

**KES Co., Ltd.**

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Report No.:

KES-EM-23T0295

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EMC TEST REPORT For RCM

Test Report No. : KES-EM-23T0295
Date of Issue : Apr. 06, 2023
Product name : Network Camera
Model/Type No. : ANO-L6082R
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 : Mar. 30, 2023
Test date : Apr. 03, 2023
Test Results : ☒ **In Compliance** ☐ **Not in Compliance**

Tested by

Dae Hyun, Kim
EMC Test Engineer

Reviewed by

Dong Il, Lee
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
Apr. 06, 2023	KES-EM-23T0295	Issued

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1.0 General Product Description

Main Specifications of EUT are:

	ANO-L6082R		
Video		Wide Dynamic Range	120dB
Imaging Device	1/2.8" CMOS	Digital Noise Reduction	SSNR
Resolution	1920x1080, 1280x960, 1280x720, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360	Digital Image Stabilization	None
Max. Framerate	H.264 : Max. 30fps/25fps(60Hz/50Hz) MJPEG : Max. 2fps at 1920x1080, Max.. 3fps at 1280x960, 1280x720, Max. 10fps at other resolution	Defog	None
NETD	None	Motion Detection	4ea, rectangler zones
Pixel Size	None	Privacy Masking	6ea, rectangular zones
Min. Illumination	Color: 0.03Lux(F1.6, 1/30sec) BW : 0Lux (IR LED on)	Gain Control	Low / Middle / High
Video Out	None	White Balance	ATW / AWC / Manual / Indoor / Outdoor
Video Transmission Distance	None	LDC	Support
Lens		Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2~1/12,000sec)
Focal Length (Zoom Ratio)	3.3~10.3mm(3.1x) motorized varifocal	Digital PTZ	None
Max. Aperture Ratio	F1.6(Wide) ~ F3.3(Tele)	Video Rotation	Flip, Mirror, Hallway view(90°/270°)
Angular Field of View	H: 105.2°(Wide) ~ 30.6°(Tele) V: 54.8°(Wide) ~ 17.2°(Tele) D: 126.9°(Wide) ~ 35.1°(Tele)	Analytics	Motion detection, Tampering
Min. Object Distance	0.5m(1.64ft)	Business Intelligence	None
Focus Control	Simple focus	Serial Interface	None
Lens Type	DC auto iris	Alarm I/O	None
Mount Type	None	Alarm Triggers	Analytics
Optional Lens	None	Alarm Events	File upload via FTP and e-mail Notification via e-mail SD/SDHC recording at event triggers
Pan / Tilt / Rotate		Audio Streaming	None
Pan / Tilt / Rotate Range	None	Audio In	None
Pan Range	None	Audio Out	None
Pan Speed	None	IR Viewable Length	30m(98.43ft)
Tilt Range	None	IR Illuminator (Optional)	None
Tilt Speed	None	Water Removal	None
Rotate Range	None	Auto Tracking	None
Sequence	None	Coaxial Protocol	None
Preset Accuracy	None	Color Palettes	None
Operational		Radiometry	
Camera Title	Displayed up to 15 characters	Temperature Detect Range	None
Direction Indicator	None	Temperature Accuracy	None
Day & Night	Auto(ICR)	Temperature Detection	None
Backlight Compensation	BLC, WDR, SSDR	Additional	None
		Network	



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Ethernet	RJ-45(10/100BASE-T)	Backbox	SBV-A148
Video Compression	H.264: Main/Baseline/High, MJPEG	DORI (EN62676-4 standard)	
Audio Compression	None	Detect (25PPM/ 8PPF)	Wide: 29.4m(96.32ft) / Tele: 140.4m(460.52ft)
Smart Codec	WiseStreamII	Observe (63PPM/ 19PPF)	Wide: 11.7m(38.53ft) / Tele: 56.1m(184.21ft)
Video Quality Adjustment	H.264: Target bitrate level control MJPEG: Quality level control	Recognize (125PPM/ 38PPF)	Wide: 5.9m(19.26ft) / Tele: 28.1m(92.10ft)
Bitrate Control	H.264: CBR or VBR MJPEG: VBR	Identify (250PPM/ 76PPF)	Wide: 2.9m(9.63ft) / Tele: 14.0m(46.05ft)
Streaming	Unicast(6 users) / Multicast Multiple streaming (Up to 3 profiles)	LPR/ANPR/MMCR	
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	Speed Description	None
SIP support (VoIP, Peer-to-peer, SIP/P	None	Speed limit	None
Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP)	Min. Forward Distance	None
Application Programming Interface	ONVIF Profile S/G/T SUNAPI(HTTP API)	Max. Forward Distance	None
General		Max. Horizontal Angle	None
Webpage Language	English	Max. Vertical Angle	None
Web Viewer	None	Horizontal Offset	None
Edge Storage	Micro SD/SDHC 1slot 32GB	Camera Height	None
Memory	512MB RAM, 256MB Flash	Lane Coverage	None
Environmental & Electrical		Vehicle Recognition	None
Operating Temperature / Humidity	-30°C ~ +55°C(-22°F ~ +131°F) / Less than 95% RH * Start up should be done at above -20°C(-4°F)	Available Countries	None
Storage Temperature / Humidity	-30°C ~ +55°C(-22°F ~ +131°F) / Less than 95% RH	Wisenet Road AI LPR/ANPR/MMCR	
Certification	IP66	Solution	None
Input Voltage	PoE(IEEE802.3af, Class3)	Speed Description	None
Power Consumption	Max 7.0W, Typical 5.0W	Lane Coverage	None
Mechanical		Speed limit	None
Color / Material	White / Plastic	Min. Forward Distance	None
RAL Code	RAL9003	Max. Forward Distance	None
Product Dimensions / Weight	Ø78.0x262.0mm(Ø3.07x10.31"), 390g(0.86lb)	Max. Horizontal Angle	None
Compatible Conduit hole / Gangbox	None	Max. Vertical Angle	None
Hanging Mount (Dome)	None	Horizontal Offset	None
Skin Cover	None	Camera Height	None
Skin Cover (Dome)	None	Vehicle Recognition	None
Weather Cap (Dome)	None	Available Countries	None
Power Module	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	ANO-L6082R	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
Micro SD Card	-	-	SanDisk	-
Notebook	Latitude 5300	8C47BE45C060	DELL INC.	-
Notebook Adapter	HA65NM130	-	Chicony Power Technology(Suzhou)Co.,L td.	-
PoE Adapter	PT-PSE109GBRO- AH-S	-	Dongguan PROCET Network Technology Co., Ltd	-

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)	PoE Adapter	RJ-45 (PoE)	3.5	U
	Micro SD Card Slot	Micro SD Card	Micro SD Card Slot	-	-
Notebook	RJ-45 (LAN)	PoE Adapter	RJ-45 (LAN)	1.5	U
Notebook	DC Jack	Notebook Adapter	DC Jack	1.7	U

* Unshielded = U, Shielded = S

1.7 EUT Operating Mode(s)

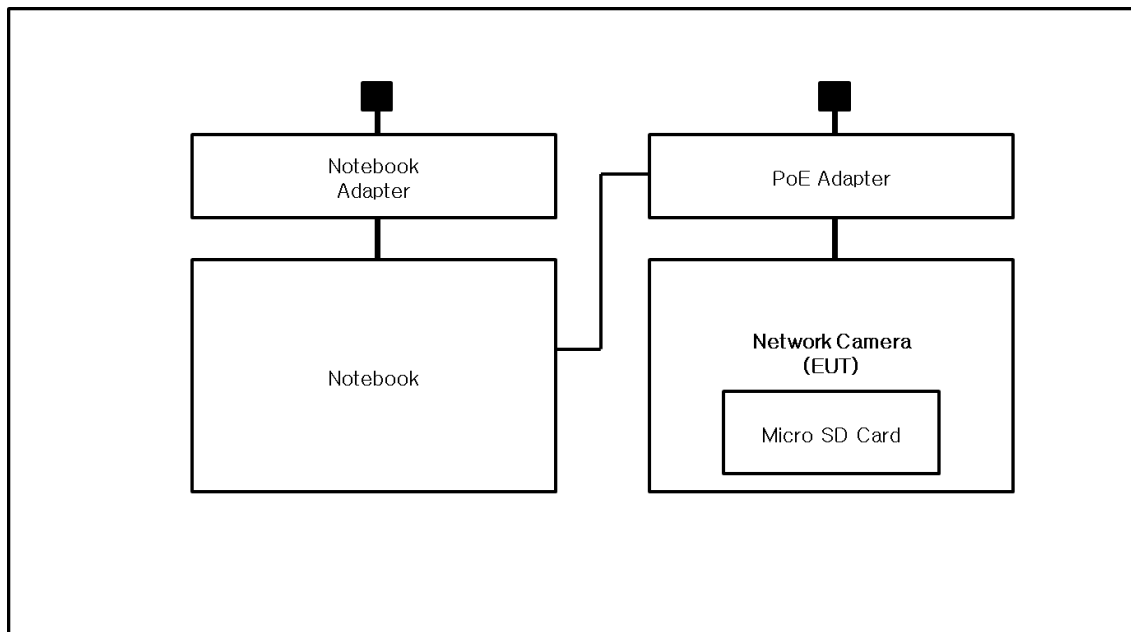
Test mode	operating
Operation	1. Check if the EUT image is output to the laptop normally. 2. Check if the network is operating normally through a ping test. 3. After the test, check if the EUT video has been recorded normally.

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

N/A

1.10 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less.

1.11 Test Facility

The measurement facility is located at 473-21, Gayeo-ro, Yeosu-si, Gyeonggi-do, 12658, Korea, Republic of. The sites are constructed in conformance with the requirements of ANSI C63.4a-2017 and CISPR 16-1-4:2019

1.12 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Logo
KOREA	RRA	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 KR0100
International	KOLAS	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 KT489
USA	FCC	3 m & 10 m Semi-Anechoic Chamber Conducted test site to perform FCC Part 15/18 measurements.	 KR0100
Canada	ISED	3 m & 10 m Semi-Anechoic Chamber and Conducted test site	 23298
JAPAN	VCCI	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site)	 C-20136, T-20137, R-20181, G-20176
Europe	TÜV SÜD	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 CARAT 001633 0004



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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

It is not tested apply because it is powered by PoE

2.2 Conducted Emissions at Telecommunication Ports

Test Date

Apr. 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
☒	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: (22,9 ± 0,0) °C

Relative Humidity: (42,6 ± 0,0) % 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.

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2.3 Radiated Electric Field Emissions(Below 1 GHz)

Test Date

Apr. 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

Test Conditions

Temperature: (21,7 ± 0,1) °C
Relative Humidity: (42,9 ± 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

Apr. 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

Test Conditions

Temperature: (24,5 ± 0,1) °C

Relative Humidity: (43,1 ± 0,0) % R.H.

Frequency Range of Measurement

1 GHz to 6 GHz

Instrument Settings

IF Band Width: 1 MHz

Test Results

The requirements are:

- ☒ PASS
☐ NOT PASS
☐ NOT APPLICABLE

Remarks

- See Appendix A for test data.
- The Average of the test data is the cispr average result.



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APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports HOT LINE

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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.

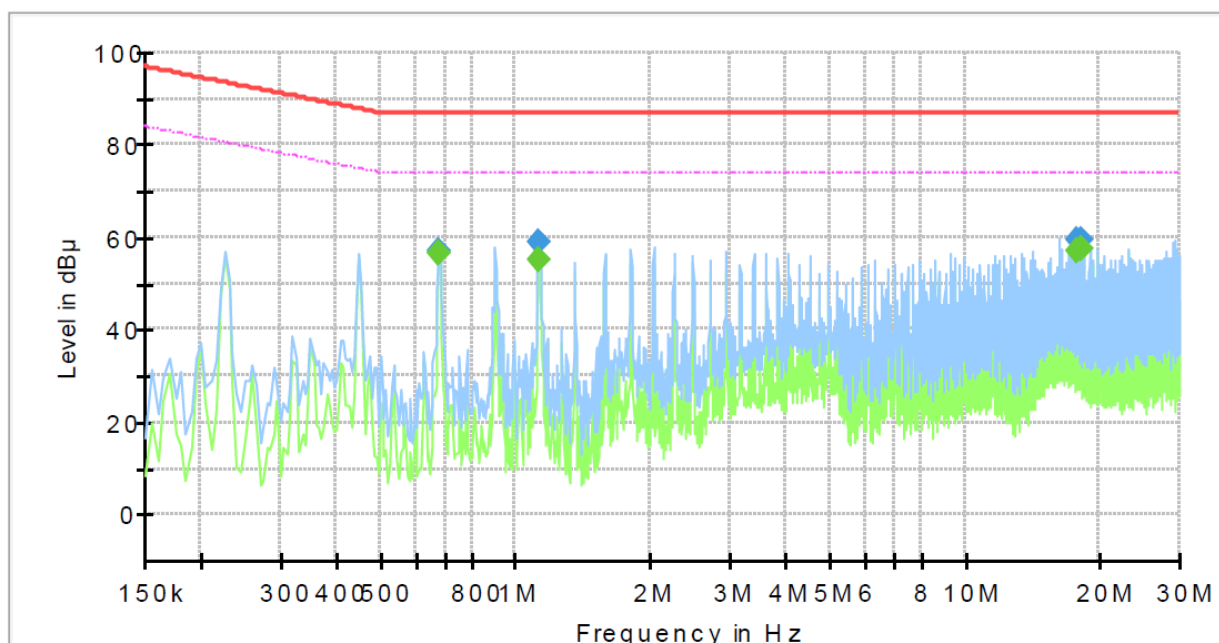
Corr. : Correction values (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

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Conducted Emissions at Telecommunication Ports [100 Mbps]

Common Information

Test Description: Telecommunication Emission
Model No.: ANO-L6082R
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)
0.675000	---	56.36	74.00	17.64	1000.0	9.000	Single Line	19.8
0.675000	56.96	---	87.00	30.04	1000.0	9.000	Single Line	19.8
1.125000	---	54.98	74.00	19.02	1000.0	9.000	Single Line	20.1
1.125000	59.01	---	87.00	27.99	1000.0	9.000	Single Line	20.1
17.695000	---	57.23	74.00	16.77	1000.0	9.000	Single Line	19.8
17.695000	59.31	---	87.00	27.69	1000.0	9.000	Single Line	19.8
18.245000	---	57.45	74.00	16.55	1000.0	9.000	Single Line	19.9
18.245000	59.57	---	87.00	27.43	1000.0	9.000	Single Line	19.9

◆ Calculation

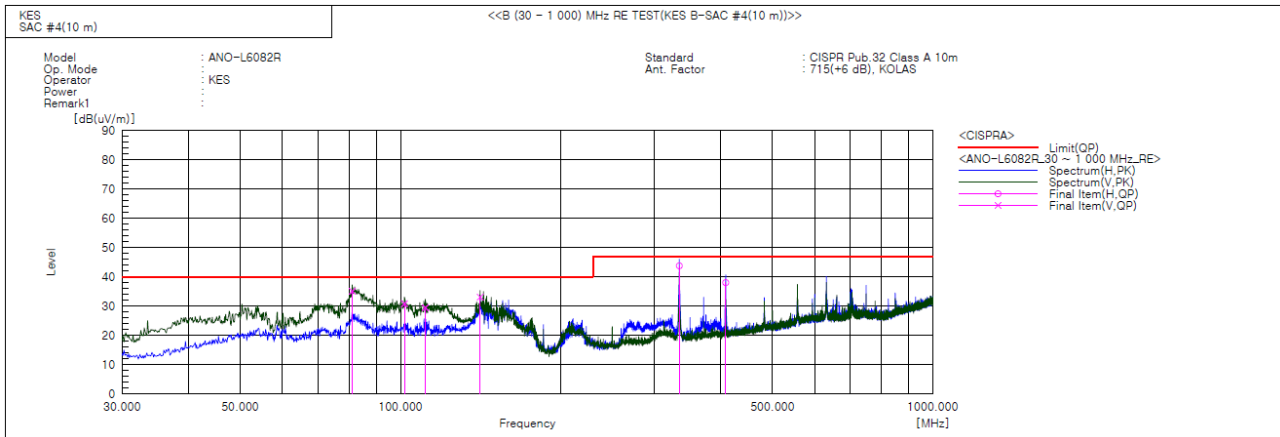
QuasiPeak[dBuV] / CAverage [dBuV] = Reading Value[dBuV] + Corr. [dB]

QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

Corr. : Correction values (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	81.168	V	62.5	-27.4	35.1	40.0	4.9	122.0	217.0	
2	101.780	V	53.2	-22.4	30.8	40.0	9.2	100.0	251.0	
3	111.359	V	52.5	-23.0	29.5	40.0	10.5	100.0	281.0	
4	141.186	V	58.5	-25.4	33.1	40.0	6.9	119.0	191.0	
5	334.095	H	59.7	-16.0	43.7	47.0	3.3	245.0	135.0	
6	408.421	H	51.7	-13.7	38.0	47.0	9.0	400.0	127.0	

◆ Calculation

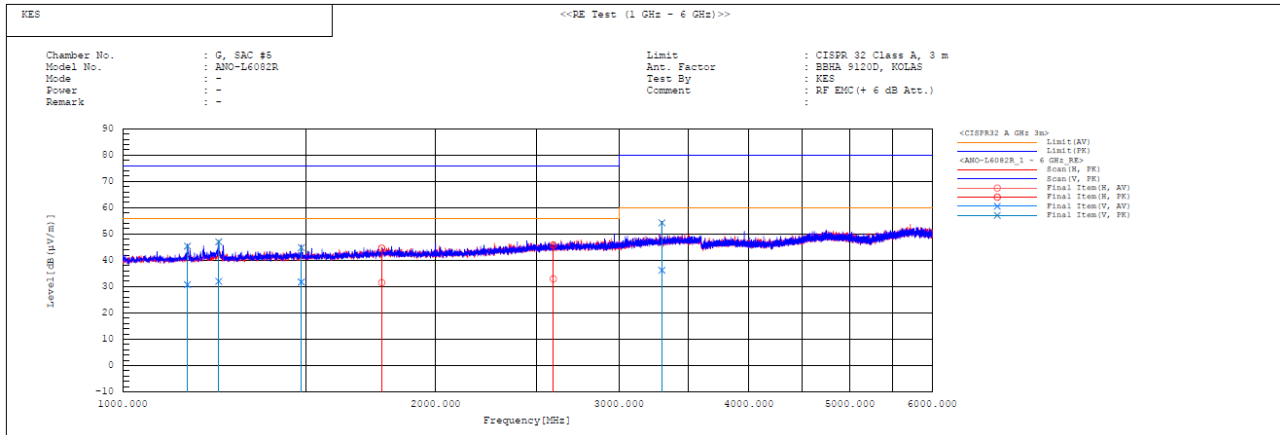
Result(QP) [dB(μV/m)] = (Reading(QP)[dB(μV)] + c.f[dB(1/m)])

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)



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	1154.540	V	32.2	46.9	-1.5	30.7	45.4	56.0	76.0	25.3	30.6	100.0	221.1	
2	1237.314	V	33.0	48.0	-1.0	32.0	47.0	56.0	76.0	24.0	29.0	100.0	145.3	
3	1485.202	V	31.5	44.6	0.2	31.7	44.8	56.0	76.0	24.3	31.2	100.0	165.5	
4	1774.231	H	29.9	43.0	1.6	31.5	44.6	56.0	76.0	24.5	31.4	100.0	113.0	
5	2594.454	H	28.9	41.8	4.0	32.9	45.8	56.0	76.0	23.1	30.2	100.0	107.4	
6	3299.869	V	30.3	48.3	5.9	36.2	54.2	60.0	80.0	23.8	25.8	100.0	170.3	

◆ 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



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KES-EM-23T0295
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Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports

N/A

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Conducted Emissions at Telecommunication Ports



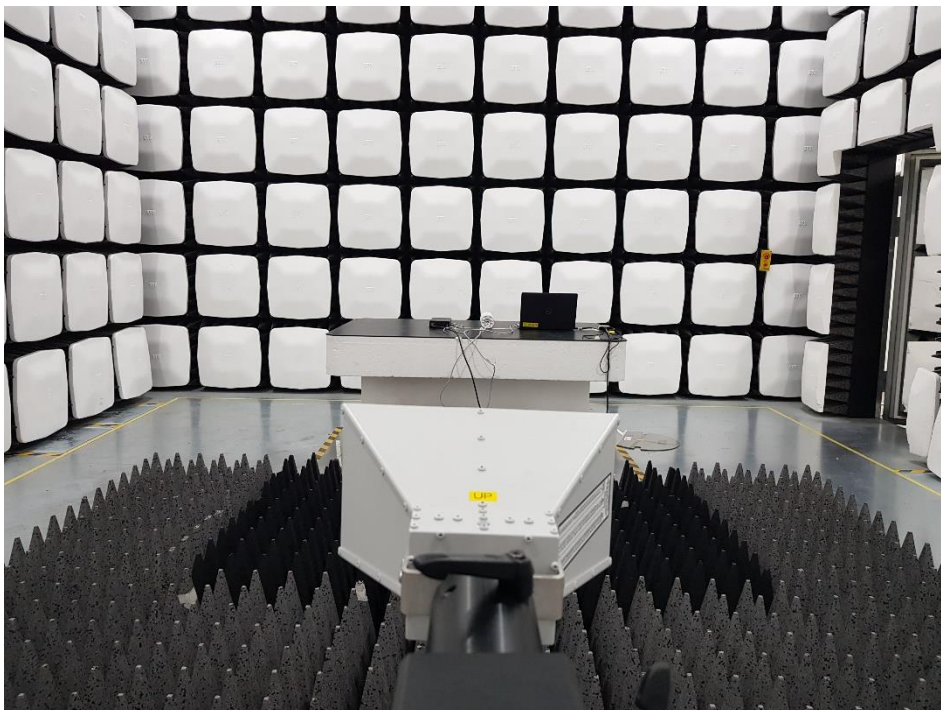
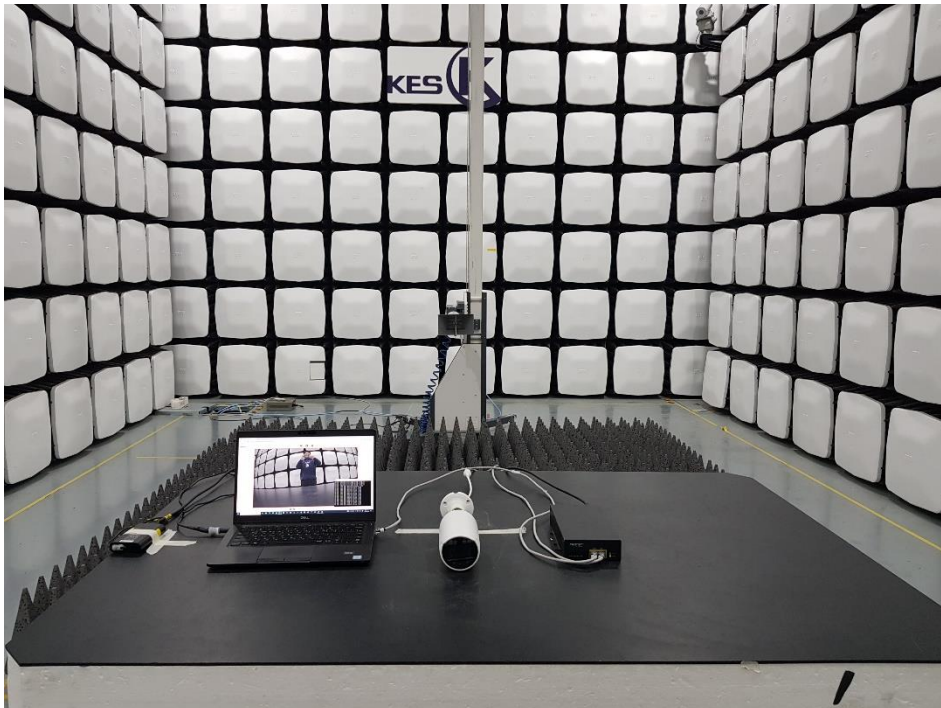
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Radiated Electric Field Emissions(Below 1 GHz)



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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)



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)



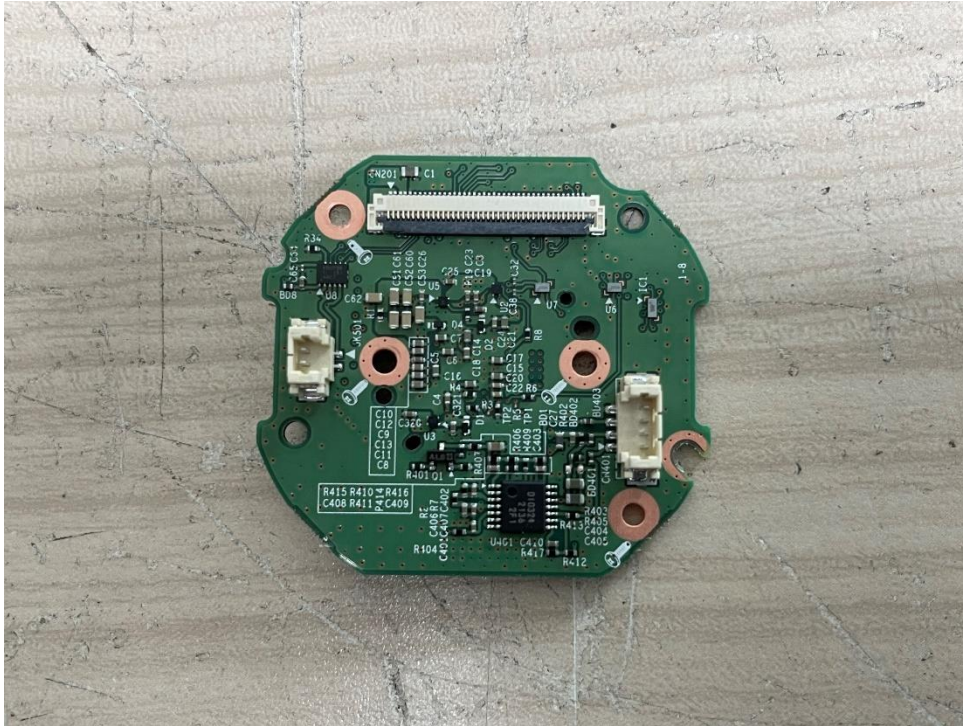
(Bottom)



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EUT Internal View – Board 4

(Top)



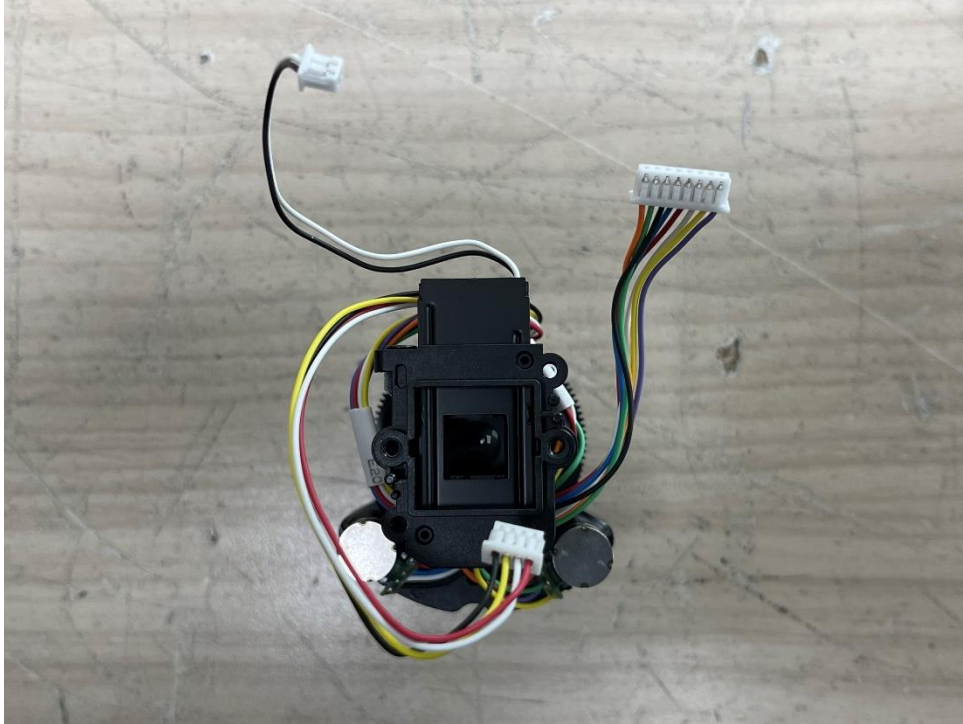
(Bottom)



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EUT Internal View – Lens

(Top)



(Bottom)



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