



TEST REPORT



Report No. : KES-EM244031

Page 1 / 34

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 : NETWORK CAMERA

Model/Type No. : QNF-C9010

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 : Nov. 20, 2024

4. Test date : Nov. 23, 2024 ~ Nov. 24, 2024

5. Date of Issue : Jan. 06, 2025

6. Test Results : In Compliance

Tested by

Reviewed by

Dong Yun, Lee
EMC Test Engineer

Dae Jung, Choi
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
Jan. 06, 2025	KES-EM244031	Issued

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TABLE OF CONTENTS

1.0	General Product Description.....	4
1.1	Test Voltage & Frequency	8
1.2	Variant Model Differences	8
1.3	Device Modifications	8
1.4	Equipment Under Test	8
1.5	Support Equipments	8
1.6	External I/O Cabling.....	9
1.7	EUT Operating Mode(s).....	9
1.8	Configuration.....	9
1.9	Remarks when standards applied	10
1.10	Calibration Details of Equipment Used for Measurement	10
1.11	Test Facility	10
1.12	Laboratory Accreditations and Listings	11
2.0	Test Regulations	12
2.1	Conducted Emissions at Mains Power Ports.....	13
2.2	Radiated Electric Field Emissions(Below 1 GHz).....	15
2.3	Radiated Electric Field Emissions(Above 1 GHz)	17
APPENDIX A – TEST DATA		19
Conducted Emissions at Mains Power Ports		19
Radiated Electric Field Emissions(Below 1 GHz)		21
Radiated Electric Field Emissions(Above 1 GHz).....		23
Test Setup Photos and Configuration.....		25
Conducted Emissions at Mains Power Ports		25
Radiated Electric Field Emissions(Below 1 GHz)		26
Radiated Electric Field Emissions(Above 1 GHz).....		27
EUT External Photographs.....		28
EUT Internal Photographs.....		29



1.0 General Product Description

Main Specifications of EUT are:

Division		Specificity
Internal highest clock frequency		1.866 MHz
Power	Rated Power	PoE (PoE Adapter)
	Test Power	AC 120 V, 60 Hz
Ports	I/O Port	RJ-45 1 EA, Micro SD Card Slot 1 EA
	Unused Port	Micro 5 Pin USB 1 EA
Components		EUT 1 EA
Ethernet Speed		100 Mbps



Video	
Imaging Device	1/1.6" 12MP CMOS
Resolution	Overview : 3008x3008, 2560x2560, 1920x1920, 1504x1504, 1280x1280, 800x800, 640x640, 480x480 Double panorama: 3584x1792, 1920x960, 1280x640, 1024x512, 640x320 Single panorama: 3584x896, 1920x480, 1280x320, 1024x256, 640x160 Quad view: 3584x2688, 2048x1536, 1792x1344, 1024x768, 768x576, 512x384 Q1/Q2/Q3/Q4(4:3): 1792x1344, 1024x768, 768x576, 512x384
Max. Framerate	Original view: Max.20fps@3008x3008, Double panorama: Max.20fps@3584x1792 Single panorama: Max.20fps@3584x896 Quad view: Max.20fps@3584x2688 Q1/Q2/Q3/Q4(4:3): Max.20fps@1792x1344 MJPEG: Max.5fps
Video Out	USB: Micro USB Type B, 1280x720 for installation
Lens	
Focal Length (Zoom Ratio)	1.76mm fixed focal
Max. Aperture Ratio	F1.8
Angular Field of View	H: 185° / V: 185° / D: 185°
Min. Object Distance	0.5m(1.64ft)
Pan / Tilt / Rotate	
Pan / Tilt / Rotate Range	Digital Rotation
Operational	
Camera Title	Displayed up to 85 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, WDR, SDR
Wide Dynamic Range	120dB
Digital Noise Reduction	SSNR V, WiseNR II(Based on AI engine)
Motion Detection	8ea, 8point polygonal zones
Privacy Masking	32ea, 4point quadrangle zones
Gain Control	Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
LDC	Support
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (1/5~1/12,000sec)
Digital PTZ	Support
Video Rotation	Flip, Mirror



Analytics	Classified object type: Person/Vehicle Attributes: Person(Upper/lower clothes color), Vehicle(color) Support BestShot Analytics events based on AI engine - Motion detection*, Object detection, Virtual line*(Crossing/Direction), Virtual area*(Loitering/Intrusion/Enter/Exit/Appear/Disappear) Analytics events - Defocus detection, Tampering * Some of the video analytics only works with people and vehicle detection
Business Intelligence	Based on AI engine: People counting, Queue management, Heatmap
Alarm Triggers	Analytics, Network disconnect
Alarm Events	When alarm trigger occurred - File upload(image) : e-mail/FTP/SFTP - Notification : e-mail - Recording : SD/SDHC/SDXC or NAS recording at event triggers - Handover(PTZ preset, Send message by HTTP/HTTPS/TCP) - MQTT: publication
Network	
Ethernet	RJ-45(10/100BASE-T)
Video Compression	H.265/H.264: Main/High, MJPEG
Audio Compression	None
Smart Codec	Manual(Sea area), WiseStreamIII(Based on AI engine)
Video Quality Adjustment	H.264/H.265: Target bitrate level control MJPEG: Quality Level control
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast(20 users) / Multicast Multiple streaming(Up to 5 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), MQTT
Application Programming Interface	ONVIF Profile S/G/T/M SUNAPI(HTTP API) Hanwha Vision Open Platform



Report No. : KES-EM244031

Security	
OS / Firmware Protect	Secure boot, Signed firmware, Firmware encryption
User authentication	Digest Authentication, Prevent brute-force attack
Network authentication	802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2)
Secure Communication	HTTPS, SRTP, WSS(Websocket secure)
Access Control	Access control based on IP address
Data Protect	Authentication information encryption, ZIP compression encryption
Audit	User Access/System/Event log management
Device ID	Device Certificate(Hanwha Private Root CA)
Secure Storage	SDcard partition encrypt
Security Certificate	Secure by default
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 256GB
Memory	2GB RAM, 1GB Flash
Environmental & Electrical	
Operating Temperature / Humidity	-10°C~+40°C(+14°F ~ +104°F) / 0~90% RH
Storage Temperature / Humidity	-50°C~+60°C(-58°F ~ +140°F) / 0~90% RH
Certification	IP42
Input Voltage	PoE(IEEE802.3af, Class3)
Power Consumption	PoE: Max 7.3W, typical 4.3W
Mechanical	
Color / Material	White / Aluminum
RAL Code	RAL9003
Product Dimensions / Weight	ø99x52mm(ø3.9x2.05"), 360g(0.79lb)
Hanging Mount (Dome)	SBP-099HMMW

Certifications & Standards	
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
Safety	UL 62368-1, CAN/CSA C22.2 NO. 62368-1 IEC/EN 62471
Environment	IEC/EN 63000 IEC/EN 60529 IP42
Compatible Models	
Hanging Adaptor	SBP-099HMMW
Ceiling Mount (Assy)	SBP-150CMI/300CMI, SBP-300CMW1/900CMW, SBP-300CMTW, SBP-300CMTS
Ceiling Mount (Single Unit)	SBP-140CMB/180CMB/180CMS, SBP-150CMP/300CMP/900CMP, SBP-C15P, SBP-C15H
Wall Mount	SBP-125WMW1, SBP-250WMW, SBP-400WMW, SBP-300WMW/300WMW1
Wall Mount Adaptor	SBP-115PFA, SBP-300BW1
Pole Mount	SBD-140PMB, SBP-300PMW2
In-ceiling Mount	SHD-1128FPW
Corner Mount	SBD-140KMB, SBP-156KMW, SBP-300KMW1
Parapet Mount	SBP-300LMW, SBP-156LMW1
Tilt Mount	SBV-099TMW
Cabinet	SBP-300NBW
Gang Plate	SBD-110GP1
DORI (EN62676-4 standard)	
Detect (25PPM/ 8PPF)	36.9m(121.03ft)
Observe (63PPM/ 19PPF)	14.8m(48.42ft)
Recognize (125PPM/ 38PPF)	7.4m(24.21ft)
Identify (250PPM/ 76PPF)	3.7m(12.10ft)



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 (PoE Adapter Input Power)

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
NETWORK CAMERA	QNF-C9010	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
PoE Adapter	PT-PSE109GBRO-AH-S	-	Dongguan PROCET Network Technology Co.,Ltd	-
Notebook	LG15U47	-	Tech-Front (Chongqing) Computer Co., Ltd.	-
Notebook Adapter	A13-040N3A	-	CHICONY POWER TECHNOLOGY (Chongqing) CO., LTD.	-
Micro SD Card	-	-	-	-



1.6 External I/O Cabling

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
NETWORK CAMERA (EUT)	RJ-45 (PoE)	PoE Adapter	RJ-45 (PoE)	3.1	U
	Micro SD Card Slot	Micro SD Card	Micro SD Card Slot	-	-
PoE Adapter	RJ-45 (LAN)	Notebook	RJ-45 (LAN)	1.8	U

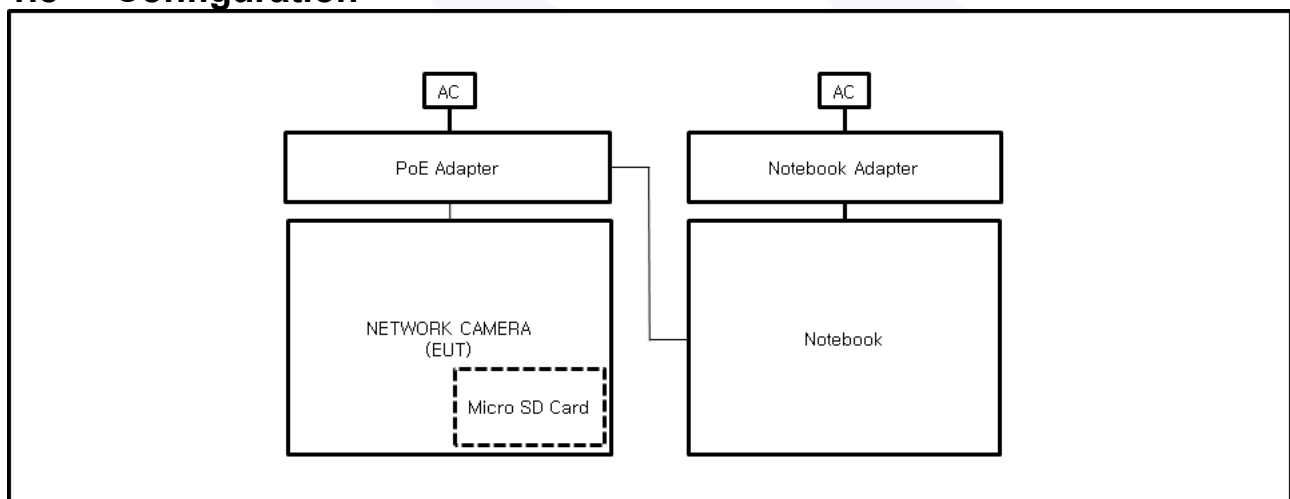
* Unshielded=U, Shielded=S

1.7 EUT Operating Mode(s)

Test mode	Normal operating
Operating	- IP from the test equipment to the laptop was tested by Ping Test on the laptop. - The test was conducted by checking whether the camera image was output normally in the Web Viewer. - After the test, I checked whether the video was recorded normally on the Micro SD Card.

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

- Micro 5 Pin USB Port is not tested because it is for unused port.



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 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

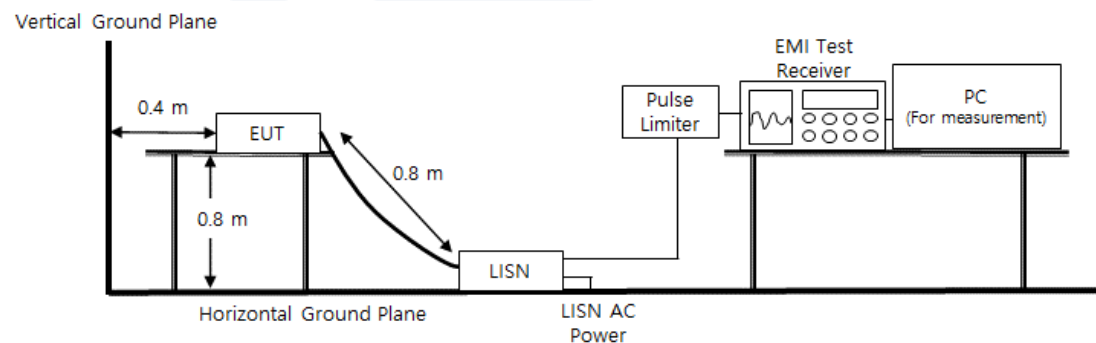
Nov. 24, 2024

Test Location

Electro wave Shieldroom #6

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test S/W	EMC32	R & S	9.12.00	-
☒	EMI TEST RECEIVER	ESR3	R & S	101783	11, 06, 2025
☒	LISN	ENV216	R & S	101786	01, 10, 2025
☒	LISN	ESH2-Z5	R & S	100450	11, 06, 2025
☒	PULSE LIMITER	ESH3-Z2	R & S	101915	11, 06, 2025

Diagram of test setup



Test Conditions

Temperature: (22,4 ± 0,1) °C
Relative Humidity: (46,0 ± 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

Nov. 23, 2024

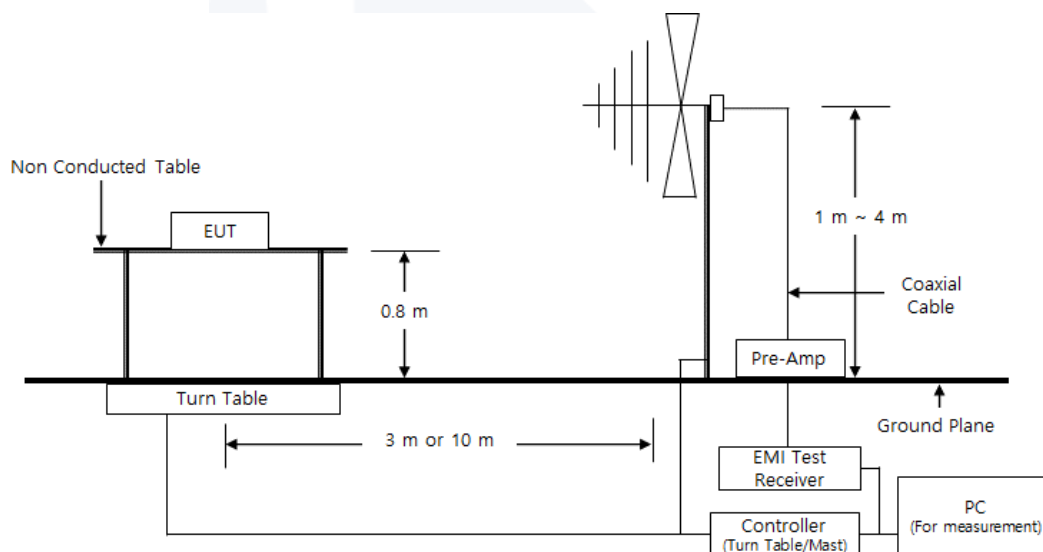
Test Location

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

Test Equipment

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

Diagram of test setup





Test Conditions

Temperature: (22,4 ± 0,2) °C
Relative Humidity: (45,5 ± 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

Nov. 23, 2024

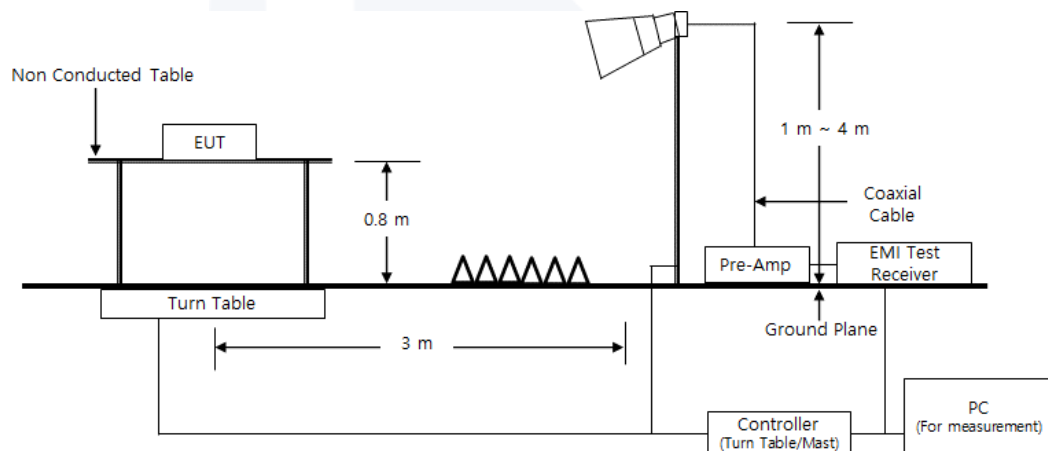
Test Location

SEMI ANECHOIC CHAMBER #5

Test Equipment

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

Diagram of test setup





Test Conditions

Temperature: (23,0 ± 0,2)°C
Relative Humidity: (45,1 ± 0,2) % R.H.

Frequency Range of Measurement

1 GHz to 6 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.



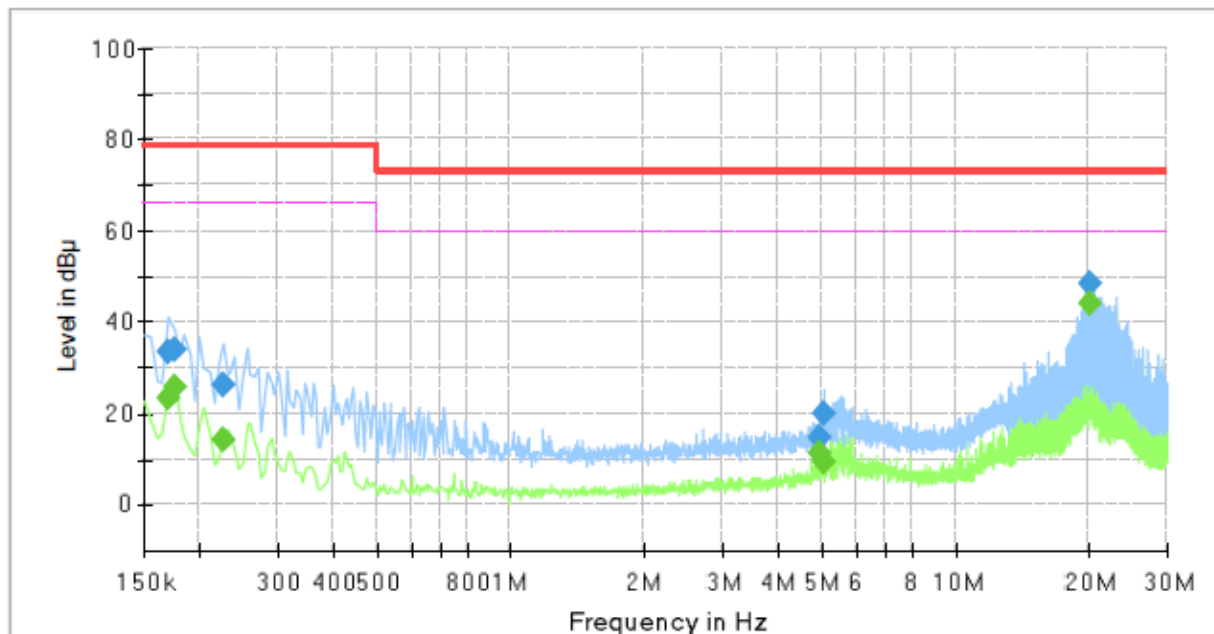
APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

HOT LINE

Common Information

Test Description: Conducted Emission
Job No.: KES-EM244031
Phase: L
Mode:
Operator Name: KES



Final Result

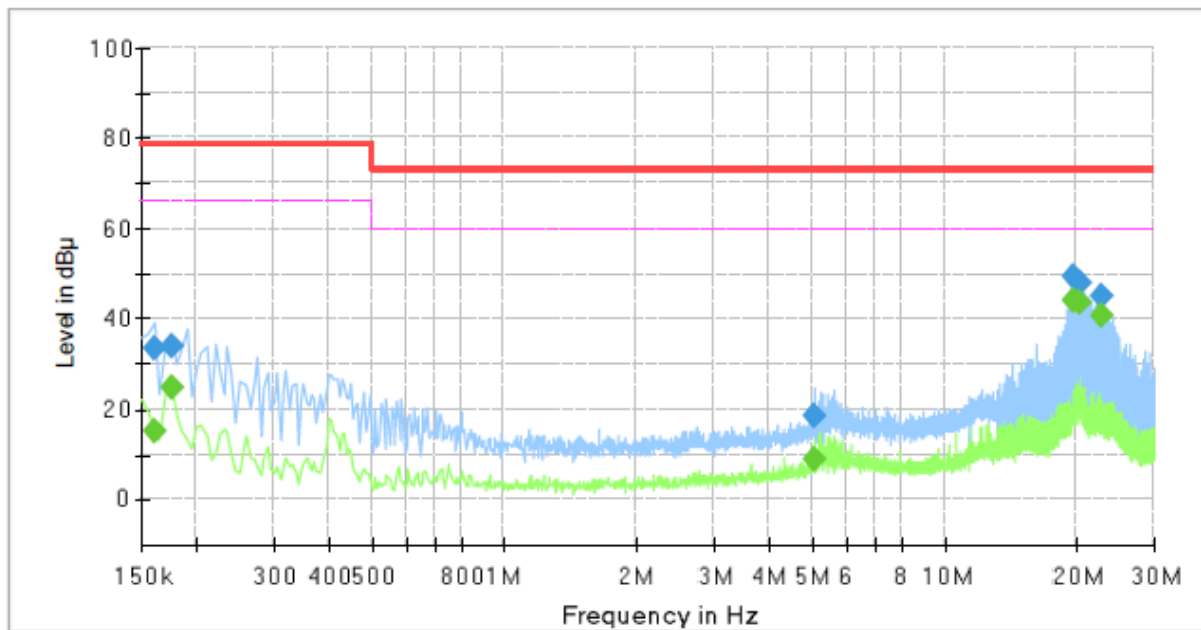
Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.170000	33.38	---	79.00	45.62	1000.0	9.000	L1	19.6
0.170000	---	23.18	66.00	42.82	1000.0	9.000	L1	19.6
0.175000	33.92	---	79.00	45.08	1000.0	9.000	L1	19.6
0.175000	---	25.55	66.00	40.45	1000.0	9.000	L1	19.6
0.225000	26.41	---	79.00	52.59	1000.0	9.000	L1	19.6
0.225000	---	14.20	66.00	51.80	1000.0	9.000	L1	19.6
4.985000	---	11.34	60.00	48.66	1000.0	9.000	L1	19.9
4.985000	14.42	---	73.00	58.58	1000.0	9.000	L1	19.9
5.055000	---	9.14	60.00	50.86	1000.0	9.000	L1	19.9
5.055000	19.80	---	73.00	53.20	1000.0	9.000	L1	19.9
20.165000	---	43.96	60.00	16.04	1000.0	9.000	L1	20.4
20.165000	48.37	---	73.00	24.63	1000.0	9.000	L1	20.4



NEUTRAL LINE

Common Information

Test Description: Conducted Emission
Job No.: KES-EM244031
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)
0.160000	33.38	---	79.00	45.62	1000.0	9.000	N	19.5
0.160000	---	14.87	66.00	51.13	1000.0	9.000	N	19.5
0.175000	33.91	---	79.00	45.09	1000.0	9.000	N	19.5
0.175000	---	24.59	66.00	41.41	1000.0	9.000	N	19.5
5.055000	18.70	---	73.00	54.30	1000.0	9.000	N	19.9
5.055000	---	8.94	60.00	51.06	1000.0	9.000	N	19.9
19.710000	49.29	---	73.00	23.71	1000.0	9.000	N	20.4
19.710000	---	44.25	60.00	15.75	1000.0	9.000	N	20.4
20.390000	48.02	---	73.00	24.98	1000.0	9.000	N	20.4
20.390000	---	43.41	60.00	16.59	1000.0	9.000	N	20.4
22.885000	---	40.62	60.00	19.38	1000.0	9.000	N	20.5
22.885000	45.02	---	73.00	27.98	1000.0	9.000	N	20.5

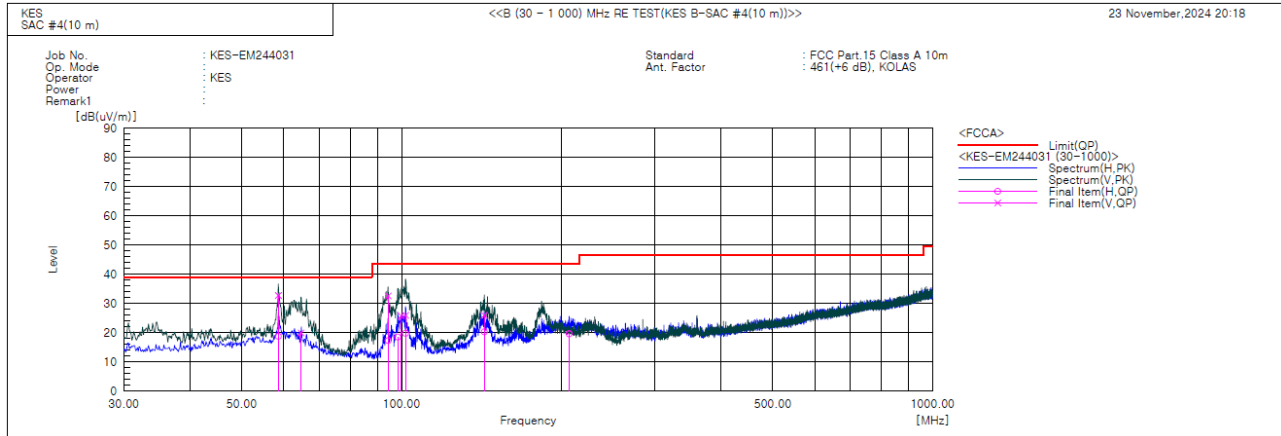
◆ Calculation

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

QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

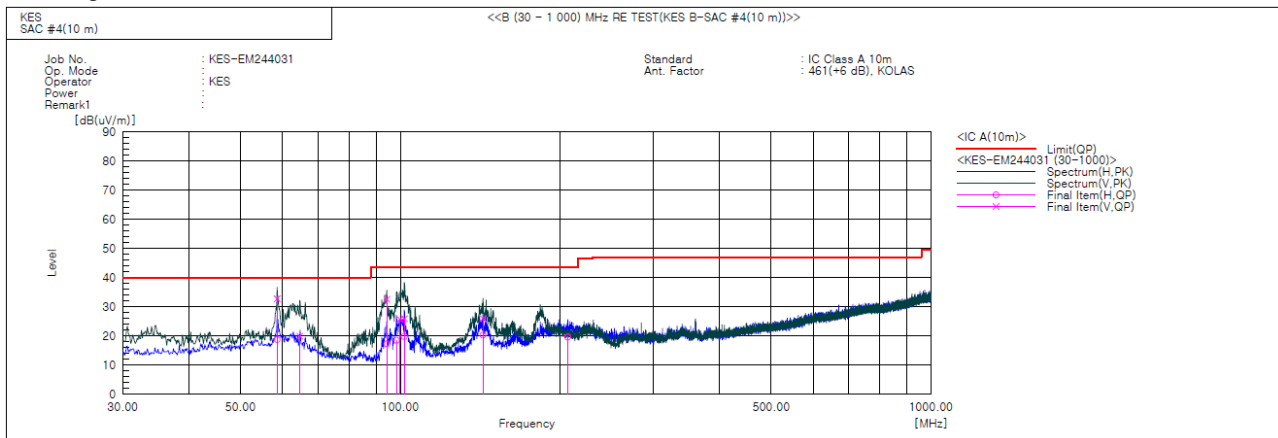
Corr. : Correction values (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

**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	58.615	V	54.1	-21.4	32.7	39.0	6.3	105.0	263.0	
2	58.617	H	40.2	-21.4	18.8	39.0	20.2	397.0	179.0	
3	64.678	V	41.8	-21.9	19.9	39.0	19.1	101.0	102.0	
4	94.382	V	58.5	-25.9	32.6	43.5	10.9	119.0	221.0	
5	94.384	H	43.2	-25.9	17.3	43.5	26.2	396.0	104.0	
6	98.385	H	43.8	-25.3	18.5	43.5	25.0	392.0	149.0	
7	99.840	V	50.7	-25.0	25.7	43.5	17.8	113.0	285.0	
8	101.780	H	44.5	-24.7	19.8	43.5	23.7	390.0	186.0	
9	101.784	V	50.6	-24.7	25.9	43.5	17.6	108.0	259.0	
10	143.246	V	45.9	-19.9	26.0	43.5	17.5	111.0	248.0	
11	143.248	H	40.2	-19.9	20.3	43.5	23.2	368.0	291.0	
12	206.783	H	41.5	-21.9	19.6	43.5	23.9	212.0	201.0	



- 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	58.615	V	54.1	-21.4	32.7	40.0	7.3	105.0	263.0	
2	58.617	H	40.2	-21.4	18.8	40.0	21.2	397.0	179.0	
3	64.678	V	41.8	-21.9	19.9	40.0	20.1	101.0	102.0	
4	94.382	V	58.5	-25.9	32.6	43.5	10.9	119.0	221.0	
5	94.384	H	43.2	-25.9	17.3	43.5	26.2	396.0	104.0	
6	98.385	H	43.8	-25.3	18.5	43.5	25.0	392.0	149.0	
7	99.840	V	50.7	-25.0	25.7	43.5	17.8	113.0	285.0	
8	101.780	H	44.5	-24.7	19.8	43.5	23.7	390.0	186.0	
9	101.784	V	50.6	-24.7	25.9	43.5	17.6	108.0	259.0	
10	143.246	V	45.9	-19.9	26.0	43.5	17.5	111.0	248.0	
11	143.248	H	40.2	-19.9	20.3	43.5	23.2	368.0	291.0	
12	206.783	H	41.5	-21.9	19.6	43.5	23.9	212.0	201.0	

◆ Calculation

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

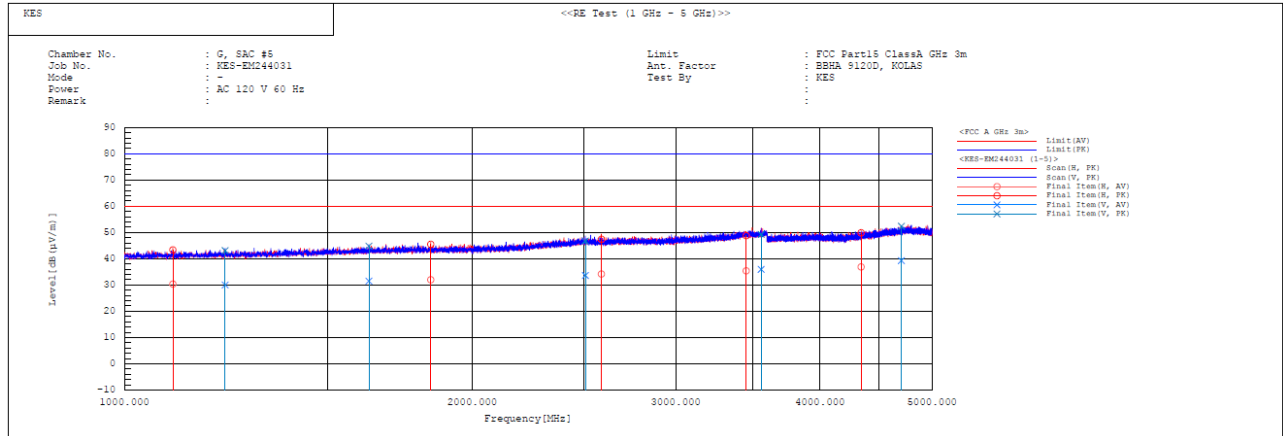
Reading(QP) : Reading value, Result(QP) : Reading value + Factor value

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 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]	Remark
1	1101.620	H	31.5	44.5	-1.1	30.4	43.4	60.0	80.0	29.6	36.6	214.0	358.3	
2	1222.741	V	30.4	43.5	-0.4	30.0	43.1	60.0	80.0	30.0	36.9	393.0	294.2	
3	1628.257	V	30.0	43.3	1.5	31.5	44.8	60.0	80.0	28.5	35.2	119.0	24.0	
4	1841.510	H	29.8	43.3	2.2	32.0	45.5	60.0	80.0	28.0	34.5	388.0	296.6	
5	2506.171	V	28.7	41.8	4.9	33.6	46.7	60.0	80.0	26.4	33.3	254.0	310.8	
6	2587.645	H	29.0	42.2	5.2	34.2	47.4	60.0	80.0	25.8	32.6	114.0	0.1	
7	3452.541	H	28.5	41.9	6.9	35.4	48.8	60.0	80.0	24.6	31.2	390.0	84.1	
8	3558.656	V	28.8	42.1	7.2	36.0	49.3	60.0	80.0	24.0	30.7	155.0	166.0	
9	4342.175	H	27.3	40.3	9.6	36.9	49.9	60.0	80.0	23.1	30.1	397.0	215.4	
10	4704.236	V	28.2	41.3	11.1	39.3	52.4	60.0	80.0	20.7	27.6	167.0	173.3	



(5 ~ 9) 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)
6 674.400	41.400	H	1.000	34.740	9.290	34.750	50.680	80.000	29.320
8 712.800	40.700	V	1.000	37.410	10.780	33.860	55.030	80.000	24.970

- 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)
6 674.400	27.600	H	1.000	34.740	9.290	34.750	36.880	60.000	23.120
8 712.800	27.500	V	1.000	37.410	10.780	33.860	41.830	60.000	18.170

◆ Calculation

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

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



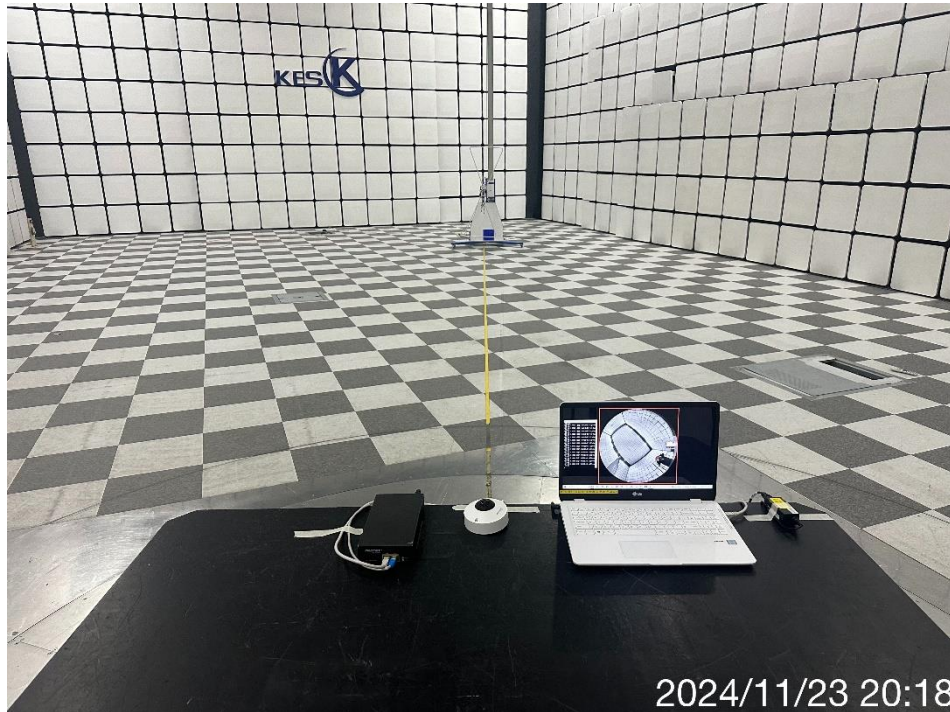
Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports



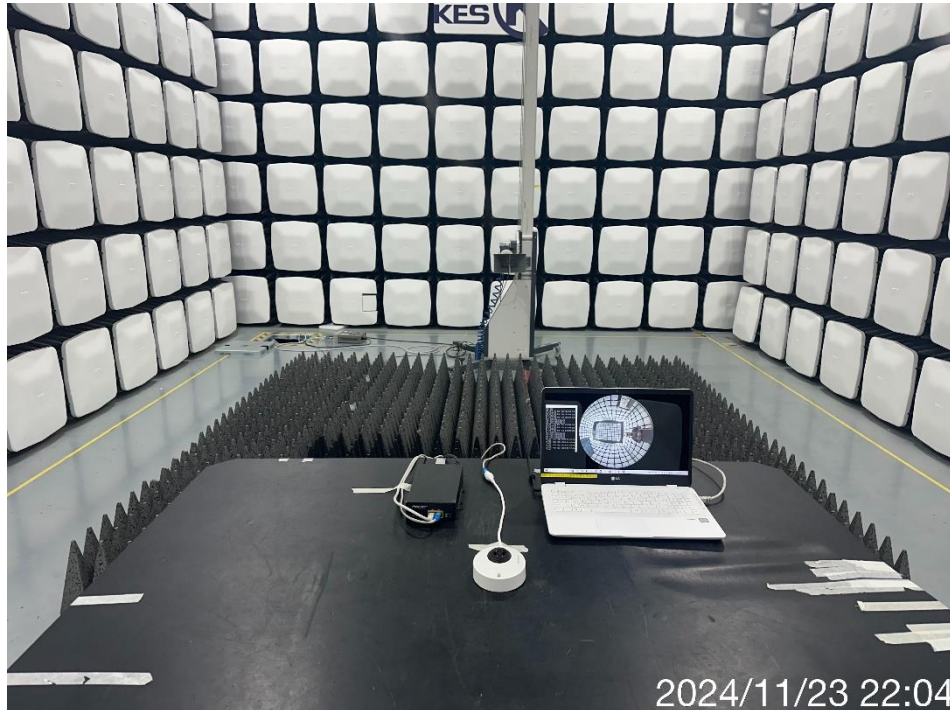


Radiated Electric Field Emissions(Below 1 GHz)





Radiated Electric Field Emissions(Above 1 GHz)





EUT External Photographs

(Top)



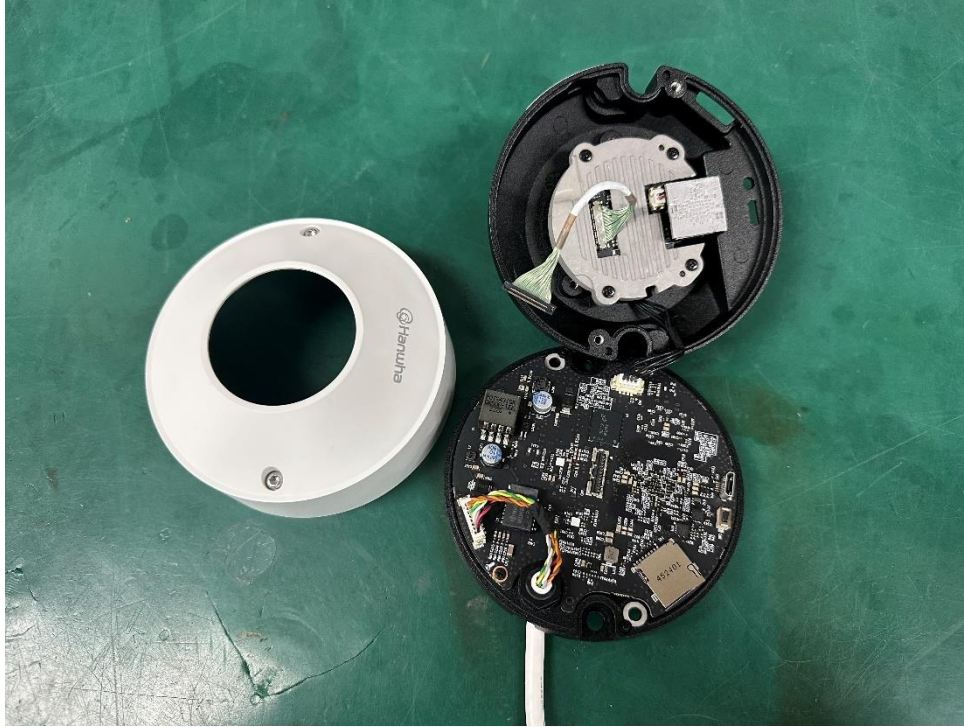
(Bottom)





EUT Internal Photographs

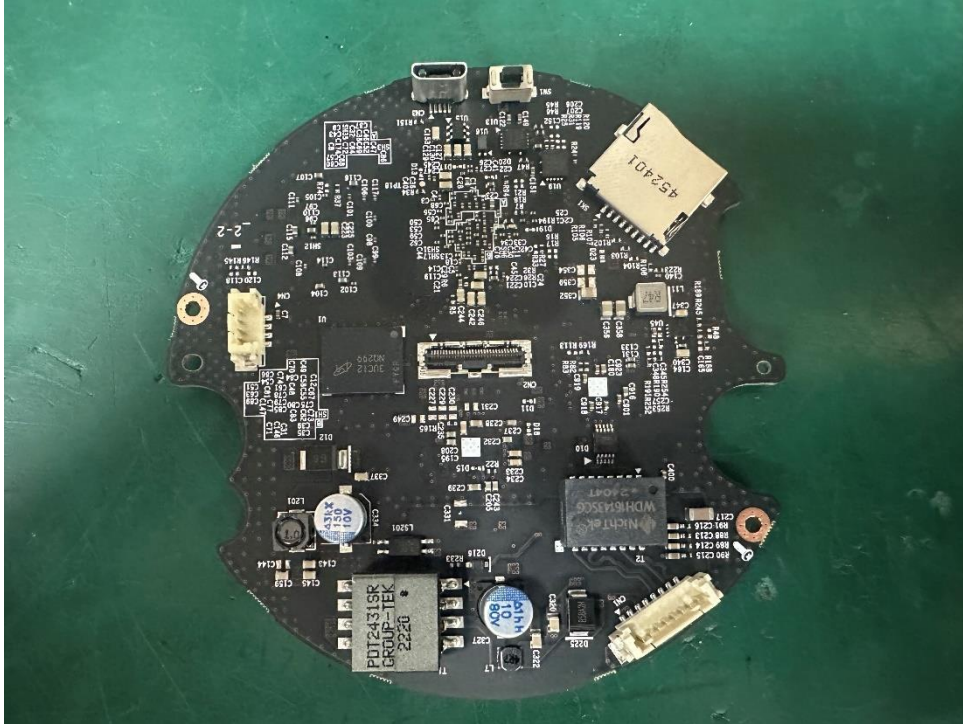
(Internal View)



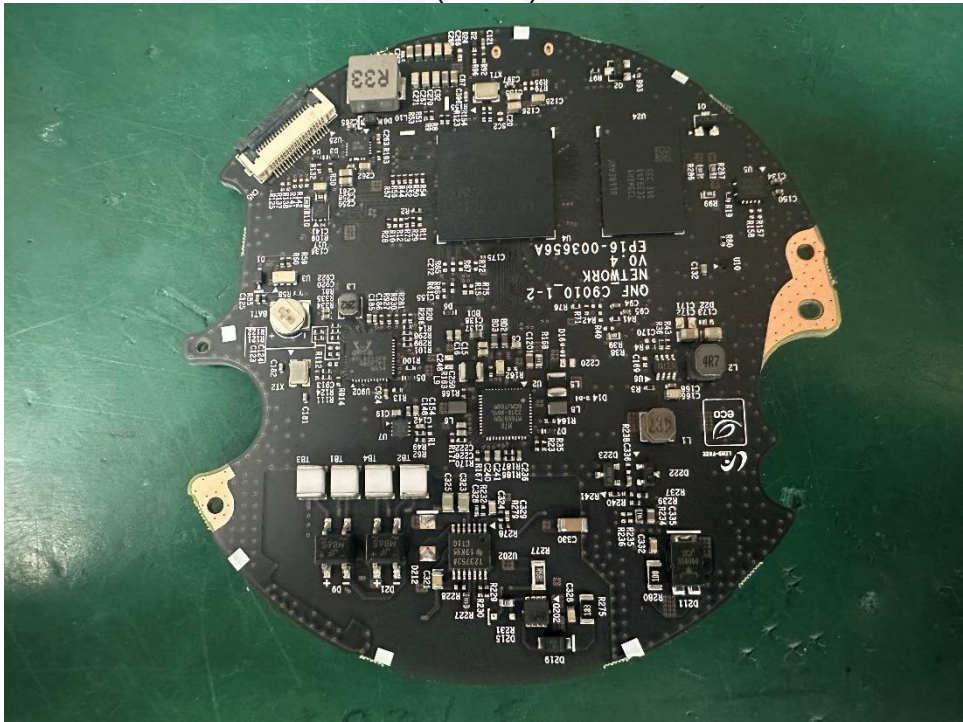


EUT Internal View – Main Board

(Top)



(Bottom)



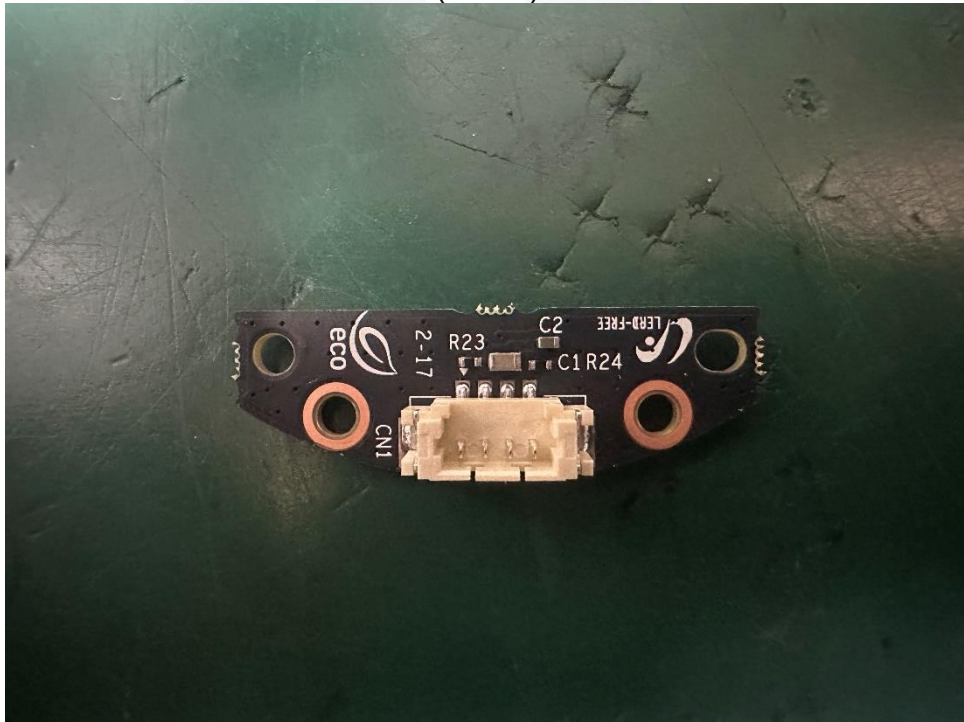


EUT Internal View – Sensor Board

(Top)



(Bottom)





EUT Internal View – Camera

(Top)



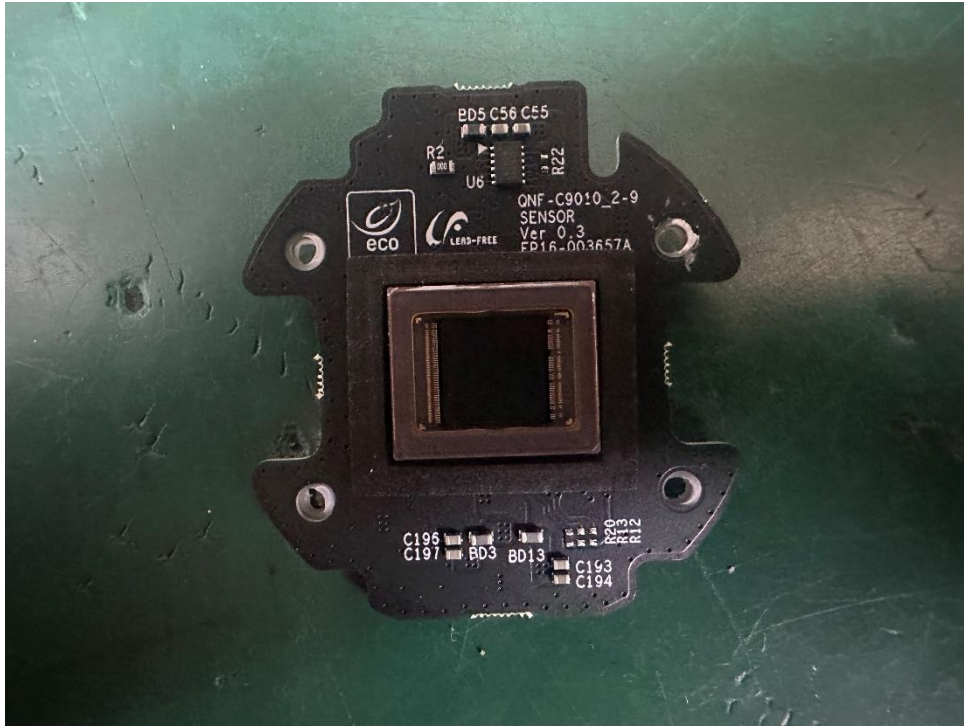
(Bottom)



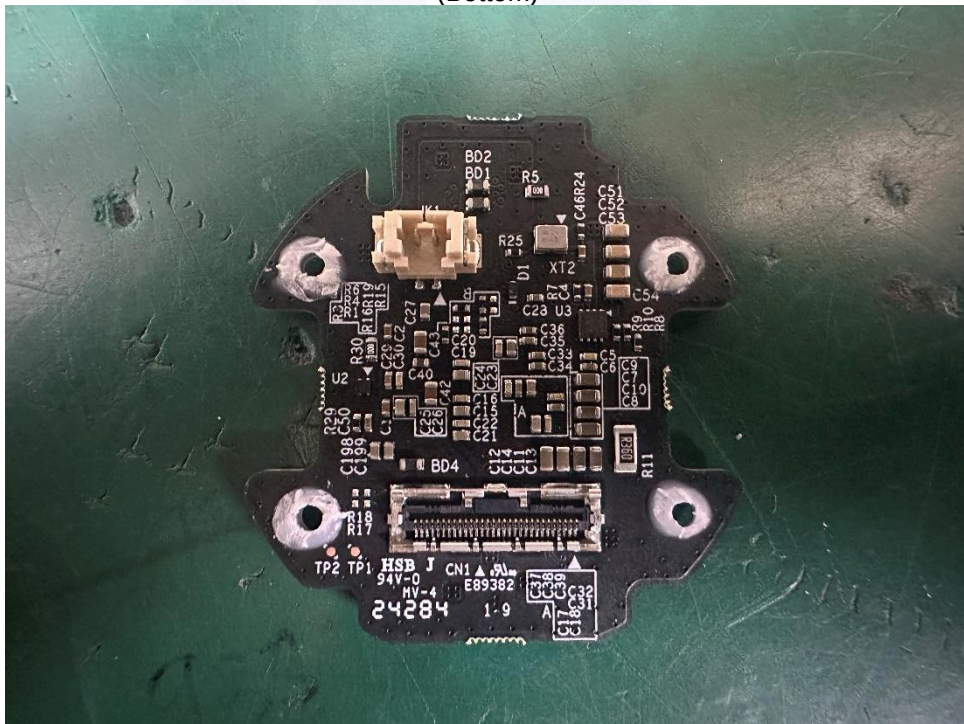


EUT Internal View – Camera board

(Top)



(Bottom)





Label Photographs

FCC Label



NETWORK CAMERA

QNF-C9010

IC Label

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

This device complies with Industry Canada license-exempt RSS standard(s). 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement

The End.