



EMC TEST REPORT

Test Report No. : KES-EM-22T0608-R1
Date of Issue : Feb. 24, 2023
Product name : NETWORK CAMERA
Model/Type No. : XNV-6083R
Variant Model : -
Applicant : Hanwha Vision Co., Ltd
Applicant Address : 6, Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si,
Gyeonggi-do, Republic of Korea
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 commune, Bac Ninh city, Bac Ninh province, Vietnam
2. 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi- do,
Korea (Suwon Industrial Complex)
Equipment authorization : **Supplier's Declaration of Conformity**
Date of Receipt : Jul. 08, 2022
Test date : Jul. 11, 2022
Test Results : ☒ **In Compliance** ☐ **Not in Compliance**

Tested by

Jae Won, Lee
EMC Test Engineer

Reviewed by

Dong-Hun, Jang
EMC Technical Manager

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

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KES Co., Ltd.

3701, 40, Simin-daero 365beon-gil,
Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea
Tel: +82-31-425-6200 / Fax: +82-31-424-0450
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Report No.:

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REPORT REVISION HISTORY

Date	Test Report No.	Revision History
Jul. 22, 2022	KES-EM-22T0608-R1	Issued
Feb. 24, 2023	KES-EM-22T0608	Change the Applicant and manufacturer at the request of the customer

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Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea
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1.0 General Product Description

Main Specifications of EUT are:

Video	
Imaging Device	1/2.8" progressive CMOS
Resolution	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264: Max. 120fps/100fps(60Hz/50Hz)(WDR off) Max. 60fps/50fps(60Hz/50Hz)(WDR on) MJPEG: Max. 30fps/25fps(60Hz/50Hz)
NETD	None
Pixel Size	None
Min. Illumination	(TBD) Color: 0.011Lux(F1.4, 1/30sec, 30IRE) B/W : 0.0011Lux(F1.4, 1/30sec, 30IRE), 0Lux(IR LED on), 30/25fps Color: 0.022Lux(F1.4, 1/60sec, 30IRE) B/W : 0.0022Lux(F1.4, 1/60sec, 30IRE), 0Lux(IR LED on), 60/50fps Color: 0.022Lux(F1.4, 1/60sec, 30IRE) B/W : 0.0022Lux(F1.4, 1/60sec, 30IRE), 0Lux(IR LED on), 120/100fps
Video Out	CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P) for installation USB: Micro USB Type B, 1280x720 for installation
Video Transmission Distance	None
Lens	
Focal Length (Zoom Ratio)	2.8~12mm(4.3x) motorized varifocal
Max. Aperture Ratio	F1.4
Angular Field of View	H : 119.5°(Wide) ~ 27.9°(Tele) V : 62.8°(Wide) ~ 15.7°(Tele) D : 142.1°(Wide) ~ 32.0°(Tele)
Min. Object Distance	0.5m(1.64ft)
Focus Control	Simple focus, Manual
Lens Type	DC auto iris with hall sensor (IR corrected)
Mount Type	None
Optional Lens	None

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Pan / Tilt / Rotate	
Pan / Tilt / Rotate Range	0°~360° / -45°~85° / 0°~355°(TBD)
Pan Range	None
Pan Speed	None
Tilt Range	None
Tilt Speed	None
Rotate Range	None
Sequence	None
Preset Accuracy	None
Operational	
Camera Title	Displayed up to 85 characters
Direction Indicator	None
Day & Night	Auto(ICR)
Backlight Compensation	BLC, HLC, WDR, SSDR
Wide Dynamic Range	extremeWDR (150dB)
Digital Noise Reduction	WiseNRⅡ(Based on AI engine) , SSNR V
Digital Image Stabilization	Support(built-in gyro sensor)
Defog	Support
Motion Detection	8ea, 8point Polygonal zones
Privacy Masking	32ea, Quadrangle zones - Color : Gray, Green, Red, Blue, Black, White - Mosaic
Gain Control	Support
White Balance	ATW / Narrow ATW / AWC / Manual / Indoor / Outdoor
LDC	Support (Fill/stretch mode)
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2~1/12,000sec) Auto prefer shutter control(Based on AI engine)
Digital PTZ	Support
Video Rotation	Flip, Mirror, Hallway view(90°/270°)
Analytics	- Analytics events based on AI engine(NPU) : Object detection (Person/Face/Vehicle(car/truck/bus/bicycle/motorcycle)/Licence plate), IVA (Virtual line/Area, Enter/Exit, Loitering, direction, intrusion) - Analytics events : Defocus detection, Motion detection, Tampering, Fog

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	detection, Audio detection, Sound classification, Shock detection, Appear/Disappear
Business Intelligence	Based on AI engine(NPU) : People counting, Queue management, Heatmap
Serial Interface	None
Alarm I/O	2 configurable I/O ports, DC 12V output(Max. 50mA)
Alarm Triggers	Analytics, Network disconnect, Alarm input, App event, Time schedule
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) - Audio clip playback - PTZ preset
Audio In	Selectable(mic in/line in) Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm
Audio Out	Line out, Max.output level: 1Vrms
IR Viewable Length	WiseIR 50m(164.04ft)(TBD)
IR Illuminator (Optional)	None
Water Removal	None
Auto Tracking	None
Coaxial Protocol	None
Color Palettes	None
Radiometry	
Temperature Detect Range	None
Temperature Accuracy	None
Temperature Detection	None
Additional	None
Network	
Ethernet	Metal shielded RJ-45(10/100/1000BASE-T)
Video Compression	H.265/H.264: Main/High, MJPEG
Audio Compression	G.711 u-law /G.726 Selectable G.726(ADPCM) 8KHz, G.711 8KHz

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	G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz
Smart Codec	Manual(5ea area), WiseStreamⅡ, WiseStreamⅢ(Based on AI engine)
Video Quality Adjustment	H.264/H.265: Target bitrate level control MJPEG: Target bitrate level control
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast(20 users) / Multicast Multiple streaming(Up to 10 profiles, 3 virtual channel support)
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, SRTP (TCP, UDP Unicast)
Security	TPM 2.0 (FIPS 140-2 level 2) HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2) Device Certificate(Hanwha Techwin Root CA, pre-installed) Secure by default certificate(TBD) Secure OS/Boot/Storage, Verify firmware forgery
Application Programming Interface	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform
General	
Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish,, Portuguese, Czech, Polish, Turkish, Dutch, Greek, Hungarian
Web Viewer	None
Edge Storage	Micro SD/SDHC/SDXC 2slot Max. 1TB (512GB * 2)
Memory	2GB RAM, 512MB Flash
Environmental & Electrical	

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Operating Temperature / Humidity	-50°C~+55°C(-58°F ~ +131°F) * Maximum temperature : +60°C (intermittent) NEMA TS-2 : 74°C * Start up should be done at above -30°C less than 95%RH(non-condensing) Humidity control /w GORE vent
Storage Temperature / Humidity	-50°C ~ +60°C(-58°F ~ +140°F) / Less than 90% RH
Certification	IP66/IP67/IP6K9K, NEMA4X, IK10+
Input Voltage	PoE+(IEEE802.3at, Class4), 12VDC
Power Consumption	TBD Power redundancy failover
Mechanical	
Color / Material	White / Aluminum Hard-coated dome bubble
RAL Code	RAL9003
Product Dimensions / Weight	Ø180x125mm(7.09x4.92"), 1.9kg(4.19 lb) (TBD)
Compatible Conduit hole / Gangbox	3/4" (M25) single, double, 4" octagon, 4" square
Hanging Mount (Dome)	SBP-187HMW
Skin Cover (Dome)	None
Weather Cap (Dome)	include
Power Module	None
Backbox	None
DORI (EN62676-4 standard)	
Detect (25PPM/ 8PPF)	Wide: 22.4m(73.47ft) / Tele: 154.6m(507.18ft)
Observe (63PPM/ 19PPF)	Wide: 9.0m(29.39ft) / Tele: 61.8m(202.87ft)
Recognize (125PPM/ 38PPF)	Wide: 4.5m(14.69ft) / Tele: 30.9m(101.44ft)
Identify (250PPM/ 76PPF)	Wide: 2.2m(7.35ft) / Tele: 15.5m(50.72ft)



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 (DC Adapter Input Power)
- ☒ 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	XNV-6083R	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
Adaptor	2ACB022F	-	Channel Well Technology (Guangzhou) Co., Ltd.	-
PoE Adaptor	PT-PSE109GBRO-AH	-	Dongguan PROCET Network Technology Co.,Ltd	-
Notebook	LG15N54	503NZWY038929	LG Electronics	-
Notebook Adaptor	PA-1900-14	OF2R263348701 7764	LITE-ON TECHNOLOGY COPORATION	-
Button Alarm	-	-	-	-
Alarm	-	-	-	-
Smartphone	-	-	APPLE INCORPORATED	-
Headset	K550	-	Britz®	-
Micro SD Card1	-	-	Sandisk	8 GB
Micro SD Card2	-	-	Sandisk	8 GB

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1.6 External I/O Cabling

■ DC Mode

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
NETWORK CAMERA (EUT)	RJ-45 (LAN)	Notebook	RJ-45 (LAN)	3.0	S
	Slot	Micro SD Card1	Slot	-	-
	Slot	Micro SD Card2	Slot	-	-
	Alarm OUT	Alarm	Alarm IN	3.0	U
	Alarm IN	Button Alarm	Alarm OUT	3.0	U
	Audio IN	Headset	Audio OUT	1.7	U
	Audio OUT		Audio IN	1.7	U
	2 Pin	Adaptor	2 Pin	1.6	U
Notebook	3.5 mm	Smartphone	3.5 mm	0.8	U
	JACK	Notebook Adaptor	JACK	1.7	U

* Unshielded=U, Shielded=S

■ PoE Mode

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
NETWORK CAMERA (EUT)	RJ-45 (PoE)	PoE Adaptor	RJ-45 (PoE)	3.0	S
	Slot	Micro SD Card1	Slot	-	-
	Slot	Micro SD Card2	Slot	-	-
	Alarm OUT	Alarm	Alarm IN	3.0	U
	Alarm IN	Button Alarm	Alarm OUT	3.0	U
	Audio IN	Headset	Audio OUT	1.7	U
	Audio OUT		Audio IN	1.7	U
Notebook	RJ-45 (LAN)	PoE Adaptor	RJ-45 (LAN)	3.5	S
	3.5 mm	Smartphone	3.5 mm	0.8	U
	JACK	Notebook Adaptor	JACK	1.7	U

* Unshielded=U, Shielded=S



1.7 EUT Operating Mode(s)

■ DC Mode, PoE Mode

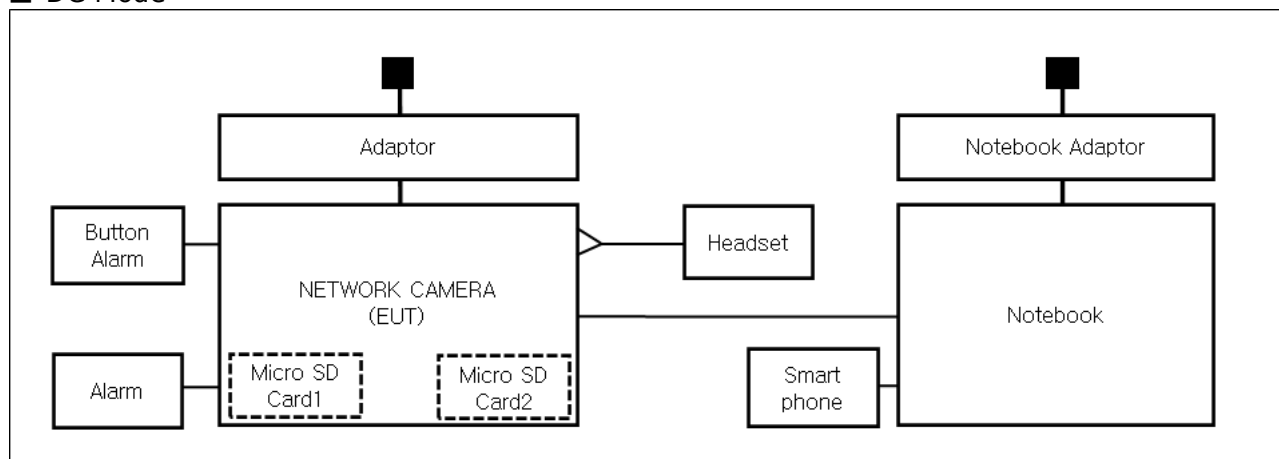
Test Mode	operating
DC	1. Check the camera video output on the laptop 2. Check if the network status is operating normally during PING TEST 3. Check the output of the 1 kHz tone output from the smartphone and the microphone input from the headset 4. Press the alarm button to check the normal operation of the button alarm. 5. Checked the files stored in the Micro SD Card after testing.
PoE	

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

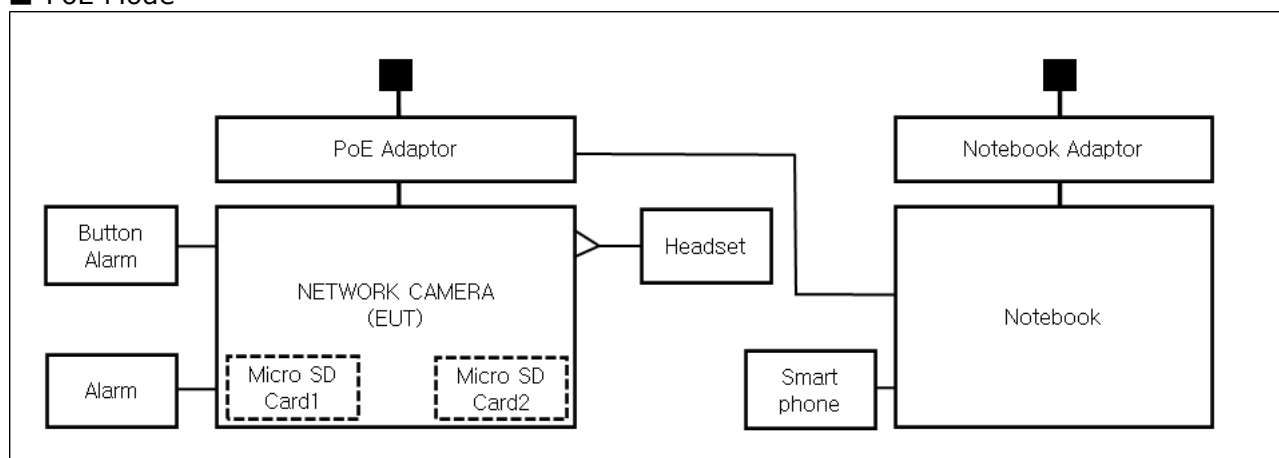
1.8 Configuration

■ AC Main
 □ DC Main

■ DC Mode



■ PoE Mode



1.9 Remarks when standards applied

USB ports, VIDEO ports are not used and have not been tested.

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 0004



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

Jul. 11, 2022

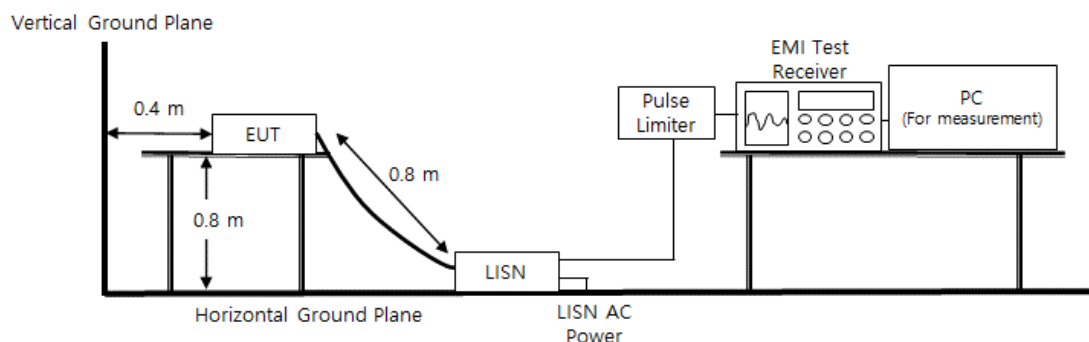
Test Location

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	12, 28, 2022
☒	LISN	ENV216	R & S	101787	12, 27, 2022
☒	LISN	ESH2-Z5	R & S	100450	12, 27, 2022
☒	PULSE LIMITER	ESH3-Z2	R & S	101915	12, 27, 2022

Diagram of test setup





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Test Conditions

Temperature: (24,7 ± 0,1) °C

Relative Humidity: (44,8 ± 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.

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2.2 Radiated Electric Field Emissions(Below 1 GHz)

Test Date

Jul. 11, 2022

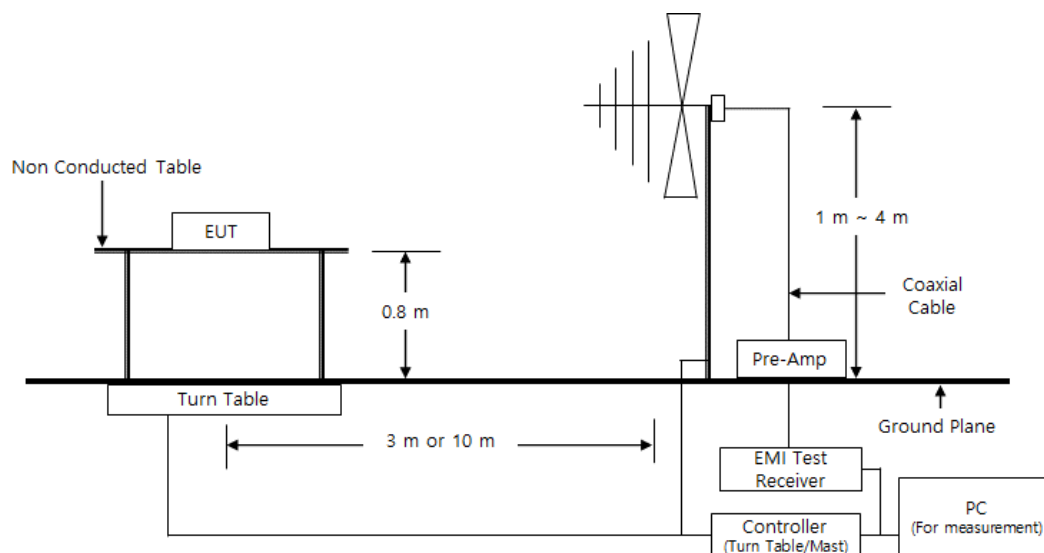
Test Location

☐ 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	03, 31, 2023
☒	AMPLIFIER	SCU 01	R & S	100603	11, 24, 2022
☒	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	12, 08, 2022
☒	ATTENUATOR	8491A	HP	32173	03, 08, 2023

Diagram of test setup





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Test Conditions

Temperature: (24,5 ± 0,1) °C

Relative Humidity: (44,3 ± 0,1) % 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

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2.3 Radiated Electric Field Emissions(Above 1 GHz)

Test Date

Jul. 11, 2022

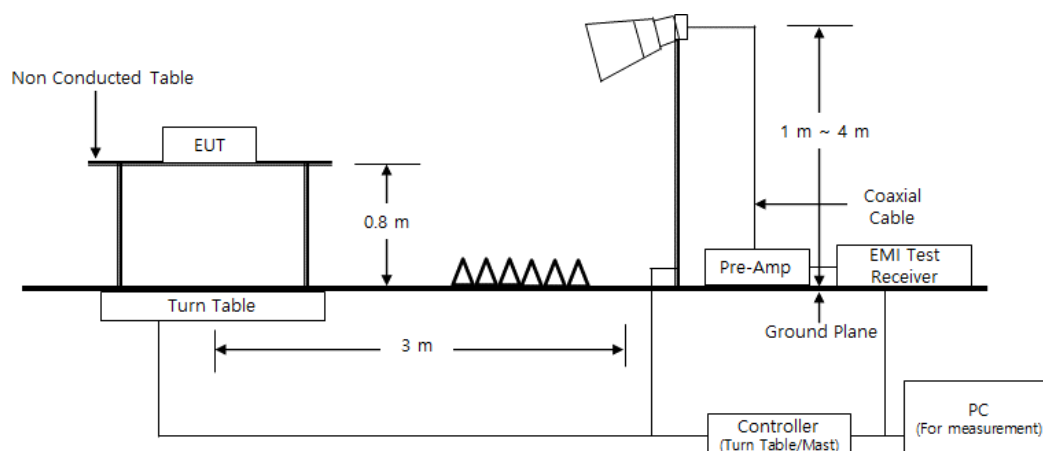
Test Location

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	03, 31, 2023
☒	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	12, 16, 2022
☒	PREAMPLIFIER	8449B	HP	3008A00538	06, 02, 2023

Diagram of test setup





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Test Conditions

Temperature: (24,1 ± 0,1) °C

Relative Humidity: (45,9 ± 0,1) % R.H.

Frequency Range of Measurement

1 GHz to 5 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.

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APPENDIX A – TEST DATA

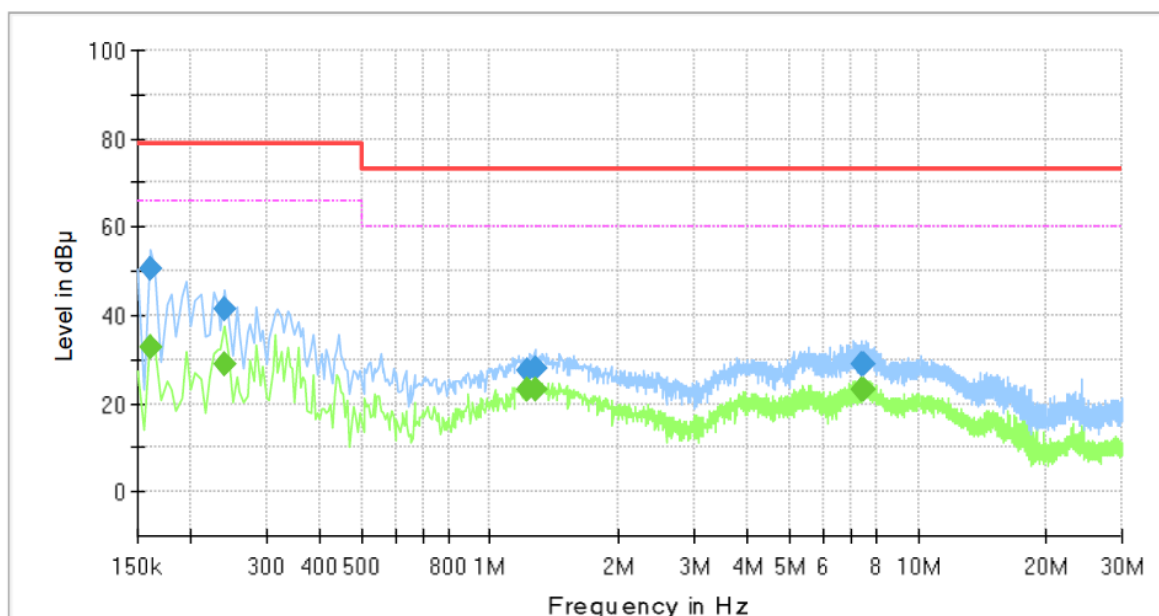
Conducted Emissions at Mains Power Ports

■ DC Mode

HOT LINE

Common Information

Test Description: Conducted Emission
Model No.: XNV-6083R
Phase: DC_L1
Mode:
Operator Name: KES



Final_Result

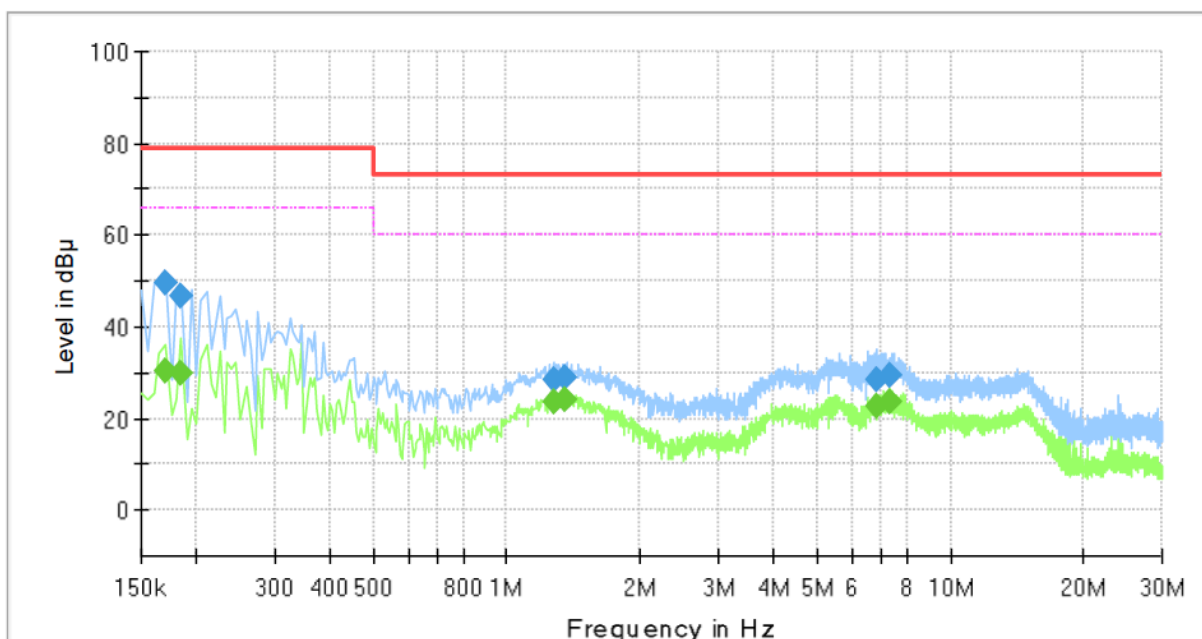
Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.160000	---	32.78	66.00	33.22	1000.0	9.000	L1	19.4
0.160000	50.61	---	79.00	28.39	1000.0	9.000	L1	19.4
0.240000	---	28.87	66.00	37.13	1000.0	9.000	L1	19.5
0.240000	41.46	---	79.00	37.54	1000.0	9.000	L1	19.5
1.215000	---	22.93	60.00	37.07	1000.0	9.000	L1	20.1
1.215000	27.70	---	73.00	45.30	1000.0	9.000	L1	20.1
1.275000	---	23.25	60.00	36.75	1000.0	9.000	L1	20.1
1.275000	28.06	---	73.00	44.94	1000.0	9.000	L1	20.1
7.385000	---	23.21	60.00	36.79	1000.0	9.000	L1	19.5
7.385000	28.75	---	73.00	44.25	1000.0	9.000	L1	19.5
7.485000	---	23.36	60.00	36.64	1000.0	9.000	L1	19.5
7.485000	28.89	---	73.00	44.11	1000.0	9.000	L1	19.5

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NEUTRAL LINE

Common Information

Test Description:	Conducted Emission
Model No.:	XNV-6083R
Phase:	DC_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)
0.170000	---	30.50	66.00	35.50	1000.0	9.000	N	19.4
0.170000	49.37	---	79.00	29.63	1000.0	9.000	N	19.4
0.185000	---	29.69	66.00	36.31	1000.0	9.000	N	19.4
0.185000	46.83	---	79.00	32.17	1000.0	9.000	N	19.4
1.275000	---	23.64	60.00	36.36	1000.0	9.000	N	20.1
1.275000	28.50	---	73.00	44.50	1000.0	9.000	N	20.1
1.355000	---	24.20	60.00	35.80	1000.0	9.000	N	20.2
1.355000	28.83	---	73.00	44.17	1000.0	9.000	N	20.2
6.785000	---	22.59	60.00	37.41	1000.0	9.000	N	19.5
6.785000	28.58	---	73.00	44.42	1000.0	9.000	N	19.5
7.340000	---	23.77	60.00	36.23	1000.0	9.000	N	19.5
7.340000	29.39	---	73.00	43.61	1000.0	9.000	N	19.5



KES Co., Ltd.

3701, 40, Simin-daero 365beon-gil,
Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea
Tel: +82-31-425-6200 / Fax: +82-31-424-0450
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Report No.:

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■ PoE Mode

HOT LINE

Common Information

Test Description:

Model No.:

Phase:

Mode:

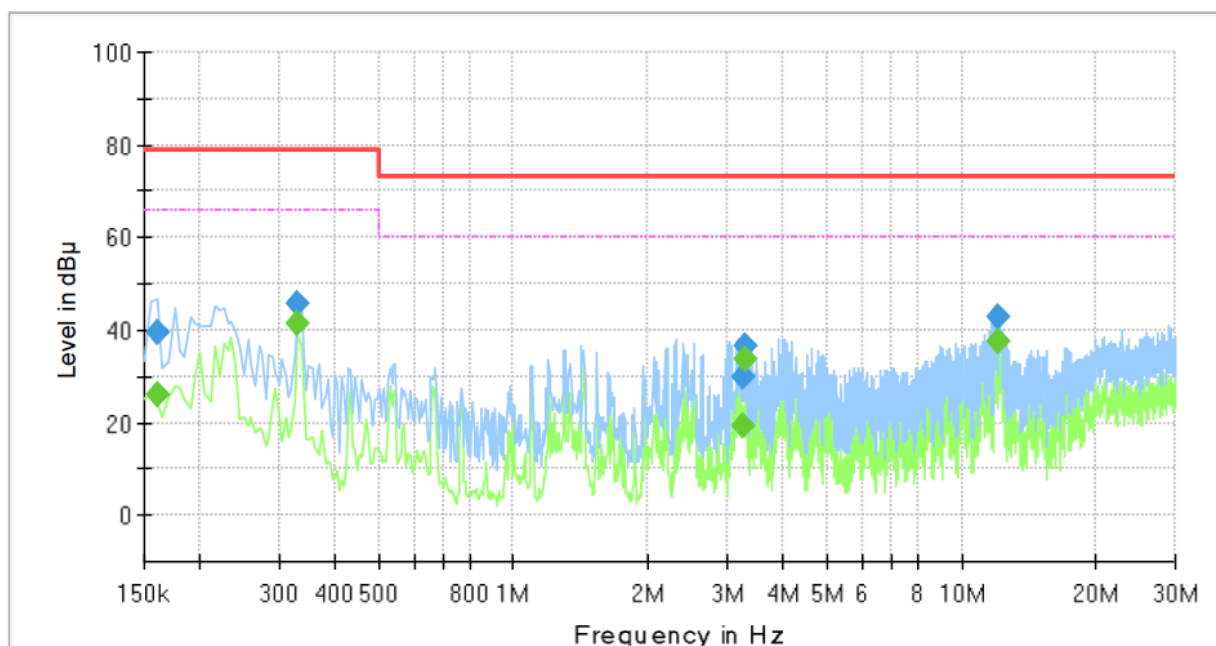
Operator Name:

Conducted Emission

XNV-6083R

PoE_L1

KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.160000	---	26.07	66.00	39.93	1000.0	9.000	L1	19.4
0.160000	39.69	---	79.00	39.31	1000.0	9.000	L1	19.4
0.330000	---	41.20	66.00	24.80	1000.0	9.000	L1	19.5
0.330000	45.52	---	79.00	33.48	1000.0	9.000	L1	19.5
3.255000	---	19.53	60.00	40.47	1000.0	9.000	L1	20.1
3.255000	30.01	---	73.00	42.99	1000.0	9.000	L1	20.1
3.300000	---	33.61	60.00	26.39	1000.0	9.000	L1	20.1
3.300000	36.38	---	73.00	36.62	1000.0	9.000	L1	20.1
12.065000	---	37.48	60.00	22.52	1000.0	9.000	L1	20.0
12.065000	42.83	---	73.00	30.17	1000.0	9.000	L1	20.0

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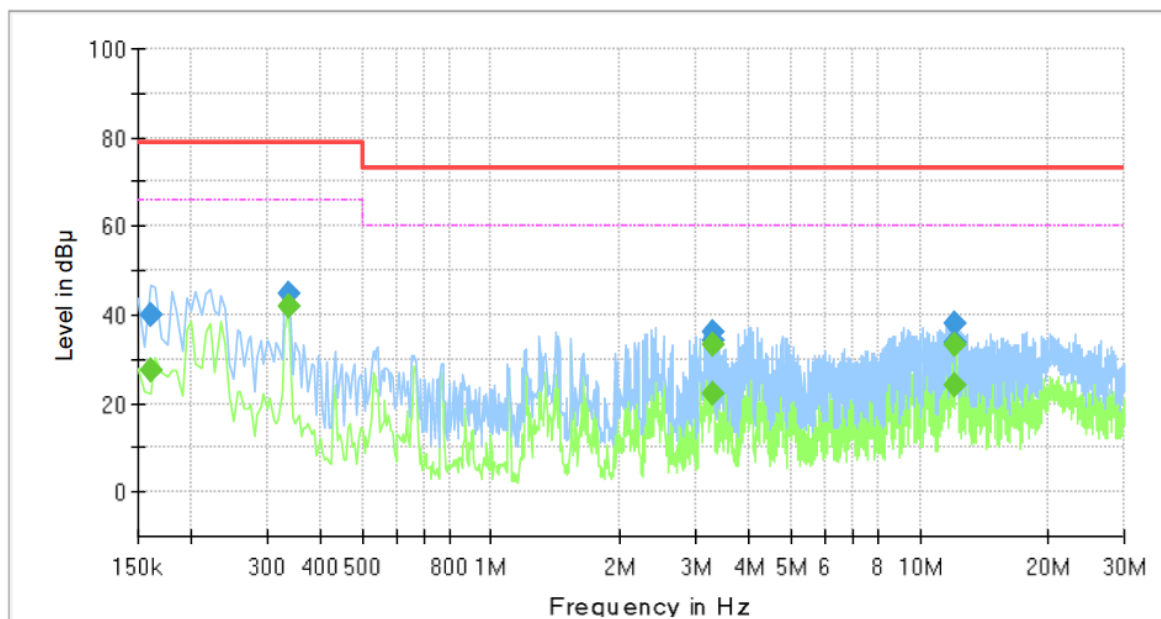
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NEUTRAL LINE

Common Information

Test Description:	Conducted Emission
Model No.:	XNV-6083R
Phase:	PoE_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	---	27.62	66.00	38.38	1000.0	9.000	N	19.4
0.160000	40.10	---	79.00	38.90	1000.0	9.000	N	19.4
0.335000	---	41.65	66.00	24.35	1000.0	9.000	N	19.5
0.335000	44.79	---	79.00	34.21	1000.0	9.000	N	19.5
3.290000	---	22.13	60.00	37.87	1000.0	9.000	N	20.1
3.290000	34.29	---	73.00	38.71	1000.0	9.000	N	20.1
3.305000	---	33.27	60.00	26.73	1000.0	9.000	N	20.1
3.305000	36.21	---	73.00	36.79	1000.0	9.000	N	20.1
12.050000	---	24.05	60.00	35.95	1000.0	9.000	N	20.0
12.050000	33.51	---	73.00	39.49	1000.0	9.000	N	20.0
12.080000	---	33.38	60.00	26.62	1000.0	9.000	N	20.0
12.080000	38.03	---	73.00	34.97	1000.0	9.000	N	20.0

◆ Calculation

$$\text{QuasiPeak [dBuV]} / \text{CAverage [dBuV]} = \text{Reading Value [dBuV]} + \text{Corr. [dB]}$$

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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Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea
Tel: +82-31-425-6200 / Fax: +82-31-424-0450
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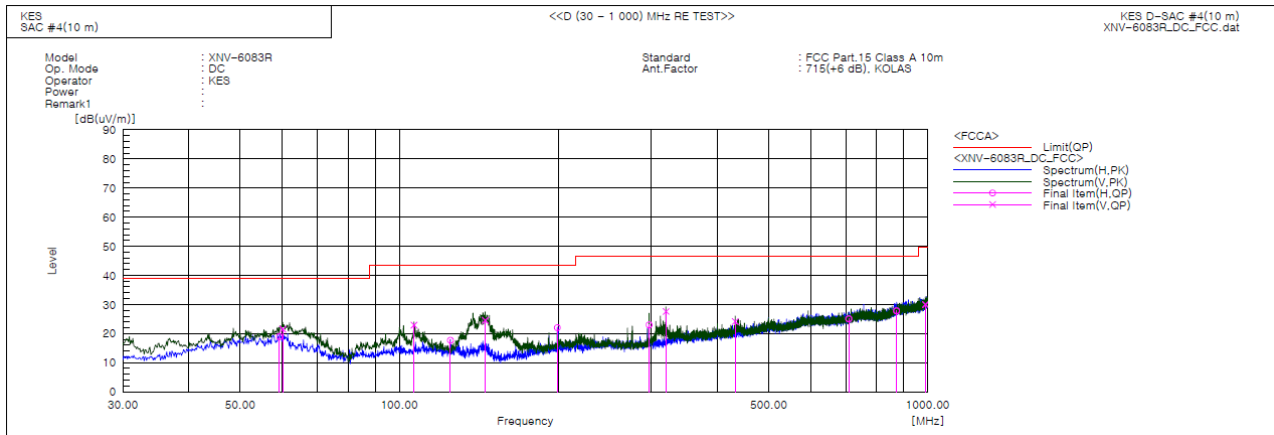
KES-EM-22T0608-R1

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Radiated Electric Field Emissions(Below 1 GHz)

- 47 CFR Part 15, Subpart B

■ DC Mode



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	H	40.8	-21.9	18.9	39.0	20.1	194.0	178.2	
2	60.191	V	43.5	-22.0	21.5	39.0	17.5	142.0	107.0	
3	106.630	V	45.3	-22.4	22.9	43.5	20.6	106.0	232.7	
4	124.939	H	42.6	-24.9	17.7	43.5	25.8	395.0	142.5	
5	145.430	V	50.0	-25.4	24.6	43.5	18.9	149.0	161.4	
6	199.144	H	43.0	-21.0	22.0	43.5	21.5	396.0	178.2	
7	296.993	H	41.1	-18.1	23.0	46.5	23.5	399.0	302.8	
8	319.545	V	44.4	-16.8	27.6	46.5	18.9	106.0	107.0	
9	431.944	V	37.7	-13.5	24.2	46.5	22.3	109.0	324.1	
10	708.515	H	32.6	-7.5	25.1	46.5	21.4	100.0	99.0	
11	872.688	H	32.5	-4.7	27.8	46.5	18.7	196.0	106.8	
12	989.694	V	32.8	-2.8	30.0	49.5	19.5	145.0	306.4	

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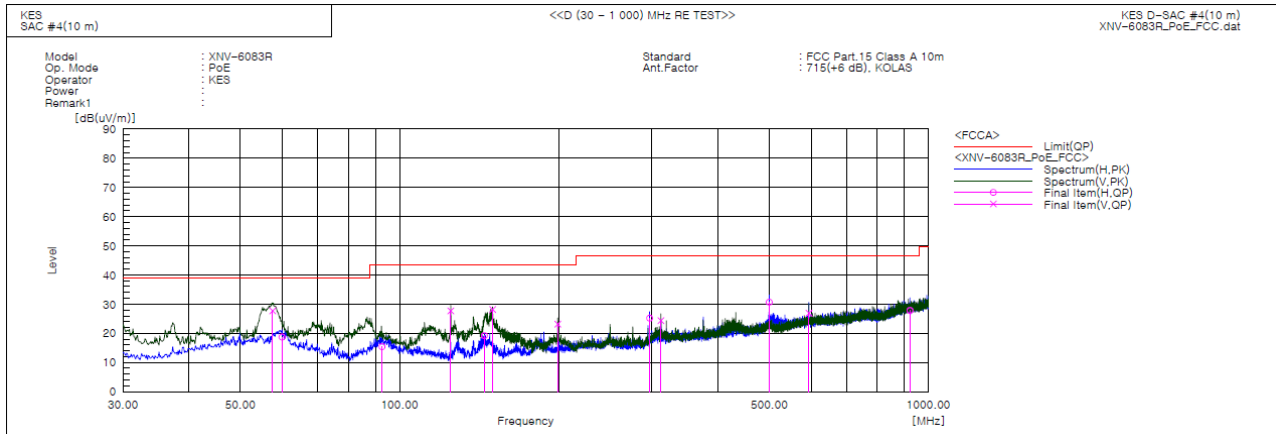
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Report No.:

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■ PoE Mode



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	57.524	V	49.3	-21.6	27.7	39.0	11.3	111.0	254.8	
2	59.949	H	40.7	-22.0	18.7	39.0	20.3	195.0	35.3	
3	92.686	H	39.2	-23.8	15.4	43.5	28.1	396.0	51.7	
4	124.939	V	52.6	-24.9	27.7	43.5	15.8	106.0	58.8	
5	144.703	H	44.6	-25.4	19.2	43.5	24.3	399.0	252.8	
6	149.916	V	53.5	-25.3	28.2	43.5	15.3	100.0	202.3	
7	199.144	V	44.2	-21.0	23.2	43.5	20.3	112.0	202.3	
8	296.993	H	43.3	-18.1	25.2	46.5	21.3	395.0	324.2	
9	312.028	V	41.7	-17.3	24.4	46.5	22.1	100.0	254.8	
10	500.086	H	42.2	-11.5	30.7	46.5	15.8	194.0	269.9	
11	594.055	V	35.5	-8.6	26.9	46.5	19.6	148.0	296.6	
12	922.521	H	31.7	-3.9	27.8	46.5	18.7	395.0	324.2	

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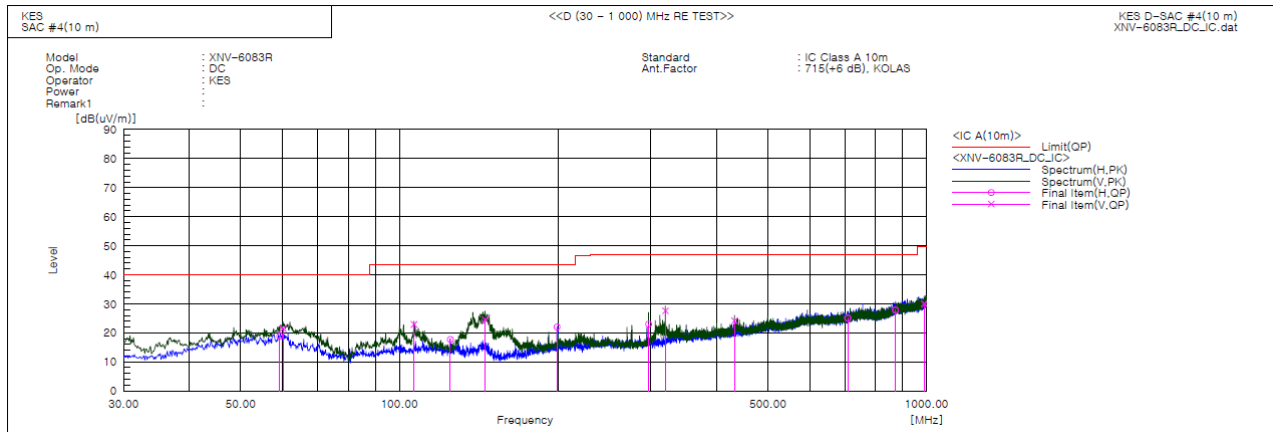
Report No.:

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- IC Regulation ICES-003 Issue 7

■ DC Mode



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	H	40.8	-21.9	18.9	40.0	21.1	194.0	178.2	
2	60.191	V	43.5	-22.0	21.5	40.0	18.5	142.0	107.0	
3	106.630	V	45.3	-22.4	22.9	43.5	20.6	106.0	232.7	
4	124.939	H	42.6	-24.9	17.7	43.5	25.8	395.0	142.5	
5	145.430	V	50.0	-25.4	24.6	43.5	18.9	149.0	161.4	
6	199.144	H	43.0	-21.0	22.0	43.5	21.5	396.0	178.2	
7	296.993	H	41.1	-18.1	23.0	47.0	24.0	399.0	302.8	
8	319.545	V	44.4	-16.8	27.6	47.0	19.4	106.0	107.0	
9	431.944	V	37.7	-13.5	24.2	47.0	22.8	109.0	324.1	
10	708.515	H	32.6	-7.5	25.1	47.0	21.9	100.0	99.0	
11	872.688	H	32.5	-4.7	27.8	47.0	19.2	196.0	106.8	
12	989.694	V	32.8	-2.8	30.0	49.5	19.5	145.0	306.4	

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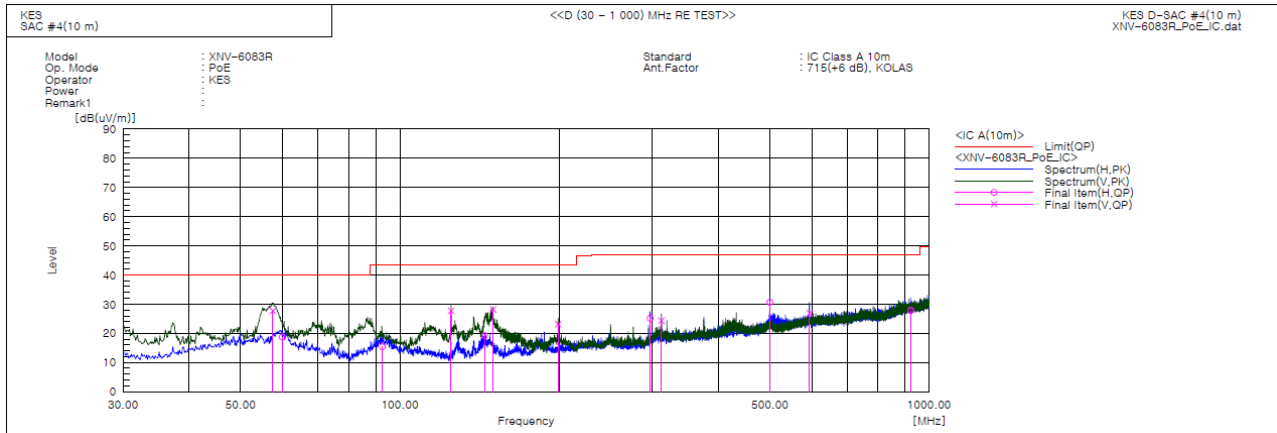
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■ PoE Mode



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	57.524	V	49.3	-21.6	27.7	40.0	12.3	111.0	254.8	
2	59.949	H	40.7	-22.0	18.7	40.0	21.3	195.0	35.3	
3	92.686	H	39.2	-23.8	15.4	43.5	28.1	396.0	51.7	
4	124.939	V	52.6	-24.9	27.7	43.5	15.8	106.0	58.8	
5	144.703	H	44.6	-25.4	19.2	43.5	24.3	399.0	252.8	
6	149.916	V	53.5	-25.3	28.2	43.5	15.3	100.0	202.3	
7	199.144	V	44.2	-21.0	23.2	43.5	20.3	112.0	202.3	
8	296.993	H	43.3	-18.1	25.2	47.0	21.8	395.0	324.2	
9	312.028	V	41.7	-17.3	24.4	47.0	22.6	100.0	254.8	
10	500.086	H	42.2	-11.5	30.7	47.0	16.3	194.0	269.9	
11	594.055	V	35.5	-8.6	26.9	47.0	20.1	148.0	296.6	
12	922.521	H	31.7	-3.9	27.8	47.0	19.2	395.0	324.2	

◆ Calculation - SAC #4(10 m)

Result(QP) [dB(μ V/m)] = (Reading(QP)[dB(μ V)] + c.f[dB(1/m)])

Margin(QP)[dB] = Limit[dB(μ V/m)] - Result(QP) [dB(μ 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

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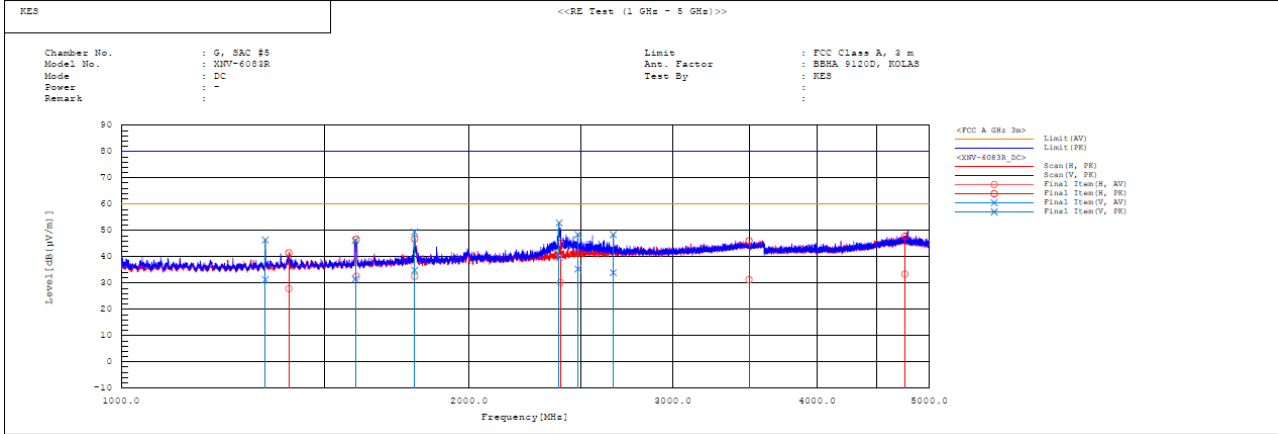
Report No.:

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Radiated Electric Field Emissions(Above 1 GHz)

■ DC Mode



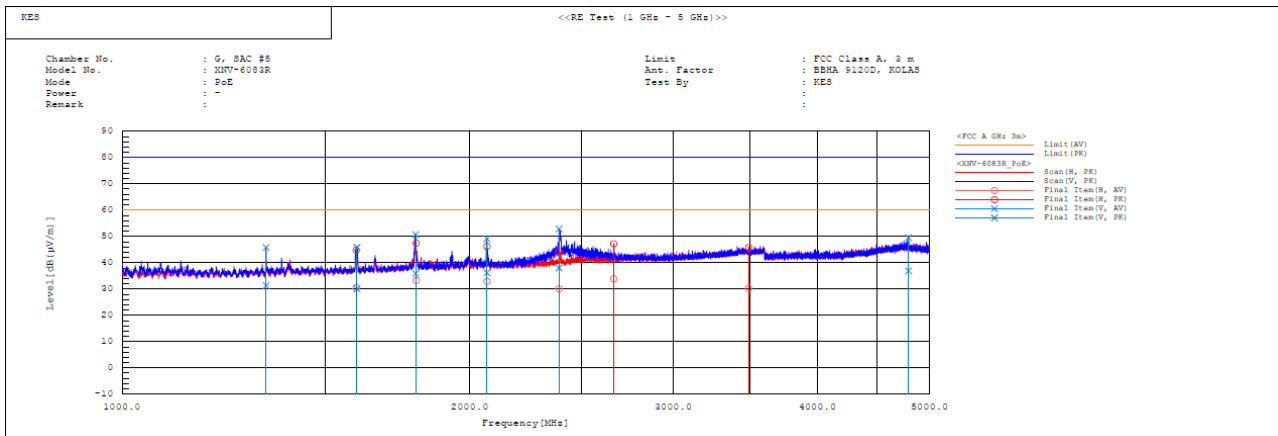
Final Result

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	1332.752	V	37.1	52.2	-5.8	31.3	46.4	60.0	80.0	28.7	33.6	149.0	12.0
2	1396.774	H	33.3	46.9	-5.4	27.9	41.5	60.0	80.0	32.1	38.5	103.0	34.3
3	1594.785	V	36.3	50.9	-4.7	31.6	46.2	60.0	80.0	28.4	33.8	102.0	177.8
4	1598.025	H	37.3	51.4	-4.7	32.6	46.7	60.0	80.0	27.4	33.3	197.0	71.3
5	1794.575	H	36.3	50.5	-3.7	32.6	46.8	60.0	80.0	27.4	33.2	387.0	96.2
6	1794.578	V	38.6	53.1	-3.7	34.9	49.4	60.0	80.0	25.1	30.6	149.0	170.5
7	2393.198	V	41.2	54.4	-1.5	39.7	52.9	60.0	80.0	20.3	27.1	387.0	169.3
8	2398.969	H	31.6	46.6	-1.4	30.2	45.2	60.0	80.0	29.8	34.8	389.0	53.2
9	2484.358	V	36.4	49.5	-1.1	35.3	48.4	60.0	80.0	24.7	31.6	399.0	159.6
10	2665.656	V	34.2	48.7	-0.3	33.9	48.4	60.0	80.0	26.1	31.6	148.0	8.5
11	3493.198	H	29.5	44.3	1.8	31.3	46.1	60.0	80.0	28.7	33.9	354.0	196.6
12	4763.527	H	27.1	41.5	6.3	33.4	47.8	60.0	80.0	26.6	32.2	198.0	99.1

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PoE Mode



Final Result

No.	Frequency	Pol	Reading AV	Reading PK	c.f	Result AV	Result PK	Limit AV	Limit PK	Margin AV	Margin PK	Height	Angle
	[MHz]		[dB (μV)]	[dB (μV)]	[dB (1/m)]	[dB (μV/m)]	[dB (μV/m)]	[dB (μV/m)]	[dB (μV/m)]	[dB]	[dB]	[cm]	[deg]
1	1332.785	V	37.1	51.6	-5.8	31.3	45.8	60.0	80.0	28.7	34.2	105.0	16.7
2	1594.758	H	35.2	49.5	-4.7	30.5	44.8	60.0	80.0	29.5	35.2	198.0	4.5
3	1597.578	V	34.8	50.5	-4.7	30.1	45.8	60.0	80.0	29.9	34.2	148.0	182.2
4	1795.805	V	39.6	54.4	-3.7	35.9	50.7	60.0	80.0	24.1	29.3	105.0	156.3
5	1797.578	H	37.0	51.2	-3.7	33.3	47.5	60.0	80.0	26.7	32.5	196.0	30.5
6	2070.387	V	38.7	51.6	-2.5	36.2	49.1	60.0	80.0	23.8	30.9	148.0	205.9
7	2070.425	H	35.4	48.7	-2.5	32.9	46.2	60.0	80.0	27.1	33.8	385.0	102.8
8	2389.537	V	39.5	54.4	-1.5	38.0	52.9	60.0	80.0	22.0	27.1	149.0	359.1
9	2389.870	H	31.6	45.7	-1.5	30.1	44.2	60.0	80.0	29.9	35.8	378.0	61.7
10	2665.452	H	34.2	47.5	-0.3	33.9	47.2	60.0	80.0	26.1	32.8	198.0	193.0
11	3487.657	H	28.5	44.0	1.8	30.3	45.8	60.0	80.0	29.7	34.2	196.0	1.1
12	4796.878	V	30.4	43.0	6.5	36.9	49.5	60.0	80.0	23.1	30.5	389.0	25.3

Calculation

Result(PK/CAV) [dB(μV/m)] = (Reading(PK/CAV)[dB(μV)] + c.f[dB(1/m)])

Margin(PK/CAV)[dB] = Limit[dB(μV/m)] - Result(PK/CAV) [dB(μV/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

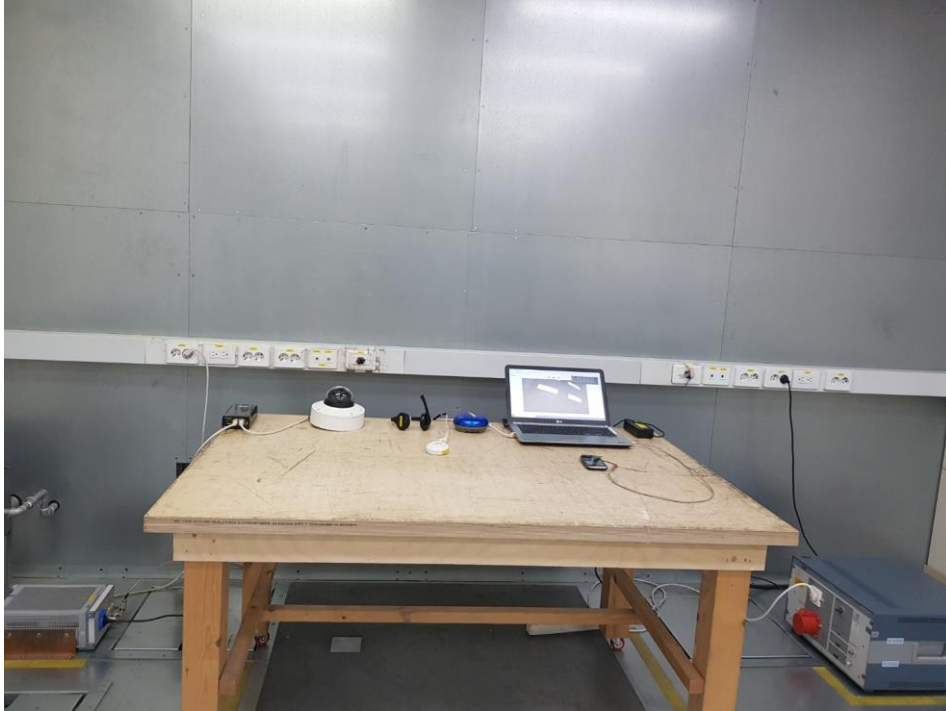
Conducted Emissions at Mains Power Ports

■ DC Mode



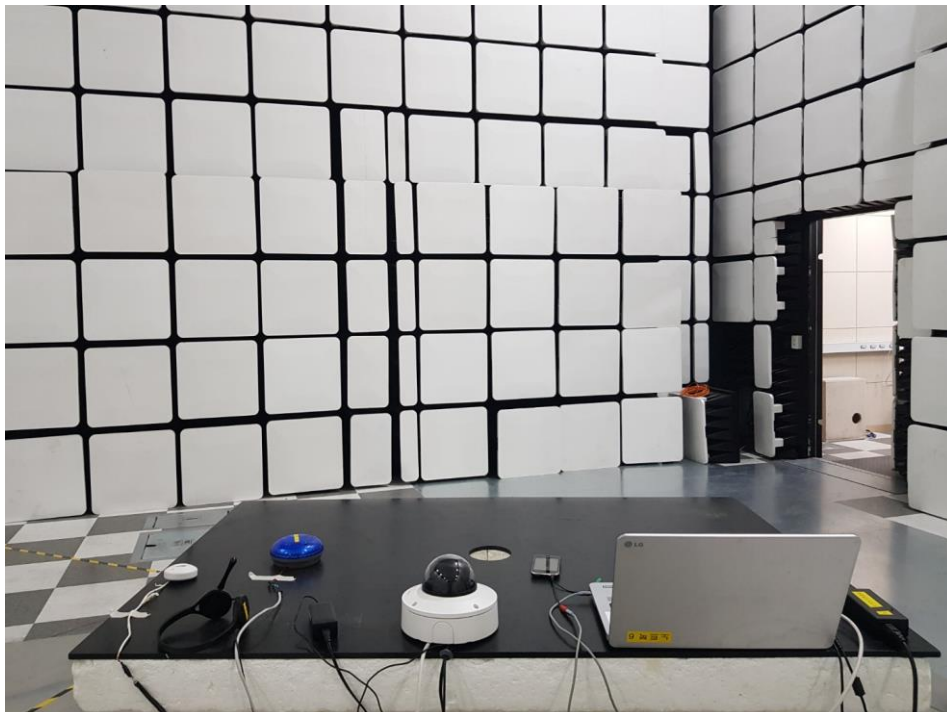
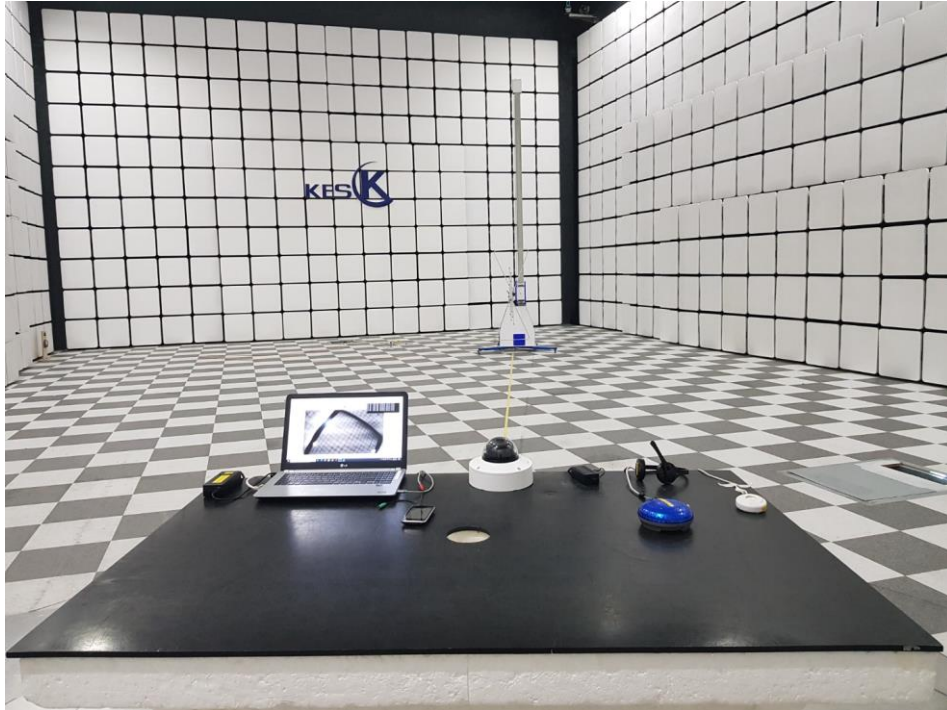
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■ PoE Mode



Radiated Electric Field Emissions(Below 1 GHz)

■ DC Mode



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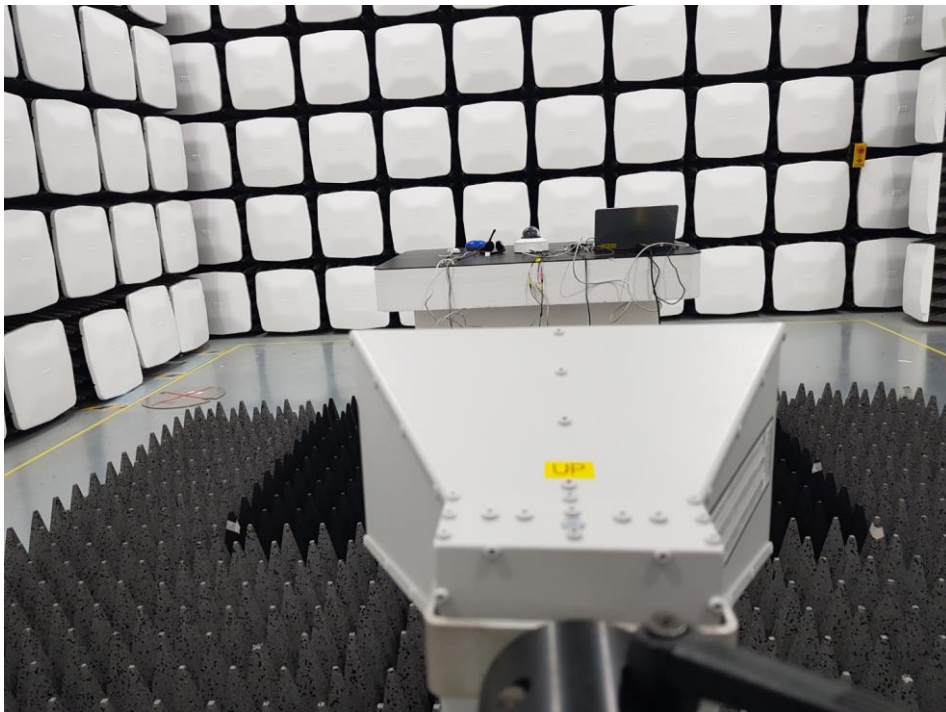
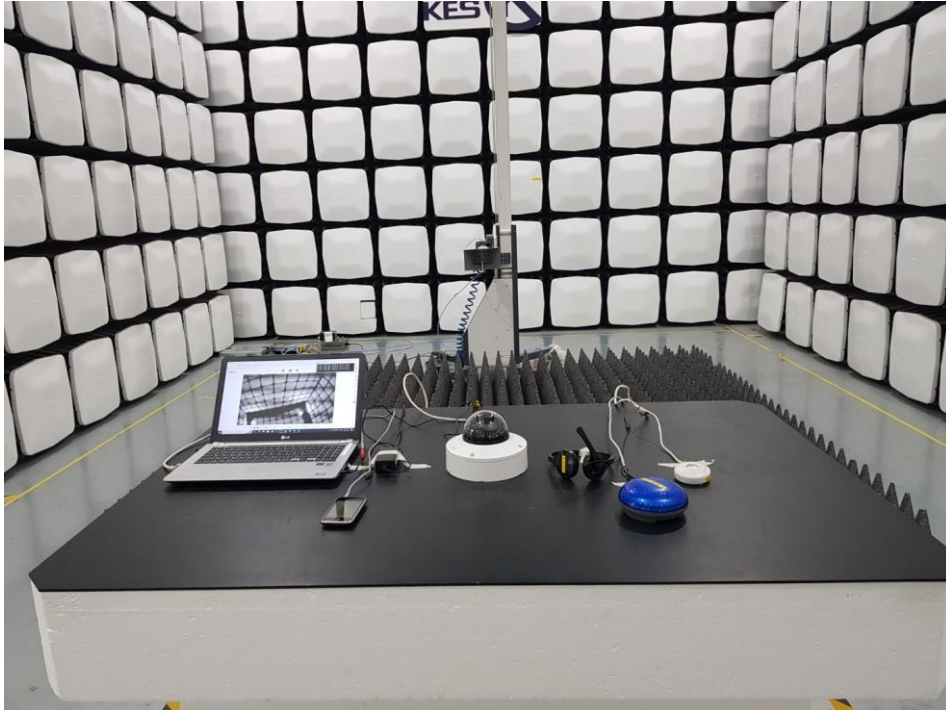
■ PoE Mode



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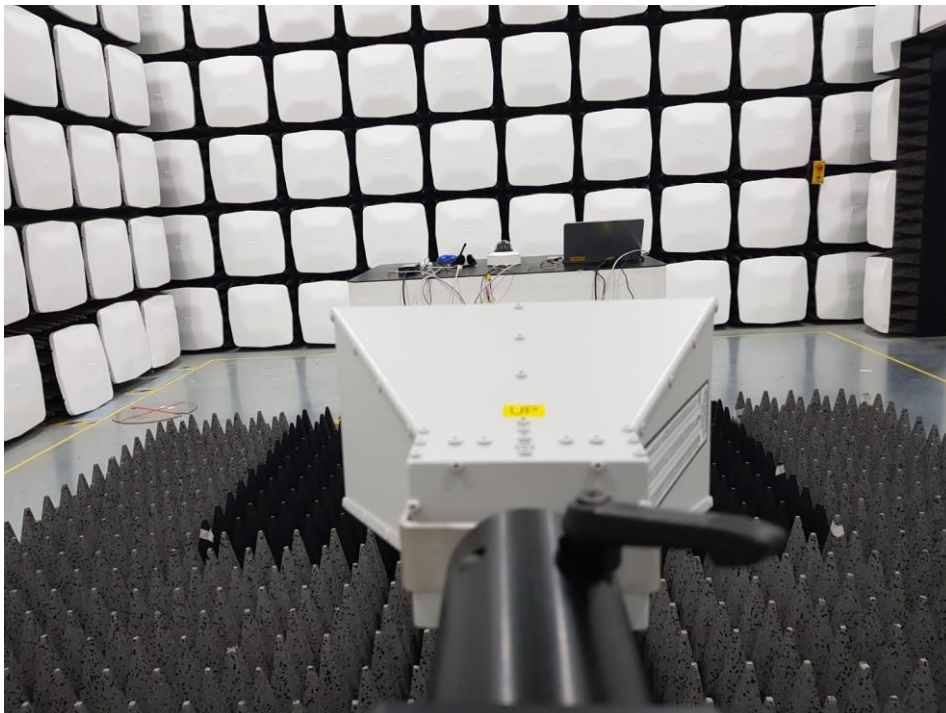
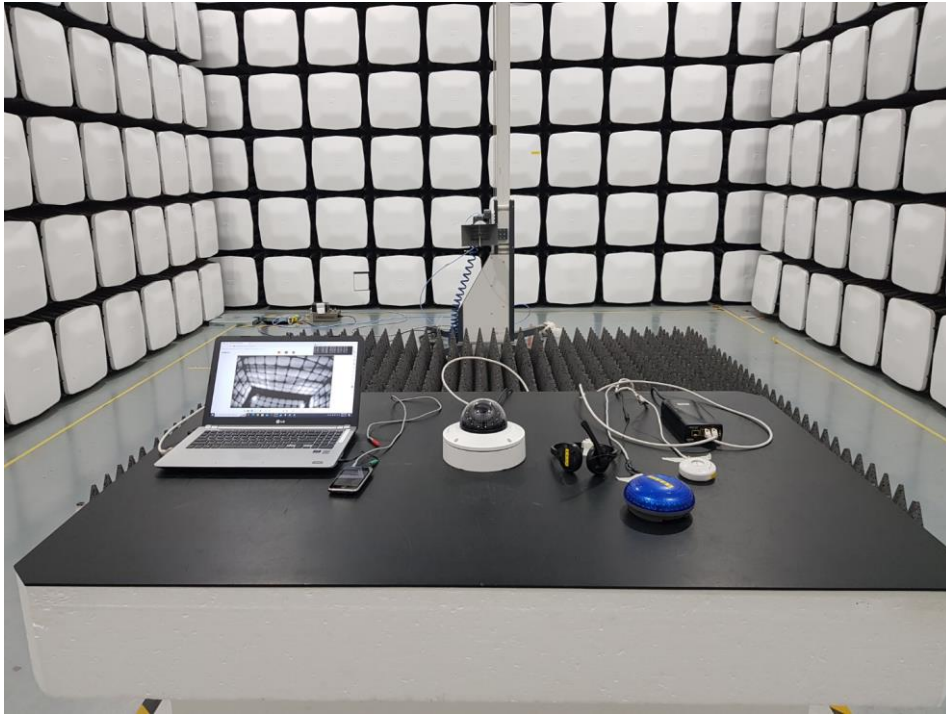
Radiated Electric Field Emissions(Above 1 GHz)

■ DC Mode



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■ PoE Mode



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EUT External Photographs

(Top)



(Bottom)



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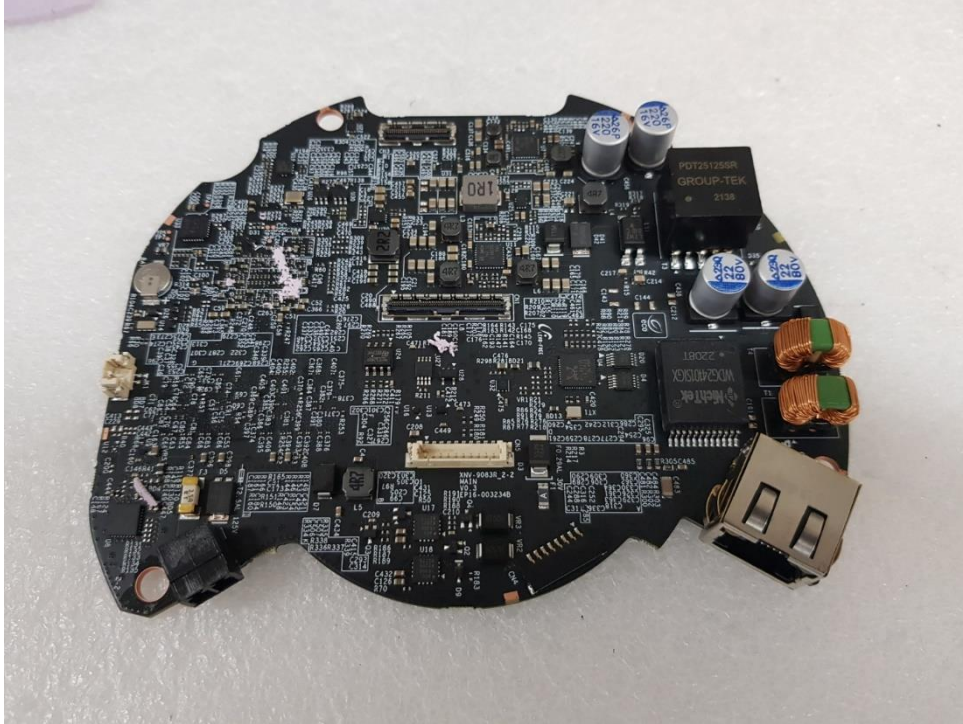
EUT Internal Photographs

(Internal View)

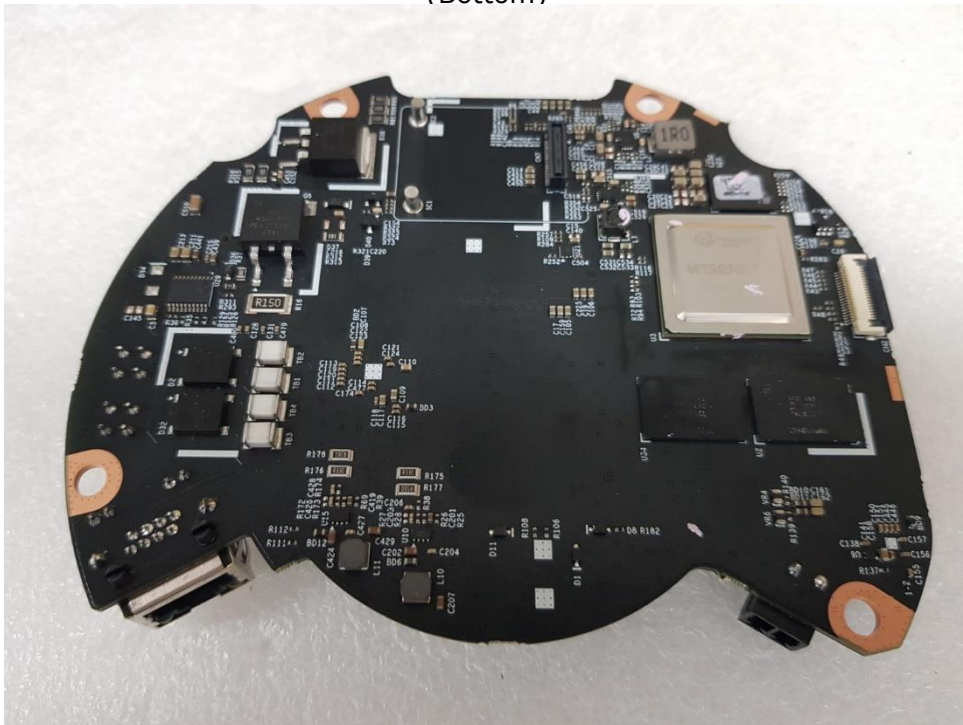


EUT Internal View – Main Board

(Top)



(Bottom)



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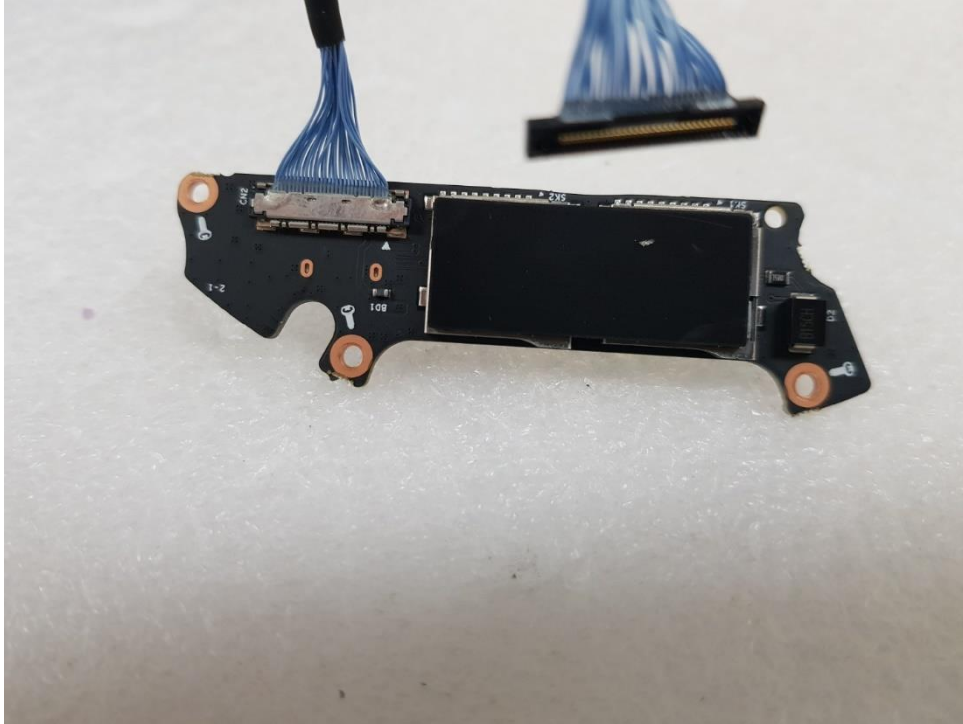
EUT Internal View – SUB Board 1

(Top)

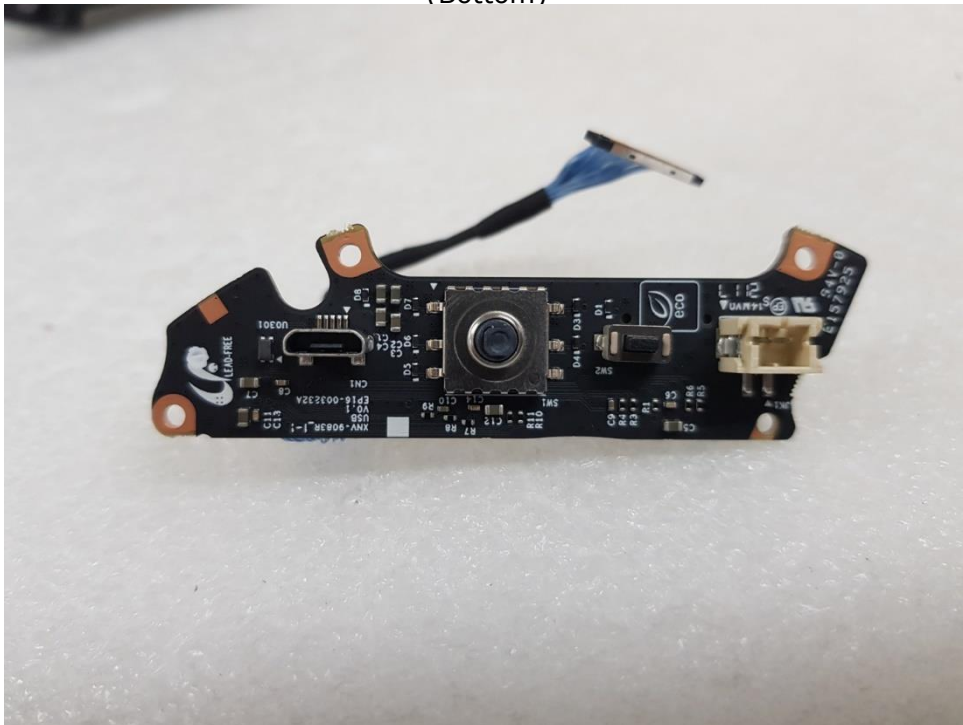


EUT Internal View – SUB Board 2

(Top)



(Bottom)



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EUT Internal View – SUB Board 3

(Top)



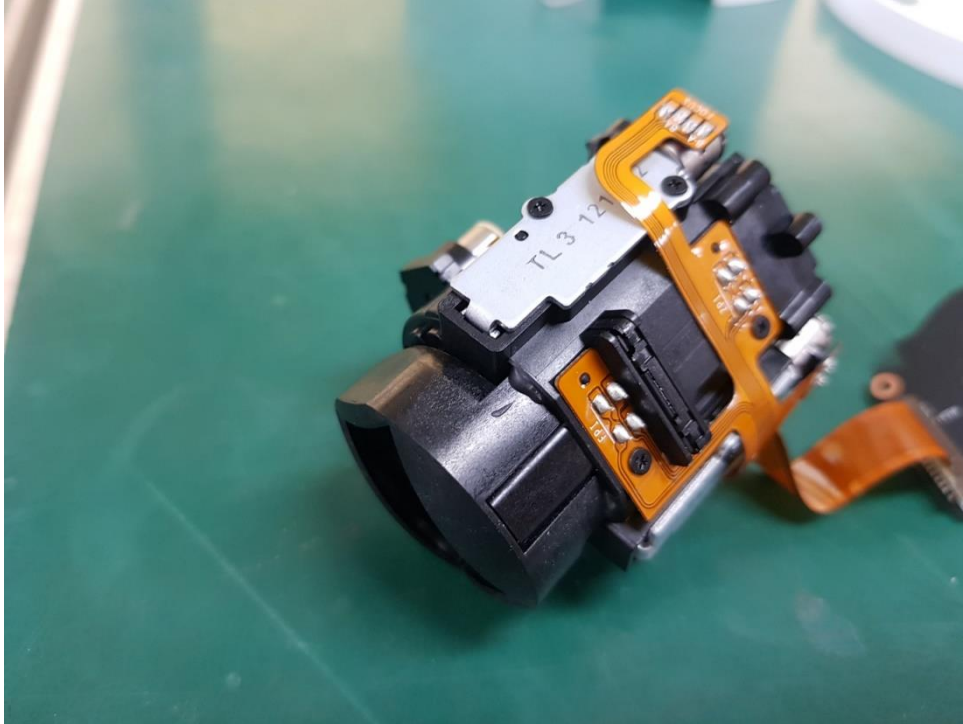
(Bottom)



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EUT Internal View – Lens

(Top)



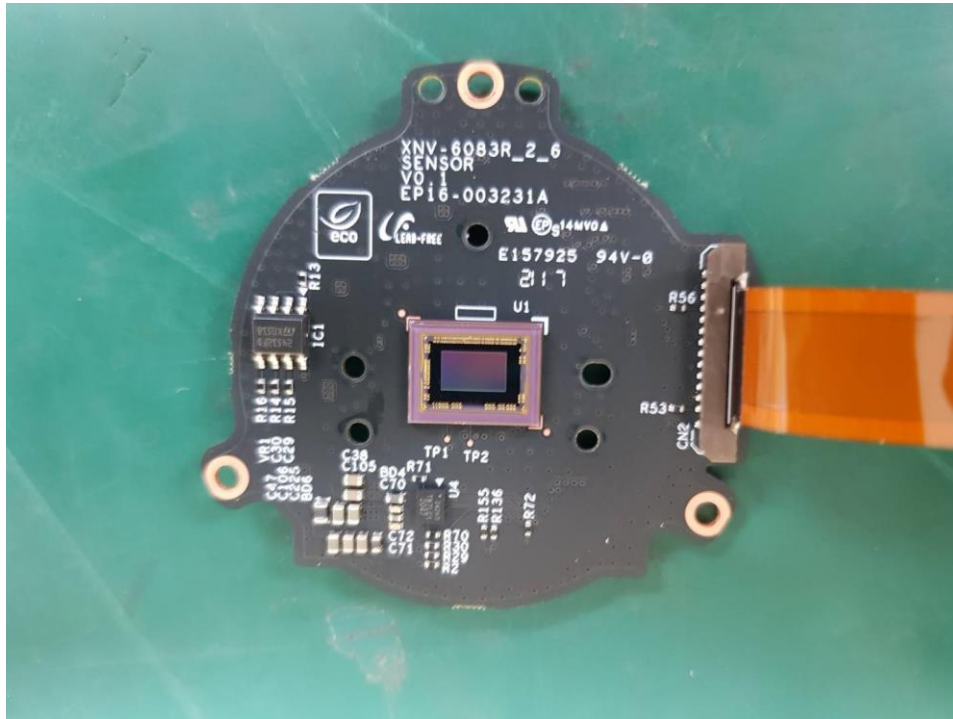
(Bottom)



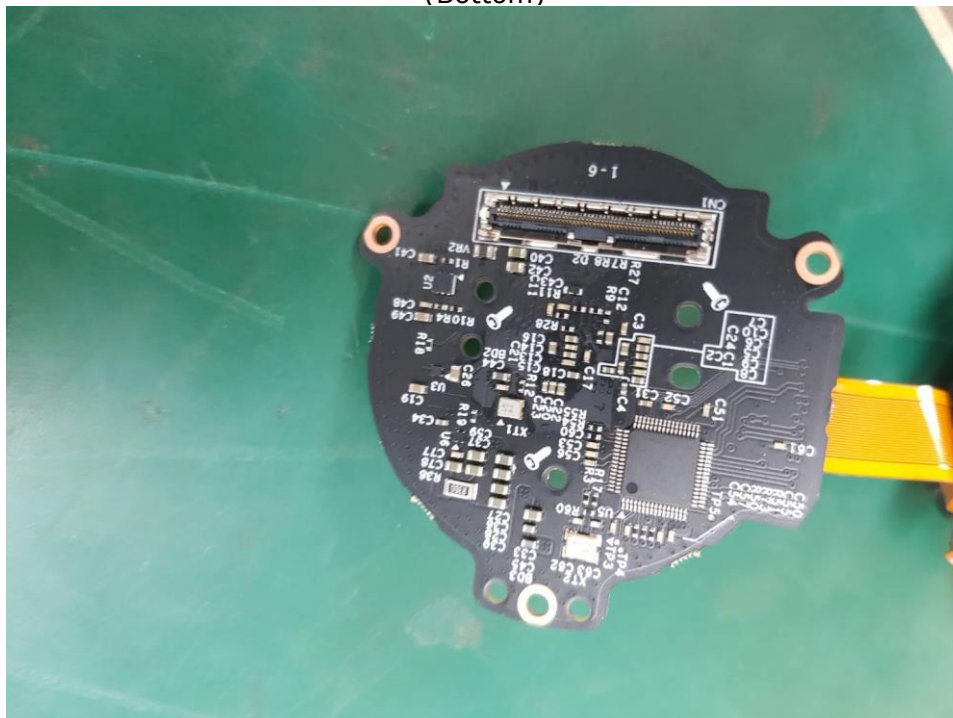
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EUT Internal View – Lens Board

(Top)



(Bottom)



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Label Photographs

FCC Label



Hanwha Vision Co., Ltd

XNV-6083R

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.