

## FCC PART 15.247

## TEST REPORT

For

### Hyndsight Vision Systems Inc

59 Pine Street, Peterborough, NH 03458, United States

**FCC ID: 2ACT7-CJTX**

<b>Report Type:</b> Class II permissive change	<b>Product Type:</b> Hyndsight Vision System Camera
<b>Test Engineer:</b> <u>Sevin Li</u>	<i>Sevin Li</i>
<b>Report Number:</b> <u>RDG141010004-00AA1</u>	
<b>Report Date:</b> <u>2014-12-19</u>	
<b>Reviewed By:</b> <u>Sula Huang RF Engineer</u>	<i>Sula Huang</i>
<b>Test Laboratory:</b>	Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 <a href="http://www.baclcorp.com.cn">www.baclcorp.com.cn</a>

**Note:** This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan). This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

## **TABLE OF CONTENTS**

<b>GENERAL INFORMATION.....</b>	<b>3</b>
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) .....	3
OBJECTIVE .....	3
RELATED SUBMITTAL(S)/GRANT(S).....	3
TEST METHODOLOGY .....	3
TEST FACILITY .....	3
<b>SYSTEM TEST CONFIGURATION.....</b>	<b>5</b>
DESCRIPTION OF TEST CONFIGURATION .....	5
EQUIPMENT MODIFICATIONS .....	5
SUPPORT CABLE LIST AND DETAILS .....	5
BLOCK DIAGRAM OF TEST SETUP .....	6
<b>SUMMARY OF TEST RESULTS.....</b>	<b>7</b>
<b>FCC §15.247 (i) &amp; §1.1307 (b) (1) &amp; §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE).....</b>	<b>8</b>
APPLICABLE STANDARD .....	8
<b>FCC §15.203 - ANTENNA REQUIREMENT.....</b>	<b>9</b>
APPLICABLE STANDARD .....	9
ANTENNA CONNECTOR CONSTRUCTION .....	9
<b>FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS .....</b>	<b>10</b>
APPLICABLE STANDARD .....	10
MEASUREMENT UNCERTAINTY.....	10
EUT SETUP .....	10
EMI TEST RECEIVER SETUP.....	11
TEST PROCEDURE .....	11
CORRECTED AMPLITUDE & MARGIN CALCULATION .....	11
TEST EQUIPMENT LIST AND DETAILS.....	12
TEST RESULTS SUMMARY .....	12
TEST DATA .....	12
<b>FCC §15.209, §15.205 &amp; §15.247(d) - SPURIOUS EMISSIONS.....</b>	<b>15</b>
APPLICABLE STANDARD .....	15
MEASUREMENT UNCERTAINTY.....	15
EUT SETUP .....	15
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP .....	16
TEST PROCEDURE .....	16
TEST EQUIPMENT LIST AND DETAILS.....	17
CORRECTED AMPLITUDE & MARGIN CALCULATION .....	17
TEST RESULTS SUMMARY .....	17
TEST DATA .....	17

## GENERAL INFORMATION

---

### Product Description for Equipment under Test (EUT)

The *Hyndsight Vision Systems Inc's* product, model number: *HVS-001C (FCC ID: 2ACT7-CJTX)* or ("EUT") in this report is a *Hyndsight Vision System Camera*, rated input voltage: DC3.7V rechargeable Li-ion battery or DC5V charging from adapter.

Adapter information: KUANTEN  
Model: SSA021F050100USU  
Input: AC 100-240V, 50/60Hz, 0.2A  
Output: DC 5V, 1A

*\* All measurement and test data in this report was gathered from production sample serial number: 140725002(Assigned by BACL, Dongguan).The EUT was received on 2014-07-25.*

### Objective

This report is prepared on behalf of *Hyndsight Vision Systems Inc* in accordance with Part 2, Subpart J, Part 15, Subparts A, B and C of the Federal Communications Commission's rules.

The tests were performed in order to determine the EUT compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

This is the CHIPC application of the device. The difference between the original device and current one is:the layer numbers of PCB is changed 4 . Please refer to the Permissive Change Declaration Letter.

For the changes made to the device, it will impact the CE and RE test results, so the test data will be updated.

### Related Submittal(s)/Grant(s)

Original submission with FCC ID: 2ACT7-CJTX which is granted on 2014-09-30.

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

### Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 02,

2012. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

FINAL

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

The system was configured for testing in an engineering mode.

19 hopping channels are provided by manufacturer, and the EUT was tested with low channel: 2410.875 MHz, middle channel: 2441.25MHz, and high channel: 2471.625MHz.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2410.875	11	2444.625
2	2414.25	12	2448
3	2417.625	13	2451.375
4	2421	14	2454.75
5	2424.375	15	2458.125
6	2427.75	16	2461.5
7	2431.125	17	2464.875
8	2434.5	18	2468.25
9	2438.875	19	2471.625
10	2441.25	/	/

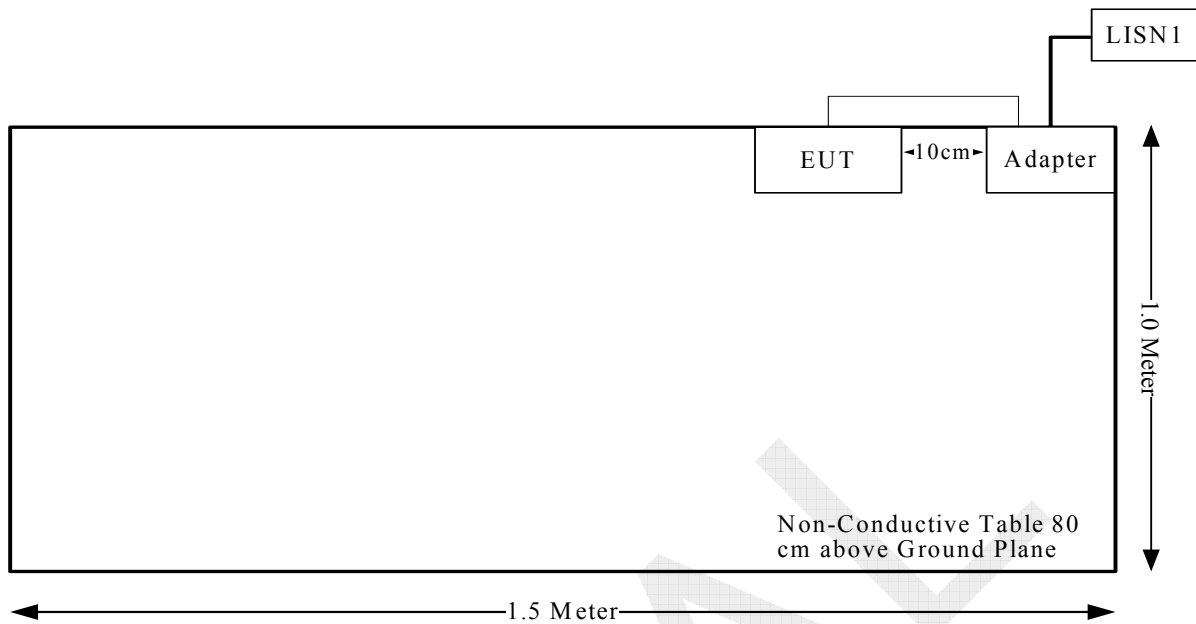
### Equipment Modifications

N/A

### Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Adapter Cable	No	Yes	1.5	Adapter	EUT

## Block Diagram of Test Setup



**SUMMARY OF TEST RESULTS**

FCC Rules	Description of Test	Result
§15.247 (i), §1.1307,§2.1091	Maximum Permissible Exposure	Compliance
§15.203	Antenna Requirement	Compliance*
§15.207 (a)	Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Radiated Emissions	Compliance
§15.247 (a)(1)	20 dB Bandwidth	Compliance*
§15.247(a)(1)	Channel Separation Test	Compliance*
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliance*
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliance*
§15.247(b)(1)	Peak Output Power Measurement	Compliance*
§15.247(d)	Band Edges	Compliance*

Compliance\*: Please refer to the report number RDG140725002-00A granted on 2014-09-30, with FCC ID: 2ACT7-CJTX.

## FCC §15.247 (i) & §1.1307 (b) (1) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

### Applicable Standard

According to subpart 15.247(i) and subpart §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; \* = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

### Calculated Formulary:

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$  = power density (in appropriate units, e.g. mW/cm<sup>2</sup>);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

### Calculated Data:

Frequency (MHz)	Antenna Gain		Conducted Power		Evaluation Distance (cm)	Power Density (mW/cm <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )
	(dBi)	(numeric)	(dBm)	(mW)			
2471.625	2.0	1.58	14.06	25.47	20	0.01	1.0

**Result:** The device meet FCC MPE at 20cm distance.



## **FCC §15.203 - ANTENNA REQUIREMENT**

---

### **Applicable Standard**

According to FCC § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### **Antenna Connector Construction**

This product used one external detachable monopole antenna and with RP-SMA female connector, the maximum gain is 2.0 dBi, which fulfill the requirement of this section, please refer to the EUT photos.

**Result:** Compliance.

## FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

### Applicable Standard

FCC§15.207

### Measurement Uncertainty

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If  $U_{lab}$  is less than or equal to  $U_{cisp}$  of Table 1, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If  $U_{lab}$  is greater than  $U_{cisp}$  of Table 1, then:

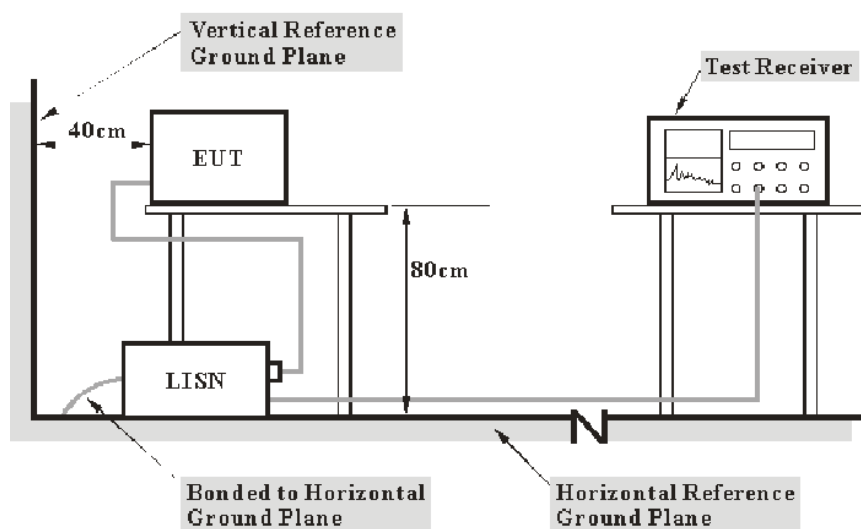
- compliance is deemed to occur if no measured disturbance level, increased by  $(U_{lab} - U_{cisp})$ , exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by  $(U_{lab} - U_{cisp})$ , exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.46 dB (150 kHz to 30 MHz).

Table 1 – Values of  $U_{cisp}$

Measurement	$U_{cisp}$
Conducted disturbance at mains port using AMN (150 kHz to 30 MHz)	3.4 dB

### EUT Setup



- Note: 1. Support units were connected to second LISN.  
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source.

### EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

### Test Procedure

During the conducted emission test, the adapter or EUT was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

### Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

$$C_f = A_C + VDF$$

Herein,

$V_C$  (cord. Reading): corrected voltage amplitude

$V_R$ : reading voltage amplitude

$A_C$ : attenuation caused by cable loss

VDF: voltage division factor of AMN

$C_f$ : Correction Factor

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCS 30	830245/006	2014-10-16	2015-10-16
R&S	L.I.S.N	ESH3-Z5	843331/015	2013-09-25	2014-09-25
R&S	Two-line V-network	ENV 216	3560.6550.12	2014-01-22	2015-01-22
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Results Summary**

According to the recorded data in following table, the EUT complied with the FCC Part 15.207, with the worst margin reading of:

**12.8 at 1.239175 MHz** in the **Line** conducted mode

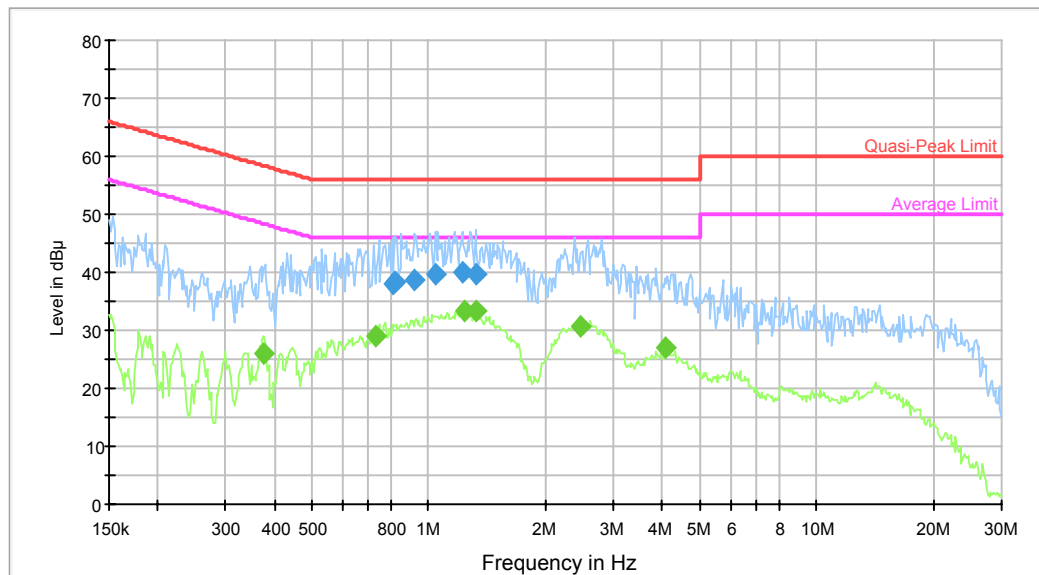
**Test Data****Environmental Conditions**

Temperature:	21.1 °C
Relative Humidity:	29 %
ATM Pressure:	100.8.8kPa

*The testing was performed by Sevin Li on 2014-12-17.*

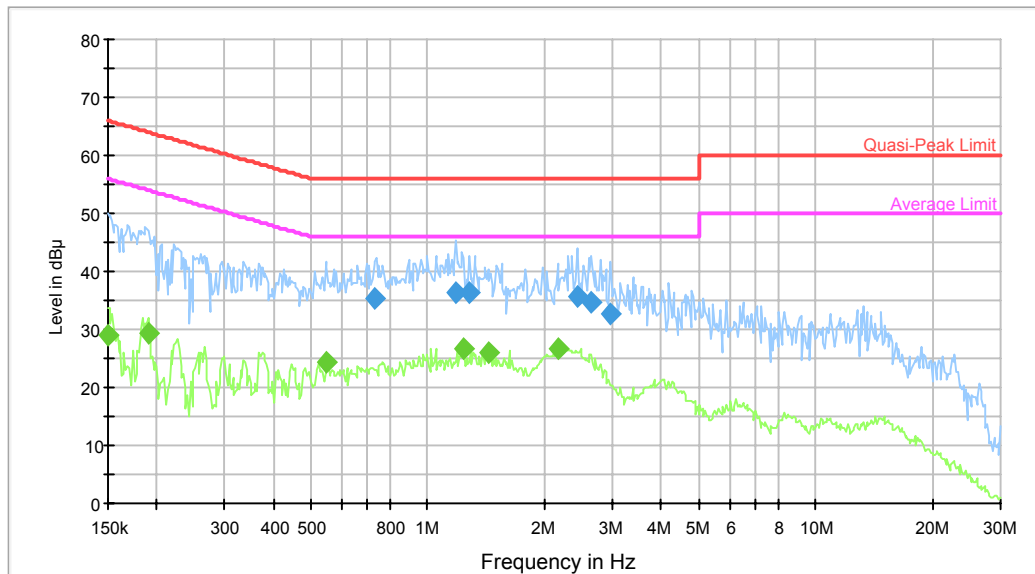
Test Mode: Operating

AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)	Comment
0.805868	38.1	9.000	L1	10.5	17.9	56.0	Compliance
0.818813	38.2	9.000	L1	10.5	17.8	56.0	Compliance
0.922769	38.8	9.000	L1	10.5	17.2	56.0	Compliance
1.039922	39.6	9.000	L1	10.4	16.4	56.0	Compliance
1.219583	39.9	9.000	L1	10.4	16.1	56.0	Compliance
1.320738	39.7	9.000	L1	10.4	16.3	56.0	Compliance

Frequency (MHz)	Average (dB $\mu$ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)	Comment
0.375019	25.9	9.000	L1	10.6	22.5	48.4	Compliance
0.732382	28.9	9.000	L1	10.6	17.1	46.0	Compliance
1.239175	33.2	9.000	L1	10.4	12.8	46.0	Compliance
1.331304	33.1	9.000	L1	10.4	12.9	46.0	Compliance
2.458886	30.6	9.000	L1	10.5	15.4	46.0	Compliance
4.094608	27.0	9.000	L1	10.7	19.0	46.0	Compliance

**AC120 V, 60 Hz, Neutral:**

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.732382	35.5	9.000	N	10.6	20.5	56.0	Compliance
1.181325	36.3	9.000	N	10.5	19.7	56.0	Compliance
1.279307	36.5	9.000	N	10.5	19.5	56.0	Compliance
2.439371	35.5	9.000	N	10.5	20.5	56.0	Compliance
2.641698	34.7	9.000	N	10.5	21.3	56.0	Compliance
2.953456	32.7	9.000	N	10.6	23.3	56.0	Compliance

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.150000	29.0	9.000	N	10.2	27.0	56.0	Compliance
0.190505	29.2	9.000	N	11.1	24.8	54.0	Compliance
0.549741	24.2	9.000	N	10.3	21.8	46.0	Compliance
1.239175	26.6	9.000	N	10.5	19.4	46.0	Compliance
1.430284	25.9	9.000	N	10.5	20.1	46.0	Compliance
2.164561	26.8	9.000	N	10.5	19.2	46.0	Compliance

## FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

### Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

### Measurement Uncertainty

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If  $U_{lab}$  is less than or equal to  $U_{cispr}$  of Table 2, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If  $U_{lab}$  is greater than  $U_{cispr}$  of Table 1, then:

- compliance is deemed to occur if no measured disturbance level, increased by  $(U_{lab} - U_{cispr})$ , exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by  $(U_{lab} - U_{cispr})$ , exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is:

30M~200MHz: 5.0 dB

200M~1GHz: 6.2 dB

1G~6GHz: 4.45 dB

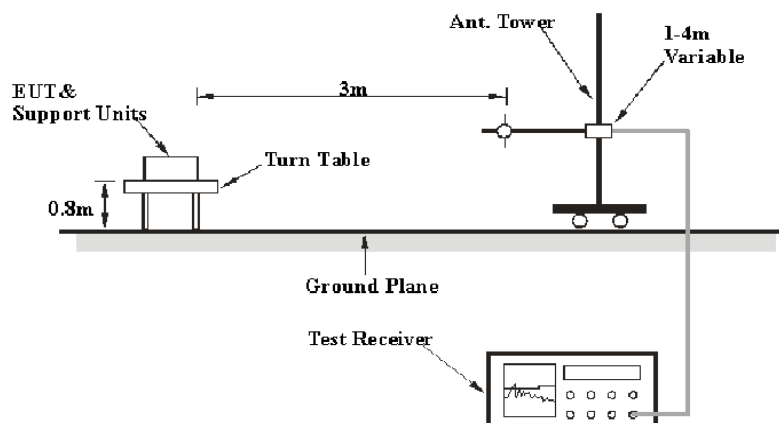
6G~18GHz: 5.23 dB

Table 2 – Values of  $U_{cispr}$

Measurement	$U_{cispr}$
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB

### EUT Setup

Below 1GHz:



**Above 1GHz:**

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source.

**EMI Test Receiver & Spectrum Analyzer Setup**

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	Ave.

**Test Procedure**

For the radiated emissions test, the adapter or EUT was connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz - 1 GHz, peak and Average detection modes for frequencies above 1 GHz.



**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2014-05-09	2015-05-09
Sunol Sciences	Antenna	JB3	A060611-3	2014-07-28	2017-07-27
HP	Amplifier	8447E	2434A02181	2014-09-01	2015-09-01
R&S	Spectrum Analyzer	FSP 38	100478	2014-05-09	2015-05-09
ETS LINDGREN	Horn Antenna	3115	000 527 35	2012-09-06	2015-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2014-02-19	2015-02-19
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-01 1304	2014-06-16	2017-06-15
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2014-09-06	2015-09-06

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Corrected Amplitude & Margin Calculation**

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

**Test Results Summary**

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, and section 15.205, 15.209 and 15.247, with the worst margin reading of:

**2.51 dB at 2483.5 MHz in the Horizontal polarization**

**Test Data****Environmental Conditions**

<b>Temperature:</b>	22.7 °C
<b>Relative Humidity:</b>	61 %
<b>ATM Pressure:</b>	100.8kPa

*The testing was performed by Sevin Li on 2014-12-17.*

Test Mode: Transmitting

Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	FCC 15.247	
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)				Limit (dBμV/m)	Margin (dB)
Low Channel: 2410.875 MHz									
2410.875	67.38	PK	H	25.67	4.42	0.00	97.47	N/A	N/A
2410.875	62.63	AV	H	25.67	4.42	0.00	92.72	N/A	N/A
2410.875	76.97	PK	V	25.67	4.42	0.00	107.06	N/A	N/A
2410.875	71.72	AV	V	25.67	4.42	0.00	101.81	N/A	N/A
2390	31.47	PK	V	25.61	4.39	0.00	61.47	74.00	12.53
2390	16.46	AV	V	25.61	4.39	0.00	46.46	54.00	7.54
4821.75	42.31	PK	H	30.64	6.02	27.41	51.56	74.00	22.44
4821.75	33.12	AV	H	30.64	6.02	27.41	42.37	54.00	11.63
7232.625	34.19	PK	H	34.16	7.47	25.90	49.92	74.00	24.08
7232.625	22.87	AV	H	34.16	7.47	25.90	38.60	54.00	15.40
9643.5	28.47	PK	H	36.04	8.80	27.47	45.84	74.00	28.16
9643.5	16.56	AV	H	36.04	8.80	27.47	33.93	54.00	20.07
3215	42.66	PK	H	27.89	6.52	27.36	49.71	74.00	24.29
3215	38.25	AV	H	27.89	6.52	27.36	45.30	54.00	8.70
335	43.98	QP	V	14.74	2.18	21.61	39.29	46.00	6.71
Middle Channel: 2441.25 MHz									
2441.25	68.11	PK	H	25.75	4.40	0.00	98.26	N/A	N/A
2441.25	63.24	AV	H	25.75	4.40	0.00	93.39	N/A	N/A
2441.25	78.83	PK	V	25.75	4.40	0.00	108.98	N/A	N/A
2441.25	73.88	AV	V	25.75	4.40	0.00	104.03	N/A	N/A
4882.5	41.72	PK	H	30.79	6.08	27.42	51.17	74.00	22.83
4882.5	32.83	AV	H	30.79	6.08	27.42	42.28	54.00	11.72
7323.75	33.47	PK	H	34.38	7.51	25.88	49.48	74.00	24.52
7323.75	22.11	AV	H	34.38	7.51	25.88	38.12	54.00	15.88
9765	28.75	PK	H	36.34	8.83	27.20	46.72	74.00	27.28
9765	16.42	AV	H	36.34	8.83	27.20	34.39	54.00	19.61
2602	41.79	PK	H	26.17	4.64	27.42	45.18	74.00	28.82
2602	34.11	AV	H	26.17	4.64	27.42	37.50	54.00	16.50
3215	42.12	PK	H	27.89	6.52	27.36	49.17	74.00	24.83
3215	38.11	AV	H	27.89	6.52	27.36	45.16	54.00	8.84
335	44.12	QP	H	14.74	2.18	21.61	39.43	46.00	6.57
High Channel: 2471.625 MHz									
2471.625	68.72	PK	H	25.83	4.46	0.00	99.01	N/A	N/A
2471.625	63.77	AV	H	25.83	4.46	0.00	94.06	N/A	N/A
2471.625	79.69	PK	V	25.83	4.46	0.00	109.98	N/A	N/A
2471.625	73.73	AV	V	25.83	4.46	0.00	104.02	N/A	N/A
2483.5	36.41	PK	H	25.86	4.49	0.00	66.76	74.00	7.24
2483.5	21.14	AV	H	25.86	4.49	0.00	51.49	54.00	2.51 *
4943.25	42.03	PK	H	30.95	5.89	27.43	51.44	74.00	22.56
4943.25	32.93	AV	H	30.95	5.89	27.43	42.34	54.00	11.66
7414.875	32.16	PK	H	34.60	7.56	25.90	48.42	74.00	25.58
7414.875	21.45	AV	H	34.60	7.56	25.90	37.71	54.00	16.29
9886.5	28.14	PK	H	36.63	8.86	26.79	46.84	74.00	27.16
9886.5	16.46	AV	H	36.63	8.86	26.79	35.16	54.00	18.84
3215	43.24	PK	H	27.89	6.52	27.36	50.29	74.00	23.71
3215	38.22	AV	H	27.89	6.52	27.36	45.27	54.00	8.73
335	44.06	QP	H	14.74	2.18	21.61	39.37	46.00	6.63

\*Within measurement uncertainty!

\*\*\*\*\* END OF REPORT \*\*\*\*\*