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EMC TEST REPORT

Dates of Tests: November 15, 2023
Project No: 250731-1170
Test Site : LTA Co., Ltd.

Model No.

AIB-800

APPLICANT

Hanwha Vision Co., Ltd

Equipment Name : AI BOX
Manufacturer : Hanwha Vision Co., Ltd
Model Name : AIB-800
Additional Model Name : AIB-800A
Test Device Serial No.: : Identification
Rule Part(s) : VCCI-CISPR 32:2016

Date of issue : August 04, 2025

This test report is issued under the authority of:

The test was supervised by:

Young Kyu Shin, Technical Manager

Min Su Han, Test Engineer

This test result only responds to the tested sample. It is not allowed to copy this report even partly without the allowance of the test laboratory.

This test report is not related to KS Q ISO/IEC 17025 and KOLAS accreditation.

Revision history

Revision	Date of issue	Test report No.	Description
0	31.10.2023	LR500172310AN	Initial
1	23.11.2023	LR500172311AI	Add gasket tape
2	04.08.2025	LR500172310AN-A1	Add Additional Model name

TABLE OF CONTENTS

1. General information's4

2. Information's about test item5

3. Test Report8

 3.1 Summary of tests8

4. EMISSION.....9

 4.1 Conducted Emissions9

 4.2 Radiated Emissions16

APPENDIX A TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS.....26

APPENDIX B PHOTOGRAPHS28

1. General information's

1-1 Test Performed

Company name : **LTA Co., Ltd**
 Address : 4, Songju-ro 236beon-gil, Yangji-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do, 17159, Korea
 Web site : <http://www.ltalab.com>
 E-mail : chahn@ltalab.com
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Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which “General requirements for the competents of calibration and testing laboratory”.

1-2 Accredited agencies

LTA Co., Ltd. is approved to perform EMC testing by the following agencies:

Agency	Country	Accreditation No.	Validity	Reference
RRA	KOREA		-	RRA accredited Lab.
	U.S.A	KR0049	2027-02-27	
	CANADA		2026-08-05	
VCCI	JAPAN	C-14948	2026-09-10	VCCI registration
		T-12416	2026-09-10	
		R-14483	2026-10-15	
		G-10847	2027-12-13	
KOLAS	KOREA	KT551	2025-10-12	KOLAS accredited Lab.

2. Information's about test item

2-1 Client / Manufacturer

Company name : Hanwha Vision Co., Ltd
Address : 6, Pangyo-ro 319 Beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 13488, KOREA
Telephone /Facsimile : +82-10-2667-4196 / +82-70-7147-8361

Factory #1

Company name : HANWHA VISION VIETNAM COMPANY LIMITED
Address : Lot O-2, Que Vo Industrial Zone Extended Area, Nam Son Ward, Bac Ninh Province, Vietnam

Factory #2

Company name : D-TECH CO.,LTD.
Address : 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do, Korea (Suwon Industrial Complex)

2-2 Equipment Under Test (EUT)

Class : A
Category : AI BOX
Model Name : AIB-800
Additional Model Name : AIB-800A
Serial number : Identification
Date of receipt : November 02, 2023
EUT condition : Pre-production, not damaged
Interface ports : DC IN, LAN, ALARM IN, ALARM OUT, GROUND
Power rating : AC 100 V, 50, 60 Hz

2-3 Modification

- gasket tape inside / Material: gasket tape (model name: N/A, manufacturer: N/A, number: 1 EA)

2-4 Test conditions

Temp. / Humid. : (20 - 21) °C / (40 ~ 45) % R.H.
Tested Model : AIB-800
Test mode : Operating mode
Test Voltage : AC 100 V, 50, 60 Hz

2-5 List of EUT and ACCESSORY

EUT				
Equipment Name	Model Name	Serial No.	Manufacturer	Remarks
AI BOX	AIB-800	ZTZC70G WA0000JH	HANWHA VISION VIETNAM COMPANY LIMITED D-TECH CO.,LTD.	EUT
Adapter	KPL-048F-VI	N/A	Channel Well Technology(Guangzhou) Co.,Ltd.	EUT
ACCESSORY				
Equipment Name	Model Name	Serial No.	Manufacturer	Remarks
MONITOR	AM24MB	N/A	ATEC	-
Mouse	MOKJUO	34O04812	Primax Electronics Ltd.	-
ALARM JIG #1	N/A	N/A	N/A	-
ALARM JIG #2	N/A	N/A	N/A	-
IP Camera	LND-6032R	ZNDJ6V4M 90000CM	HANWHA TECHWIN CO.,LTD.	-
NVR	XRN-1620S/TE	ZSV66V4T9 0002JB	HANWHA VISION VIETNAM COMPANY LIMITED D-TECH CO.,LTD.	-

Cable List					
From		To		Length (m)	Shielding
Type	I/O Port	Type	I/O Port		
EUT	DC IN	Adapter	DC OUT	1.0	NO
	LAN	NVR	LAN #1	3.0	NO
	ALARM IN	ALARM ZIG #1	-	1.0	NO
	ALARM OUT	ALARM ZIG #2	-	1.0	NO
	GROUND	GROUND	GROUND	1.4	NO
Adapter	AC IN	AC POWER SOURCE	AC OUT	1.9	NO
NVR	AC IN	AC POWER SOURCE	AC OUT	2.0	NO
	LAN #2	IP Camera	LAN	3.0	NO
	HDMI	MONITOR	HDMI	1.4	YES
	USB	Mouse	-	1.0	NO
MONITOR	AC IN	AC POWER SOURCE	AC OUT	1.6	NO

3. Test Report

3.1 Summary of tests

Parameter	Applied Standard	Status
I. Emission		
Conducted Emissions	VCCI-CISPR 32:2016	C
Conducted Emissions at telecommunication ports	VCCI-CISPR 32:2016	C
Radiated Emissions	VCCI-CISPR 32:2016	C
Radiated Emissions at above 1 GHz	VCCI-CISPR 32:2016	C

Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable

Note 2: The data in this test report are traceable to the national or international standards.

4. EMISSION

4.1 Conducted Emissions

Definition:

The test assesses the ability of the EUT to limit its internal noise from being present on the AC mains Power In/Output/Telecommunication ports.

We were performed the test according to LTA procedure LTA-QI-04.

Test method	: VCCI-CISPR 32:2016
Measurement Frequency range	: 150 kHz - 30 MHz
Measurement RBW	: 9 kHz
Test Location	: Shielded Room
Test mode	: Operating mode
Result	: Complies

Measurement Data:

- Refer to the Next page (Maximum emission configuration)

A sample calculation:

COR. F (correction factor)= LISN Insertion loss + Cable loss + Pulse Limiter Factor

Emission Level= meter reading + COR.F

Limits for Conducted Emissions at the mains ports of class A ITE

Frequency Range	Quasi-peak	Average
(0.15 - 0.5) MHz	79 dB μ V	66 dB μ V
(0.5 – 30) MHz	73 dB μ V	60 dB μ V

Note: The limits will decrease with the frequency logarithmically within 0.15MHz to 0.5MHz

Limits for Conducted Emissions at the mains ports of class B ITE

Frequency Range	Quasi-peak	Average
(0.15 – 0.5) MHz	(66 – 56) dB μ V	(56 - 46) dB μ V
(0.5 – 5) MHz	56 dB μ V	46 dB μ V
(5 – 30) MHz	60 dB μ V	50 dB μ V

Note: The limits will decrease with the frequency logarithmically within 0.15 MHz to 0.5 MHz

Limits of conducted common mode (asymmetric mode) disturbance at telecommunication ports in the frequency range 0.15 MHz to 30 MHz for class A equipment

Frequency Range	Voltage limits		Current limits	
	Quasi-peak	Average	Quasi-peak	Average
(0.15 - 0.5) MHz	(97 – 87) dB μ V	(84 – 74) dB μ V	(53 – 43) dB μ V	(40 – 30) dB μ V
(0.5 – 30) MHz	87 dB μ V	74 dB μ V	43 dB μ V	30 dB μ V

Note 1: The limits decrease linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Note 2: The current and voltage disturbance limits are derived for use with an impedance stabilization network (ISN) which presents a common mode (asymmetric mode) impedance of 150 Ω to the telecommunication port under test (conversion factor is $20 \log_{10} 150/I = 44$ dB)

Limits of conducted common mode (asymmetric mode) disturbance at telecommunication ports in the frequency range 0.15 MHz to 30 MHz for class B equipment

Frequency Range	Voltage limits		Current limits	
	Quasi-peak	Average	Quasi-peak	Average
(0.15 - 0.5) MHz	(84 – 74) dB μ V	(74 – 64) dB μ V	(40 – 30) dB μ V	(30 – 20) dB μ V
(0.5 – 30) MHz	74 dB μ V	64 dB μ V	30 dB μ V	20 dB μ V

Note 1: The limits decrease linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

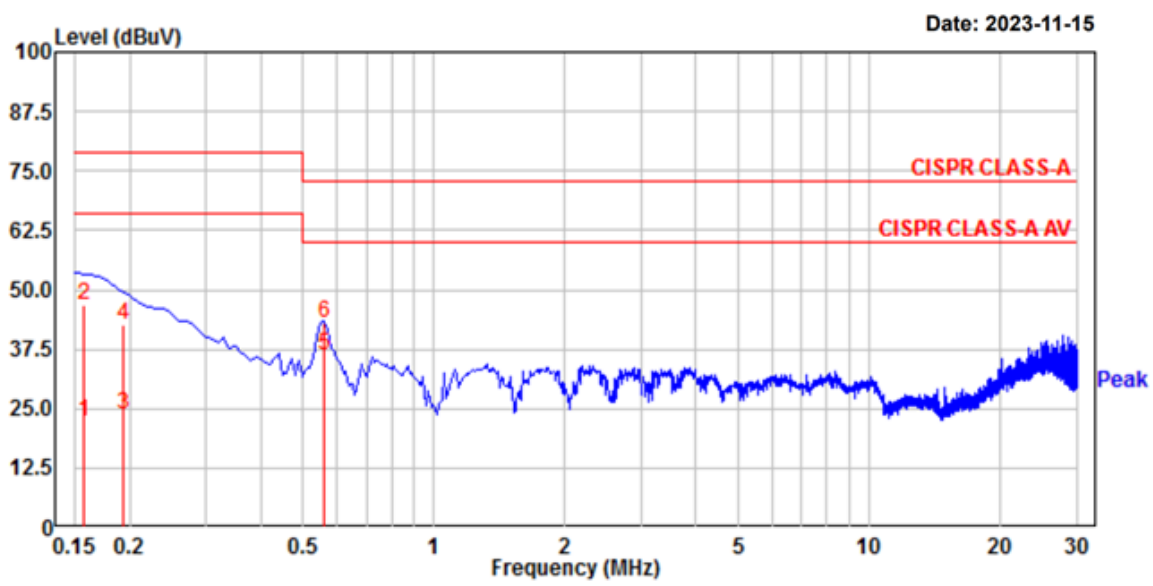
Note 2: The current and voltage disturbance limits are derived for use with an impedance stabilization network (ISN) which presents a common mode (asymmetric mode) impedance of 150 Ω to the telecommunication port under test (conversion factor is $20 \log_{10} 150/I = 44$ dB)

Conducted Emissions (LINE) / 50 Hz



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Project No.	: 231102-0012	Phase	: Line
Test Mode	: Operating	Test Power	: AC 100 V / 50 Hz
Temp./ Humi.	: 20 'C / 40 % R.H.	Test Engineer	: HAN M S



No.	Freq MHz	RD QP dBμV	RD AV dBμV	C.F dB	Result QP dBμV	Result AV dBμV	Limit QP dBμV	Limit AV dBμV	Margin QP dB	Margin AV dB	Phase
2.	0.157	27.28	2.71	19.41	46.69	22.12	79.00	66.00	32.31	43.88	Line
4.	0.194	23.17	4.19	19.41	42.58	23.60	79.00	66.00	36.42	42.40	Line
6.	0.557	23.72	16.66	19.44	43.16	36.10	73.00	60.00	29.84	23.90	Line

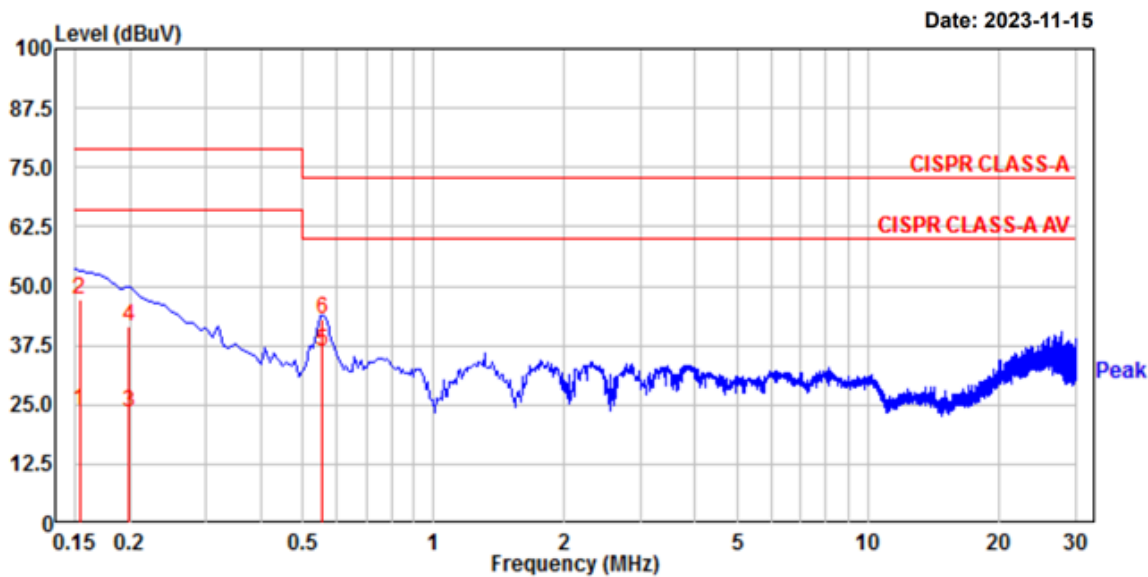
Remarks: C.F (Correction Factor) = Insertion loss + Cable loss + Pulse Limiter

Conducted Emissions (NEUTRAL) / 50 Hz



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Project No.	: 231102-0012	Phase	: Neutral
Test Mode	: Operating	Test Power	: AC 100 V / 50 Hz
Temp./ Humi.	: 20 'C / 40 % R.H.	Test Engineer	: HAN M S



No.	Freq MHz	RD QP dBuV	RD AV dBuV	C.F dB	Result QP dBuV	Result AV dBuV	Limit QP dBuV	Limit AV dBuV	Margin QP dB	Margin AV dB	Phase
2.	0.153	27.88	4.23	19.40	47.28	23.63	79.00	66.00	31.72	42.37	neutral
4.	0.200	22.30	4.18	19.40	41.70	23.58	79.00	66.00	37.30	42.42	neutral
6.	0.557	23.72	16.82	19.43	43.15	36.25	73.00	60.00	29.85	23.75	neutral

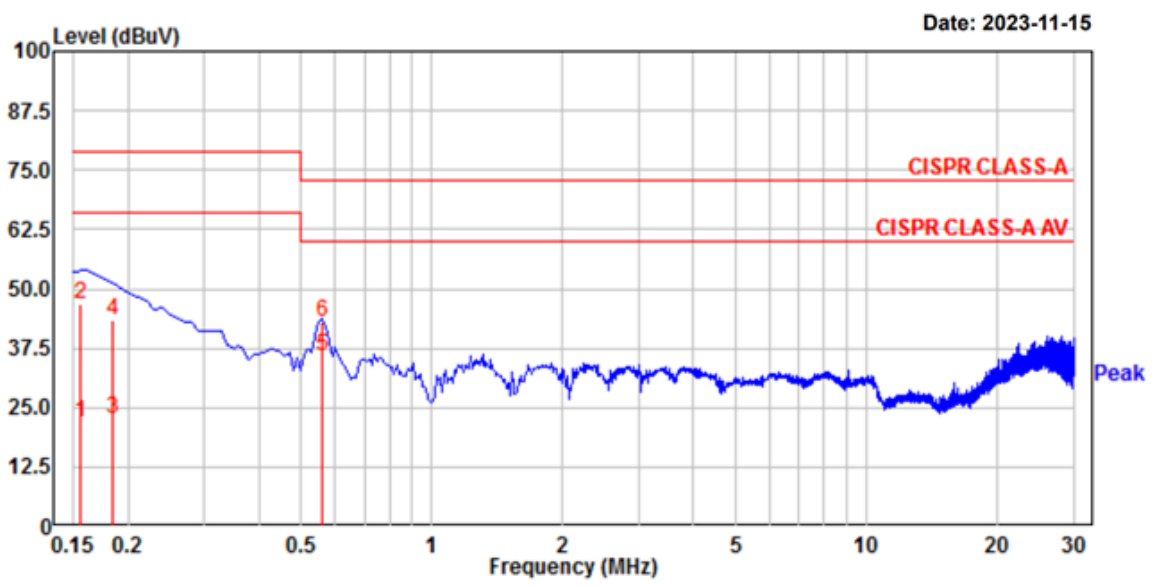
Remarks: C.F (Correction Factor) = Insertion loss + Cable loss + Pulse Limiter

Conducted Emissions (LINE) / 60 Hz



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Project No.	: 231102-0012	Phase	: Line
Test Mode	: Operating	Test Power	: AC 100 V / 60 Hz
Temp./ Humi.	: 20 'C / 40 % R.H.	Test Engineer	: HAN M S



No.	Freq MHz	RD QP dBuV	RD AV dBuV	C.F dB	Result QP dBuV	Result AV dBuV	Limit QP dBuV	Limit AV dBuV	Margin QP dB	Margin AV dB	Phase
2.	0.156	27.35	2.62	19.41	46.76	22.03	79.00	66.00	32.24	43.97	Line
4.	0.185	23.93	3.34	19.41	43.34	22.75	79.00	66.00	35.66	43.25	Line
6.	0.558	23.68	16.58	19.44	43.12	36.02	73.00	60.00	29.88	23.98	Line

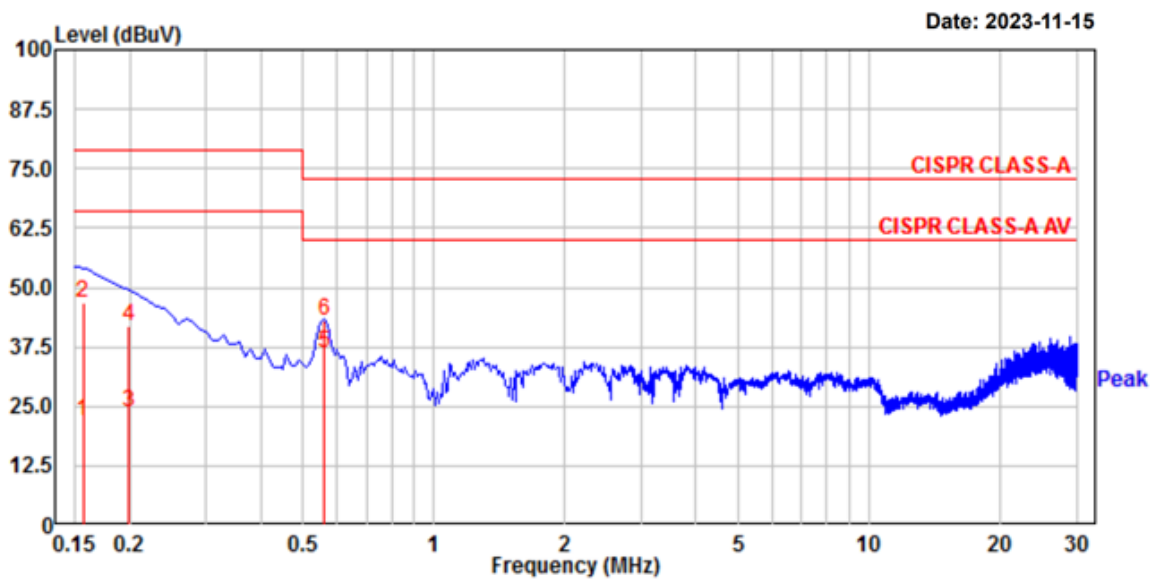
Remarks: C.F (Correction Factor) = Insertion loss + Cable loss + Pulse Limiter

Conducted Emissions (NEUTRAL) / 60 Hz



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Project No.	: 231102-0012	Phase	: Neutral
Test Mode	: Operating	Test Power	: AC 100 V / 60 Hz
Temp./ Humi.	: 20 'C / 40 % R.H.	Test Engineer	: HAN M S



No.	Freq MHz	RD QP dBμV	RD AV dBμV	C.F dB	Result QP dBμV	Result AV dBμV	Limit QP dBμV	Limit AV dBμV	Margin QP dB	Margin AV dB	Phase
2.	0.156	27.53	2.66	19.40	46.93	22.06	79.00	66.00	32.07	43.94	neutral
4.	0.200	22.56	4.32	19.40	41.96	23.72	79.00	66.00	37.04	42.28	neutral
6.	0.557	23.64	16.68	19.43	43.07	36.11	73.00	60.00	29.93	23.89	neutral

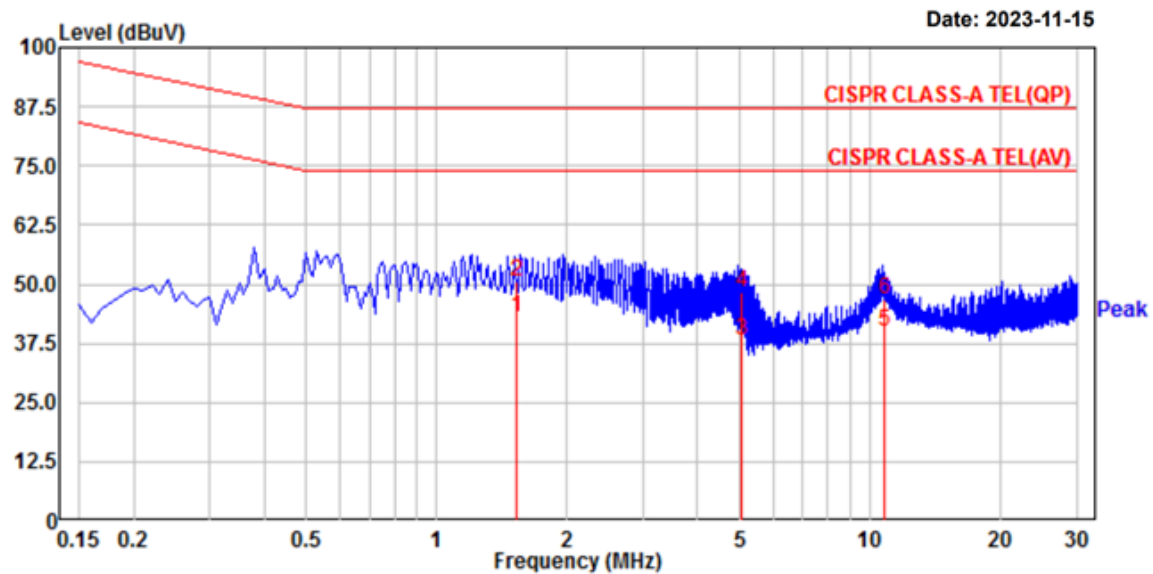
Remarks: C.F (Correction Factor) = Insertion loss + Cable loss + Pulse Limiter

Conducted Emissions (TEL_1000 M)



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Project No.	: 231102-0012	Phase	: TEL_1000M
Test Mode	: Operating	Test Power	: AC 220 V / 60 Hz
Temp./ Humi.	: 20 'C / 40 % R.H.	Test Engineer	: HAN M S



No.	Freq MHz	RD QP dBμV	RD AV dBμV	C.F dB	Result QP dBμV	Result AV dBμV	Limit QP dBμV	Limit AV dBμV	Margin QP dB	Margin AV dB	Phase
2.	1.533	31.51	23.72	19.23	50.74	42.95	87.00	74.00	36.26	31.05	Line
4.	5.032	28.88	18.98	19.26	48.14	38.24	87.00	74.00	38.86	35.76	Line
6.	10.821	27.34	20.64	19.42	46.76	40.06	87.00	74.00	40.24	33.94	Line

Remarks: C.F (Correction Factor) = Insertion loss + Cable loss + Pulse Limiter

4.2 Radiated Emissions

Definition:

The test assesses the ability of ancillary equipment to limit their internal noise from being radiated from the enclosure.

We were performed the test according to LTA procedure LTA-QI-04.

Test method	: VCCI-CISPR 32:2016
Measuring Distance	: 10 m below 1 GHz / 3 m above 1 GHz
Measurement Frequency range	: 30 MHz – 6 000 MHz
Measurement RBW	: 120 kHz @ 10 m / 1 MHz @ 3 m
Test Location	: 10 m Chamber
Test mode	: Operating mode
Result	: Complies

Measurement Data:

- Refer to the Next page (Maximum emission configuration)
- The highest internal source of an EUT is higher than 108 MHz, the measurement shall only be made up to 6 GHz.

A sample calculation:

COR. F (correction factor)= Antenna factor + Cable loss- Amp.gain- Distance correction

Emission Level= meter reading + COR.F

Limit of 10 m below 1 GHz

CLASS A

Frequency Range	Quasi-peak
(30 – 230) MHz	40 dB μ V/m
(230 – 1 000) MHz	47 dB μ V/m

CLASS B

Frequency Range	Quasi-peak
(30 – 230) MHz	30 dB μ V/m
(230 – 1 000) MHz	37 dB μ V/m

Limit of 3m above 1 GHz

CLASS A

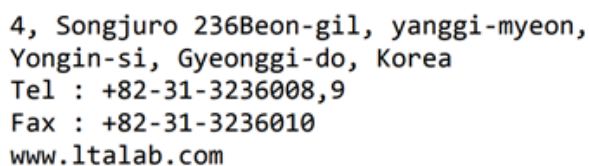
Frequency Range	Average Limit @ 3m (dB μ V/m)	Peak limit @ 3m (dB μ V/m)
(1 000 – 3 000) MHz	56	76
(3 000 – 6 000) MHz	60	80

NOTE: The lower limit applies at the transition frequency.

CLASS B

Frequency Range	Average Limit @ 3m (dB μ V/m)	Peak limit @ 3m (dB μ V/m)
(1 000 – 3 000) MHz	50	70
(3 000 – 6 000) MHz	54	74

NOTE: The lower limit applies at the transition frequency.



Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

Radiated Emissions (Below 1 GHz) / V / 50 Hz

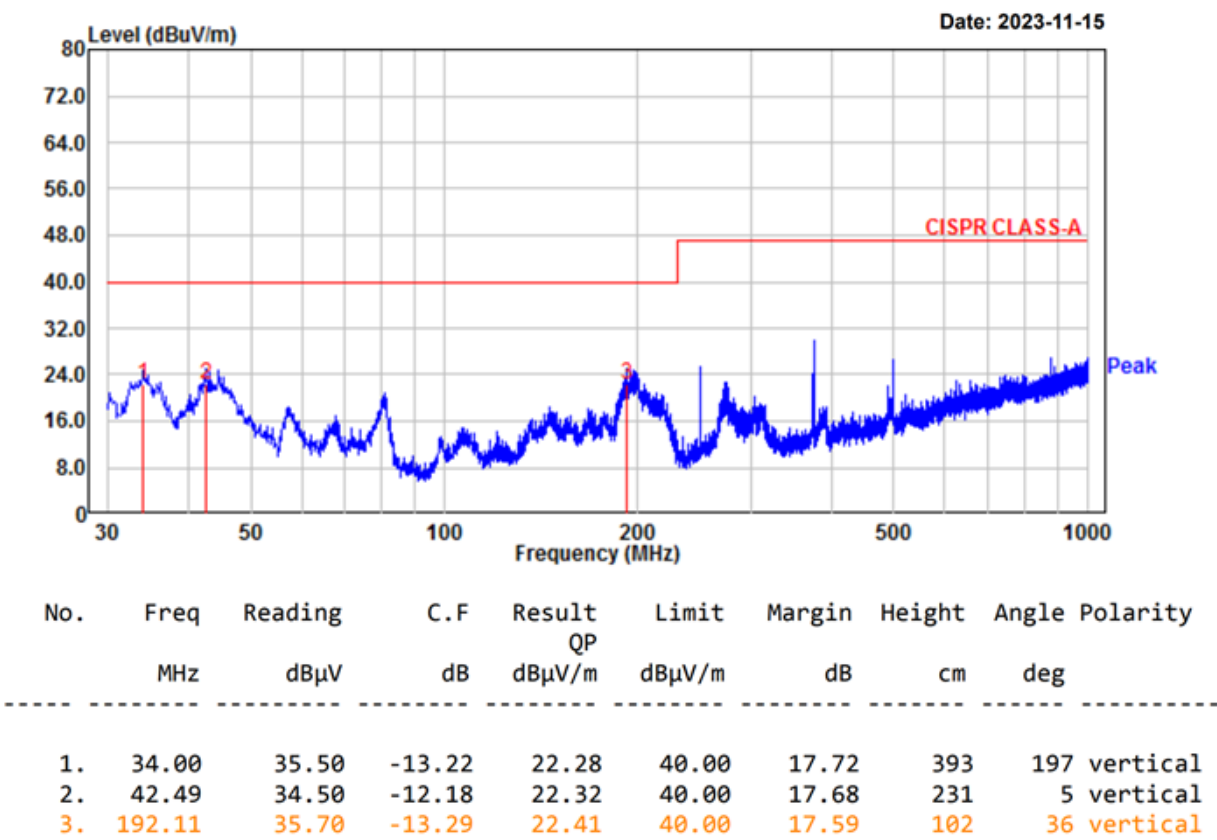


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Project No. : 231102-0012 Temp/Humi: 21 'C / 45 % R.H.

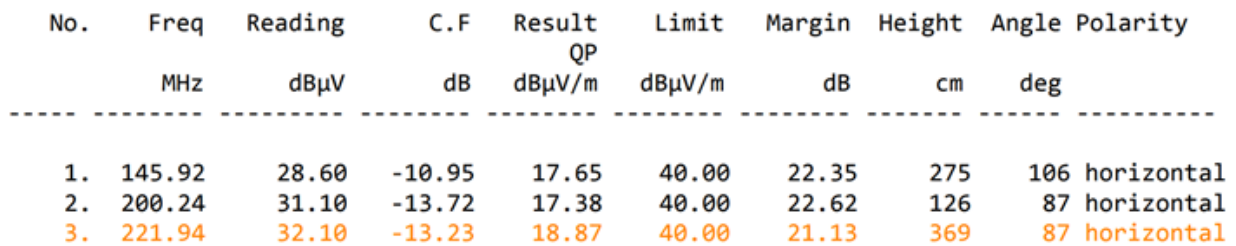
Test Mode : Operating Tested by: HAN M S

Power : AC 100 V / 50 Hz



Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

Test Mode	: Operating	Tested by: HAN M S
Power	: AC 100 V / 60 Hz	

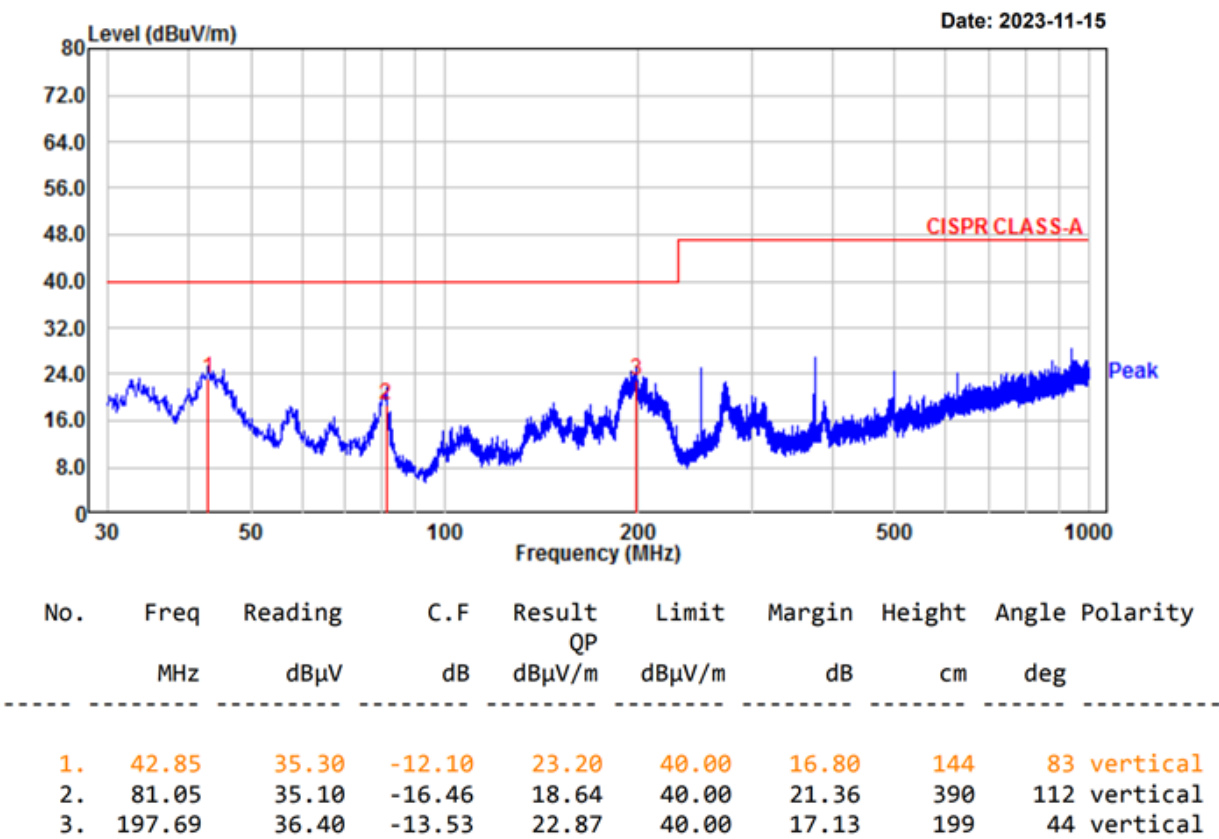


Radiated Emissions (Below 1 GHz) / V / 60 Hz



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Project No.	: 231102-0012	Temp/Humi:	21 'C / 45 % R.H.
Test Mode	: Operating	Tested by:	HAN M S
Power	: AC 100 V / 60 Hz		



Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

Radiated Emissions (Above 1 GHz) / H / 50 Hz



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Project No. : 231102-0012

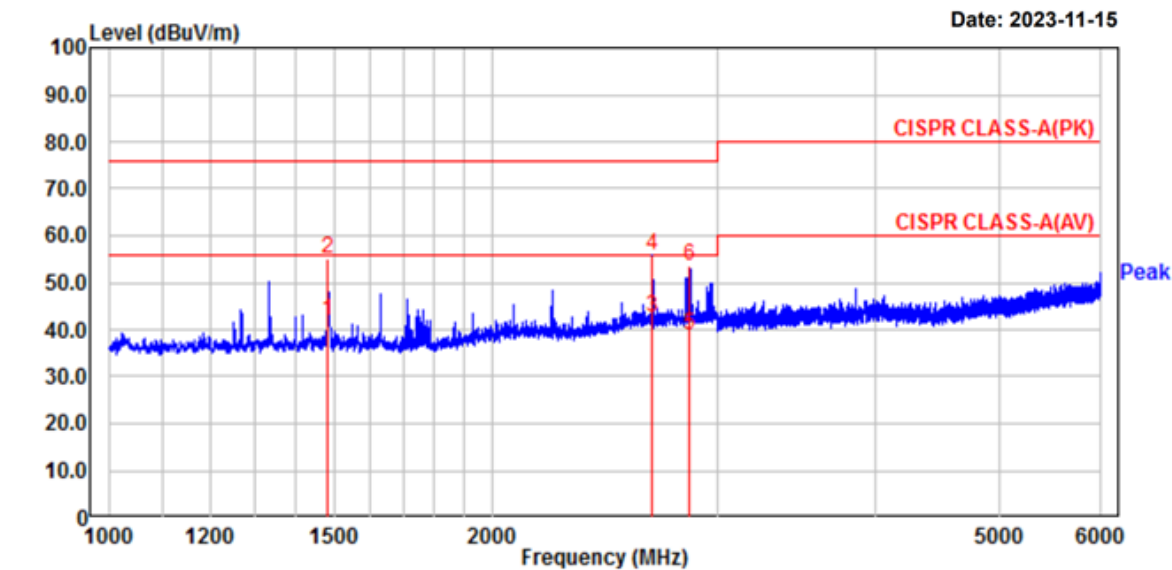
Temp/Humi: 21 'C / 45 % R.H.

Test Mode : Operating

Tested by: HAN M S

Power : AC 100 V / 50 Hz

Measure distance : 4.3 m



No.	Freq MHz	RD	RD	C.F	Result	Result	Limit	Limit	Margin	Margin	Height	Angle	Polarity
		PK dBµV	AV dBµV		PK dBµV	AV dBµV	PK dBµV	AV dBµV					
2.	1483.13	56.90	44.00	-1.95	54.95	42.05	76.00	56.00	21.05	13.95	100	205	horizontal
4.	2670.00	49.71	36.21	6.26	55.97	42.47	76.00	56.00	20.03	13.53	100	165	horizontal
6.	2856.88	46.70	32.10	6.75	53.45	38.85	76.00	56.00	22.55	17.15	100	126	horizontal

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss + Measure distance - Preamp gain

Radiated Emissions (Above 1 GHz) / V / 50 Hz



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Project No. : 231102-0012

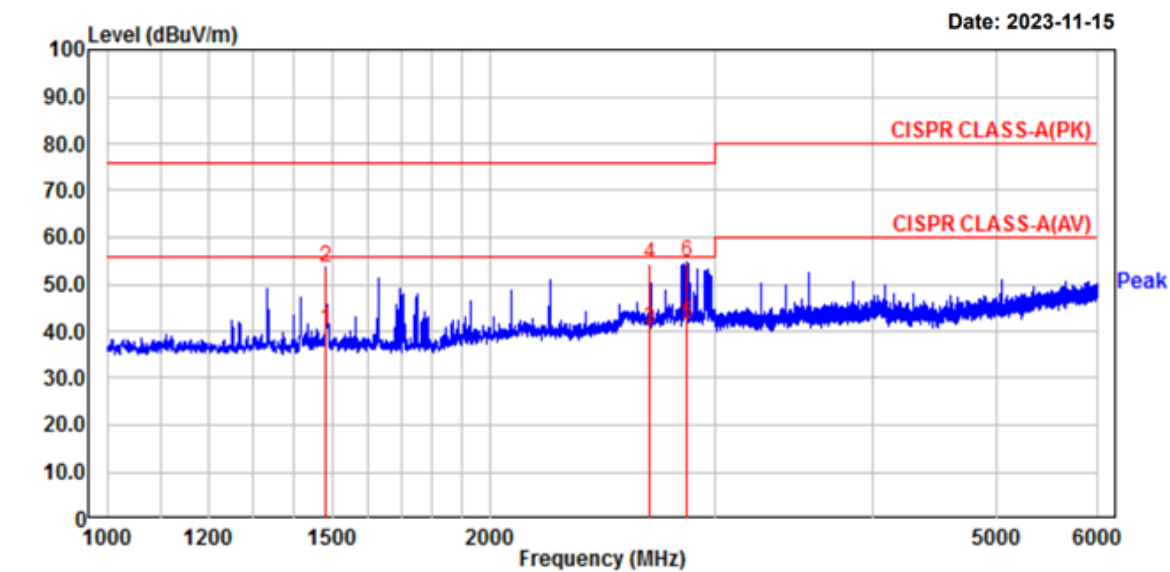
Temp/Humi: 21 'C / 45 % R.H.

Test Mode : Operating

Tested by: HAN M S

Power : AC 100 V / 50 Hz

Measure distance : 4.3 m



No.	Freq MHz	RD		C.F	Result		Limit		Margin		Height	Angle	Polarity
		PK dBμV	AV dBμV		PK dBμV	AV dBμV	PK dBμV	AV dBμV	PK dB	AV dB			
2.	1482.50	55.49	42.29	-1.95	53.54	40.34	76.00	56.00	22.46	15.66	100	215	vertical
4.	2670.63	47.90	34.00	6.27	54.17	40.27	76.00	56.00	21.83	15.73	100	94	vertical
6.	2851.88	48.00	34.80	6.73	54.73	41.53	76.00	56.00	21.27	14.47	100	272	vertical

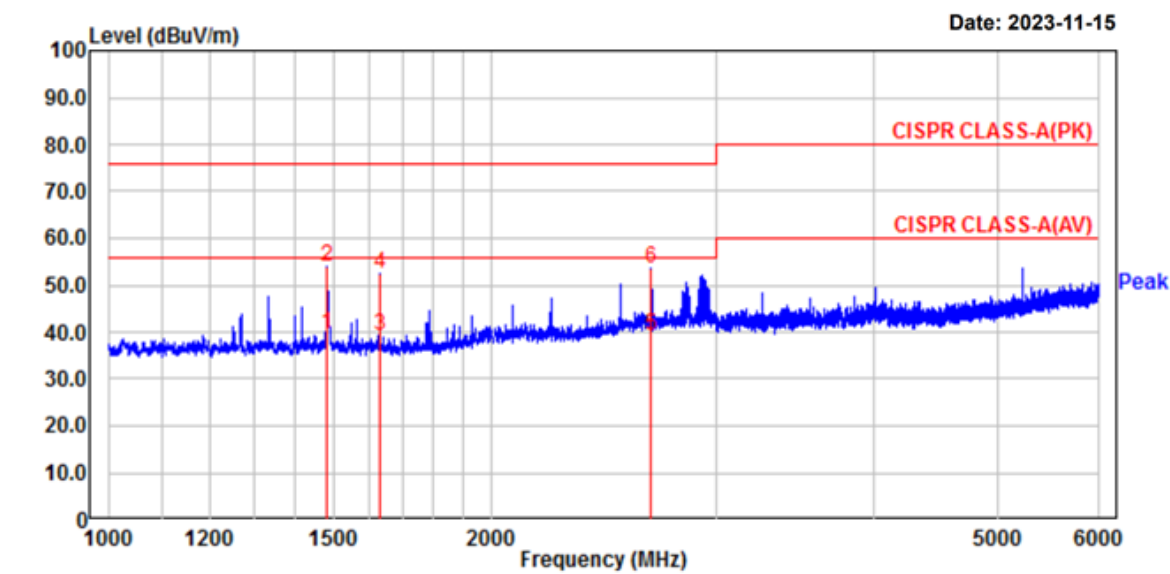
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss + Measure distance - Preamp gain

Radiated Emissions (Above 1 GHz) / H / 60 Hz



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Project No.	: 231102-0012	Temp/Humi:	21 'C / 45 % R.H.
Test Mode	: Operating	Tested by:	HAN M S
Power	: AC 100 V / 60 Hz	Measure distance :	4.3 m



No.	Freq	RD	RD	C.F	Result	Result	Limit	Limit	Margin	Margin	Height	Angle	Polarity
	MHz	PK	AV	dB	PK	AV	PK	AV	PK	AV	cm	deg	
2.	1483.13	56.10	41.70	-1.95	54.15	39.75	76.00	56.00	21.85	16.25	100	261	horizontal
4.	1631.88	54.30	40.90	-1.72	52.58	39.18	76.00	56.00	23.42	16.82	100	110	horizontal
6.	2670.00	47.51	32.91	6.26	53.77	39.17	76.00	56.00	22.23	16.83	100	166	horizontal

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss + Measure distance - Preamp gain

Radiated Emissions (Above 1 GHz) / V / 60 Hz



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Project No. : 231102-0012

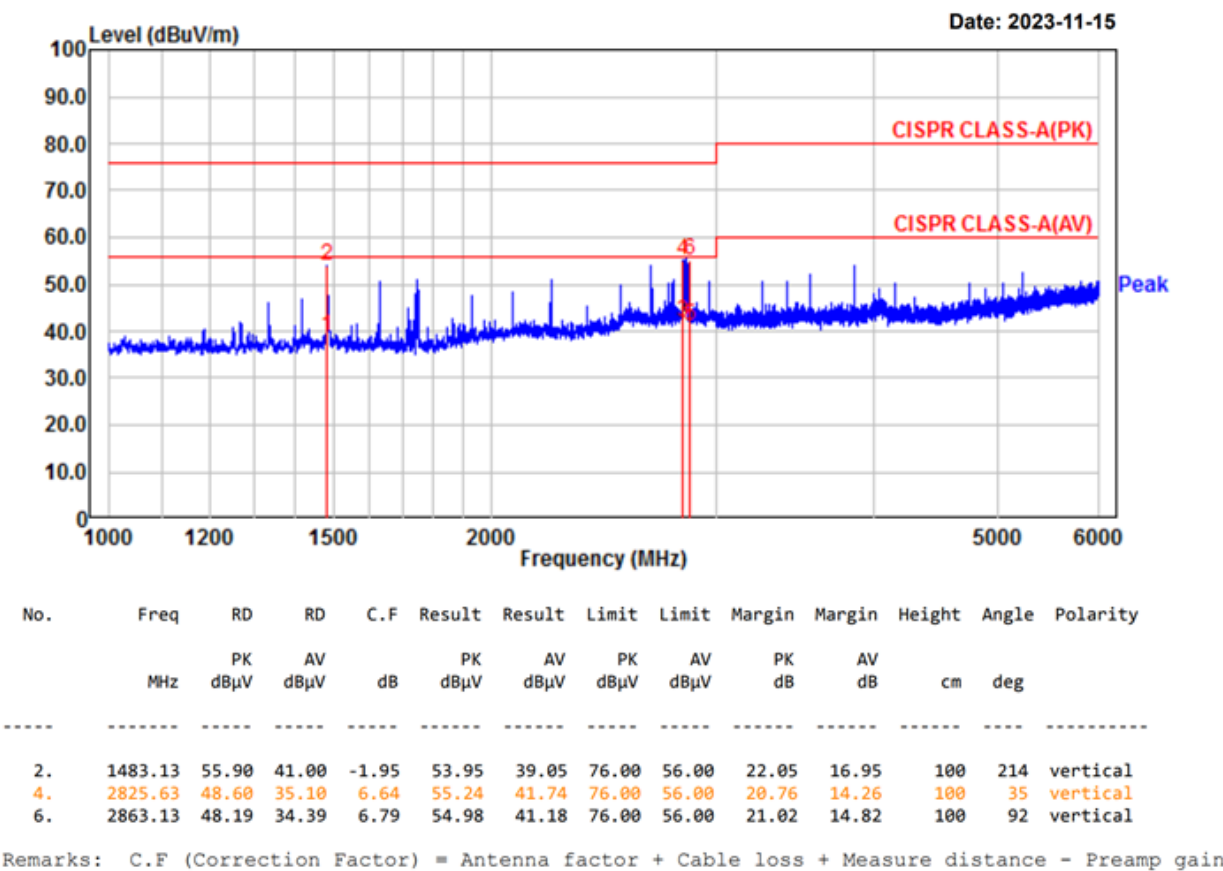
Temp/Humi: 21 'C / 45 % R.H.

Test Mode : Operating

Tested by: HAN M S

Power : AC 100 V / 60 Hz

Measure distance : 4.3 m



APPENDIX A

TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment are identified by the Test Laboratory.

Conducted Emissions

	Item	Model Name	Manufacturer	Serial No.	Next Cal.	Interval
☒	EMI TEST Receiver	ESR	Rohde & Schwarz	101499	2024.03.13	1 year
☒	Pulse Limiter	ESH3-Z2	Rohde & Schwarz	100710	2024.03.13	1 year
☐	ISN	ISN T800	TESEQ	27109	2024.08.17	1 year
☒	ISN	ENY81-CA6	Rohde & Schwarz	101565	2024.08.17	1 year
☐	ISN	ISN S8	Schwarzbeck	79	2024.08.17	1 year
☐	CURRENT PROBE	EZ-17	Rohde & Schwarz	100508	2024.08.23	1 year
☐	CDN	TSCDN-C1-BNC-75	F.C.C	07004	2024.03.13	1 year
☐	LISN	ESH3-Z6	Rohde & Schwarz	100378	2024.08.22	1 year
☐	LISN	ESH3-Z6	Rohde & Schwarz	101468	2024.08.22	1 year
☒	LISN(main)	ENV216	Rohde & Schwarz	102872	2024.09.07	1 year
☒	LISN(sub)	LT32C/10	AFJ	32031518210	2024.08.22	1 year
☒	TEST PROGRAM	e3_ce 20181212a (V9)	AUDIX	-	-	-

Radiated Emissions – Below 1 GHz

	Item	Model Name	Manufacturer	Serial No.	Next Cal.	Interval
☒	EMI TEST Receiver	ESCI7	Rohde & Schwarz	100772	2024.08.22	1 year
☒	Amplifier	8447D	HP	1937A03453	2024.08.22	1 year
☒	BILOG Antenna	VULB 9168	SCHWARZBECK	749	2025.03.29	2 year
☒	TEST PROGRAM	e3 20181212a (V9)	AUDIX	-	-	-

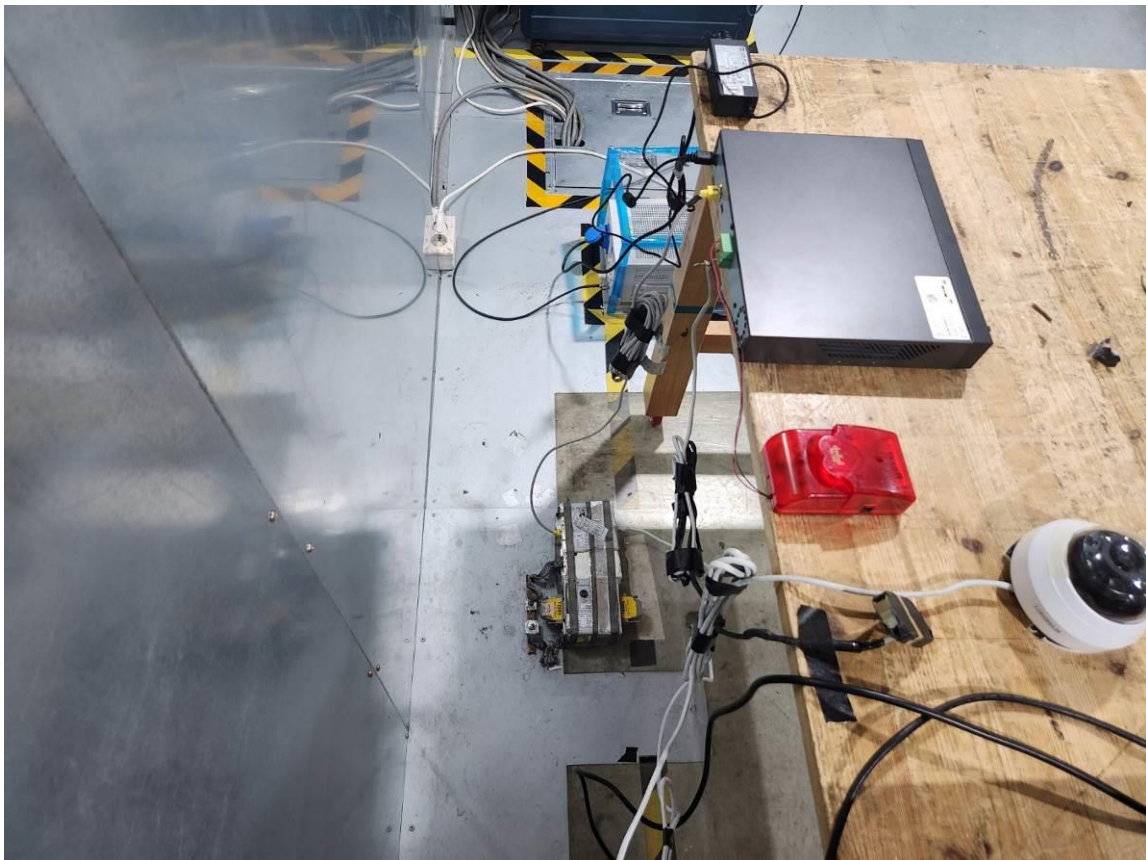
Radiated Emissions – Above 1 GHz

	Item	Model Name	Manufacturer	Serial No.	Next Cal.	Interval
☒	EMI TEST Receiver	ESCI7	Rohde & Schwarz	100772	2024.08.22	1 year
☐	EMI TEST Receiver	ESU	Rohde & Schwarz	100092	2024.08.22	1 year
☒	Amplifier	8449B	Agilent	3008A02126	2024.03.14	1 year
☐	Amplifier	PAM-840A	COM-POWER	461314	2024.03.15	1 year
☐	HORN ANTENNA	3116B	ETS	133350	2024.03.22	1 year
☐	HORN ANTENNA	3116B	ETS	81109	2024.04.25	1 year
☒	HORN ANTENNA	3115	ETS	114105	2024.04.20	1 year
☒	TEST PROGRAM	e3 20181212a (V9)	AUDIX	-	-	-

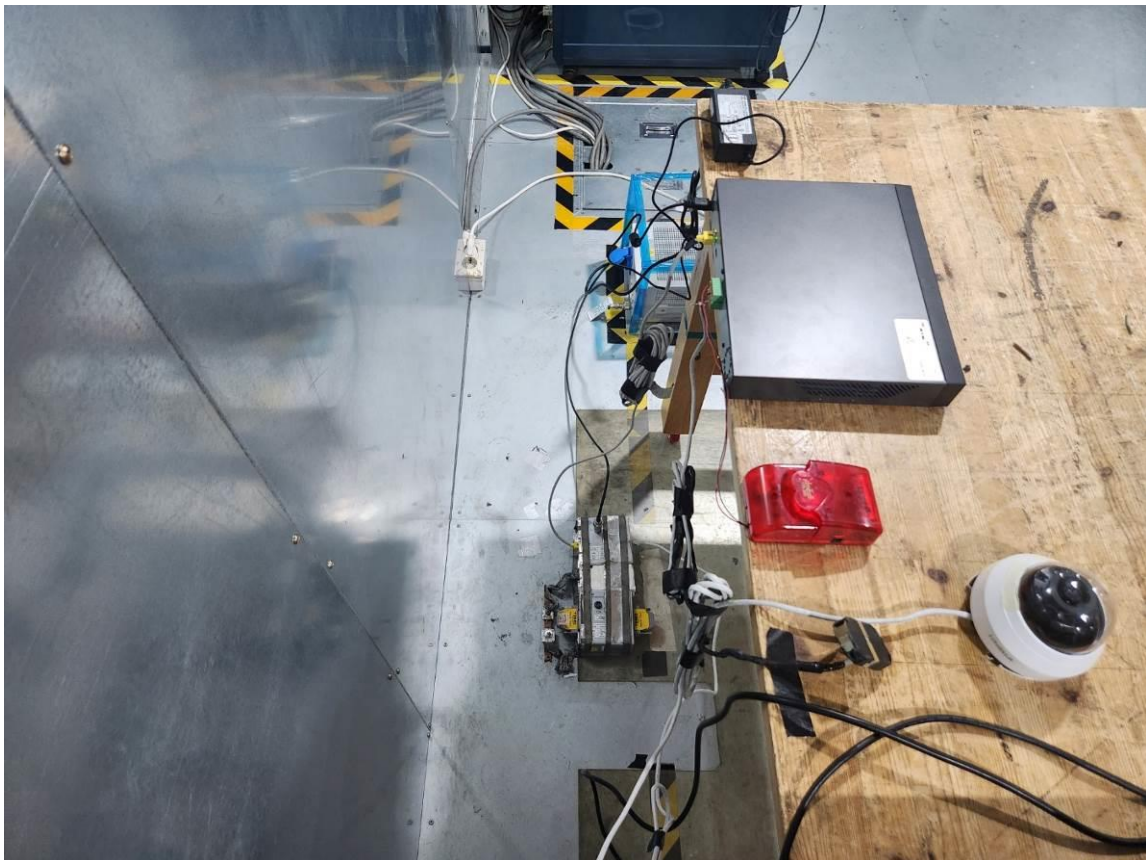
APPENDIX B

PHOTOGRAPHS

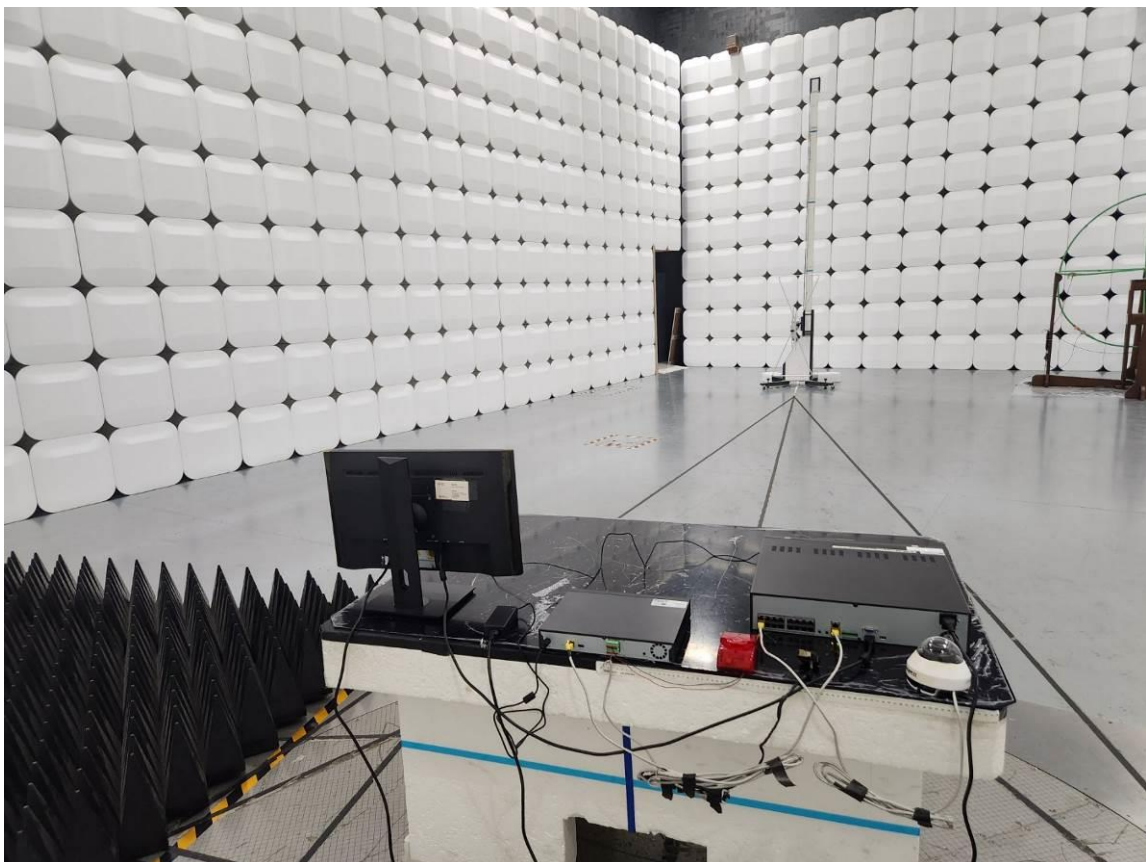
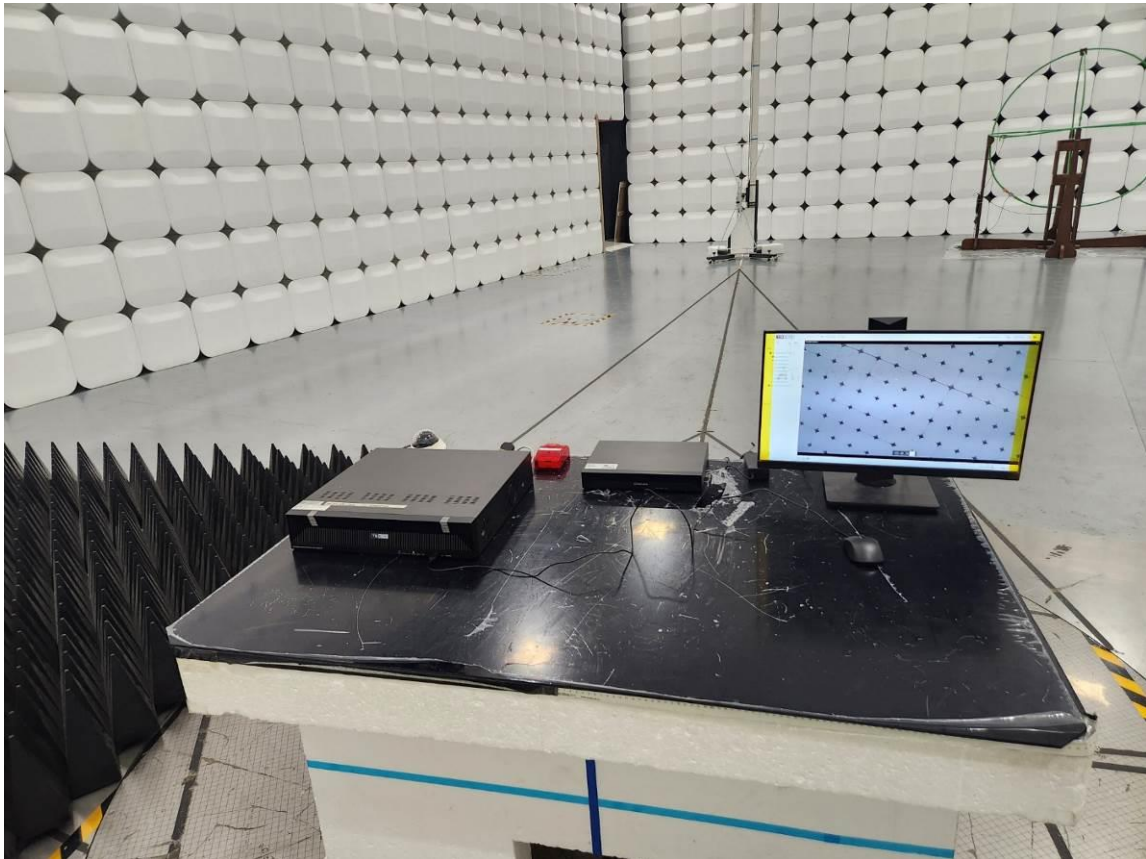
Conducted Emissions



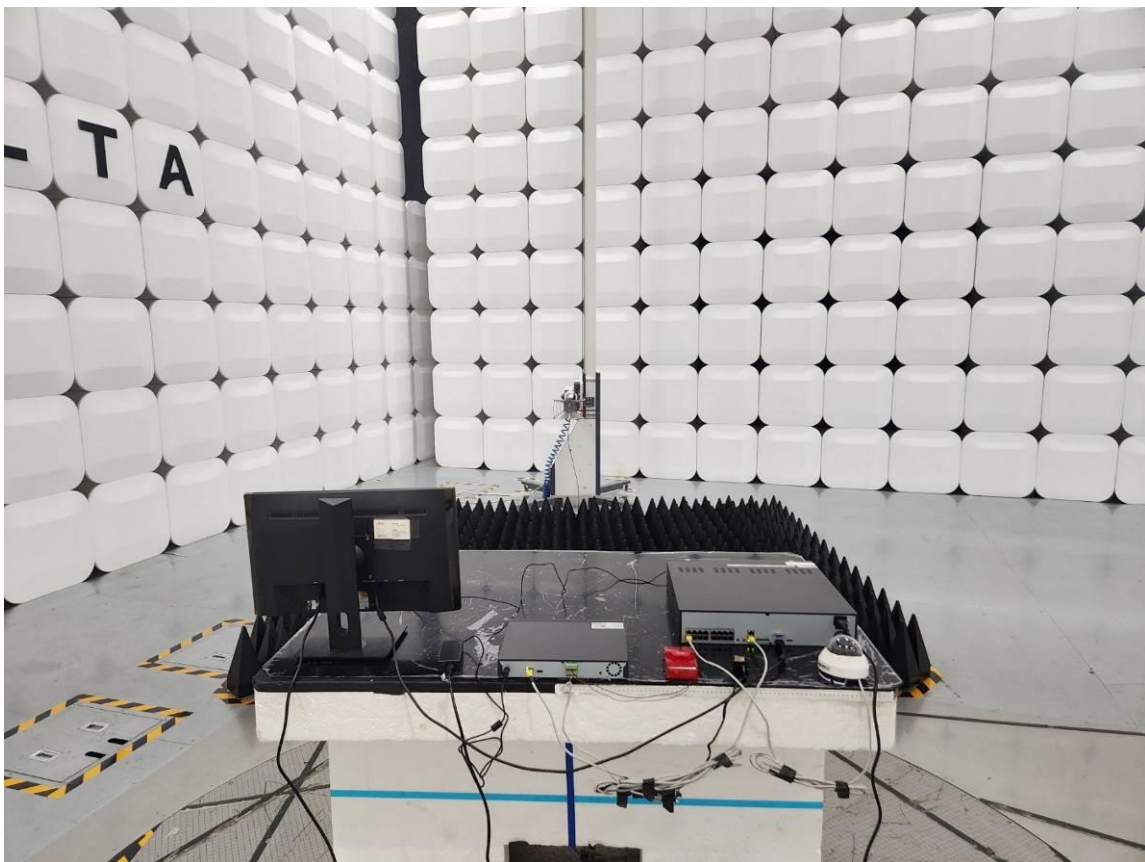
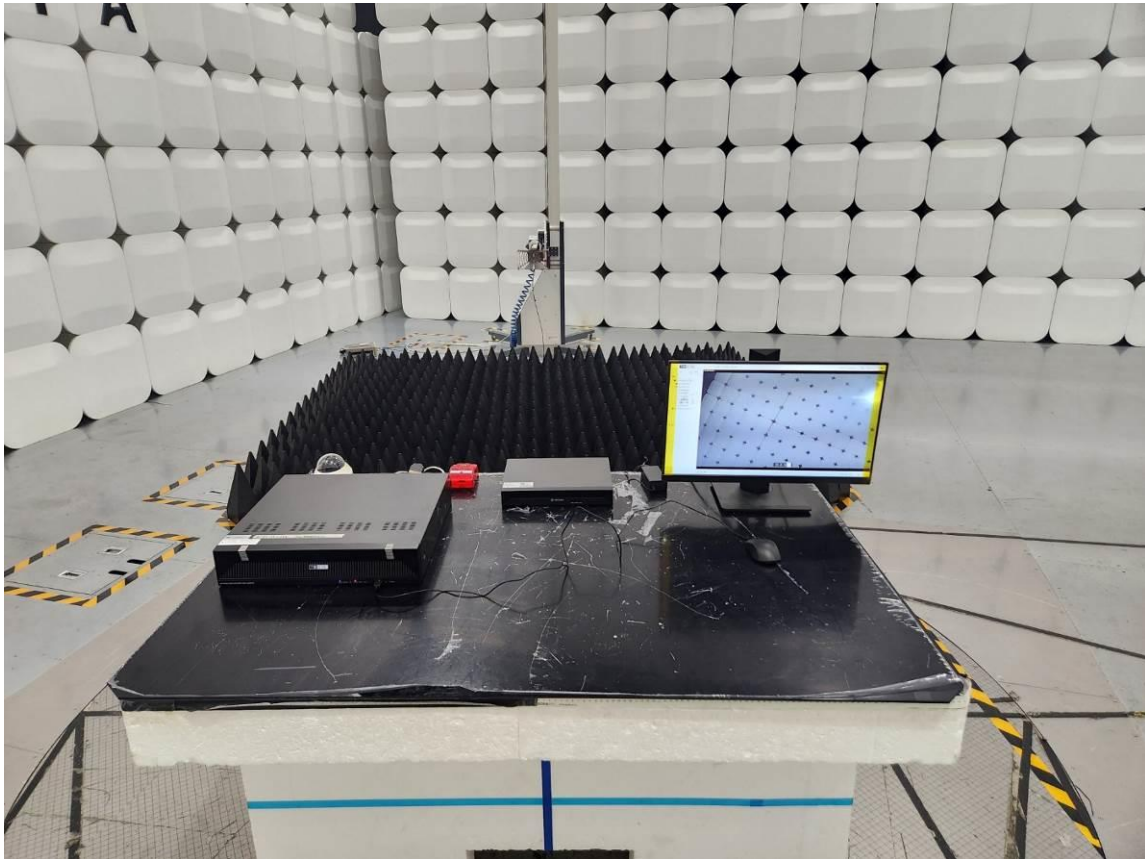
Conducted Emissions (TEL)



Radiated Emissions - Below 1 GHz



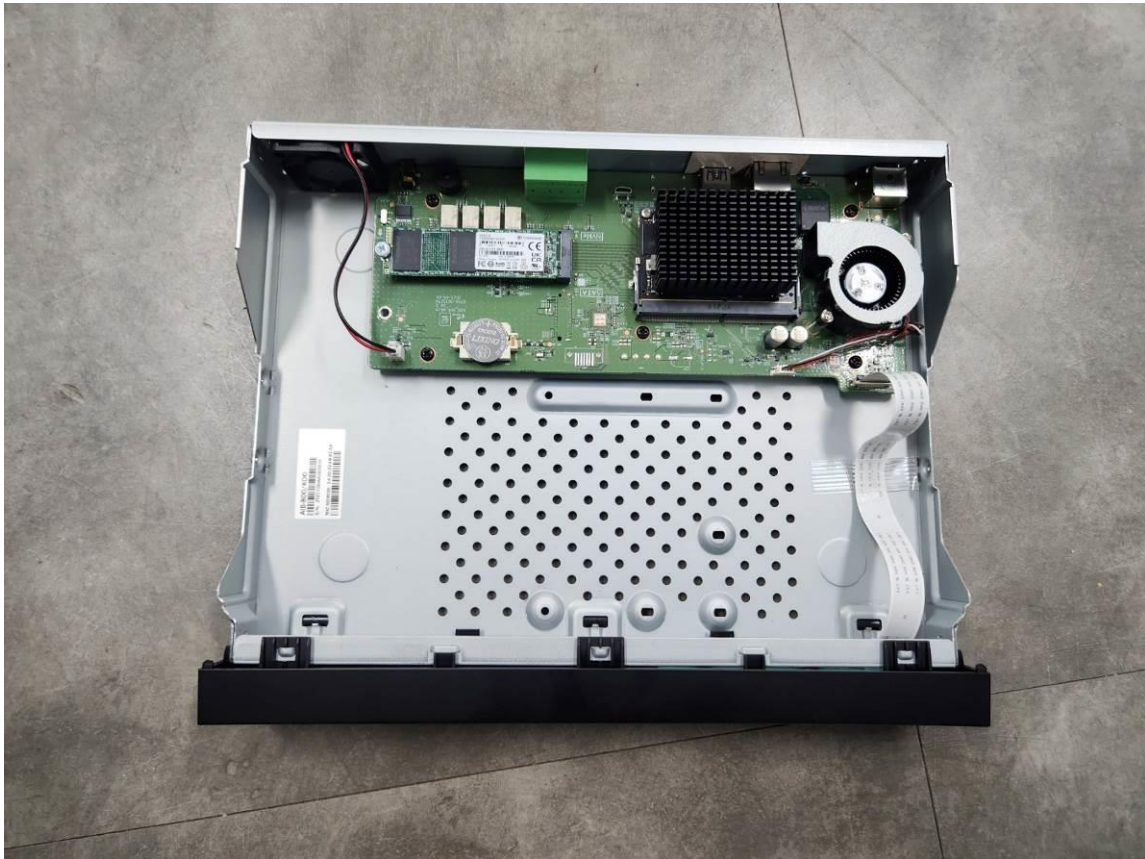
Radiated Emissions - Above 1 GHz



EUT



EUT



Modification

