



TEST REPORT



Report No. : KES-EM252079

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KES Co., Ltd.

#3002, #3503, #3701, 40, Simin-daero365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Republic of Korea
Tel : +82-31-425-6200, Fax : +82-31-341-3838

1. Client

Applicant : Hanwha Vision Co., Ltd

Applicant Address : 6, Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

2. Sample Description

Product name : NETWORK CAMERA

Model/Type No. : XNB-A6004

Variant Model : -

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 Ward, Bac Ninh Province, Vietnam
2. 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi- do, Korea (Suwon Industrial Complex)

3. Date of Receipt : Jun. 09, 2025

4. Test date : Jul. 08, 2025 ~ Jul. 09, 2025

5. Date of Issue : Aug. 19, 2025

6. Test Results : In Compliance

Tested by

Reviewed by

Jun Ki, Kim
EMC Test Engineer

Seong Min, Choi
EMC Technical Manager

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

KES-QP16-F01(00-23-01-01)

KES Co., Ltd.

The authenticity of this test report can be found on the verification page of our website (www.kes.co.kr)

**REPORT REVISION HISTORY**

Date	Test Report No.	Revision History
Aug. 19, 2025	KES-EM252079	Issued

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1.0 General Product Description

Main Specifications of EUT are:

XNB-A6004		
Video		
Imaging Device	Size	1/2.8"
	Type	CMOS
Resolution		1920x1080, 1280x960, 1280x720, 1024x768, 800x600, 640x480, 640x360, 320x240, 320x180
Max. Framerate	H.265/H.264	60fps/50fps(60Hz/50Hz)(WDR off) / 30fps/25fps(60Hz/50Hz)(WDR on)
	MJPEG	30fps
Video Out		USB: Micro USB Type C
Lens		
Focus Control		Simple focus
Lens Type		DC auto iris, P iris(IR corrected), Manual, I-CS
Mount Type		C mount, CS mount
Operational		
Day & Night		Auto(ICR)
Backlight Compensation		BLC, HLC, WDR, SSDR
Wide Dynamic Range (dB)		150
Digital Noise Reduction		WiseNR II (Based on AI engine), SSNR V
Digital Image Stabilization		Support
Defog		Support
Motion Detection	Quantity	8ea
	Shape	8point Polygonal zones
Privacy Masking	Quantity	32ea
	Shape	8point Polygonal zones
	Color / Option	Gray, Green, Red, Blue, Black, White, Mosaic, Purple, Yellow
	Dynamic Privacy Masking: Color / Option	Gray, Green, Red, Blue, Black, White, Mosaic, Purple, Yellow
Gain Control		Off, Max gain, Manual
White Balance		ATW, NarrowATW, AWC, Manual, Indoor, Outdoor
LDC		Support(Fill/stretch mode)
Electronic Shutter	Mode	Minimum, Maximum, Anti flicker, Prefer shutter control(Based on AI engine)
	Speed Range	2~1/30,000sec
Video Rotation		Flip, Mirror, Hallway view(90°/270°)
Serial Interface		RS-485(Samsung-T, Pelco-D/P, Panasonic, Bosch, AD, GE, Vicon, Honeywell)
Alarm Interface	In/Out	2 configurable I/O ports
	Others	Support extra alarm I/O via optional I/O box
Alarm Triggers		Analytics, Network disconnect, Alarm input, Time schedule, MQTT subscription, Day/Night, Storage disruption
Alarm Events When Alarm Trigger Occurred		File upload(image): e-mail/FTP/SFTP, File upload(video clip): FTP/SFTP, 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, MQTT: publication, SIP: call generation
Audio In		Selectable(mic in/line in), Built-in mic
Audio Out		Line out



Analytics		
Classified Object Type		Person, Face, Vehicle, License plate
Attributes	Person	Upper/Lower clothes color, Gender, Bag
	Vehicle	Type(car, bus, truck, motorcycle, bicycle), Color
	Face	Age, Gender, Face mask, Glasses
Re-ID		Person
Thumbnail		BestShot
Analytics Events	Based on AI Engine	Object detection, Virtual line(Crossing/Direction), Motion detection, Face mask detection, Social distancing detection, Slip & fall detection, Virtual area(Loitering/Intrusion/Enter/Exit/Appear/Disappear)
	Normal	Defocus detection, Tampering, Audio detection, Shock detection
Business Intelligence	Based on AI Engine	People counting, Queue management, Heatmap, Vehicle counting, Crowd counting
	Normal	None
Network		
Ethernet		Metal shielded RJ-45(10/100BASE-T)
Video Compression		H.265/H.264: Main/Baseline/High, MJPEG
Audio Compression		G.711(PCM): 8kHz(64kbps), G.726(ADPCM): 8kHz(16/24/32/40kbps), AAC-LC: 16kHz(48kbps), OPUS: 48kHz(64kbps)
Smart Codec		WiseStream(Based on AI engine)
Bitrate Control		H.265/H.264: CBR or VBR, MJPEG: VBR
Streaming	Unicast	Up to 20 users
	Multicast	Support
	Multiple Streaming	Up to 5 profiles, 3 virtual channel support
Protocol		IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SFTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT, SMTP(StartTLS), SIP, Syslog
SIP support (VoIP, Peer-to-peer, SIP/PBX integration)		Tested with Cisco, Grandstream, Yealink VoIP phones and Asterisk PBX software
Application Programming Interface	ONVIF	S, G, T, M
	Others	SUNAPI(HTTP API), Hanwha Vision Open Platform
	OnCloud(미사용 항목)	OnCloud edge recording, compatible with Hanwha SD cards up to 1TB
Direct Cloud Connection		Support
Security		
OS / Firmware Protect		Encrypted firmware, Secure boot, Signed firmware
User authentication		Digest authentication, Prevent brute-force attack
Network authentication		IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Secure Communication		HTTPS, WSS(WebSocket Secure), SRTP, 802.1AE(MACsec)
Access Control		IP-based access control, MAC-based access control, Auto logout
Data Protect		Encryption credentials, Encrypt compress for live recording file export
Audit		Access / System / Event Log management
Device ID		Device certificate(Hanwha Vision Root CA)
Secure Storage		SDcard partition encrypt(AES-256), Secure element
Supply Chain Security		SBOM
Security Certificate		Secure element(RIPS 140-3 level3, CC EAL6+), ETSI EN 303 645, IEC 62443-4-1



General		
Memory	RAM	4GB
	Flash	8GB eMMC
Edge Storage	Micro SD/SDHC/SDXC	Max. 1TB x 2slot(Total 2TB)
	SSD	None
Environmental & Electrical		
Operating Condition	Temperature	-10°C~+55°C(+14°F~+131°F)
	Humidity	0~95% RH(non-condensing)
Storage Condition	Temperature	-50°C~+60°C(-58°F~+140°F)
	Humidity	0~90% RH(non-condensing)
Input Voltage		PoE(IEEE802.3af, Class3), 12VDC
Power Consumption	PoE	Max. 7.5W, typical 6.0W
	12VDC	Max. 6.9W, typical 5.6W
Wakeup		Power monitoring, ECO mode
Power Redundance Failover		Support
Mechanical		
Color		Black
Material		Aluminum
Material Management	Declaration	RoHS(EU RoHS directive 2011/65/EU and IEC/EN 63000:2018), REACH(Regulation (EC) No. 1907/2006), Conflict mineral policy(Section 1502 of US Dodd Frank Act)
RAL Code		RAL9005
Product Dimensions		81(W)x67(H)x165(D)mm(3.19x2.64x6.48")
Product Weight		851g(1.88lb)
Certifications & Standards		
EMC		FCC 47 CFR 15 Subpart B Class A, ICES-3(A)/NMB-3(A), CE/UKCA - EN55032 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, KS C 9832 Class A, KS C 9835
Safety		UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471
Environment		IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78



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 100 V, 60 Hz (AC/DC Adpater) ☒ AC 100 V, 60 Hz (PoE Injector 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	XNB-A6004	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
AC/DC Adapter	2ACB022F	-	ChAnnel Well Technology (Guangzhou) Co.,Ltd.	-
PoE Injector	POE 29U-1AT	-	PHIHONG	-
Laptop	NT500R5W	-	Samsung Electronics	-
Laptop Adapter	A13-040N2A	-	Chicony Power Technology Co., Ltd.	-
Lens	-	-	-	-
Controller	SPC-1010	-	SamSung Techwin Co.,Ltd.	-
Controller Adapter	AP-12005A	-	A Power Co., Ltd	-
LED Alarm	PRO-SL	-	SENSOR PRO	-
Button Alarm	-	-	-	-
Headset	K550	-	Britz®	-
Micro SD Card	-	-	SanDisk	-



1.6 External I/O Cabling

■ mode 1

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
NETWORK CAMERA (EUT)	DC Input (2 Pin)	AC/DC Adapter	Line-Out (DC Jack)	1.0	U
	Audio IN (3.5 mm)	Laptop	Audio OUT (3.5 mm)	0.8	U
	RJ-45		RJ-45	3.5	U
	IRIS	Lens	IRIS	0.2	U
	RS-485	Controller	RS-485	3.1	U
	Alarm OUT	LED Alarm	Alarm IN	3.2	U
	Alarm IN	Button Alarm	Alarm OUT	3.1	U
	Audio OUT (3.5 mm)	Headset	Audio IN (3.5 mm)	1.7	U
	Micro SD Card Slot	Micro SD Card	Micro SD Card Slot	-	-
	GND	GND	GND	2.0	U
Laptop	DC Jack	Laptop Adapter	Line-Out (DC Jack)	1.6	U
Controller	DC Jack	Controller Adapter	Line-Out (DC Jack)	1.4	U

* Unshielded=U, Shielded=S



■ mode 2

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
NETWORK CAMERA (EUT)	RJ-45 (PoE)	PoE Injector	RJ-45 (DATA)	3.5	U
	Audio IN (3.5 mm)	Laptop	Audio OUT (3.5 mm)	0.8	U
	IRIS	Lens	IRIS	0.2	U
	RS-485	Controller	RS-485	3.1	U
	Alarm OUT	LED Alarm	Alarm IN	3.2	U
	Alarm IN	Button Alarm	Alarm OUT	3.1	U
	Audio OUT (3.5 mm)	Headset	Audio IN (3.5 mm)	1.7	U
	Micro SD Card Slot	Micro SD Card	Micro SD Card Slot	-	-
	GND	GND	GND	2.0	U
PoE Injector	RJ-45 (DATA)	Laptop	RJ-45	1.5	U
Laptop	DC Jack	Laptop Adapter	Line-Out (DC Jack)	1.6	U
Controller	DC Jack	Controller Adapter	Line-Out (DC Jack)	1.4	U

* Unshielded=U, Shielded=S



1.7 EUT Operating Mode(s)

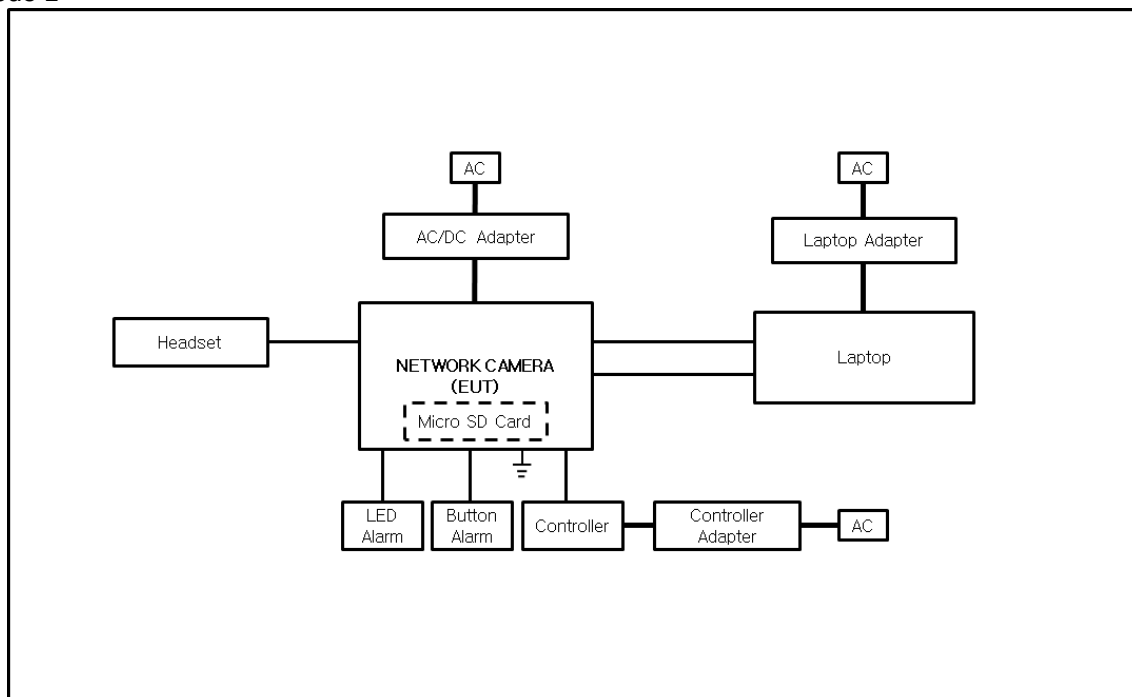
Test mode		Normal operating
Mode 1	DC 12 V	- IP from the test equipment to the laptop was tested by Ping Test on the laptop. - The test was conducted by checking whether the camera image was output normally in the Web Viewer. - After the test, I checked whether the video was recorded normally on the Micro SD Card.
Mode 2	PoE	

EUT Test operating S/W		
Name	Version	Manufacture Company
Web Viewer	-	HANWHA VISION VIETNAM COMPANY LIMITED

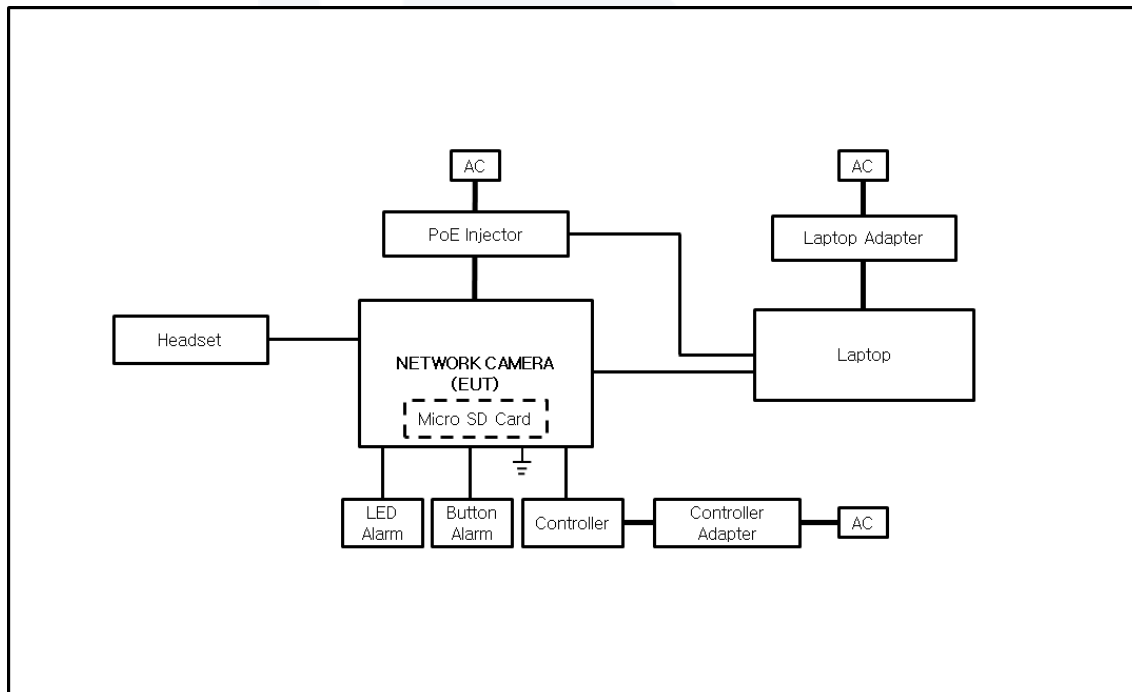


1.8 Configuration

■ mode 1



■ mode 2



**1.9 Remarks when standards applied**

USB Type-C 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 0008



2.0 Test Regulations

The emissions tests were performed according to following regulations:

☒ VCCI-CISPR 32:2016

☒ Class A

☐ Class B





2.1 Conducted Emissions Mains Power Ports

Test Date

Jul. 08, 2025

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, 06, 2025
☒	LISN	ENV216	R & S	101786	01, 09, 2026
☒	ARTIFICIAL MAINS NETWORK	ESH2-Z5	R & S	100450	11, 06, 2025
☒	PULSE LIMITER	ESH3-Z2	R & S	101915	11, 06, 2025

Test Conditions

Temperature: (23,1 ± 0,1) °C

Relative Humidity: (46,0 ± 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

RemarksSee Appendix A for test data.



2.2 Conducted Emissions at Telecommunication Ports

Test Date

Jul. 08, 2025

Test Location

Electro wave Shieldroom #6

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test SW	EMC32	R & S	9.12.00	-
☒	EMI TEST RECEIVER	ESR3	R & S	101783	11, 06, 2025
☒	LISN	ENV216	R & S	101786	01, 09, 2026
☒	ARTIFICIAL MAINS NETWORK	ESH2-Z5	R & S	100450	11, 06, 2025
☒	PULSE LIMITER	ESH3-Z2	R & S	101915	11, 06, 2025
☒	8-WIRE ISN CAT3,5	ENY81	R & S	100174	11, 12, 2025

Test Conditions

Temperature: (23,1 ± 0,1) °C
Relative Humidity: (46,0 ± 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

RemarksSee Appendix A for test data.



2.3 Radiated Electric Field Emissions(Below 1 GHz)

Test Date

Jul. 08, 2025

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	02, 13, 2026
☒	AMPLIFIER	SCU 01	R & S	100603	11, 06, 2025
☒	BILOG ANTENNA	VULB 9168	SCHWARZBECK	9168-461	05, 09, 2026
☒	ATTENUATOR	6806.17.A	HUBER+SUHNER	-	02, 13, 2026

Test Conditions

Temperature: (23,3 ± 0,2) °C

Relative Humidity: (46,1 ± 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

RemarksSee Appendix A for test data.



2.4 Radiated Electric Field Emissions(Above 1 GHz)

Test Date

Jul. 09, 2025

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	ESU26	R & S	100517	10, 07, 2025
☒	PREAMPLIFIER	8449B	AGILENT	3008A01967	03, 05, 2026
☒	ATTENUATOR	8491A	HP	35496	02, 13, 2026
☒	DOUBLE RIDGED HORN ANTENNA	SAS-571	A.H.SYSTEM,INC	781	03, 05, 2026

Test Conditions

Temperature: (24,1 ± 0,1) °C

Relative Humidity: (46,3 ± 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

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



APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

■ mode 1

HOT LINE

Test Description:

Job No.:

Phase:

Mode:

Operator Name:

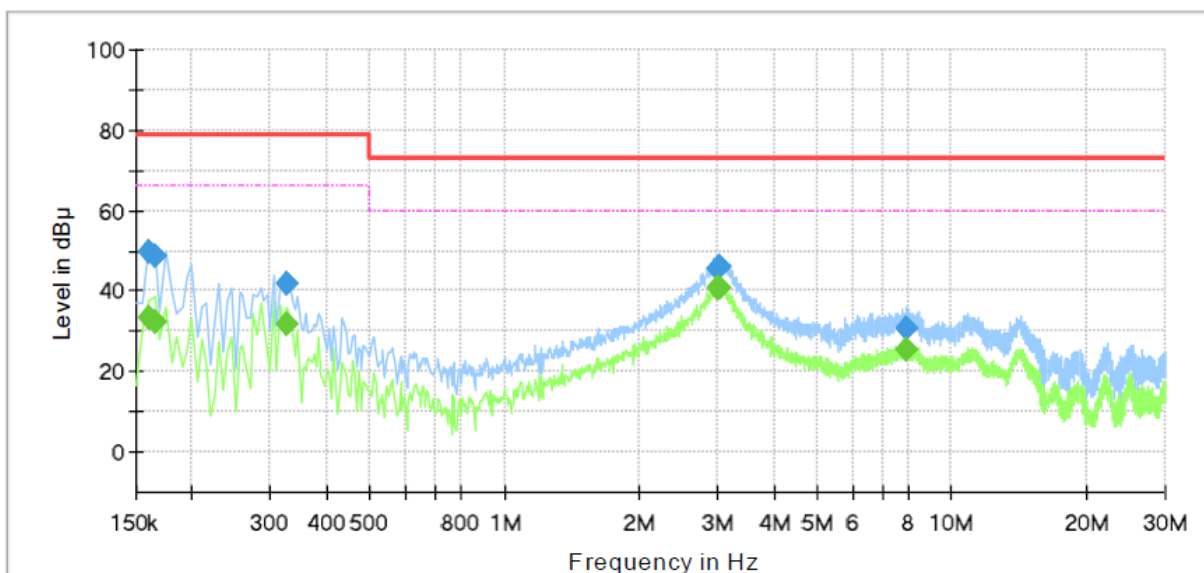
Conducted Emission

KES-EM252079

L

Mode 1

KES



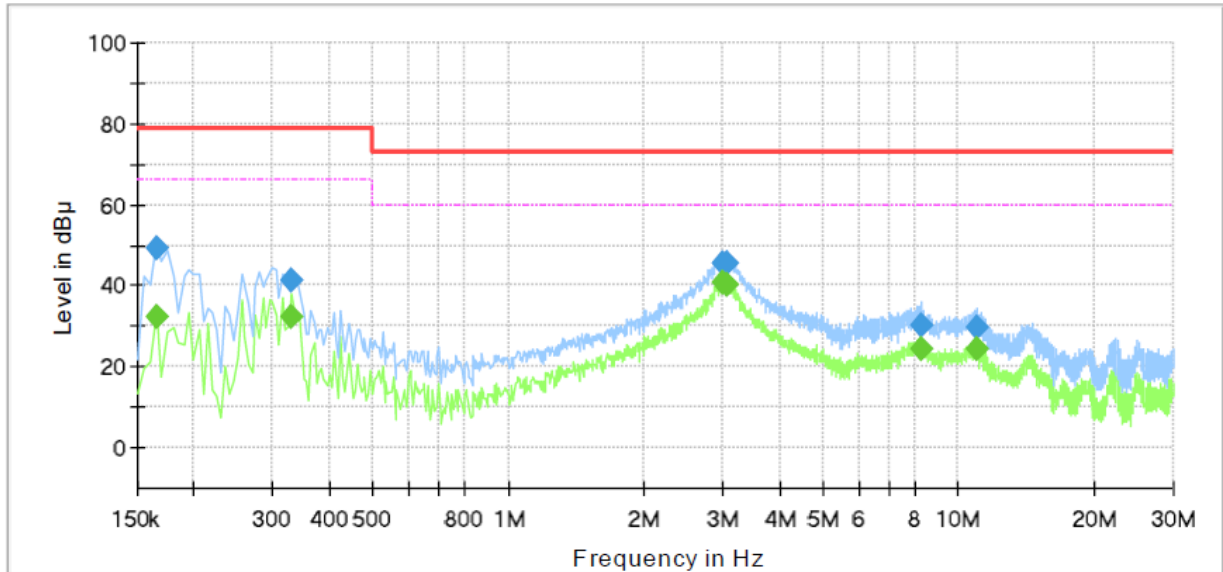
Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.160000	---	33.15	66.00	32.85	1000.0	9.000	L1	19.5
0.160000	49.75	---	79.00	29.25	1000.0	9.000	L1	19.5
0.165000	---	32.39	66.00	33.61	1000.0	9.000	L1	19.5
0.165000	48.96	---	79.00	30.04	1000.0	9.000	L1	19.5
0.325000	---	31.81	66.00	34.19	1000.0	9.000	L1	19.6
0.325000	41.92	---	79.00	37.08	1000.0	9.000	L1	19.6
3.005000	---	40.98	60.00	19.02	1000.0	9.000	L1	19.7
3.005000	45.78	---	73.00	27.22	1000.0	9.000	L1	19.7
3.010000	---	40.92	60.00	19.08	1000.0	9.000	L1	19.7
3.010000	45.82	---	73.00	27.18	1000.0	9.000	L1	19.7
7.900000	---	25.21	60.00	34.79	1000.0	9.000	L1	20.0
7.900000	30.63	---	73.00	42.37	1000.0	9.000	L1	20.0



NEUTRAL LINE

Test Description: Conducted Emission
Job No.: KES-EM252079
Phase: N
Mode: Mode 1
Operator Name: KES



Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.165000	---	32.55	66.00	33.45	1000.0	9.000	N	19.5
0.165000	49.18	---	79.00	29.82	1000.0	9.000	N	19.5
0.330000	---	32.20	66.00	33.80	1000.0	9.000	N	19.5
0.330000	41.51	---	79.00	37.49	1000.0	9.000	N	19.5
3.005000	---	40.60	60.00	19.40	1000.0	9.000	N	19.7
3.005000	45.53	---	73.00	27.47	1000.0	9.000	N	19.7
3.065000	---	40.32	60.00	19.68	1000.0	9.000	N	19.7
3.065000	45.39	---	73.00	27.61	1000.0	9.000	N	19.7
8.305000	---	24.62	60.00	35.38	1000.0	9.000	N	20.0
8.305000	29.96	---	73.00	43.04	1000.0	9.000	N	20.0
10.985000	---	24.21	60.00	35.79	1000.0	9.000	N	20.0
10.985000	29.55	---	73.00	43.45	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.

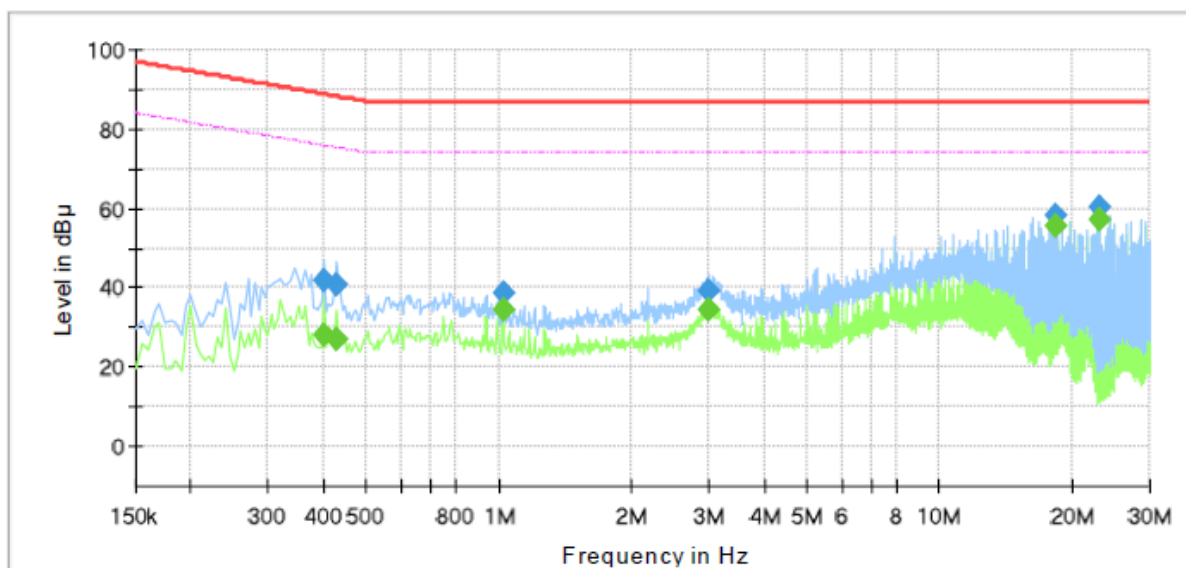
Corr. : Correction values (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

**Conducted Emissions at Telecommunication Ports**

■ mode 1

[100 Mbps]

Test Description: Telecommunication Emission
Job No.: KES-EM252079
Mode : Mode 1
Speed : 100 Mbps
Operator Name: KES

**Final_Result**

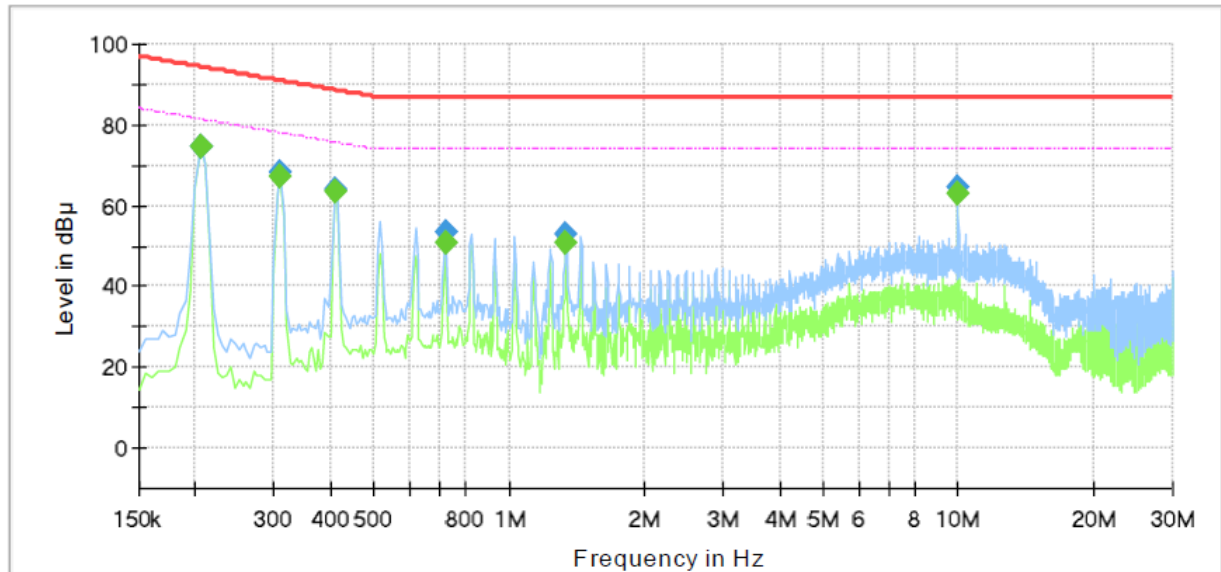
Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.400000	---	28.12	75.85	47.73	1000.0	9.000	Single Line	19.5
0.400000	42.09	---	88.85	46.76	1000.0	9.000	Single Line	19.5
0.430000	---	26.79	75.25	48.46	1000.0	9.000	Single Line	19.5
0.430000	40.55	---	88.25	47.70	1000.0	9.000	Single Line	19.5
1.025000	---	34.63	74.00	39.37	1000.0	9.000	Single Line	19.4
1.025000	38.61	---	87.00	48.39	1000.0	9.000	Single Line	19.4
3.000000	---	34.49	74.00	39.51	1000.0	9.000	Single Line	19.4
3.000000	39.33	---	87.00	47.67	1000.0	9.000	Single Line	19.4
18.305000	---	55.37	74.00	18.63	1000.0	9.000	Single Line	19.8
18.305000	58.02	---	87.00	28.98	1000.0	9.000	Single Line	19.8
23.130000	---	57.21	74.00	16.79	1000.0	9.000	Single Line	20.1
23.130000	60.19	---	87.00	26.81	1000.0	9.000	Single Line	20.1



■ mode 2

[100 Mbps]

Test Description: Telecommunication Emission
Job No.: KES-EM252079
Mode : Mode 2
Speed : 100 Mbps
Operator Name: KES



Final_Result

Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.205000	---	74.42	81.41	6.99	1000.0	9.000	Single Line	19.7
0.205000	74.48	---	94.41	19.93	1000.0	9.000	Single Line	19.7
0.310000	---	67.44	77.97	10.53	1000.0	9.000	Single Line	19.6
0.310000	68.26	---	90.97	22.71	1000.0	9.000	Single Line	19.6
0.410000	---	63.31	75.65	12.34	1000.0	9.000	Single Line	19.5
0.410000	64.19	---	88.65	24.46	1000.0	9.000	Single Line	19.5
0.720000	---	50.87	74.00	23.13	1000.0	9.000	Single Line	19.4
0.720000	53.66	---	87.00	33.34	1000.0	9.000	Single Line	19.4
1.340000	---	51.01	74.00	22.99	1000.0	9.000	Single Line	19.4
1.340000	52.93	---	87.00	34.07	1000.0	9.000	Single Line	19.4
10.000000	---	62.95	74.00	11.05	1000.0	9.000	Single Line	19.6
10.000000	64.62	---	87.00	22.38	1000.0	9.000	Single Line	19.6

◆ Calculation

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

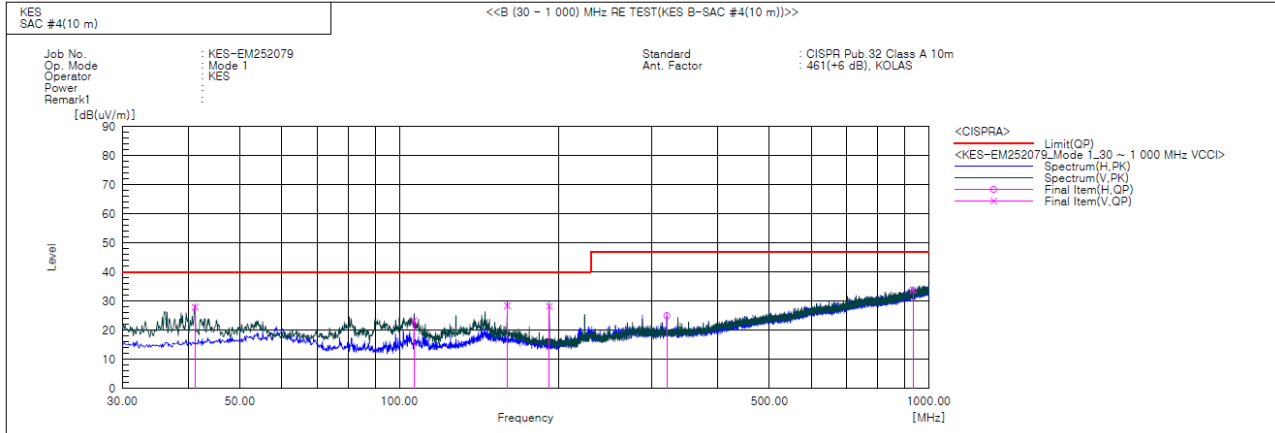
QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

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

**Radiated Electric Field Emissions(Below 1 GHz)**

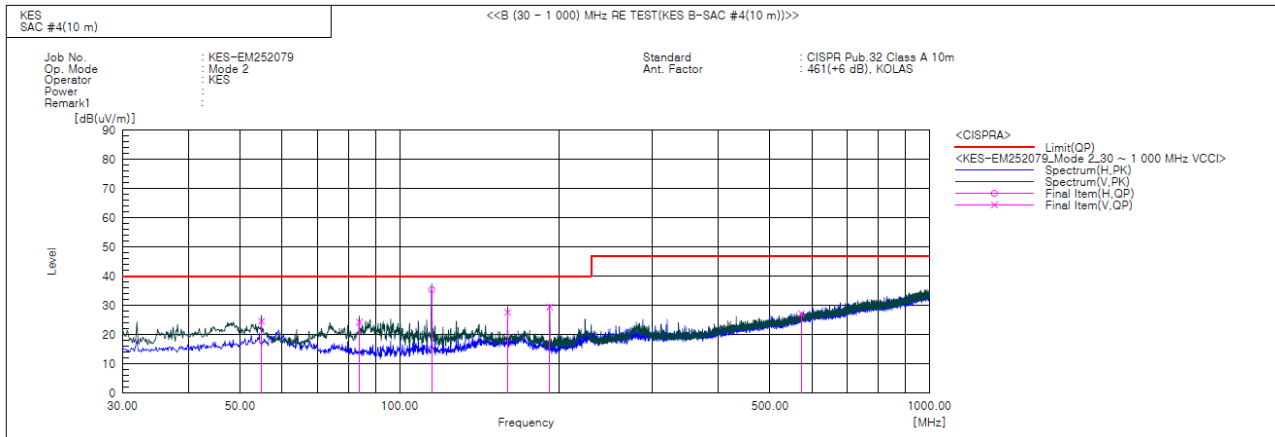
■ mode 1

**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	41.155	V	49.6	-21.7	27.9	40.0	12.1	142.0	330.0	
2	106.630	V	47.2	-23.9	23.3	40.0	16.7	100.0	199.0	
3	159.980	V	47.8	-19.4	28.4	40.0	11.6	113.0	263.0	
4	191.990	V	49.9	-21.7	28.2	40.0	11.8	160.0	192.0	
5	320.030	H	41.3	-16.3	25.0	47.0	22.0	285.0	23.0	
6	933.676	V	34.7	-0.9	33.8	47.0	13.2	150.0	258.0	



mode 2



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(μV)]	c.f [dB(1/m)]	Result QP [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	54.856	V	45.6	-21.0	24.6	40.0	15.4	153.0	145.0	
2	83.956	V	50.3	-26.0	24.3	40.0	15.7	150.0	190.0	
3	114.996	H	58.3	-22.9	35.4	40.0	4.6	400.0	219.0	
4	159.980	V	47.0	-19.4	27.6	40.0	12.4	128.0	247.0	
5	191.990	V	51.2	-21.7	29.5	40.0	10.5	118.0	190.0	
6	572.715	V	35.2	-8.0	27.2	47.0	19.8	100.0	190.0	

◆ Calculation

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

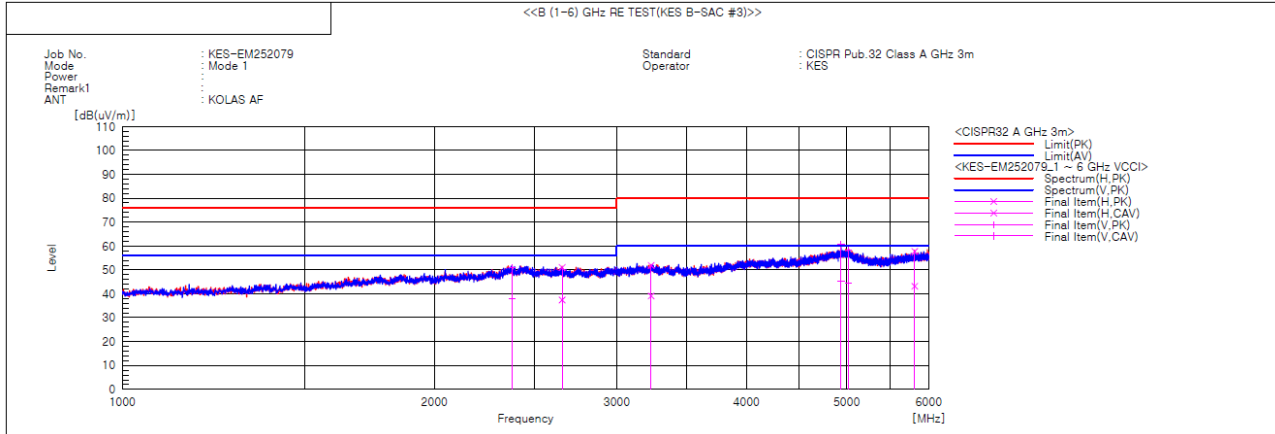
Margin(QP)[dB] = Limit[dB(μV/m)] - Result(QP) [dB(μV/m)]

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)**

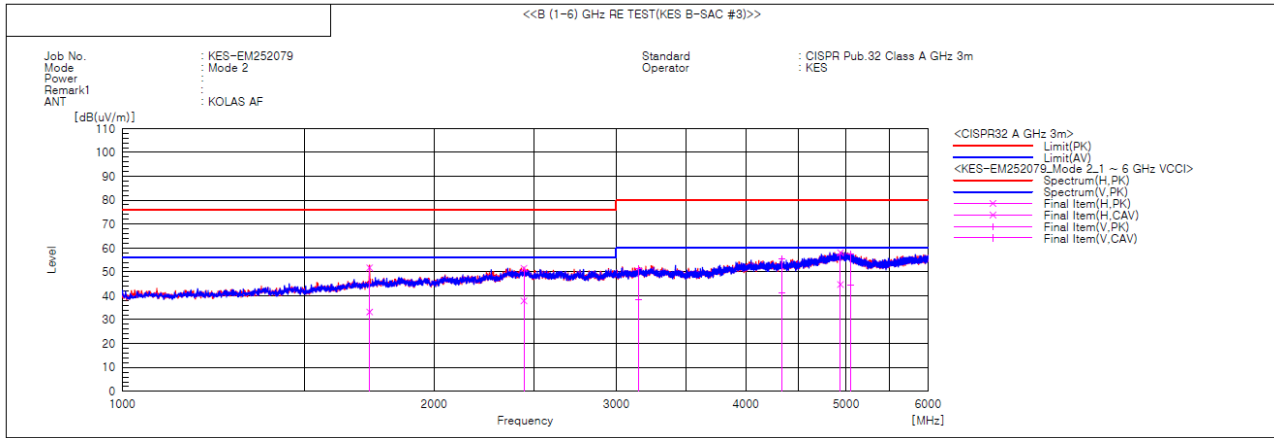
■ mode 1

**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	2376.875	V	43.4	30.2	7.7	51.1	37.9	76.0	56.0	24.9	18.1	100.0	101.2	
2	2656.250	H	43.1	29.5	7.9	51.0	37.4	76.0	56.0	25.0	18.6	100.0	301.5	
3	3236.875	H	42.5	29.7	9.4	51.9	39.1	80.0	60.0	28.1	20.9	100.0	237.0	
4	4938.125	V	43.0	27.5	17.6	60.6	45.1	80.0	60.0	19.4	14.9	100.0	290.1	
5	5016.875	V	40.5	26.9	17.7	58.2	44.6	80.0	60.0	21.8	15.4	100.0	284.3	
6	5814.375	H	40.9	26.3	16.9	57.8	43.2	80.0	60.0	22.2	16.8	100.0	70.1	



■ mode 2



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	1733.125	H	48.5	30.0	3.2	51.7	33.2	76.0	56.0	24.3	22.8	100.0	89.2	
2	2442.500	H	43.7	30.1	7.8	51.5	37.9	76.0	56.0	24.5	18.1	100.0	56.5	
3	3151.250	V	42.0	29.1	9.2	51.2	38.3	80.0	60.0	28.8	21.7	100.0	133.5	
4	4335.625	V	41.6	27.3	13.8	55.4	41.1	80.0	60.0	24.6	18.9	100.0	66.0	
5	4938.125	H	40.4	27.1	17.6	58.0	44.7	80.0	60.0	22.0	15.3	100.0	234.3	
6	5051.875	V	40.2	27.1	17.4	57.6	44.5	80.0	60.0	22.4	15.5	100.0	249.0	

◆ 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

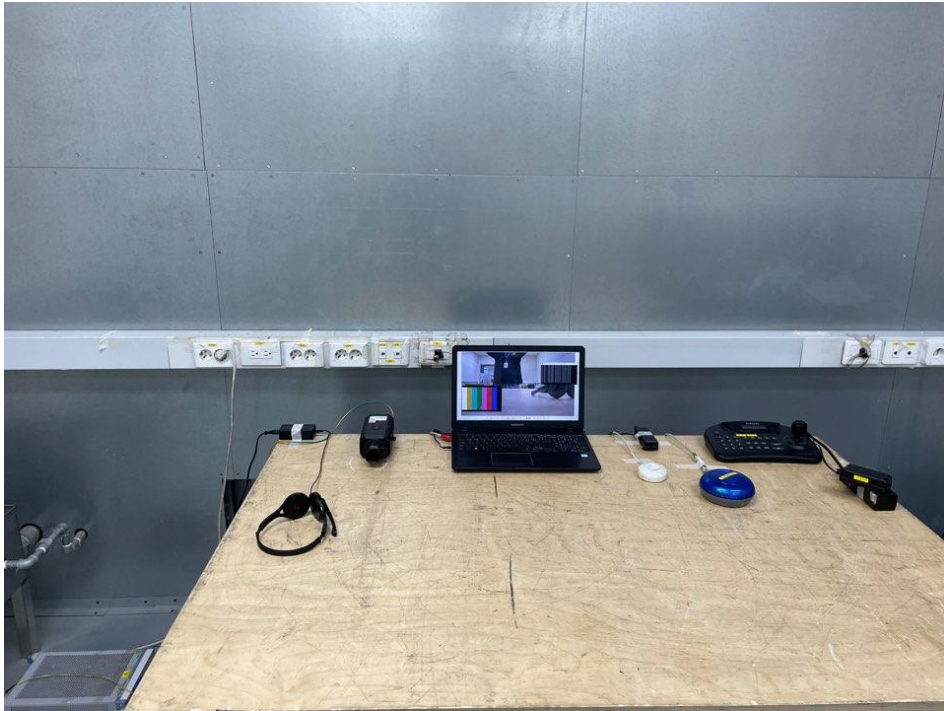
Limit(PK/CAV) : Limit value, c.f : (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value



Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports

■ mode 1





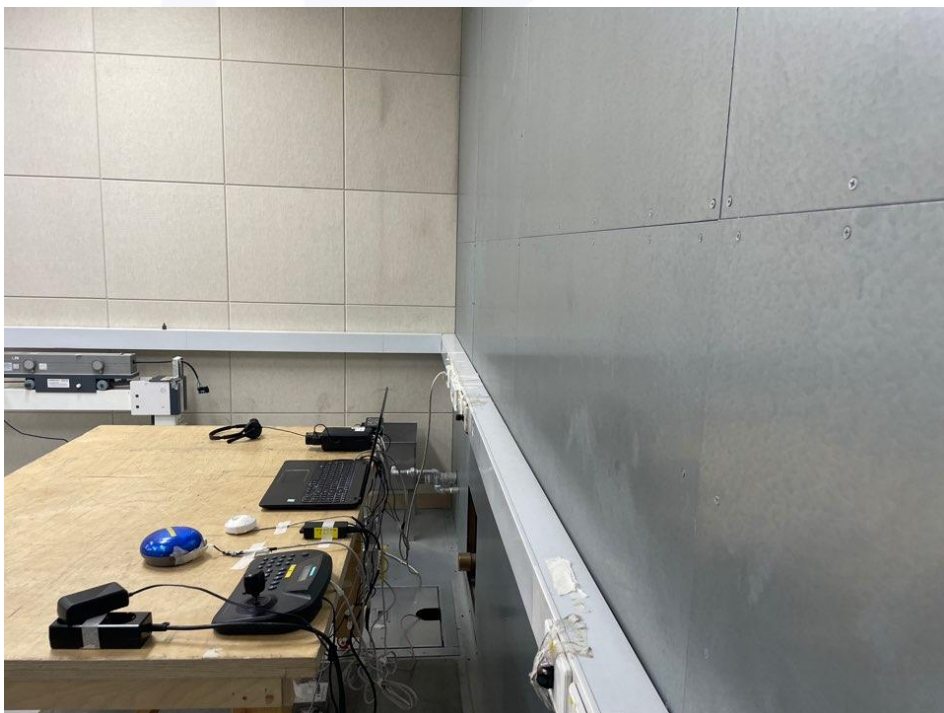
Conducted Emissions at Telecommunication Ports

■ mode 1





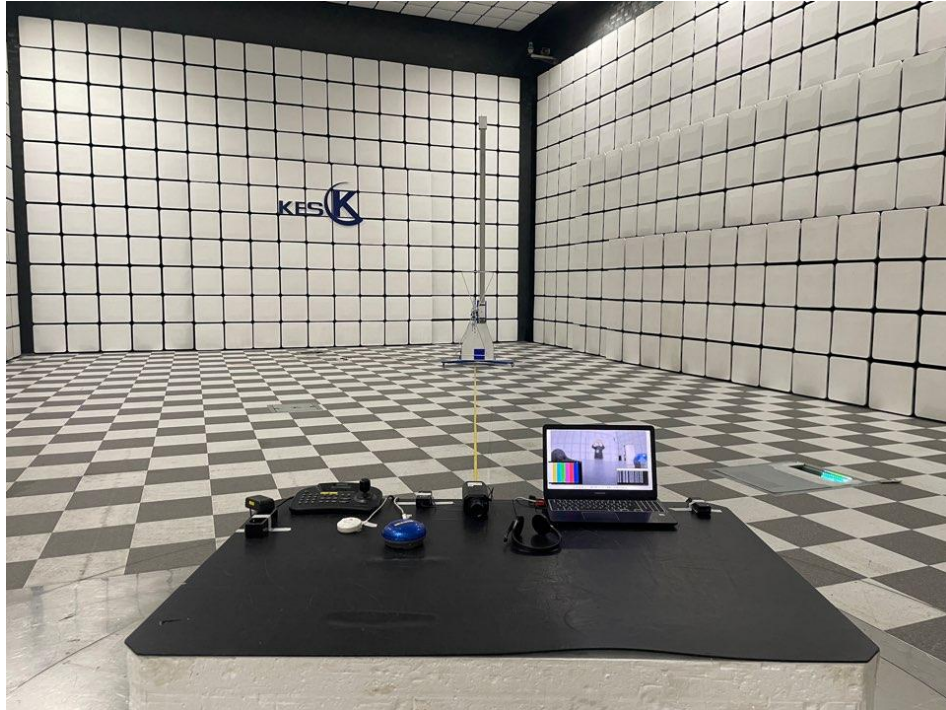
■ mode 2





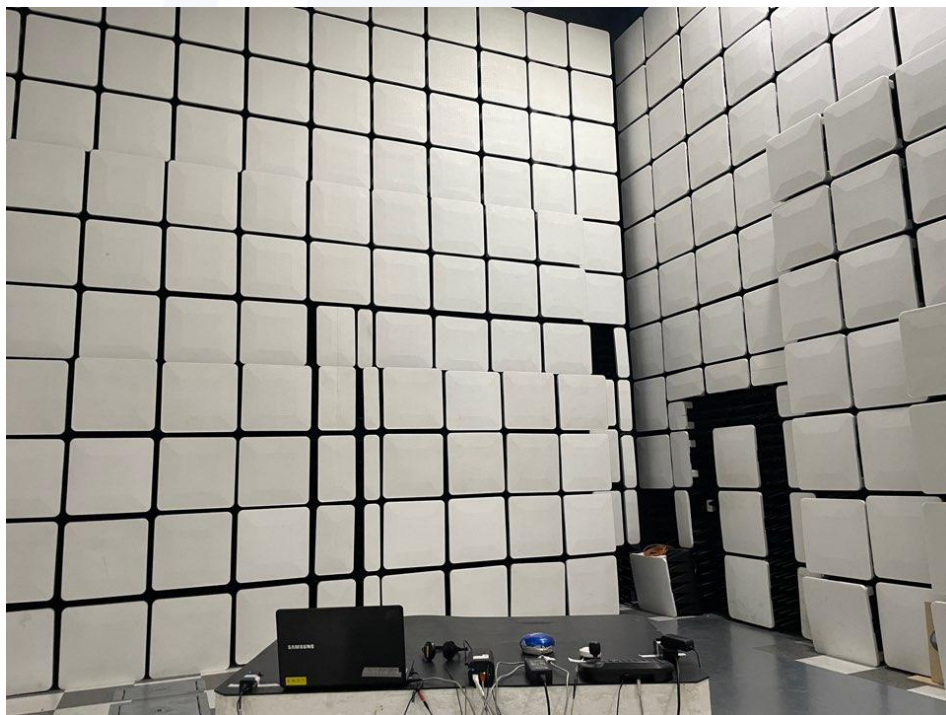
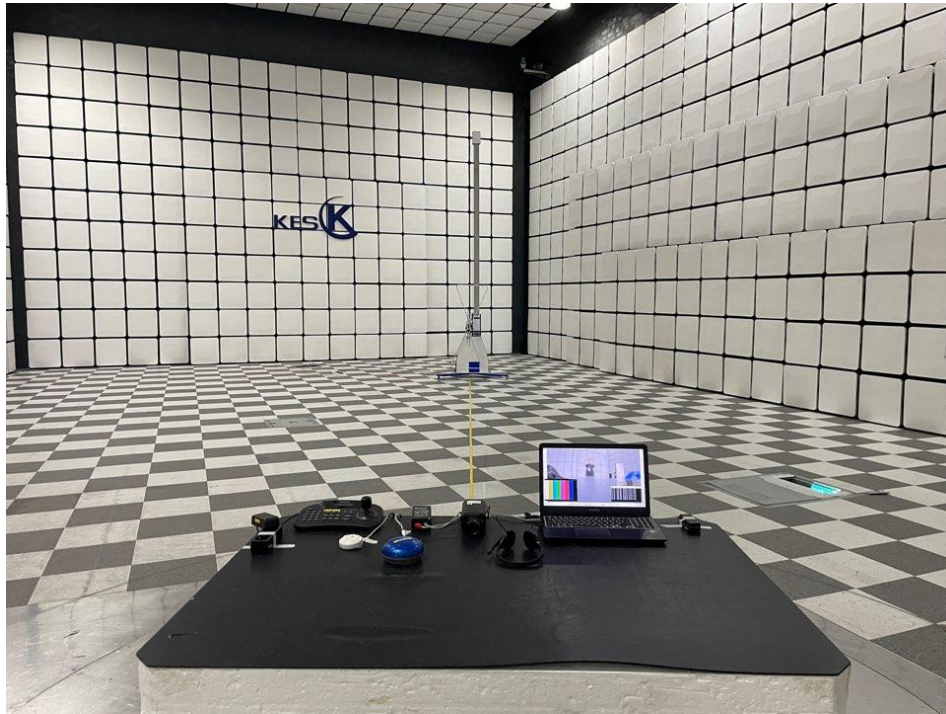
Radiated Electric Field Emissions(Below 1 GHz)

■ mode 1





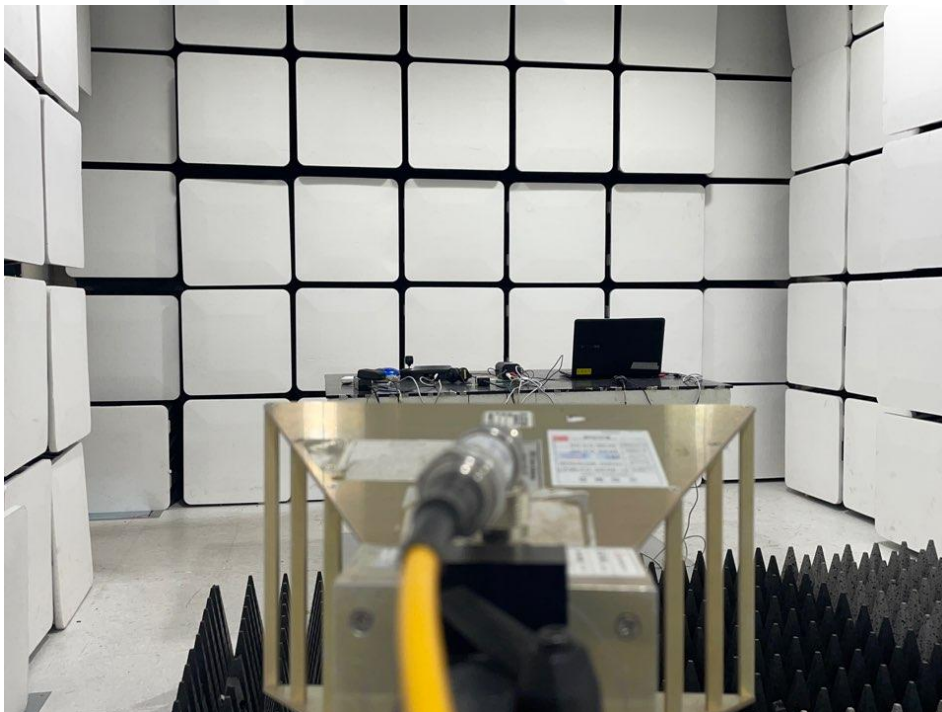
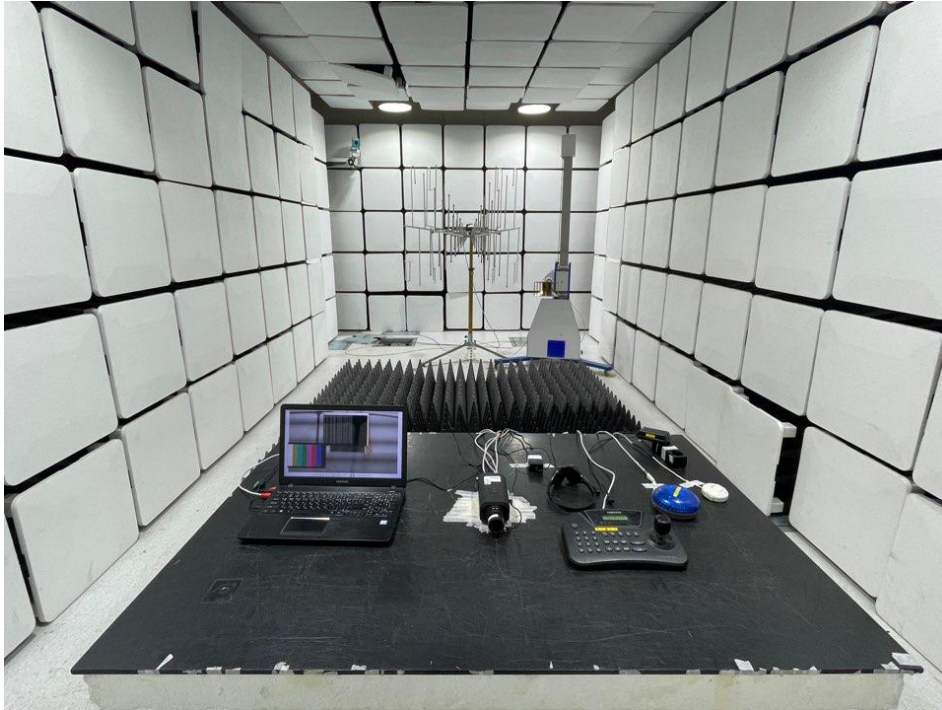
■ mode 2





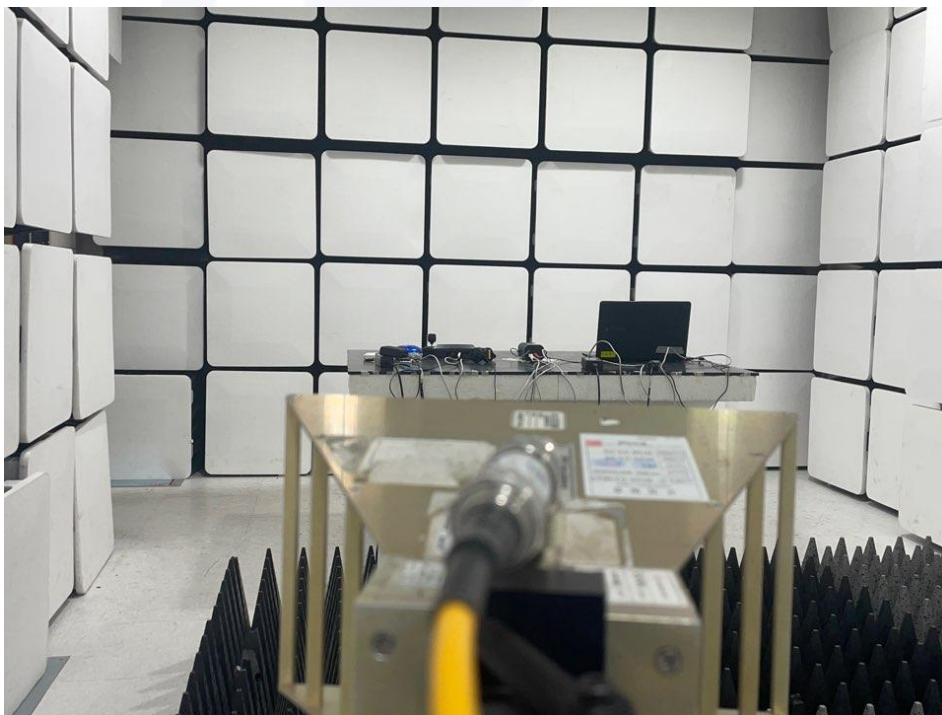
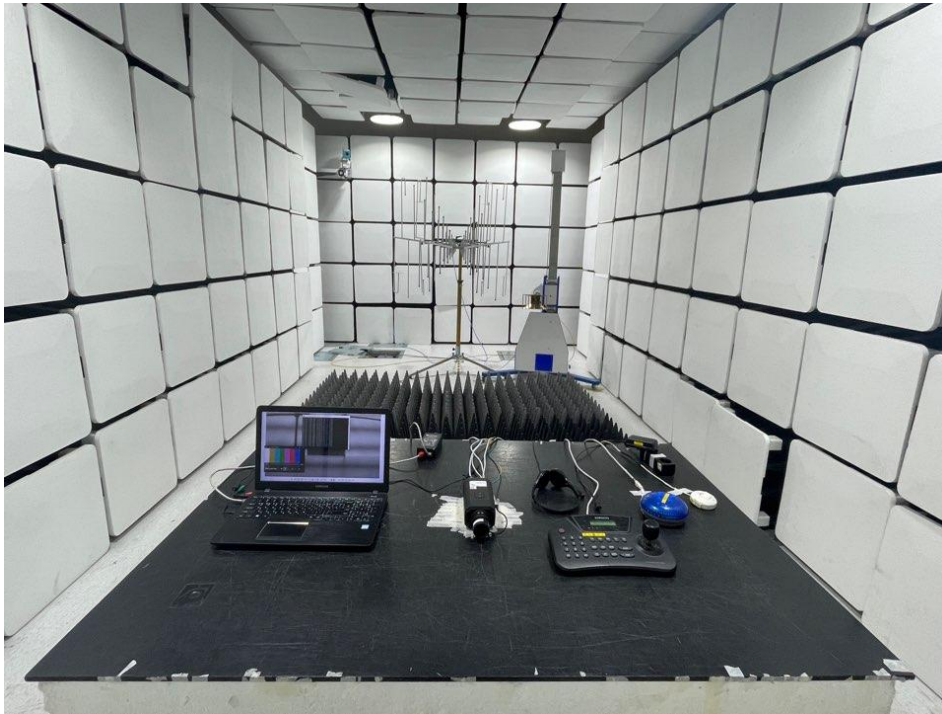
Radiated Electric Field Emissions(Above 1 GHz)

■ mode 1





■ mode 2





EUT External Photographs

(Top)



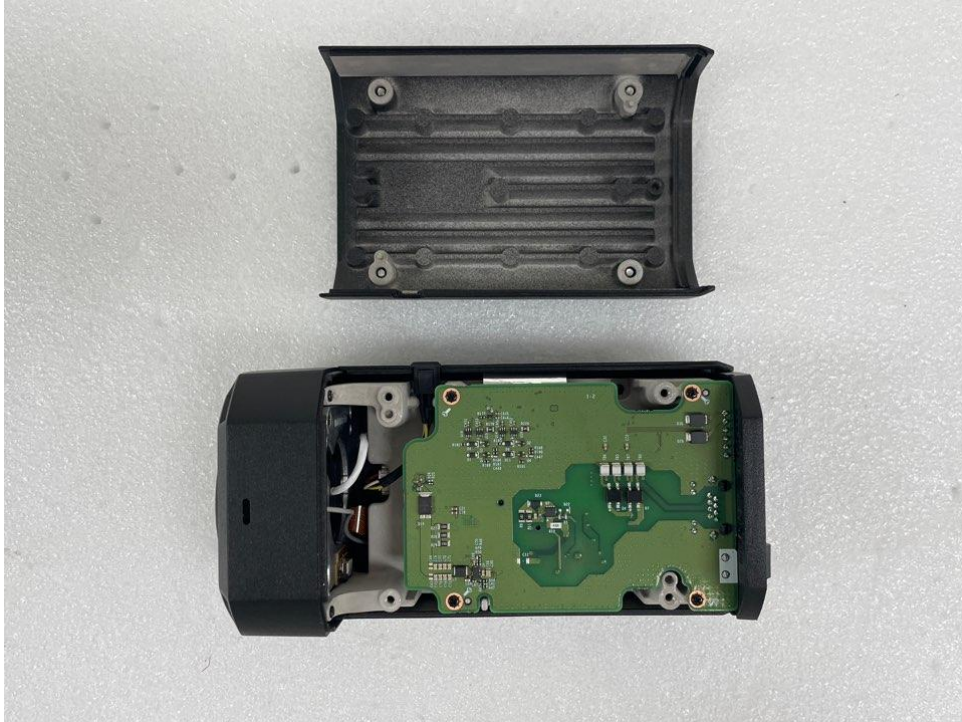
(Bottom)





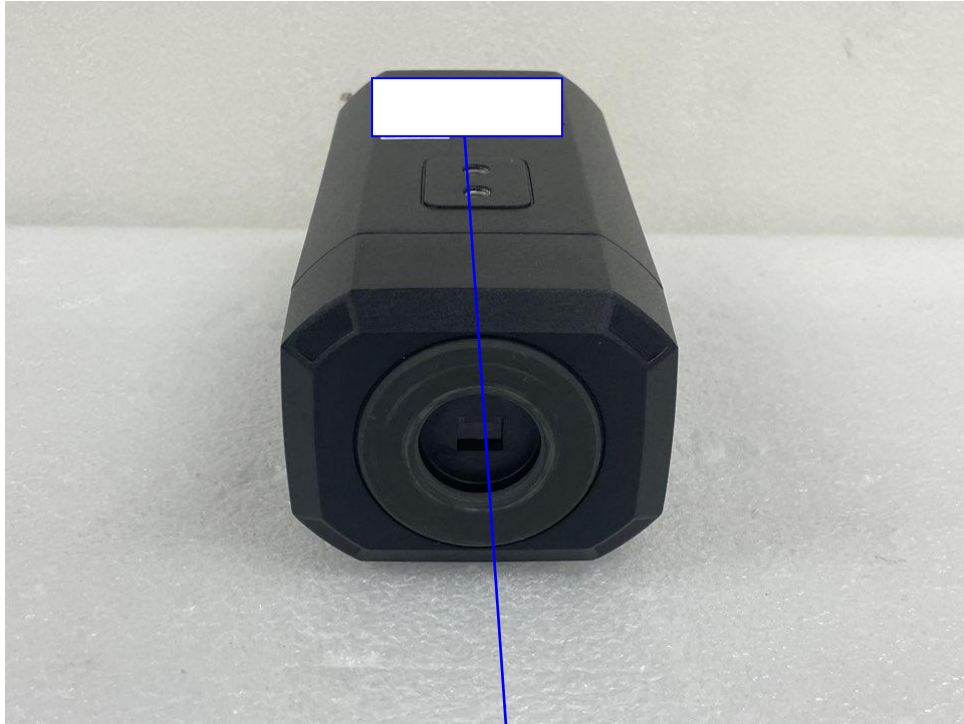
EUT Internal Photographs

(Internal View)





Label Photographs



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The End.