

Compliance Certification Services (KunShan) Inc. Date of Issue :August 23, 2016

FCC ID:2AFIB-DCM116

Report No: C160630R01-RPB1

FCC 47 CFR PART 15 SUBPART C **TEST REPORT**

For

Product Name: Xiaoyi Mirror-less Camera

Brand Name: YI

Model No.: YI-M1 Series Model.: N/A FCC ID: 2AFIB-DCM116 **Test Report Number:** C160630R01-RPB1

Issued for

Shanghai Xiaoyi Technology Co., Ltd.

6F, Building E, No. 2889, Jinke Road, Shanghai, China

Issued by

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LESRF

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	August 23, 2016	C160630R01-RPB1	ALL	N/A



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1 TEST RESULT CERTIFICATION

Product Name:	Xiaoyi Mirror-less Camera
Trade Name:	YI
Model Name:	YI-M1
Series Model:	N/A
Applicant Discrepancy:	Initial
Device Category:	Mobile unit
Date of Test:	August 2, 2016 ~ August 10, 2016
Applicant:	Shanghai Xiaoyi Technology Co., Ltd. 6F,Building E,No.2889,Jinke Road,Shanghai,China
Manufacturer:	Shanghai Xiaoyi Technology Co., Ltd. 6F,Building E,No.2889,Jinke Road,Shanghai,China
Application Type:	Certification

APPLICABLE STANDARDS				
STANDARD TEST RESULT				
FCC 47 CFR Part 15 Subpart C	No non-compliance noted			

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247.

The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:

Jeff fang

Jeff.Fang RF Manager Compliance Certification Services Inc.

Tested by:

Lily.Wang Test Engineer Compliance Certification Services Inc.



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2 EUT DESCRIPTION

Product Name:	Xiaoyi Mirror-less Camera
Trade Name:	YI
Model Name:	YI-M1
Series Model:	N/A
Model Discrepancy:	N/A
Power Adapter:	For SUN-0500300 Model:A8-501000 INPUT: 100-240V~50/60Hz 0.2A Max OUTPUT : 5 V 1.0A
Frequency Range :	Bluetooth:2402 ~ 2480 MHz
Transmit Power :	Bluetooth LE4.0: 5.49dBm(3.540mW)
Channel Spacing	Bluetooth LE4.0: 2MHz
Modulation type:	Bluetooth LE4.0: GFSK
Transmit Data Rate :	Bluetooth LE4.0: 1 Mbps
Number of Channels :	Bluetooth LE4.0: 40 Channels
Antenna Specification:	PCB Antenna Gain: -6.4 dBi

Remark:

1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.

2.This submittal(s) (test report) is intended for *FCC ID: 2AFIB-DCM116* filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

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3 TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.207, 15.209 and 15.247.

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EXERCISEEUT

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The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.10 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

Under 1GHz

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.10.

Above 1GHz

The EUT is placed on a turn table, which is 1.5 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.10.

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3.4 TEST Mode

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel	Antenna
6dB Bandwidth	GFSK	1 Mbps	0/19/39	1
Peak Output Power	GFSK	1 Mbps	0/19/39	1
Power Spectral Density	GFSK	1 Mbps	0/19/39	1
Conducted Band Edges and Spurious Emission	GFSK	1 Mbps	0/19/39	1
Radiated Band Edges and Spurious Emission	GFSK	1 Mbps	0/19/39	1
AC Conducted Emission	CTX	1 Mbps	-	-

Remark: For radiated test cases below 1 GHz, the worst mode data rate channel 39 was reported only, because this data rate has the highest RF output power at preliminary tests.

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3.5 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.0900 - 0.1100	16.420 - 16.423	399.9 - 410.0	4.50 - 5.15
0.4950 - 0.505 ⁽¹⁾	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960.0 - 1240	7.25 - 7.75
4.1250 - 4.1280	25.50 - 25.67	1300 - 1427	8.025 - 8.500
4.17725 - 4.17775	37.50 - 38.25	1435.0 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73.0 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.2150 - 6.2180	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108.00 - 121.94	1718.8 - 1722.2	13.25 - 13.40
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.50
8.2910 - 8.2940	149.90 - 150.05	2310 - 2390	15.35 - 16.20
8.3620 - 8.3660	156.52475 - 156.52525	2483.5 - 2500.0	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475 12.2900 - 12.2930 12.51975 - 12.52025 12.57675 - 12.57725 13.3600 - 13.4100	162.0125 - 167.1700 167.72 - 173.20 240 - 285 322.0 - 335.4	3260 - 3267 3332 - 3339 3345 - 3358 3600 - 4400	23.6 - 24.0 31.2 - 31.8 36.43 - 36.5 ⁽²⁾

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

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(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.



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4 INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards. facilities and accreditations

5 FACILITIES AND ACCREDITATIONS

5.1 FACILTIES

All measurement facilities used to collect the measurement data are located at CCS China Kunshan Lab at 10#Weiye Rd, Innovation Park Eco. & Tec. Development Zone Kunshan city JiangSu, (215300), CHINA.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 LABORATORY ACCREDITATIONS AND LISTING

The test facilities used to perform radiated and conducted emissions tests are accredited by American Association for Laboratory Accreditation Program for the specific scope accreditation under Lab Code: 200581-0 to perform Electromagnetic Interference tests according to FCC Part 15 or 18 requirements. In addition, the test facilities are listed with Federal Communication Commission, Laboratory Division, 424105 for 10m chamber, 238958 for 3m chamber .

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5.4 TABLE OF ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

Taiwan	TAF
USA	A2LA

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada	Industry Canada
Japan	VCCI
Taiwan	BSMI
USA	FCC

Copies of granted accreditation certificates are available for downloading from our web site, <u>http:///www.ccsrf.com</u>

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5.5 LIST OF MEASURING EQUIPMENT

Conducted Emissions Test Site						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Data	Calibration Due	
Spectrum Analyzer	Agilent	E4446A	MY44020154	2015-9-11	2016-9-10	
OSCILLOSCOPE	Agilent	DS06104A	MY44002585	2016-3-2	2017-3-1	
Power meter	Anritsu	ML2495A	1445010	2016-5-16	2017-5-15	
Power sensor	Anritsu	MA2411B	1339220	2016-5-16	2017-5-15	
Power SPLITTER	Mini-Circuits	ZN2PD-9G	SF078500430	N.C.R	N.C.R	
DC Power Supply	AGILENT	E3632A	MY50340053	N.C.R	N.C.R	
Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	2016-5-16	2017-5-15	
	Test Software			EZ-EMC		

977 Chamber						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Data	Calibration Due	
Spectrum Analyzer	Agilent	E4446A	MY44020154	2015-9-11	2016-9-10	
EMI Test Receiver	R&S	ESCI	101378	2016-1-6	2017-1-5	
Pre-Amplfier	MINI	ZFL-1000VH2	070306	2016-1-13	2017-1-12	
Pre-Amplfier	Miteq	JS41-00101800- 32-10P	1675713	2015-8-10	2016-8-9	
Bilog Antenna	Sunol	JB1	A062604	2016-5-29	2017-5-28	
Bilog Antenna	Sunol	JB1	A110204-1	2016-5-29	2017-5-28	
Loop Antenna	SCHWARZBECK	HXYZ9170	9170-108	2016-4-7	2017-4-6	
Horn-antenna	SCHWARZBECK	9120D	266	2016-3-6	2017-3-5	
Horn-antenna	SCHWARZBECK	9120D	267	2015-11-10	2016-11-9	
Turn Table	СТ	CT123	4165	N.C.R	N.C.R	
Antenna Tower	СТ	CTERG23	3256	N.C.R	N.C.R	
Controller	СТ	CT100	95637	N.C.R	N.C.R	
	Test Software			EZ-EMC		

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Conducted Emission						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Data	Calibration Due	
EMI TEST RECEIVER	R&S	ESCI	100781	2016-3-2	2017-3-1	
LISN	SCHWARZBEC K	NNLK 8129	8129-143	2015-11-2	2016-11-1	
LISN (EUT)	FCC	FCC-LISN-50/2 50-50-2-02	05012	2015-9-16	2016-9-15	
Pulse LIMITER	R&S	ESH3-Z2	100524	2016-1-6	2017-1-5	
Test Software				EZ-EMC		

Remark: Each piece of equipment is scheduled for calibration once a year.

5.6 SETUP CONFIGURATION

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

5.7 SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	FCC ID
1.	Monitor	U2410f	KSLCD-03	N/A	N/A

Remark:

- 1.All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2.Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



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6 FCC PART 15.247 REQUIREMENTS

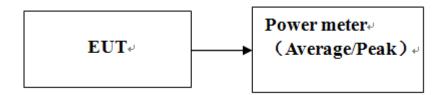
6.1 PEAK POWER

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Limit of peak output power

The maximum peak output power of the intentional radiator shall not exceed the following: For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

Test Configuration



Remark: Each piece of equipment is scheduled for calibration once a year.

Test Procedure

- 1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r05.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.

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Test Results

No non-compliance noted

Test RESULTS

BLE4.0 GFSK Modulation 1Mbps mode

Test mode:	Test mode:Bluetooth LE4.0		23 °C
Test By:	Lily.Wang	Test Date:	2016-8-2

Channel	Frequency Transmit Data Output Power (MHz) Rate (dBm)		Limit (dBm)	Result	
00	2402	1Mbps	5.11		PASS
19	2440	1Mbps	5.36	30	PASS
39	2480	1Mbps	5.49		PASS

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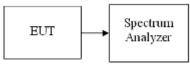
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6.2 PEAK POWER SPECTRAL DENSITY

Limit

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

Test Configuration



Test Procedure

- 1. The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- 6. Measure and record the results in the test report.
- 7. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.



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Test Results of power Spectral Density

Test mode:Bluetooth LE4.0		Temperature:	23 °C
Test By:	Lily.Wang	Test Date:	2016-8-2

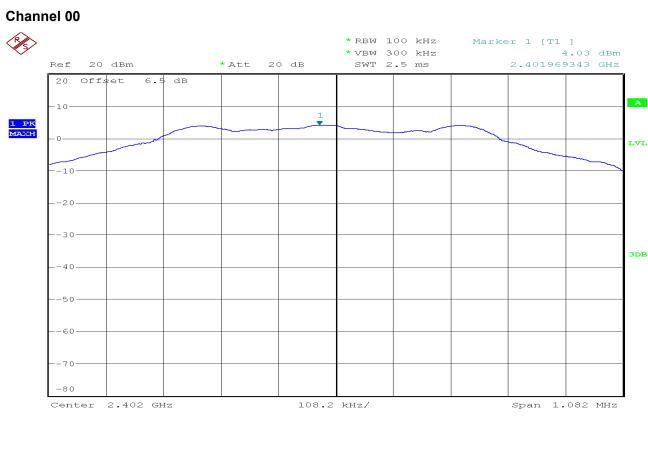
Channel	Frequency	y Power Density			Booult
Channel	(MHz)	PSD/100kHz (dBm)	PSD/3kHz (dBm)	(dBm)	Result
00	2402	4.03	-9.28		PASS
19	2440	4.11	-9.11	8	PASS
39	2480	4.31	-9.00		PASS

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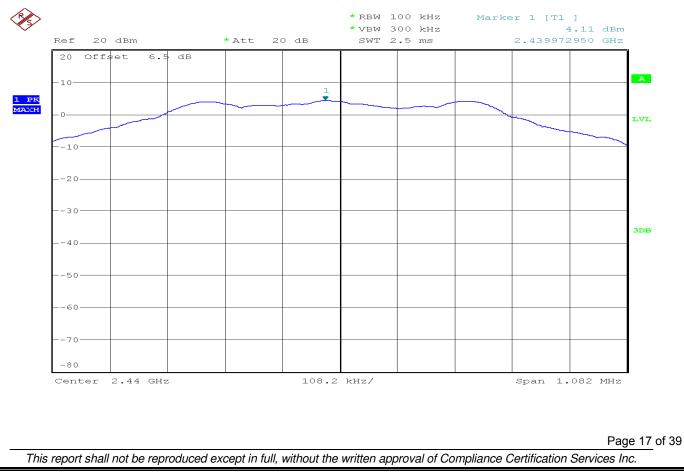


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Test Plot of power Spectral Density(100kHz)

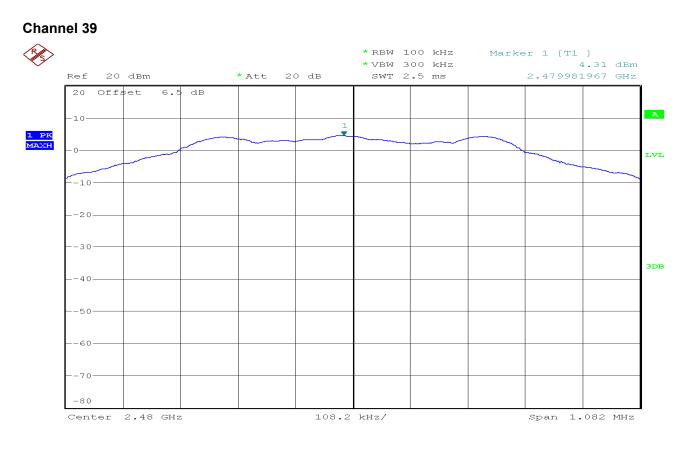


Channel 19



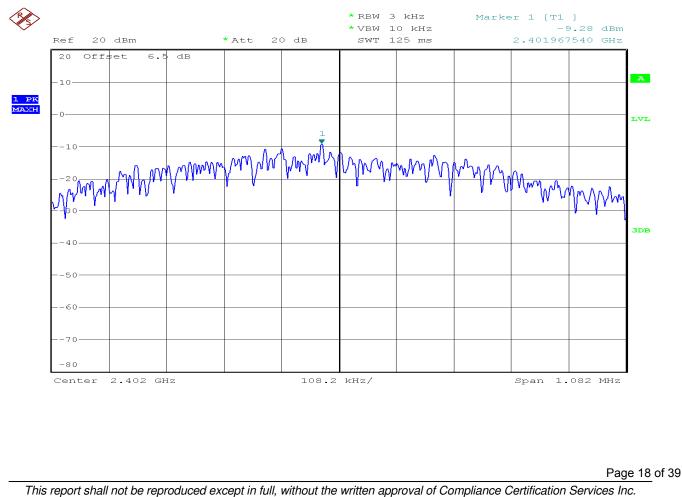


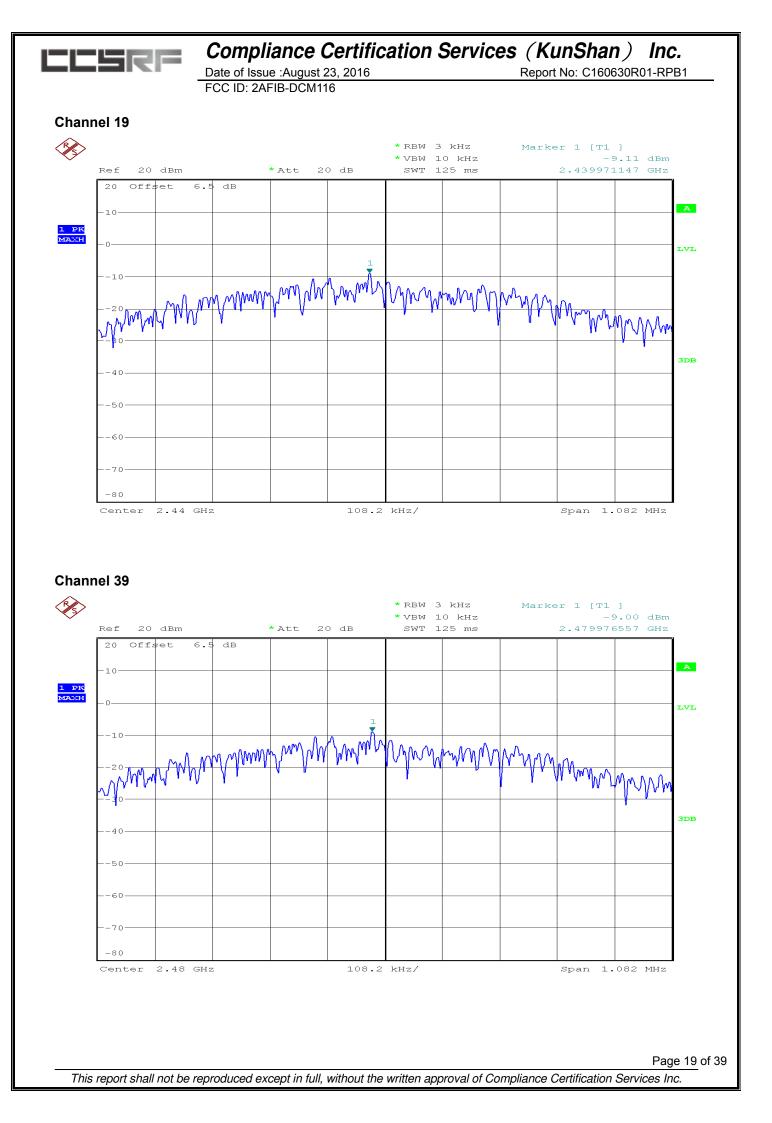
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Test Plot of power Spectral Density(3kHz)

Channel 00







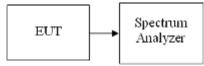
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6.3 6dB Bandwidth Measurement

Limit of 6dB Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Configuration



Test Procedure

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
- 5. Measure and record the results in the test report.

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Test Results of Bandwidth

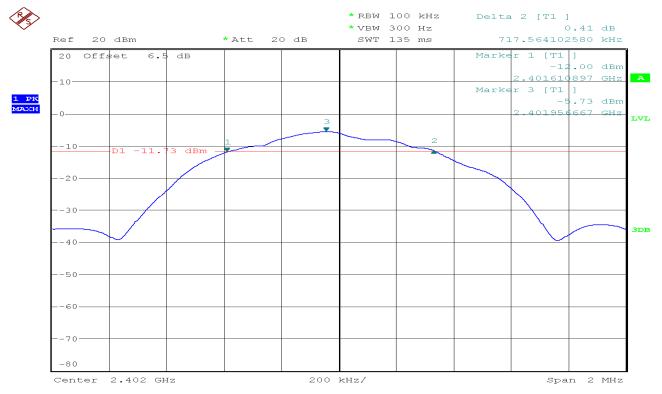
No non-compliance noted

Test mode:	Bluetooth LE4.0	Temperature:	23 °C
Test By:	Lily.Wang	Test Date:	2016-8-2

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	6dB Bandwidth Limit (MHz)	Result
00	2402	0.718	0.5	Pass
19	2440	0.715	0.5	Pass
39	2480	0.721	0.5	Pass

Test Plot

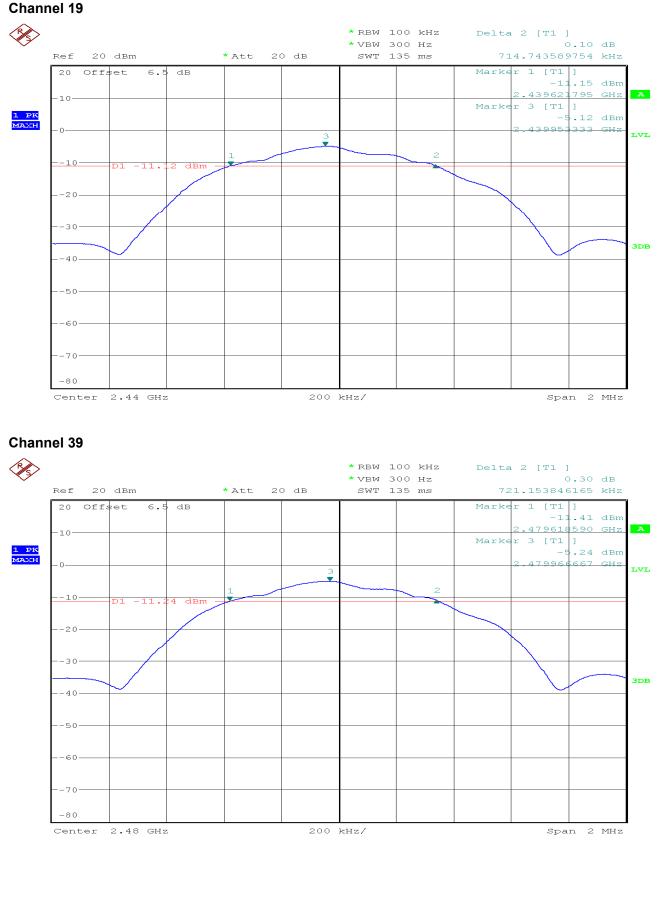
Channel 00



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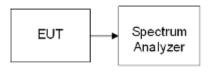
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6.4 Conducted Band Edges and Spurious Emission Measurement

<u>LIMIT</u>

All harmonics/spurious must be at least 20 dB down from the highest emission level within the authorized band.

Test Configuration



TEST PROCEDURE

1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05.

2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

3. Set to the maximum power setting and enable the EUT transmit continuously.

4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).

5. Measure and record the results in the test report.

6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

TEST RESULTS

No non-compliance noted

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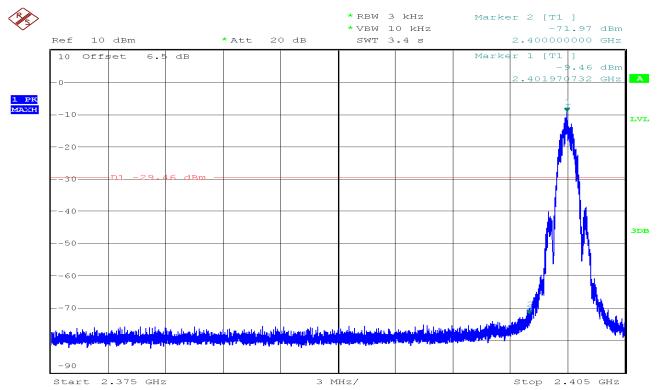


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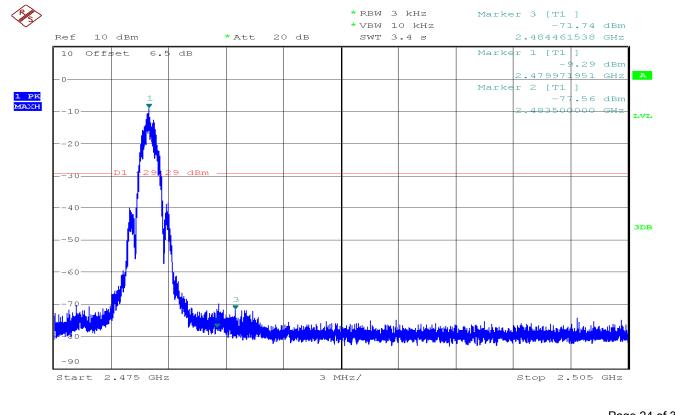
Test Result of Conducted Band Edges

Test mode:	Bluetooth LE4.0	Temperature:	23 °C
Test By:	Lily.Wang	Test Date:	2016-8-2

Low Band Edge Plot on Channel 00



High Band Edge Plot on Channel 39



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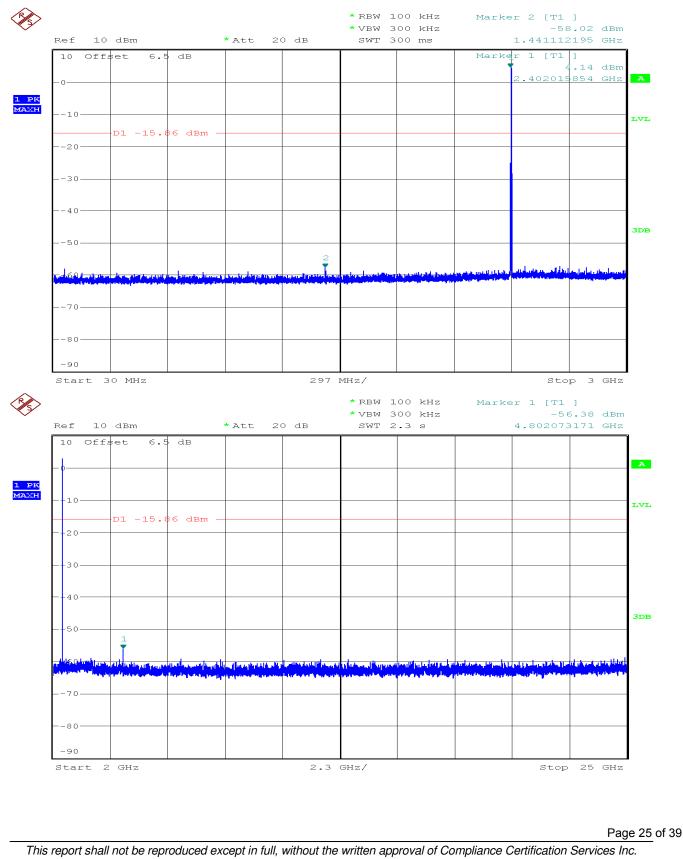


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Test Result of Conducted Spurious Emission

Test mode:	Bluetooth LE4.0	Temperature:	23 ℃
Test By:	Lily.Wang	Test Date:	2016-8-2

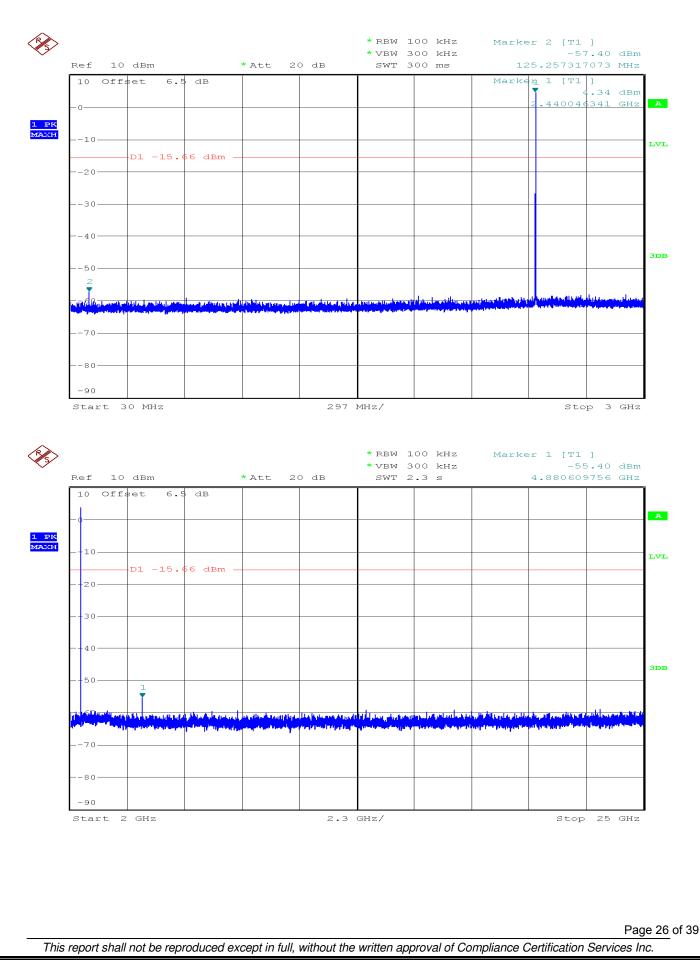
Conducted Spurious Emission Plot on Channel 00





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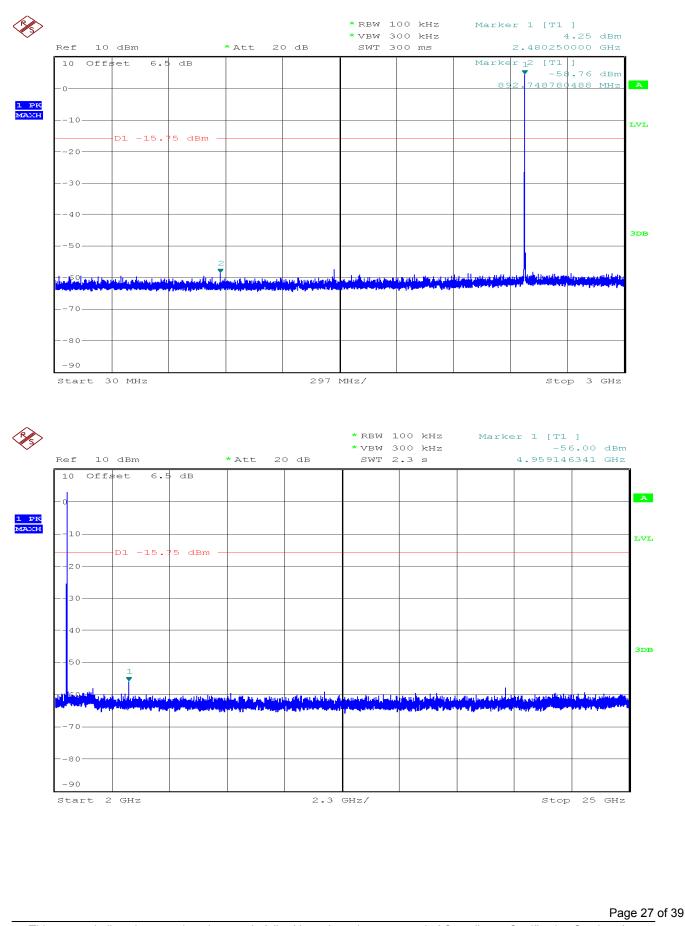






Date of Issue :August 23, 2016 FCC ID: 2AFIB-DCM116 Report No: C160630R01-RPB1







Date of Issue :August 23, 2016 FCC ID: 2AFIB-DCM116 Report No: C160630R01-RPB1

6.5 Radiated Band Edge and Spurious Emission Measurement

<u>LIMIT</u>

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

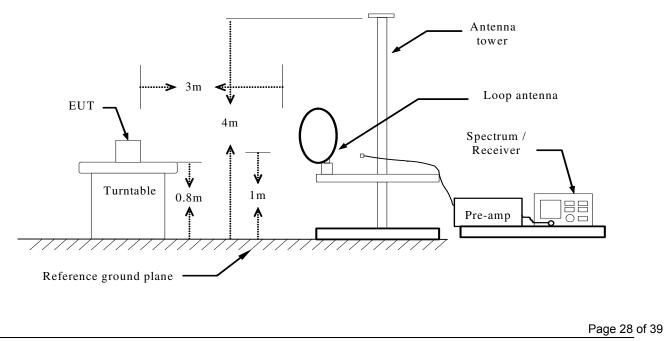
Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

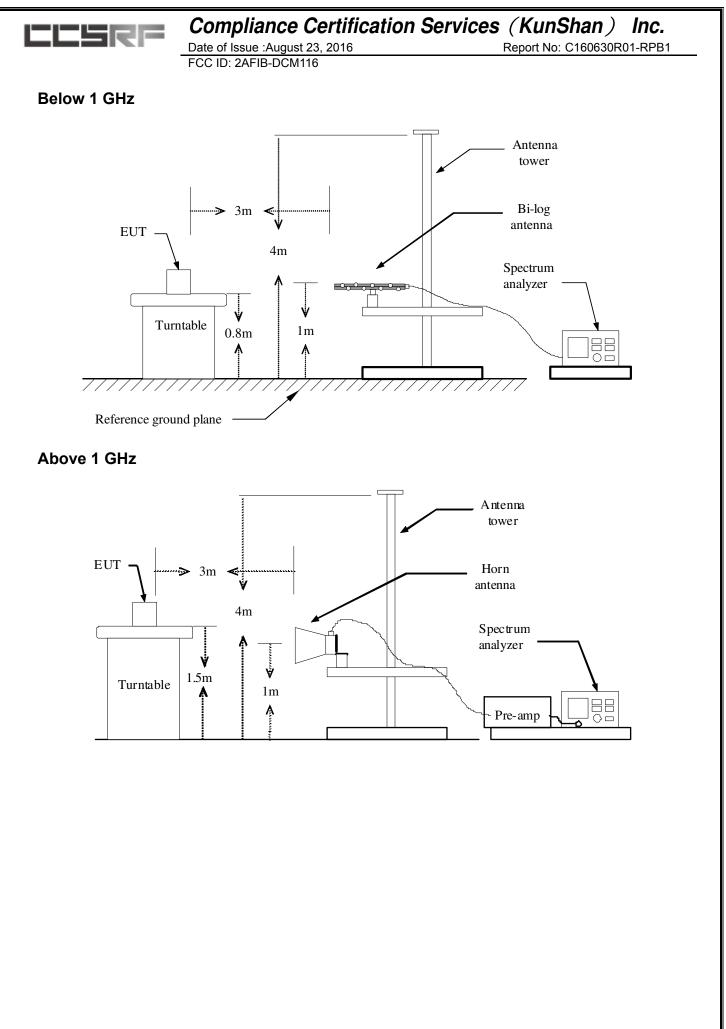
1. In the above emission table, the tighter limit applies at the band edges.

Frequency (Hz)	Field Strength (µV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Test Configuration

Below 30MHz





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TEST PROCEDURE

1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.

3. The EUT is placed on a turntable above ground plane, which is 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

7. Use the following spectrum analyzer settings:

(1) Span shall wide enough to fully capture the emission being measured;

(2) Set RBW=100 kHz for f < 1 GHz; VBW =3 RBW; Sweep = auto; Detector function = peak; Trace = max hold;

(3) Set RBW = 1 MHz, VBW= 3MHz for f > 1 GHz for peak measurement.

For average measurement:

• VBW = 10 Hz, when duty cycle is no less than 98 percent.

• VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum

transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

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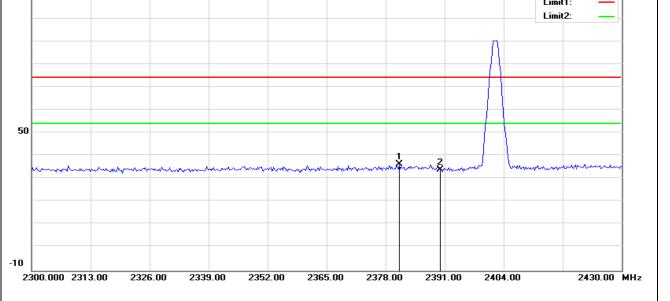


RESTRICTED110.0dBuV/m

Compliance Certification Services (KunShan) Inc.

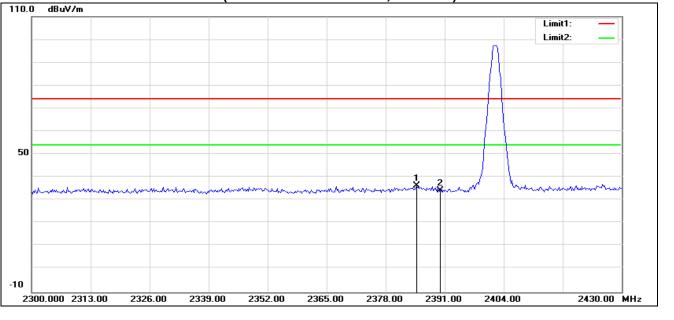
Date of Issue :August 23, 2016 FCC ID: 2AFIB-DCM116 Report No: C160630R01-RPB1





No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2381.042	43.58	-7.33	36.25	74.00	-37.75	100	293	peak
2	2390.000	41.34	-7.25	34.09	74.00	-39.91	100	146	peak

RESTRICTED BANDEDGE (BLE4.0 on Channel 0, Vertical)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2384.792	43.54	-7.30	36.24	74.00	-37.76	100	268	peak
2	2390.000	41.61	-7.25	34.36	74.00	-39.64	100	116	peak

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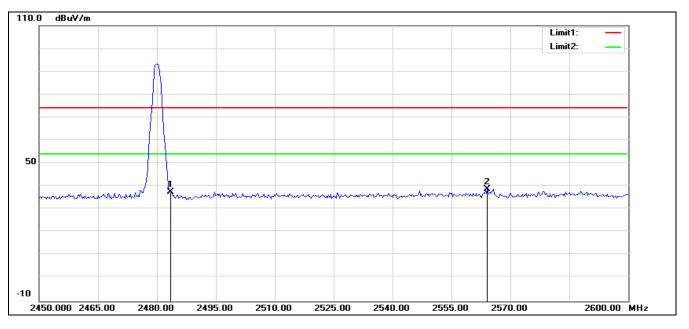


Date of Issue :August 23, 2016 FCC ID: 2AFIB-DCM116

LIRF

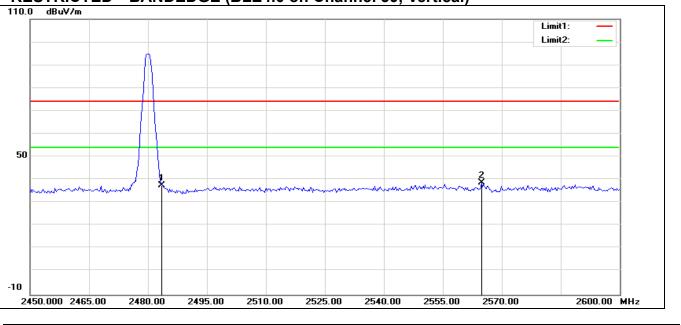
Report No: C160630R01-RPB1

RESTRICTED BANDEDGE (BLE4.0 on Channel 39, Horizontal)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2483.500	43.85	-6.44	37.41	74.00	-36.59	100	229	peak
2	2564.183	44.43	-5.74	38.69	74.00	-35.31	100	138	peak

RESTRICTED BANDEDGE (BLE4.0 on Channel 39, Vertical)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2483.500	44.13	-6.44	37.69	74.00	-36.31	100	113	peak
2	2564.904	44.53	-5.73	38.80	74.00	-35.20	100	138	peak

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Test Result of Radiated Emission

Below 30MHz

The interference of the frequency value is lower than the limit below 20 db, measured as the background noise values and will not be recorded.

30MHz-1GHz

Operation Mode:	Normal Link	Test Date:	2016-8-5
Temperature:	25°C	Tested by:	Lily.Wang
Humidity:	48% RH	Polarity:	Ver. / Hor.

Frequency (MHz)	Ant. Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
32.9100	V	12.40	20.65	33.05	40.00	-6.95	peak
223.0300	V	14.97	16.41	31.38	46.00	-14.62	peak
231.7600	V	15.06	16.41	31.47	46.00	-14.53	peak
662.4400	V	12.94	24.46	37.40	46.00	-8.60	peak
733.2500	V	13.21	25.35	38.56	46.00	-7.44	peak
762.3500	V	13.49	25.30	38.79	46.00	-7.21	peak
					•		
30.9700	н	11.69	21.62	33.31	40.00	-6.69	peak
228.8500	Н	13.98	16.41	30.39	46.00	-15.61	peak
440.3100	Н	12.61	21.18	33.79	46.00	-12.21	peak
467.4700	Н	13.14	21.64	34.78	46.00	-11.22	peak
535.3700	Н	12.13	22.44	34.57	46.00	-11.43	peak
820.5500	Н	13.22	25.51	38.73	46.00	-7.27	peak

Notes:

- 1. Mea surements above show only up to maximum emissions noted, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 2. Radiated emissions measured in frequency range from 9 KHz to 1000MHz were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

-65	RF	•	n ce Certifica August 23, 2016	ation Serv	•	u nShan) t No: C160630	
		FCC ID: 2AFIB			•		
Above 1 Gł	Ηz						
Operation I	Mode:	Bluetooth L	.E4.0 Te s	st Date:	20	16-8-5	
Test Chann		CH00	Te	sted by:	Lib	y.Wang	
Temperatu	-	25°C		larity:	Ver. / Hor.		
remperatur	0.	20 0		lanty.	ve	1. / 1101.	
Frequency (MHz)	Ant. Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4923.077	V	41.59	-4.40	37.19	74.00	-36.81	PEAK
7238.782	V	41.21	6.73	47.94	74.00	-26.06	PEAK
4044.040		40.50	4 5 4		74.00	05.00	
4841.346	H	42.53	-4.51	38.02	74.00	-35.98	PEAK
7293.269	Н	41.91	6.86	48.77	74.00	-25.23	PEAK
Operation Mode:		Bluetooth L	.E4.0 Te :	st Date:	20	16-8-5	
Test Channel:		CH19	Te	sted by:	Lily	y.Wang	
					-		
Temperatu	e:	25°C	Po	larity:	Ve	r. / Hor.	
Temperatui	re:	25°C	Po	larity:	Ve	r. / Hor.	
	Ant. Pol.	25°C Reading (dBuV)	Correction Factor	larity: Result (dBuV/m)	Ve Limit (dBuV/m)	r. / Hor. Margin (dB)	Remark
Frequency	Ant.	Reading	Correction	Result	Limit	Margin	Remark PEAK
Frequency (MHz)	Ant. Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
Frequency (MHz) 4841.346 7320.513	Ant. Pol. (H/V) ∨ V	Reading (dBuV) 41.57 40.15	Correction Factor (dB/m) -4.51 6.93	Result (dBuV/m) 37.06 47.08	Limit (dBuV/m) 74.00 74.00	Margin (dB) -36.94 -26.92	PEAK PEAK
Frequency (MHz) 4841.346 7320.513 4814.103	Ant. Pol. (H/V) V V	Reading (dBuV) 41.57 40.15 41.85	Correction Factor (dB/m) -4.51 6.93 -4.54	Result (dBuV/m) 37.06 47.08 37.31	Limit (dBuV/m) 74.00 74.00 74.00	Margin (dB) -36.94 -26.92 -36.69	PEAK PEAK PEAK
Frequency (MHz) 4841.346 7320.513	Ant. Pol. (H/V) ∨ V	Reading (dBuV) 41.57 40.15	Correction Factor (dB/m) -4.51 6.93	Result (dBuV/m) 37.06 47.08	Limit (dBuV/m) 74.00 74.00	Margin (dB) -36.94 -26.92	PEAK PEAK
Frequency (MHz) 4841.346 7320.513 4814.103 7238.782	Ant. Pol. (H/V) ∨ ∨ H H	Reading (dBuV) 41.57 40.15 41.85	Correction Factor (dB/m) -4.51 6.93 -4.54 6.73	Result (dBuV/m) 37.06 47.08 37.31	Limit (dBuV/m) 74.00 74.00 74.00 74.00	Margin (dB) -36.94 -26.92 -36.69	PEAK PEAK PEAK
Frequency (MHz) 4841.346 7320.513 4814.103 7238.782 Operation I	Ant. Pol. (H/V) V V H H	Reading (dBuV) 41.57 40.15 41.85 40.92	Correction Factor (dB/m) -4.51 6.93 -4.54 6.73	Result (dBuV/m) 37.06 47.08 37.31 47.65	Limit (dBuV/m) 74.00 74.00 74.00 74.00	Margin (dB) -36.94 -26.92 -36.69 -26.35 16-8-5	PEAK PEAK PEAK
Frequency (MHz) 4841.346 7320.513 4814.103	Ant. Pol. (H/V) V H H	Reading (dBuV) 41.57 40.15 41.85 40.92 Bluetooth L	Correction Factor (dB/m) -4.51 6.93 -4.54 6.73 E4.0 Tes Tes	Result (dBuV/m) 37.06 47.08 37.31 47.65	Limit (dBuV/m) 74.00 74.00 74.00 20 Lil	Margin (dB) -36.94 -26.92 -36.69 -26.35	PEAK PEAK PEAK
Frequency (MHz) 4841.346 7320.513 4814.103 7238.782 Operation I Test Chann Temperatur	Ant. Pol. (H/V) V V H H H S H el: re: Pol.	Reading (dBuV) 41.57 40.15 41.85 40.92 Bluetooth L CH39	Correction Factor (dB/m) -4.51 6.93 -4.54 6.73 E4.0 Tes Fee Po Correction Factor	Result (dBuV/m) 37.06 47.08 37.31 47.65 st Date: sted by:	Limit (dBuV/m) 74.00 74.00 74.00 20 Lil	Margin (dB) -36.94 -26.92 -36.69 -26.35 16-8-5 y.Wang	PEAK PEAK PEAK PEAK
Frequency (MHz) 4841.346 7320.513 4814.103 7238.782 Operation I Test Chann Temperatur	Ant. Pol. (H/V) V V H H H : el: re:	Reading (dBuV) 41.57 40.15 41.85 40.92 Bluetooth L CH39 25°C Reading	Correction Factor (dB/m) -4.51 6.93 -4.54 6.73 E4.0 Tes Po Correction	Result (dBuV/m) 37.06 47.08 37.31 47.65 st Date: sted by: larity: Result	Limit (dBuV/m) 74.00 74.00 74.00 20 Lily Ve	Margin (dB) -36.94 -26.92 -36.69 -26.35 16-8-5 y.Wang r. / Hor. Margin	PEAK PEAK PEAK PEAK
Frequency (MHz) 4841.346 7320.513 4814.103 7238.782 Operation I Test Chann Temperatur Frequency (MHz)	Ant. Pol. (H/V) V V H H H el: re: Ant. Pol. (H/V)	Reading (dBuV) 41.57 40.15 41.85 40.92 Bluetooth L CH39 25°C Reading (dBuV)	Correction Factor (dB/m) -4.51 6.93 -4.54 6.73 E4.0 Tes Festor Po Correction Factor (dB/m)	Result (dBuV/m) 37.06 47.08 37.31 47.65 st Date: sted by: larity: Result (dBuV/m)	Limit (dBuV/m) 74.00 74.00 74.00 74.00 20 Lily Ve	Margin (dB) -36.94 -26.92 -36.69 -26.35 16-8-5 y.Wang r. / Hor. Margin (dB)	PEAK PEAK PEAK PEAK
Frequency (MHz) 4841.346 7320.513 4814.103 7238.782 Operation I Test Chann Temperatur Frequency (MHz) 5113.782 7429.487	Ant. Pol. (H/V) V V H H H H re: re: Ant. Pol. (H/V) V V V	Reading (dBuV) 41.57 40.15 41.85 40.92 Bluetooth L CH39 25°C Reading (dBuV) 40.57	Correction Factor (dB/m) -4.51 6.93 -4.54 6.73 E4.0 Tes Factor (dB/m) -3.77 7.20	Result (dBuV/m) 37.06 47.08 37.31 47.65 st Date: sted by: larity: Result (dBuV/m) 36.80 48.30	Limit (dBuV/m) 74.00 74.00 74.00 74.00 20 Lily Ve Limit (dBuV/m) 74.00 74.00	Margin (dB) -36.94 -26.92 -36.69 -26.35 16-8-5 y.Wang r. / Hor. Margin (dB) -37.20 -25.70	PEAK PEAK PEAK PEAK PEAK
Frequency (MHz) 4841.346 7320.513 4814.103 7238.782 Operation I Test Chann Temperatur Frequency (MHz) 5113.782	Ant. Pol. (H/V) V V H H H H re: re:	Reading (dBuV) 41.57 40.15 41.85 40.92 Bluetooth L CH39 25°C Reading (dBuV) 40.57	Correction Factor (dB/m) -4.51 6.93 -4.54 6.73 E4.0 Tes Factor (dB/m) -3.77	Result (dBuV/m) 37.06 47.08 37.31 47.65 st Date: sted by: larity: Result (dBuV/m) 36.80	Limit (dBuV/m) 74.00 74.00 74.00 74.00 20 Lily Ve Limit (dBuV/m) 74.00	Margin (dB) -36.94 -26.92 -36.69 -26.35 16-8-5 y.Wang r. / Hor. Margin (dB) -37.20	PEAK PEAK Remark PEAK

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Date of Issue :August 23, 2016 FCC ID: 2AFIB-DCM116 Report No: C160630R01-RPB1

6.6 POWERLINE CONDUCTED EMISSIONS

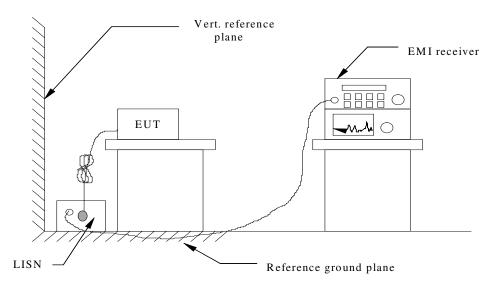
<u>LIMIT</u>

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

	Limits (dBµV)				
Frequency Range (MHz)	Quasi-peak	Average			
0.15 to 0.50	66 to 56	56 to 46			
0.50 to 5	56	46			
5 to 30	60	50			

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration



See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

<u>TEST RESULTS</u>

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

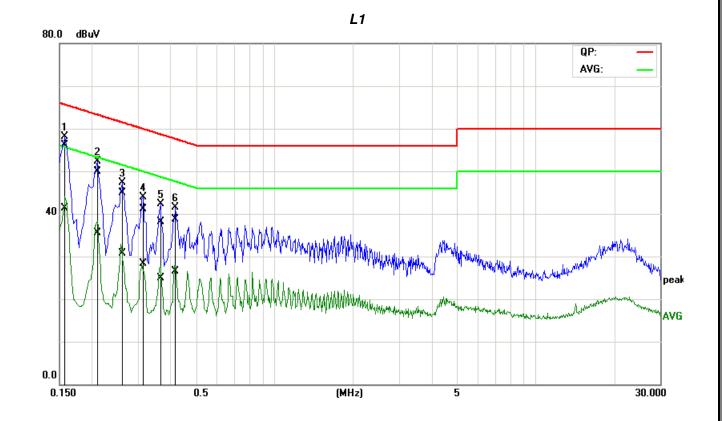
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Date of Issue :August 23, 2016 FCC ID: 2AFIB-DCM116 Report No: C160630R01-RPB1

Test Data

Job No.:	C160630R01	Date:	2016-8-10
Model No.:	YI-M1	Time:	AM 09:24:02
Standard:	FCC Class B	Temp.(C)/Hum.(%):	22(C)/48%
Test item:	Conduction test	Test By:	Lily.Wang
Line:	L1	Test Voltage:	AC 120V/60Hz
Model:		Description:	



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1566	36.31	21.60	19.79	56.10	41.39	65.64	55.64	-9.54	-14.25	Pass
2	0.2084	30.11	15.66	19.79	49.90	35.45	63.27	53.27	-13.37	-17.82	Pass
3	0.2607	25.11	10.92	19.80	44.91	30.72	61.41	51.41	-16.50	-20.69	Pass
4	0.3118	21.27	8.45	19.80	41.07	28.25	59.92	49.92	-18.85	-21.67	Pass
5	0.3666	18.38	5.06	19.80	38.18	24.86	58.58	48.58	-20.40	-23.72	Pass
6	0.4163	18.89	6.69	19.81	38.70	26.50	57.52	47.52	-18.82	-21.02	Pass

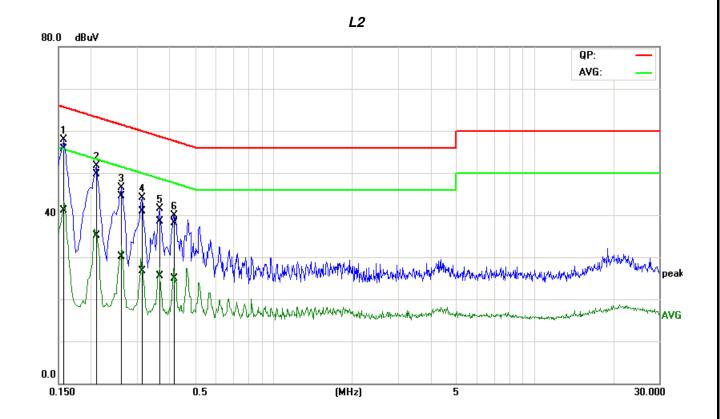
Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

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Date of Issue :August 23, 2016 FCC ID: 2AFIB-DCM116 Report No: C160630R01-RPB1

Job No.:	C160630R01	Date:	2016-8-10
Model No.:	YI-M1	Time:	AM 09:29:06
Standard:	FCC Class B	Temp.(C)/Hum.(%):	22(C)/48%
Test item:	Conduction test	Test By:	Lily.Wang
Line:	L2	Test Voltage:	AC 120V/60Hz
Model:		Description:	



No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
		reading	reading	factor	result	result	limit	limit	margin	margin	
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1570	36.01	21.27	19.74	55.75	41.01	65.62	55.62	-9.87	-14.61	Pass
2	0.2087	29.91	15.32	19.74	49.65	35.06	63.26	53.26	-13.61	-18.20	Pass
3	0.2617	24.71	10.34	19.75	44.46	30.09	61.38	51.38	-16.92	-21.29	Pass
4	0.3140	21.20	7.05	19.75	40.95	26.80	59.86	49.86	-18.91	-23.06	Pass
5	0.3657	18.77	5.75	19.75	38.52	25.50	58.60	48.60	-20.08	-23.10	Pass
6	0.4180	18.29	5.17	19.75	38.04	24.92	57.49	47.49	-19.45	-22.57	Pass

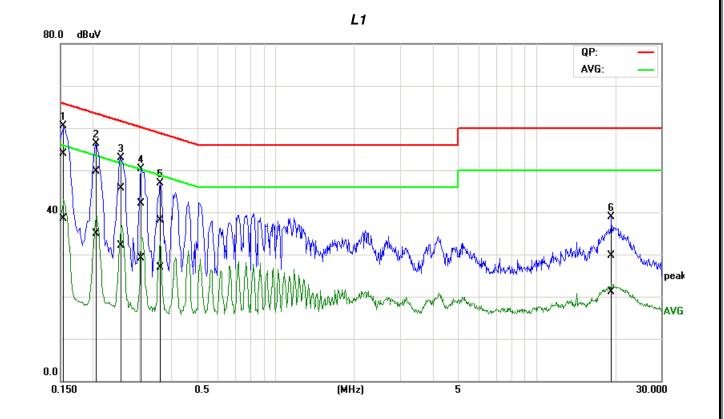
Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

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Date of Issue :August 23, 2016 FCC ID: 2AFIB-DCM116 Report No: C160630R01-RPB1

Job No.:	C160630R01	Date:	2016-8-10
Model No.:	YI-M1	Time:	AM 09:13:00
Standard:	FCC Class B	Temp.(C)/Hum.(%):	22(C)/48%
Test item:	Conduction test	Test By:	Lily.Wang
Line:	L1	Test Voltage:	AC 240V/60Hz
Model:		Description:	



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1560	34.13	18.78	19.79	53.92	38.57	65.67	55.67	-11.75	-17.10	Pass
2	0.2050	29.84	15.14	19.79	49.63	34.93	63.41	53.41	-13.78	-18.48	Pass
3	0.2567	25.98	12.23	19.80	45.78	32.03	61.54	51.54	-15.76	-19.51	Pass
4	0.3068	22.40	9.25	19.80	42.20	29.05	60.06	50.06	-17.86	-21.01	Pass
5	0.3584	18.26	7.09	19.80	38.06	26.89	58.77	48.77	-20.71	-21.88	Pass
6	19.3405	9.64	1.02	20.10	29.74	21.12	60.00	50.00	-30.26	-28.88	Pass

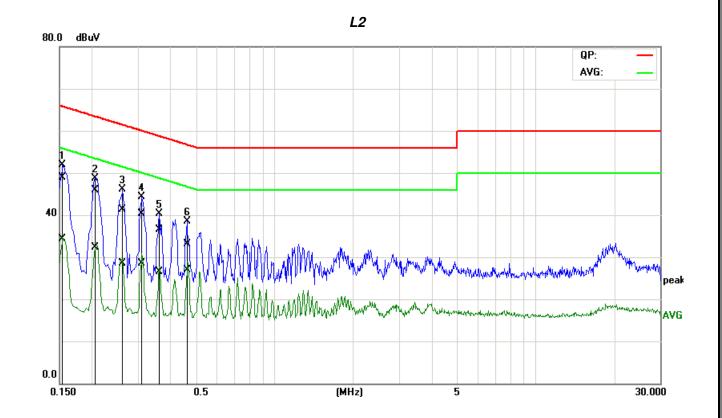
Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

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Date of Issue :August 23, 2016 FCC ID: 2AFIB-DCM116 Report No: C160630R01-RPB1

Job No.:	C160630R01	Date:	2016-8-10
Model No.:	YI-M1	Time:	AM 09:18:49
Standard:	FCC Class B	Temp.(C)/Hum.(%):	22(C)/48%
Test item:	Conduction test	Test By:	Lily.Wang
Line:	L2	Test Voltage:	AC 240V/60Hz
Model:		Description:	



No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
		reading	reading	factor	result	result	limit	limit	margin	margin	
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1547	29.26	14.63	19.74	49.00	34.37	65.74	55.74	-16.74	-21.37	Pass
2	0.2068	26.11	12.62	19.74	45.85	32.36	63.33	53.33	-17.48	-20.97	Pass
3	0.2616	21.65	8.70	19.75	41.40	28.45	61.38	51.38	-19.98	-22.93	Pass
4	0.3121	20.64	8.69	19.75	40.39	28.44	59.91	49.91	-19.52	-21.47	Pass
5	0.3609	16.84	6.82	19.75	36.59	26.57	58.71	48.71	-22.12	-22.14	Pass
6	0.4621	13.31	7.20	19.75	33.06	26.95	56.65	46.65	-23.59	-19.70	Pass

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line). *Re*mark:

1. The measuring frequencies range between 0.15 MHz and 30 MHz.

2. The emissions measured in the frequency range between 0.15 MHz and 30MHz were made with an instrument using Quasi-peak detector and Average detector.

3."---" denotes the emission level was or more than 2dB below the Average limit, and no re-check was made.

4. The IF bandwidth of SPA between 0.15MHz and 30MHz was 10KHz. The IF bandwidth of Test Receiver between 0.15MHz and 30MHz was 9kHz.

END OF REPORT

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