# APPLICATION CERTIFICATION FCC Part 15C & RSS-210
On Behalf of
GODOX Photo Equipment Co.,Ltd

Pioneering TTL Li-ion Camera Flash
Model No.: V350S, V350F, V350O, V350N, V350C, V350P

FCC ID: 2ABYNV350
IC : 20034-V350

| | | |
|---|---|---|
| Prepared for | : | GODOX Photo Equipment Co.,Ltd |
| Address | : | 19th Floor, Room 1902, Building Jinshan, 5033 Shennan East Road, Luohu District, Shenzhen 518001, China |
| Prepared by | : | Shenzhen Accurate Technology Co., Ltd. |
| Address | : | 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.<br><br>Tel: (0755) 26503290<br>Fax: (0755) 26503396 |

| | | |
|---|---|---|
| Report Number | : | ATE20180387 |
| Date of Test | : | March 13-March 16, 2018 |
| Date of Report | : | March 20, 2018 |

# TABLE OF CONTENTS

Description Page

# Test Report Certification

| | | |
|---|---|---|
| Applicant | : | GODOX Photo Equipment Co.,Ltd |
| Manufacturer | : | GODOX Photo Equipment Co.,Ltd |
| Product | : | Pioneering TTL Li-ion Camera Flash |
| Model No. | : | V350S, V350F, V350O, V350N, V350C, V350P |
| Trade name | : | Godox |

Measurement Procedure Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.249**
**ANSI C63.10: 2013**
**RSS-210 Issue 9, August 2016**
**RSS-Gen Issue 4 November 2014**

The EUT was tested according to FCC 47CFR 15.249 for compliance to FCC 47CFR 15.249 requirements

The device described above is tested by Shenzhen Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.249 and RSS-210 limits. The measurement results are contained in this test report and Shenzhen Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Accurate Technology Co., Ltd.

Date of Test : March 13-March 16, 2018
Date of Report : March 20, 2018

Prepared by : (Stanley Yang, Engineer)

Approved & Authorized Signer : (Sean Liu, Manager)

# 1. GENERAL INFORMATION

## 1.1. Description of Device (EUT)

| | | |
|---|---|---|
| EUT | : | Pioneering TTL Li-ion Camera Flash |
| Model No. | : | V350S, V350F, V350O, V350N, V350C, V350P |
| HVIN | : | V350S, V350F, V350O, V350N, V350C, V350P |
| Power Supply | : | DC 7.2V (Powered by Lithium battery) |
| Operate Frequency | : | 2412.999634- 2437.999878MHz |
| Number of channel | : | 16 |
| Chanel spacing | : | 1.5MHz |
| Modulation mode | : | MSK |
| Antenna Gain | : | -0.7dBi |
| Antenna type | : | PCB Antenna |
| Applicant | : | GODOX Photo Equipment Co.,Ltd |
| Address | : | 19th Floor, Room 1902, Building Jinshan, 5033 Shennan East Road, Luohu District, Shenzhen 518001, China |
| Manufacturer | : | GODOX Photo Equipment Co.,Ltd |
| Address | : | 19th Floor, Room 1902, Building Jinshan, 5033 Shennan East Road, Luohu District, Shenzhen 518001, China |
| Date of sample received | : | March 10, 2018 |
| Date of Test | : | March 13-March 16, 2018 |

## 1.2. Model difference declaration

V350S, V350F, V350O, V350N, V350C, V350P are identical in PCB motherboard, driver IC, RF module and Enclosure, The only difference is the bottom of the shoe, So we only tested the V350S.

## 1.3. Special Accessory and Auxiliary Equipment

N/A

## 1.4. Description of Test Facility

EMC Lab : Recognition of accreditation by Federal Communications Commission (FCC)
The Designation Number is CN1189
The Registration Number is 708358

Listed by Innovation, Science and Economic Development Canada (ISEDC)
The Registration Number is 5077A-2

Accredited by China National Accreditation Service for Conformity Assessment (CNAS)
The Registration Number is CNAS L3193

Accredited by American Association for Laboratory Accreditation (A2LA)
The Certificate Number is 4297.01

Name of Firm : Shenzhen Accurate Technology Co., Ltd.
Site Location : 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

## 1.5. Measurement Uncertainty

| | | |
|---|---|---|
| Conducted Emission Expanded Uncertainty | = | 2.23dB, k=2 |
| Radiated emission expanded uncertainty (9kHz-30MHz) | = | 3.08dB, k=2 |
| Radiated emission expanded uncertainty (30MHz-1000MHz) | = | 4.42dB, k=2 |
| Radiated emission expanded uncertainty (Above 1GHz) | = | 4.06dB, k=2 |

# 2. MEASURING DEVICE AND TEST EQUIPMENT

**Table 1: List of Test and Measurement Equipment**

| Kind of equipment | Manufacturer | Type | S/N | Calibrated dates | Cal. Interval |
|---|---|---|---|---|---|
| EMI Test Receiver | Rohde&Schwarz | ESCS30 | 100307 | Jan. 06, 2018 | One Year |
| EMI Test Receiver | Rohde&Schwarz | ESPI3 | 101526/003 | Jan. 06, 2018 | One Year |
| Spectrum Analyzer | Agilent | E7405A | MY45115511 | Jan. 06, 2018 | One Year |
| Pre-Amplifier | Rohde&Schwarz | CBLU1183540-01 | 3791 | Jan. 06, 2018 | One Year |
| Loop Antenna | Schwarzbeck | FMZB1516 | 1516131 | Jan. 06, 2018 | One Year |
| Bilog Antenna | Schwarzbeck | VULB9163 | 9163-323 | Jan. 06, 2018 | One Year |
| Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-655 | Jan. 06, 2018 | One Year |
| Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-1067 | Jan. 06, 2018 | One Year |
| LISN | Rohde&Schwarz | ESH3-Z5 | 100305 | Jan. 06, 2018 | One Year |
| LISN | Schwarzbeck | NSLK8126 | 8126431 | Jan. 06, 2018 | One Year |
| Highpass Filter | Wainwright Instruments | WHKX3.6/18G-10SS | N/A | Jan. 06, 2018 | One Year |
| Band Reject Filter | Wainwright Instruments | WRCG2400/2485-2375/2510-60/11SS | N/A | Jan. 06, 2018 | One Year |

# 3. OPERATION OF EUT DURING TESTING

## 3.1.Operating Mode

The mode is used: **Transmitting mode**

Low Channel: 2412.999634MHz
Middle Channel: 2424.5MHz
High Channel: 2437.999878MHz

## 3.2.Configuration and peripherals

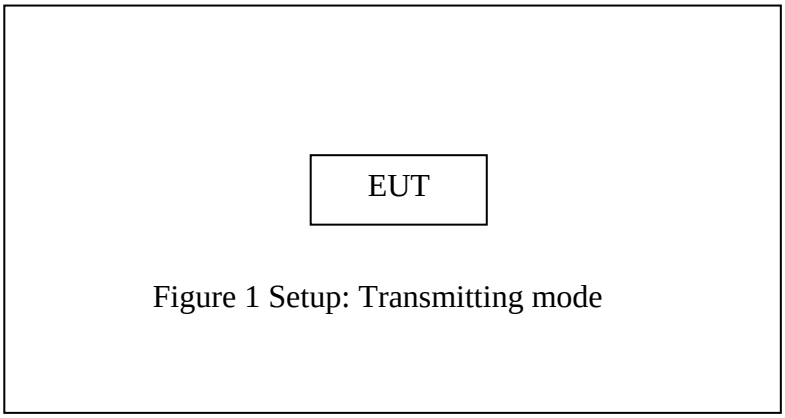


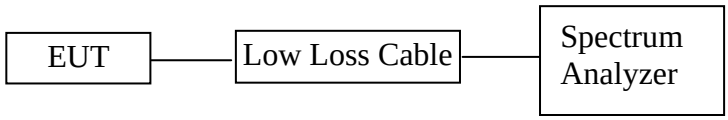

Figure 1 Setup: Transmitting mode

# 4. TEST PROCEDURES AND RESULTS

| FCC Rules | Description of Test | Result |
|---|---|---|
| Section 15.215(c) | 20dB Bandwidth | Compliant |
| RSS-Gen Section 6.6 | 99% Bandwidth | Compliant |
| Section 15.249(d)<br>RSS-Gen 8.10 | Band Edge Compliance Test | Compliant |
| Section 15.205(a),<br>Section 15.209(a),<br>Section 15.249,<br>Section 15.35<br>RSS-210 Annex B B.10<br>RSS-Gen 6.13<br>RSS-Gen 8.9 | Radiated Spurious Emission Test | Compliant |
| Section 15.207<br>RSS-Gen Section 8.8 | AC Power Line Conducted Emission Test | Compliant |
| Section 15.203<br>RSS-Gen 8.3 | Antenna Requirement | Compliant |

# 5. 20DB BANDWIDTH MEASUREMENT

## 5.1.Block Diagram of Test Setup




(EUT: Pioneering TTL Li-ion Camera Flash)

## 5.2.The Requirement For Section 15.215(c)

The bandwidth of a frequency hopping channel is the 20 dB emission bandwidth, measured with the hopping stopped. The system RF bandwidth is equal to the channel bandwidth multiplied by the number of channels in the hopset. The hopset shall be such that the near-term distribution of frequencies appears random, with sequential hops randomly distributed in both direction and magnitude of change in the hopset while the long-term distribution appears evenly distributed.

## 5.3.Operating Condition of EUT

5.3.1.Setup the EUT and simulator as shown as Section 5.1.

5.3.2.Turn on the power of all equipment.

5.3.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412.999634, 2424.5, 2437.999878MHz.

## 5.4.Test Procedure

5.4.1.Place the EUT on the table and set it in transmitting mode.

5.4.2.Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

5.4.3.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz, Detector function=peak, Trace=max hold, Sweep=auto.

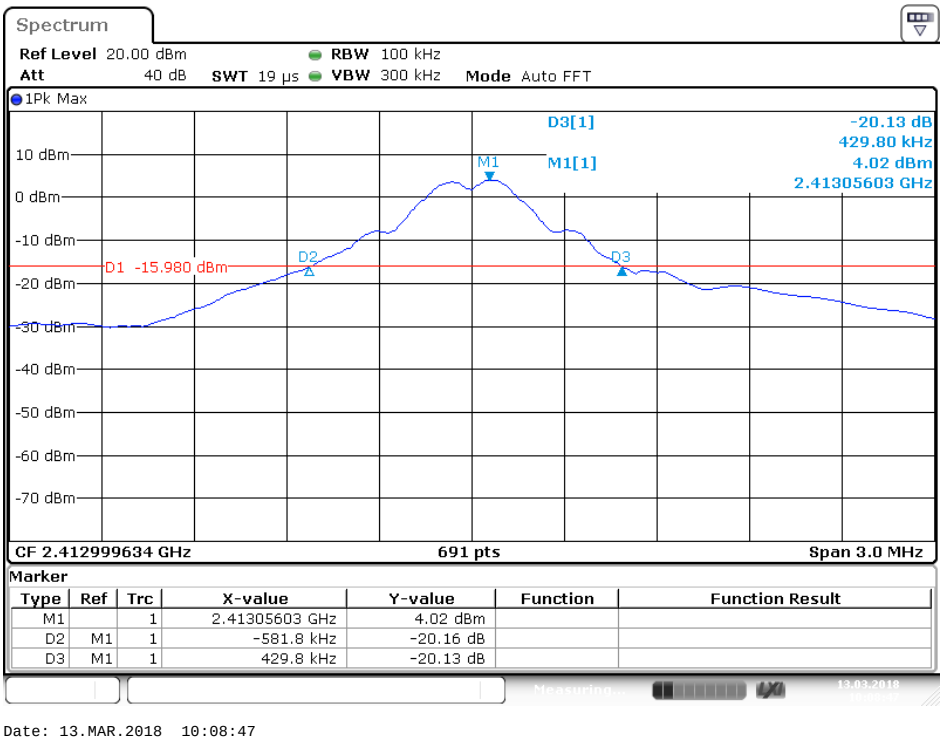
5.4.4.Set the measured low, middle and high frequency and test 20dB bandwidth with spectrum analyzer.

## 5.5.Test Result

| Channel | Frequency(MHz) | 20 dB Bandwidth(MHz) |
|---|---|---|
| Low | 2412.999634 | 1.0116 |
| Middle | 2424.500000 | 1.1592 |
| High | 2437.999878 | 1.2677 |

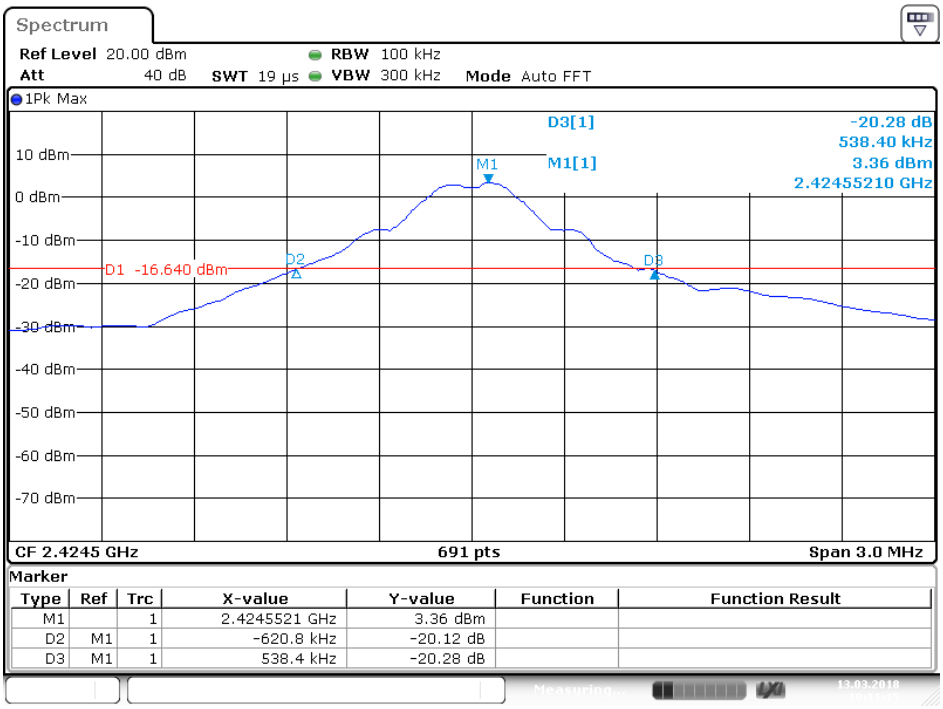
The spectrum analyzer plots are attached as below.

*Low channel*



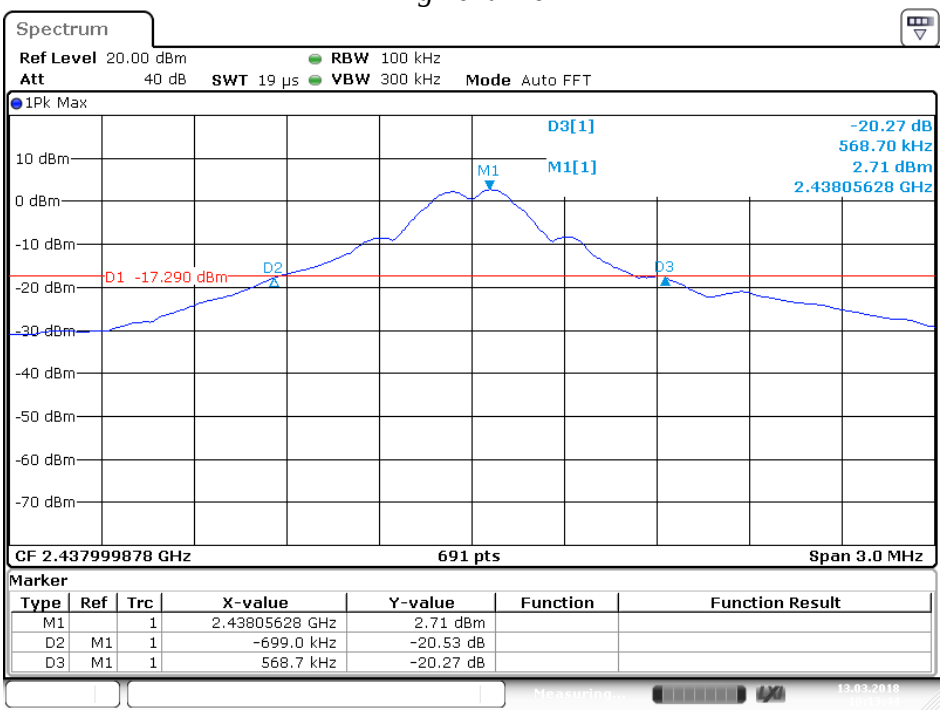

Date: 13.MAR.2018 10:08:47

*Middle channel*




Date: 13.MAR.2018 10:11:15

*High channel*

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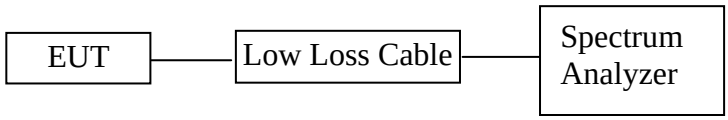
# 6. 99% OCCUPIED BANDWIDTH

## 6.1.Block Diagram of Test Setup




(EUT: Pioneering TTL Li-ion Camera Flash)

## 6.2.The Requirement For RSS- Gen Clause 6.6

The emission bandwidth (x dB) is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated x dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth. When the occupied bandwidth limit is not stated in the applicable RSS or reference measurement method, the transmitted signal bandwidth shall be reported as the 99% emission bandwidth

## 6.3.Operating Condition of EUT

6.3.1.Setup the EUT and simulator as shown as Section 6.1.

6.3.2.Turn on the power of all equipment.

6.3.3. Let the EUT work in TX modes measure it. The transmit frequency is 2412.999634, 2424.5, 2437.999878MHz.

## 6.4.Test Procedure

6.4.1.Place the EUT on the table and set it in transmitting mode.

6.4.2.Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

6.4.3.The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3x RBW.

6.4.4.Set RBW of spectrum analyzer to 30kHz and VBW to 100kHz, Detector function=peak, Trace=max hold, Sweep=auto.

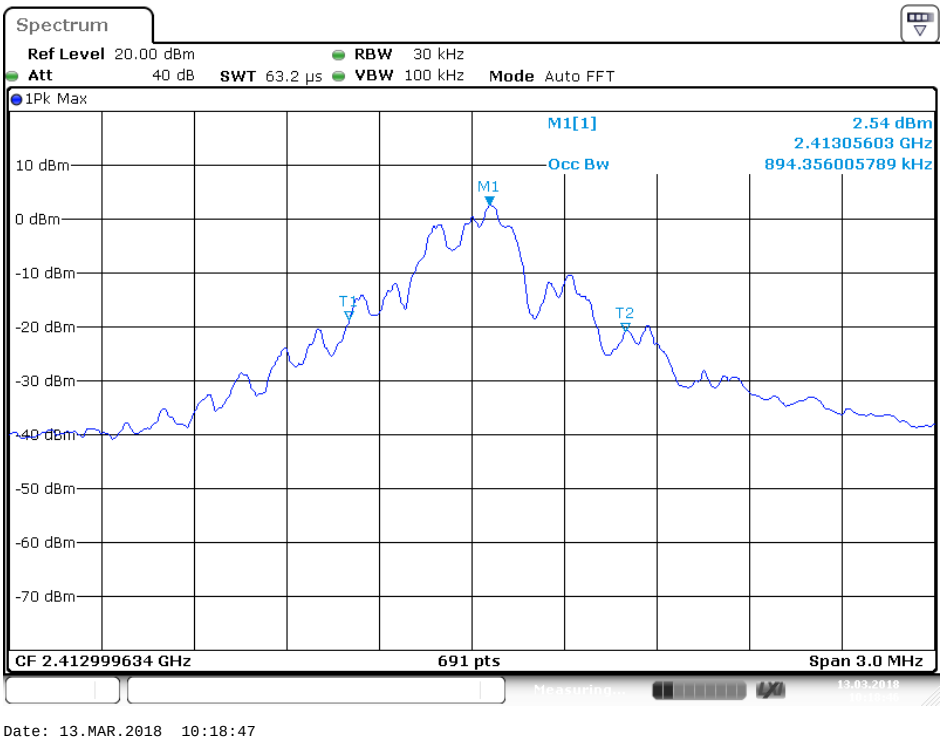
6.4.5.Set SPA “Meas” function, Select “Occupied Bandwidth” function, Select “99% Power Bandwidth”. The frequency of the upper and lower markers indicating the edges of the transmitters “99% Power” emission bandwidth shall be recorded to automate by SPA.

## 6.5.Measurement Result

| Channel | Frequency(MHz) | 99% Bandwidth (MHz) |
|---|---|---|
| Low | 2412.999634 | 0.894 |
| Middle | 2424.500000 | 0.977 |
| High | 2437.999878 | 1.029 |

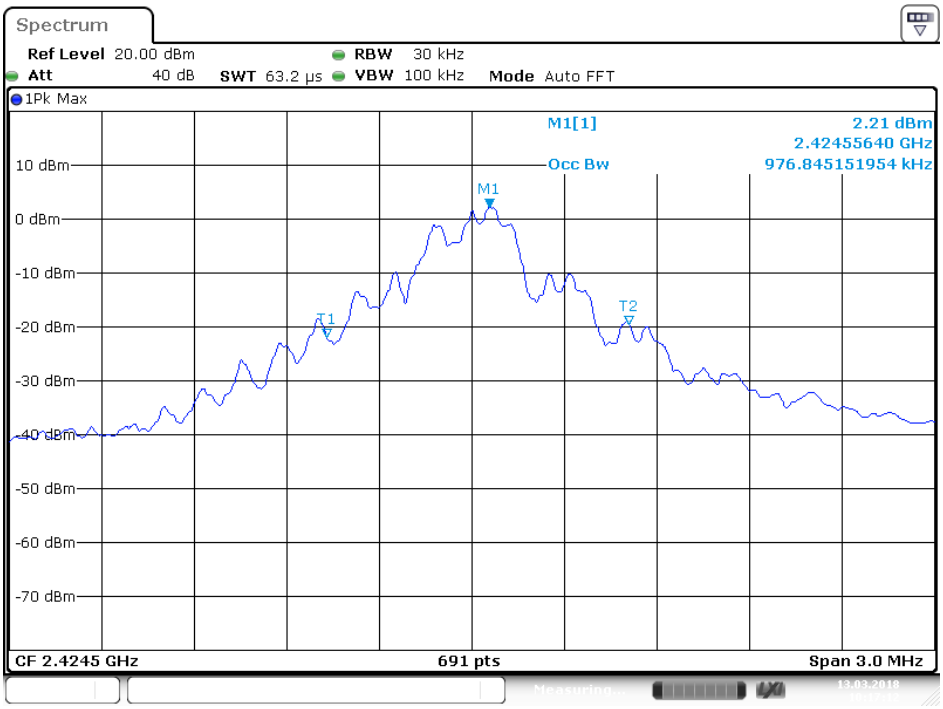
The spectrum analyzer plots are attached as below.

*Low channel*



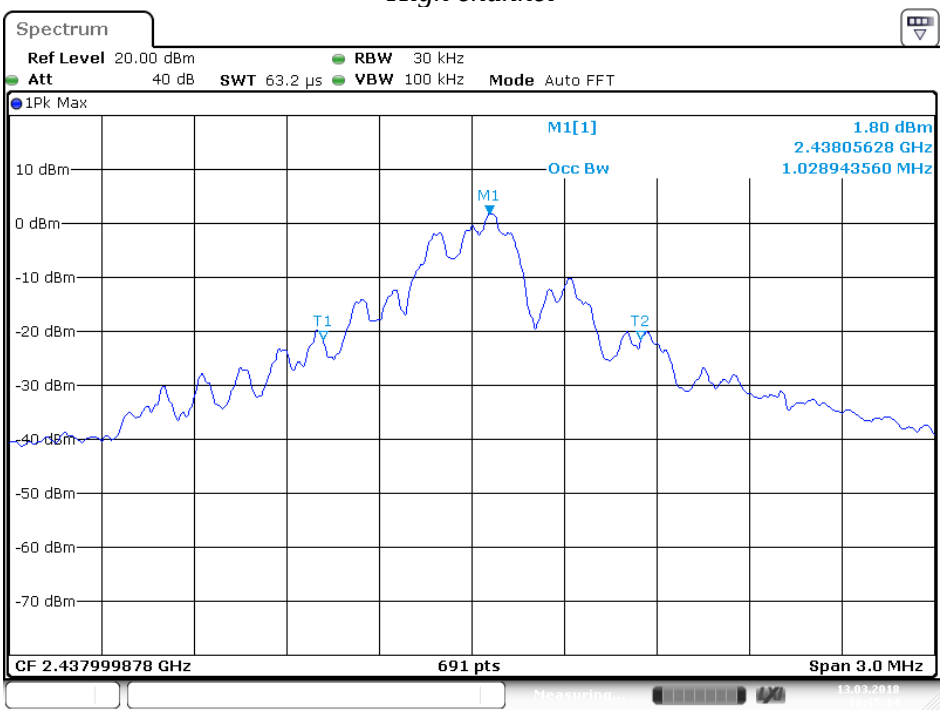

Date: 13.MAR.2018 10:18:47

*Middle channel*




Date: 13.MAR.2018 10:17:12

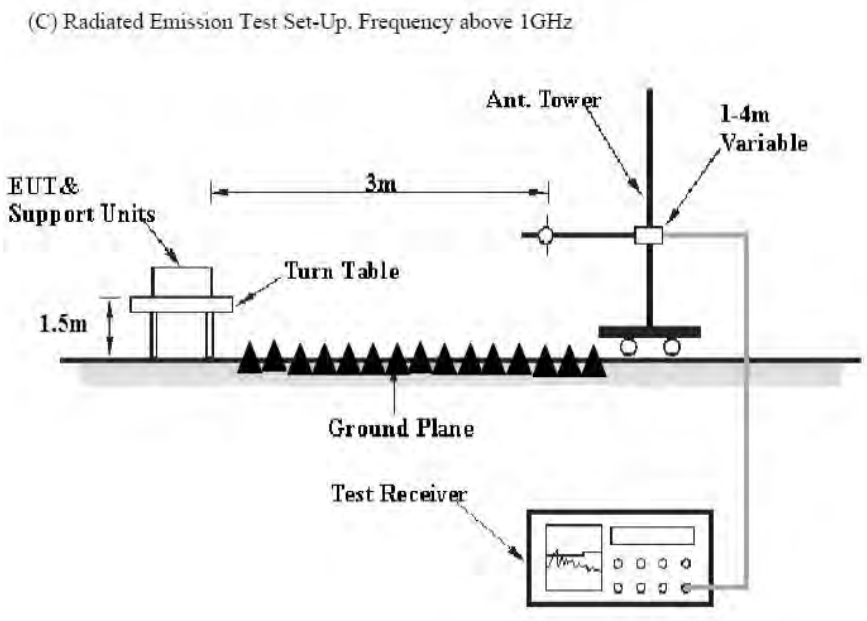
*High channel*




Date: 13.MAR.2018 10:15:15

# 7. BAND EDGE COMPLIANCE TEST

## 7.1.Block Diagram of Test Setup




## 7.2.The Requirement For Section 15.249

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

## 7.3.Restricted bands of operation

### 7.3.1.RSS-Gen Section 8.10 Table 6: Restricted Frequency Bands

Restricted bands, identified in Table 6, are designated primarily for safety-of-life services (distress calling and certain aeronautical bands), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following restrictions apply:
(a) Fundamental components of modulation of licence-exempt radio apparatus shall not fall within the restricted bands of Table 6 except for apparatus complying under RSS-287; (b) Unwanted emissions that fall into restricted bands of Table 6 shall comply with the limits specified in RSS-Gen; and (c) Unwanted emissions that do not fall within the restricted frequency bands of Table 6 shall comply either with the limits specified in the applicable RSS or with those specified in this RSS-Gen.

**Table 6 – Restricted Frequency Bands***

| MHz |
|---|
| 0.090-0.110 |
| 2.1735-2.1905 |
| 3.020-3.026 |
| 4.125-4.128 |
| 4.17725-4.17775 |
| 4.20725-4.20775 |
| 5.677-5.683 |
| 6.215-6.218 |
| 6.26775-6.26825 |
| 6.31175-6.31225 |
| 8.291-8.294 |
| 8.362-8.366 |
| 8.37625-8.38675 |
| 8.41425-8.41475 |
| 12.29-12.293 |
| 12.51975-12.52025 |
| 12.57675-12.57725 |
| 13.36-13.41 |
| 16.42-16.423 |
| 16.69475-16.69525 |
| 16.80425-16.80475 |
| 25.5-25.67 |
| 37.5-38.25 |
| 73-74.6 |
| 74.8-75.2 |
| 108-138 |
| 156.52475-156.52525 |
| 156.7-156.9 |

| MHz |
|---|
| 240-285 |
| 322-335.4 |
| 399.9-410 |
| 608-614 |
| 960-1427 |
| 1435-1626.5 |
| 1645.5-1646.5 |
| 1660-1710 |
| 1718.8-1722.2 |
| 2200-2300 |
| 2310-2390 |
| 2655-2900 |
| 3260-3267 |
| 3332-3339 |
| 3345.8-3358 |
| 3500-4400 |
| 4500-5150 |
| 5350-5460 |
| 7250-7750 |
| 8025-8500 |

| GHz |
|---|
| 9.0-9.2 |
| 9.3-9.5 |
| 10.6-12.7 |
| 13.25-13.4 |
| 14.47-14.5 |
| 15.35-16.2 |
| 17.7-21.4 |
| 22.01-23.12 |
| 23.6-24.0 |
| 31.2-31.8 |
| 36.43-36.5 |
| Above 38.6 |

* Certain frequency bands listed in Table 6 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to the devices are set out in the 200- and 300-series of RSSs, such as RSS-210 and RSS-310, which contain the requirements that apply to licence-exempt radio apparatus.

## 7.4.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

## 7.5.Operating Condition of EUT

7.5.1.Setup the EUT and simulator as shown as Section 6.1.

7.5.2.Turn on the power of all equipment.

7.5.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412.999634, 2437.999878MHz.

## 7.6.Test Procedure

Radiate Band Edge:

7.6.1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.

7.6.2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.

7.6.3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

7.6.4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

RBW=1MHz, VBW=1MHz

7.6.5.The band edges was measured and recorded.

## 7.7.Test Result

The spectrum analyzer plots are attached as below.

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Site: 2# Chamber
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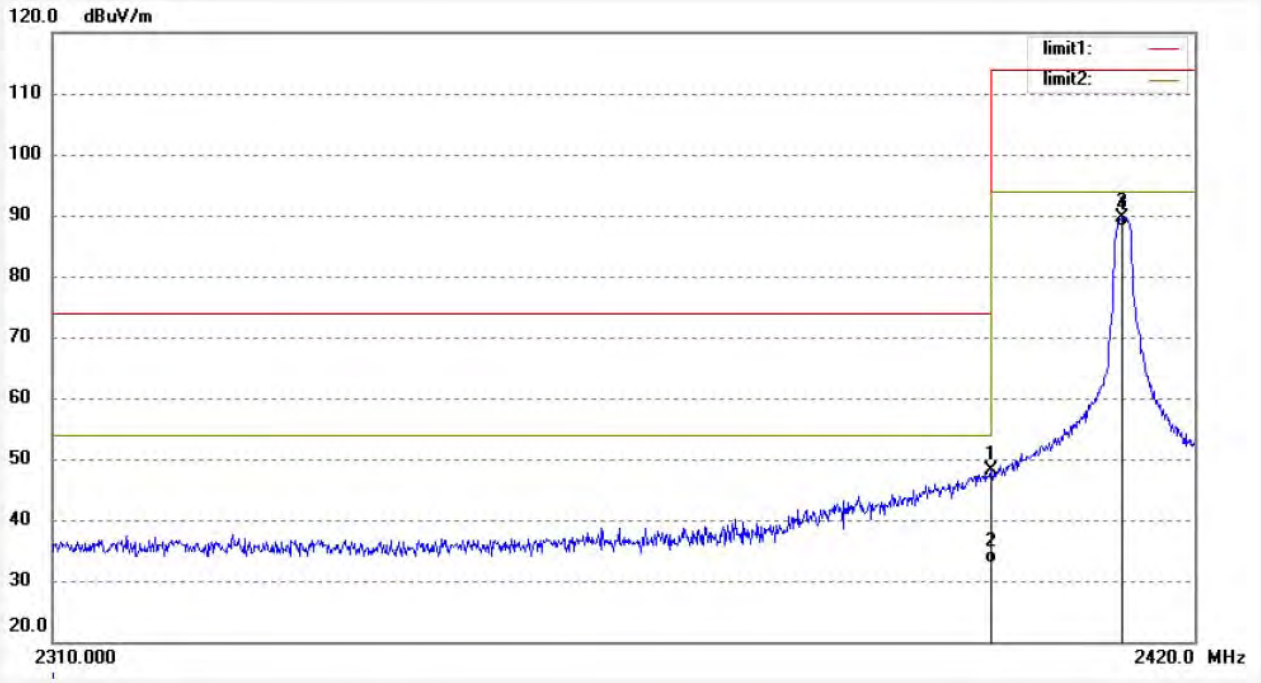
Fax:+86-0755-26503396

Job No.: LGW2018 #588
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Pioneering TTL Li-ion Camera Flash
Mode: TX 2412.999634MHz
Model: V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.

Polarization: Horizontal
Power Source: DC 7.2V
Date: 18/03/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2400.000 | 47.29 | 0.88 | 48.17 | 74.00 | -25.83 | peak | | | |
| 2 | 2400.000 | 31.96 | 0.88 | 32.84 | 54.00 | -21.16 | AVG | | | |
| 3 | 2413.000 | 88.71 | 0.93 | 89.64 | 114.00 | -24.36 | peak | | | |
| 4 | 2413.000 | 87.21 | 0.93 | 88.14 | 94.00 | -5.86 | AVG | | | |

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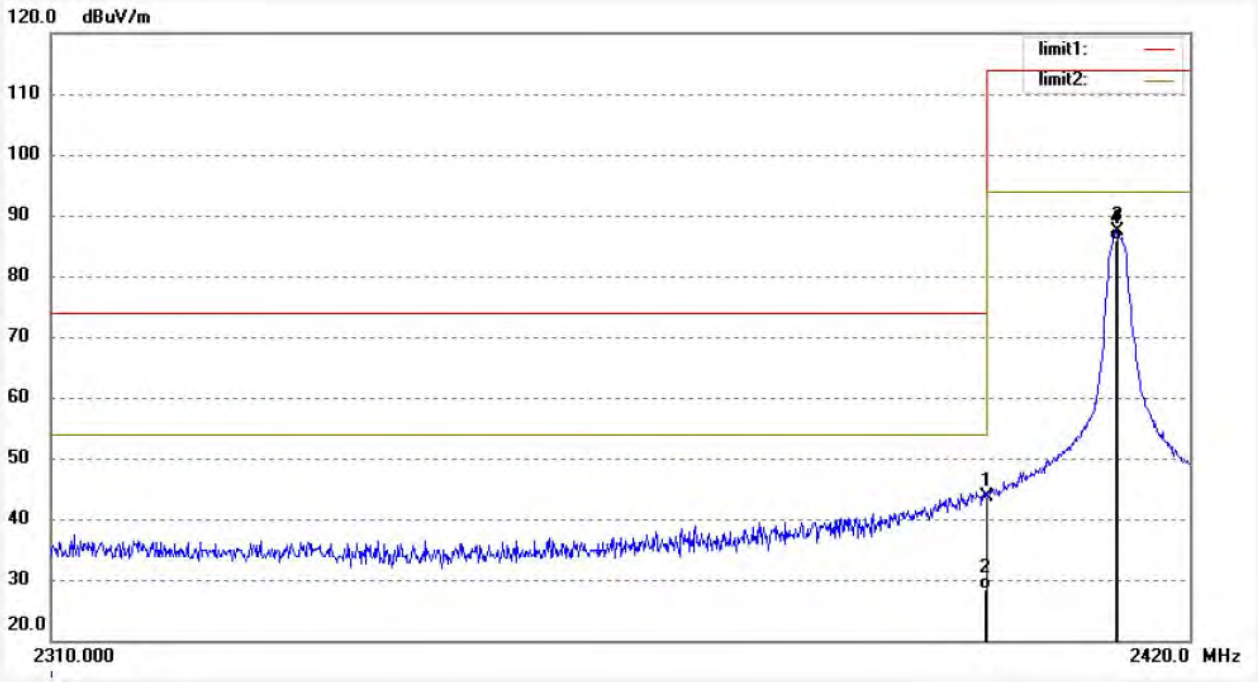
Fax:+86-0755-26503396

Job No.: LGW2018 #587
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Pioneering TTL Li-ion Camera Flash
Mode: TX 2412.999634MHz
Model: V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.

Polarization: Vertical
Power Source: DC 7.2V
Date: 18/03/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2400.000 | 42.87 | 0.88 | 43.75 | 74.00 | -30.25 | peak | | | |
| 2 | 2400.000 | 27.59 | 0.88 | 28.47 | 54.00 | -25.53 | AVG | | | |
| 3 | 2413.000 | 86.38 | 0.93 | 87.31 | 114.00 | -26.69 | peak | | | |
| 4 | 2413.000 | 84.88 | 0.93 | 85.81 | 94.00 | -8.19 | AVG | | | |

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Site: 2# Chamber
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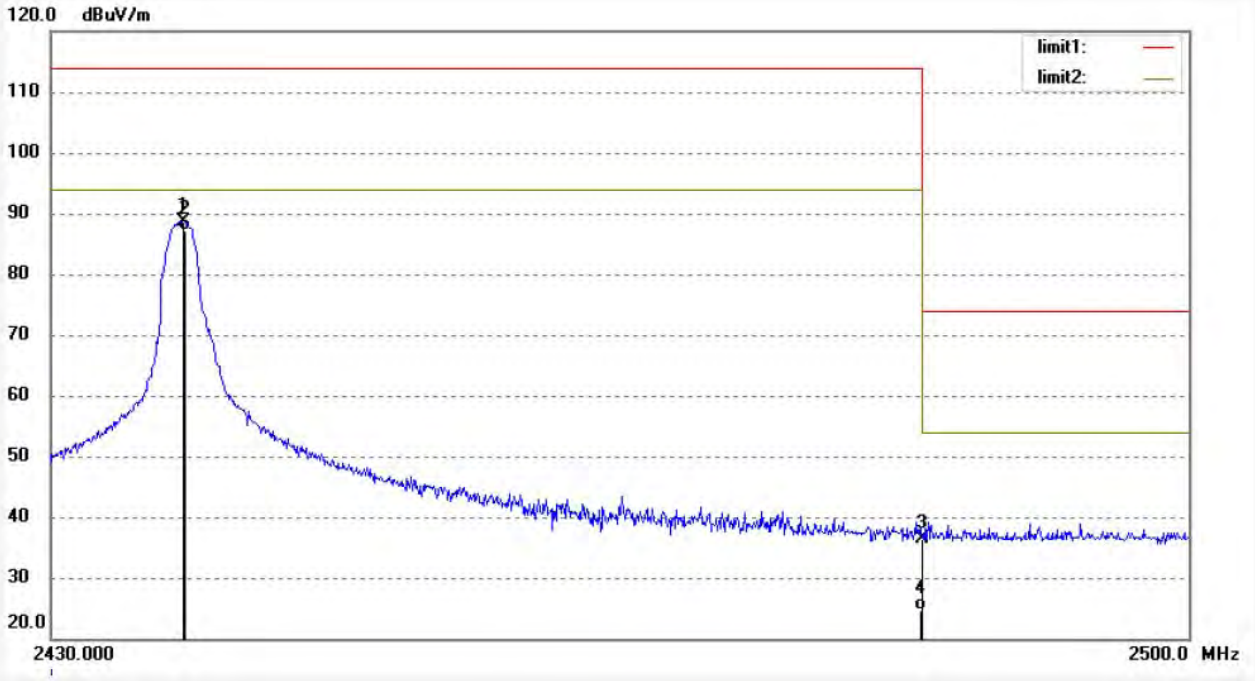
Fax:+86-0755-26503396

Job No.: LGW2018 #593
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Pioneering TTL Li-ion Camera Flash
Mode: TX 2437.999878MHz
Model: V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.

Polarization: Horizontal
Power Source: DC 7.2V
Date: 18/03/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2438.000 | 87.51 | 1.04 | 88.55 | 114.00 | -25.45 | peak | | | |
| 2 | 2438.000 | 86.01 | 1.04 | 87.05 | 94.00 | -6.95 | AVG | | | |
| 3 | 2483.500 | 35.37 | 1.10 | 36.47 | 74.00 | -37.53 | peak | | | |
| 4 | 2483.500 | 23.44 | 1.10 | 24.54 | 54.00 | -29.46 | AVG | | | |

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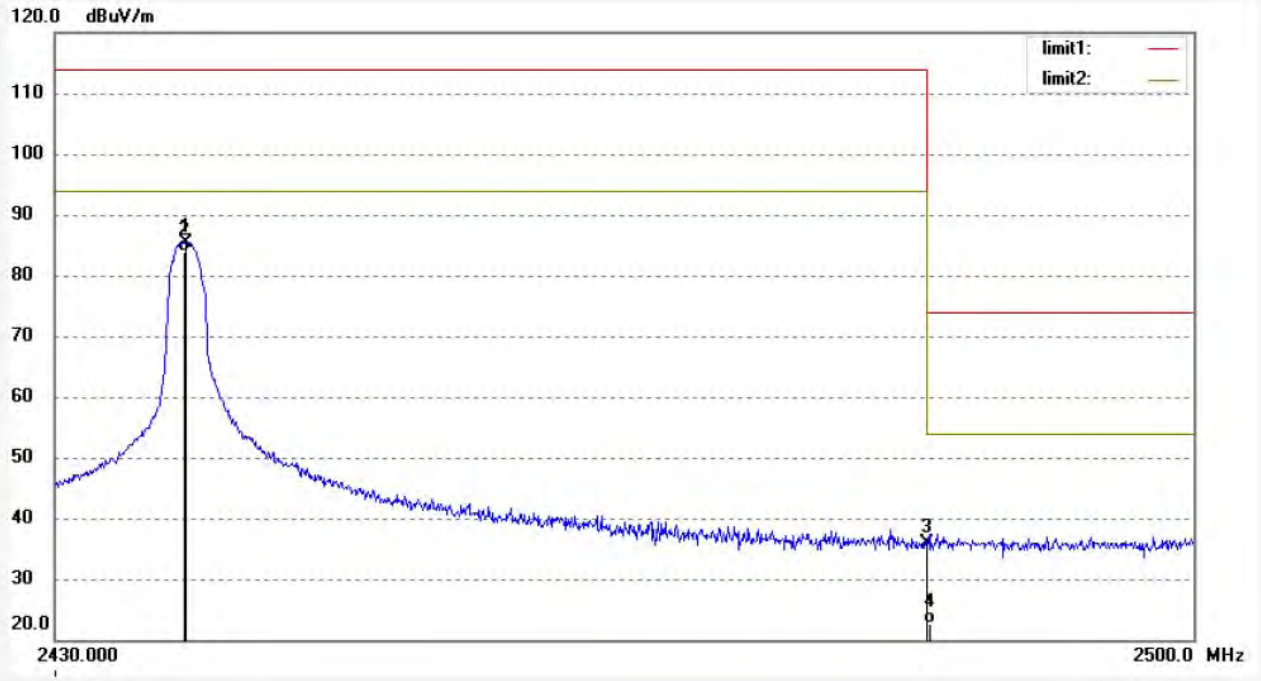
Job No.: LGW2018 #594
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Pioneering TTL Li-ion Camera Flash
Mode: TX 2437.999878MHz
Model: V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.

Polarization: Vertical
Power Source: DC 7.2V
Date: 18/03/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2438.000 | 84.41 | 1.04 | 85.45 | 114.00 | -28.55 | peak | | | |
| 2 | 2438.000 | 82.91 | 1.04 | 83.95 | 94.00 | -10.05 | AVG | | | |
| 3 | 2483.500 | 34.78 | 1.10 | 35.88 | 74.00 | -38.12 | peak | | | |
| 4 | 2483.500 | 21.55 | 1.10 | 22.65 | 54.00 | -31.35 | AVG | | | |

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor
3. Display the measurement of peak values.
4. The average measurement was not performed when peak measured data under the limit of average detection.

# 8. RADIATED SPURIOUS EMISSION TEST

## 8.1.Block Diagram of Test Setup

### 8.1.1.Block diagram of connection between the EUT and peripherals

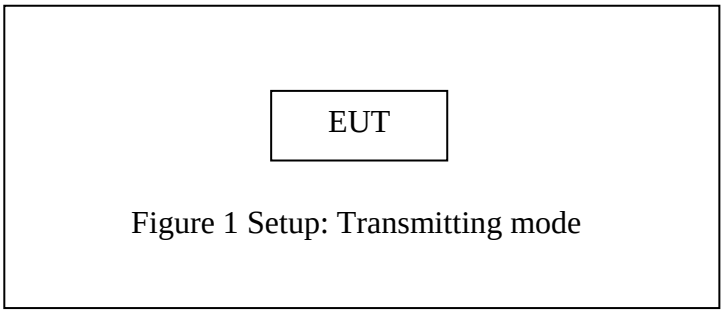
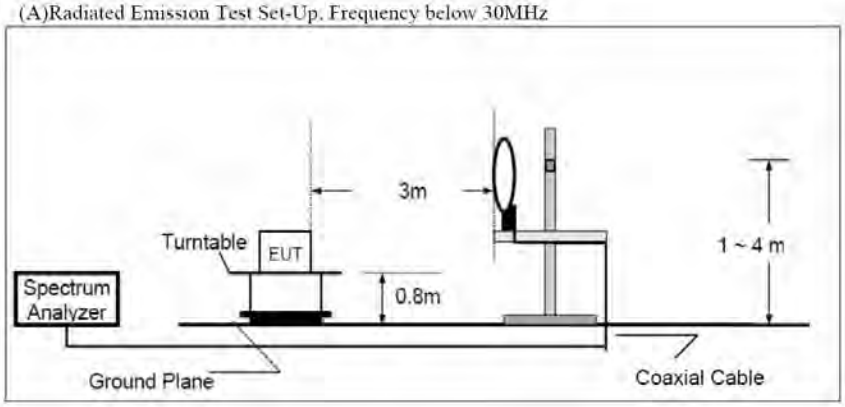


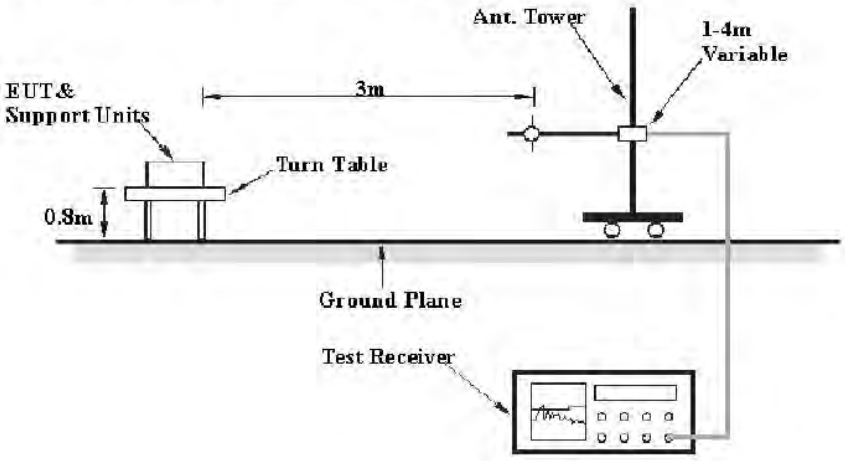

Figure 1 Setup: Transmitting mode

### 8.1.2.Semi-Anechoic Chamber Test Setup Diagram

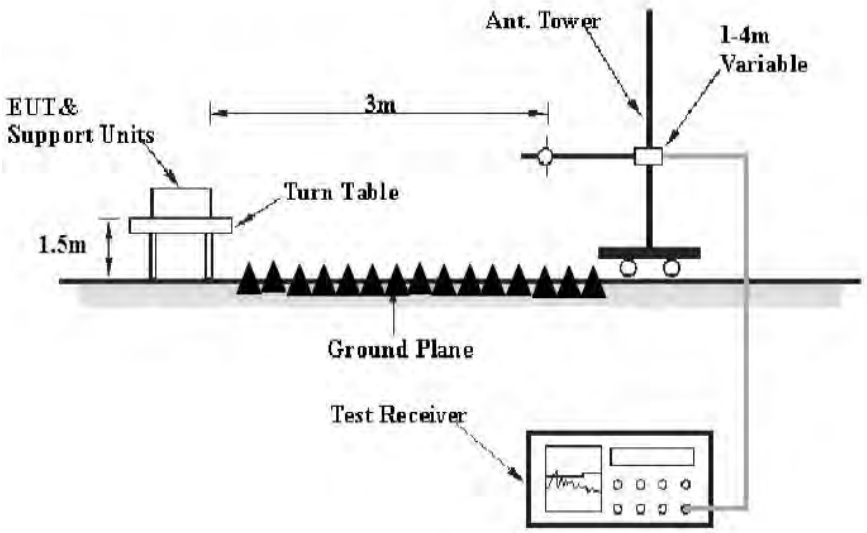
(A)Radiated Emission Test Set-Up, Frequency below 30MHz




(B)Radiated Emission Test Set-Up, Frequency 30MHz-1GHz



(C) Radiated Emission Test Set-Up. Frequency above 1GHz




## 8.2.The Limit For Section 15.249

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph A8.4(4), the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

## 8.3.The Limit For RSS-Gen Section 8.9

### 8.3.1.Measurement Limits According to RSS-Gen Section 8.9

**Table 5 – General Field Strength Limits for Licence-Exempt Transmitters at Frequencies Below 30 MHz**

| Frequency | Electric Field Strength (μV/m) | Magnetic Field Strength (H-Field) (μA/m) | Measurement Distance (metres) |
|---|---|---|---|
| 9-490 kHz | 2,400/F (F in kHz) | 2,400/377F (F in kHz) | 300 |
| 490-1,705 kHz | 24,000/F (F in kHz) | 24,000/377F (F in kHz) | 30 |
| 1,705-30 MHz | 30 | N/A | 30 |

**Table 4 – General Field Strength Limits for Licence-Exempt Transmitters at Frequencies Above 30 MHz**

| Frequency (MHz) | Field Strength (μv/m at 3 metres) |
|---|---|
| 30-88 | 100 |
| 88-216 | 150 |
| 216-960 | 200 |
| Above 960* | 500 |

## 8.4.Restricted bands of operation

### 8.4.1.FCC Part 15.205 Restricted bands of operation

(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 |
|---|---|---|---|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| [1]0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | ([2]) |
| 13.36-13.41 | | | |

[1]Until February 1, 1999, this restricted band shall be 0.490-0.510
[2]Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

## 8.5.Configuration of EUT on Measurement

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

## 8.6.Operating Condition of EUT

8.6.1.Setup the EUT and simulator as shown as Section 7.1.

8.6.2.Turn on the power of all equipment.

8.6.3.Let the EUT work in TX modes and measure it. The transmit frequency are 2412.999634, 2424.5, 2437.999878MHz.

## 8.7.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter(Below 1GHz) and 1.5m(above 1GHz) high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated emission measurement. This EUT was tested in 3 orthogonal positions and the worst case position data was reported.

The bandwidth of test receiver is set at 9 kHz in below 30MHz. and set at 120 kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9 kHz to 26.5GHz is checked.

The final measurement in band 9-90 kHz, 110-490 kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

RBW (120 kHz), VBW (300 kHz) for QP detector below 1GHz
Peak detector above 1GHz
RBW (1 MHz), VBW (3MHz) for Peak measurement
RBW (1 MHz), VBW (10Hz) for AV measurement

## 8.8.Data Sample

| Frequency (MHz) | Reading (dBμv) | Factor (dB/m) | Result (dBμv/m) | Limit (dBμv/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|
| X.XX | 48.69 | -13.35 | 35.34 | 46 | -7 | QP |

Frequency(MHz) = Emission frequency in MHz
Reading(dBμv) = Uncorrected Analyzer/Receiver reading
Factor (dB/m) = Antenna factor + Cable Loss – Amplifier gain
Result(dBμv/m) = Reading(dBμv) + Factor(dB/m)
Limit (dBμv/m) = Limit stated in standard
Margin (dB) = Result(dBμv/m) - Limit (dBμv/m)
QP = Quasi-peak Reading

Calculation Formula:
Margin(dB) = Result (dBμV/m)–Limit(dBμV/m)
Result(dBμV/m)= Reading(dBμV)+ Factor(dB/m)

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.

## 8.9.The Field Strength of Radiation Emission Measurement Results

**PASS.**

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. The EUT is tested radiation emission in three axes. The worst emissions are reported in all channels.

3. The average measurement was not performed when peak measured data under the limit of average detection.

The spectrum analyzer plots are attached as below.

Below 30MHz

***ACCURATE TECHNOLOGY CO.,LTD***

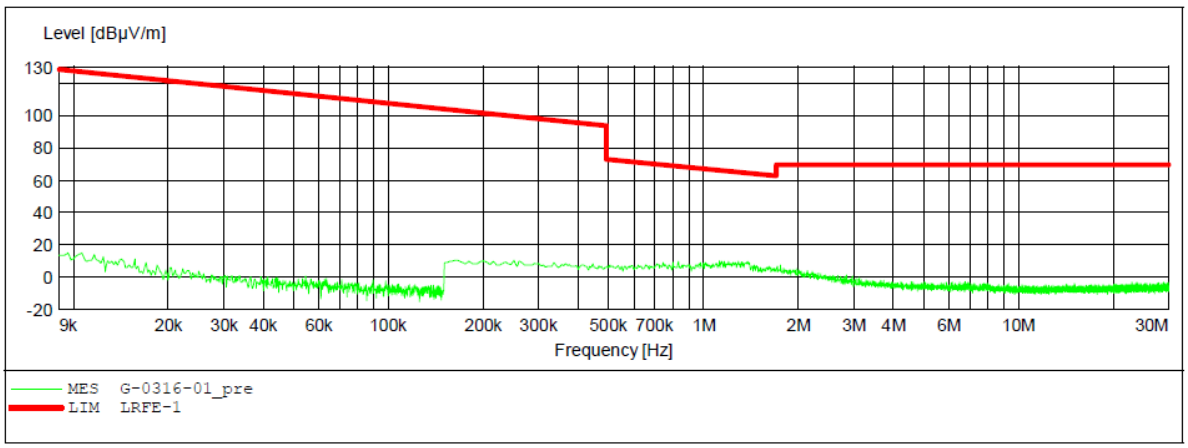
***FCC Class B 3M Radiated***

EUT: Pioneering TTL Li-ion Camera Flash M/N:V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.
Operating Condition: TX 2412.999634MHz
Test Site: 2# Chamber
Operator: LGWADE
Test Specification: DC 7.2V
Comment: X
Start of Test: 2018-3-16 /

***SCAN TABLE: "LFRE Fin"***

Short Description: _SUB_STD_VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
|---|---|---|---|---|---|---|
| 9.0 kHz | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s | 200 Hz | 1516M |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | QuasiPeak | 1.0 s | 9 kHz | 1516M |



***ACCURATE TECHNOLOGY CO.,LTD***

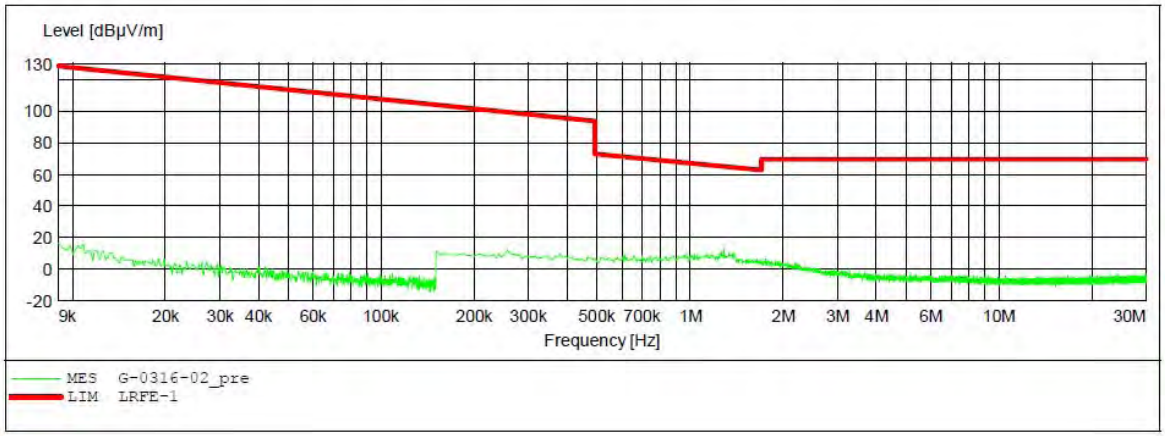
***FCC Class B 3M Radiated***

| | |
|---|---|
| EUT: | Pioneering TTL Li-ion Camera Flash M/N:V350S |
| Manufacturer: | GODOX Photo Equipment Co., Ltd. |
| Operating Condition: | TX 2412.999634MHz |
| Test Site: | 2# Chamber |
| Operator: | LGWADE |
| Test Specification: | DC 7.2V |
| Comment: | Y |
| Start of Test: | 2018-3-16 / |

***SCAN TABLE: "LFRE Fin"***

Short Description: _SUB_STD_VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
|---|---|---|---|---|---|---|
| 9.0 kHz | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s | 200 Hz | 1516M |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | QuasiPeak | 1.0 s | 9 kHz | 1516M |



***ACCURATE TECHNOLOGY CO.,LTD***

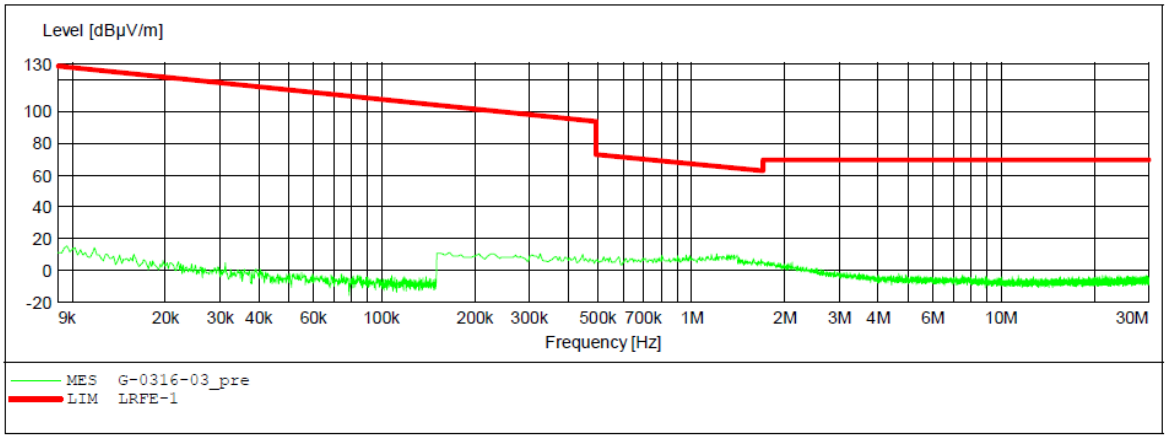
***FCC Class B 3M Radiated***

EUT: Pioneering TTL Li-ion Camera Flash M/N:V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.
Operating Condition: TX 2412.999634MHz
Test Site: 2# Chamber
Operator: LGWADE
Test Specification: DC 7.2V
Comment: Z
Start of Test: 2018-3-16 /

***SCAN TABLE: "LFRE Fin"***

Short Description: _SUB_STD_VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
|---|---|---|---|---|---|---|
| 9.0 kHz | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s | 200 Hz | 1516M |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | QuasiPeak | 1.0 s | 9 kHz | 1516M |



***ACCURATE TECHNOLOGY CO.,LTD***

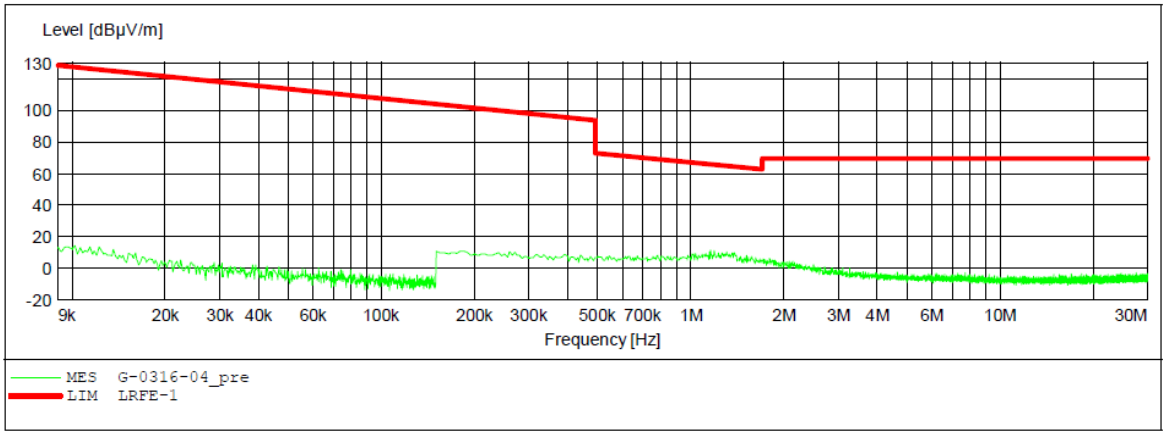
***FCC Class B 3M Radiated***

EUT: Pioneering TTL Li-ion Camera Flash M/N:V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.
Operating Condition: TX 2424.5MHz
Test Site: 2# Chamber
Operator: LGWADE
Test Specification: DC 7.2V
Comment: X
Start of Test: 2018-3-16 /

***SCAN TABLE: "LFRE Fin"***

Short Description: _SUB_STD_VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
|---|---|---|---|---|---|---|
| 9.0 kHz | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s | 200 Hz | 1516M |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | QuasiPeak | 1.0 s | 9 kHz | 1516M |



***ACCURATE TECHNOLOGY CO.,LTD***

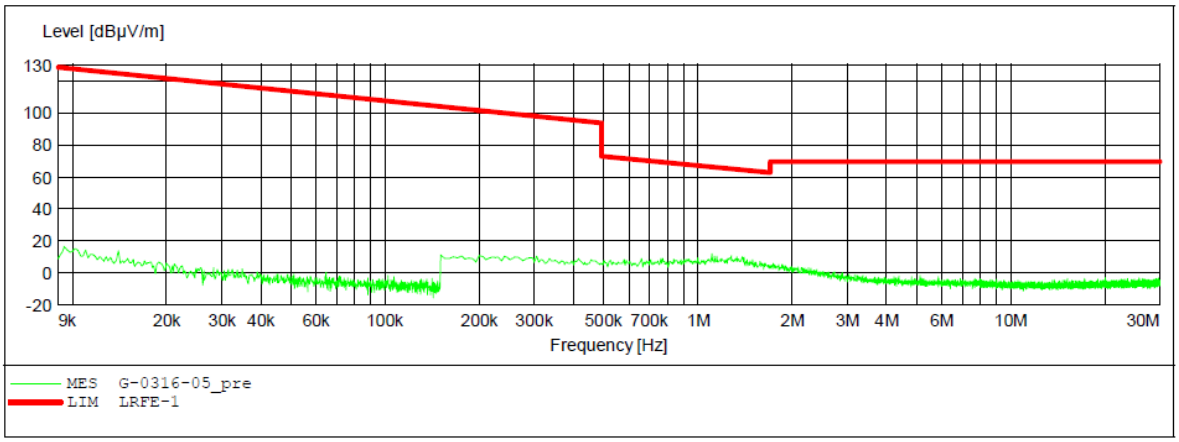
***FCC Class B 3M Radiated***

EUT: Pioneering TTL Li-ion Camera Flash M/N:V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.
Operating Condition: TX 2424.5MHz
Test Site: 2# Chamber
Operator: LGWADE
Test Specification: DC 7.2V
Comment: Y
Start of Test: 2018-3-16 /

***SCAN TABLE: "LFRE Fin"***

Short Description: _SUB_STD_VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
|---|---|---|---|---|---|---|
| 9.0 kHz | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s | 200 Hz | 1516M |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | QuasiPeak | 1.0 s | 9 kHz | 1516M |



***ACCURATE TECHNOLOGY CO.,LTD***

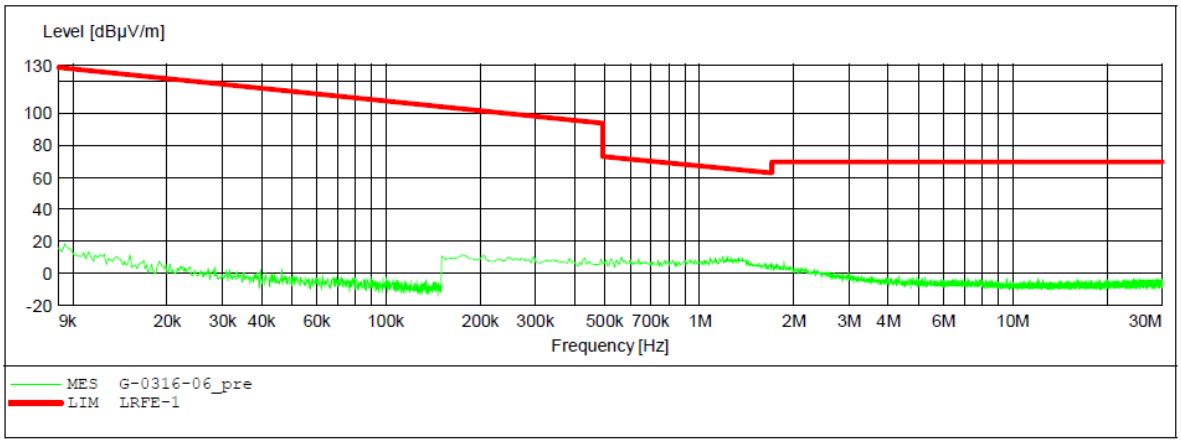
***FCC Class B 3M Radiated***

EUT: Pioneering TTL Li-ion Camera Flash M/N:V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.
Operating Condition: TX 2424.5MHz
Test Site: 2# Chamber
Operator: LGWADE
Test Specification: DC 7.2V
Comment: Z
Start of Test: 2018-3-16 /

***SCAN TABLE: "LFRE Fin"***

Short Description: _SUB_STD_VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
|---|---|---|---|---|---|---|
| 9.0 kHz | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s | 200 Hz | 1516M |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | QuasiPeak | 1.0 s | 9 kHz | 1516M |



***ACCURATE TECHNOLOGY CO.,LTD***

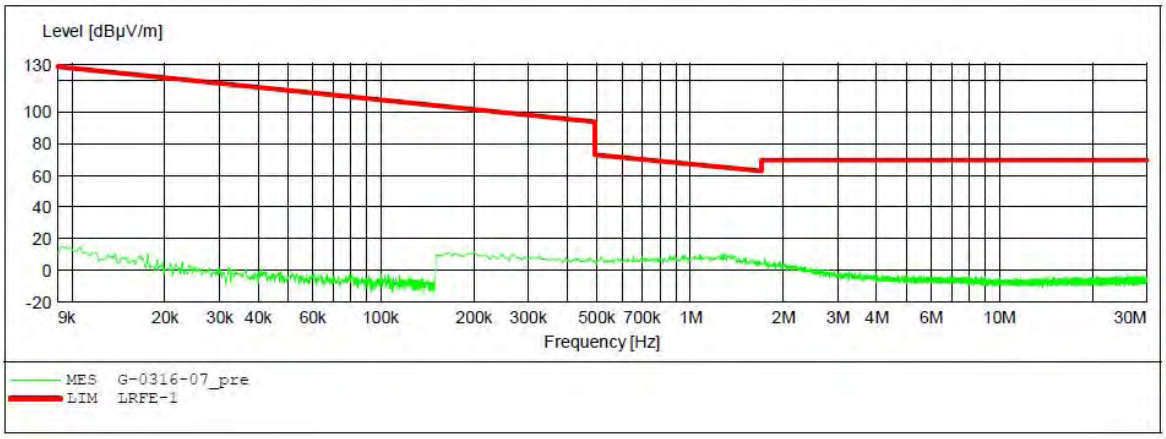
***FCC Class B 3M Radiated***

| | |
|---|---|
| EUT: | Pioneering TTL Li-ion Camera Flash M/N:V350S |
| Manufacturer: | GODOX Photo Equipment Co., Ltd. |
| Operating Condition: | TX 2437.999878MHz |
| Test Site: | 2# Chamber |
| Operator: | LGWADE |
| Test Specification: | DC 7.2V |
| Comment: | X |
| Start of Test: | 2018-3-16 / |

***SCAN TABLE: "LFRE Fin"***

Short Description: _SUB_STD_VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
|---|---|---|---|---|---|---|
| 9.0 kHz | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s | 200 Hz | 1516M |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | QuasiPeak | 1.0 s | 9 kHz | 1516M |



***ACCURATE TECHNOLOGY CO.,LTD***

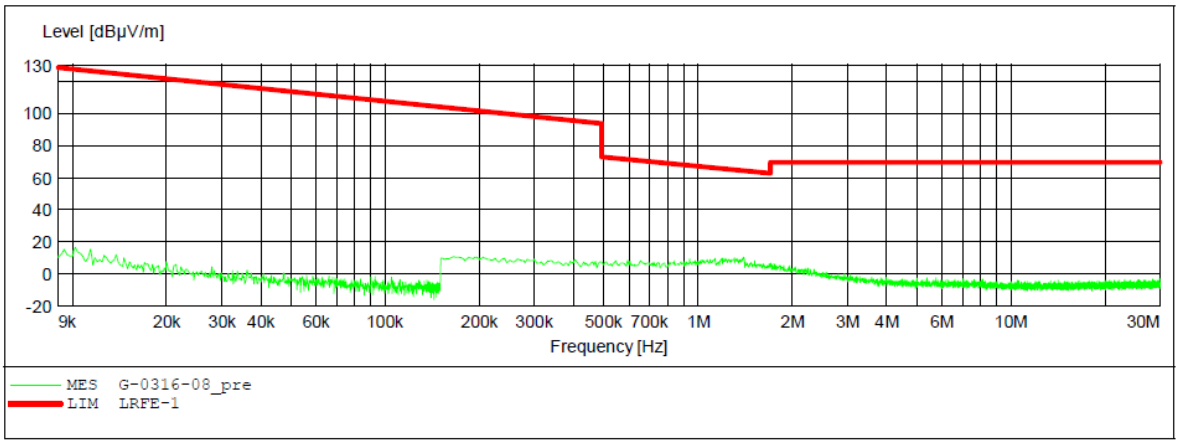
***FCC Class B 3M Radiated***

```
EUT:                  Pioneering TTL Li-ion Camera Flash M/N:V350S
Manufacturer:         GODOX Photo Equipment Co., Ltd.
Operating Condition:  TX 2437.999878MHz
Test Site:            2# Chamber
Operator:             LGWADE
Test Specification:   DC 7.2V
Comment:              Y
Start of Test:        2018-3-16 /
```

***SCAN TABLE: "LFRE Fin"***

Short Description: _SUB_STD_VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
|---|---|---|---|---|---|---|
| 9.0 kHz | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s | 200 Hz | 1516M |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | QuasiPeak | 1.0 s | 9 kHz | 1516M |



***ACCURATE TECHNOLOGY CO.,LTD***

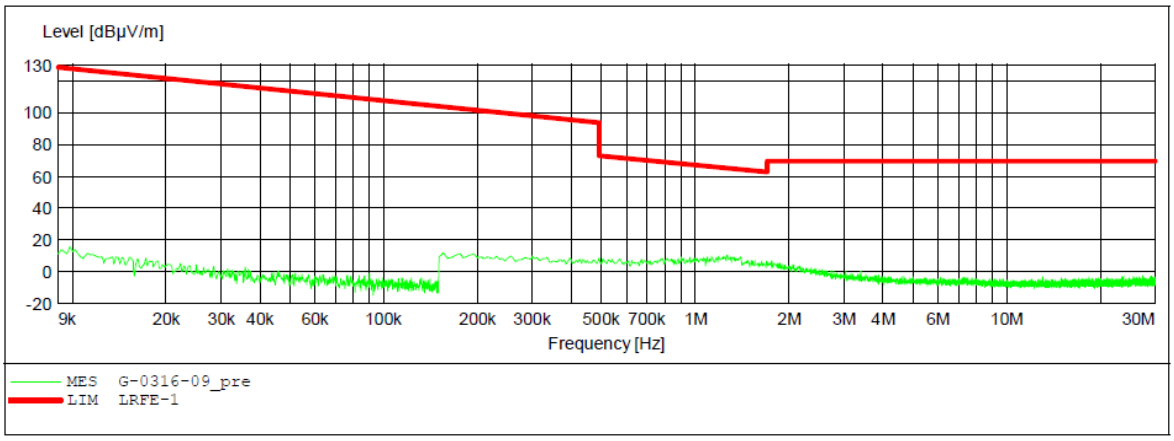
***FCC Class B 3M Radiated***

| | |
|---|---|
| EUT: | Pioneering TTL Li-ion Camera Flash M/N:V350S |
| Manufacturer: | GODOX Photo Equipment Co., Ltd. |
| Operating Condition: | TX 2437.999878MHz |
| Test Site: | 2# Chamber |
| Operator: | LGWADE |
| Test Specification: | DC 7.2V |
| Comment: | Z |
| Start of Test: | 2018-3-16 / |

***SCAN TABLE: "LFRE Fin"***

Short Description: _SUB_STD_VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
|---|---|---|---|---|---|---|
| 9.0 kHz | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s | 200 Hz | 1516M |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | QuasiPeak | 1.0 s | 9 kHz | 1516M |



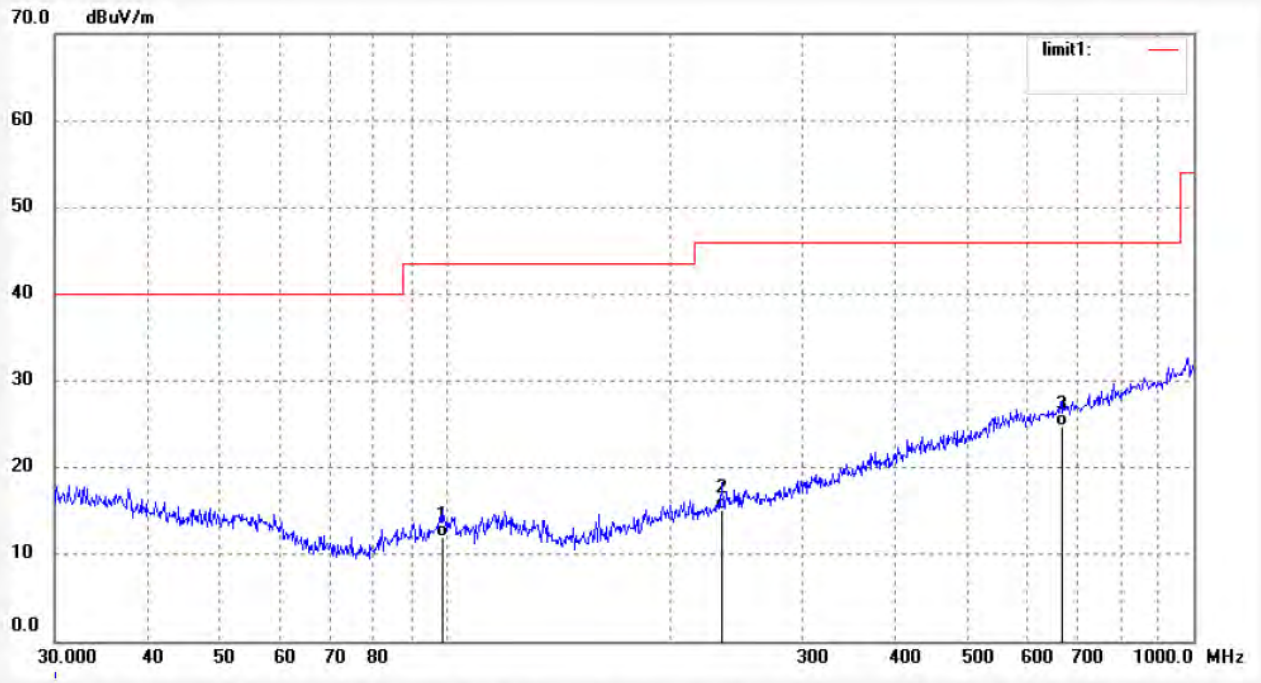
30MHz-1GHz

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2018 #601
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Pioneering TTL Li-ion Camera Flash
Mode: TX 2412.999634MHz
Model: V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.

Polarization: Horizontal
Power Source: DC 7.2V
Date: 18/03/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:



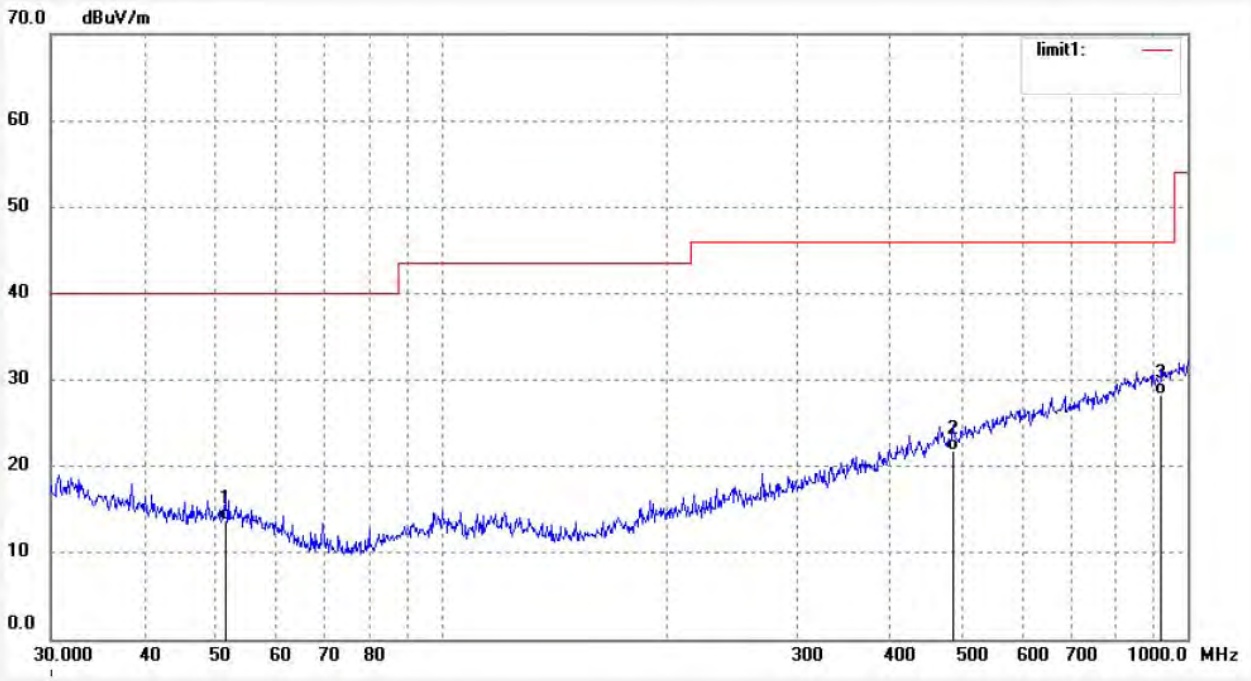

| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 98.8324 | 25.51 | -13.44 | 12.07 | 43.50 | -31.43 | QP | | | |
| 2 | 234.1683 | 26.10 | -10.88 | 15.22 | 46.00 | -30.78 | QP | | | |
| 3 | 665.8034 | 26.31 | -1.53 | 24.78 | 46.00 | -21.22 | QP | | | |

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2018 #602
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Pioneering TTL Li-ion Camera Flash
Mode: TX 2412.999634MHz
Model: V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.

Polarization: Vertical
Power Source: DC 7.2V
Date: 18/03/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:



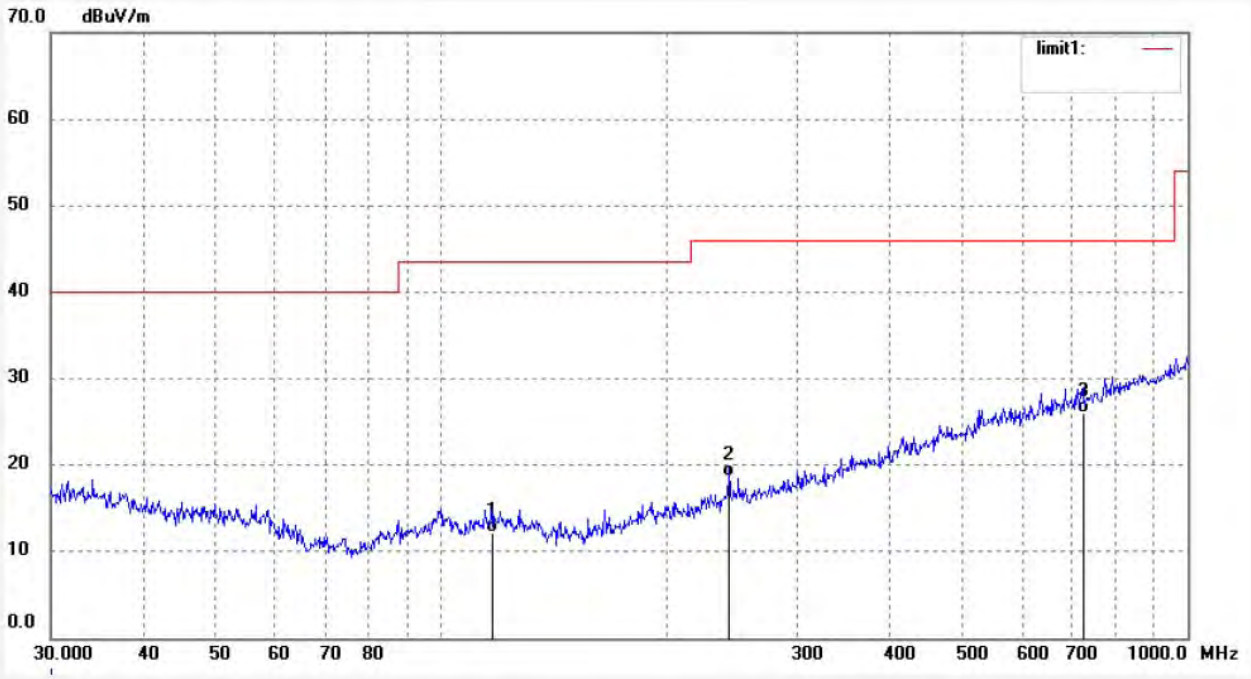

| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 51.4806 | 26.39 | -12.69 | 13.70 | 40.00 | -26.30 | QP | | | |
| 2 | 485.6093 | 26.52 | -4.78 | 21.74 | 46.00 | -24.26 | QP | | | |
| 3 | 922.5157 | 25.67 | 2.57 | 28.24 | 46.00 | -17.76 | QP | | | |

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2018 #604
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Pioneering TTL Li-ion Camera Flash
Mode: TX 2424.5MHz
Model: V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.

Polarization: Horizontal
Power Source: DC 7.2V
Date: 18/03/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 116.9495 | 25.15 | -13.06 | 12.09 | 43.50 | -31.41 | QP | | | |
| 2 | 243.3771 | 29.22 | -10.60 | 18.62 | 46.00 | -27.38 | QP | | | |
| 3 | 724.2611 | 26.65 | -0.70 | 25.95 | 46.00 | -20.05 | QP | | | |

ACCURATE TECHNOLOGY CO., LTD.
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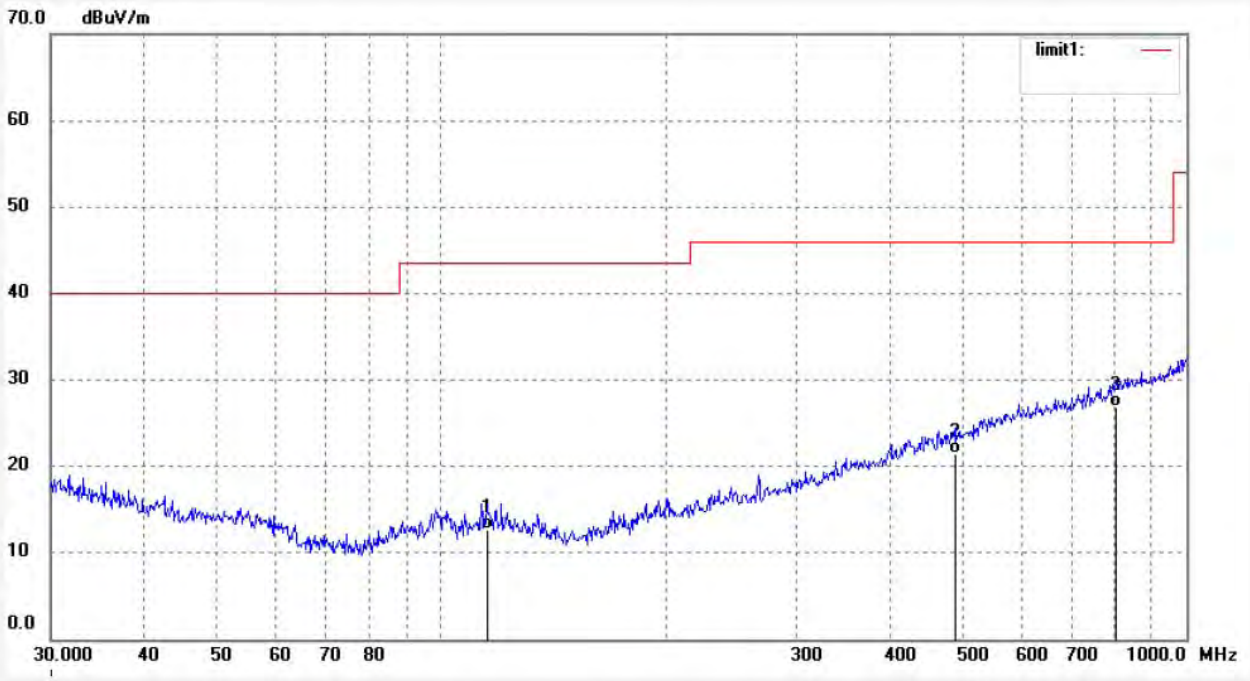
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2018 #603
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Pioneering TTL Li-ion Camera Flash
Mode: TX 2424.5MHz
Model: V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.

Polarization: Vertical
Power Source: DC 7.2V
Date: 18/03/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 115.3204 | 25.80 | -13.06 | 12.74 | 43.50 | -30.76 | QP | | | |
| 2 | 489.0269 | 26.19 | -4.74 | 21.45 | 46.00 | -24.55 | QP | | | |
| 3 | 804.6028 | 26.03 | 0.91 | 26.94 | 46.00 | -19.06 | QP | | | |

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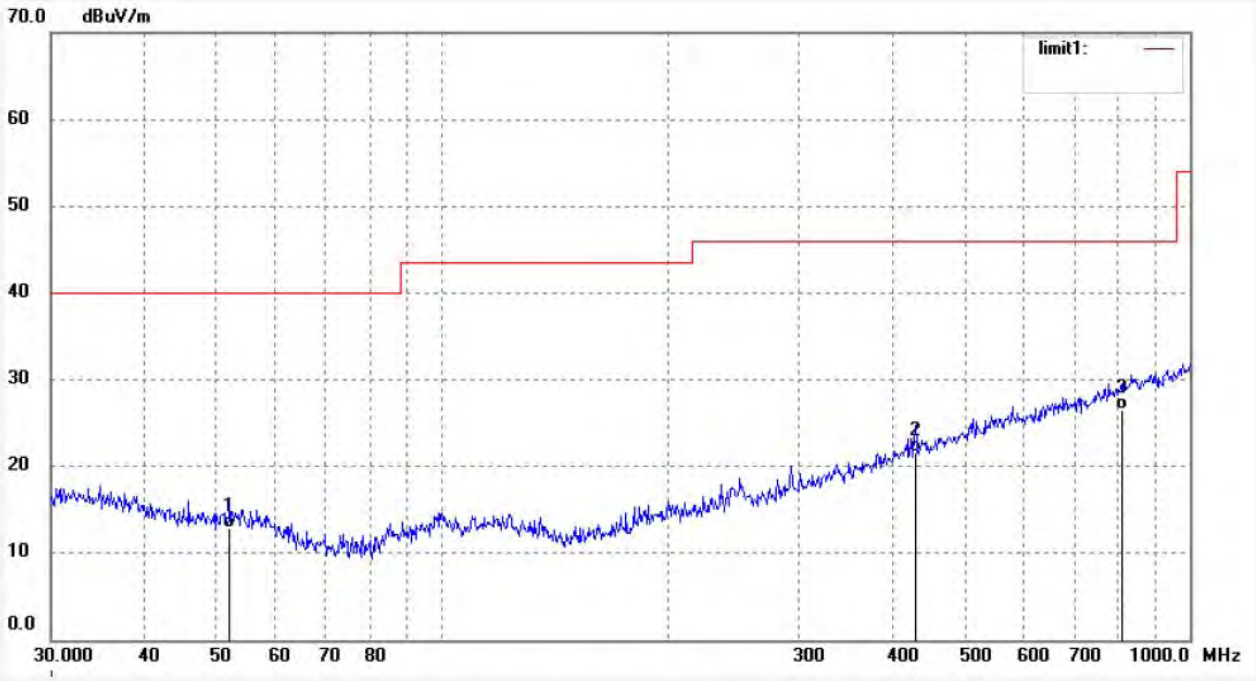
Fax:+86-0755-26503396

Job No.: LGW2018 #605
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Pioneering TTL Li-ion Camera Flash
Mode: TX 2437.999878MHz
Model: V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.

Polarization: Horizontal
Power Source: DC 7.2V
Date: 18/03/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 52.0251 | 25.66 | -12.73 | 12.93 | 40.00 | -27.07 | QP | | | |
| 2 | 429.5228 | 27.34 | -5.64 | 21.70 | 46.00 | -24.30 | QP | | | |
| 3 | 813.1115 | 25.48 | 1.04 | 26.52 | 46.00 | -19.48 | QP | | | |

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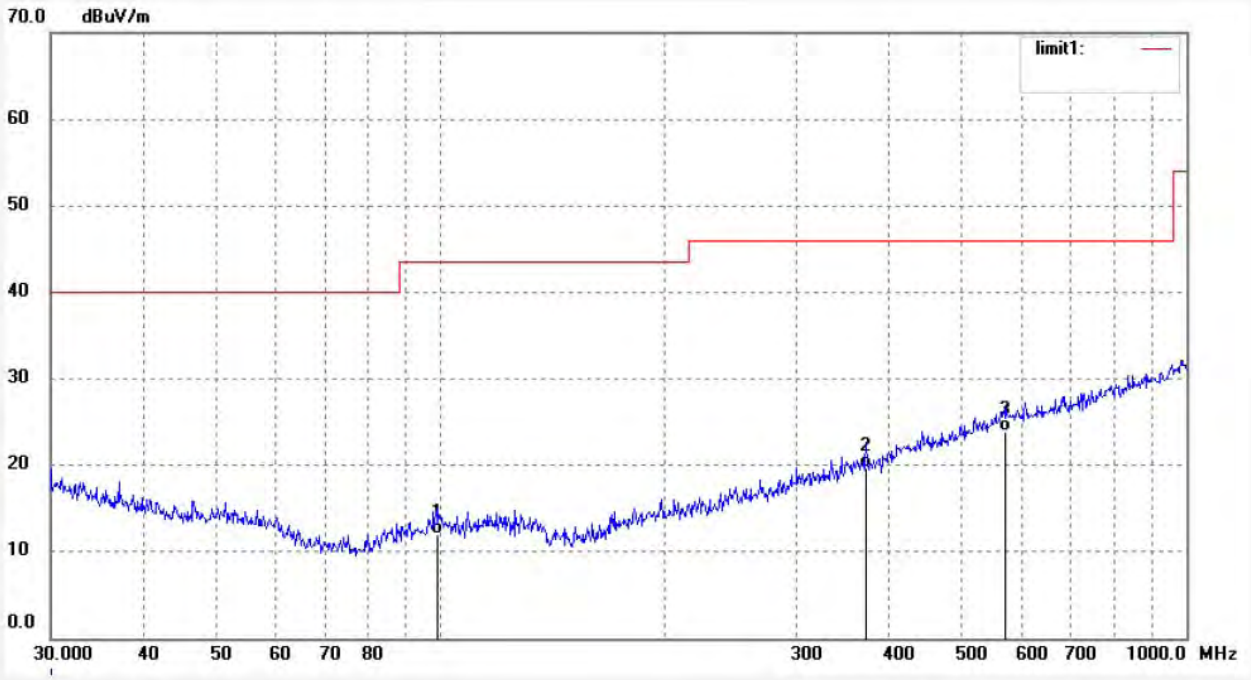
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2018 #606
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Pioneering TTL Li-ion Camera Flash
Mode: TX 2437.999878MHz
Model: V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.

Polarization: Vertical
Power Source: DC 7.2V
Date: 18/03/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 98.8324 | 25.39 | -13.44 | 11.95 | 43.50 | -31.55 | QP | | | |
| 2 | 372.0045 | 26.80 | -7.13 | 19.67 | 46.00 | -26.33 | QP | | | |
| 3 | 572.6144 | 26.53 | -2.69 | 23.84 | 46.00 | -22.16 | QP | | | |

1GHz-18GHz

ACCURATE TECHNOLOGY CO., LTD.
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Science & Industry Park,Nanshan Shenzhen,P.R.China
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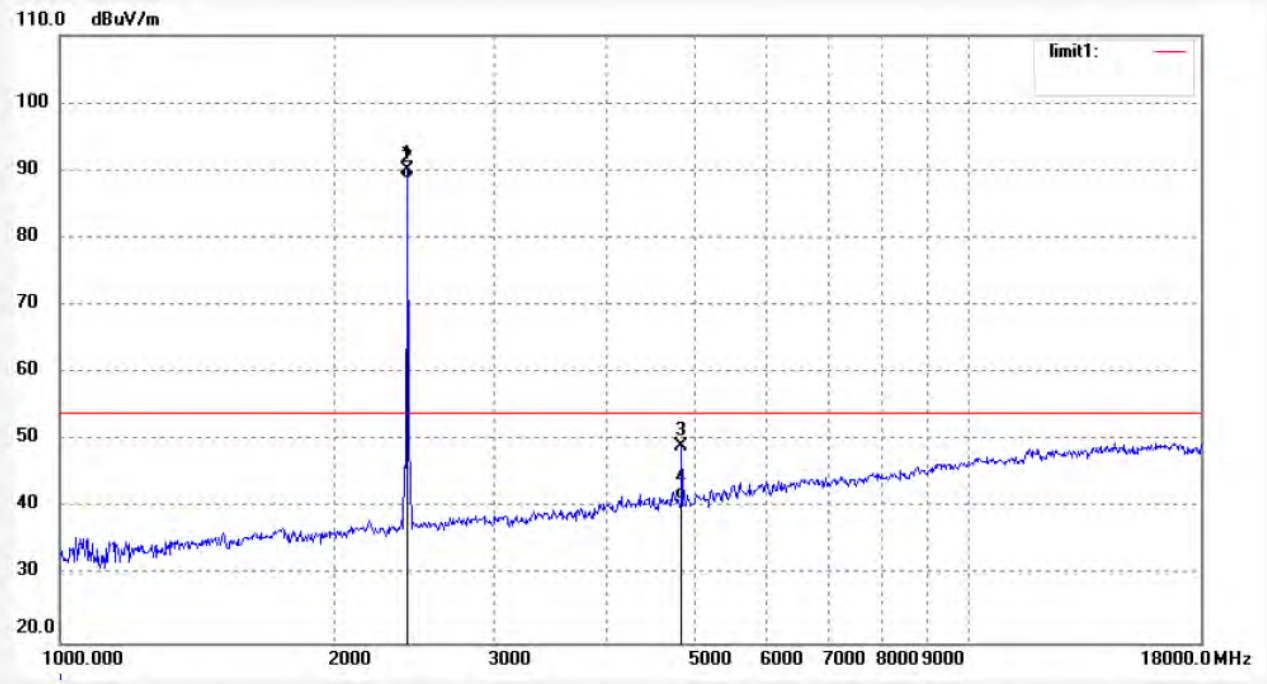
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2018 #585
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Pioneering TTL Li-ion Camera Flash
Mode: TX 2412.999634MHz
Model: V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.

Polarization: Horizontal
Power Source: DC 7.2V
Date: 18/03/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2412.999 | 89.20 | 0.93 | 90.13 | 114.00 | -23.87 | peak | | | |
| 2 | 2412.999 | 87.70 | 0.93 | 88.63 | 94.00 | -5.37 | AVG | | | |
| 3 | 4825.995 | 41.47 | 7.60 | 49.07 | 74.00 | -24.93 | peak | | | |
| 4 | 4825.995 | 33.75 | 7.60 | 41.35 | 54.00 | -12.65 | AVG | | | |

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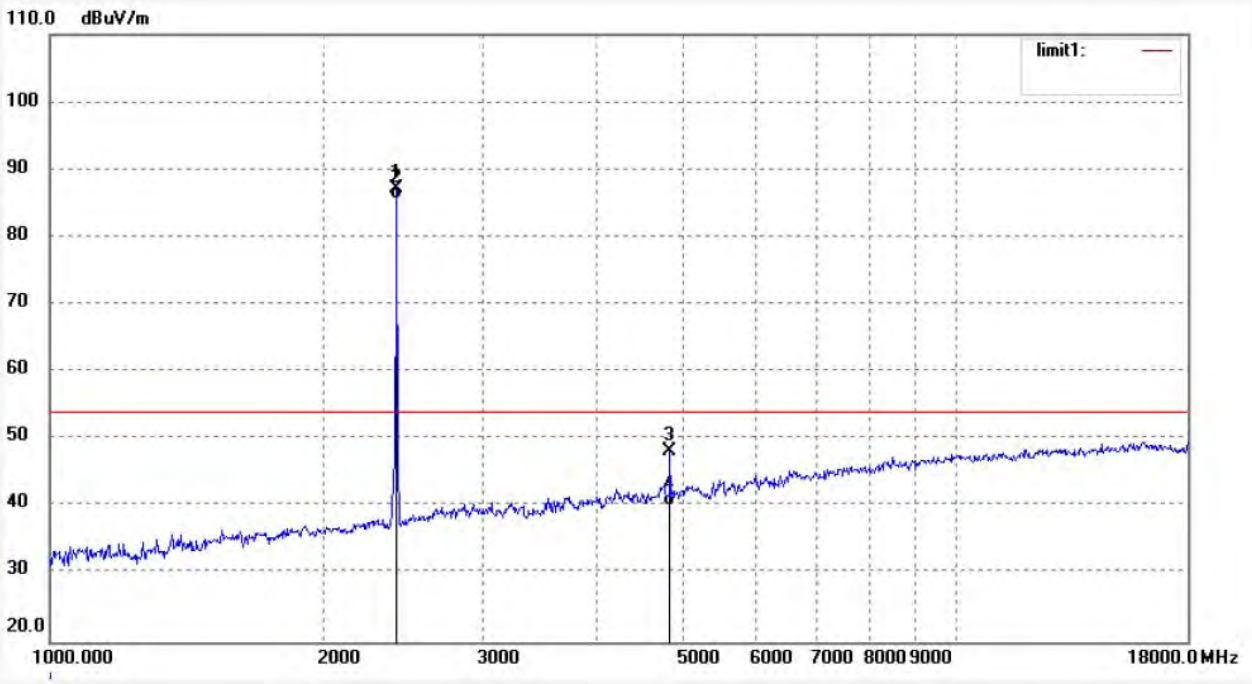
Fax:+86-0755-26503396

Job No.: LGW2018 #586
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Pioneering TTL Li-ion Camera Flash
Mode: TX 2412.999634MHz
Model: V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.

Polarization: Vertical
Power Source: DC 7.2V
Date: 18/03/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2412.999 | 86.16 | 0.93 | 87.09 | 114.00 | -26.91 | peak | | | |
| 2 | 2412.999 | 84.66 | 0.93 | 85.59 | 94.00 | -8.41 | AVG | | | |
| 3 | 4825.998 | 40.71 | 7.60 | 48.31 | 74.00 | -25.69 | peak | | | |
| 4 | 4825.998 | 32.62 | 7.60 | 40.22 | 54.00 | -13.78 | AVG | | | |

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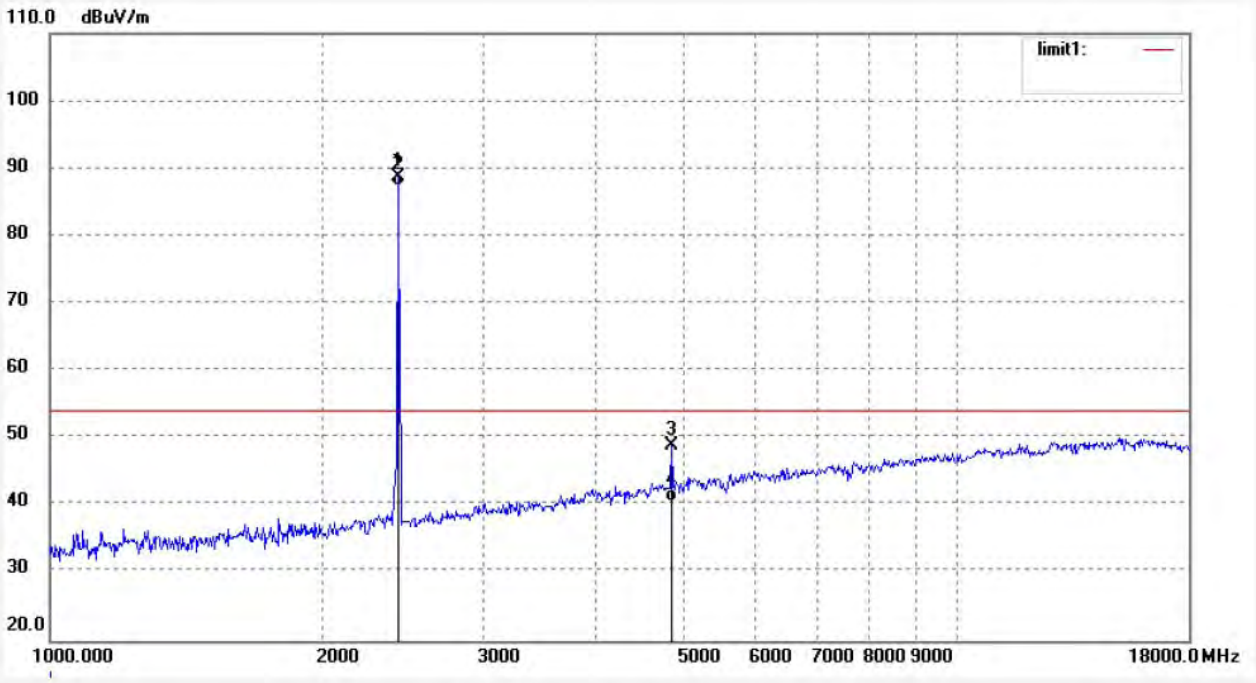
Job No.: LGW2018 #589
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Pioneering TTL Li-ion Camera Flash
Mode: TX 2424.5MHz
Model: V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.

Polarization: Horizontal
Power Source: DC 7.2V
Date: 18/03/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2424.500 | 87.69 | 0.98 | 88.67 | 114.00 | -25.33 | peak | | | |
| 2 | 2424.500 | 86.39 | 0.98 | 87.37 | 94.00 | -6.63 | AVG | | | |
| 3 | 4848.987 | 41.11 | 7.80 | 48.91 | 74.00 | -25.09 | peak | | | |
| 4 | 4848.987 | 32.85 | 7.80 | 40.65 | 54.00 | -13.35 | AVG | | | |

ACCURATE TECHNOLOGY CO., LTD.
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Site: 2# Chamber
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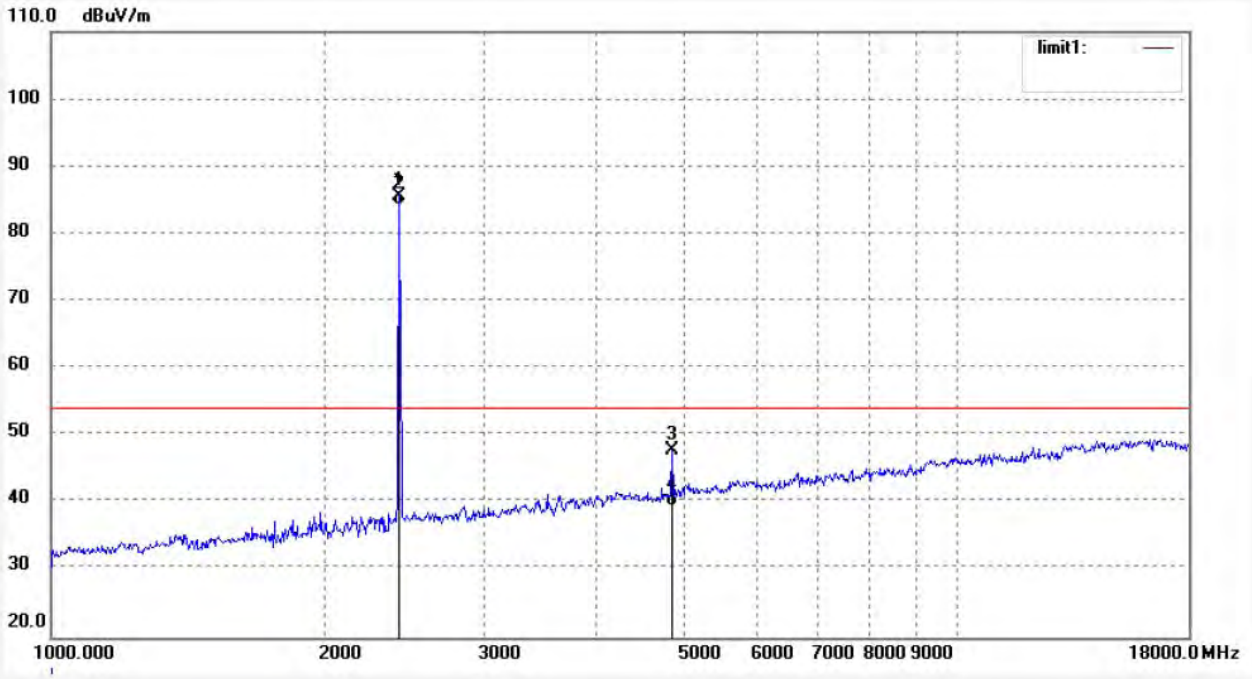
Fax:+86-0755-26503396

Job No.: LGW2018 #590
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Pioneering TTL Li-ion Camera Flash
Mode: TX 2424.5MHz
Model: V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.

Polarization: Vertical
Power Source: DC 7.2V
Date: 18/03/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2424.500 | 84.57 | 0.98 | 85.55 | 114.00 | -28.45 | peak | | | |
| 2 | 2424.500 | 83.27 | 0.98 | 84.25 | 94.00 | -9.75 | AVG | | | |
| 3 | 4848.990 | 39.92 | 7.80 | 47.72 | 74.00 | -26.28 | peak | | | |
| 4 | 4848.990 | 31.76 | 7.80 | 39.56 | 54.00 | -14.44 | AVG | | | |

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
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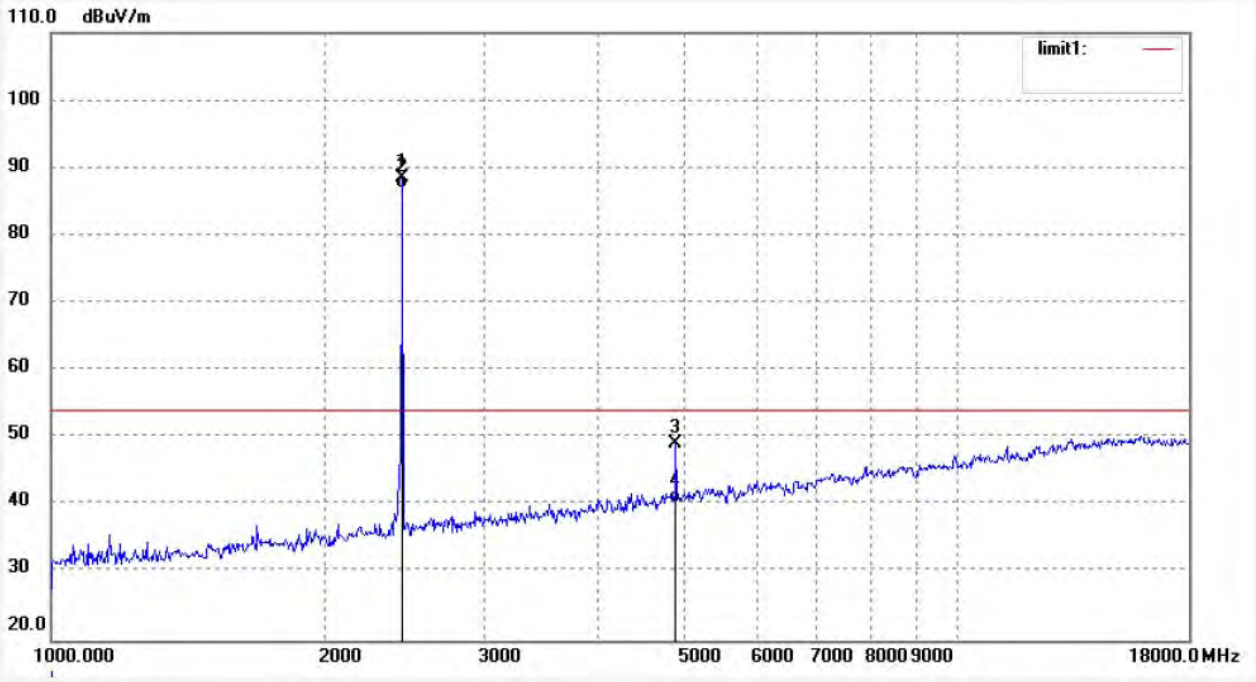
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2018 #592
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Pioneering TTL Li-ion Camera Flash
Mode: TX 2437.999878MHz
Model: V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.

Polarization: Horizontal
Power Source: DC 7.2V
Date: 18/03/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2437.999 | 87.43 | 1.04 | 88.47 | 114.00 | -25.53 | peak | | | |
| 2 | 2437.999 | 85.93 | 1.04 | 86.97 | 94.00 | -7.03 | AVG | | | |
| 3 | 4876.121 | 41.17 | 8.06 | 49.23 | 74.00 | -24.77 | peak | | | |
| 4 | 4876.121 | 32.29 | 8.06 | 40.35 | 54.00 | -13.65 | AVG | | | |

ACCURATE TECHNOLOGY CO., LTD.
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Site: 2# Chamber
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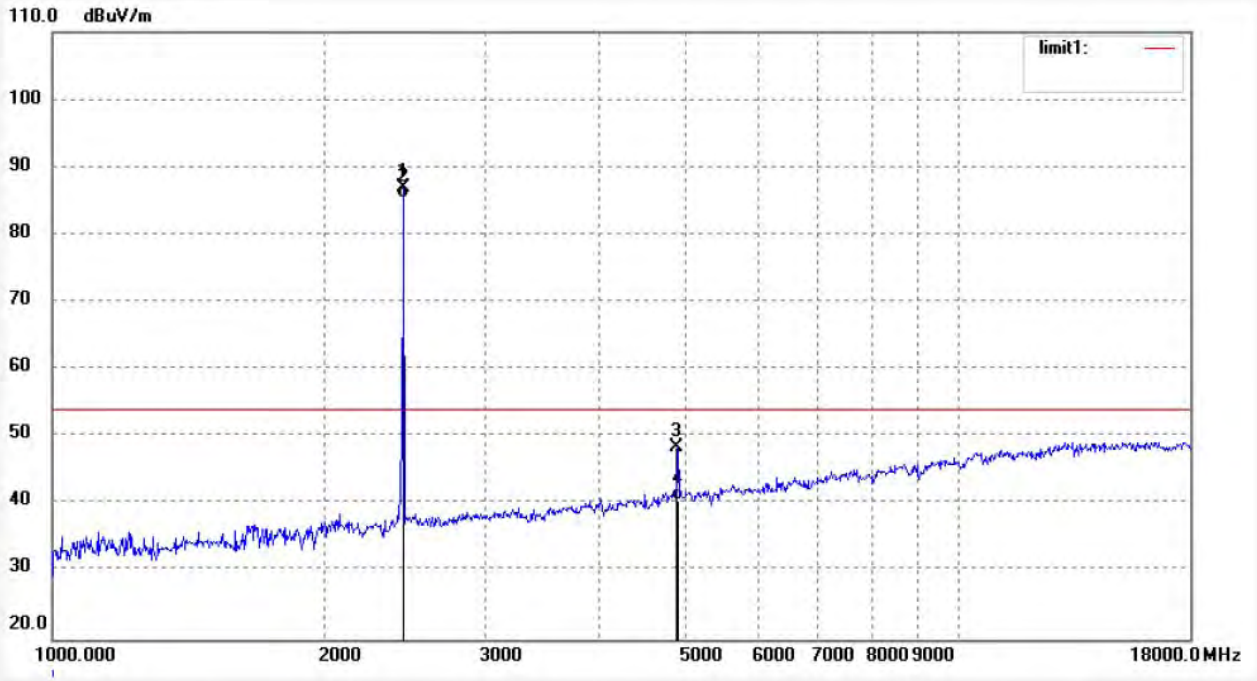
Fax:+86-0755-26503396

Job No.: LGW2018 #591
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Pioneering TTL Li-ion Camera Flash
Mode: TX 2437.999878MHz
Model: V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.

Polarization: Vertical
Power Source: DC 7.2V
Date: 18/03/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2437.999 | 85.83 | 1.04 | 86.87 | 114.00 | -27.13 | peak | | | |
| 2 | 2437.999 | 84.33 | 1.04 | 85.37 | 94.00 | -8.63 | AVG | | | |
| 3 | 4876.075 | 40.31 | 8.06 | 48.37 | 74.00 | -25.63 | peak | | | |
| 4 | 4876.075 | 32.51 | 8.06 | 40.57 | 54.00 | -13.43 | AVG | | | |

18GHz-26.5GHz

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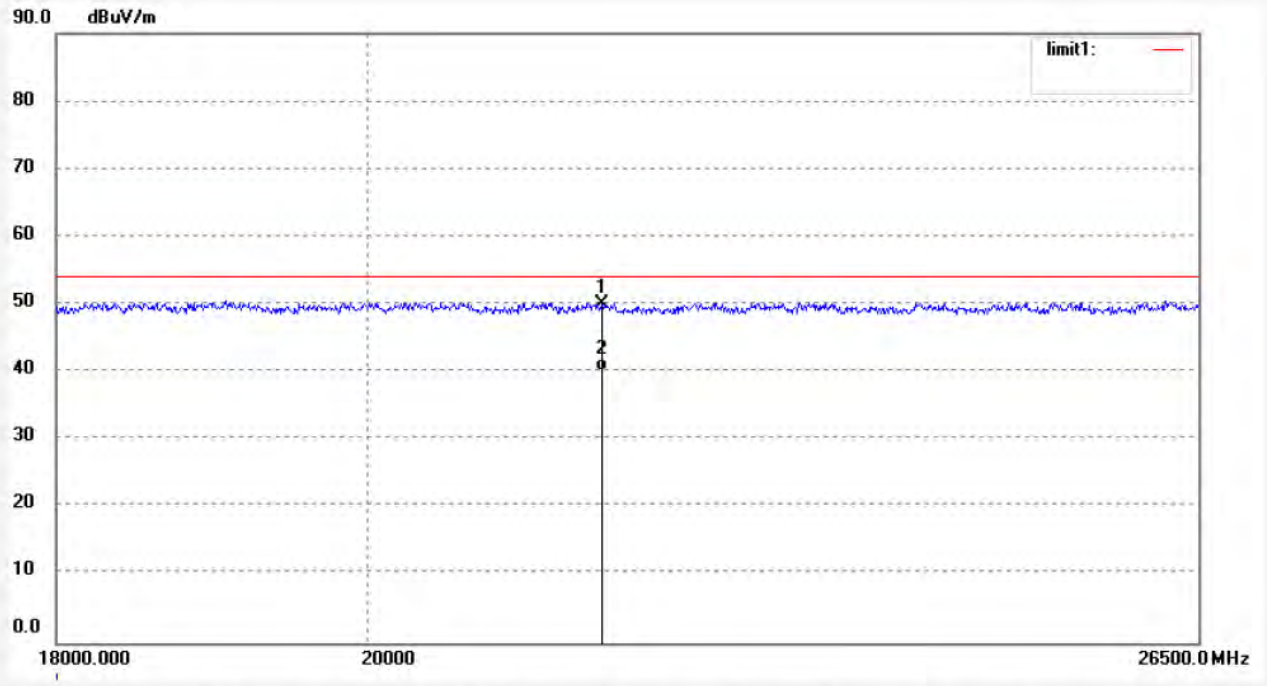
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2018 #596
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Pioneering TTL Li-ion Camera Flash
Mode: TX 2412.999634MHz
Model: V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.

Polarization: Horizontal
Power Source: DC 7.2V
Date: 18/03/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 21655.279 | 11.35 | 38.80 | 50.15 | 74.00 | -23.85 | peak | | | |
| 2 | 21655.279 | 1.43 | 38.80 | 40.23 | 54.00 | -13.77 | AVG | | | |

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Site: 2# Chamber
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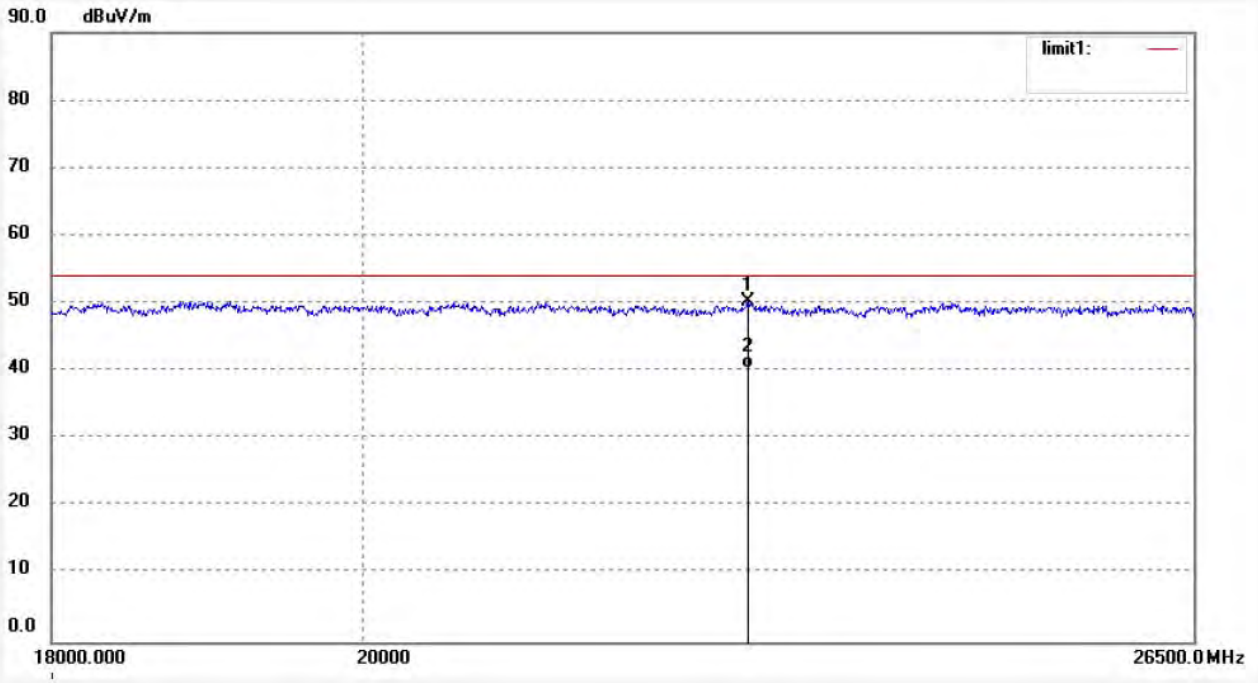
Fax:+86-0755-26503396

Job No.: LGW2018 #595
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Pioneering TTL Li-ion Camera Flash
Mode: TX 2412.999634MHz
Model: V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.

Polarization: Vertical
Power Source: DC 7.2V
Date: 18/03/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 22789.577 | 10.55 | 39.64 | 50.19 | 74.00 | -23.81 | peak | | | |
| 2 | 22789.577 | 0.71 | 39.64 | 40.35 | 54.00 | -13.65 | AVG | | | |

ACCURATE TECHNOLOGY CO., LTD.
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Site: 2# Chamber
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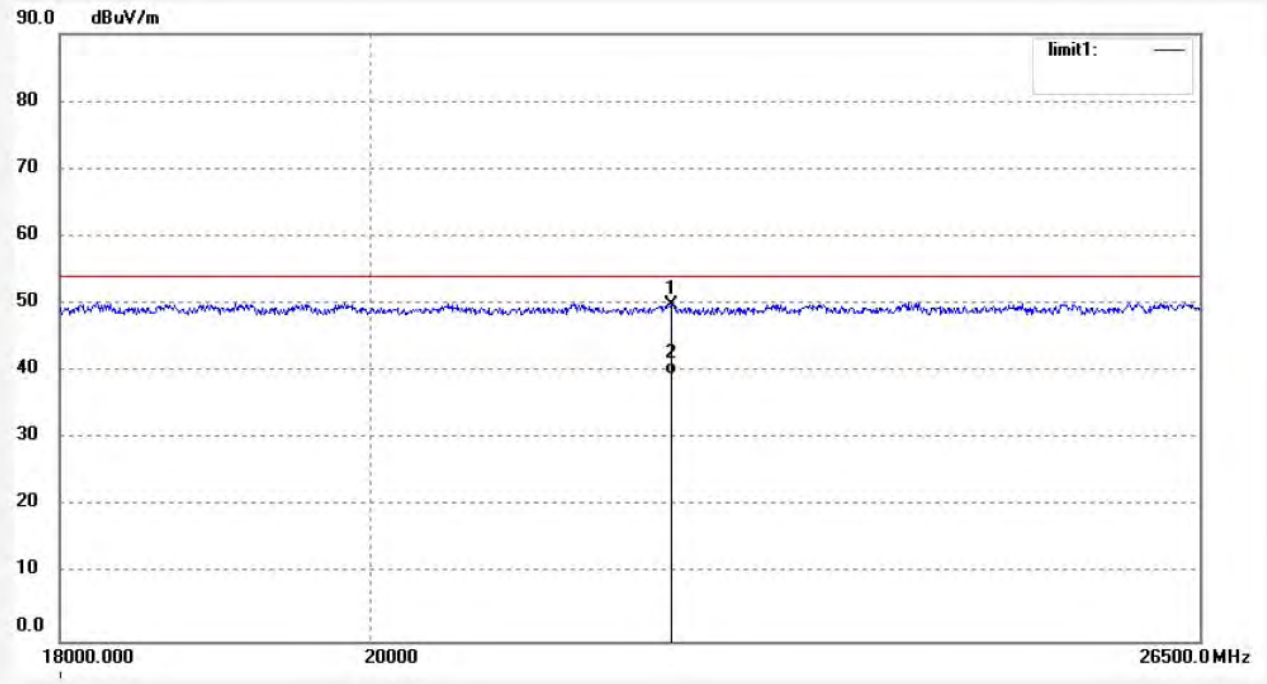
Job No.: LGW2018 #597
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Pioneering TTL Li-ion Camera Flash
Mode: TX 2424.5MHz
Model: V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.

Polarization: Horizontal
Power Source: DC 7.2V
Date: 18/03/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 22155.125 | 10.38 | 39.54 | 49.92 | 74.00 | -24.08 | peak | | | |
| 2 | 22155.125 | 0.00 | 39.54 | 39.54 | 54.00 | -14.46 | AVG | | | |

ACCURATE TECHNOLOGY CO., LTD.
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Site: 2# Chamber
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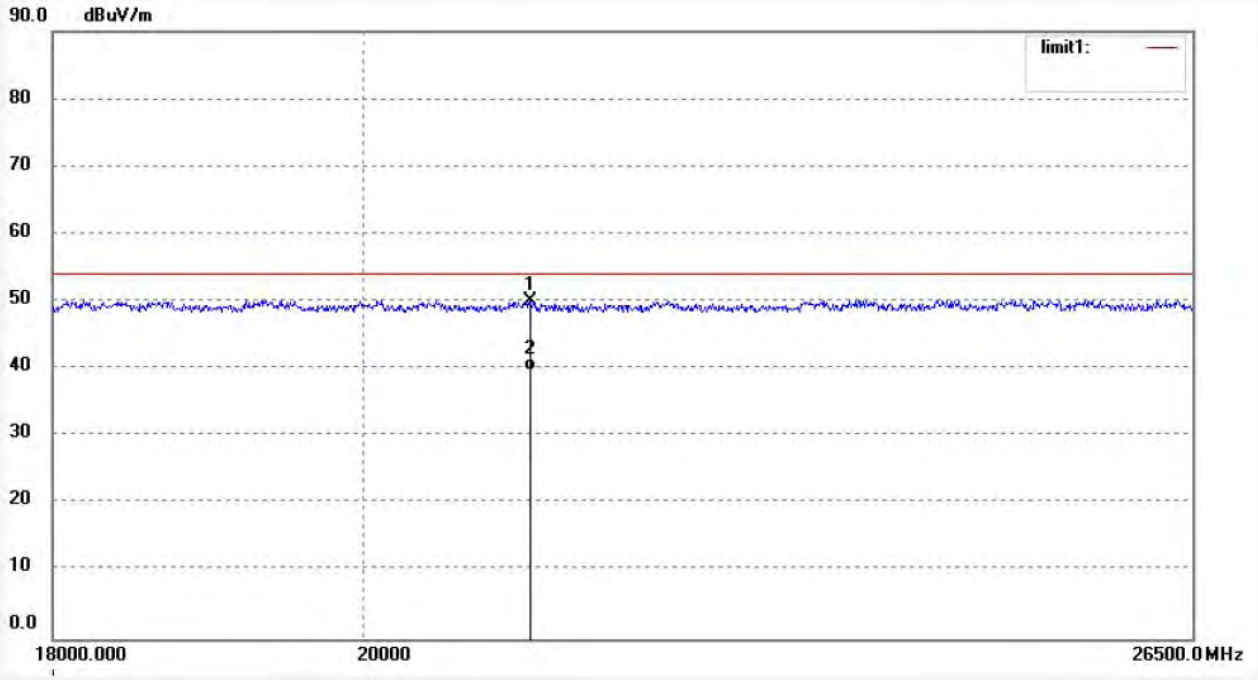
Job No.: LGW2018 #598
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Pioneering TTL Li-ion Camera Flash
Mode: TX 2424.5MHz
Model: V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.

Polarization: Vertical
Power Source: DC 7.2V
Date: 18/03/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 21166.709 | 10.61 | 39.37 | 49.98 | 74.00 | -24.02 | peak | | | |
| 2 | 21166.709 | 0.27 | 39.37 | 39.64 | 54.00 | -14.36 | AVG | | | |

ACCURATE TECHNOLOGY CO., LTD.
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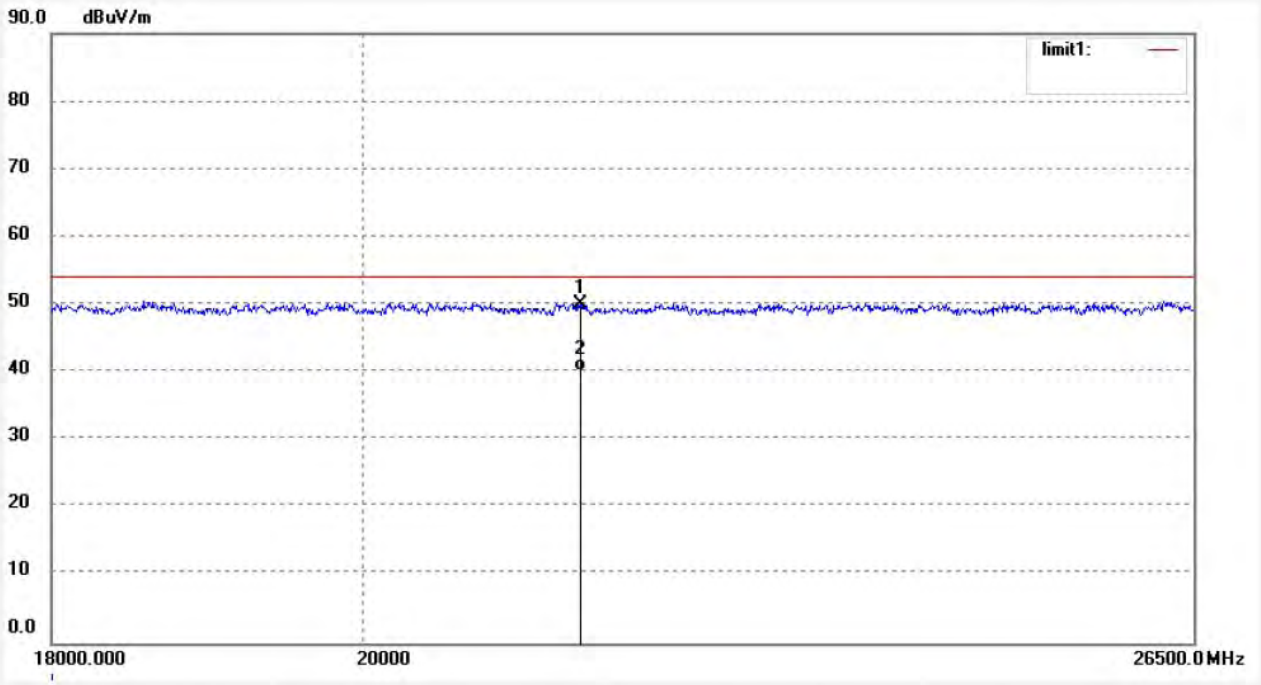
Job No.: LGW2018 #600
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Pioneering TTL Li-ion Camera Flash
Mode: TX 2437.999878MHz
Model: V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.

Polarization: Horizontal
Power Source: DC 7.2V
Date: 18/03/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:



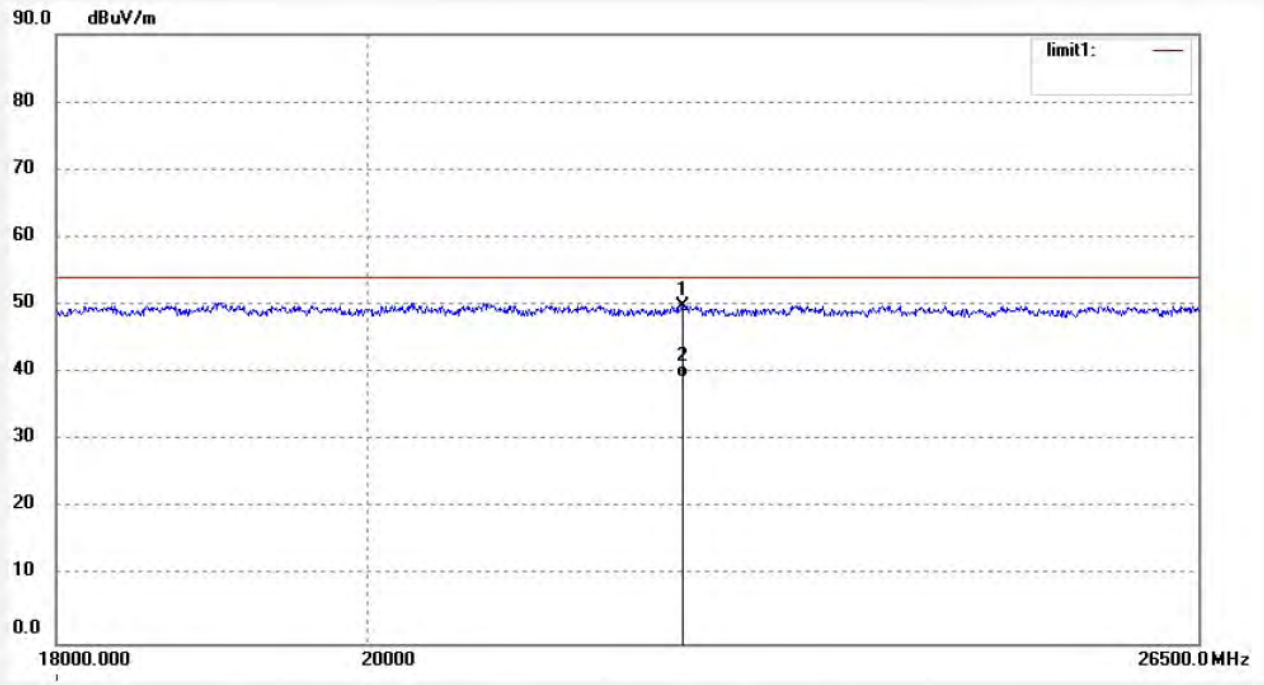

| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 21530.007 | 11.45 | 38.57 | 50.02 | 74.00 | -23.98 | peak | | | |
| 2 | 21530.007 | 1.64 | 38.57 | 40.21 | 54.00 | -13.79 | AVG | | | |

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2018 #599
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Pioneering TTL Li-ion Camera Flash
Mode: TX 2437.999878MHz
Model: V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.

Polarization: Vertical
Power Source: DC 7.2V
Date: 18/03/14/
Time:
Engineer Signature: WADE
Distance: 3m

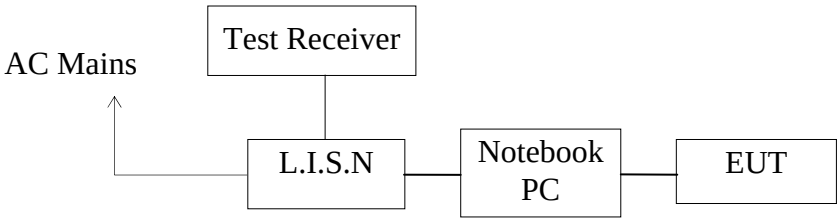
Note:




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 22258.192 | 10.59 | 39.30 | 49.89 | 74.00 | -24.11 | peak | | | |
| 2 | 22258.192 | 0.05 | 39.30 | 39.35 | 54.00 | -14.65 | AVG | | | |

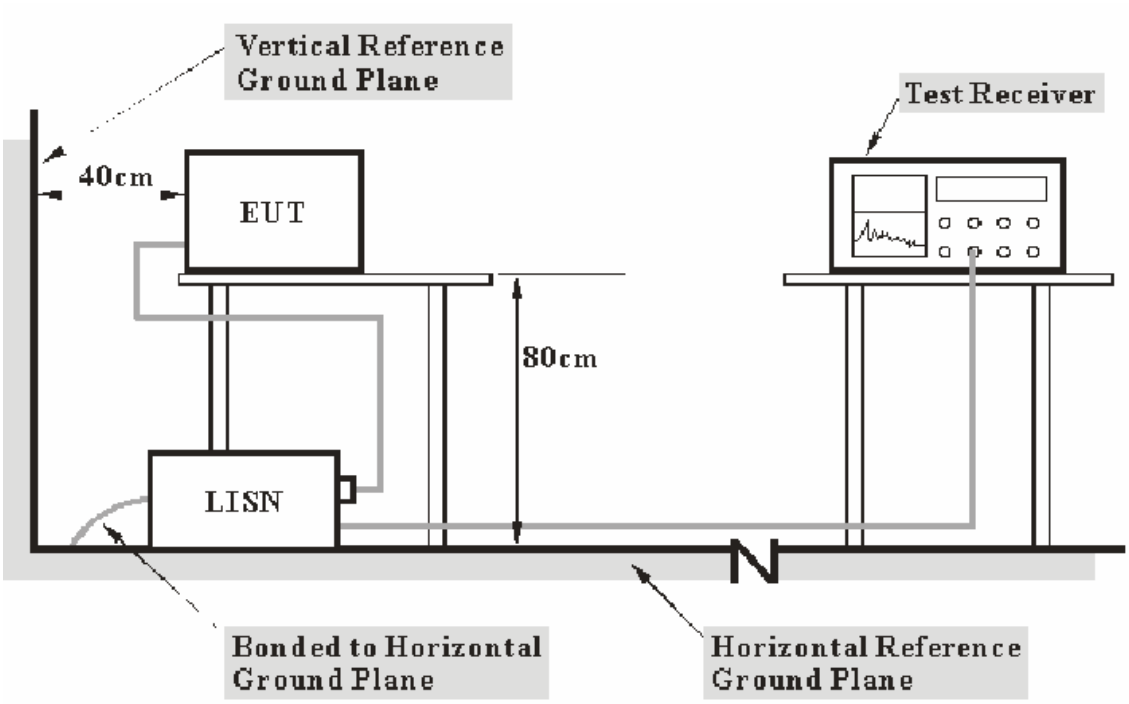
# 9. AC POWER LINE CONDUCTED EMISSION TEST

## 9.1.Block Diagram of Test Setup




(EUT: Pioneering TTL Li-ion Camera Flash)

## 9.2.Test System 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.

## 9.3. The Limits for FCC Section 15.207 & RSS-Gen Section 8.8

| Frequency (MHz) | Limit dB(μV) | |
|---|---|---|
| | Quasi-peak Level | Average Level |
| 0.15 - 0.50 | 66.0 – 56.0 * | 56.0 – 46.0 * |
| 0.50 - 5.00 | 56.0 | 46.0 |
| 5.00 - 30.00 | 60.0 | 50.0 |
| NOTE1: The lower limit shall apply at the transition frequencies.<br>NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz. | | |

## 9.4. Configuration of EUT on Measurement

The equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

## 9.5. Operating Condition of EUT

9.5.1. Setup the EUT and simulator as shown as Section 9.1.

9.5.2. Turn on the power of all equipment.

9.5.3. Let the EUT work in test mode and measure it.

## 9.6. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2014 on Conducted Emission Measurement.
The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

## 9.7.Data Sample

| Frequency (MHz) | Transducer value (dB) | QuasiPeak Level (dBμV) | Average Level (dBμV) | QuasiPeak Limit (dBμV) | Average Limit (dBμV) | QuasiPeak Margin (dB) | Average Margin (dB) | Remark (Pass/Fail) |
|---|---|---|---|---|---|---|---|---|
| X.XX | 10.5 | 51.1 | 34.2 | 56.0 | 46.0 | 4.9 | 11.8 | Pass |

Frequency(MHz) = Emission frequency in MHz
Transducer value(dB) = Insertion loss of LISN + Cable Loss
Level(dBμV) = Quasi-peak Reading/Average Reading + Transducer value
Limit (dBμV) = Limit stated in standard
Margin = Limit (dBμV) - Level (dBμV)

Calculation Formula:
Margin = Limit (dBμV) - Level (dBμV)

## 9.8.Power Line Conducted Emission Measurement Results

**PASS.**

The frequency range from 150kHz to 30MHz is checked.

Test mode : TX Communication (AC 120V/60Hz)

***MEASUREMENT RESULT: "TUV-0316-01_fin"***

3/16/2018

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 0.150000 | 57.30 | 10.5 | 66 | 8.7 | QP | L1 | GND |
| 0.480000 | 39.30 | 10.7 | 56 | 17.0 | QP | L1 | GND |
| 15.805000 | 27.90 | 11.4 | 60 | 32.1 | QP | L1 | GND |

***MEASUREMENT RESULT: "TUV-0316-01_fin2"***

3/16/2018

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 0.155000 | 40.00 | 10.5 | 56 | 15.7 | AV | L1 | GND |
| 0.490000 | 35.60 | 10.7 | 46 | 10.6 | AV | L1 | GND |
| 3.140000 | 20.40 | 11.1 | 46 | 25.6 | AV | L1 | GND |

***MEASUREMENT RESULT: "TUV-0316-02_fin"***

3/16/2018

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 0.150000 | 55.30 | 10.5 | 66 | 10.7 | QP | N | GND |
| 0.480000 | 39.20 | 10.7 | 56 | 17.1 | QP | N | GND |
| 2.810000 | 30.80 | 11.0 | 56 | 25.2 | QP | N | GND |

***MEASUREMENT RESULT: "TUV-0316-02_fin2"***

3/16/2018

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 0.150000 | 40.70 | 10.5 | 56 | 15.3 | AV | N | GND |
| 0.485000 | 35.80 | 10.7 | 46 | 10.5 | AV | N | GND |
| 2.580000 | 25.50 | 11.0 | 46 | 20.5 | AV | N | GND |

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.

***ACCURATE TECHNOLOGY CO.,LTD***

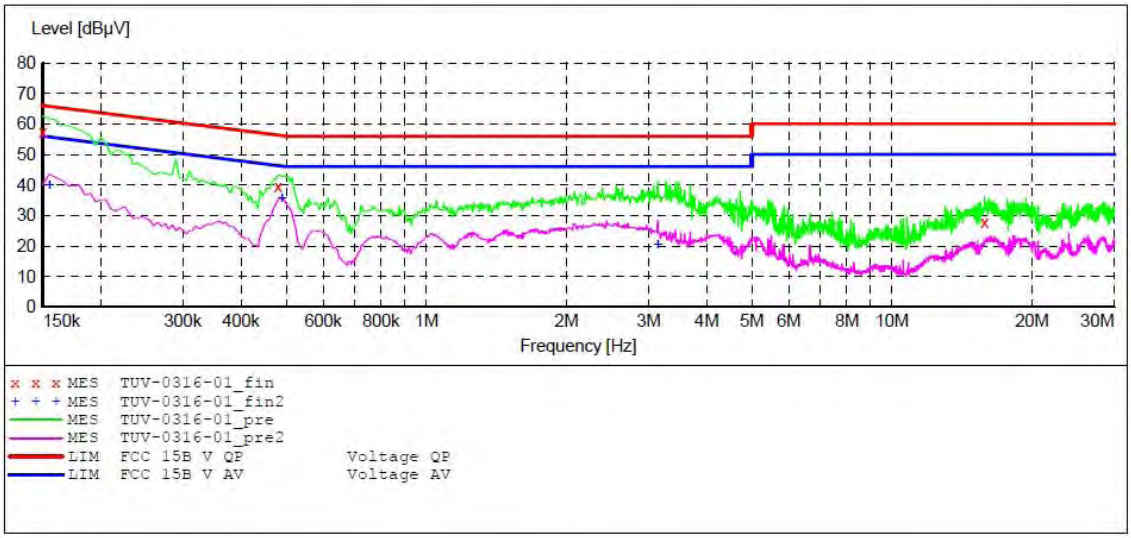
***CONDUCTED EMISSION STANDARD FCC PART 15 C***

EUT: Pioneering TTL Li-ion Camera Flash M/N:V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.
Operating Condition: TX
Test Site: 1#Shielding Room
Operator: WADE
Test Specification: L 120V/60Hz
Comment: Mains Port
Start of Test: 3/16/2018 /

***SCAN TABLE: "V 9K-30MHz fin"***

Short Description: _SUB_STD_VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
|---|---|---|---|---|---|---|
| 9.0 kHz | 150.0 kHz | 100.0 Hz | QuasiPeak<br>Average | 1.0 s | 200 Hz | NSLK8126 2008 |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | QuasiPeak<br>Average | 1.0 s | 9 kHz | NSLK8126 2008 |




***MEASUREMENT RESULT: "TUV-0316-01_fin"***

3/16/2018

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 0.150000 | 57.30 | 10.5 | 66 | 8.7 | QP | L1 | GND |
| 0.480000 | 39.30 | 10.7 | 56 | 17.0 | QP | L1 | GND |
| 15.805000 | 27.90 | 11.4 | 60 | 32.1 | QP | L1 | GND |

***MEASUREMENT RESULT: "TUV-0316-01_fin2"***

3/16/2018

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 0.155000 | 40.00 | 10.5 | 56 | 15.7 | AV | L1 | GND |
| 0.490000 | 35.60 | 10.7 | 46 | 10.6 | AV | L1 | GND |
| 3.140000 | 20.40 | 11.1 | 46 | 25.6 | AV | L1 | GND |

***ACCURATE TECHNOLOGY CO.,LTD***

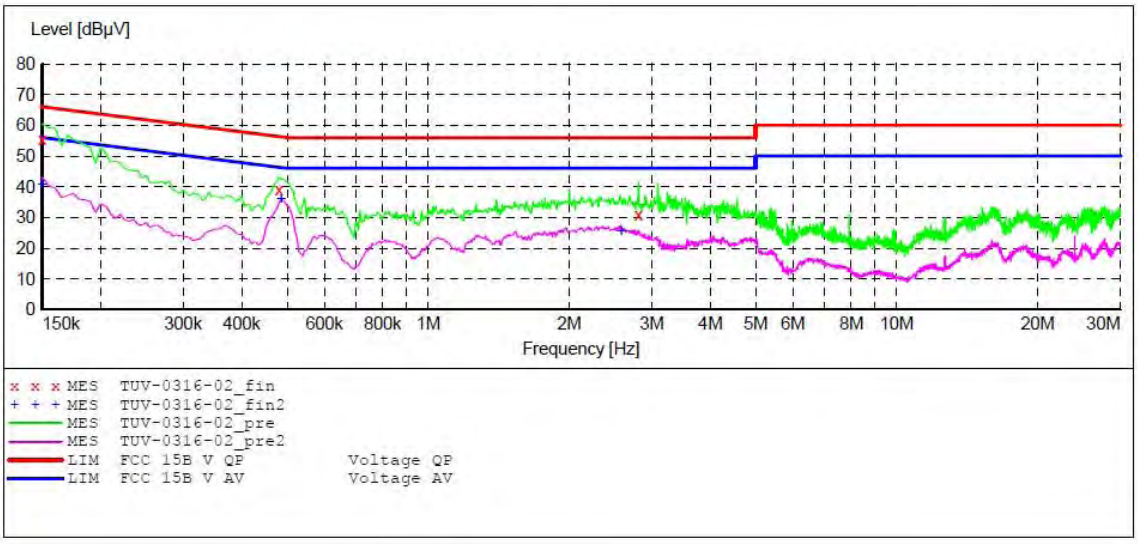
***CONDUCTED EMISSION STANDARD FCC PART 15 C***

EUT: Pioneering TTL Li-ion Camera Flash M/N:V350S
Manufacturer: GODOX Photo Equipment Co., Ltd.
Operating Condition: TX
Test Site: 1#Shielding Room
Operator: WADE
Test Specification: N 120V/60Hz
Comment: Mains Port
Start of Test: 3/16/2018 /

***SCAN TABLE: "V 9K-30MHz fin"***

Short Description: _SUB_STD_VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
|---|---|---|---|---|---|---|
| 9.0 kHz | 150.0 kHz | 100.0 Hz | QuasiPeak<br>Average | 1.0 s | 200 Hz | NSLK8126 2008 |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | QuasiPeak<br>Average | 1.0 s | 9 kHz | NSLK8126 2008 |




***MEASUREMENT RESULT: "TUV-0316-02_fin"***

3/16/2018

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 0.150000 | 55.30 | 10.5 | 66 | 10.7 | QP | N | GND |
| 0.480000 | 39.20 | 10.7 | 56 | 17.1 | QP | N | GND |
| 2.810000 | 30.80 | 11.0 | 56 | 25.2 | QP | N | GND |

***MEASUREMENT RESULT: "TUV-0316-02_fin2"***

3/16/2018

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 0.150000 | 40.70 | 10.5 | 56 | 15.3 | AV | N | GND |
| 0.485000 | 35.80 | 10.7 | 46 | 10.5 | AV | N | GND |
| 2.580000 | 25.50 | 11.0 | 46 | 20.5 | AV | N | GND |

# 10. ANTENNA REQUIREMENT

## 10.1. The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

According to Section RSS GEN 8.3, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device

## 10.2. Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Antenna gain of EUT is -0.7dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203 and RSS GEN 8.3

******* End of Test Report *******