

# FCC PART 15.249 TEST REPORT

For

# Shenzhen Merrytek Technology Co.,LTD

NO.3 Building, 380 Xiangshan Avenue, Luotian, Songgang Town, Bao'an District, Shenzhen, Guangdong, China

**FCC ID: 2AI53-MC031V** 

Report Type: Original Report		Product Type: Lighting Control Switch
Test Engineer:	Rocky Xiao	pocky xiao
Report Number:		1-00
Report Date:  Reviewed By:	Jerry Zhang EMC Manager	Jerry Zhang
Test Laboratory:	No.69 Pulongci	86858891

**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).

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#### **GENERAL INFORMATION**

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

The Shenzhen Merrytek Technology Co.,LTD's product, model number: MC031V A (FCC ID: 2AI53-MC031V) (the "EUT") in this report was a Lighting Control Switch, which was measured approximately:8 cm (L) x 4.3 cm (W) x 1.7 cm (H), rated input voltage: AC120.0V.

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Note: The series product, model MC031V A, MC031V B, MC031V C, MC031V D are electrically identical, the difference them is the model name and enclosure shape, we selected MC031V A for fully testing, the details was explained in the attached declaration letter.

All measurement and test data in this report was gathered from production sample serial number: 160630051 (Assigned byBACL, Dongguan). The EUT was received on 2016-06-30.

#### **Objective**

This type approval report is prepared on behalf of *Shenzhen Merrytek Technology Co.,LTD*. in accordance with Part 2-Subpart J, and Part 15-Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.249 rules.

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

No related submittal.

#### **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 emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan).

#### **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 06, 2015.

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.

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# SYSTEM TEST CONFIGURATION

#### **Justification**

The system was configured for testing in engineering mode with maximum power output. The device operating at 5775MHz.

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## **EUT Exercise Software**

No software was used in testing.

# **Equipment Modifications**

No modifications were made to the EUT.

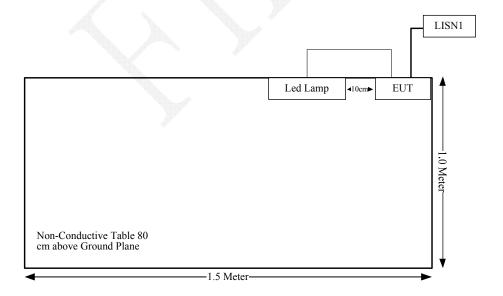
# **Support Equipment List and Details**

Manufacturer	Description	Model	Serial Number	
Supersun	LED LAMP	SPSA191227	N/A	

#### **External I/O Cable**

Cable Description	Shielding Type	Ferrite Core	Length (m)	From	То
AC Power Line	No	No	2.0	EUT	Lamp

# **Block Diagram of Test Setup**



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# SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result		
§15.203	Antenna Requirement	Compliance		
§15.207(a)	Conduction Emissions	Compliance		
15.205, §15.209, §15.249	Radiated Emissions	Compliance		
§15.215 (c)	20 dB Bandwidth	Compliance		

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# FCC§15.203 - ANTENNA REQUIREMENT

## **Applicable Standard**

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used.

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## **Antenna Connector Construction**

The EUT has an internal antenna, the antenna gain is 0dBi, 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

#### **Measurement Uncertainty**

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

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

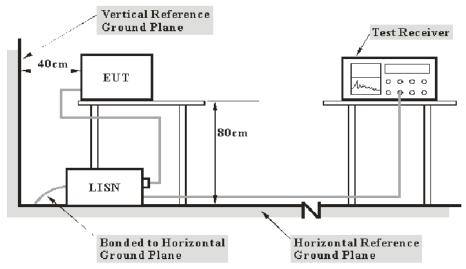
- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. If  $U_{\text{lab}}$  is greater than  $U_{\text{cispr}}$  of Table 1, then:
- compliance is deemed to occur 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  $(U_{\text{lab}} U_{\text{cispr}})$ , 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 3.12 dB (150 kHz to 30 MHz).

Table 1 – Values of  $U_{\text{cispr}}$ 

Measurement	$U_{ m cispr}$
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.

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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.

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The spacing between the peripherals was 10 cm.

The EUT 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 of laptop was connected to the first 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<sub>C</sub> (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:

Margin = Limit – Corrected Amplitude

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## **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCS 30	830245/006	2015-12-10	2016-12-09
R&S	L.I.S.N	ESH3-Z5	892107/021	2015-07-16	2016-07-15
R&S	Two-line V-network	ENV 216	3560.6550.12	2015-11-26	2016-11-25
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A

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## **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:

## 21.2 dB at 0.480097 MHz in the Line conducted mode

#### **Test Data**

#### **Environmental Conditions**

Temperature:	31.6°C
Relative Humidity:	48 %
ATM Pressure:	100.3 kPa

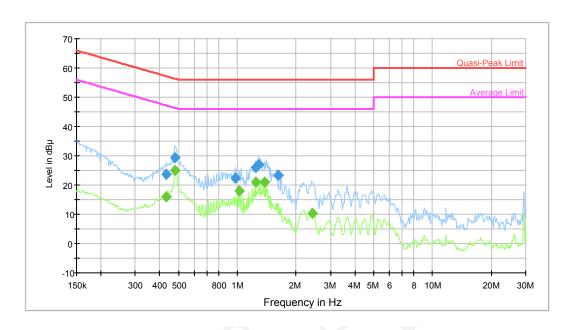
The testing was performed by Rocky Xiao on 2016-07-01.

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<sup>\*</sup> 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 Mode: Transmitting

# AC120 V, 60 Hz, Line:



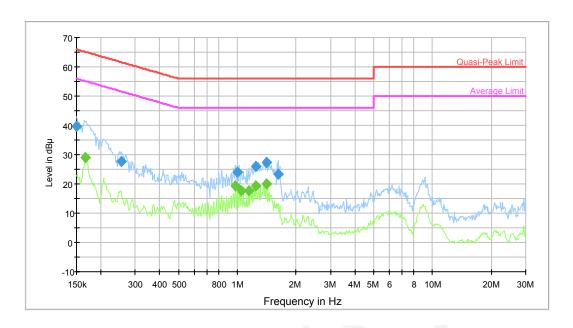
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Frequency (MHz)	Quasi Peak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.429420	23.6	9.000	L1	10.2	33.7	57.3	Compliance
0.476287	29.5	9.000	L1	10.1	26.9	56.4	Compliance
0.975701	22.3	9.000	L1	10.4	33.7	56.0	Compliance
1.239175	25.9	9.000	L1	10.4	30.1	56.0	Compliance
1.289541	27.1	9.000	L1	10.4	28.9	56.0	Compliance
1.624765	23.5	9.000	L1	10.4	32.5	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.429420	16.1	9.000	L1	10.2	31.2	47.3	Compliance
0.480097	25.1	9.000	L1	10.1	21.2	46.3	Compliance
1.023481	18.0	9.000	L1	10.4	28.0	46.0	Compliance
1.239175	21.1	9.000	L1	10.4	24.9	46.0	Compliance
1.385415	20.9	9.000	L1	10.4	25.1	46.0	Compliance
2.420011	10.4	9.000	L1	10.4	35.6	46.0	Compliance

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# AC120 V, 60 Hz, Neutral:



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Frequency (MHz)	Quasi Peak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	39.6	9.000	N	10.2	26.4	66.0	Compliance
0.255827	27.6	9.000	N	10.2	34.0	61.6	Compliance
0.999305	23.9	9.000	N	10.4	32.1	56.0	Compliance
1.239175	26.1	9.000	N	10.4	29.9	56.0	Compliance
1.407671	27.4	9.000	N	10.4	28.6	56.0	Compliance
1.624765	23.4	9.000	N	10.4	32.6	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.166371	28.9	9.000	N	10.1	26.2	55.1	Compliance
0.975701	19.3	9.000	N	10.4	26.7	46.0	Compliance
1.048242	17.7	9.000	N	10.4	28.3	46.0	Compliance
1.144267	17.6	9.000	N	10.4	28.4	46.0	Compliance
1.239175	19.3	9.000	N	10.4	26.7	46.0	Compliance
1.407671	20.1	9.000	N	10.4	25.9	46.0	Compliance

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# FCC§15.205, §15.209&§15.249- RADIATED EMISSIONS

#### **Applicable Standard**

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

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As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

#### **Measurement Uncertainty**

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

If  $U_{\text{lab}}$  is less than or equal to  $U_{\text{cispr}}$  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  $U_{\text{lab}}$  is greater than  $U_{\text{cispr}}$  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  $(U_{\text{lab}} U_{\text{cispr}})$ , 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: 4.58 dB for Horizontal, 4.59 dB for Vertical; 200M~1GHz: 4.83 dB for Horizontal, 5.85 dB for Vertical; 1G~6GHz: 4.45 dB, 6G~18GHz: 5.23 dB

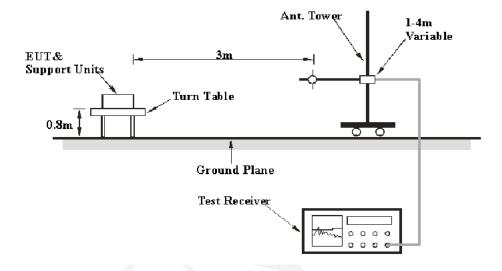
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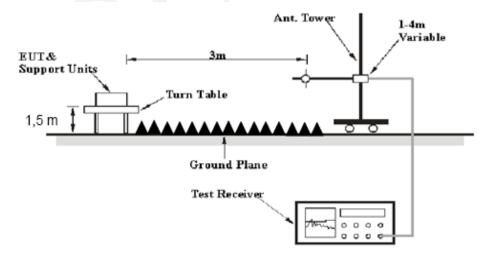
Measurement				
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB			
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB			
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB			

# **EUT Setup**

Below 1 GHz:



Above 1 GHz:



The radiated emission and out of band emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013 The specification used was the FCC 15.209/15.205 and FCC 15.249 limits.

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## **Test Equipment Setup**

The system was investigated from 30 MHz to 40 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 CHz	1MHz	3 MHz	/	PK
Above 1 GHz	1MHz	10 Hz	/	Ave.

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#### **Test Procedure**

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

All data was recorded in the Quasi-peak detection mode from 30 MHz to 1GHz, peak and average detection mode above 1 GHz.

#### **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 Amplitude = Meter Reading + Antenna Factor + Cable Loss - 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:

Margin = Limit –Corrected Amplitude

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# **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2015-08-03	2016-08-02
Sunol Sciences	Antenna	ЈВ3	A060611-3	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
Agilent	Spectrum Analyzer	E4440A	SG43360054	2015-11-23	2016-11-22
ETS-Lindgren	Horn Antenna	3115	9808-5557	2015-09-06	2018-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2016-02-19	2017-02-19
R&S	Spectrum Analyzer	FSP 38	100478	2016-05-09	2017-05-09
Ducommun Technolagies	Horn Antenna	ARH-4223-02	1007726-01 1304	2014-06-16	2017-06-15
Quinstar	Amplifier	QLW- 18405536-JO	15964001001	2015-09-06	2016-09-06
N/A	Coaxial Cable	14m	N/A	2016-05-06	2017-05-06
N/A	Coaxial Cable	8m	N/A	2016-05-06	2017-05-06

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## **Test Data**

#### **Environmental Conditions**

	47" "10" "1000000000000000000000000000000
Temperature:	26.8 °C
Relative Humidity:	49 %
ATM Pressure:	100.3 kPa

The testing was performed by Rocky Xiao on 2016-07-01.

Test Mode: Transmitting

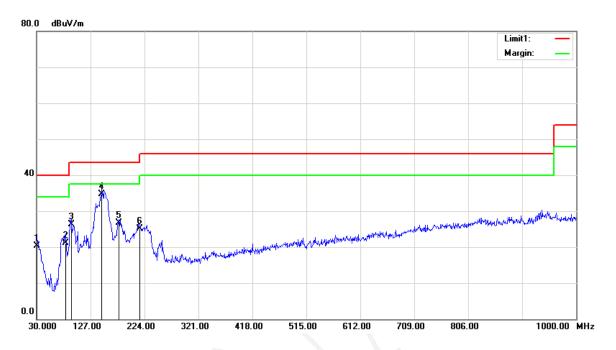
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<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Mode: Transmitting

## 30MHz-1GHz:

## Horizontal

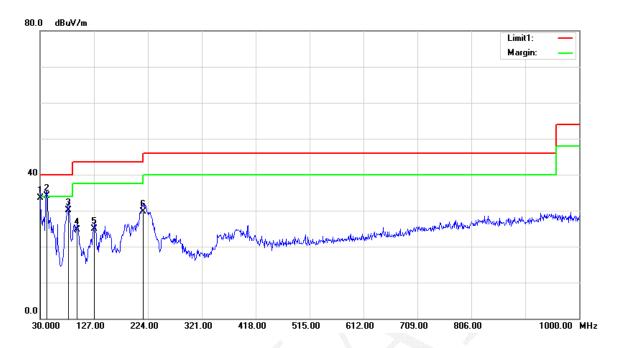


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Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBμV/m)	Margin (dB)
30.0000	19.35	QP	0.95	20.30	40.00	19.70
82.3800	33.32	QP	-12.12	21.20	40.00	18.80
92.0800	37.95	QP	-11.65	26.30	43.50	17.20
147.3700	41.88	QP	-7.08	34.80	43.50	8.70
177.4400	34.92	QP	-8.22	26.70	43.50	16.80
215.2700	34.11	QP	-8.91	25.20	43.50	18.30

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## Vertical



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Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
30.0000	32.65	QP	0.95	33.60	40.00	6.40
41.6400	41.75	QP	-7.65	34.10	40.00	5.90
80.4400	42.26	QP	-12.06	30.20	40.00	9.80
96.9300	35.27	QP	-10.47	24.80	43.50	18.70
127.9700	30.52	QP	-5.62	24.90	43.50	18.60
215.2700	38.61	QP	-8.91	29.70	43.50	13.80

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E	Re	eceiver	Rx A	Antenna	Cable	Amplifier	Corrected	T ::4	Manain
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB(1/m))	loss (dB)	Gain (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5775	71.77	PK	Н	32.16	5.48	26.57	82.84	114.00	31.16
5775	57.72	AV	Н	32.16	5.48	26.57	68.79	94.00	25.21
5775	88.33	PK	V	32.16	5.48	26.57	99.40	114.00	14.60
5775	74.28	AV	V	32.16	5.48	26.57	85.35	94.00	8.65
5725	40.19	PK	V	32.15	5.60	26.63	51.31	74.00	22.69
5725	39.46	AV	V	32.14	5.63	26.64	50.59	54.00	3.41
5875	42.01	PK	V	32.18	5.97	26.75	53.41	74.00	20.59
5875	36.22	AV	V	32.18	5.97	26.75	47.62	54.00	6.38
11550	40.86	PK	V	37.90	8.93	26.09	61.60	74.00	12.40
11550	26.81	AV	V	37.90	8.93	26.09	47.55	54.00	6.45
17325	36.59	PK	V	41.45	13.17	25.63	65.58	74.00	8.42
17325	22.54	AV	V	41.45	13.17	25.63	51.53	54.00	2.47
6681	34.59	PK	V	32.77	6.22	26.62	46.96	74.00	27.04
6681	22.37	AV	V	32.77	6.22	26.62	34.74	54.00	19.26
10245	33.85	PK	V	36.95	8.49	25.56	53.73	74.00	20.27
10245	21.41	AV	V	36.95	8.49	25.56	41.29	54.00	12.71

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# FCC §15.215(c) – 20 dB BANDWIDTH TESTING

## Applicable Standard

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.

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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 on the test table without connection to measurement instrument. Turn on the EUT. 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.
- 4. Repeat above procedures until all frequencies measured were complete.

#### **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-11-23	2016-11-22
E-Microwave	DC Blocking	EMDCB- 00036	0E01201047	2016-05-06	2017-05-06
N/A	Coaxial Cable	0.1m	N/A	2016-05-06	2017-05-06

<sup>\*</sup> 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 Data**

#### **Environmental Conditions**

Temperature:	27.4 °C
Relative Humidity:	42 %
ATM Pressure:	99.9 kPa

<sup>\*</sup> The testing was performed by Rocky Xiao on 2016-07-04.

Test Result: Compliant.

Please refer to following tables and plots

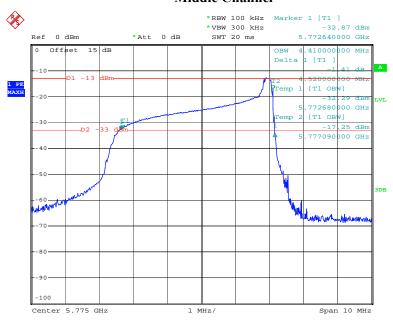
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Test Mode: Transmitting

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
Middle	5775	4.520

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#### **Middle Channel**



Date: 4.JUL.2016 15:55:38

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

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