000-4-5:2014+A1:2017	---
Conducted Susceptibility	EN 55035:2017+A11:2020 CISPR 35:2016 BS EN 55035:2017+A11:2020 IEC 61000-4-6:2023 EN IEC 61000-4-6:2023 BS EN IEC 61000-4-6-TC:2023	---
Power Frequency Magnetic Field	EN 55035:2017+A11:2020 CISPR 35:2016 BS EN 55035:2017+A11:2020 IEC 61000-4-8:2009 EN 61000-4-8:2010 BS EN 61000-4-8:2010	---
Voltage Dips and Short Interruption	EN 55035:2017+A11:2020 CISPR 35:2016 BS EN 55035:2017+A11:2020 IEC 61000-4-11:2020/COR1:2020/ COR2:2022 EN IEC 61000-4-11:2020/AC:2020-10 BS EN IEC 61000-4-11:2020	---

ADMINISTRATIVE DATA

Test Sample :Box PC

Classification of EUT :Class A

Regulatory Model Number :MX2-10ADP-XXXXXXXXXXXXXXXXXX(Where "X" can be 0-9, A-Z,hyphen,or blank for marketing purpose)

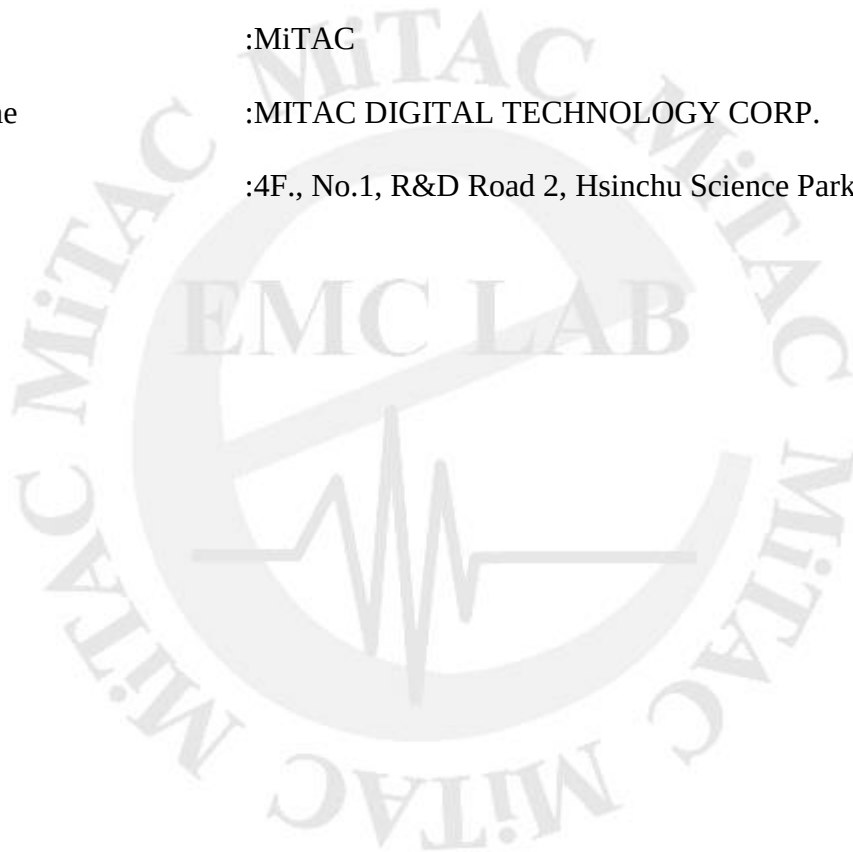
Serial Number of EUT :427MX20013

Rating of EUT :DC Input:9-48V DC 14-6.25A

Brand Name :MiTAC

Applicant Name :MITAC DIGITAL TECHNOLOGY CORP.

Address :4F., No.1, R&D Road 2, Hsinchu Science Park, Hsinchu, Taiwan



CONSTRUCTION OF EUT

The EUT was evaluated 4 modes and components list required as below table. All of the results can meet the test requirements and will present the test result of mode 1(worst case) in this report.

MX2-10ADP	DESCRIPTION	MAX. load per system	mode 1 (High Chassis)	mode 2 (High Chassis)	mode 3 (Standard Chassis)	mode 4 (Standard Chassis)
System						
Motherboard		1				
MITAC	316D89200003-R0B		1	1	1	1
PSU		1				
EDAC	EA12501J-2400, AC Input:100-240v,50-60Hz DC Output:24v,9.16A		1	1	1	1
Riser Card		1				
MITAC	316D80500032 TF-PCB,SBU,MX1-10FEP,MP-01RCN		1	1	1	1
Chassis	Case	1				
MX2D	High chassis		1	1		
MX2	Standard chassis				1	1
CPU		1				
Intel	Intel Core i9-12900K, Intel® Core™ i9 CPU Alder Lake,5.2GHz		1	1	1	1
M.2		1				
innodisk	DEM28-32GM41BW1DC,32GB		1	1	1	1
HDD		1				
SanDisk	SD9SB8W-256G-1016 256GB		1	1	1	1
SSD		1				
innodisk	DES25-32GM41BW1DC,32GB		1	1	1	1
DIMM		2				
SAMSUNG	M425R4GA3B80-CQK0D,32GB		2	2	2	2
WIRELESS MODULE		1				
QCNFA344A	WNFQ-258ACN(BT)(W)		1	1	1	1
SKU Card		3				
MS-48CDN-DT10	316D80500024-R0C MITAC		1			1
MS-04LAN-R10	316D80500025-R0C MITAC		1			1
MS-04LAN-M10	316D80500026-R0C MITAC			1		
MS-04POE-R10	316D80500033-R0C,316D80500035-R0B MITAC			1	1	
MS-04POE-M10	316D80500028-R0C,316D80500018-R0B MITAC				1	
ME-02POE-R10	316D80500037-R01 MITAC				1	
POE Card power board		2				
316D80500028	316D80500028 MITAC			1	2	

FINAL TEST CONSTRUCTION OF EUT

Regulatory Model No.: MX2-10ADP-XXXXXXXXXXXXXXXXXX
(Where "X" can be 0-9,A-Z,hyphen,or blank for marketing purpose)

Item	Mode 1
Chassis	MX2D (MiTAC)
CPU	Intel® CORE i9 -12900K/5.2GHz (Intel)
M/B	316D89200003-R0B (MiTAC)
MS-48CDNDT10 Card	316D80500024-R0C (MiTAC)
MS-04LANR10	316D80500025-R0C (MiTAC)
M.2	DEM28-32GM41BW1DC/32GB (innodisk)
HDD	SD9SB8W-256G-1016/256GB (SanDisk)
SSD	DES25-32GM41BW1DC/32GB (innodisk)
DIMM	M425R4GA3BBO-CQK0D/32GB*2 (Samsung)
WIFI Card	WNFQ-258ACN(BT)(W) (SparkLAN)
Adapter	EA12501J-2400 (EDACPOWER ELEC)

MEASUREMENT UNCERTAINTY

Test Item	Measurement Uncertainty
Conducted Emission (Power Port)	Conducted Emission Measurement Uncertainty = ± 2.41 dB. Derived from ISO/IEC 17025 and CISPR 16-4-2 :ed2.0+ AMD1:2014. +AMD2:2018 to the determination of uncertainties with a coverage factor K=2. At 95% minimum confidence level.
Conducted Emission (Asymmetric mode)	Conducted Emission ISN Measurement Uncertainty = ± 2.56 dB. Derived from ISO/IEC 17025 and CISPR 16-4-2 :ed2.0+ AMD.1:2014. +AMD2:2018 to the determination of uncertainties with a coverage factor K=2. At 95% minimum confidence level.
Radiated Emission	Radiated Emission from 30MHz to 1GHz measurement uncertainty = ± 3.99 dB. From 1GHz to 6GHz measurement uncertainty = ± 4.56 dB. Derived from ISO/IEC 17025 and CISPR 16-4-2 :ed2.0+ AMD.1:2014. +AMD2:2018 to the determination of uncertainties with a coverage factor K=2. At 95% minimum confidence level.



MEASUREMENT SOFTWARE

Test Item	Measurement Software
Conducted Emission Test	EZ_EMC for Windows Version Mit-A15
Radiated Emission Test	EZ_EMC for Windows Version Mit-A15
EFT Immunity Test_ UCS 500N5	iec.control Version 7.1.3
Surge Immunity Test_ UCS 500N5	iec.control Version 7.1.3
Voltage Dips, Short Interruption_UCS500N5	iec.control Version 7.1.3
Harmonic Current Emission_ DPA 500N	Net.control Version 3.2.8
Voltage Fluctuations/Flicker_ DPA 500N	Net.control Version 3.2.8
EFT Immunity Test_NX5	iec.control Version 8.3.7
Surge Immunity Test_NX5	iec.control Version 8.3.7
Voltage Dips, Short Interruption_NX5	iec.control Version 8.3.7
Conducted Susceptibility Test	EZ-CS for Windows Version Mit-A13
Radiated Susceptibility Test	EZ_RS for Windows Version Mit- A13
Harmonic Current Emission_ PPST	HFa-16 Program - version 1.0.42.0
Voltage Fluctuations/Flicker_ PPST	HFa-16 Program - version 1.0.42.0

TEST SUMMARY

The Electromagnetic Compatibility requirements on model **MX2-10ADP-XXXXXXXXXXXXXX** (Where "X" can be 0-9,A-Z,hyphen,or blank for marketing purpose) for these tests are stated below. All results listed in this report relate exclusively to this above-mentioned model as the Equipment Under Test. This report confers no approval or endorsement upon any other component, host or subsystem used in the test set-up.

Meanwhile, conducted emission in asymmetric mode is verified in shielded and unshielded cables and present the worst result under unshielded cable.

Conducted emission test in asymmetric mode is performed under link and idle modes and present the worst result under link mode.

The function of Wifi and BT were not operating yet.

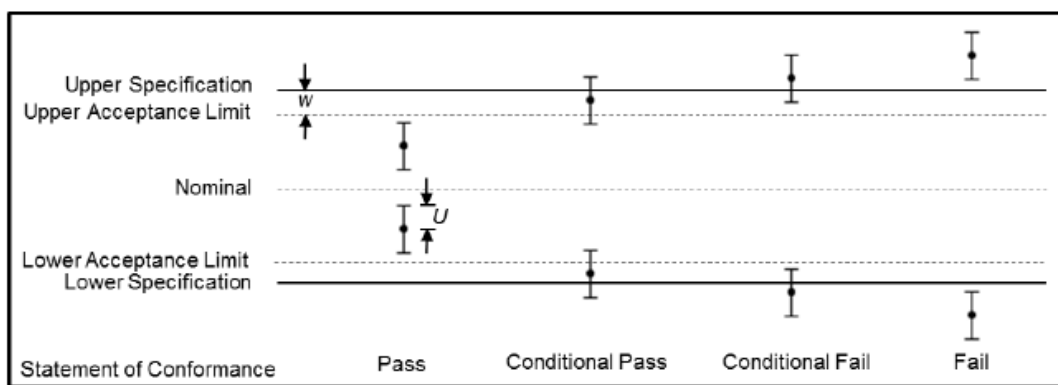
Test results conformance statement decision principle: Decision rules governed by regulations or standards.

Test results Compliant and Not compliant decision principle, in accordance with:
Priority when product (or product family) standards have individual specifications or the CISPR 16-4-2, Chapter 4.2 decision rules apply. If MU does not need to be counted on CISPR32, under limit is Compliant.

In the Radiate and Conducted emission test, the test result is expressed with measurement uncertainty as the below:

1. When providing a declaration of conformity to a specification or standard, the laboratory shall document the decision rules used to determine the decision to be taken.
Rules are related to their associated risk levels (eg, error acceptance, false rejection, and statistical assumptions) and apply this decision rule.
Remarks: When the decision rules are regulated by customers, regulations or standard documents, there is no need to further consider the risk level.
2. When the laboratory reports a declaration of conformity, the statement should clearly identify:
Corresponding product (or product family) standards and CISPR 16-4-2, Chapter 4.2 decision rules: Customer-specified decision rule.

If neither 1 nor 2 apply, the simple acceptance according to ILAC Guide 8 clause 4.2.3 is used.



$U = 95\%$ expanded measurement uncertainty

Graphical representation of a non-Binary statement with a guard band(shown for $w=U$)

Status	Description by words	Mathematical expression* (written in 2 ways)	Specific risk
Pass	The measured value is within the specification. The probability of a false accept (specific risk) is up to 2.5 %.	$AL_{lower} \leq y \leq AL_{upper}$ y within acceptance limit $ y \leq \text{specification} - U$	< 2.5 % PFA
Conditional pass(Pass –)	The measured value is within the specification. The probability of a false accept (specific risk) is below 50 % due to the value near to the specification.	$TL_{lower} \leq y < AL_{lower}$ or $AL_{upper} < y \leq TL_{upper}$ y within the guard band $\text{specification} - U < y \leq \text{specification}$	< 50 % PFA
Conditional fail (Fail –)	The measured value is out of specification. The probability of a false reject (specific risk) is below 50 % due to the value near to the specification.	$TL_{lower} - w \leq y < TL_{lower}$ or $TL_{upper} y \leq TL_{upper} + w$ y outside specification, but not by more than value of the guard band $\text{specification} < y \leq \text{specification} + U$	< 50 % PFR
Fail	The measured value is out of specification. The probability of a false reject (specific risk) is below 2.5 %.	$y \leq TL_{lower} - w$ or $y \geq TL_{upper} + w$ y outside specification by more than value of the guard band $ y > \text{specification} + U$	< 2.5 % PFR

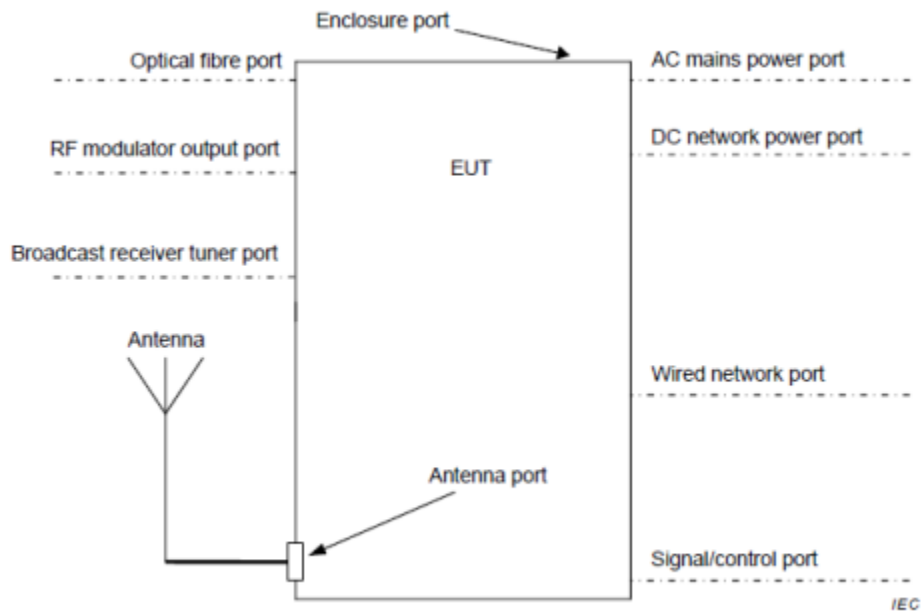


Figure 1 – Examples of ports

According to standard contains requirements for immunity testing of MME including: selection of applicable tests; disturbance levels to be applied during testing; configuration; performance criteria; and other necessary details. These requirements are contained in the main body of the document and in various annexes.

In this immunity testing, shall be application of an EM phenomenon to a port of the EUT and the assessment of its impact on the primary function(s).

During testing of ports as specified in Table 1 to Table 4 of the standard, we will be monitored primary function and assessed against the relevant performance criteria. e.g.

- Direct functions that can be observed or monitored.
- Indirect functions that can only be observed by monitoring direct functions.

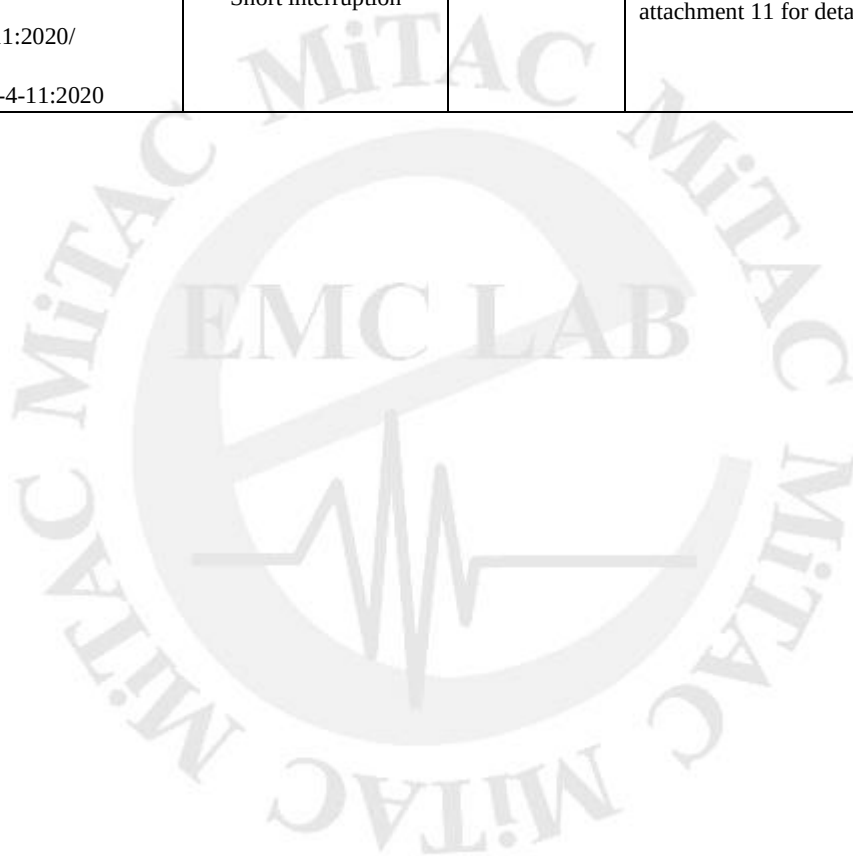
Mode 1				
Emission Tests				
Standard	Test Item	Test Result	Specification of Result	Remark
EN 55032:2015/A1:2020 CISPR 32:2015/AMD1:2019 BS EN 55032:2015+A1:2020 Class A	Conducted Emission (Power Port)	Compliant	Worst margin is Passed by -38.95dB of QP Passed by -33.65dB of AVG At 20.0408MHz Frequency	Attachment 1
	Conducted Emission (Asymmetric mode)	Compliant	Worst margin is I226-LM Port1/2.5Gbps: Passed by -28.04dB of QP Passed by -16.93dB of AVG At 0.5135MHz Frequency I226-LM Port2/2.5Gbps Passed by -24.18dB of QP Passed by -16.55dB of AVG At 0.892MHz Frequency I226-LM Port3/2.5Gbps Passed by -20.45dB of QP Passed by -12.24dB of AVG At 0.8782MHz Frequency I226-LM Port4/2.5Gbps Passed by -22.45dB of QP Passed by -14.61dB of AVG At 0.883MHz Frequency I210_MS-04LAN-R10 Port1/1Gbps: Passed by -27.19dB of QP Passed by -14.42dB of AVG At 2.3756MHz Frequency I210_MS-04LAN-R10 Port2/100Mbps Passed by -27.04dB of QP Passed by -14.42dB of AVG At 2.3757MHz Frequency I210_MS-04LAN-R10 Port3/1Gbps Passed by -26.72dB of QP Passed by -14.42dB of AVG At 2.3755MHz Frequency I210_MS-04LAN-R10 Port4/100Mbps Passed by -26.73dB of QP Passed by -14.48dB of AVG At 2.3755MHz Frequency	
EN 55032:2015/A1:2020 CISPR 32:2015/AMD1:2019 BS EN 55032:2015+A1:2020 Class A	Radiated Emission	Compliant	Worst margin is Passed by -9.73dB of QP At 296.9896MHz Frequency	Attachment 2
IEC 61000-3-2:2018/AMD1:2020/ ISH1:2021 EN IEC 61000-3-2:2019+A1:2021 BS EN IEC 61000-3-2:2019+ A1:2021	Power Harmonics	Compliant	Pass. Class A	Attachment 3

(cont'd)

IEC 61000-3-3:2013/AMD1:2017 +A2:2021+COR1:2022 EN 61000-3-3:2013+A1:2019+ A2:2021+AC:2022-01 BS EN 61000-3-3:2013+A1:2019+ A2:2021	Voltage Fluctuation	Compliant	Pass.	Attachment 4
Immunity Tests				
Standard	Test Item	Test Result	Specification of Result	Remark
EN 55035:2017+A11:2020 CISPR 35:2016 BS EN 55035:2017+A11:2020 IEC 61000-4-2:2008 EN 61000-4-2:2009 BS EN 61000-4-2:2009	Electrostatic Discharge	Compliant	Air Discharge: Level 3 at $\pm 8\text{kV}$ with Performance Criteria B Contact Discharge: Level 2 at $\pm 4\text{kV}$ with Performance Criteria B	Attachment 5
EN 55035:2017+A11:2020 CISPR 35:2016 BS EN 55035:2017+A11:2020 IEC 61000-4-3:2020 EN IEC 61000-4-3:2020 BS EN IEC 61000-4-3-TC:2020	Radiated Immunity	Compliant	Level 2 at 3V/m from 80MHz-1000MHz with Performance Criteria A Level 2 at 3V/m in 1800MHz、2600MHz、 3500MHz and 5000MHz with Performance Criteria A	Attachment 6
EN 55035:2017+A11:2020 CISPR 35:2016 BS EN 55035:2017+A11:2020 IEC 61000-4-4:2012 EN 61000-4-4:2012 BS EN 61000-4-4:2012	EFT/Bursts Immunity	Compliant	Power Port: Level 2 at $\pm 1\text{kV}$ with Performance Criteria A Signal Port: Level 2 at $\pm 0.5\text{kV}$ with Performance Criteria B	Attachment 7
EN 55035:2017+A11:2020 CISPR 35:2016 BS EN 55035:2017+A11:2020 IEC 61000-4-5:2014/AMD1:2017 EN 61000-4-5:2014+A1:2017 BS EN 61000-4-5:2014+A1:2017	Surge Immunity	Compliant	Power Port: Common Mode(L-G): Level 3 at $\pm 2\text{kV}$ with Performance Criteria A Diff. Mode(L-L): Level 3 at $\pm 1\text{kV}$ with Performance Criteria A	Attachment 8
EN 55035:2017+A11:2020 CISPR 35:2016 BS EN 55035:2017+A11:2020 IEC 61000-4-6:2023 EN IEC 61000-4-6:2023 BS EN IEC 61000-4-6-TC:2023	Conducted Immunity	Compliant	Power Port and Signal Port: Level 2 at 3V(RMS) from 0.15MHz to 10MHz with Performance Criteria A Level X from 3V(RMS) to 1V(RMS) from 10MHz- 30MHz with Performance Criteria A Level 1 at 1V(RMS) from 30MHz-80MHz with Performance Criteria A	Attachment 9

(cont'd)

EN 55035:2017+A11:2020 CISPR 35:2016 BS EN 55035:2017+A11:2020 IEC 61000-4-8:2009 EN 61000-4-8:2010 BS EN 61000-4-8:2010	Power Frequency Magnetic Field	Compliant	Level 1 at 1A/m 50Hz power frequency with Performance Criteria A	Attachment 10
EN 55035:2017+A11:2020 CISPR 35:2016 BS EN 55035:2017+A11:2020 IEC 61000-4-11:2020/COR1:2020/ COR2:2022 EN IEC 61000-4-11:2020/ AC:2020-10 BS EN IEC 61000-4-11:2020	Voltage Dips, Short interruption	Compliant	The EUT meets test requirements. Refer to attachment 11 for details.	Attachment 11



TECHNICAL REVIEWED: Jeff. T. Chan
Jeff.T.Chan

QUALITY REVIEWED: Richard Chien
Richard Chien

APPROVED: Vincent Chia
Vincent Chia/Lab Manager

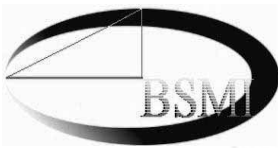
TEST LOCATION

MITAC EMC Laboratory
No.200, Wen Hwa 2nd Rd., Guishan Dist., Taoyuan City 33383, Taiwan

ACCREDITATION BODIES



In compliance with the FCC requirement is through BSMI multilateral MRA (Mutual Recognition Arrangement). MITAC EMC Lab has been accredited as a Conformity Assessment Body (CAB).
Designation Number: TW-1080



In compliance with the site registration requirements from BSMI according to ISO/IEC 17025.
Site reference No.SL2-IN-E-0063



Registered in accordance with Japanese VCCI Regulations and member No.1433
Conduction Emission Registration No: C-11173
Radiation Emission Registration No: R-11114 & G-10021
Telecommunication Ports Conducted Emission Interference Measurement Registration No.:
T-11551



In compliance with the Council of Chinese National Laboratory Accreditation accredited. Lab accreditation No.3021

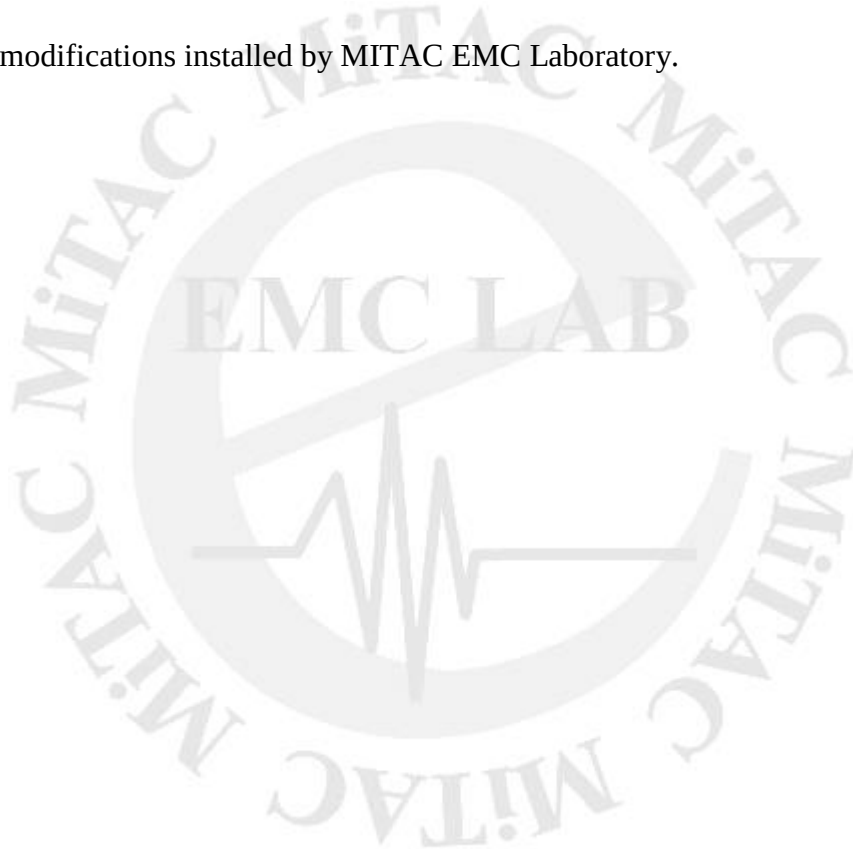
EUT EXERCISE SOFTWARE

The EUT exercise program ” BurnIn test Version 9.0 、 Iperf Version 2.0.5” were used to test during compliance testing. The program contained in a hard disk, and was loaded under”Windows 10 64bit”. Once loaded, the test engineer selected each connected support device, then the program exercises each connected support device in turn, data is transmitted to them during testing.

EQUIPMENT MODIFICATION

Any modifications installed previous to testing by MITAC DIGITAL TECHNOLOGY CORP. will be incorporated in each production model sold or leased in European Union.

There were no modifications installed by MITAC EMC Laboratory.

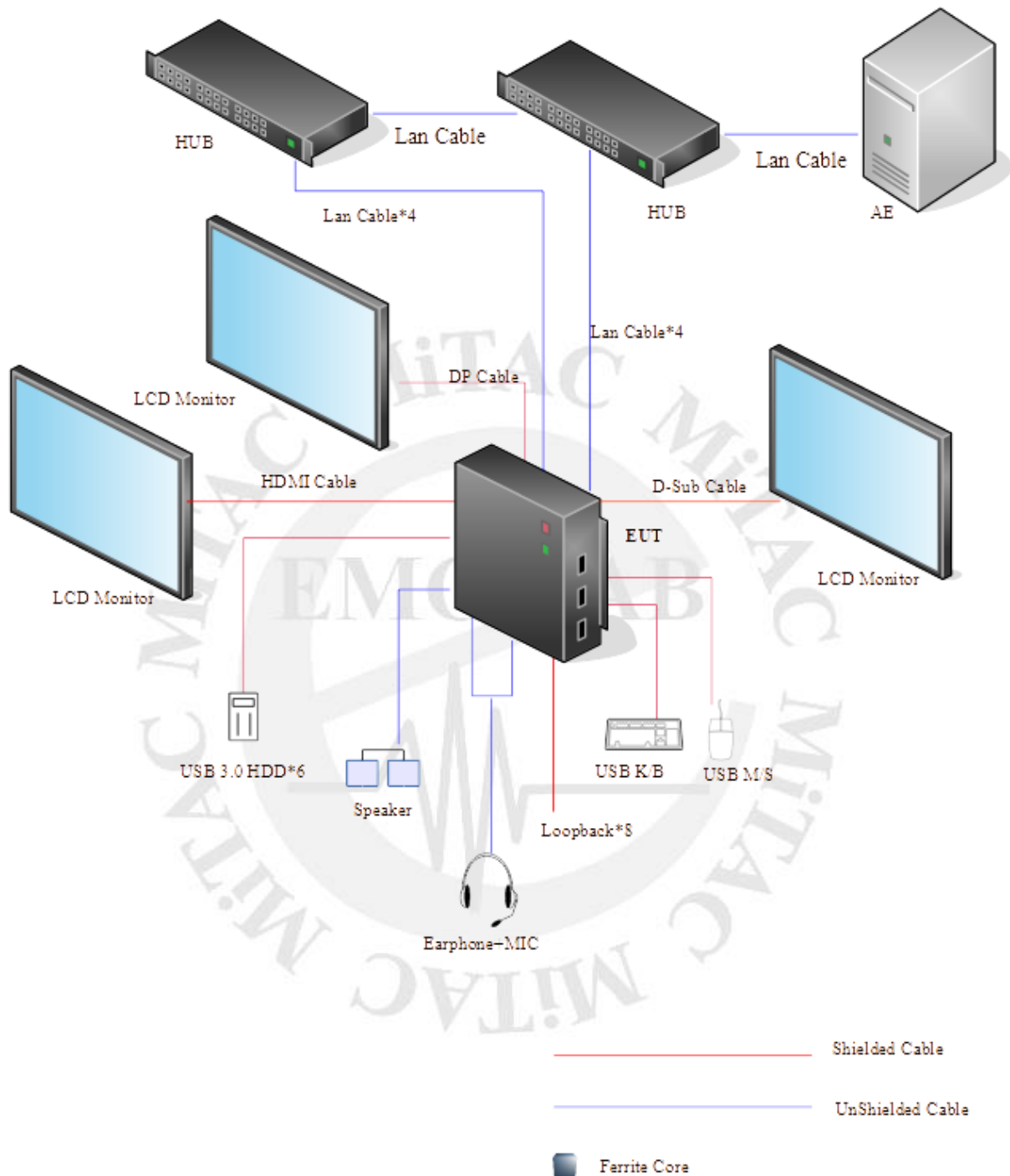


DESCRIPTION OF PERIPHERAL DEVICES AND CABLE CONNECTION

Peripheral Device		
Description	Model Number	Manufacture
AE	OptiPlex 3020	Dell Inc.
27" LCD Monitor*2 (RE and CE Used)	P2715Qt	Dell Inc.
24" LCD Monitor*2 (Harmonic 、Flicker and EMS Used)	P2415Qb	Dell Inc.
27" LCD Monitor	2707WFPc	Dell Inc.
USB Keyboard	KB216t	Dell Inc.
USB Mouse	MS116p	Dell Inc.
USB HDD*6 (RE and CE Used)	My Passport Ultra	WD
USB HDD*6 (Harmonic 、Flicker and EMS Used)	My Book 3.0	WD
MIC+Earphone	---	TS-star
HUB*2	XS508M	NETGEAR
Speaker	401508-001	Compaq

Cable Connection					
From	To	Length (Meters)	Shielded (Y/N)	Ferrite Loaded (Y/N)	Type
EUT	LCD Monitor	1.8	Y	N	HDMI Cable*1
EUT	LCD Monitor	1.8	Y	N	DP Cable*1
EUT	LCD Monitor	1.8	Y	N	D-Sub Cable*1
EUT	USB K/B	1.8	Y	N	USB Cable*1
EUT	USB M/S	1.8	Y	N	USB Cable*1
EUT	USB HDD	1.2	Y	N	USB Cable*6
EUT	MIC+Earphone	1.8	N	N	Audio Cable*1
EUT	Loopback	2.5	Y	N	S IO Cable*8
EUT	Speaker	1.7	N	N	Audio Cable*1
EUT	HUB	RE: 30 Others:3	N	N	UTP Cable*4
EUT	HUB	RE: 30 Others:3	N	N	UTP Cable*4
HUB	HUB	3	N	N	UTP Cable*1
HUB	AE	3	N	N	UTP Cable *1

CONNECTION DIAGRAM OF EUT



Remark:

1. The AE was placed in outside of 10M chamber during the radiated emission test.
2. The speaker will be removed during the test but exclude conducted susceptibility test.

ATTACHMENT 1 - CONDUCTED EMISSION TEST RESULTS

- **Test Reference:** EN 55032 、 CISPR 32 and BS EN 55032
- **Test Procedure:**
The EUT is set up according to the guideline of EN 55032 、 CISPR 32 and BS EN 55032 for conducted emissions. The measurement using an AMN on each line and an EMI receiver peak scan is made at the frequency measurement range. The six highest significant peaks are then marked, and these signals are then quasi-peaked and averaged. The frequency range investigated is from 150kHz to 30MHz.

The basic equation with a sample calculation is as follows:

Corr.Data = Raw Data + LISN/ISN Loss (or AMN/AAN Loss) + Cable Loss

Corr.Data = Field Strength

Raw Data = Receiver Amplitude

LISN/ISN Loss = LISN/ISN Factor

AMN/AAN Loss = AMN/AAN Factor

Cable Loss = Cable Loss

*All cables those are considered part of the EUT shall be arrange on GRP above non-conductive support detail as Annex D of EN 55032

*EUTs that display video images or EUTs with ports that are used to provide video signals shall be exercised in accordance with Table B.1 and B.2 requirements of CISPR 32.

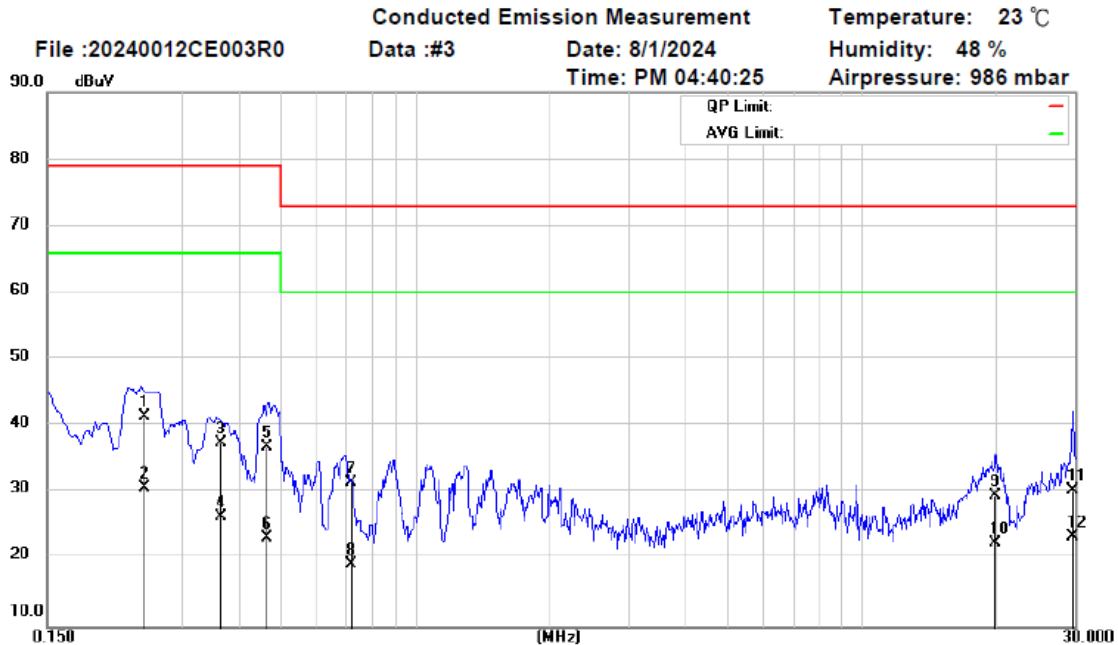
- **Test Result:** The EUT meets the Class A device requirement.
- **Change or Modification:** There is no modification installed by MITAC EMC Laboratory test personnel.
- **Test Raw Data:** Following pages are detailed testing contents
- **Test Equipment:**

Test Equipment	Manufacturer/ Model	Serial No.	Last Calibration Date	Due Date
EMI Receiver	ROHDE&SCHWARZ /ESR	102549	2024/5/29	2025/5/28
AMN	ROHDE&SCHWARZ /ENV216	101331	2024/5/30	2025/5/29
Cable	EMC400-BNCM- BNCM-6000	140304	2023/8/30	2024/8/29



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Address: No.200,Wenhua 2nd Rd.,Guishan Dist.,Taoyuan,Taiwan.

Operator: ABEL KAO



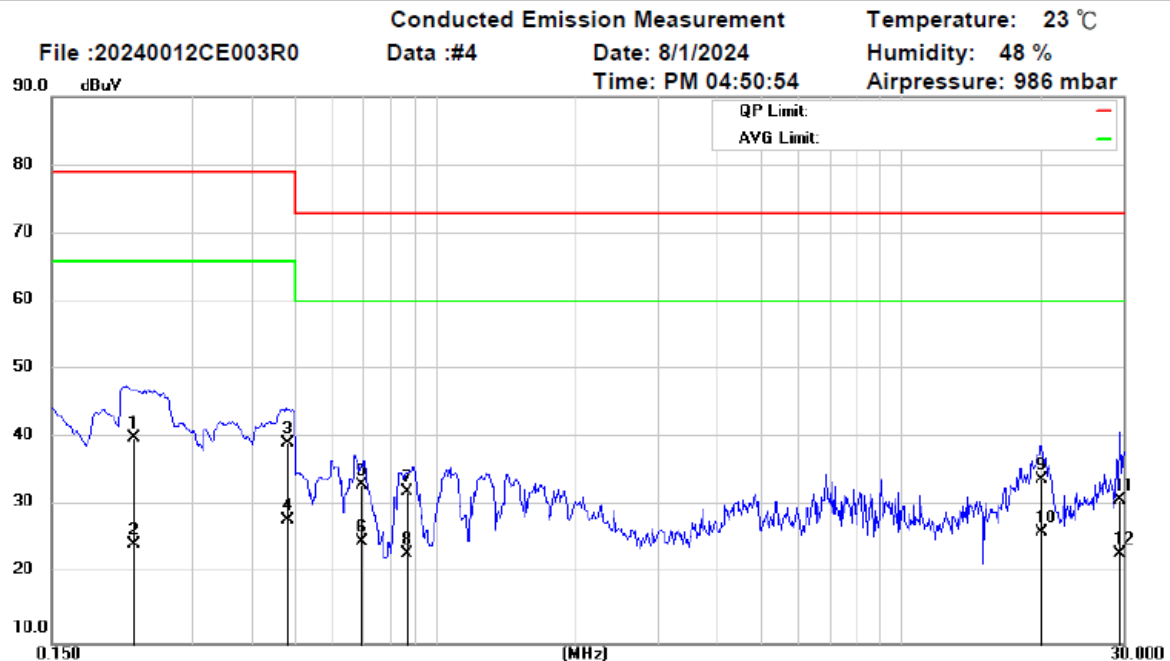
Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.2462	31.89	9.56	0.04	41.49	79.00	-37.51	QP	
*	0.2462	21.20	9.56	0.04	30.80	66.00	-35.20	AVG	
	0.3654	27.99	9.56	0.06	37.61	79.00	-41.39	QP	
	0.3654	16.97	9.56	0.06	26.59	66.00	-39.41	AVG	
	0.4624	27.31	9.56	0.06	36.93	79.00	-42.07	QP	
	0.4624	13.74	9.56	0.06	23.36	66.00	-42.64	AVG	
	0.7130	21.93	9.57	0.07	31.57	73.00	-41.43	QP	
	0.7130	9.69	9.57	0.07	19.33	60.00	-40.67	AVG	
	19.8101	19.56	9.72	0.36	29.64	73.00	-43.36	QP	
	19.8101	12.53	9.72	0.36	22.61	60.00	-37.39	AVG	
	29.6148	19.97	10.09	0.44	30.50	73.00	-42.50	QP	
	29.6148	13.07	10.09	0.44	23.60	60.00	-36.40	AVG	

Spectrum Analyzer: ESR
Receiver: ESR_1
AMN/AAN ENV216-331
Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin
RBW: 9 KHz
VBW: 30 KHz

File :20240012CE003R0\Data :#3

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Site : Conduction Emission

Limit : (AMN)CISPR32 class A_QP

Phase: N

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : BurnInTest V9.0

Comments: Full system.Mode1

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.2237	30.64	9.54	0.04	40.22	79.00	-38.78	QP	
	0.2237	15.00	9.54	0.04	24.58	66.00	-41.42	AVG	
	0.4792	29.76	9.53	0.06	39.35	79.00	-39.65	QP	
	0.4792	18.42	9.53	0.06	28.01	66.00	-37.99	AVG	
	0.6910	23.54	9.53	0.07	33.14	73.00	-39.86	QP	
	0.6910	15.32	9.53	0.07	24.92	60.00	-35.08	AVG	
	0.8674	22.63	9.54	0.08	32.25	73.00	-40.75	QP	
	0.8674	13.50	9.54	0.08	23.12	60.00	-36.88	AVG	
	20.0408	23.86	9.83	0.36	34.05	73.00	-38.95	QP	
*	20.0408	16.16	9.83	0.36	26.35	60.00	-33.65	AVG	
	29.4814	20.45	10.21	0.44	31.10	73.00	-41.90	QP	
	29.4814	12.55	10.21	0.44	23.20	60.00	-36.80	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN ENV216-331

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

File : 20240012CE003R0\Data : #4

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Test Report No.:20240012CAR0A

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- **Test Reference:** EN 55032 、 CISPR 32 and BS EN 55032

- **Test Procedure:**

The EUT is set up according to the guideline of EN 55032 、 CISPR 32 and BS EN 55032 for conducted emissions. The measurement is using an AAN on each line and an EMI receiver peak scan is made at the frequency measurement range. In order to make reliable emission measurements representative of high LAN utilization it is only necessary to create a condition of LAN utilization in excess of 10% and sustain that level for a minimum of 250ms. The six highest significant peaks are then marked, and these signals are then quasi-peaked and averaged. The frequency range investigated is from 150kHz to 30MHz.

The basic equation with a sample calculation is as follows:

Corr.Data = Raw Data + LISN/ISN Loss (or AMN/AAN Loss) + Cable Loss

Corr.Data = Field Strength

Raw Data = Receiver Amplitude

LISN/ISN Loss = LISN/ISN Factor

AMN/AAN Loss = AMN/AAN Factor

Cable Loss = Cable Loss

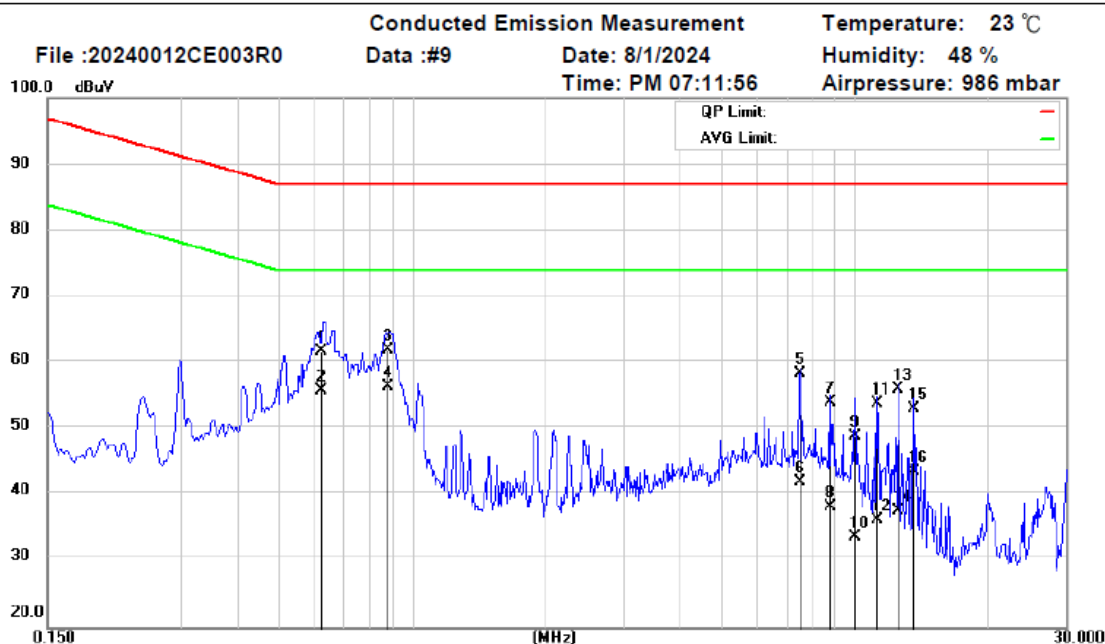
*All cables those are considered part of the EUT shall be arrange on GRP above non-conductive support detail as Annex D of EN 55032

- **Cable Type:** The Cat5e and Cat6A cables were used for 10/100/1000Mbps and 10Mbps/100Mbps/1000Mbps/2.5Gbps from EUT to AAN.
- **Name of Analogue/digital data port:**I226-LM Port 1~4 、 I210_MS-04LAN-R10 Port 1~4
- **Test Result:** The EUT meets the Class A device requirement.
- **Change or Modification:**There is no modification installed by MITAC EMC Laboratory test personnel.
- **Test Raw Data:**Following pages are detailed testing contents

● **Test Equipment:**

Test Equipment	Manufacturer/ Model	Serial No.	Last Calibration Date	Due Date
EMI Receiver	ROHDE&SCHWARZ/ ESR	102549	2024/5/29	2025/5/28
AAN	TESEQ/ISN T800	36193	2023/9/7	2024/9/6
AAN	TESEQ/ ISN T8-Cat6	53576	2024/6/6	2025/6/5
Cable	EMC400-BNCM- BNCM-6000	140304	2023/8/30	2024/8/29





Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : lperf

Comments: Full system.Mode1,I226-LM Port1_10Mbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.6180	52.11	9.64	0.07	61.82	87.00	-25.18	QP	
	0.6180	46.22	9.64	0.07	55.93	74.00	-18.07	AVG	
	0.8793	52.40	9.59	0.08	62.07	87.00	-24.93	QP	
*	0.8793	46.82	9.59	0.08	56.49	74.00	-17.51	AVG	
	7.5000	48.74	9.47	0.22	58.43	87.00	-28.57	QP	
	7.5000	32.24	9.47	0.22	41.93	74.00	-32.07	AVG	
	8.7498	44.39	9.47	0.24	54.10	87.00	-32.90	QP	
	8.7498	28.52	9.47	0.24	38.23	74.00	-35.77	AVG	
	10.0006	39.24	9.47	0.25	48.96	87.00	-38.04	QP	
	10.0006	24.04	9.47	0.25	33.76	74.00	-40.24	AVG	
	11.2500	44.19	9.48	0.27	53.94	87.00	-33.06	QP	
	11.2500	26.47	9.48	0.27	36.22	74.00	-37.78	AVG	
	12.5000	46.36	9.48	0.28	56.12	87.00	-30.88	QP	
	12.5000	27.84	9.48	0.28	37.60	74.00	-36.40	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN T8 Cat6 53576

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : Iperf

Comments: Full system.Mode1,I226-LM Port1_10Mbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	13.5616	43.35	9.48	0.29	53.12	87.00	-33.88	QP	
	13.5616	33.77	9.48	0.29	43.54	74.00	-30.46	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN T8 Cat6 53576

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

File :20240012CE003R0\Data :#9

Page: 2

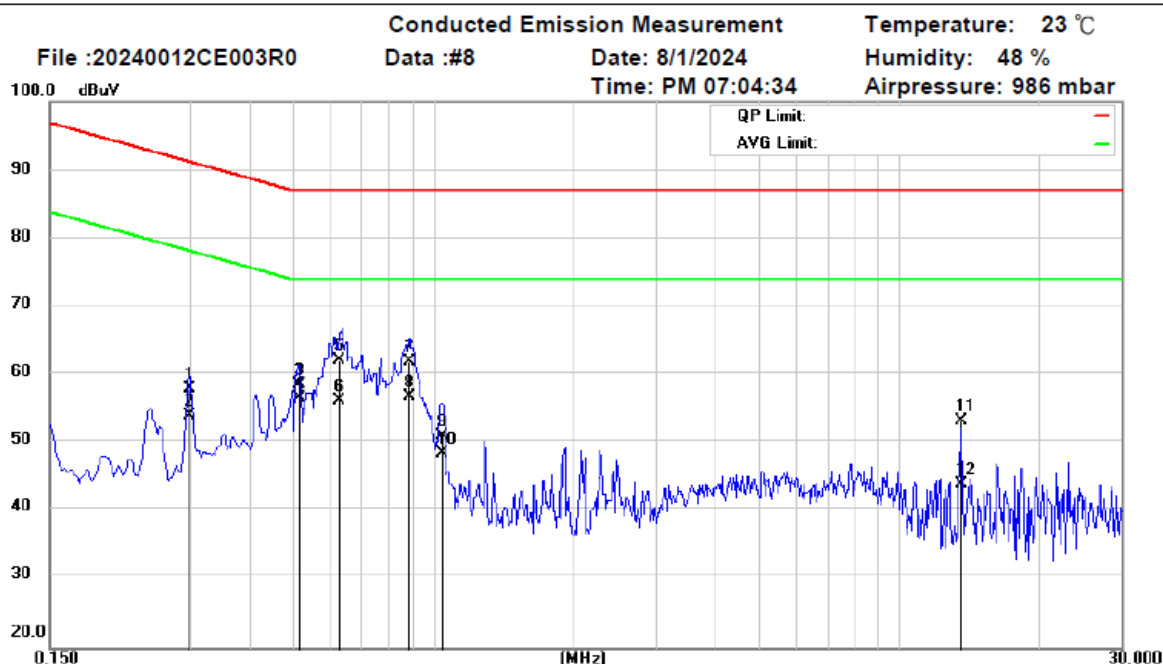
Test Report No.:20240012CAR0A

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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : lperf

Comments: Full system.Mode1,I226-LM Port1_100Mbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.2983	48.20	9.81	0.05	58.06	91.29	-33.23	QP	
	0.2983	44.19	9.81	0.05	54.05	78.29	-24.24	AVG	
	0.5135	48.84	9.66	0.06	58.56	87.00	-28.44	QP	
	0.5135	46.86	9.66	0.06	56.58	74.00	-17.42	AVG	
	0.6260	52.45	9.64	0.07	62.16	87.00	-24.84	QP	
	0.6260	46.54	9.64	0.07	56.25	74.00	-17.75	AVG	
	0.8836	52.38	9.59	0.08	62.05	87.00	-24.95	QP	
*	0.8836	47.08	9.59	0.08	56.75	74.00	-17.25	AVG	
	1.0400	41.44	9.57	0.08	51.09	87.00	-35.91	QP	
	1.0400	38.96	9.57	0.08	48.61	74.00	-25.39	AVG	
	13.5616	43.50	9.48	0.29	53.27	87.00	-33.73	QP	
	13.5616	34.17	9.48	0.29	43.94	74.00	-30.06	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN T8 Cat6 53576

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

File :20240012CE003R0\Data :#8

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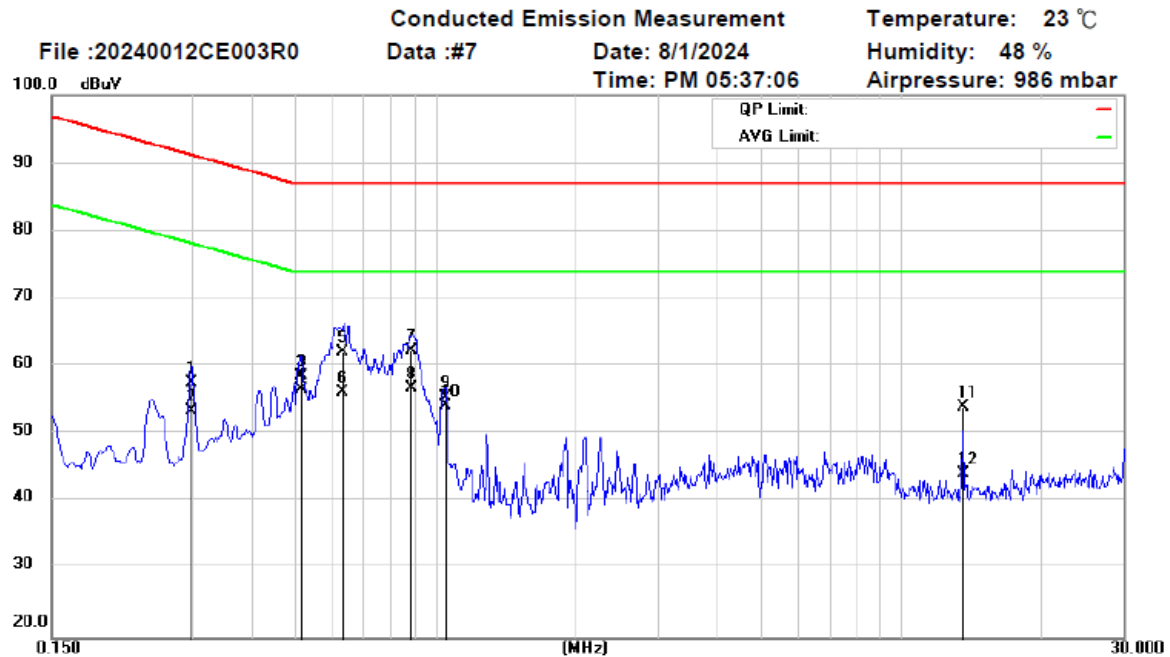
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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : Iperf

Comments: Full system.Mode1,I226-LM Port1_1Gbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.2973	47.78	9.82	0.05	57.65	91.32	-33.67	QP	
	0.2973	43.71	9.82	0.05	53.58	78.32	-24.74	AVG	
	0.5135	48.83	9.66	0.06	58.55	87.00	-28.45	QP	
	0.5135	46.83	9.66	0.06	56.55	74.00	-17.45	AVG	
	0.6286	52.49	9.64	0.07	62.20	87.00	-24.80	QP	
	0.6286	46.57	9.64	0.07	56.28	74.00	-17.72	AVG	
	0.8847	52.64	9.59	0.08	62.31	87.00	-24.69	QP	
*	0.8847	47.17	9.59	0.08	56.84	74.00	-17.16	AVG	
	1.0444	45.86	9.57	0.08	55.51	87.00	-31.49	QP	
	1.0444	44.69	9.57	0.08	54.34	74.00	-19.66	AVG	
	13.5616	44.29	9.48	0.29	54.06	87.00	-32.94	QP	
	13.5616	34.44	9.48	0.29	44.21	74.00	-29.79	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN T8 Cat6 53576

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

File :20240012CE003R0\Data :#7

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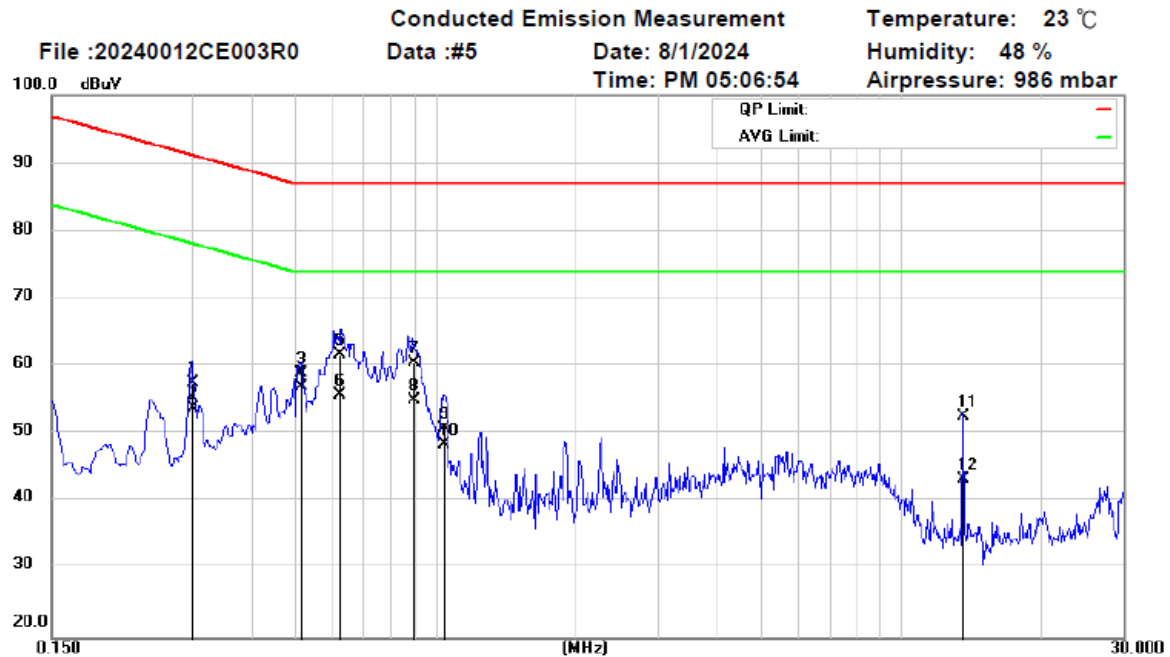
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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : Iperf

Comments: Full system.Mode1,I226-LM Port1_2.5Gbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.2990	47.78	9.81	0.05	57.64	91.27	-33.63	QP	
	0.2990	43.94	9.81	0.05	53.80	78.27	-24.47	AVG	
	0.5135	49.24	9.66	0.06	58.96	87.00	-28.04	QP	
*	0.5135	47.35	9.66	0.06	57.07	74.00	-16.93	AVG	
	0.6198	52.08	9.64	0.07	61.79	87.00	-25.21	QP	
	0.6198	46.19	9.64	0.07	55.90	74.00	-18.10	AVG	
	0.8972	51.02	9.59	0.08	60.69	87.00	-26.31	QP	
	0.8972	45.46	9.59	0.08	55.13	74.00	-18.87	AVG	
	1.0400	41.31	9.57	0.08	50.96	87.00	-36.04	QP	
	1.0400	38.90	9.57	0.08	48.55	74.00	-25.45	AVG	
	13.5614	42.86	9.48	0.29	52.63	87.00	-34.37	QP	
	13.5614	33.71	9.48	0.29	43.48	74.00	-30.52	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN T8 Cat6 53576

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

File :20240012CE003R0\Data :#5

Page: 1

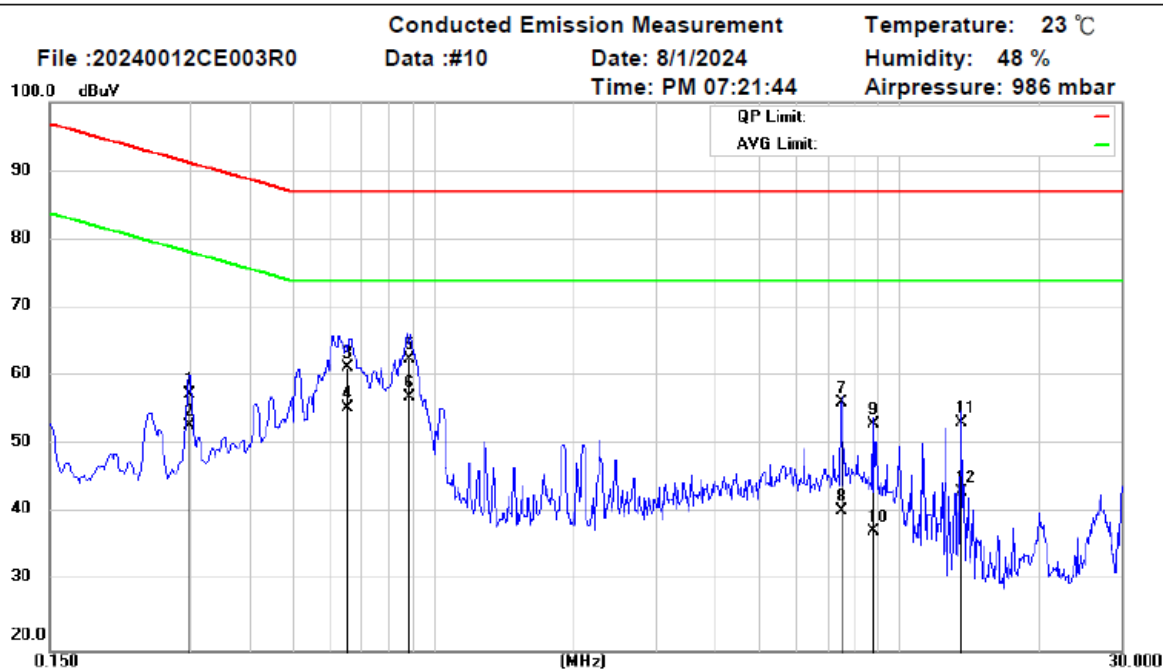
Test Report No.:20240012CAR0A

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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : lperf

Comments: Full system.Mode1,I226-LM Port2_10Mbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.2985	47.51	9.81	0.05	57.37	91.28	-33.91	QP	
	0.2985	43.05	9.81	0.05	52.91	78.28	-25.37	AVG	
	0.6493	51.66	9.63	0.07	61.36	87.00	-25.64	QP	
	0.6493	45.75	9.63	0.07	55.45	74.00	-18.55	AVG	
	0.8824	52.83	9.59	0.08	62.50	87.00	-24.50	QP	
*	0.8824	47.31	9.59	0.08	56.98	74.00	-17.02	AVG	
	7.4998	46.54	9.47	0.22	56.23	87.00	-30.77	QP	
	7.4998	30.71	9.47	0.22	40.40	74.00	-33.60	AVG	
	8.7500	43.32	9.47	0.24	53.03	87.00	-33.97	QP	
	8.7500	27.82	9.47	0.24	37.53	74.00	-36.47	AVG	
	13.5614	43.50	9.48	0.29	53.27	87.00	-33.73	QP	
	13.5614	33.35	9.48	0.29	43.12	74.00	-30.88	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN T8 Cat6 53576

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

File :20240012CE003R0\Data :#10

Page: 1

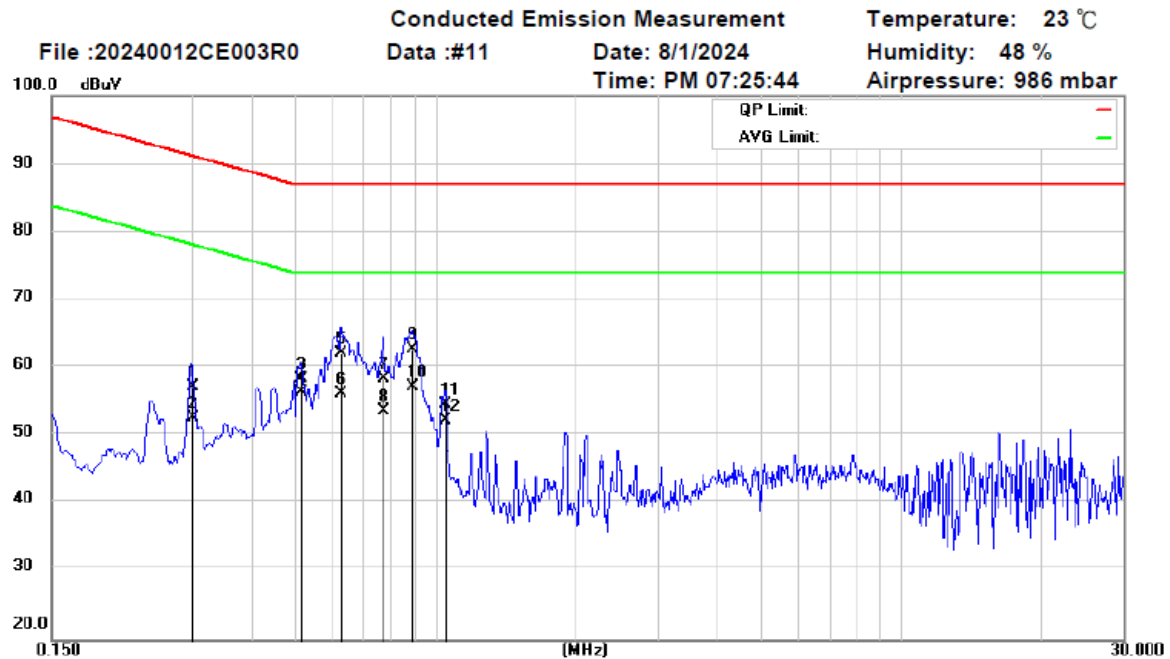
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Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.2988	47.31	9.81	0.05	57.17	91.28	-34.11	QP	
	0.2988	42.85	9.81	0.05	52.71	78.28	-25.57	AVG	
	0.5135	48.75	9.66	0.06	58.47	87.00	-28.53	QP	
	0.5135	46.69	9.66	0.06	56.41	74.00	-17.59	AVG	
	0.6262	52.43	9.64	0.07	62.14	87.00	-24.86	QP	
	0.6262	46.63	9.64	0.07	56.34	74.00	-17.66	AVG	
	0.7700	48.72	9.61	0.07	58.40	87.00	-28.60	QP	
	0.7700	44.05	9.61	0.07	53.73	74.00	-20.27	AVG	
	0.8925	53.02	9.59	0.08	62.69	87.00	-24.31	QP	
*	0.8925	47.65	9.59	0.08	57.32	74.00	-16.68	AVG	
	1.0444	45.05	9.57	0.08	54.70	87.00	-32.30	QP	
	1.0444	42.58	9.57	0.08	52.23	74.00	-21.77	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN T8 Cat6 53576

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

File :20240012CE003R0\Data :#11

Page: 1

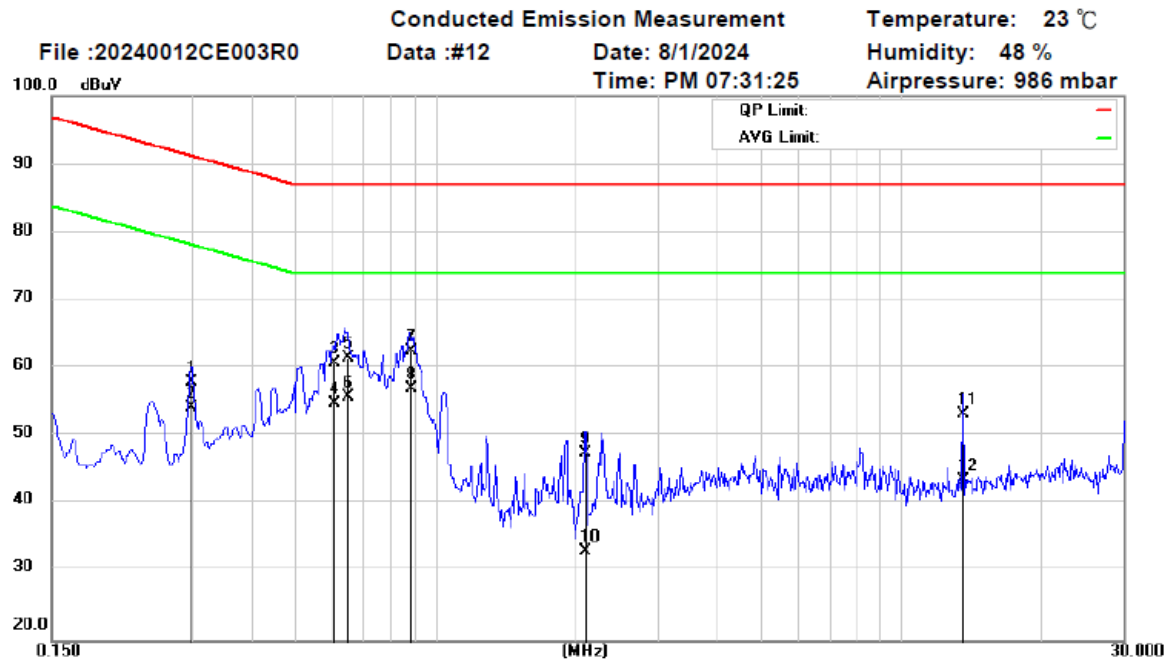
Test Report No.:20240012CAR0A

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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : lperf

Comments: Full system.Mode1,I226-LM Port2_1Gbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.2985	48.12	9.81	0.05	57.98	91.28	-33.30	QP	
	0.2985	44.37	9.81	0.05	54.23	78.28	-24.05	AVG	
	0.6056	51.10	9.64	0.07	60.81	87.00	-26.19	QP	
	0.6056	45.07	9.64	0.07	54.78	74.00	-19.22	AVG	
	0.6440	51.97	9.63	0.07	61.67	87.00	-25.33	QP	
	0.6440	46.12	9.63	0.07	55.82	74.00	-18.18	AVG	
	0.8816	52.93	9.59	0.08	62.60	87.00	-24.40	QP	
*	0.8816	47.41	9.59	0.08	57.08	74.00	-16.92	AVG	
	2.0911	37.99	9.52	0.12	47.63	87.00	-39.37	QP	
	2.0911	23.47	9.52	0.12	33.11	74.00	-40.89	AVG	
	13.5614	43.48	9.48	0.29	53.25	87.00	-33.75	QP	
	13.5614	33.84	9.48	0.29	43.61	74.00	-30.39	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN T8 Cat6 53576

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

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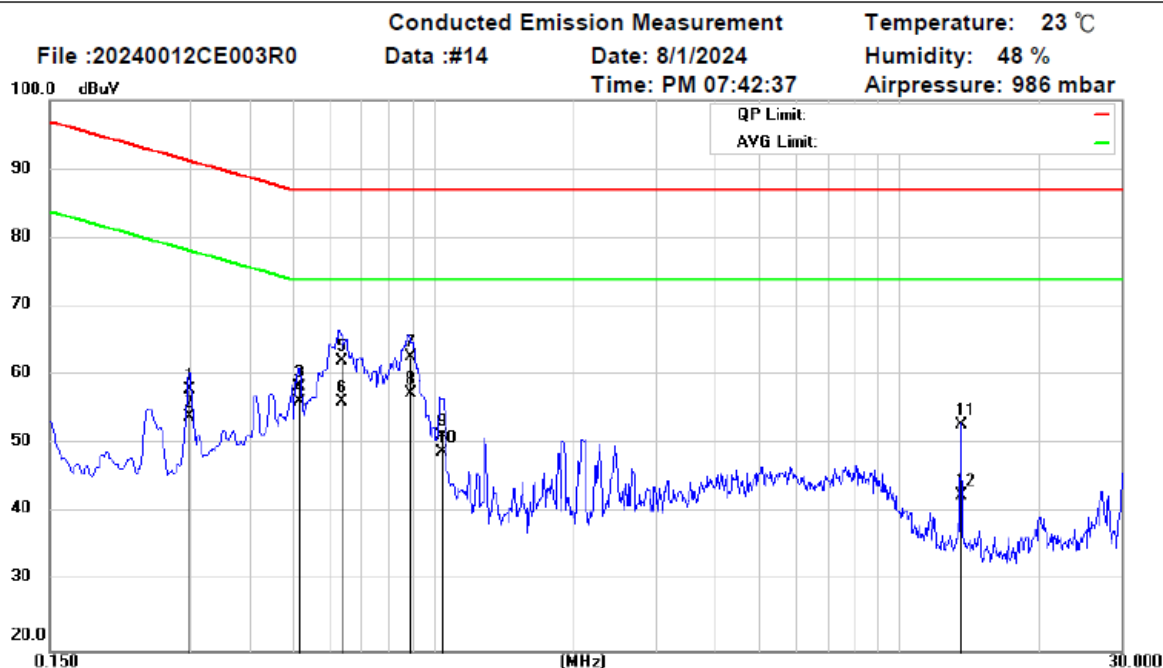
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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : Iperf

Comments: Full system.Mode1,I226-LM Port2_2.5Gbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.2975	48.14	9.82	0.05	58.01	91.31	-33.30	QP	
	0.2975	44.26	9.82	0.05	54.13	78.31	-24.18	AVG	
	0.5135	48.66	9.66	0.06	58.38	87.00	-28.62	QP	
	0.5135	46.58	9.66	0.06	56.30	74.00	-17.70	AVG	
	0.6332	52.50	9.64	0.07	62.21	87.00	-24.79	QP	
	0.6332	46.59	9.64	0.07	56.30	74.00	-17.70	AVG	
	0.8920	53.15	9.59	0.08	62.82	87.00	-24.18	QP	
*	0.8920	47.78	9.59	0.08	57.45	74.00	-16.55	AVG	
	1.0400	41.73	9.57	0.08	51.38	87.00	-35.62	QP	
	1.0400	39.26	9.57	0.08	48.91	74.00	-25.09	AVG	
	13.5616	43.17	9.48	0.29	52.94	87.00	-34.06	QP	
	13.5616	32.80	9.48	0.29	42.57	74.00	-31.43	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN T8 Cat6 53576

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

File :20240012CE003R0\Data :#14

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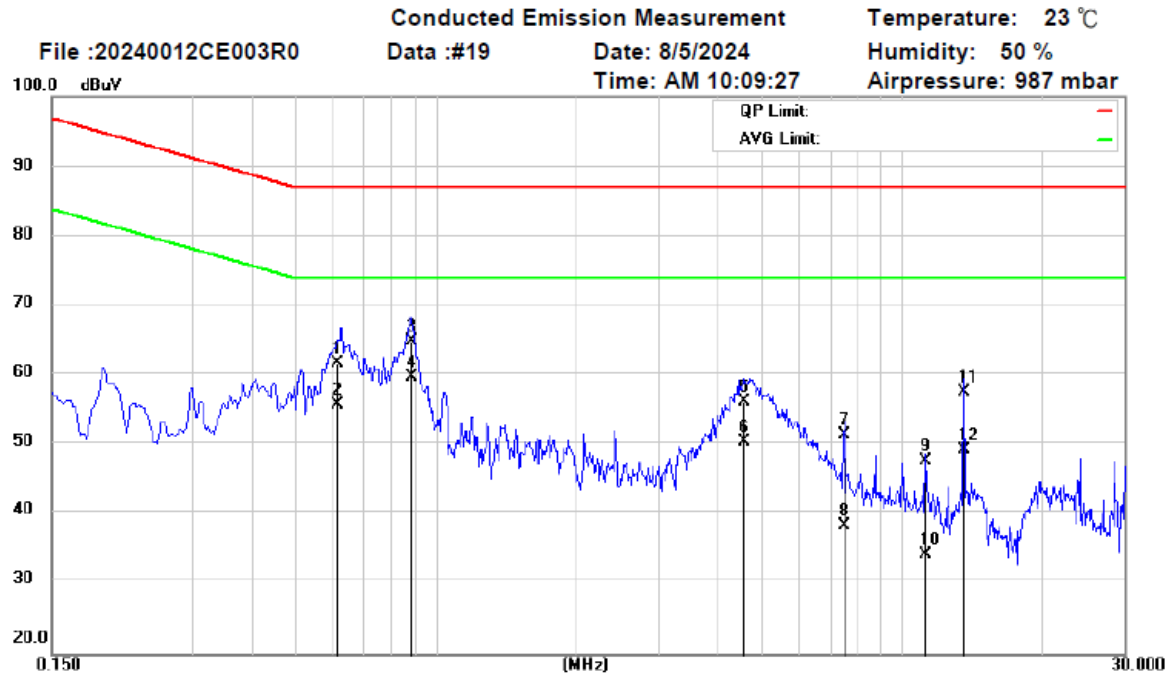
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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : lperf

Comments: Full system.Mode1,I226-LM Port3_10Mbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.6114	52.00	9.64	0.07	61.71	87.00	-25.29	QP	
	0.6114	46.15	9.64	0.07	55.86	74.00	-18.14	AVG	
	0.8821	55.26	9.59	0.08	64.93	87.00	-22.07	QP	
*	0.8821	50.10	9.59	0.08	59.77	74.00	-14.23	AVG	
	4.5866	46.50	9.48	0.19	56.17	87.00	-30.83	QP	
	4.5866	40.89	9.48	0.19	50.56	74.00	-23.44	AVG	
	7.4998	41.80	9.47	0.22	51.49	87.00	-35.51	QP	
	7.4998	28.70	9.47	0.22	38.39	74.00	-35.61	AVG	
	11.2504	38.00	9.48	0.27	47.75	87.00	-39.25	QP	
	11.2504	24.61	9.48	0.27	34.36	74.00	-39.64	AVG	
	13.5616	47.84	9.48	0.29	57.61	87.00	-29.39	QP	
	13.5616	39.48	9.48	0.29	49.25	74.00	-24.75	AVG	

Spectrum Analyzer: ESR

*:Maximum data x:Over limit !:over margin

Receiver: ESR_1

RBW: 9 KHz

AMN/AAN T8 Cat6 53576

VBW: 30 KHz

Cable: EMC400 B140304

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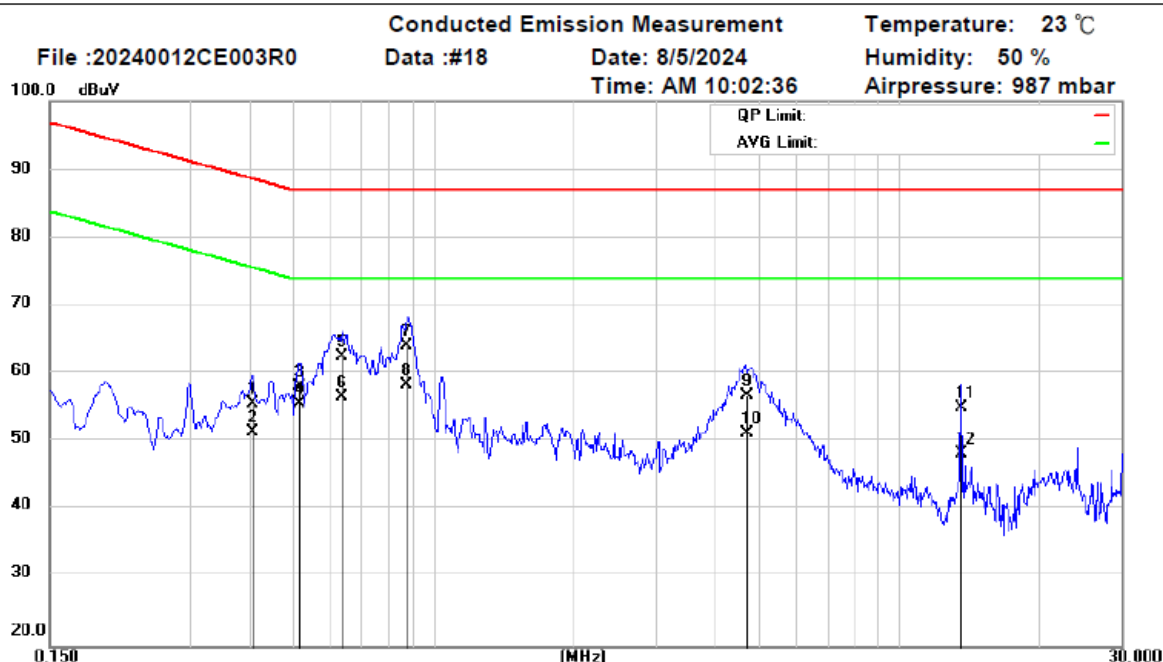
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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : lperf

Comments: Full system.Mode1,I226-LM Port3_100Mbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.4065	45.80	9.73	0.06	55.59	88.72	-33.13	QP	
	0.4065	41.66	9.73	0.06	51.45	75.72	-24.27	AVG	
	0.5134	48.59	9.66	0.06	58.31	87.00	-28.69	QP	
	0.5134	45.86	9.66	0.06	55.58	74.00	-18.42	AVG	
	0.6312	52.86	9.64	0.07	62.57	87.00	-24.43	QP	
	0.6312	46.95	9.64	0.07	56.66	74.00	-17.34	AVG	
	0.8718	54.38	9.59	0.08	64.05	87.00	-22.95	QP	
*	0.8718	48.83	9.59	0.08	58.50	74.00	-15.50	AVG	
	4.6826	47.23	9.48	0.19	56.90	87.00	-30.10	QP	
	4.6826	41.60	9.48	0.19	51.27	74.00	-22.73	AVG	
	13.5616	45.24	9.48	0.29	55.01	87.00	-31.99	QP	
	13.5616	38.53	9.48	0.29	48.30	74.00	-25.70	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN T8 Cat6 53576

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

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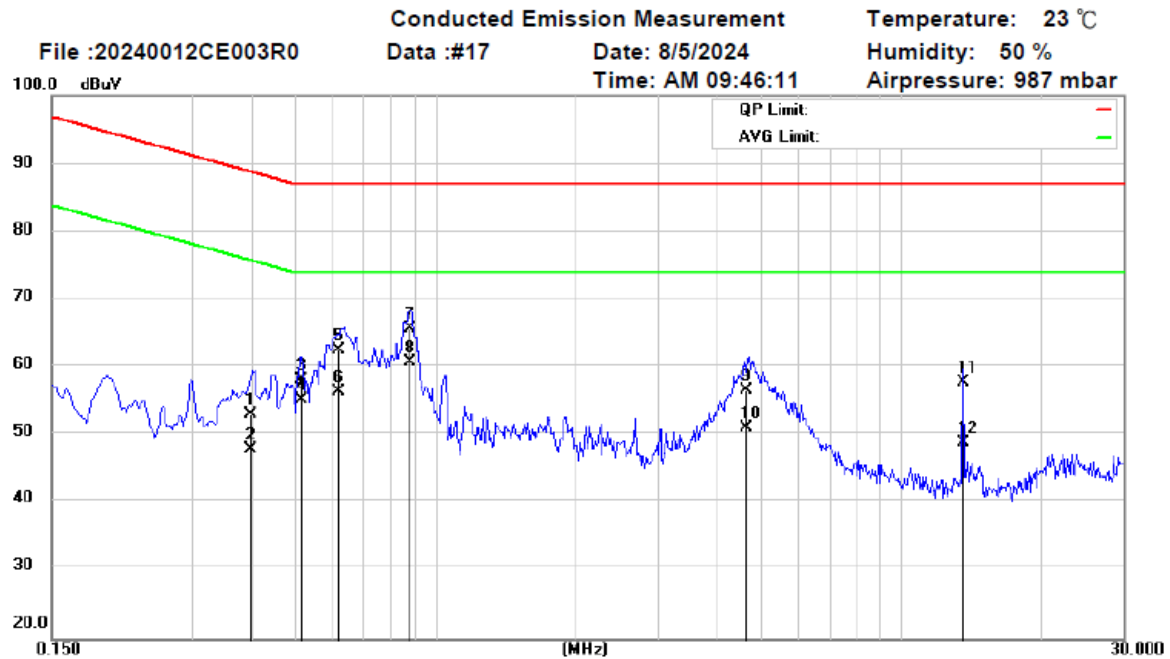
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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : Iperf

Comments: Full system.Mode1,I226-LM Port3_1Gbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.3980	43.22	9.74	0.06	53.02	88.90	-35.88	QP	
	0.3980	38.16	9.74	0.06	47.96	75.90	-27.94	AVG	
	0.5134	48.42	9.66	0.06	58.14	87.00	-28.86	QP	
	0.5134	45.61	9.66	0.06	55.33	74.00	-18.67	AVG	
	0.6165	52.76	9.64	0.07	62.47	87.00	-24.53	QP	
	0.6165	46.81	9.64	0.07	56.52	74.00	-17.48	AVG	
	0.8780	56.13	9.59	0.08	65.80	87.00	-21.20	QP	
*	0.8780	51.05	9.59	0.08	60.72	74.00	-13.28	AVG	
	4.6244	47.01	9.48	0.19	56.68	87.00	-30.32	QP	
	4.6244	41.43	9.48	0.19	51.10	74.00	-22.90	AVG	
	13.5616	48.03	9.48	0.29	57.80	87.00	-29.20	QP	
	13.5616	39.12	9.48	0.29	48.89	74.00	-25.11	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN T8 Cat6 53576

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

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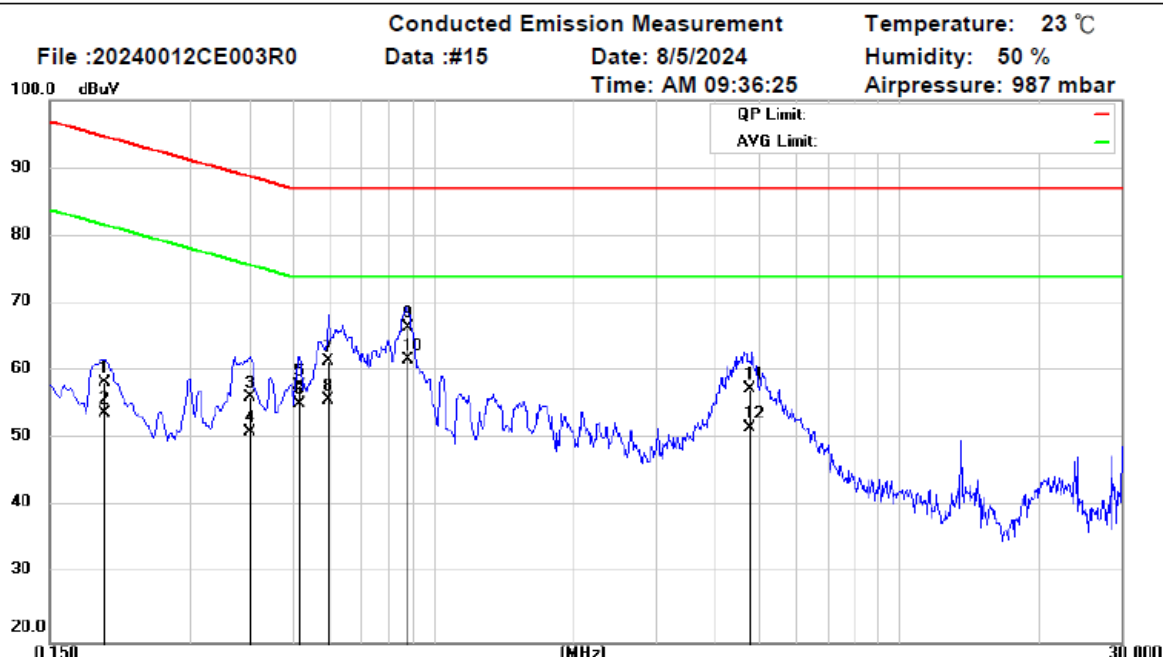
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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : Iperf

Comments: Full system.Mode1,I226-LM Port3_2.5Gbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.1961	48.46	9.9	0.04	58.40	94.77	-36.37	QP	
	0.1961	43.98	9.9	0.04	53.92	81.77	-27.85	AVG	
	0.4003	46.54	9.74	0.06	56.34	88.85	-32.51	QP	
	0.4003	41.30	9.74	0.06	51.10	75.85	-24.75	AVG	
	0.5135	48.30	9.66	0.06	58.02	87.00	-28.98	QP	
	0.5135	45.53	9.66	0.06	55.25	74.00	-18.75	AVG	
	0.5945	51.88	9.64	0.07	61.59	87.00	-25.41	QP	
	0.5945	46.17	9.64	0.07	55.88	74.00	-18.12	AVG	
	0.8782	56.88	9.59	0.08	66.55	87.00	-20.45	QP	
*	0.8782	52.09	9.59	0.08	61.76	74.00	-12.24	AVG	
	4.7602	47.83	9.47	0.19	57.49	87.00	-29.51	QP	
	4.7602	41.98	9.47	0.19	51.64	74.00	-22.36	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN T8 Cat6 53576

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

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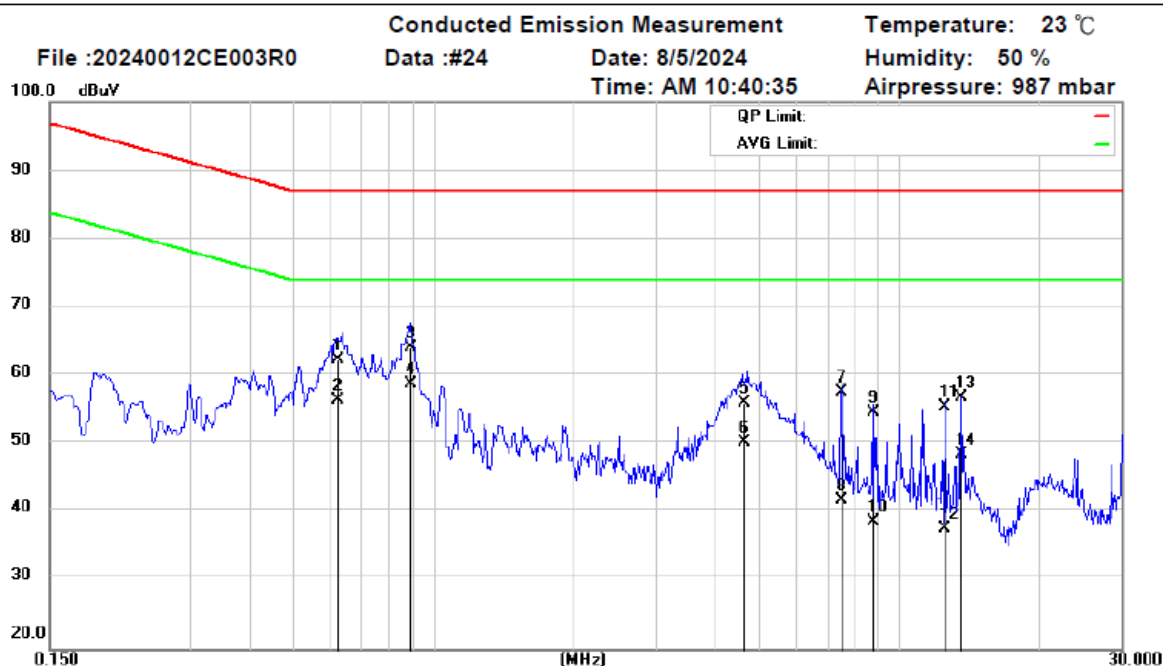
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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : lperf

Comments: Full system.Mode1,I226-LM Port4_10Mbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.6192	52.67	9.64	0.07	62.38	87.00	-24.62	QP	
	0.6192	46.78	9.64	0.07	56.49	74.00	-17.51	AVG	
	0.8913	54.40	9.59	0.08	64.07	87.00	-22.93	QP	
*	0.8913	49.15	9.59	0.08	58.82	74.00	-15.18	AVG	
	4.6354	46.40	9.48	0.19	56.07	87.00	-30.93	QP	
	4.6354	40.71	9.48	0.19	50.38	74.00	-23.62	AVG	
	7.5000	47.86	9.47	0.22	57.55	87.00	-29.45	QP	
	7.5000	32.19	9.47	0.22	41.88	74.00	-32.12	AVG	
	8.7502	44.99	9.47	0.24	54.70	87.00	-32.30	QP	
	8.7502	29.04	9.47	0.24	38.75	74.00	-35.25	AVG	
	12.5000	45.62	9.48	0.28	55.38	87.00	-31.62	QP	
	12.5000	27.94	9.48	0.28	37.70	74.00	-36.30	AVG	
	13.5616	47.10	9.48	0.29	56.87	87.00	-30.13	QP	
	13.5616	38.77	9.48	0.29	48.54	74.00	-25.46	AVG	

Spectrum Analyzer: ESR

*:Maximum data x:Over limit !:over margin

Receiver: ESR_1

RBW: 9 KHz

AMN/AAN T8 Cat6 53576

VBW: 30 KHz

Cable: EMC400 B140304

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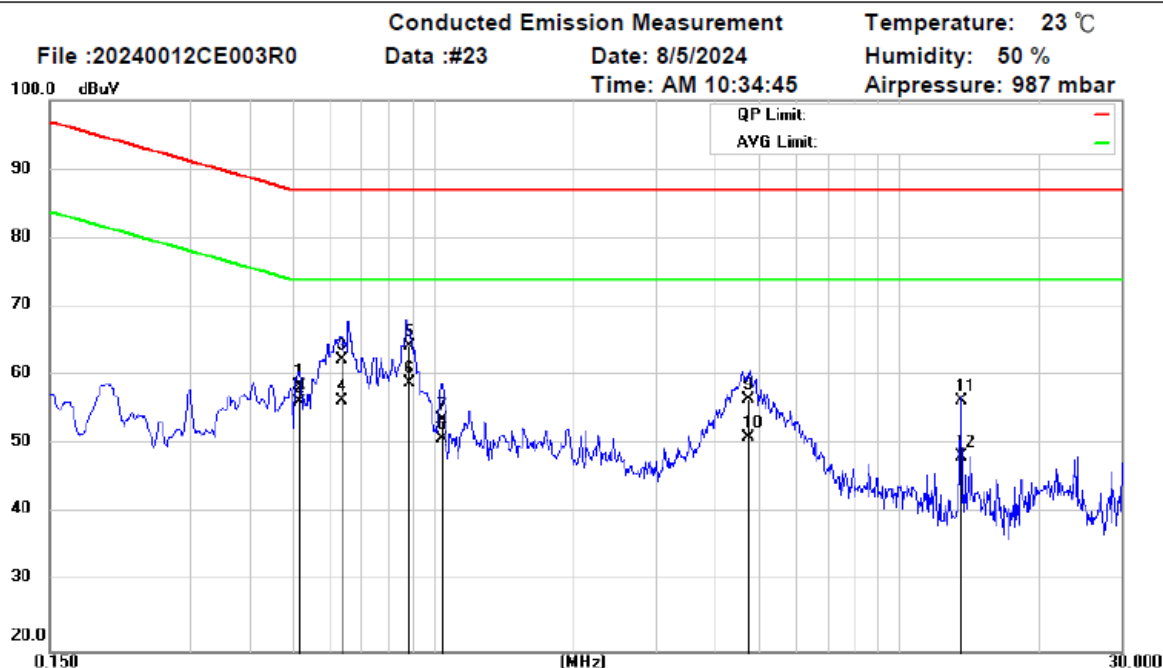
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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : lperf

Comments: Full system.Mode1,I226-LM Port4_100Mbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.5135	48.93	9.66	0.06	58.65	87.00	-28.35	QP	
	0.5135	46.44	9.66	0.06	56.16	74.00	-17.84	AVG	
	0.6318	52.70	9.64	0.07	62.41	87.00	-24.59	QP	
	0.6318	46.80	9.64	0.07	56.51	74.00	-17.49	AVG	
	0.8823	54.64	9.59	0.08	64.31	87.00	-22.69	QP	
*	0.8823	49.32	9.59	0.08	58.99	74.00	-15.01	AVG	
	1.0400	43.97	9.57	0.08	53.62	87.00	-33.38	QP	
	1.0400	41.35	9.57	0.08	51.00	74.00	-23.00	AVG	
	4.7423	47.00	9.47	0.19	56.66	87.00	-30.34	QP	
	4.7423	41.45	9.47	0.19	51.11	74.00	-22.89	AVG	
	13.5616	46.62	9.48	0.29	56.39	87.00	-30.61	QP	
	13.5616	38.57	9.48	0.29	48.34	74.00	-25.66	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN T8 Cat6 53576

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

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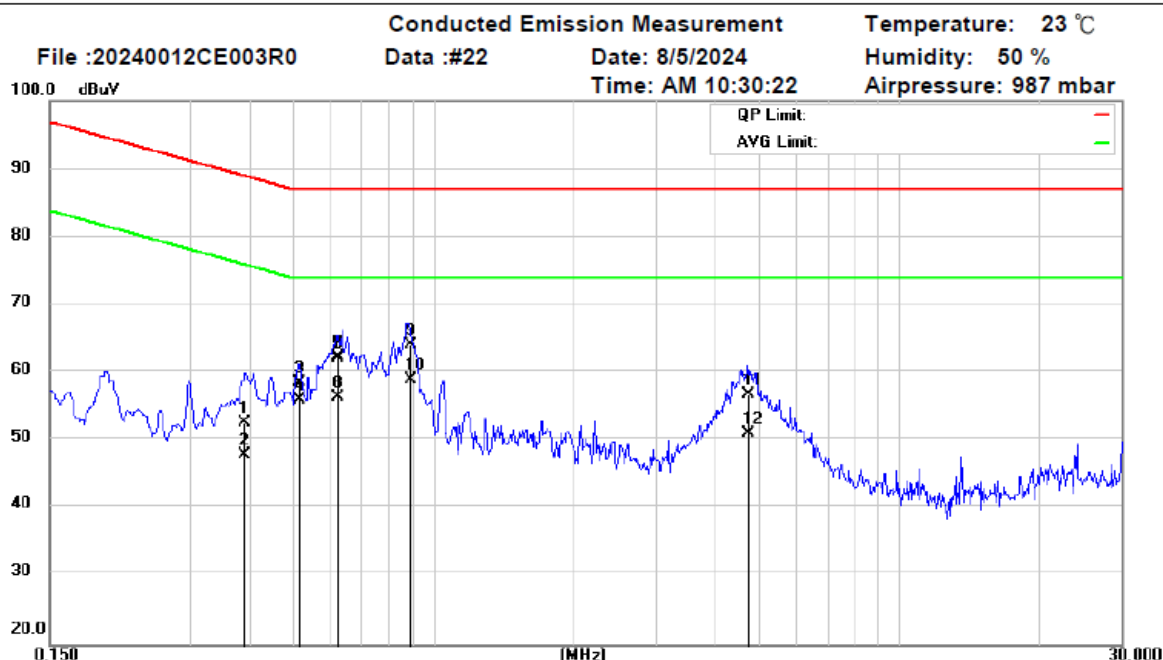
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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : lperf

Comments: Full system.Mode1,I226-LM Port4_1Gbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.3905	42.89	9.74	0.06	52.69	89.05	-36.36	QP	
	0.3905	38.20	9.74	0.06	48.00	76.05	-28.05	AVG	
	0.5135	48.85	9.66	0.06	58.57	87.00	-28.43	QP	
	0.5135	46.42	9.66	0.06	56.14	74.00	-17.86	AVG	
	0.6188	52.53	9.64	0.07	62.24	87.00	-24.76	QP	
	0.6188	46.70	9.64	0.07	56.41	74.00	-17.59	AVG	
	0.6218	52.65	9.64	0.07	62.36	87.00	-24.64	QP	
	0.6218	46.77	9.64	0.07	56.48	74.00	-17.52	AVG	
	0.8885	54.57	9.59	0.08	64.24	87.00	-22.76	QP	
*	0.8885	49.40	9.59	0.08	59.07	74.00	-14.93	AVG	
	4.7323	47.09	9.47	0.19	56.75	87.00	-30.25	QP	
	4.7323	41.52	9.47	0.19	51.18	74.00	-22.82	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN T8 Cat6 53576

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

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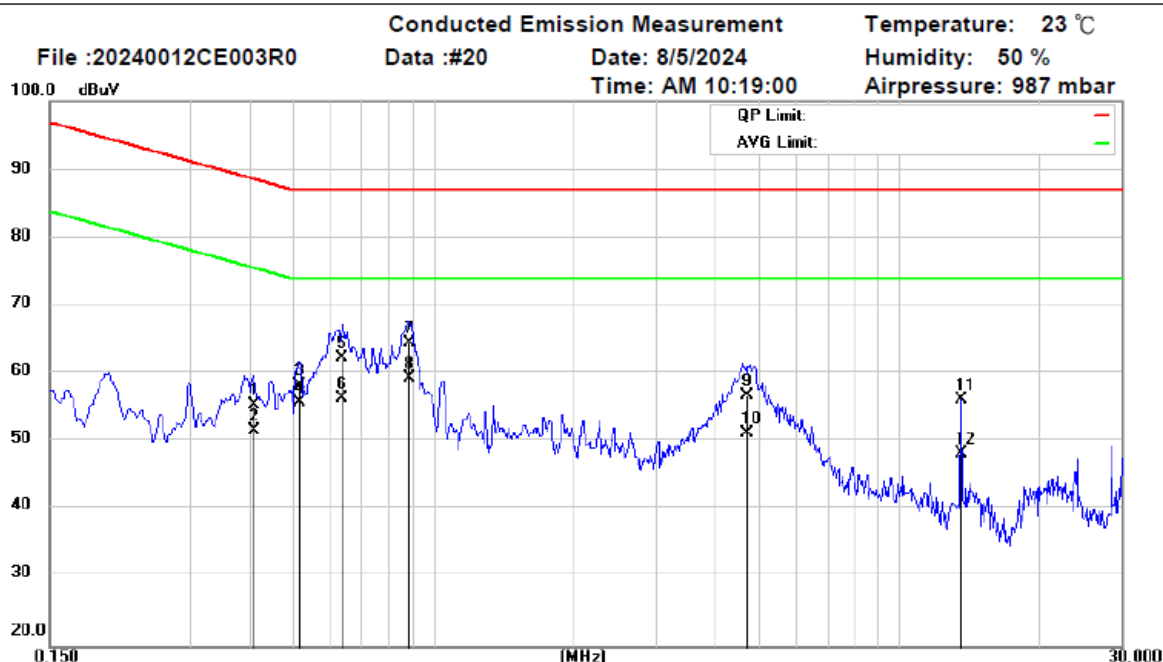
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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : lperf

Comments: Full system.Mode1,I226-LM Port4_2.5Gbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.4096	45.74	9.73	0.06	55.53	88.66	-33.13	QP	
	0.4096	41.87	9.73	0.06	51.66	75.66	-24.00	AVG	
	0.5134	48.70	9.66	0.06	58.42	87.00	-28.58	QP	
	0.5134	46.20	9.66	0.06	55.92	74.00	-18.08	AVG	
	0.6334	52.74	9.64	0.07	62.45	87.00	-24.55	QP	
	0.6334	46.81	9.64	0.07	56.52	74.00	-17.48	AVG	
	0.8830	54.88	9.59	0.08	64.55	87.00	-22.45	QP	
*	0.8830	49.72	9.59	0.08	59.39	74.00	-14.61	AVG	
	4.6910	47.20	9.48	0.19	56.87	87.00	-30.13	QP	
	4.6910	41.59	9.48	0.19	51.26	74.00	-22.74	AVG	
	13.5626	46.53	9.48	0.29	56.30	87.00	-30.70	QP	
	13.5626	38.58	9.48	0.29	48.35	74.00	-25.65	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN T8 Cat6 53576

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

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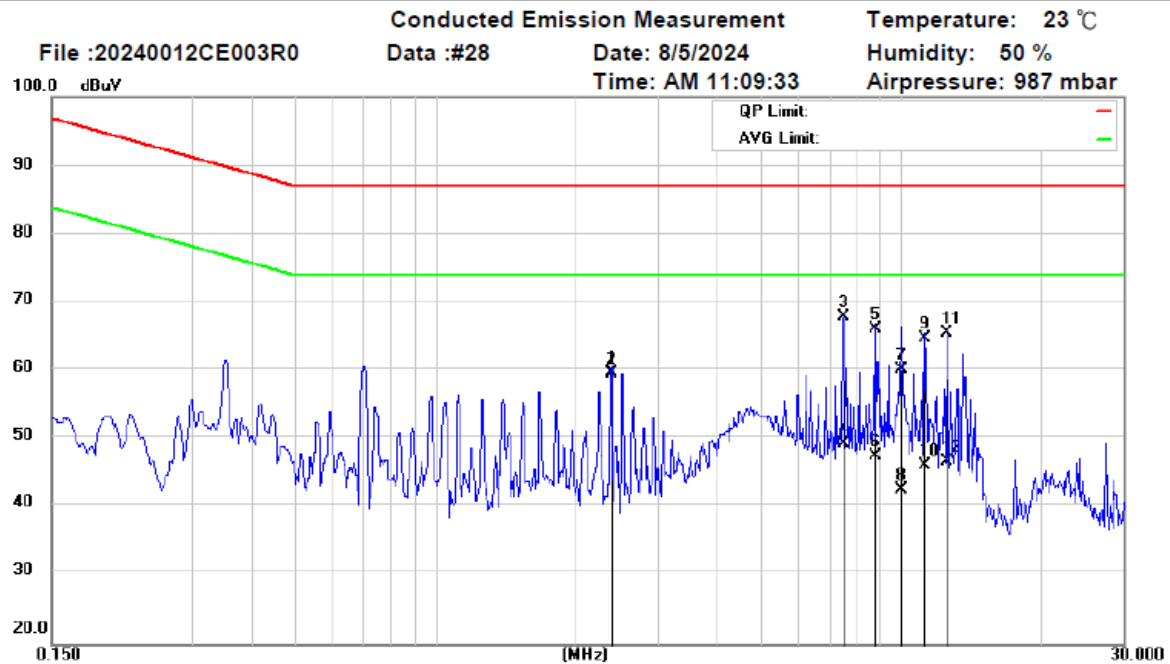
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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : lperf

Comments: Full system.Mode1,I210_MS-04LAN-R10_Port1_10Mbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	2.3761	50.09	9.58	0.13	59.80	87.00	-27.20	QP	
*	2.3761	49.85	9.58	0.13	59.56	74.00	-14.44	AVG	
	7.5000	58.06	9.55	0.22	67.83	87.00	-19.17	QP	
	7.5000	39.58	9.55	0.22	49.35	74.00	-24.65	AVG	
	8.7500	56.36	9.55	0.24	66.15	87.00	-20.85	QP	
	8.7500	37.80	9.55	0.24	47.59	74.00	-26.41	AVG	
	10.0000	50.44	9.55	0.25	60.24	87.00	-26.76	QP	
	10.0000	32.91	9.55	0.25	42.71	74.00	-31.29	AVG	
	11.2500	54.84	9.57	0.27	64.68	87.00	-22.32	QP	
	11.2500	36.43	9.57	0.27	46.27	74.00	-27.73	AVG	
	12.5000	55.63	9.59	0.28	65.50	87.00	-21.50	QP	
	12.5000	36.81	9.59	0.28	46.68	74.00	-27.32	AVG	

Spectrum Analyzer: ESR

*:Maximum data x:Over limit !:over margin

Receiver: ESR_1

RBW: 9 KHz

AMN/AAN TESEQ T800 Cat5

VBW: 30 KHz

Cable: EMC400 B140304

File :20240012CE003R0\Data :#28

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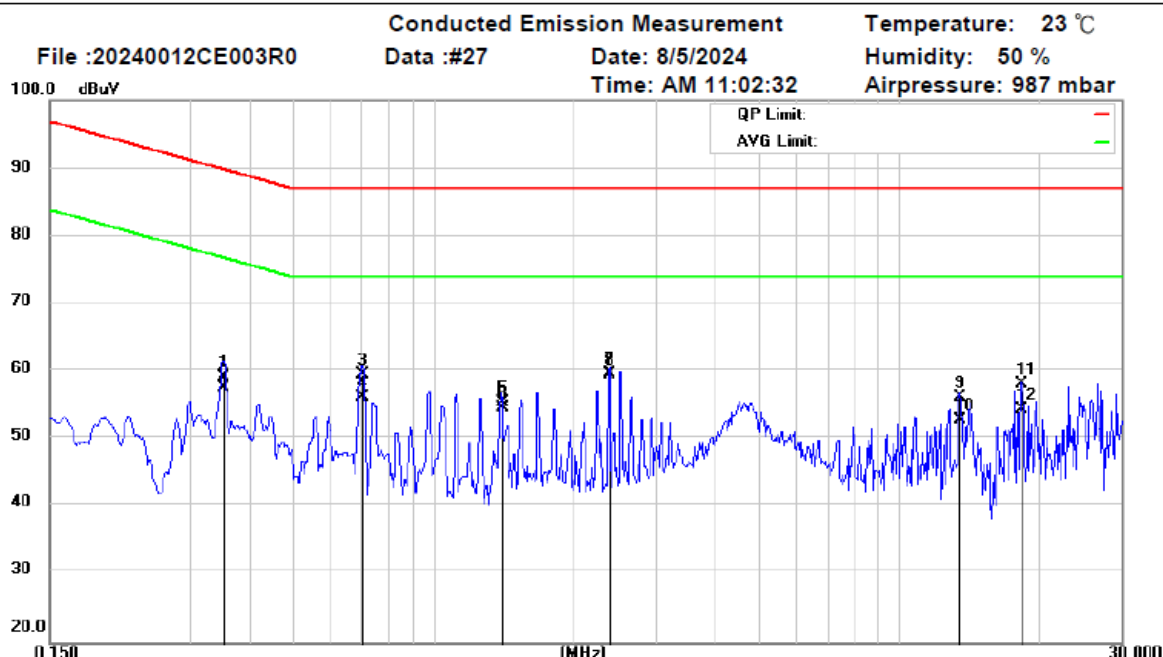
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No.200, Wen Hwa 2nd Rd., Guishan Dist., Taoyuan City 33383, Taiwan

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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : Iperf

Comments: Full system.Mode1,I210_MS-04LAN-R10_Port1_100Mbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.3530	49.39	9.83	0.06	59.28	89.89	-30.61	QP	
	0.3530	47.75	9.83	0.06	57.64	76.89	-19.25	AVG	
	0.7044	49.83	9.69	0.07	59.59	87.00	-27.41	QP	
	0.7044	46.43	9.69	0.07	56.19	74.00	-17.81	AVG	
	1.3975	45.80	9.62	0.1	55.52	87.00	-31.48	QP	
	1.3975	44.88	9.62	0.1	54.60	74.00	-19.40	AVG	
	2.3761	50.02	9.58	0.13	59.73	87.00	-27.27	QP	
*	2.3761	49.84	9.58	0.13	59.55	74.00	-14.45	AVG	
	13.4190	46.28	9.6	0.29	56.17	87.00	-30.83	QP	
	13.4190	42.97	9.6	0.29	52.86	74.00	-21.14	AVG	
	18.2434	48.13	9.67	0.34	58.14	87.00	-28.86	QP	
	18.2434	44.52	9.67	0.34	54.53	74.00	-19.47	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN TESEQ T800 Cat5

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

File :20240012CE003R0\Data :#27

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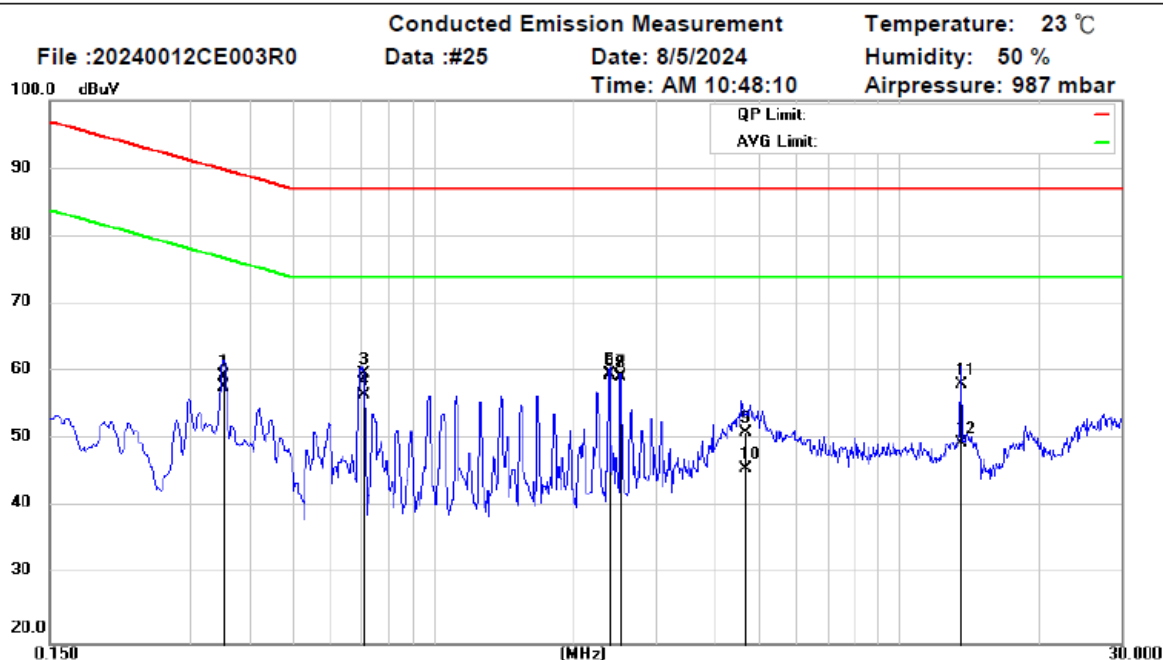
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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : Iperf

Comments: Full system.Mode1,I210_MS-04LAN-R10_Port1_1Gbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.3522	49.53	9.83	0.06	59.42	89.91	-30.49	QP	
	0.3522	47.92	9.83	0.06	57.81	76.91	-19.10	AVG	
	0.7047	50.06	9.69	0.07	59.82	87.00	-27.18	QP	
	0.7047	46.79	9.69	0.07	56.55	74.00	-17.45	AVG	
	2.3756	50.10	9.58	0.13	59.81	87.00	-27.19	QP	
*	2.3756	49.87	9.58	0.13	59.58	74.00	-14.42	AVG	
	2.5156	49.74	9.58	0.14	59.46	87.00	-27.54	QP	
	2.5156	49.50	9.58	0.14	59.22	74.00	-14.78	AVG	
	4.6592	41.45	9.55	0.19	51.19	87.00	-35.81	QP	
	4.6592	35.94	9.55	0.19	45.68	74.00	-28.32	AVG	
	13.5612	48.26	9.6	0.29	58.15	87.00	-28.85	QP	
	13.5612	39.73	9.6	0.29	49.62	74.00	-24.38	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN TESEQ T800 Cat5

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

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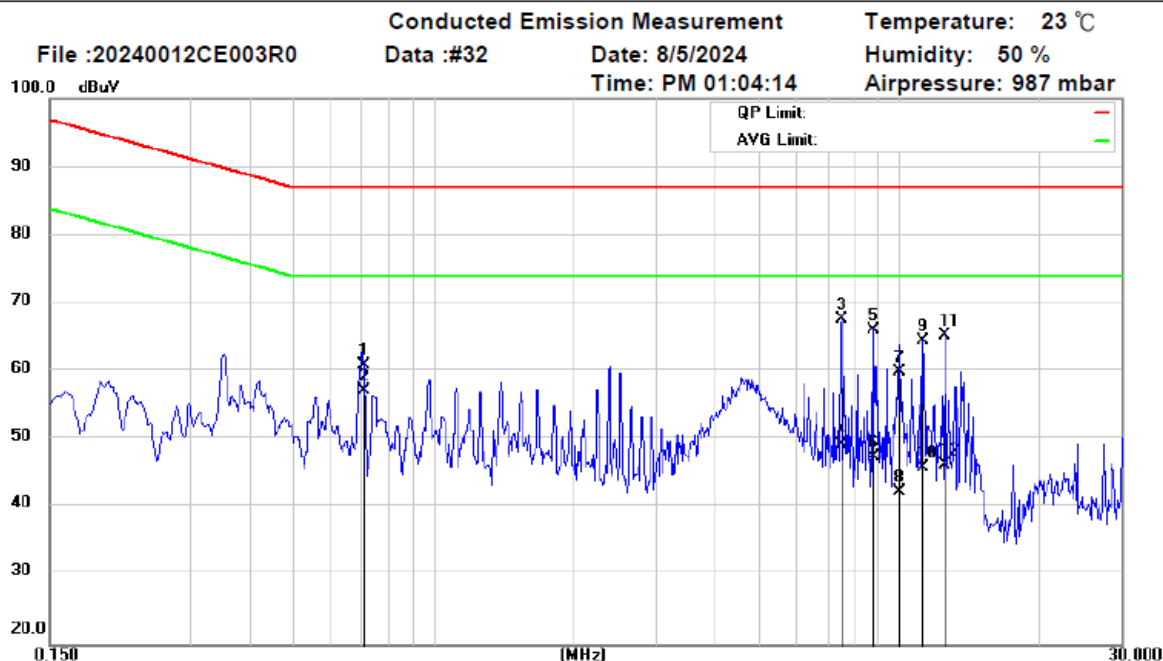
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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : lperf

Comments: Full system.Mode1,I210_MS-04LAN-R10_Port2_10Mbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.7050	51.19	9.69	0.07	60.95	87.00	-26.05	QP	
*	0.7050	47.39	9.69	0.07	57.15	74.00	-16.85	AVG	
	7.5000	57.92	9.55	0.22	67.69	87.00	-19.31	QP	
	7.5000	39.62	9.55	0.22	49.39	74.00	-24.61	AVG	
	8.7500	56.25	9.55	0.24	66.04	87.00	-20.96	QP	
	8.7500	37.73	9.55	0.24	47.52	74.00	-26.48	AVG	
	10.0000	50.25	9.55	0.25	60.05	87.00	-26.95	QP	
	10.0000	32.62	9.55	0.25	42.42	74.00	-31.58	AVG	
	11.2500	54.66	9.57	0.27	64.50	87.00	-22.50	QP	
	11.2500	36.18	9.57	0.27	46.02	74.00	-27.98	AVG	
	12.5000	55.42	9.59	0.28	65.29	87.00	-21.71	QP	
	12.5000	36.52	9.59	0.28	46.39	74.00	-27.61	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN TESEQ T800 Cat5

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

File :20240012CE003R0\Data :#32

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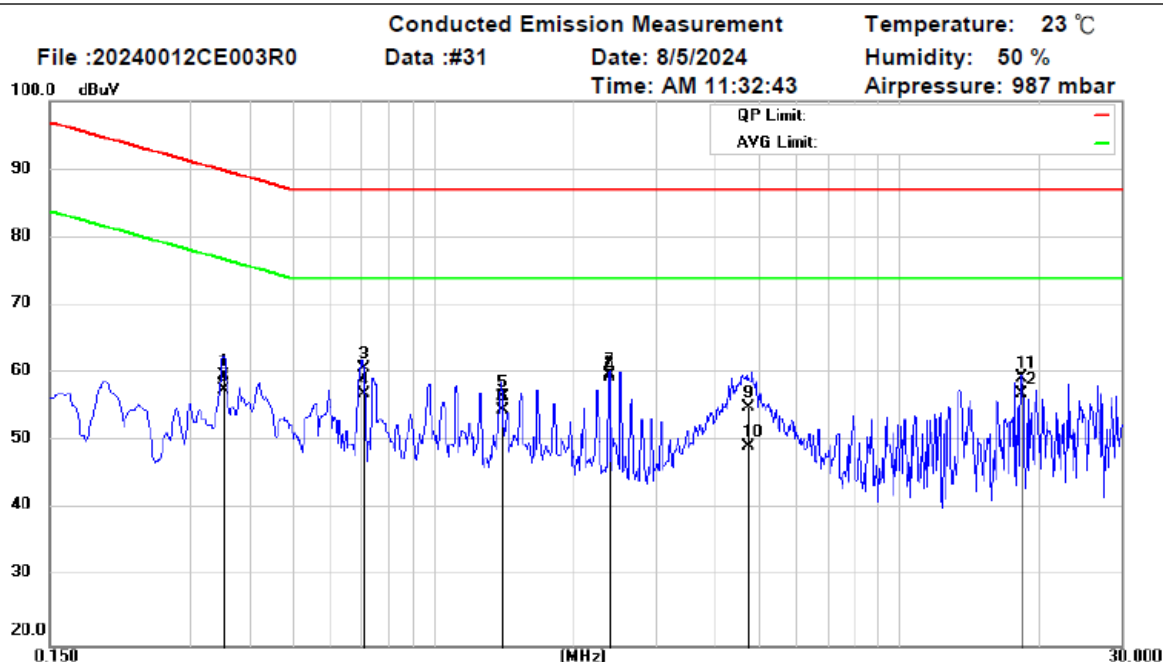
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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : lperf

Comments: Full system.Mode1,I210_MS-04LAN-R10_Port2_100Mbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.3531	49.97	9.83	0.06	59.86	89.89	-30.03	QP	
	0.3531	47.66	9.83	0.06	57.55	76.89	-19.34	AVG	
	0.7047	50.94	9.69	0.07	60.70	87.00	-26.30	QP	
	0.7047	47.18	9.69	0.07	56.94	74.00	-17.06	AVG	
	1.3981	46.93	9.62	0.1	56.65	87.00	-30.35	QP	
	1.3981	44.86	9.62	0.1	54.58	74.00	-19.42	AVG	
	2.3757	50.25	9.58	0.13	59.96	87.00	-27.04	QP	
*	2.3757	49.87	9.58	0.13	59.58	74.00	-14.42	AVG	
	4.7227	45.27	9.55	0.19	55.01	87.00	-31.99	QP	
	4.7227	39.53	9.55	0.19	49.27	74.00	-24.73	AVG	
	18.2432	49.40	9.67	0.34	59.41	87.00	-27.59	QP	
	18.2432	47.08	9.67	0.34	57.09	74.00	-16.91	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN TESEQ T800 Cat5

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

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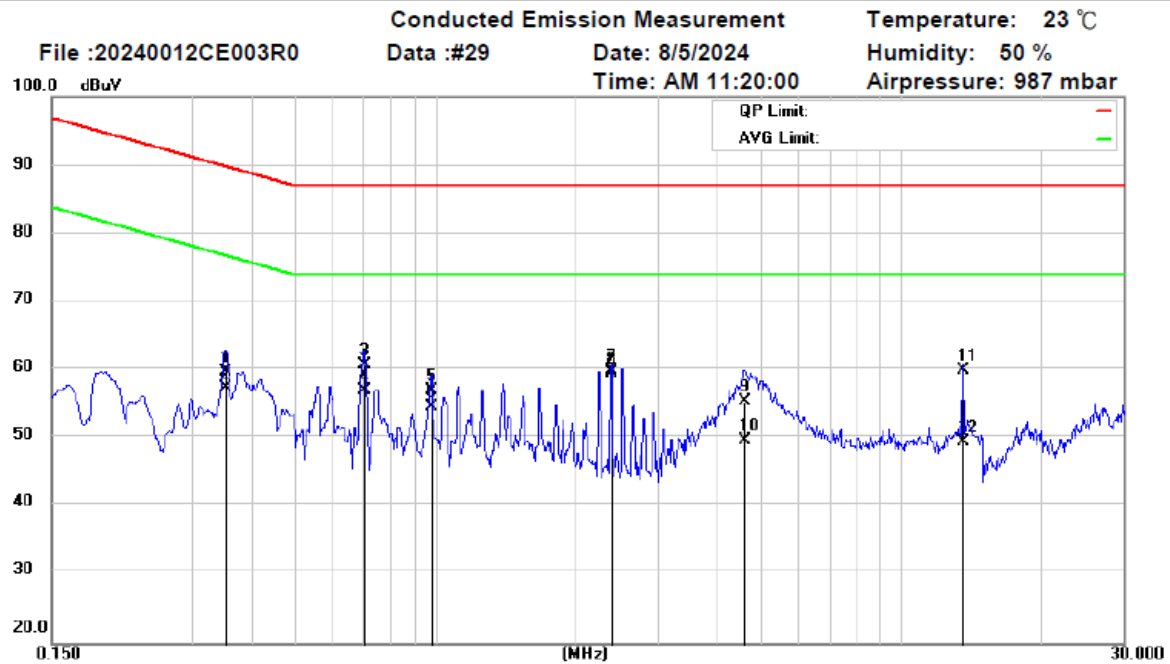
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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : lperf

Comments: Full system.Mode1,I210_MS-04LAN-R10_Port2_1Gbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.3534	49.88	9.83	0.06	59.77	89.88	-30.11	QP	
	0.3534	47.50	9.83	0.06	57.39	76.88	-19.49	AVG	
	0.7044	50.97	9.69	0.07	60.73	87.00	-26.27	QP	
	0.7044	47.23	9.69	0.07	56.99	74.00	-17.01	AVG	
	0.9784	47.37	9.64	0.08	57.09	87.00	-29.91	QP	
	0.9784	45.01	9.64	0.08	54.73	74.00	-19.27	AVG	
	2.3757	50.30	9.58	0.13	60.01	87.00	-26.99	QP	
*	2.3757	49.85	9.58	0.13	59.56	74.00	-14.44	AVG	
	4.6030	45.80	9.56	0.19	55.55	87.00	-31.45	QP	
	4.6030	40.04	9.56	0.19	49.79	74.00	-24.21	AVG	
	13.5616	50.10	9.6	0.29	59.99	87.00	-27.01	QP	
	13.5616	39.64	9.6	0.29	49.53	74.00	-24.47	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN TESEQ T800 Cat5

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

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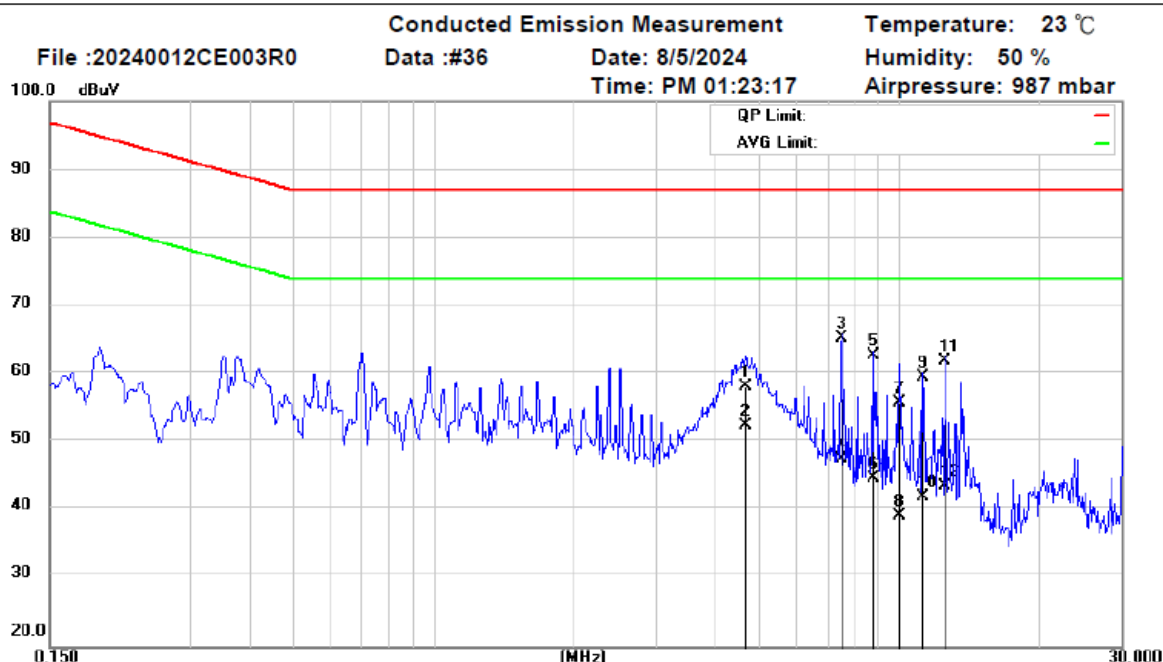
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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MiTAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : lperf

Comments: Full system.Mode1,I210_MS-04LAN-R10_Port3_10Mbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	4.6487	48.41	9.55	0.19	58.15	87.00	-28.85	QP	
*	4.6487	42.73	9.55	0.19	52.47	74.00	-21.53	AVG	
	7.5000	55.63	9.55	0.22	65.40	87.00	-21.60	QP	
	7.5000	37.84	9.55	0.22	47.61	74.00	-26.39	AVG	
	8.7500	52.96	9.55	0.24	62.75	87.00	-24.25	QP	
	8.7500	35.00	9.55	0.24	44.79	74.00	-29.21	AVG	
	9.9988	46.06	9.55	0.25	55.86	87.00	-31.14	QP	
	9.9988	29.43	9.55	0.25	39.23	74.00	-34.77	AVG	
	11.2500	49.71	9.57	0.27	59.55	87.00	-27.45	QP	
	11.2500	32.21	9.57	0.27	42.05	74.00	-31.95	AVG	
	12.5000	52.09	9.59	0.28	61.96	87.00	-25.04	QP	
	12.5000	33.73	9.59	0.28	43.60	74.00	-30.40	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN TESEQ T800 Cat5

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

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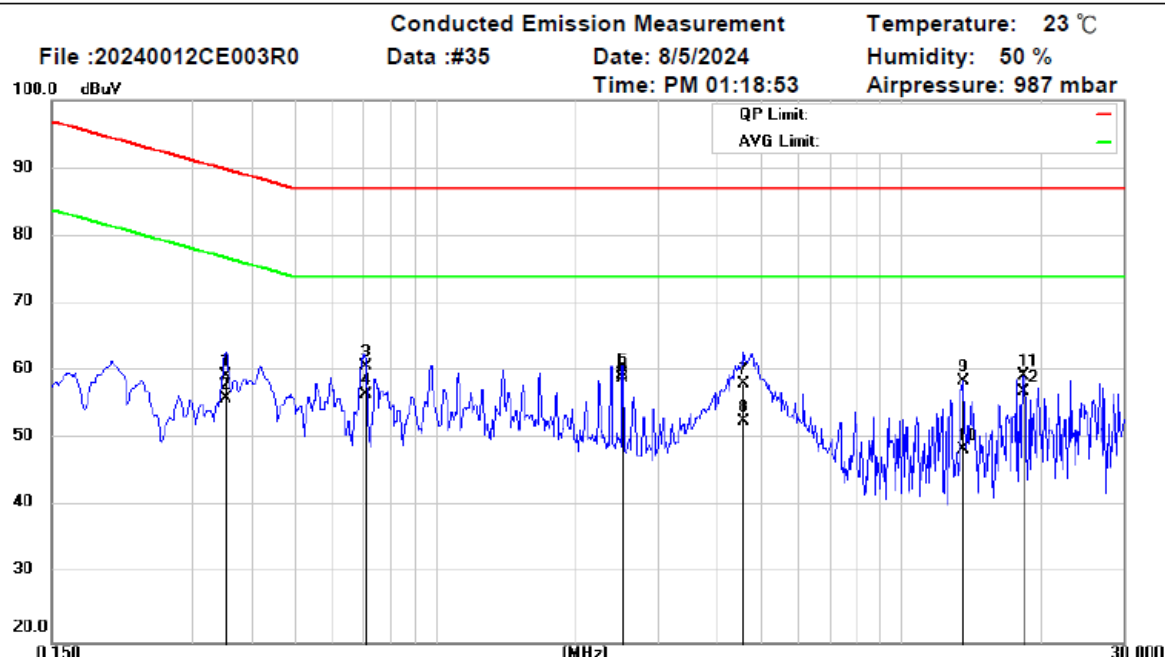
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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : Iperf

Comments: Full system.Mode1,I210_MS-04LAN-R10_Port3_100Mbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.3535	49.47	9.83	0.06	59.36	89.88	-30.52	QP	
	0.3535	46.21	9.83	0.06	56.10	76.88	-20.78	AVG	
	0.7053	51.01	9.69	0.07	60.77	87.00	-26.23	QP	
	0.7053	46.80	9.69	0.07	56.56	74.00	-17.44	AVG	
	2.5148	49.93	9.58	0.14	59.65	87.00	-27.35	QP	
*	2.5148	49.28	9.58	0.14	59.00	74.00	-15.00	AVG	
	4.5961	48.49	9.56	0.19	58.24	87.00	-28.76	QP	
	4.5961	42.89	9.56	0.19	52.64	74.00	-21.36	AVG	
	13.5612	48.70	9.6	0.29	58.59	87.00	-28.41	QP	
	13.5612	38.62	9.6	0.29	48.51	74.00	-25.49	AVG	
	18.2432	49.44	9.67	0.34	59.45	87.00	-27.55	QP	
	18.2432	46.97	9.67	0.34	56.98	74.00	-17.02	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN TESEQ T800 Cat5

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

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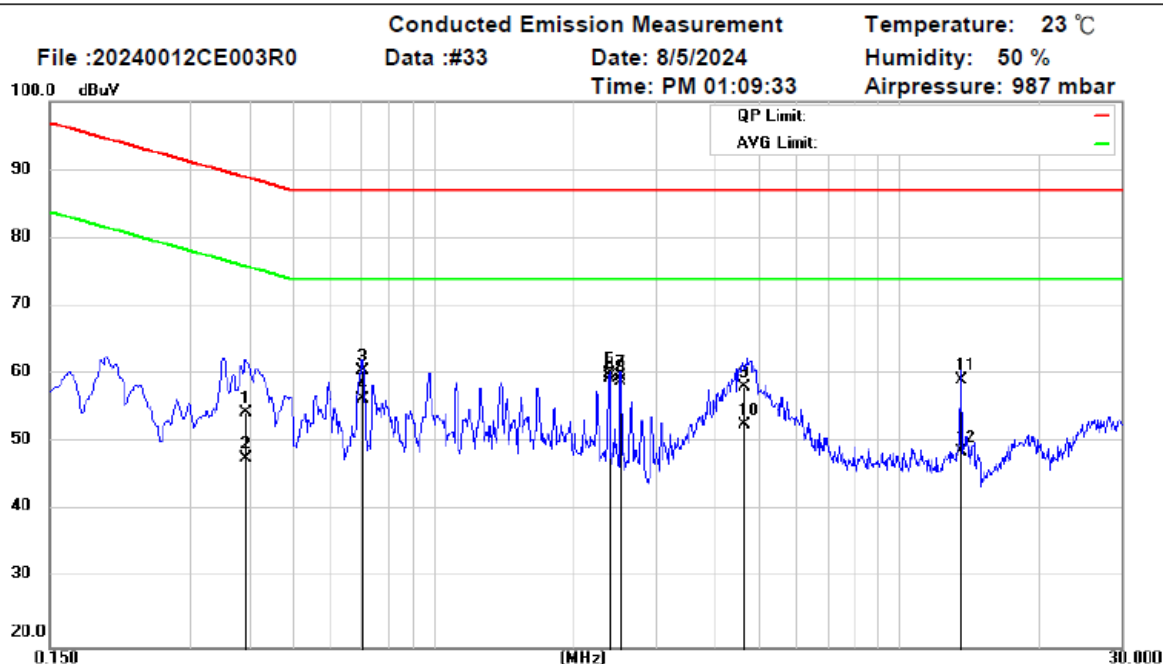
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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : lperf

Comments: Full system.Mode1,I210_MS-04LAN-R10_Port3_1Gbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.3950	44.65	9.8	0.06	54.51	88.96	-34.45	QP	
	0.3950	37.80	9.8	0.06	47.66	75.96	-28.30	AVG	
	0.7043	50.87	9.69	0.07	60.63	87.00	-26.37	QP	
	0.7043	46.67	9.69	0.07	56.43	74.00	-17.57	AVG	
	2.3755	50.57	9.58	0.13	60.28	87.00	-26.72	QP	
*	2.3755	49.87	9.58	0.13	59.58	74.00	-14.42	AVG	
	2.5162	50.13	9.58	0.14	59.85	87.00	-27.15	QP	
	2.5162	49.34	9.58	0.14	59.06	74.00	-14.94	AVG	
	4.6301	48.56	9.55	0.19	58.30	87.00	-28.70	QP	
	4.6301	42.90	9.55	0.19	52.64	74.00	-21.36	AVG	
	13.5612	49.41	9.6	0.29	59.30	87.00	-27.70	QP	
	13.5612	38.80	9.6	0.29	48.69	74.00	-25.31	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN TESEQ T800 Cat5

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

File :20240012CE003R0\Data :#33

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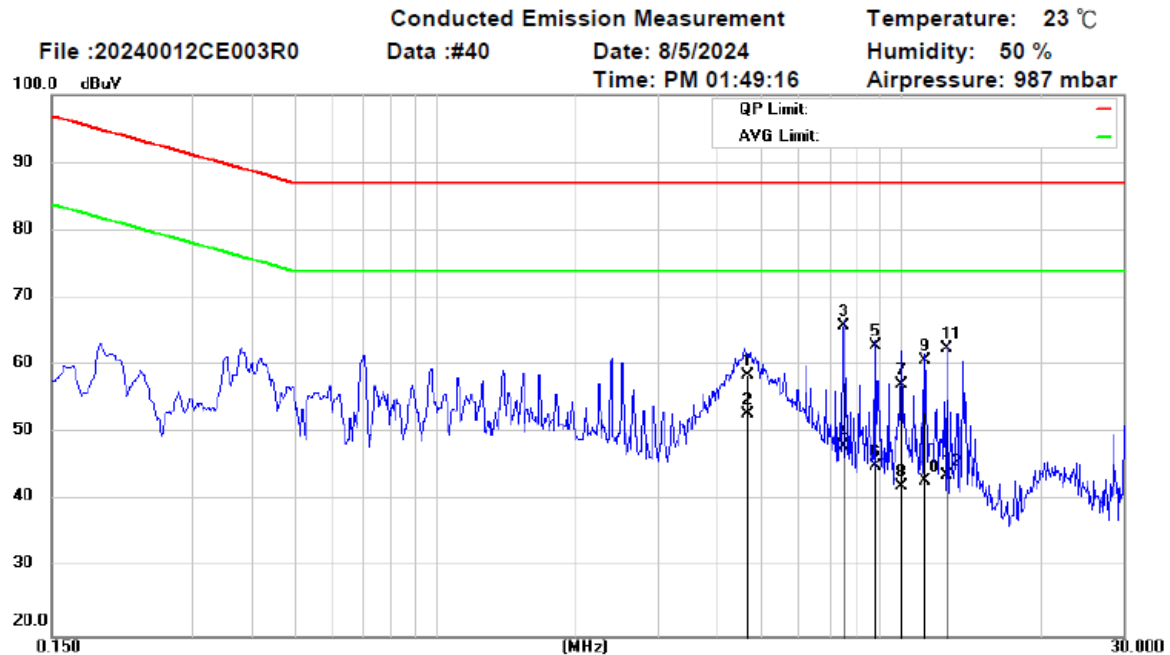
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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : lperf

Comments: Full system.Mode1,I210_MS-04LAN-R10_Port4_10Mbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	4.6577	48.88	9.55	0.19	58.62	87.00	-28.38	QP	
	4.6577	43.10	9.55	0.19	52.84	74.00	-21.16	AVG	
*	7.5000	56.22	9.55	0.22	65.99	87.00	-21.01	QP	
	7.5000	38.42	9.55	0.22	48.19	74.00	-25.81	AVG	
	8.7500	53.26	9.55	0.24	63.05	87.00	-23.95	QP	
	8.7500	35.30	9.55	0.24	45.09	74.00	-28.91	AVG	
	10.0000	47.37	9.55	0.25	57.17	87.00	-29.83	QP	
	10.0000	32.50	9.55	0.25	42.30	74.00	-31.70	AVG	
	11.2500	50.89	9.57	0.27	60.73	87.00	-26.27	QP	
	11.2500	33.11	9.57	0.27	42.95	74.00	-31.05	AVG	
	12.5004	52.61	9.59	0.28	62.48	87.00	-24.52	QP	
	12.5004	33.99	9.59	0.28	43.86	74.00	-30.14	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN TESEQ T800 Cat5

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

File :20240012CE003R0\Data :#40

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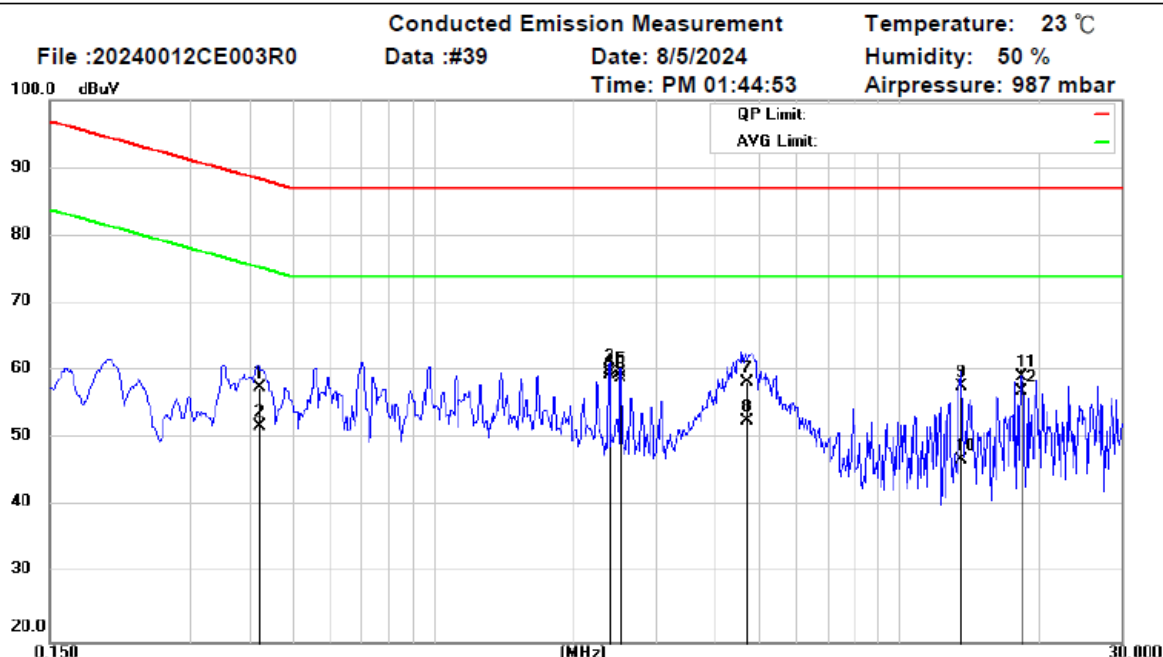
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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : Iperf

Comments: Full system.Mode1,I210_MS-04LAN-R10_Port4_100Mbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.4203	47.82	9.78	0.06	57.66	88.44	-30.78	QP	
	0.4203	41.98	9.78	0.06	51.82	75.44	-23.62	AVG	
	2.3755	50.56	9.58	0.13	60.27	87.00	-26.73	QP	
*	2.3755	49.81	9.58	0.13	59.52	74.00	-14.48	AVG	
	2.5150	50.06	9.58	0.14	59.78	87.00	-27.22	QP	
	2.5150	49.34	9.58	0.14	59.06	74.00	-14.94	AVG	
	4.7184	48.65	9.55	0.19	58.39	87.00	-28.61	QP	
	4.7184	42.91	9.55	0.19	52.65	74.00	-21.35	AVG	
	13.5616	47.97	9.6	0.29	57.86	87.00	-29.14	QP	
	13.5616	37.06	9.6	0.29	46.95	74.00	-27.05	AVG	
	18.2432	49.27	9.67	0.34	59.28	87.00	-27.72	QP	
	18.2432	46.93	9.67	0.34	56.94	74.00	-17.06	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN TESEQ T800 Cat5

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

File :20240012CE003R0\Data :#39

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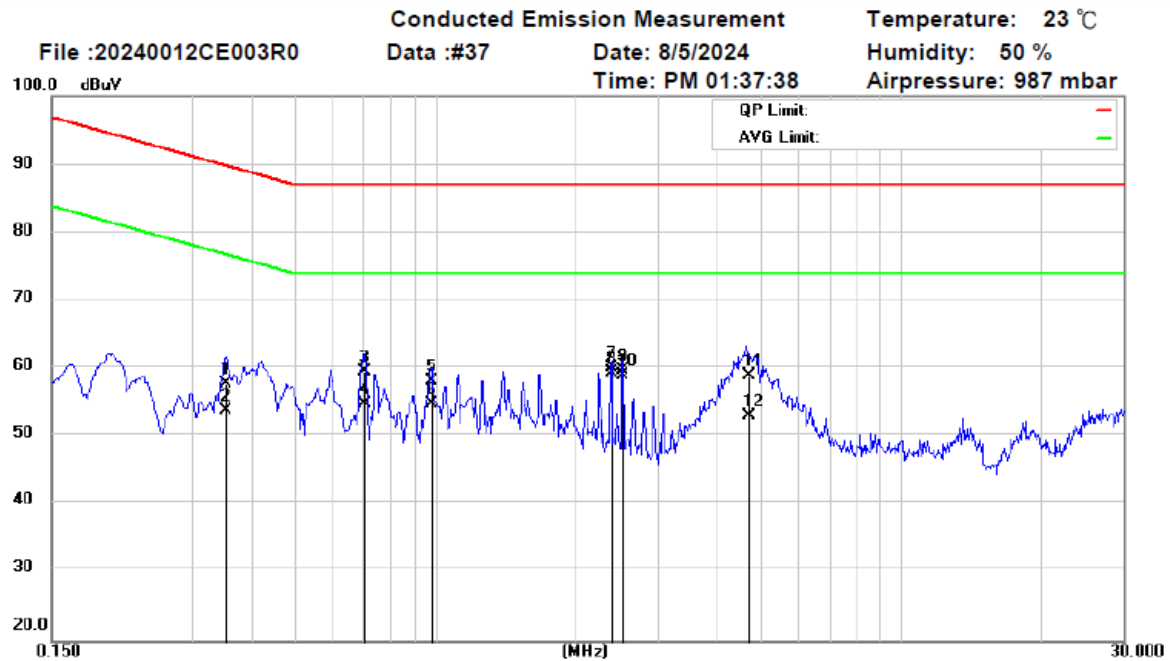
Test Report No.:20240012CAR0A

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Site : Conduction Emission

Limit : (AAN)CISPR32 class A_QP_VOLTAGE

Phase:

Company : MITAC

Power : 230VAC/50Hz

EUT : MX2-10ADP

Exercise Program : lperf

Comments: Full system.Mode1,I210_MS-04LAN-R10_Port4_1Gbps link

Mk.	Frequency MHz	Raw Data dBuV	AMN/AAN Loss	Cable Loss dB	Corr. Data dBuV	Limit dBuV	Margin dB	Detector	Remarks
	0.3535	47.95	9.83	0.06	57.84	89.88	-32.04	QP	
	0.3535	43.95	9.83	0.06	53.84	76.88	-23.04	AVG	
	0.7035	49.75	9.69	0.07	59.51	87.00	-27.49	QP	
	0.7035	45.12	9.69	0.07	54.88	74.00	-19.12	AVG	
	0.9796	48.58	9.64	0.08	58.30	87.00	-28.70	QP	
	0.9796	45.07	9.64	0.08	54.79	74.00	-19.21	AVG	
	2.3753	50.53	9.58	0.13	60.24	87.00	-26.76	QP	
*	2.3753	49.76	9.58	0.13	59.47	74.00	-14.53	AVG	
	2.5152	50.10	9.58	0.14	59.82	87.00	-27.18	QP	
	2.5152	49.35	9.58	0.14	59.07	74.00	-14.93	AVG	
	4.6847	49.19	9.55	0.19	58.93	87.00	-28.07	QP	
	4.6847	43.40	9.55	0.19	53.14	74.00	-20.86	AVG	

Spectrum Analyzer: ESR

Receiver: ESR_1

AMN/AAN TESEQ T800 Cat5

Cable: EMC400 B140304

*:Maximum data x:Over limit !:over margin

RBW: 9 KHz

VBW: 30 KHz

File :20240012CE003R0\Data :#37

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ATTACHMENT 2 - RADIATED EMISSION TEST RESULTS

- **Test Reference:** EN 55032 、 CISPR 32 and BS EN 55032

- **Test Procedure:**

The EUT is set up according to the guidelines of EN 55032 、 CISPR 32 and BS EN 55032 for radiated emissions on table was placed on ground plane. The turn table can rotate 360 degrees to determine the position of the max. emission level. For 30MHz to 1GHz frequency range, EUT was set 10 meters distances and from 1GHz to 6GHz frequency range, EUT was set 3 meters distances Semi-Anechoic chamber away from the receiving antenna which was mounted on an antenna tower. The antenna moved up and down between 1 to 4 meters for 30MHz to 1GHz frequency range and above 1GHz to 6GHz frequency range, in accordance with the requirements in CISPR 16-2-3, the following information as table shall be referred during the test to find out the max. emission level contains horizontal and vertical polarization.

The basic equation with a sample calculation is as follows:

$\text{Corr.Data} = \text{Raw Data} + \text{Ant_F} + \text{Cab_L} - \text{PreAmp}$

$\text{Corr.Data} = \text{Field Strength}$

$\text{Raw Data} = \text{Receiver Amplitude}$

$\text{Ant_F} = \text{Antenna Factor}$

$\text{Cab_L} = \text{Cable Loss}$

$\text{PreAmp} = \text{Amplifier Factor}$

*All cables those are considered part of the EUT shall be arrange on GRP above non-conductive support detail as Annex D of EN 55032

*EUTs that display video images or EUTs with ports that are used to provide video signals shall be exercised in accordance with Table B.1 and B.2 requirements of CISPR 32

- **Test Result:** The EUT meets the Class A device requirement.
- **Change or Modification:** There is no modification installed by MITAC EMC Laboratory test personnel.
- **Test Raw Data:** Following pages are detailed testing contents
- **Test Equipment:**

Test Equipment	Manufacturer/ Model	Serial No.	Last Calibration Date	Due Date
EMI Receiver	ROHDE&SCHWARZ / ESU	100501	2024/3/1	2025/2/28
EMI Receiver	ROHDE&SCHWARZ / ESCI	100696	2023/9/6	2024/9/5
Antenna	Shwazbeck & EMCI / VULB9168 & N-18-06	716 & AT-N0536	2023/9/22	2024/9/21
Antenna	EMCO 3117	00251992	2023/8/17	2024/8/16
Pre-Amplifier	EMC9135	980343	2024/6/26	2025/6/25
Pre-Amplifier	AGILENT / 8449B	3008A01734	2024/6/15	2025/6/14
CABLE	10m Left	---	2024/8/3	2025/8/2
CABLE	EMCI/EMC105-NM	210230 210231	2023/9/11	2024/9/10
CABLE	EMCI/EMC104-SM-SF	170812&141007	2023/9/11	2024/9/10



File :20240012RE004R0 Radiated Emission Measurement Temperature: 19 °C
Data :#3 Date: 8/7/2024 Humidity: 62 %
Time: AM 10:41:47 Airpressure: 972 mbar



Site : 10m Chamber
Limit : (RE)CISPR32 class A 10m
Company : MiTAC
EUT : MX2-10ADP
Exercise Program : BurnInTest V9.0
Comments : Full system.Mode1
Polarization: Horizontal
Power : 230VAC/50Hz

Mk.	Frequency MHz	Raw Data dBuV	Ant_F dB/m	Cab_L dB	PreAmp dB	Corr. Data dBuV/m	Limit dBuV/m	Margin dB	Ant. cm	Ang. deg.	Detector	Remarks
	61.5121	33.02	18.45	1.37	37.02	15.82	40.00	-24.18	400	36	QP	
	91.5012	43.78	13.24	1.66	36.8	21.88	40.00	-18.12	400	349	QP	
*	296.9896	52.06	18.5	3	36.29	37.27	47.00	-9.73	342	291	QP	
	536.9672	44.53	23.42	4.06	36.75	35.26	47.00	-11.74	184	205	QP	
	634.9934	39.02	25.32	4.42	36.89	31.87	47.00	-15.13	100	230	QP	
	915.7448	33.83	28.32	5.32	37.1	30.37	47.00	-16.63	100	172	QP	

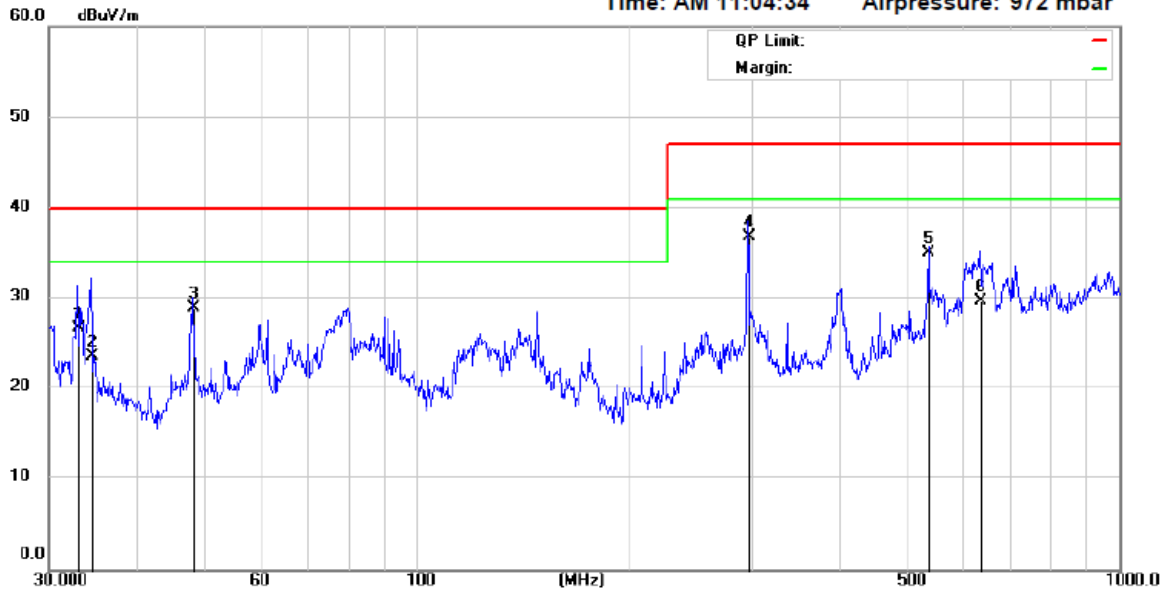
Spectrum Analyzer: ESCI
Receiver: ESCI_1
Antenna: 9168-716+PAD
Amplifier: 9135 980343

*:Maximum data x:Over limit !:over margin
RBW: 120 KHz
VBW: 300 KHz
Cable: 10ML + EMC105

File :20240012RE004R0\Data :#3

Page: 1

File :20240012RE004R0 Radiated Emission Measurement Temperature: 19 °C
Data :#4 Date: 8/7/2024 Humidity: 62 %
Time: AM 11:04:34 Airpressure: 972 mbar



Site : 10m Chamber

Limit : (RE)CISPR32 class A 10m

Company : MITAC

EUT : MX2-10ADP

Exercise Program : BurnInTest V9.0

Comments: Full system.Mode1

Polarization: Vertical

Power : 230VAC/50Hz

Mk.	Frequency MHz	Raw Data dBuV	Ant_F dB/m	Cab_L dB	PreAmp dB	Corr. Data dBuV/m	Limit dBuV/m	Margin dB	Ant. cm	Ang. deg.	Detector	Remarks
	33.0144	45.10	18.03	0.98	37.32	26.79	40.00	-13.21	198	138	QP	
	34.4794	41.70	18.19	1.01	37.3	23.60	40.00	-16.40	152	39	QP	
	48.0781	45.96	18.96	1.21	37.13	29.00	40.00	-11.00	173	92	QP	
*	296.9995	51.67	18.5	3	36.29	36.88	47.00	-10.12	100	194	QP	
	536.9693	44.34	23.42	4.06	36.75	35.07	47.00	-11.93	100	179	QP	
	634.6787	36.88	25.32	4.41	36.89	29.72	47.00	-17.28	217	187	QP	

Spectrum Analyzer: ESCI
Receiver: ESCI_1
Antenna: 9168-716+PAD
Amplifier: 9135 980343

*:Maximum data x:Over limit !:over margin
RBW: 120 KHz
VBW: 300 KHz
Cable: 10ML + EMC105

File :20240012RE004R0\Data #4

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Test Report No.:20240012CAR0A

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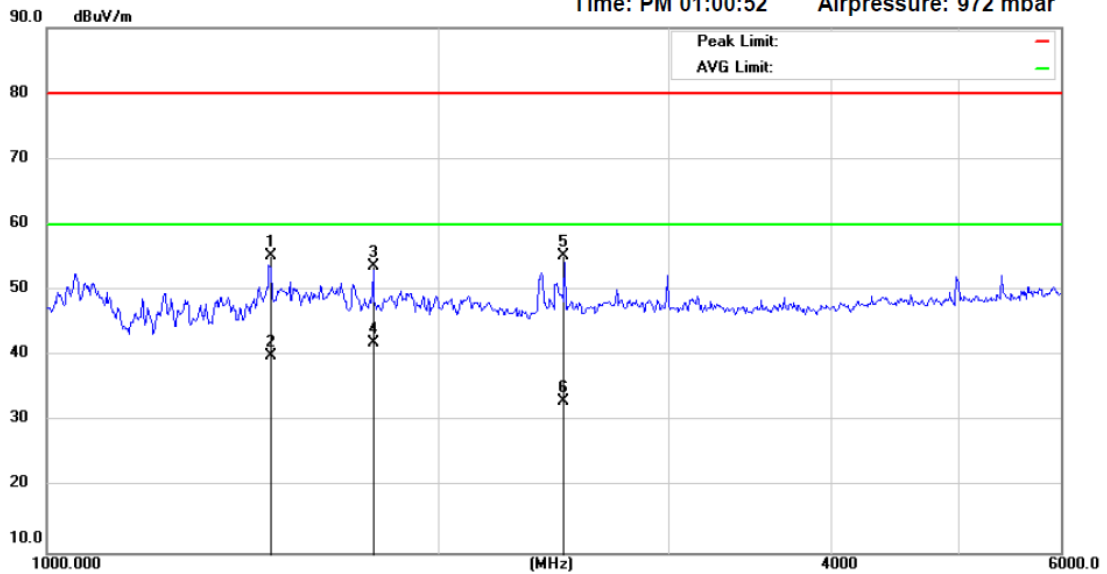
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File :20240012RE004-1R0 Radiated Emission Measurement Temperature: 19 °C
Data :#1 Date: 08/07/2024 Humidity: 62 %
Time: PM 01:00:52 Airpressure: 972 mbar



Site : 10m Chamber
Limit : (RE)CISPR32 class A 3m_PEAK Polarization: *Horizontal*
Company : MITAC Power : 230VAC/50Hz
EUT : MX2-10ADP
Exercise Program : BurnInTest V9.0
Comments: Full system.Mode1

Mk.	Frequency MHz	Raw Data dBuV	Ant_F dB/m	Cab_L dB	PreAmp dB	Corr. Data dBuV/m	Limit dBuV/m	Margin dB	Ant. cm	Ang. deg.	Detector	Remarks
	1484.967	61.47	27.9	2.45	36.49	55.33	80.00	-24.67	100	188	peak	
	1484.967	46.32	27.9	2.45	36.49	40.18	60.00	-19.82	100	188	AVG	
	1782.083	57.46	30.04	2.68	36.37	53.81	80.00	-26.19	100	223	peak	
*	1782.083	45.68	30.04	2.68	36.37	42.03	60.00	-17.97	100	223	AVG	
	2491.434	56.21	32.39	3.19	36.48	55.31	80.00	-24.69	100	158	peak	
	2491.434	34.05	32.39	3.19	36.48	33.15	60.00	-26.85	100	158	AVG	

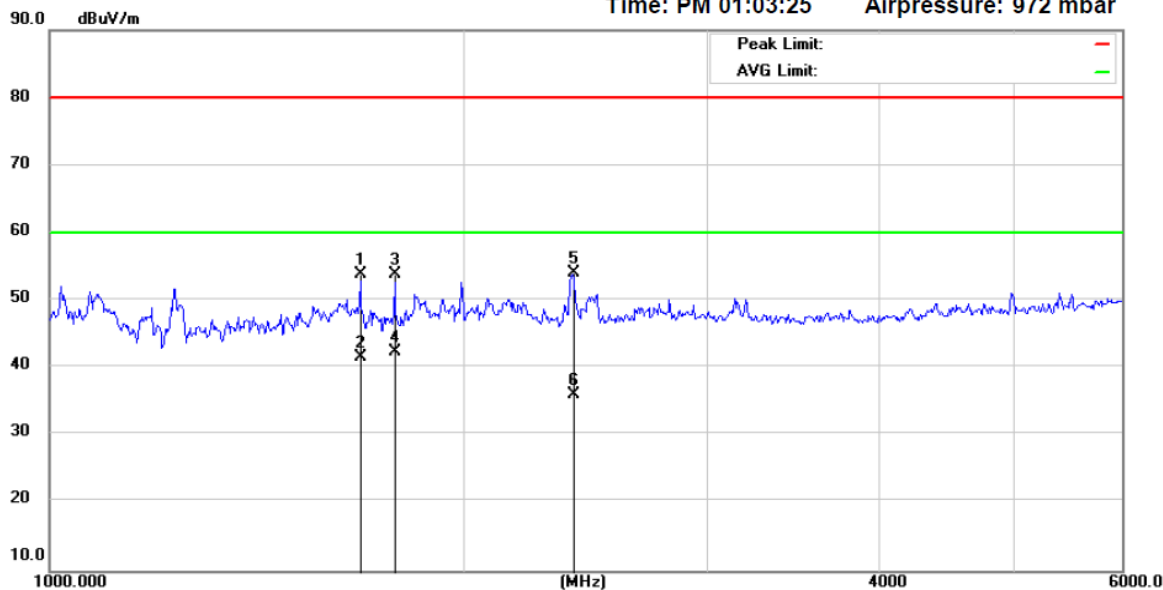
Spectrum Analyzer: ESU
Receiver: ESU_1
Antenna: 3117-3m-00251992
Amplifier: PA-8449B-1734
*:Maximum data x:Over limit !:over margin
RBW: 1000 KHz
VBW: 3000 KHz
Cable: 104 170812&14

File :20240012RE004-1R0\Data :#1

Page: 1



File :20240012RE004-1R0 Radiated Emission Measurement Temperature: 19 °C
Data :#2 Date: 08/07/2024 Humidity: 62 %
Time: PM 01:03:25 Airpressure: 972 mbar



Site : 10m Chamber
Limit : (RE)CISPR32 class A 3m_PEAK Polarization: Vertical
Company : MiTAC Power : 230VAC/50Hz
EUT : MX2-10ADP
Exercise Program : BurnInTest V9.0
Comments: Full system.Mode1

Mk.	Frequency MHz	Raw Data dBuV	Ant_F dB/m	Cab_L dB	PreAmp dB	Corr. Data dBuV/m	Limit dBuV/m	Margin dB	Ant. cm	Ang. deg.	Detector	Remarks
	1683.168	58.52	29.29	2.6	36.41	54.00	80.00	-26.00	100	175	peak	
	1683.168	46.28	29.29	2.6	36.41	41.76	60.00	-18.24	100	175	AVG	
	1781.923	57.55	30.04	2.68	36.37	53.90	80.00	-26.10	100	175	peak	
*	1781.923	46.12	30.04	2.68	36.37	42.47	60.00	-17.53	100	175	AVG	
	2399.241	55.28	32.26	3.13	36.44	54.23	80.00	-25.77	100	183	peak	
	2399.241	37.31	32.26	3.13	36.44	36.26	60.00	-23.74	100	183	AVG	

Spectrum Analyzer: ESU
Receiver: ESU_1
Antenna: 3117-3m-00251992
Amplifier: PA-8449B-1734

*:Maximum data x:Over limit !:over margin
RBW: 1000 KHz
VBW: 3000 KHz
Cable: 104 170812&14

File :20240012RE004-1R0\Data :#2

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ATTACHMENT 3 - HARMONIC CURRENT EMISSIONS TEST

- **Test Reference:** IEC 61000-3-2 、EN IEC 61000-3-2 and BS EN IEC 61000-3-2
- **Test Procedure:**

HFa-16 Program - version 1.0.42.0 software performs compliant tests to the IEC 61000-3-2 、EN IEC 61000-3-2 and BS EN IEC 61000-3-2 standards in the following manner:

 - It sets up the Harmonic Test System.

When the compliance test is run, the software generates a bar graph that represents either the absolute magnitudes of 40 harmonics, or the magnitudes of 40 harmonics compared to predetermined test limits. Besides, the software will generate the voltage & current graph and with RMS voltage, RMS current, peak current, real power, apparent power and power factor as well.

 - The software also generates a table that displays either the absolute magnitudes of 40 harmonics, or the magnitudes of 40 harmonics compared to predetermined test limits. The table shows both the peak data values and the present data values. Note that you can also display the data of any single harmonic versus time, either as an absolute magnitude or compared to limits.
- **Test Result:** The EUT meets the Class A device requirement.
- **Change or Modification:** There is no modification installed by MITAC EMC Laboratory test personnel.
- **Test Raw Data:** Following pages are detailed testing contents
- **Test Equipment:**

Test Equipment	Manufacturer/ Model	Serial No.	Last Calibration Date	Due Date
Harmonic/Flicker Tester	PPST LFZ-1-16	20087	2024/5/6	2025/5/5
Power Source	PPST ECTS2-140M-B	550202	2024/5/6	2025/5/5

Test File :20240012HA001
EUT :MX2-10ADP
Test Standard :Test per IEC 61000-3-2 Ed. 5.2 : 2024
Test Class :(Class A Test) - Inter-Harmonics Enabled (1PH)
Test Result :PASS - POHC Allowable
Test Date :8/8/2024
Start Time :11:04:31 AM
Stop Time :11:14:42 AM
Test Duration (min) :10

Source Qualification :Compliance with IEC 61000-3-2 Ed. 5.2 : 2024
Power Source Distortion :OK
Temp (°C) :25
Hum. (% RH) :49
Customer :MITAC
Test By :JOHN HSIEH
Comments :Test site: S3 ; Full system.Mode1

General Test Data	:(Phase A)		
Vrms (Volts)/V-pk/V-CF	:231.20 / 327.1 / 1.415	Frequency (Hz)	:50.0001
I_rms (Amps)	:0.305	Power (VA)/VAR	:74.95 / 40.02
I_fund/I_ref (Amps)	:0.278 / 0.3133	Power (W)	:58.80
I_peak (Amps)/I-CF	:1.053 / 2.137	Power Factor	:0.846
V-THD (%)	:0.04	I-THD (%)	:42.75
POHC (A)	:0.0192 (method C.3)	POHC Limit (A)	:0.2514
I-THC (A)	:0.127	Meas. Pwr (Min / Max)	:46.73W/92.38W
Phase angle of H5 (deg)	:302.06		

Current Harmonics (values at the end of test)

Harm No.	Harm. Ave.	Limit (100%)	% Of Limits	Result (Ave.)	Result (Max.)	Harm. Win.	Win. (150%)	% Of Max
2	0.0052	1.0800	0.5	PASS	PASS	0.0062	1.6200	0.4
3	0.1065	2.3000	4.6	PASS	PASS	0.1221	3.4500	3.5
4	0.0023	0.4300	0.5	PASS	PASS	0.0036	0.6450	0.6
5	0.0222	1.1400	1.9	PASS	PASS	0.0290	1.7100	1.7
6	0.0013	0.3000	0.4	PASS	PASS	0.0023	0.4500	0.5
7	0.0316	0.7700	4.1	PASS	PASS	0.0332	1.1550	2.9
8	0.0012	0.2300	0.5	PASS	PASS	0.0020	0.3450	0.6
9	0.0162	0.4000	4.1	PASS	PASS	0.0196	0.6000	3.3
10	0.0012	0.1840	0.6	PASS	PASS	0.0019	0.2760	0.7
11	0.0126	0.3300	3.8	PASS	PASS	0.0138	0.4950	2.8
12	0.0013	0.1533	0.8	PASS	PASS	0.0021	0.2300	0.9
13	0.0152	0.2100	7.2	PASS	PASS	0.0167	0.3150	5.3
14	0.0014	0.1314	1.1	PASS	PASS	0.0021	0.1971	1.1
15	0.0094	0.1500	6.3	PASS	PASS	0.0125	0.2250	5.6
16	0.0017	0.1150	1.5	PASS	PASS	0.0027	0.1725	1.6
17	0.0097	0.1324	7.3	PASS	PASS	0.0103	0.1986	5.2
18	0.0018	0.1022	1.7	PASS	PASS	0.0024	0.1533	1.6
19	0.0067	0.1184	5.7	PASS	PASS	0.0085	0.1776	4.8
20	0.0017	0.0920	1.8	PASS	PASS	0.0023	0.1380	1.7
21	0.0102	0.1071	9.5	PASS	PASS	0.0122	0.1607	7.6
22	0.0015	0.0836	1.8	PASS	PASS	0.0024	0.1254	1.9
23	0.0076	0.0978	7.8	PASS	PASS	0.0107	0.1467	7.3
24	0.0013	0.0767	1.7	PASS	PASS	0.0024	0.1151	2.0
25	0.0064	0.0900	7.1	PASS	PASS	0.0083	0.1350	6.1
26	0.0011	0.0708	1.5	PASS	PASS	0.0018	0.1062	1.7
27	0.0049	0.0833	5.8	PASS	PASS	0.0060	0.1250	4.8
28	0.0010	0.0657	1.5	PASS	PASS	0.0014	0.0986	1.4
29	0.0054	0.0776	7.0	PASS	PASS	0.0067	0.1164	5.7
30	0.0010	0.0613	1.6	PASS	PASS	0.0013	0.0920	1.4
31	0.0051	0.0720	7.1	PASS	PASS	0.0055	0.1080	5.1
32	0.0011	0.0575	1.8	PASS	PASS	0.0014	0.0863	1.6
33	0.0052	0.0682	7.6	PASS	PASS	0.0061	0.1023	6.0
34	0.0012	0.0541	2.2	PASS	PASS	0.0015	0.0812	1.9
35	0.0048	0.0643	7.5	PASS	PASS	0.0059	0.0965	6.1
36	0.0012	0.0511	2.4	PASS	PASS	0.0015	0.0767	1.9
37	0.0046	0.0608	7.6	PASS	PASS	0.0056	0.0912	6.2
38	0.0013	0.0484	2.6	PASS	PASS	0.0017	0.0726	2.3
39	0.0040	0.0577	6.9	PASS	PASS	0.0048	0.0866	5.5
40	0.0009	0.0460	2.0	PASS	PASS	0.0012	0.0690	1.8

Power Source Verification Data

Harm No.	Harm. Value	Harm. Limit	% Of Limits	% Of Vfund	Result
RMS	231.225	230.000	100.532	100.000	OK
2	0.014	0.462	2.954	0.006	OK
3	0.082	2.081	3.916	0.035	OK
4	0.010	0.462	2.091	0.004	OK
5	0.012	0.925	1.327	0.005	OK
6	0.006	0.462	1.236	0.002	OK
7	0.017	0.694	2.503	0.008	OK
8	0.007	0.462	1.426	0.003	OK
9	0.008	0.462	1.695	0.003	OK
10	0.005	0.462	1.168	0.002	OK
11	0.003	0.231	1.485	0.001	OK
12	0.004	0.231	1.804	0.002	OK
13	0.005	0.231	1.980	0.002	OK
14	0.005	0.231	1.991	0.002	OK
15	0.003	0.231	1.185	0.001	OK
16	0.004	0.231	1.618	0.002	OK
17	0.004	0.231	1.596	0.002	OK
18	0.003	0.231	1.220	0.001	OK
19	0.004	0.231	1.721	0.002	OK
20	0.002	0.231	0.725	0.001	OK
21	0.003	0.231	1.187	0.001	OK
22	0.002	0.231	0.822	0.001	OK
23	0.003	0.231	1.437	0.001	OK
24	0.002	0.231	0.761	0.001	OK
25	0.003	0.231	1.207	0.001	OK
26	0.002	0.231	0.893	0.001	OK
27	0.002	0.231	0.890	0.001	OK
28	0.003	0.231	1.358	0.001	OK
29	0.003	0.231	1.307	0.001	OK
30	0.003	0.231	1.208	0.001	OK
31	0.003	0.231	1.429	0.001	OK
32	0.002	0.231	1.081	0.001	OK
33	0.004	0.231	1.685	0.002	OK
34	0.003	0.231	1.147	0.001	OK
35	0.003	0.231	1.161	0.001	OK
36	0.003	0.231	1.233	0.001	OK
37	0.002	0.231	0.941	0.001	OK
38	0.002	0.231	0.681	0.001	OK
39	0.003	0.231	1.160	0.001	OK
40	0.002	0.231	0.836	0.001	OK

ATTACHMENT 4 - VOLTAGE FLUCTUATIONS/FLICKER TEST

- **Test Reference:** IEC 61000-3-3 、EN 61000-3-3 and BS EN 61000-3-3
- **Test Procedure:**
The EUT power is plugged into a Harmonic and Flicker Test Set (Power Source & Signal Conditioning Unit) and a software program is chosen to run the Flicker and Voltage Fluctuation Test. The software performs compliant tests to the IEC 61000-3-3 、EN 61000-3-3 and BS EN 61000-3-3 standards in the following manner:

It sets up the Flicker Test System.

Summary data included maximum RMS voltage deviation (Dmax), steady-state voltage change (AC), and the time interval during which the voltage deviation exceeds the prescribed limit (D(t)), and the short-term flicker indicator (Pst). Check the data complied with the limit list below:

Parameter	Limit
Dmax	4
DC	3.3
Pst	1
Plt	0.65
D(t)	0.5

- **Test Result:** The EUT meets requirement.
- **Change or Modification:** There is no modification installed by MITAC EMC Laboratory test personnel.
- **Test Raw Data:** Following pages are detailed testing contents
- **Test Equipment:**

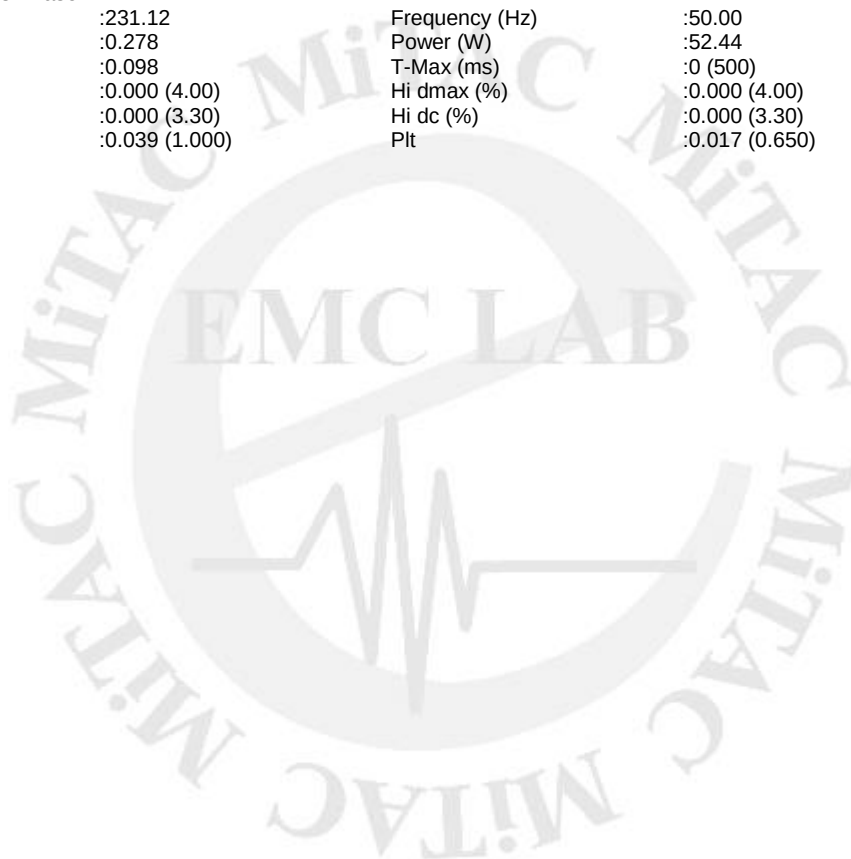
Test Equipment	Manufacturer/Model	Serial No.	Last Calibration Date	Due Date
Harmonic/Flicker Tester	PPST LFZ-1-16	20087	2024/5/6	2025/5/5
Power Source	PPST ECTS2-140M-B	550202	2024/5/6	2025/5/5

Test File :20240012FL001
EUT :MX2-10ADP
Test Standard :Test per IEC 61000-3-3 Ed. 3.2 : 2021
Test Class :Flicker Test, All Parameters (Ext Ref. Imped.) (1PH)
Test Result :PASS
Test Date :8/8/2024
Start Time :12:01:44 PM
Stop Time :12:11:56 PM
Test Duration (min) :10

Source Qualification :Compliance with IEC 61000-3-3 Ed. 3.2 : 2021
Temp (°C) :25
Hum. (% RH) :49
Customer :MITAC
Test By :JOHN HSIEH
Comments :Test site: S3 ; Full system.Mode1

Last Test Parameters:Phase A

Vrms (Volts)	:231.12	Frequency (Hz)	:50.00
I_rms (Amps)	:0.278	Power (W)	:52.44
V-THD (%)	:0.098	T-Max (ms)	:0 (500)
dmax (%)	:0.000 (4.00)	Hi dmax (%)	:0.000 (4.00)
dc (%)	:0.000 (3.30)	Hi dc (%)	:0.000 (3.30)
Pst-001	:0.039 (1.000)	Plt	:0.017 (0.650)



Test Report No.:20240012CAR0A

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ATTACHMENT 5 - ESD IMMUNITY TEST

- **Test Reference:** IEC 61000-4-2 、 EN 61000-4-2 and BS EN 61000-4-2

- **Test Procedure:**

The EUT is set up according to the guidelines of IEC 61000-4-2 、 EN 61000-4-2 and BS EN 61000-4-2 for tabletop equipment. A calibrated ESD gun is then used to test a predetermined set of points of the EUT as described below.

Air discharge: The ESD is applied to all normally accessible points of non-conducted surfaces of the EUT. The test is performed as follows:

- Single discharges;
- At least 10 discharges each at positive and negative polarity;
- Intervals of at least 1 second between successive discharges.

Direct Contact Discharge: The discharges are applied to all conductive surfaces, to the horizontal coupling plane and on a vertical coupling metal plate of 50 cm x 50 cm at front 、 rear 、 left and right of the EUT. (At 0.1 m from EUT) The test is performed as follows:

- Single discharges;
- At least 25 discharges each at positive and negative polarity;
- Intervals of at least 1 second between successive discharges.

- **Required Performance Criteria:**B

- **Test Result:** The EUT meets requirement with Performance Criteria B. The function of lan is degraded during the test but could be recovered automatically.

- **Change or Modification:**Modified IO shell by applicant.

- **Definition of Color of Test Point:** Air Discharge is marked in Red and Contact Discharge is marked in Blue.

- **Test Raw Data:**Following pages are detailed testing contents

- **Test Equipment:**

Test Equipment	Manufacturer/ Model	Serial No.	Last Calibration Date	Due Date
ESD Generator	Noiseken S3011A	ESS17Z7358	2024/4/19	2025/4/18

Test Report No.:20240012CAR0A

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Date : 8/12/2024		Report No. : 20240012ESD003		Engineer : JEFF							
Temperature : 25 °C		Humidity : 45 %		Pressure : 985 mbar							
EUT M/N : MX2-10ADP		EUT info: DVT stage BIOS info: D8920X06 FW info: n/a PSU info: EA12501J-2400 version		Voltage/ frequency ☒ VAC: 230V/50Hz ☐ ADC-38052FG: ☐ ADC-100210FG: ☐ Chroma 62024P-100-50:							
EUT Comment : full system , Mode1											
Harmonised Standard : ☒ EN 55035:2017+A11:2020 ☒ CISPR 35: 2016 ☒ BS EN 55035:2017+A11:2020											
Basic Standard : ☐ IEC 61000-4-2 / EN 61000-4-2 (Corresponding version) ☒ IEC 61000-4-2 / EN 61000-4-2 (Latest version)											
ESD Generator : ☐ EM TEST DITO () ☐ THERMO MZ-15/EC ☐ TESEQ AG/NSG438 () ☒ NoiseKen(☐ B3011A ☒ S3011A)				Test Site: ☐ S3 ☒ S4 ☐ S6							
Power Cord : ☒ One ☐ More than One(single PSU connect to test equipment and other PSUs will NOT connected to supply mains) ☐ More than One(single PSU connect to test equipment and other PSUs will connected to supply mains) ☐ More than One(All PSU connect to test equipment) PSU: ☐ 0 ☐ 1 ☐ 2 ☐ 3 ☐ 4											
Video: ☒ Front ☒ Rear ☐ None Type: ☒ D-Sub x 1 ☐ DVI x ☒ HDMI x 1 ☒ DP x 1 Audio: ☐ Front ☒ Rear ☐ None											
Discharge : Contact Direct 【Metallic Surfaces (Sharp Tip)】											
Times : ☐ least 10 @ 1 PPS ☒ 25 @ 1 PPS											
Test Level/ Acceptance Criteria B											
Test Result											
HCP											
Test Point List	+2 kV	+4 kV	kV	kV	kV	-2 kV	-4 kV	kV	kV	kV	Note
Front	A	A				A	A				
Rear	A	A				A	A				
Right	A	A				A	A				
Left	A	A				A	A				
VCP											
Test Point List	+2 kV	+4 kV	kV	kV	kV	-2 kV	-4 kV	kV	kV	kV	Note
Front	A	A				A	A				
Rear	A	A				A	A				
Right	A	A				A	A				
Left	A	A				A	A				
Additional Note:											
Sign: JEFF											

Discharge : Air Direct 【Nonmetallic Surfaces (Rounded Tip)】											
Times : ☒ least 10 @ 1 PPS ☐ @ 1 PPS											
Test Level/ Acceptance Criteria B											
Test Result											
Test Point List	+2 kV	+4 kV	+8 kV	kV	kV	-2 kV	-4 kV	-8 kV	kV	kV	Note
Front	A	A	A			A	A	A			
Rear	A	A	B			A	A	B			#1
Additional Note: #1 The function of LAN port is degraded during the discharge LAN ports test. PS: Modify I/O Shell. Sign: <u>JEFF</u>											

Discharge : Contact Direct 【Metallic Surfaces (Sharp Tip)】											
Times : ☐ least 10 @ 1 PPS ☒ 25 @ 1 PPS											
Test Level/ Acceptance Criteria B											
Test Result											
Test Point List	+2 kV	+4 kV	kV	kV	kV	-2 kV	-4 kV	kV	kV	kV	Note
Front	A	A				A	A				
Rear	A	B				A	B				#1
Left	A	A				A	A				
Right	A	A				A	A				
Top	A	A				A	A				
Additional Note: #1 The function of LAN port is degraded during the discharge LAN ports test. Modify I/O Shell. Sign: <u>JEFF</u>											

ATTACHMENT 6 - RADIATED SUSCEPTIBILITY IMMUNITY TEST

- **Test Reference:** IEC 61000-4-3 、 EN IEC 61000-4-3 and BS EN IEC 61000-4-3-TC
- **Test Procedure:**

The EUT is set up according to the guidelines of IEC 61000-4-3 、 EN IEC 61000-4-3 and BS EN IEC 61000-4-3-TC for tabletop equipment. Four sides of the EUT are subjected successively to horizontal and vertical electric fields as described below.

 - Frequency range from 80MHz - 1000MHz
 - Step size of 1% of fundamental of linear interpolation between points;
 - 80 % amplitude modulated with a 1kHz sine-wave.
 - With a minimum 3V/m intensity at 2.9 meters
 - Dwell time refer to raw data
 - Frequency range in 1800MHz 、 2600MHz 、 3500MHz and 5000MHz($\pm 1\%$)
 - 80 % amplitude modulated with a 1kHz sine-wave.
 - With a minimum 3V/m intensity at 3.4 meters
 - Dwell time refer to raw data

Video camera monitoring system shall be sufficient to provide visibility of the whole display

- **Required Performance Criteria:**A
- **Test Result:** The EUT meets requirement with Performance Criteria A. No performance degradation detected during this test.
- **Change or Modification:**There is no modification installed by MITAC EMC Laboratory test personnel.
- **Test Raw Data:**Following pages are detailed testing contents

● **Test Equipment:**

Test Equipment	Manufacturer/ Model	Serial No.	Last Calibration Date	Due Date
RF Power Amplifier	AR 500W1000CM1	0359527	---	---
RF Power Amplifier	AR 125S1G6M1	350204	---	---
Antenna	ATL80M1G	332351	---	---
Antenna	AR ATT700M12G	350233	---	---
Signal Generator	Agilent/E4428C	MY47380011	2024/7/26	2025/7/25
Laser Probe	AR FL7006	0327795	2024/6/4	2025/6/3
RF Power Meter	Boonton 4232A	11391	2023/11/13	2024/11/12
Directional coupler	AR/DC7205A	0350045	2024/4/1	2025/3/31
Directional coupler	AR/DC6180	313505	2023/10/23	2024/10/22
Audio analyzer	R&S/UPV	104640	2023/10/24	2024/10/23

Date : 08/15/2024		Report No. : 20240012RS002		Engineer : Jason Wen			
Temperature : 23 °C		Humidity : 54 %		Pressure : 982 mbar			
EUT M/N : MX2-10ADP		EUT info: DVT stage BIOS info: D8920X06 F/W info: n/a PSU info: EA12501J-2400 Rev : n/a		Voltage/ frequency	☒ VAC: 230V / 50Hz		
					☐ ADG-L-500-24: ☐ ADG-L-160-75: ☐ Chroma 62024P-100-50:		
EUT Comment : Full system ; Mode 1.							
Harmonised Standard : ☒ EN 55035:2017+A11:2020 ☒ CISPR 35: 2016 ☒ BS EN 55035:2017+A11:2020							
Basic Standard : ☐ IEC 61000-4-3 / EN IEC 61000-4-3 (Corresponding version) ☒ IEC 61000-4-3 / EN IEC 61000-4-3 (Latest version)							
Dwell Time : ☐ 5 Sec ☒ 3 Sec		Step : ☒ 1 % ☐ %		Test Site: S5			
Power Cord : ☒ One ☐ More than One(single PSU connect to test equipment and other PSUs will NOT connected to supply mains) ☐ More than One(single PSU connect to test equipment and other PSUs will connected to supply mains) ☐ More than One(All PSU connect to test equipment) PSU: ☐ ☐ ☐ ☐ ☐							
Video: ☒ Front ☒ Rear ☐ None Type: ☒ D-Sub x 1 ☐ DVI x ☒ HDMI x 1 ☒ DP x 1 Audio: ☒ Front ☐ Rear ☐ None Type: ☒ audio output ports (G.2.3) ☐ loudspeakers (G.2.8) Measurement method: ☐ Acoustic (G.6.3) ☒ Electrical (G.6.2)							
Angle (°)	Freq. Range (MHz)	Modulation	Test Field (V/m)	Ant. Pol.	Acceptance Criteria	Result Criteria	Note
0	80-1000	80% @1KHz	3	H	A	A	
0	80-1000	80% @1KHz	3	V	A	A	
90	80-1000	80% @1KHz	3	H	A	A	
90	80-1000	80% @1KHz	3	V	A	A	
180	80-1000	80% @1KHz	3	H	A	A	
180	80-1000	80% @1KHz	3	V	A	A	
270	80-1000	80% @1KHz	3	H	A	A	
270	80-1000	80% @1KHz	3	V	A	A	
0	1800,2600,3500,5000 (+/-1%)	80% @1KHz	3	H	A	A	
0	1800,2600,3500,5000 (+/-1%)	80% @1KHz	3	V	A	A	
90	1800,2600,3500,5000 (+/-1%)	80% @1KHz	3	H	A	A	
90	1800,2600,3500,5000 (+/-1%)	80% @1KHz	3	V	A	A	
180	1800,2600,3500,5000 (+/-1%)	80% @1KHz	3	H	A	A	
180	1800,2600,3500,5000 (+/-1%)	80% @1KHz	3	V	A	A	

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270	1800,2600,3500,5000 (+/-1%)	80% @1KHz	3	H	A	A	
270	1800,2600,3500,5000 (+/-1%)	80% @1KHz	3	V	A	A	
Additional Note:							
Sign: <u>Jason Wen</u>							



ATTACHMENT 7 - EFT IMMUNITY TEST

- **Test Reference:** IEC 61000-4-4 、 EN 61000-4-4 and BS EN 61000-4-4
- **Test Procedure:**

The EUT is set up according to the guidelines of IEC 61000-4-4 、 EN 61000-4-4 and BS EN 61000-4-4 for tabletop equipment. The AC line of the EUT is then coupled through a “Capacitive Coupler” using a waveform described in reference standard of a Fast Transient (EFT) generator. Burst signals described below are then introduced into the individual power port 、 signal port and its combinations. The EUT is then monitored and evaluated for results. The burst are specified as follows:

 - 5kHz Repetition frequency, 5ns rise-time, and 50ns pulse width;
 - 300ms burst period;
 - Test levels 1kV(positive and negative bursts) in power port;
 - Test levels 0.5kV(positive and negative bursts) in signal port;
 - Test Duration set to 60 sec.
- **Required Performance Criteria:**B
- **Test Result:** The EUT meets requirement with Performance Criteria B. The function of 2.5G I226-LM#2 port is degraded during the test.
- **Change or Modification:**There is no modification installed by MITAC EMC Laboratory test personnel.
- **Test Raw Data:**Following pages are detailed testing contents
- **Test Equipment:**

Test Equipment	Manufacturer/ Model	Serial No.	Last Calibration Date	Due Date
Surge/EFT/DIP Simulator	EM TEST/ Compact NX5 bspt-1-300-16	P1807214326	2024/4/30	2025/4/29
Capacitive Coupling Clamp	EM Test HFK	001	2024/4/30	2025/4/29

Date : 08/08/2024	Report No. : 20240013EFT005-007	Engineer : JOHN HSIEH					
Temperature : 25 °C	Humidity : 49 %	Pressure : 984 mbar					
EUT M/N : MX2-10ADP	EUT info: DVT stage BIOS info: D8920X06 F/W info: n/a PSU info: EA12501J-2400 version	Voltage/ frequency	☒ VAC: 230V/50Hz ☐ ADC-38052FG: ☐ ADC-100210FG: ☐ Chroma 62024P-100-50:				
EUT Comment : full system , Mode1							
Harmonised Standard : ☒ EN 55035:2017+A11:2020 ☒ CISPR 35: 2016 ☒ BS EN 55035:2017+A11:2020							
Basic Standard : ☐ IEC 61000-4-4 / EN 61000-4-4 (Corresponding version) ☒ IEC 61000-4-4 / EN 61000-4-4 (Latest version)							
Test Equipment : ☒ NX5 ☐ UCS 500N	Test Site: ☐ S2 ☒ S3						
Power Cord : ☒ One ☐ More than One(single PSU connect to test equipment and other PSUs will NOT connected to supply mains) ☐ More than One(single PSU connect to test equipment and other PSUs will connected to supply mains) ☐ More than One(All PSU connect to test equipment) PSU: ☐ ☐ ☐ ☐ ☐							
Video: ☒ Front ☒ Rear ☐ None Type: ☒ D-Sub x 1 ☐ DVI x ☐ HDMI x 1 ☒ DP x 1 Audio: ☒ Front ☐ Rear ☐ None							
Line Under Test	Voltage (KV)	Pol.	Burst Repetition Rate	Test Duration	Acceptance Criteria	Result Criteria	Note
Immunity requirements for AC mains power ports							
L, N, PE, L+N, L+PE, N+PE, L+N+PE	1	+	5KHz	60 Sec	B	A	
L, N, PE, L+N, L+PE, N+PE, L+N+PE	1	-	5KHz	60 Sec	B	A	
Immunity requirements for analogue/digital data ports							
☐ signal/control port (3.1.32) ☐ antenna port (3.1.3) ☒ wired network port (3.1.34) ☐ broadcast receiver tuner port (3.1.8) ☐ optical fibre port (3.1.25) with metallic shielding and/or metallic strain relief member(s)							
I210#1	0.5	+	5KHz	60 Sec	B	A	
I210#1	0.5	-	5KHz	60 Sec	B	A	
I226-LM#2	0.5	+	5KHz	60 Sec	B	B	#1
I226-LM#2	0.5	-	5KHz	60 Sec	B	B	#1
Additional Note: #1 : The function of 2.5G I226-LM#2 port is degraded during the test . Sign: JOHN HSIEH							

ATTACHMENT 8 - SURGE IMMUNITY TEST

- **Test Reference:** IEC 61000-4-5 、 EN 61000-4-5 and BS EN 61000-4-5
- **Test Procedure:**

The EUT is set up according to the guidelines of IEC 61000-4-5 、 EN 61000-4-5 and BS EN 61000-4-5 for tabletop equipment. The AC power cord of the EUT is then plugged into a surge generator. Power surges described below are then introduced to Common Mode(L-G) and Diff. Mode(L-L) .The EUT is then monitored and evaluated for results. The surge pulses are specifies as follows:

 - 1.2 μ s rise-time, 50 μ s hold-time;
 - 5 positive and negative pulsed per combination;
 - Impulse rate refer to raw data
 - Test levels from 0.5kV to 2kV in power port
- **Required Performance Criteria:**B
- **Test Result:** The EUT meets requirement with Performance Criteria A. No performance degradation detected during this test.
- **Change or Modification:**There is no modification installed by MITAC EMC Laboratory test personnel.
- **Test Raw Data:**Following pages are detailed testing contents
- **Test Equipment:**

Test Equipment	Manufacturer/ Model	Serial No.	Last Calibration Date	Due Date
Surge/EFT/DIP Simulator	EM TEST/ Compact NX5 bspt-1-300-16	P1807214326	2024/4/30	2025/4/29

Date : 08/08/2024	Report No. : 20240012SUR005	Engineer : JOHN HSIEH					
Temperature : 25 °C	Humidity : 49 %	Pressure : 984 mbar					
EUT M/N : MX2-10ADP	EUT info: DVT stage BIOS info: D8920X06 F/W info: n/a PSU info: EA12501J-2400 version	Voltage/ frequency	☒ VAC: 230V/50Hz ☐ ADC-38052FG: ☐ ADC-100210FG: ☐ Chroma 62024P-100-50:				
EUT Comment : full system , Mode1							
Harmonised Standard : ☒ EN 55035:2017/A11:2020 ☒ CISPR 35: 2016 ☒ BS EN 55035:2017/A11:2020							
Basic Standard : ☐ IEC 61000-4-5 / EN 61000-4-5 (Corresponding version) ☒ IEC 61000-4-5 / EN 61000-4-5 (Latest version)							
Test Equipment : ☒ NX5 ☐ UCS 500N ☐ CNV 508T5 ☐ CNI 508N2 ☐ CNI 503 ☐ CNI 501AS1						Test Site: ☐ S2 ☒ S3	
Power Cord : ☒ One ☐ More than One(single PSU connect to test equipment and other PSUs will NOT connected to supply mains) ☐ More than One(single PSU connect to test equipment and other PSUs will connected to supply mains) ☐ More than One(All PSU connect to test equipment) PSU: ☐ ☐ ☐ ☐ ☐							
Video: ☒ Front ☒ Rear ☐ None Type: ☒ D-Sub x 1 ☐ DVI x ☒ HDMI x 1 ☒ DP x 1 Audio: ☒ Front ☐ Rear ☐ None							
Line Under Test	Voltage(KV)	Pol.	Angle(°)	Times	Acceptance Criteria	Result Criteria	Note
Immunity requirements for AC mains power ports							
Waveform : 1,2/50 (8/20)							
time between successive impulses: ☐ 1 min ☒ 20 s							
L-N	0.5, 1	+	90	5	B	A	
L-N	0.5, 1	-	270	5	B	A	
L-PE	0.5, 1, 2	+	90	5	B	A	
N-PE	0.5, 1, 2	-	90	5	B	A	
L-PE	0.5, 1, 2	-	270	5	B	A	
N-PE	0.5, 1, 2	+	270	5	B	A	
Additional Note:							
Sign: JOHN HSIEH							

ATTACHMENT 9 - CONDUCTED IMMUNITY TEST

- **Test Reference:** IEC 61000-4-6 、 EN IEC 61000-4-6 and BS EN IEC 61000-4-6-TC
- **Test Procedure:**

The EUT is set up according to the guidelines of IEC 61000-4-6 、 EN IEC 61000-4-6 and BS EN IEC 61000-4-6-TC for tabletop equipment. A CDN is then used to inductively couple the stimulus as described below into the power port and the other providing a return path for the AE. The CDN is also then used to inductively couple the stimulus as described below into the signal port and the other providing a return path for the Power Port. The EUT is then monitored and evaluated for results.

 - Frequency range from 0.15 to 10MHz and additional comprehensive functional test selected
 - Step size of 1% of fundamental of linear interpolation between points;
 - Voltage level of minimum 3Volts (RMS) in the Power Port and Signal Port before adding modulation;
 - 80% amplitude modulated with a 1kHz sine-wave;
 - Dwell time refer to raw data.
 - Frequency range from 10 to 30MHz and additional comprehensive functional test selected
 - Step size of 1% of fundamental of linear interpolation between points;
 - Voltage level of minimum from 3Volts (RMS) to 1Volts(RMS) in the Power Port and Signal Port before adding modulation;
 - 80% amplitude modulated with a 1kHz sine-wave;
 - Dwell time refer to raw data.
 - Frequency range from 30 to 80MHz and additional comprehensive functional test selected
 - Step size of 1% of fundamental of linear interpolation between points;
 - Voltage level of minimum 1Volt (RMS) in the Power Port and Signal Port before adding modulation;
 - 80% amplitude modulated with a 1kHz sine-wave;
 - Dwell time set to to raw data.

Viewing distance no more than 1 meter
- **Required Performance Criteria:**A
- **Test Result:** The EUT meets requirement with Performance Criteria A. No performance degradation detected during this test.
- **Change or Modification:**There is no modification installed by MITAC EMC Laboratory test personnel.
- **Test Raw Data:**Following pages are detailed testing contents

● **Test Equipment:**

Test Equipment	Manufacturer/ Model	Serial No.	Last Calibration Date	Due Date
RF Amplifier	AR 125A250M1	0353501	---	---
Signal Generator	HP 8648C	3847M00995	2023/11/2	2024/11/1
RF Power Meter	Boonton 4242	16723	2023/12/4	2024/12/2
Power Line CDN	FCC/FCC-801-M3-16A	9982	2023/12/5	2024/12/4
CDN	TESEQ/ ISN T8-Cat6	38907	2023/12/19	2024/12/18
Directional coupler	AR/DC2600M1	353486	2023/10/23	2024/10/22
Audio analyzer	R&S/UPV	104886	2024/5/27	2025/5/26

Date : 08/06/2024		Report No. : 20240012CS002		Engineer : Archie Young			
Temperature : 22 °C		Humidity : 56 %		Pressure : 980 mbar			
EUT M/N : MX2-10ADP		EUT info: DVT stage BIOS info:D8920X06 F/W info: n/a PSU info: EA12501J-2400 version		Voltage/ frequency		☒ VAC: 230V/50Hz ☐ ADC-38052FG: ☐ ADC-100210FG: ☐ Chroma 62024P-100-50:	
EUT Comment : Full System.Mode 1							
Harmonised Standard : ☒ EN 55035:2017+A11:2020 ☒ CISPR 35: 2016 ☒ BS EN 55035:2017+A11:2020							
Basic Standard : ☐ IEC 61000-4-6 / EN 61000-4-6 (Corresponding version) ☒ IEC 61000-4-6 / EN IEC 61000-4-6 (Latest version)							
Dwell Time : ☐ 5 Sec ☒ 3 Sec		Step : ☒ 1 % ☐ %		Test Site: S2			
Power Cord : ☒ One ☐ More than One(single PSU connect to test equipment and other PSUs will NOT connected to supply mains) ☐ More than One(single PSU connect to test equipment and other PSUs will connected to supply mains) ☐ More than One(All PSU connect to test equipment) PSU: ☐ ☐ ☐ ☐ ☐							
Video: ☒ Front ☒ Rear ☐ None Type: ☒ D-Sub x 1 ☐ DVI x ☐ HDMI x 1 ☒ DP x 1 Audio: ☒ Front ☐ Rear ☐ None Type: ☒ audio output ports (G.2.3) ☐ loudspeakers (G.2.8) Measurement method: ☒ Acoustic (G.6.3) ☐ Electrical (G.6.2)							
Immunity requirements for analogue/digital data ports ☐ signal/control port (3.1.32) ☐ antenna port (3.1.3) ☒ wired network port (3.1.34) ☐ broadcast receiver tuner port (3.1.8) ☐ optical fibre port (3.1.25) with metallic shielding and/or metallic strain relief member(s)							
Test	Freq. Range (MHz)	Modulation	Test Voltage (r.m.s)	Injection Type	Acceptance Criteria	Result Criteria	Note
I210#1	0.15-10 10-30 30-80	80% @1KHz	3 3 to 1 1	☐ CDN-T8 ☒ CDN-T8 Cat6 (S/N: 38907) ☐ CDN-ST08A (S/N:) ☐ EM Clamp	A	A	LAN:1G
I226-LM#2	0.15-10 10-30 30-80	80% @1KHz	3 3 to 1 1	☐ CDN-T8 ☒ CDN-T8 Cat6 (S/N: 38907) ☐ CDN-ST08A (S/N:) ☐ EM Clamp	A	A	LAN:2.5G
Immunity requirements for ☒ AC mains power ports or ☐ DC network power ports							
Adapter	0.15-10 10-30 30-80	80% @1KHz	3 3 to 1 1	☐ CDN-M2(16A) ☐ CDN-M2(200A) ☒ CDN-M3(16A) ☐ CDN-M3(50A) ☐ CDN-M5(75A) ☐ EM Clamp	A	A	
Additional Note:							
Sign: Archie Young							

ATTACHMENT 10 - POWER FREQUENCY MAGNETIC FIELD TEST

- **Test Reference:** IEC 61000-4-8 、 EN 61000-4-8 and BS EN 61000-4-8
- **Test Procedure:**
The EUT is set up according to the guidelines of IEC 61000-4-8 、 EN 61000-4-8 and BS EN 61000-4-8 for tabletop equipment. For standalone equipment, a calibrated 1 square meter magnetic loop is used to test the EUT in its x, y, and z-axis. A current generator is used to provide power to the magnetic loop and generate the required magnetic field level. The EUT is centered in the loop and then monitored and evaluated for results.

For the floor standing or equipment larger than the loop, the “proximity method” of testing is adopted to accomplish the test. The loop is moved as close as possible to the most probable susceptible areas of the EUT. The EUT is then monitored and evaluated for results

The magnetic field is specified as follows:

- Test levels of 1A/m;
- Dwell time set to 60 sec.
- **Dimension of EUT:**
MX2-10ADP:268.5(W)*246(D)*116.5(H)mm
MX2-10ADP-D:268.5(W)*246(D)*138.5(H)mm
- **Required Performance Criteria:**A
- **Test Result:** The EUT meets requirement with Performance Criteria A. No performance degradation detected during this test.
- **Change or Modification:**There is no modification installed by MITAC EMC Laboratory test personnel.
- **Test Raw Data:**Following pages are detailed testing contents
- **Test Equipment:**

Test Equipment	Manufacturer/ Model	Serial No.	Last Calibration Date	Due Date
Magnetic Field Tester	HAEFELY MAG 100.1	081896-03	2023/10/2	2024/10/1
Voltage Regulator	Single	---	---	---
Magnetic Coil	HAEFELY	---	---	---
Clamp Multimeter	PROVA/CM-01	19360185	2024/2/6	2025/2/5
Magnetic Field meter	F.W.BELL 4090	356926	2022/11/14	2025/11/13

Test Report No.:20240012CAR0A

Prepared for MITAC DIGITAL TECHNOLOGY CORP.

Prepared by MITAC EMC Laboratory

No.200, Wen Hwa 2nd Rd., Guishan Dist., Taoyuan City 33383, Taiwan

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Date : 08/08/2024	Report No. : 20240012MF002	Engineer : JOHN HSIEH			
Temperature : 25 °C	Humidity : 49 %	Pressure : 984 mbar			
EUT M/N : MX2-10ADP	EUT info: DVT stage BIOS info: D8920X06 F/W info: n/a PSU info: EA12501J-2400 version	Voltage/ frequency	☒ VAC: 230V/50Hz		
			☐ ADC-38052FG: ☐ ADC-100210FG: ☐ Chroma 62024P-100-50:		
EUT Comment : full system , Mode1					
Harmonised Standard : ☒ EN 55035:2017+A11:2020 ☒ CISPR 35: 2016 ☒ BS EN 55035:2017+A11:2020 Basic Standard : ☐ IEC 61000-4-8 / EN 61000-4-8 (Corresponding version) ☒ IEC 61000-4-8 / EN 61000-4-8 (Latest version)					Test Site: S3
Power Cord : ☒ One ☐ More than One(single PSU connect to test equipment and other PSUs will NOT connected to supply mains) ☐ More than One(single PSU connect to test equipment and other PSUs will connected to supply mains) ☐ More than One(All PSU connect to test equipment) PSU: ☐ 0 ☐ 1 ☐ 2 ☐ 3 ☐ 4					
Video: ☒ Front ☒ Rear ☐ None Type: ☒ D-Sub x 1 ☐ DVI x ☒ HDMI x 1 ☒ DP x 1 Audio: ☒ Front ☐ Rear ☐ None					
☒ The power frequency magnetic field value of the laboratory shall be at least 20 dB lower than the selected test level.					
Ant. Orientation	Dwell Time (Min)	Current Level (A/m)	Acceptance Criteria	Result Criteria	Note
☒ 50Hz ☐ 60Hz					
X	1	1	A	A	
Y	1	1	A	A	
Z	1	1	A	A	
Additional Note:					
Sign: JOHN HSIEH					

ATTACHMENT 11 - VOLTAGE DIPS, SHORT INTERRUPTION

- **Test Reference:** IEC 61000-4-11 、 EN IEC 61000-4-11 and BS EN IEC 61000-4-11
- **Test Procedure:**
The EUT is set up according to the guidelines of IEC 61000-4-11 、 EN IEC 61000-4-11 and BS EN IEC 61000-4-11 for tabletop equipment. The EUT power cord is then plugged into a power source module capable of performing the desired voltage dips. The test is performed at the maximum and minimum rated EUT operating voltage levels. The voltage level is then dipped to >95% reduction for 0.5 period; dipped to 30% reduction for 25/30 periods; interruption to >95% reduction for 250/300 periods. Three cycles are performed for each test level at a rate of one dip per five minutes. The EUT is then monitored and evaluated for results.
- **Test Result:** The EUT meets test requirements.
- **Change or Modification:** There is no modification installed by MITAC EMC Laboratory test personnel.
- **Test Raw Data:** Following pages are detailed testing contents
- **Test Equipment:**

Test Equipment	Manufacturer/ Model	Serial No.	Last Calibration Date	Due Date
Surge/EFT/DIP Simulator	EM TEST/ Compact NX5 bspt-1-300-16	P1807214326	2024/4/30	2025/4/29

Date : 08/08/2024	Report No. : 20240012DIP001-012	Engineer : JOHN HSIEH				
Temperature : 25 °C	Humidity : 49 %	Pressure : 984 mbar				
EUT M/N : MX2-10ADP	EUT info: DVT stage BIOS info: D8920X06 FW info: n/a PSU info: EA12501J-2400 version					
EUT Comment : full system , Mode1						
Harmonised Standard : ☒ EN 55035:2017+A11:2020 ☒ CISPR 35: 2016 ☒ BS EN 55035:2017+A11:2020 Basic Standard : ☐ IEC 61000-4-11 / EN IEC 61000-4-11 (Corresponding version) ☒ IEC 61000-4-11 / EN IEC 61000-4-11 (Latest version)						
Test Equipment : ☒ NX5 ☐ UCS 500N	Test Site: ☐ S2 ☒ S3					
Power Cord : ☒ One ☐ More than One(single PSU connect to test equipment and other PSUs will NOT connected to supply mains) ☐ More than One(single PSU connect to test equipment and other PSUs will connected to supply mains) ☐ More than One(All PSU connect to test equipment) PSU: ☐ ☐ ☐ ☐ ☐						
Video: ☒ Front ☒ Rear ☐ None Type: ☒ D-Sub x 1 ☐ DVI x ☐ HDMI x 1 ☒ DP x 1 Audio: ☒ Front ☐ Rear ☐ None						
Test	cycles	Angle(°)	Times	Acceptance Criteria	Result Criteria	Note
Highest Voltages: 240V /50Hz						
Voltage dips >95% reduction	0.5	☒ 0 ☐ 90 & 270	3	B	A	
Voltage dips 30% reduction	25	☒ 0 ☐ 90 & 270	3	C	A	
Highest Voltages: 240V /60Hz						
Voltage dips >95% reduction	0.5	☒ 0 ☐ 90 & 270	3	B	A	
Voltage dips 30% reduction	30	☒ 0 ☐ 90 & 270	3	C	A	
Lowest Voltages: 100V /50Hz						
Voltage dips >95% reduction	0.5	☒ 0 ☐ 90 & 270	3	B	A	
Voltage dips 30% reduction	25	☒ 0 ☐ 90 & 270	3	C	C	#1
Lowest Voltages: 100V /60Hz						
Voltage dips >95% reduction	0.5	☒ 0 ☐ 90 & 270	3	B	A	
Voltage dips 30% reduction	30	☒ 0 ☐ 90 & 270	3	C	C	#1
Highest Voltages: 240V /50Hz						
Voltage interruptions >95% reduction	250	☒ 0 ☐ 90 & 270	3	C	C	#1
Highest Voltages: 240V /60Hz						
Voltage interruptions >95% reduction	300	☒ 0 ☐ 90 & 270	3	C	C	#1
Lowest Voltages: 100V /50Hz						
Voltage interruptions >95% reduction	250	☒ 0 ☐ 90 & 270	3	C	C	#1
Lowest Voltages: 100V /60Hz						
Voltage interruptions >95% reduction	300	☒ 0 ☐ 90 & 270	3	C	C	#1
Additional Note: #1 system shutdown Sign: JOHN HSIEH						

Test Report No.:20240012CAR0A

Prepared for MITAC DIGITAL TECHNOLOGY CORP.

Prepared by MITAC EMC Laboratory

No.200, Wen Hwa 2nd Rd., Guishan Dist., Taoyuan City 33383, Taiwan

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PHOTOGRAPHS OF TEST



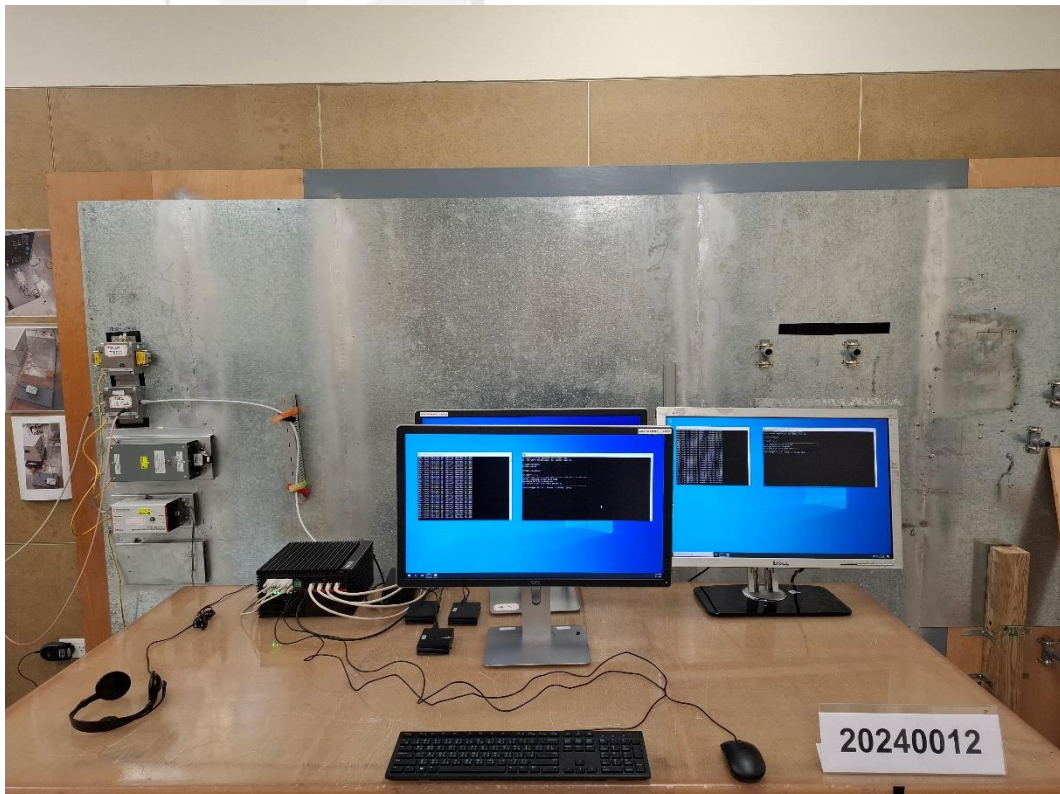
Conducted Emission Test Set up-Front view of Power Port



Conducted Emission Test Set up-Rear view of Power Port



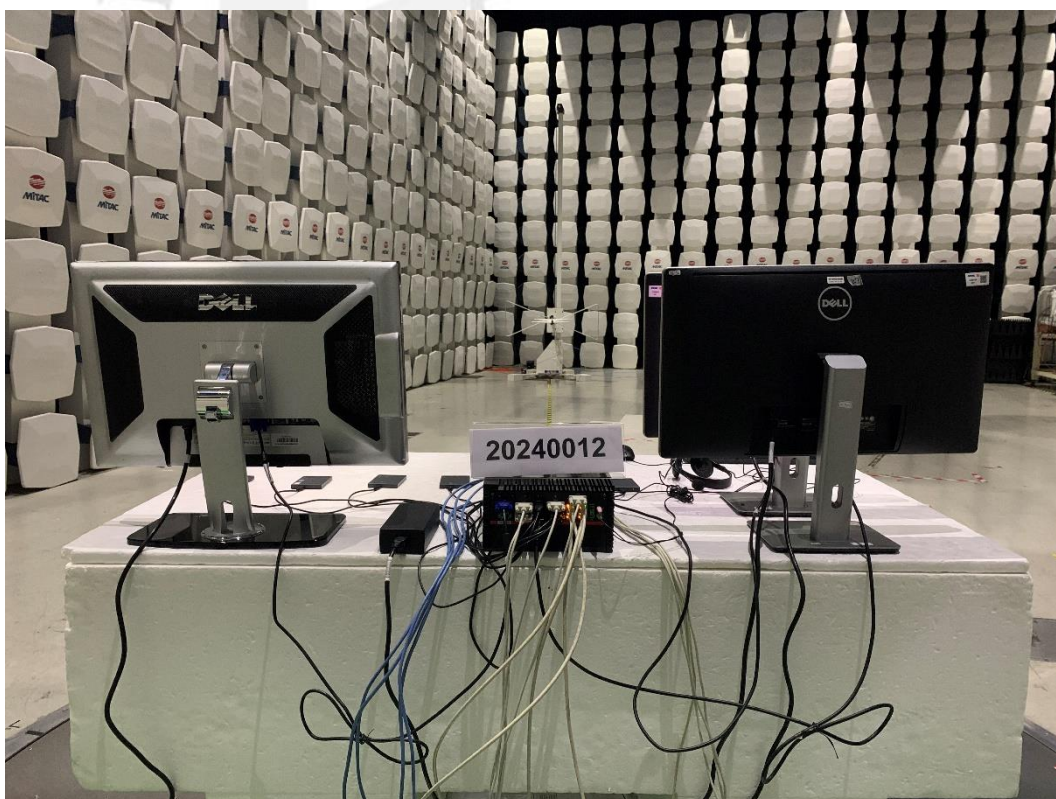
Conducted Emission Test Set up-Asymmetric mode(1Gbps)



Conducted Emission Test Set up-Asymmetric mode(2.5Gbps)



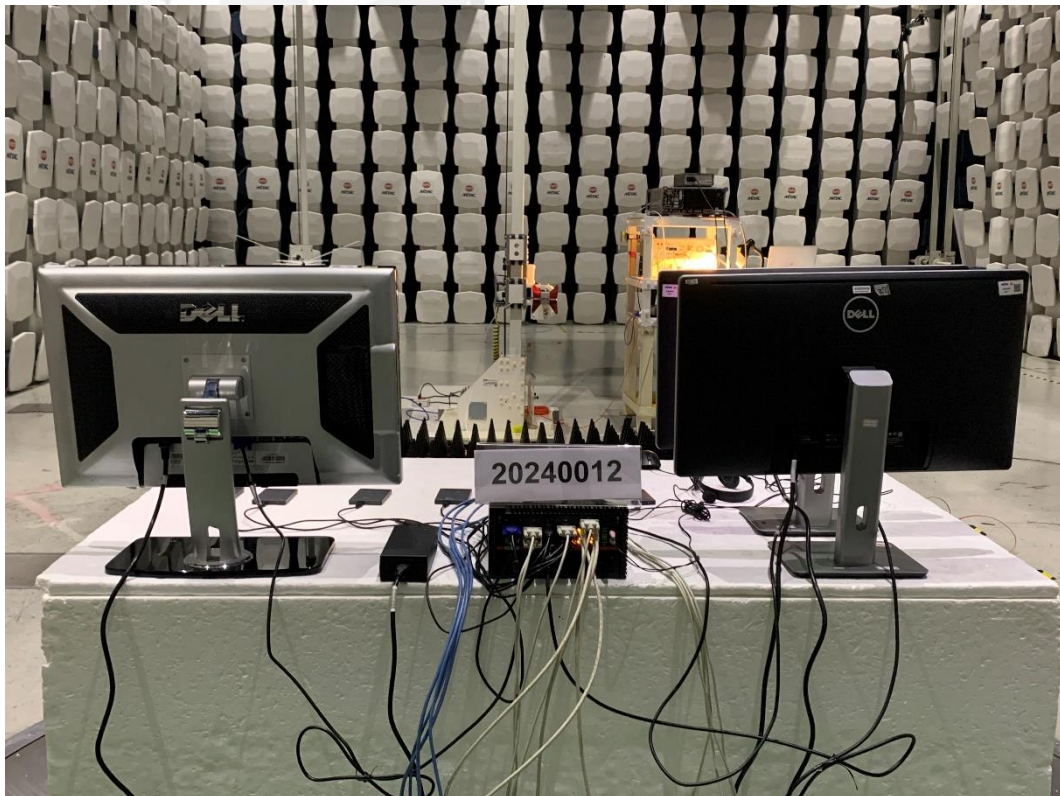
Radiated Emission Test Set up(Below 1GHz)-Front View



Radiated Emission Test Set up(Below 1GHz)-Rear View



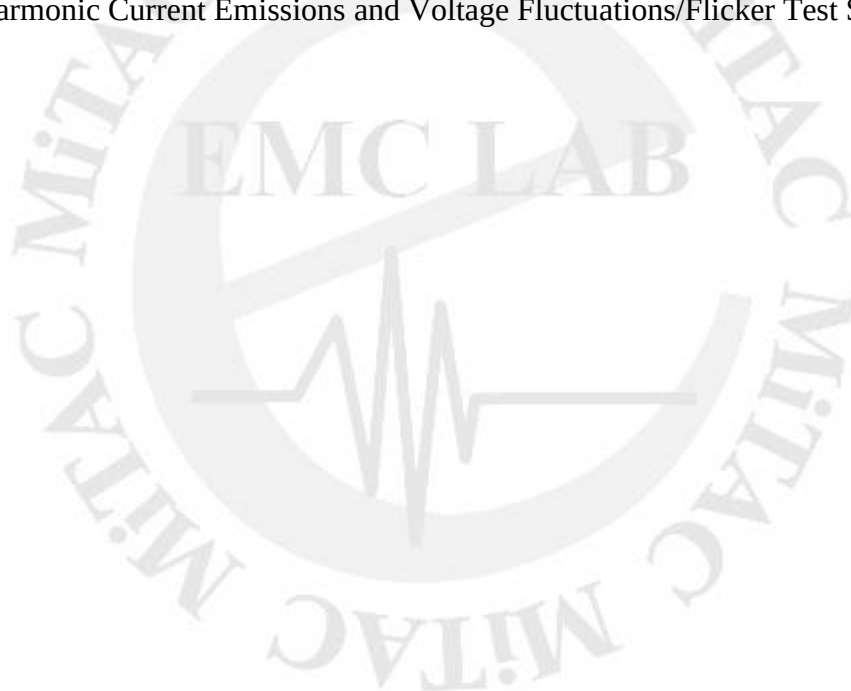
Radiated Emission Test Set up(Above 1GHz)-Front View

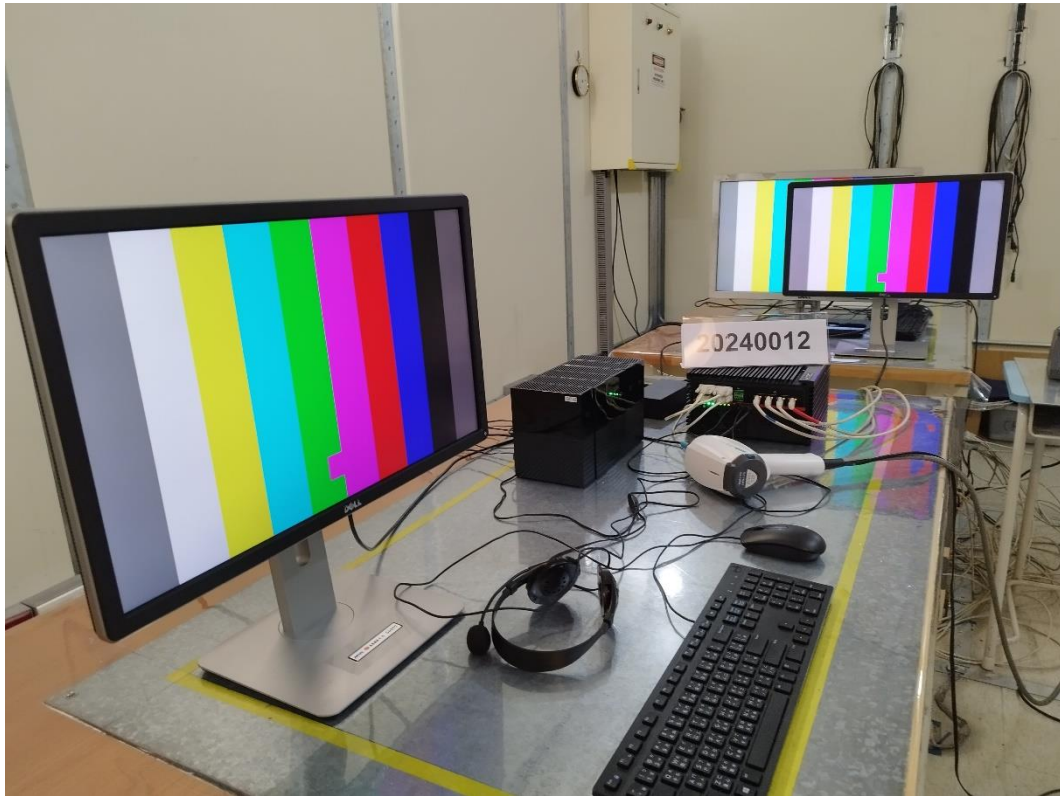


Radiated Emission Test Set up(Above 1GHz)-Rear View



Harmonic Current Emissions and Voltage Fluctuations/Flicker Test Set up





ESD Test Set up-Front View



ESD Test Set up-Rear View



Air and Contact Discharge Test Point-Front View



Air and Contact Discharge Test Point-Rear View



Contact Discharge Test Point-Left View



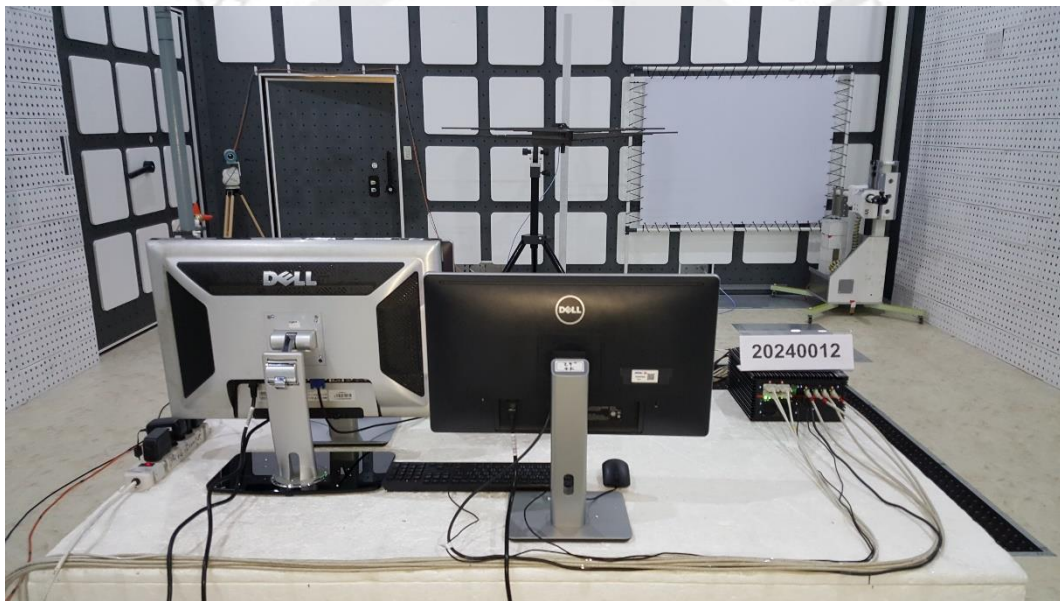
Contact Discharge Test Point-Right View



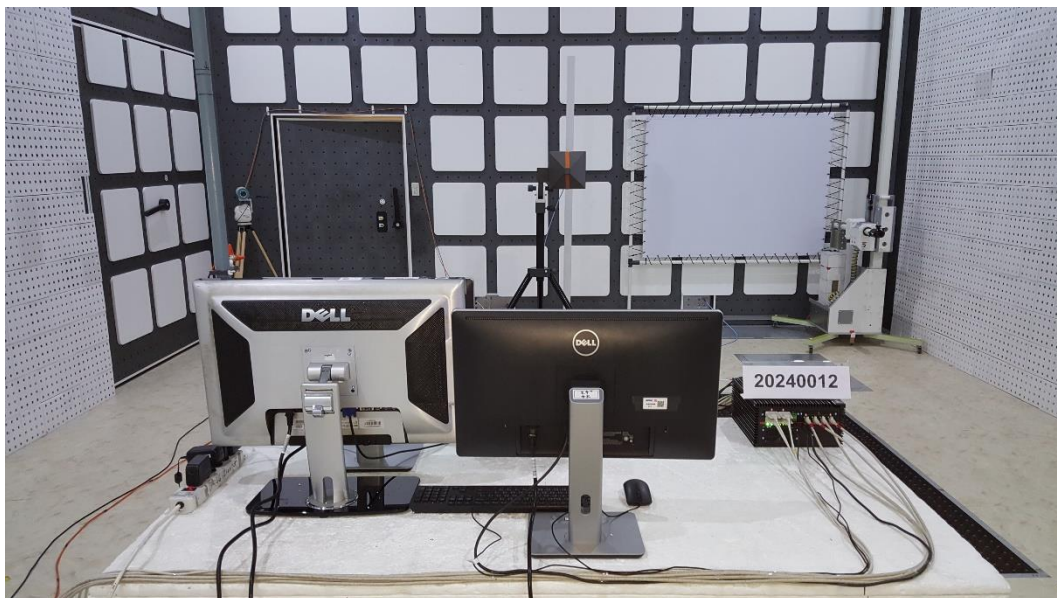
Contact Discharge Test Point-Top View



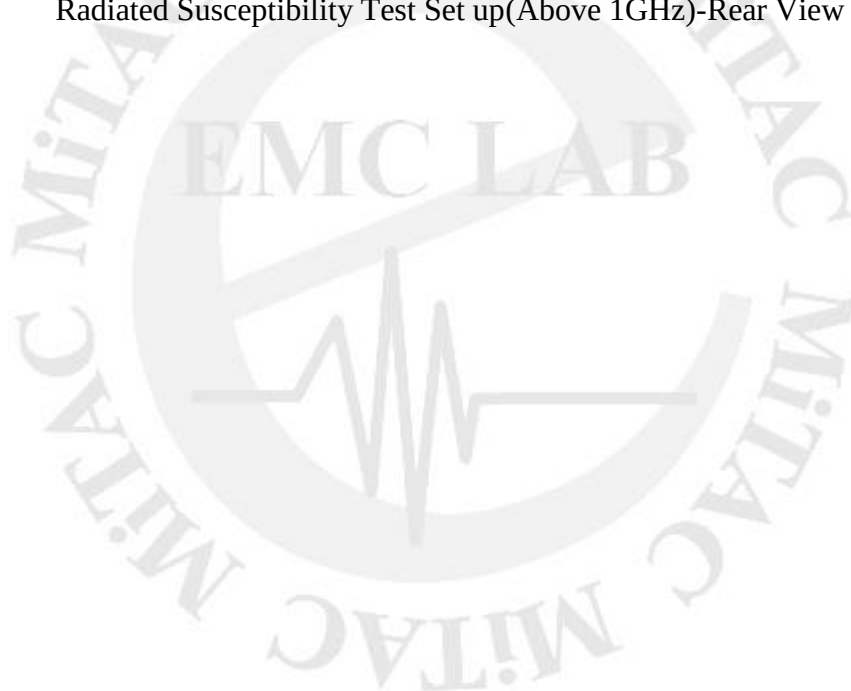
Radiated Susceptibility Test Set up-Front View



Radiated Susceptibility Test Set up(Below 1GHz)-Rear View



Radiated Susceptibility Test Set up(Above 1GHz)-Rear View





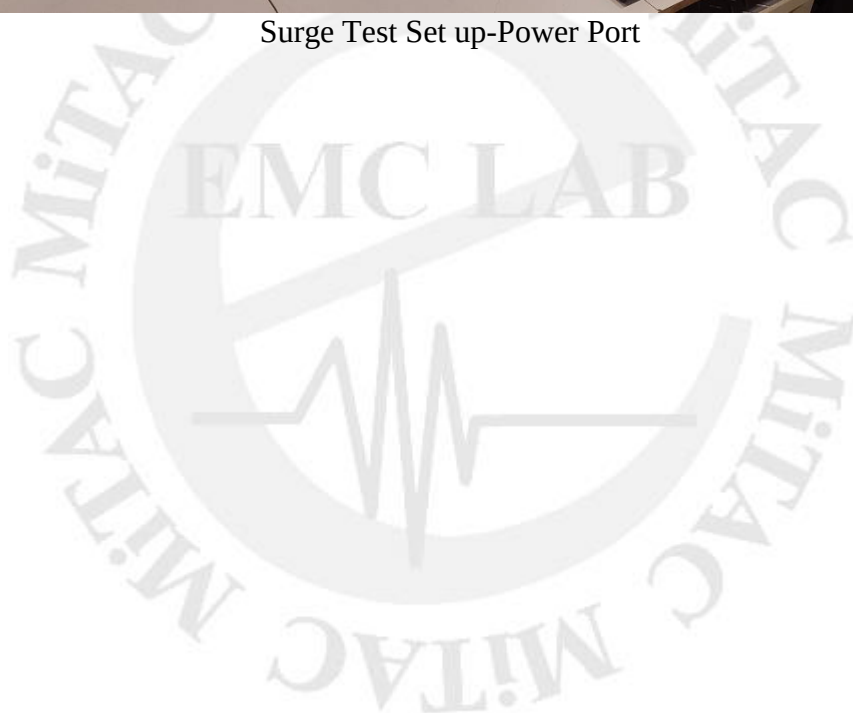
Electrical Fast Transient/Burst Set up-Power Port



Electrical Fast Transient/Burst Set up-Signal Port



Surge Test Set up-Power Port





Conducted Immunity Test Set up-Front View of Power Port



Conducted Immunity Test Set up-Rear View of Power Port



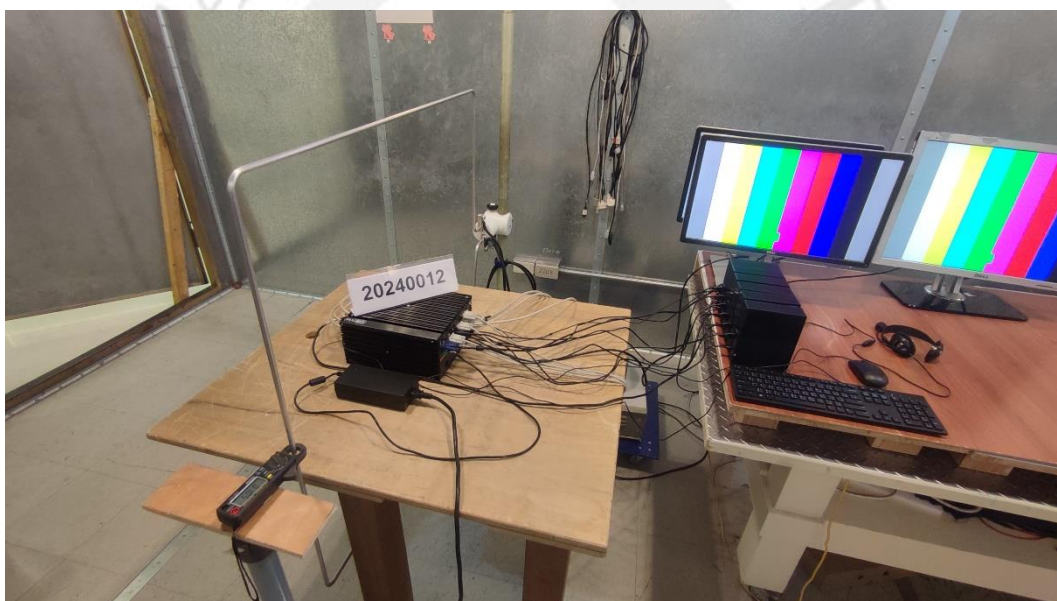
Conducted Immunity Test Set up-Front View of Signal Port



Conducted Immunity Test Set up-Rear View of Signal Port



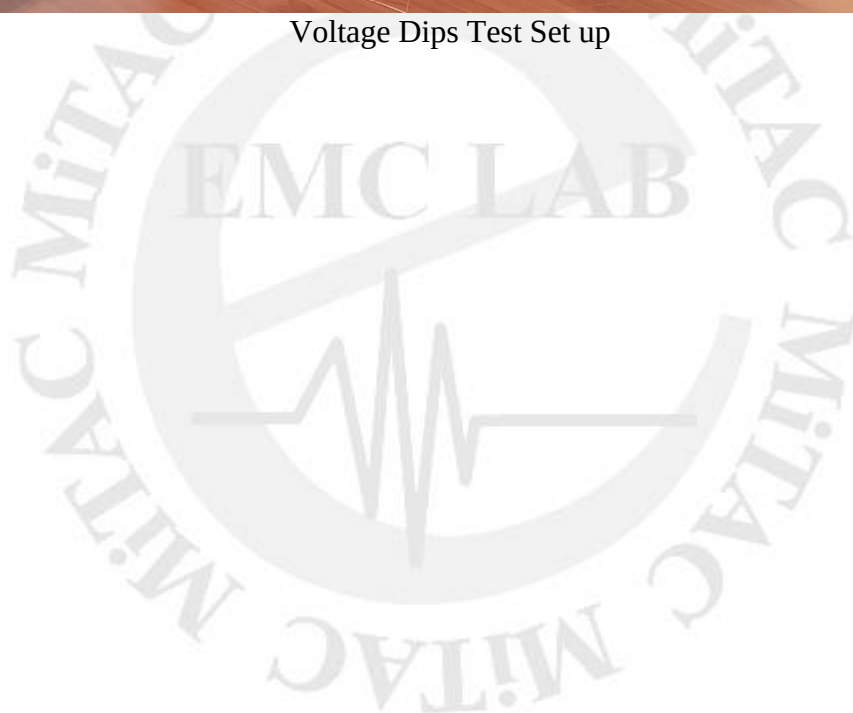
Power Frequency Magnetic Field Test-Horizontal View



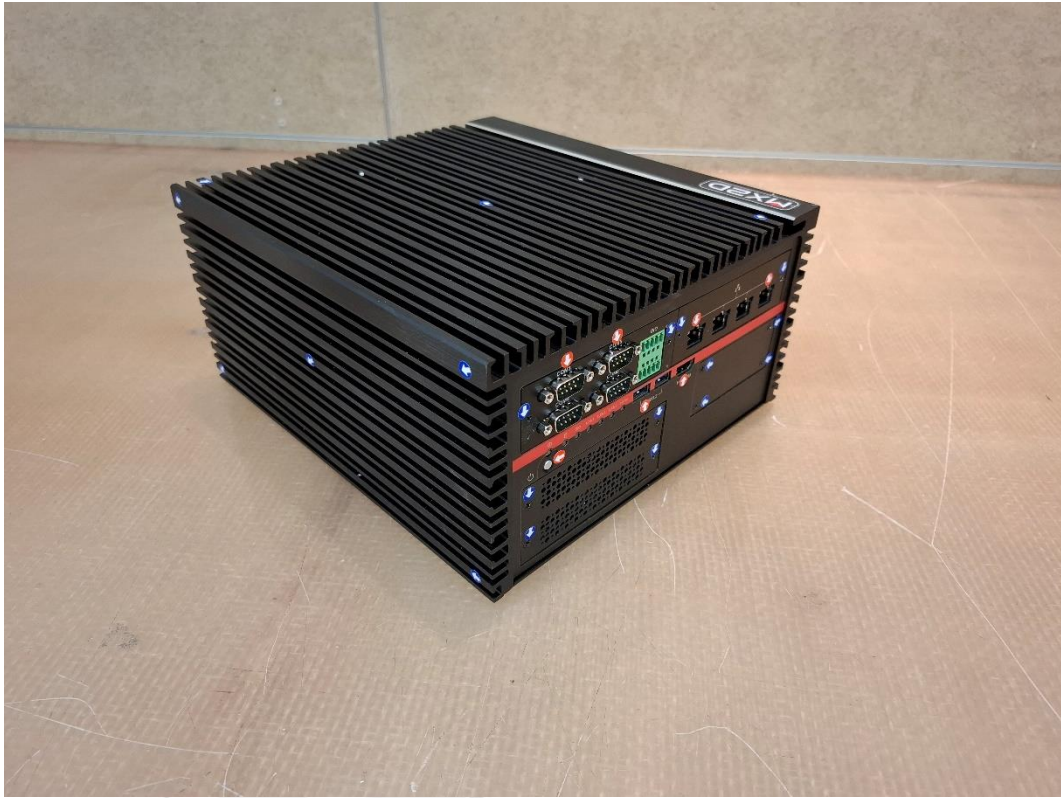
Power Frequency Magnetic Field Test-Vertical View



Voltage Dips Test Set up



PHOTOGRAPHS OF EUT



EUT(Mode 1)-Front View



EUT(Mode 1)-Rear View



EUT(Mode 2)-Front View



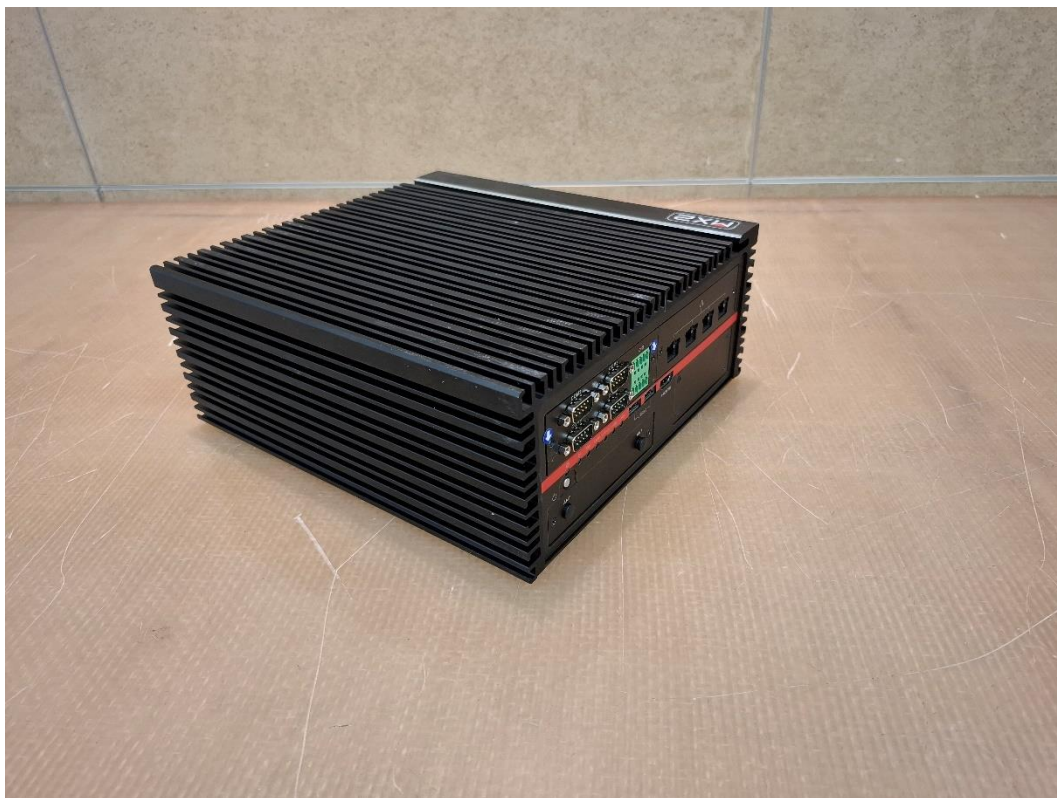
EUT(Mode 2)-Rear View



EUT(Mode 3)-Front Viw



EUT(Mode 3)-Rear View



EUT(Mode 4)-Front View



EUT(Mode 4)-Rear View



IO Ports(Mode 1)-Front View



IO Ports(Mode 1)-Rear View



Serial Number of EUT View

