

## FCC PART 15.225

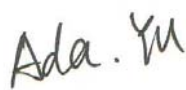
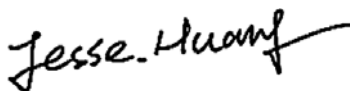
### TEST REPORT

For

**Smartx Network Technology(Shanghai) Co., Ltd.**

Room 502-5, Building No. 23, No. 518, Xinzhuang Rd. Songjiang District, Shanghai

**FCC ID: 2AGE5-ZEGA0003**

<b>Report Type:</b> Original Report	<b>Product Type:</b> Intelligent Toys
<b>Test Engineer:</b> Ada Yu 	
<b>Report Number:</b> RKS161011002-00G	
<b>Report Date:</b> 2016-11-01	
<b>Reviewed By:</b> EMC Manager 	
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**Note:** This test report is prepared for the customer shown above and for the equipment described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

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## GENERAL INFORMATION

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

The Smartx Network Technology(Shanghai) Co., Ltd.'s product, model number: Z-1302 (FCC ID: 2AGE5-ZEGA0003) or the "EUT" in this report was a Galaxy ZEGA, which was measured approximately: 150mm (L) x150mm (W) x9.8mm (H). The rated voltage: 3.7V From Rechargeable lithium battery.

EUT adapter information:

MODEL: A122-05020001U

INPUT: AC100-240V~50-60Hz 0.4A

OUTPUT: 5V~2000mA

*\*All measurement and test data in this report was gathered from production sample serial number: 20160929007*

*(Assigned by the BACL. The EUT supplied by the applicant was received on 2016-09-29.*

### Objective

This Type approval report is prepared on behalf of Smartx Network Technology(Shanghai) Co., Ltd. in accordance with Part 2- Subpart J, and Part 15-Subparts A, B and C of the Federal Communication Commission's rules.

The objective is to determine the compliance of the EUT with FCC rules, sec 15.203, 15.205, 15.207, 15.209 and 15.225.

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

FCC Part 15.247 DTS Submittal with FCC ID: 2AGE5-ZEGA0003.

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

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

Measurement uncertainty with radiated emission is 5.91 dB for 30MHz-1GHz.and 4.92 dB for above 1GHz, 1.95dB for conducted measurement.

### **Test Facility**

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the Chenghu Road, Kunshan Development Zone No.248, Kunshan, Jiangsu, China.

Test site at Bay Area Compliance Laboratories Corp. (Kunshan) 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 December 06, 2014. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 815570. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

## SYSTEM TEST CONFIGURATION

### Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

### EUT Exercise Software

No exercise software.

### Equipment Modifications

No modification on the EUT.

### Local Support Equipment

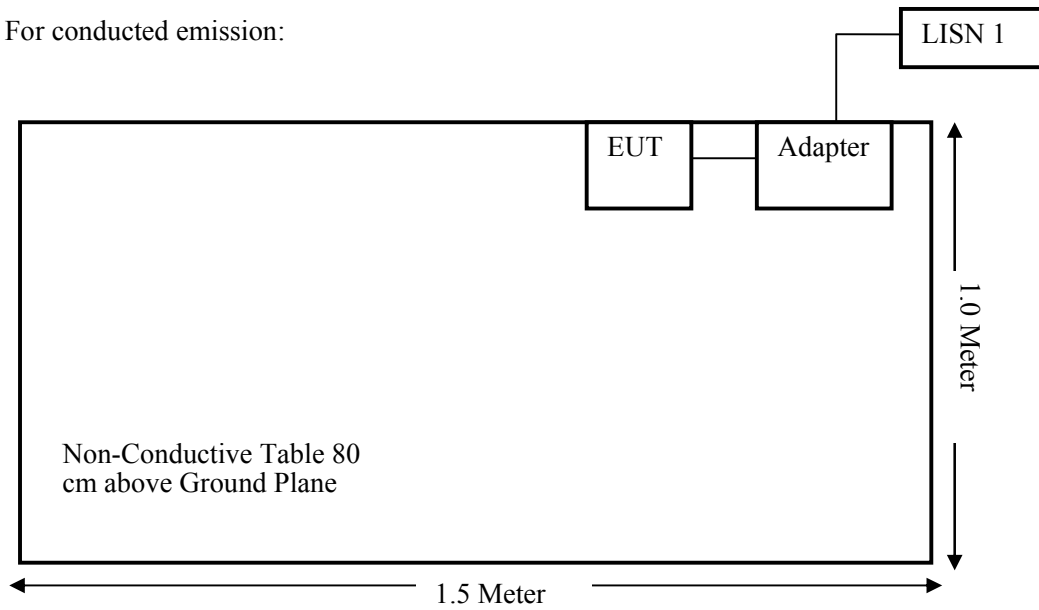
Manufacturer	Description	Model	Serial Number
/	/	/	/

### External I/O Cable

Cable Description	Length (m)	From/Port	To
/	/	/	/

## Block Diagram of Test Setup

For conducted emission:



**SUMMARY OF TEST RESULTS**

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207	AC Line Conducted Emission	Compliance
§15.225 §15.209 §15.205	Radiated Emission Test	Compliance
§15.225(e)	Frequency Stability	Compliance
§15.215(c)	20 dB Emission Bandwidth Testing	Compliance

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

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### **Applicable Standard**

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.

### **Antenna Connected Construction**

The EUT has an inductive loop antenna which was permanently attached; fulfill the requirement of this section. Please see EUT photo for details.

**Result:** Compliance.



## FCC §15.207 - AC LINE CONDUCTED EMISSIONS

### Applicable Standard

FCC§15.207.

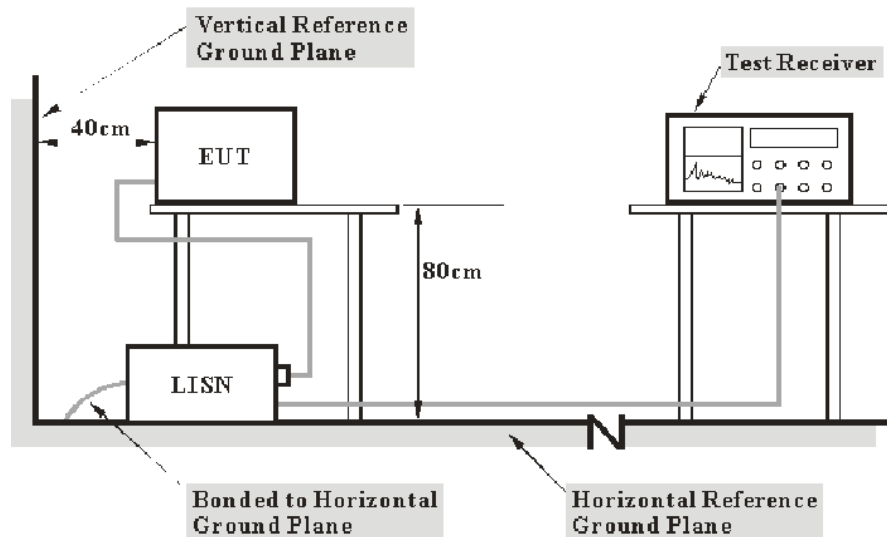
### Measurement Uncertainty

Input quantities to be considered for conducted disturbance measurements may be receiver reading, attenuation of the connection between LISN and receiver, LISN voltage division factor, LISN VDF frequency interpolation and receiver related input quantities, etc.

Based on CISPR 16-4-2, the expanded combined standard uncertainty of conducted disturbance test at Bay Area Compliance Laboratories Corp. (Kunshan) is shown as below. And the uncertainty will not be taken into consideration for the test data recorded in the report.

Port	Expanded Measurement uncertainty
AC Mains	3.26 dB (k=2, 95% level of confidence)
CAT 3	3.70 dB (k=2, 95% level of confidence)
CAT 5	3.86 dB (k=2, 95% level of confidence)
CAT 6	4.64 dB (k=2, 95% level of confidence)

### 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 C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

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 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.

## Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	934115/007	2015-11-12	2016-11-11
Rohde & Schwarz	LISN	ESH3-Z5	862770/011	2015-11-12	2016-11-11
Rohde & Schwarz	LISN	ESH3-Z5	892239/018	2016-06-23	2017-06-22
Rohde & Schwarz	Pulse limiter	ESH3-Z2	879940/0058	2016-06-19	2017-06-18
MICRO-COAX	Coaxial line	UFB-293B-1-0480-50X50	97F0173	2016-10-01	2017-10-01
Rohde & Schwarz	CE Test software	EMC 32	V 09.10.0	--	--

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

## Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Correction Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB 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 Part 15.207, the worst margin reading as below:

**19.84dB** at **0.450000MHz** in the **Neutral** conducted mode

Refer to CISPR16-4-2 and CISPR 16-4-1, the measured level complies with the limit if

$$L_m + U_{(Lm)} \leq L_{lim} + U_{cispr}$$

In BACL,  $U_{(Lm)}$  is less than  $U_{cispr}$ , if  $L_m$  is less than  $L_{lim}$ , it implies that the EUT complies with the limit.

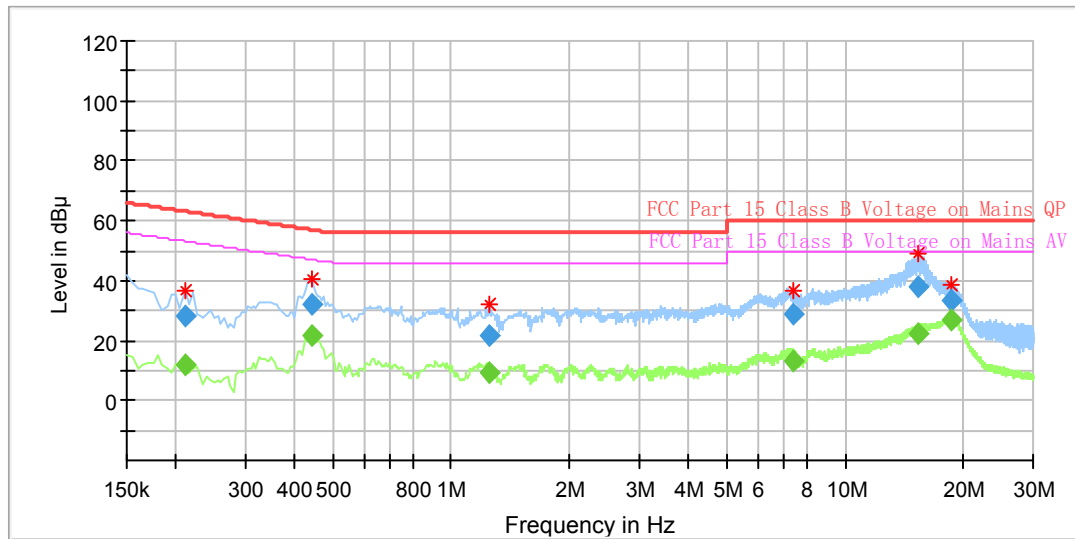
## Test Data

### Environmental Conditions

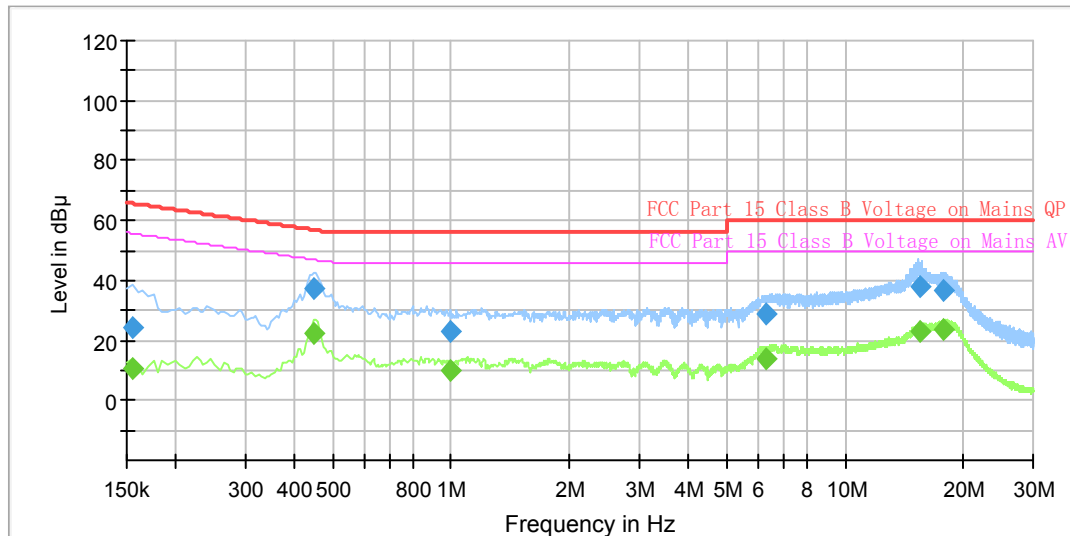
Temperature:	23 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

*The testing was performed by Ada Yu on 2016-10-31.*

*EUT operation mode: Charging and Transmitting.*

**AC 120V/60 Hz, Line**

Frequency (MHz)	QuasiPeak (dBμV)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.210000	---	12.01	9.000	L1	10.3	41.20	53.21	Compliance
0.210000	28.38	---	9.000	L1	10.3	34.83	63.21	Compliance
0.445000	---	21.74	9.000	L1	10.3	25.23	46.97	Compliance
0.445000	32.06	---	9.000	L1	10.3	24.91	56.97	Compliance
1.255000	---	9.43	9.000	L1	10.3	36.57	46.00	Compliance
1.255000	21.78	---	9.000	L1	10.3	34.22	56.00	Compliance
7.385000	---	13.11	9.000	L1	10.5	36.89	50.00	Compliance
7.385000	28.95	---	9.000	L1	10.5	31.05	60.00	Compliance
15.265000	---	22.52	9.000	L1	10.4	27.48	50.00	Compliance
15.265000	37.75	---	9.000	L1	10.4	22.25	60.00	Compliance
18.585000	---	26.56	9.000	L1	10.5	23.44	50.00	Compliance
18.585000	33.36	---	9.000	L1	10.5	26.64	60.00	Compliance

**AC 120V/60 Hz, Neutral**

Frequency (MHz)	QuasiPeak (dBμV)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.155000	---	10.30	9.000	N	10.3	45.43	55.73	Compliance
0.155000	23.97	---	9.000	N	10.3	41.76	65.73	Compliance
0.450000	---	22.16	9.000	N	10.3	24.72	46.88	Compliance
0.450000	37.04	---	9.000	N	10.3	19.84	56.88	Compliance
0.995000	---	9.86	9.000	N	10.3	36.14	46.00	Compliance
0.995000	23.27	---	9.000	N	10.3	32.73	56.00	Compliance
6.275000	---	14.01	9.000	N	10.6	35.99	50.00	Compliance
6.275000	28.64	---	9.000	N	10.6	31.36	60.00	Compliance
15.510000	---	23.02	9.000	N	10.5	26.98	50.00	Compliance
15.510000	37.75	---	9.000	N	10.5	22.25	60.00	Compliance
17.700000	---	23.59	9.000	N	10.5	26.41	50.00	Compliance
17.700000	36.38	---	9.000	N	10.5	23.62	60.00	Compliance

**Note:**

- 1) Corr.=LISN VDF (Voltage Division Factor) + Cable Loss
- 2) Corrected Amplitude = Reading + Corr.
- 3) Margin = Limit –Corrected Amplitude

## **FCC§15.225, §15.205 & §15.209 - RADIATED EMISSIONS TEST**

### **Applicable Standard**

As per FCC Part 15.225

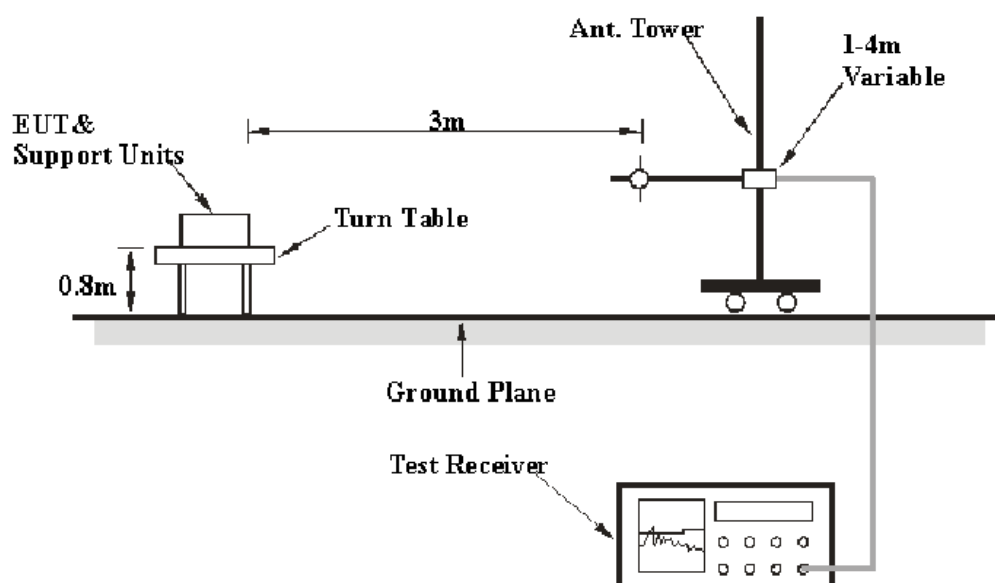
- (a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

### **Measurement Uncertainty**

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of radiation emissions at Bay Area Compliance Laboratories Corp. (Kunshan) is 5.91 dB for 30MHz-1GHz. and 4.92 dB for above 1GHz. And it will not be taken into consideration for the test data recorded in the report

### **EUT Setup**



The radiated emission tests were performed in the 3-meter chamber a test site, using the setup accordance with the ANSI C63.10. The specification used was the FCC Part Subpart C 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

According to FCC Rules, 47 CFR 15.33, the EUT emissions were investigated up to 1000 MHz.

During the radiated emission test, the EMI test Receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
9 kHz – 150 kHz	300 Hz	1 kHz	/	QP
150 kHz –30 MHz	10 kHz	30 kHz	/	QP
30 MHz – 1000 MHz	100 kHz	300 kHz	/	QP

### 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:

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

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Corrected Factor}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the 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
Sonoma Instrument	Amplifier	330	171377	2016-09-16	2017-09-16
ETS	Passive Loop Antenna	6512	001769	2016-01-09	2017-01-08
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2015-11-12	2016-11-11
Sunol Sciences	Broadband Antenna	JB3	A090314-2	2015-11-07	2016-11-06
Mini	Pre-amplifier	ZVA-183-S+	857001418	2016-09-16	2017-09-16
champrotek	Chamber	Chamber A	1#	2016-09-16	2017-09-16
R&S	Auto test Software	EMC32	V 09.10.0	-	-
BACL	RF cable	KS-LAB-012	KS-LAB-010	2015-12-16	2016-12-15

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

## Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.225, the worst margin reading as below:

**3.07dB at 569.56 MHz**

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_m + U_{(Lm)} \leq L_{lim} + U_{cispr}$$

In BACL,  $U_{(Lm)}$  is less than  $U_{cispr}$ , if  $L_m$  is less than  $L_{lim}$ , it implies that the EUT complies with the limit.

## Test Data

### Environmental Conditions

Temperature:	23 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

*The testing was performed by Ada Yu on 2016-10-17.*

*Test mode: Charging and Transmitting.*



## 1) Spurious Emissions (9 kHz~30 MHz):

Indicated		Detector PK/QP/Ave.	Correction Factor			Corrected Amplitude (dB $\mu$ V/m) @3m	FCC Part 15.225\15.209	
Frequency (MHz)	Maximum Reading (dBuV)		Ant. Factor (dB)	Cable Loss (dB)	Pre- Amp. Gain (dB)		Limit (dB $\mu$ V/m) @3m	Margin (dB)
13.342	35.57	QP	35.2	0.26	25.23	46.54	80.5	33.96
13.473	37.63	QP	35.2	0.26	25.23	48.60	90.5	41.90
13.561	54.87	QP	35.2	0.26	25.23	65.84	124	58.16
13.624	41.27	QP	35.2	0.26	25.23	51.50	90.5	39.00
13.869	36.17	QP	35.2	0.26	25.23	46.40	80.5	34.10

## 2) Spurious Emissions (30 MHz ~1 GHz):

Frequency (MHz)	Corrected Amplitude (dB $\mu$ V/m)	Detector PK/QP/Ave.	Antenna Height (m)	Antenna Polarity (H/V)	Turntable Position (deg)	Correction Factor (dB)	Limit (dB $\mu$ V/m)	Margin (dB)
37.1	31.12	QP	1.0	V	15	-8.8	40.0	17.68
80.3	42.41	QP	1.2	V	159	-17.0	40.0	14.59
86.6	47.63	QP	1.5	V	106	-17.0	43.5	9.37
138.2	32.84	QP	1.0	H	159	-12.2	46.0	22.86
217.0	37.45	QP	1.1	H	144	-12.4	46.0	20.95
461.0	37.26	QP	1.0	V	182	-6.7	46.0	15.44

**FCC §15.225(e) - FREQUENCY STABILITY****Applicable Standard**

The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.01\%$  of the operating frequency over a temperature variation of  $-20$  degrees to  $+50$  degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

**Test Procedure**

Frequency Stability vs. Temperature: The equipment under test was connected to PC, then to an external AC power supply and inductive antenna was connected to a Spectrum Analyzer. The EUT was placed inside the temperature chamber.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the Spectrum Analyzer.

Frequency Stability vs. Voltage: An external variable AC power supply Source. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the end point. The output frequency was recorded for each voltage.

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2015-11-12	2016-11-11
BACL	Temp & Humi Test Chamber	BTH-150	30023	/	/
MCH	REGULATED DC POWER SUPPLY	MCH-303D-II	201	2015-12-3	2016-12-2

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

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

Temperature:	23 °C
Relative Humidity:	53 %
ATM Pressure:	101.0 kPa

The testing was performed by Ada Yu on 2016-10-17.

Test Mode: Transmitting.

Test Result: Pass

$F_0=13.56$ MHz				
Power Supply	Temperature (°C)	Measured Frequency (MHz)	Frequency Error	Part 15.225 Limit
3.7V	-20	13.5610347	0.0076%	±0.01%
	0	13.5610070	0.0074%	±0.01%
	20	13.5610159	0.0075%	±0.01%
	50	13.5610160	0.0075%	±0.01%
3.15V	20	13.5611462	0.0085%	±0.01%
4.26V	20	13.5610875	0.0080%	±0.01%

**FCC §15.215(c) - 20 dB EMISSION BANDWIDTH TESTING****Requirement**

Per 15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS	Passive Loop Antenna	6512	001769	2016-01-09	2017-01-08
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2015-11-12	2016-11-11

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

**Test Procedure**

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.

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

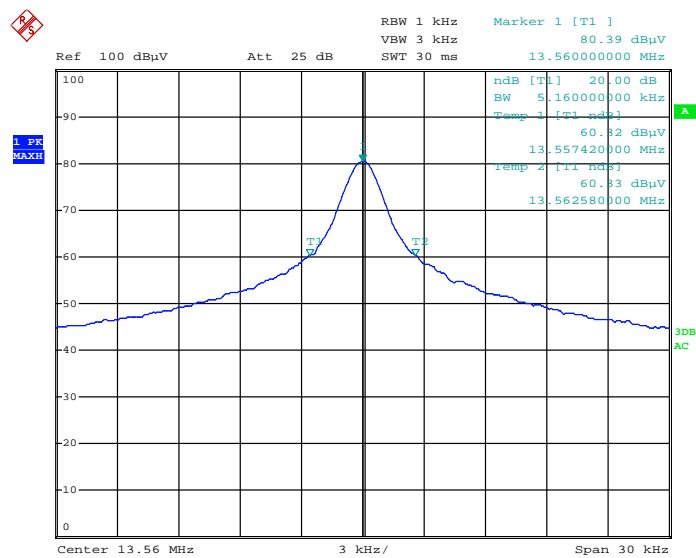
Temperature:	23 °C
Relative Humidity:	53 %
ATM Pressure:	101.0 kPa

*The testing was performed by Ada Yu on 2016-10-17.*

*Test Mode: Transmitting*

*Test Result: Pass*

20 dB Emission Bandwidth



Date: 17.OCT.2016 17:42:34

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