



EMC TEST REPORT

Test Report No. : KES-EM-21T0903-R1
Date of Issue : Feb. 24, 2023
Product name : NETWORK CAMERA
Model/Type No. : XND-6020R
Variant Model : KND-2020R, KND-2020RG, AND-X2020R
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 : Aug. 18, 2021
Test date : Aug. 19, 2021 ~ Aug. 20, 2021
Test Results : ☒ **In Compliance** ☐ **Not in Compliance**

Tested by

Ju-Won, Yun
EMC Test Engineer

Reviewed by

Dong-Hun, Jang
EMC Technical Manager

Tested by Ki Man, Kim
(Department Changed person)
Proxy signature : Yun-Ju, Won

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

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REPORT REVISION HISTORY

Date	Test Report No.	Revision History
Sep. 27, 2021	KES-EM-21T0903	Issued
Feb. 24, 2023	KES-EM-21T0903-R1	Change the Applicant and manufacturer at the request of the customer

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1.0 General Product Description

Main Specifications of EUT are:

Video	
Imaging Device	1/2.8" 2M CMOS
Total Pixels	1945(H) x 1109(V) 2.16M
Effective Pixels	1945(H) x 1097(V) 2.13M
Scanning System	Progressive Scan
Min. Illumination	Color : 0.015 lux(F1.4, 1/30sec) B/W : 0Lux(IR LED On)
S / N Ratio	50dB
Video Out	CVBS : 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P), for installation USB : Micro USB type B, 1280x720, for installation
Lens	
Focal Length (Zoom Ratio)	4mm Fixed
Max. Aperture Ratio	F1.4
Angular Field of View	H: 88.6°, V:47.5°, D: 104.8°
Min. Object Distance	0.4m
Focus Control	Manual
Lens Type	Fixed
Mount Type	Board-in type
Pan / Tilt / Rotate	
Pan / Tilt / Rotate range	0° ~ 354° / 0° ~ 67° / 0° ~ 355°
Operational	
IR Viewable Length	30m(98.43ft)
Camera Title	Off / On (Displayed up to 85 characters) W/W : English/Numeric/Special Characters China : English/Numeric/Special/Chinese Characters Common : Multi-line (Max 5), Color (Grey/Green/Red/Blue/Black/White), Transparency, Auto Scale by Resolution
Day & Night	Auto (ICR) / Color / B/W / External / Schedule
Backlight Compensation	Off / BLC / HLC(Masking/Dimming), WDR
Wide Dynamic Range	150dB
Contrast Enhancement	SSDR (Off / On)
Digital Noise Reduction	SSNR5 (2D+3D Noise Filter) (Off / On)
Digital Image Stabilization	Off / On
Defog	Auto(input from fog&Dust detection) / Manual / Off
Motion Detection	Off/ On(8ea, 8point Polygonal zones), Handover
Privacy Masking	Off / On (32ea, polygonal zones) Color : Grey/Green/Red/Blue/Black/White Mosaic
Gain Control	Off / Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor((included Mercury & Sodium))
Contrast	level adjustment
LDC	On/Off (5 levels with Min/Max)
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2 ~ 1/12,000sec)
Digital PTZ	24X, 'Digital PTZ(Preset, Group)

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Flip / Mirror	Flip : On/Off Mirror : On/Off Hallway view : 90°/270°
Video & Audio Analytics	Tampering, Loitering, Directional Detection, Defocus Detection, Fog&Dust Detection, Virtual Line, Enter/Exit, Appear / Disappear, Audio Detection, Face Detection, Motion Detection, Digital Auto Tracking, Sound Classification, People counting, Heat map, Queue management
Alarm I/O	Input 1ea / Output 1ea
Alarm Triggers	Alarm Input, Motion Detection, Intelligent Video Analytics, Network Disconnect
Alarm events	File upload via FTP, E-Mail Notification via E-Mail local storage(SD/SDHC/SDXC) or NAS recording at Event Triggers External output DPTZ preset
Audio In	Selectable (Mic IN/Line IN), Built-in MIC. Max output level : 1Vrms Supply voltage: 2.5VDC(4mA), Input impedance: approx. 2K Ohm
Audio out	Line out, Max output level: 1 Vrms
Pixel Counter	Support
Network	
Ethernet	RJ-45 (10/100BASE-T)
Video Compression Forma	H.265/H.264 (MPEG-4 Part 10/AVC) : Main/Baseline/High , Motion JPEG
Resolution	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264 : Max. 60fps at all resolutions Motion JPEG : Max. 30fps
Smart Codec	Manual Mode (area-based : 5EA)
WiseStreamII	Support
Video Quality Adjustment	H.264/H.265 : Target Bitrate Level Control MJPEG : Target Bitrate Level Control
Bitrate Control Method	H.264/H.265 : CBR or VBR MJPEG : VBR
Streaming Capability	Multiple Streaming (Up to 10 Profiles)
Audio Compression Forma	G.711 u-law /G.726 Selectable G.726 (ADPCM) 8KHz, G.711 8KHz G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC : 48Kbps at 8/16/32/48KHz
Audio Communication	Bi-dierctional (2-Way)
IP	IPv4, IPv6
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour
	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access Log 802.1X Authentication (EAP-TLS, EAP-LEAP)

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Security	- Streaming Encryption 기능구현
Streaming Method	Unicast / Multicast
Max. User Access	20 users at Unicast Mode
Edge Storage	SD/SDHC/SDXC 2slot (up to 512 GB) Continuous recording(1'st slot to 2'nd slot) Motion Images recorded in the SD/SDHC/SDXC memory card can be downloaded. NAS(Network Attached Storage) Local PC for Instant Recording
Application Programming I	ONVIF Profile S/G SUNAPI(HTTP API) Open Platform
Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish,, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
Web Viewer	Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10. 10.11 10.12 Non-plugin Webviewer Supported Browser: Google Chrome 54, MS Edge 38, Mozilla Firefox 49(Window 64bit only) , Apple Safari 9 (Mac OS X only) Plug-in Webviewer Supported Browser : MS Explore 11, Apple Safari 9 (Mac OS X only)
Central Management Soft	SmartViewer, SSM
Environmental	
Operating Temperature / Humidity	-10°C ~ +55°C (-14°F ~ +131°F) / Less than 90% RH
Storage Temperature / Humidity	-50°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH
Ingress Protection	-
Vandal Resistance	IK08
Electrical	
Input Voltage / Current	DC12V,PoE(IEEE802.3af,Class3)
Power Consumption	Max. 8W(12VDC), Max. 9W(PoE)
Mechanical	
Color / Material	Ivory / Metal
Dimension (WxHxD)	Ø110xH90mm(Ø4.33" x 3.54")
Weight	365g (0.8lb)

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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

1.2 Variant Model Differences

Addition of derivative models for place of sale management

1.3 Device Modifications

Not applicable

1.4 Equipment Under Test

Description	Model Number	Serial Number	Manufacturer	Remarks
NETWORK CAMERA	XND-6020R	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT

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1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
Adaptor	2ACB022F	-	Channel Well Technology (Guangzhou) Co., Ltd.	-
PoE Adaptor	PT-PSE106GBRO-AH-S	-	Dongguan PROCET Network Technology Co.,Ltd	-
Notebook	P98F004	21599158359	DELL INC.	-
Notebook Adaptor	LA240PM190	-	LITE-ON TECHNOLOGY(CHANGZHOU)CO.,LTD.	-
Alarm1	-	-	-	-
Alarm2	-	-	-	-
Smartphone	LG-SU760	108KPQJ0186212	LG	-
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	U
	Slot	Micro SD Card1	Slot	-	-
	Slot	Micro SD Card2	Slot	-	-
	3 Pin	Alarm1	3 Pin	3.0	U
	2 Pin	Alarm2	2 Pin	3.0	U
	3.5 mm	Headset	3.5 mm	1.7	U
	3.5 mm			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

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■ PoE Mode

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
NETWORK CAMERA (EUT) Notebook	RJ-45 (PoE)	PoE Adaptor	RJ-45 (PoE)	3.0	U
	Slot	Micro SD Card1	Slot	-	-
	Slot	Micro SD Card2	Slot	-	-
	3 Pin	Alarm1	3 Pin	3.0	U
	2 Pin	Alarm2	2 Pin	3.0	U
	3.5 mm	Headset	3.5 mm	1.7	U
	3.5 mm			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
PoE Adaptor	external ground	ground connection	external ground	1.7	U

* Unshielded=U, Shielded=S

1.7 EUT Operating Mode(s)

Test Mode	operating
DC Mode	EUT Monitoring, Ping Test
PoE Mode	

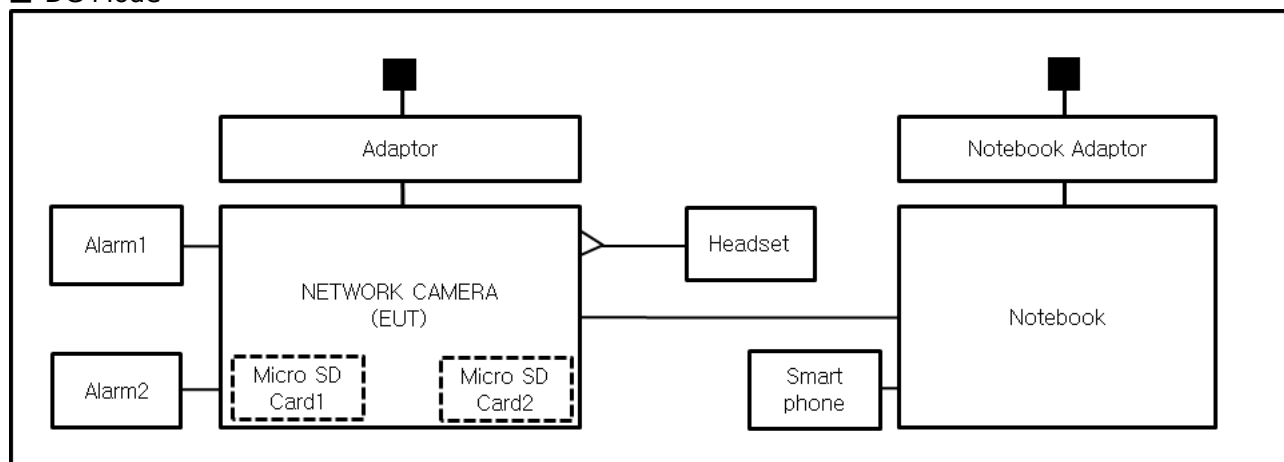
EUT Test operating S/W		
Name	Version	Manufacture Company
Web Viewer	-	Hanwha Vision Co., Ltd

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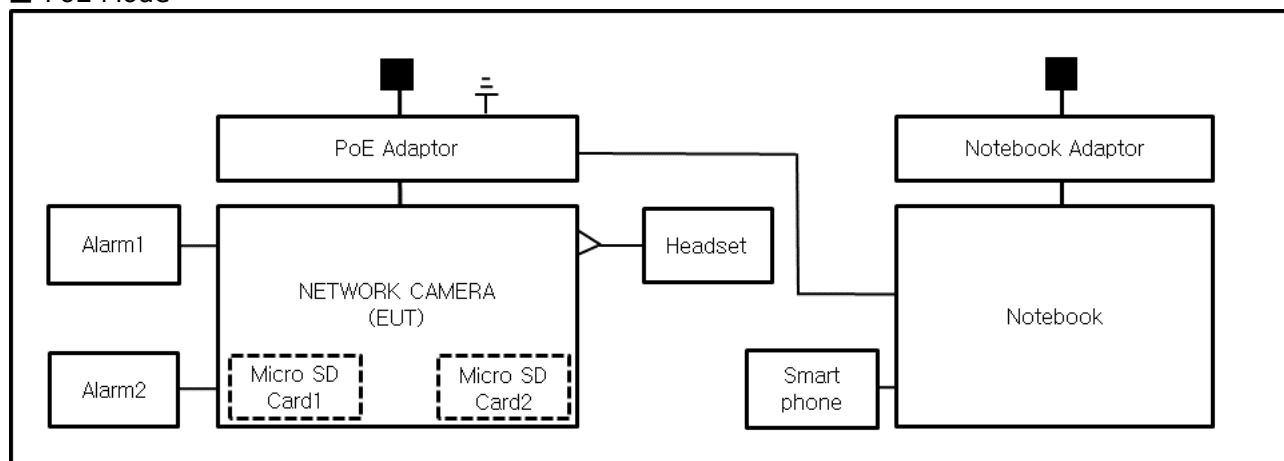
1.8 Configuration

■ 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:

☐ **EMC – Directive 2014/30/EU**

☐ EN 61000-6-3:2011

☐ EN 61000-6-1:2007

☐ EN 61000-6-4:2007 +A1:2011

☐ EN 61000-6-2:2005

☐ EN 55011:2007 +A1:2010

☐ Group 1
☐ Class A

☐ Group 2
☐ Class B

☐ EN 55014-1:2006 +A2:2011

☐ EN 55014-2:1997 +A2:2008

☐ EN 55015:2013

☐ EN 55032:2015

☐ Class A

☐ Class B

☐ EN 55024:2010

☐ EN 50130-4:2011 +A1:2014

☐ EN 61000-3-2:2014

☐ EN 61000-3-3:2013

☐ EN 61326-1:2013

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☐ **VCCI-CISPR 32:2016**☐ Class A☐ Class B☐ **AS/NZS CISPR32:2015**☐ Class A☐ Class B☒ **47 CFR Part 15, Subpart B**☐ CISPR 22:2009 +A1:2010☐ Class A☐ Class B☒ ANSI C63.4-2017☒ Class A☐ Class B☒ **IC Regulation ICES-003 Issue 7**☒ CAN/CSA CISPR 32-17☒ Class A☐ Class B☐ ANSI C63.4-2017☐ Class A☐ Class B☐ **RE- Directive 2014/53/EU**☐ EN 301 489-1 V1.9.2

- ☐ Equipment for fixed use
- ☐ Equipment for vehicular use
- ☐ Equipment for portable use

☐ EN 301 489-3 V1.6.1☐ EN 301 489-17 V2.2.1☐ EN 60945:2002

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2.1 Conducted Emissions at Mains Power Ports

Test Date

Aug. 19, 2021

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	01, 15, 2022
☒	LISN	ENV216	R & S	101787	12, 29, 2021
☒	LISN	ESH2-Z5	R & S	100450	12, 29, 2021
☒	PULSE LIMITER	ESH3-Z2	R & S	101915	12, 29, 2021

Test Conditions

Temperature: (24,1 ± 0,1) °C

Relative Humidity: (49,0 ± 0,2) % 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

Aug. 19, 2021

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	04, 01, 2022
☒	AMPLIFIER	SCU 01	R & S	100603	11, 25, 2021
☒	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	12, 08, 2022
☒	ATTENUATOR	8491A	HP	32173	03, 10, 2022

Test Conditions

Temperature: (23,6 ± 0,2) °C

Relative Humidity: (48,8 ± 0,3) % 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.

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2.3 Radiated Electric Field Emissions(Above 1 GHz)

Test Date

Aug. 20, 2021

Test Location

SEMI ANECHOIC CHAMBER #5

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.120	-
☒	EMI TEST RECEIVER	ESU26	Rohde & Schwarz	100552	04, 01, 2022
☒	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	12, 14, 2021
☒	PREAMPLIFIER	8449B	HP	3008A00538	06, 21, 2022

Test Conditions

Temperature: (25,4 ± 0,2) °C

Relative Humidity: (49,3 ± 0,3) % 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

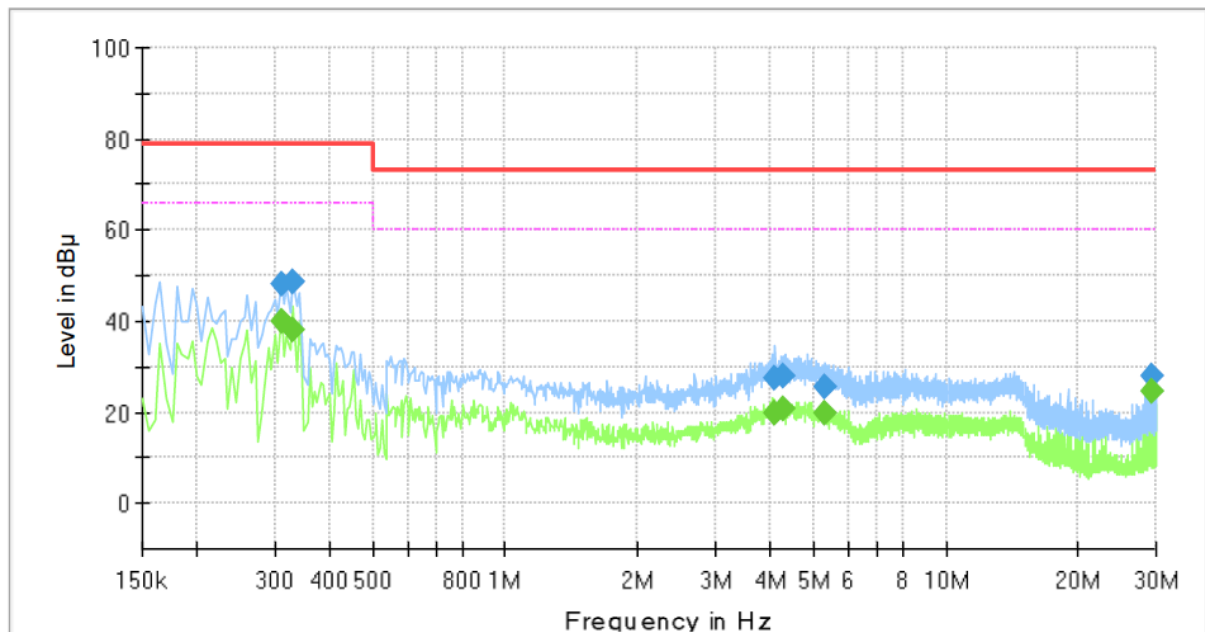
Conducted Emissions at Mains Power Ports

■ DC Mode

HOT LINE

Common Information

Test Description:	Conducted Emission
Model No.:	XND-6020R
Phase:	L1
Mode:	DC
Operator Name:	KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.310000	---	40.04	66.00	25.96	1000.0	9.000	L1	19.6
0.310000	48.02	---	79.00	30.98	1000.0	9.000	L1	19.6
0.330000	---	38.02	66.00	27.98	1000.0	9.000	L1	19.6
0.330000	48.53	---	79.00	30.47	1000.0	9.000	L1	19.6
4.105000	---	20.00	60.00	40.00	1000.0	9.000	L1	19.9
4.105000	27.38	---	73.00	45.62	1000.0	9.000	L1	19.9
4.270000	---	20.89	60.00	39.11	1000.0	9.000	L1	19.9
4.270000	28.12	---	73.00	44.88	1000.0	9.000	L1	19.9
5.285000	---	19.56	60.00	40.44	1000.0	9.000	L1	19.6
5.285000	25.68	---	73.00	47.32	1000.0	9.000	L1	19.6
29.235000	---	24.55	60.00	35.45	1000.0	9.000	L1	20.4
29.235000	27.77	---	73.00	45.23	1000.0	9.000	L1	20.4

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Report No.:

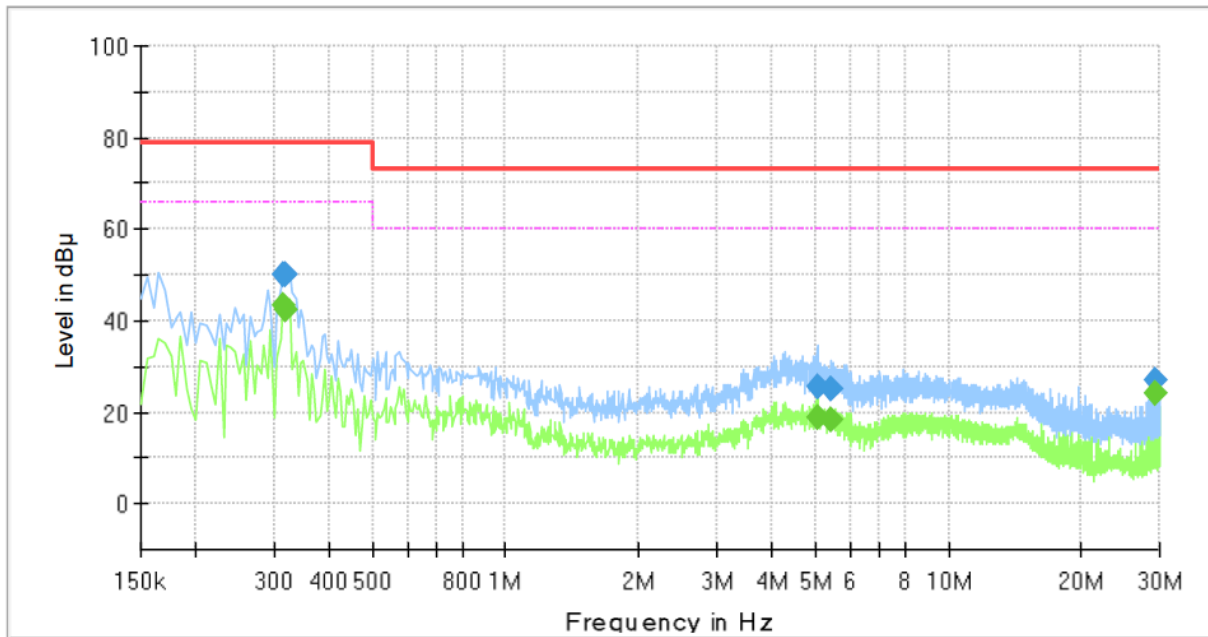
KES-EM-21T0903-R1

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NEUTRAL LINE

Common Information

Test Description:	Conducted Emission
Model No.:	XND-6020R
Phase:	N
Mode:	DC
Operator Name:	KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.315000	---	43.33	66.00	22.67	1000.0	9.000	N	19.6
0.315000	49.90	---	79.00	29.10	1000.0	9.000	N	19.6
0.320000	---	42.19	66.00	23.81	1000.0	9.000	N	19.6
0.320000	49.85	---	79.00	29.15	1000.0	9.000	N	19.6
5.045000	---	18.84	60.00	41.16	1000.0	9.000	N	19.7
5.045000	25.50	---	73.00	47.50	1000.0	9.000	N	19.7
5.445000	---	18.54	60.00	41.46	1000.0	9.000	N	19.6
5.445000	25.05	---	73.00	47.95	1000.0	9.000	N	19.6
29.235000	---	23.97	60.00	36.03	1000.0	9.000	N	20.4
29.235000	27.17	---	73.00	45.83	1000.0	9.000	N	20.4

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PoE Mode
HOT LINE
Common Information

Test Description:

Model No.:

Phase:

Mode:

Operator Name:

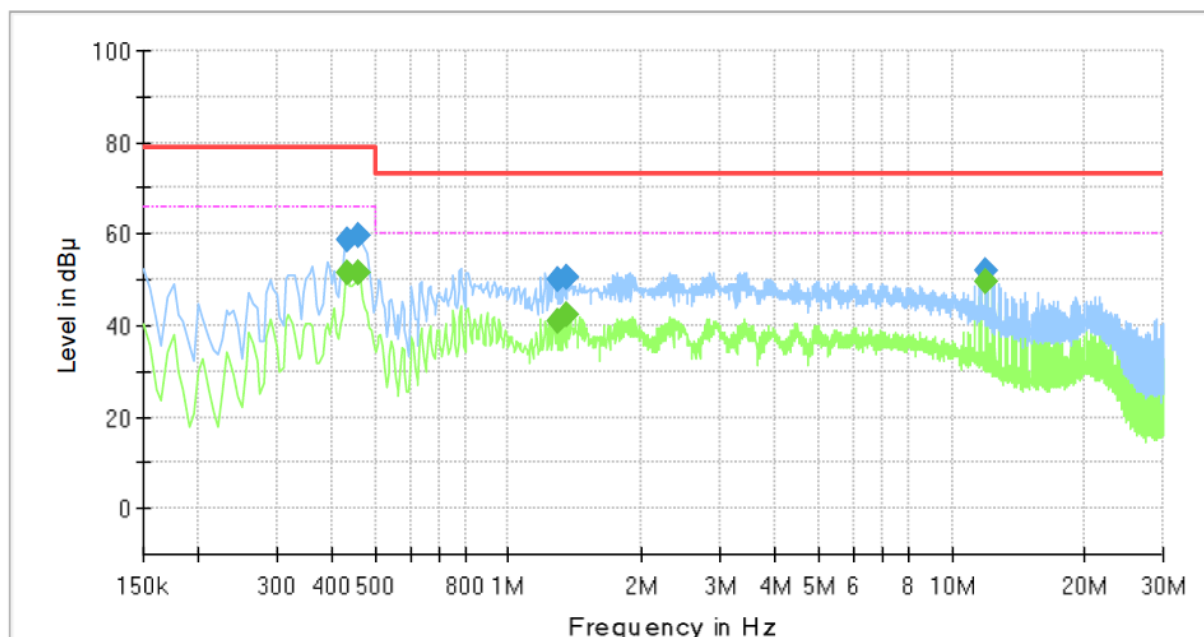
Conducted Emission

XND-6020R

L1

PoE

KES


Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.435000	---	51.33	66.00	14.67	1000.0	9.000	L1	19.7
0.435000	58.91	---	79.00	20.09	1000.0	9.000	L1	19.7
0.460000	---	51.63	66.00	14.37	1000.0	9.000	L1	19.7
0.460000	59.70	---	79.00	19.30	1000.0	9.000	L1	19.7
1.295000	---	40.76	60.00	19.24	1000.0	9.000	L1	20.2
1.295000	49.83	---	73.00	23.17	1000.0	9.000	L1	20.2
1.355000	---	42.37	60.00	17.63	1000.0	9.000	L1	20.2
1.355000	50.47	---	73.00	22.53	1000.0	9.000	L1	20.2
11.900000	---	49.49	60.00	10.51	1000.0	9.000	L1	20.0
11.900000	51.78	---	73.00	21.22	1000.0	9.000	L1	20.0

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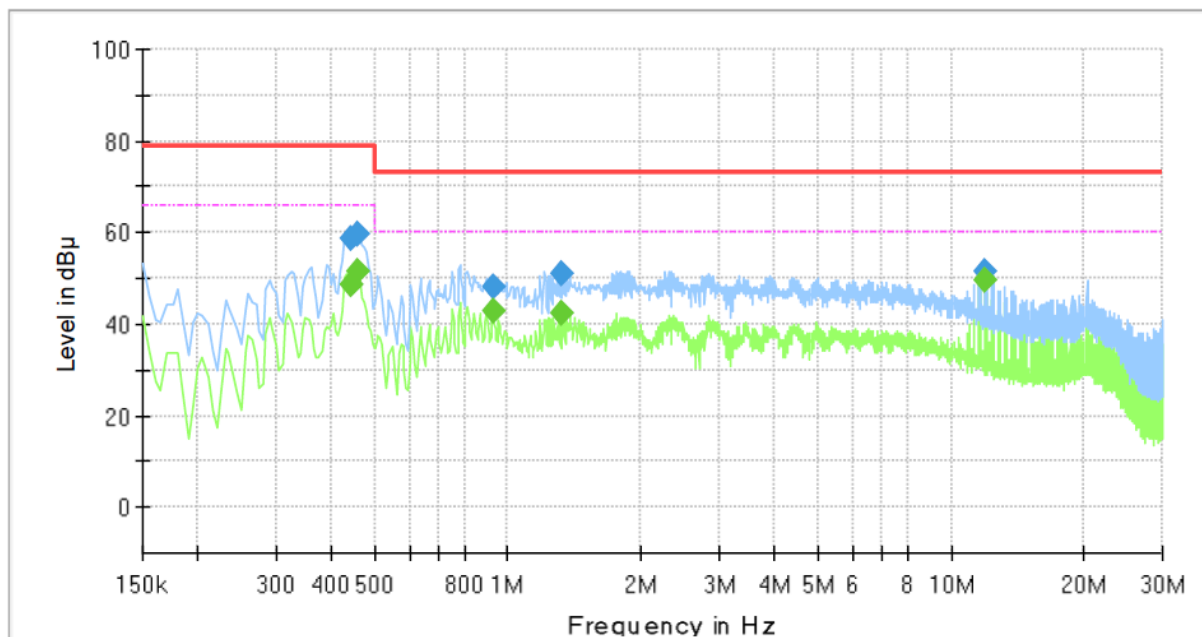
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NEUTRAL LINE

Common Information

Test Description:	Conducted Emission
Model No.:	XND-6020R
Phase:	N
Mode:	PoE
Operator Name:	KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.445000	---	48.47	66.00	17.53	1000.0	9.000	N	19.7
0.445000	58.69	---	79.00	20.31	1000.0	9.000	N	19.7
0.460000	---	51.65	66.00	14.35	1000.0	9.000	N	19.7
0.460000	59.67	---	79.00	19.33	1000.0	9.000	N	19.7
0.925000	---	42.78	60.00	17.22	1000.0	9.000	N	20.1
0.925000	48.13	---	73.00	24.87	1000.0	9.000	N	20.1
1.325000	---	42.31	60.00	17.69	1000.0	9.000	N	20.2
1.325000	51.09	---	73.00	21.91	1000.0	9.000	N	20.2
11.900000	---	49.42	60.00	10.58	1000.0	9.000	N	20.0
11.900000	51.72	---	73.00	21.28	1000.0	9.000	N	20.0

◆ 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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Report No.:

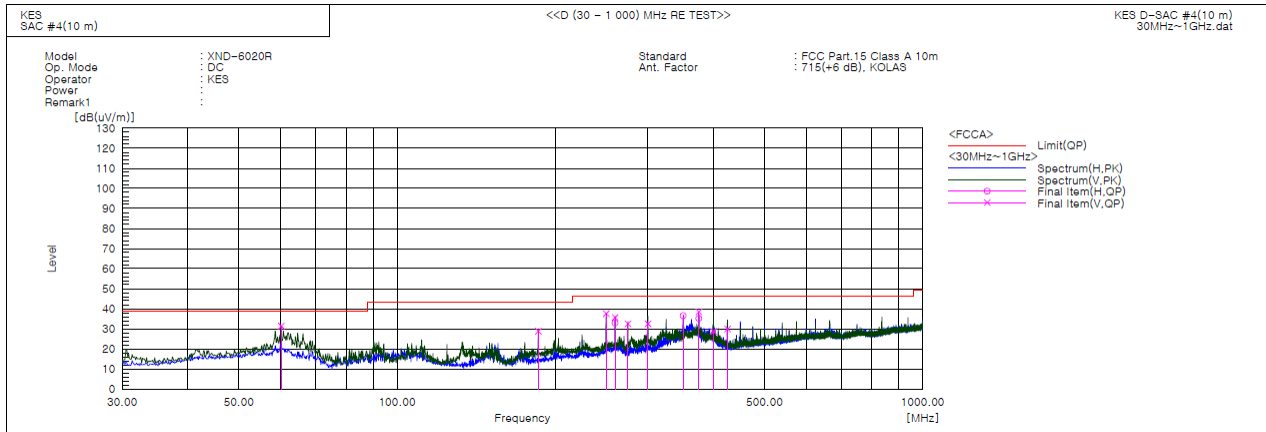
KES-EM-21T0903-R1

Page (22) of (41)

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	60.191	V	53.4	-22.0	31.4	39.0	7.6	100.0	89.0	
2	185.564	V	51.5	-22.6	28.9	43.5	14.6	177.0	34.0	
3	249.948	V	56.7	-19.1	37.6	46.5	8.9	102.0	45.0	
4	259.890	V	54.6	-18.9	35.7	46.5	10.8	215.0	21.0	
5	259.895	H	51.8	-18.9	32.9	46.5	13.6	400.0	139.0	
6	274.925	V	51.1	-18.6	32.5	46.5	14.0	266.0	96.0	
7	300.024	V	50.4	-17.9	32.5	46.5	14.0	112.0	21.0	
8	349.979	H	51.9	-15.3	36.6	46.5	9.9	326.0	79.0	
9	374.956	V	53.2	-14.8	38.4	46.5	8.1	121.0	141.0	
10	374.961	H	50.0	-14.8	35.2	46.5	11.3	266.0	274.0	
11	399.934	V	43.0	-14.2	28.8	46.5	17.7	331.0	183.0	
12	425.033	V	43.7	-13.7	30.0	46.5	16.5	400.0	343.0	

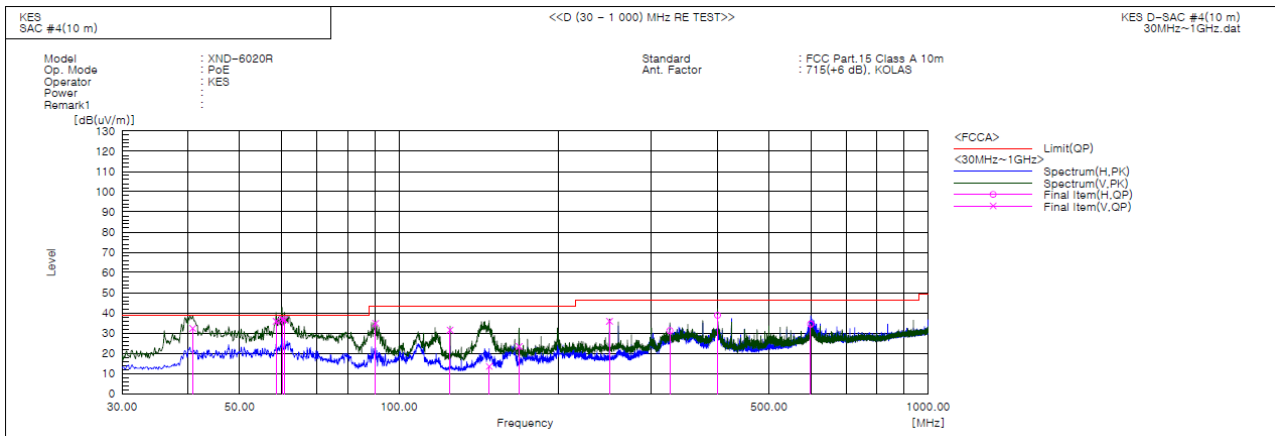
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PoE Mode



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	40.791	V	54.7	-22.3	32.4	39.0	6.6	101.0	326.0	
2	58.615	V	57.7	-21.8	35.9	39.0	3.1	162.0	283.0	
3	60.191	V	59.0	-22.0	37.0	39.0	2.0	100.0	100.0	
4	60.798	V	58.7	-22.2	36.5	39.0	2.5	119.0	69.0	
5	90.383	V	58.9	-24.1	34.8	43.5	8.7	146.0	117.0	
6	124.939	V	56.3	-24.8	31.5	43.5	12.0	100.0	122.0	
7	148.098	V	38.7	-25.2	13.5	43.5	30.0	100.0	311.0	
8	168.710	V	47.5	-24.1	23.4	43.5	20.1	251.0	102.0	
9	249.948	V	55.0	-19.1	35.9	46.5	10.6	400.0	2.0	
10	325.001	H	47.7	-16.4	31.3	46.5	15.2	400.0	279.0	
11	400.055	H	53.0	-14.2	38.8	46.5	7.7	251.0	251.0	
12	599.269	H	42.9	-8.4	34.5	46.5	12.0	198.0	288.0	

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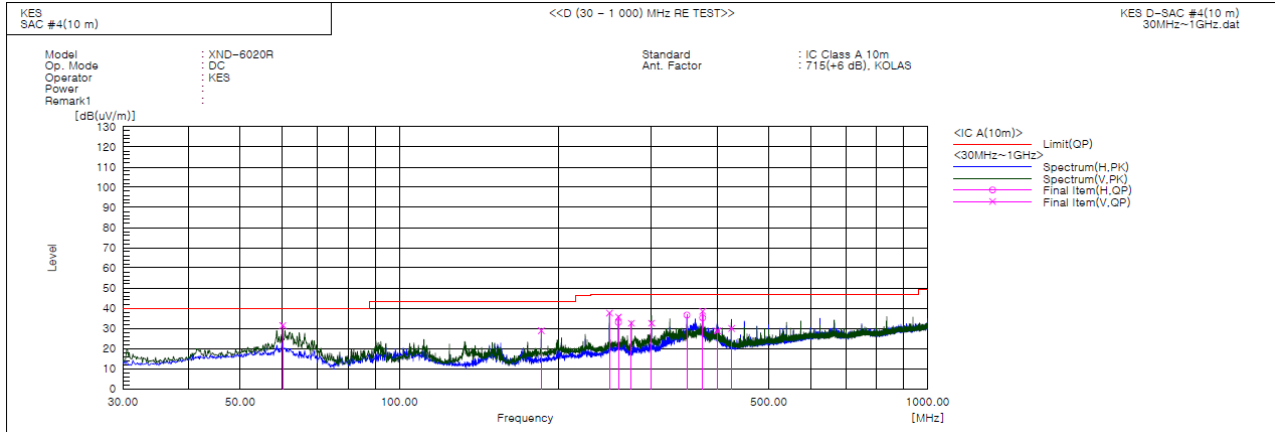
Report No.:

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- IC Regulation ICES-003 Issue 7

■ DC Mode



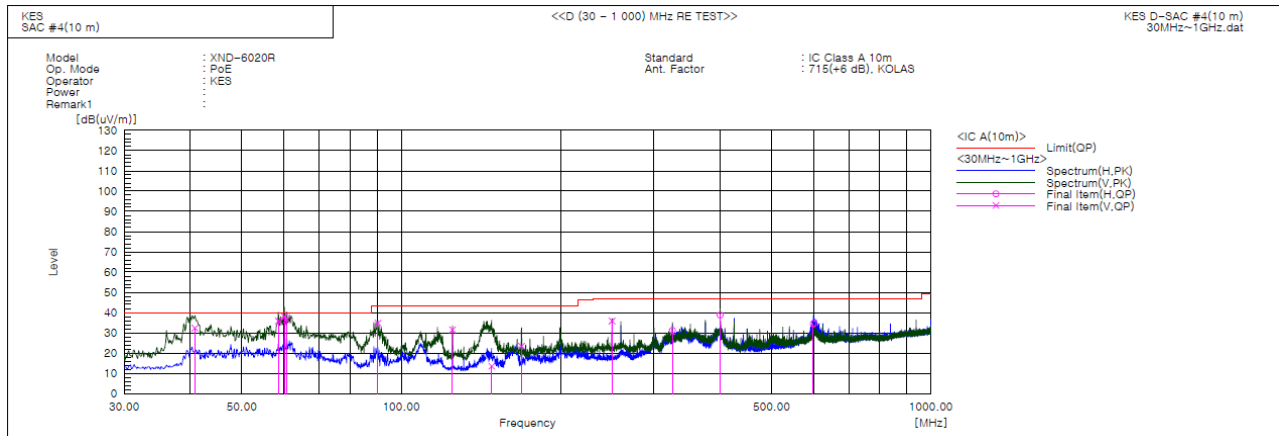
Final Result

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	60.191	V	53.4	-22.0	31.4	40.0	8.6	100.0	89.0	
2	185.564	V	51.5	-22.6	28.9	43.5	14.6	177.0	34.0	
3	249.948	V	56.7	-19.1	37.6	47.0	9.4	102.0	45.0	
4	259.890	V	54.6	-18.9	35.7	47.0	11.3	215.0	21.0	
5	259.895	H	51.8	-18.9	32.9	47.0	14.1	400.0	139.0	
6	274.925	V	51.1	-18.6	32.5	47.0	14.5	266.0	96.0	
7	300.024	V	50.4	-17.9	32.5	47.0	14.5	112.0	21.0	
8	349.979	H	51.9	-15.3	36.6	47.0	10.4	326.0	79.0	
9	374.956	V	53.2	-14.8	38.4	47.0	8.6	121.0	141.0	
10	374.961	H	50.0	-14.8	35.2	47.0	11.8	266.0	274.0	
11	399.934	V	43.0	-14.2	28.8	47.0	18.2	331.0	183.0	
12	425.033	V	43.7	-13.7	30.0	47.0	17.0	400.0	343.0	

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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	40.791	V	54.7	-22.3	32.4	40.0	7.6	101.0	326.0	
2	58.615	V	57.7	-21.8	35.9	40.0	4.1	162.0	283.0	
3	60.191	V	60.0	-22.0	38.0	40.0	2.0	100.0	100.0	
4	60.798	V	58.7	-22.2	36.5	40.0	3.5	119.0	69.0	
5	90.383	V	58.9	-24.1	34.8	43.5	8.7	146.0	117.0	
6	124.939	V	56.3	-24.8	31.5	43.5	12.0	100.0	122.0	
7	148.098	V	38.7	-25.2	13.5	43.5	30.0	100.0	311.0	
8	168.710	V	47.5	-24.1	23.4	43.5	20.1	251.0	102.0	
9	249.948	V	55.0	-19.1	35.9	47.0	11.1	400.0	2.0	
10	325.001	H	47.7	-16.4	31.3	47.0	15.7	400.0	279.0	
11	400.055	H	53.0	-14.2	38.8	47.0	8.2	251.0	251.0	
12	599.269	H	42.9	-8.4	34.5	47.0	12.5	198.0	288.0	

◆ Calculation – SAC #4(10 m)

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

Margin(QP)[dB] = Limit[dB(μV/m)] - Result(QP) [dB(μV/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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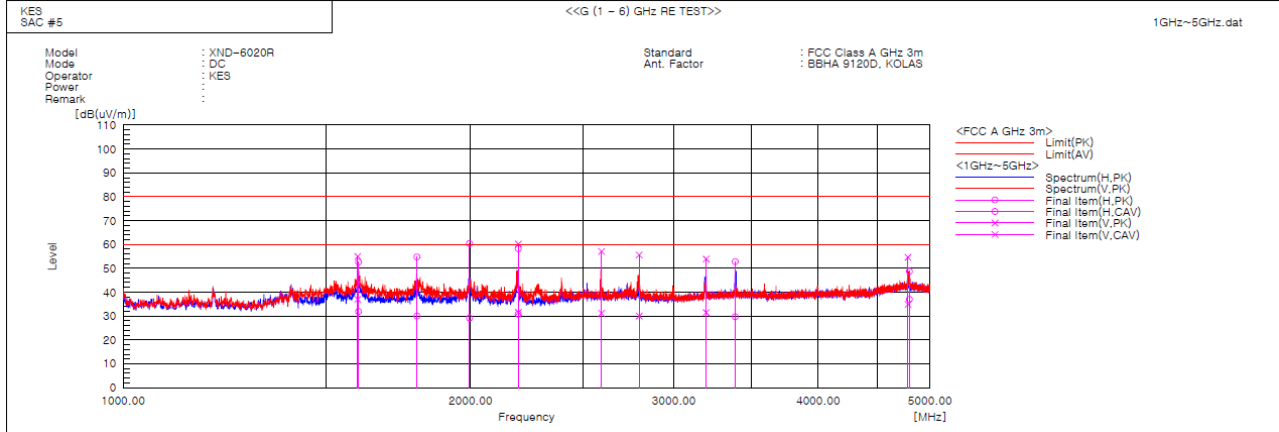
Report No.:

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Radiated Electric Field Emissions(Above 1 GHz)

■ DC Mode



Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB(1/m)]	Result PK [dB(uV/m)]	Result CAV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]	Remark
1	1596.250	V	59.9	41.9	-4.9	55.0	37.0	80.0	60.0	25.0	23.0	142.0	58.6	
2	1599.375	H	57.5	36.8	-4.9	52.6	31.9	80.0	60.0	27.4	28.1	112.0	142.0	
3	1796.875	H	58.9	34.1	-4.1	54.8	30.0	80.0	60.0	25.2	30.0	316.0	219.2	
4	1995.000	H	63.8	32.6	-3.4	60.4	29.2	80.0	60.0	19.6	30.8	241.0	111.4	
5	2199.375	V	63.0	34.4	-2.8	60.2	31.6	80.0	60.0	19.8	28.4	134.0	97.1	
6	2199.375	H	61.0	33.6	-2.8	58.2	30.8	80.0	60.0	21.8	29.2	167.0	70.1	
7	2595.625	V	58.3	32.4	-1.2	57.1	31.2	80.0	60.0	22.9	28.8	355.0	151.5	
8	2798.750	V	55.9	30.3	-0.3	55.6	30.0	80.0	60.0	24.4	30.0	400.0	151.6	
9	3198.750	V	53.2	30.8	0.7	53.9	31.5	80.0	60.0	26.1	28.5	302.0	24.3	
10	3390.000	H	52.1	29.0	0.7	52.8	29.7	80.0	60.0	27.2	30.3	242.0	66.9	
11	4784.375	V	49.4	29.7	5.2	54.6	34.9	80.0	60.0	25.4	25.1	105.0	204.2	
12	4799.375	H	43.4	31.7	5.3	48.7	37.0	80.0	60.0	31.3	23.0	374.0	20.3	

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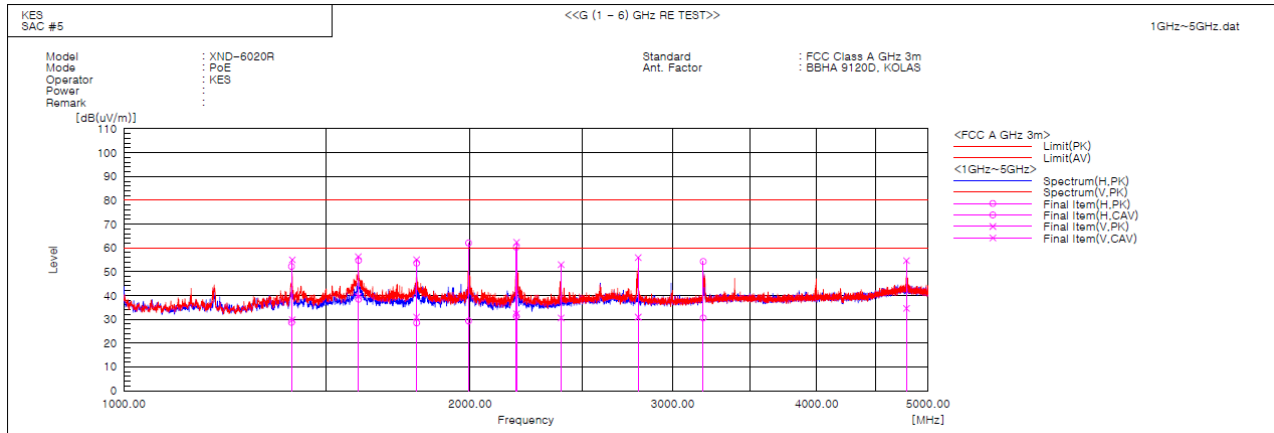
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Report No.:

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PoE Mode



Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(μV)]	Reading CAV [dB(μV)]	c.f [dB(1/m)]	Result PK [dB(μV/m)]	Result CAV [dB(μV/m)]	Limit PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]	Remark
1	1398.750	H	58.0	34.5	-5.8	52.2	28.7	80.0	60.0	27.8	31.3	341.0	239.9	
2	1400.625	V	60.8	35.7	-5.8	55.0	29.9	80.0	60.0	25.0	30.1	201.0	3.7	
3	1598.750	V	61.2	44.5	-4.9	56.3	39.6	80.0	60.0	23.7	20.4	231.0	27.6	
4	1600.000	H	59.7	43.3	-4.9	54.8	38.4	80.0	60.0	25.2	21.6	100.0	271.7	
5	1796.250	V	59.2	35.1	-4.1	55.1	31.0	80.0	60.0	24.9	29.0	108.0	247.4	
6	1796.875	H	57.7	32.6	-4.1	53.6	28.5	80.0	60.0	26.4	31.5	164.0	211.2	
7	1993.750	H	65.5	32.7	-3.4	62.1	29.3	80.0	60.0	17.9	30.7	223.0	110.3	
8	2193.125	H	63.1	34.1	-2.8	60.3	31.3	80.0	60.0	19.7	28.7	400.0	60.1	
9	2194.375	V	65.2	35.2	-2.8	62.4	32.4	80.0	60.0	17.6	27.6	374.0	88.4	
10	2398.750	V	55.1	32.7	-2.1	53.0	30.6	80.0	60.0	27.0	29.4	226.0	164.7	
11	2799.375	V	56.2	31.3	-0.3	55.9	31.0	80.0	60.0	24.1	29.0	237.0	152.5	
12	3188.750	H	53.6	29.9	0.7	54.3	30.6	80.0	60.0	25.7	29.4	388.0	86.3	
13	4788.125	V	49.5	29.4	5.2	54.7	34.6	80.0	60.0	25.3	25.4	400.0	204.5	

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

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Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports

■ DC Mode



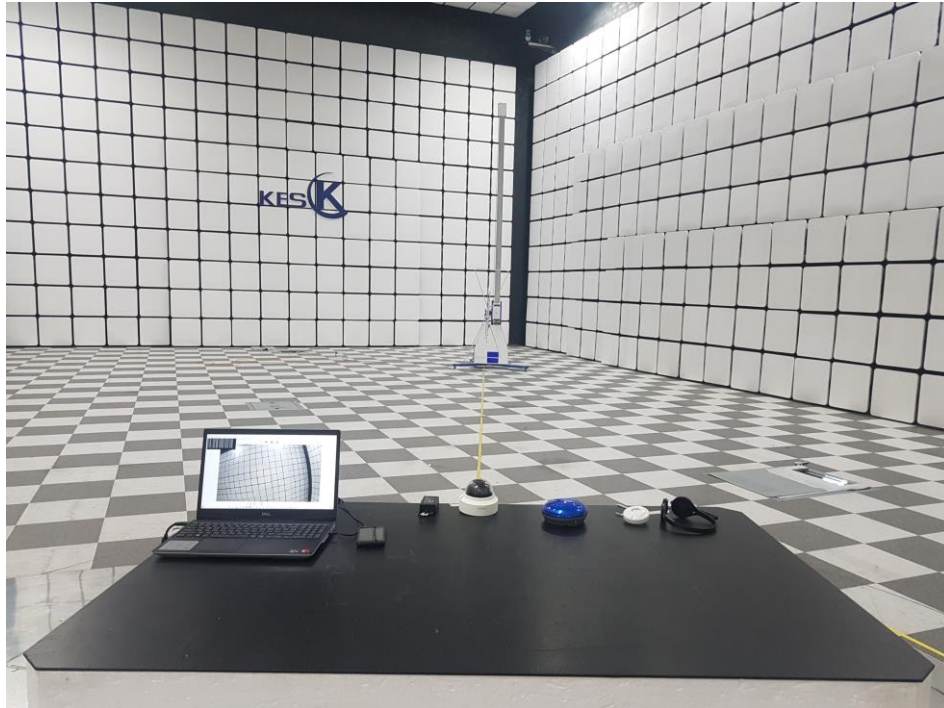
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■ PoE Mode



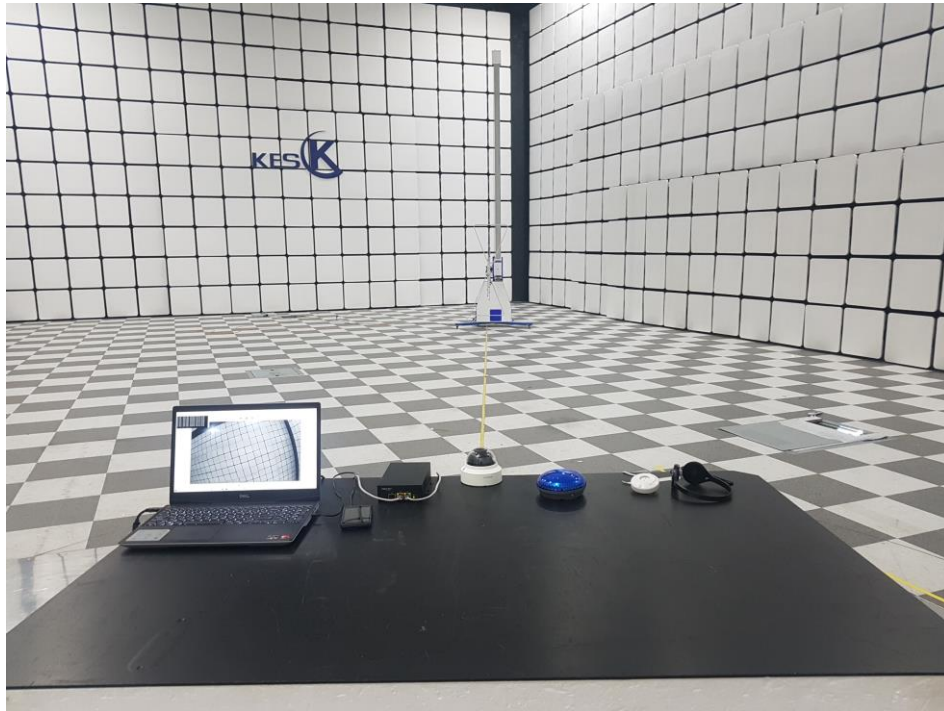
Radiated Electric Field Emissions(Below 1 GHz)

■ DC Mode



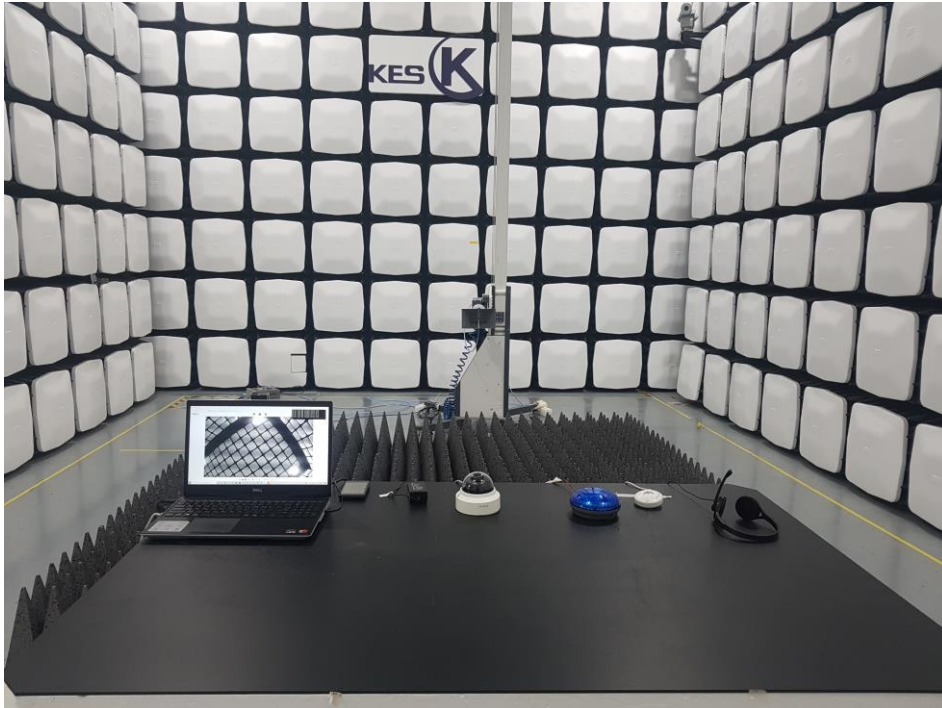
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■ PoE Mode



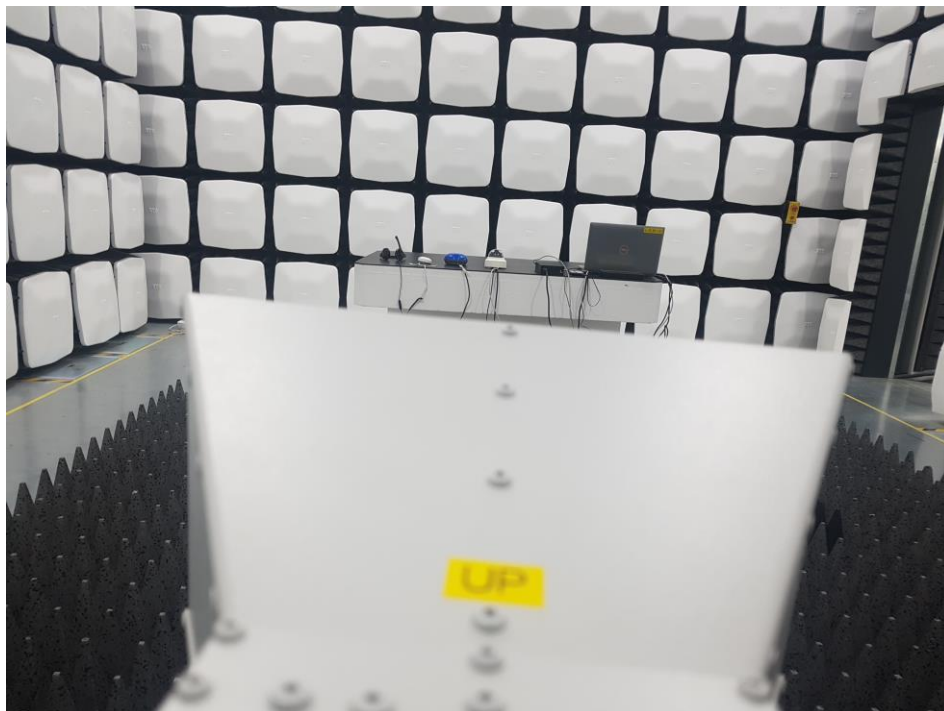
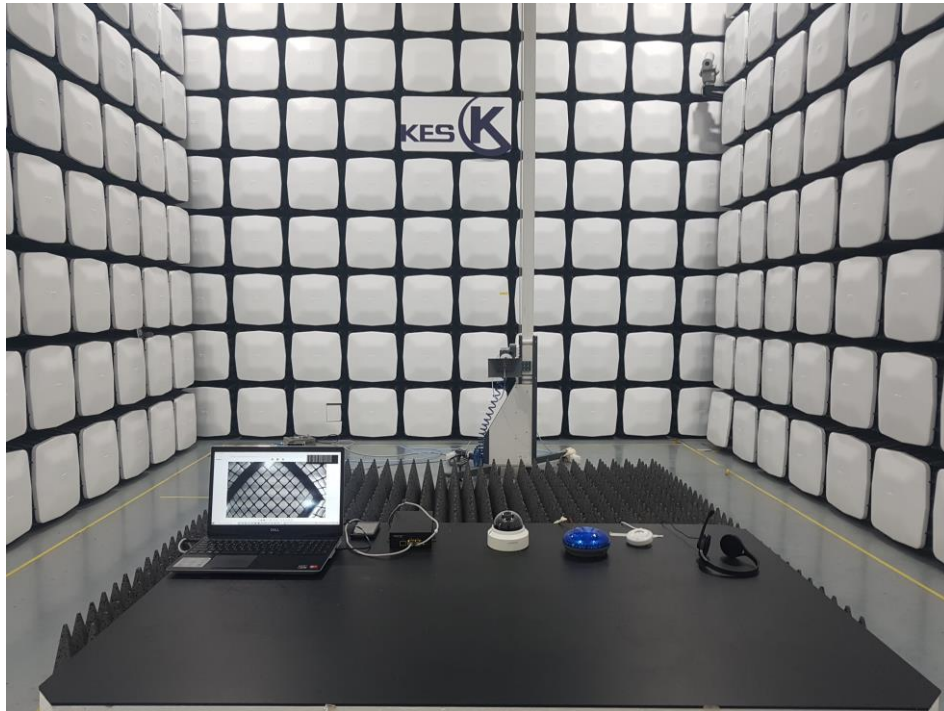
Radiated Electric Field Emissions(Above 1 GHz)

■ DC Mode



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■ PoE Mode



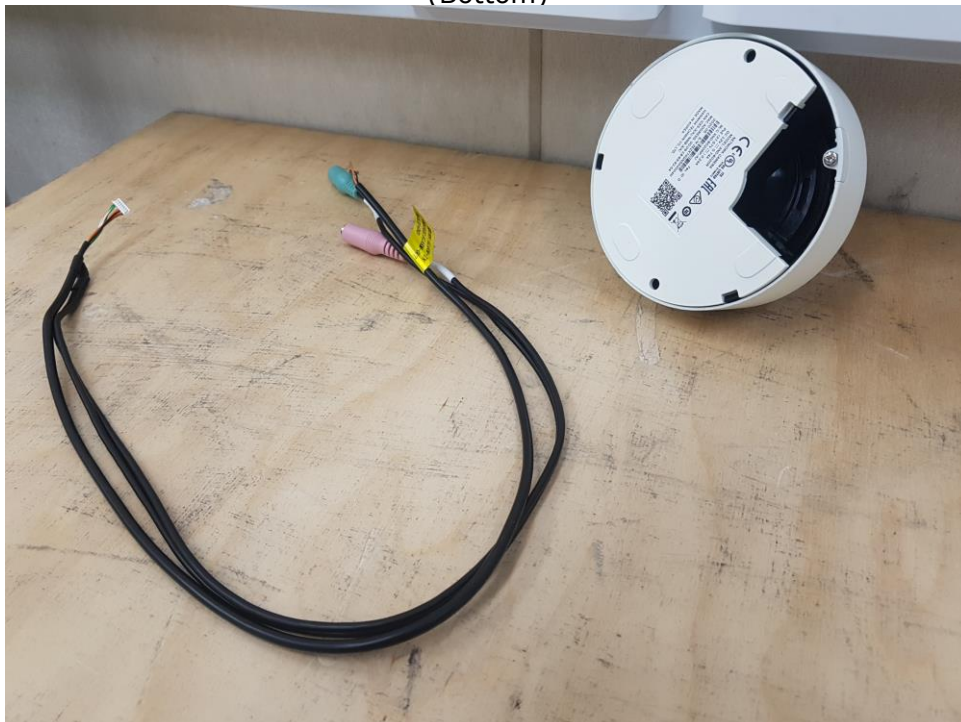
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EUT External Photographs

(Top)



(Bottom)



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EUT Internal Photographs

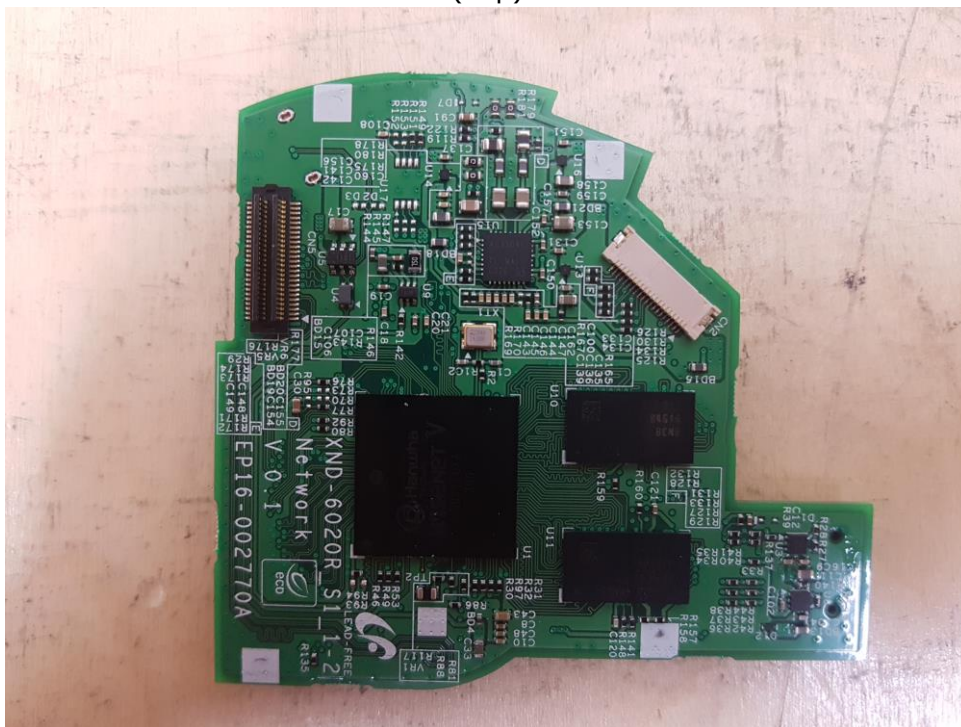
(Internal View)



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EUT Internal View – Board 1

(Top)



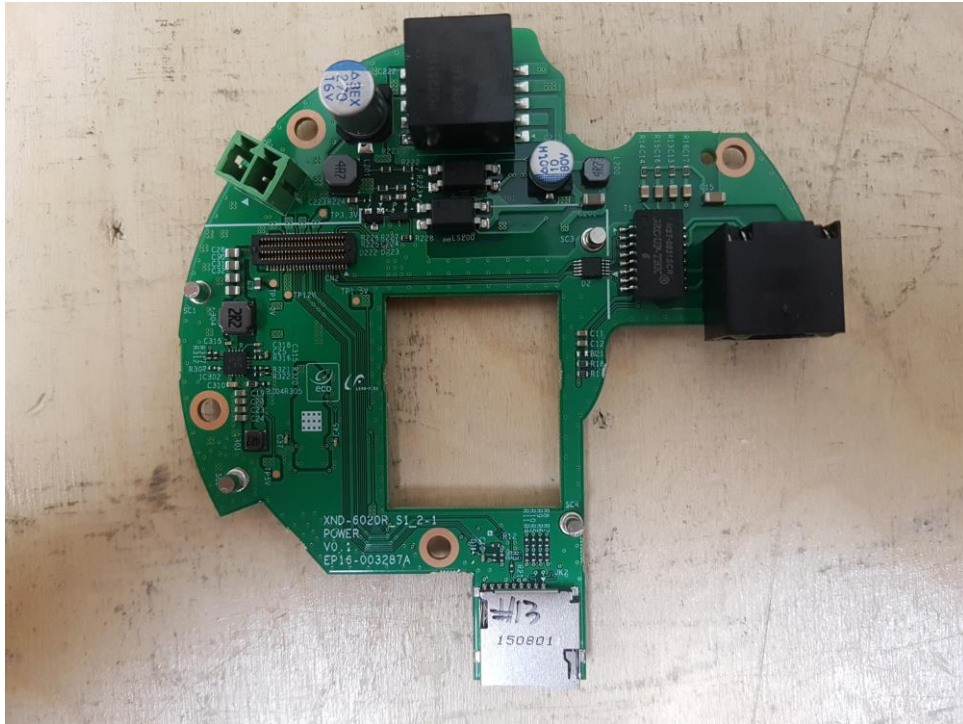
(Bottom)



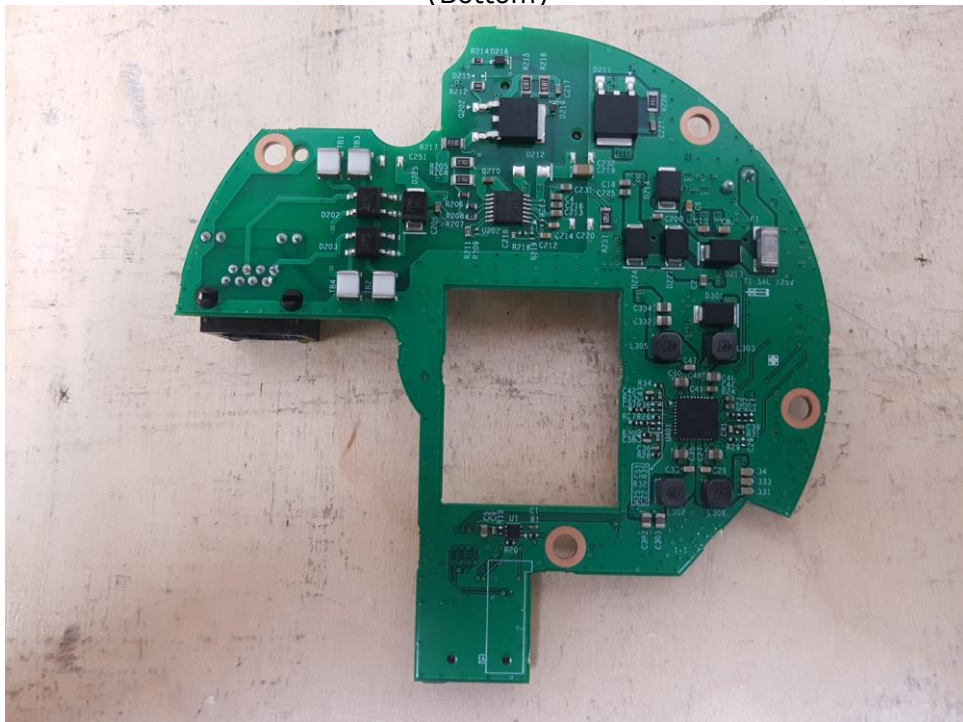
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EUT Internal View – Board 2

(Top)



(Bottom)



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EUT Internal View – Board 3

(Top)



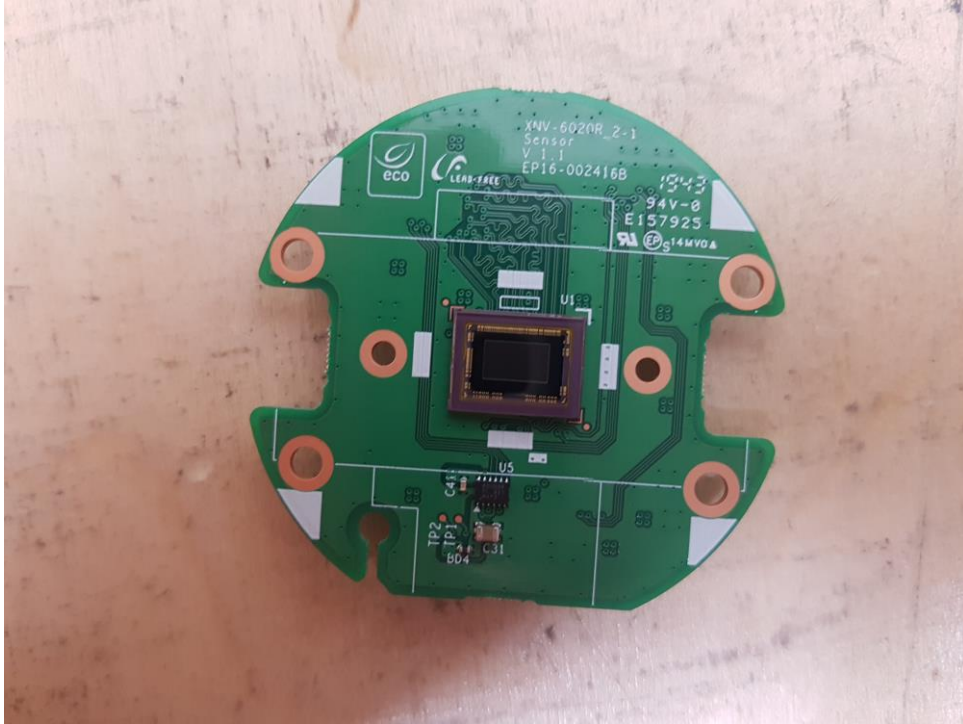
(Bottom)



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EUT Internal View – Board 4

(Top)



(Bottom)



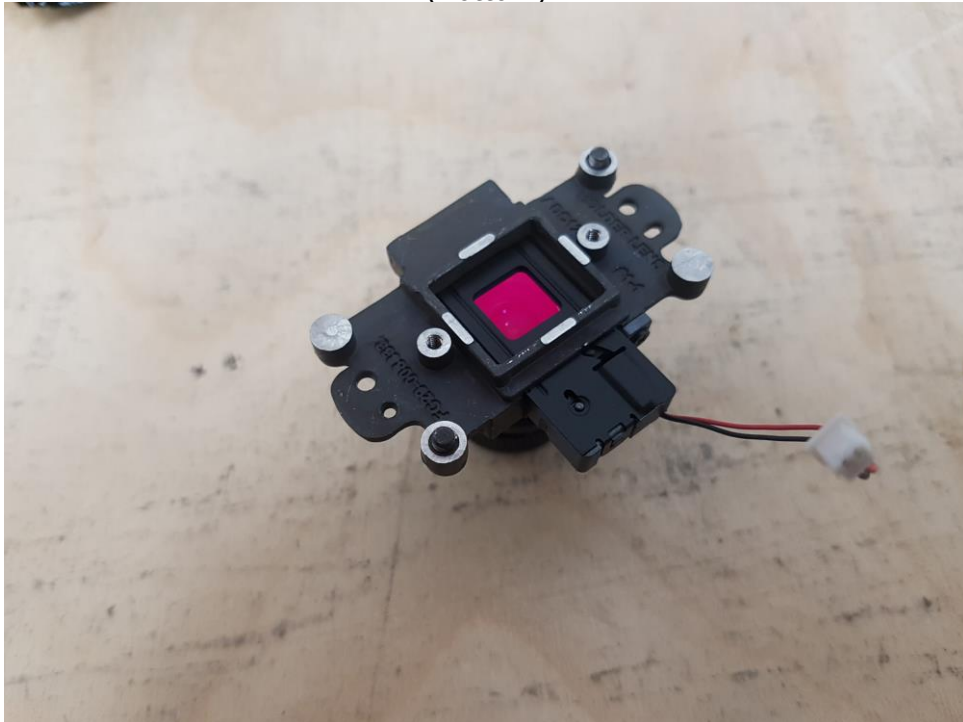
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EUT Internal View – Lens

(Top)



(Bottom)



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Label Photographs



CAN ICES-3(A) / NMB-3(A)

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

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.