



EMC TEST REPORT For RCM

Test Report No. : KES-EM-23T0420
Date of Issue : May. 19, 2023
Product name : NETWORK CAMERA
Model/Type No. : QNV-C8083R
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)
Date of Receipt : Apr. 27, 2023
Test date : May. 11, 2023
Test Results : ☒ **In Compliance** ☐ **Not in Compliance**

Tested by

Jun Soo, Jung
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.



REPORT REVISION HISTORY

Date	Test Report No.	Revision History
May. 19, 2023	KES-EM-23T0420	Issued

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1.0 General Product Description

Main Specifications of EUT are:

Video		Security	
Imaging Device	1/2.8" CMOS	OS / Firmware Protect	Secure boot, Signed firmware, Firmware encryption
Resolution	2592x1944, 2560x1440, 1920x1080, 1280x960, 1280x720, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240	User authentication	Digest Authentication, Prevent brute-force attack
Max. Frame rate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 30fps@BMP Max. 5fps	Network authentication	802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2)
NETD	None	Secure Communication	HTTPS, SRTP, WSS(Websocket secure)
Pixel Size	None	Access Control	Access control based on IP address
Min. Illumination	Color: 0.15Lux(F1.6, 1/30sec) BW: 0.015Lux(F1.6, 1/30sec, 30IRE), 0Lux(IR LED on)	Data Protect	Authentication information encryption, ZIP compression encryption
Video Out	USB: Micro USB Type B, 1280x720 for installation	Audit	User Access/System/Event log management
Video Transmission Distance	None	Device ID	Device Certificate(Hanwha Private Root CA)
Lens		Secure Storage	SDcard partition encrypt
Focal Length (Zoom Ratio)	3.2~10.2mm(3.2x) motorized varifocal	Security Certificate	Secure by default
Max. Aperture Ratio	F1.6(Wide)~F3.1(Tele)	General	
Angular Field of View	H: 95°(Wide)~29°(Tele) V: 69°(Wide)~21°(Tele) D: 126°(Wide)~36°(Tele)	Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
Min. Object Distance	1.2m (3.93ft)	Web Viewer	None
Focus Control	Simple focus	Edge Storage	Micro SD/SDHC/SDXC 1slot 256GB
Lens Type	DC auto iris(IR corrected)	Memory	2GB RAM, 1GB Flash
Mount Type	None	Environmental & Electrical	
Optional Lens	None	Operating Temperature / Humidity	-30°C~+55°C(-22°F ~ +131°F) / 0~95% RH * Start up should be done at above -30°C
Pan / Tilt / Rotate	0°~350° / -35°~70° / 0°~355°	Storage Temperature / Humidity	-50°C~+60°C(-58°F ~ +140°F) / 0~95% RH
Pan Range	None	Certification	IP66, IK10
Pan Speed	None	Input Voltage	PoE(IEEE802.3af, Class3)
Tilt Range	None	Power Consumption	PoE: Max 12.95W, typical 5.3W
Tilt Speed	None	Mechanical	
Rotate Range	None	Color / Material	White / Aluminum
Sequence	None	Bubble	Bubble : Hard-coated dome
Preset Accuracy	None	RAL Code	RAL9003
Operational		Product Dimensions / Weight	ø140x110.2mm(ø5.51x4.34"), 875g(1.93 lb)
Camera Title	Displayed up to 85 characters	Compatible Conduit hole / Gangbox	Conduit hole : None Gangbox : Single, Double, 4" Octagon
Direction Indicator	None	Hanging Mount (Dome)	SBP-140HMMW
Day & Night	Auto(ICR)	Skin Cover	None
Backlight Compensation	BLC, WDR, SDDR	Skin Cover (Dome)	None
Wide Dynamic Range	120dB	Weather Cap (Dome)	None
Digital Noise Reduction	32NR V, WiseNR II (Based on AI engine)	Power Module	None
Digital Image Stabilization	None	Backbox	SBV-140BW
Defog	None	Certifications & Standards	
Motion Detection	Bea, 8point Polygonal zones	Network	None
Privacy Masking	32ea, rectangular zones	EMC	FCC 47 CFR 15 Subpart B Class A ICES-3(A)/NMB-3(A) CE/UKCA - EN 55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3 VCCI CISPR 32 Class A RCM AS/NZS CISPR 32 Class A
Gain Control	Low / Middle / High		UL 62368-1, CAN/CSA C22.2 NO. 62368-1 IEC/EN 62471
White Balance	ATW / AWC / Manual / Indoor / Outdoor		IEC/EN 63000 IEC/EN 60529 IP66, IEC/EN 62262 IK10
LDC	Support	Safety	None
Electronic Shutter Speed	Minimum / Maximum / Anti Flicker (1/5~1/12,000sec)	Environment	None
Digital PTZ	Support	Video	None
Video Rotation	Flip, Mirror, Hallway view(90°/270°)	DORI (EN62676-4 standard)	
Analytics	Classified object type: Person/Vehicle	Detect (25PPM/ 8PPF)	Wide: 42.7m(140.20ft) / Tele: 186.9m(613.28ft)
	Attributes: Vehicle(Type:car/bus/truck/motorcycle/bicycle)	Observe (63PPM/ 19PPF)	Wide: 17.2m(56.08ft) / Tele: 75.4m(245.31ft)
	Support Detection/Shot	Recognize (125PPM/ 38PPF)	Wide: 8.5m(28.04ft) / Tele: 37.4m(122.66ft)
	Analytics events based on AI engine	Identify (250PPM/ 76PPF)	Wide: 4.3m(14.02ft) / Tele: 18.7m(61.33ft)
	- Motion detection*, Object detection, Virtual line*(Crossing/Direction), Virtual area*(Loitering/Intrusion/Enter/Exit)	LPR/ANPR/MMCR	
Alarm I/O	Analytics events	Speed Description	None
	- Defocus detection, Tampering, Virtual area(Appear/Disappear)	Speed limit	None
	* Some of the video analytics only works with people and vehicle detection	Min. Forward Distance	None
	Business Intelligence	Max. Forward Distance	None
	Serial Interface	Max. Horizontal Angle	None
Alarm Triggers	Input Tea / Output Tea	Max. Vertical Angle	None
	* Alarm I/O is supported through an optional cable(SPP-C7400)	Horizontal Offset	None
	Analytics, Network disconnect, Alarm input	Camera Height	None
	When alarm trigger occurred	Lane Coverage	None
	- File upload(image) : e-mail/FTP	Vehicle Recognition	None
Alarm Events	- Notification : e-mail	Available Countries	None
	- Recording : SD/SDHC/SDXC or NAS recording at event triggers	Wisenet Road AI LPR/ANPR/MMCR	
	- Alarm output	Solution	None
	- Handover(PTZ) preset, Send message by HTTP/HTTPS/TCP	Speed Description	None
	- Audio clip playback	Lane Coverage	None
Audio Streaming	None	Speed limit	None
	Audio In	Min. Forward Distance	None
	Selectable(mic in/line in)	Max. Forward Distance	None
	* Audio In is supported through an optional cable(SPP-C7400)	Max. Horizontal Angle	None
	Audio Out	Max. Vertical Angle	None
IR Illuminator (Optional)	Line out, Max.output level: 0.5Vrms	Horizontal Offset	None
	* Audio Out is supported through an optional cable(SPP-C7400)	Camera Height	None
	IR Viewable Length	Vehicle Recognition	None
	30m(98.42ft)	Available Countries	None
	IR Illuminator (Optional)	Wisenet Road AI LPR/ANPR/MMCR	
IR Radiation angle	None	Solution	None
	None	Speed Description	None
	IR LED	Lane Coverage	None
	long-life 850 nm IR LED	Speed limit	None
	IR Operation	Min. Forward Distance	None
Water Removal	None	Max. Forward Distance	None
	None	Max. Horizontal Angle	None
	Auto Tracking	Max. Vertical Angle	None
	Coaxial Protocol	Horizontal Offset	None
	None	Camera Height	None
Color Palettes	None	Vehicle Recognition	None
	None	Available Countries	None
	None	Wisenet Road AI LPR/ANPR/MMCR	
	None	Solution	None
	None	Speed Description	None
Radiometry	None	Lane Coverage	None
	Temperature Detect Range	Speed limit	None
	None	Min. Forward Distance	None
	Temperature Accuracy	Max. Forward Distance	None
	Temperature Detection	Max. Horizontal Angle	None
Additional	None	Max. Vertical Angle	None
	None	Horizontal Offset	None
	None	Camera Height	None
	None	Vehicle Recognition	None
	None	Available Countries	None
Network		Wisenet Road AI LPR/ANPR/MMCR	
Ethernet	RJ-45(10/100BASE-T)	Solution	None
Video Compression	H.265/H.264: Main/High, MJPEG G.711 u-law /G.726 Selectable G.726(ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz	Speed Description	None
Audio Compression	G.711 u-law /G.726 Selectable G.726(ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz	Lane Coverage	None
Smart Codec	Manual(Sea area), WiseStream II	Speed limit	None
Video Quality Adjustment	H.264/H.265: Target bitrate level control MJPEG: Quality Level control	Min. Forward Distance	None
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR	Max. Forward Distance	None
Streaming	Unicast(t users) / Multicast Multiple streaming(Up to 5 profiles)	Max. Horizontal Angle	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, SRTP (TCP, UDP Unicast)	Max. Vertical Angle	None
SIP support (VoIP, Peer-to-peer)	None	Horizontal Offset	None
Security	None	Camera Height	None
Application Programming Interface	ONVIF Profile S/G/T/M SUNAPI(HTTP API)	Vehicle Recognition	None
		Available Countries	None

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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.

☒ PoE

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	QNV-C8083R	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
PoE Injector	PT-PSE109GBRO-AH-S	PT2250220748	Dongguan PROCET Network Technology Co.,Ltd	-
Notebook	9JM8HT2	9JM8HT2	DELL INC.	-
Notebook adapter	HA65NM130	-	Chicony Power Technology (Suzhou)Co.,Ltd.	-
Micro SD card	-	-	SanDisk	-
Alarm	PRO-SL	-	SENSOR PRO	-
Button Alarm	-	-	-	-
Headset	K550	-	Britz®	-
Smartphone	SM-N960N	R39K804BTK	SAMSUNG	-

1.6 External I/O Cabling

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
NETWORK CAMERA (EUT)	RJ-45	PoE Injector	RJ-45(PoE)	3.1	U
	Micro SD card slot	Micro SD card	Micro SD card slot	-	-
	Alarm OUT	Alarm	Alarm IN	3.1	U
	Alarm IN	Button Alarm	Alarm OUT	3.1	U
	Audio IN	Headset	Line	1.9	U
	Audio OUT				U
PoE Injector	RJ-45(LAN)	Notebook	RJ-45	2.5	U
Notebook	DC jack	Notebook adapter	Line	1.5	U

* Unshielded = U, Shielded = S

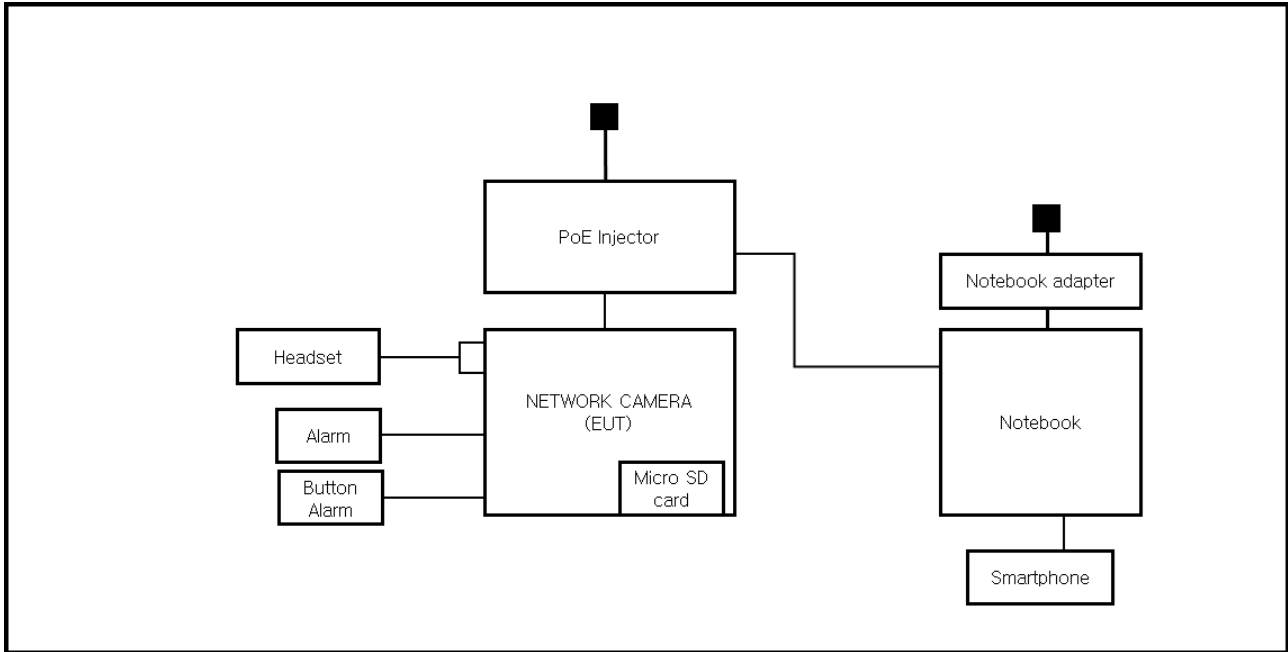
1.7 EUT Operating Mode(s)

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. Verify that the 1kHz tone sound played on the smartphone is outputted normally to the headset. 4. Press the Button alarm to check if the Alarm works properly. 5. 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 main power ports were excluded tested, because the EUT operated by PoE powered.
- The USB port was excluded from the test because it was for administrators.

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

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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
www.kes.co.kr

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2.0 Test Regulations

The emissions tests were performed according to following regulations:

☒ **AS/NZS CISPR 32:2015 AMD 1:2020**

☒ Class A

☐ Class B

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2.1 Conducted Emissions at Mains Power Ports

Test Date

N/A

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

Test Conditions

Temperature:

°C

Relative Humidity:

% 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

Refer to 'Remarks when standards applied'.

2.2 Conducted Emissions at Telecommunication Ports

Test Date

May. 11, 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
☒	8-WIRE ISN CAT3,5	ENY81	R & S	100174	11, 22, 2023
☐	8-WIRE ISN CAT6	ENY81-CAT6	R & S	101665	11, 22, 2023
☐	CDN	CDNS502A	TESEQ	40431	11, 10, 2023

Test Conditions

Temperature: (22,3 ± 0,1) °C

Relative Humidity: (43,6 ± 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.

- For Ethernet interfaces, measurements are required at the highest data rate supported by the interface.

2.3 Radiated Electric Field Emissions(Below 1 GHz)

Test Date

May. 11, 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

Test Conditions

Temperature: (23,0 ± 0,1) °C

Relative Humidity: (43,7 ± 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

See Appendix A for test data.

2.4 Radiated Electric Field Emissions(Above 1 GHz)

Test Date

May. 11, 2023

Test Location

SEMI ANECHOIC CHAMBER #3

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	ESR7	R & S	101190	08, 01, 2023
☒	PREAMPLIFIER	8449B	AGILENT	3008A01967	03, 06, 2024
☒	ATTENUATOR	8491A	HP	35496	03, 03, 2024
☒	DOUBLE RIDGED HORN ANTENNA	SAS-571	A.H.SYSTEM,INC	781	03, 06, 2024

Test Conditions

Temperature: (23,6 ± 0,1) °C

Relative Humidity: (42,8 ± 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.



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
www.kes.co.kr

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APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports HOT LINE

N/A

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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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NEUTRAL LINE

N/A

◆ Calculation

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

QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

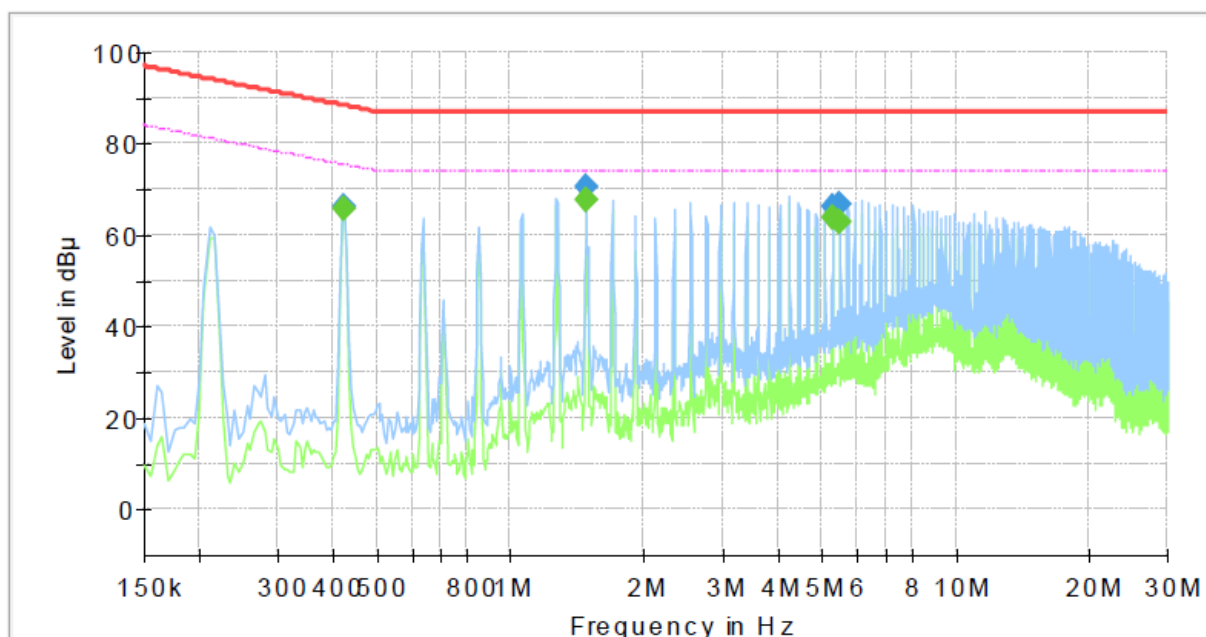
Corr. : Correction values (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

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Conducted Emissions at Telecommunication Ports [100 Mbps]

Common Information

Test Description: Telecommunication Emission
 Model No.: QNV-C8083R
 Mode :
 Speed : 100 Mbps
 Operator Name: KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.425000	---	65.97	75.35	9.38	1000.0	9.000	Single Line	19.7
0.425000	66.01	---	88.35	22.34	1000.0	9.000	Single Line	19.7
1.480000	---	67.63	74.00	6.37	1000.0	9.000	Single Line	20.1
1.480000	70.62	---	87.00	16.38	1000.0	9.000	Single Line	20.1
5.295000	---	63.58	74.00	10.42	1000.0	9.000	Single Line	19.4
5.295000	66.45	---	87.00	20.55	1000.0	9.000	Single Line	19.4
5.505000	---	62.67	74.00	11.33	1000.0	9.000	Single Line	19.4
5.505000	66.86	---	87.00	20.14	1000.0	9.000	Single Line	19.4

◆ Calculation

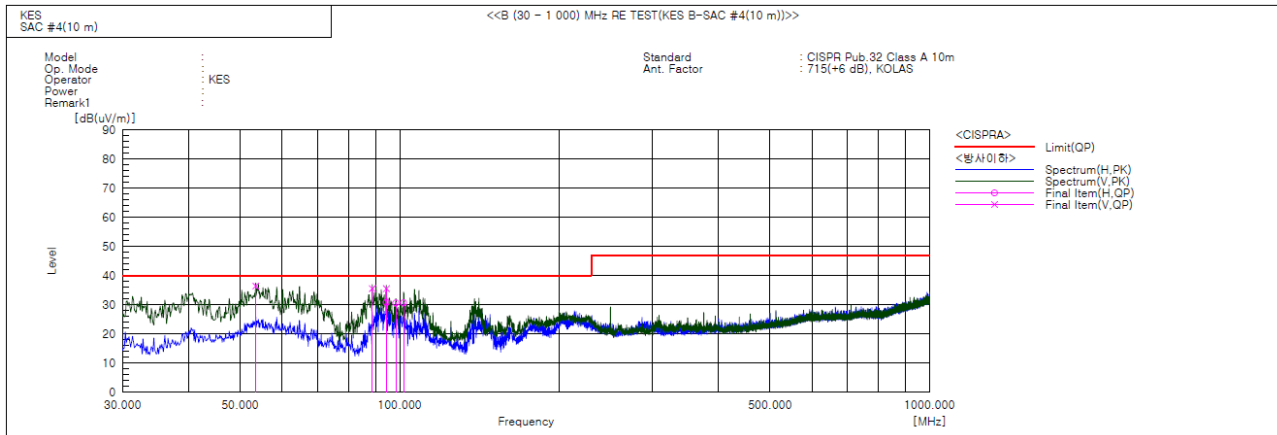
QuasiPeak [dBμV] / CAverage [dBμV] = Reading Value [dBμV] + Corr. [dB]

QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

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

Radiated Electric Field Emissions(Below 1 GHz)



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	53.523	V	57.2	-20.8	36.4	40.0	3.6	105.0	303.0	
2	88.806	V	60.1	-24.6	35.5	40.0	4.5	102.0	88.0	
3	94.384	V	58.4	-22.9	35.5	40.0	4.5	109.0	92.0	
4	94.384	H	53.7	-22.9	30.8	40.0	9.2	391.0	78.0	
5	98.385	H	53.1	-22.5	30.6	40.0	9.4	387.0	86.0	
6	101.780	H	53.1	-22.4	30.7	40.0	9.3	400.0	52.0	

◆ Calculation

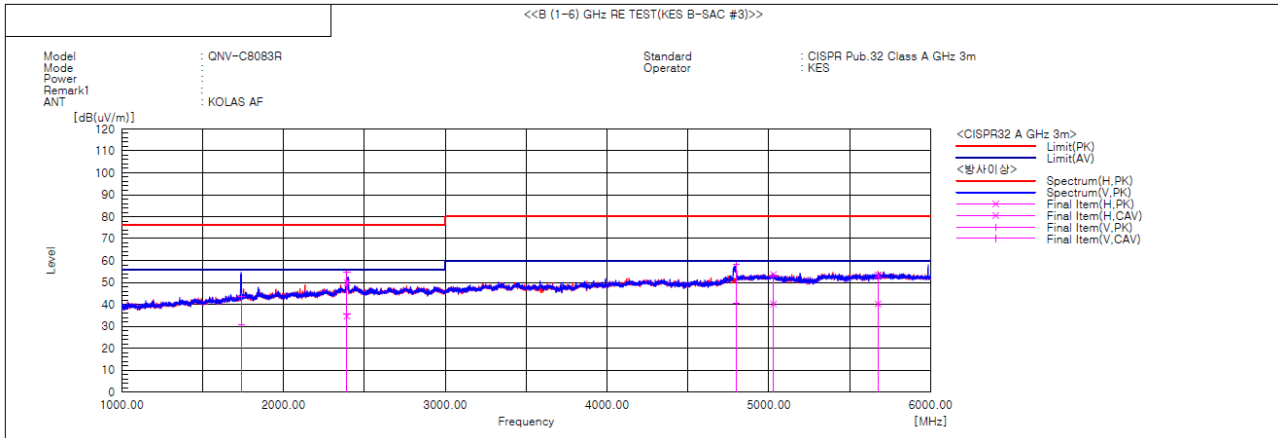
Result(QP) [dB(μV/m)] = (Reading(QP)[dB(μV)] + c.f[dB(1/m)])

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)



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	1738.738	V	41.3	28.5	2.2	43.5	30.7	76.0	56.0	32.5	25.3	100.0	328.0	
2	2390.846	V	48.7	29.7	6.0	54.7	35.7	76.0	56.0	21.3	20.3	100.0	149.7	
3	2392.119	H	43.9	28.6	6.0	49.9	34.6	76.0	56.0	26.1	21.4	100.0	19.1	
4	4797.083	V	44.6	26.6	13.7	58.3	40.3	80.0	60.0	21.7	19.7	100.0	7.2	
5	5028.177	H	38.5	25.0	15.2	53.7	40.2	80.0	60.0	26.3	19.8	100.0	228.2	
6	5675.207	H	37.6	24.4	15.8	53.4	40.2	80.0	60.0	26.6	19.8	100.0	115.7	

◆ 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



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
www.kes.co.kr

Report No.:
KES-EM-23T0420
Page (19) of (28)

Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports

N/A

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Conducted Emissions at Telecommunication Ports



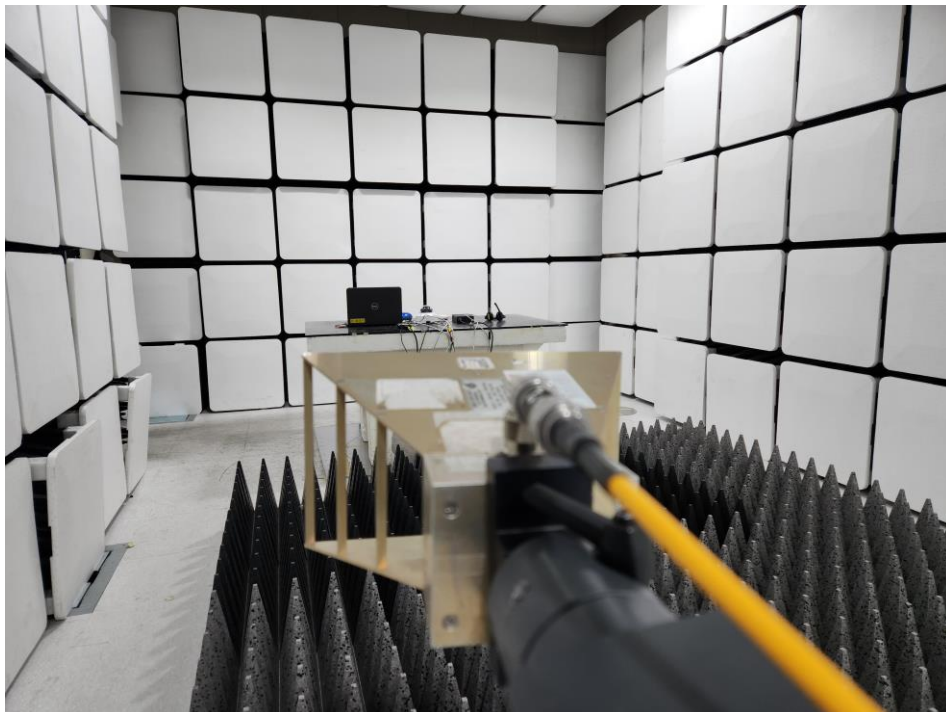
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Radiated Electric Field Emissions(Below 1 GHz)



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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

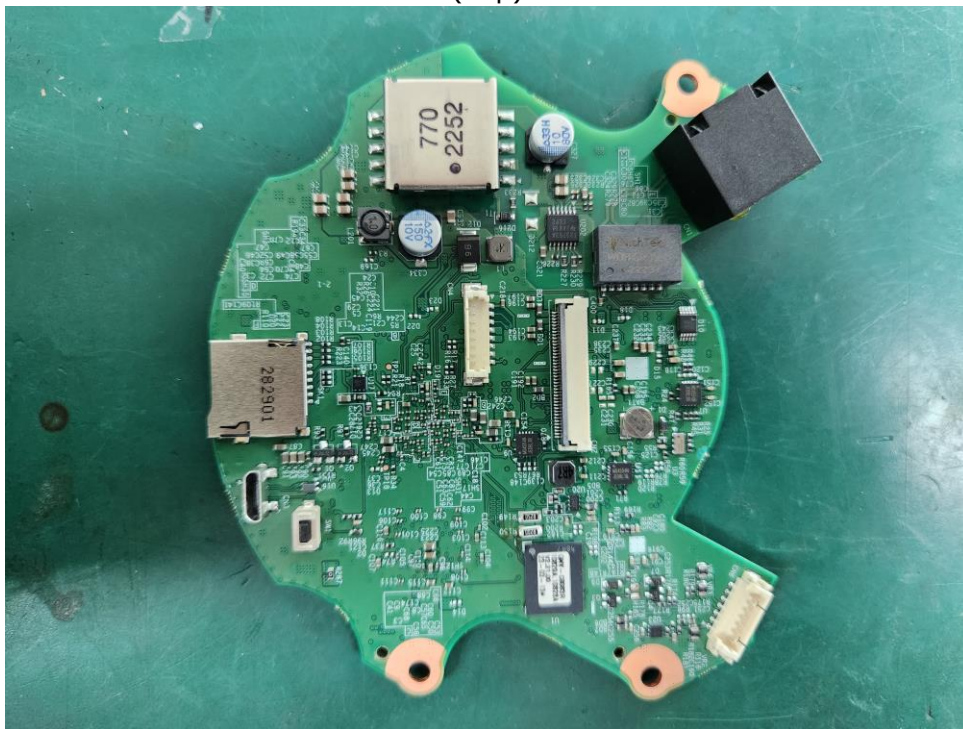
(Internal View)



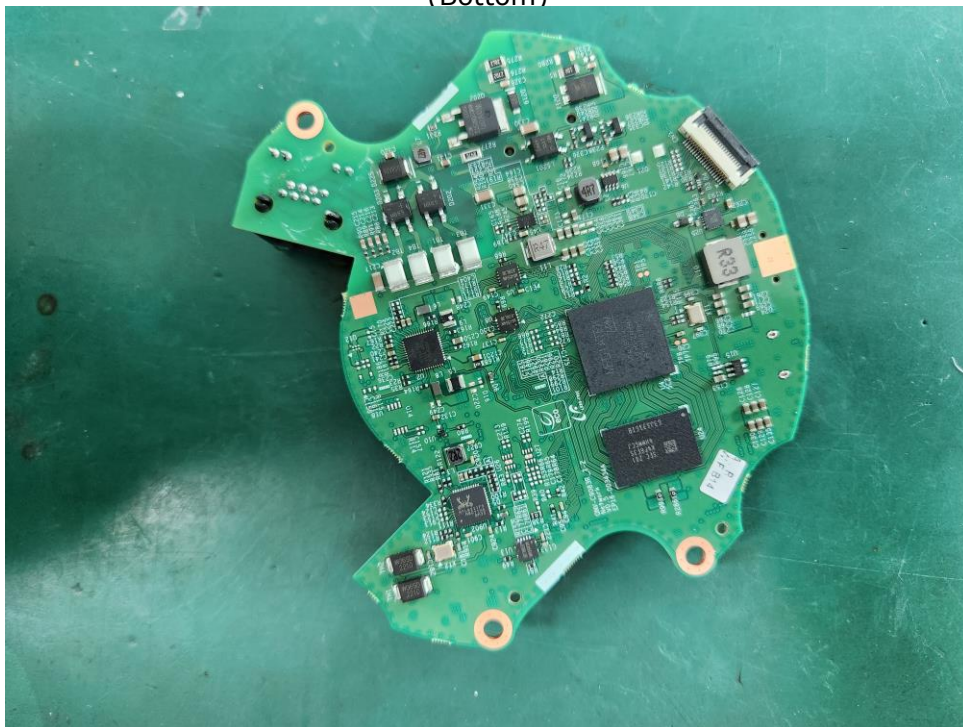
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EUT Internal View – Board 1

(Top)



(Bottom)



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EUT Internal View – Board 2

(Top)



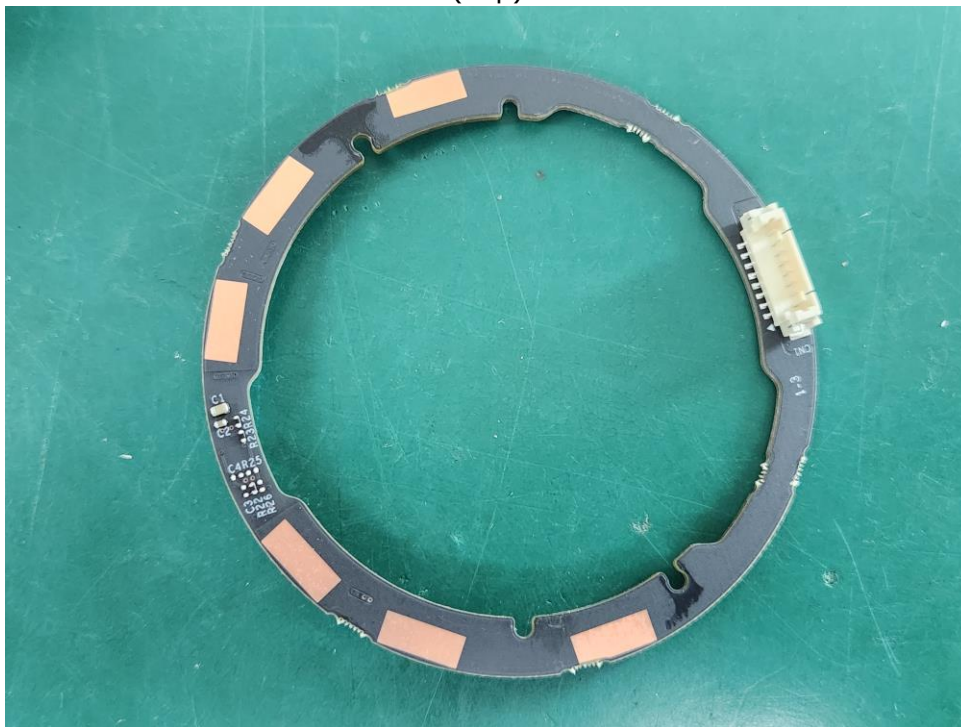
(Bottom)



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EUT Internal View – Board 3

(Top)



(Bottom)



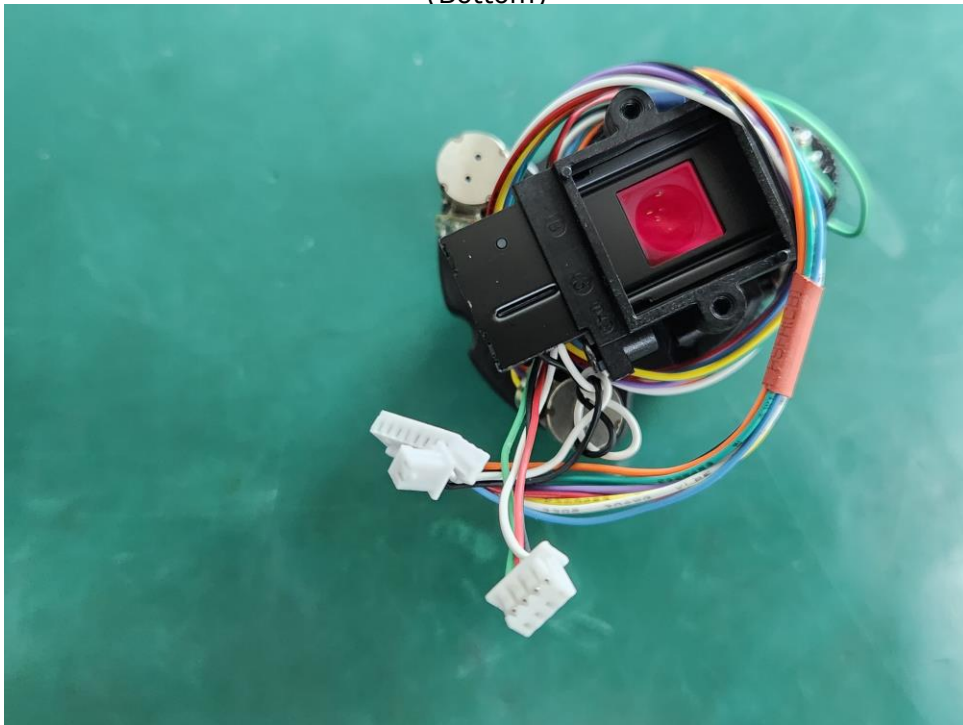
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EUT Internal View – Lens

(Top)



(Bottom)



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