

**KES Co., Ltd.**

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Report No.:

KES-EM-22T0566-R1

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EMC TEST REPORT

Test Report No. : KES-EM-22T0566-R1
Date of Issue : Feb. 24, 2023
Product name : LED MONITOR
Model/Type No. : SMT-3240
Variant Model : -
Applicant : Hanwha Vision Co., Ltd
Applicant Address : 6, Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si,
Gyeonggi-do, Republic of Korea
Manufacturer : Weihai Daewoo Electronics Co., Ltd.
Manufacturer Address : No.26, Hongkong Road, Economic & Technical Development
Zone, 264205 Weihai City, Shandong Province, China
Equipment authorization : **Supplier's Declaration of Conformity**
Date of Receipt : Jun. 22, 2022
Test date : Jun. 22, 2022 ~ Jun. 24, 2022
Test Results : ☒ **In Compliance** ☐ **Not in Compliance**

Tested by

Tae-Yeon, 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
Jul. 07, 2022	KES-EM-22T0566	Issued
Feb. 24, 2023	KES-EM-22T0566-R1	Change the Applicant and Applicant Address at the request of the customer

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1.0 General Product Description

Main Specifications of EUT are:

Display		
Screen Size		31.5"
Max. Resolution		3840*2160 60Hz (UHD)
Brightness		300 cd/m ² (Typ)
Contrast Ratio		700:1 (Min) '1000:1 (Typ)
Aspect Ratio		16:9
Viewing Angle (H/V)		178°/178°
Display Color		1.07B Colors(Typ)
Response Time		14ms(Typ)
Panel Life		30,000 hours
Interface		
Video	Connector	HDMI 2.0(1), DP1.2(1)
	Connector	HDMI
HDMI	Available	640 x 480@60Hz, 800 x 600@56Hz/60Hz, 1024 x 768@60Hz, 1280 x 720@60Hz, 1280 x 800@60Hz, 1280 x 960@60Hz, 1280 x 1024@60Hz, 1360 x 768@60Hz, 1440 x 900@60Hz, 1680 x 1050@60Hz, 1920 x 1080@60Hz, 2560 x 1440@60Hz, Format 3840x2160@60Hz, 640 x 480P@60Hz, 720 x 480P60Hz, 1280 x 720@60Hz, 720 x 576P@50Hz, 1280 x 720P@50Hz, 1920 x 60Hz, 1920x1080P@50/60Hz, 3840 x 2160P@30/50/60Hz, 1440x480P@60Hz, 1440 x 576P@50Hz, 1440 x 576P@50Hz
	Format	
DP	Connector	DP
	Available	640 x 480@60Hz, 800 x 600@56Hz/60Hz, 1024 x 768@60Hz, 1280 x 720@60Hz, 1280 x 800@60Hz, 1280 x 960@60Hz, 1280 x 1024@60Hz, 1360 x 768@60Hz, 1440 x 900@60Hz, 1680 x 1050@60Hz, 1920 x 1080@60Hz, 2560 x 1440@60Hz, Format 3840x2160@60Hz, 640 x 480P@60Hz, 720 x 480P60Hz, 1280 x 720@60Hz, 720 x 576P@50Hz, 1280 x 720P@50Hz, 1920 x 60Hz, 1920x1080P@50/60Hz, 3840 x 2160P@30/50/60Hz, 1440x480P@60Hz, 1440 x 576P@50Hz, 1440 x 576P@50Hz
Audio	Connector	Audio Out
	Output Signal	Loop-through line level(PC only), Speakers : 6Ω 2Wx 2
On Screen Display (OSD)		
Functions		VESA™ DPM Compatible

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Language		Korean, English, Русский, Deutsch, Français, Español, Italiano, Português, Chinese (Simplified), Chinese (Traditional), Japanese, Arabic
General		
Electrical	Input Voltage	AC 100-240V, 50/60HZ, 1.2A
	Power Consumption	<55W
Environmental	Operating Temperature	0 ~ +40°C (+32°F ~ +104°F)
	Operating Humidity	10% ~ 80% (non-condensing)
Mechanical	Dimensions with Stand	714.6*484.3*201.4mm
	Dimensions without Stand	714.6*484.3*53.7mm
	Bezel Size	3 Frameless Top:1.8mm Bottom:21mm Side : 1.8mm
	Cabinet Color	Black
	VESA Mounts Interface	100*100mm
Weight	With Stand	8.0Kg
	Without Stand	6.5Kg
	Carton+foam+Accessory+monitor	9.7Kg
Stand		including

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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

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
LED MONITOR	SMT-3240	-	Weihai Daewoo Electronics Co., Ltd	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
Desktop PC	DM500T6Z	-	Samsung Electronics Co., Ltd.	-
Keyboard	Y-S0002	-	Logitech	-
Mouse	AA-SM7PCP	-	Acrox Technologies Co.,Ltd.	-
Earphone	-	-	BEXEL	-



1.6 External I/O Cabling

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
LED MONITOR (EUT)	DP	Desktop PC	DP	1.5	S
	HDMI	Desktop PC	HDMI	1.5	S
	Audio out	Earphone	3.5 mm	1.1	U
Desktop PC	PS/2	Keyboard	PS/2	1.5	U
	USB	Mouse	USB	1.9	U

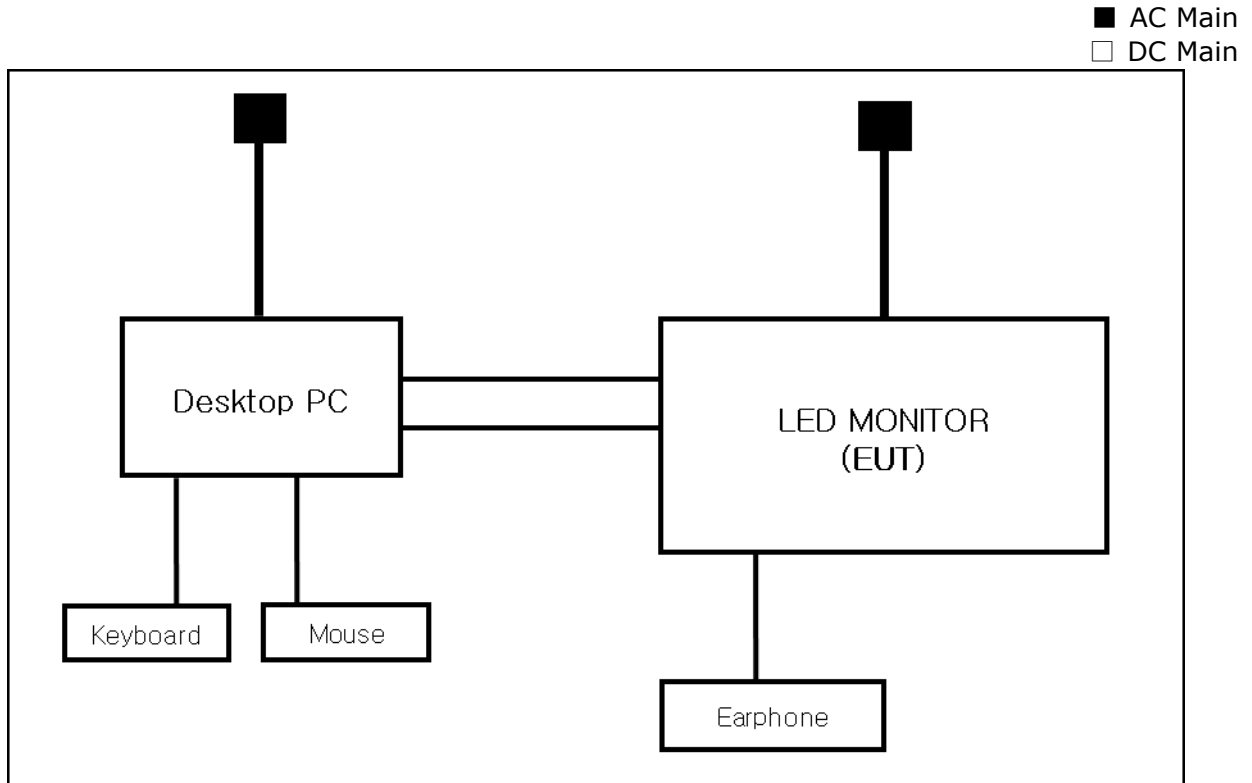
* Unshielded=U, Shielded=S

1.7 EUT Operating Mode(s)

Test mode	Test Power	Test No.	operating
DP input	AC POWER (AC 230 V, 50 Hz,	Test #1	Connecting the desktop PC to the EUT through the DP port. Play the color bar video file and output it to the EUT.
HDMI input		Test #2	Connecting the desktop PC to the EUT through the HDMI port. Play the color bar video file and output it to the EUT.

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

1.8 Configuration



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:

☒ **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

Jun. 22, 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: (24,3 ± 0,2) °C

Relative Humidity: (44,5 ± 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.



2.2 Radiated Electric Field Emissions(Below 1 GHz)

Test Date

Jun. 23, 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	03, 31, 2023
☒	AMPLIFIER	SCU 01	R & S	100603	11, 24, 2022
☒	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	12, 08, 2022
☒	ATTENUATOR	8491A	HP	32173	03, 08, 2023

Test Conditions

Temperature: (24,7 ± 0,2) °C
Relative Humidity: (44,9 ± 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.



2.3 Radiated Electric Field Emissions(Above 1 GHz)

Test Date

Jun. 24, 2022

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, 31, 2023
☒	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	12, 16, 2022
☒	PREAMPLIFIER	8449B	HP	3008A00538	06, 02, 2023

Test Conditions

Temperature: (24,4 ± 0,3) °C

Relative Humidity: (45,0 ± 0,2) % 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.

APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

■ Test #1

HOT LINE

Common Information

Test Description:

Model No.:

Phase:

Mode:

Operator Name:

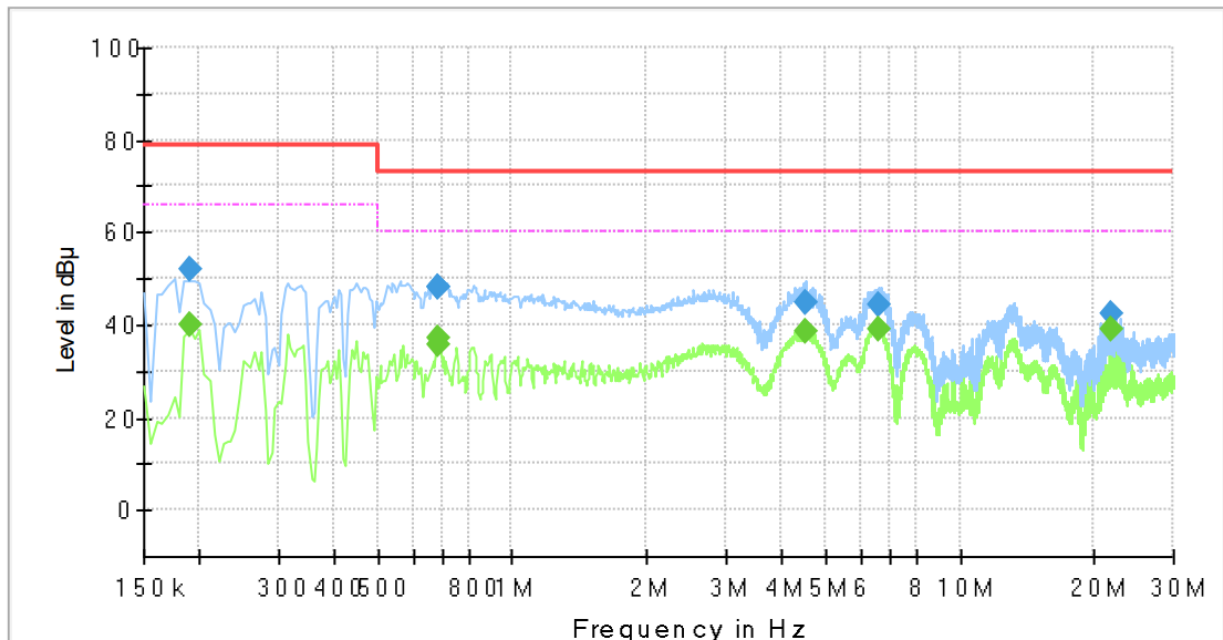
Conducted Emission

SMT-3240

L1

DP, AC 120 V 60 Hz

KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.190000	51.79	---	79.00	27.21	1000.0	9.000	L1	19.4
0.190000	---	39.98	66.00	26.02	1000.0	9.000	L1	19.4
0.680000	---	35.76	60.00	24.24	1000.0	9.000	L1	19.9
0.680000	48.00	---	73.00	25.00	1000.0	9.000	L1	19.9
0.685000	---	36.93	60.00	23.07	1000.0	9.000	L1	19.9
0.685000	48.00	---	73.00	25.00	1000.0	9.000	L1	19.9
4.545000	---	38.47	60.00	21.53	1000.0	9.000	L1	19.7
4.545000	45.00	---	73.00	28.00	1000.0	9.000	L1	19.7
6.605000	---	39.23	60.00	20.77	1000.0	9.000	L1	19.5
6.605000	44.35	---	73.00	28.65	1000.0	9.000	L1	19.5
21.865000	---	38.76	60.00	21.24	1000.0	9.000	L1	20.1
21.865000	42.33	---	73.00	30.67	1000.0	9.000	L1	20.1

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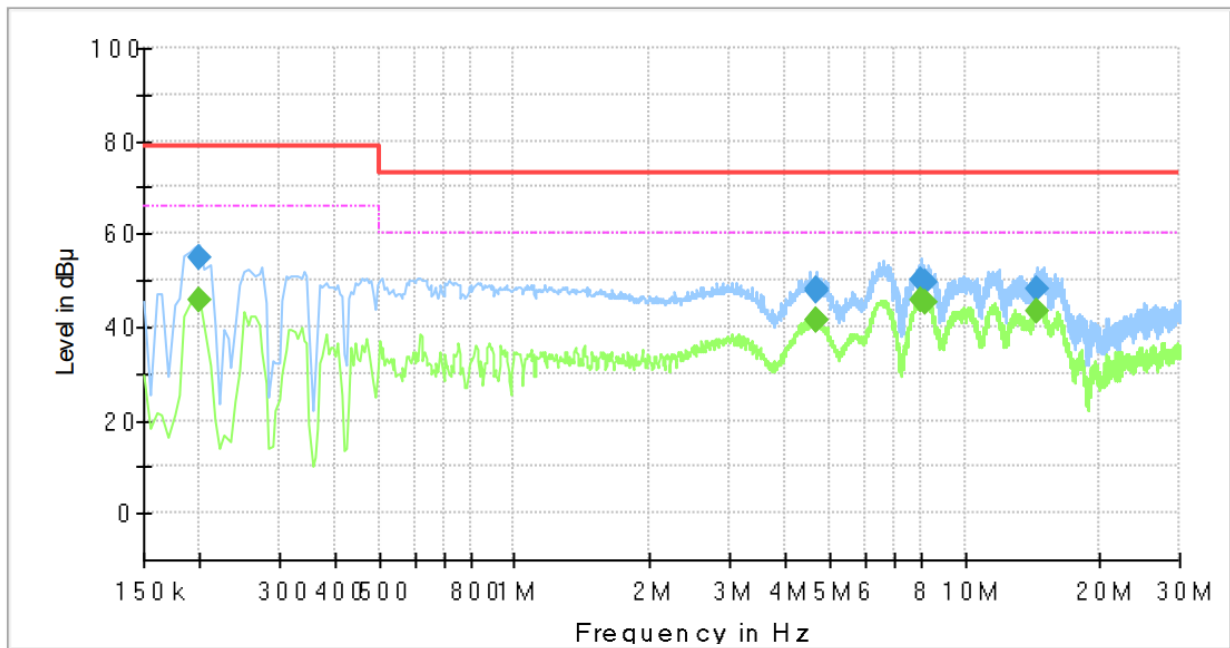
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NEUTRAL LINE

Common Information

Test Description: Conducted Emission
Model No.: SMT-3240
Phase: N
Mode: DP, AC 120 V 60 Hz
Operator Name: KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.200000	54.96	---	79.00	24.04	1000.0	9.000	N	19.4
0.200000	---	45.56	66.00	20.44	1000.0	9.000	N	19.4
4.675000	47.68	---	73.00	25.32	1000.0	9.000	N	19.7
4.675000	---	41.45	60.00	18.55	1000.0	9.000	N	19.7
4.680000	48.08	---	73.00	24.92	1000.0	9.000	N	19.7
4.680000	---	41.36	60.00	18.64	1000.0	9.000	N	19.7
7.985000	49.82	---	73.00	23.18	1000.0	9.000	N	19.6
7.985000	---	45.77	60.00	14.23	1000.0	9.000	N	19.6
8.145000	49.57	---	73.00	23.43	1000.0	9.000	N	19.6
8.145000	---	45.28	60.00	14.72	1000.0	9.000	N	19.6
14.485000	---	43.55	60.00	16.45	1000.0	9.000	N	19.9
14.485000	48.08	---	73.00	24.92	1000.0	9.000	N	19.9

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■ Test #2

HOT LINE

Common Information

Test Description:

Model No.:

Phase:

Mode:

Operator Name:

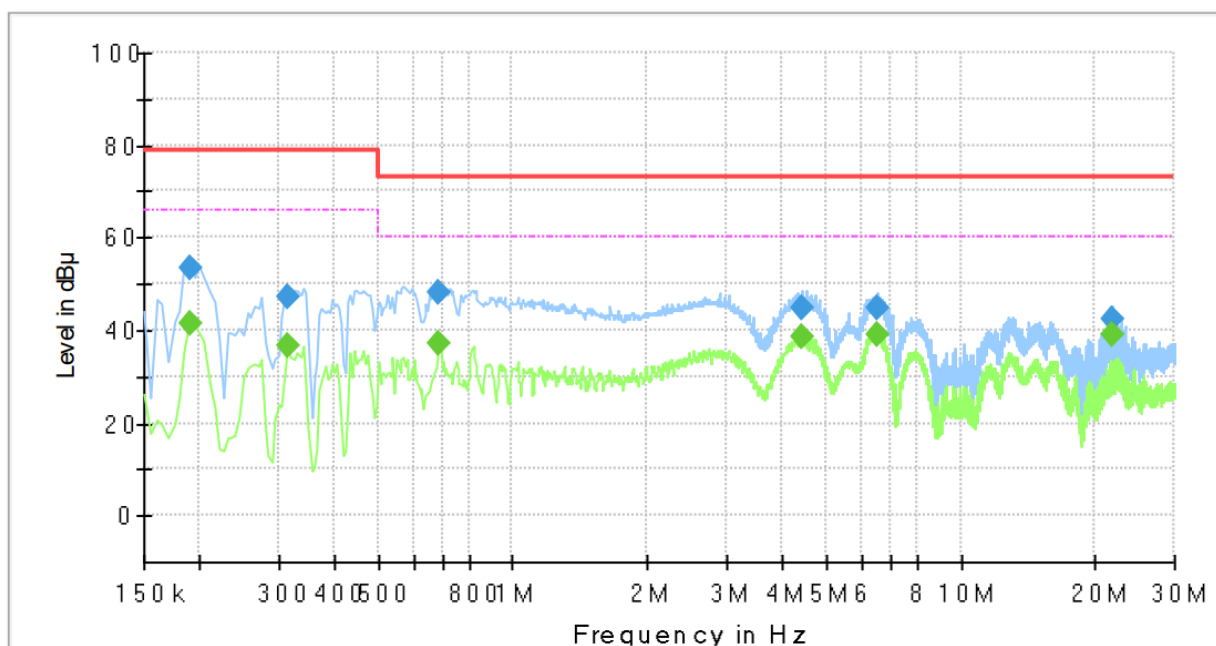
Conducted Emission

SMT-3240

L1

HDMI, AC 120 V 60 Hz

KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.190000	53.39	---	79.00	25.61	1000.0	9.000	L1	19.4
0.190000	---	41.40	66.00	24.60	1000.0	9.000	L1	19.4
0.315000	---	36.67	66.00	29.33	1000.0	9.000	L1	19.5
0.315000	47.36	---	79.00	31.64	1000.0	9.000	L1	19.5
0.685000	48.03	---	73.00	24.97	1000.0	9.000	L1	19.9
0.685000	---	36.97	60.00	23.03	1000.0	9.000	L1	19.9
4.405000	---	38.53	60.00	21.47	1000.0	9.000	L1	19.8
4.405000	44.95	---	73.00	28.05	1000.0	9.000	L1	19.8
6.535000	44.59	---	73.00	28.41	1000.0	9.000	L1	19.5
6.535000	---	39.19	60.00	20.81	1000.0	9.000	L1	19.5
21.870000	42.53	---	73.00	30.47	1000.0	9.000	L1	20.1
21.870000	---	39.10	60.00	20.90	1000.0	9.000	L1	20.1

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NEUTRAL LINE

Common Information

Test Description:

Model No.:

Phase:

Mode:

Operator Name:

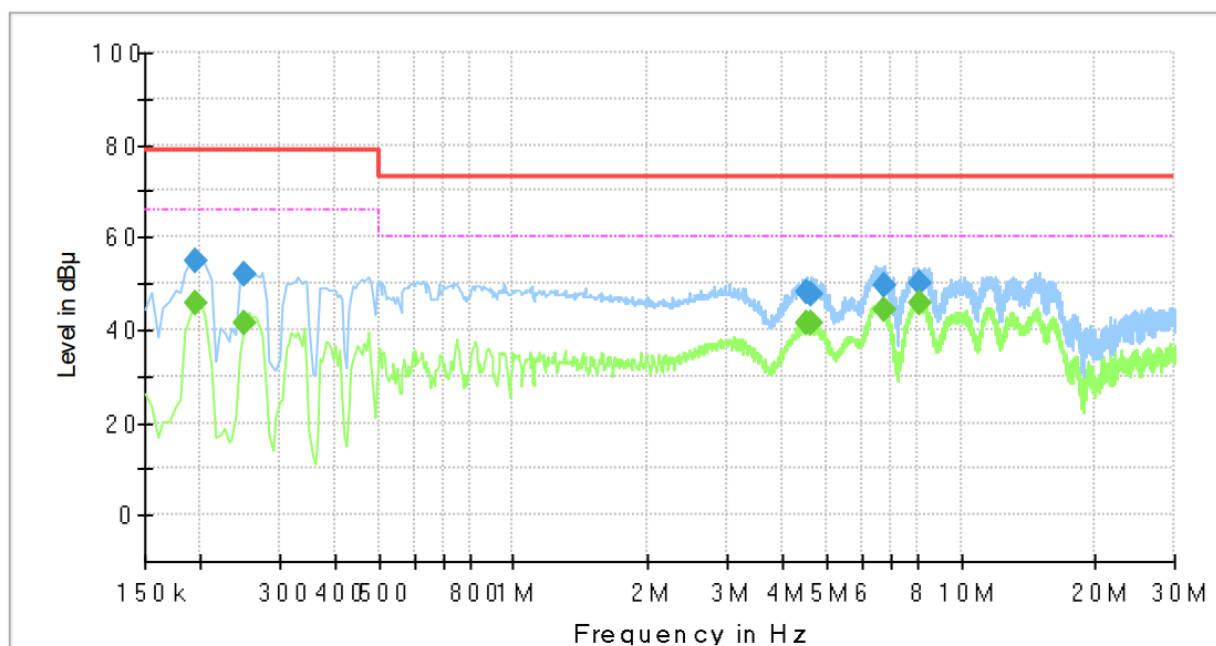
Conducted Emission

SMT-3240

N

HDMI, AC 120 V 60 Hz

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Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.195000	54.94	---	79.00	24.06	1000.0	9.000	N	19.4
0.195000	---	45.65	66.00	20.35	1000.0	9.000	N	19.4
0.250000	---	41.36	66.00	24.64	1000.0	9.000	N	19.5
0.250000	52.11	---	79.00	26.89	1000.0	9.000	N	19.5
4.540000	---	41.54	60.00	18.46	1000.0	9.000	N	19.7
4.540000	48.13	---	73.00	24.87	1000.0	9.000	N	19.7
4.615000	---	41.31	60.00	18.69	1000.0	9.000	N	19.7
4.615000	47.53	---	73.00	25.47	1000.0	9.000	N	19.7
6.745000	---	44.15	60.00	15.85	1000.0	9.000	N	19.5
6.745000	49.73	---	73.00	23.27	1000.0	9.000	N	19.5
8.065000	---	45.64	60.00	14.36	1000.0	9.000	N	19.6
8.065000	49.81	---	73.00	23.19	1000.0	9.000	N	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 (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

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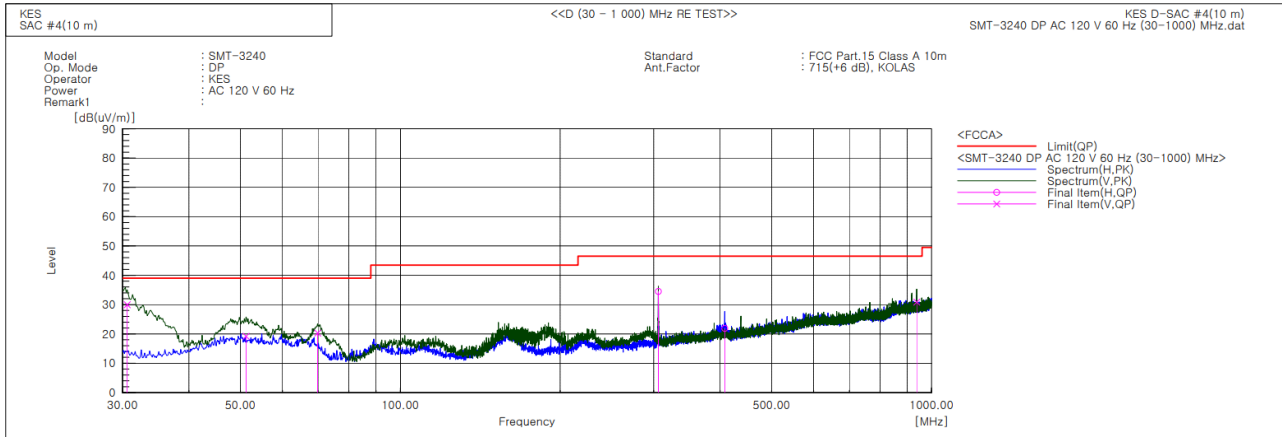
KES-EM-22T0566-R1

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Radiated Electric Field Emissions(Below 1 GHz)

- 47 CFR Part 15, Subpart B

Test #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	30.606	V	55.2	-25.2	30.0	39.0	9.0	106.0	270.4	
2	51.219	V	40.2	-21.0	19.2	39.0	19.8	101.0	281.5	
3	69.891	V	45.1	-24.8	20.3	39.0	18.7	115.0	197.5	
4	305.965	H	52.2	-17.7	34.5	46.5	12.0	223.0	53.9	
5	407.936	H	35.9	-14.0	21.9	46.5	24.6	153.0	34.6	
6	937.556	V	34.7	-3.8	30.9	46.5	15.6	100.0	254.0	

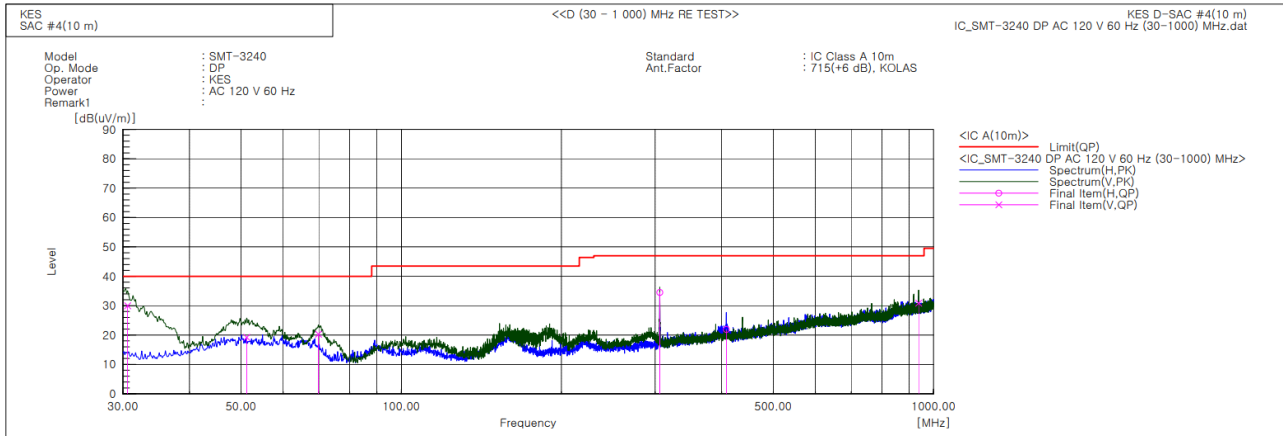
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- IC Regulation ICES-003 Issue 7



Final Result

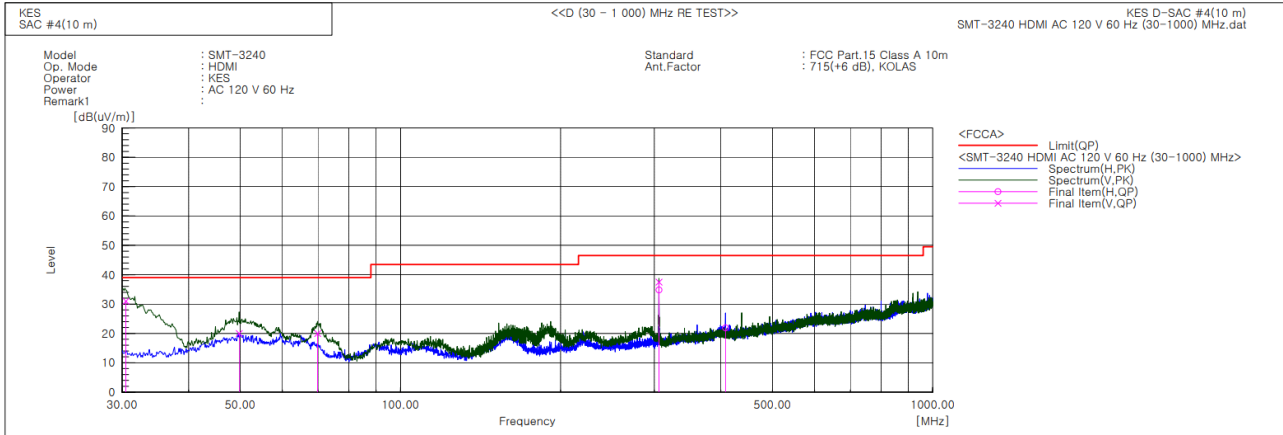
No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	30.606	V	55.2	-25.2	30.0	40.0	10.0	106.0	270.4	
2	51.219	V	40.2	-21.0	19.2	40.0	20.8	101.0	281.5	
3	69.891	V	45.1	-24.8	20.3	40.0	19.7	115.0	197.5	
4	305.965	H	52.2	-17.7	34.5	47.0	12.5	223.0	53.9	
5	407.936	H	35.9	-14.0	21.9	47.0	25.1	153.0	34.6	
6	937.556	V	34.7	-3.8	30.9	47.0	16.1	100.0	254.0	

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- 47 CFR Part 15, Subpart B

■ Test #2

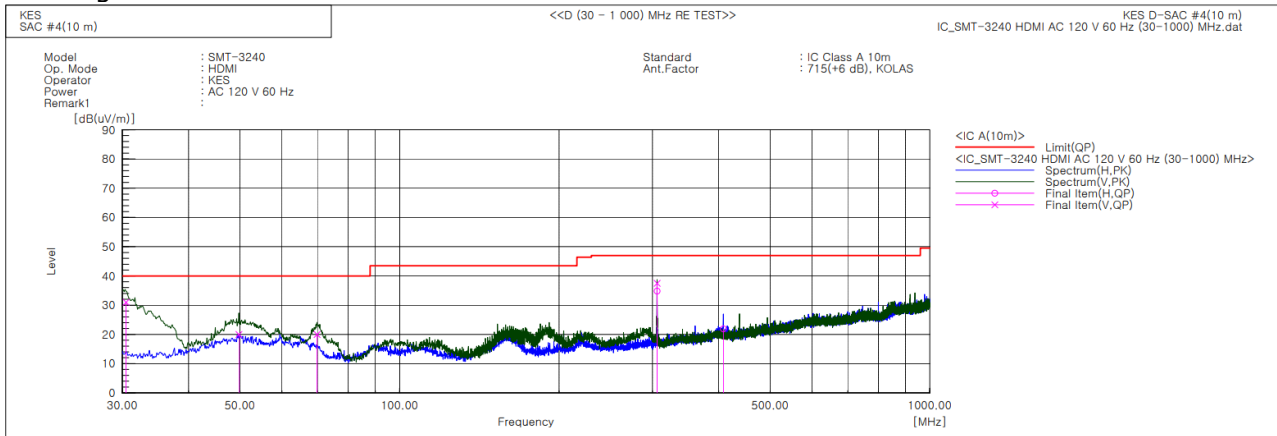


Final Result

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	30.485	V	56.2	-25.2	31.0	39.0	8.0	129.0	53.6	
2	49.764	V	41.0	-21.0	20.0	39.0	19.0	263.0	316.1	
3	69.891	V	44.8	-24.8	20.0	39.0	19.0	100.0	71.8	
4	305.965	H	52.5	-17.7	34.8	46.5	11.7	268.0	34.8	
5	305.965	V	55.2	-17.7	37.5	46.5	9.0	100.0	326.4	
6	408.058	H	35.9	-14.0	21.9	46.5	24.6	121.0	180.2	



- 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	30.485	V	56.2	-25.2	31.0	40.0	9.0	129.0	53.6	
2	49.764	V	41.0	-21.0	20.0	40.0	20.0	263.0	316.1	
3	69.891	V	44.8	-24.8	20.0	40.0	20.0	100.0	71.8	
4	305.965	H	52.5	-17.7	34.8	47.0	12.2	268.0	34.8	
5	305.965	V	55.2	-17.7	37.5	47.0	9.5	100.0	326.4	
6	408.058	H	35.9	-14.0	21.9	47.0	25.1	121.0	180.2	

◆ 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



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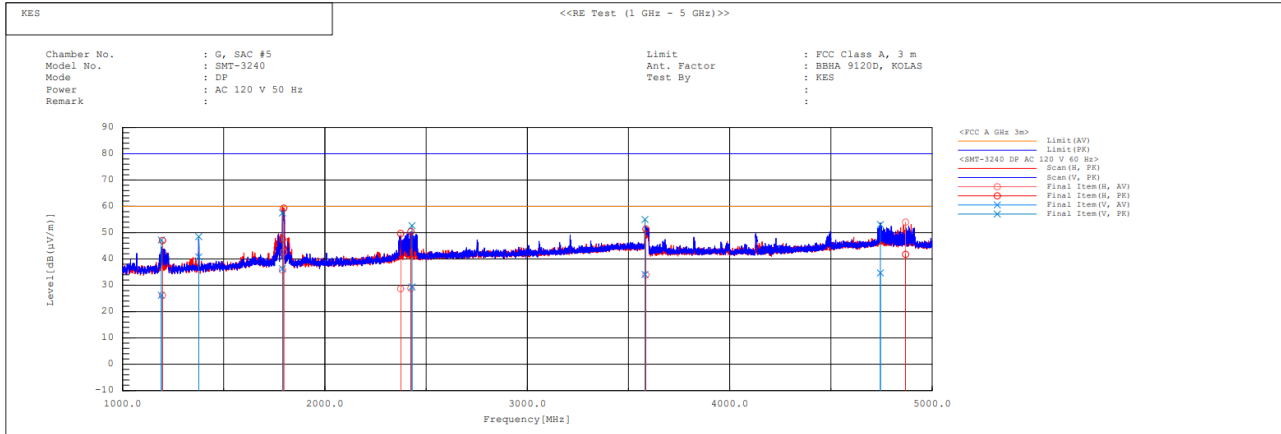
Report No.:

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Radiated Electric Field Emissions(Above 1 GHz)

Test #1



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	1191.600	V	32.9	53.9	-6.7	26.2	47.2	60.0	80.0	33.8	32.8	100.0	332.3	
2	1197.600	H	32.9	53.7	-6.7	26.2	47.0	60.0	80.0	33.8	33.0	100.0	264.5	
3	1376.800	V	46.3	54.0	-5.5	40.8	48.5	60.0	80.0	19.2	31.5	100.0	320.7	
4	1790.400	H	39.5	51.1	-3.7	35.8	47.4	60.0	80.0	24.2	32.6	100.0	22.3	
5	1790.400	V	40.0	61.2	-3.7	36.3	57.5	60.0	80.0	23.7	22.5	136.0	196.1	
6	1797.200	H	46.4	63.0	-3.7	42.7	59.3	60.0	80.0	17.3	20.7	100.0	4.0	
7	2374.000	H	30.2	51.2	-1.5	28.7	49.7	60.0	80.0	31.3	30.3	100.0	347.0	
8	2425.200	H	30.1	51.7	-1.3	28.8	50.4	60.0	80.0	31.2	29.6	100.0	53.9	
9	2430.400	V	30.7	54.0	-1.3	29.4	52.7	60.0	80.0	30.6	27.3	101.0	347.0	
10	3581.200	V	32.1	53.0	2.0	34.1	55.0	60.0	80.0	25.9	25.0	100.0	180.1	
11	3586.000	H	31.9	49.4	2.0	33.9	51.4	60.0	80.0	26.1	28.6	100.0	172.0	
12	4744.400	V	28.5	46.9	6.2	34.7	53.1	60.0	80.0	25.3	26.9	100.0	7.1	
13	4868.800	H	47.4	35.2	6.6	54.0	41.8	60.0	80.0	6.0	38.2	100.0	70.6	

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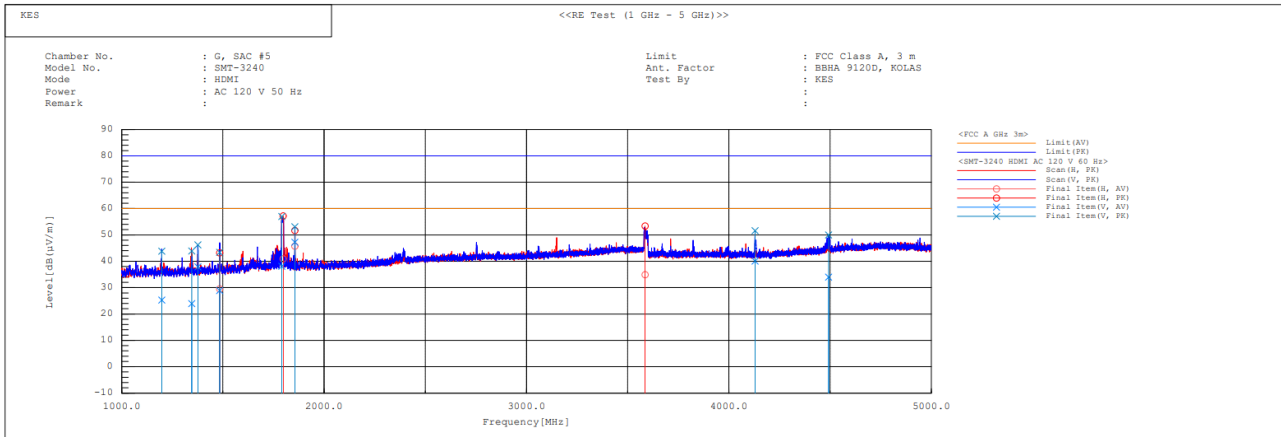
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Test #2



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	1198.000	V	32.0	50.5	-6.7	25.3	43.8	60.0	80.0	34.7	36.2	146.0	330.3	
2	1346.000	V	29.6	49.6	-5.7	23.9	43.9	60.0	80.0	36.1	36.1	101.0	203.3	
3	1376.400	V	43.4	51.7	-5.5	37.9	46.2	60.0	80.0	22.1	33.8	100.0	354.6	
4	1484.400	V	34.0	48.5	-5.1	28.9	43.4	60.0	80.0	31.1	36.6	133.0	359.0	
5	1484.400	H	34.6	48.3	-5.1	29.5	43.2	60.0	80.0	30.5	36.8	191.0	25.7	
6	1791.200	V	41.8	60.7	-3.7	38.1	57.0	60.0	80.0	21.9	23.0	100.0	203.3	
7	1797.600	H	44.6	60.9	-3.7	40.9	57.2	60.0	80.0	19.1	22.8	100.0	0.9	
8	1856.000	V	50.6	56.5	-3.4	47.2	53.1	60.0	80.0	12.8	26.9	150.2	0.1	
9	1856.000	H	49.1	55.1	-3.4	45.7	51.7	60.0	80.0	14.3	28.3	100.0	338.5	
10	3586.400	H	32.9	51.4	2.0	34.9	53.4	60.0	80.0	25.1	26.6	100.0	18.8	
11	4129.600	V	36.4	47.9	3.7	40.1	51.6	60.0	80.0	19.9	28.4	100.0	8.1	
12	4492.800	V	28.7	44.7	5.3	34.0	50.0	60.0	80.0	26.0	30.0	100.0	131.0	

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

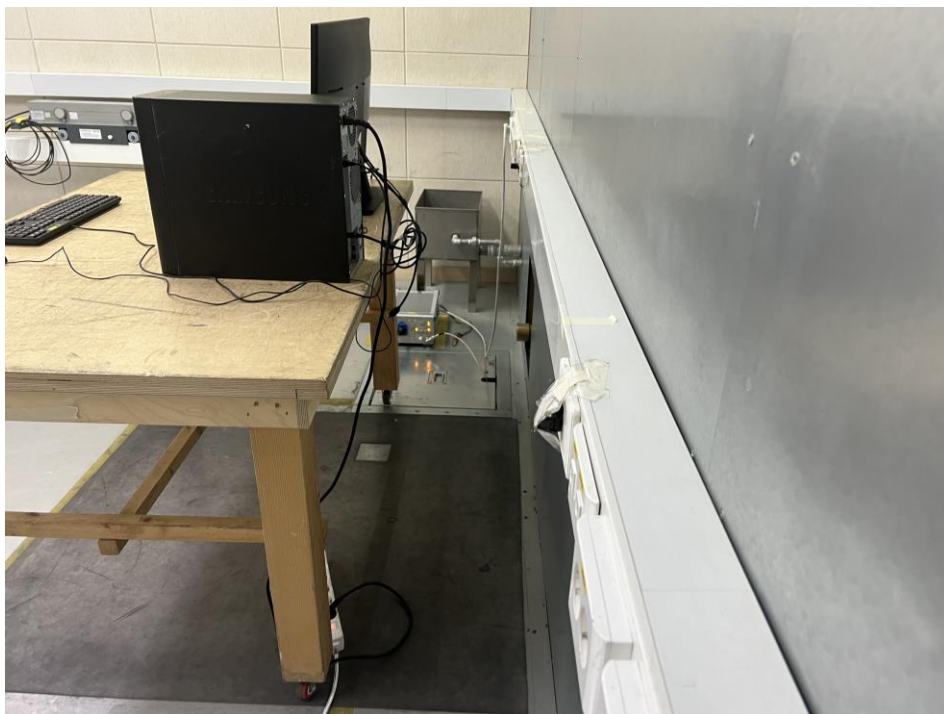
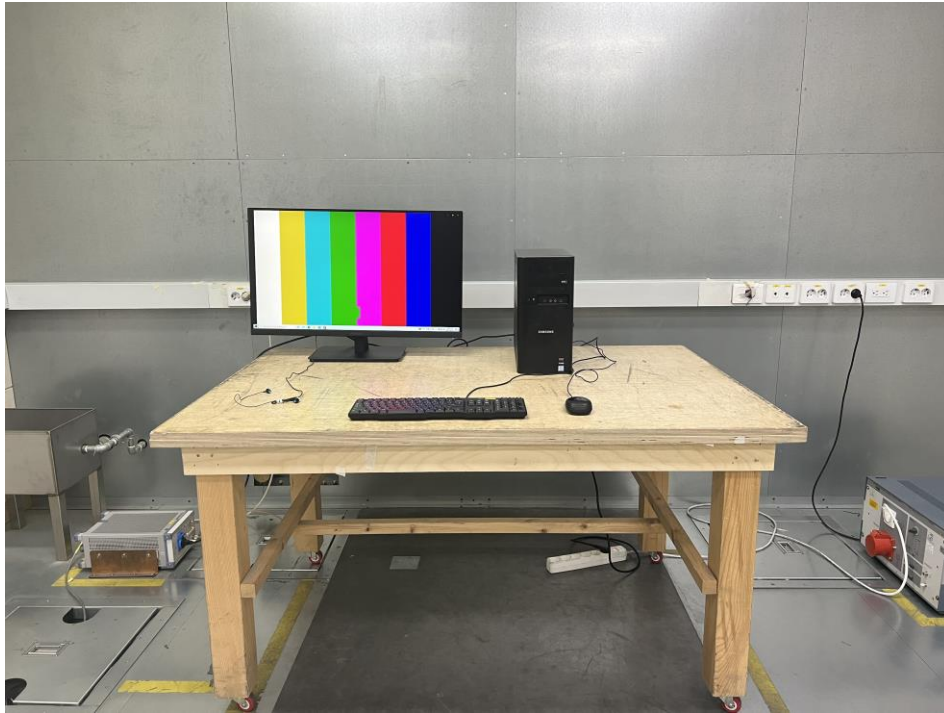
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Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports



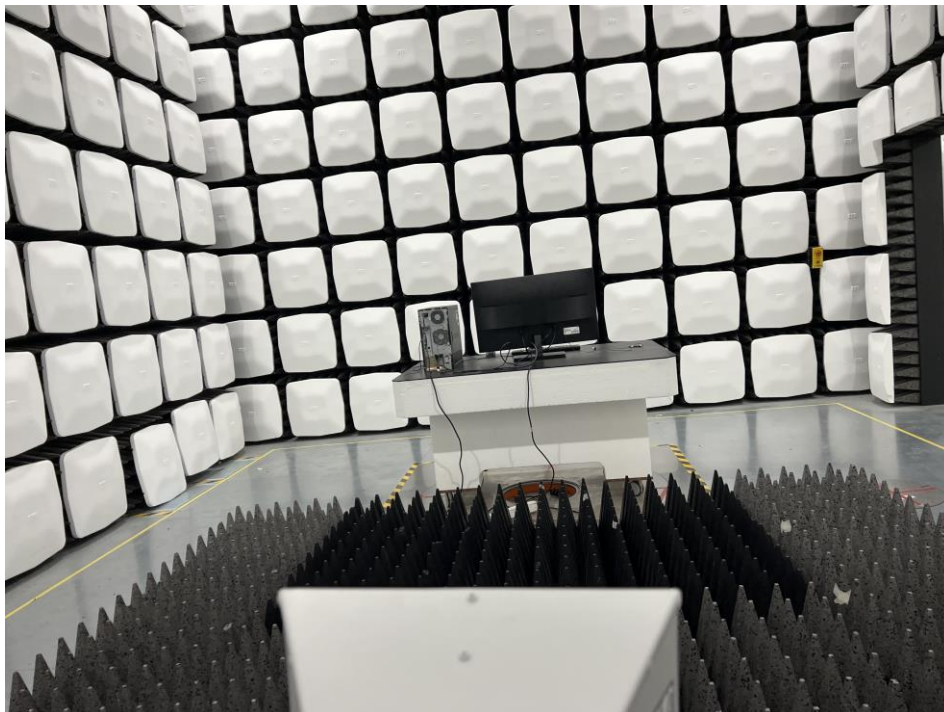
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Radiated Electric Field Emissions(Below 1 GHz)



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Radiated Electric Field Emissions(Above 1 GHz)



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EUT External Photographs

(Top)



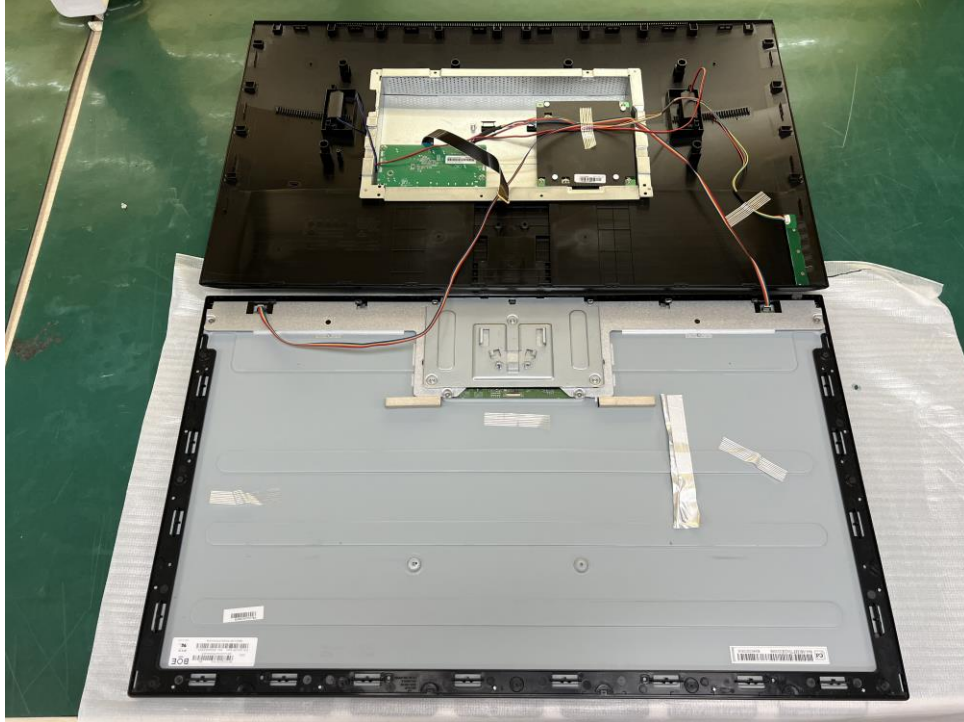
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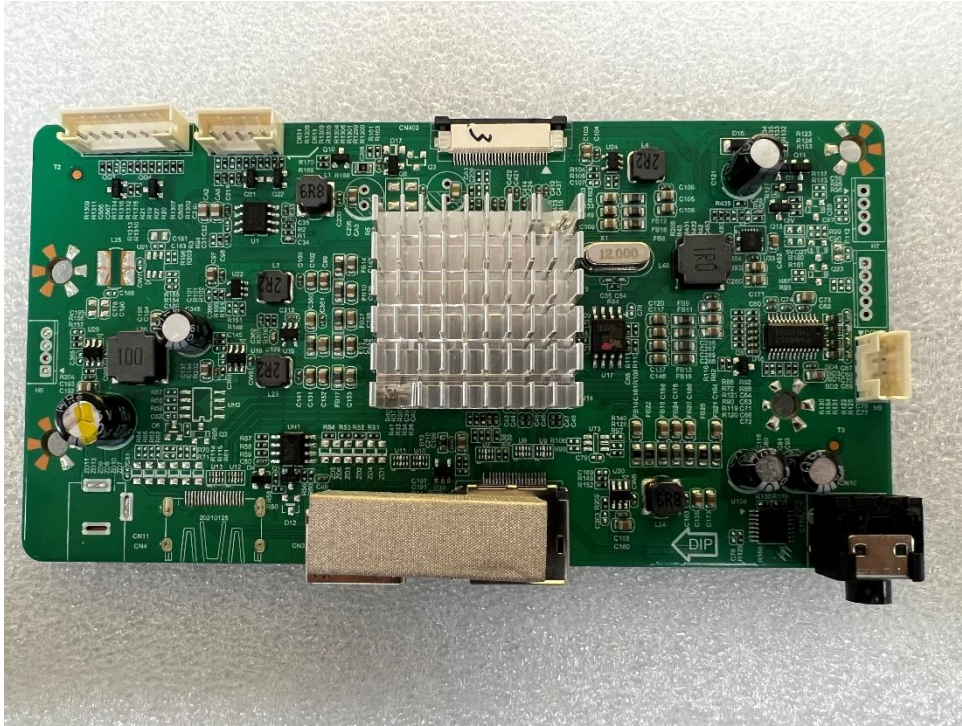
(Internal View)



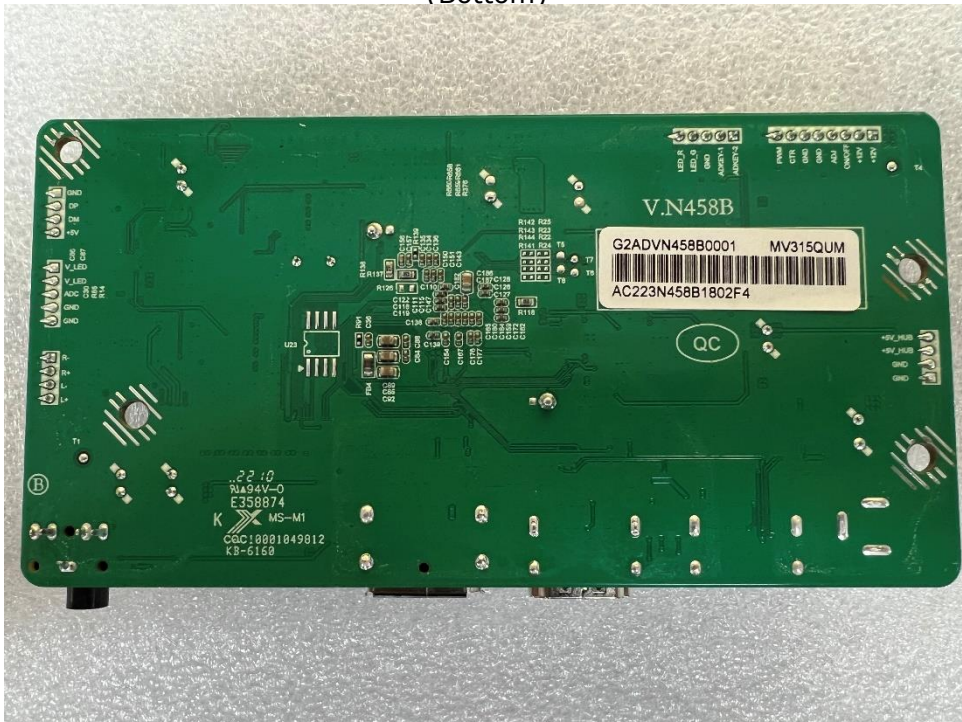
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EUT Internal View – Main Board

(Top)



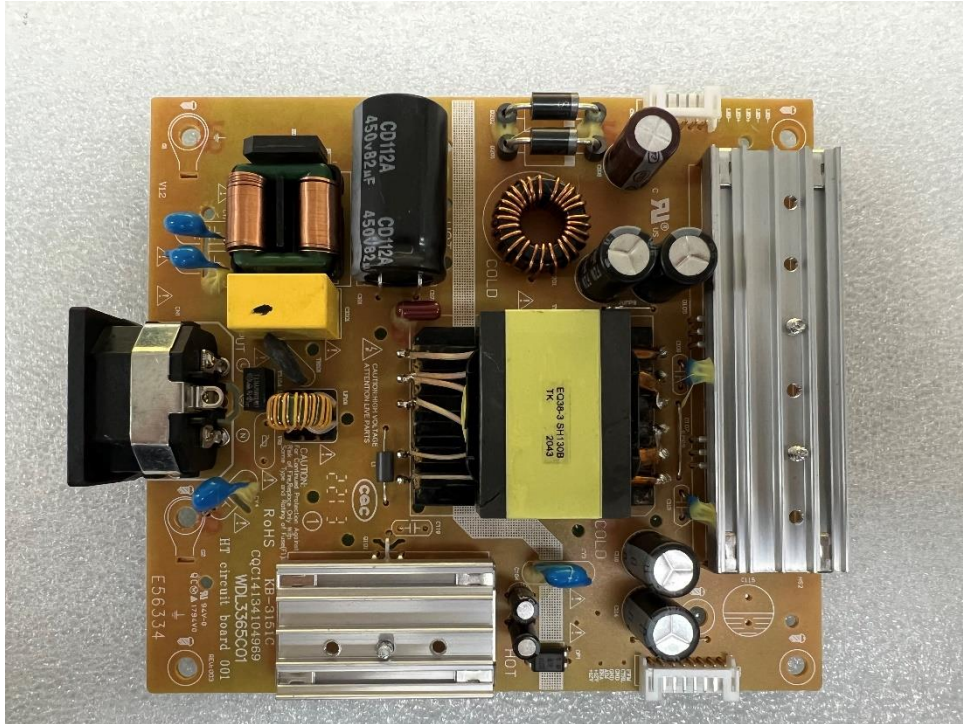
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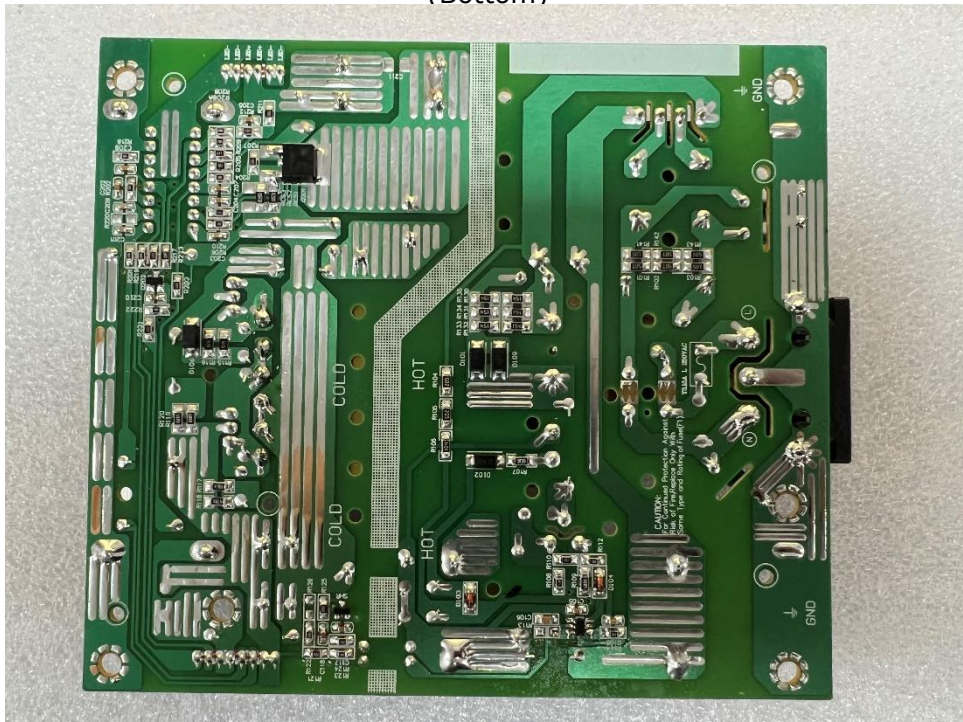
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EUT Internal View – SMPS Board

(Top)



(Bottom)



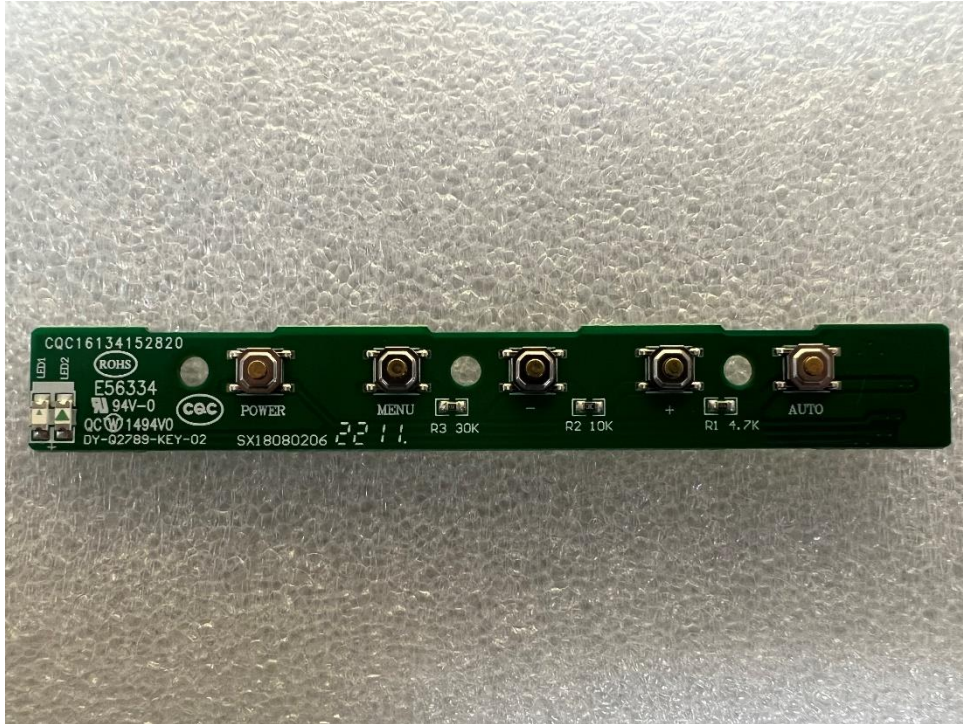
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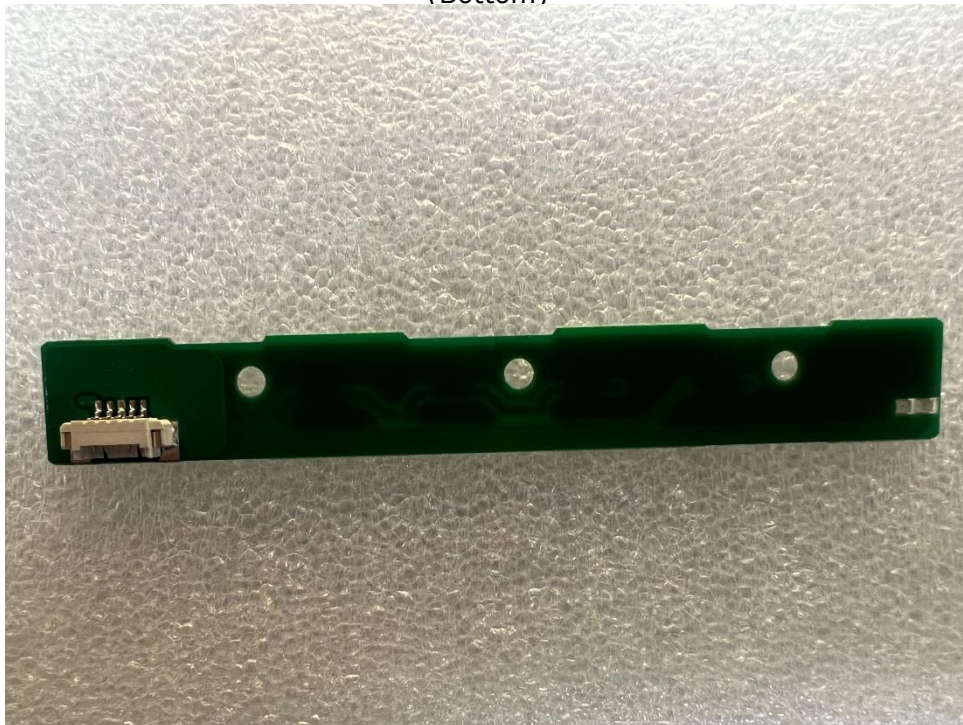
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EUT Internal View – Switch Board

(Top)



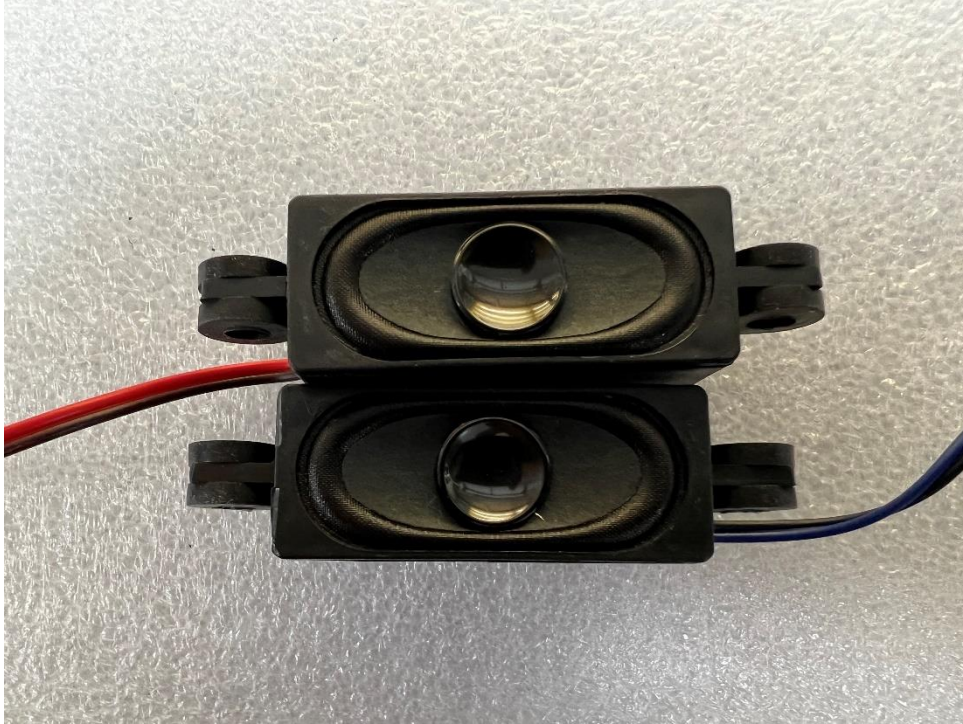
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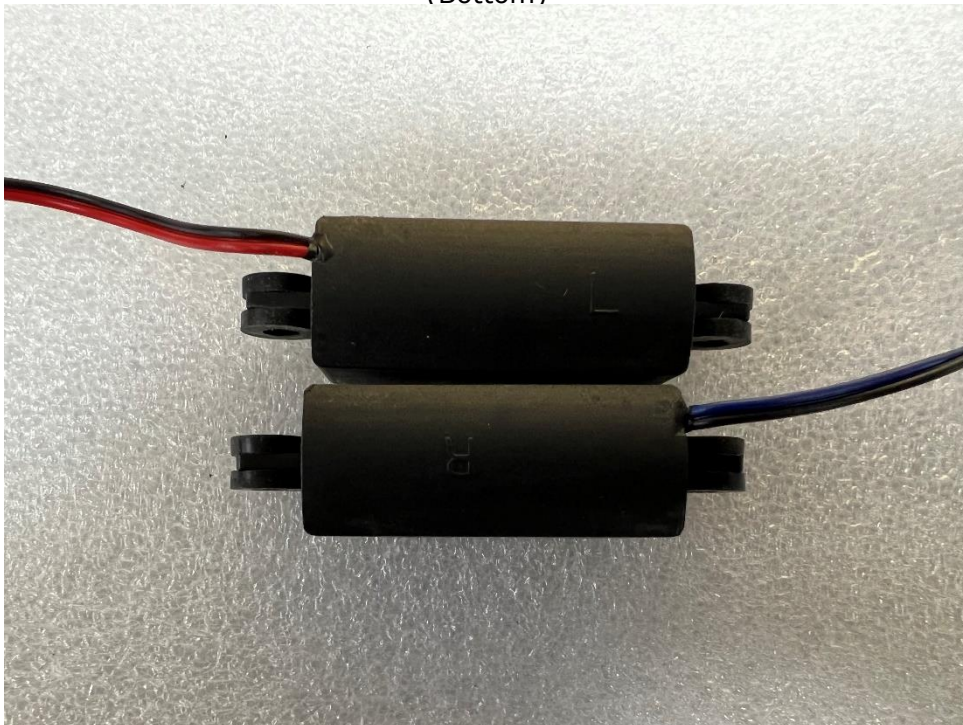
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EUT Internal View – Speaker

(Top)



(Bottom)



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EUT Internal View – LCD

(Top)



(Bottom)



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(Label)



Label Photographs

FCC Label



Hanwha Vision Co., Ltd

SMT-3240

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.