



TEST REPORT



Report No. : KES-EM252685

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KES Co., Ltd.

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Tel : +82-31-425-6200, Fax : +82-31-341-3838

1. Client

- Name : Hanwha Vision Co., Ltd.
- Address : 6, Pangyo-ro 319beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

2. Sample Description

- Product item : NETWORK CAMERA
- Model name : TNP-A9430RW
- Variant model : TNP-A9430RWB
- Manufacturer etc. : HANWHA VISION VIETNAM COMPANY LIMITED
- Manufacturer address : Lot O-2, Que Vo Industrial Zone Extended Area, Nam Son Ward, Bac Ninh Province, Vietnam
- Manufacturer etc. : D-TECH CO.,LTD.
- Manufacturer address : 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do, Korea (Suwon Industrial Complex)

3. Date of test : 2025. 08. 31. ~ 2025. 09. 01.

4. Location of Test : Permanent Testing Lab
○ Address : 473-21, Gayeo-ro, Yeoju-si, Gyeonggi-do, 12658, Republic of Korea

5. Test method used : FCC 47 CFR Part 15, Subpart B (ANSI C63.4a-2017),
IC ICES-003 Issue 7 (ANSI C63.4a-2017)

6. Test result : PASS

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
This test report is not related to KOLAS accreditation.

Affirmation	Tested by	Technical Manager by
	Name : SeongMin Jang	Name : DongHun Jang

2025. 09. 11.

KES Co., Ltd.

**REPORT REVISION HISTORY**

Date	Test Report No.	Revision History
2025. 09. 11.	KES-EM252685	Issued

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Use of uncertainty of measurement for decisions on conformity (decision rule):

■ No decision rule is specified by the 1 standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method").

□ Other (to be specified, for example when required by the standard or client)



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1 Laboratory Information

1.1 Test Location

Category	Details
Address	473-21, Gayeo-ro, Yeosu-si, Gyeonggi-do, 12658, Republic of Korea
Telephone Number	070-4910-6200
Facsimile Number	031-341-3838

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

1.2 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 Test Summary

2.1 Class and Voltage

Test Class	Test Voltage
Class A	AC 120 V, 60 Hz

2.2 Summary of Test Results

Regulation			
47 CFR Part 15, Subpart B, ICES-003 Issue 7			
Test Item	Test Standard	Test Result	Remark
Conducted Emissions at Mains Power Ports	ANSI C63.4a-2017	PASS	-
Radiated Emissions(Below 1 GHz)		PASS	-
Radiated Emissions(Above 1 GHz)		PASS	-
* N/A: Not Applicable			

2.3 Remarks when standards applied

N/A

2.4 Variant Model Differences

- Added derivative models due to color differences

2.5 Device Modifications

N/A



3 General Product Description

Division		Specificity
Internal maximum operating frequency		1.78 GHz
Power	Rated power supply	PoE PoE Injector Information Input : AC(100 – 240)V, 2.0 A, (50 / 60)Hz Output : DC 55 V, 1.5 A
	Test Power	AC 120 V, 60 Hz
I/O Ports	User port	Main body : RJ-45, Micro SD Card Slot Fiber PoE Injector : AC In, SFP, LAN, PoE, GND
	Unused/Administrator Port	N/A
function	Product features	NETWORK CAMERA
	Wireless function	N/A
Components		Main body 1 EA, Fiber PoE Injector 1 EA
Others		Please refer to the specifications listed below.



	TNP-A9430RW
Video	
Imaging Device	1/1.8" CMOS
Resolution	3840x2160, 2592x1944, 2592x1464, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 30fps/25fps(60Hz/50Hz)(@8MP Max. 5fps)
Lens	
Focal Length (Zoom Ratio)	6.1~262.4mm(43x) zoom(digital 32x, total 1376x zoom)
Optical Zoom	43x
Max. Aperture Ratio	F1.69(Wide)~4.92(Tele)
Min. Object Distance	5m(16.4ft)
Focus Control	Auto, Manual, Oneshot AF, Focus save
Lens Type	P-iris
Pan / Tilt / Rotate	
Pan Range	360° Endless
Sequence	Preset(300ea), Swing, Group(6ea), Trace, Tour, Auto Run, Schedule
Preset Accuracy	±0.07° (±0.05° Challenge)
Operational	
Camera Title	Displayed up to 85 characters
Direction Indicator	Support
Day & Night	Auto(ICR)
Backlight Compensation	BLC, HLC, WDR, SDR
Wide Dynamic Range	120dB
Digital Noise Reduction	WiseNRⅡ(Based on AI engine), SSNR V
Digital Image Stabilization	Support(built-in gyro sensor)
Optical Image Stabilization	Support
Defog	Support
Motion Detection	8ea, 8point Polygonal zones
Privacy Masking	Setting area : 32ea, quadrangle zones - 8points(after R/C) - Color: Gray/Green/Red/Blue/Black/White - Mosaic Dynamic Privacy Mask(Based on AI engine)-Not supported during PTZ motion - Color: gray/green/red/blue/black/white/purple/yellow - Mosaic
Gain Control	Off / Max gain / Manual
White Balance	ATW / NarrowATW / AWC / Manual / Indoor / Outdoor / Mercury / Sodium
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2~1/30,000sec) Prefer shutter control(Based on AI engine)
Video Rotation	Flip&Mirror
Analytics	Classified object type: Person/Face/Vehicle(Type: car/bus/truck/motorcycle/bicycle) /License plate Attributes: Person(Gender, Clothing top/bottom color, Bag), Face(Age, Gender, Mask, Glasses), Vehicle(Type: car/bus/truck/motorcycle/bicycle, Color) Support BestShot Support Re-ID(Person) Analytics events based on AI engine Motion detection, Object detection, Line crossing(Crossing/Direction), IVA area(Loitering/Intrusion/Enter/Exit/Appear/Disappear), Slip & fall detection Analytics events Tampering, Shock detection, , Audio detection, Frozen detection Support analytics by AI pack (WiseAI)



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Alarm Triggers	Analytics, Network disconnect, Alarm input((Via optional I/O box SPM-4210), Time schedule, MQTT subscription
Alarm Events	When alarm trigger occurred File upload(image): e-mail/FTP/SFTP File upload(video clip): FTP/SFTP Notification: e-mail Recording: SD/SDHC/SDXC or NAS recording at event triggers Alarm output Handover: PTZ preset, send message by HTTP/HTTPS/TCP Audio clip playback(WAV, MP3) MQTT: publication
Light Type	IR LED (850nm)
Water Removal	Support(Wiper)
Ice Removal	P/T moving parts, Defroster heater
Water Pump System	Support (after R/C)
Auto Tracking	Support Object auto tracking(Person/Vehicle) Target lock tracking
Ethernet	RJ-45 Push-Pull Connector
Video Compression	H.265/H.264: Main/Baseline/High, MJPEG
Smart Codec	WiseStream(Based on AI engine)
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast(20 users) / Multicast Multiple streaming(Up to 10 profiles)
Protocol	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast) , NTCIP 1205, MQTT
SIP support (VoIP, Peer-to-peer)	Support
Application Programming Interface	ONVIF Profile S/G/T/M SUNAPI(HTTP API) Wisenet open platform
Security	
OS / Firmware Protect	Encrypted Firmware, Secure boot, Signed Firmware
User authentication	Digest Authentication, Prevent brute-force attack
Network authentication	802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2), 802.1AE(MACsec)
Secure Communication	HTTPS, SRTP, WSS(Websocket secure)
Access Control	IP-based access control, MAC-based access control, Auto logout
Data Protect	Encryption Credentials, Encrypt compress for live recording file export
Audit	Access / System / Event Log management
Device ID	Device Certificate(Hanwha Private Root CA)
Secure Storage	Secure element, SDcard partition encrypt
Supply Chain Security	SBOM
Security Certificate	ETSI EN 303 645, Secure element(FIPS 140-3 level3, CC EAL6+)



General	
Webpage Language	English, Korean, Simplified Chinese, Traditional Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
Edge Storage	Micro SD/SDHC/SDXC 1slot Max. 1TB * Hanwha Vision branded microSD cards have been certified and recommended for OnCloud edge recording.
Memory	4GB RAM, 16GB eMMC
Environmental & Electrical	
Operating Temperature / Humidity	-50°C~+60°(-58°F ~ +140°F) +74°C(165°F)(Max) based on NEMA TS-2(2.2.7) Start up should be done at above -30°C 0~100%RH(Condensing) Humidity control /w AIR vent
Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / 0~90% RH
Certification	IP66/IP68, IK08(including Window), IK10(except window) NEMA4X Safety(UL, KC-SDOC), EMC(FCC, CE, VCCI, RCM, KC) NEMA-TS 2(2.2.7, 2.2.8, 2.2.9)
Input Voltage	HPoE(IEEE802.3bt type4, Class8, Injector included)
Power Consumption	PoE: Max. 71.0W, typical 33.2W Support Wisepower - Power monitoring(Max/Current/Avg.) Eco mode
Mechanical	
Color / Material	White, Black / Aluminum, PC, Glass
Material Management	RoHS(EU RoHS directive 2011/65/EU and IEC/EN 63000:2018) REACH(Regulation (EC) No. 1907/2006) Conflict mineral policy(Section 1502 of US Dodd Frank Act)
RAL Code	RAL9003 / RAL9005
Product Dimensions / Weight	WxDxH -. Upright Normal / Inverted, 293.4x205.6x399.9mm (11.55x8.09x15.74") -. Upright Canted, 293.4x301.9x363.6mm (11.55x11.89x14.31") 10.53kg (9.49kg - Excluding installation part)



4 EUT Setup and Operation Mode

4.1 EUT Configuration

Product Name	Model Number	Serial Number	Manufacturer	Remarks
NETWORK CAMERA	TNP-A9430RW	-	D-TECH CO.,LTD.	EUT
Laptop	NT550XDZ	-	SAMSUNG	-
Laptop Adaptor	A13-040N2A	-	CHICONY POWER TECHNOLOGY (Chongqing) CO., LTD.	-
Micro SD Card	-	-	SanDisk	-
PoE Injector	PT-PSE109GBRO-AH-S	-	Dongguan PROCET Network Technology Co.,Ltd	-
Optical Module 1	FTLX8571D3BCL	-	Finisar	-
Optical Module 2	FTLX8571D3BCL	-	Finisar	-

4.2 System Configuration

Product Name	Model Number	Serial Number	Manufacturer	Remarks
Fiber PoE Injector	PT-PSE109GBRO-AH-S	-	Dongguan PROCET Network Technology Co.,Ltd	-



4.3 External I/O Cabling

Start		End		Cable Spec.	
Product Name	I/O Port	Product Name	I/O Port	Length(m)	Shield
NETWORK CAMERA (EUT)	RJ-45	Fiber PoE Injector (EUT)	PoE	0.8	U
	Micro SD Card Slot	Micro SD Card	Micro SD Card Slot	-	-
Fiber PoE Injector (EUT)	LAN	Laptop	RJ-45	3.1	U
	GND	Ground plane	GND	2.0	-
	SFP	Optical Module 1	SFP	-	-
Optical Module 1	2 Pin	Optical Module 2	2 Pin	0.6	U
PoE Injector	SFP		SFP	-	-
	GND		GND	1.9	-
Laptop	DC Jack	Laptop Adaptor	DC Jack	1.4	U

* Unshielded=U, Shielded=S

4.4 EUT Operating Mode(s)

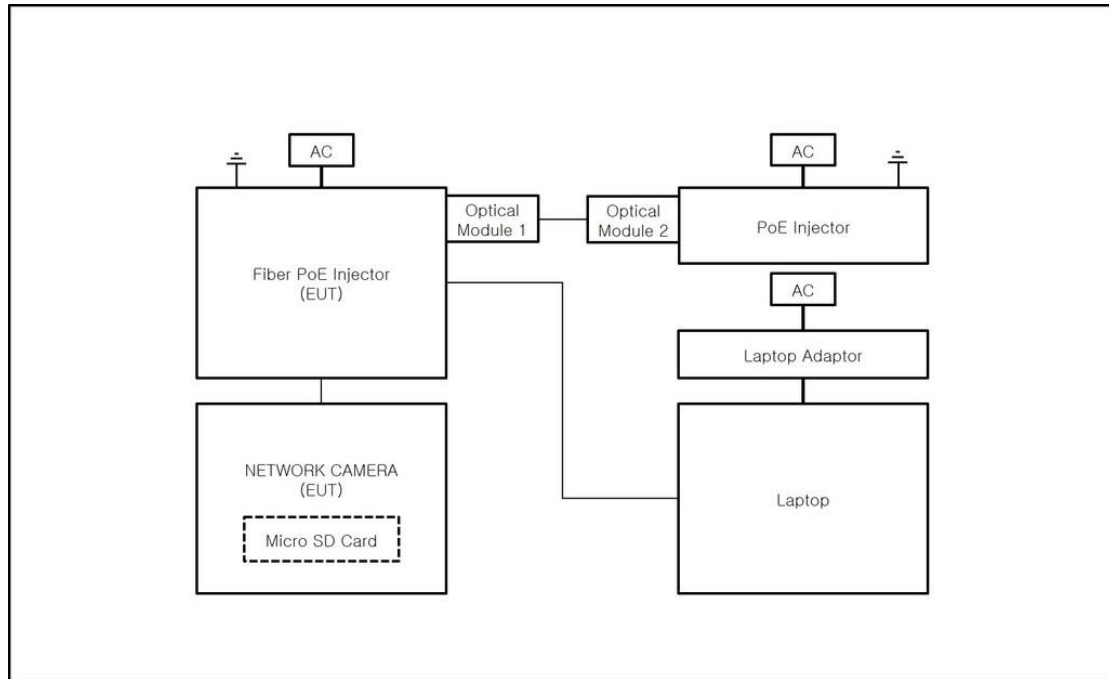
Category	Mode	Operating
Mode 1	Operation	The test equipment was connected to the laptop, and proper operation was verified via Web Viewer.

4.5 Test operating S/W

Name	Version	Manufacture Company
-	-	-



4.6 Configuration



Mode 1



5 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 or CISPR 32.



6 Test Item

6.1 Conducted Emissions at Mains Power Ports

6.1.1 Test Equipment

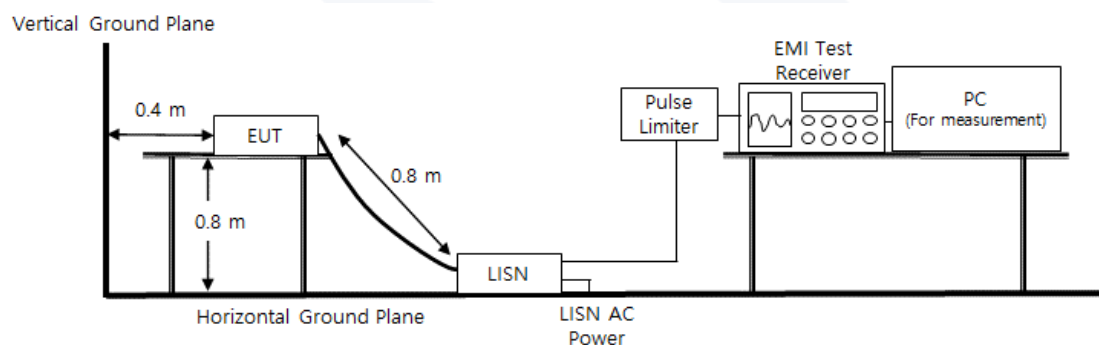
Equipment Name	Model Number	Manufacturer	Serial No.	Cal. Date	Next Cal. Date	Used
SHIELD ROOM #6	-	DYMSTEC	-	-	-	■
EMC32 Measurement Software	EMC32	R&S	9.12.00	-	-	■
EMI TEST RECEIVER	ESR3	Rohde & Schwarz	101783	2024-11-06	2025-11-06	■
LISN	ENV216	Rohde & Schwarz	101786	2025-01-09	2026-01-09	■
ARTIFICIAL MAINS NETWORK	ESH2-Z5	Rohde & Schwarz	100450	2024-11-06	2025-11-06	■
PULSE LIMITER	ESH3-Z2	Rohde & Schwarz	101915	2024-11-06	2025-11-06	■

6.1.2 Test Location : SHIELD ROOM #6

6.1.3 Test Conditions :

Temperature	Relative Humidity
(26.5 ~ 26.6) °C	(58.0 ~ 58.0) % R.H.

6.1.4 Diagram of test setup





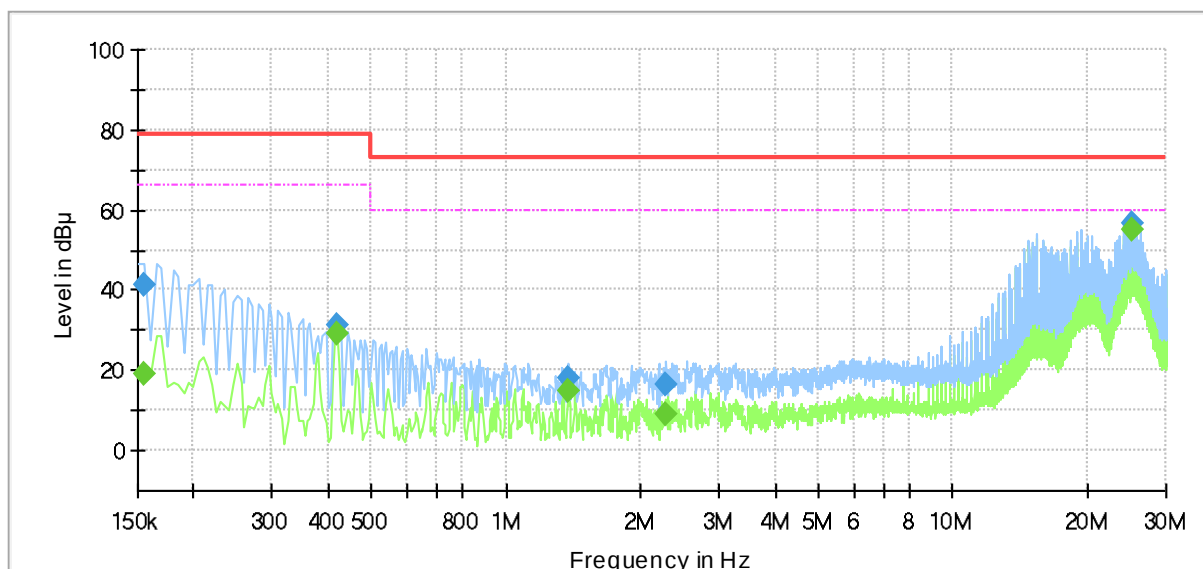
6.1.5 Test Result

- Test Date : 2025-08-31
- Test Mode : Mode 1

Test Report

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Test Description: Conducted Emission
Job No.: KES-EM252685
Phase: L
Mode:
Operator Name: KES



Final_Result

Frequency (MHz)	QuasiPeak (dB uV)	CAverage (dB uV)	Limit (dB uV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.155000	—	19.12	66.00	46.88	1000.0	9.000	L1	19.5
0.155000	41.36	—	79.00	37.64	1000.0	9.000	L1	19.5
0.420000	—	29.32	66.00	36.68	1000.0	9.000	L1	19.6
0.420000	31.03	—	79.00	47.97	1000.0	9.000	L1	19.6
1.385000	—	14.96	60.00	45.04	1000.0	9.000	L1	19.6
1.385000	18.21	—	73.00	54.79	1000.0	9.000	L1	19.6
2.285000	—	8.79	60.00	51.21	1000.0	9.000	L1	19.7
2.285000	16.50	—	73.00	56.50	1000.0	9.000	L1	19.7
25.140000	—	54.82	60.00	5.18	1000.0	9.000	L1	20.5
25.140000	56.61	—	73.00	16.39	1000.0	9.000	L1	20.5



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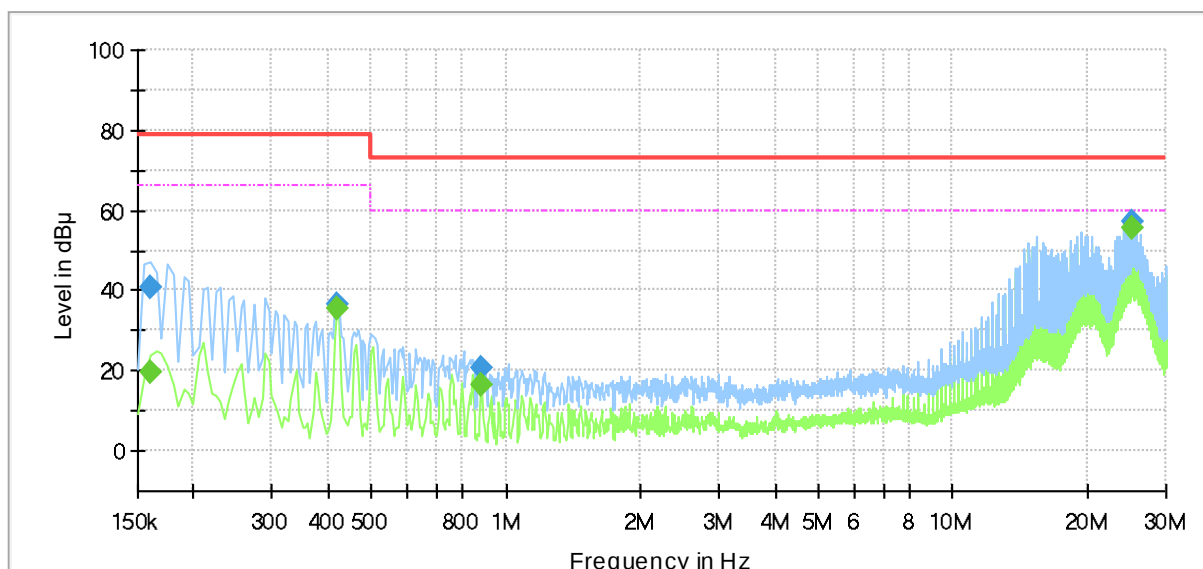
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- Test Date : 2025-08-31
- Test Mode : Mode 1

Test Report

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Test Description: Conducted Emission
Job No.: KES-EM252685
Phase: N
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)
0.160000	—	19.86	66.00	46.14	1000.0	9.000	N	19.5
0.160000	40.75	—	79.00	38.25	1000.0	9.000	N	19.5
0.420000	—	35.40	66.00	30.60	1000.0	9.000	N	19.5
0.420000	36.53	—	79.00	42.47	1000.0	9.000	N	19.5
0.885000	—	16.29	60.00	43.71	1000.0	9.000	N	19.6
0.885000	20.55	—	73.00	52.45	1000.0	9.000	N	19.6
25.140000	—	55.40	60.00	4.60	1000.0	9.000	N	20.5
25.140000	56.95	—	73.00	16.05	1000.0	9.000	N	20.5

6.1.6 Remark

Complies with the test requirements.



6.2 Radiated Emissions(Below 1 GHz)

6.2.1 Test Equipment

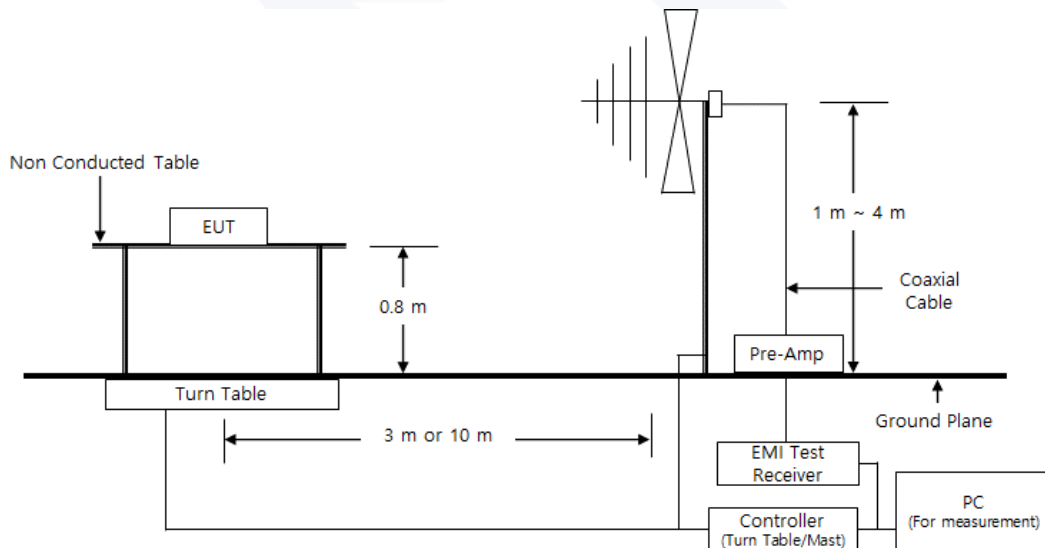
Equipment Name	Model Number	Manufacturer	Serial No.	Cal. Date	Next Cal. Date	Used
SEMI ANECHOIC CHAMBER #4(10 m)	-	DYMSTEC	-	-	-	■
EP5/RE Software	EP5/RE	TOYO	6.0.0	-	-	■
EMI TEST RECEIVER	ESU26	Rohde & Schwarz	100551	2025-02-13	2026-02-13	■
AMPLIFIER	SCU 01	Rohde & Schwarz	100603	2024-11-06	2025-11-06	■
BILOG ANTENNA	VULB 9168	SCHWARZBEC K	9168-461	2024-05-09	2026-05-09	■
ATTENUATOR	6806.17.A	HUBER+SUHNER	-	2025-02-13	2026-02-13	■

6.2.2 Test Location : SEMI ANECHOIC CHAMBER #4(10 m) Measurement Distance : □ 3 m, ■ 10 m

6.2.3 Test Conditions :

Temperature	Relative Humidity
(26.8 ~ 27.0) °C	(54.3 ~ 54.5) % R.H.

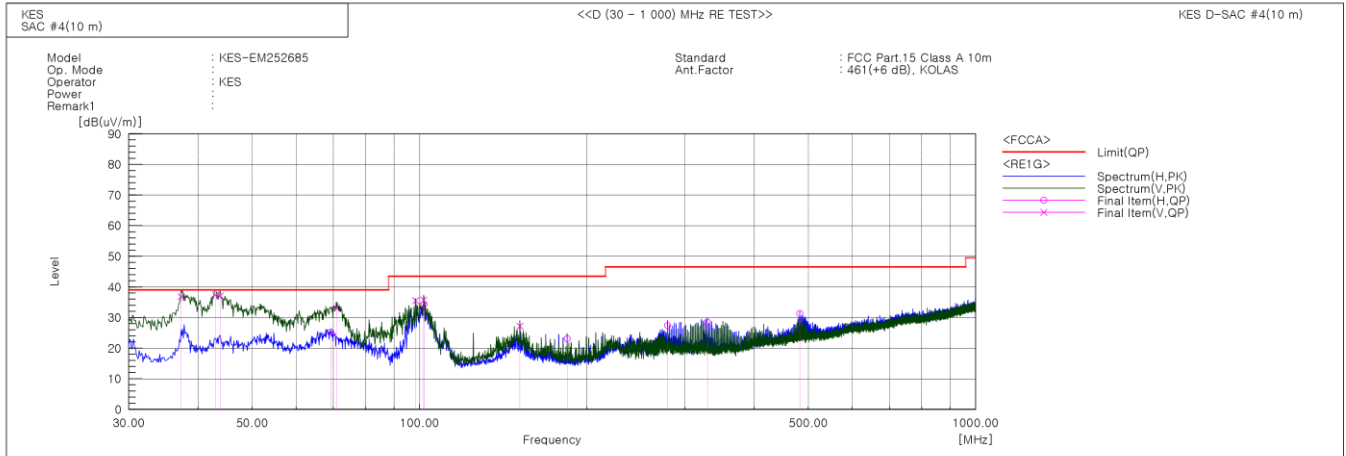
6.2.4 Diagram of test setup





6.2.5 Test Result

- Test Date : 2025-09-01
- Test Mode : FCC



Final Result

No.	Frequency [MHz]	(P)	Reading [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	37.275	V	58.8	-22.0	36.8	39.0	2.2	100.0	219.0	
2	42.974	V	58.9	-21.5	37.4	39.0	1.6	112.0	182.0	
3	43.823	V	58.5	-21.4	37.1	39.0	1.9	105.0	306.0	
4	69.285	H	47.7	-22.5	25.2	39.0	13.8	400.0	143.0	
5	70.861	V	56.0	-22.9	33.1	39.0	5.9	128.0	114.0	
6	98.385	V	60.6	-25.1	35.5	43.5	8.0	150.0	152.0	
7	101.780	V	60.3	-24.6	35.7	43.5	7.8	167.0	39.0	
8	101.901	H	58.8	-24.5	34.3	43.5	9.2	344.0	326.0	
9	151.493	V	46.5	-19.3	27.2	43.5	16.3	198.0	39.0	
10	184.351	H	44.3	-21.2	23.1	43.5	20.4	296.0	113.0	
11	279.411	H	45.3	-17.9	27.4	46.5	19.1	215.0	208.0	
12	329.245	H	44.6	-16.1	28.5	46.5	18.0	307.0	121.0	
13	482.990	H	41.8	-10.5	31.3	46.5	15.2	200.0	227.0	

※ The data is the result measured by the detector in Quasi-Peak mode on the Peak graph.

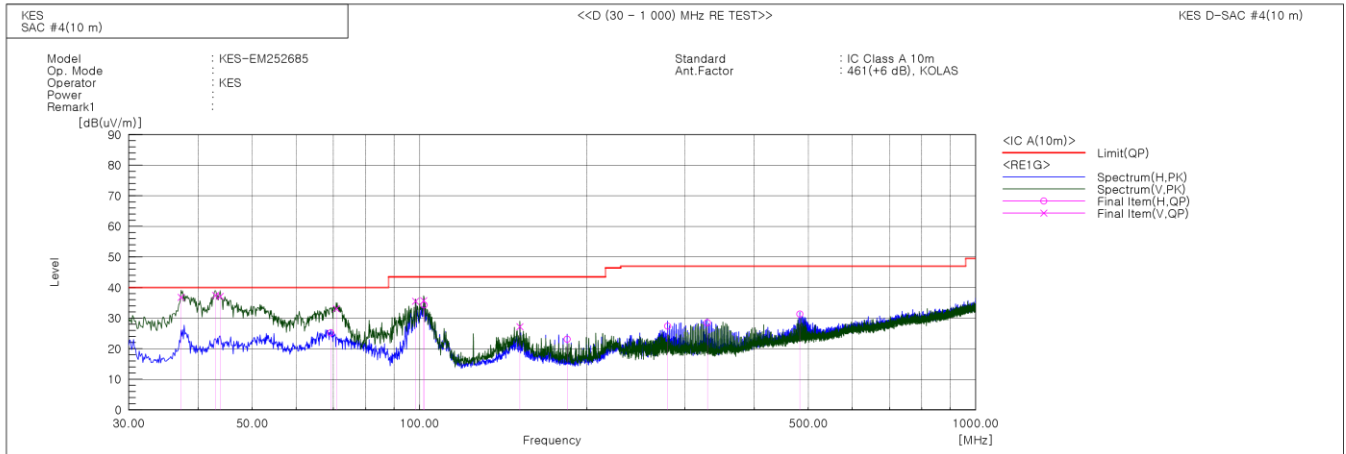


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○ Test Date : 2025-09-01

● Test Mode : IC



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	37.275	V	58.8	-22.0	36.8	40.0	3.2	100.0	219.0	
2	42.974	V	58.9	-21.5	37.4	40.0	2.6	112.0	182.0	
3	43.823	V	58.5	-21.4	37.1	40.0	2.9	105.0	306.0	
4	69.285	H	47.7	-22.5	25.2	40.0	14.8	400.0	143.0	
5	70.861	V	56.0	-22.9	33.1	40.0	6.9	128.0	114.0	
6	98.385	V	60.6	-25.1	35.5	43.5	8.0	150.0	152.0	
7	101.780	V	60.3	-24.6	35.7	43.5	7.8	167.0	39.0	
8	101.901	H	58.8	-24.5	34.3	43.5	9.2	344.0	326.0	
9	151.493	V	46.5	-19.3	27.2	43.5	16.3	198.0	39.0	
10	184.351	H	44.3	-21.2	23.1	43.5	20.4	296.0	113.0	
11	279.411	H	45.3	-17.9	27.4	47.0	19.6	215.0	208.0	
12	329.245	H	44.6	-16.1	28.5	47.0	18.5	307.0	121.0	
13	482.990	H	41.8	-10.5	31.3	47.0	15.7	200.0	227.0	

※ The data is the result measured by the detector in Quasi-Peak mode on the Peak graph.

6.2.6 Remark

Complies with the test requirements.



6.3 Radiated Emissions(Above 1 GHz)

6.3.1 Test Equipment

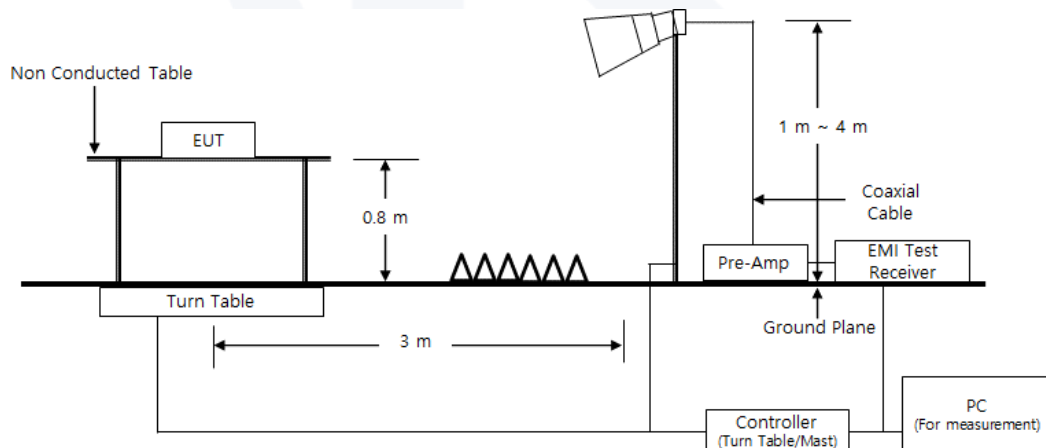
Equipment Name	Model Number	Manufacturer	Serial No.	Cal. Date	Next Cal. Date	Used
SEMI ANECHOIC CHAMBER #5	-	SY Corporation	-	-	-	■
ES10/RE Software	ES10/RE	TOYO	2022.01.000	-	-	■
EMI TEST RECEIVER	ESU26	Rohde & Schwarz	100552	2025-02-13	2026-02-13	■
PREAMPLIFIER	8449B	HP	3008A00538	2025-04-30	2026-04-30	■
ATTENUATOR	8491B	HP	23094	2025-02-13	2026-02-13	■
HORN ANTENNA	BBHA 9120D	SCHWARZBEC K	9120D-1802	2024-11-04	2025-11-04	■

6.3.2 Test Location : SEMI ANECHOIC CHAMBER #5

6.3.3 Test Conditions :

Temperature	Relative Humidity
(25.5 ~ 25.6) °C	(56.5 ~ 56.6) % R.H.

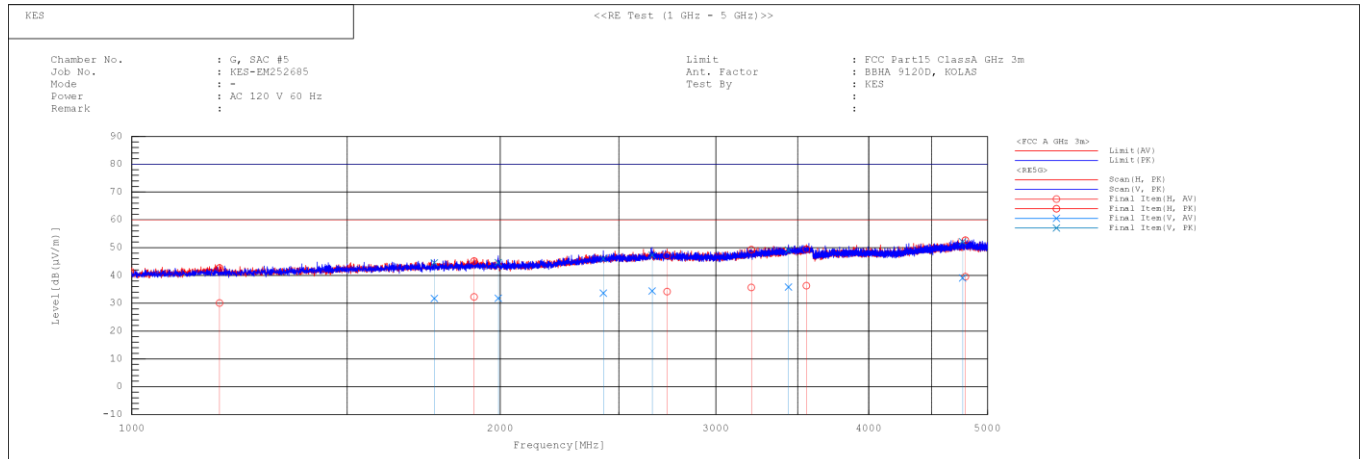
6.3.4 Diagram of test setup





6.3.5 Test Result

- Test Date : 2025-09-01
- Test Mode : Mode 1



Final Result

No.	Frequency [MHz]	Pol	Reading AV [dB (μV)]	Reading PK [dB (μV)]	c.f. [dB (1/m)]	Result AV [dB (μV/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]
1	1179.561	H	30.8	43.4	-0.7	30.1	42.7	60.0	80.0	29.9	37.3	100.0	135.2
2	1766.742	V	29.6	42.4	2.1	31.7	44.5	60.0	80.0	28.3	35.5	162.0	82.6
3	1904.063	H	29.7	42.6	2.6	32.3	45.2	60.0	80.0	27.7	34.8	205.0	251.2
4	1992.793	V	28.9	41.7	2.9	31.8	44.6	60.0	80.0	28.2	35.4	161.0	266.9
5	2427.619	V	28.8	41.2	4.8	33.6	46.0	60.0	80.0	26.4	34.0	227.0	73.6
6	2661.246	V	28.9	41.8	5.5	34.4	47.3	60.0	80.0	25.6	32.7	128.0	239.6
7	2737.210	H	28.5	41.5	5.7	34.2	47.2	60.0	80.0	25.8	32.8	274.0	243.9
8	3206.449	H	29.0	42.6	6.7	35.7	49.3	60.0	80.0	24.3	30.7	200.0	185.7
9	3439.634	V	28.6	41.9	7.2	35.8	49.1	60.0	80.0	24.2	30.9	178.0	132.8
10	3556.798	H	28.9	42.0	7.4	36.3	49.4	60.0	80.0	23.7	30.6	172.0	126.6
11	4770.603	V	27.4	40.4	11.7	39.1	52.1	60.0	80.0	20.9	27.9	150.0	120.5
12	4796.632	H	27.8	40.9	11.8	39.6	52.7	60.0	80.0	20.4	27.3	100.0	165.0

- ※ The data is the result of measured by the detector in PK and CISPR Average on the Peak graph.
- ※ The Average of the test data is the cispr average result.



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○ Test Date : 2025-09-01

● Test Mode : Mode 1

(5 ~ 16) GHz

PK

Frequency (MHz)	Reading PK (dBuV)	Polarization	Height (m)	ANT Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
6 893.800	41.300	V	1.000	35.790	9.970	34.690	52.370	80.000	27.630
6 936.420	40.100	H	1.000	35.990	9.970	34.680	51.380	80.000	28.620

Cispr-AV

Frequency (MHz)	Reading CISPR AV (dBuV)	Polarization	Height (m)	ANT Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
6 893.800	27.500	V	1.000	35.790	9.970	34.690	38.570	60.000	21.430
6 936.420	27.200	H	1.000	35.990	9.970	34.680	38.480	60.000	21.520

※ No spurious emission were detected above XX GHz

6.3.6 Remark

Complies with the test requirements.



7 Test Setup Photos and EUT Photographs

7.1 Test Setup Photos



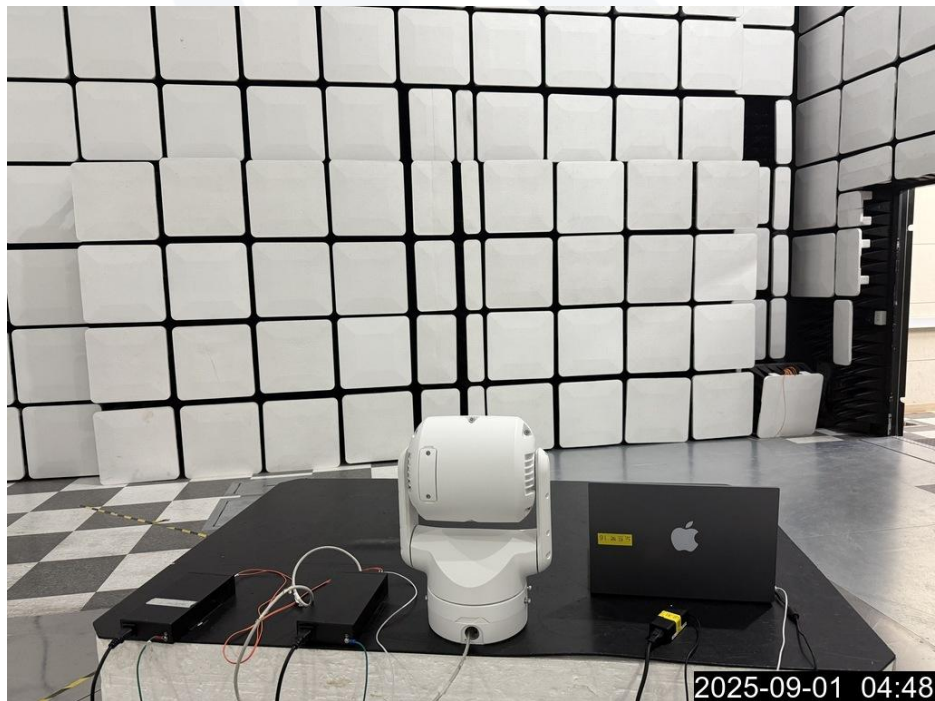
<Conducted Emissions at Mains Power Ports - Front>



<Conducted Emissions at Mains Power Ports - Rear>



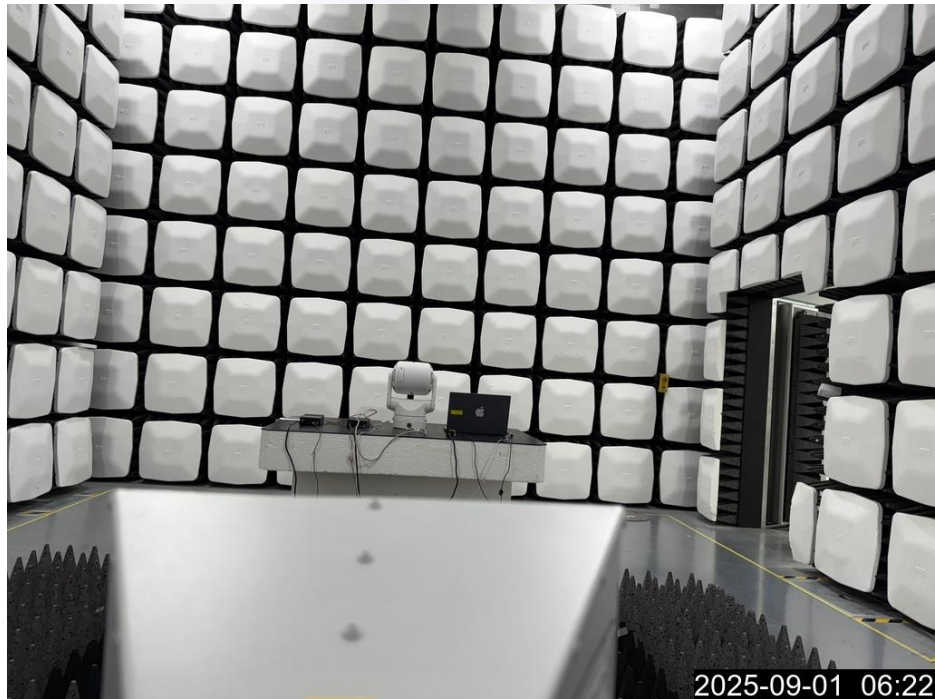
<Radiated Emissions(Below 1 GHz) - Front>



<Radiated Emissions(Below 1 GHz) - Rear>



<Radiated Emissions(Above 1 GHz) - Front>



<Radiated Emissions(Above 1 GHz) - Rear>



7.2 EUT Photographs



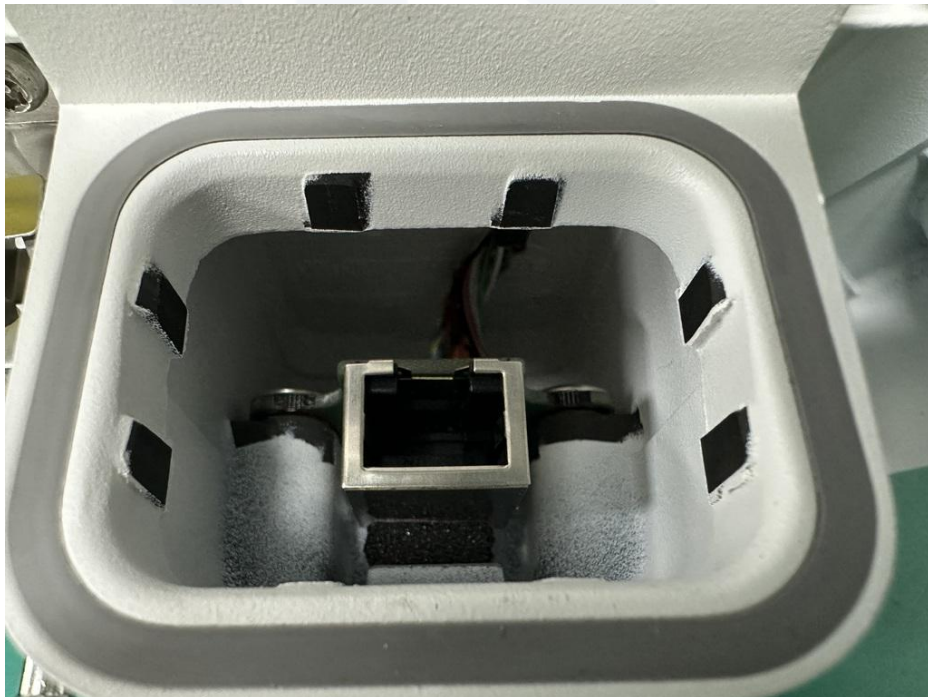
<EUT External Photographs - Top>



<EUT External Photographs - Bottom>



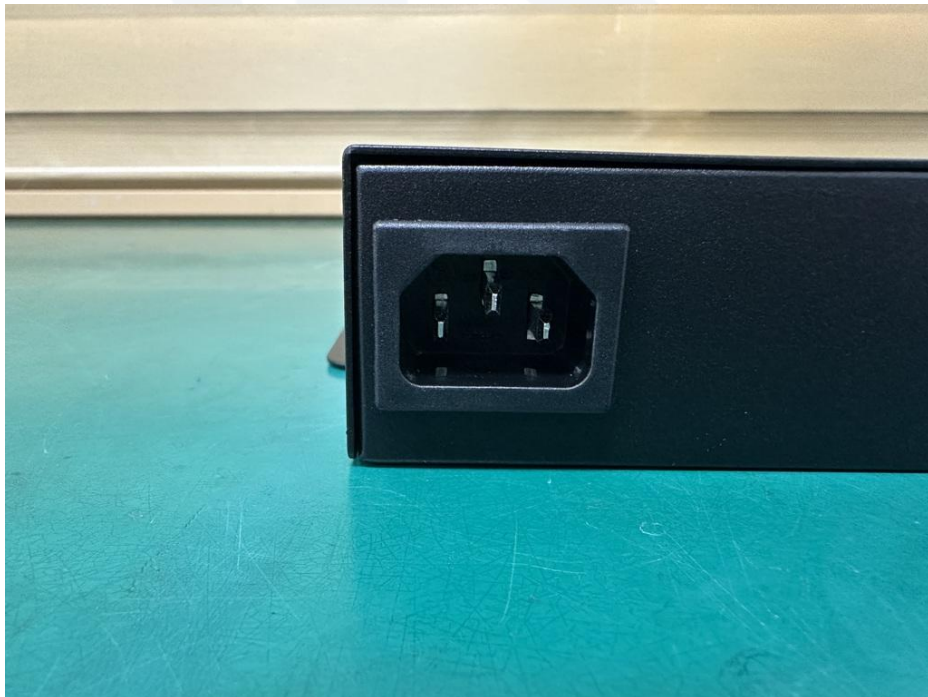
<Components>



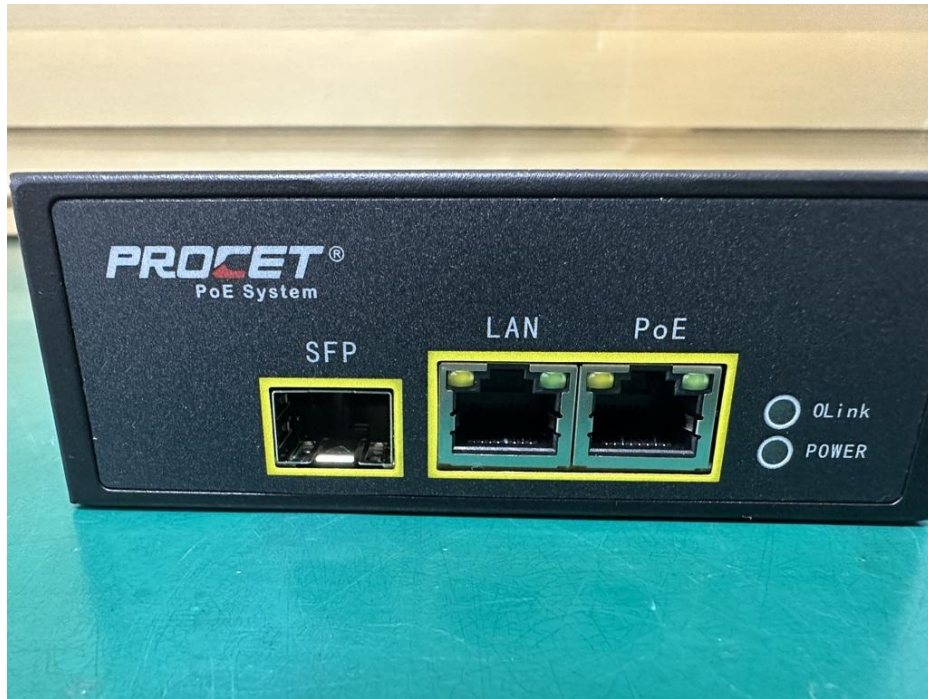
<Port-1> Main body



<Port-2> Main body



<Port-3> Components



<Port-4> Components



<EUT Internal Photographs>



7.3 Label

	Name : Hanwha Vision Co., Ltd. Product item : NETWORK CAMERA Model name : TNP-A9430RW
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.	
The above label is only an example. The specific format is left to the manufacturer to decide, as long as the label includes the required information, in accordance with ICES-Gen. The requirements specified in ICES-Gen shall apply. An example ISED compliance label, to be placed on each unit of an equipment model (or in the user manual, if allowed), is given below:	
CAN ICES-003(A) / NMB-003(A)	

The End.