

**KES Co., Ltd.**

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Report No.:

KES-EM-22T0185-R1

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EMC TEST REPORT For VCCI

Test Report No. : KES-EM-22T0185-R1
Date of Issue : Feb. 24, 2023
Product name : CCTV CAMERA
Model/Type No. : HCD-6070R
Variant Model : SCD-6085R, HCD-6080R
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 : Jan. 25, 2022
Test date : Jan. 27, 2022 ~ Jan. 28, 2022
Test Results : ☒ **In Compliance** ☐ **Not in Compliance**

Tested by

Dae Soo, Kim
EMC Test Engineer

Reviewed by

Dong-Hun, Jang
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
Feb. 09, 2022	KES-EM-22T0185	Issued
Feb. 24, 2023	KES-EM-22T0185-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	1,945(H) x 1,109(V) 2.16M pixels
Effective Pixels	1,945(H) x 1,097(V) 2.13M pixels
Scanning System	Progressive Scan
Min. Illumination	Color : 0.2Lux (F1.4, 50IRE); 0.11Lux (F1.4, 30IRE) B/W : 0Lux(IR LED on)
S / N Ratio	52dB (AGC off, Weight on)
Video Output	BNC(AHD / TVI / CVI / CVBS Selectable)
Resolution	1920 x 1080
Max. Framerate	30fps @1080p 25fps @1080p
Pan / Tilt / Rotate	
Pan / Tilt / Rotate Range	0° ~ 350° / 0° ~ 67° / 0° ~ 355°
Lens Type	
Focal Length (Zoom Ratio)	2.8 ~ 12mm (4.3x) varifocal
Max. Aperture Ratio	F1.4
Angular Field of View	H : 103.8°(Wide) ~ 32.4°(Tele) / V : 53.7°(Wide) ~ 18.4°(Tele) D : 121.9°(Wide) ~ 37.1°(Tele)
Min. Object Distance	0.5m (1.64ft)
Focus Control	Manual
Lens Type	DC Auto Iris
Mount Type	Board-in type
Auto Back Focus(ABF)	-
Operational	
IR LED	
Viewable length	20m (65.62ft)
On Screen Display	Multi-language Support(16) English, Japanese, Spanish, French, Portuguese, Korean, German, Italian, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish
Camera Title	Off / On (Displayed 15 characters)
Day & Night	Auto (ICR) / Color / B/W
Backlight Compensation	Off / User BLC / HLC
Wide Dynamic Range	120dB
Contrast Enhancement	-
Digital Noise Reduction	SSNR4 (Off / On)
Defog	AUTO / MANUAL / OFF
Digital Image Stabilization	Not support
Motion Detection	Off / On(4 zones)
Privacy Masking	Off / On (4zones rectangle)
Gain Control	Off / Low / Middle / High / Very High
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,800K° ~ 10,500K°)
LDC (Lens Distortion Correction)	Not support
Electronic Shutter Speed	1sec~ 1/12,000sec
Digital Zoom	Not support
Reverse	Off / H-Rev / V-Rev / HV-Rev
Profile	Basic, Day & Night, Backlight, ITS, Indoor, User
Intelligent Video Analytics	Not support
Alarm	MD output 1
Remote control interface	Coaxial
Protocol	NTSC/PAL : Pelco-C (Coaxitron) AHD : ACP(AHD Coax Protocol)
Video Transmission Distance	500m(5C2V Coaxial Cable)
Environmental	
Operating Temperature / Humidity	-10°C ~ +55°C (+14°F ~ +131°F) / Less than 90% RH
Ingress Protection	-
Vandal Resistance	-
Electrical	
Input Voltage/Current	Dual (24VAC±10% & 12VDC±10%)
Power Consumption	4.2W
Mechanical	
Color / Material	Ivory / Plastic
Dimension (WxHxD)	119.8*119.8*98.5mm
Weight	360G

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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 100 V, 50 Hz

1.2 Variant Model Differences

Add derivative model for vendor management.

1.3 Device Modifications

Not applicable

1.4 Equipment Under Test

Description	Model Number	Serial Number	Manufacturer	Remarks
CCTV CAMERA	HCD-6070R	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT
AC-DC ADAPTOR	DAD12050DKA	-	Dream Electronic Co.,	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
AC ADAPTOR	-	-	-	-
DVR	SDH- C85105BFN/UC	180100045180116 0006	HANWHA VISION VIETNAM COMPANY LIMITED	-
DVR ADAPTOR	PA-1051-0	L21125029645	Dongguang Lite Power 2nd Planet	-
ALARM	SIP-1201DD D0	-	SAMSUNG TECHWIN CO., LTD.	-
MONITOR	SMT-2232	C95V67VF900025 B	Weihai Daewoo Electronics Co., Ltd.	-
MOUSE	AA-SM4PCPB	-	Acrox Technologies Co., Ltd.	-



1.6 External I/O Cabling

■ AC Mode

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
CCTV CAMERA (EUT)	AC IN	AC ADAPTOR	AC OUT	2.0	U
	Alarm OUT	ALARM	Alarm IN	3.0	U
	BNC	DVR	BNC	3.0	S
DVR	USB	MOUSE	USB	1.8	U
	VGA	MONITOR	VGA	1.6	S

* Unshielded=U, Shielded=S

■ DC Mode

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
CCTV CAMERA (EUT)	DC IN	AC-DC ADAPTOR (EUT)	DC OUT	2.0	U
	Alarm OUT	ALARM	Alarm IN	3.0	U
	BNC	DVR	BNC	3.0	S
DVR	USB	MOUSE	USB	1.8	U
	VGA	MONITOR	VGA	1.6	S

* Unshielded=U, Shielded=S

1.7 EUT Operating Mode(s)

■ AC, DC Mode

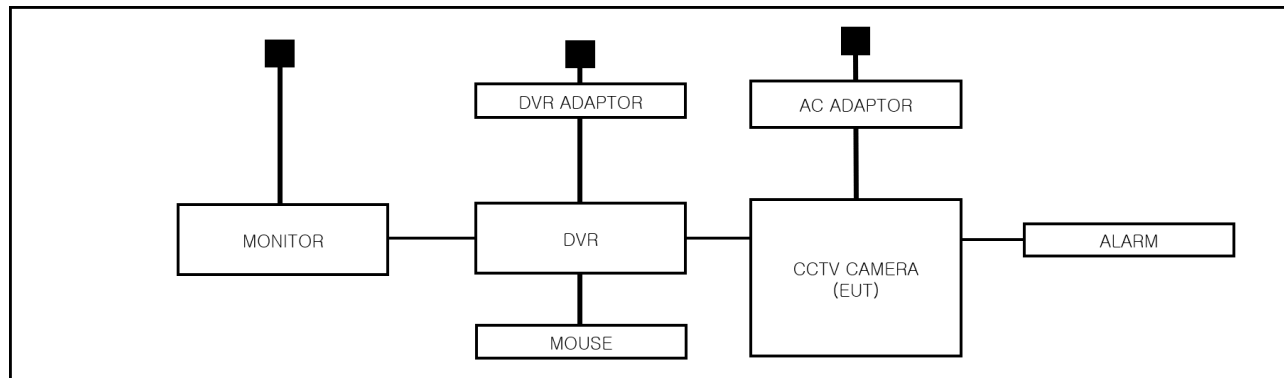
Test mode	operating
OP	The test was performed while checking whether the camera image was normally output on the monitor connected to the DVR.

EUT Test operating S/W		
Name	Version	Manufacture Company
-	-	-

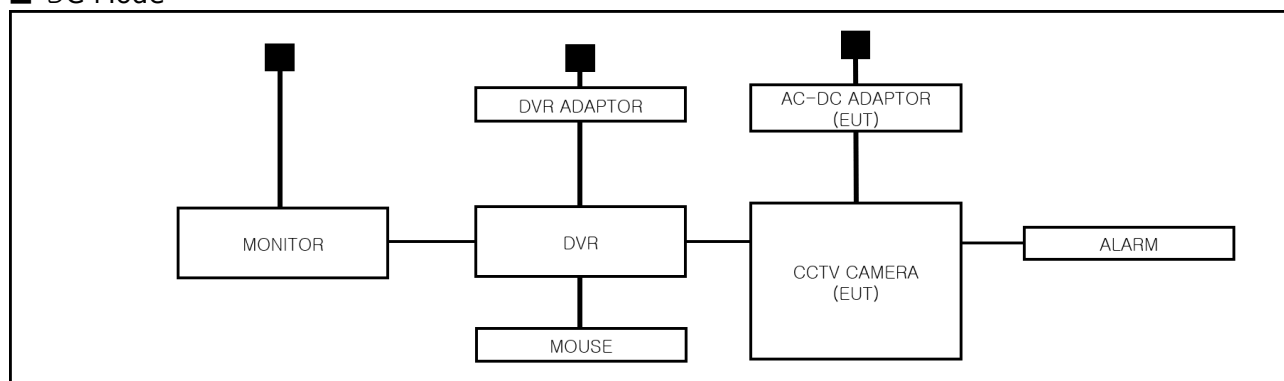
1.8 Configuration

■ AC Main
 □ DC Main

■ AC Mode



■ DC Mode



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:

☒ **VCCI-CISPR 32:2016**

☒ Class A

☐ Class B

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2.1 Conducted Emissions Mains Power Ports

Test Date

Jan. 27, 2022

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	12, 28, 2022
☒	LISN	ENV216	R & S	101787	12, 27, 2022
☒	LISN	ESH2-Z5	R & S	100450	12, 27, 2022
☒	PULSE LIMITER	ESH3-Z2	R & S	101915	12, 27, 2022

Test Conditions

Temperature: (22,9 ± 0,0) °C

Relative Humidity: (42,4 ± 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 Conducted Emissions at Telecommunication 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	12, 28, 2022
☐	LISN	ENV216	R & S	101787	12, 27, 2022
☐	LISN	ESH2-Z5	R & S	100450	12, 27, 2022
☐	PULSE LIMITER	ESH3-Z2	R & S	101915	12, 27, 2022
☐	8-WIRE ISN CAT3,5	ENY81	R & S	100174	12, 28, 2022
☐	CDN	CDNS502A	TESEQ	40431	12, 27, 2022

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

Does not apply because there is no signal line ports.



2.3 Radiated Electric Field Emissions(Below 1 GHz)

Test Date

Jan. 27, 2022

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, 24, 2022
☒	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	12, 08, 2022
☒	ATTENUATOR	8491A	HP	32173	03, 10, 2022

Test Conditions

Temperature: (23,0 ± 0,2) °C

Relative Humidity: (43,4 ± 0,0) % 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

Jan. 28, 2022

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, 16, 2022
☒	PREAMPLIFIER	8449B	HP	3008A00538	06, 21, 2022

Test Conditions

Temperature: (22,6 ± 0,0) °C

Relative Humidity: (42,8 ± 0,2) % 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.

APPENDIX A – TEST DATA

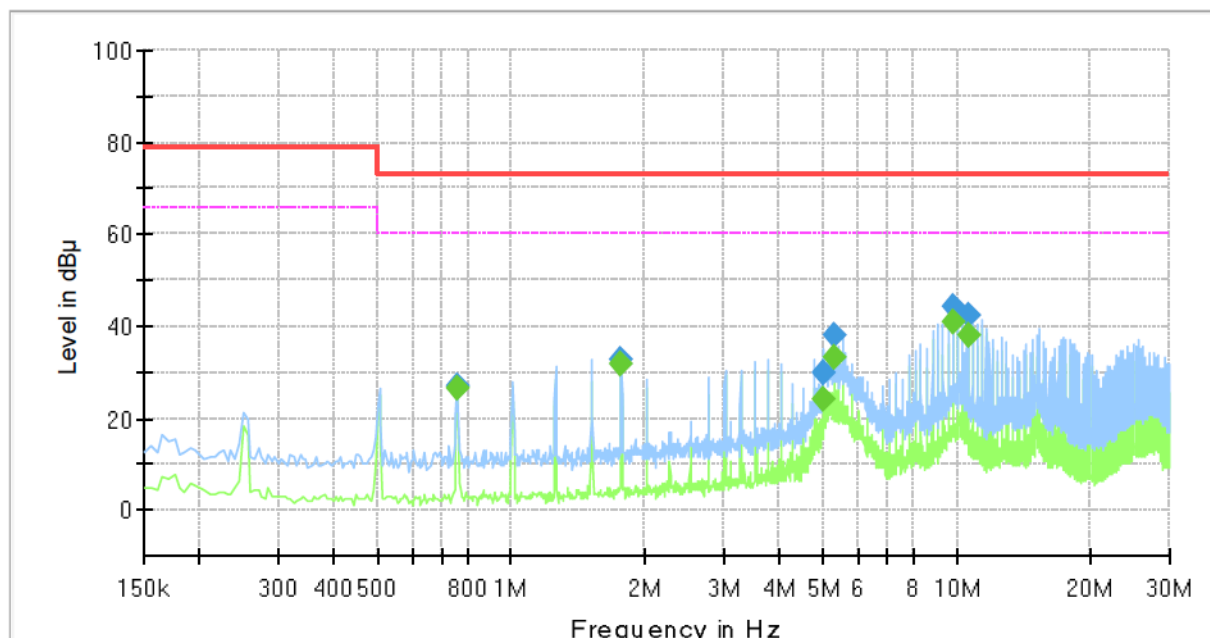
Conducted Emissions at Mains Power Ports

■ AC Mode

HOT LINE

Common Information

Test Description:	Conducted Emission
Model No.:	HCD-6070R
Phase:	H
Mode:	AC
Operator Name:	KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.755000	26.76	---	73.00	46.24	1000.0	9.000	L1	20.0
0.755000	---	26.63	60.00	33.37	1000.0	9.000	L1	20.0
1.765000	32.91	---	73.00	40.09	1000.0	9.000	L1	20.3
1.765000	---	31.96	60.00	28.04	1000.0	9.000	L1	20.3
5.035000	29.74	---	73.00	43.26	1000.0	9.000	L1	19.7
5.035000	---	23.88	60.00	36.12	1000.0	9.000	L1	19.7
5.290000	38.06	---	73.00	34.94	1000.0	9.000	L1	19.6
5.290000	---	33.12	60.00	26.88	1000.0	9.000	L1	19.6
9.830000	---	40.74	60.00	19.26	1000.0	9.000	L1	19.9
9.830000	44.44	---	73.00	28.56	1000.0	9.000	L1	19.9
10.585000	---	38.12	60.00	21.88	1000.0	9.000	L1	20.0
10.585000	42.20	---	73.00	30.80	1000.0	9.000	L1	20.0

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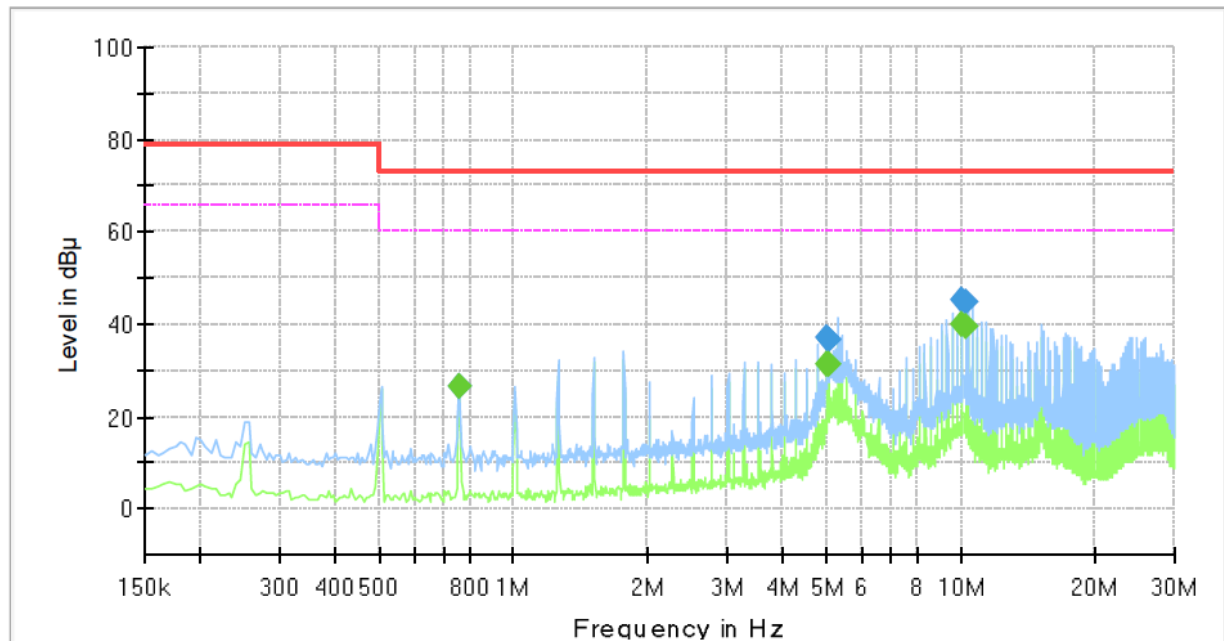
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NEUTRAL LINE

Common Information

Test Description: Conducted Emission
Model No.: HCD-6070R
Phase: N
Mode: AC
Operator Name: KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.755000	---	26.52	60.00	33.48	1000.0	9.000	N	20.0
0.755000	26.66	---	73.00	46.34	1000.0	9.000	N	20.0
5.040000	---	31.50	60.00	28.50	1000.0	9.000	N	19.7
5.040000	37.04	---	73.00	35.96	1000.0	9.000	N	19.7
5.045000	---	31.32	60.00	28.68	1000.0	9.000	N	19.7
5.045000	36.65	---	73.00	36.35	1000.0	9.000	N	19.7
10.085000	---	40.08	60.00	19.92	1000.0	9.000	N	19.9
10.085000	45.28	---	73.00	27.72	1000.0	9.000	N	19.9
10.335000	---	39.41	60.00	20.59	1000.0	9.000	N	19.9
10.335000	44.60	---	73.00	28.40	1000.0	9.000	N	19.9

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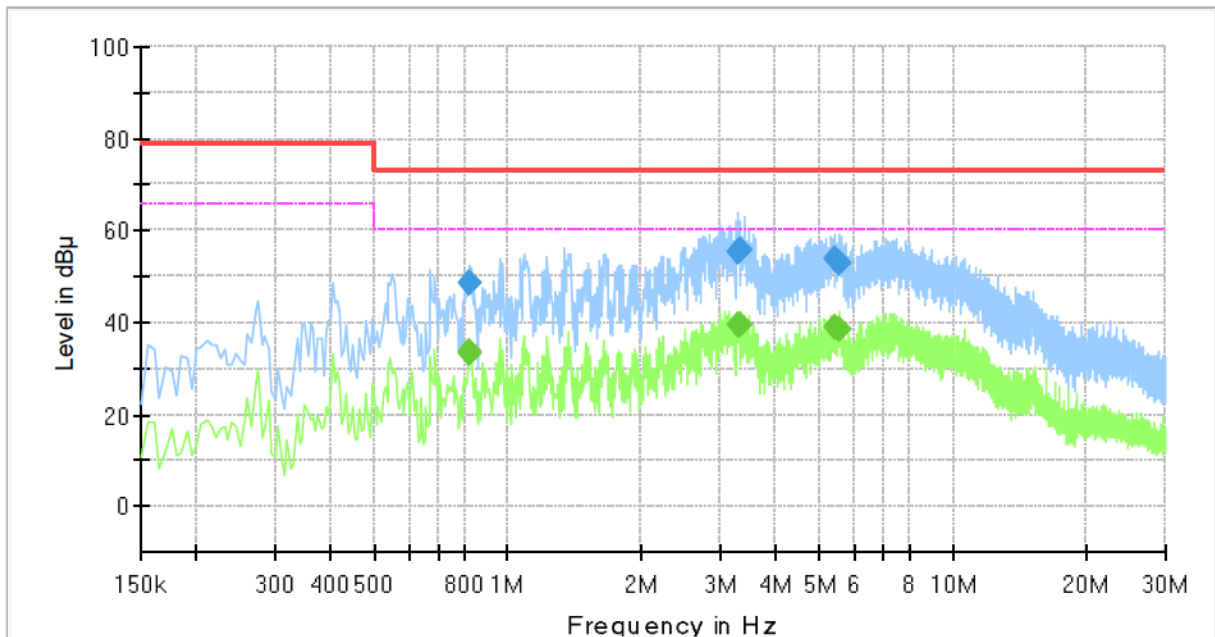
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■ DC Mode

HOT LINE

Common Information

Test Description: Conducted Emission
Model No.: HCD-6070R
Phase: H
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)
0.815000	---	33.06	60.00	26.94	1000.0	9.000	L1	20.0
0.815000	48.39	---	73.00	24.61	1000.0	9.000	L1	20.0
0.820000	---	33.73	60.00	26.27	1000.0	9.000	L1	20.0
0.820000	48.47	---	73.00	24.53	1000.0	9.000	L1	20.0
3.280000	---	39.57	60.00	20.43	1000.0	9.000	L1	20.1
3.280000	55.51	---	73.00	17.49	1000.0	9.000	L1	20.1
3.340000	---	39.40	60.00	20.60	1000.0	9.000	L1	20.1
3.340000	55.58	---	73.00	17.42	1000.0	9.000	L1	20.1
5.410000	---	38.85	60.00	21.15	1000.0	9.000	L1	19.6
5.410000	53.78	---	73.00	19.22	1000.0	9.000	L1	19.6
5.555000	---	38.66	60.00	21.34	1000.0	9.000	L1	19.6
5.555000	52.72	---	73.00	20.28	1000.0	9.000	L1	19.6

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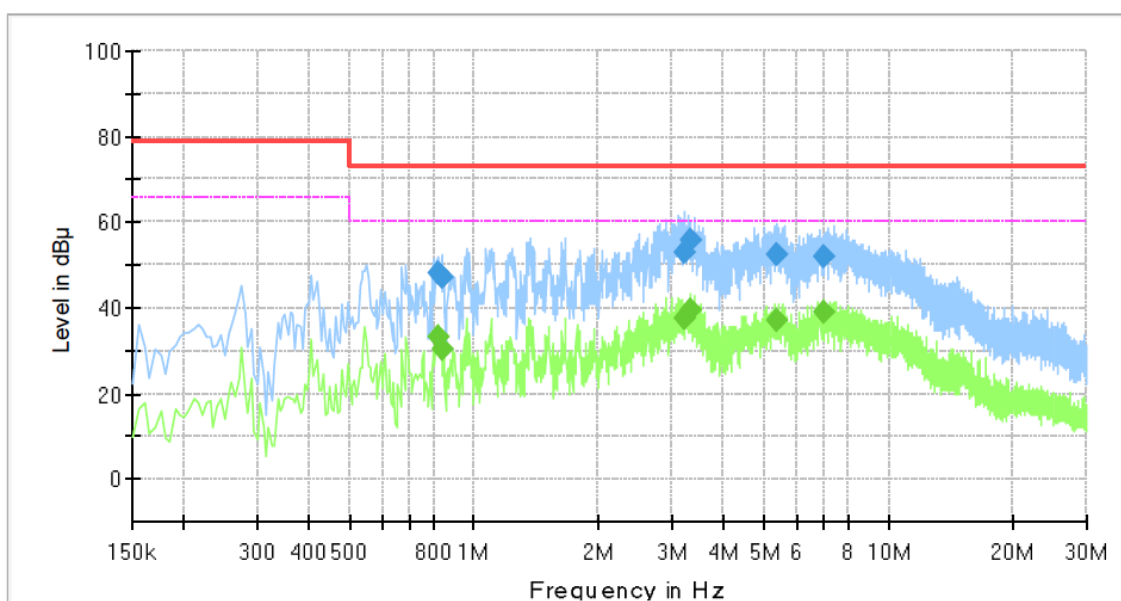
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NEUTRAL LINE

Common Information

Test Description:	Conducted Emission
Model No.:	HCD-6070R
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)
0.815000	---	33.02	60.00	26.98	1000.0	9.000	N	20.0
0.815000	48.28	---	73.00	24.72	1000.0	9.000	N	20.0
0.835000	---	30.11	60.00	29.89	1000.0	9.000	N	20.1
0.835000	47.35	---	73.00	25.65	1000.0	9.000	N	20.1
3.210000	---	37.50	60.00	22.50	1000.0	9.000	N	20.1
3.210000	52.92	---	73.00	20.08	1000.0	9.000	N	20.1
3.325000	---	39.64	60.00	20.36	1000.0	9.000	N	20.1
3.325000	55.58	---	73.00	17.42	1000.0	9.000	N	20.1
5.380000	---	37.17	60.00	22.83	1000.0	9.000	N	19.6
5.380000	52.22	---	73.00	20.78	1000.0	9.000	N	19.6
6.945000	---	39.17	60.00	20.83	1000.0	9.000	N	19.5
6.945000	51.87	---	73.00	21.13	1000.0	9.000	N	19.5

◆ Calculation

$$\text{QuasiPeak [dBuV]} / \text{CAverage [dBuV]} = \text{Reading Value [dBuV]} + \text{Corr. [dB]}$$

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]

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 (ISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

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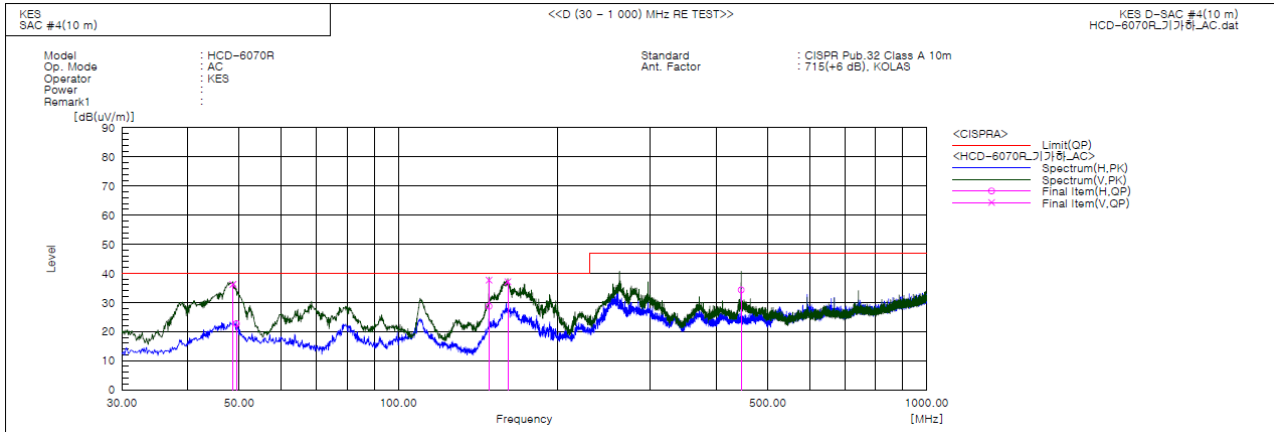
Report No.:

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Radiated Electric Field Emissions(Below 1 GHz)

■ AC Mode



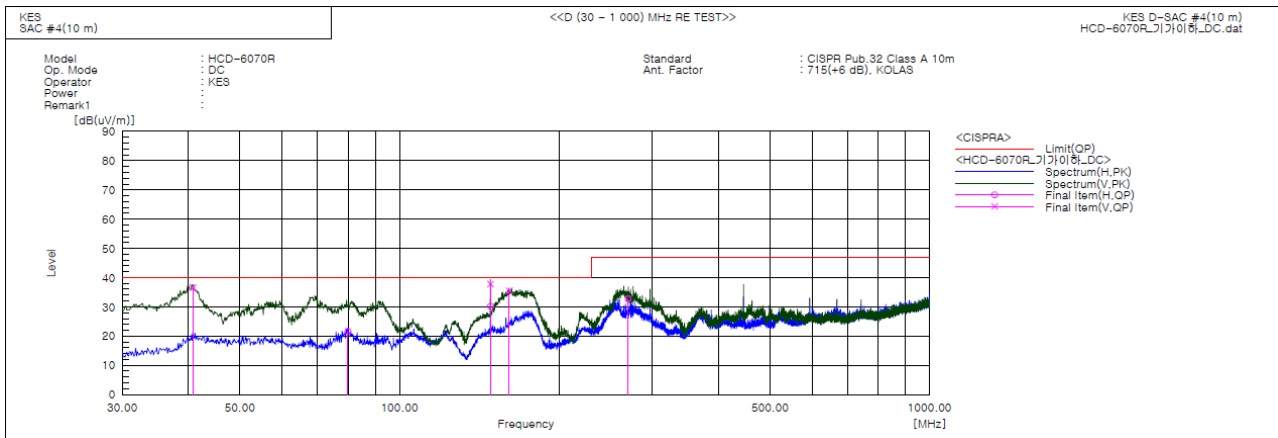
Final Result

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	48.673	V	57.1	-20.9	36.2	40.0	3.8	121.0	264.0	
2	49.400	H	43.6	-20.9	22.7	40.0	17.3	375.0	31.0	
3	148.461	V	62.9	-25.2	37.7	40.0	2.3	117.0	162.0	
4	148.461	H	53.9	-25.2	28.7	40.0	11.3	314.0	177.0	
5	161.193	V	61.7	-24.5	37.2	40.0	2.8	125.0	181.0	
6	445.524	H	47.3	-13.0	34.3	47.0	12.7	316.0	162.0	

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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	40.791	V	58.7	-22.1	36.6	40.0	3.4	112.0	311.0	
2	79.955	H	49.2	-27.5	21.7	40.0	18.3	394.0	354.0	
3	148.461	V	63.0	-25.2	37.8	40.0	2.2	105.0	202.0	
4	148.461	H	55.4	-25.2	30.2	40.0	9.8	356.0	126.0	
5	161.071	V	60.0	-24.5	35.5	40.0	4.5	121.0	183.0	
6	269.833	H	51.4	-18.7	32.7	47.0	14.3	289.0	27.0	

Calculation

Corrected Amplitude [dBuV] = Amplitude[dBuV] + Correction Factor [dB]

Corrected Amplitude : The Final Value, Amplitude : Reading Value,

Correction Factor : ANT FACTOR + Cable loss



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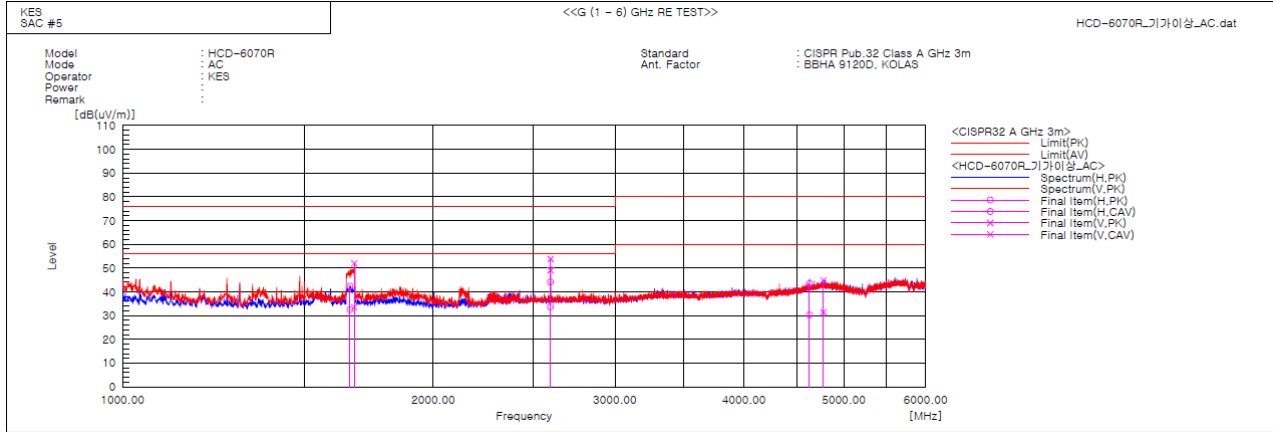
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Radiated Electric Field Emissions(Above 1 GHz)

■ AC 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	1661.252	H	47.1	37.2	-4.7	42.4	32.5	76.0	56.0	33.6	23.5	100.0	284.0	
2	1676.875	V	56.6	38.1	-4.6	52.0	33.5	76.0	56.0	24.0	22.5	100.0	235.1	
3	2597.513	H	45.3	34.8	-1.1	44.2	33.7	76.0	56.0	31.8	22.3	100.0	102.4	
4	2598.125	V	54.9	50.2	-1.1	53.8	49.1	76.0	56.0	22.2	6.9	100.0	198.6	
5	4631.257	H	39.0	25.8	4.5	43.5	30.3	80.0	60.0	36.5	29.7	100.0	247.0	
6	4776.250	V	39.7	26.3	5.1	44.8	31.4	80.0	60.0	35.2	28.6	100.0	54.8	

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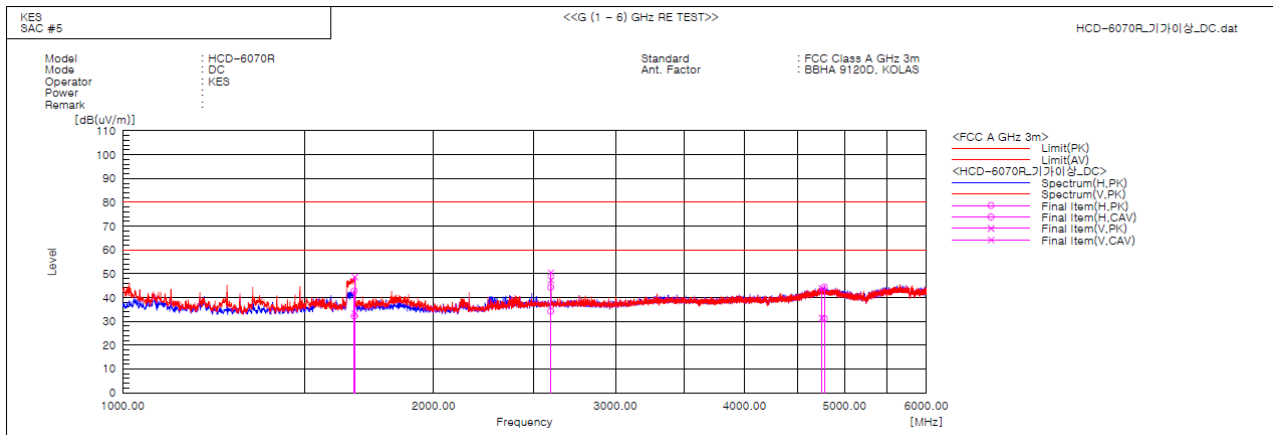
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DC Mode



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	1675.627	H	47.4	36.8	-4.6	42.8	32.2	80.0	60.0	37.2	27.8	100.0	266.0	
2	1678.122	V	53.2	37.9	-4.6	48.6	33.3	80.0	60.0	31.4	26.7	100.0	234.0	
3	2597.406	H	45.4	35.3	-1.1	44.3	34.2	80.0	60.0	35.7	25.8	100.0	116.0	
4	2598.128	V	51.6	48.4	-1.1	50.5	47.3	80.0	60.0	29.5	12.7	100.0	102.0	
5	4751.873	V	38.9	26.4	5.0	43.9	31.4	80.0	60.0	36.1	28.6	100.0	44.2	
6	4780.629	H	39.4	26.1	5.1	44.5	31.2	80.0	60.0	35.5	28.8	100.0	193.6	

Calculation

Result(PK/CAV) [dB(μ V/m)] = (Reading(PK/CAV)[dB(μ V)] + c.f[dB(1/m)])

Margin(PK/CAV)[dB] = Limit[dB(μ V/m)] - Result(PK/CAV) [dB(μ V/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

■ AC Mode



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■ DC Mode





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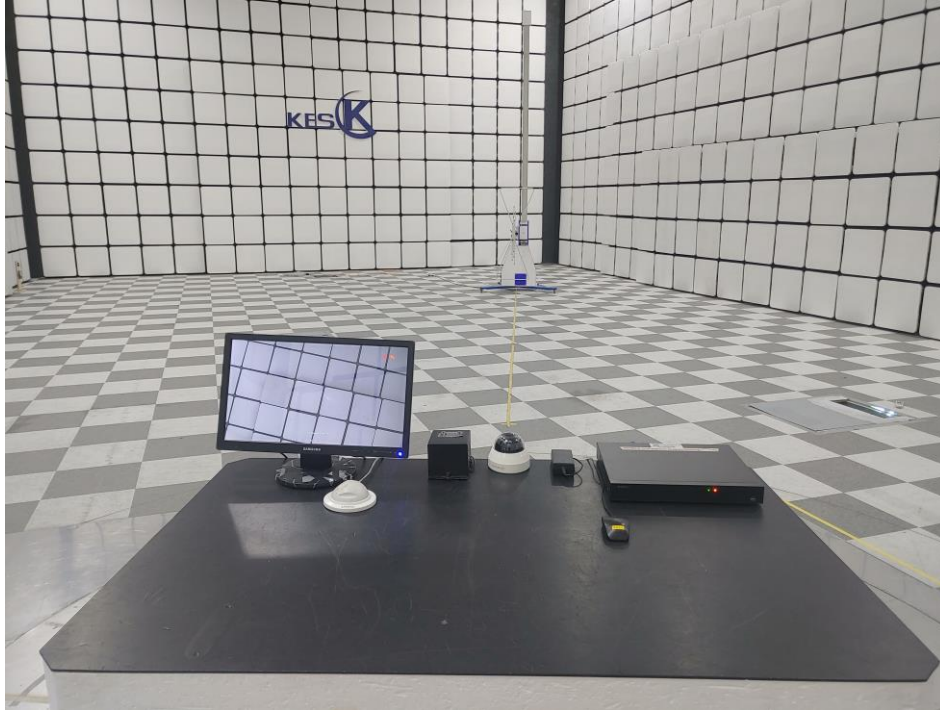
Conducted Emissions at Telecommunication Ports

N/A

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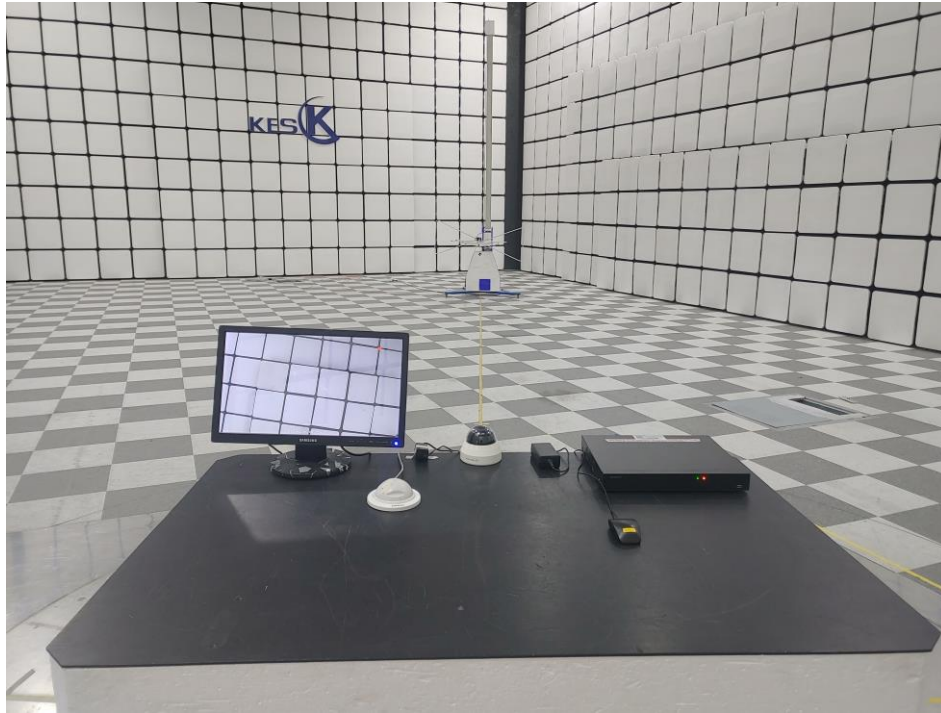
Radiated Electric Field Emissions(Below 1 GHz)

■ AC Mode



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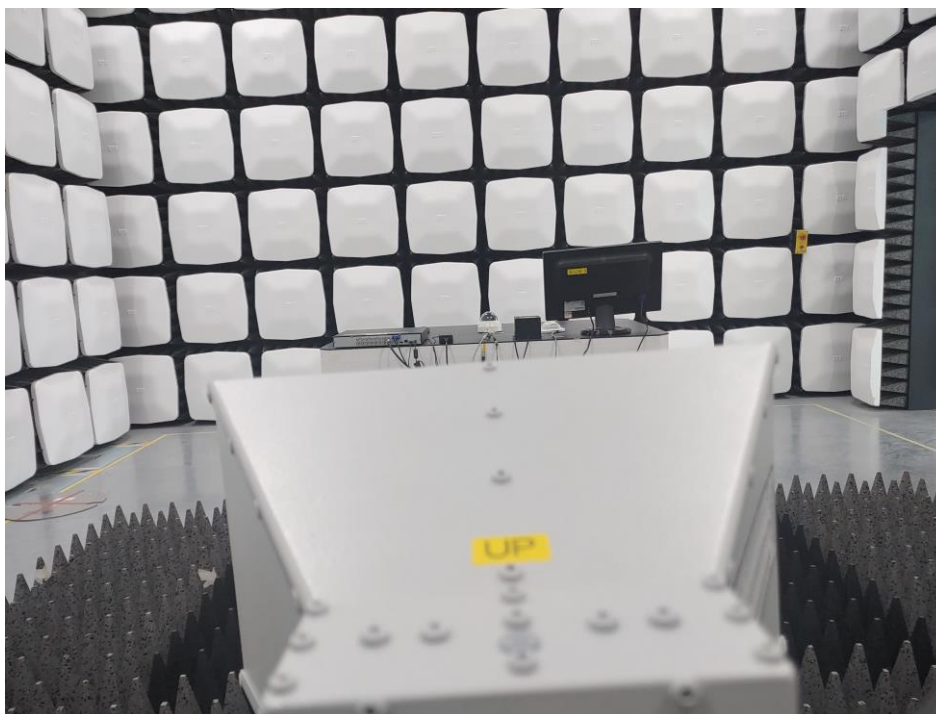
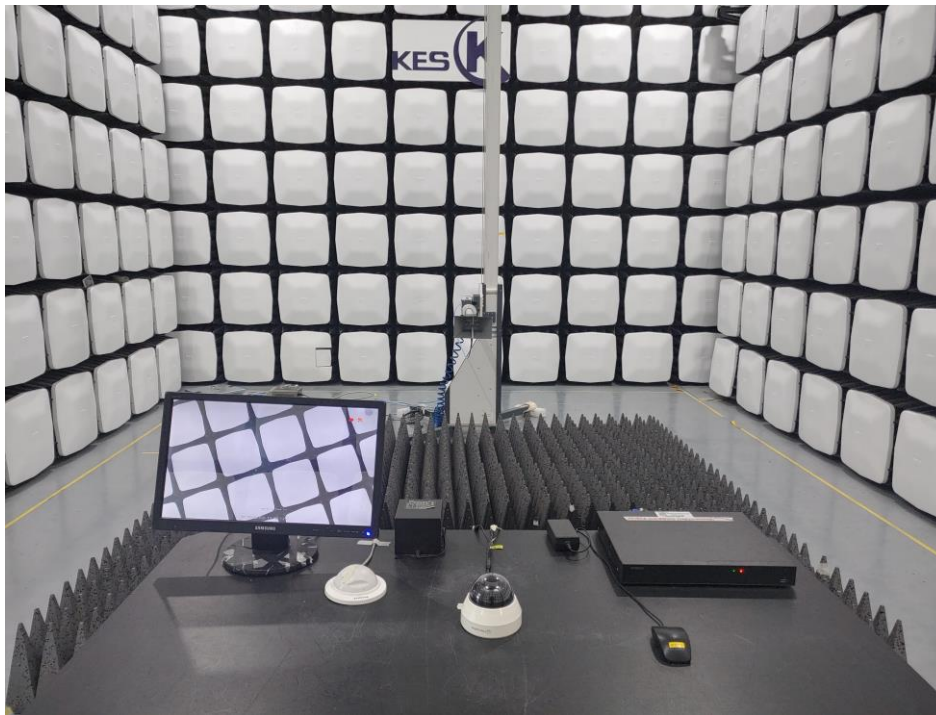
■ DC Mode



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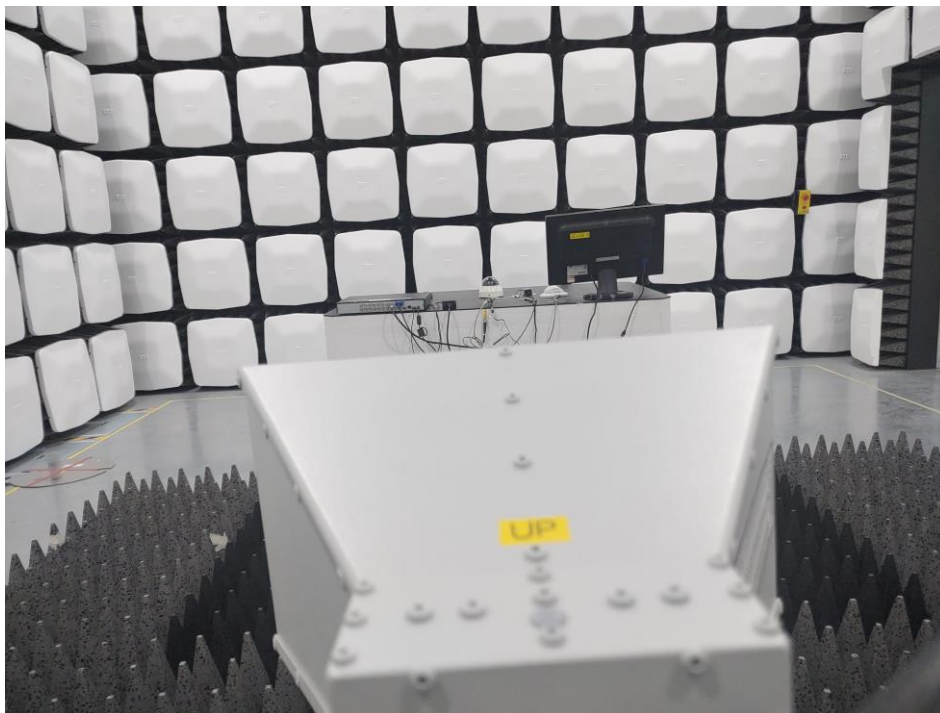
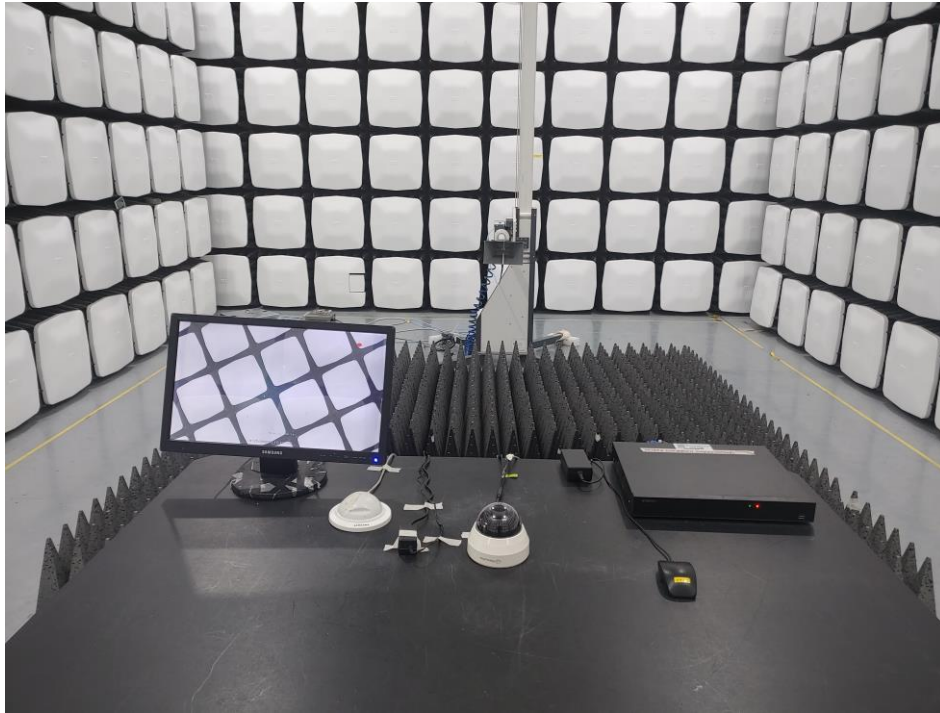
Radiated Electric Field Emissions(Above 1 GHz)

■ AC Mode



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EUT External Photographs

(Top)



(Bottom)



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EUT Internal Photographs

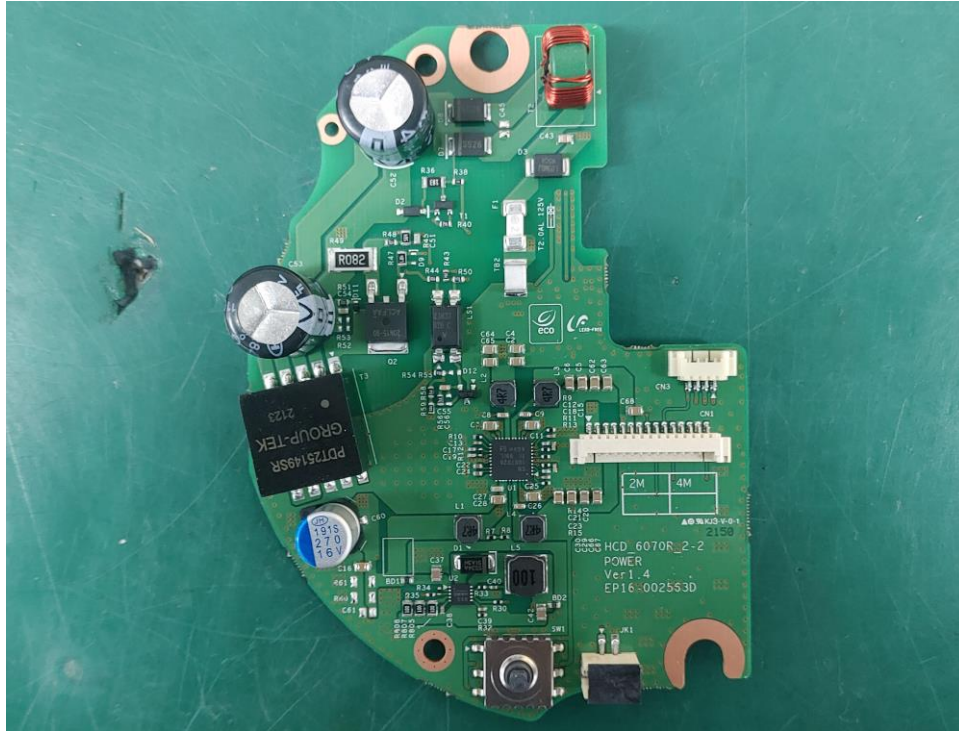
(Internal View)



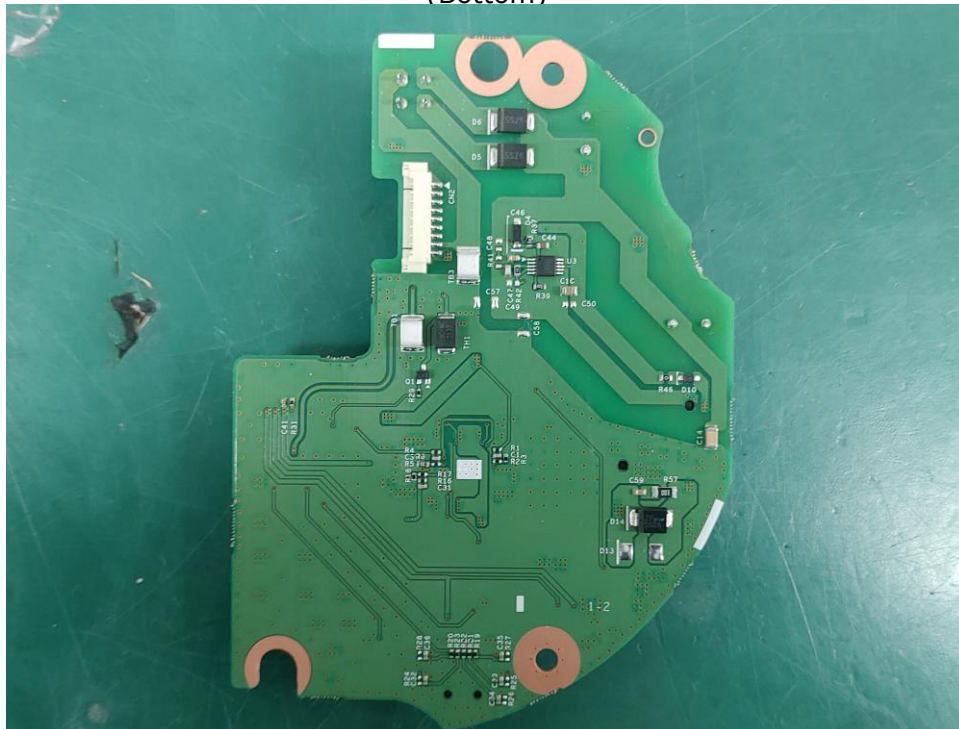
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EUT Internal View – Board 1

(Top)



(Bottom)



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EUT Internal View – Board 2

(Top)



(Bottom)



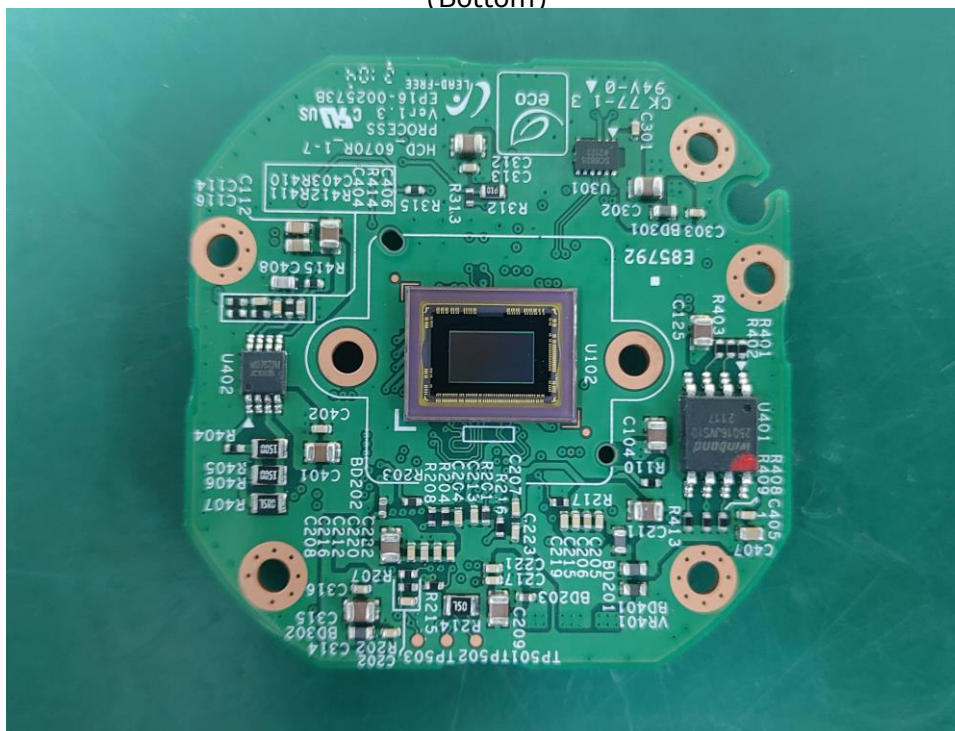
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EUT Internal View – Board 3

(Top)



(Bottom)



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EUT Internal View – Lens

(Top)

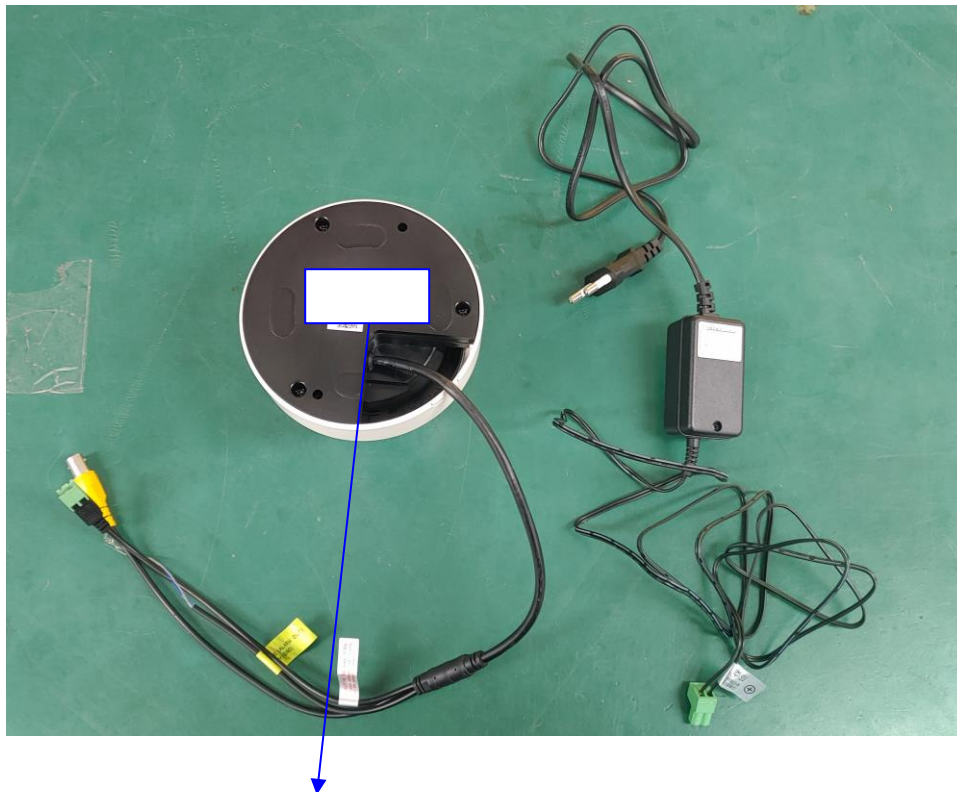


(Bottom)



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