



TEST REPORT



Report No. : KES-EM252040

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KES Co., Ltd.

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1. Client

Applicant : Hanwha Vision Co., Ltd

Applicant Address : 6, Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

2. Sample Description

Product name : LENS MODULE

Model/Type No. : SLA-F4780VA

Variant Model : -

Manufacturer : 1. HANWHA VISION VIETNAM COMPANY LIMITED
2. D-TECH CO.,LTD.

Manufacturer Address : 1. Lot O-2, Que Vo Industrial Zone extended Area, Nam Son Ward, Bac Ninh City, Bac Ninh Province, Vietnam
2. 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi- do, Korea (Suwon Industrial Complex)

3. Date of Receipt : Jun. 09, 2025

4. Test date : Jun. 10, 2025 ~ Jun. 12, 2025

5. Date of Issue : Jun. 24, 2025

6. Test Results : In Compliance

Tested by

Reviewed by

Sung Keun, Park
EMC Test Engineer

Dong Hun, Jang
EMC Technical Manager

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

KES-QP16-F01(00-23-01-01)

KES Co., Ltd.

The authenticity of this test report can be found on the verification page of our website (www.kes.co.kr)



REPORT REVISION HISTORY

Date	Test Report No.	Revision History
Jun. 24, 2025	KES-EM252040	Issued

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1.0 General Product Description

Main Specifications of EUT are:

Division		Specificity
Internal highest operating frequency		3 000 MHz
Power	Rated Power	DC 5 V
	Test Power	AC 120 V, 60 Hz
Ports	I/O Port	RJ-12 1 EA
	Unused Port	N/A
Components		Main Body 1 EA, Cable 1 EA



	SLA-F4780VA
Video	
Imaging Device	1/2.8" CMOS
Resolution	None
Max. Framerate	None
NETD	None
Pixel Size	None
Video Out	None
Video Transmission Distance	None
Lens	
Focal Length (Zoom Ratio)	4.72mm fixed focal
Optical Zoom	None
Max. Aperture Ratio	F2.07
Angular Field of View	H: 70°, V: 50°, D: 96°
Min. Object Distance	0.5m(1.64ft)
Focus Control	Fixed
Lens Type	None
Mount Type	RJ12 connected with main unit
Optional Lens	None
Environmental & Electrical	
Operating Temperature / Humidity	-10°C~+55°C(+14°F~+131°F) / 0~95%RH(non-condensing)
Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / 0~90% RH
Wind Load	None
EPA(Effective Projected Area)	None
Certification	None
Input Voltage	DC 5V/0.25A
Power Consumption	1.25W
Mechanical	
Color / Material	Black / Plastic, Metal
RAL Code	RAL9005
Product Dimensions / Weight	Lens: 30(W)x20.5(H)xD45mm(1.18x0.81x1.77"), 44.4g(0.1lb) Cable: 8m(26.2ft)
Compatible Conduit hole / Gasket	None
Certifications & Standards	
Network	None
EMC	FCC 47 CFR 15 Subpart B Class A ICES-3(A)/NMB-3(A) CE/UKCA - EN 55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3 VCCI CISPR 32 Class A RCM AS/NZS CISPR 32 Class A KS C 9832 Class A , KS C 9835
Safety	UL 62368-1, CAN/CSA C22.2 NO. 62368-1
Video	None



1.1 Test Voltage & Frequency

Unless indicated otherwise on the individual data sheet or test results, the test voltage and frequency was as indicated below.

☒ AC 120 V / 60 Hz(AC/DC Adapter)

1.2 Variant Model Differences

Not applicable

1.3 Device Modifications

Not applicable

1.4 Equipment Under Test

Description	Model Number	Serial Number	Manufacturer	Remarks
LENS MODULE	SLA-F4780VA	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
NETWORK CAMERA Adapter	2ACB022F	-	Channel Well Technology (Guangzhou) Co., Ltd.	-
NETWORK CAMERA	PNM-C20000QB	-	HANWHA VISION VIETNAM COMPANY LIMITED	-
Laptop	P95G001	9JM8HT2	DELL INC.	-
Laptop Adatper	LA65NS2-01	-	LITE-ON TECHNOLOGY(CHANGZHO U)CO., LTD.	-

1.6 External I/O Cabling

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
LENS MODULE (EUT)	RJ-12	PoE Switch	RJ-12	8.0	S
Laptop	DC Jack	Laptop Apapter	DC Jack	1.4	S
	RJ-45	PoE Switch	RJ-45	1.5	U
PoE Switch	DC IN	PoE Switch Adapter	2 Pin	1.2	U

* Unshielded=U, Shielded=S

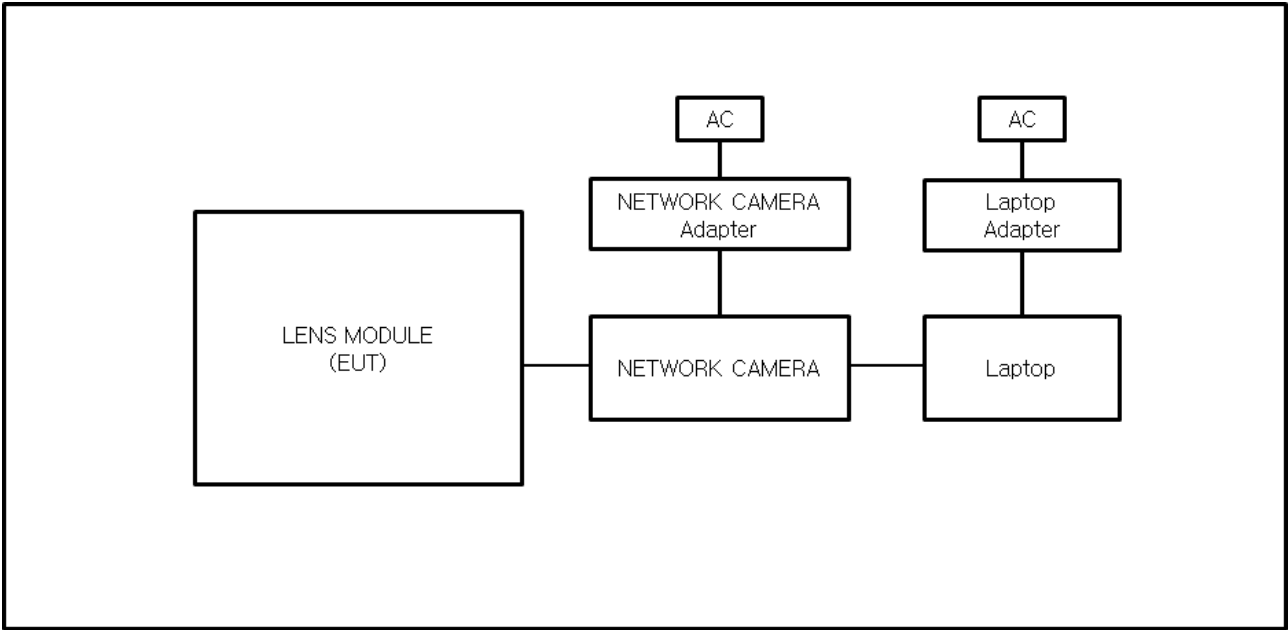


1.7 EUT Operating Mode(s)

- Check the network behavior of the EUT with the laptop's ping test.
- View images of the camera through the Web Viewer.

EUT Test operating S/W		
Name	Version	Manufacture Company
Web Viewer	-	HANWHA VISION VIETNAM COMPANY LIMITED

1.8 Configuration





1.9 Remarks when standards applied

N/A

1.10 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less.

1.11 Test Facility

The measurement facility is located at 473-21, Gayeo-ro, Yeosu-si, Gyeonggi-do, 12658, Korea, Republic of. The sites are constructed in conformance with the requirements of ANSI C63.4a-2017 and CISPR 16-1-4:2019

1.12 Measurement Procedure

- Conducted Emissions

The conducted emission levels were measured on each current-carrying line with the spectrum analyzer operating in the CISPR quasi-peak mode (or peak mode if applicable). The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. If the conducted emission exceed the average limit with the instrument set to the quasi-peak mode, the measurements are made in the average mode. The emission spectrum was scanned from 150 kHz to 30 MHz. The highest emission amplitudes relative to the appropriate limits were measured and have been recorded. Quasi-peak readings are distinguished with a "QP".

- Radiated Electric Field Emissions

The test was done at a SEMI ANECHOIC CHAMBER with quasi-peak detector. The final test data was measured using a Quasi-Peak detector below 1 GHz at 10 m or 3 m distance and a Peak and Average detector above 1 GHz at 3 m distance. Test was proceeded worst case test mode and cable configuration.

Measurements were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna height was varied from 1 m to 4 m and the EUT was rotated 360° to find the maximum emitting point for each frequency.

Measurement procedures was In accordance with ANSI C63.4-2014 7.3.3, 7.3.4, 8.3.1.1, 8.3.1.2, 8.3.2.1, 8.3.2.2

**1.13 Laboratory Accreditations and Listings**

Country	Agency	Scope of Accreditation	Logo
KOREA	RRA	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 KR0100
International	KOLAS	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 KT489
USA	FCC	3 m & 10 m Semi-Anechoic Chamber Conducted test site to perform FCC Part 15/18 measurements.	 KR0100
Canada	ISED	3 m & 10 m Semi-Anechoic Chamber and Conducted test site	 23298
JAPAN	VCCI	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site)	 C-20136, T-20137, R-20181, G-20176
Europe	TÜV SÜD	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 CARAT 001633 0008



2.0 Test Regulations

The emissions tests were performed according to following regulations:

☒ **47 CFR Part 15, Subpart B**

☐ CISPR 22:2009 +A1:2010

☐ Class A

☐ Class B

☒ ANSI C63.4a-2017

☒ Class A

☐ Class B

☒ **IC Regulation ICES-003 Issue 7**

☐ CAN/CSA-CISPR 32:17

☐ Class A

☐ Class B

☒ ANSI C63.4a-2017

☒ Class A

☐ Class B





2.1 Conducted Emissions at Mains Power Ports

Test Date

Jun. 10, 2025

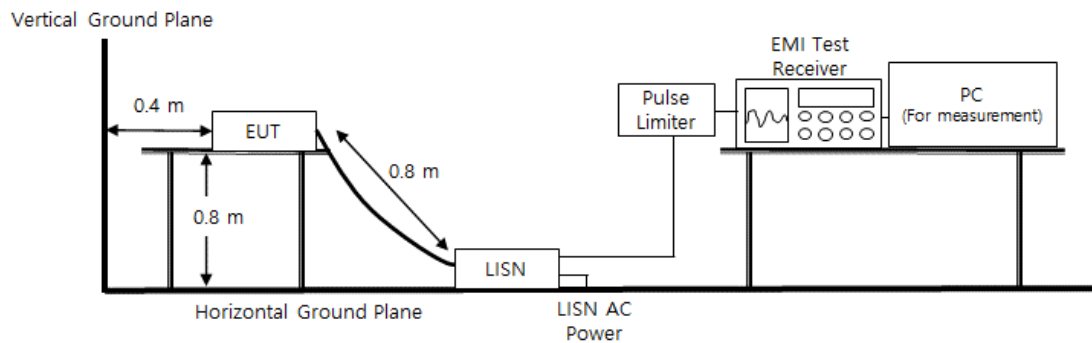
Test Location

Electro wave Shieldroom #6

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
☒	EMI Test S/W	EMC32	R & S	9.12.00	-	-
☒	EMI TEST RECEIVER	ESR3	R & S	101783	11, 06, 2025	1 Year
☒	LISN	ENV216	R & S	101786	01, 09, 2026	1 Year
☒	ARTIFICIAL MAINS NETWORK	ESH2-Z5	R & S	100450	11, 06, 2025	1 Year
☒	PULSE LIMITER	ESH3-Z2	R & S	101915	11, 06, 2025	1 Year

Diagram of test setup





Test Conditions

Temperature: (23,6 ± 0,1) °C
Relative Humidity: (46,8 ± 0,1) % R.H.

Frequency Range of Measurement

150 kHz to 30 MHz

Instrument Settings

IF Band Width: 9 kHz

Test Results

The requirements are:

- ☒ PASS
- ☐ NOT PASS
- ☐ NOT APPLICABLE

Remarks

See Appendix A for test data.





2.2 Radiated Electric Field Emissions(Below 1 GHz)

Test Date

Jun. 12, 2025

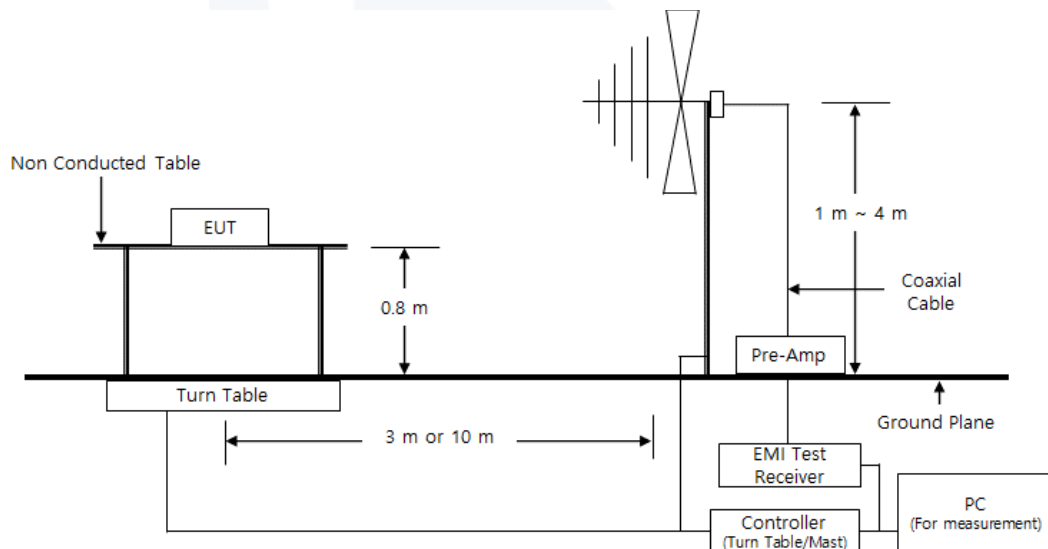
Test Location

☐ OPEN AREA TEST SITE #2☒ SEMI ANECHOIC CHAMBER #4(10m)

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
☒	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-	-
☒	EMI TEST RECEIVER	ESU26	R & S	100551	02, 13, 2026	1 Year
☒	AMPLIFIER	SCU 01	R & S	100603	11, 06, 2025	1 Year
☒	BILOG ANTENNA	VULB 9168	SCHWARZBECK	9168-461	05, 09, 2026	2 Year
☒	ATTENUATOR	6806.17.A	HUBER+SUHNER	-	02, 13, 2026	1 Year

Diagram of test setup





Test Conditions

Temperature: (23,6 ± 0,2) °C
Relative Humidity: (46,0 ± 0,2) % R.H.

Frequency Range of Measurement

30 MHz to 1 GHz

Instrument Settings

IF Band Width: 120 kHz

Test Results

The requirements are:

- ☒ PASS
- ☐ NOT PASS
- ☐ NOT APPLICABLE

Remarks

See Appendix A for test data.





2.3 Radiated Electric Field Emissions(Above 1 GHz)

Test Date

Jun. 11, 2025

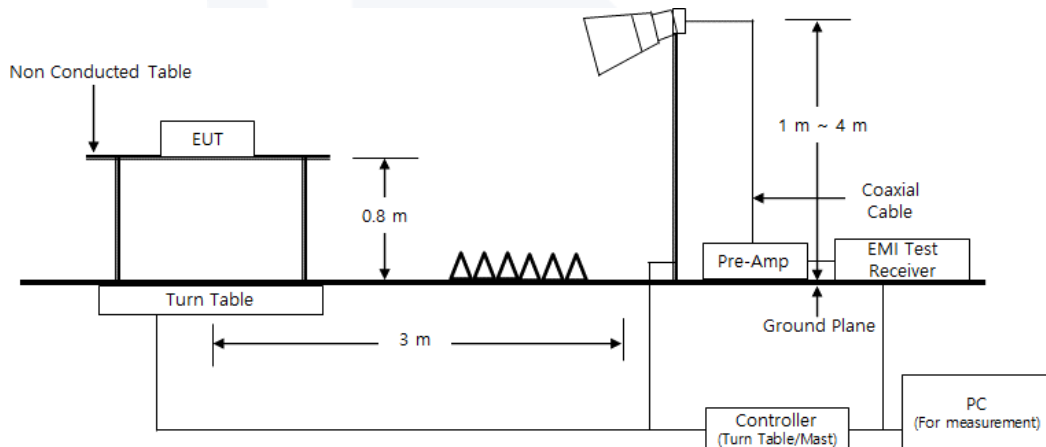
Test Location

SEMI ANECHOIC CHAMBER #5

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
☒	EMI Test S/W	ES10/RE	TOYO Corporation	2022.01.000	-	-
☒	EMI TEST RECEIVER	ESU26	Rohde & Schwarz	100552	02, 13, 2026	1 Year
☒	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	11, 04, 2025	1 Year
☒	PREAMPLIFIER	8449B	HP	3008A00538	04, 30, 2025	1 Year
☒	ATTENUATOR	8491B	HP	23094	02, 13, 2026	1 Year

Diagram of test setup





Test Conditions

Temperature: (23,5 ± 0,2)°C
Relative Humidity: (46,5 ± 0,2) % R.H.

Frequency Range of Measurement

1 GHz to 15 GHz

Instrument Settings

IF Band Width: 1 MHz

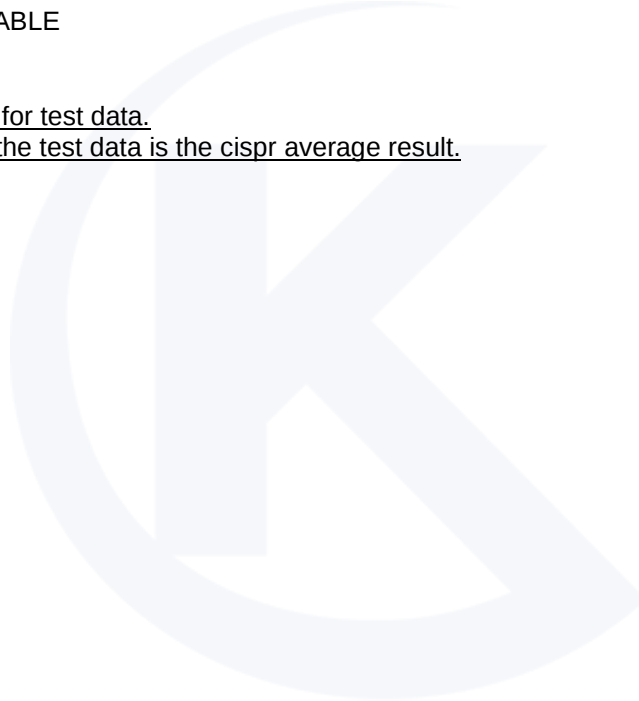
Test Results

The requirements are:

- ☒ PASS
- ☐ NOT PASS
- ☐ NOT APPLICABLE

Remarks

- See Appendix A for test data.
- The Average of the test data is the cispr average result.



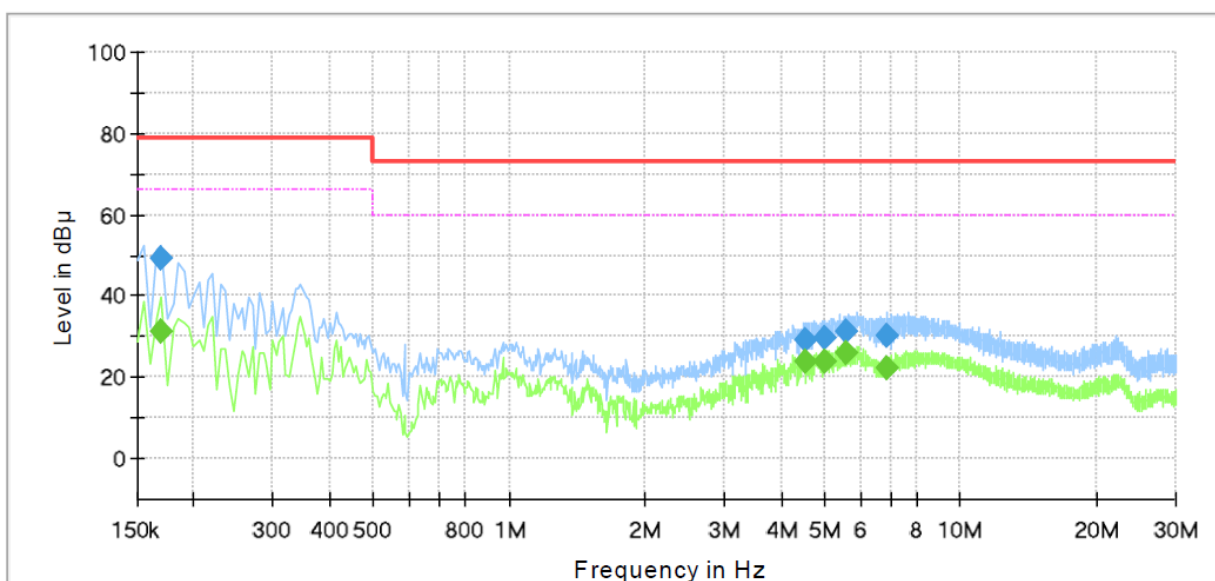


APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

HOT LINE

Test Description: Conducted Emission
Job No.: KES-EM252040
Phase: L
Mode:
Operator Name: KES



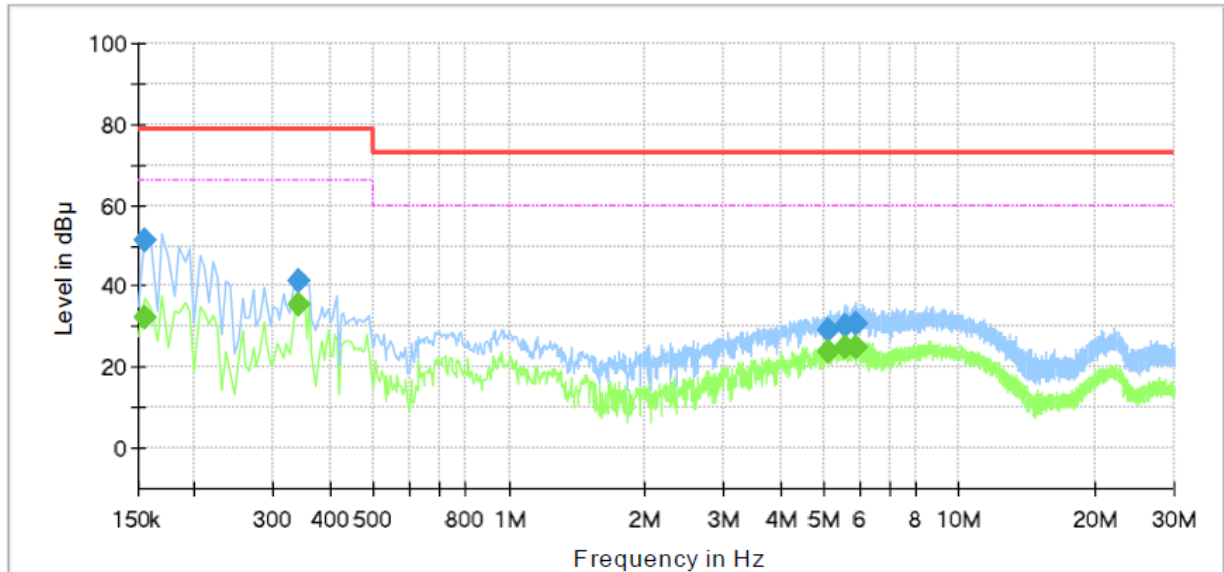
Final_Result

Frequency (MHz)	QuasiPeak (dB μV)	CAverage (dB μV)	Limit (dB μV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.170000	---	31.20	66.00	34.80	1000.0	9.000	L1	19.5
0.170000	49.25	---	79.00	29.75	1000.0	9.000	L1	19.5
4.550000	---	24.06	60.00	35.94	1000.0	9.000	L1	19.9
4.550000	29.36	---	73.00	43.64	1000.0	9.000	L1	19.9
4.980000	---	23.63	60.00	36.37	1000.0	9.000	L1	19.9
4.980000	29.62	---	73.00	43.38	1000.0	9.000	L1	19.9
5.575000	---	25.84	60.00	34.16	1000.0	9.000	L1	19.9
5.575000	31.42	---	73.00	41.58	1000.0	9.000	L1	19.9
6.835000	---	22.50	60.00	37.50	1000.0	9.000	L1	20.0
6.835000	29.94	---	73.00	43.06	1000.0	9.000	L1	20.0



NEUTRAL LINE

Test Description: Conducted Emission
Job No.: KES-EM252040
Phase: N
Mode:
Operator Name: KES



Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.155000	---	32.20	66.00	33.80	1000.0	9.000	N	19.5
0.155000	51.37	---	79.00	27.63	1000.0	9.000	N	19.5
0.340000	---	35.40	66.00	30.60	1000.0	9.000	N	19.5
0.340000	41.52	---	79.00	37.48	1000.0	9.000	N	19.5
5.085000	---	23.80	60.00	36.20	1000.0	9.000	N	19.9
5.085000	28.92	---	73.00	44.08	1000.0	9.000	N	19.9
5.600000	---	24.71	60.00	35.29	1000.0	9.000	N	19.9
5.600000	30.37	---	73.00	42.63	1000.0	9.000	N	19.9
5.860000	---	24.97	60.00	35.03	1000.0	9.000	N	19.9
5.860000	30.93	---	73.00	42.07	1000.0	9.000	N	19.9

◆ Calculation

QuasiPeak[dBμV] / CAverage [dBμV] = Reading Value[dBμV] + Corr. [dB]

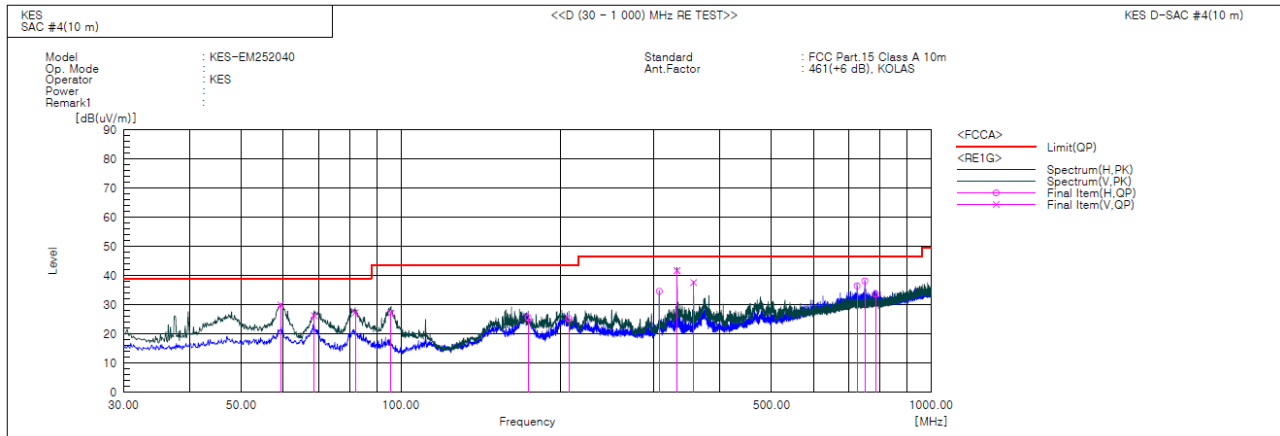
QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

Corr. : Correction values (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

**Radiated Electric Field Emissions(Below 1 GHz)**

- 47 CFR Part 15, Subpart B

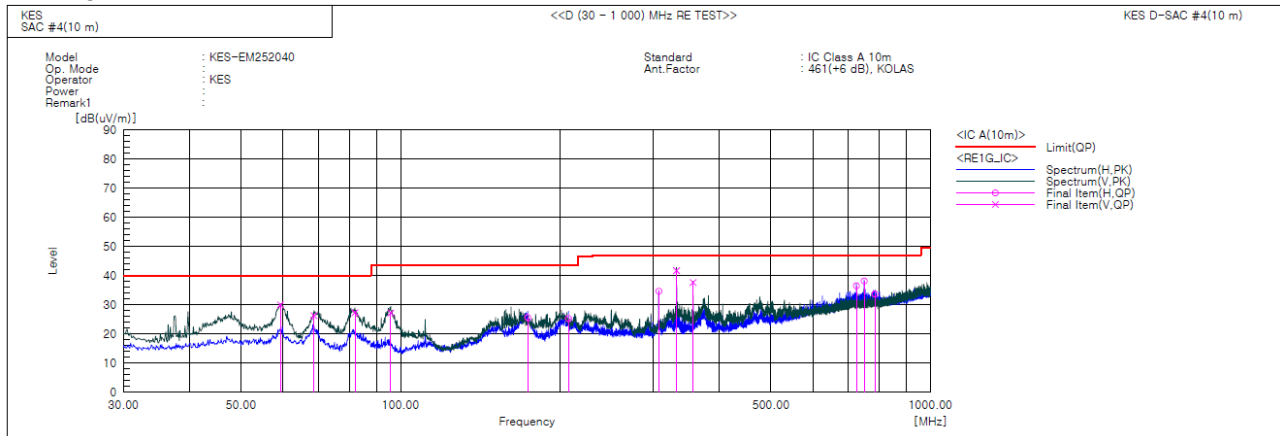
**Final Result**

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	59.343	V	51.3	-21.3	30.0	39.0	9.0	100.0	233.0	
2	68.679	V	48.7	-22.4	26.3	39.0	12.7	137.0	241.0	
3	82.016	V	53.1	-25.8	27.3	39.0	11.7	161.0	29.0	
4	95.839	V	52.7	-25.5	27.2	43.5	16.3	105.0	241.0	
5	173.924	H	45.9	-20.3	25.6	43.5	17.9	376.0	229.0	
6	207.510	H	47.0	-21.7	25.3	43.5	18.2	332.0	259.0	
7	307.178	H	51.3	-16.7	34.6	46.5	11.9	314.0	90.0	
8	331.791	V	57.7	-16.0	41.7	46.5	4.8	172.0	282.0	
9	356.284	V	52.9	-15.3	37.6	46.5	8.9	192.0	146.0	
10	725.005	H	40.8	-4.3	36.5	46.5	10.0	176.0	344.0	
11	749.983	H	41.9	-3.8	38.1	46.5	8.4	127.0	353.0	
12	785.509	H	37.5	-3.8	33.7	46.5	12.8	110.0	102.0	



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- IC Regulation ICES-003 Issue 7



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(μV)]	c.f [dB(1/m)]	Result QP [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	59.343	V	51.3	-21.3	30.0	40.0	10.0	100.0	233.0	
2	68.679	V	48.7	-22.4	26.3	40.0	13.7	137.0	241.0	
3	82.016	V	53.1	-25.8	27.3	40.0	12.7	161.0	29.0	
4	95.839	V	52.7	-25.5	27.2	43.5	16.3	105.0	241.0	
5	173.924	H	45.9	-20.3	25.6	43.5	17.9	376.0	229.0	
6	207.510	H	47.0	-21.7	25.3	43.5	18.2	332.0	259.0	
7	307.178	H	51.3	-16.7	34.6	47.0	12.4	314.0	90.0	
8	331.791	V	57.7	-16.0	41.7	47.0	5.3	172.0	282.0	
9	356.284	V	52.9	-15.3	37.6	47.0	9.4	192.0	146.0	
10	725.005	H	40.8	-4.3	36.5	47.0	10.5	176.0	344.0	
11	749.983	H	41.9	-3.8	38.1	47.0	8.9	127.0	353.0	
12	785.509	H	37.5	-3.8	33.7	47.0	13.3	110.0	102.0	

◆ Calculation

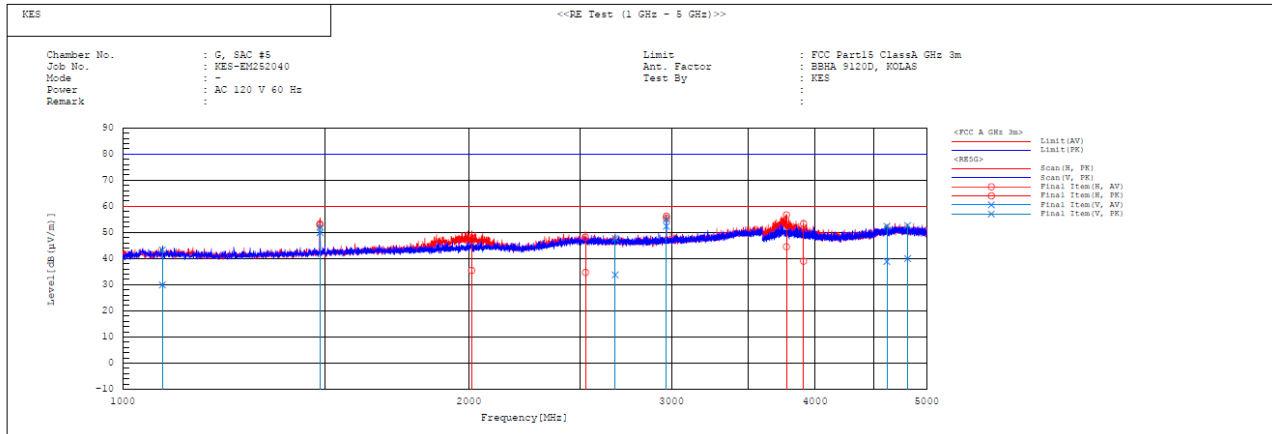
$$\text{Result(QP)} [\text{dB}(\mu\text{V/m})] = (\text{Reading(QP)} [\text{dB}(\mu\text{V})] + \text{c.f} [\text{dB}(1/\text{m})])$$
$$\text{Margin(QP)} [\text{dB}] = \text{Limit} [\text{dB}(\mu\text{V/m})] - \text{Result(QP)} [\text{dB}(\mu\text{V/m})]$$

Reading(QP) : Reading value, Result(QP) : Reading value + Factor value

Limit(QP) : Limit value, c.f : (ANT Factor + Cable Loss – Preamp Factor), Margin: Margin value

**Radiated Electric Field Emissions(Above 1 GHz)**

- (1 ~ 5) GHz

**Final Result**

No.	Frequency [MHz]	Pol	Reading AV [dB (μV)]	Reading PK [dB (μV)]	c.f [dB (1/m)]	Result PK [dB (μV/m)]	Limit AV [dB (μV/m)]	Limit PK [dB (μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Remark
1	1083.192	V	31.2	44.6	-1.3	43.3	60.0	80.0	30.1	36.7	124.0	126.6	
2	1484.532	H	51.9	52.2	1.0	53.2	60.0	80.0	7.1	26.8	100.0	79.3	
3	1484.869	V	48.9	51.1	1.0	52.1	60.0	80.0	10.1	27.9	169.0	183.3	
4	2011.263	H	32.5	44.9	3.0	47.9	60.0	80.0	24.5	32.1	263.0	155.8	
5	2526.196	H	29.6	43.1	5.1	48.2	60.0	80.0	25.3	31.8	254.0	114.9	
6	2680.747	V	28.3	42.2	5.5	47.7	60.0	80.0	26.2	32.3	197.0	140.2	
7	2969.891	H	49.1	49.9	6.3	56.2	60.0	80.0	4.6	23.8	128.0	123.4	
8	2970.032	V	46.0	48.8	6.3	55.1	60.0	80.0	7.7	24.9	115.0	193.3	
9	3776.629	H	36.2	48.4	8.3	56.7	60.0	80.0	15.5	23.3	302.0	163.3	
10	3908.449	H	30.3	44.7	8.7	53.4	60.0	80.0	21.0	26.6	286.0	157.7	
11	4619.208	V	27.6	41.1	11.3	52.4	60.0	80.0	21.1	27.6	224.0	315.0	
12	4814.351	V	28.2	40.9	11.8	52.7	60.0	80.0	20.0	27.3	264.0	213.1	



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- (5 ~ 15) GHz

- PK

Frequency (MHz)	Reading PK (dBuV)	Polarization	Height (m)	ANT Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
6 120.646	39.400	H	1.000	33.200	8.920	33.700	47.820	80.000	32.180
6 727.742	40.300	V	1.000	35.140	9.380	34.730	50.090	80.000	29.910
7 809.342	40.300	V	1.000	36.750	10.090	33.780	53.360	80.000	26.640
8 621.792	40.500	H	1.000	37.440	10.720	33.600	55.060	80.000	24.940

- CISPR AV

Frequency (MHz)	Reading CISPR AV (dBuV)	Polarization	Height (m)	ANT Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
6 120.646	26.100	H	1.000	33.200	8.920	33.700	34.520	60.000	25.480
6 727.742	27.500	V	1.000	35.140	9.380	34.730	37.290	60.000	22.710
7 809.342	27.500	V	1.000	36.750	10.090	33.780	40.560	60.000	19.440
8 621.792	27.500	H	1.000	37.440	10.720	33.600	42.060	60.000	17.940

◆ Calculation

$$\text{Result(PK/CAV)} [\text{dB}(\mu\text{V/m})] = (\text{Reading(PK/CAV)} [\text{dB}(\mu\text{V})] + \text{c.f} [\text{dB}(1/\text{m})])$$
$$\text{Margin(PK/CAV)} [\text{dB}] = \text{Limit} [\text{dB}(\mu\text{V/m})] - \text{Result(PK/CAV)} [\text{dB}(\mu\text{V/m})]$$

Reading(PK/CAV) : Reading value, Result(PK/CAV) : Reading value + Factor value

Limit(PK/CAV) : Limit value, c.f : (ANT Factor + Cable Loss - Preamplifier Factor), Margin: Margin value



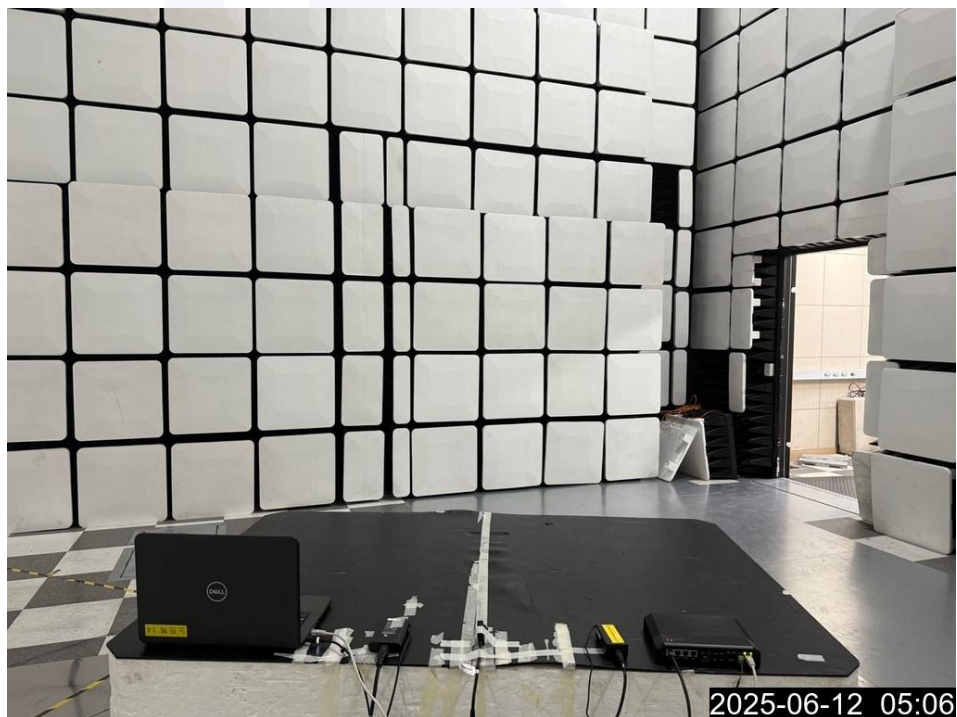
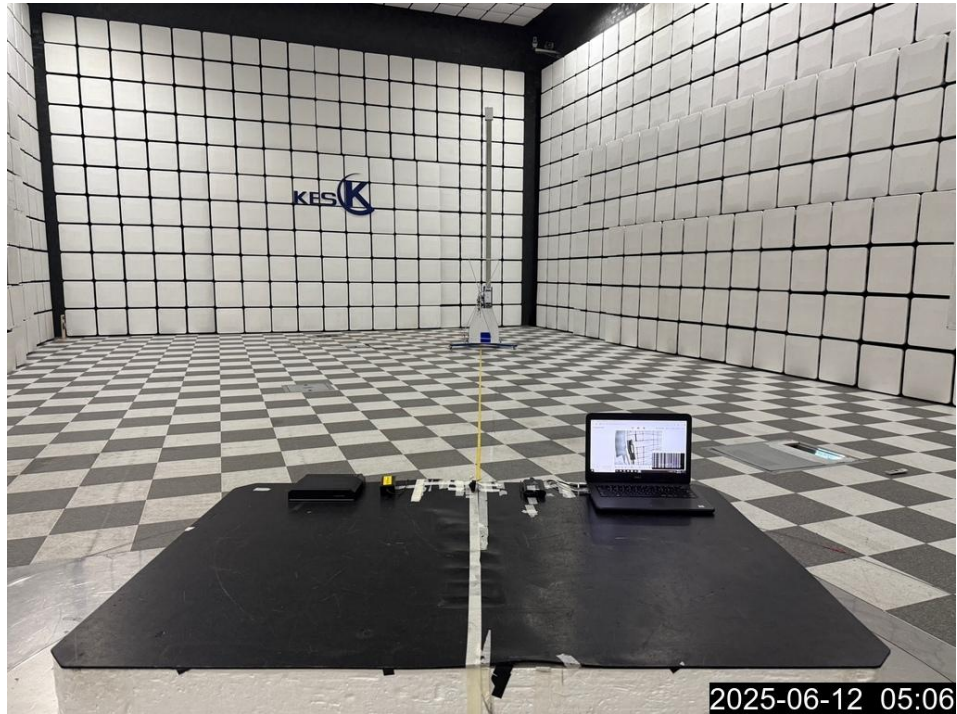
Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports



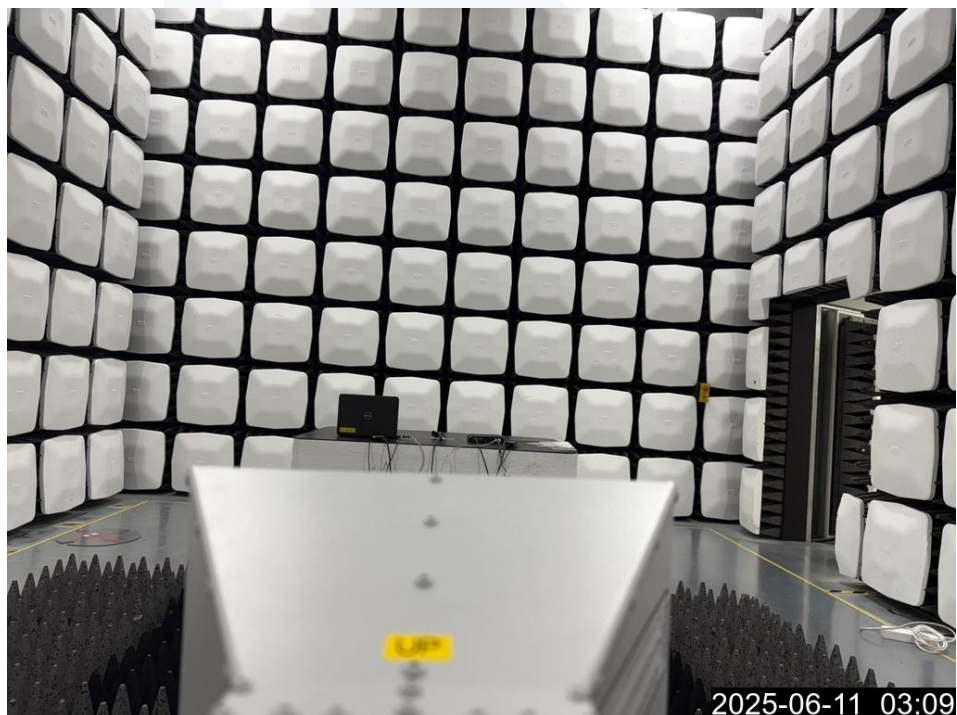
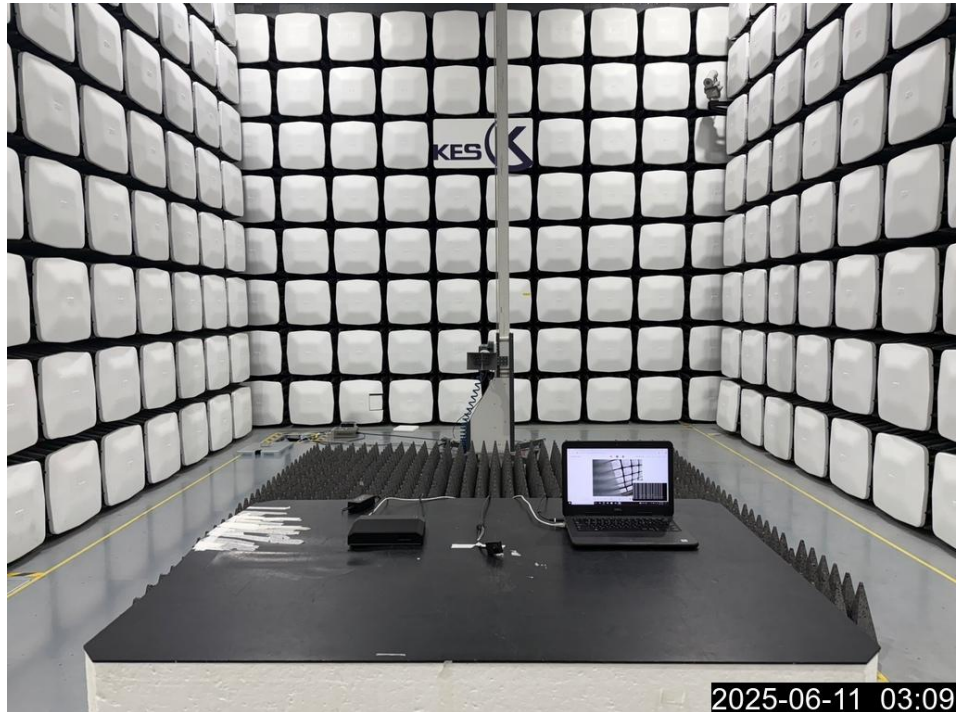


Radiated Electric Field Emissions(Below 1 GHz)





Radiated Electric Field Emissions(Above 1 GHz)





EUT External Photographs

(Top)



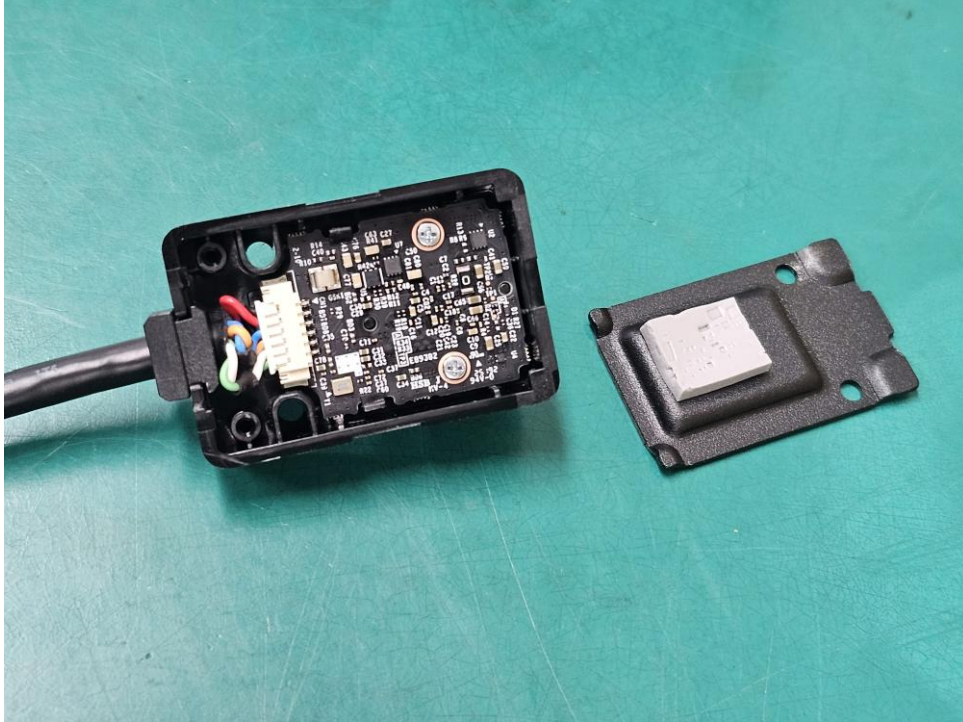
(Bottom)





EUT Internal Photographs

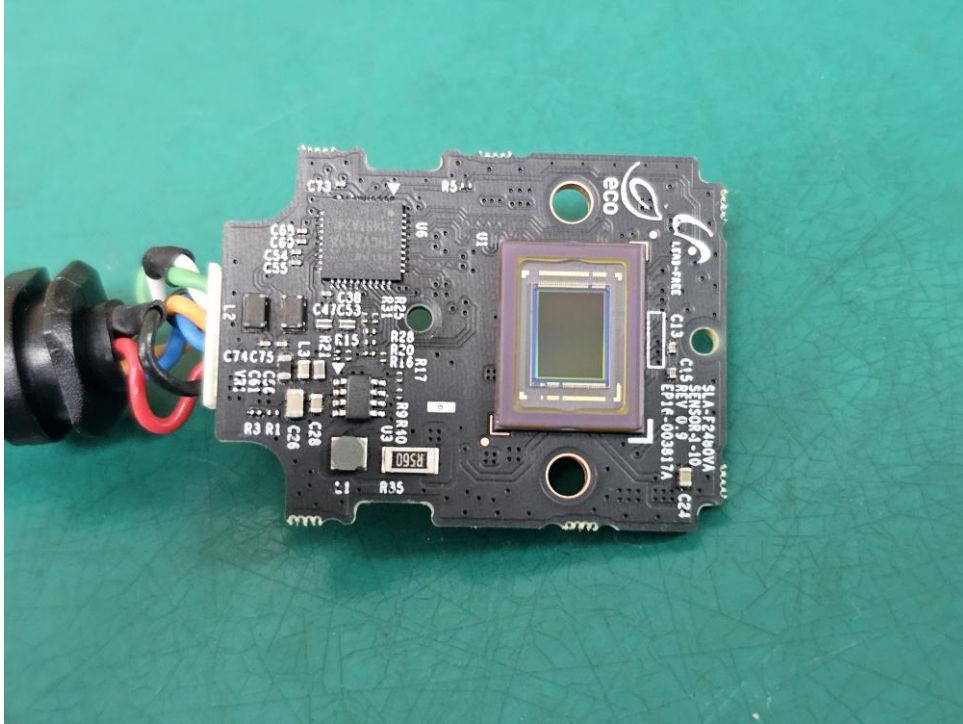
(Internal View)



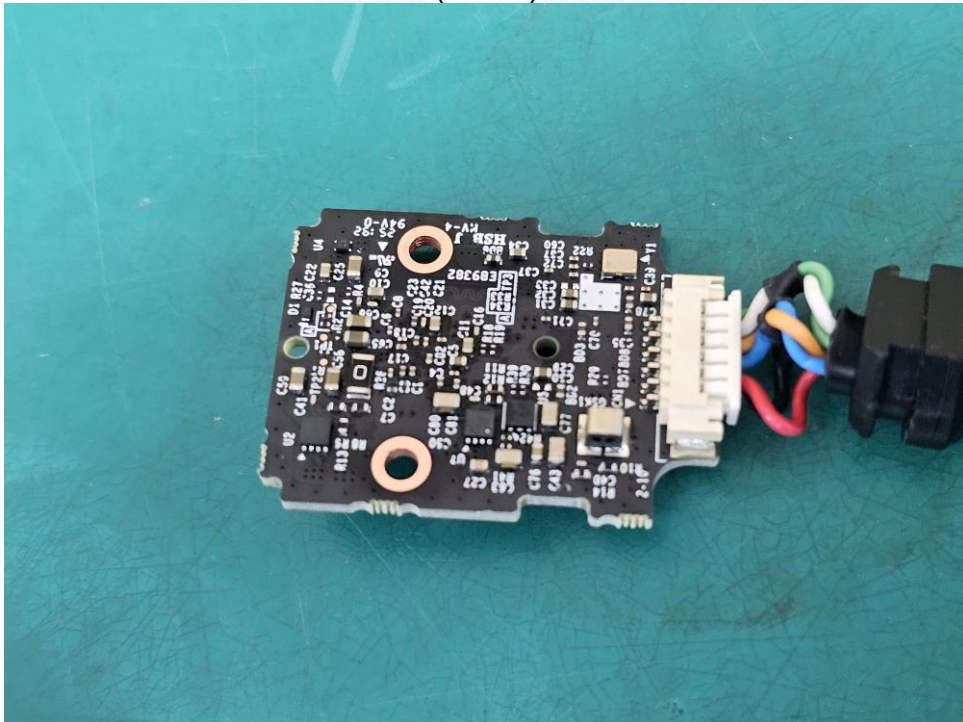


EUT Internal View – Main Board

(Top)



(Bottom)





Label Photographs

FCC Label



LENS MODULE

SLA-F4780VA

IC Label

CAN ICES-003(A) / NMB-003(A)

This device complies with ICES-003 Canada Rules Operation is subject to the following two conditions:
(1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

The End.