



EMC TEST REPORT For IC

Test Report No. : KES-E1-16T0275
Date of Issue : Jun. 21, 2016
Product name : NETWORK VIDEO RECORDER
Model/Type No. : XRN-1610SN
Variant Model : -
Applicant : Hanwha Techwin Co., Ltd.
Applicant Address : 1204, Changwon-daero, Seongsan-gu, Changwon-si,
Gyeongsangnam-do, Korea
Manufacturer : Tianjin Samsung Techwin Opto-Electronic Co., Ltd.
Manufacturer Address : No.11 Weiliu Rd, Micro-Electronic Industrial Park, TEDA,
Tianjin, 300385, People's Republic of China
Date of Receipt : Jun. 02, 2016
Test date : Jun. 13, 2016 ~ Jun. 14, 2016
Test Results : ☒ **In Compliance** ☐ **Not in Compliance**

Tested by

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REPORT REVISION HISTORY

Date	Test Report No.	Revision History
Jun. 23, 2016	KES-E1-16T0275	Issued

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1.0 General Product Description

Main Specifications of EUT are:

Model		XRN-1611S	
Display			
Network Camera	Inputs	Max. 16CH	
	Resolution	CIF ~ 12MP	
	Fish-Eye Devarping	N/A (processed on Web / CMS)	
	Protocols	Samsung, ONVIF	
Live	Local Display	1x HDMI / 1x VGA Dual Monitor	
	Multi-Channel Display	[Local Monitor] 1 / 4 / 8 / 9 / 13 / 16 / Auto Sequence [Web] 1 / 4 / 9 / 16 / Auto Sequence	
	Performance	[Local Monitor] 12MP (30fps) 8MP (120fps) 5MP (180fps), 3MP (240fps), 2MP (480fps), 720p (480fps), D1 (480fps)	
		[Web] 5MP (30fps), 3MP (60fps), 2MP (120fps), 720p (240fps), D1 (480fps)	
Performance			
Operating System	Embedded	Linux	
Record	Compression	H.265, H.264, MJPEG	
	Recording Bandwidth	128Mbps	
	Resolution	CIF ~ 12MP	
	Type	Manual, Schedule(Continuous Event), Event (Pre/Post)	
	Event Trigger	- Alarm Input(8) - Video Loss - Camera Event(Sensor, MD, Video Analytics) - VA Event(Tampering, Enter/Exit, Passing/Virtual-Line, Appearing/Disappearing, Face Detection, Audio Detection) - Defocus Camera Event	
		Event Action	
	e-Mail, PTZ Preset, Alarm Out, Buzzer, Monitor Out		
Search & Play	Playback Bandwidth	32Mbps (16ch simultaneously)	
	Performance	Max. 3 Users (Remote 3)	
	Mode	Date & Time(Calendar) Event Log list Text Search(POS, ANPR)	
		Simultaneous playback	
	Up to 16CH (Local, Network)		
	Resolution	CIF ~ 12MP	
	Fish-Eye Devarping	N/A (processed on Web / CMS)	
	Playback Control	FastStop Forward Backward, Move one step up/down	
	Storage	Default Built-in	0TB ~ 8TB (TBD, dependent on region)
Internal		4 SATA	
Hot Swap		N/A	
External(DAS)		1 e-SATA	
External(NAS, iSCSI)		iSCSI	
Max Capacity		Internal (32TB+4x8TB)	
RAID		N/A	
Backup	File backup	BU/EXE(USB), JPG/AVI/Web, CMS	
	Function	Max. 16CH Play, Date-Time/Title display	
Sensor	I/O	B4 (NO 3EA, NC/NC 1EA)	
Audio	Input	16CH (network)	
	Compression	G.711, G.726, AAC(16/48KHz)	
Audio Communication		2-Way (pass-through between camera and SSM)	

Network		
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, DHCP(Server, Client), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPrP, HTTPS, SNMP, ONVIF Profile S, SUNAPI(Server, Client)	
DDNS	Pols DDNS	
Transmission Bandwidth	Max. 256Mbps (iSCSI off) (128Mbps, iSCSI on)	
Max Remote Users	Search(3) / Live unicast(10) / Live multicast(20)	
IP Version	IPv4/v6	
Security	User access Log IP Filtering 802.1x Encryption(ID/PW, Recording, Transmission, Backup)	
	Language	GUI
Web		
OS	(1) English, (2) French, (3) German, (4) Italian, (5) Spanish, (6) Russian, (7) Turkish, (8) Polish, (9) Dutch, (10) Swedish, (11) Czech, (12) Portuguese, (13) Danish, (14) Rumanian, (15) Serbian, (16) Croatian, (17) Hungarian, (18) Greek, (19) Norwegian, (20) Finnish, (21) Korean, (22) Chinese, (23) Japanese, (24) Thai	
Web Browser	(1) English, (2) French, (3) German, (4) Italian, (5) Spanish, (6) Russian, (7) Turkish, (8) Polish, (9) Dutch, (10) Swedish, (11) Czech, (12) Portuguese, (13) Danish, (14) Rumanian, (15) Serbian, (16) Croatian, (17) Hungarian, (18) Greek, (19) Norwegian, (20) Finnish, (21) Korean, (22) Chinese, (23) Japanese	
	Supported OS : Windows XP(service pack 2 or above), Vista, 7, 8, 10, Mac OS X(10.7 or above)	
Viewer Software	Type	SSM, Webviewer, Smart Viewer, iPolis Mobile
	CMS Support	Support SDK/CGI(SUNAPI)
Smart phone	Support Model	i-Phone, Android
	Protocol Support	RTP, RTSP, HTTP, CGI(SUNAPI)
	Control	Live(16ch) : Multi-Profile Support Playback(1ch, Max 2MP)
	Max. Remote Users	Search (3), Live Unicast (10), Multicast (20)
Functions		
Camera Setup	Register	1) PrP mode 2) Manual mode
	Setup items	(1) IP Address, Add Profile Edit, Bitrate, Compression, GOP, Quality (2) Camera Event Setup - MD - VA : Tampering, Enter/Exit, Passing/Virtual-Line, Appearing/Disappearing, Face Detection, Audio Detection (3) Video Setup(Simple Focus, Brightness/Contrast, Flip/Mirror, IRIS, WDR, D&N, SSNR, Shutter, SSOR, DIS) (4) Fisheye Devarping, Halfway View Setup, Camera Webpage
Camera Control	PoE	1) Monitor PoE Power consumption 2) On/Off Control for each PoE camera 3) Remote Reset for each PoE camera
	Time Sync.	NTP Time Protocol for PoE Camera (Time sync based on NTP time)
Easy Configuration		Setup Wizard (Language, Date/Time, Network, Auto Camera Configuration) * selectable between PrP and Manual mode



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.

Voltage ☐ 100 Vac ☒ 120 Vac ☐ 277 Vac ☐ 24 Vac ☐ 12 Vdc

Frequency ☐ 50 Hz ☒ 60 Hz ☐ 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
NETWORK VIDEO RECORDER	XRN-1610SN	-	Tianjin Samsung Techwin Opto-Electronic Co.,Ltd.	E.U.T
Mouse	-	-	-	-
HDD	WD10PURX	WCC4J4EX436	WD	-
POWER	DPS-280AB-6 A	HIED1609002094	Delta Electronics Power(Dongguan) Co., Ltd.	-

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1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
Monitor 1	LS23C340	ZXPCHTMF B01032M	SAMSUNG	-
Monitor adapter 1	A2514_DPN	CN07BN4400591 BSK28F6NF841	11ssan Elecom(shen yang) Co., Ltd	-
Monitor 2	SMT-2232	C95V67VF90002 5B	Weiha Daewoo Electronics Co., Ltd.	-
Notebook	LG15N54	410NZET022292	LG	-
Adapter	ADP-90WH B	84ZW19F1557	DELTA ELECTRONICS(JIANGSU) LTD.	-
Camera	SND-L6013RN	-	SAMSUNG TECHWIN CO.,LTD.	-
Speaker	-	-	MASS	-
Alarm 1	SIP-1201DD DO	C53R67JZ301878 L	SAMSUNG TECHWIN CO.,LTD.	-
Alarm 2	SIE-0001 DO	C54167JB601268 F	SAMSUNG TECHWIN CO.,LTD.	-
External HDD	MDT-US2528	-	-	-
3.0 USB Memory	-	-	Transcend	16GB

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1.6 External I/O Cabling

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
NETWORK VIDEO RECORDER (E.U.T)	RJ-45	Notebook	RJ-45	3.0	U
	D-SUB	Monitor 1	D-SUB	1.5	S
	HDMI	Monitor 2	HDMI	1.7	S
	Audio Out	Speaker	Audio OUT	1.2	U
	USB	Mouse	USB	1.2	U
	RJ-45	Camera	RJ-45	4.0	S
	Alarm IN	Alarm 1	Alarm IN	3.0	U
	Alarm OUT	Alarm 2	Alarm OUT	3.0	U
	e-SATA	External HDD	e-SATA	0.5	U
	3.0 USB	3.0 USB Memory	3.0 USB	-	-

* Unshielded = U, Shielded = S

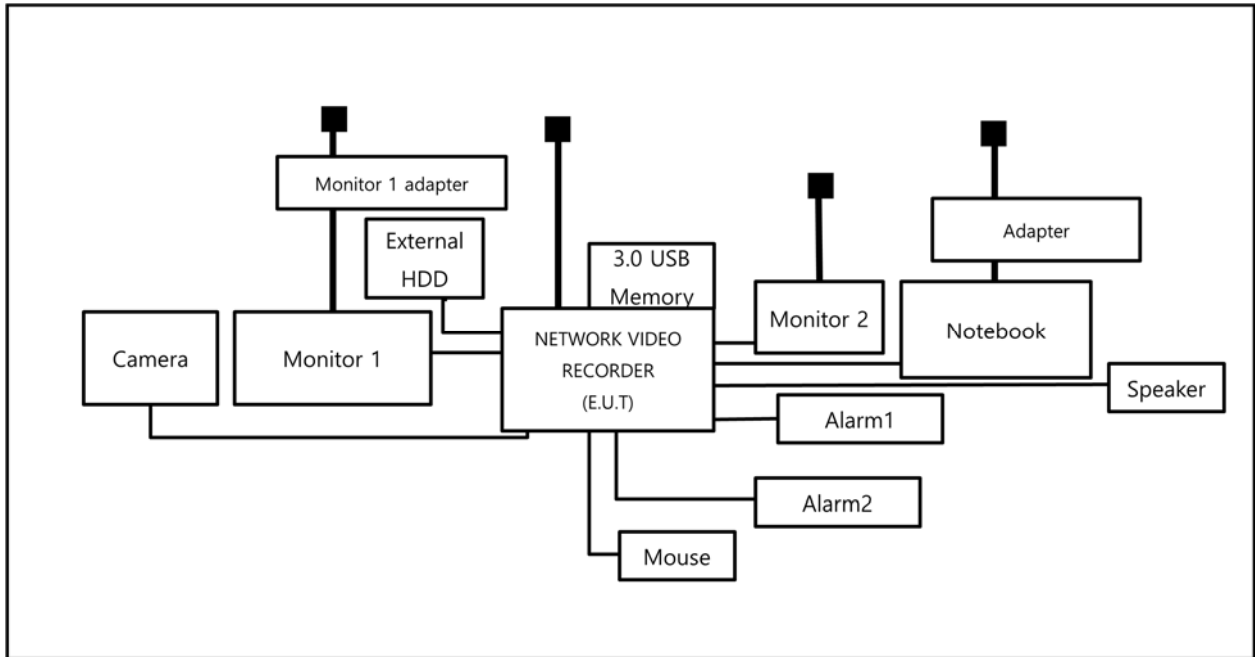
1.7 EUT Operating Mode(s)

Equipment under test was operated during the measurement under the following conditions:

Test mode	Normal operating
OP	Tested by checking the movement whether it works well or not, with executing Ping test in a Notebook and outputting an image to a monitor after arrangement E.U.T with peripheral device as follows.

1.8 Configuration

■ AC Main
□ DC Main



1.9 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.

1.10 Test Facility

The measurement facility is located at 473-29 Gayeo-ro, Yeosu-si, Gyeonggi-do, 12658, Korea. The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22.

1.11 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Logo
USA	FCC	3 & 10 meter Open Area Test Sites and one conducted site to perform FCC Part 15/18 measurements.	
JAPAN	VCCI	Mains Ports Conducted Interference Measurement, Telecommunication Ports Conducted Disturbance Measurement and Radiation 10 meter site, Facility for measuring radiated disturbance above 1 GHz	 R-4308, C-4798, T-2311, G-914
KOREA	MSIP	EMI (10 meter Open Area Test Site and two conducted sites) Radio(3 & 10 meter Open Area Test Sites and one conducted site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 KR0100
Canada	IC	3 & 10 meter Open Area Test Sites and one conducted site	 4769B-1
Europe	CE	EMI (10 meter Open Area Test Site and two conducted sites) Radio(3 & 10 meter Open Area Test Sites and one conducted site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	
International	KOLAS	EMI (10 meter Open Area Test Site and two conducted sites) Radio(3 & 10 meter Open Area Test Sites and one conducted site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	

2.0 Test Regulations

The emissions tests were performed according to following regulations:

☒ **EMC – Directive 2014/30/EU**

☐ EN 61000-6-3:2011

☐ EN 61000-6-1:2007

☐ EN 61000-6-4:2007 +A1:2011

☐ EN 61000-6-2:2005

☐ EN 55011:2007 +A1:2010

☐ Group 1
☐ Class A

☐ Group 2
☐ Class B

☐ EN 55014-1:2006 +A2:2011

☐ EN 55014-2:1997 +A2:2008

☐ EN 55015:2013

☐ EN 55022:2010

☐ Class A

☐ Class B

☐ EN 55024:2010

☐ EN 50130-4:2011 +A1:2014

☐ EN 61000-3-2:2014

☐ EN 61000-3-3:2013

☐ EN 61326-1:2013

☐ VCCI V-3 / 2013.04

☐ Class A

☐ Class B

☐ AS/NZS CISPR22:2009 +A1:2010

☐ Class A

☐ Class B

☐ 47 CFR Part 15, Subpart B / ANSI C63.4-2009

☐ Class A

☐ Class B

☒ IC Regulation ICES-003 : 2012
/ ANSI C63.4-2014

☒ Class A

☐ Class B

☐ CISPR 22:2009 +A1:2010

☐ Class A

☐ Class B



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☐ **R&TTE- Directive 1999/5/EC**

☐ EN 301 489-1 V1.9.2

- ☐ Equipment for fixed use
- ☐ Equipment for vehicular use
- ☐ Equipment for portable use

☐ EN 301 489-3 V1.6.1

☐ EN 301 489-17 V2.2.1

☐ EN 60945:2002

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2.1 Conducted Emissions at Mains Power Ports

Test Date

Jun. 13, 2016

Test Location

Electro wave Shieldroom

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test Receiver	ESR3	R&S	101783	05, 03, 2017
☒	LISN	ENV216	R&S	101137	02, 04, 2017
☒	LISN	ENV216	R&S	101786	05, 02, 2017
☒	Electro wave Shieldroom	-	SEMITEC	-	-

Test Conditions

Temperature: 27,8 °C

Relative Humidity: 50,1 %

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. 13, 2016

Test Location

☐ Open Area Test Site #1 ☒ Open Area Test Site #2

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test Receiver	ESR3	R&S	101781	05, 03, 2017
☒	Trilog-Broadband ANT	VULB 9163	SCHWARZBECK	9163-715	04, 14, 2018
☒	Open Area Test Site	-	KES	-	-
☒	Antenna Mast	1070/1080	EMCO	-	-
☒	Turn Table	-	DAEIL EMC	-	-

Test Conditions

Temperature: 28,1 °C

Relative Humidity: 68,0 %

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. 14, 2016

Test Location

Semi Anchoic Chamber #2

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	DOUBLE RIDGED HORN ANTENNA	SAS-571	A.H.SYSTEM,INC	781	05, 07, 2017
☒	EMI Test Receiver	ESU26	R&S	100552	04, 24, 2017
☒	Broadband Coaxial Preamplifier	BBV 9718	Schwarzbeck Mess - Elektronik	9718-246	10, 23, 2016
☒	Semi Anchoic Chamber #2	-	SEMITEC	-	-
☒	Antenna Mast	-	AUDIX	-	-
☒	Turn Table	-	AUDIX	-	-

Test Conditions

Temperature: 29,2 °C
Relative Humidity: 51,5 %

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.

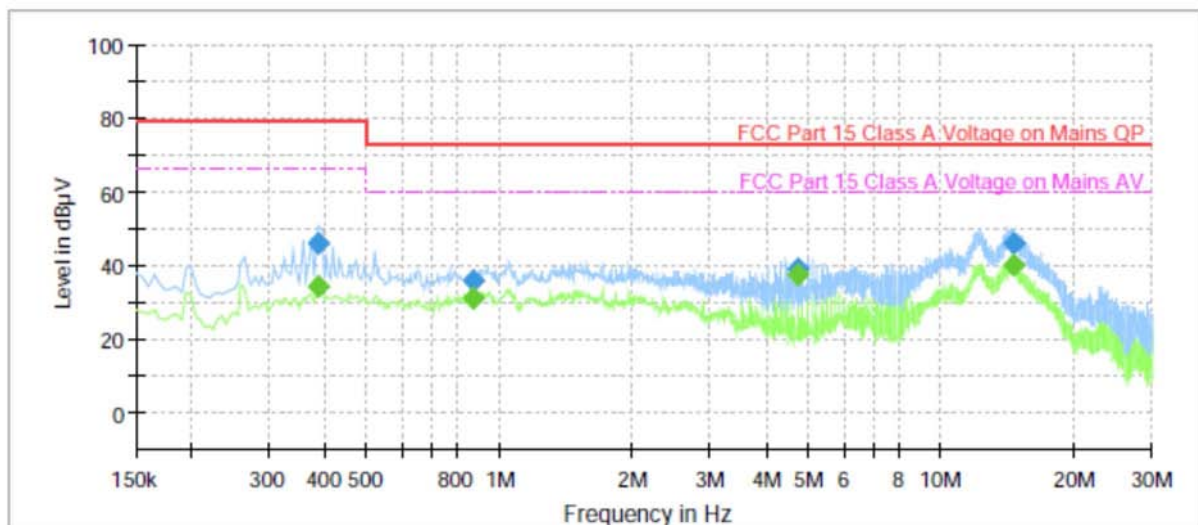
APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

[HOT]

Common Information

Test Description: Conducted Emission
Model No.: XRN-1610SN
Mode
Operator Name: KES



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.390000	---	34.28	66.00	31.72	1000.0	9.000	L1	9.7
0.390000	46.27	---	79.00	32.73	1000.0	9.000	L1	9.7
0.870000	---	31.24	60.00	28.76	1000.0	9.000	L1	9.7
0.870000	35.83	---	73.00	37.17	1000.0	9.000	L1	9.7
4.720000	---	37.79	60.00	22.21	1000.0	9.000	L1	9.8
4.720000	39.42	---	73.00	33.58	1000.0	9.000	L1	9.8
14.570000	---	40.39	60.00	19.61	1000.0	9.000	L1	10.0
14.570000	46.02	---	73.00	26.98	1000.0	9.000	L1	10.0



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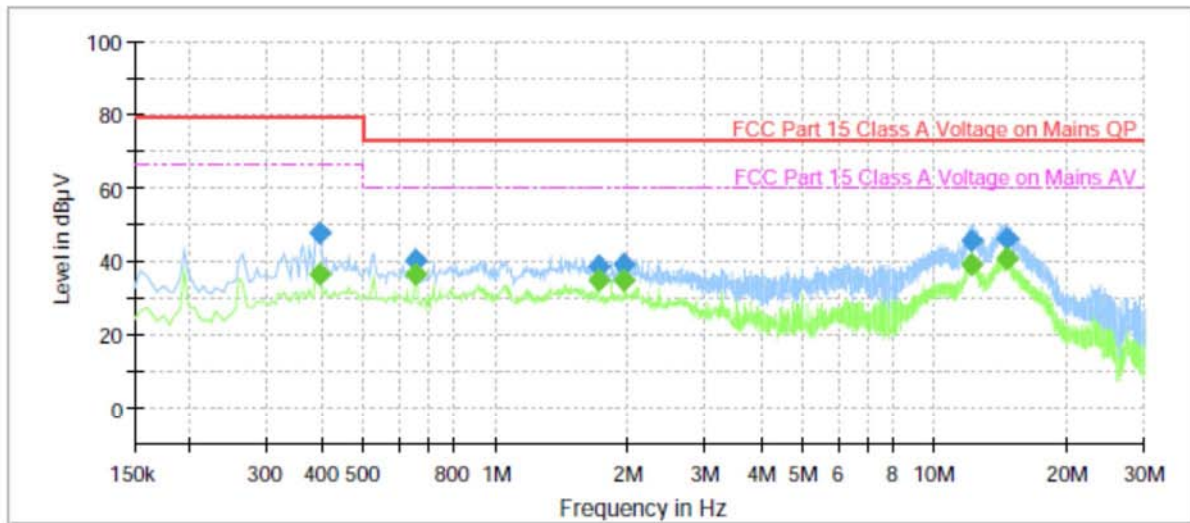
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[NEUTRAL]

Common Information

Test Description: Conducted Emission
Model No.: XRN-1610SN
Mode
Operator Name: KES



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.395000	---	36.73	66.00	29.27	1000.0	9.000	N	9.6
0.395000	47.75	---	79.00	31.25	1000.0	9.000	N	9.6
0.655000	---	36.80	60.00	23.20	1000.0	9.000	N	9.7
0.655000	40.42	---	73.00	32.58	1000.0	9.000	N	9.7
1.705000	---	34.75	60.00	25.25	1000.0	9.000	N	9.7
1.705000	38.87	---	73.00	34.13	1000.0	9.000	N	9.7
1.965000	---	34.69	60.00	25.31	1000.0	9.000	N	9.7
1.965000	39.14	---	73.00	33.86	1000.0	9.000	N	9.7
12.165000	---	39.41	60.00	20.59	1000.0	9.000	N	10.0
12.165000	45.69	---	73.00	27.31	1000.0	9.000	N	10.0
14.630000	---	40.54	60.00	19.46	1000.0	9.000	N	10.1
14.630000	46.02	---	73.00	26.98	1000.0	9.000	N	10.1

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Radiated Electric Field Emissions(Below 1 GHz)

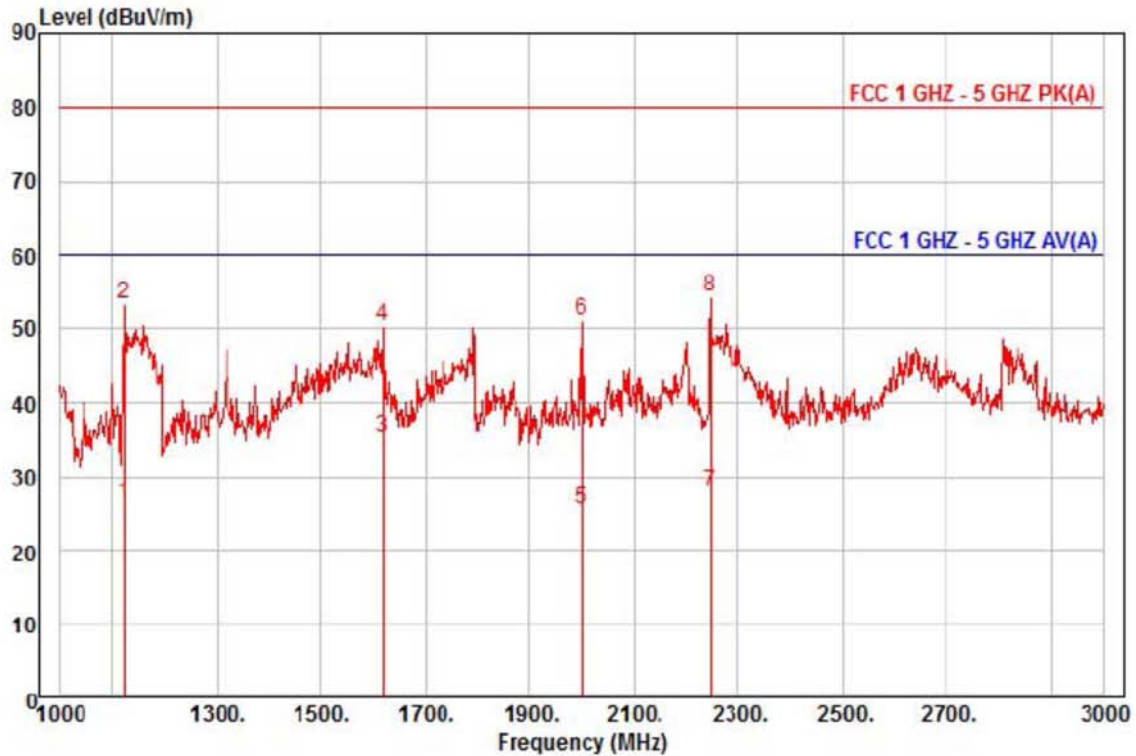
Frequency	Amplitude	ANT	ANT. Height	Correction Factor		Corrected Amplitude	Applicable Limit	Margin
[MHz]	[dB μ V]	Polar. (H/V)	[m]	ANT. [dB/m]	Cable [dB]	[dB μ V/m]	[dB μ V/m]	[dB]
149.18	16.31	V	1.00	8.19	2.46	26.96	43.50	16.54
250.36	15.52	H	4.00	12.56	3.33	31.41	46.40	14.99
325.52	12.44	V	1.00	13.95	3.80	30.19	46.40	16.21
350.12	16.48	H	4.00	14.49	3.89	34.86	46.40	11.54
446.83	11.90	V	1.00	16.38	4.56	32.84	46.40	13.56
475.25	12.10	H	4.00	16.87	4.77	33.74	46.40	12.66

* H : Horizontal, V : Vertical

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Radiated Electric Field Emissions(Above 1 GHz)



Site : chamber
Condition: FCC 1 GHz - 5 GHz PK(A) 3m HORN781(2015.05.07) horizontal
: RBW:1000.000kHz VBW:1000.000kHz SWT:Auto
Project :
Model : XRN-1610SN
Mode :
Memo :

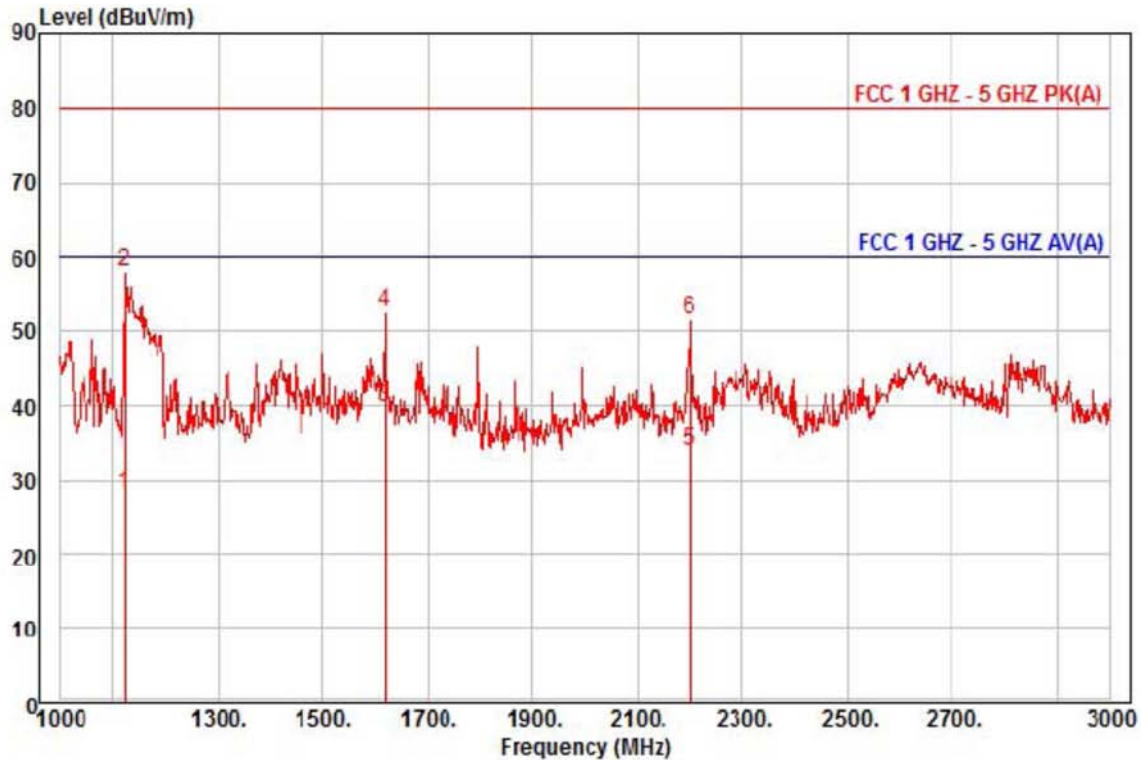
	Freq	Read Level	Ant Factor	Cable Loss	Preamplifier Factor	TPos	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	deg	dBuV/m	dB		
1	1122.00	35.14	24.39	6.86	40.06	348	60.00	-33.67	horizontal	Average
2	1122.00	61.94	24.39	6.86	40.06	348	80.00	-26.87	horizontal	Peak
3 pp	1620.00	40.09	26.37	8.31	39.82	21	60.00	-25.05	horizontal	Average
4	1620.00	55.49	26.37	8.31	39.82	21	80.00	-29.65	horizontal	Peak
5	2000.00	27.95	27.88	9.35	39.63	150	60.00	-34.45	horizontal	Average
6	2000.00	53.32	27.88	9.35	39.63	150	80.00	-29.08	horizontal	Peak
7	2246.00	29.42	28.48	9.73	39.77	77	60.00	-32.14	horizontal	Average
8 pk	2246.00	55.79	28.48	9.73	39.77	77	80.00	-25.77	horizontal	Peak



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Site : chamber
Condition: FCC 1 GHz - 5 GHz PK(A) 3m HORN781(2015.05.07) vertical
: RBW:1000.000kHz VBW:1000.000kHz SWT:Auto
Project :
Model : XRN-1610SN
Mode :
Memo :

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	TPos	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	deg	dBuV/m	dB		
1	1122.00	37.01	24.39	6.86	40.06	21	60.00	-31.80	vertical	Average
2 pk	1122.00	66.96	24.39	6.86	40.06	21	80.00	-21.85	vertical	Peak
3 pp	1620.00	44.88	26.37	8.31	39.82	55	60.00	-20.26	vertical	Average
4	1620.00	57.57	26.37	8.31	39.82	55	80.00	-27.57	vertical	Peak
5	2200.00	35.59	28.37	9.66	39.75	59	60.00	-26.13	vertical	Average
6	2200.00	53.15	28.37	9.66	39.75	59	80.00	-28.57	vertical	Peak

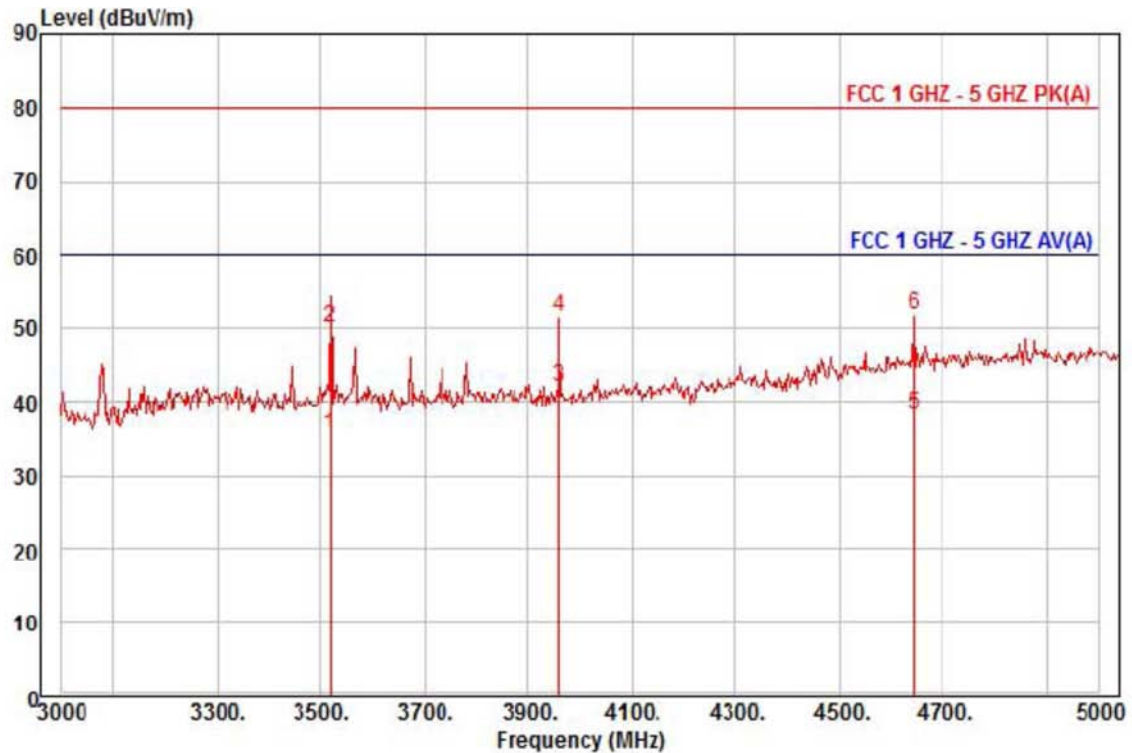
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Test report No.:
KES-E1-16T0275
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Site : chamber
Condition: FCC 1 GHZ - 5 GHZ PK(A) 3m HORN781(2015.05.07) horizontal
: RBW:1000.000kHz VBW:1000.000kHz SWT:Auto
Project :
Model : XRN-1610SN
Mode :
Memo :

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	TPos	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	deg	dBuV/m	dB		
1	3519.00	32.08	31.20	12.55	40.31	346	60.00	-24.48	horizontal	Average
2	3519.00	46.48	31.20	12.55	40.31	346	80.00	-30.08	horizontal	Peak
3 pp	3960.00	36.88	31.94	13.43	40.40	342	60.00	-18.15	horizontal	Average
4	3960.00	46.52	31.94	13.43	40.40	342	80.00	-28.51	horizontal	Peak
5	4644.00	28.22	35.69	14.69	40.41	15	60.00	-21.81	horizontal	Average
6 pk	4644.00	41.87	35.69	14.69	40.41	15	80.00	-28.16	horizontal	Peak

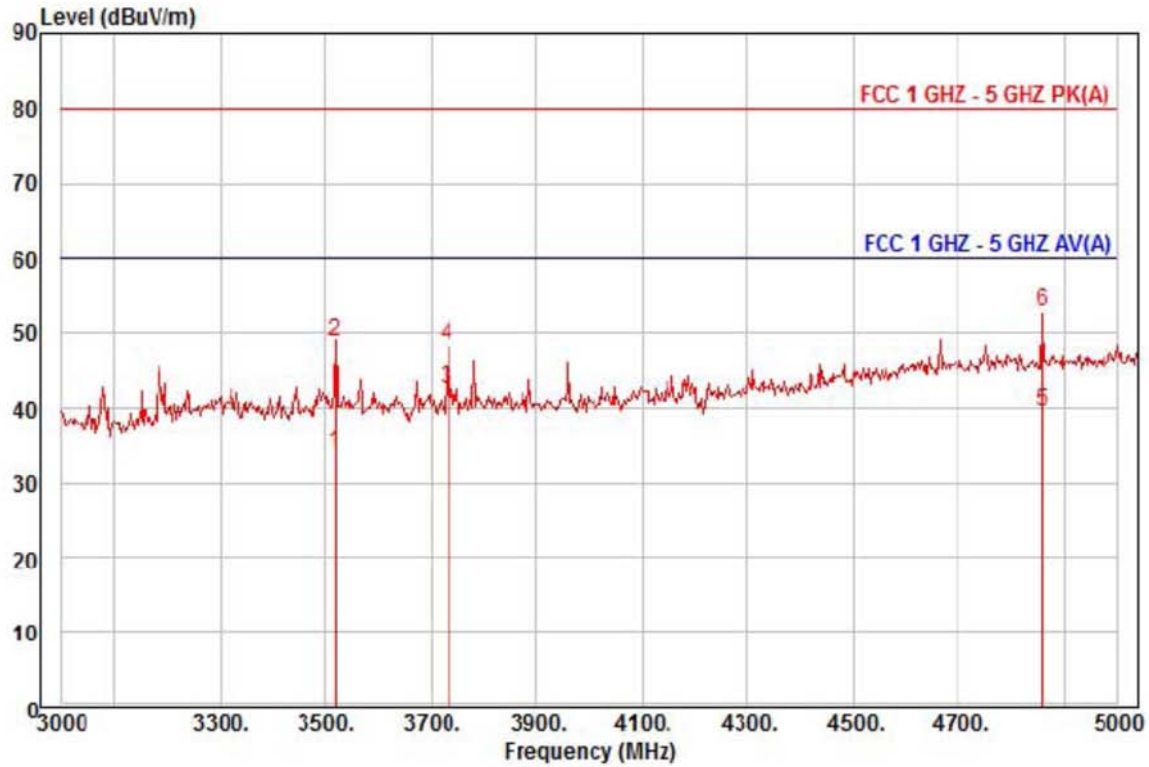
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Test report No.:
KES-E1-16T0275
Page (21) of (32)



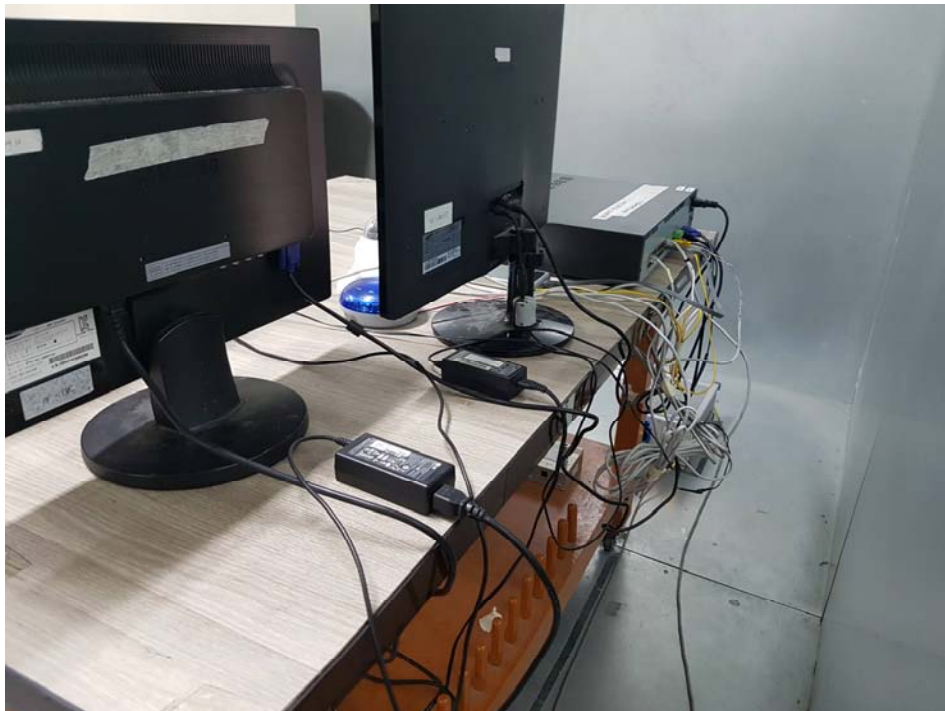
Site : chamber
Condition: FCC 1 GHZ - 5 GHZ PK(A) 3m HORN781(2015.05.07) vertical
: RBW:1000.000kHz VBW:1000.000kHz SWT:Auto
Project :
Model : XRN-1610SN
Mode :
Memo :

	Read	Ant	Cable	Preamp	TPos	Limit	Over		
Freq	Level	Factor	Loss	Factor		Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	deg	dBuV/m	dB		
1	3519.00	30.33	31.20	12.55	40.31	233	60.00	-26.23 vertical	Average
2	3519.00	45.32	31.20	12.55	40.31	233	80.00	-31.24 vertical	Peak
3 pp	3732.00	38.25	31.56	12.97	40.36	24	60.00	-17.58 vertical	Average
4	3732.00	44.09	31.56	12.97	40.36	24	80.00	-31.74 vertical	Peak
5	4860.00	27.82	36.92	15.08	40.41	151	60.00	-20.59 vertical	Average
6 pk	4860.00	41.07	36.92	15.08	40.41	151	80.00	-27.34 vertical	Peak

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Test Setup Photos and Configuration

Conducted Voltage Emissions



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Radiated Electric Field Emissions(Below 1 GHz)



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Radiated Electric Field Emissions(Above 1 GHz)



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EUT External Photographs

(Top)



(Bottom)



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EUT Internal Photographs

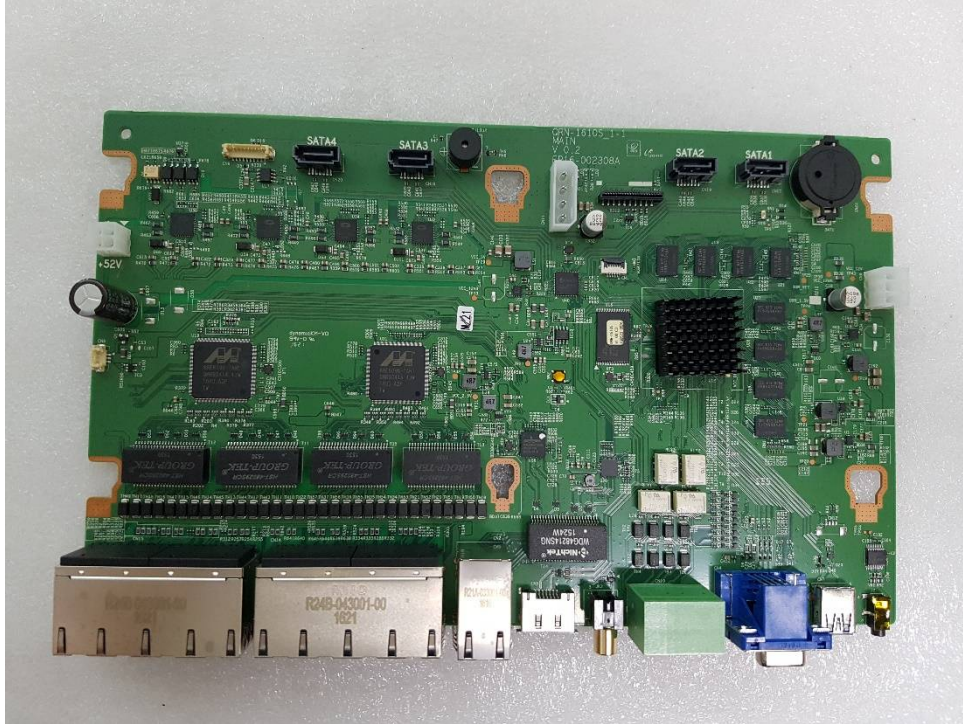
(Internal View)



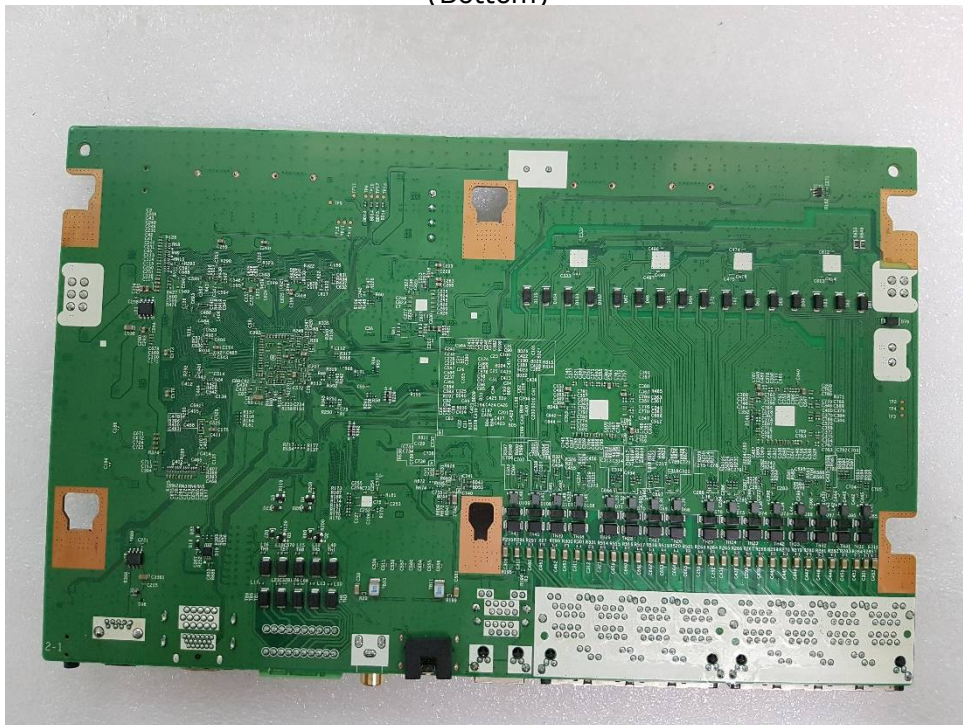
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Main Board EUT Internal View – Board 1

(Top)



(Bottom)



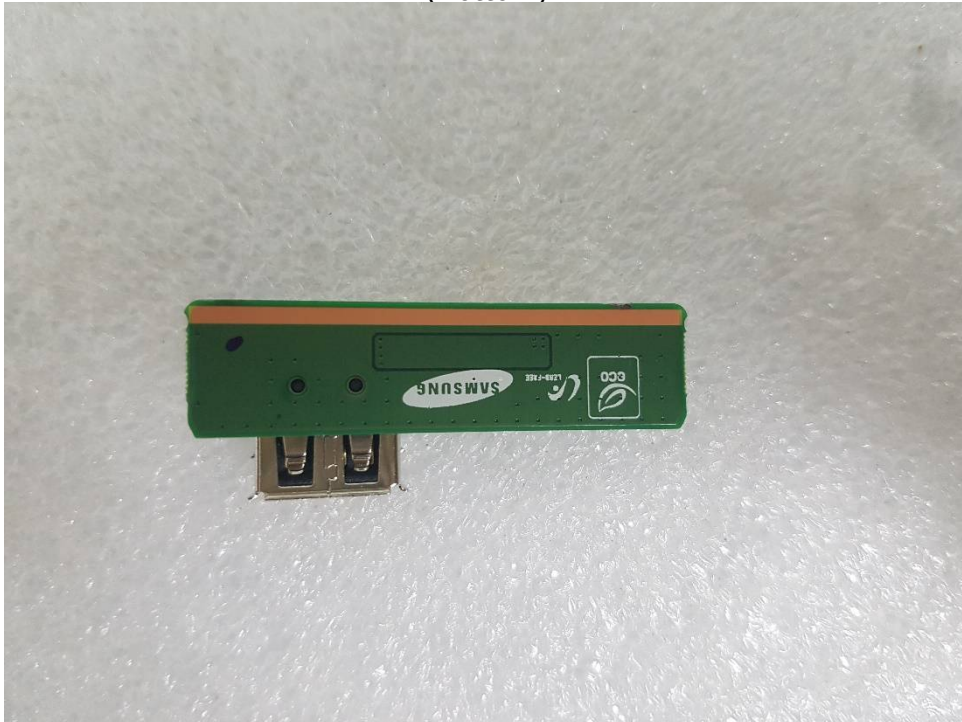
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Main Board EUT Internal View – Board 2

(Top)



(Bottom)



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Main Board EUT Internal View – Board 3

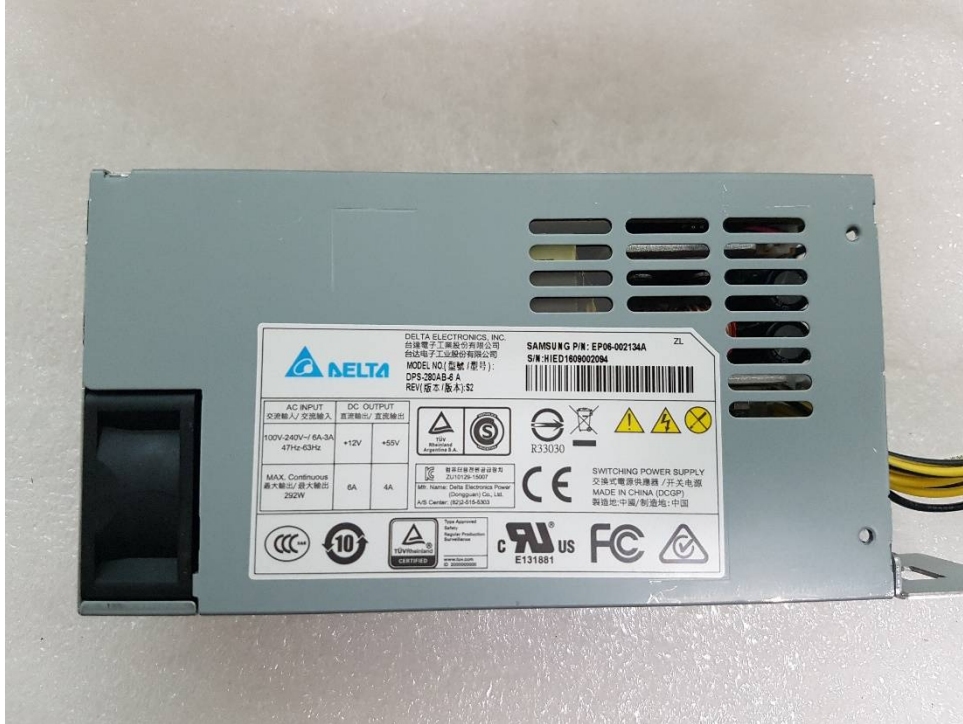
(Top)



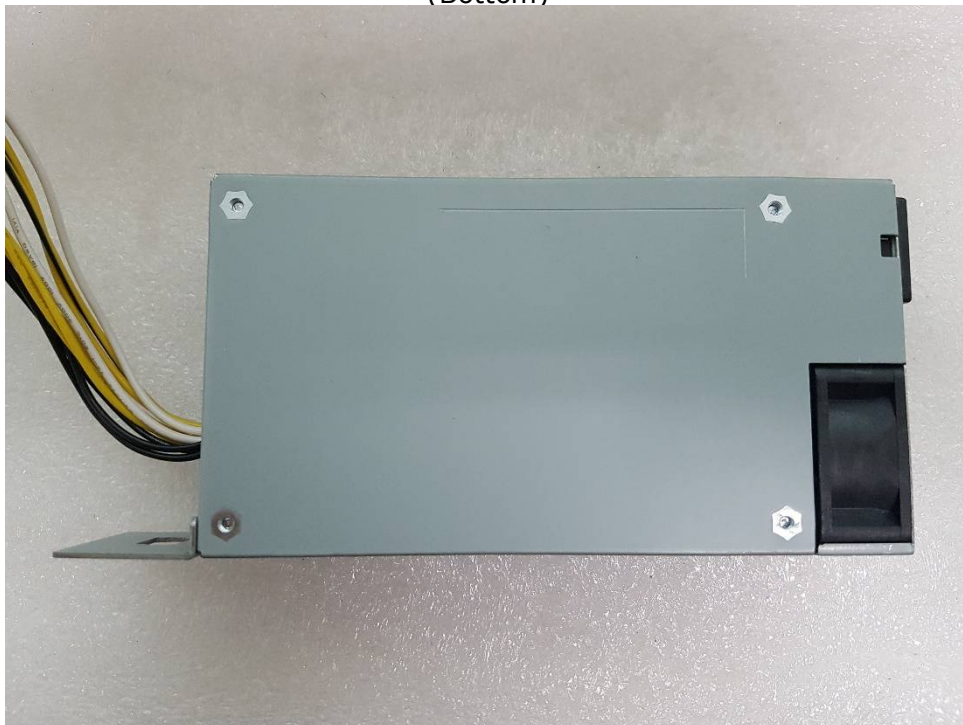
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Main Board EUT Internal View – Power

(Top)



(Bottom)



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Main Board EUT Internal View – HDD

(Top)

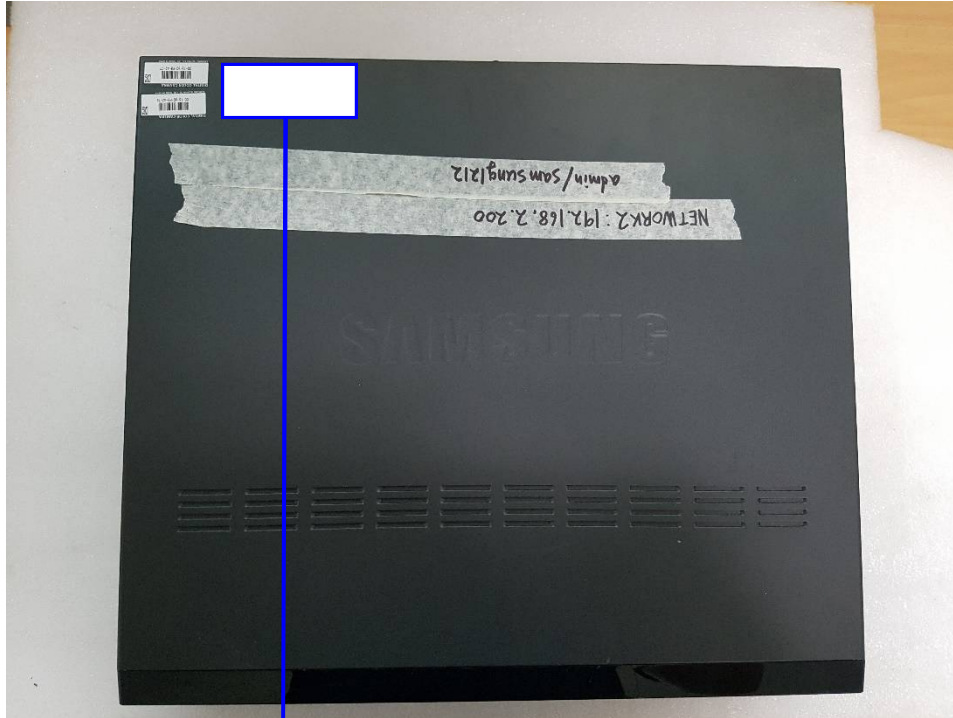


(Bottom)



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Label Photographs



[LABEL VIEW]

This Class A digital apparatus complies with Canadian ICES-003