



FCC PART 15.225

TEST REPORT

For

Wuhan Aieggy Technology Co.,Ltd

OVU Makerstar(Wuhan Innocenter), Building No.2, No. 27 Tanhu Road, Jiangxia District, Wuhan City, Hubei Province, China

FCC ID: 2AST2-AIEGGYV2

Report Type:		Product Type:
Original Report		Aieggy Coding Robot
Test Engineer:	Hope Zhang	Hope 2hang
Report Number:	RSHD19032200	01-00C
Report Date:	2019-04-14	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant	Wuhan Aieggy Technology Co.,Ltd
Tested Model	Aieggy-V2
Product Type	Aieggy Coding Robot
Dimension	136mm(L)*120mm(W)*125mm(H)
Power Supply	DC 3.7V from internal battery

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Objective

This Type approval report is prepared on behalf of Wuhan Aieggy Technology Co.,Ltd in accordance with Part 2- Subpart J, and Part 15-Subparts A 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 DSS and Part 15.247 DTS submittals with FCC ID: 2AST2-AIEGGYV2.

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.

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^{*}All measurement and test data in this report was gathered from production sample serial number: 20190322001. (Assigned by the BACL. The EUT supplied by the applicant was received on 2019-03-22)

Measurement Uncertainty

	Item	Uncertainty		
AC Power Lines Conducted Emissions		3.19 dB		
RF conducted test with spectrum		0.9dB		
Dadieted emission	9kHz~30MHz	6.07dB		
Radiated emission	30MHz~1GHz	6.11dB		
Оссир	pied Bandwidth	0.5kHz		
Т	emperature	1.0℃		
	Humidity	6%		

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Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

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

Bay Area Compliance Laboratories Corp. (Kunshan) Lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4323.01), the FCC designation No. CN1185 under the FCC KDB 974614 D01 and CAB identifier CN0004 under the ISED requirement. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

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SYSTEM TEST CONFIGURATION

Justification

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

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EUT Exercise Software

The EUT is tested in the engineering mode.

Equipment Modifications

No modification on the EUT.

Support Equipment List and Details

Manufacturer Description		Model	Serial Number	
SHEN ZHEN TIANYIN ELECTRONICS CO.,LTD.	Adapter	TPA-46050200UV	/	

External I/O Cable

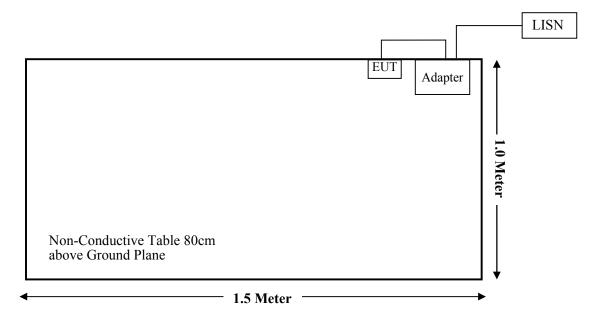
Cable Description	Length (m)	From Port	To	
USB Cable	0.80	EUT	Adapter	

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Block Diagram of Test Setup

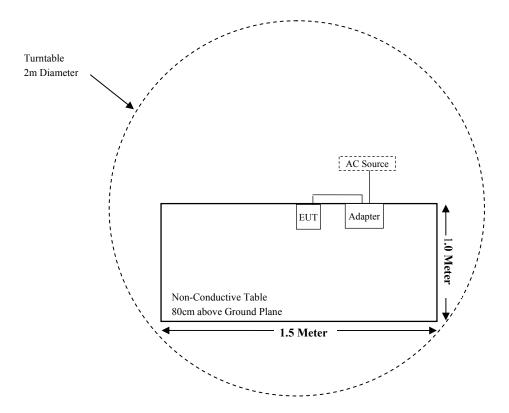
For Conducted Emissions:



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For Radiated Emissions(Below & Above 30MHz):



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SUMMARY OF TEST RESULTS

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

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TEST EQUIPMENT LIST

Manufacturer	rer Description Model Serial Number		Calibration Date	Calibration Due Date				
Radiated Emission Test (Chamber 1#)								
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2018-11-30	2019-11-29			
Sunol Sciences	Broadband Antenna	JB3	A040914-2	2016-01-09	2022-01-08			
Sonoma Instrunent	Pre-amplifier	310N	171205	2018-08-15	2019-08-14			
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/			
MICRO-COAX	Coaxial Cable	Cable-8	008	2018-08-15	2019-08-14			
MICRO-COAX	Coaxial Cable	Cable-9	009	2018-08-15	2019-08-14			
MICRO-COAX	Coaxial Cable	Cable-10	010	2018-08-15	2019-08-14			
	Cond	ucted Emission Te	est					
Rohde & Schwarz	EMI Test Receiver	ESCS30	834115/007	2018-11-30	2019-11-29			
Rohde & Schwarz	LISN	ENV216	3560655016	2018-11-30	2019-11-29			
BACL	Auto test Software	BACL-EMC	CE001	/	/			
Narda	Attenuator/6dB	10690812-2	26850-6	2019-01-10	2020-01-09			
MICRO-COAX	Coaxial Cable	Cable-15	015	2018-08-15	2019-08-14			

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^{*} 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).

FCC§15.203 - ANTENNA REQUIREMENT

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.

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Antenna Connected Construction

The EUT has a PCB antenna and antenna gain is 0 dBi, which was permanently attached, fulfill the requirement of this section, please refer to the EUT photos.

Result: Compliant.

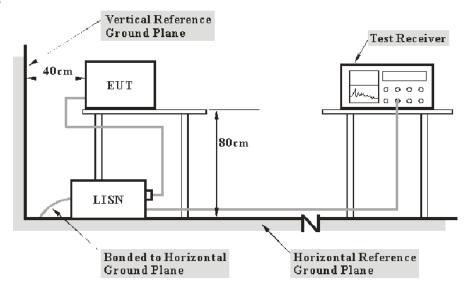
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FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207(a)

EUT Setup



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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.

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.

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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:

Corrected Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

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The "Margin" column of the following data tables indicates the degree of Compliant 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:

Margin (dB) = Limit (dB μ V) - Corrected Amplitude (dB μ V)

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data

Environmental Conditions

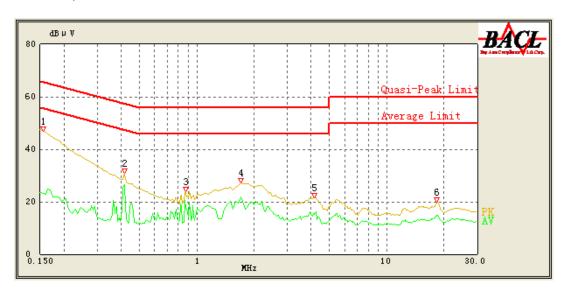
Temperature:	23.2 ℃		
Relative Humidity:	50 %		
ATM Pressure:	101.3 kPa		

The testing was performed by Hope Zhang on 2019-03-30.

EUT operation mode: Transmitting

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AC 120V/60 Hz, Line

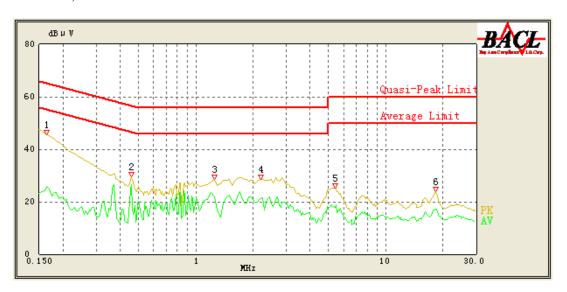


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Frequency (MHz)	Corrected Amplitude (dBµV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Comment
0.155	47.00	QP	9.000	L1	16.06	65.73	18.73	Compliant
0.155	23.02	AV	9.000	L1	16.06	55.73	32.71	Compliant
0.415	30.94	QP	9.000	L1	16.06	57.55	26.61	Compliant
0.415	26.42	AV	9.000	L1	16.06	47.55	21.13	Compliant
0.875	23.94	QP	9.000	L1	15.91	56.00	32.06	Compliant
0.875	17.76	AV	9.000	L1	15.91	46.00	28.24	Compliant
1.700	27.11	QP	9.000	L1	15.86	56.00	28.89	Compliant
1.700	21.72	AV	9.000	L1	15.86	46.00	24.28	Compliant
4.150	21.61	QP	9.000	L1	15.85	56.00	34.39	Compliant
4.150	15.26	AV	9.000	L1	15.85	46.00	30.74	Compliant
18.400	19.85	QP	9.000	L1	16.37	60.00	40.15	Compliant
18.400	14.95	AV	9.000	L1	16.37	50.00	35.05	Compliant

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AC 120V/60 Hz, Neutral



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Frequency (MHz)	Corrected Amplitude (dBµV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Comment
0.165	45.61	QP	9.000	N	16.06	65.21	19.60	Compliant
0.165	25.85	AV	9.000	N	16.06	55.21	29.36	Compliant
0.460	29.51	QP	9.000	N	16.10	56.69	27.18	Compliant
0.460	26.47	AV	9.000	N	16.10	46.69	20.22	Compliant
1.250	28.46	QP	9.000	N	15.93	56.00	27.54	Compliant
1.250	21.97	AV	9.000	N	15.93	46.00	24.03	Compliant
2.200	28.52	QP	9.000	N	15.91	56.00	27.48	Compliant
2.200	21.06	AV	9.000	N	15.91	46.00	24.94	Compliant
5.400	25.33	QP	9.000	N	15.88	60.00	34.67	Compliant
5.400	17.80	AV	9.000	N	15.88	50.00	32.20	Compliant
18.350	23.69	QP	9.000	N	16.11	60.00	36.31	Compliant
18.350	17.22	AV	9.000	N	16.11	50.00	32.78	Compliant

Notes

1) Corrected Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation

2) Margin = Limit –Corrected Amplitude

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

Applicable Standard

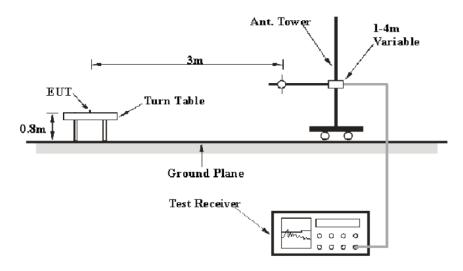
As per FCC Part 15.225

(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.

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- (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.

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.

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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	200 Hz	1 kHz	/	QP
150 kHz –30 MHz	9 kHz	30 kHz	/	QP
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP

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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:

Corrected Factor = Antenna Factor + Cable Loss- Amplifier Gain Corrected Amplitude = Meter Reading + Corrected Factor

The "Margin" column of the following data tables indicates the degree of Compliant 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:

Margin = Limit – Corrected Amplitude

Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.209, 15.205, 15.225.

Test Data

Environmental Conditions

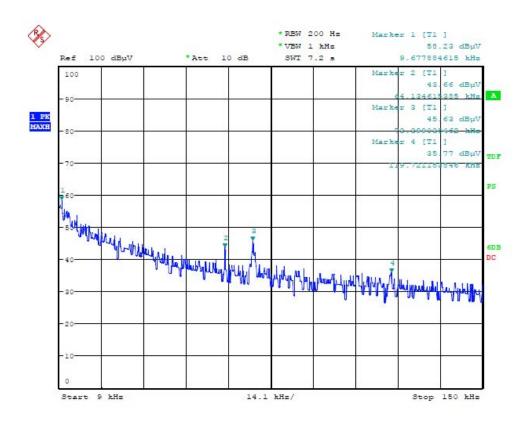
Temperature:	23.2-24.2 ℃
Relative Humidity:	48-50 %
ATM Pressure:	100.2-101.3 kPa

The testing was performed by Hope Zhang from 2019-04-09 to 2019-04-11.

Test mode: Transmitting

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1) Spurious Emissions (9 kHz~150kHz):



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Date: 11.APR.2019 10:29:36

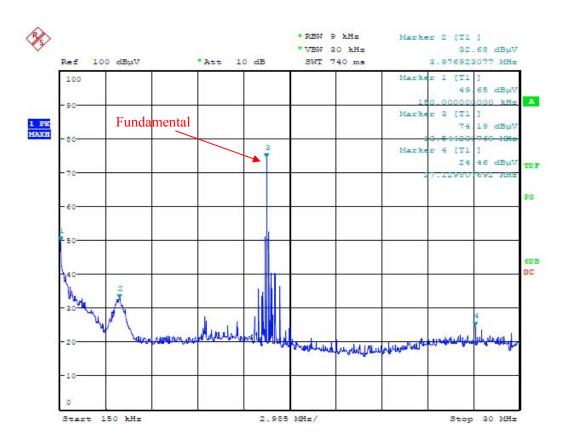
Corrected		Detector	Commented Fraction	FCC Part 15.225\15.209	
Frequency (MHz)	Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBµV/m) @3m	Margin (dB)
0.0097	58.23	PK	85.24	127.87	69.64
0.0641	43.66	PK	69.85	111.47	67.81
0.0734	45.63	PK	68.95	110.29	64.66
0.0915	38.94	PK	67.22	108.38	69.44
0.1197	35.77	PK	65.30	106.04	70.27
0.1372	33.29	PK	64.32	104.86	71.57

Note: The EMI Test Receiver only can mark 4 points, and there are 2 points recorded by manual.

Note: The average emissions which fall into frequencies 9-90 kHz, 110-490 kHz was not recorded, because the peak emissions are below the average limit.

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2) Spurious Emissions (150 kHz~30MHz):



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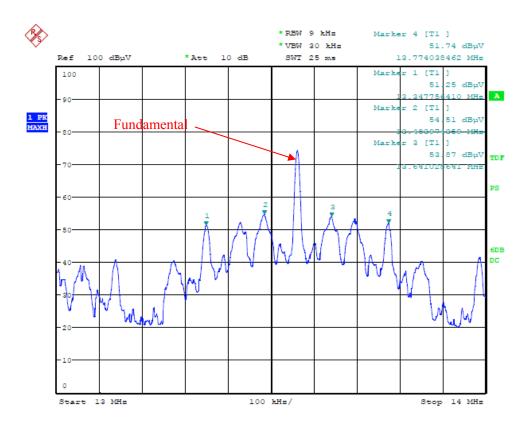
Date: 11.APR.2019 10:27:05

	Corrected	D		FCC Part 15.225\15.209	
Frequency (MHz)	Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBµV/m) @3m	Margin (dB)
0.15	49.65	PK	63.60	104.08	54.43
3.98	32.68	PK	38.22	69.54	36.86
13.56	74.19	PK	35.32	124.00	49.81
15.12	23.15	PK	35.14	69.54	46.39
20.54	21.36	PK	34.97	69.54	48.18
27.13	24.46	PK	34.31	69.54	45.08

Note: The EMI Test Receiver only can mark 4 points, and there are 2 points recorded by manual. Note: The average emissions which fall into frequencies 9-90 kHz, 110-490 kHz was not recorded, because the peak emissions are below the average limit.

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3) Spurious Emissions (13MHz~14MHz):



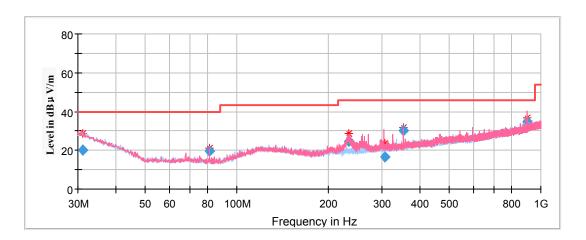
Report No.: RSHD190322001-00C

Date: 11.APR.2019 10:32:31

T.	Corrected	D ()	G A I I I I	FCC Part 15.225\15.209	
Frequency (MHz)	Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBµV/m) @3m	Margin (dB)
13.35	51.25	PK	35.33	80.50	29.25
13.48	54.51	PK	35.32	90.50	35.99
13.64	53.87	PK	35.31	90.50	36.63
13.77	51.74	PK	35.30	80.50	28.76

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3) Spurious Emissions (30 MHz ~1 GHz):



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Frequency	Corrected Amplitude	Rx A	ntenna	Turntable	Corrected Factor	Limit	Margin
(MHz)	MaxPeak (dBμV/m)	Height (cm)	Polar (H/V)	Degree	(dB/m)	(dBµV/m)	(dB)
31.071752	19.93	101.0	V	295.0	-4.7	40.00	20.07
81.369750	19.59	101.0	V	207.0	-17.7	40.00	20.41
232.803850	24.62	199.0	V	248.0	-12.2	46.00	21.38
305.834650	16.42	199.0	V	136.0	-10.4	46.00	29.58
352.579950	30.32	101.0	V	191.0	-9.3	46.00	15.68
901.575300	34.50	199.0	V	19.0	0.1	46.00	11.50

Note:

Corrected Amplitude = Corrected Factor + Reading Corrected Factor = Antenna factor (Rx) + cable loss – amplifier factor

Margin = Limit - Corrected Amplitude

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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.

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Test Procedure

- a) Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT. If possible, a dummy load shall be connected to the EUT because an antenna near the metallic walls of an environmental test chamber could affect the output frequency of the EUT. If the EUT is equipped with a permanently attached, adjustable-length antenna, then the EUT shall be placed in the center of the chamber with the antenna adjusted to the shortest length possible. Turn ON the EUT and tune it to one of the number of frequencies shown in 5.6.
- b) Couple the unlicensed wireless device output to the measuring instrument by connecting an antenna to the measuring instrument with a suitable length of coaxial cable and placing the measuring antenna near the EUT (e.g., 15 cm away), or by connecting a dummy load to the measuring instrument, through an attenuator if necessary.

 NOTE—An instrument that has an adequate level of accuracy as specified by the procuring or regulatory agency is the recommended measuring instrument.
- c) Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).
- d) Turn the EUT OFF and place it inside the environmental temperature chamber. For devices that have oscillator heaters, energize only the heater circuit.
- e) Set the temperature control on the chamber to the highest specified in the regulatory requirements for the type of device and allow the oscillator heater and the chamber temperature to stabilize.
- f) While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.
- g) Measure the frequency at each of frequencies specified in 5.6.
- h) Switch OFF the EUT but do not switch OFF the oscillator heater.
- i) Lower the chamber temperature by not more that $10\,^{\circ}\text{C}$, and allow the temperature inside the chamber to stabilize.
- j) Repeat step f) through step i) down to the lowest specified temperature.

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Test Data

Environmental Conditions

Temperature:	23.2 ℃
Relative Humidity:	50 %
ATM Pressure:	101.3 kPa

The testing was performed by Hope Zhang on 2019-04-15.

Test Mode: Transmitting.

Test Result: Pass

		$F_0 = 13.56 MHz$		
Power Supply(V _{DC})	Temperature (°C)	Measured Frequency (MHz)	Frequency Error (%)	Part 15.225 Limit
	-20	13.56103	0.00760	±0.01%
	-10	13.55871	-0.00951	±0.01%
	0	13.55889	-0.00819	±0.01%
2.7	+10	13.56018	0.00133	±0.01%
3.7	+20	13.55946	-0.00398	±0.01%
	+30	13.56121	0.00892	±0.01%
	+40	13.55879	-0.00892	±0.01%
	+50	13.56133	0.00981	±0.01%
3.4	+20	13.55934	-0.00487	±0.01%
4.2	+20	13.56074	0.00546	±0.01%

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§15.215(c) - 20dB 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.

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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:	23.2 ℃
Relative Humidity:	50 %
ATM Pressure:	101.3 kPa

The testing was performed by Hope Zhang on 2019-04-11.

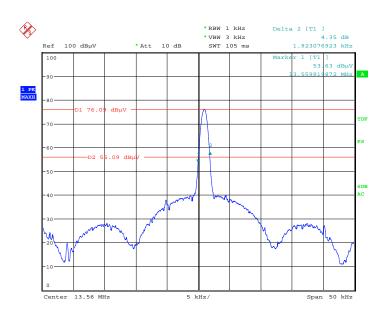
Test Mode: Transmitting

Test Result: Pass

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20 dB Emission Bandwidth



Date: 11.APR.2019 10:37:35

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

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