

**KES Co., Ltd.**

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Report No.:

KES-EM-23T0406

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EMC TEST REPORT

Test Report No. : KES-EM-23T0406

Date of Issue : May. 16, 2023

Product name : Network Camera

Model/Type No. : PNM-C32083RVQ

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 : Mar. 22, 2023

Test date : May. 03, 2023

Test Results : ☒ **In Compliance** ☐ **Not in Compliance**

Tested by

Seong Min, Jang
EMC Test Engineer

Reviewed by

Hyo Jin, Kim
EMC Technical Manager

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
May. 16, 2023	KES-EM-23T0406	Issued

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1.0 General Product Description

Main Specifications of EUT are:

Video	
Imaging Device	1/2.8" 4k CMOS x 4CH (Must have independent configuration)
Resolution	3840x2160, 3328x1872, 3072x1728, 2592x1944, 2688x1520, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Frame rate	H.265/H.264: 8MP Max. 20fps/20fps(60Hz/50Hz) MPEG: Max. 20fps/20fps(60Hz/50Hz)
Min. Illumination	Color: 0.1Lux (F1.5, 1/30sec) B/W: 0.1Lux (F1.5)
Video Out	USB: micro USB Type B, 1280x720 for installation
Lens	
Focal Length (Zoom Ratio)	3.3~5.7mm motorized varifocal
Max. Aperture Ratio	F1.5(Wide) ~ F1.9(Tele)
Angular Field of View	H: 108.3(Wide)~56.4(Tele) V: 54.7(Wide)~31.2(Tele) D: 135.5(Wide)~65.2(Tele)
Min. Object Distance	Wide : 1.3m ; Tele : 3.3m
Focus Control	Simple focus
Pan / Tilt / Rotate Range	0~360°/ 0~73°/0~90°
Lens Type	Fixed lens
Operational	
Camera Title	Displayed up to 85 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, WDR, SSOR
Wide Dynamic Range	120dB
Digital Noise Reduction	SSNR V, WiseNR II (using AI engine)
Digital Image Stabilization	None
Defog	Support
Motion Detection	8ea, 8point polygonal zones
Privacy Masking	6ea polygonal zones - Color: Grey/Black/White
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). Auto prefer shutter control(Based on AI engine)
Video Rotation	Flip, Mirror, Halfway view(90/270) - Each channel separately
Analytics	- Analytics events based on AI engine: Object detection (Person/Vehicle (car/truck/bus/bicycle/bike)), IVA (Virtual line/Area, Enter/Exit, Loitering, direction, intrusion), Appear/Disappear, (Bestshot/Goodshot without attributes) - Analytics events : Defocus detection, Motion detection, Tampering, Audio detection, Sound classification
Alarm I/O	2 configurable I/O ports, + I/O Box compatibility
Alarm Triggers	Analytics, Network disconnect, Alarm input
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
Audio In	Selectable (microphone in/line in) Supply voltage: 2.5VDC(4mA) input impedance: 2K Ohm
Audio Out	Line out, Maximum output level: 1Vrms
IR Viewable Length	Wise IR 20m
Network	
Ethernet	Metal shielded RJ-45(10/100/1000BASE-T)
Video Compression	H.265/H.264: Main/Baseline/High, MPEG
Smart Codec	Manual(Sea area), WiseStreamII, WiseStreamIII(Based on AI engine)
Bitrate Control	H.264/H.265: CBR or VBR MPEG: VBR
Streaming	(5 Profiles/channel) Unicast(10 users) / Multicast (TBD)
Protocol	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SFTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP, SRTP
Security	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(Kanwha Techwin Root CA, pre-installed) Secure by default certificate Secure OS/Boot/Storage, Verify firmware forgery, TPM with FIPS 140-2 level2
Application Programming Interface	ONVIF Profile S/T ONVIF Profile M SUNAPI(HTTP API)
General	
Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
Edge Storage	Micro SD/SDHC/SDXC 2 slots x 512GB
Open platform	Open platform Application that has access to 4 channels
Environmental & Electrical	
Operating Temperature / Humidity	-40°C~+55°C(-40°F~+131°F) / Less than 90% RH *Start up should be above at -35°C
Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / Less than 90% RH
Certification	IP66, IK10, NEMA4X
Input Voltage	PoE+
Power Consumption	Max : 25.5W
Mechanical	
Color / Material	White / Aluminum Hard-coated dome bubble
RAL Code	RAL9003
Product dimensions / weight	250mm x 114.2mm, weight: 2.8kg
Gangbox compatibility	Single, Double, 4" Square, 4" Octagon

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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-C32083RVQ	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
Micro SD Card 1	-	-	SanDisk	-
Micro SD Card 2	-	-	SanDisk	-
Laptop	Inspiron 15-7577	-	DELL	-
Laptop Adapter	LA130PM121	-	DELL	-
PoE Injector	PT-PSE109GBRO-AH-S	-	Dongguan PROCET Network Technology Co., Ltd	-
Headset	K550	-	Britz®	-
Cell Phone	SM-A305N	R59M503KX0M	SAMSUNG	-
LED Alarm	PRO-SL	-	SENSOR PRO	-
Button Alarm	-	-	-	-

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 Slot	Micro SD Card 1	Micro SD Slot	-	-
	Micro SD Slot	Micro SD Card 2	Micro SD Slot	-	-
	RJ-45	PoE Injector	RJ-45	4.0	S
	Mic	Headset	3.5 mm	2.5	U
	Speaker		3.5 mm	2.5	U
	Alarm Out	LED Alarm	Alarm Out	3.1	U
	Alarm In	Button Alarm	Alarm In	3.1	U
PoE Injector	RJ-45	Laptop	RJ-45	1.0	U
Laptop	DC jack	Laptop Adapter	DC jack	1.5	U
	3.5 mm	Cell Phone	3.5 mm	0.1	U

* Unshielded = U, Shielded = S

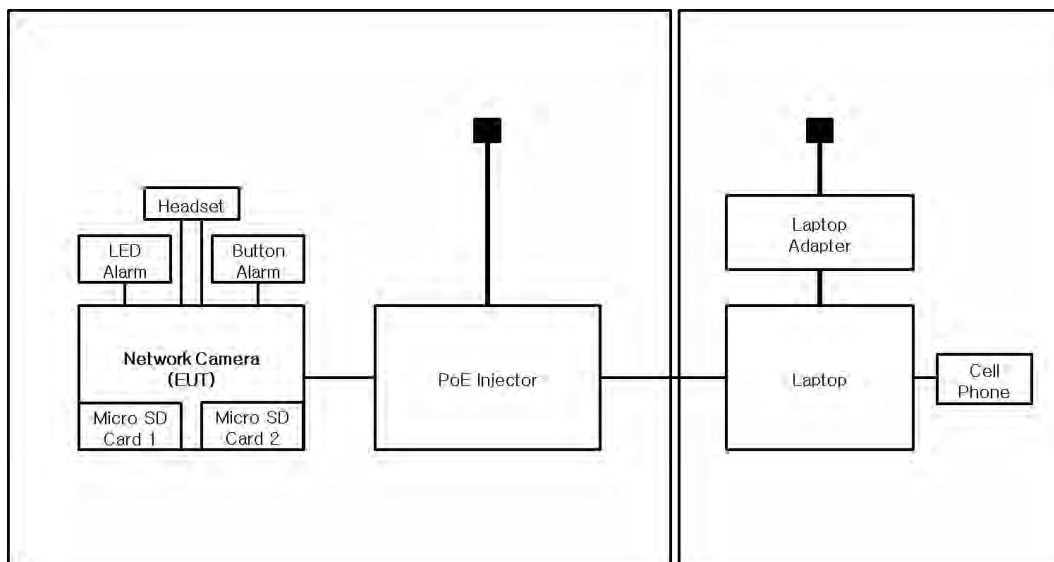
1.7 EUT Operating Mode(s)

Test mode	operating
Operation	1. Check if the EUT image is output to the laptop normally. 2. Check if the network is operating normally through a ping test. 3. After the test, check if the EUT video has been recorded normally.

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

1.8 Configuration

■ AC Main
 □ DC Main



1.9 Remarks when standards applied

- The Micro 5 Pin port was excluded from the test because it was for administrators.
- The PoE mode of this test equipment receives PoE power, and the PoE port is considered a wired network port, so the test items related to the power port are not applicable.

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

May. 03, 2023

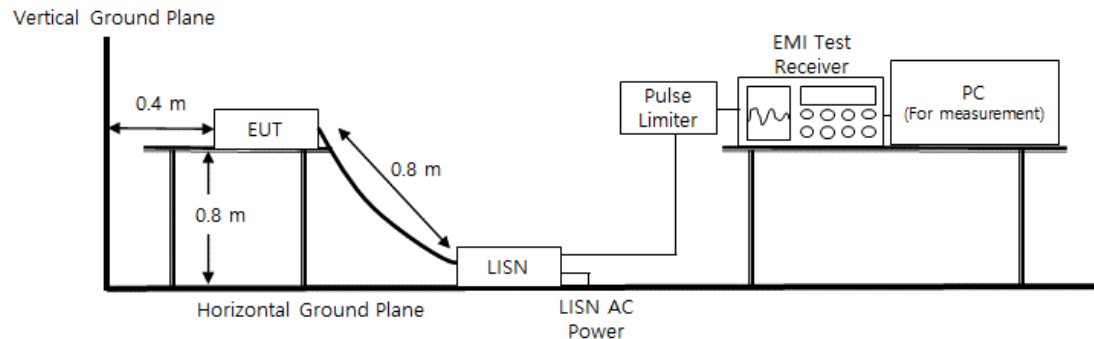
Test Location

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, 11, 2023
☒	LISN	ENV216	R & S	101787	11, 10, 2023
☒	LISN	ESH2-Z5	R & S	100450	11, 10, 2023
☒	PULSE LIMITER	ESH3-Z2	R & S	101915	11, 10, 2023

Diagram of test setup





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Test Conditions

Temperature: $(23,1 \pm 0,2) ^\circ\text{C}$
Relative Humidity: $(43,5 \pm 0,1) \% \text{ R.H.}$

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

May. 03, 2023

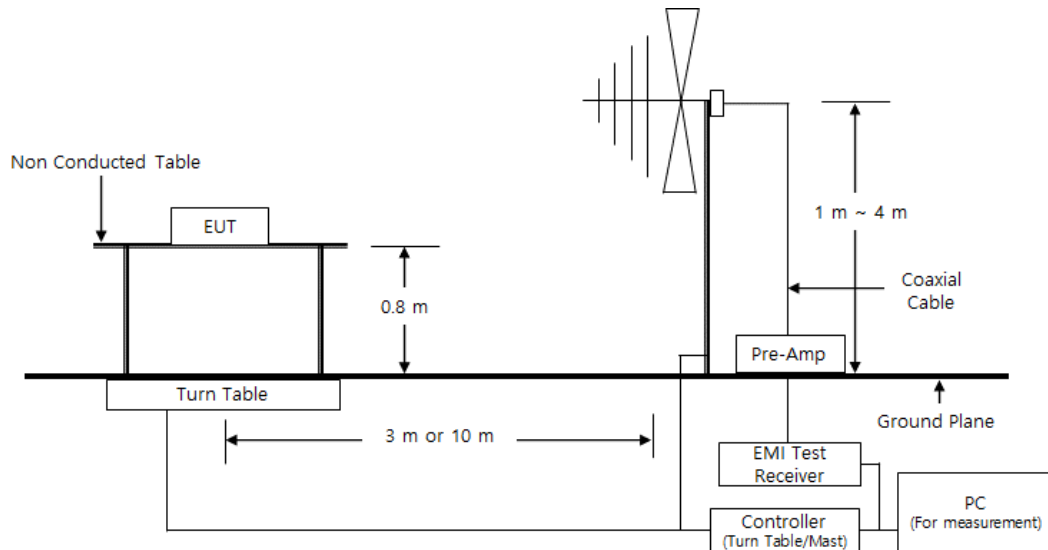
Test Location

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

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, 21, 2024
☒	AMPLIFIER	SCU 01	R & S	100603	11, 10, 2023
☒	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	11, 17, 2024
☒	ATTENUATOR	8491A	HP	32173	03, 03, 2024

Diagram of test setup





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Test Conditions

Temperature: $(23,2 \pm 0,2) ^\circ\text{C}$
Relative Humidity: $(42,4 \pm 0,2) \% \text{ R.H.}$

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.

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2.3 Radiated Electric Field Emissions(Above 1 GHz)

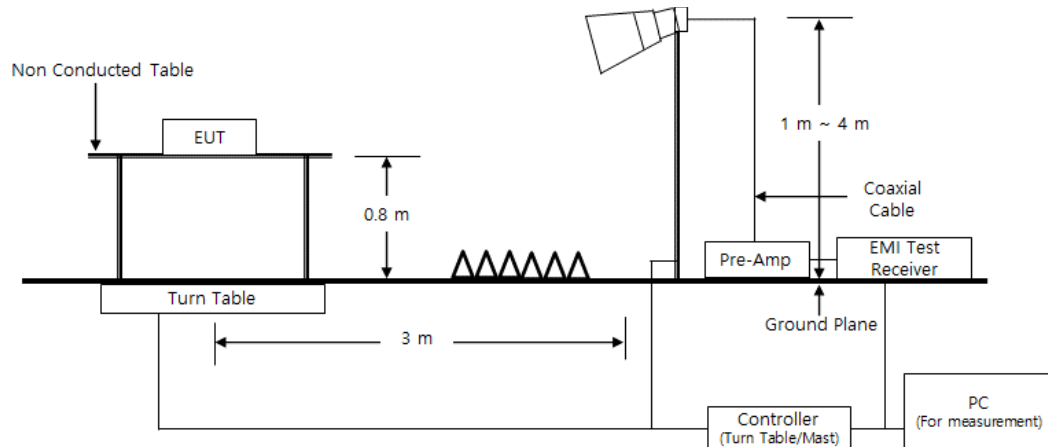
Test Date
 May. 03, 2023

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, 21, 2024
☒	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	11, 08, 2023
☒	PREAMPLIFIER	8449B	HP	3008A00538	06, 02, 2023
☒	ATTENUATOR	8491B	HP	23094	03, 21, 2024

Diagram of test setup



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Test Conditions

Temperature: (23,4 $\pm$ 0,2) °C
Relative Humidity: (43,0 $\pm$ 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.
- The Average of the test data is the cispr average result.

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APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

HOT LINE

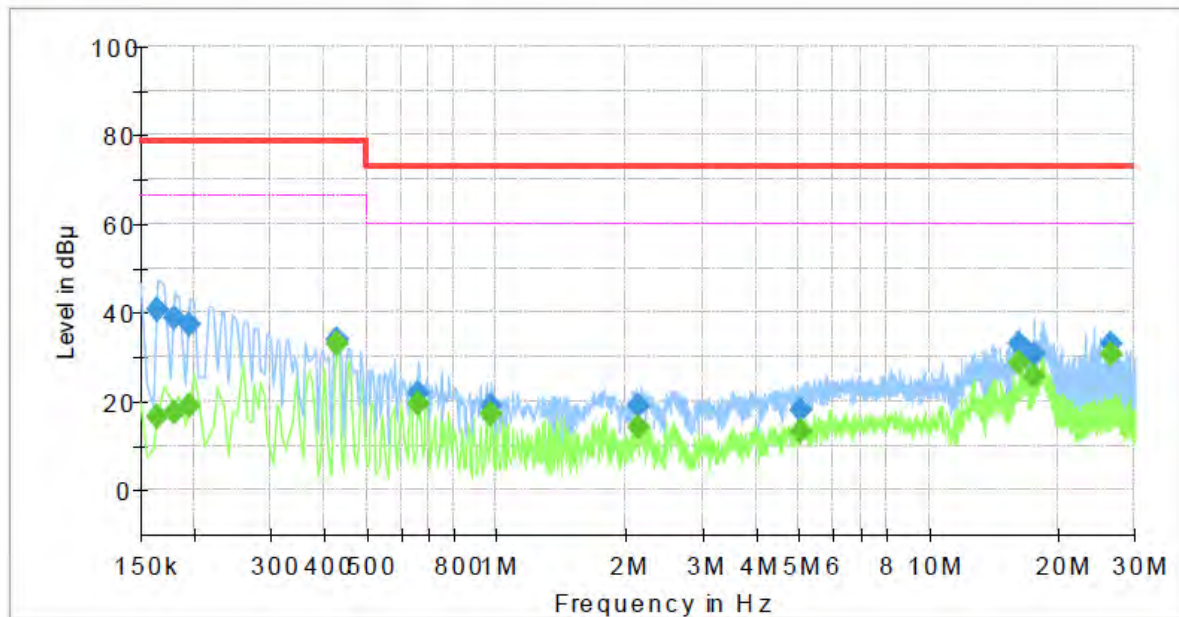
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Test Report

Common Information

Test Description:	Conducted Emission
Model No.:	PNM-C32083RVQ
Phase:	L1
Mode:	PNM-C32083RVQ
Operator Name:	KES



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Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.165000	40.69	---	79.00	38.31	1000.0	9.000	L1	19.5
0.165000	---	16.72	66.00	49.28	1000.0	9.000	L1	19.5
0.180000	38.90	---	79.00	40.10	1000.0	9.000	L1	19.5
0.180000	---	17.57	66.00	48.43	1000.0	9.000	L1	19.5
0.195000	37.26	---	79.00	41.74	1000.0	9.000	L1	19.5
0.195000	---	18.71	66.00	47.29	1000.0	9.000	L1	19.5
0.430000	---	32.88	66.00	33.12	1000.0	9.000	L1	19.7
0.430000	33.87	---	79.00	45.13	1000.0	9.000	L1	19.7
0.660000	---	19.25	60.00	40.75	1000.0	9.000	L1	19.9
0.660000	22.06	---	73.00	50.94	1000.0	9.000	L1	19.9
0.975000	---	17.01	60.00	42.99	1000.0	9.000	L1	20.1
0.975000	18.72	---	73.00	54.28	1000.0	9.000	L1	20.1
2.145000	19.17	---	73.00	53.83	1000.0	9.000	L1	20.3
2.145000	---	14.21	60.00	45.79	1000.0	9.000	L1	20.3
5.070000	17.98	---	73.00	55.02	1000.0	9.000	L1	19.7
5.070000	---	13.16	60.00	46.84	1000.0	9.000	L1	19.7
16.165000	32.98	---	73.00	40.02	1000.0	9.000	L1	19.9
16.165000	---	28.55	60.00	31.45	1000.0	9.000	L1	19.9
17.570000	30.33	---	73.00	42.67	1000.0	9.000	L1	20.0
17.570000	---	25.51	60.00	34.49	1000.0	9.000	L1	20.0
26.610000	---	30.30	60.00	29.70	1000.0	9.000	L1	20.4
26.610000	33.03	---	73.00	39.97	1000.0	9.000	L1	20.4

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NEUTRAL LINE

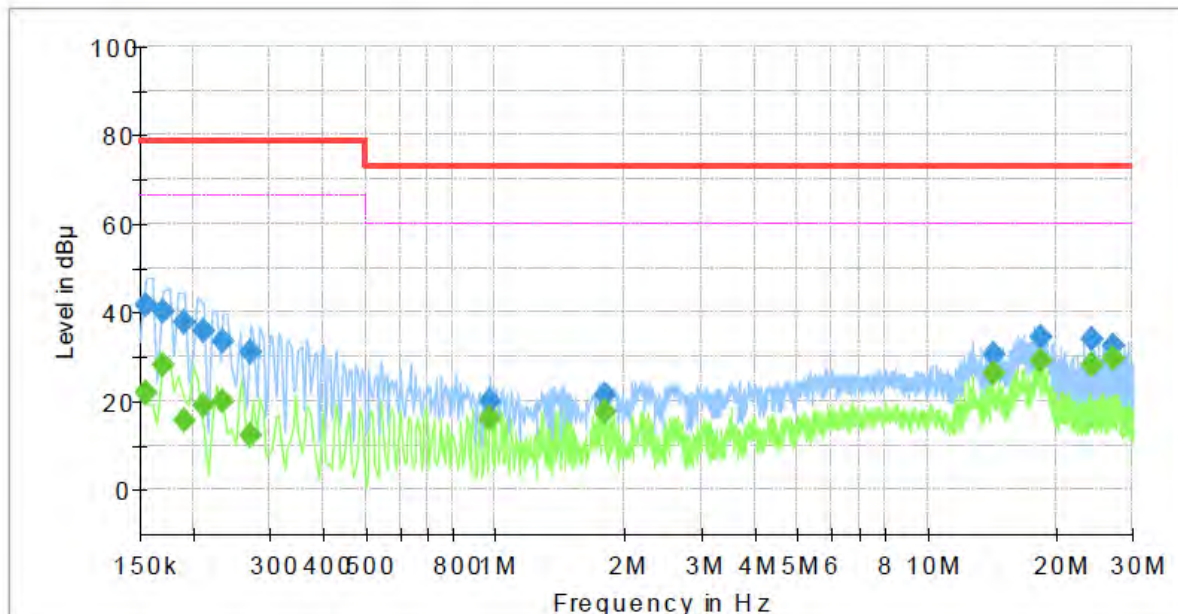
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Test Report

Common Information

Test Description:	Conducted Emission
Model No.:	PNM-C32083RVQ
Phase:	N
Mode:	PNM-C32083RVQ
Operator Name:	KES



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Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.155000	41.65	---	79.00	37.35	1000.0	9.000	N	19.4
0.155000	---	22.07	66.00	43.93	1000.0	9.000	N	19.4
0.170000	40.19	---	79.00	38.81	1000.0	9.000	N	19.5
0.170000	---	28.01	66.00	37.99	1000.0	9.000	N	19.5
0.190000	37.82	---	79.00	41.18	1000.0	9.000	N	19.5
0.190000	---	15.50	66.00	50.50	1000.0	9.000	N	19.5
0.210000	35.88	---	79.00	43.12	1000.0	9.000	N	19.5
0.210000	---	18.78	66.00	47.22	1000.0	9.000	N	19.5
0.235000	33.50	---	79.00	45.50	1000.0	9.000	N	19.5
0.235000	---	20.08	66.00	45.92	1000.0	9.000	N	19.5
0.270000	30.79	---	79.00	48.21	1000.0	9.000	N	19.5
0.270000	---	11.99	66.00	54.01	1000.0	9.000	N	19.5
0.970000	---	16.28	60.00	43.72	1000.0	9.000	N	20.1
0.970000	20.03	---	73.00	52.97	1000.0	9.000	N	20.1
1.800000	---	17.74	60.00	42.26	1000.0	9.000	N	20.3
1.800000	21.46	---	73.00	51.54	1000.0	9.000	N	20.3
14.335000	---	26.05	60.00	33.95	1000.0	9.000	N	19.9
14.335000	30.55	---	73.00	42.45	1000.0	9.000	N	19.9
18.305000	---	29.31	60.00	30.69	1000.0	9.000	N	20.1
18.305000	34.19	---	73.00	38.81	1000.0	9.000	N	20.1
24.045000	---	28.19	60.00	31.81	1000.0	9.000	N	20.4
24.045000	33.92	---	73.00	39.08	1000.0	9.000	N	20.4
27.160000	---	29.55	60.00	30.45	1000.0	9.000	N	20.4
27.160000	32.63	---	73.00	40.37	1000.0	9.000	N	20.4

◆ Calculation

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

QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

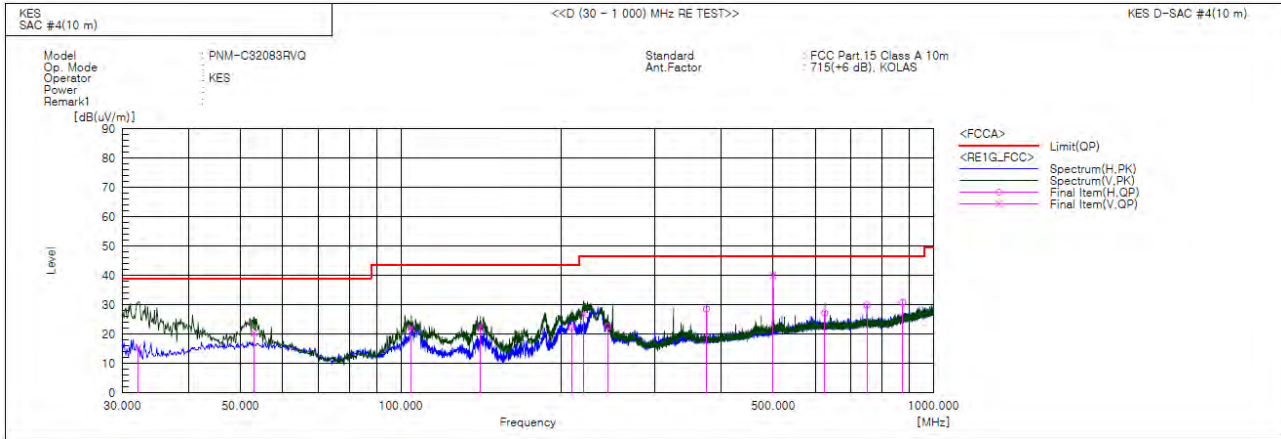
Corr. : Correction values (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

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Radiated Electric Field Emissions(Below 1 GHz)

- 47 CFR Part 15, Subpart B

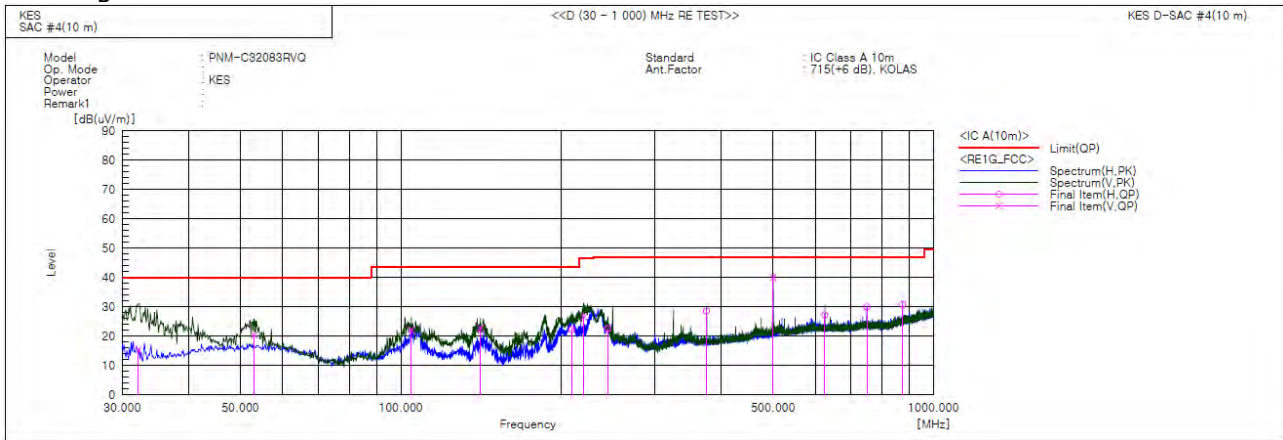


Final Result

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	32.183	V	40.2	-24.8	15.4	39.0	23.6	110.0	229.0	
2	53.038	V	41.1	-20.7	20.4	39.0	18.6	108.0	55.0	
3	104.690	V	44.6	-22.5	22.1	43.5	21.4	111.0	86.0	
4	141.186	V	48.2	-25.4	22.8	43.5	20.7	109.0	353.0	
5	209.329	H	42.8	-20.5	22.3	43.5	21.2	389.0	193.0	
6	220.605	V	46.6	-19.9	26.7	46.5	19.8	133.0	37.0	
7	244.734	H	41.9	-19.3	22.6	46.5	23.9	400.0	242.0	
8	374.956	H	43.0	-14.4	28.6	46.5	17.9	385.0	113.0	
9	499.965	V	51.1	-11.1	40.0	46.5	6.5	105.0	184.0	
10	625.095	H	35.2	-8.0	27.2	46.5	19.3	400.0	220.0	
11	749.983	H	36.6	-6.7	29.9	46.5	16.6	379.0	18.0	
12	875.113	H	35.9	-5.1	30.8	46.5	15.7	380.0	53.0	

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- 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	32.183	V	40.2	-24.8	15.4	40.0	24.6	110.0	229.0	
2	53.038	V	41.1	-20.7	20.4	40.0	19.6	108.0	55.0	
3	104.690	V	44.6	-22.5	22.1	43.5	21.4	111.0	86.0	
4	141.186	V	48.2	-25.4	22.8	43.5	20.7	109.0	353.0	
5	209.329	H	42.8	-20.5	22.3	43.5	21.2	389.0	193.0	
6	220.605	V	46.6	-19.9	26.7	46.4	19.7	133.0	37.0	
7	244.734	H	41.9	-19.3	22.6	47.0	24.4	400.0	242.0	
8	374.956	H	43.0	-14.4	28.6	47.0	18.4	385.0	113.0	
9	499.965	V	51.1	-11.1	40.0	47.0	7.0	105.0	184.0	
10	625.095	H	35.2	-8.0	27.2	47.0	19.8	400.0	220.0	
11	749.983	H	36.6	-6.7	29.9	47.0	17.1	379.0	18.0	
12	875.113	H	35.9	-5.1	30.8	47.0	16.2	380.0	53.0	

◆ Calculation - SAC #4(10 m)

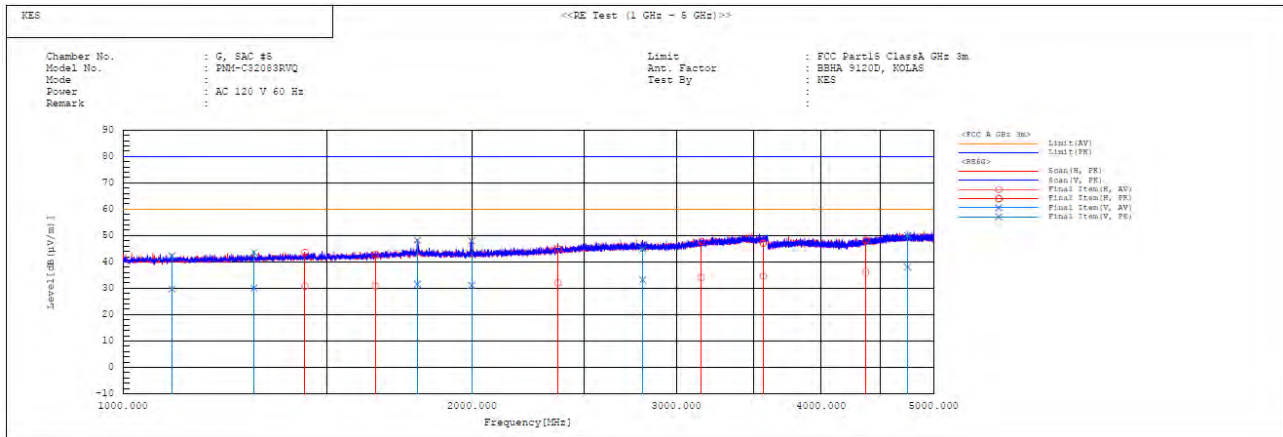
Result(QP) [dB(μV/m)] = (Reading(QP)[dB(μV)] + c.f[dB(1/m)])

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

Radiated Electric Field Emissions(Above 1 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	1102.316	V	31.4	44.0	-1.7	29.7	42.3	60.0	80.0	30.3	37.7	104.0	172.6	
2	1297.481	V	30.6	44.1	-0.5	30.1	43.6	60.0	80.0	29.9	36.4	105.0	179.9	
3	1435.482	H	30.5	43.4	0.2	30.7	43.6	60.0	80.0	29.3	36.4	110.0	359.1	
4	1650.817	H	30.2	42.2	0.7	30.9	42.9	60.0	80.0	29.1	37.1	133.0	92.6	
5	1794.412	V	29.8	46.5	1.7	31.5	48.2	60.0	80.0	28.5	31.8	149.8	102.9	
6	1998.659	V	29.1	45.9	2.0	31.1	47.9	60.0	80.0	28.9	32.1	183.0	103.1	
7	2372.598	H	29.0	41.8	3.1	32.1	44.9	60.0	80.0	27.9	35.1	388.0	245.0	
8	2807.387	V	28.4	40.0	4.8	33.2	44.8	60.0	80.0	26.8	35.2	381.0	294.8	
9	3153.742	H	28.3	42.0	5.8	34.1	47.8	60.0	80.0	25.9	32.2	205.0	344.2	
10	3566.124	H	28.7	41.2	5.9	34.6	47.1	60.0	80.0	25.4	32.9	388.0	359.4	
11	4370.846	H	27.7	39.7	8.5	36.2	48.2	60.0	80.0	23.8	31.8	211.0	249.5	
12	4750.483	V	28.1	40.1	9.9	38.0	50.0	60.0	80.0	22.0	30.0	115.0	61.0	

◆ 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

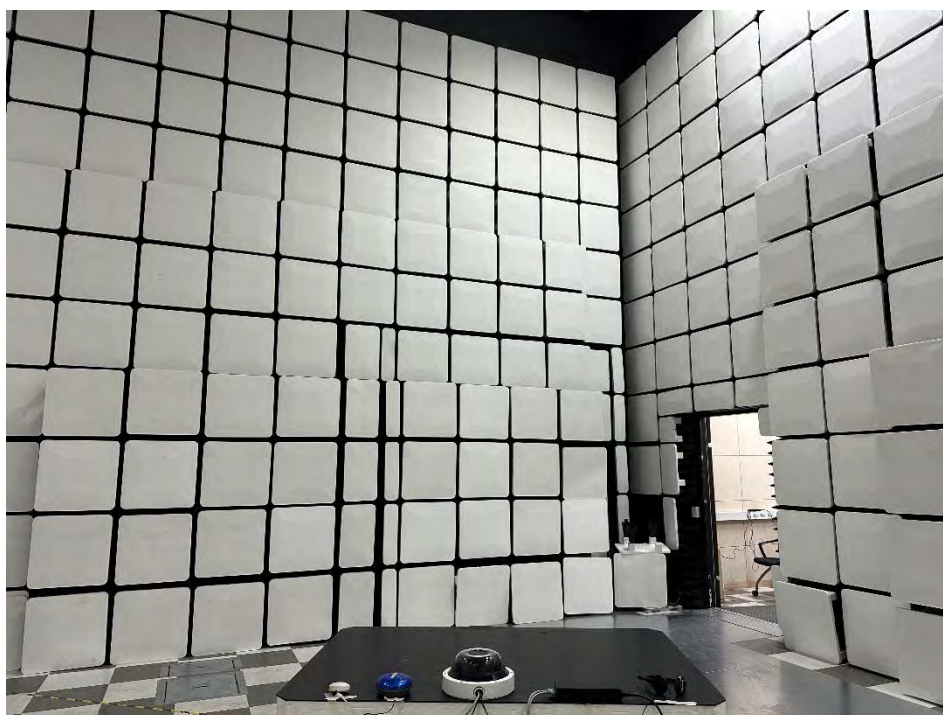
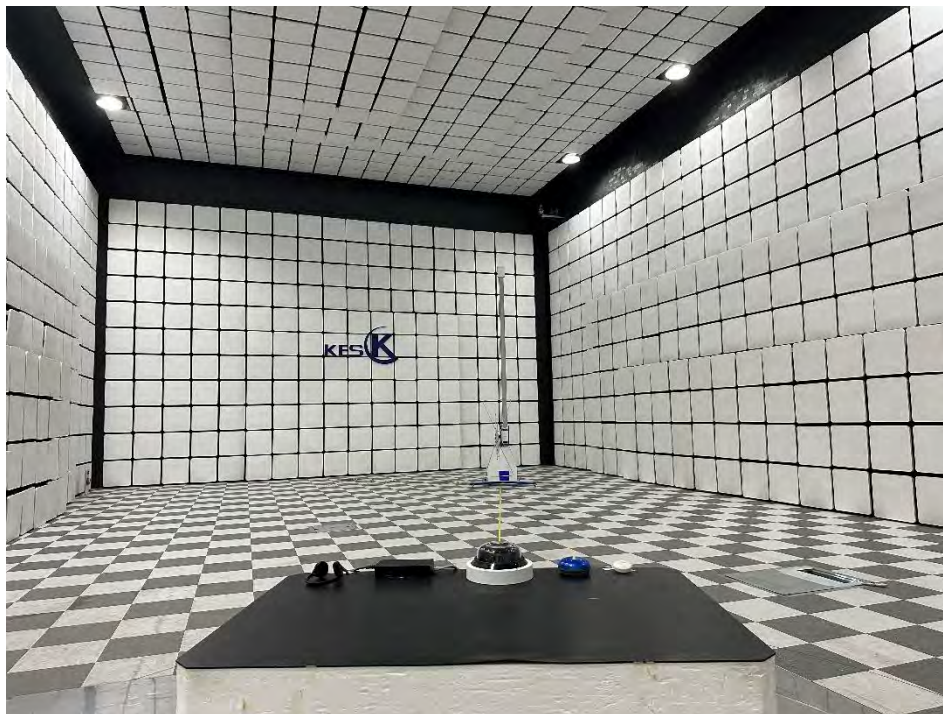
Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports



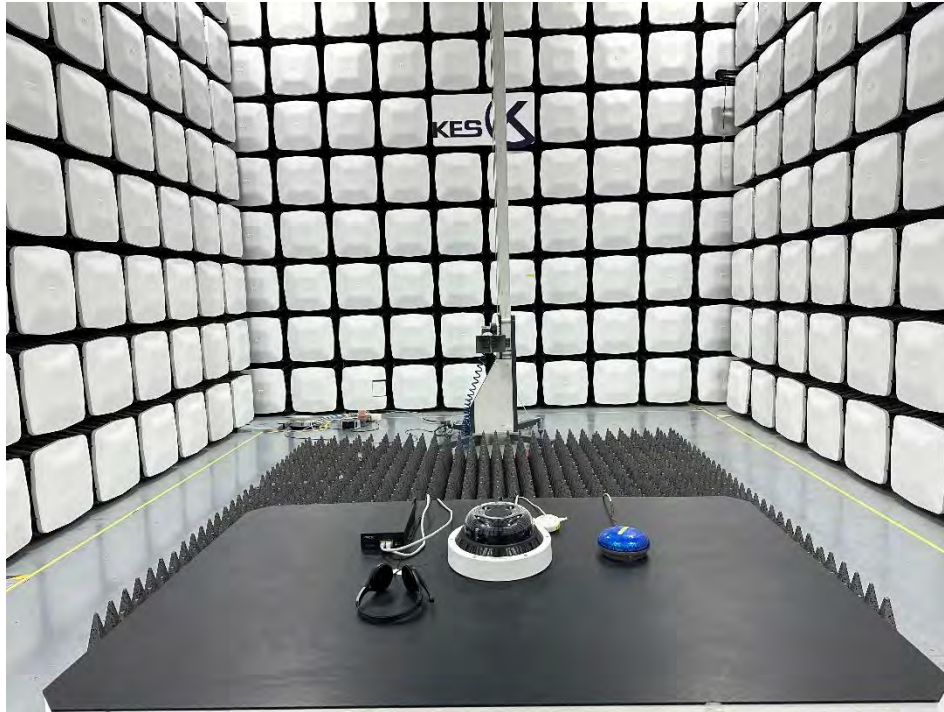
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Radiated Electric Field Emissions(Below 1 GHz)



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Radiated Electric Field Emissions(Above 1 GHz)



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EUT External Photographs

(Top)



(Bottom)



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EUT Internal Photographs

(Internal View)



EUT Internal View – Board 1

(Top)



(Bottom)



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EUT Internal View – Board 2

(Top)



(Bottom)



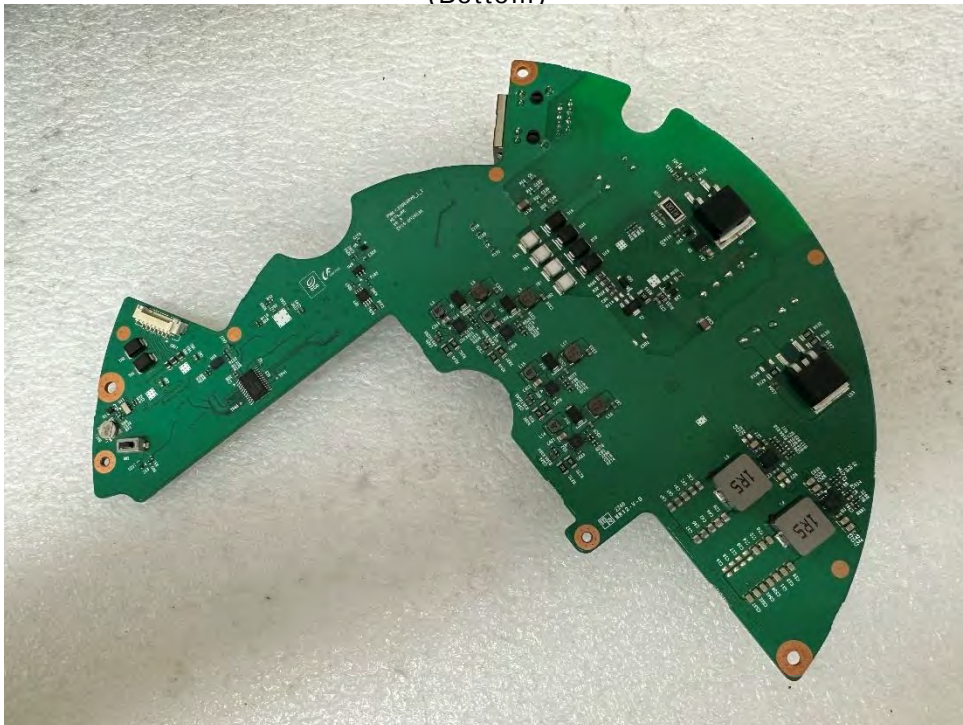
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EUT Internal View – Board 3

(Top)



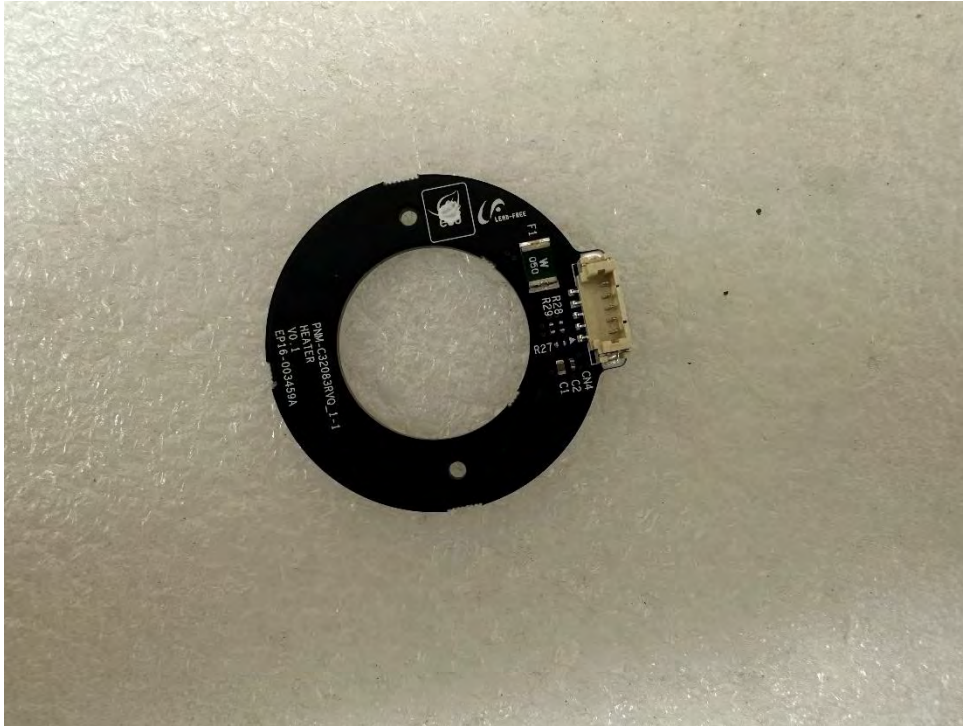
(Bottom)



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EUT Internal View – Board 4

(Top)



(Bottom)



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EUT Internal View – Board 5

(Top)



(Bottom)



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EUT Internal View – Board 6

(Top)



(Bottom)



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Label Photographs

FCC Label



Network Camera

PNM-C32083RVQ

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.