

EMC TEST REPORT

Test Report No. : KES-EM-22T0189-R1
Date of Issue : Feb. 24, 2023
Product name : LED MONITOR
Model/Type No. : SMT-4343
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 : Jan. 25, 2022
Test date : Jan. 26, 2022
Test Results : ☒ **In Compliance** ☐ **Not in Compliance**

Tested by



Dong In, 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.



REPORT REVISION HISTORY

Date	Test Report No.	Revision History
Feb. 11, 2022	KES-EM-22T0189	Issued
Feb. 24, 2023	KES-EM-22T0189-R1	Change the Applicant at the request of the customer.

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1.0 General Product Description

Main Specifications of EUT are:

SMT-4343		
Display		
Screen Size		42.5"
Max. Resolution		3840*2160
Brightness		300 cd/m²
Contrast Ratio		800:1 (Min) 1000:1 (Typ)
Aspect Ratio		16:9
Viewing Angle (H/V)		178°/178°
Display Color		1.07G (8bits + FRC)
Response Time		8ms(G to G)
Panel Life		30,000 hours
Interface		
USB	Connector	USB2.0 hub x 1 (1 PC up , 2 down)
Video	Connector	HDMI 2.0(1) DP 1.2(1)
	Connector	HDMI
HDMI	Available Format	640 x 480@60Hz/70Hz/72Hz/75Hz (VGA), 720 x 400@50Hz/60Hz/70Hz, 720x576@50Hz , 800 x 600@56Hz/60Hz/72Hz/75Hz (SVGA), 832 x 624@75Hz, 1,024 x 768@60Hz/70Hz/75Hz (XGA), 1,152 x 864@60Hz/75Hz, 1,280 x 720@60Hz, 1,280 x 800@60Hz, 1,280 x 1,024@60Hz/75Hz (SXGA), 1,360 x 768@60Hz, 1,440 x 900@60Hz/75Hz, 1,600 x 900@60Hz, 1,680 x 1,050@60Hz, 1,920 x 1,080i@60Hz, 1,920 x 1,080p@60Hz, 1920x1440@60Hz , 2560x1440@60Hz 3840x2160p@30Hz/60Hz
	Connector	DP
DP	Available Format	640 x 480@60Hz/70Hz/72Hz/75Hz (VGA), 720 x 400@50Hz/60Hz/70Hz, 720x576@50Hz , 800 x 600@56Hz/60Hz/72Hz/75Hz (SVGA), 832 x 624@75Hz, 1,024 x 768@60Hz/70Hz/75Hz (XGA), 1,152 x 864@60Hz/75Hz, 1,280 x 720@60Hz, 1,280 x 800@60Hz, 1,280 x 1,024@60Hz/75Hz (SXGA), 1,360 x 768@60Hz, 1,440 x 900@60Hz/75Hz, 1,600 x 900@60Hz, 1,680 x 1,050@60Hz, 1,920 x 1,080i@60Hz, 1,920 x 1,080p@60Hz, 1920x1440@60Hz , 2560x1440@60Hz 3840x2160p@30Hz/60Hz
	Connector	Audio Out
Audio	Output Signal	Loop-through line level(PC only), Speakers : 2x10W
	Application Support	Remote Controller
On Screen Display (OSD)		
Functions		VESA™ DPM Compatible
Language		Korean, English, Русский, Deutsch, Français, Español, Italiano, Português, Chinese (Simplified), Chinese (Traditional), Japanese, Arabic
General		
Electrical	Input Voltage	AC 100 ~ 240V(50/60Hz)
	Power Consumption	<80W
Environmental	Operating Temperature	0 ~ +40°C (+32°F ~ +104°F)
	Operating Humidity	10% ~ 80% (non-condensing)
Mechanical	Dimensions with Stand	967.0*640.5*235.0mm
	Dimensions without Stand	967.0*560*77.0mm
	Bezel Size	8.6/16.4mm(Top/Bottom/Side)
	Weight	TBD
	Cabinet Color	Black
	Rack Mount	N/A
VESA Mounts Interface		100*100mm /400*200mm
Accessory		STAND

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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-4343	-	HANWHA VISION VIETNAM CO., LTD.	EUT
Remote Control	-	-	-	-

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
Notebook	P95G001	9JM8HT2	DELL INC.	-
Notebook Adapter	LA65NS2-01	-	LITE-ON TECHNOLOGY(CHANGZHOU)CO.,LTD.	-
Headset	K550	-	Britz®	-

1.6 External I/O Cabling

■ HDMI / DP Mode

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
LED MONITOR (EUT)	HDMI	Notebook	HDMI	1.6	S
	DP	Notebook	USB C Type	1.7	S
	3.5 mm	Headset	3.5 mm	1.8	U
Notebook	DC Jack	Notebook Adapter	DC Jack	1.5	U

* Unshielded = U, Shielded = S

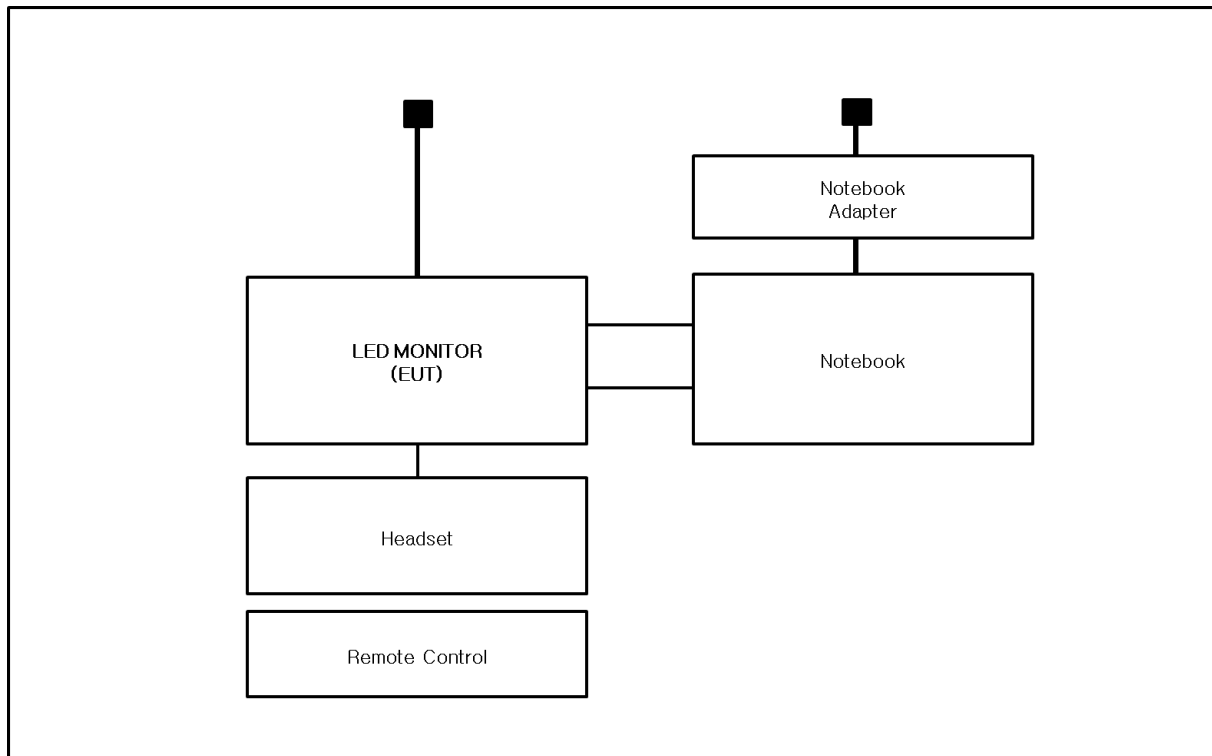
1.7 EUT Operating Mode(s)

Test mode	operating
HDMI / DP	Play the color bar video during the test.

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

1.8 Configuration

- AC Main
□ DC Main
- HDMI / DP 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

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

Jan. 26, 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: (23,1 ± 0,0) °C

Relative Humidity: (42,0 ± 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

Remarks

See Appendix A for test data.

2.2 Radiated Electric Field Emissions(Below 1 GHz)

Test Date

Jan. 26, 2022

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	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: (23,2 ± 0,1) °C

Relative Humidity: (43,1 ± 0,2) % 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

Jan. 26, 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 ± 0,1) °C

Relative Humidity: (42,8 ± 0,4) % 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

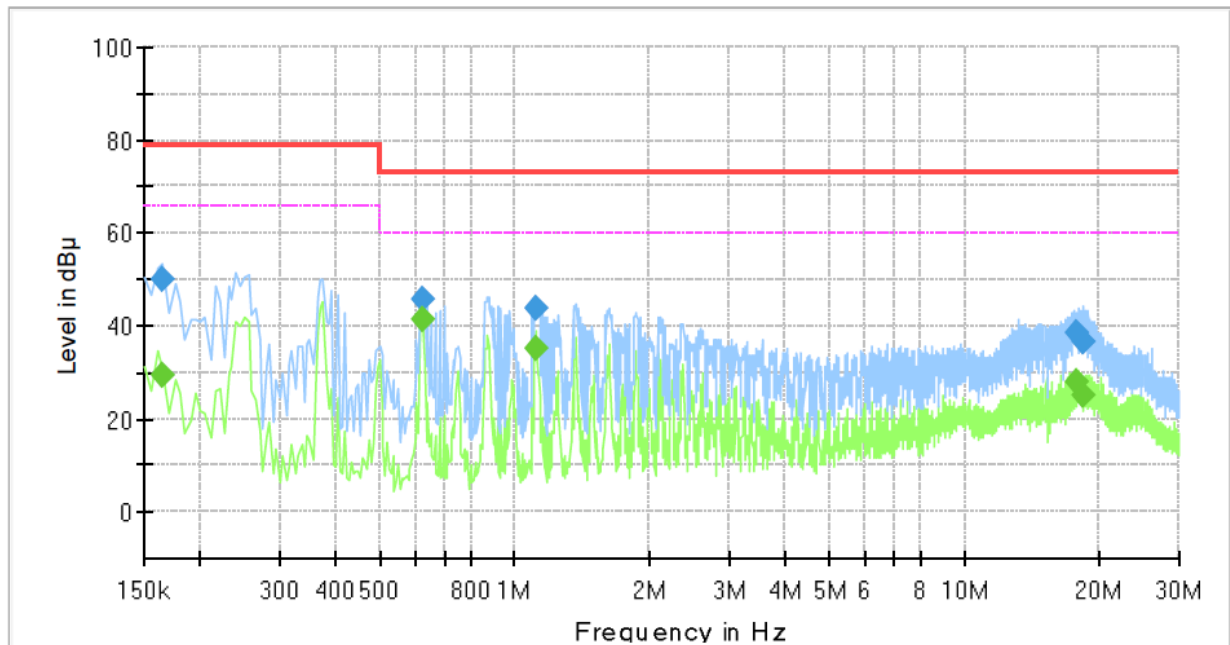
Conducted Emissions at Mains Power Ports

■ HDMI Mode

HOT LINE

Common Information

Test Description:	Conducted Emission
Model No.:	SMT-4343
Phase:	HDMI
Mode:	H
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	---	29.40	66.00	36.60	1000.0	9.000	L1	19.5
0.165000	49.96	---	79.00	29.04	1000.0	9.000	L1	19.5
0.620000	---	41.48	60.00	18.52	1000.0	9.000	L1	19.9
0.620000	45.74	---	73.00	27.26	1000.0	9.000	L1	19.9
1.110000	---	35.11	60.00	24.89	1000.0	9.000	L1	20.1
1.110000	43.71	---	73.00	29.29	1000.0	9.000	L1	20.1
17.740000	---	27.97	60.00	32.03	1000.0	9.000	L1	20.0
17.740000	38.57	---	73.00	34.43	1000.0	9.000	L1	20.0
18.310000	---	25.02	60.00	34.98	1000.0	9.000	L1	20.1
18.310000	36.78	---	73.00	36.22	1000.0	9.000	L1	20.1

NEUTRAL LINE

Common Information

Test Description:

Model No.:

Phase:

Mode:

Operator Name:

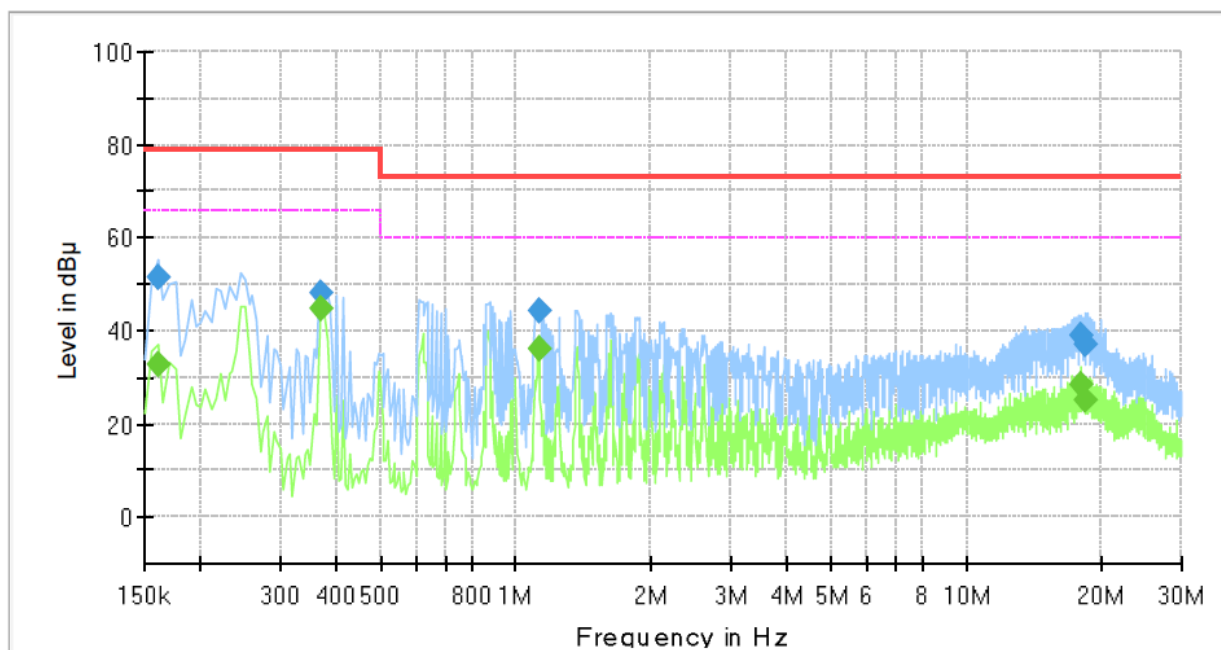
Conducted Emission

SMT-4343

HDMI

N

KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.160000	---	32.75	66.00	33.25	1000.0	9.000	N	19.4
0.160000	51.47	---	79.00	27.53	1000.0	9.000	N	19.4
0.370000	---	44.99	66.00	21.01	1000.0	9.000	N	19.6
0.370000	48.08	---	79.00	30.92	1000.0	9.000	N	19.6
1.125000	---	35.95	60.00	24.05	1000.0	9.000	N	20.1
1.125000	44.20	---	73.00	28.80	1000.0	9.000	N	20.1
17.955000	---	28.44	60.00	31.56	1000.0	9.000	N	20.1
17.955000	39.08	---	73.00	33.92	1000.0	9.000	N	20.1
18.300000	---	25.05	60.00	34.95	1000.0	9.000	N	20.1
18.300000	37.29	---	73.00	35.71	1000.0	9.000	N	20.1

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■ DP Mode

HOT LINE

Common Information

Test Description:

Model No.:

Phase:

Mode:

Operator Name:

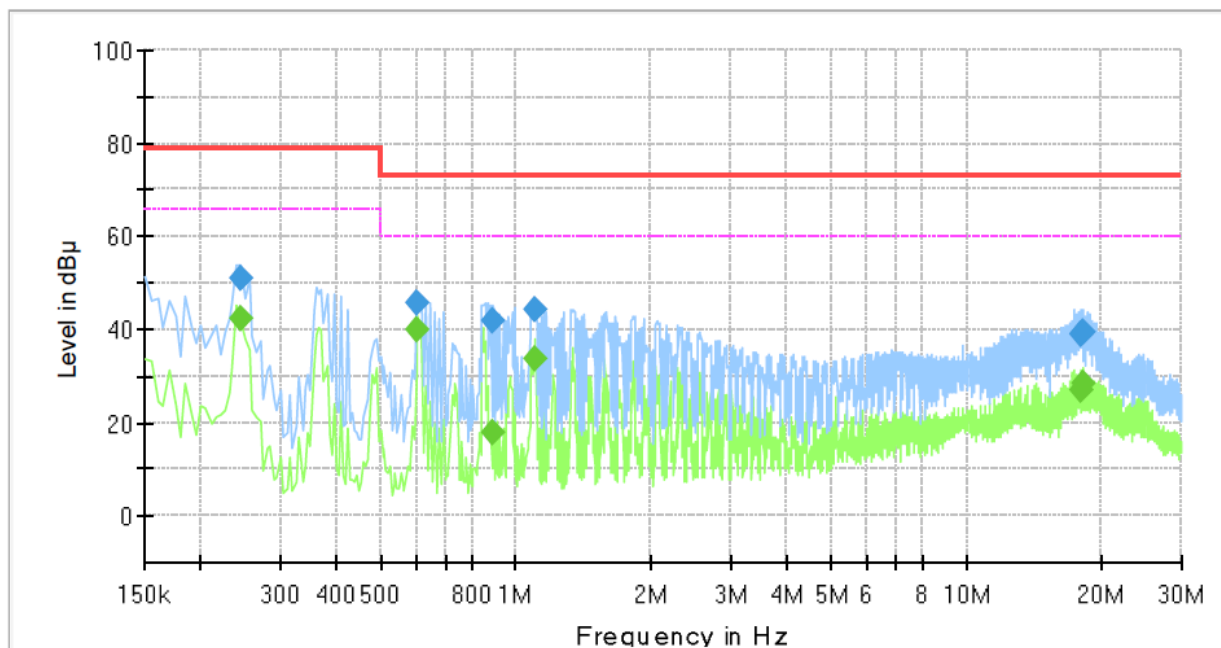
Conducted Emission

SMT-4343

H

DP

KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.245000	---	42.24	66.00	23.76	1000.0	9.000	L1	19.5
0.245000	50.85	---	79.00	28.15	1000.0	9.000	L1	19.5
0.605000	---	39.74	60.00	20.26	1000.0	9.000	L1	19.9
0.605000	45.56	---	73.00	27.44	1000.0	9.000	L1	19.9
0.890000	---	17.85	60.00	42.15	1000.0	9.000	L1	20.1
0.890000	41.76	---	73.00	31.24	1000.0	9.000	L1	20.1
1.105000	---	33.68	60.00	26.32	1000.0	9.000	L1	20.1
1.105000	44.07	---	73.00	28.93	1000.0	9.000	L1	20.1
17.920000	---	27.18	60.00	32.82	1000.0	9.000	L1	20.0
17.920000	39.04	---	73.00	33.96	1000.0	9.000	L1	20.0
18.120000	---	28.47	60.00	31.53	1000.0	9.000	L1	20.1
18.120000	39.26	---	73.00	33.74	1000.0	9.000	L1	20.1

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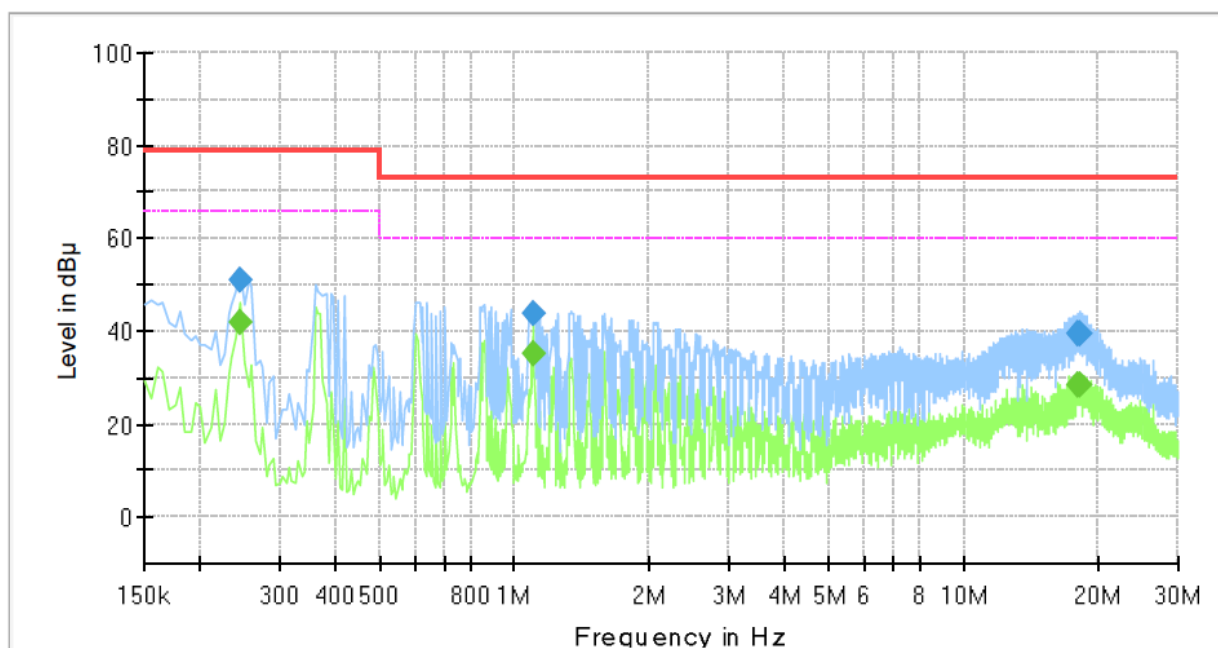
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NEUTRAL LINE

Common Information

Test Description:	Conducted Emission
Model No.:	SMT-4343
Phase:	N
Mode:	DP
Operator Name:	KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.245000	---	42.02	66.00	23.98	1000.0	9.000	N	19.5
0.245000	50.99	---	79.00	28.01	1000.0	9.000	N	19.5
1.100000	---	35.37	60.00	24.63	1000.0	9.000	N	20.1
1.100000	43.95	---	73.00	29.05	1000.0	9.000	N	20.1
17.880000	---	28.60	60.00	31.40	1000.0	9.000	N	20.0
17.880000	39.58	---	73.00	33.42	1000.0	9.000	N	20.0
18.140000	---	28.30	60.00	31.70	1000.0	9.000	N	20.1
18.140000	39.27	---	73.00	33.73	1000.0	9.000	N	20.1

◆ Calculation

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

QuasiPeak / CAverage : The Final Value

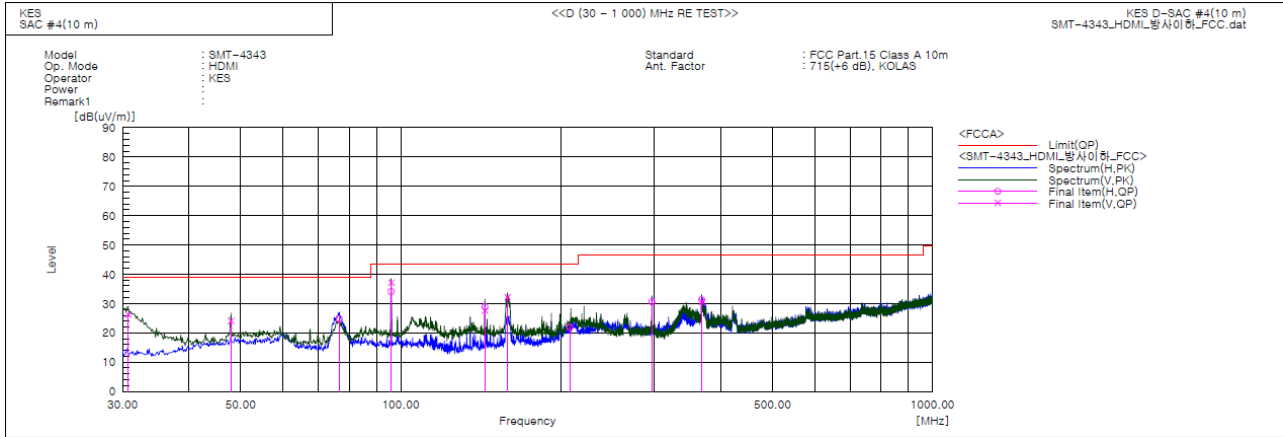
Reading Value : Not shown in the table.

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

Radiated Electric Field Emissions(Below 1 GHz)

- 47 CFR Part 15, Subpart B

■ HDMI 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	30.728	V	51.3	-25.0	26.3	39.0	12.7	103.0	72.0	
2	47.945	V	45.1	-21.0	24.1	39.0	14.9	109.0	68.0	
3	76.681	H	52.0	-27.2	24.8	39.0	14.2	400.0	8.0	
4	95.960	H	57.3	-23.2	34.1	43.5	9.4	309.0	309.0	
5	95.971	V	60.4	-23.2	37.2	43.5	6.3	105.0	255.0	
6	143.975	H	54.2	-25.3	28.9	43.5	14.6	356.0	132.0	
7	143.995	V	52.9	-25.3	27.6	43.5	15.9	158.0	308.0	
8	158.768	V	56.9	-24.7	32.2	43.5	11.3	100.0	211.0	
9	207.995	H	42.5	-20.6	21.9	43.5	21.6	391.0	268.0	
10	296.629	H	48.6	-18.0	30.6	46.5	15.9	308.0	189.0	
11	367.924	H	46.1	-14.8	31.3	46.5	15.2	301.0	46.0	
12	368.409	V	45.4	-14.8	30.6	46.5	15.9	197.0	42.0	

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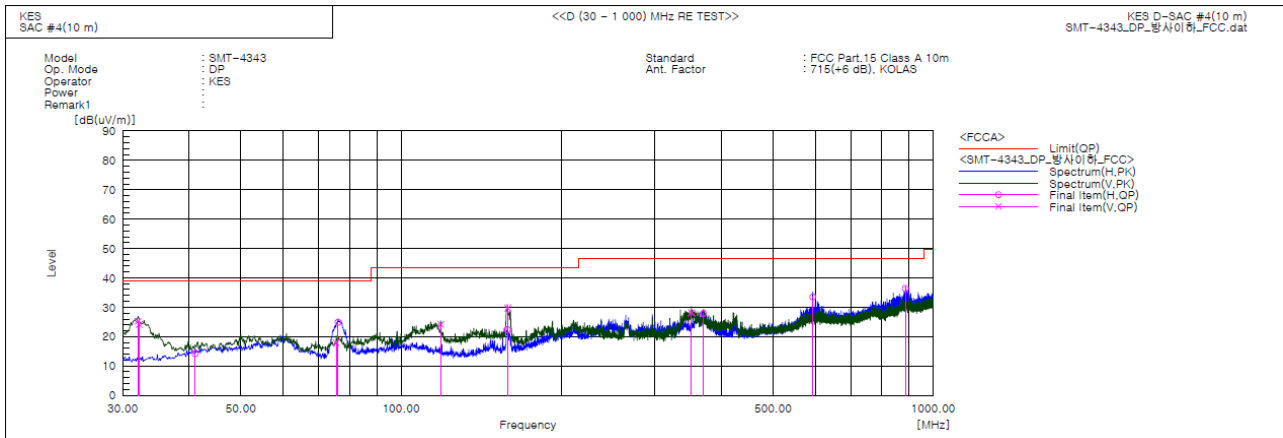
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Report No.:

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DP 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	32.061	V	50.0	-24.7	25.3	39.0	13.7	187.0	216.0	
2	32.194	V	48.9	-24.7	24.2	39.0	14.8	100.0	216.0	
3	41.034	H	36.2	-22.0	14.2	39.0	24.8	400.0	337.0	
4	75.590	V	44.8	-26.9	17.9	39.0	21.1	103.0	61.0	
5	76.196	H	52.0	-27.1	24.9	39.0	14.1	392.0	164.0	
6	118.755	V	48.0	-23.8	24.2	43.5	19.3	152.0	212.0	
7	158.404	H	47.1	-24.7	22.4	43.5	21.1	400.0	224.0	
8	158.684	V	54.4	-24.7	29.7	43.5	13.8	100.0	151.0	
9	351.191	V	43.3	-15.1	28.2	46.5	18.3	197.0	345.0	
10	369.379	H	42.7	-14.8	27.9	46.5	18.6	395.0	341.0	
11	593.449	H	41.9	-8.4	33.5	46.5	13.0	352.0	303.0	
12	886.146	H	40.6	-4.2	36.4	46.5	10.1	351.0	344.0	

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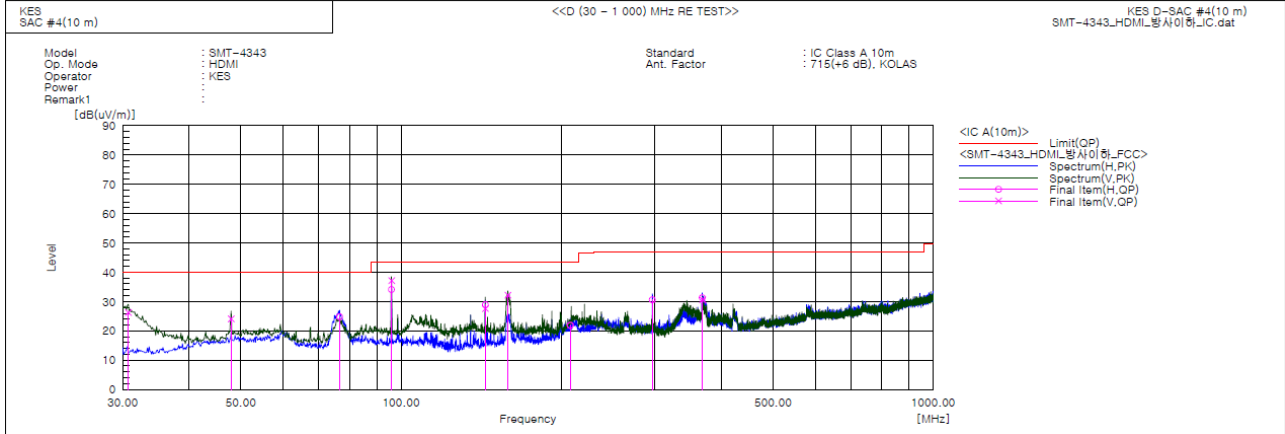
Report No.:

KES-EM-22T0189-R1

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- IC Regulation ICES-003 Issue 7

■ HDMI Mode



Final Result

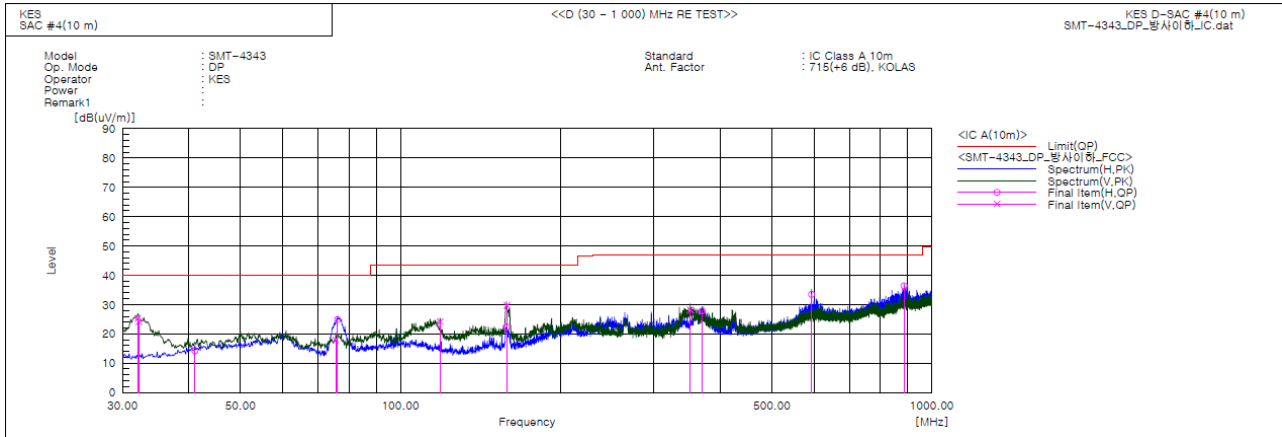
No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	30.728	V	51.3	-25.0	26.3	40.0	13.7	103.0	72.0	
2	47.945	V	45.1	-21.0	24.1	40.0	15.9	109.0	68.0	
3	76.681	H	52.0	-27.2	24.8	40.0	15.2	400.0	8.0	
4	95.960	H	57.3	-23.2	34.1	43.5	9.4	309.0	309.0	
5	95.971	V	60.4	-23.2	37.2	43.5	6.3	105.0	255.0	
6	143.975	H	54.2	-25.3	28.9	43.5	14.6	356.0	132.0	
7	143.995	V	52.9	-25.3	27.6	43.5	15.9	158.0	308.0	
8	158.768	V	56.9	-24.7	32.2	43.5	11.3	100.0	211.0	
9	207.995	H	42.5	-20.6	21.9	43.5	21.6	391.0	268.0	
10	296.629	H	48.6	-18.0	30.6	47.0	16.4	308.0	189.0	
11	367.924	H	46.1	-14.8	31.3	47.0	15.7	301.0	46.0	
12	368.409	V	45.4	-14.8	30.6	47.0	16.4	197.0	42.0	

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DP 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	32.061	V	50.0	-24.7	25.3	40.0	14.7	187.0	216.0	
2	32.194	V	48.9	-24.7	24.2	40.0	15.8	100.0	216.0	
3	41.034	H	36.2	-22.0	14.2	40.0	25.8	400.0	337.0	
4	75.590	V	44.8	-26.9	17.9	40.0	22.1	103.0	61.0	
5	76.196	H	52.0	-27.1	24.9	40.0	15.1	392.0	164.0	
6	118.755	V	48.0	-23.8	24.2	43.5	19.3	152.0	212.0	
7	158.404	H	47.1	-24.7	22.4	43.5	21.1	400.0	224.0	
8	158.684	V	54.4	-24.7	29.7	43.5	13.8	100.0	151.0	
9	351.191	V	43.3	-15.1	28.2	47.0	18.8	197.0	345.0	
10	369.379	H	42.7	-14.8	27.9	47.0	19.1	395.0	341.0	
11	593.449	H	41.9	-8.4	33.5	47.0	13.5	352.0	303.0	
12	886.146	H	40.6	-4.2	36.4	47.0	10.6	351.0	344.0	

◆ 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)]

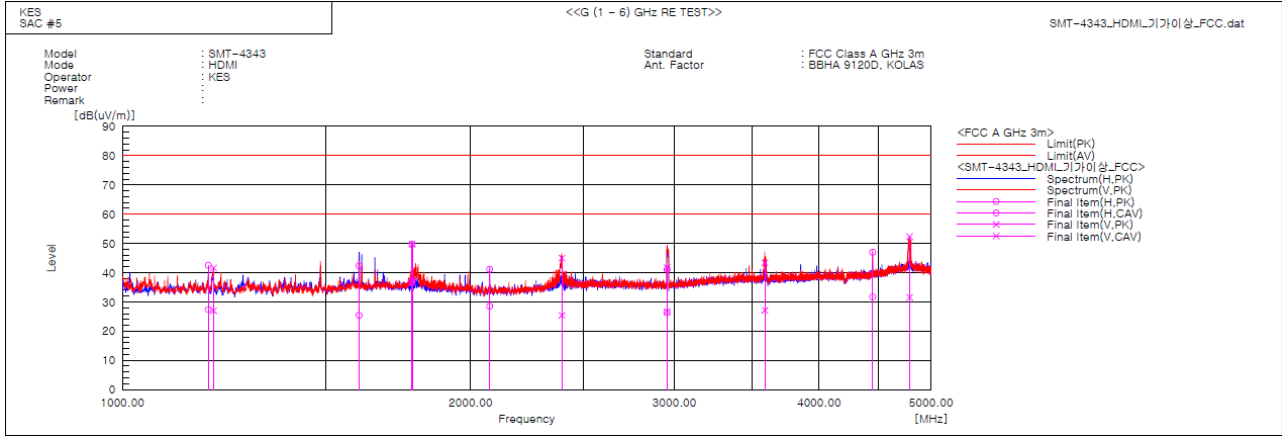
Reading(QP) : Reading value, Result(QP) : Reading value + Factor value

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



Radiated Electric Field Emissions(Above 1 GHz)

■ HDMI 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	1186.262	H	49.5	34.4	-7.0	42.5	27.4	80.0	60.0	37.5	32.6	301.0	96.2	
2	1198.750	V	48.5	33.9	-6.9	41.6	27.0	80.0	60.0	38.4	33.0	103.0	45.9	
3	1601.875	H	47.2	30.3	-4.9	42.3	25.4	80.0	60.0	37.7	34.6	305.0	140.8	
4	1780.000	H	53.9	41.2	-4.2	49.7	37.0	80.0	60.0	30.3	23.0	400.0	156.5	
5	1780.225	V	53.9	41.0	-4.2	49.7	36.8	80.0	60.0	30.3	23.2	100.0	197.6	
6	2076.875	H	44.5	31.8	-3.3	41.2	28.5	80.0	60.0	38.8	31.5	352.0	165.3	
7	2396.992	V	47.0	27.4	-2.0	45.0	25.4	80.0	60.0	35.0	34.6	152.0	280.3	
8	2956.612	H	41.2	26.4	0.0	41.2	26.4	80.0	60.0	38.8	33.6	300.0	329.3	
9	2956.875	V	41.7	26.7	0.0	41.7	26.7	80.0	60.0	38.3	33.3	192.0	59.3	
10	3590.023	V	42.5	26.2	0.9	43.4	27.1	80.0	60.0	36.6	32.9	117.0	289.0	
11	4450.625	H	43.1	27.8	3.9	47.0	31.7	80.0	60.0	33.0	28.3	393.0	58.7	
12	4789.375	V	47.1	26.4	5.2	52.3	31.6	80.0	60.0	27.7	28.4	185.0	161.6	

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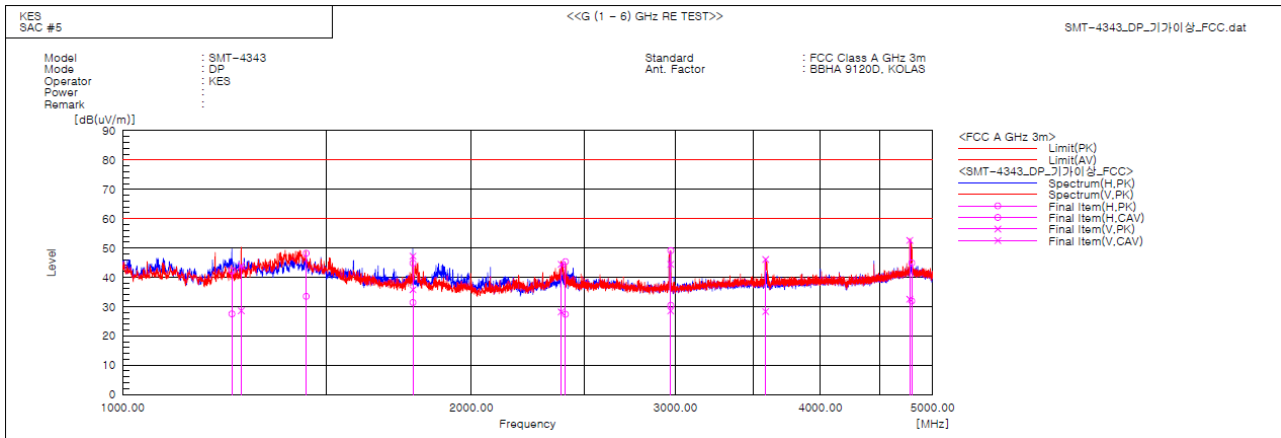
3701, 40, Simin-daero 365beon-gil,
Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea
Tel: +82-31-425-6200 / Fax: +82-31-424-0450
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DP Mode



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	1242.585	H	48.9	34.2	-6.7	42.2	27.5	80.0	60.0	37.8	32.5	301.0	305.5	
2	1265.952	V	50.5	35.2	-6.6	43.9	28.6	80.0	60.0	36.1	31.4	105.0	108.5	
3	1440.165	H	53.8	39.1	-5.6	48.2	33.5	80.0	60.0	31.8	26.5	400.0	43.2	
4	1780.315	H	49.0	35.6	-4.2	44.8	31.4	80.0	60.0	35.2	28.6	300.0	43.2	
5	1780.392	V	51.4	40.0	-4.2	47.2	35.8	80.0	60.0	32.8	24.2	109.0	197.3	
6	2390.006	V	46.4	30.2	-2.0	44.4	28.2	80.0	60.0	35.6	31.8	156.0	325.9	
7	2410.625	H	47.2	29.3	-1.9	45.3	27.4	80.0	60.0	34.7	32.6	354.0	306.9	
8	2971.362	V	44.3	28.4	0.1	44.4	28.5	80.0	60.0	35.6	31.5	198.0	49.5	
9	2971.952	H	49.0	30.3	0.1	49.1	30.4	80.0	60.0	30.9	29.6	309.0	330.9	
10	3588.125	V	45.2	27.4	0.9	46.1	28.3	80.0	60.0	33.9	31.7	192.0	129.0	
11	4777.559	V	47.5	27.4	5.1	52.6	32.5	80.0	60.0	27.4	27.5	153.0	155.7	
12	4796.885	H	39.7	26.7	5.2	44.9	31.9	80.0	60.0	35.1	28.1	315.0	102.0	

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



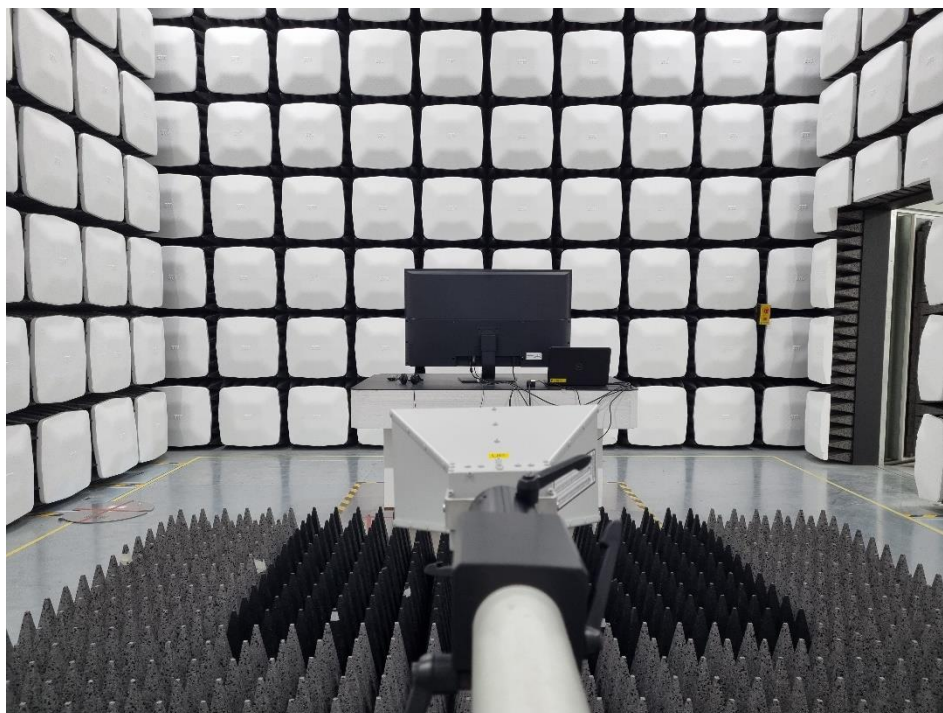
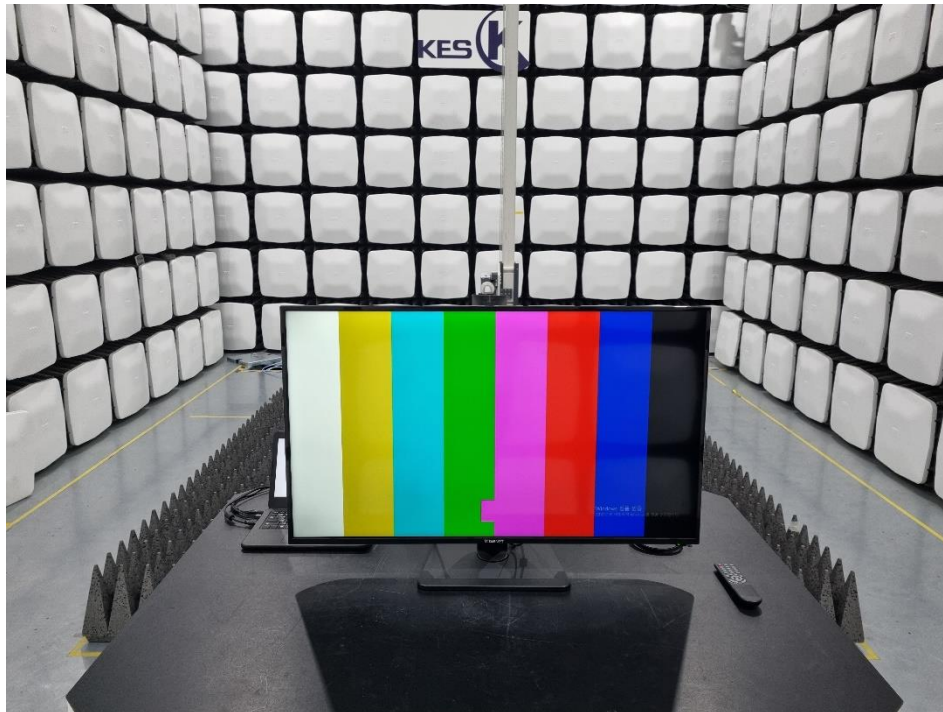
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Radiated Electric Field Emissions(Below 1 GHz)



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Radiated Electric Field Emissions(Above 1 GHz)



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EUT External Photographs

(Top)



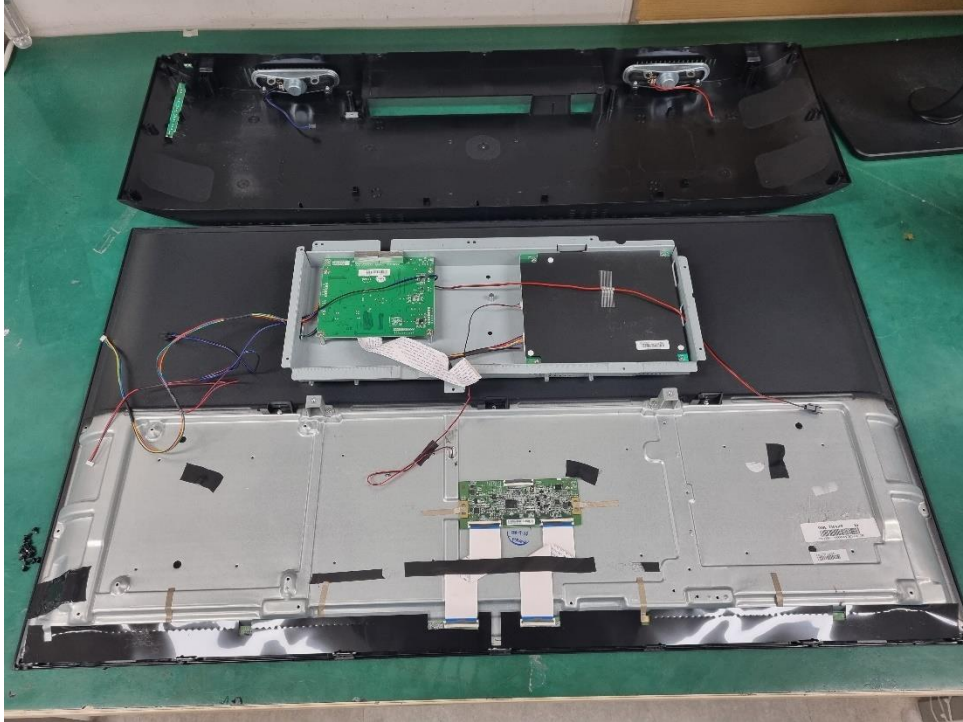
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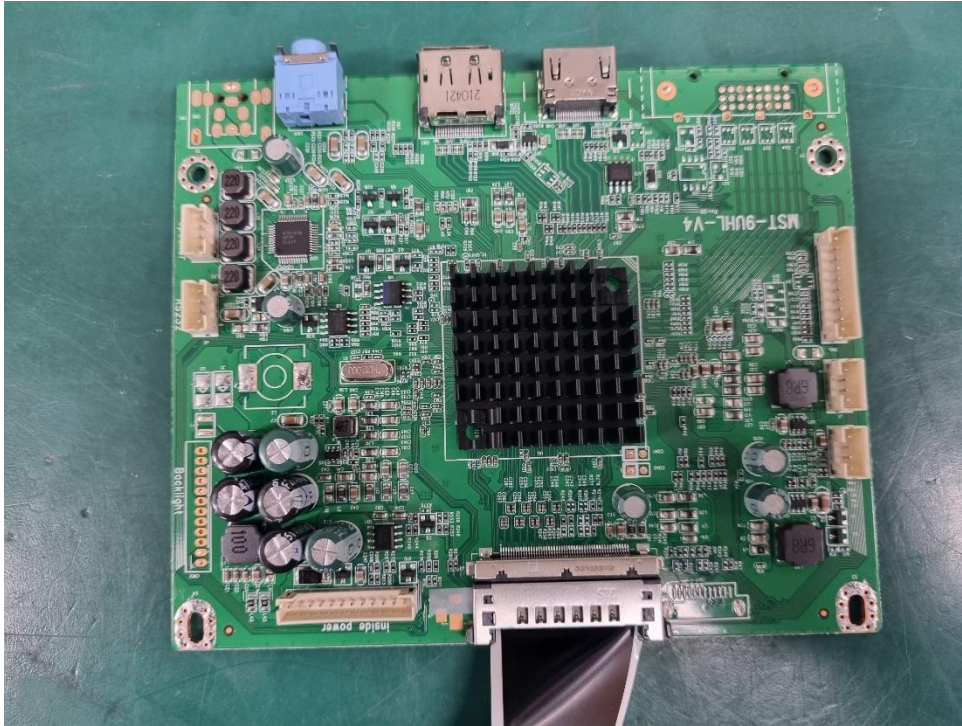
(Internal View)



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EUT Internal View – Board 1

(Top)



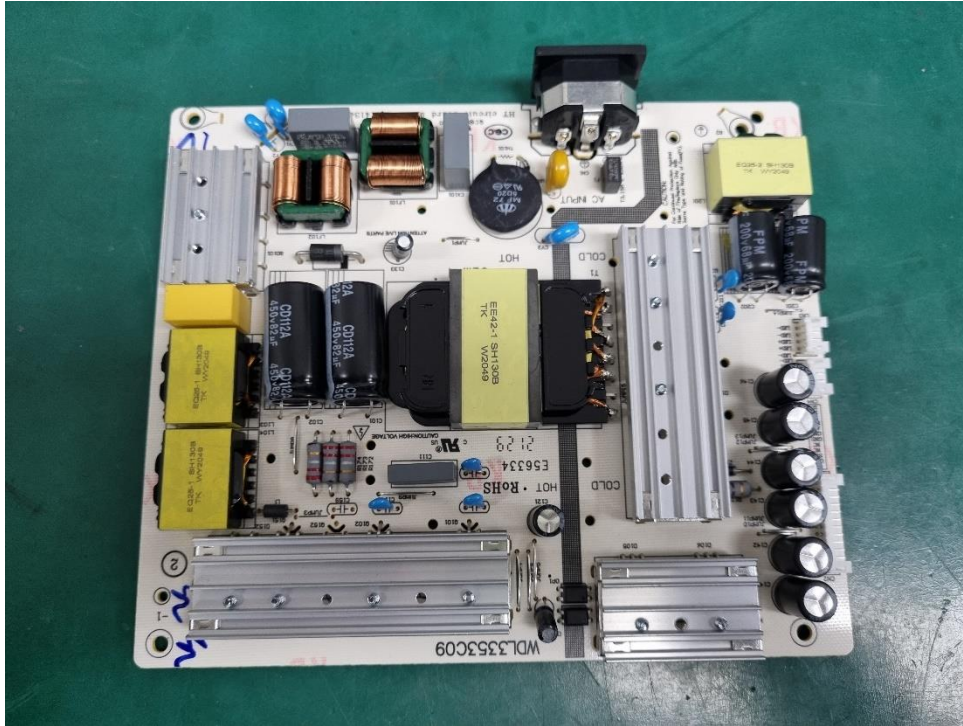
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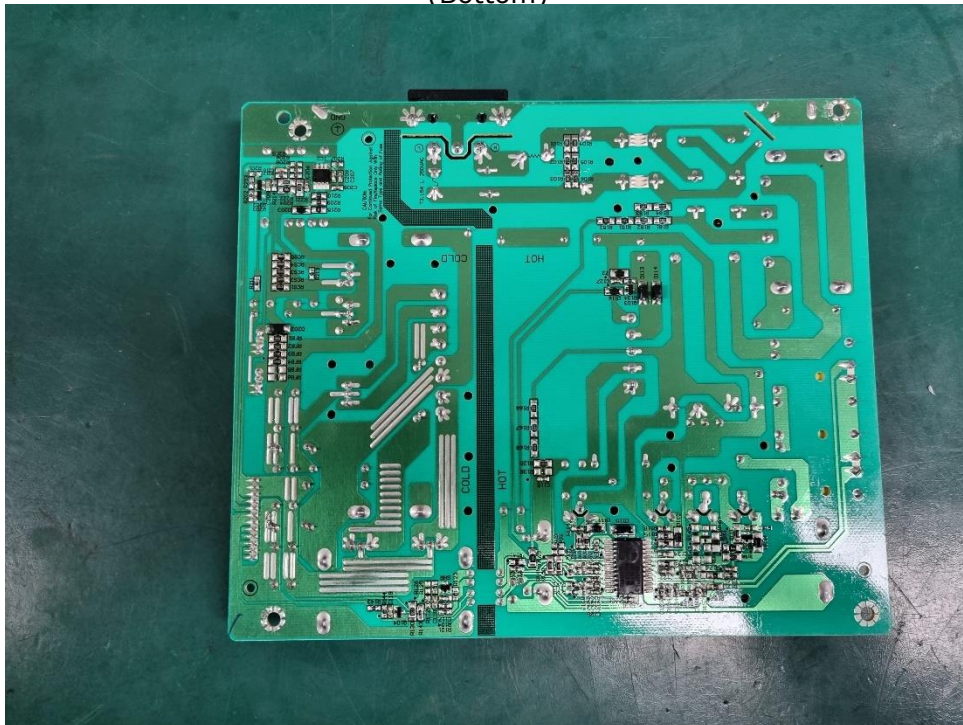
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EUT Internal View – Board 2

(Top)



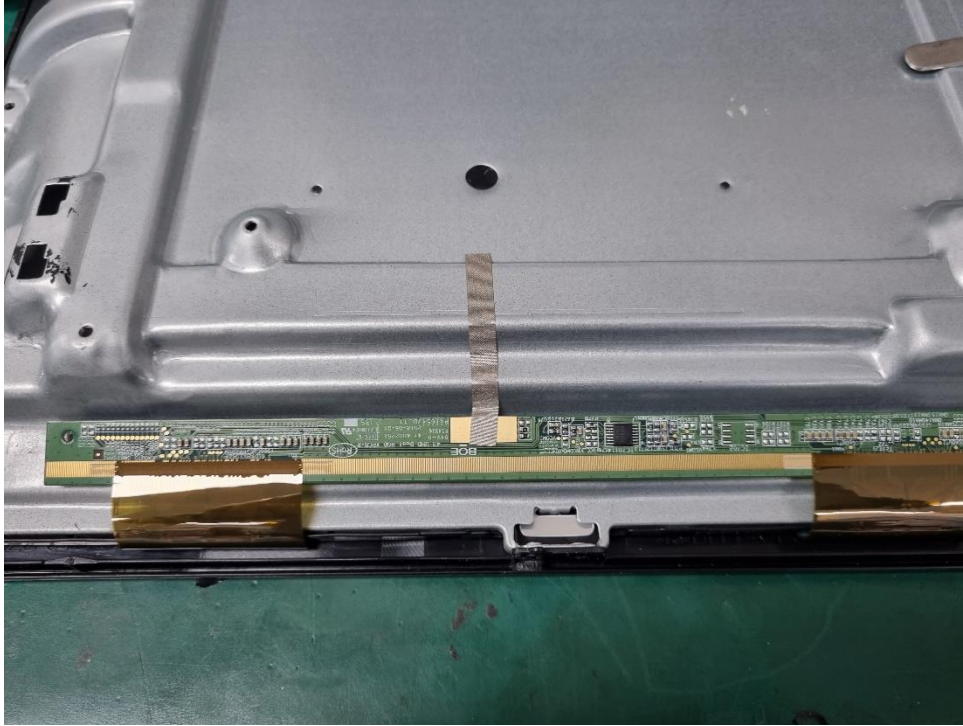
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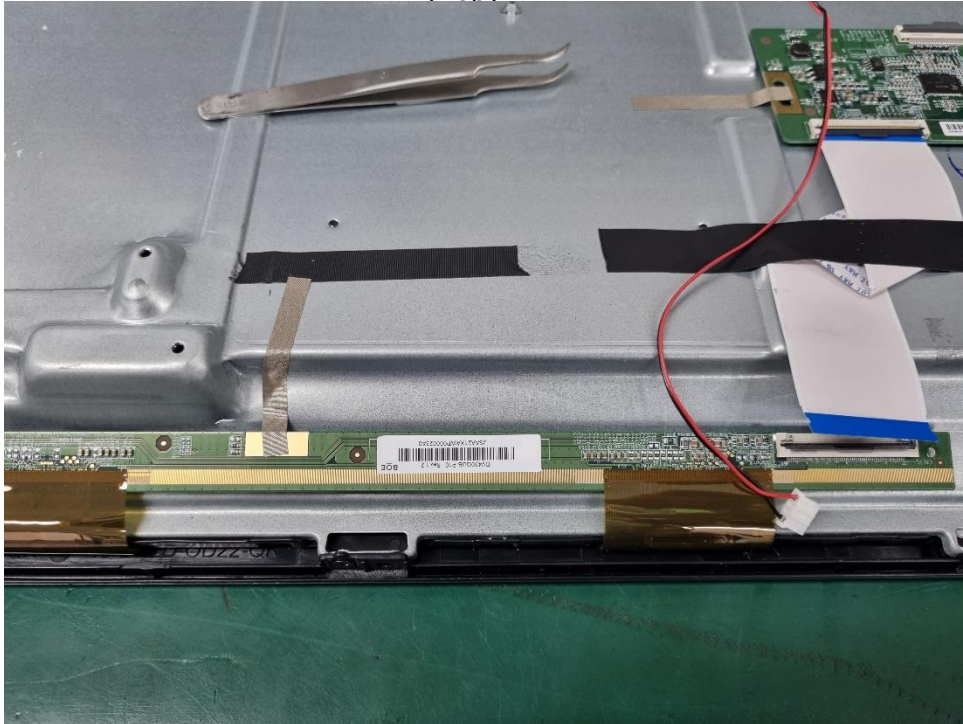
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EUT Internal View – Board 3

(Top) - 1



(Top) - 2



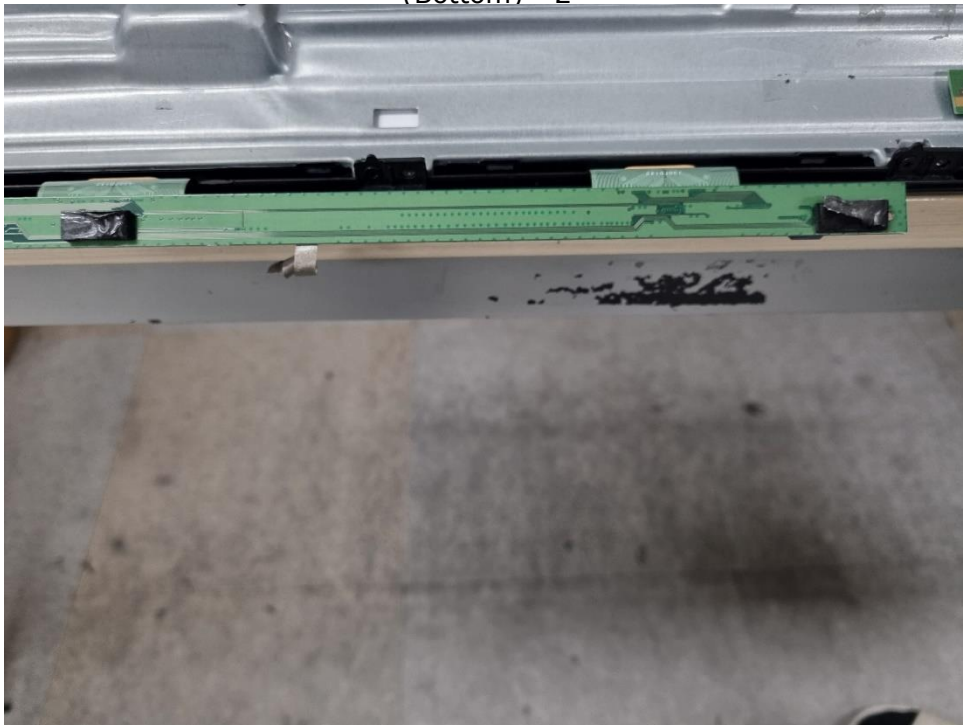
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EUT Internal View – Board 3

(Bottom) - 1



(Bottom) - 2



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EUT Internal View – Board 4

(Top) - 1



(Top) - 2



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EUT Internal View – Board 4

(Bottom) - 1



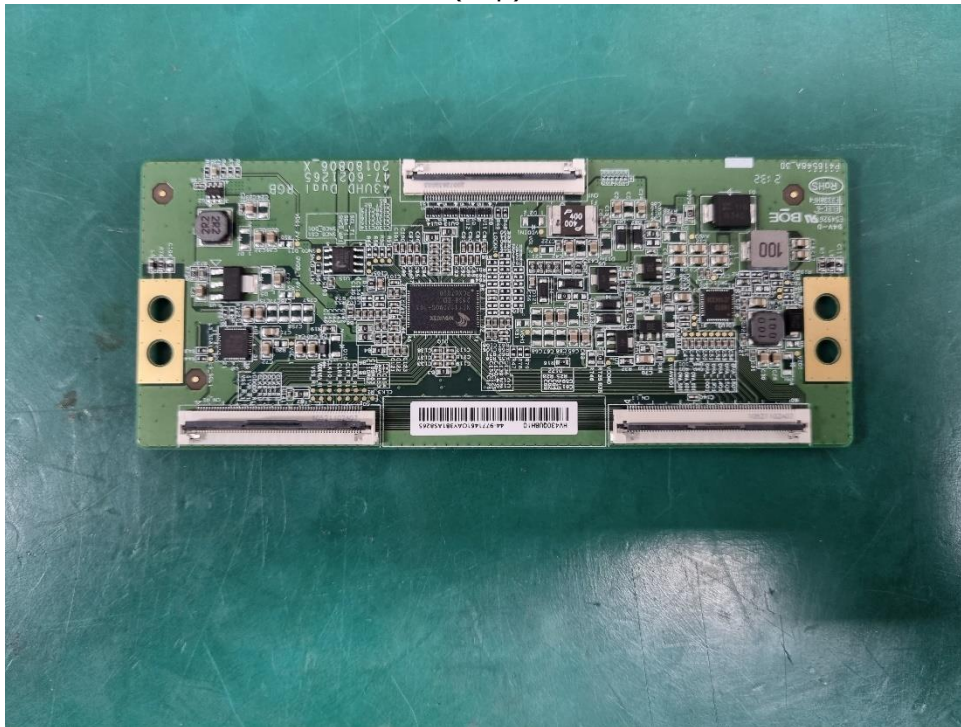
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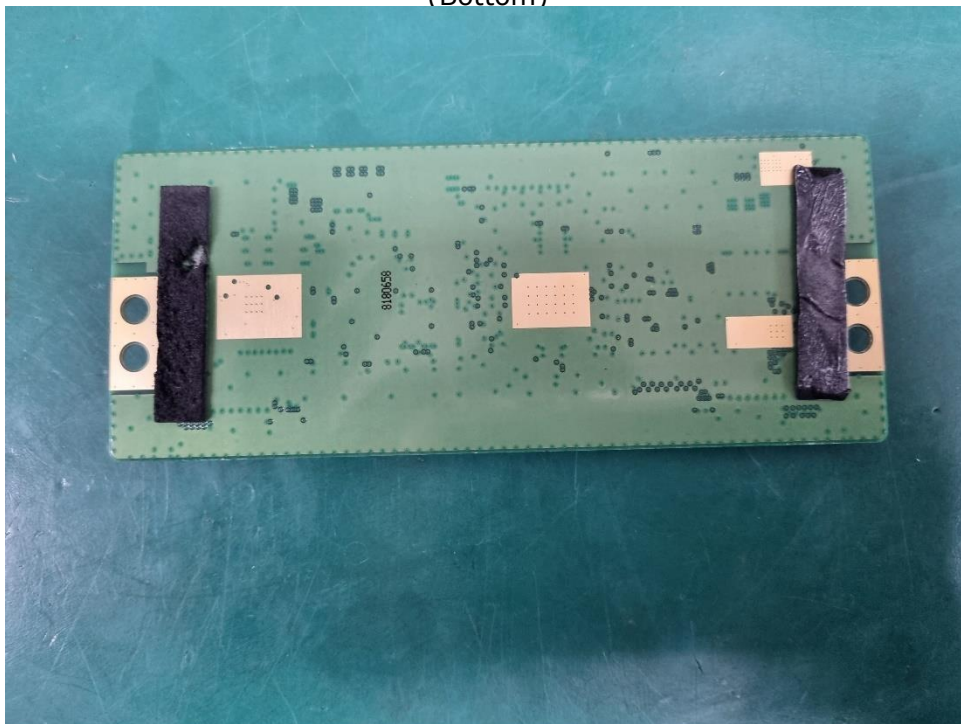
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EUT Internal View – Board 5

(Top)



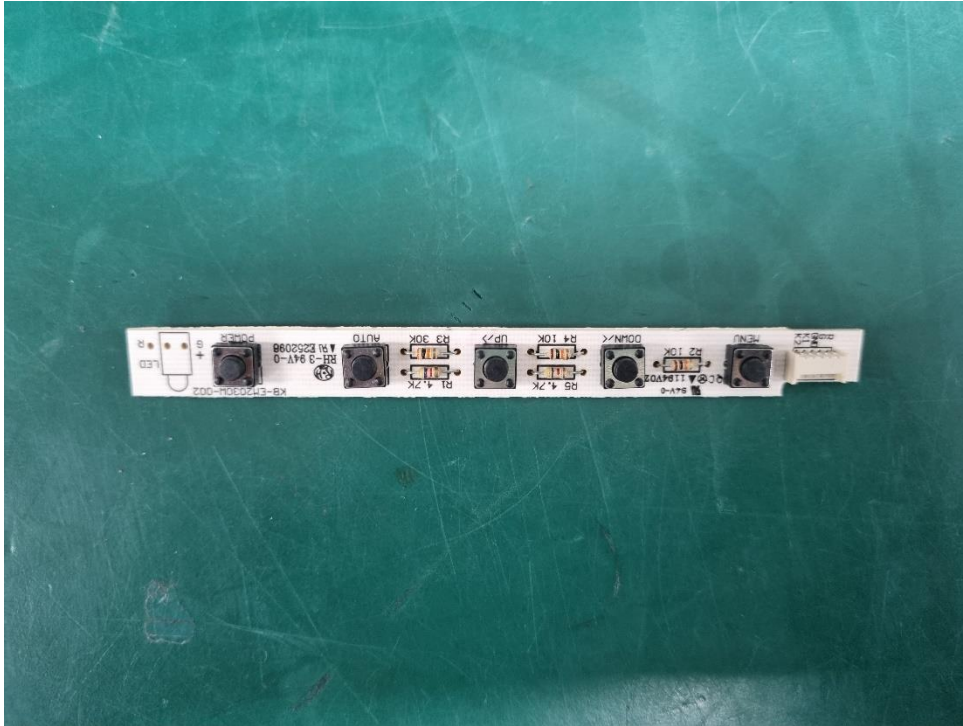
(Bottom)



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EUT Internal View – Board 6

(Top)



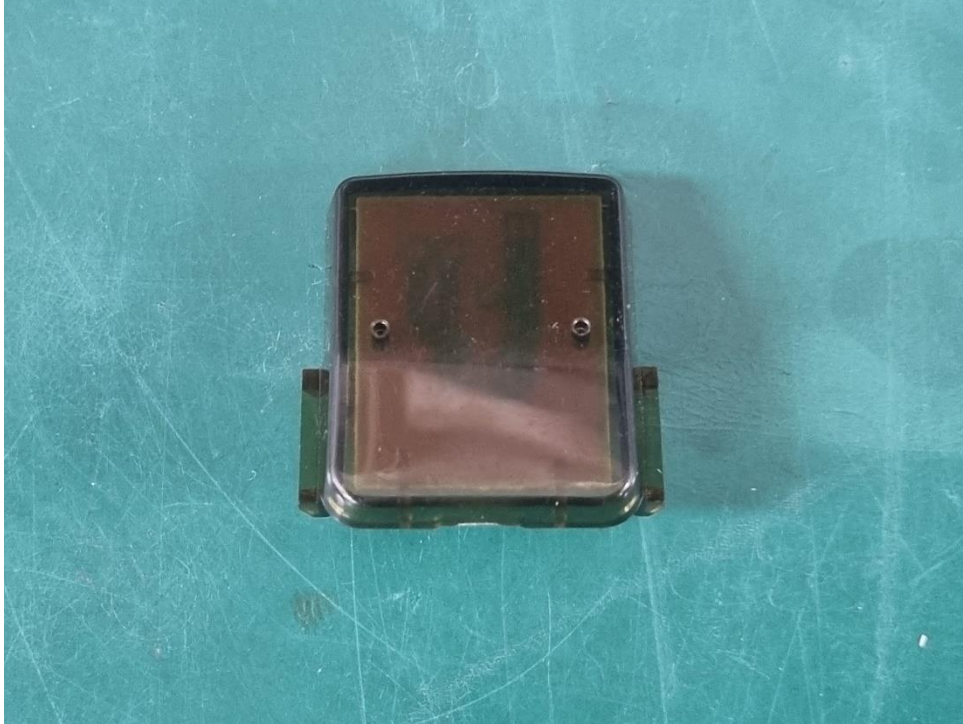
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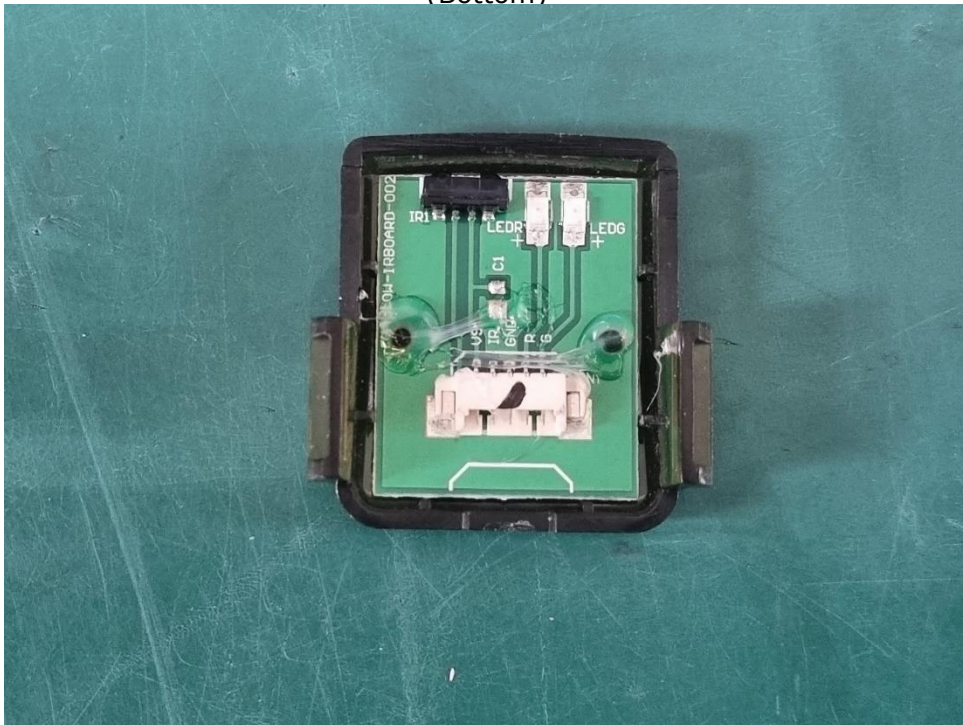
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EUT Internal View – Board 7

(Top)



(Bottom)



Label Photographs



CAN ICES-3(A) / NMB-3(A)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

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.