



| | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------|
| Prüfbericht-Nr.: <i>Test report No.:</i> | 50214442 001 | Auftrags-Nr.: <i>Order No.:</i> | 174097426 | Seite 1 von 13 <i>Page 1 of 13</i> | |
| Kunden-Referenz-Nr.: <i>Client reference No.:</i> | N/A | Auftragsdatum: <i>Order date.:</i> | 02.01.2019 | | |
| Auftraggeber: <i>Client:</i> | Ring LLC 1523 26th St, Santa Monica, CA 90404, USA | | | | |
| Prüfgegenstand: <i>Test item:</i> | Floodlight Battery | | | | |
| Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i> | 5B21S8 | | | | |
| Auftrags-Inhalt: <i>Order content:</i> | FCC testing | | | | |
| Prüfgrundlage: <i>Test specification:</i> | CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.209 | | | | |
| Wareneingangsdatum: <i>Date of receipt:</i> | 02.01.2019 | Please refer to photo documents | | | |
| Prüfmuster-Nr.: <i>Test sample No.:</i> | A000723491-002 | | | | |
| Prüfzeitraum: <i>Testing period:</i> | 02.01.2019 - 04.01.2019 | | | | |
| Ort der Prüfung: <i>Place of testing:</i> | TÜV Rheinland (Guangdong) Ltd. | | | | |
| Prüflaboratorium: <i>Testing laboratory:</i> | TÜV Rheinland (Guangdong) Ltd. | | | | |
| Prüfergebnis*: <i>Test result*:</i> | Pass | | | | |
| geprüft von / tested by: | | kontrolliert von / reviewed by: | | | |
|  | |  | | | |
| 04.01.2019 | Amy Wang / Project Manager | 07.01.2019 | Storm Shu / Technical Certifier | | |
| Datum <i>Date</i> | Name/Stellung <i>Name/Position</i> | Unterschrift <i>Signature</i> | Datum <i>Date</i> | Name/Stellung <i>Name/Position</i> | Unterschrift <i>Signature</i> |
| Sonstiges / Other: | | | | | |
| FCC ID: 2AEUPBHAFB001 | | | | | |
| Note: The Radiated Spurious Emission of this product are evaluated in this report which was additional tests as test report 50213031 001. | | | | | |
| Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i> | | | Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i> | | |
| * Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested | | | | | |
| Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. | | | | | |
| <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i> | | | | | |

V04

Test Summary

5.1.1 RADIATED SPURIOUS EMISSION

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

Appendix B: Test Results of General 2.4GHz wireless

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Guangdong) Ltd.

No.102, 1F of Southwest and No.205, 2F No.767 Tianyuan Road, Tianhe District, Guangzhou 510663,
Guangdong Province P.R. China

FCC Accreditation Designation No.: CN1207

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

For the measurement Equipment list, refer to the appendix B.

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

| Item | Extended Uncertainty |
|-----------------------------------|-----------------------------------------|
| Conducted Emission | ± 2.68 dB |
| Radiated Emission (30-1000MHz) | Field strength (dB μ V/m) ± 5.16 dB |
| Radiated Emission (above 1000MHz) | Field strength (dB μ V/m) ± 2.22 dB |
| Radio Spectrum | ± 4.51 dB |

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Guangdong) Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Guangdong) Ltd. Test facility located at No.102, 1F of Southwest and No.205, 2F No.767 Tianyuan Road, Tianhe District, Guangzhou 510663, Guangdong Province P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT (equipment under test) 5B21S8 is a Floodlight Battery which support Bluetooth Wireless function operated at 2.4GHz.

Therefore, RE (1-18GHz) tests were performed on **5B21S8**.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

| General Information of EUT | Value |
|----------------------------|--------------------------------|
| Kind of Equipment | Floodlight Battery |
| Bluetooth Core Version | Bluetooth Low Energy 4.2 |
| Type Designation | 5B21S8 |
| FCC ID | 2AEUPBHAFB001 |
| Operating Voltage | DC 6V (lithium battery) |
| Testing Voltage | DC 6V |
| Type of Modulation | GFSK |
| Channel Number | 39 channels |
| Channel Separation | 2MHz |
| Antenna Type | Integral Antenna (PCB Antenna) |
| Antenna number | 1 |
| Antenna Gain | 2 dBi Max |

Table 3: RF Channel and Frequency of General 2.4GHz Bluetooth (LE mode)

| RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) |
|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|
| 0 | 2402.00 | 11 | 2424.00 | 22 | 2446.00 | 33 | 2468.00 |
| 1 | 2404.00 | 12 | 2426.00 | 23 | 2448.00 | 34 | 2470.00 |
| 2 | 2406.00 | 13 | 2428.00 | 24 | 2450.00 | 35 | 2472.00 |
| 3 | 2408.00 | 14 | 2430.00 | 25 | 2452.00 | 36 | 2474.00 |
| 4 | 2410.00 | 15 | 2432.00 | 26 | 2454.00 | 37 | 2476.00 |
| 5 | 2412.00 | 16 | 2434.00 | 27 | 2456.00 | 38 | 2478.00 |
| 6 | 2414.00 | 17 | 2436.00 | 28 | 2458.00 | 39 | 2480.00 |
| 7 | 2416.00 | 18 | 2438.00 | 29 | 2460.00 | | |
| 8 | 2418.00 | 19 | 2440.00 | 30 | 2462.00 | | |
| 9 | 2420.00 | 20 | 2442.00 | 31 | 2464.00 | | |
| 10 | 2422.00 | 21 | 2444.00 | 32 | 2466.00 | | |

Test frequencies are lowest channel: 2402 MHz, middle channel: 2440 MHz and highest channel: 2480 MHz for General 2.4GHz

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, General 2.4GHz wireless transmitting mode
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. On, Transmitting on hopping channel
- C. On, Normal operation with general 2.4GHz mode
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- Block Diagram
- FCC/IC Label and Location Info
- Operation Description
- Photo Document
- Schematics
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model 5B21S8 in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

| Description | Manufacturer | Model | S/N | Rating |
|-------------|--------------|---------------|----------|--------|
| Notebook | Lenovo | ThinkPad X260 | PC0DZSKR | N/A |

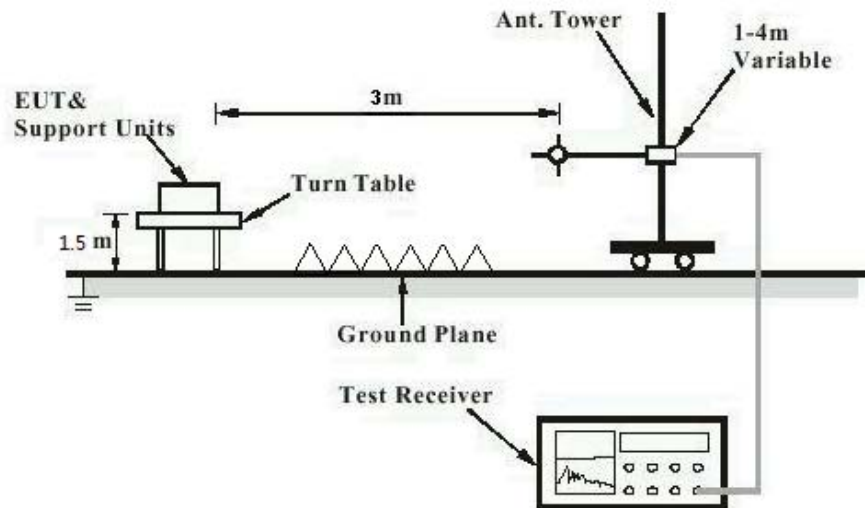
4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Radiated Spurious Emission

RESULT:**Pass****Test Specification**

| | |
|-------------------|--------------------------------------------|
| Test standard | : FCC Part 15.247 (d) & FCC Part 15.205 |
| Basic standard | : ANSI C63.10: 2013 |
| Limits | : Refer to 15.209(a) of FCC part 15.247(d) |
| Kind of test site | : 3m Semi-anechoic Chamber |

Test Setup

| | |
|----------------------|------------------------|
| Date of testing | : Refer to test result |
| Input voltage | : DC 6V |
| Operation mode | : A |
| Test channel | : Low / Middle / High |
| Ambient temperature | : 22 °C |
| Relative humidity | : 50 % |
| Atmospheric pressure | : 100 kPa |

Remark:

Testing was carried out within frequency range 1GHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix B.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

7 List of Tables

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Appendix B: Test Results of General 2.4GHz

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Appendix B.1: Measurement Equipment List

Measurement Equipment List



Testing Start Date 02.01.2019
Testing end date 04.01.2019

Project Manager Amy Wang

Test Report Number 50141684 001
Order Item Number 0174097426A00040

Customer TUV Rheinland / CCIC (Ningbo)
Product Name Floodlight battery
Comment

Page 1 of 1

| Old ID | Equip. | Description | Model | Manufacturer | Inte. (mon) | Due Date |
|--------|---------|----------------------------|----------------------|--------------------|----------------|------------|
| 1.805 | 1813829 | FSP30 Spectrum Analyzer | FSP30 | Rohde & Schwarz | 12 | 22.08.2019 |
| 1.889C | 1814199 | Double-Ridged Horn Antenna | HF907(3米) | Rohde & Schwarz | 24 | 23.10.2020 |
| 1.808 | 1813833 | Horn Antenna | 3160-09 | EMCO | 60 | 29.07.2019 |
| 1.819C | 1814068 | Pre-Amplifier | A44-00101800-25-10P- | MITEQ | 12 | 16.03.2019 |
| 1.819A | 1813846 | Band Reject Filter | BRM50702 | Micro-Tronics | 24 | 04.07.2020 |
| 1.808A | 1813834 | Pre-Amplifier | A33-18002650-30-8P-4 | MITEQ | 24 | 20.07.2019 |
| 1.666 | 1813697 | SAC | N/A | Albatross Project | 36 | 08.10.2021 |
| 1.913 | 1814012 | Shielding Room | 9x4x3.4 | Changzhou Yuanping | 60 | 06.12.2020 |

Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Appendix B.2: Fundamental & Harmonics Radiated Emission

1GHz - 18GHz

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

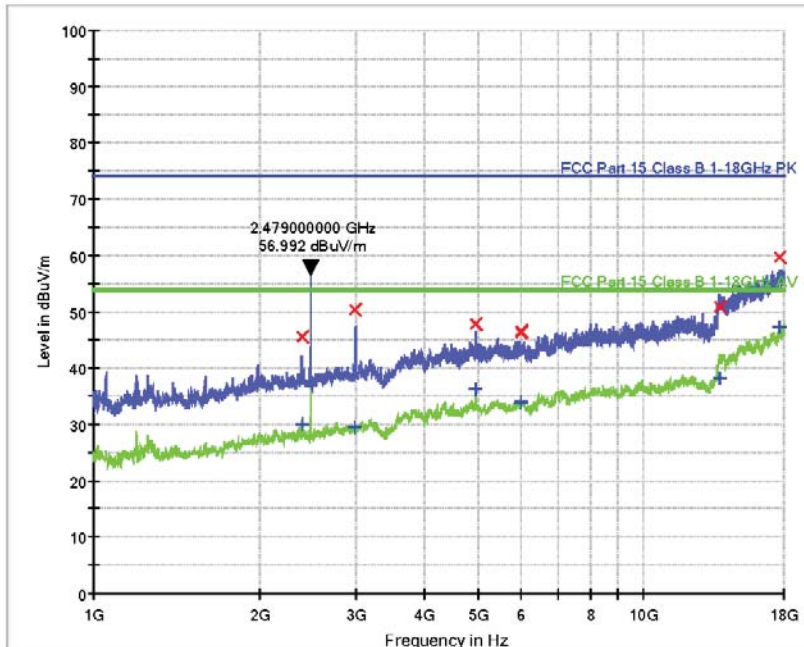
EMC Test Record (Emission)

Common Information

| | |
|---------------------|--------------------------------|
| Manufacturer: | Ring LLC |
| Test Item: | Floodlight Battery |
| Identification: | 5B21S8 |
| Test Standard: | CFR Title 47 Part 15C |
| Test Detail: | Transmitter spurious |
| Operation Mode: | HIGH:2480 MHz |
| Climate Condition: | 22 °C; 50 %RH; 101 kPa |
| Test Voltage/Freq.: | DC 6 V |
| Receive No.: | / |
| Report No.: | / |
| Result: | Pass |
| Comment: | Test distance is 3m;Horizontal |

| | |
|------------------|----------------------------------------|
| Subrange 1 | |
| Frequency range: | 1GHz-18GHz |
| Receiver: | TUV FSP30 |
| Transducer: | TUV SAC HF907/ TUV FSP30-TUV SAC HF907 |

EMCTT_EREFO11-A02-05_1GHz-18GHz_With PreAMP EXT



Tested by: *Chris Liang* 20190103
Reviewed by: *Jacky Chen* 20190104

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

| Frequency (MHz) | MaxPeak (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 2394.000000 | 45.5 | 1000.0 | 1000.000 | H | -11.6 | 28.5 | 74.0 | |
| 2995.500000 | 50.3 | 1000.0 | 1000.000 | H | -9.8 | 23.7 | 74.0 | |
| 4959.000000 | 47.8 | 1000.0 | 1000.000 | H | -5.1 | 26.2 | 74.0 | |
| 6000.000000 | 46.3 | 1000.0 | 1000.000 | H | -4.1 | 27.7 | 74.0 | |
| 13805.000000 | 51.0 | 1000.0 | 1000.000 | H | 5.1 | 23.0 | 74.0 | |
| 17679.000000 | 59.8 | 1000.0 | 1000.000 | H | 11.4 | 14.2 | 74.0 | |

Limit and Margin AV

| Frequency (MHz) | Average (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 2394.000000 | 30.1 | 1000.0 | 1000.000 | H | -11.6 | 23.9 | 54.0 | |
| 2995.500000 | 29.6 | 1000.0 | 1000.000 | H | -9.8 | 24.4 | 54.0 | |
| 4959.000000 | 36.3 | 1000.0 | 1000.000 | H | -5.1 | 17.8 | 54.0 | |
| 6000.000000 | 33.9 | 1000.0 | 1000.000 | H | -4.1 | 20.2 | 54.0 | |
| 13805.000000 | 38.2 | 1000.0 | 1000.000 | H | 5.1 | 15.8 | 54.0 | |
| 17679.000000 | 47.3 | 1000.0 | 1000.000 | H | 11.4 | 6.7 | 54.0 | |

Tested by: *Chris Liang* 20190103
Reviewed by: *Jacky Chen* 20190104

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391 188

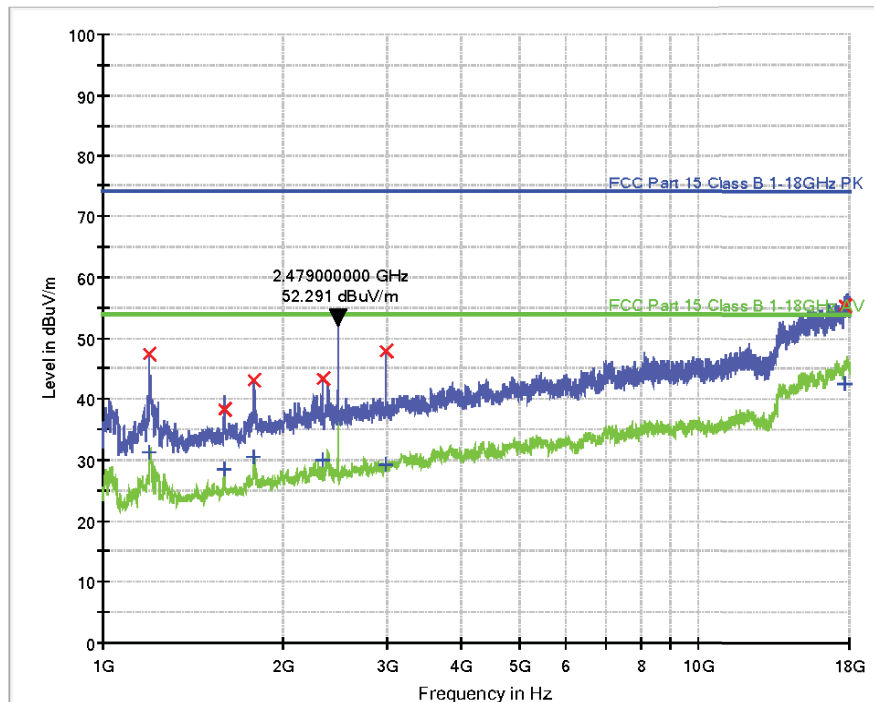
EMC Test Record (Emission)

Common Information

| | |
|---------------------|------------------------------|
| Manufacturer: | Ring LLC |
| Test Item: | Floodlight Battery |
| Identification: | 5B21S8 |
| Test Standard: | CFR Title 47 Part 15C |
| Test Detail: | Transmitter spurious |
| Operation Mode: | HIGH:2480 MHz |
| Climate Condition: | 22 °C; 50 %RH; 101 kPa |
| Test Voltage/Freq.: | DC 6 V |
| Receive No.: | / |
| Report No.: | / |
| Result: | Pass |
| Comment: | Test distance is 3m;Vertical |

Subrange 1
Frequency range: 1GHz-18GHz
Receiver: TUV FSP30
Transducer: TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-05_1GHz-18GHz_With PreAMP EXT



sTested by: *Chris Liang* 20190103
Reviewed by: *Jacky Chen* 20190104

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

| Frequency (MHz) | MaxPeak (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 1195.000000 | 47.4 | 1000.0 | 1000.000 | V | -15.7 | 26.6 | 74.0 | |
| 1599.000000 | 38.3 | 1000.0 | 1000.000 | V | -13.7 | 35.7 | 74.0 | |
| 1790.000000 | 43.1 | 1000.0 | 1000.000 | V | -12.3 | 30.9 | 74.0 | |
| 2345.000000 | 43.4 | 1000.0 | 1000.000 | V | -12.5 | 30.6 | 74.0 | |
| 2987.000000 | 47.8 | 1000.0 | 1000.000 | V | -8.8 | 26.2 | 74.0 | |
| 17666.000000 | 55.3 | 1000.0 | 1000.000 | V | 11.4 | 18.7 | 74.0 | |

Limit and Margin AV

| Frequency (MHz) | Average (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 1195.000000 | 31.3 | 1000.0 | 1000.000 | V | -15.7 | 22.7 | 54.0 | |
| 1599.000000 | 28.5 | 1000.0 | 1000.000 | V | -13.7 | 25.5 | 54.0 | |
| 1790.000000 | 30.5 | 1000.0 | 1000.000 | V | -12.3 | 23.6 | 54.0 | |
| 2345.000000 | 29.9 | 1000.0 | 1000.000 | V | -12.5 | 24.1 | 54.0 | |
| 2987.000000 | 29.3 | 1000.0 | 1000.000 | V | -8.8 | 24.7 | 54.0 | |
| 17666.000000 | 42.6 | 1000.0 | 1000.000 | V | 11.4 | 11.4 | 54.0 | |

sTested by: *Chris Liang* Reviewed by: *Jacky Chen*
20190103 20190104

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391 188

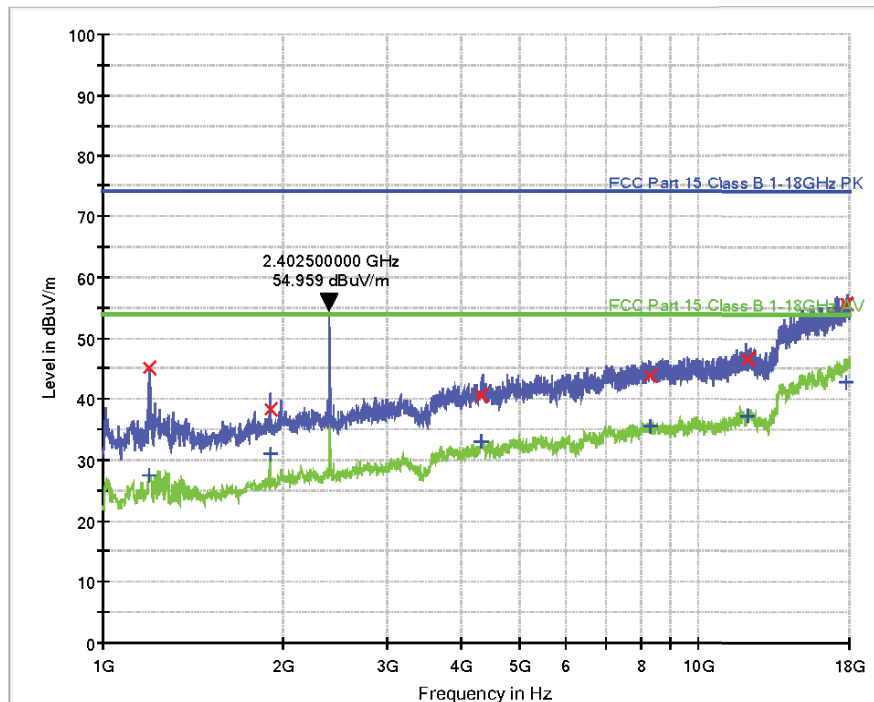
EMC Test Record (Emission)

Common Information

| | |
|---------------------|--------------------------------|
| Manufacturer: | Ring LLC |
| Test Item: | Floodlight Battery |
| Identification: | 5B21S8 |
| Test Standard: | CFR Title 47 Part 15C |
| Test Detail: | Transmitter spurious |
| Operation Mode: | LOW:2402 MHz |
| Climate Condition: | 22 °C; 50 %RH; 101 kPa |
| Test Voltage/Freq.: | DC 6 V |
| Receive No.: | / |
| Report No.: | / |
| Result: | Pass |
| Comment: | Test distance is 3m;Horizontal |

Subrange 1
Frequency range: 1GHz-18GHz
Receiver: TUV FSP30
Transducer: TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-05_1GHz-18GHz_With PreAMP EXT



Tested by: *Chris Liang* 20190103
Reviewed by: *Jacky Chen* 20190104

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

| Frequency (MHz) | MaxPeak (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 1195.000000 | 45.2 | 1000.0 | 1000.000 | H | -15.7 | 28.8 | 74.0 | |
| 1907.000000 | 38.2 | 1000.0 | 1000.000 | H | -11.8 | 35.8 | 74.0 | |
| 4313.000000 | 40.6 | 1000.0 | 1000.000 | H | -5.2 | 33.4 | 74.0 | |
| 8321.000000 | 43.9 | 1000.0 | 1000.000 | H | 1.3 | 30.1 | 74.0 | |
| 12180.000000 | 46.7 | 1000.0 | 1000.000 | H | 4.7 | 27.3 | 74.0 | |
| 17739.000000 | 55.7 | 1000.0 | 1000.000 | H | 11.5 | 18.3 | 74.0 | |

Limit and Margin AV

| Frequency (MHz) | Average (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 1195.000000 | 27.4 | 1000.0 | 1000.000 | H | -15.7 | 26.6 | 54.0 | |
| 1907.000000 | 31.1 | 1000.0 | 1000.000 | H | -11.8 | 22.9 | 54.0 | |
| 4313.000000 | 32.9 | 1000.0 | 1000.000 | H | -5.2 | 21.1 | 54.0 | |
| 8321.000000 | 35.5 | 1000.0 | 1000.000 | H | 1.3 | 18.5 | 54.0 | |
| 12180.000000 | 37.4 | 1000.0 | 1000.000 | H | 4.7 | 16.6 | 54.0 | |
| 17739.000000 | 42.8 | 1000.0 | 1000.000 | H | 11.5 | 11.2 | 54.0 | |

Tested by:

Chris Liang

20190103

Reviewed by:

Jacky Chen

20190104

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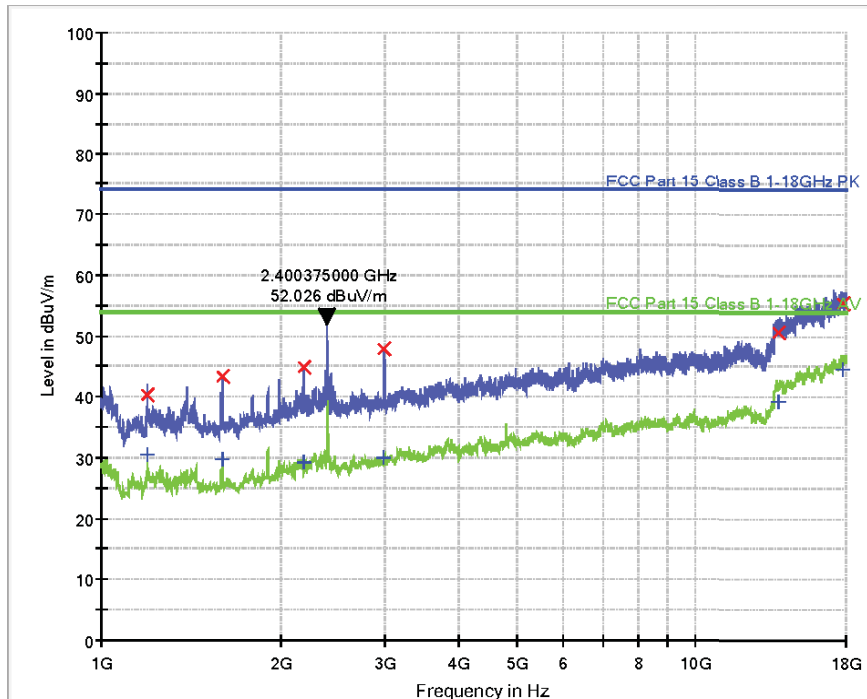
EMC Test Record (Emission)

Common Information

| | |
|---------------------|------------------------------|
| Manufacturer: | Ring LLC |
| Test Item: | Floodlight Battery |
| Identification: | 5B21S8 |
| Test Standard: | CFR Title 47 Part 15C |
| Test Detail: | Transmitter spurious |
| Operation Mode: | LOW:2402 MHz |
| Climate Condition: | 22 °C; 50 %RH; 101 kPa |
| Test Voltage/Freq.: | DC 6 V |
| Receive No.: | / |
| Report No.: | / |
| Result: | Pass |
| Comment: | Test distance is 3m;Vertical |

Subrange 1
Frequency range: 1GHz-18GHz
Receiver: TUV FSP30
Transducer: TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-05_1GHz-18GHz_With PreAMP EXT



Tested by:

Chris Liang

20190103

Reviewed by:

Jacky Chen

20190104

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391 188

Limit and Margin PK

| Frequency (MHz) | MaxPeak (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 1195.000000 | 40.2 | 1000.0 | 1000.000 | V | -15.7 | 33.8 | 74.0 | |
| 1597.000000 | 43.2 | 1000.0 | 1000.000 | V | -13.6 | 30.8 | 74.0 | |
| 2196.000000 | 44.8 | 1000.0 | 1000.000 | V | 1.5 | 29.2 | 74.0 | |
| 2987.000000 | 47.9 | 1000.0 | 1000.000 | V | -8.8 | 26.1 | 74.0 | |
| 13835.000000 | 50.6 | 1000.0 | 1000.000 | V | 5.2 | 23.4 | 74.0 | |
| 17836.000000 | 55.3 | 1000.0 | 1000.000 | V | 11.3 | 18.7 | 74.0 | |

Limit and Margin AV

| Frequency (MHz) | Average (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 1195.000000 | 30.5 | 1000.0 | 1000.000 | V | -15.7 | 23.5 | 54.0 | |
| 1597.000000 | 29.7 | 1000.0 | 1000.000 | V | -13.6 | 24.3 | 54.0 | |
| 2196.000000 | 29.3 | 1000.0 | 1000.000 | V | 1.5 | 24.7 | 54.0 | |
| 2987.000000 | 30.1 | 1000.0 | 1000.000 | V | -8.8 | 23.9 | 54.0 | |
| 13835.000000 | 39.4 | 1000.0 | 1000.000 | V | 5.2 | 14.6 | 54.0 | |
| 17836.000000 | 44.5 | 1000.0 | 1000.000 | V | 11.3 | 9.5 | 54.0 | |

Tested by:

Chris Liang

20190103

Reviewed by:

Jacky Chen

20190104

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

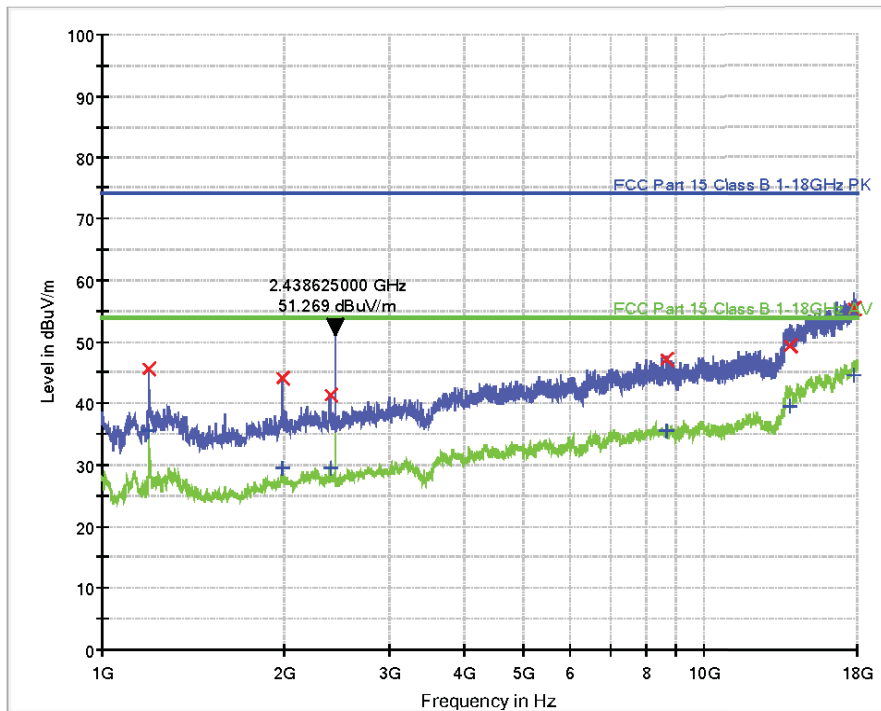
EMC Test Record (Emission)

Common Information

| | |
|---------------------|--------------------------------|
| Manufacturer: | Ring LLC |
| Test Item: | Floodlight Battery |
| Identification: | 5B21S8 |
| Test Standard: | CFR Title 47 Part 15C |
| Test Detail: | Transmitter spurious |
| Operation Mode: | MIDDLE:2440 MHz |
| Climate Condition: | 22 °C; 50 %RH; 101 kPa |
| Test Voltage/Freq.: | DC 6 V |
| Receive No.: | / |
| Report No.: | / |
| Result: | Pass |
| Comment: | Test distance is 3m;Horizontal |

| | |
|------------------|----------------------------------------|
| Subrange 1 | |
| Frequency range: | 1GHz-18GHz |
| Receiver: | TUV FSP30 |
| Transducer: | TUV SAC HF907/ TUV FSP30-TUV SAC HF907 |

EMCTT_EREFO11-A02-05_1GHz-18GHz_With PreAMP EXT



Tested by:

Chris Liang

20190103

Reviewed by:

Jacky Chen

20190104

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

| Frequency (MHz) | MaxPeak (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 1195.000000 | 45.6 | 1000.0 | 1000.000 | H | -15.7 | 28.4 | 74.0 | |
| 1994.000000 | 44.0 | 1000.0 | 1000.000 | H | -10.7 | 30.0 | 74.0 | |
| 2388.000000 | 41.4 | 1000.0 | 1000.000 | H | 21.0 | 32.7 | 74.0 | |
| 8678.000000 | 47.0 | 1000.0 | 1000.000 | H | 1.6 | 27.0 | 74.0 | |
| 13948.000000 | 49.4 | 1000.0 | 1000.000 | H | 5.9 | 24.7 | 74.0 | |
| 17768.000000 | 55.4 | 1000.0 | 1000.000 | H | 11.4 | 18.6 | 74.0 | |

Limit and Margin AV

| Frequency (MHz) | Average (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 1195.000000 | 35.5 | 1000.0 | 1000.000 | H | -15.7 | 18.5 | 54.0 | |
| 1994.000000 | 29.4 | 1000.0 | 1000.000 | H | -10.7 | 24.6 | 54.0 | |
| 2388.000000 | 29.4 | 1000.0 | 1000.000 | H | 21.0 | 24.6 | 54.0 | |
| 8678.000000 | 35.5 | 1000.0 | 1000.000 | H | 1.6 | 18.5 | 54.0 | |
| 13948.000000 | 39.6 | 1000.0 | 1000.000 | H | 5.9 | 14.4 | 54.0 | |
| 17768.000000 | 44.7 | 1000.0 | 1000.000 | H | 11.4 | 9.4 | 54.0 | |

Tested by:

Chris Liang

Reviewed by:

Jacky Chen

20190103

20190104

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

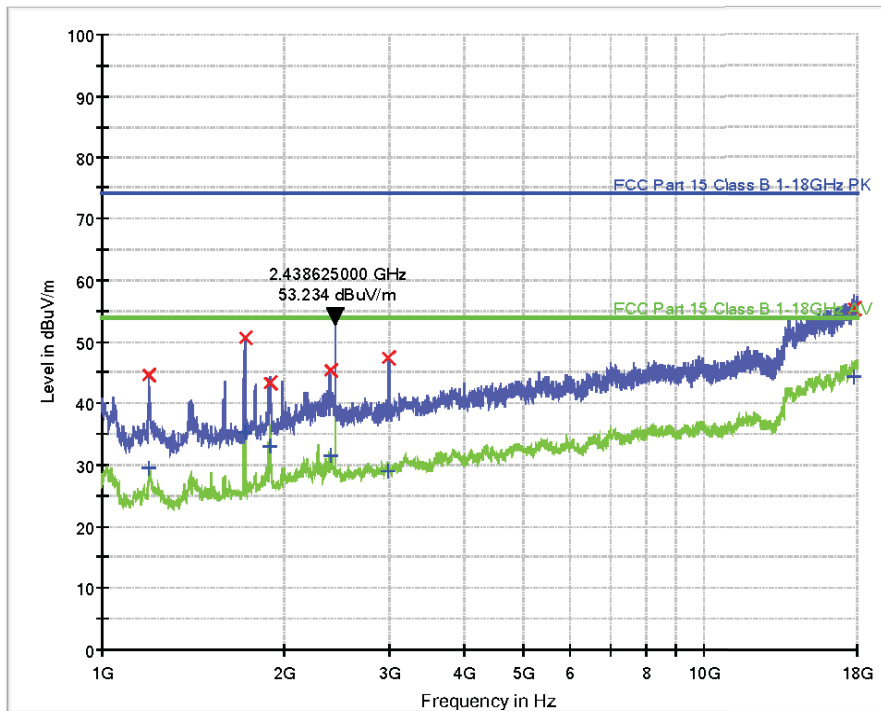
EMC Test Record (Emission)

Common Information

| | |
|---------------------|------------------------------|
| Manufacturer: | Ring LLC |
| Test Item: | Floodlight Battery |
| Identification: | 5B21S8 |
| Test Standard: | CFR Title 47 Part 15C |
| Test Detail: | Transmitter spurious |
| Operation Mode: | MIDDLE:2440 MHz |
| Climate Condition: | 22 °C; 50 %RH; 101 kPa |
| Test Voltage/Freq.: | DC 6 V |
| Receive No.: | / |
| Report No.: | / |
| Result: | Pass |
| Comment: | Test distance is 3m;Vertical |

| | |
|------------------|----------------------------------------|
| Subrange 1 | |
| Frequency range: | 1GHz-18GHz |
| Receiver: | TUV FSP30 |
| Transducer: | TUV SAC HF907/ TUV FSP30-TUV SAC HF907 |

EMCTT_EREFO11-A02-05_1GHz-18GHz_With PreAMP EXT



Tested by:

Chris Liang

20190103

Reviewed by:

Jacky Chen

20190104

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

| Frequency (MHz) | MaxPeak (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 1198.000000 | 44.6 | 1000.0 | 1000.000 | V | -15.6 | 29.4 | 74.0 | |
| 1725.000000 | 50.7 | 1000.0 | 1000.000 | V | -13.0 | 23.3 | 74.0 | |
| 1899.000000 | 43.4 | 1000.0 | 1000.000 | V | -11.8 | 30.6 | 74.0 | |
| 2384.000000 | 45.4 | 1000.0 | 1000.000 | V | 20.0 | 28.6 | 74.0 | |
| 2993.000000 | 47.4 | 1000.0 | 1000.000 | V | -8.8 | 26.7 | 74.0 | |
| 17824.000000 | 55.4 | 1000.0 | 1000.000 | V | 11.4 | 18.6 | 74.0 | |

Limit and Margin AV

| Frequency (MHz) | Average (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 1198.000000 | 29.5 | 1000.0 | 1000.000 | V | -15.6 | 24.5 | 54.0 | |
| 1725.000000 | 35.2 | 1000.0 | 1000.000 | V | -13.0 | 18.8 | 54.0 | |
| 1899.000000 | 33.0 | 1000.0 | 1000.000 | V | -11.8 | 21.0 | 54.0 | |
| 2384.000000 | 31.5 | 1000.0 | 1000.000 | V | 20.0 | 22.5 | 54.0 | |
| 2993.000000 | 29.1 | 1000.0 | 1000.000 | V | -8.8 | 24.9 | 54.0 | |
| 17824.000000 | 44.4 | 1000.0 | 1000.000 | V | 11.4 | 9.6 | 54.0 | |

Tested by:

Chris Liang

20190103

Reviewed by:

Jacky Chen

20190104

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

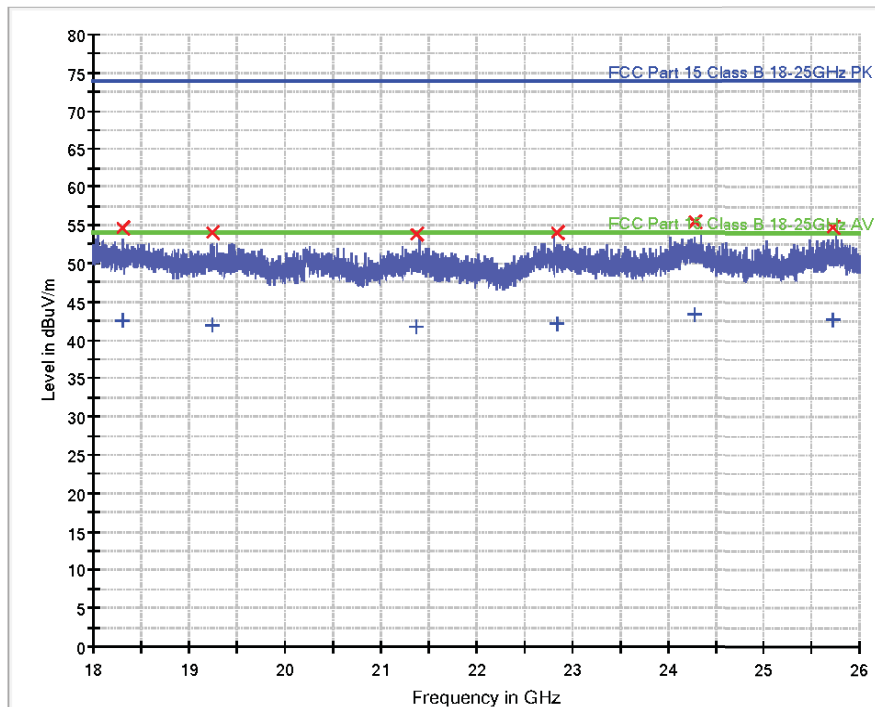
EMC Test Record (Emission)

Common Information

| | |
|---------------------|--------------------------------|
| Manufacturer: | Ring LLC |
| Test Item: | Floodlight Battery |
| Identification: | 5B21S8 |
| Test Standard: | CFR Title 47 Part 15C |
| Test Detail: | Transmitter spurious |
| Operation Mode: | HIGH:2480 MHz |
| Climate Condition: | 22 °C; 50 %RH; 101 kPa |
| Test Voltage/Freq.: | DC 6 V |
| Receive No.: | / |
| Report No.: | / |
| Result: | Pass |
| Comment: | Test distance is 3m;Horizontal |

| | |
|------------------|----------------------|
| Subrange 1 | |
| Frequency range: | 18GHz-26GHz |
| Receiver: | TUV FSP30 |
| Transducer: | TUV SAC Horn 3160-09 |

EMCTT_ERE011-A02-08_18GHz-25GHz_With PreAMP EXT



Tested by:

Chris Liang

20190103

Reviewed by:

Jacky Chen

20190104

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

| Frequency (MHz) | MaxPeak (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 18302.000000 | 54.7 | 1000.0 | 1000.000 | H | 8.0 | 19.3 | 74.0 | |
| 19237.000000 | 54.0 | 1000.0 | 1000.000 | H | 7.9 | 20.1 | 74.0 | |
| 21363.000000 | 53.7 | 1000.0 | 1000.000 | H | 7.2 | 20.3 | 74.0 | |
| 22831.000000 | 53.9 | 1000.0 | 1000.000 | H | 7.4 | 20.1 | 74.0 | |
| 24276.000000 | 55.3 | 1000.0 | 1000.000 | H | 7.7 | 18.7 | 74.0 | |
| 25721.000000 | 54.8 | 1000.0 | 1000.000 | H | 7.1 | 19.2 | 74.0 | |

Limit and Margin AV

| Frequency (MHz) | Average (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 18302.000000 | 42.5 | 1000.0 | 1000.000 | H | 8.0 | 11.5 | 54.0 | |
| 19237.000000 | 42.0 | 1000.0 | 1000.000 | H | 7.9 | 12.0 | 54.0 | |
| 21363.000000 | 41.8 | 1000.0 | 1000.000 | H | 7.2 | 12.3 | 54.0 | |
| 22831.000000 | 42.1 | 1000.0 | 1000.000 | H | 7.4 | 11.9 | 54.0 | |
| 24276.000000 | 43.3 | 1000.0 | 1000.000 | H | 7.7 | 10.8 | 54.0 | |
| 25721.000000 | 42.7 | 1000.0 | 1000.000 | H | 7.1 | 11.3 | 54.0 | |

Tested by:

Chris Liang

20190103

Reviewed by:

Jacky Chen

20190104

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

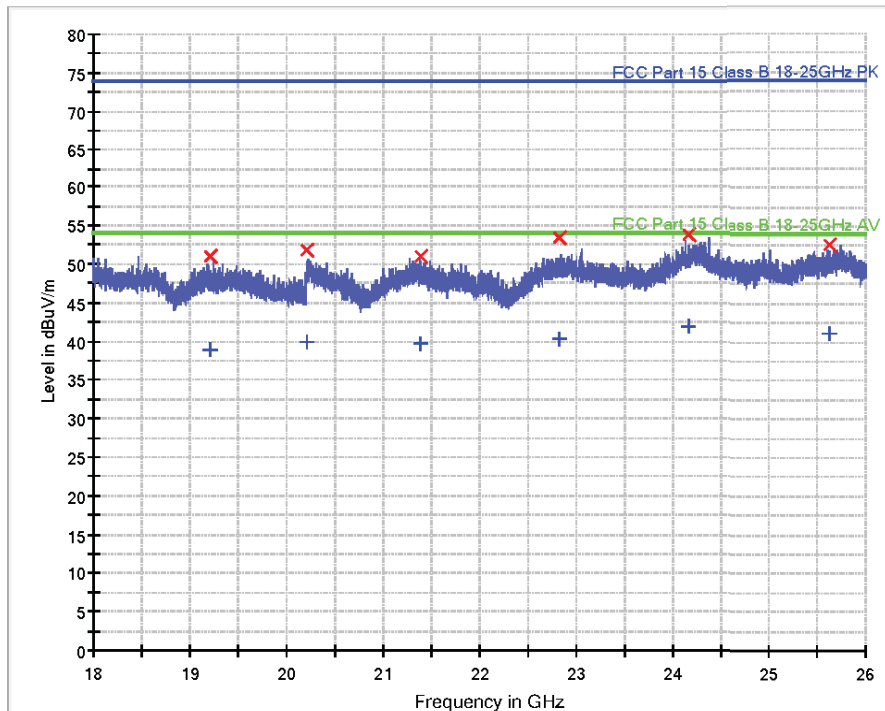
EMC Test Record (Emission)

Common Information

| | |
|---------------------|------------------------------|
| Manufacturer: | Ring LLC |
| Test Item: | Floodlight Battery |
| Identification: | 5B21S8 |
| Test Standard: | CFR Title 47 Part 15C |
| Test Detail: | Transmitter spurious |
| Operation Mode: | HIGH:2480 MHz |
| Climate Condition: | 22 °C; 50 %RH; 101 kPa |
| Test Voltage/Freq.: | DC 6 V |
| Receive No.: | / |
| Report No.: | / |
| Result: | Pass |
| Comment: | Test distance is 3m;Vertical |

| | |
|------------------|----------------------|
| Subrange 1 | |
| Frequency range: | 18GHz-26GHz |
| Receiver: | TUV FSP30 |
| Transducer: | TUV SAC Horn 3160-09 |

EMCTT_EREFO11-A02-08_18GHz-25GHz_With PreAMP EXT



Tested by: *Chris Liang* 20190103
Reviewed by: *Jacky Chen* 20190104

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

| Frequency (MHz) | MaxPeak (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 19206.000000 | 51.0 | 1000.0 | 1000.000 | V | 7.9 | 23.0 | 74.0 | |
| 20212.000000 | 51.9 | 1000.0 | 1000.000 | V | 7.7 | 22.1 | 74.0 | |
| 21395.000000 | 51.1 | 1000.0 | 1000.000 | V | 7.2 | 22.9 | 74.0 | |
| 22824.000000 | 53.4 | 1000.0 | 1000.000 | V | 7.4 | 20.7 | 74.0 | |
| 24161.000000 | 53.7 | 1000.0 | 1000.000 | V | 7.7 | 20.3 | 74.0 | |
| 25630.000000 | 52.7 | 1000.0 | 1000.000 | V | 7.0 | 21.4 | 74.0 | |

Limit and Margin AV

| Frequency (MHz) | Average (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 19206.000000 | 39.0 | 1000.0 | 1000.000 | V | 7.9 | 15.0 | 54.0 | |
| 20212.000000 | 40.0 | 1000.0 | 1000.000 | V | 7.7 | 14.0 | 54.0 | |
| 21395.000000 | 39.7 | 1000.0 | 1000.000 | V | 7.2 | 14.3 | 54.0 | |
| 22824.000000 | 40.4 | 1000.0 | 1000.000 | V | 7.4 | 13.7 | 54.0 | |
| 24161.000000 | 42.0 | 1000.0 | 1000.000 | V | 7.7 | 12.0 | 54.0 | |
| 25630.000000 | 41.0 | 1000.0 | 1000.000 | V | 7.0 | 13.0 | 54.0 | |

Tested by:

Chris Liang

20190103

Reviewed by:

Jacky Chen

20190104

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391 188

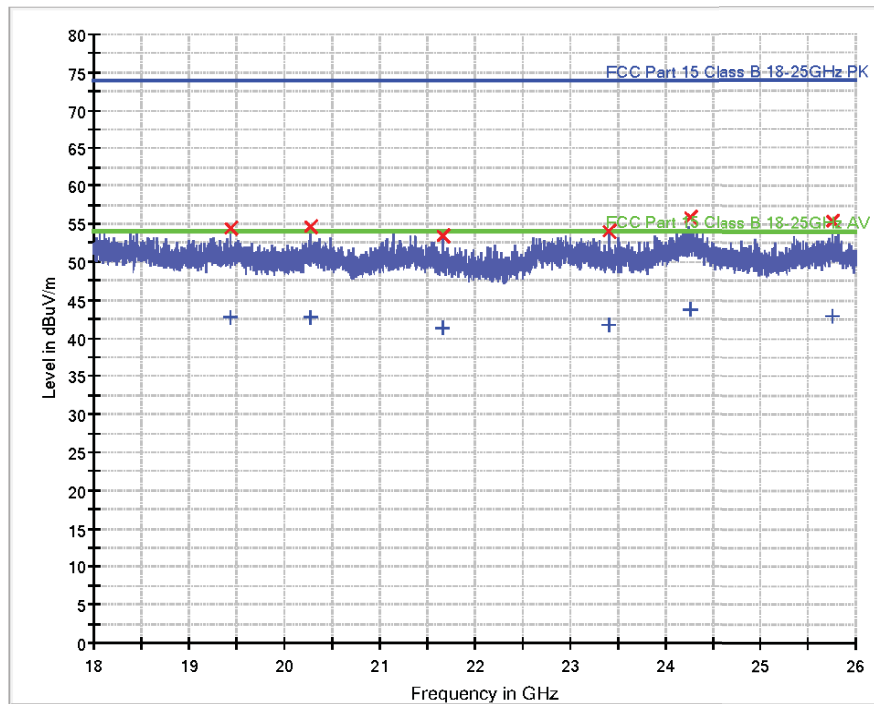
EMC Test Record (Emission)

Common Information

| | |
|---------------------|--------------------------------|
| Manufacturer: | Ring LLC |
| Test Item: | Floodlight Battery |
| Identification: | 5B21S8 |
| Test Standard: | CFR Title 47 Part 15C |
| Test Detail: | Transmitter spurious |
| Operation Mode: | LOW:2402 MHz |
| Climate Condition: | 22 °C; 50 %RH; 101 kPa |
| Test Voltage/Freq.: | DC 6 V |
| Receive No.: | / |
| Report No.: | / |
| Result: | Pass |
| Comment: | Test distance is 3m;Horizontal |

| | |
|------------------|----------------------|
| Subrange 1 | |
| Frequency range: | 18GHz-26GHz |
| Receiver: | TUV FSP30 |
| Transducer: | TUV SAC Horn 3160-09 |

EMCTT_EREFO11-A02-08_18GHz-25GHz_With PreAMP EXT



Tested by:

Chris Liang
20190103

Reviewed by:

Jacky Chen
20190104

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

| Frequency (MHz) | MaxPeak (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 19438.000000 | 54.3 | 1000.0 | 1000.000 | H | 7.9 | 19.7 | 74.0 | |
| 20268.000000 | 54.6 | 1000.0 | 1000.000 | H | 7.6 | 19.4 | 74.0 | |
| 21658.000000 | 53.5 | 1000.0 | 1000.000 | H | 6.9 | 20.5 | 74.0 | |
| 23407.000000 | 54.0 | 1000.0 | 1000.000 | H | 7.3 | 20.0 | 74.0 | |
| 24256.000000 | 55.9 | 1000.0 | 1000.000 | H | 7.7 | 18.1 | 74.0 | |
| 25755.000000 | 55.4 | 1000.0 | 1000.000 | H | 7.1 | 18.6 | 74.0 | |

Limit and Margin AV

| Frequency (MHz) | Average (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 19438.000000 | 42.7 | 1000.0 | 1000.000 | H | 7.9 | 11.3 | 54.0 | |
| 20268.000000 | 42.7 | 1000.0 | 1000.000 | H | 7.6 | 11.3 | 54.0 | |
| 21658.000000 | 41.3 | 1000.0 | 1000.000 | H | 6.9 | 12.7 | 54.0 | |
| 23407.000000 | 41.6 | 1000.0 | 1000.000 | H | 7.3 | 12.4 | 54.0 | |
| 24256.000000 | 43.8 | 1000.0 | 1000.000 | H | 7.7 | 10.2 | 54.0 | |
| 25755.000000 | 43.0 | 1000.0 | 1000.000 | H | 7.1 | 11.1 | 54.0 | |

Tested by:

Chris Liang

20190103

Reviewed by:

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20190104

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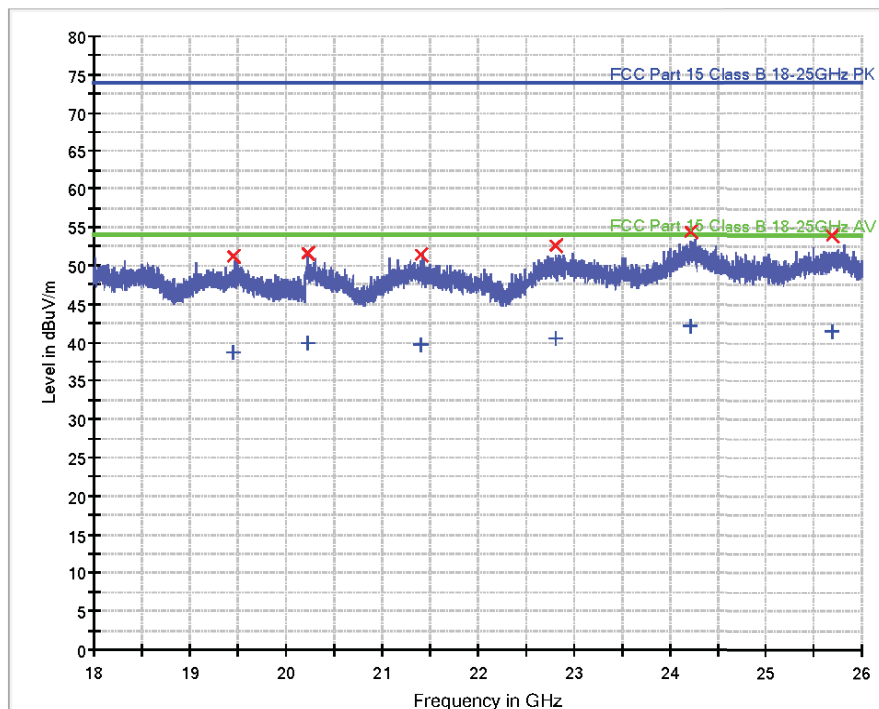
EMC Test Record (Emission)

Common Information

| | |
|---------------------|------------------------------|
| Manufacturer: | Ring LLC |
| Test Item: | Floodlight Battery |
| Identification: | 5B21S8 |
| Test Standard: | CFR Title 47 Part 15C |
| Test Detail: | Transmitter spurious |
| Operation Mode: | LOW:2402 MHz |
| Climate Condition: | 22 °C; 50 %RH; 101 kPa |
| Test Voltage/Freq.: | DC 6 V |
| Receive No.: | / |
| Report No.: | / |
| Result: | Pass |
| Comment: | Test distance is 3m;Vertical |

| | |
|------------------|----------------------|
| Subrange 1 | |
| Frequency range: | 18GHz-26GHz |
| Receiver: | TUV FSP30 |
| Transducer: | TUV SAC Horn 3160-09 |

EMCTT_ERE011-A02-08_18GHz-25GHz_With PreAMP EXT



Tested by: *Chris Liang* 20190103
Reviewed by: *Jacky Chen* 20190104

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

| Frequency (MHz) | MaxPeak (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 19450.000000 | 51.2 | 1000.0 | 1000.000 | V | 7.9 | 22.8 | 74.0 | |
| 20231.000000 | 51.6 | 1000.0 | 1000.000 | V | 7.7 | 22.4 | 74.0 | |
| 21405.000000 | 51.5 | 1000.0 | 1000.000 | V | 7.2 | 22.6 | 74.0 | |
| 22814.000000 | 52.6 | 1000.0 | 1000.000 | V | 7.4 | 21.4 | 74.0 | |
| 24217.000000 | 54.3 | 1000.0 | 1000.000 | V | 7.7 | 19.7 | 74.0 | |
| 25695.000000 | 54.1 | 1000.0 | 1000.000 | V | 7.0 | 19.9 | 74.0 | |

Limit and Margin AV

| Frequency (MHz) | Average (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 19450.000000 | 38.7 | 1000.0 | 1000.000 | V | 7.9 | 15.3 | 54.0 | |
| 20231.000000 | 39.9 | 1000.0 | 1000.000 | V | 7.7 | 14.1 | 54.0 | |
| 21405.000000 | 39.7 | 1000.0 | 1000.000 | V | 7.2 | 14.3 | 54.0 | |
| 22814.000000 | 40.4 | 1000.0 | 1000.000 | V | 7.4 | 13.6 | 54.0 | |
| 24217.000000 | 42.1 | 1000.0 | 1000.000 | V | 7.7 | 11.9 | 54.0 | |
| 25695.000000 | 41.6 | 1000.0 | 1000.000 | V | 7.0 | 12.4 | 54.0 | |

Tested by:

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Reviewed by:

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20190104

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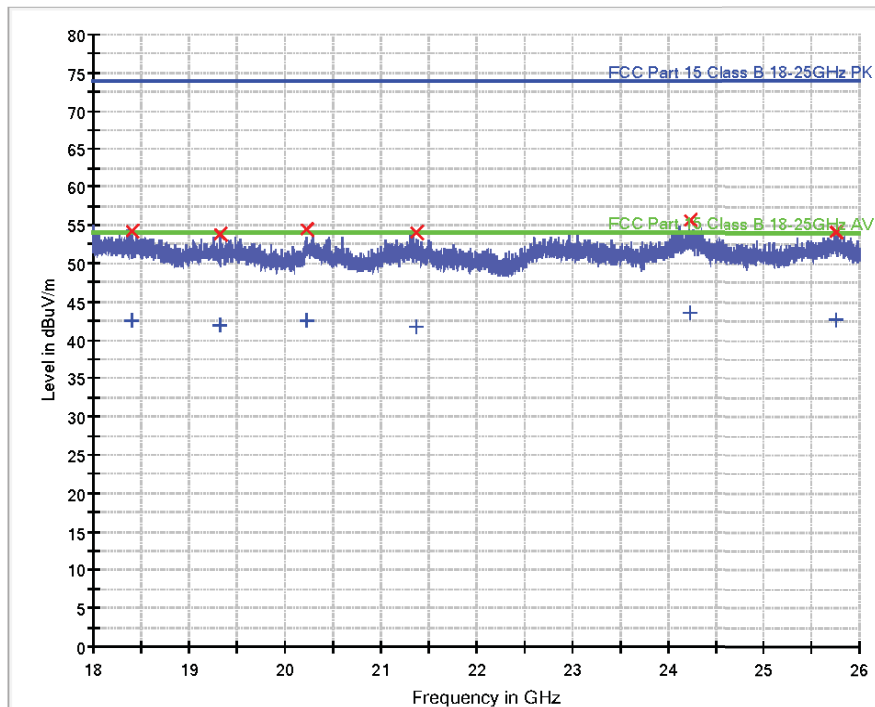
EMC Test Record (Emission)

Common Information

| | |
|---------------------|--------------------------------|
| Manufacturer: | Ring LLC |
| Test Item: | Floodlight Battery |
| Identification: | 5B21S8 |
| Test Standard: | CFR Title 47 Part 15C |
| Test Detail: | Transmitter spurious |
| Operation Mode: | MIDDLE:2440 MHz |
| Climate Condition: | 22 °C; 50 %RH; 101 kPa |
| Test Voltage/Freq.: | DC 6 V |
| Receive No.: | / |
| Report No.: | / |
| Result: | Pass |
| Comment: | Test distance is 3m;Horizontal |

| | |
|------------------|----------------------|
| Subrange 1 | |
| Frequency range: | 18GHz-26GHz |
| Receiver: | TUV FSP30 |
| Transducer: | TUV SAC Horn 3160-09 |

EMCTT_ERE011-A02-08_18GHz-25GHz_With PreAMP EXT



Tested by: *Chris Liang* 20190103
Reviewed by: *Jacky Chen* 20190104

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin QP

| Frequency (MHz) | MaxPeak (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 18404.000000 | 54.2 | 1000.0 | 1000.000 | H | 8.1 | 19.8 | 74.0 | |
| 19329.000000 | 53.9 | 1000.0 | 1000.000 | H | 7.9 | 20.1 | 74.0 | |
| 20219.000000 | 54.4 | 1000.0 | 1000.000 | H | 7.7 | 19.6 | 74.0 | |
| 21366.000000 | 54.0 | 1000.0 | 1000.000 | H | 7.2 | 20.0 | 74.0 | |
| 24233.000000 | 55.5 | 1000.0 | 1000.000 | H | 7.7 | 18.5 | 74.0 | |
| 25759.000000 | 54.2 | 1000.0 | 1000.000 | H | 7.1 | 19.8 | 74.0 | |

Limit and Margin AV

| Frequency (MHz) | Average (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 18404.000000 | 42.6 | 1000.0 | 1000.000 | H | 8.1 | 11.4 | 54.0 | |
| 19329.000000 | 42.0 | 1000.0 | 1000.000 | H | 7.9 | 12.0 | 54.0 | |
| 20219.000000 | 42.5 | 1000.0 | 1000.000 | H | 7.7 | 11.5 | 54.0 | |
| 21366.000000 | 41.8 | 1000.0 | 1000.000 | H | 7.2 | 12.2 | 54.0 | |
| 24233.000000 | 43.5 | 1000.0 | 1000.000 | H | 7.7 | 10.6 | 54.0 | |
| 25759.000000 | 42.7 | 1000.0 | 1000.000 | H | 7.1 | 11.3 | 54.0 | |

Tested by:

Chris Liang

Reviewed by:

Jacky Chen

20190103

20190104

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

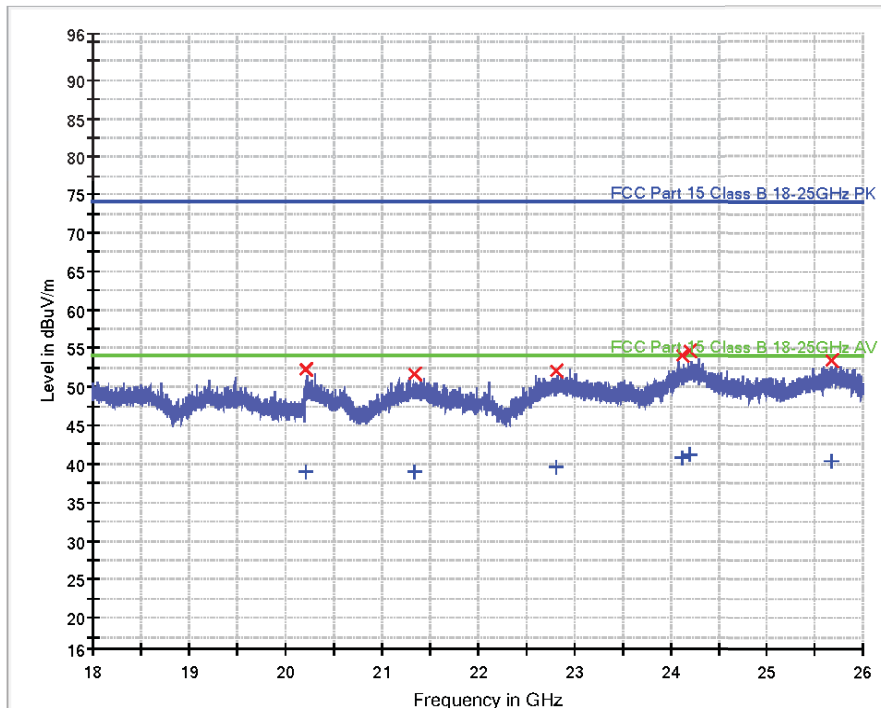
EMC Test Record (Emission)

Common Information

| | |
|---------------------|------------------------------|
| Manufacturer: | Ring LLC |
| Test Item: | Floodlight Battery |
| Identification: | 5B21S8 |
| Test Standard: | CFR Title 47 Part 15C |
| Test Detail: | Transmitter spurious |
| Operation Mode: | MIDDLE:2440 MHz |
| Climate Condition: | 22 °C; 50 %RH; 101 kPa |
| Test Voltage/Freq.: | DC 6 V |
| Receive No.: | / |
| Report No.: | / |
| Result: | Pass |
| Comment: | Test distance is 3m;Vertical |

| | |
|------------------|----------------------|
| Subrange 1 | |
| Frequency range: | 18GHz-26GHz |
| Receiver: | TUV FSP30 |
| Transducer: | TUV SAC Horn 3160-09 |

EMCTT_EREFO11-A02-08_18GHz-25GHz_With PreAMP EXT



Tested by: *Chris Liang* 20190103
Reviewed by: *Jacky Chen* 20190104

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Limit and Margin PK

| Frequency (MHz) | MaxPeak (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 20205.000000 | 52.3 | 1000.0 | 1000.000 | V | 7.7 | 21.8 | 74.0 | |
| 21343.000000 | 51.7 | 1000.0 | 1000.000 | V | 7.2 | 22.3 | 74.0 | |
| 22803.000000 | 52.0 | 1000.0 | 1000.000 | V | 7.4 | 22.0 | 74.0 | |
| 24110.000000 | 53.4 | 1000.0 | 1000.000 | V | 7.8 | 20.6 | 74.0 | |
| 24197.000000 | 54.7 | 1000.0 | 1000.000 | V | 7.7 | 19.3 | 74.0 | |
| 25673.000000 | 53.5 | 1000.0 | 1000.000 | V | 7.0 | 20.6 | 74.0 | |

Limit and Margin AV

| Frequency (MHz) | Average (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBuV/m) | Comment |
|-----------------|------------------|-----------------|-----------------|-----|------------|-------------------|----------------------|---------|
| 20205.000000 | 39.1 | 1000.0 | 1000.000 | V | 7.7 | 14.9 | 54.0 | |
| 21343.000000 | 38.9 | 1000.0 | 1000.000 | V | 7.2 | 15.1 | 54.0 | |
| 22803.000000 | 39.5 | 1000.0 | 1000.000 | V | 7.4 | 14.5 | 54.0 | |
| 24110.000000 | 40.7 | 1000.0 | 1000.000 | V | 7.8 | 13.3 | 54.0 | |
| 24197.000000 | 41.2 | 1000.0 | 1000.000 | V | 7.7 | 12.9 | 54.0 | |
| 25673.000000 | 40.5 | 1000.0 | 1000.000 | V | 7.0 | 13.5 | 54.0 | |

Tested by:

Chris Liang

20190103

Reviewed by:

Jacky Chen

20190104