



TEST REPORT



Report No. : KES-EM241384

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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 : NETWORK CAMERA

Model/Type No. : PNM-C16083RQZ

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 : Apr. 29, 2024

4. Test date : May. 27, 2024 ~ May. 28, 2024

5. Date of Issue : Jun. 25, 2024

6. Test Results : In Compliance

Tested by

Reviewed by

Dae Soo, Kim
EMC Test Engineer

Seong Min, Choi
EMC Assistant 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. 25, 2024	KES-EM241384	Issued

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1.0 General Product Description

Main Specifications of EUT are:

Highest internal Frequency : 2.5 GHz

Video		Operational		
Imaging Device	1/2.8" CMOS x 4CH	Camera Title	Displayed up to 85 characters	
Resolution	2592x1520, 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240	Direction Indicator	None	
Max. Framerate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 30fps/25fps@4MP Max. 5fps	Day & Night	Auto(ICR)	
NETD	None	Backlight Compensation	BLC, WDR, SSOR	
Pixel Size	None	Wide Dynamic Range	120dB	
Min. Illumination	Color: 0.01Lux(F1.6, 1/30sec, 30IRE) BW: 0Lux(IR LED on)	Digital Noise Reduction	WiseNRII (Based on AI engine), SSNRV	
Video Out	None	Digital Image Stabilization	None	
Video Transmission Distance	None	Defog	Support	
Lens		Motion Detection	8ea, 8point Polygonal zones	
Focal Length (Zoom Ratio)	3.3~10.2mm(3.1x) motorized varifocal	Privacy Masking	6ea, 4point Polygonal zones - Color: Gray/Black/White	
Max. Aperture Ratio	F1.6(Wide)~F3.1(Tele)	Gain Control	Off / Low / Middle / High	
Angular Field of View	H: 93°(Wide)~29.8°(Tele) V: 53°(Wide)~17.5°(Tele) D: 111°(Wide)~34.6°(Tele)	White Balance	ATW / AWC / Manual / Indoor / Outdoor	
		LDC	Support	
		Electronic Shutter Speed	Minimum / Maximum / Anti flicker(1/5~1/12,000sec) prefer shutter control(Based on AI engine)	
		Digital PTZ	None	
Min. Object Distance	1.2m (3.93ft)	Video Rotation	Flip, Mirror, Hallway view(90°/270°) - each CH separately	
Focus Control	Simple focus	Analytics	Classified object type: Person/Face/Vehicle/License plate Attributes: Vehicle (Color and Type: Car/Bus/Truck/Motorcycle/Bicycle), Person (upper and bottom clothing color) Support BestShot Analytics events based on AI engine - Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit) Analytics events - Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Virtual area(Appear/Disappear)	
Lens Type	P-Iris		Business Intelligence	Not Support
Mount Type	None		Serial Interface	None
Optional Lens	None		Alarm I/O	2 configurable I/O ports * Support Alarm via optional SPM-4210 I/O box
Pan / Tilt / Rotate		Alarm Triggers	Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription, Tampering	
Pan / Tilt / Rotate Range	Remote adjustment (Max. 200cycles) 0°~360° / 30°~90° / 0°~90°	Alarm Events	When alarm trigger occurred - File upload(image): e-mail/FTP - Notification: e-mail - Recording: SD/SDHC/SDXC or NAS recording at event triggers - Alarm output - Handover: PTZ preset, send message by HTTP/HTTPS/TCP - MQTT: publication	
Pan Range	None		Audio In	* Support Audio via optional SPM-4210 I/O box
Pan Speed	None		Audio Out	* Support Audio via optional SPM-4210 I/O box
Tilt Range	None		IR Viewable Length	WiseIR 25m(82.02ft)
Tilt Speed	None	IR Illuminator (Optional)	None	
Rotate Range	None	Water Removal	None	
Sequence	None	Auto Tracking	None	
Preset Accuracy	None	Coaxial Protocol	None	
Radiometry		Color Palettes	None	
Temperature Detect Range	None	Mechanical		
Temperature Accuracy	None	Color / Material	White / Aluminum + PC	
Temperature Detection	None		Hard-coated dome bubble	
Additional	None	RAL Code	RAL9003	
Network		Product Dimensions / Weight		
Ethernet	Metal shielded RJ-45(10/100/1000BASE-T)	ø312.7x145.9mm(ø12.31x5.74") / under 4400g(9.7lb)		
Video Compression	H.265/H.264: Main/High, MJPEG	Compatible Conduit hole / Gangbox		
Audio Compression	None	19.1mm(3/4") (M25) single, double, 4" octagon, 4" square		
Smart Codec	Manual(Sea area), WiseStreamII, WiseStreamIII(Based on AI engine)	Hanging Mount (Dome)	SRP-317H MW	
Video Quality Adjustment	H.264/H.265: Target bitrate level control MJPEG: Target bitrate level control	Skin Cover (Dome)	None	
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR	Weather Cap (Dome)	None	
Streaming	Unicast(10 users) / Multicast Multiple streaming(Up to 3 profiles per CH)	Power Module	None	
Protocol	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT	Backbox	None	
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, WSS(Websocket secure) Access Control: IP address filtering Data Protect: Authentication information encryption, ZIP compression encryption Audit: User Access/System/Event log Device ID: Device Certificate(Ianahwa Vision Root CA, pre-installed) Secure Storage: TPM with FIPS 140-2 level2, Secure by default	Certifications & Standards		
		Network		
		EMC		
		Safety		
SIP support (VoIP, Peer-to-peer, SIP/P)	None	Environment		
Application Programming Interface	ONVIF Profile S/T/M SUNAPI(HTTP API) Wiseret open platform	Video		
General		DORI (EN62676-4 standard)		
Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Greek, Hungarian	Detect (25PPM/ 8PPF)		
Web Viewer	None	Observe (63PPM/ 19PPF)		
Edge Storage	Micro SD/SDHC/SDXC 2slot Max. 1TB(512GBx2)	Recognize (125PPM/ 38PPF)		
Memory	8GB RAM, 16GB eMMC	Identity (250PPM/ 76PPF)		
Environmental & Electrical				
Operating Temperature / Humidity	-40°C~+55°C(-40°F~+131°F) / 0~95% RH(non-condensing) * Start up should be done at above -35°C Humidity control /w AIR vent			
Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / 0~90% RH			
Certification	IP66, NEMA 4X, IK10			
Input Voltage	PoE + (IEEE802.3bt type3, Class6)			
Power Consumption	Max. 41W			

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

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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	PNM-C16083RQZ	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT
PoE Injector 1	PT-PSE109GBRO-AH-S	PT2402228137	Dongguan PROCET Network Technology Co., Ltd	R-R-LJ9-PSE109G BRO-A02

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
Laptop	LG15U56	605NZ8J002174	LG	-
Laptop Adapter	ADS-65AI-19-3	EAY65689605	SHENZHEN HONOR ELECTRONIC CO.,LTD.	-
LED Alarm	PRO-SL	-	SENSOR PRO	-
Button Alarm	-	-	-	-
Micro SD Card 1	-	-	SanDisk	-
Micro SD Card 2	-	-	SanDisk	-
PoE Injector 2	GS728TPP	-	NETGEAR	-



1.6 External I/O Cabling

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
NETWORK CAMERA (EUT)	Micro SD 1	Micro SD Card 1	Micro SD Slot	-	-
	Micro SD 2	Micro SD Card 2	Micro SD Slot	-	-
	PoE	PoE Injector 1 (EUT)	RJ-45 (PoE)	2.0	S
	ALARM OUT	LED Alarm	Alarm IN	3.1	U
	ALARM IN	Button Alarm	Alarm OUT	3.1	U
	GROUND	GROUND	GROUND	2.0	U
PoE Injector 1 (EUT)	RJ-45 (DATA)	Laptop	RJ-45	3.1	S
	SFP	PoE Injector 2	SFP	10.0	U
Laptop	DC jack	Laptop Adapter	DC jack	1.5	U

* Unshielded=U, Shielded=S

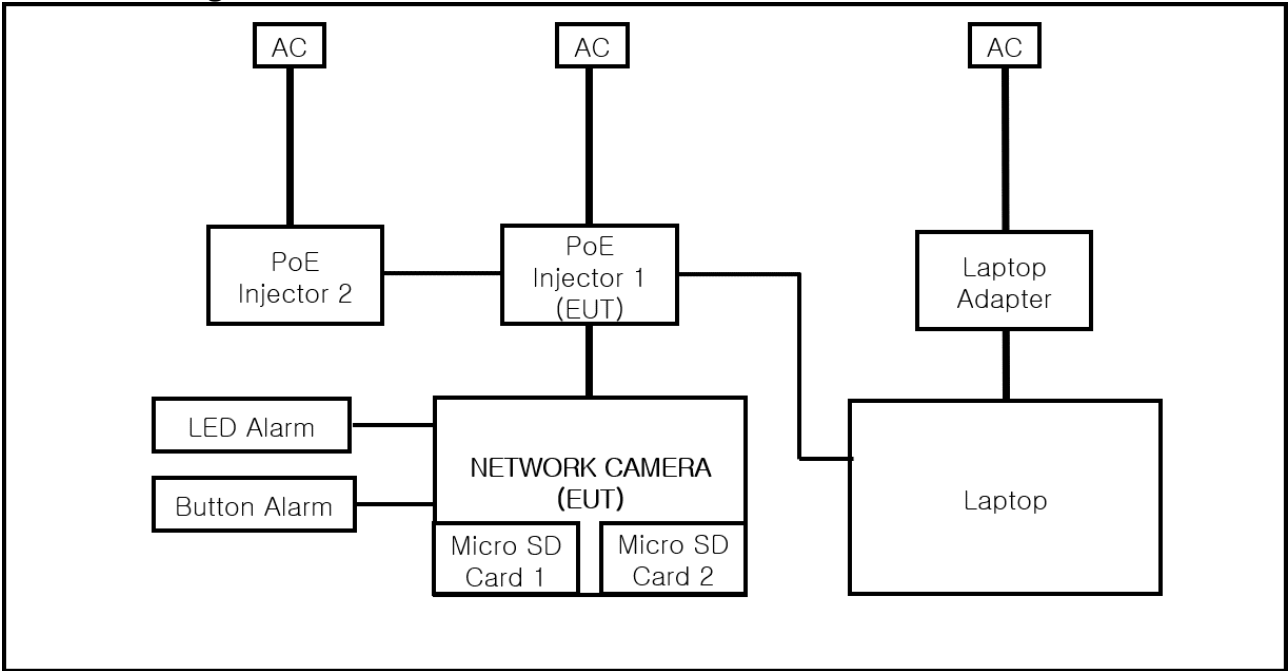
1.7 EUT Operating Mode(s)

Test mode	Normal operating	Test Voltages
Operating	Monitoring EUT Using Web Viewer, Ping Test	AC 120 V, 60 Hz

EUT Test operating S/W		
Name	Version	Manufacture Company
Web Viewer	-	Hanwha Vision Co., Ltd.



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 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

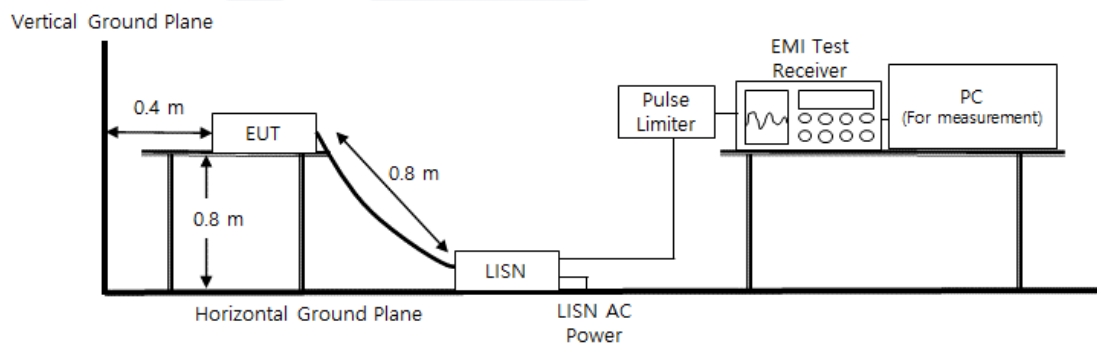
May. 28, 2024

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, 08, 2024
☒	LISN	ENV216	R & S	101787	11, 08, 2024
☒	LISN	ESH2-Z5	R & S	101137	01, 10, 2025
☒	PULSE LIMITER	ESH3-Z2	R & S	101915	11, 08, 2024

Diagram of test setup



Test Conditions

Temperature: (21,9 ± 0,0) °C
Relative Humidity: (45,8 ± 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)

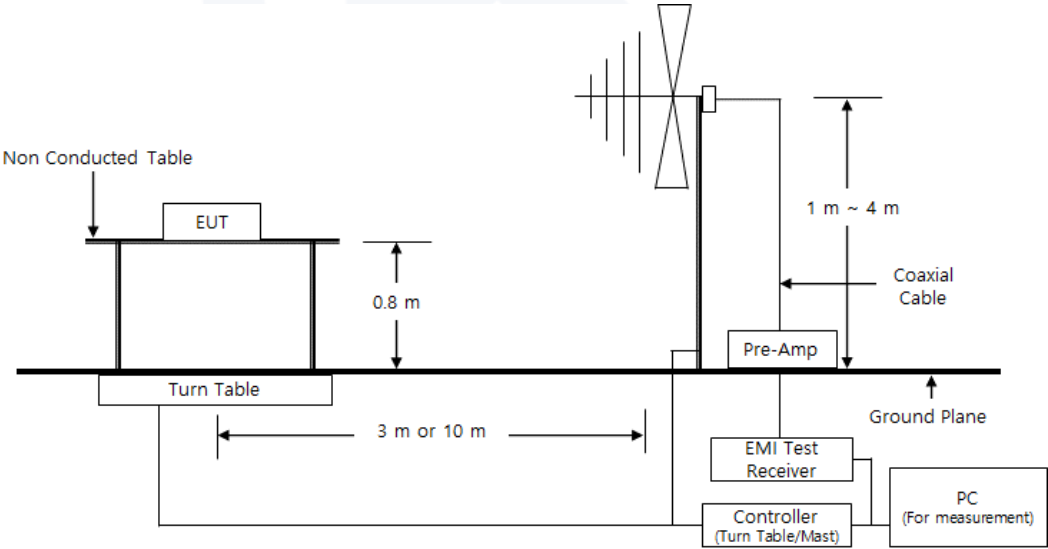
Test Date
May. 28, 2024

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, 08, 2024
☒	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	11, 17, 2024
☒	ATTENUATOR	8491A	HP	32173	02, 13, 2025

Diagram of test setup





Test Conditions

Temperature: $(22,5 \pm 0,1) ^\circ\text{C}$
Relative Humidity: $(46,0 \pm 0,1) \% \text{ R.H.}$

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)

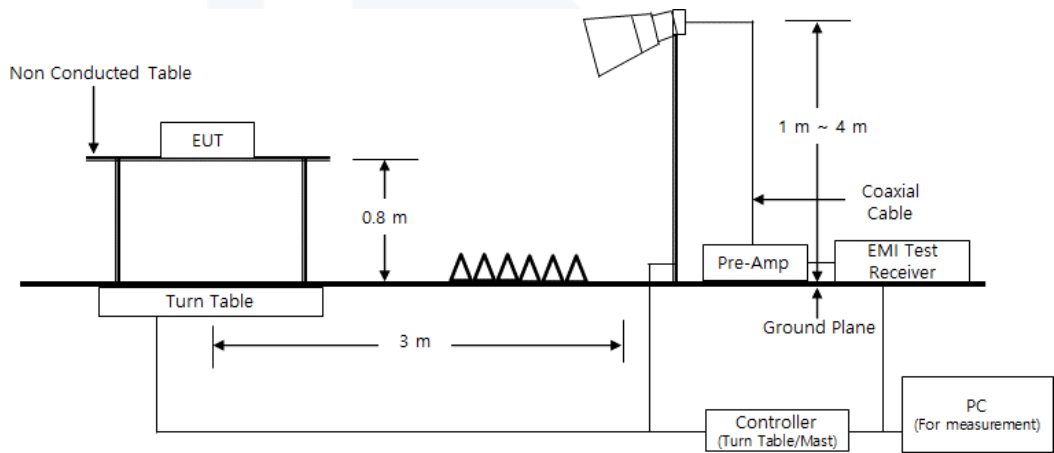
Test Date
May. 27, 2024

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, 03, 2024
☒	PREAMPLIFIER	8449B	HP	3008A00899	03, 05, 2025
☒	ATTENUATOR	8491B	HP	23094	02, 13, 2025

Diagram of test setup





Test Conditions

Temperature: (22,5 ± 0,1)°C
Relative Humidity: (48,0 ± 0,1) % 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.



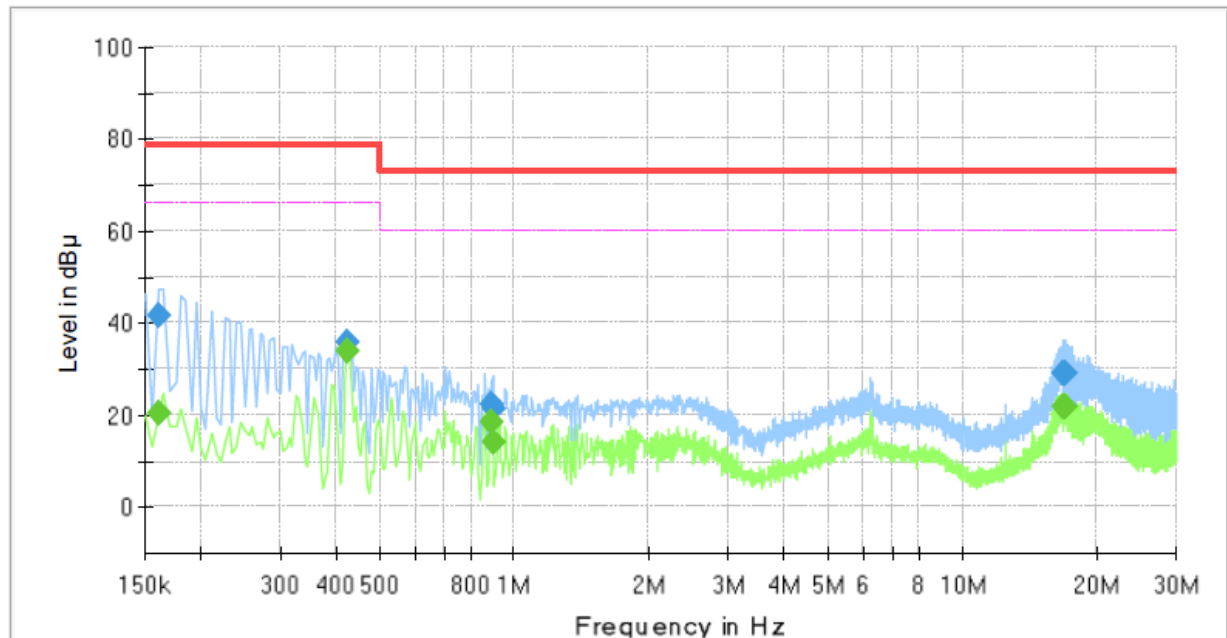
APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

HOT LINE

Common Information

Test Description: Conducted Emission
Job No.: KES-EM241384
Phase: L
Mode:
Operator Name: KES



Final Result

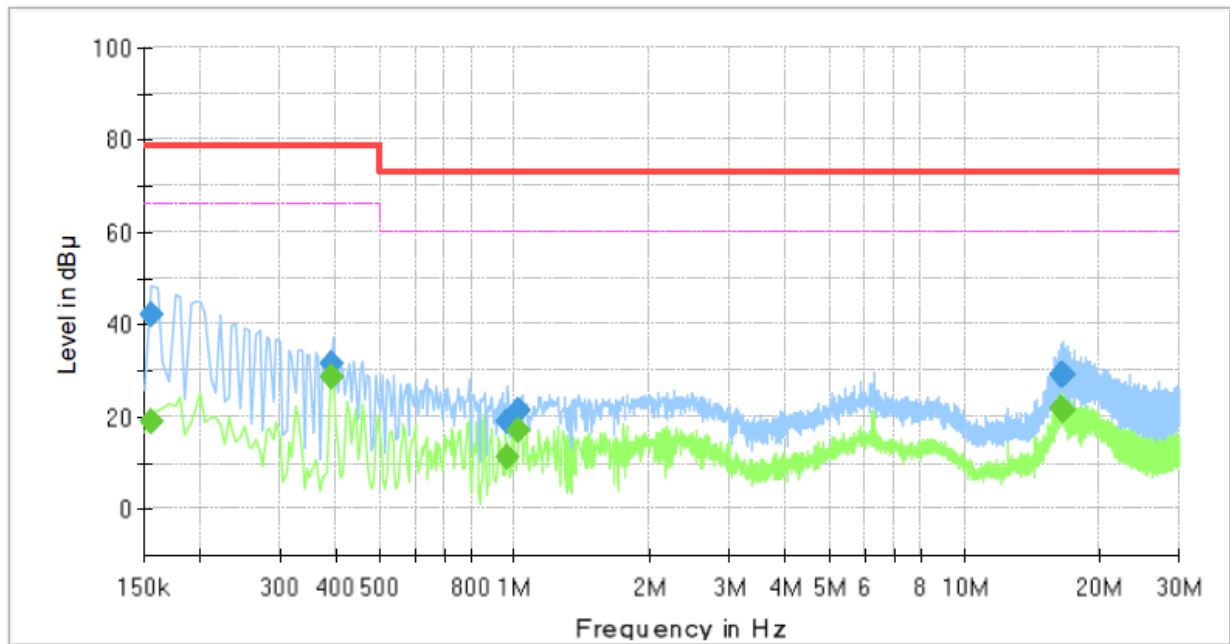
Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.160000	---	20.35	66.00	45.65	1000.0	9.000	L1	19.4
0.160000	41.58	---	79.00	37.42	1000.0	9.000	L1	19.4
0.425000	---	34.00	66.00	32.00	1000.0	9.000	L1	19.4
0.425000	35.80	---	79.00	43.20	1000.0	9.000	L1	19.4
0.890000	---	18.67	60.00	41.33	1000.0	9.000	L1	19.4
0.890000	22.22	---	73.00	50.78	1000.0	9.000	L1	19.4
0.895000	---	13.96	60.00	46.04	1000.0	9.000	L1	19.4
0.895000	21.27	---	73.00	51.73	1000.0	9.000	L1	19.4
16.805000	---	21.97	60.00	38.03	1000.0	9.000	L1	20.2
16.805000	29.32	---	73.00	43.68	1000.0	9.000	L1	20.2
16.950000	---	21.78	60.00	38.22	1000.0	9.000	L1	20.2
16.950000	29.18	---	73.00	43.82	1000.0	9.000	L1	20.2



NEUTRAL LINE

Common Information

Test Description: Conducted Emission
Job No.: KES-EM241384
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	---	18.92	66.00	47.08	1000.0	9.000	N	19.3
0.155000	42.20	---	79.00	36.80	1000.0	9.000	N	19.3
0.390000	---	28.67	66.00	37.33	1000.0	9.000	N	19.4
0.390000	31.54	---	79.00	47.46	1000.0	9.000	N	19.4
0.965000	---	11.37	60.00	48.63	1000.0	9.000	N	19.4
0.965000	18.82	---	73.00	54.18	1000.0	9.000	N	19.4
1.020000	---	16.97	60.00	43.03	1000.0	9.000	N	19.4
1.020000	21.26	---	73.00	51.74	1000.0	9.000	N	19.4
16.445000	---	21.63	60.00	38.37	1000.0	9.000	N	20.2
16.445000	29.10	---	73.00	43.90	1000.0	9.000	N	20.2
16.510000	---	21.58	60.00	38.42	1000.0	9.000	N	20.2
16.510000	29.17	---	73.00	43.83	1000.0	9.000	N	20.2

◆ Calculation

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

QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

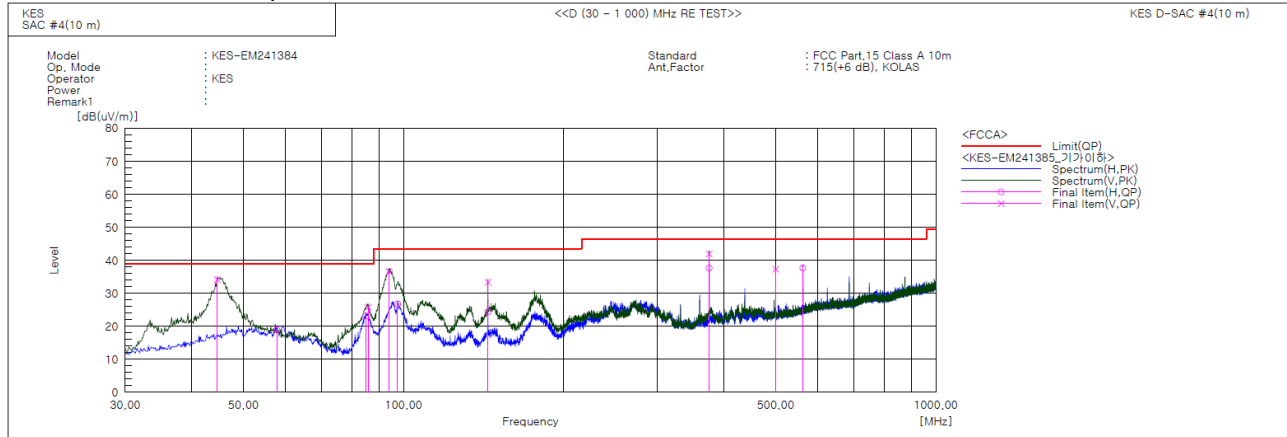
Corr. : Correction values (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))



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Radiated Electric Field Emissions(Below 1 GHz)

- 47 CFR Part 15, Subpart B

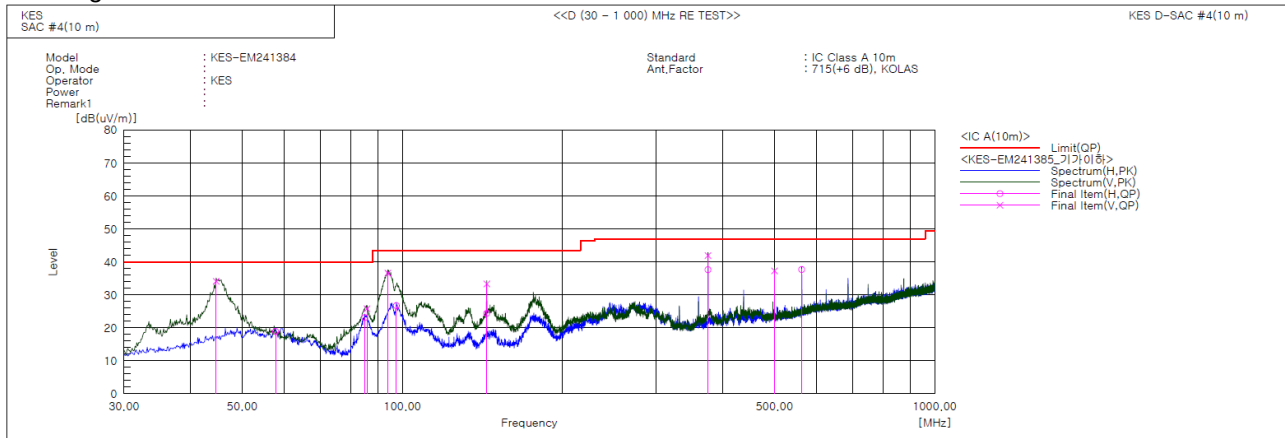
**Final Result**

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	44.671	V	55.7	-21.6	34.1	39.0	4.9	100.0	42.0	
2	57.766	H	40.6	-21.7	18.9	39.0	20.1	400.0	153.0	
3	84.926	H	49.5	-26.4	23.1	39.0	15.9	374.0	3.0	
4	85.775	V	51.8	-26.0	25.8	39.0	13.2	163.0	138.0	
5	93.899	V	59.6	-23.0	36.6	43.5	6.9	100.0	251.0	
6	97.415	H	49.2	-22.5	26.7	43.5	16.8	347.0	240.0	
7	143.975	V	58.5	-25.2	33.3	43.5	10.2	145.0	78.0	
8	143.975	H	49.6	-25.2	24.4	43.5	19.1	392.0	165.0	
9	374.956	V	56.3	-14.4	41.9	46.5	4.6	113.0	206.0	
10	374.956	H	52.0	-14.4	37.6	46.5	8.9	295.0	188.0	
11	499.965	V	48.4	-11.1	37.3	46.5	9.2	112.0	121.0	
12	562.530	H	47.0	-9.3	37.7	46.5	8.8	289.0	311.0	



Report No. : KES-EM241384

- IC Regulation ICES-003 Issue 7



Final Result

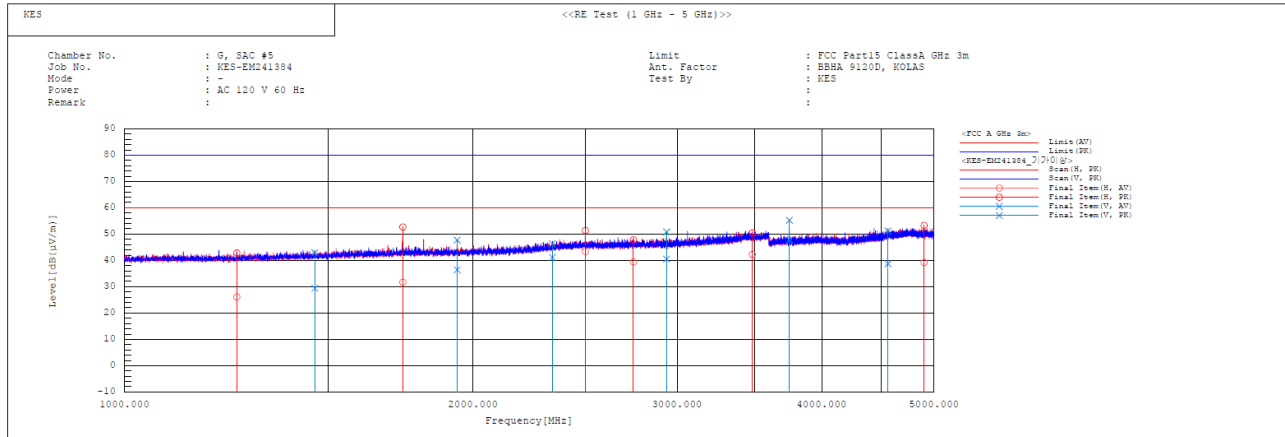
No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	44.671	V	55.7	-21.6	34.1	40.0	5.9	100.0	42.0	
2	57.766	H	40.6	-21.7	18.9	40.0	21.1	400.0	153.0	
3	84.926	H	49.5	-26.4	23.1	40.0	16.9	374.0	3.0	
4	85.775	V	51.8	-26.0	25.8	40.0	14.2	163.0	138.0	
5	93.899	V	59.6	-23.0	36.6	43.5	6.9	100.0	251.0	
6	97.415	H	49.2	-22.5	26.7	43.5	16.8	347.0	240.0	
7	143.975	V	58.5	-25.2	33.3	43.5	10.2	145.0	78.0	
8	143.975	H	49.6	-25.2	24.4	43.5	19.1	392.0	165.0	
9	374.956	V	56.3	-14.4	41.9	47.0	5.1	113.0	206.0	
10	374.956	H	52.0	-14.4	37.6	47.0	9.4	295.0	188.0	
11	499.965	V	48.4	-11.1	37.3	47.0	9.7	112.0	121.0	
12	562.530	H	47.0	-9.3	37.7	47.0	9.3	289.0	311.0	

◆ Calculation

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

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

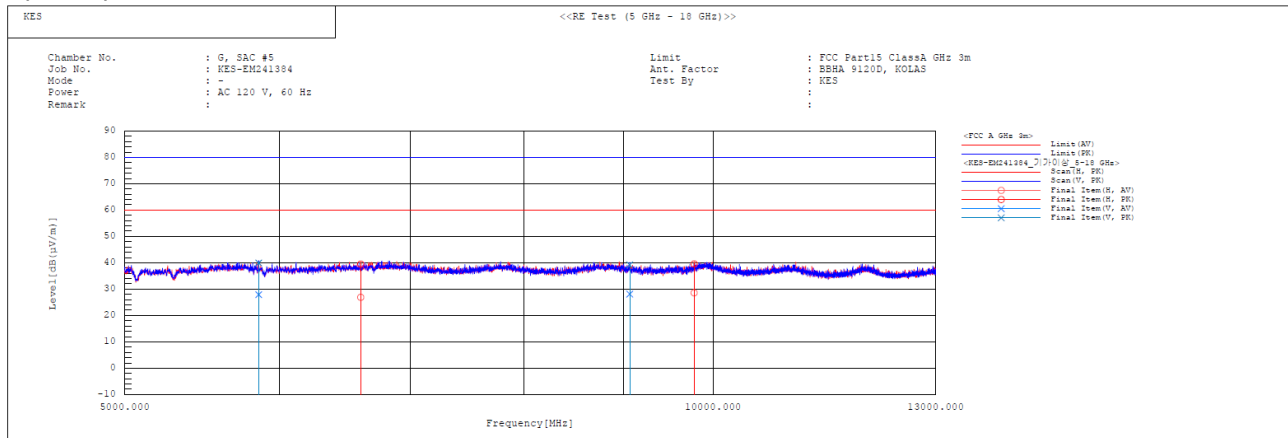
**Radiated Electric Field Emissions(Above 1 GHz)****- (1 ~ 5) GHz**

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	1250.000	H	26.3	43.0	-0.2	26.1	42.8	60.0	80.0	33.9	37.2	224.0	0.7	
2	1460.000	V	28.5	42.0	0.9	29.4	42.9	60.0	80.0	30.6	37.1	105.0	28.5	
3	1738.800	H	29.6	50.6	2.1	31.7	52.7	60.0	80.0	28.3	27.3	214.0	280.3	
4	1937.200	V	33.4	44.7	3.0	36.4	47.7	60.0	80.0	23.6	32.3	100.0	318.8	
5	2341.600	V	36.4	41.6	4.7	41.1	46.3	60.0	80.0	18.9	33.7	119.0	35.9	
6	2500.000	H	38.2	46.2	5.2	43.4	51.4	60.0	80.0	16.6	28.6	312.0	137.7	
7	2750.400	H	33.5	41.9	5.9	39.4	47.8	60.0	80.0	20.6	32.2	251.0	83.0	
8	2937.200	V	34.1	44.4	6.4	40.5	50.8	60.0	80.0	19.5	29.2	122.0	203.7	
9	3483.600	H	35.1	43.3	7.2	42.3	50.5	60.0	80.0	17.7	29.5	107.0	229.5	
10	3750.000	V	39.9	47.4	7.8	47.7	55.2	60.0	80.0	12.3	24.8	221.0	198.3	
11	4562.400	V	27.7	40.2	11.0	38.7	51.2	60.0	80.0	21.3	28.8	102.0	197.1	
12	4902.400	H	26.9	41.0	12.3	39.2	53.3	60.0	80.0	20.8	26.7	357.0	176.1	



Report No. : KES-EM241384

- (5 ~ 18) 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)
5 855.400	39.900	V	1.000	33.420	9.220	33.640	48.900	80.000	31.100
6 601.600	39.500	H	1.000	34.510	9.290	34.700	48.600	80.000	31.400
9 065.100	39.200	V	1.000	37.820	11.450	34.420	54.050	80.000	25.950
9 777.500	39.600	H	1.000	39.540	10.890	33.690	56.340	80.000	23.660

- 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)
5 855.400	27.900	V	1.000	33.420	9.220	33.640	36.900	60.000	23.100
6 601.600	26.900	H	1.000	34.510	9.290	34.700	36.000	60.000	24.000
9 065.100	28.100	V	1.000	37.820	11.450	34.420	42.950	60.000	17.050
9 777.500	28.600	H	1.000	39.540	10.890	33.690	45.340	60.000	14.660

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



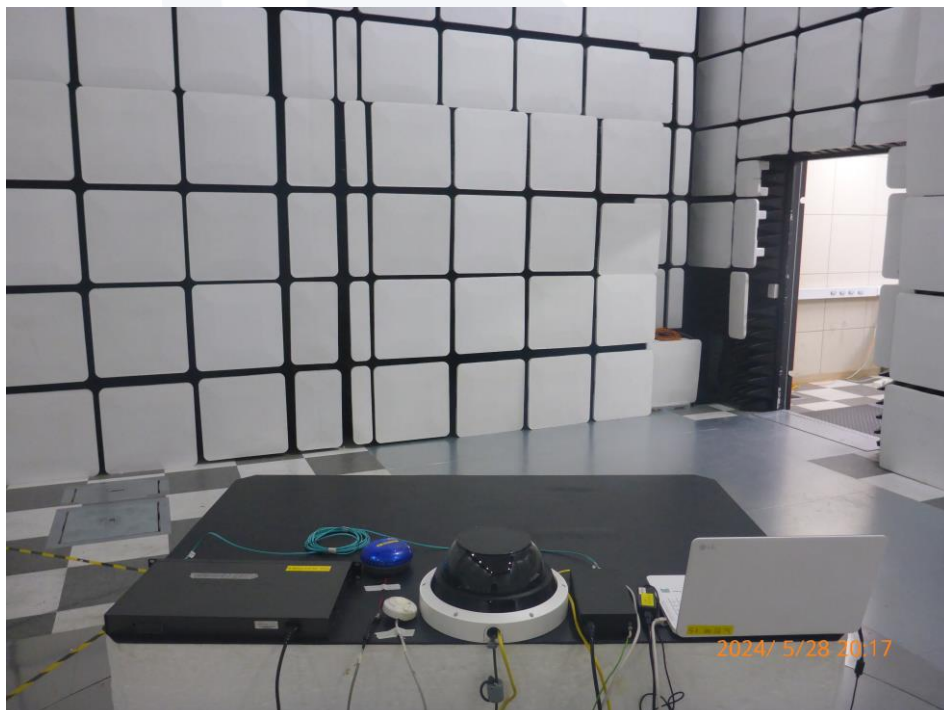
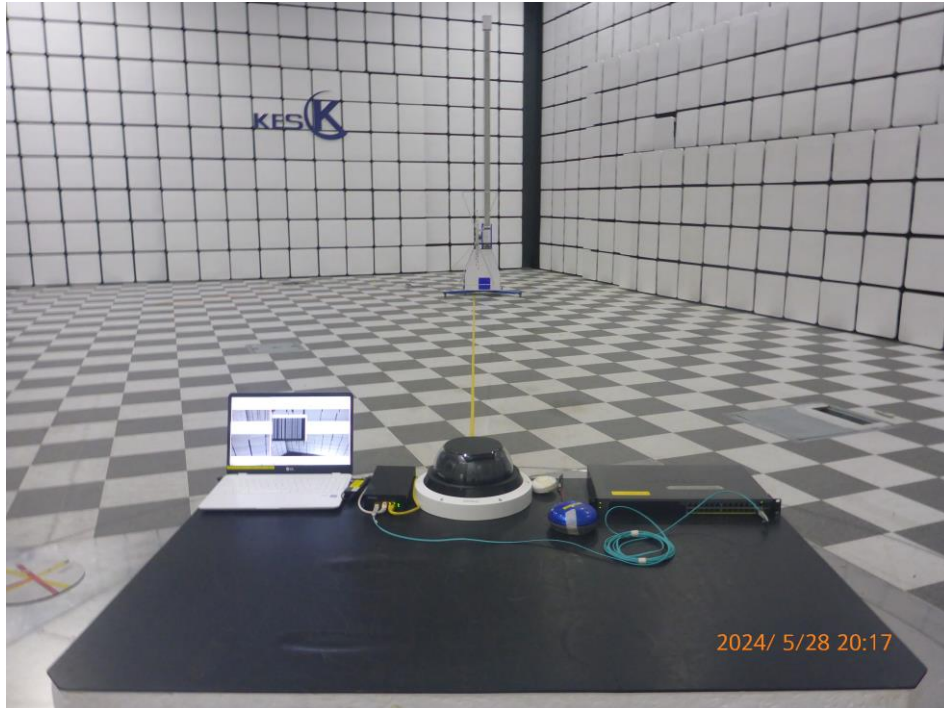
Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports



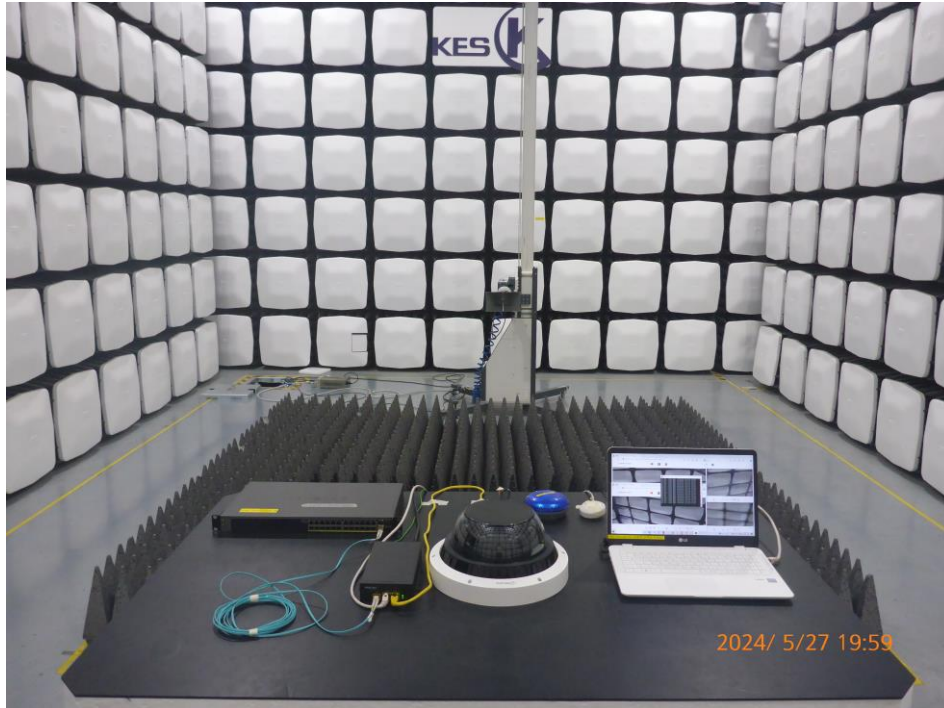


Radiated Electric Field Emissions(Below 1 GHz)





Radiated Electric Field Emissions(Above 1 GHz)





EUT External Photographs

(Top)



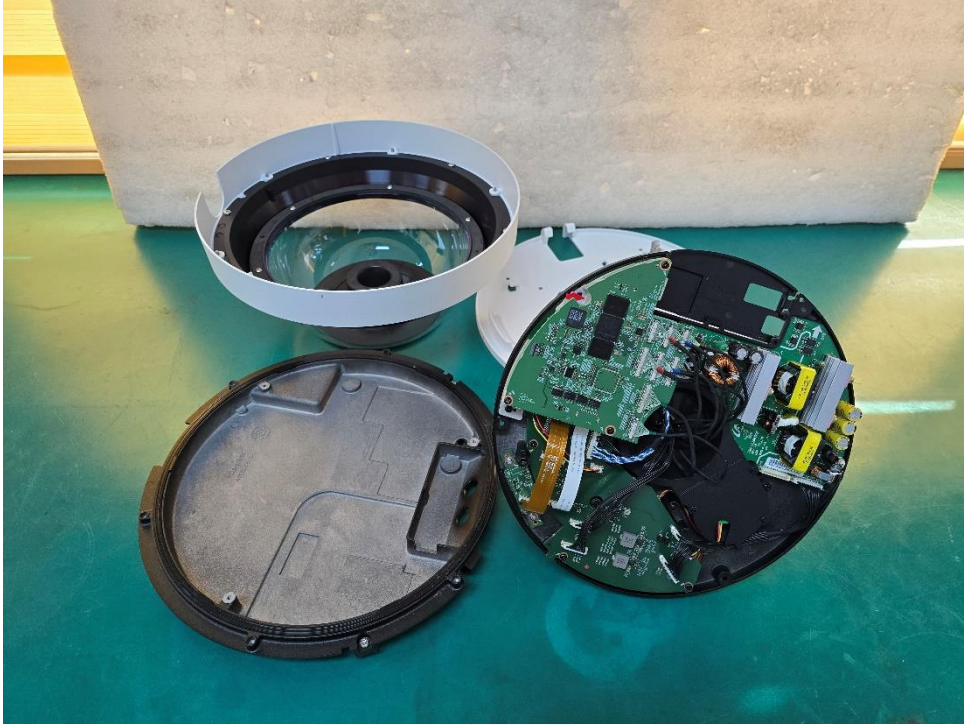
(Bottom)





EUT Internal Photographs

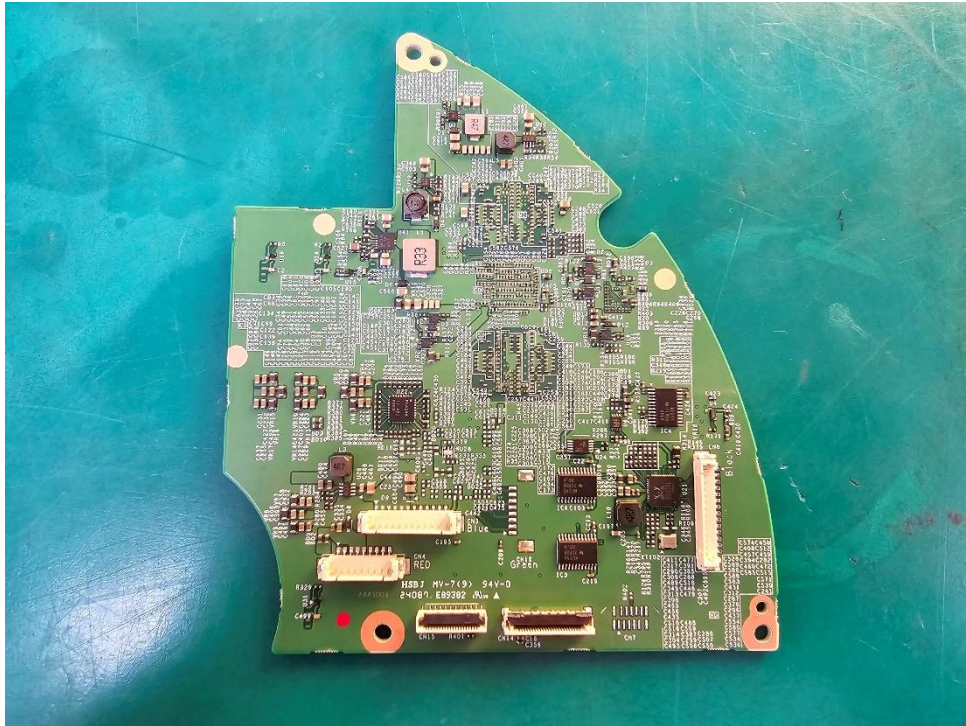
(Internal View)



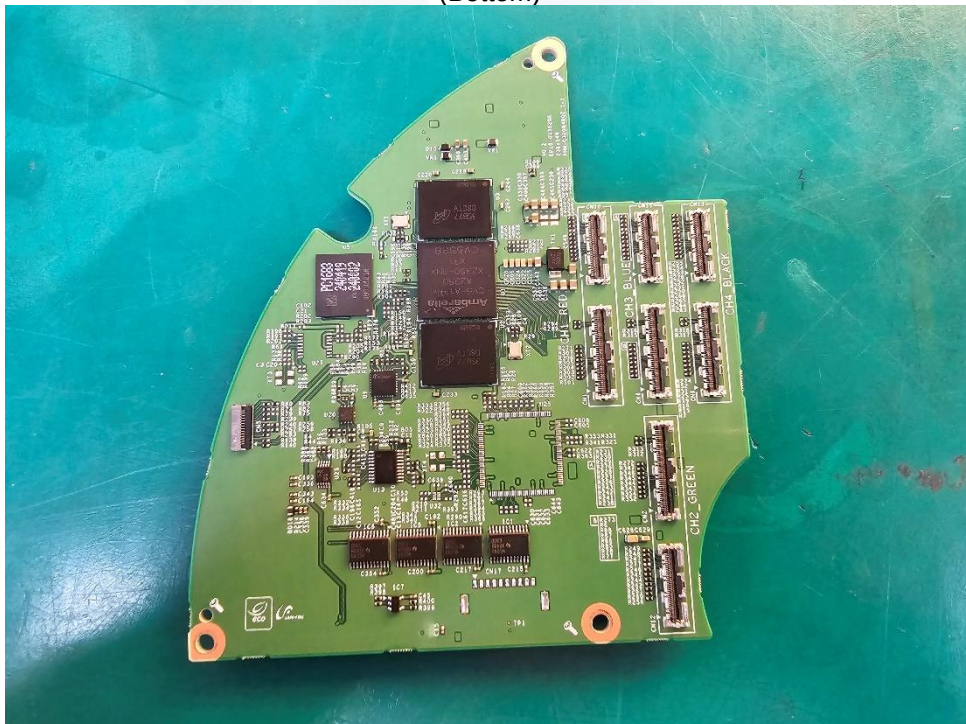


EUT Internal View – Board 1

(Top)



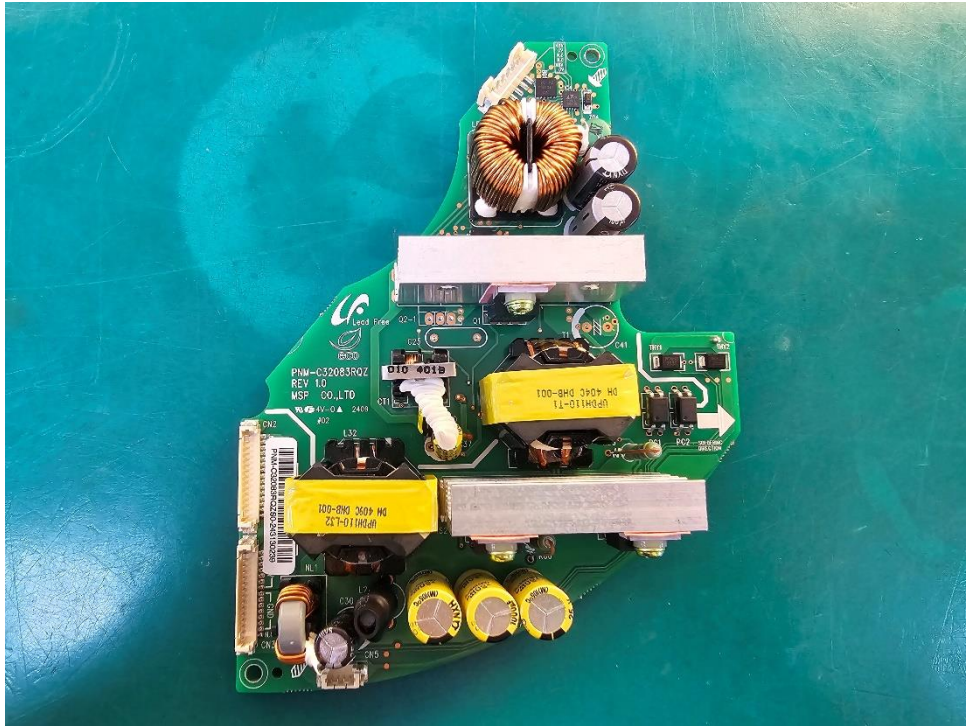
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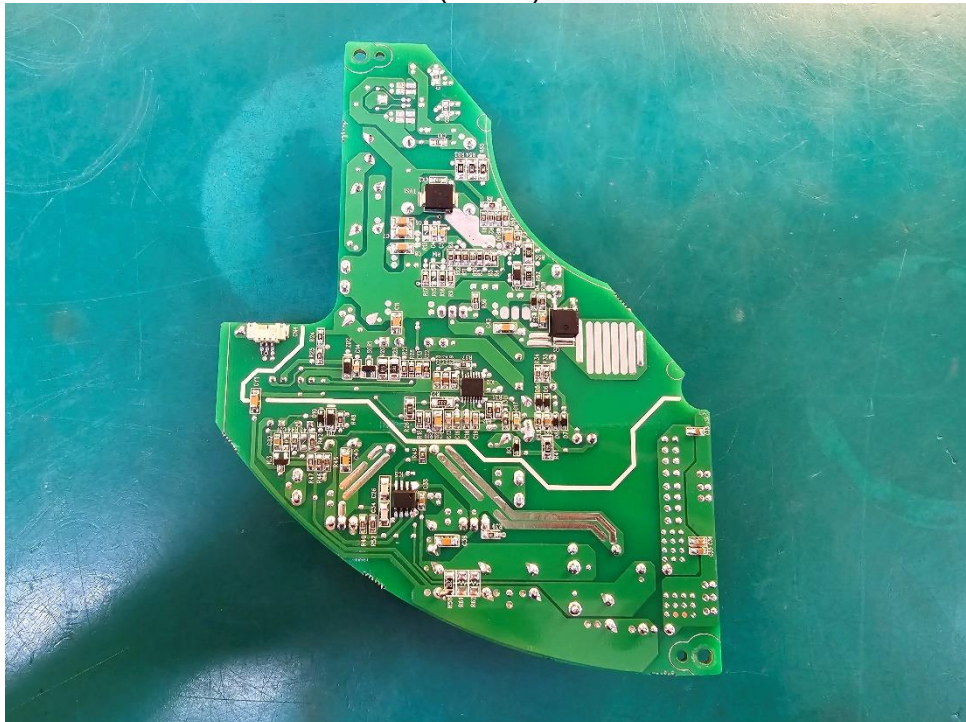


EUT Internal View – Board 2

(Top)



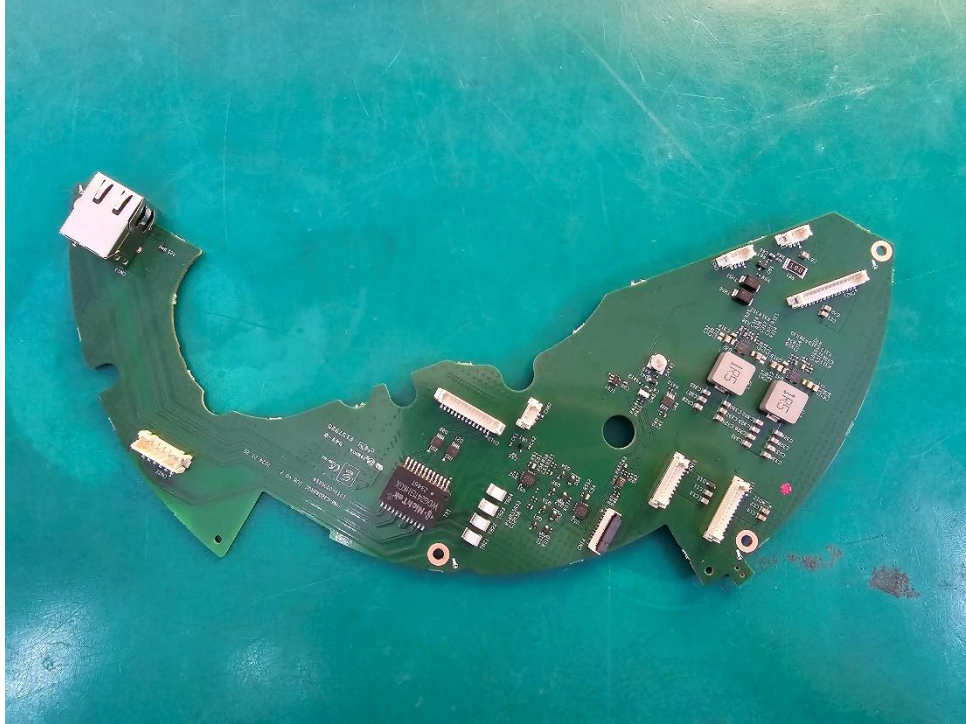
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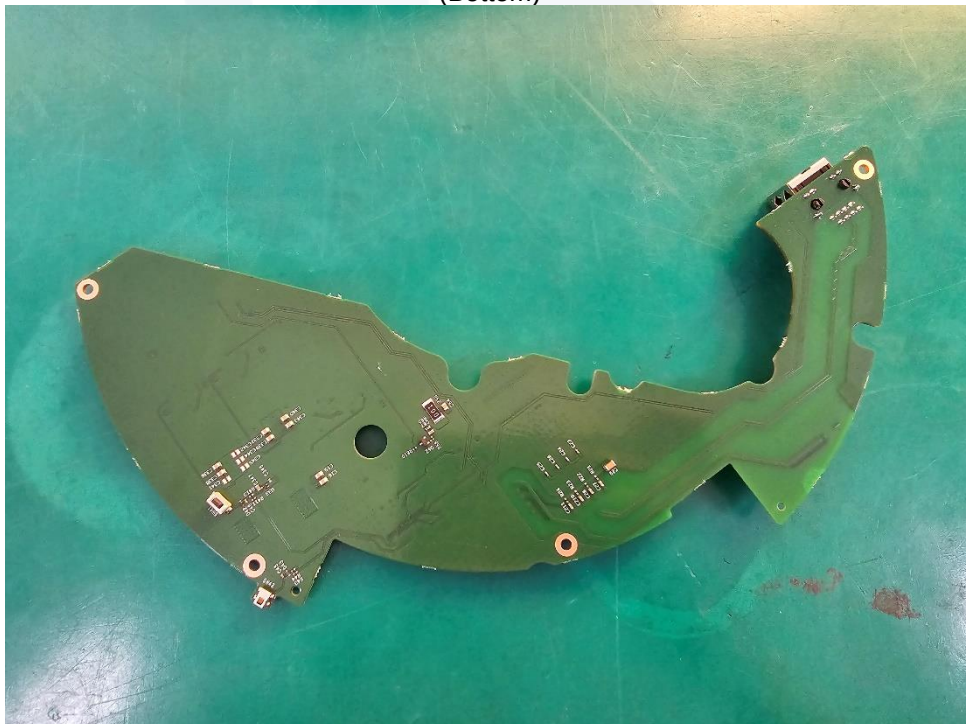


EUT Internal View – Board 3

(Top)



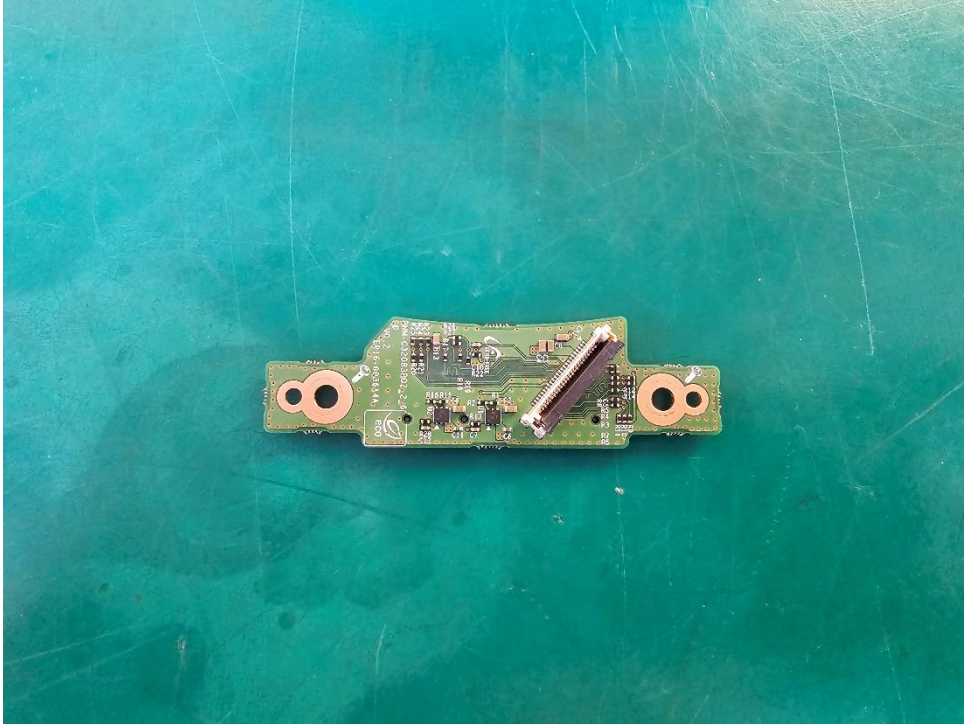
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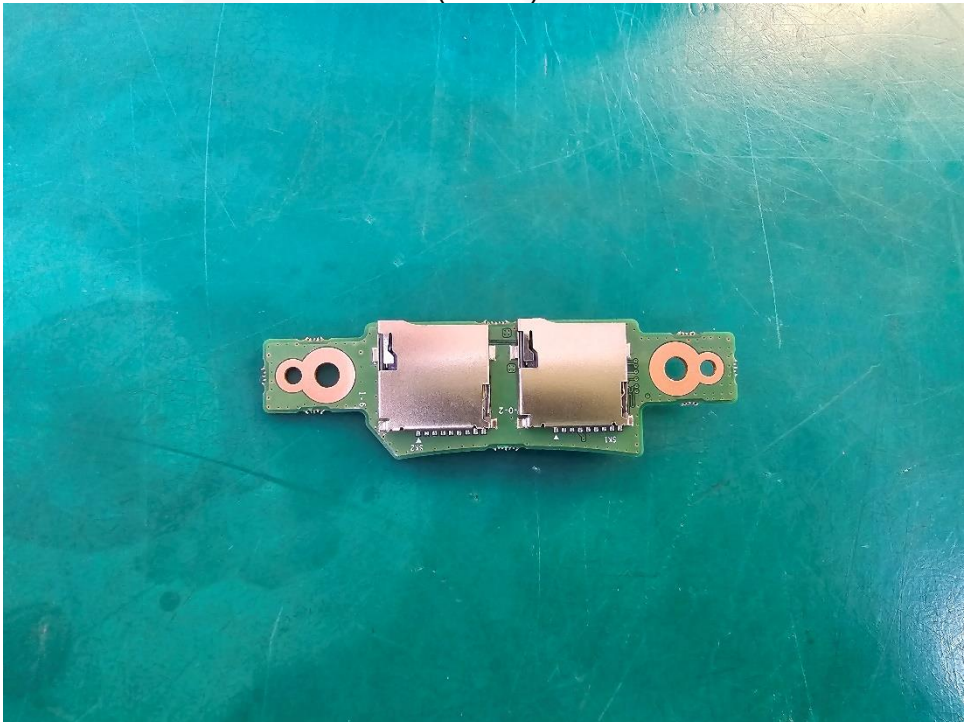


EUT Internal View – Board 4

(Top)



(Bottom)



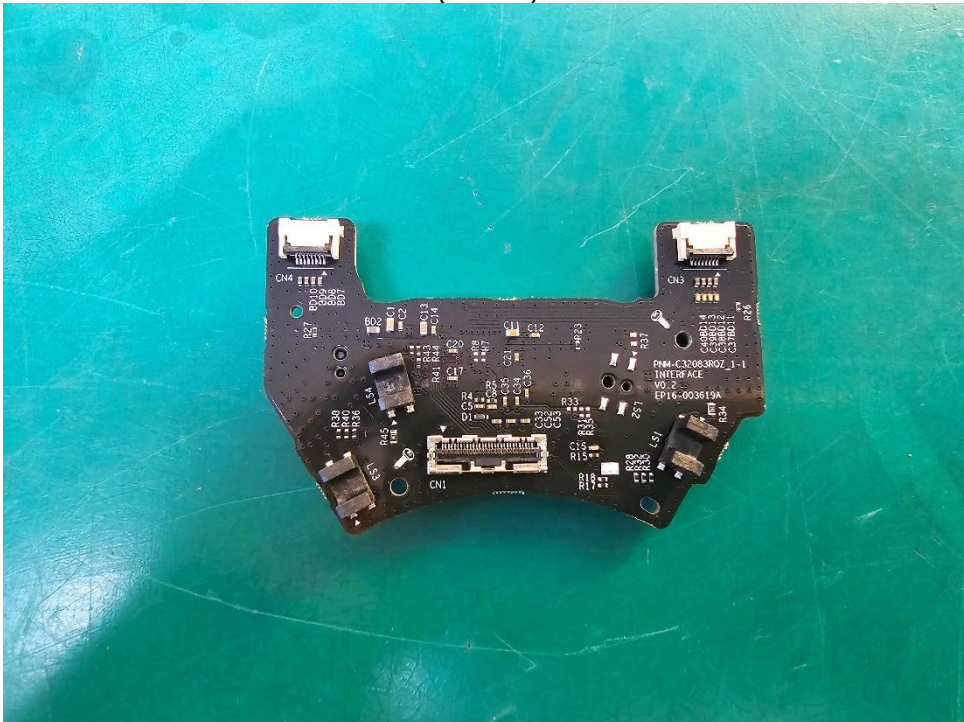


EUT Internal View – Board 5

(Top)



(Bottom)





EUT Internal View – Board 6

(Top)



(Bottom)



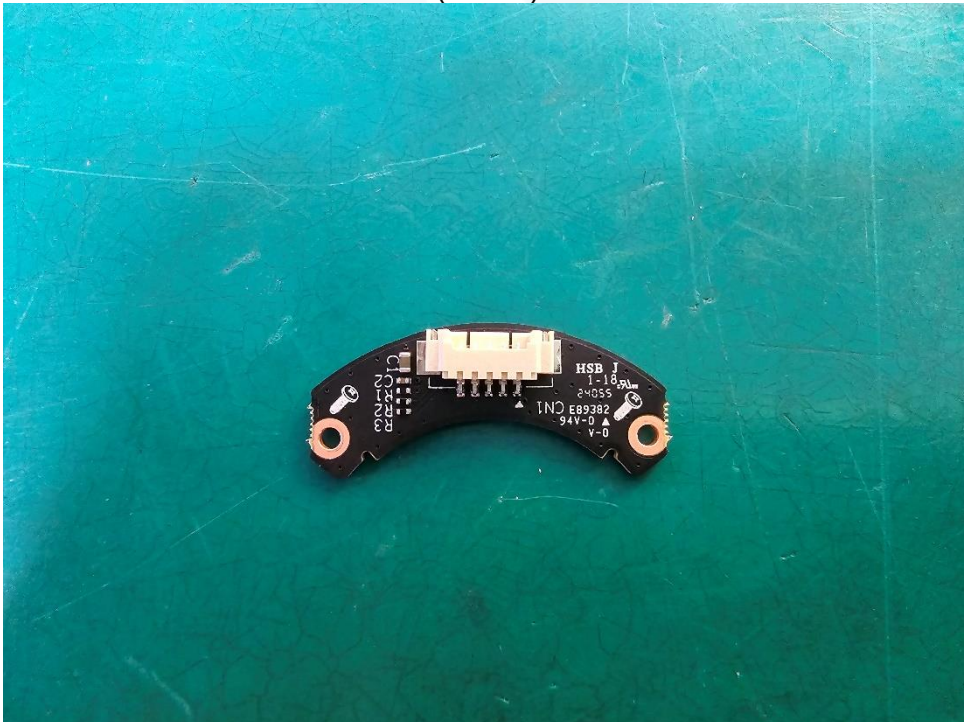


EUT Internal View – Board 7

(Top)



(Bottom)





EUT Internal View – Board 8

(Top)





EUT Internal View – Board 9

(Top)





EUT Internal View – PoE Injector

(Top)



(Bottom)





EUT Internal View – Motor 1

(Top)



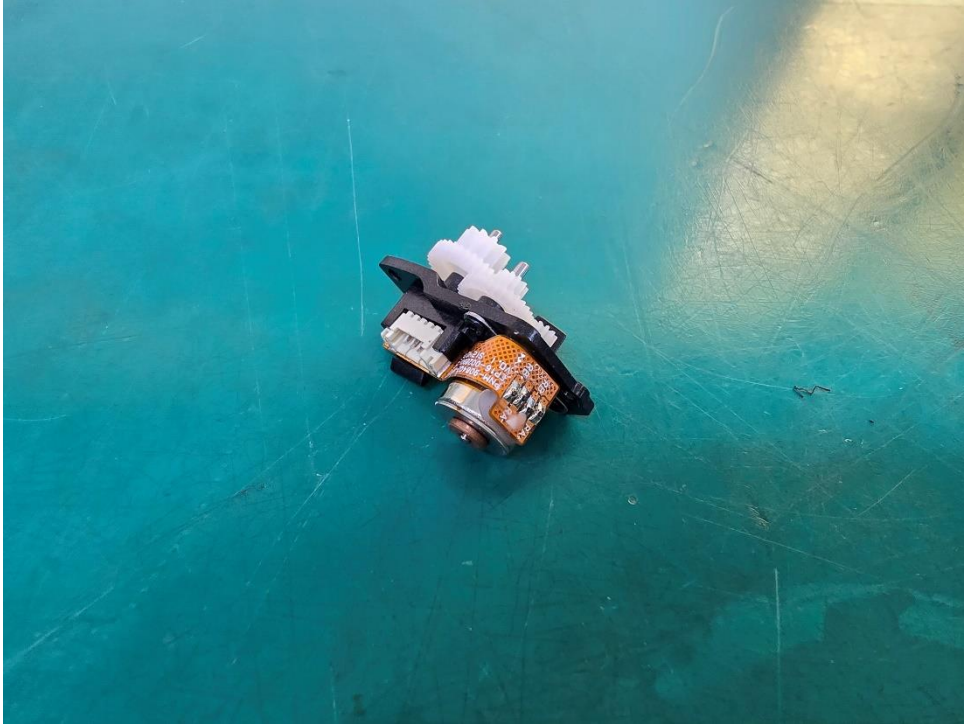
(Bottom)





EUT Internal View – Motor 2

(Top)



(Bottom)





Label Photographs

FCC Label



NETWORK CAMERA

PNM-C16083RQZ

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.