

VERIFICATION OF FCC PART 15 COMPLIANCE

*KES hereby verify that the subject product complies with all the
electromagnetic emission specified in the FCC Rule Part 15*

Product Description:	ANALOG CAMERA
Model/Brand Name:	SCV-6023RN
Variant Model:	-
FCC Rule Part(s):	FCC 47CFR Part 15 Subpart B Class A Part 15.107(b) & Part 15.109(b)
FCC Procedure:	Verification
Applicant Name:	Hanwha Techwin Company Limited.
Applicant Address:	1204, Changwon-daero, Seongsan-gu, Changwon-si, Gyeongsangnam-do
Manufacturer Name:	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
Test Report Reference No.:	KES-E1-16T0016

ANALOG CAMERA, Model SCV-6023RN has been tested in accordance with the measurement procedures specified in FCC 47CFR Part 15 Subpart B class A and has been shown to be complied with the electromagnetic emission limits specified in FCC Rule Part 15 Subpart B class A. A testing of the sample product has been valid for the sample tested based on the reference test report, KES-E1-16T0016

Date of Issue: 12. 26. 2015

Dong Hun, Jang
Technical Manager
Signature:



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EMC TEST REPORT For FCC

Test Report No. : KES-E1-16T0016

Date of Issue : Jan. 26, 2016

Product name : ANALOG CAMERA

Model/Type No. : SCV-6023RN

Variant Model : -

Applicant : Hanwha Techwin Company Limited.

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

Equipment authorization : ☐ Declaration of Conformity
☒ Verification
☐ Certification

Date of Receipt : Jan. 06, 2016

Test date : Jan. 19, 2016

Test Results : ☒ In Compliance ☐ Not in Compliance

Tested by

Young Suk, Song
EMC Test Engineer

Reviewed by

Dong-Hun, Jang
EMC Technical Manager

REPORT REVISION HISTORY

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Date	Test Report No.	Revision History
Jan. 26, 2016	KES-E1-160016	Issued

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1.0 General Product Description

Main Specifications of EUT are:

	SCV-6023RN	SCV-6023RP
Video		
Imaging Device	1/2.9" 2M CMOS	
Total Pixels	2,000(H) x 1,121(V) 2.24M pixels	
Effective Pixels	1,984(H) x 1,105(V) 2.19M pixels	
Scanning System	Progressive Scan	
Horizontal Resolution	1000TVL	
Min. Illumination	Color : 0.45Lux (F2.1, 50IRE); 0.25Lux (F2.1, 30IRE) B/W : 0Lux(IR LED on)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	BNC(AHD, CVBS Selectable)	
Resolution	1920 x 1080	
Max. Framerate	30fps @1080p, 30fps@ 720p	
Lens Type		
Focal Length (Zoom Ratio)	4mm	
Max. Aperture Ratio	F2.1	
Angular Field of View	H : 82.2° / V : 44.1° / D : 97.8°	
Min. Object Distance	0.5m (1.64ft)	
Focus Control	Manual	
Lens Type	Fixed	
Mount Type	Board-in type	
Operational		
On Screen Display	Multi-language Support(16) English, Japanese, Spanish, French, Portuguese, Korean, German, Italian, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish	
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	Off / User BLC / HLC	
Wide Dynamic Range	D-WDR	
Digital Noise Reduction	SSNR4 (Off / On)	
Defog	AUTO / MANUAL / OFF	

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	SCV-6023RN	SCV-6023RP
Motion Detection	Off / On(4 zones)	
Privacy Masking	Off / On (4 zones rectangle)	
Gain Control	Off / Low / Middle / High / Very High	
White Balance	ATW / Outdoor / Indoor / Manual / AWC(1,800K° ~ 10,500K°)	
Electronic Shutter Speed	1 sec ~ 1/12,000 sec	
Reverse	Off / H-Rev / V-Rev / HV-Rev	
Profile	Basic, Day & Night, Backlight, ITS, Indoor, User	
Alarm	Not support	
Remote control interface	Coaxial	
Protocol	Coax : ACP	
IR Distance	20m(65.62ft)	
Video Transmission Distance	500m(75-5 Coaxial Cable)	
Environmental		
Operating Temperature / Humidity	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 90% RH * Start up should be done at above -10°C	
Ingress Protection	IP66	
Vandal Resistance	IK10	
Electrical		
Input Voltage	12VDC±10%	
Power Consumption	Max. 4.2W	
Mechanical		
Color / Material	Ivory / Aluminum	
Dimension (HxØ)	46 X Ø137mm	
Weight	560g	

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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.

Voltage ☐ 100 Vac ☐ 110 Vac ☐ 120 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
ANALOG CAMERA	SCV-6023RN	-	Tianjin Samsung Techwin Opto-Electronic Co., Ltd.	E.U.T

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
MONITOR	M1950DM	-	204KCXM31738	-
AC/DC Adapter	PA-1650-68	OE9FA612314100070	LITE-ON TECHNOLOGY CORPORATION	-

1.6 External I/O Cabling

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
ANALOG CAMERA	BNC	MONITOR	RCA	5.0	U

* Unshielded=U, Shielded=S

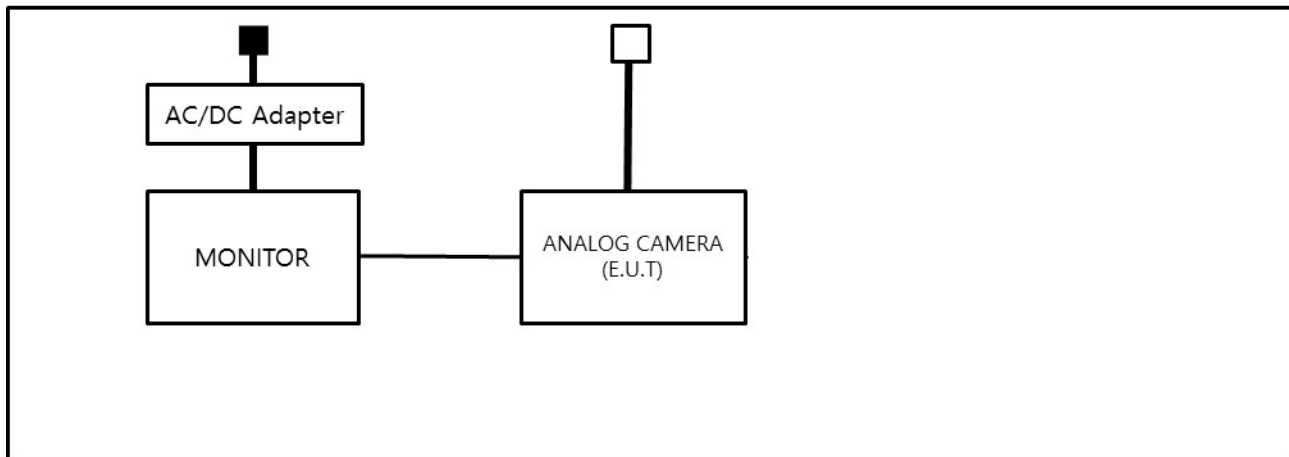
1.7 EUT Operating Mode(s)

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

Test mode	Normal operating
OP	MONITOR CHECK

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 2004/108/EC**

☐ 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



☐ **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



2.1 Conducted Emissions at Mains Power Ports

Test Date

N/A

Test Location

Electro wave Shieldroom

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☐	EMI Test Receiver	ESR3	R&S	101783	05, 06, 2016
☐	LISN	ENV216	R&S	101137	02, 10, 2016
☐	LISN	ENV216	R&S	101786	05, 06, 2016
☐	LISN	ESH2-Z5	R & S	100450	05, 06, 2016
☐	Electro wave Shieldroom	-	SEMITEC	-	-

Test Conditions

Temperature: °C
Relative Humidity: %

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. 19, 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, 06, 2016
☒	Trilog-Broadband Antenna	VULB 9163	SCHWARZBECK	9168-713	05, 15, 2017
☒	Open Area Test Site	-	KES	-	-
☒	Antenna Mast	-	DAEIL EMC	-	-
☒	Turn Table	-	DAEIL EMC	-	-

Test Conditions

Temperature: -7,8 °C

Relative Humidity: 41.0 %

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

Jan. 19, 2016

Test Location

Semi Anchoic Chamber #2

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test Receiver	ESU26	R&S	100552	05, 06, 2016
☒	Broadband Coaxial Preamplifier	BBV 9718	Schwarzbeck Mess - Elektronik	9718-246	10, 23, 2016
☒	DOUBLE RIDGED HORN ANTENNA	SAS-571	A.H.SYSTEM,INC	781	05, 07, 2017
☒	Semi Anchoic Chamber #2	-	SEMITEC	-	-
☒	Antenna Mast	-	AUDIX	-	-
☒	Turn Table	-	AUDIX	-	-

Test Conditions

Temperature: 19,7 °C
Relative Humidity: 38,2 %

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]

N/A



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[NEUTRAL]

N/A

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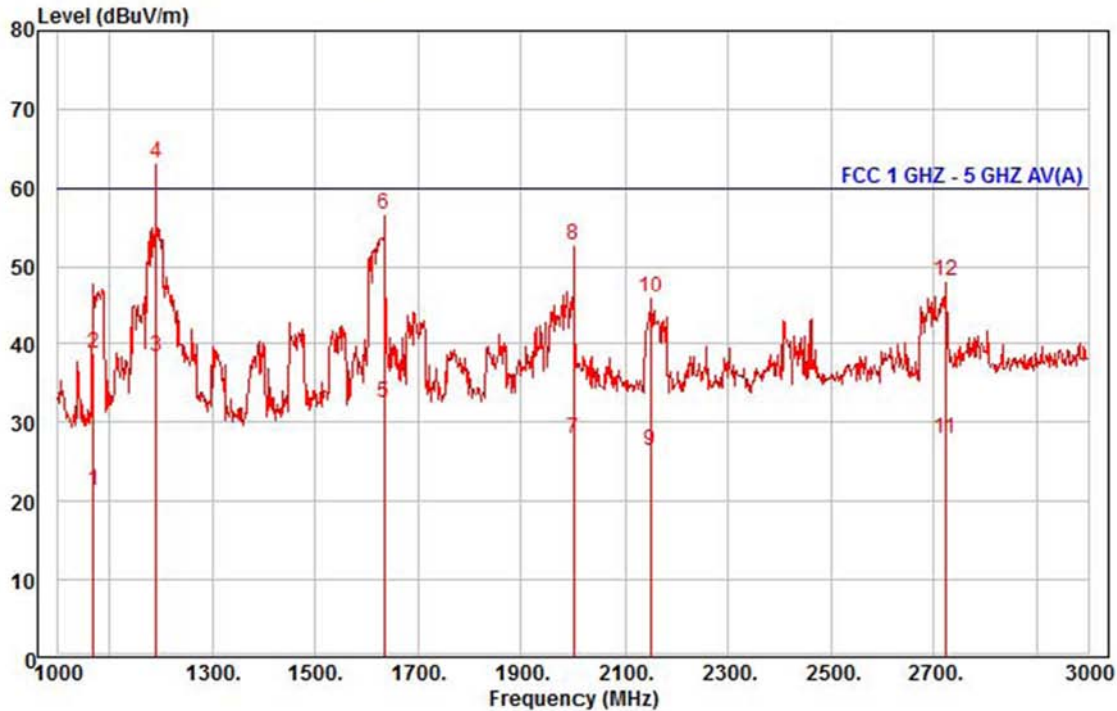


Radiated Electric Field Emissions(Below 1 GHz)

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]
210.37	16.20	H	2.30	11.53	3.98	31.71	43.50	11.79
222.95	11.87	H	1.20	11.81	4.07	27.75	46.40	18.65
260.81	10.33	V	1.39	12.62	4.42	27.37	46.40	19.03
260.86	13.96	H	1.74	12.62	4.42	31.00	46.40	15.40
297.75	9.30	V	1.22	13.34	4.90	27.54	46.40	18.86
371.30	19.36	H	2.36	15.03	5.45	39.84	46.40	6.56
371.48	11.25	V	1.00	15.04	5.45	31.74	46.40	14.66
519.75	12.95	V	1.25	17.53	6.74	37.22	46.40	9.18
519.77	10.28	H	2.33	17.53	6.74	34.55	46.40	11.85

* H : Horizontal, V : Vertical

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 : SCV-6023RN
Mode : FCC
Memo : 1 ~ 3 GHz

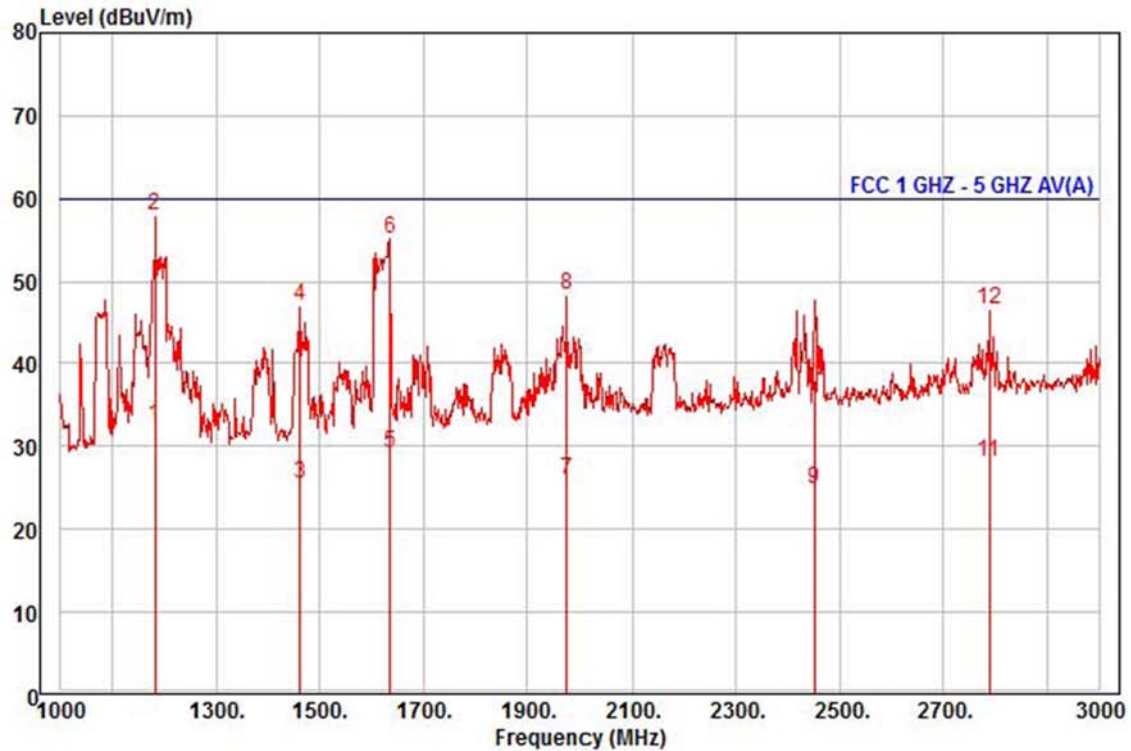
	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	TPos	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	deg	dBuV/m	dB		
1	1068.00	30.93	24.18	6.25	40.09	39	60.00	-38.73	horizontal	Average
2	1068.00	48.46	24.18	6.25	40.09	39	80.00	-41.20	horizontal	Peak
3 av	1190.00	47.22	24.66	6.60	40.03	19	60.00	-21.55	horizontal	Average
4 pp	1190.00	71.96	24.66	6.60	40.03	19	80.00	-16.81	horizontal	Peak
5	1634.00	37.95	26.43	7.87	39.81	39	60.00	-27.56	horizontal	Average
6	1634.00	62.17	26.43	7.87	39.81	39	80.00	-23.34	horizontal	Peak
7	2002.00	30.64	27.88	8.93	39.63	68	60.00	-32.18	horizontal	Average
8	2002.00	55.56	27.88	8.93	39.63	68	80.00	-27.26	horizontal	Peak
9	2148.00	28.42	28.24	9.33	39.72	359	60.00	-33.73	horizontal	Average
10	2148.00	48.14	28.24	9.33	39.72	359	80.00	-34.01	horizontal	Peak
11	2722.00	27.34	29.65	10.93	40.05	28	60.00	-32.13	horizontal	Average
12	2722.00	47.58	29.65	10.93	40.05	28	80.00	-31.89	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 : SCV-6023RN
Mode : FCC
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 av	1182.00	41.36	24.63	6.57	40.03	13	60.00	-27.47	vertical	Average
2 pp	1182.00	66.84	24.63	6.57	40.03	13	80.00	-21.99	vertical	Peak
3	1462.00	32.37	25.74	7.38	39.89	21	60.00	-34.40	vertical	Average
4	1462.00	53.79	25.74	7.38	39.89	21	80.00	-32.98	vertical	Peak
5	1636.00	34.68	26.43	7.88	39.81	15	60.00	-30.82	vertical	Average
6	1636.00	60.71	26.43	7.88	39.81	15	80.00	-24.79	vertical	Peak
7	1976.00	28.91	27.78	8.85	39.64	4	60.00	-34.10	vertical	Average
8	1976.00	51.48	27.78	8.85	39.64	4	80.00	-31.53	vertical	Peak
9	2452.00	25.68	28.99	10.18	39.89	186	60.00	-35.04	vertical	Average
10	2452.00	38.61	28.99	10.18	39.89	186	80.00	-42.11	vertical	Peak
11	2788.00	27.32	29.81	11.11	40.09	24	60.00	-31.85	vertical	Average
12	2788.00	45.86	29.81	11.11	40.09	24	80.00	-33.31	vertical	Peak

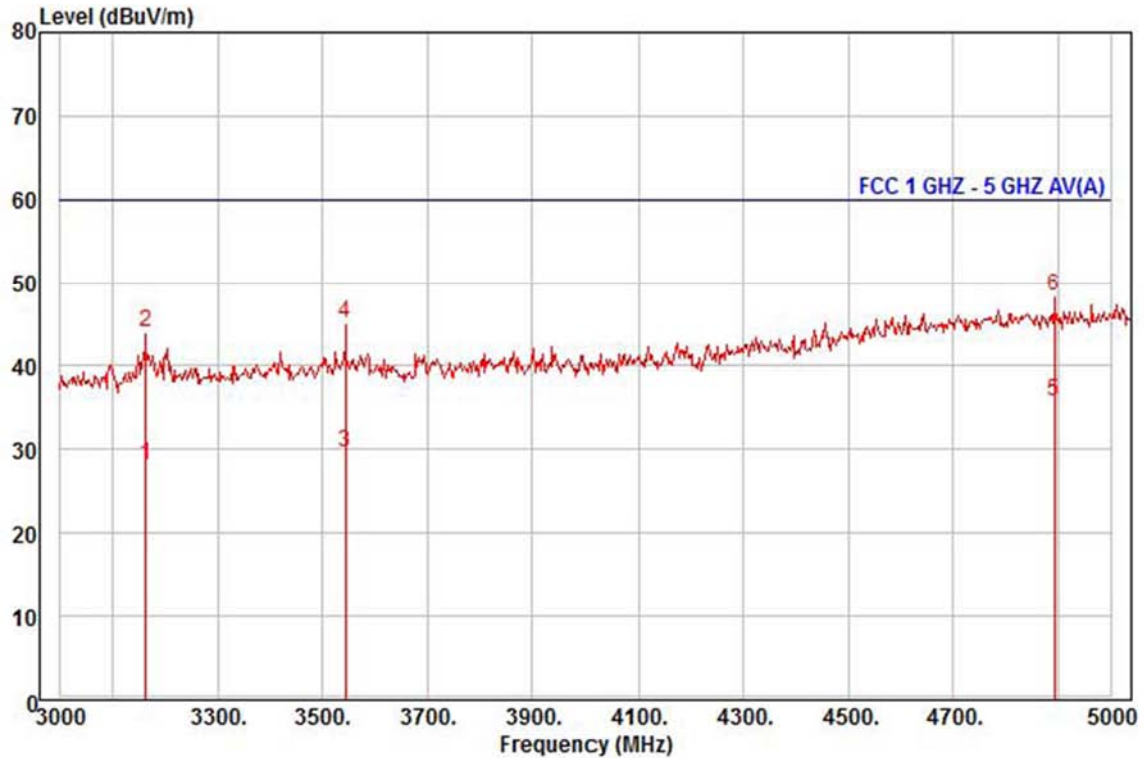
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Site : chamber
Condition: FCC 1 GHz - 5 GHz PK(A) 3m HORN781(2015.05.07) horizontal
: RBW:1000.000kHz VBW:1000.000kHz SWT:Auto
Project :
Model : SCV-6023RN
Mode : FCC
Memo : 3 ~ 5 GHz

	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	3162.00	25.80	30.60	11.92	40.24	55	60.00	-31.92	horizontal	Average
2	3162.00	41.78	30.60	11.92	40.24	55	80.00	-35.94	horizontal	Peak
3	3543.00	26.39	31.24	12.42	40.32	330	60.00	-30.27	horizontal	Average
4	3543.00	41.85	31.24	12.42	40.32	330	80.00	-34.81	horizontal	Peak
5 pp	4893.00	24.27	37.11	14.67	40.41	151	60.00	-24.36	horizontal	Average
6 pk	4893.00	37.00	37.11	14.67	40.41	151	80.00	-31.63	horizontal	Peak

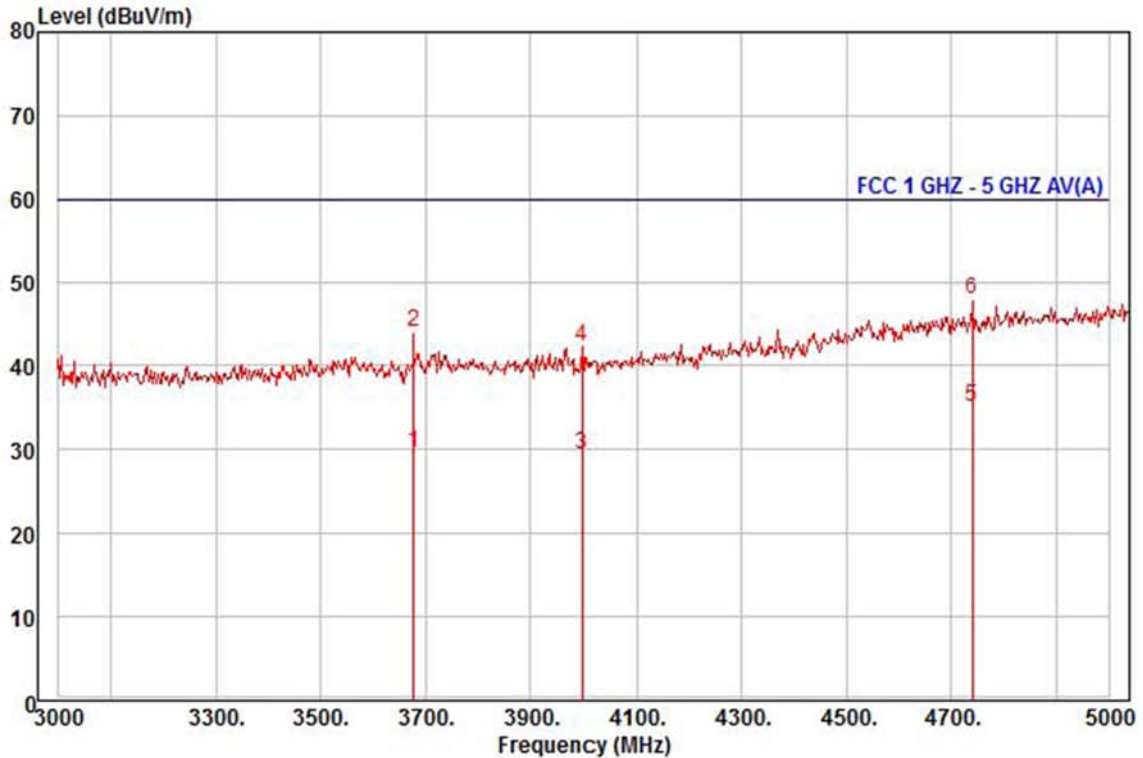
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Condition: FCC 1 GHz - 5 GHz PK(A) 3m HORN781(2015.05.07) vertical
: RBW:1000.000kHz VBW:1000.000kHz SWT:Auto
Project :
Model : SCV-6023RN
Mode : FCC
Memo : 3 ~ 5 GHz

	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	3678.00	25.84	31.47	12.60	40.35	1	60.00	-30.44	vertical	Average
2	3678.00	40.42	31.47	12.60	40.35	1	80.00	-35.86	vertical	Peak
3	3999.00	24.86	32.01	13.03	40.41	170	60.00	-30.51	vertical	Average
4	3999.00	37.62	32.01	13.03	40.41	170	80.00	-37.75	vertical	Peak
5 pp	4740.00	24.78	36.24	14.39	40.41	164	60.00	-25.00	vertical	Average
6 pk	4740.00	37.75	36.24	14.39	40.41	164	80.00	-32.03	vertical	Peak

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Test report No.:
KES-E1-16T0016
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Test Setup Photos and Configuration

Conducted Voltage Emissions

N/A

N/A

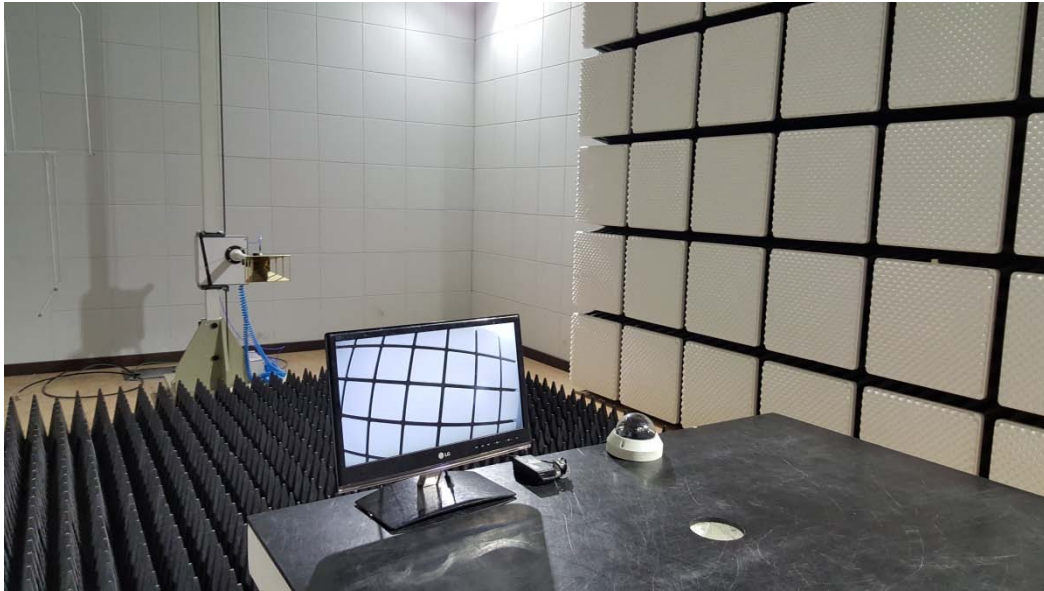
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Radiated Electric Field Emissions(Below 1 GHz)



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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)



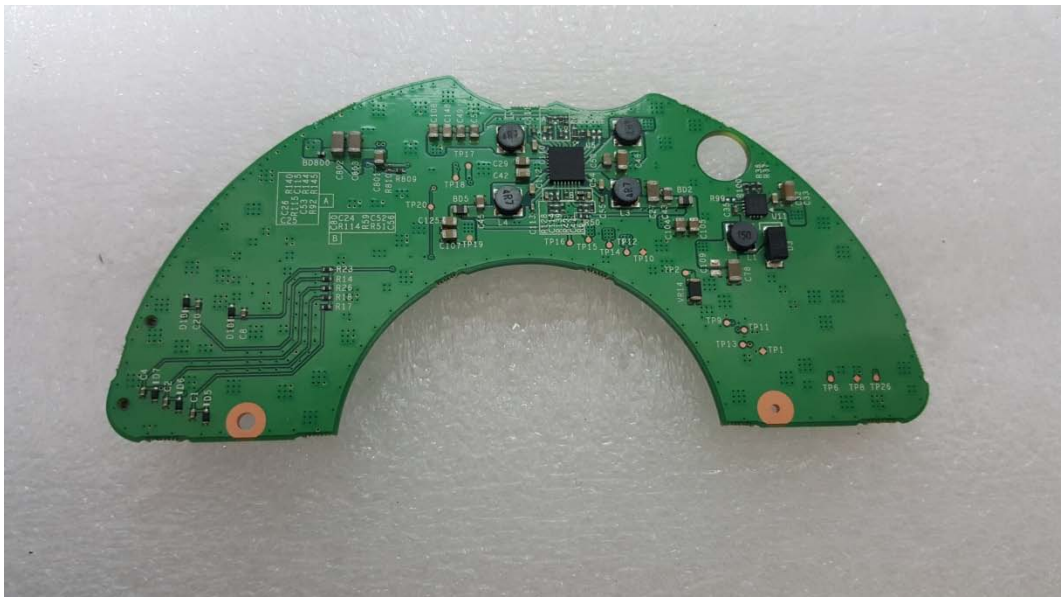
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Main Board EUT Internal View – Main Board

(Top)



(Bottom)



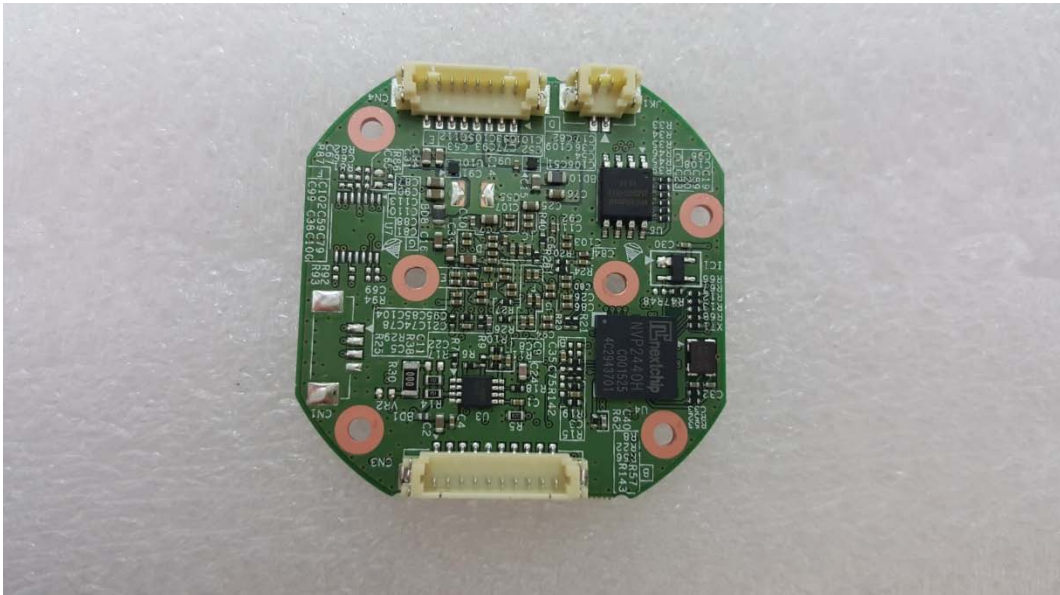
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Main Board EUT Internal View – Lens

(Top)



(Bottom)



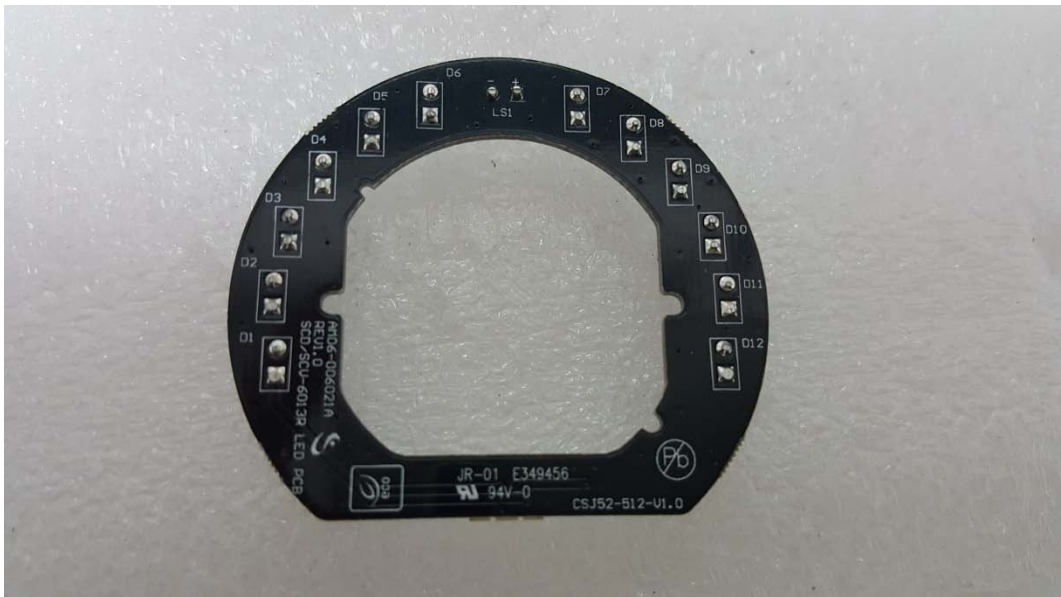
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Main Board EUT Internal View – LED

(Top)



(Bottom)



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Label Photographs



This device complies with part 15 of the FCC Rules. Operation in 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.