

DECLARATION OF CONFORMITY

We; Samsung Techwin Co., Ltd.

DECLARE UNDER OUR SOLE RESPONSIBILITY THAT THE PRODUCT;

Report No: KES-E1-15T0049

**Type of
equipment:** NETWORK CAMERA

Model Name: SNO-L6013RP

Applicant: Samsung Techwin Co., Ltd.

Address: 84, Jeongdong-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, Korea

Manufacturer : TIANJIN SAMSUNG TECHWIN
OPTO-ELECTRONIC CO.,LTD
No.11 Weiliu Road. Micro-Electronic

Address: Industrial Park Jingang Road
Tianjin 300385, China

Test standards : AS/NZS CISPR22:2009+A1:2010

Classification: C-Tick

The above equipment was tested by EMC compliance Testing Laboratory for with the requirements of C-tick Rules and Regulations. The results of testing in this report apply to the product / system which was tested only.

Feb. 26. 2015
(Date of issue)

(Name and signature of authorized person)



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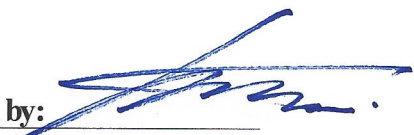
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AS/NZS EMI Test Report

Test Report No. : KES-E1-15T0049
Date of Issue : 02. 26. 2015
Description of Product : NETWORK CAMERA
Model No. : SNO-L6013RP
Variant Model : -
Applicant : Samsung Techwin Co., Ltd.
Address : 84, Jeongdong-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, Korea
Manufacturer : TIANJIN SAMSUNG TECHWIN OPTO-ELECTRONIC CO.,LTD
Address : No.11 Weiliu Road, Micro-Electronic Industrial Park Jingang Road Tianjin 300385, China
Applicable Regulation : AS/NZS CISPR22:2009 + A1:2010

Date of Receipt : 02. 05.2015
Test Date : 02. 10. 2015 - 02. 12. 2015

Tested by: 
Dae Hyun, Kim
Test Engineer

Reviewed by: 
Dong Hun, Jang
Technical Manager

Testing Laboratories for Safety and RF Compliance
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Revision history

Revision	Date of issue	Test report No.	Description
-	02. 26. 2015	KES-E1-15T0049	Initial

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1. General Information

1.1 Introduction

The EMI Test Report for CE Declaration of Conformity is prepared on behalf of named applicant in accordance with the EMC Directive(2004/108/EC) of the European Economic Community. The test results reported in this document relate only to the item that was tested.

All radiated emission, conducted emission measurements required by the EMC Directive were performed manually at KES Co., Ltd. (here in after called KES), 473-29, Gayeo-ro, Yeosu-si, Gyeonggi-do, Korea

The radiated emission measurements performed on 10 meter, Open Area Test Site, test range maintained by KES. Complete ANSI63.4;2009 description and site attenuation measurement data records are maintained at the test facility and have been placed on file with the Federal Communications Commission.

The KES EMC test facilities in and Yeosu-si are designated testing laboratory according to ISO/IEC 17025 by Radio Research Agency(RRA), Korea Communication Commission.



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1.2 Product Description for Equipment Under Test (EUT)

Samsung Techwin Co., Ltd., NETWORK CAMERA, Model No: SND-L6013RP or the "E.U.T". as referred to in this report is base model.

Main Specifications of EUT are:

Imaging Device	1/2.9" 2.19M CMOS
Total Pixels	2,000(H) x 1,121(V)
Effective Pixels	1,984(H) x 1,105(V)
Scanning System	Progressive
Min. Illumination	Color: 0.3Lux(1/30sec, F1.8, 50IRE), 0.005Lux(2sec, 50IRE) Color: 0.1Lux(1/30sec, F1.8, 30IRE) B/W : 0 Lux (IR LED on)
Focal Length (Zoom Ratio)	3.6mm
Max. Aperture Ratio	F1.8
Angular Field of View	H: 86.5°, V: 47.8°, D: 101.2° (±5%)
Min. Object Distance	0.5m
Lens Type	Fixed
Mount Type	Board type
IR Viewable Length	15m
Camera Title	Off / On (Displayed up to 15 characters)
Day & Night	True Day & Night
Backlight Compensation	Off / BLC
Contrast Enhancement	SSDR(SamsungSuperDynamicRange) (Off / On)
Digital Noise Reduction	SSNR(Off / On)
Motion Detection	Off / On (4ea rectangler zones)
Privacy Masking	Off / On (6ea rectangler zones)
Gain Control	Off / Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
LDC(Lens distortion control)	On/Off (5 levels with Min/Max)
Electronic Shutter Speed	Minimum / Maximum / Anti flicker
Flip / Mirror	Flip / Mirror / Hallway view
Intelligent Video Analytics	Motion Detection with metadata, Tampering
Alarm Triggers	Motiondetection, Tampering Detection, SD card error
Alarm Events	FileuploadviaFTPandE-Mail LocalstoragerecordingatEvent NotificationviaE-Mail

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Ethernet	RJ-45 (10/100BASE-T)
Video Compression Format	H.264, MJPEG
Resolution	1920x1080 / 1280x960 / 1280x720 / 1024x768 / 800x600 / 720x576 / 640x480 / 320x240
Max. Framerate	H.264:Max30fpsatallresolutions MJPEG:Max1fpsat1920x1080/1280x1024/1280x720/1024x768,Max.15fpsatotherresolution
Video Quality Adjustment	H.264:TargetBitrateLevelControl MJPEG:QualityLevelControl
Bitrate control method	H.264:CBRorVBR MJPEG:VBR
Streaming Capability	Multiple Streaming(Up to 3 Profiles)
Audio I/O	Line-in
Audio Compression Format	G.711u-law/G.726Selectable G.726(ADPCM)8KHz,G.7118KHz G.726:16Kbps,24Kbps,32Kbps,40Kbps
Audio Communication	Uni-directional
IP	IPv4, IPv6
Protocol	TCP/IP,UDP/IP,RTP(UDP),RTP(TCP),RTCP,RTSP,NTP,HTTP,HTTPS,SSL,DHCP,PPPoE,FTP,SMTP,ICMP,IGMP,SNMPv1/v2c/v3(MIB-2),ARP,DNS,DDNS,QoS,PIM-SM,UPnP,Bonjour
Security	HTTPS(SSL>LoginAuthentication DigestLoginAuthentication IPAddressFiltering UseraccessLog 802.1XAuthentication
Streaming Method	Unicast / Multicast
Max. User Access	6 users at Unicast Mode
Edge storage	MicroSD/SDHCMax32G,NAS (Motionimagesrecorded in theSDmemorycardcanbedownloaded) (ManualrecordingatLocalPC)
Application Programming Interface	ONVIFProfileS,G SUNAPI(HTTPAPI)
Webpage Language	English,French,German,Spanish,Italian,Chinese,Korean, Russian,Japanese,Swedish,Denish,Portuguese,Turkish,Polish,Czech,Rumanian,Serbian,Dutch,Croatia,Hungary,Greek,Finnish,Norwegian
Web Viewer	SupportedOS:WindowsXP/VISTA/7/8/8.1,MACOSX10.7~10.10 SupportedBrowser:MicrosoftInternetExplorer(Ver.8~11),MozillaFirefox(Ver.9~35), Google Chrome (Ver. 15~40), Apple Safari (Ver. 8.0.2(Mac OS X 10.10), 8.0.2(Mac OS X 10.9), 6.0.2 (Mac OS X 10.8, 10.7 only), 5.1.7) * Mac OS X only
Central Management Software	SmartViewer
Operating Temperature / Humidity	-30° C ~ +55° C / Less than 90% RH
Storage Temperature / Humidity	-30° C~+60° C(-22° F~+140° F)/ Less than 90% RH
Ingress Protection	IP66
Input Voltage / Current	PoE
Power Consumption	Max. 7.0W
Color / Material	Dark gray / Plastic
Dimension (WxHxD)	Φ58.6mm x 86mm(선철드 제외)
Weight	300g

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1.3 Equipment Under Test

Description	Model Number	Serial Number	Manufacturer	Remarks
NETWORK CAMERA	SNO-L6013RP	-	TIANJIN SAMSUNG TECHWIN OPTO-ELECTRONIC CO., LTD	E.U.T

1.4 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
NOTEBOOK	LG15N54	410NZET022292	LG Electronics Inc.	-
Adapter	ADP-90WH B	84ZW19F1557	DELTA ELECTRONICS(JIANGSU) LTD.	-
PoE Adapter	PD3001GC/AC	RD9356082016964200	Powe Dsine	-
Mike	CMK-303	-	CAMAC	-

1.5 External I/O Cabling

Description	Length (m)	Port / From	Port/To	Remarks
NETWORK CAMERA	3.0	PoE / NETWORK CAMERA	PoE / PoE Adapter	Unshielded
PoE Adapter	2.5	RJ-45 / PoE Adapter	RJ-45 / NOTEBOOK	Unshielded
NETWORK CAMERA	1.6	2.5 mm / NETWORK CAMERA	2.5 mm / Mike	Unshielded

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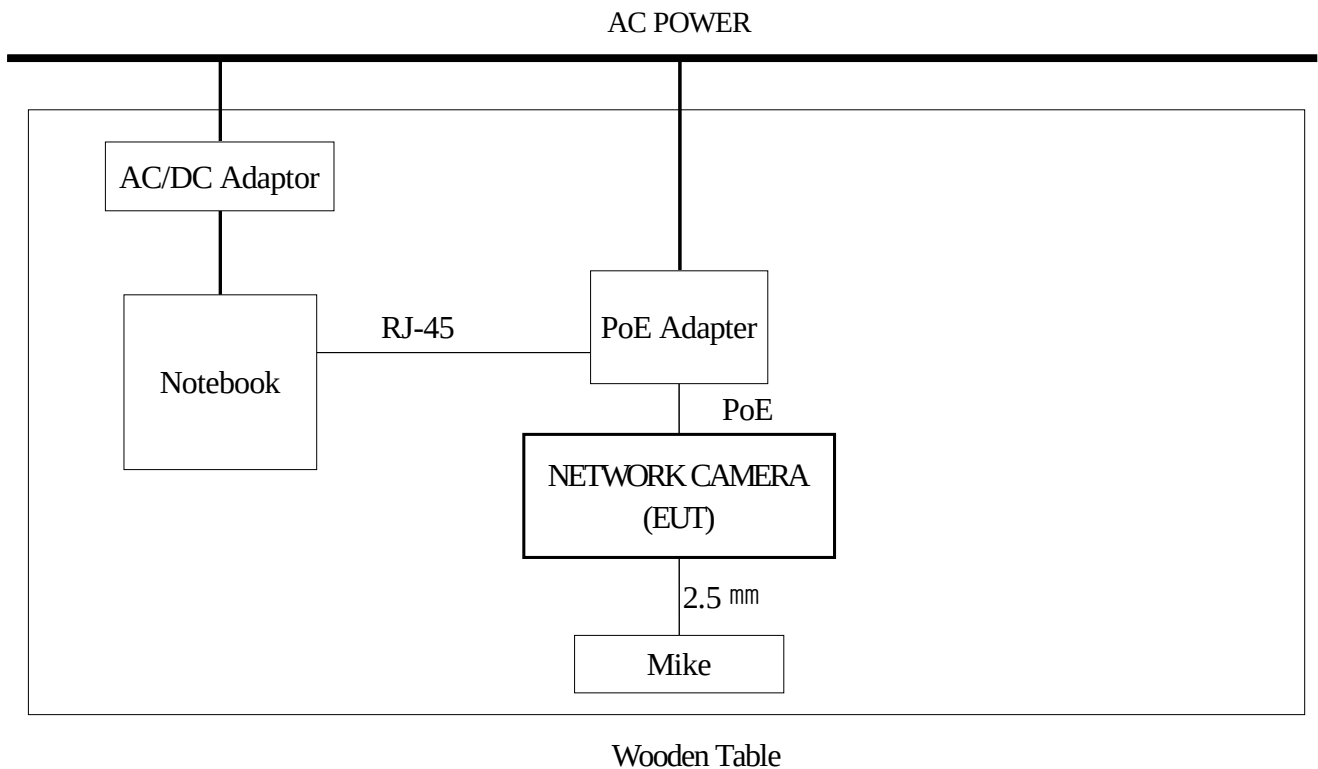
1.6 Special Accessories

As shown in section 1.8, all interface cables used for compliance testing are shielded as normally supplied or by use respective component manufacturers.

1.7 EUT Modifications

No modifications were made to the EUT in order to achieve and maintain compliance to the standards described in this report.

1.8 Configuration of Test System



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1.9 Operating condition

- Ping test
- web view monitoring

Test standards and results

Specifications	Description	Test Point	Remark
CISPR22, Class A	Conducted Emission	AC Input Port	N/A(1)
CISPR22, Class A	Radiated Emission	Enclosure	C

Note : C=Complies N/C=Not Complies N/T=Not Tested N/A=Not Applicable

Note (1) : This device is operate by POE power. Test is not applicable.

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2. Test Performed

2.1 Conducted Emission Measurements

2.1.1 Test Description

The power line conducted emission measurements were performed in a shielded enclosure. The EUT was placed on a wooden table, 80 centimeters height above the floor. Power was fed to the EUT through a 50 ohm/ 50 micro henry Line Impedance Stabilization Network (LISN). The ground plane that was electrically bonded to the shield room ground system and all power lines entering the shield room were filtered.

2.1.2 Test Equipments

Description	Manufacturer	Model Number	Serial Number	Cal. Due
EMI Receiver/Signal Analyzer	Narda S.T.S / PMM	PMM 9010F	020WW31006	04. 04. 2015
LISN	R&S	ENV216	101137	02. 10. 2016
LISN	EMCO	3810/2	2228	-
8-Wire ISN CAT3	Schwarzbeck Mess	CAT3 8158	8158-0019	04.08.2015
8-Wire ISN CAT5	Schwarzbeck Mess	NTFM 8158	8158-0030	05.21.2015
8-Wire ISN CAT6	Schwarzbeck Mess	NTFM 8158	8158-0029	08.15.2015
Electro wave Shieldroom	SEMITEC	-	-	-

2.1.3 Test Environments

Ambient Temperatures : see the data
Relative Humidity : see the data

2.1.4 Test Limits

Frequency (MHz)	CISPR Publication 22			
	Class B		Class A	
	QP	AV	QP	AV
0.15 to 0.50	66 to 56	56 to 46	79	66
0.50 to 5.00	56	46	73	60
5.00 to 30.00	60	50	73	60

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- Telecommunication

Frequency (MHz)	CISPR 22(Voltage)			
	Class B (dB μ V)		Class A (dB μ V)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 to 0.50	84.0 to 74.0	74.0 to 64.0	97.0 to 87.0	84.0 to 74.0
0.50 to 30.00	74.0	64.0	87.0	74.0

Frequency (MHz)	CISPR 22(Current)			
	Class B (dB μ A)		Class A (dB μ A)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 to 0.50	40.0 to 30.0	30.0 to 20.0	53.0 to 43.0	40.0 to 30.0
0.50 to 30.00	30.0	20.0	43.0	30.0

2.1.5 Test Procedure

The conducted emission levels were measured on each current-carrying line with the spectrum analyzer operating in the CISPR quasi-peak mode (or peak mode if applicable). The analyzer's 6 dB bandwidth was set to 9 kHz. The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. If the conducted emission exceed the average limit with the instrument set to the quasi-peak mode, the measurements are made in the average mode. The emission spectrum was scanned from 150 kHz to 30 MHz. The highest emission amplitudes relative to the appropriate limits were measured and have been recorded. Quasi-peak readings are distinguished with a "QP".

The conducted emission test was performed with the EUT exercise program loaded, and the emissions were scanned between 150 kHz to 30 MHz on the HOT side and NEUTRAL side, herein referred to as H and N, respectively.

2.1.6 Test Results

According to the data in section 2.1.7, the EUT complied with the CISPR22 standards.



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2.1.7 Test Data

Temperature: °C Humidity: R.H. Test Date: Tested by:
Polarization: HOT

N/A

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Polarization: NEUTRAL

N/A



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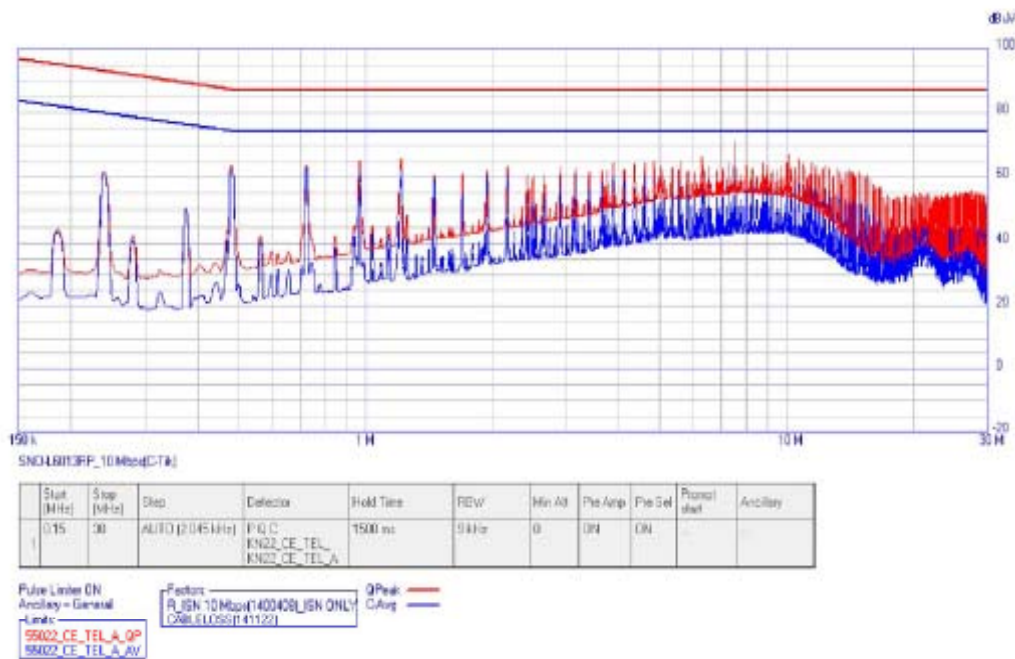
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- Telecommunication

Temperature: 20.2 °C Humidity: 36.1 % R.H. Test Date: 02. 10. 2015 Tested by: Dae Hyun, Kim

[10 Mbps]



Frequency [MHz]	Q-Peak [dBμV]	Limit [dBμV]	Margin [dB]	C-Avg [dBμV]	Limit [dBμV]	Margin [dB]	Factor (ISN) [dB]	Factor (Cable Loss) [dB]
0.240	61.490	93.100	-31.610	60.830	80.100	-19.270	10.170	0.030
0.373	50.180	89.440	-39.260	49.940	76.440	-26.500	10.060	0.030
0.469	43.650	87.530	-43.880	40.570	74.530	-33.960	10.050	0.030
0.481	63.600	87.320	-23.720	62.400	74.320	-11.920	10.050	0.030
1.207	65.540	87.000	-21.460	63.350	74.000	-10.650	9.910	0.050
6.269	66.440	87.000	-20.560	56.910	74.000	-17.090	9.830	0.210
7.508	71.080	87.000	-15.920	63.450	74.000	-10.550	9.820	0.250
10.046	66.540	87.000	-20.460	49.000	74.000	-25.000	9.810	0.280
10.649	65.300	87.000	-21.700	56.910	74.000	-17.090	9.810	0.310

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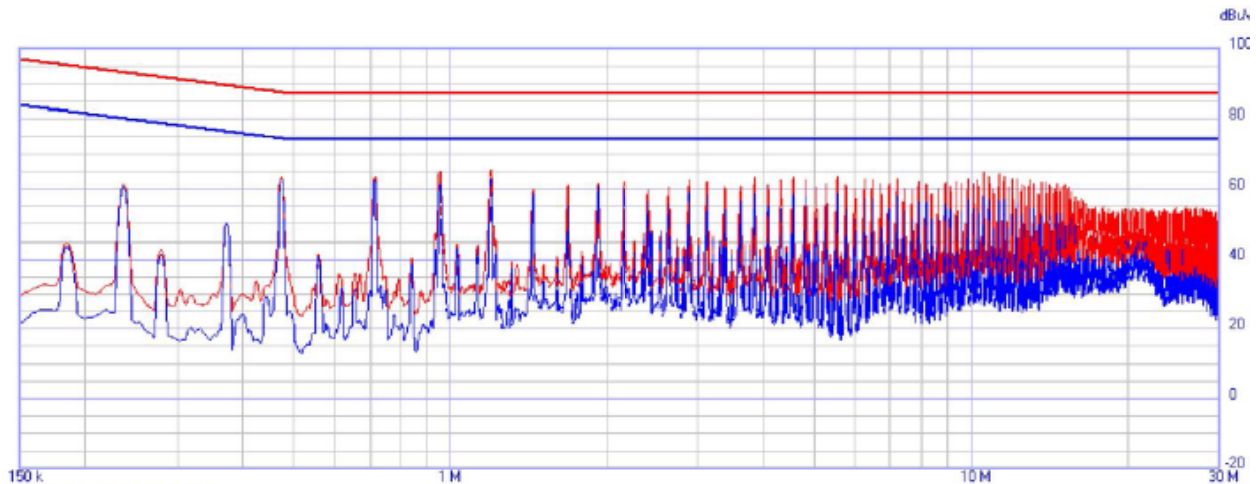


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[100 Mbps]



	Start [MHz]	Stop [MHz]	Step	Detector	Hold Time	RBW	Min Att	Pre Amp	Pre Sel	Prompt start	Ancillary
1	0.15	30	AUTO (2.045 kHz)	P/Q C KN22_CE_TEL_... KN22_CE_TEL_A	1500 ms	9 kHz	0	ON	ON	...	...

Pulse Limiter ON
Ancillary = General

Limits:

95022_CE_TEL_A_QP
95022_CE_TEL_A_AV

Factors:
R_ISN 100 Mbps(1400521)_ISN ONLY
CABLELOSS(141122)

QPeak
C-Avg

Frequency [MHz]	Q-Peak [dBμV]	Limit [dBμV]	Margin [dB]	C-Avg [dBμV]	Limit [dBμV]	Margin [dB]	Factor (ISN) [dB]	Factor (Cable Loss) [dB]
0.238	61.150	93.170	-32.020	60.500	80.170	-19.670	9.700	0.030
0.279	42.660	91.850	-49.190	41.180	78.850	-37.670	9.670	0.030
0.373	50.160	89.440	-39.280	50.150	76.440	-26.290	9.620	0.030
0.475	63.240	87.420	-24.180	62.100	74.420	-12.320	9.590	0.030
0.954	64.880	87.000	-22.120	61.010	74.000	-12.990	9.480	0.040
0.956	64.880	87.000	-22.120	61.010	74.000	-12.990	9.480	0.040
1.195	65.330	87.000	-21.670	62.170	74.000	-11.830	9.460	0.050
10.537	64.550	87.000	-22.450	56.260	74.000	-17.740	9.260	0.300
10.762	63.690	87.000	-23.310	56.310	74.000	-17.690	9.260	0.310
11.289	64.210	87.000	-22.790	52.640	74.000	-21.360	9.260	0.320

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[1 000 Mbps]

N/A

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2.2 Radiated Emission Measurements

2.2.1 Test Description

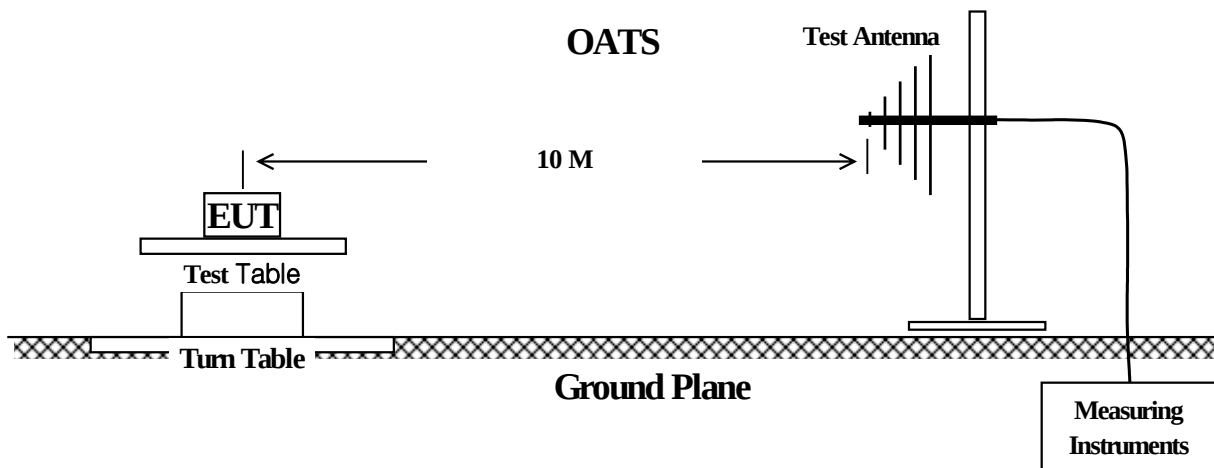
The radiated emissions measurements were performed on the ten-meter, open-field test site. The EUT was placed on a nonconductive turntable approximately 0.8 meters above the ground plane.

The frequency spectrum from 30 MHz to 1 000 MHz and 1 000 MHz to 6 000 MHz was scanned and maximum emission levels at each frequency recorded.

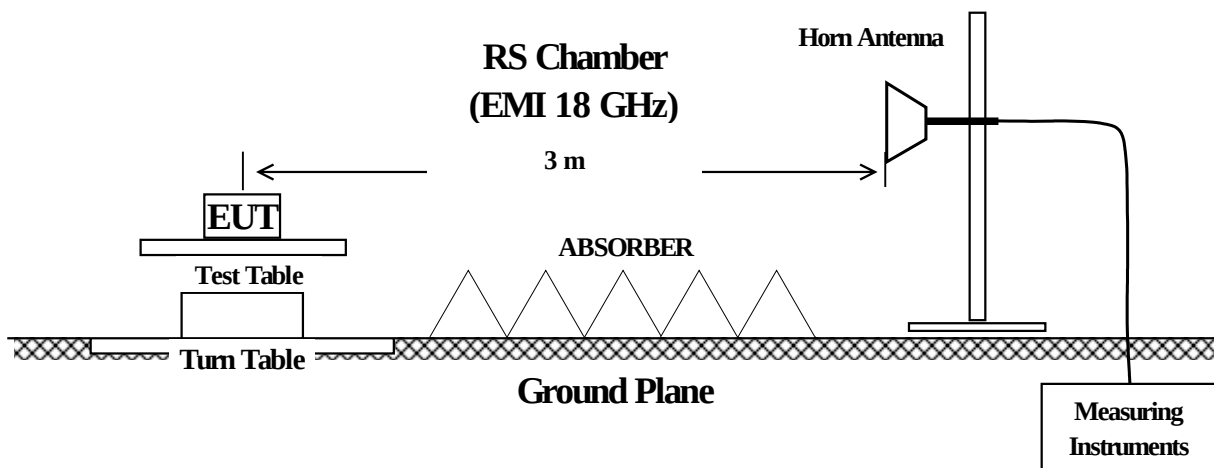
The system was rotated 360°, and the antenna was varied in the height between 1.0 and 4.0 meters in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

- above 1 GHz : Antenna height is fixed to 1.0 m

* Below 1 GHz



* Above 1 GHz



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2.2.2 Test Equipments

Description	Manufacturer	Model Number	Serial Number	Cal. Due
EMI TEST Receiver	R & S	ESVS10	826008/014	04.09.2014
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-385	05.09.2015
EMC Analyzer	Agilent	E7405A	US41160306	08.16.2014
PREAMPLIFIER	8449B	H.P	3008A00538	07.23.2015
DOUBLE RIDGED HORN ANTENNA	A.H. SYSTEMS, INC	SAS-571	781	05.13.2015
RS Chamber (EMI 18GHz)	SEMITEC	-	-	-

2.2.3 Test Environments

Temperatures : see the data
Humidity : see the data

2.2.4 Test Limits*** Below 1 GHz**

Frequency (MHz)	CISPR Publication 22	
	Class B	Class A
	Quasi-peak dB(uV/m)	Quasi-peak dB(uV/m)
0,15 to 30	Under consideration	Under consideration
30 to 230	30	40
230 to 1 000	37	47

*** Above 1 GHz**

Frequency (MHz)	CISPR Publication 22			
	Class B @ 3 m (dB μ V/m)		Class A @ 3 m (dB μ V/m)	
	PK	AV	PK	AV
1 000 to 3 000	70	50	76	56
3 000 to 6000	74	54	80	60

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2.2.5 Test Procedure

Before final measurements of radiated emission were made on the OATS, the EUT was scanned in semi-anechoic chamber in order to determine its emission spectrum signature. The physical arrangement of the test system and associated cabling was varied in order to determine the effect on the EUT's emission in amplitude, direction and frequency. This process was repeated during final radiated emission measurements on the OATS range, at each frequency, in order to ensure that maximum emissions amplitudes were attained.

The radiated emission test was performed with EUT exercise program loaded, and the emissions were scanned between 30 MHz to 1 000 MHz and 1 000 MHz to 6 000 MHz using the spectrum analyzer. The spectrum analyzer's 6 dB bandwidth was set to 120 kHz(1 MHz), and the analyzer was operated in the CISPR quasi-peak (Peak) detection mode.

Measurements were taken using both HORIZONTAL and VERTICAL antenna polarization, herein referred to as H and V, respectively.

3.1.1 Field Strength Calculation

The Field Strength (FS) is calculated by adding the Antenna Factor (AF) and Cable Factor (CF) and Amplifier Gain(AG) from the Measured Reading (MR). The basic equation with a sample calculation is as follows:

$$* \text{ Below 1 GHz : FS(dB}\mu\text{V/m)} = \text{MR(dB}\mu\text{V)} + [\text{AF(dB/m)} + \text{CF(dB)}]$$

$$* \text{ Above 1 GHz : FS(dB}\mu\text{V/m)} = \text{MR(dB}\mu\text{V)} + [\text{AF(dB/m)} + \text{CF(dB)}] - \text{AG}$$

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2.2.6 Test Results

According to the data in section 3.2.7, the EUT complied with the CISPR22 standards.

2.2.7 Test Data*** Below 1 GHz**

Temperature: 2.0 °C Humidity: 35.0 % R.H. Test Date: 02. 12. 2015 Tested by: Dae Hyun, Kim

Frequency (MHz)	Amplitude (dB μ V/m)	Antenna		Correction Factor		Corrected Amplitude (dB μ V/m)	Applicable Limit (dB μ V/m)	Margin (dB)
		Polar. (H/V)	Height (m)	Ant. (dB)	Cable (dB)			
111.327	13.900	V	1.000	10.250	2.480	26.630	40.000	13.370
186.205	19.700	H	3.840	11.140	3.290	34.130	40.000	5.870
186.205	17.300	V	1.270	11.140	3.290	31.730	40.000	8.270
223.121	15.300	H	4.000	10.740	3.640	29.680	40.000	10.320
297.337	18.100	H	3.270	13.310	4.350	35.760	47.000	11.240
334.874	19.100	H	3.900	14.160	4.650	37.910	47.000	9.090

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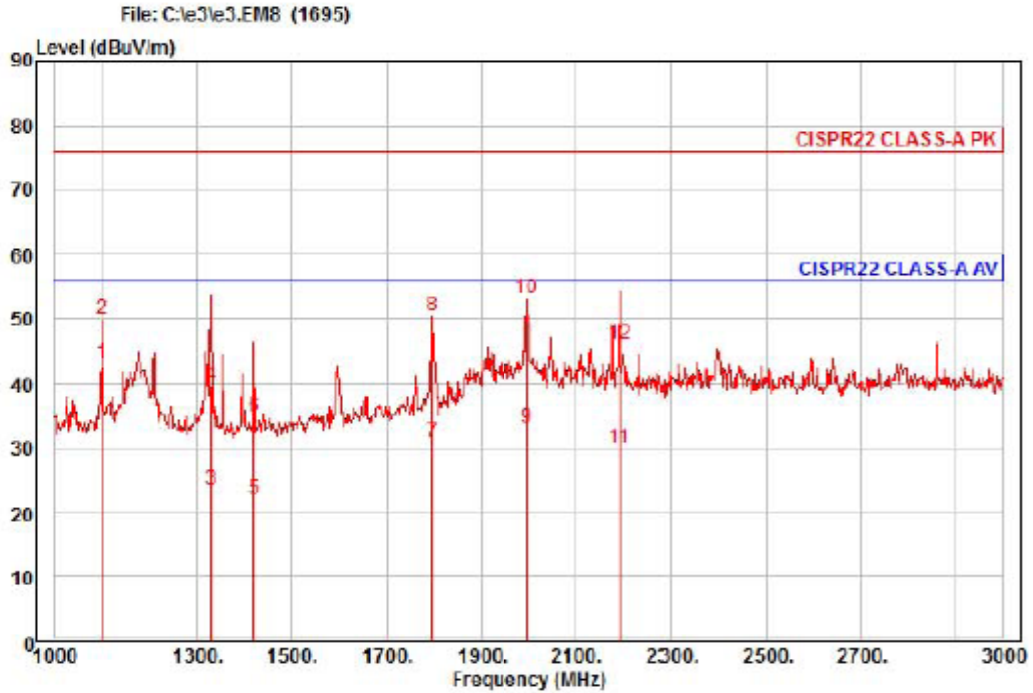
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* Above 1 GHz

Temperature: 24.5 °C Humidity: 35.1 % R.H. Test Date: 02. 12. 2015 Tested by: Dae Hyun, Kim



Site : chamber
Condition: CISPR22 CLASS-A PK 3m HORN ANT (2014.03.10) horizontal
: RBW:1000.000kHz VBW:1000.000kHz SWT:Auto
Project : NETWORK CAMERA
EUT : SNO-L6013RP
Mode :
Memo : 1 ~ 3 GHz

		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 pp	1100.00	50.12	23.40	5.68	36.03	91	56.00	-12.83	horizontal	Average
2	1100.00	57.05	23.40	5.68	36.03	91	76.00	-25.90	horizontal	Peak
3	1330.00	28.66	24.33	6.24	35.65	115	56.00	-32.42	horizontal	Average
4	1330.00	44.71	24.33	6.24	35.65	115	76.00	-36.37	horizontal	Peak
5	1420.00	26.42	24.70	6.46	35.50	115	56.00	-33.92	horizontal	Average
6	1420.00	39.09	24.70	6.46	35.50	115	76.00	-41.25	horizontal	Peak
7	1796.00	31.41	26.90	7.37	34.87	129	56.00	-25.19	horizontal	Average
8	1796.00	51.12	26.90	7.37	34.87	129	76.00	-25.48	horizontal	Peak
9	1998.00	31.54	28.18	7.86	34.53	156	56.00	-22.95	horizontal	Average
10 pk	1998.00	51.61	28.18	7.86	34.53	156	76.00	-22.88	horizontal	Peak
11	2194.00	27.35	28.61	8.27	34.40	119	56.00	-26.17	horizontal	Average
12	2194.00	43.60	28.61	8.27	34.40	119	76.00	-29.92	horizontal	Peak

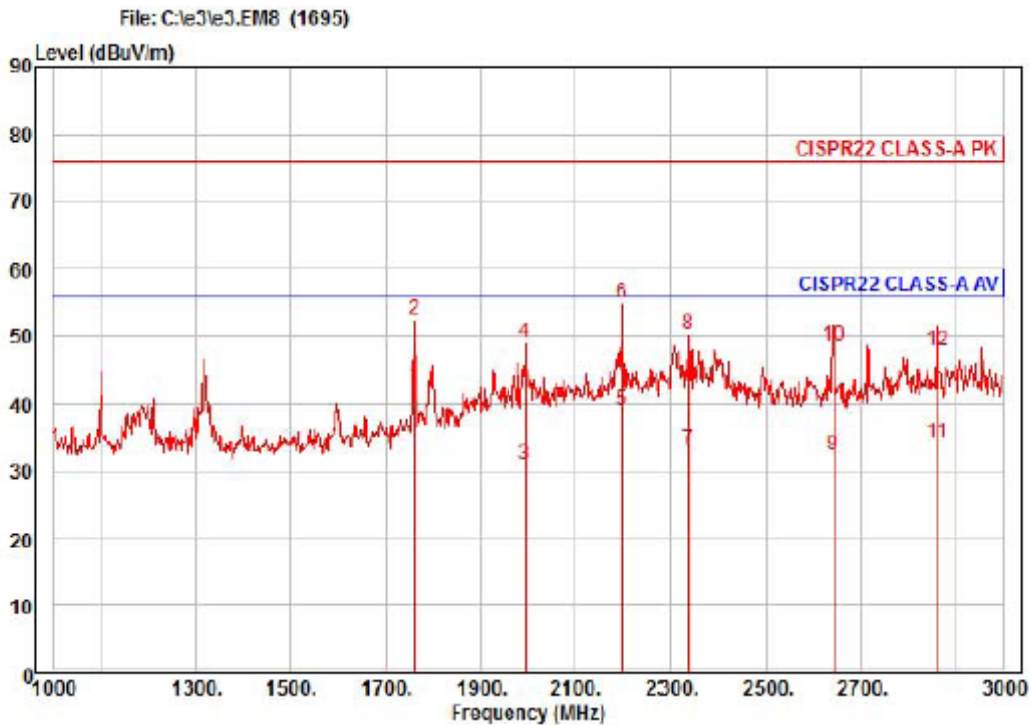
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Site : chamber
Condition: CISPR22 CLASS-A PK 3m HORN ANT (2014.03.10) vertical
: RBW:1000.000kHz VBW:1000.000kHz SWT:Auto
Project : NETWORK CAMERA
EUT : SNO-L6013RP
Mode :
Memo : 1 ~ 3 GHz

		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 pp	1760.00	43.75	26.67	7.28	34.93	27	56.00	-13.23	vertical	Average
2	1760.00	53.48	26.67	7.28	34.93	27	76.00	-23.50	vertical	Peak
3	1996.00	29.46	28.16	7.85	34.54	205	56.00	-25.07	vertical	Average
4	1996.00	47.68	28.16	7.85	34.54	205	76.00	-26.85	vertical	Peak
5	2200.00	36.39	28.62	8.28	34.39	251	56.00	-17.10	vertical	Average
6 pk	2200.00	52.43	28.62	8.28	34.39	251	76.00	-21.06	vertical	Peak
7	2336.00	29.90	28.91	8.57	34.30	123	56.00	-22.92	vertical	Average
8	2336.00	47.16	28.91	8.57	34.30	123	76.00	-25.66	vertical	Peak
9	2642.00	27.66	29.54	9.21	34.09	19	56.00	-23.68	vertical	Average
10	2642.00	43.93	29.54	9.21	34.09	19	76.00	-27.41	vertical	Peak
11	2862.00	28.31	29.98	9.67	33.94	0	56.00	-21.98	vertical	Average
12	2862.00	42.10	29.98	9.67	33.94	0	76.00	-28.19	vertical	Peak

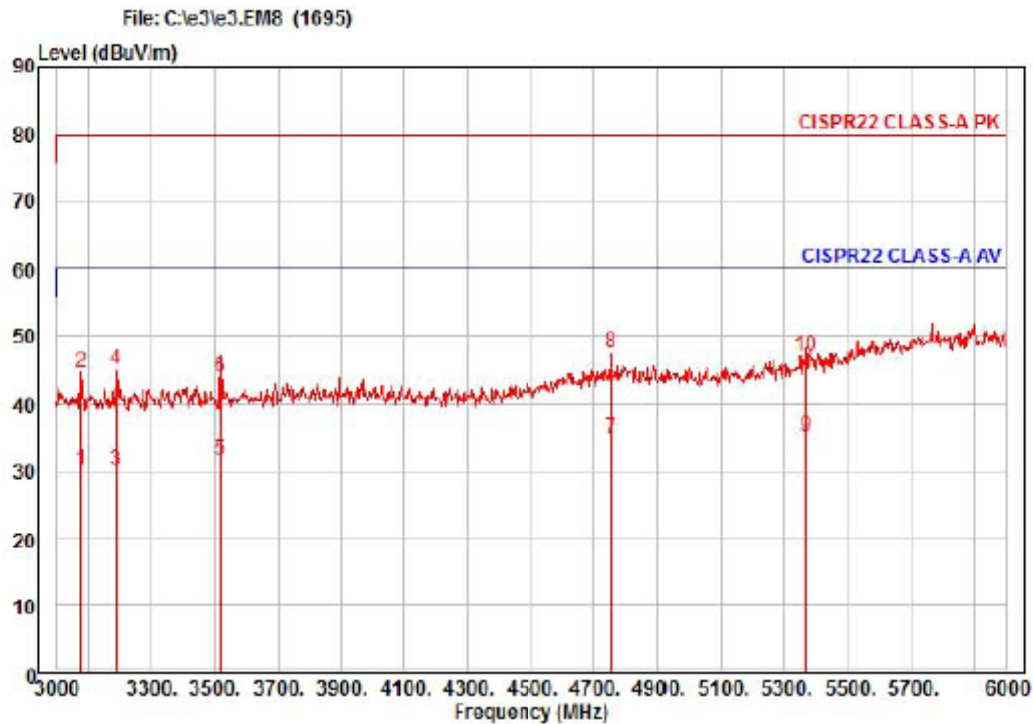
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Site : chamber
Condition: CISPR22 CLASS-A PK 3m HORN ANT (2014.03.10) horizontal
: RBW:1000.000kHz VBW:1000.000kHz SWT:Auto
Project : NETWORK CAMERA
EUT : SNO-L6013RP
Mode :
Memo : 3 ~ 6 GHz

	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	3078.00	23.77	30.28	10.08	33.93	345	60.00	-29.80	horizontal	Average
2	3078.00	38.30	30.28	10.08	33.93	345	80.00	-35.27	horizontal	Peak
3	3189.00	23.67	30.32	10.25	34.05	124	60.00	-29.81	horizontal	Average
4	3189.00	38.56	30.32	10.25	34.05	124	80.00	-34.92	horizontal	Peak
5	3519.00	24.80	30.49	10.77	34.43	151	60.00	-28.37	horizontal	Average
6	3519.00	37.16	30.49	10.77	34.43	151	80.00	-36.01	horizontal	Peak
7	4758.00	22.85	32.91	12.77	33.64	143	60.00	-25.11	horizontal	Average
8 pk	4758.00	35.64	32.91	12.77	33.64	143	80.00	-32.32	horizontal	Peak
9 pp	5367.00	19.76	33.71	14.81	33.26	287	60.00	-24.98	horizontal	Average
10	5367.00	31.80	33.71	14.81	33.26	287	80.00	-32.94	horizontal	Peak

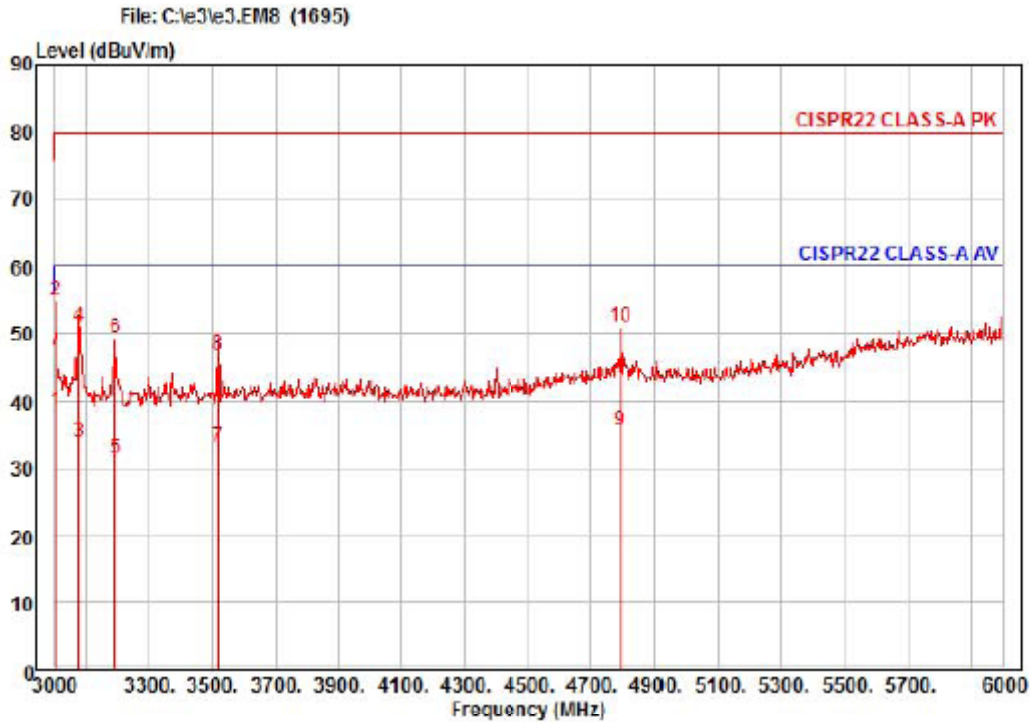
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Site : chamber
Condition: CISPR22 CLASS-A PK 3m HORN ANT (2014.03.10) vertical
: RBW:1000.000kHz VBW:1000.000kHz SWT:Auto
Project : NETWORK CAMERA
EUT : SNO-L6013RP
Mode :
Memo : 3 ~ 6 GHz

		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	pp	3006.00	32.24	30.25	9.97	33.85	0	60.00	-21.39	vertical Average
2	pk	3006.00	48.68	30.25	9.97	33.85	0	80.00	-24.95	vertical Peak
3		3078.00	27.41	30.28	10.08	33.93	359	60.00	-26.16	vertical Average
4		3078.00	44.46	30.28	10.08	33.93	359	80.00	-29.11	vertical Peak
5		3192.00	24.92	30.32	10.26	34.06	101	60.00	-28.56	vertical Average
6		3192.00	42.88	30.32	10.26	34.06	101	80.00	-30.60	vertical Peak
7		3519.00	26.27	30.49	10.77	34.43	40	60.00	-26.90	vertical Average
8		3519.00	39.89	30.49	10.77	34.43	40	80.00	-33.28	vertical Peak
9		4797.00	23.14	33.05	12.84	33.57	181	60.00	-24.54	vertical Average
10		4797.00	38.71	33.05	12.84	33.57	181	80.00	-28.97	vertical Peak

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3. Test Setup Photographs

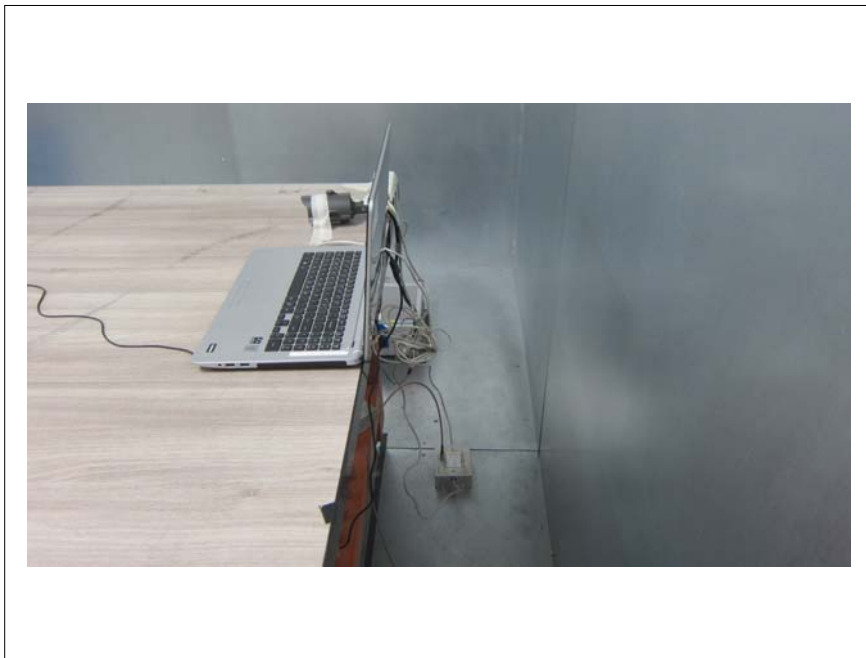
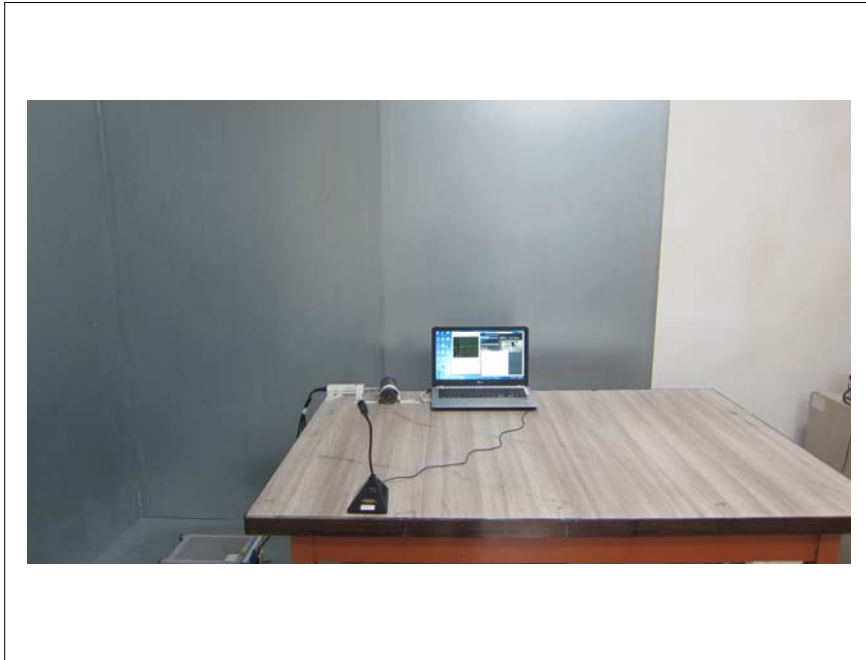
3.1 Conducted Emission

N/A

N/A

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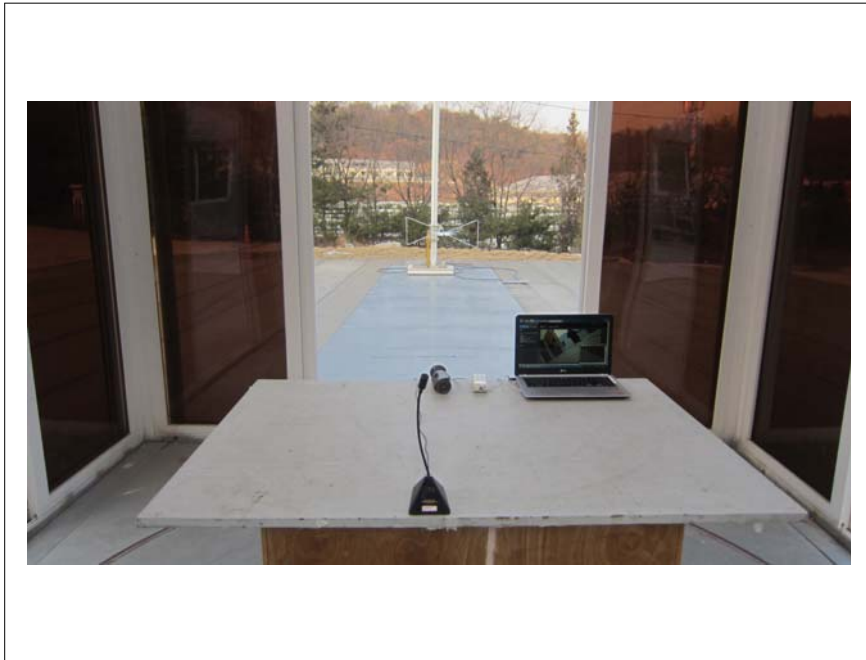
- **Telecommunication Emission**



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3.2 Radiated Emission

* Blow 1 GHz



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*** Above 1 GHz**



4. External Photographs



[FRONT VIEW]



[REAR VIEW]

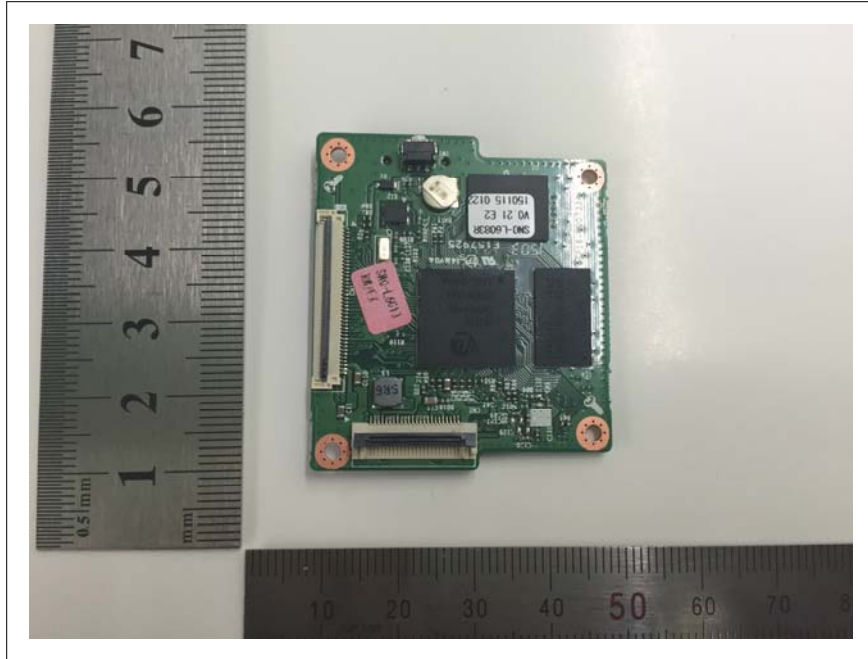
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5. Internal Photographs



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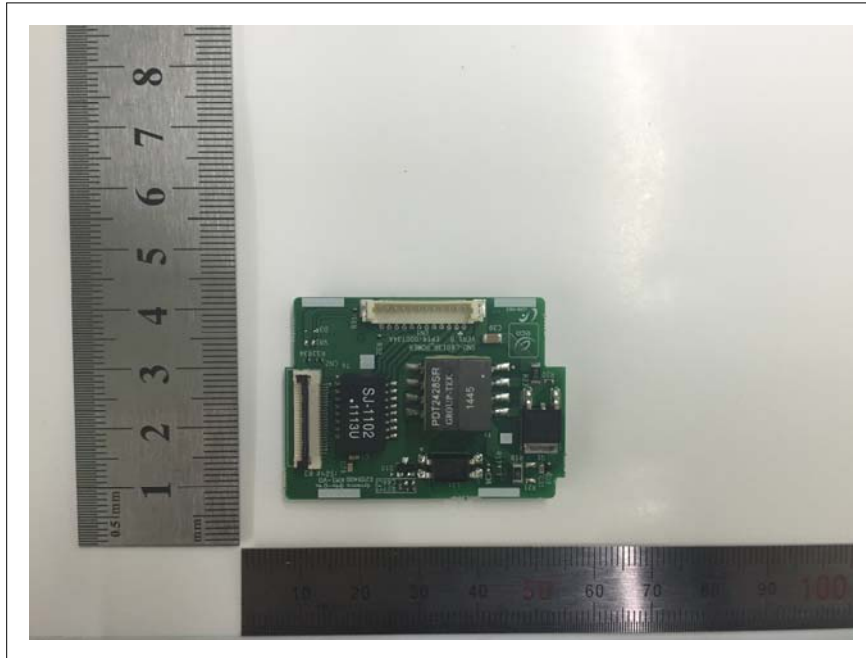
E.U.T: Internal View(Top) - Main Board



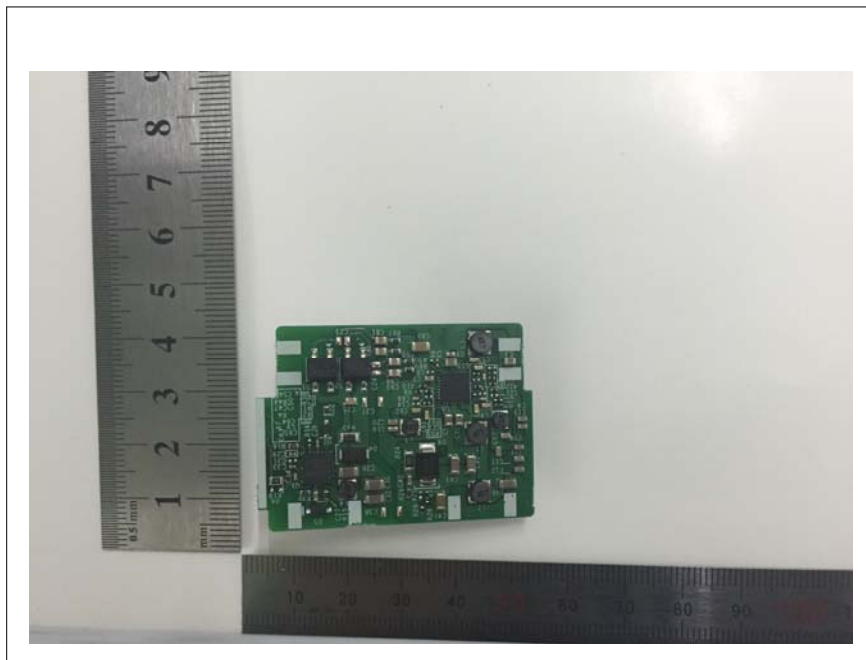
E.U.T: Internal View(Bottom) - Main Board



E.U.T: Internal View(Top) - Sub Board1

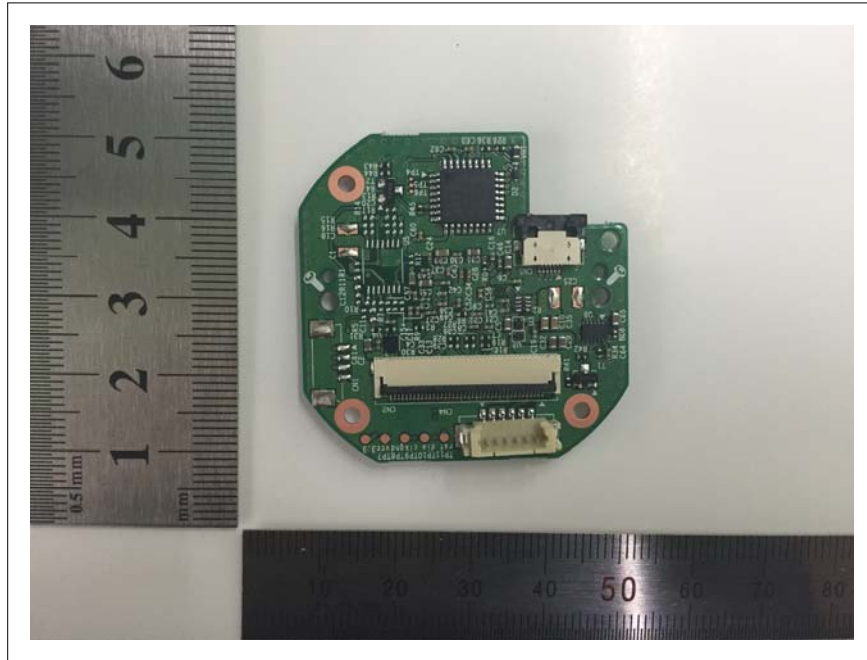


E.U.T: Internal View(Bottom) - Sub Board1

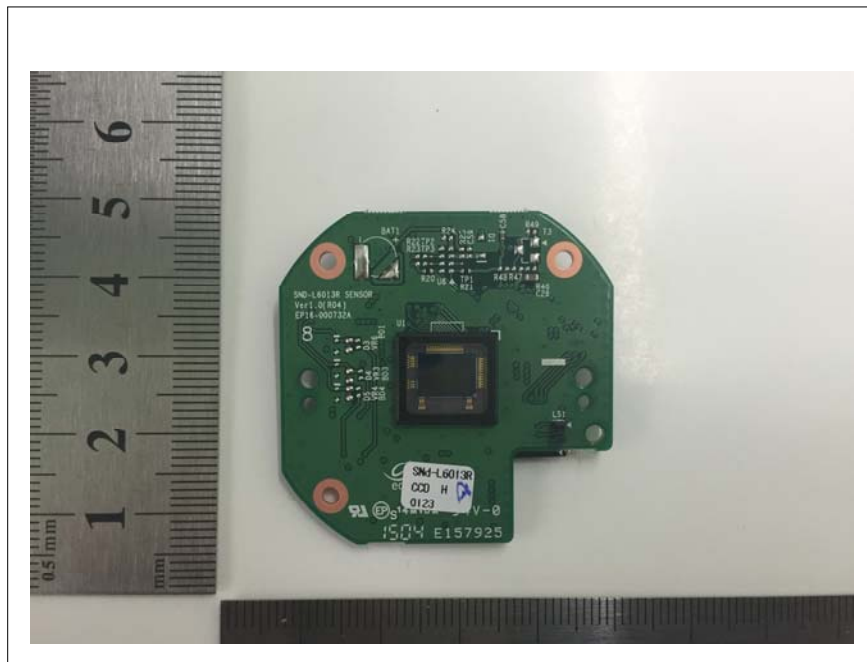


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E.U.T: Internal View(Top) - Sub Board2

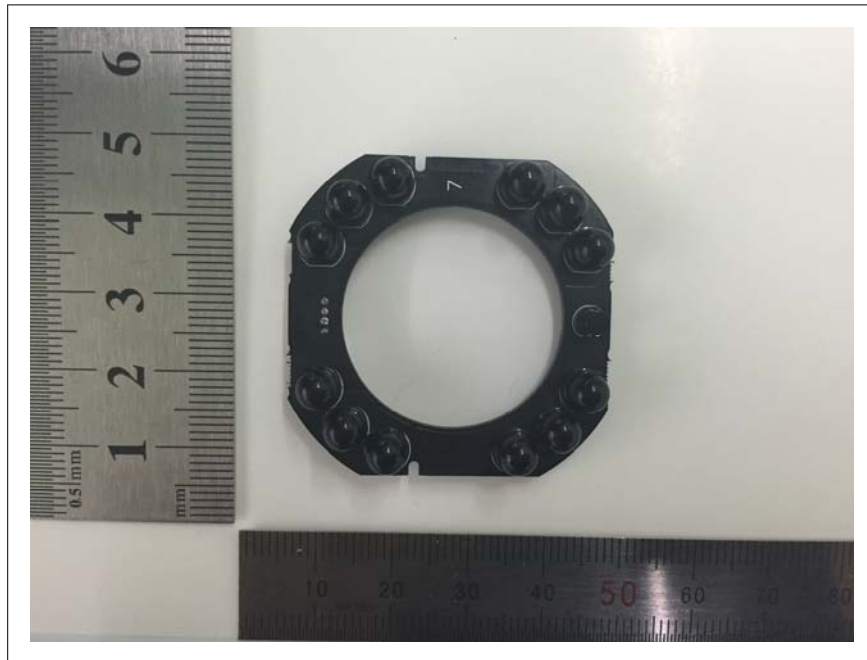


E.U.T: Internal View(Bottom) - Sub Board2

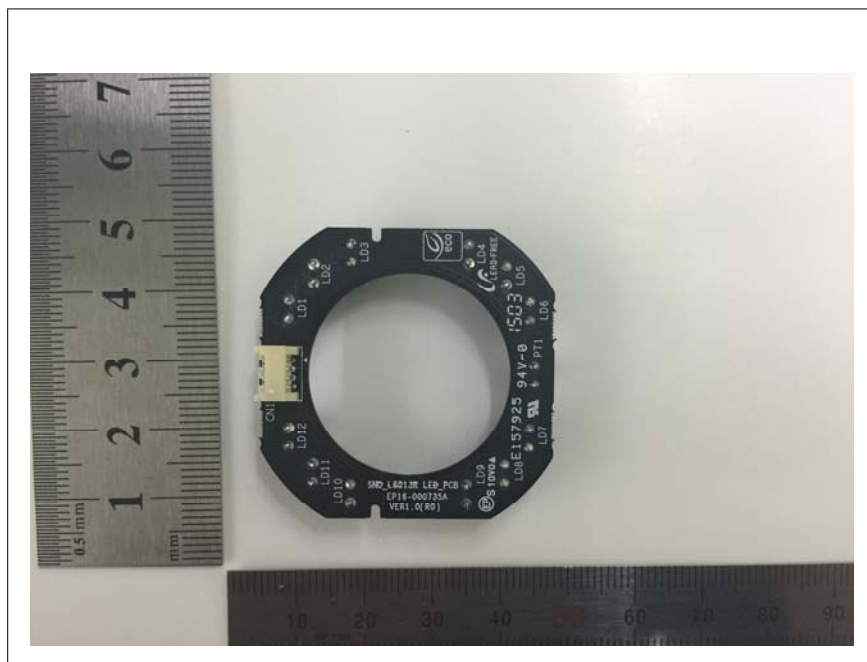


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E.U.T: Internal View(Top) - Sub Board3



E.U.T: Internal View(Bottom) - Sub Board3



E.U.T: Internal View(Top) - CAMERA



E.U.T: Internal View(Bottom) - CAMERA



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