

APPLICATION CERTIFICATION FCC Part 15C
On Behalf of
GODOX Photo Equipment Co.,Ltd

TTL Wireless Flash Trigger

Model No.: XProC, XProN, XProS, XProF, XProO

FCC ID: 2ABYNXPRO

Prepared for : GODOX Photo Equipment Co.,Ltd
Address : 19th Floor, Room 1902, Building Jinshan, 5033
Shennan East Road, Luohu District, Shenzhen
518001, China

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Report Number : ATE20172400
Date of Test : Nov. 08, 2017--Nov. 28, 2017
Date of Report : Nov. 29, 2017

TABLE OF CONTENTS

Description	Page
Test Report Certification	
1. GENERAL INFORMATION	4
1.1. Description of Device (EUT)	4
1.2. Special Accessory and Auxiliary Equipment.....	4
1.3. Model difference declaration	5
1.4. Description of Test Facility	5
1.5. Measurement Uncertainty.....	5
2. MEASURING DEVICE AND TEST EQUIPMENT	6
3. OPERATION OF EUT DURING TESTING	7
3.1. Operating Mode	7
3.2. Configuration and peripherals	7
3.3. Carrier Frequency of Channels	7
4. TEST PROCEDURES AND RESULTS	8
5. 20DB BANDWIDTH MEASUREMENT.....	9
5.1. Block Diagram of Test Setup.....	9
5.2. The Requirement For Section 15.215(c).....	9
5.3. Operating Condition of EUT	9
5.4. Test Procedure	9
5.5. Test Result	10
6. BAND EDGE COMPLIANCE TEST	12
6.1. Block Diagram of Test Setup.....	12
6.2. The Requirement For Section 15.249.....	12
6.3. EUT Configuration on Measurement	12
6.4. Operating Condition of EUT	13
6.5. Test Procedure	13
6.6. Test Result	13
7. RADIATED SPURIOUS EMISSION TEST	18
7.1. Block Diagram of Test Setup.....	18
7.2. The Limit For Section 15.249.....	19
7.3. Restricted bands of operation	20
7.4. Configuration of EUT on Measurement	20
7.5. Operating Condition of EUT	21
7.6. Test Procedure	21
7.7. The Field Strength of Radiation Emission Measurement Results	22
8. ANTENNA REQUIREMENT.....	50
8.1. The Requirement	50
8.2. Antenna Construction	50

Test Report Certification

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
Product : TTL Wireless Flash Trigger
Model No. : XProC, XProN, XProS, XProF, XProO
Trade name : n.a

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.249
ANSI C63.10: 2013

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 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 : Nov. 08, 2017-Nov. 28, 2017
Date of Report : Nov. 29, 2017

Prepared by : 
(Tim, Testing Engineer)

Approved & Authorized Signer : 
(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	TTL Wireless Flash Trigger
Model No.	:	XProC, XProN, XProS, XProF, XProO
Power Supply	:	DC 3V(Powered by battery)
Operate Frequency	:	2413.0-2464.5MHz
Number of channel	:	32
Chanel spacing	:	1.5MHz
Modulation mode	:	MSK
Antenna Gain	:	0dBi
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	:	Nov. 08, 2017
Date of Test	:	Nov. 08, 2017-Nov. 28, 2017

1.2. Special Accessory and Auxiliary Equipment

N/A

1.3.Model difference declaration

XProC, XProN, XProS, XProF, XProO are identical in PCB motherboard, driver IC, RF module and Enclosure except the Hot Shoe Camera Connector applied to various camera types.

All models were conducted test, only reported the worst case in this test report.

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 (ISED) 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. 07, 2017	One Year
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 07, 2017	One Year
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 07, 2017	One Year
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 07, 2017	One Year
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 13, 2017	One Year
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 13, 2017	One Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 13, 2017	One Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1067	Jan. 13, 2017	One Year
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 07, 2017	One Year
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 07, 2017	One Year
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 07, 2017	One Year
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 07, 2017	One Year

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The mode is used: **Transmitting mode**

Low Channel: 2413.0MHz

Middle Channel: 2438.0MHz

High Channel: 2464.5MHz

3.2.Configuration and peripherals

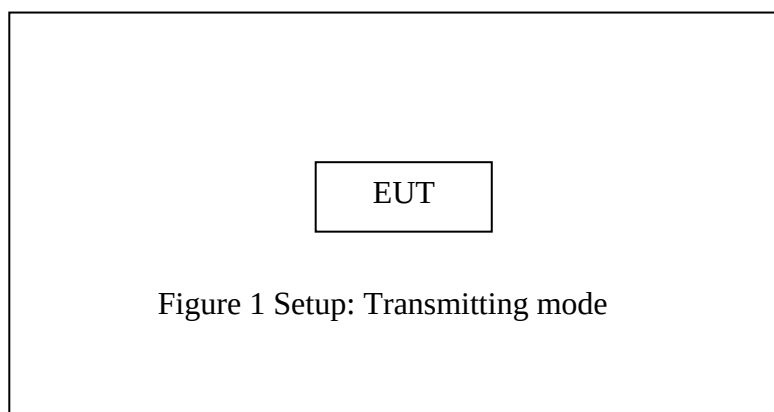


Figure 1 Setup: Transmitting mode

3.3.Carrier Frequency of Channels

Frequency Channel

Channel Number	Frequency (GHz)	Channel Number	Frequency (GHz)
1	2.412999634	17	2.439499908
2	2.414499664	18	2.440999939
3	2.415999695	19	2.442999847
4	2.418000000	20	2.444499878
5	2.419499634	21	2.445999908
6	2.420999664	22	2.447999817
7	2.422999969	23	2.449499847
8	2.424500000	24	2.450999878
9	2.425999634	25	2.452999786
10	2.427999939	26	2.454499817
11	2.429499969	27	2.455999847
12	2.431000000	28	2.457999756
13	2.432999908	29	2.459499786
14	2.434499939	30	2.460999817
15	2.435999969	31	2.462999725
16	2.437999878	32	2.464499756

4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.215(c)	20dB Bandwidth	Compliant
Section 15.249(d)	Band Edge Compliance Test	Compliant
Section 15.205(a), Section 15.209(a), Section 15.249, Section 15.35	Radiated Spurious Emission Test	Compliant
Section 15.207	AC Power Line Conducted Emission Test	N/A
Section 15.203	Antenna Requirement	Compliant

Note: The power supply mode of the EUT is DC 3V, According to the FCC standard requirements, conducted emission is not applicable.

5. 20DB BANDWIDTH MEASUREMENT

5.1. Block Diagram of Test Setup



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 2413.0, 2438.0, 2464.5MHz.

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.

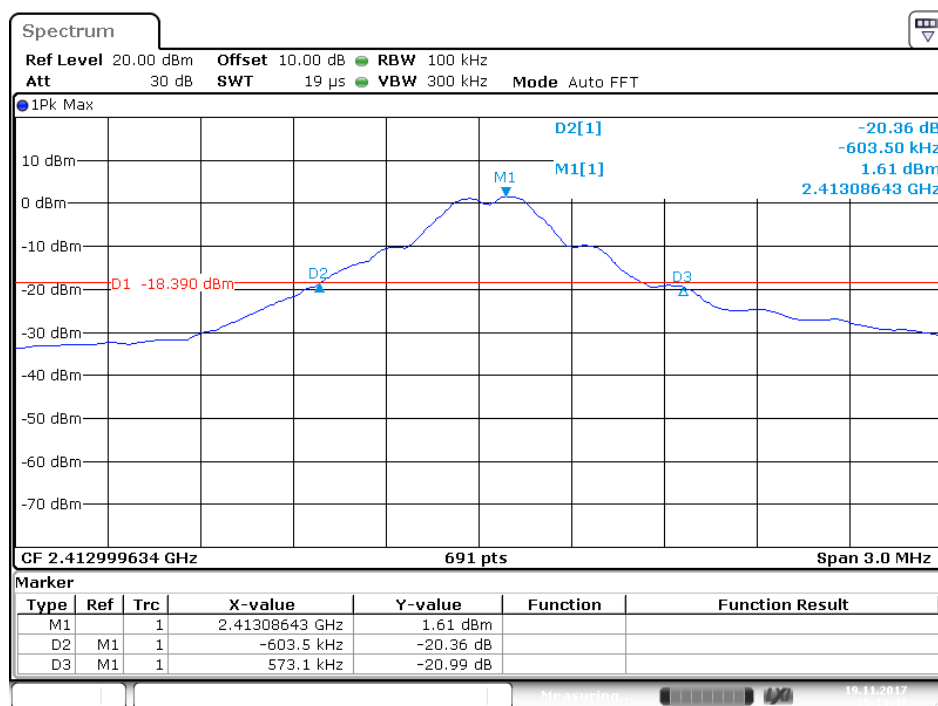
5.4.4. Set the measured low, middle and high frequency and test 20dB bandwidth with spectrum analyzer.

5.5. Test Result

Channel	Frequency(MHz)	20 dB Bandwidth(MHz)
Low	2413.0	1.1766
Middle	2438.0	1.2460
High	2464.5	1.1636

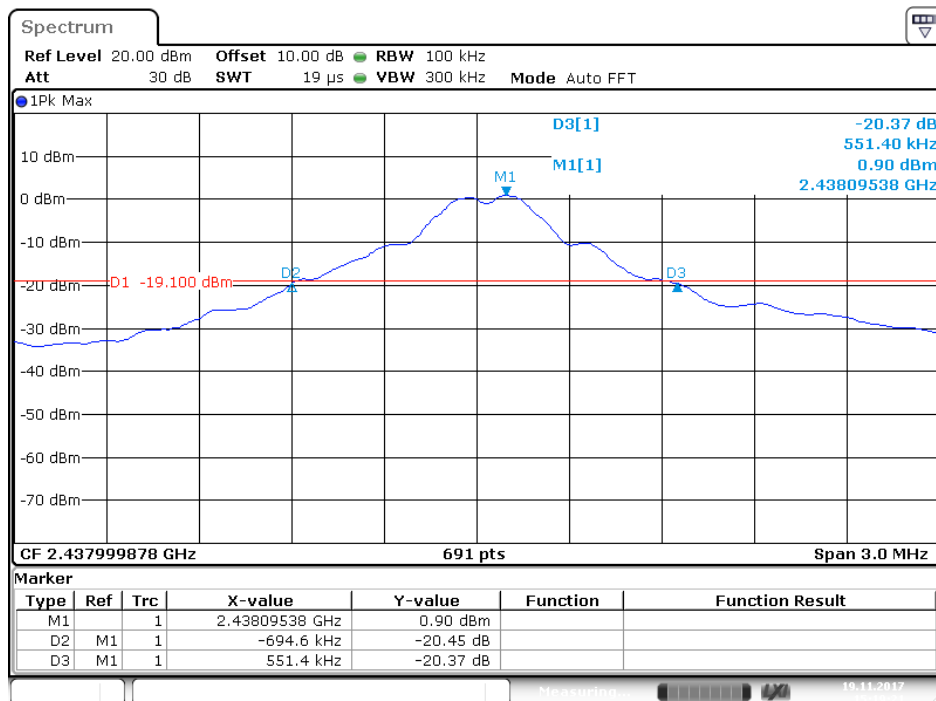
The spectrum analyzer plots are attached as below.

Low channel



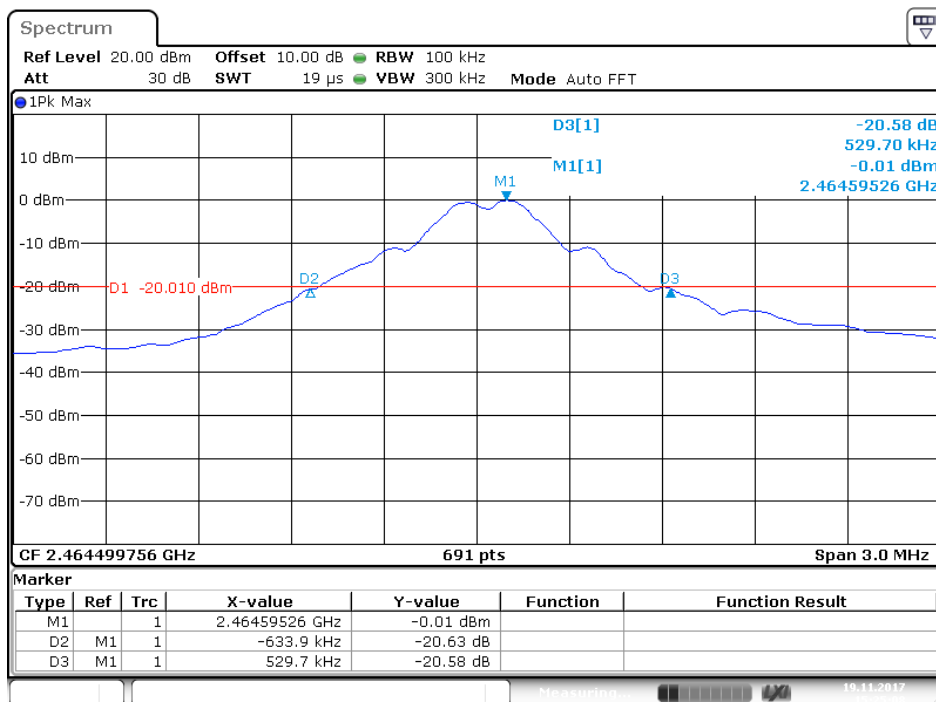
Date: 19.NOV.2017 15:14:47

Middle channel



Date: 19.NOV.2017 15:19:21

High channel

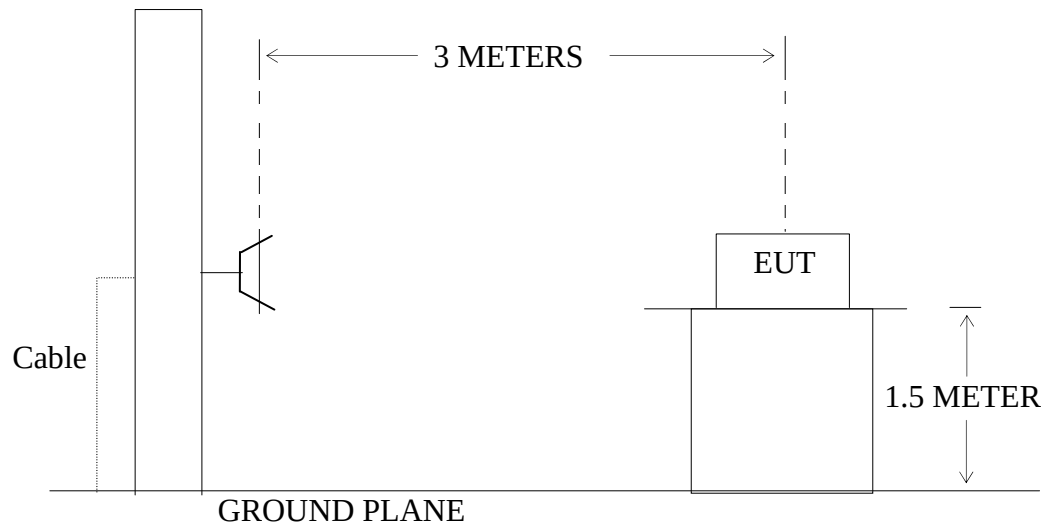


Date: 19.NOV.2017 15:25:08

6. BAND EDGE COMPLIANCE TEST

6.1. Block Diagram of Test Setup

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



6.2. 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).

6.3. 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.

6.4. Operating Condition of EUT

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

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2413.0, 2464.5MHz.

6.5. Test Procedure

Radiate Band Edge:

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

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

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

6.5.4. 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

6.5.5. The band edges was measured and recorded.

6.6. Test Result

Job No.: LGW2017 #5069

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TTL Wireless Flash Trigger

Mode: TX 2412.999634MHz

Model: XProC

Manufacturer: GODOX Photo Equipment Co.,Ltd.

Polarization: Horizontal

Power Source: DC 3V

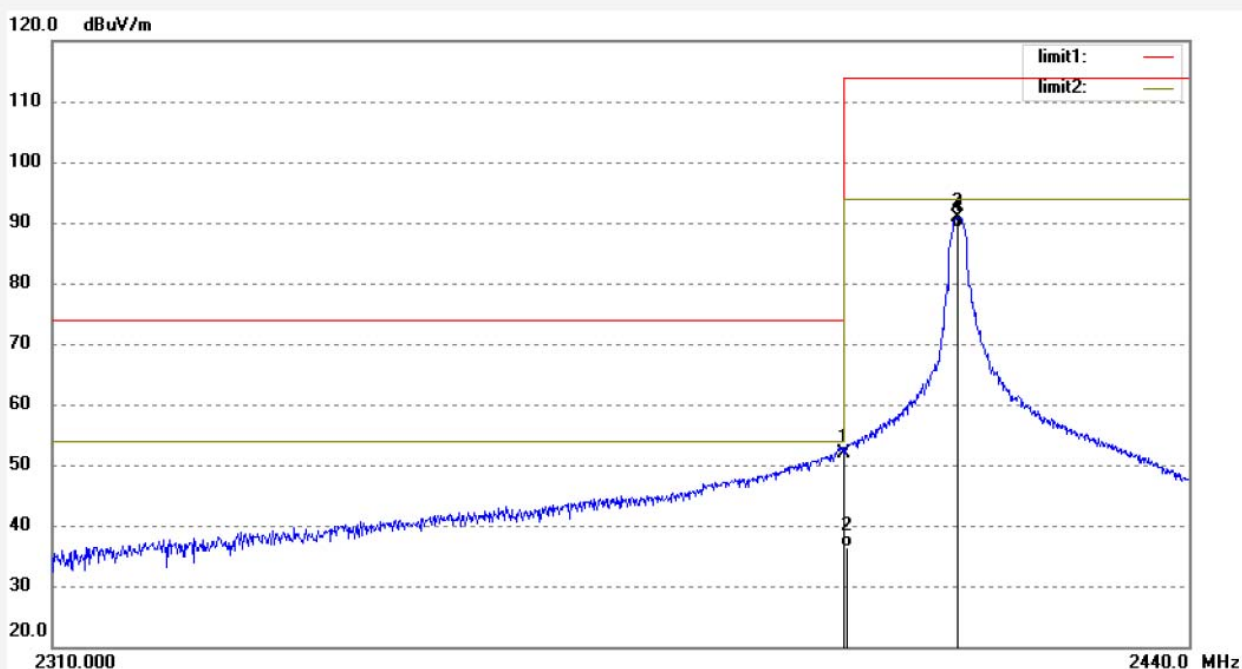
Date: 17/11/13/

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	51.06	0.88	51.94	74.00	-22.06	peak			
2	2400.000	35.53	0.88	36.41	54.00	-17.59	AVG			
3	2412.999	89.89	0.93	90.82	114.00	-23.18	peak			
4	2412.999	88.29	0.93	89.22	94.00	-4.78	AVG			

Job No.: LGW2017 #5068

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TTL Wireless Flash Trigger

Mode: TX 2412.999634MHz

Model: XProC

Manufacturer: GODOX Photo Equipment Co.,Ltd.

Polarization: Vertical

Power Source: DC 3V

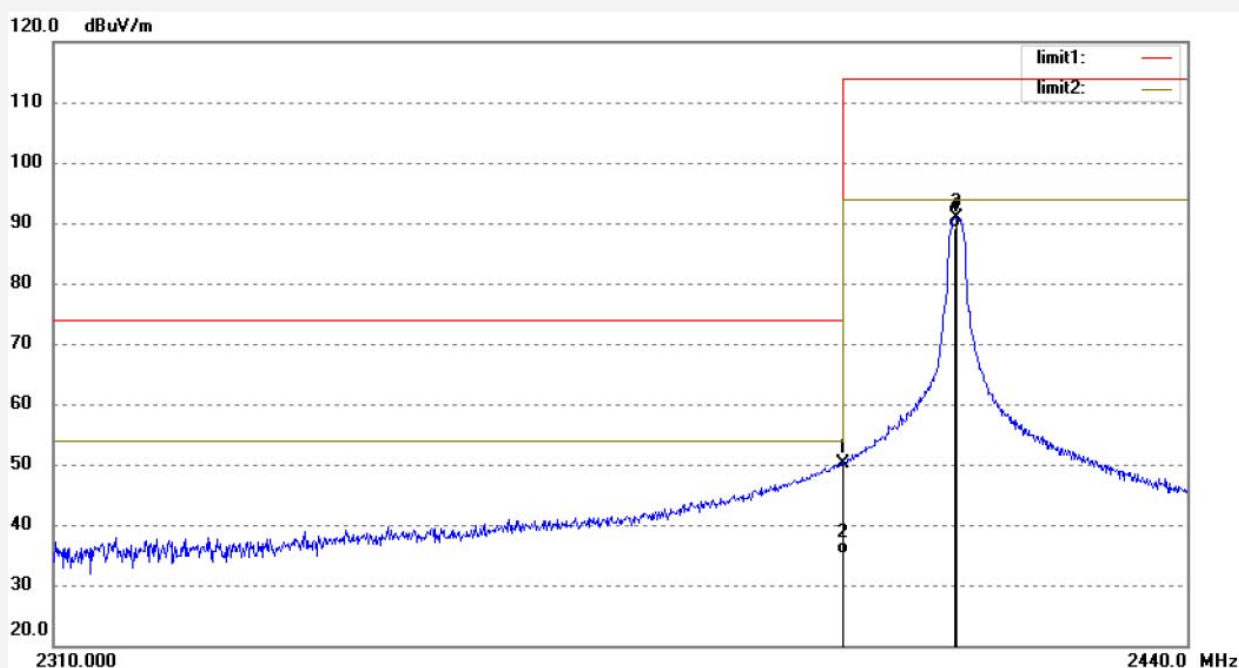
Date: 17/11/13/

Time:

Engineer Signature: WADE

Distance: 3m

Note:

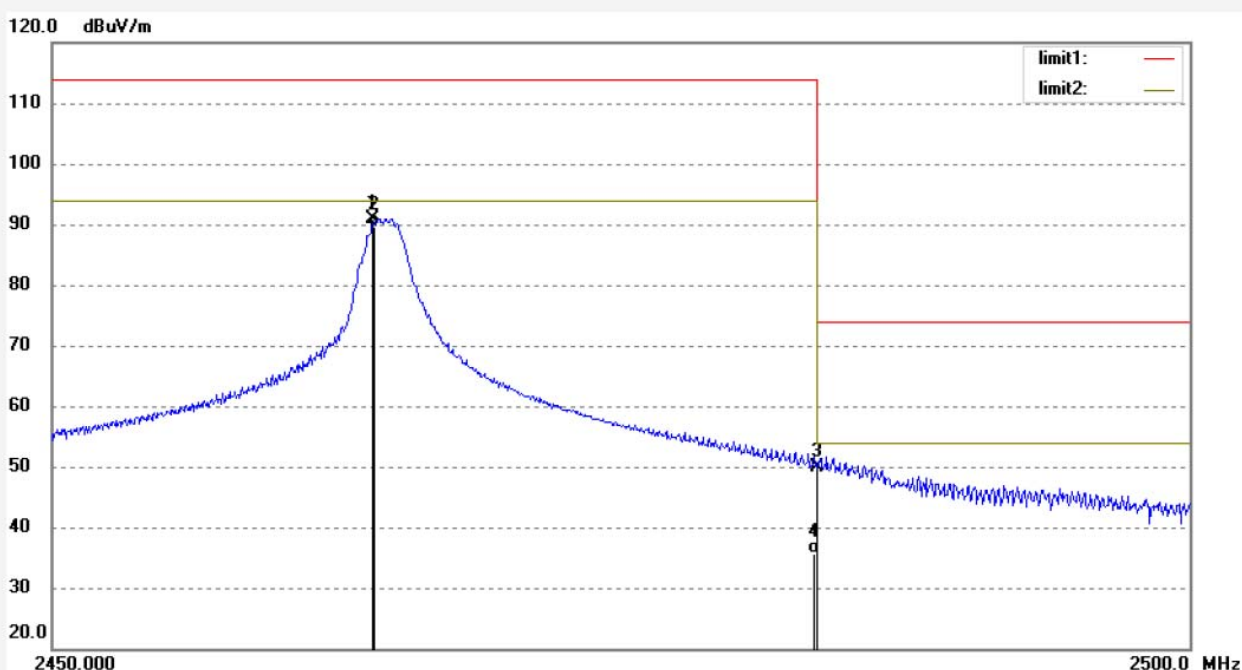


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2400.000	47.14	2.88	50.02	74.00	-23.98	peak			
2	2400.000	32.26	2.88	35.14	54.00	-18.86	AVG			
3	2412.999	87.84	2.93	90.77	114.00	-23.23	peak			
4	2412.999	86.24	2.93	89.17	94.00	-4.83	AVG			

Job No.: LGW2017 #5074
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: TTL Wireless Flash Trigger
Mode: TX 2464.499756MHz
Model: XProC
Manufacturer: GODOX Photo Equipment Co.,Ltd.

Polarization: Horizontal
Power Source: DC 3V
Date: 17/11/13/
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	2464.499	89.90	1.09	90.99	114.00	-23.01	peak			
2	2464.499	88.50	1.09	89.59	94.00	-4.41	AVG			
3	2483.500	48.70	1.10	49.80	74.00	-24.20	peak			
4	2483.500	34.52	1.10	35.62	54.00	-18.38	AVG			

Job No.: LGW2017 #5075

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TTL Wireless Flash Trigger

Mode: TX 2464.499756MHz

Model: XProC

Manufacturer: GODOX Photo Equipment Co.,Ltd.

Polarization: Vertical

Power Source: DC 3V

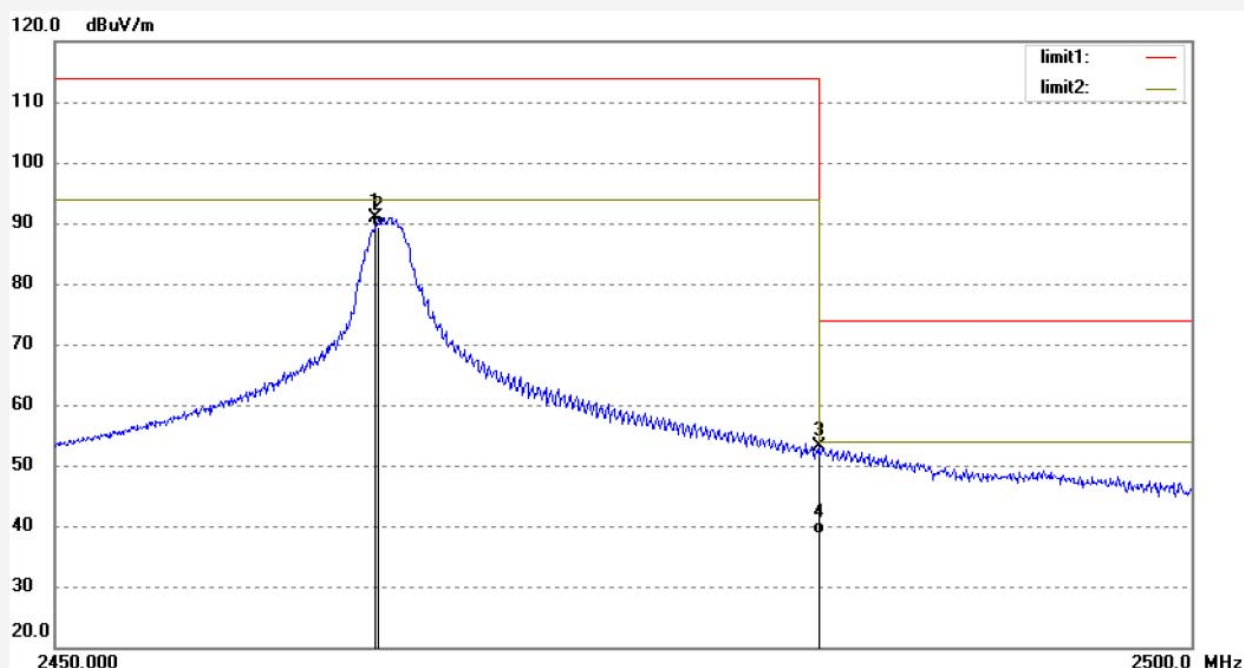
Date: 17/11/13/

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	2464.499	87.78	3.09	90.87	114.00	-23.13	peak			
2	2464.499	86.38	3.09	89.47	94.00	-4.53	AVG			
3	2483.500	49.96	3.10	53.06	74.00	-20.94	peak			
4	2483.500	35.57	3.10	38.67	54.00	-15.33	AVG			

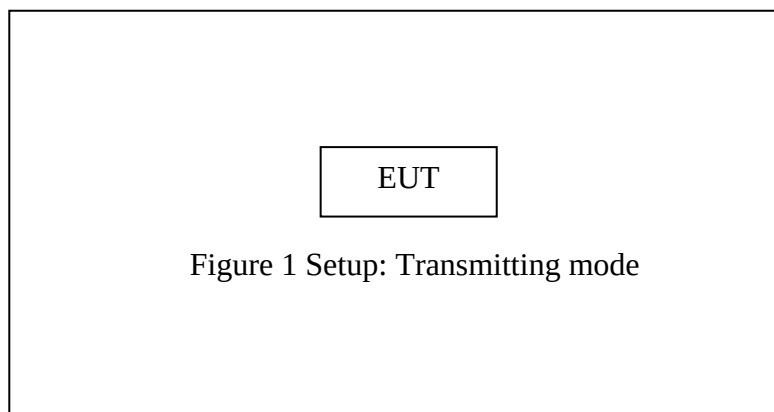
Note:

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.

7. RADIATED SPURIOUS EMISSION TEST

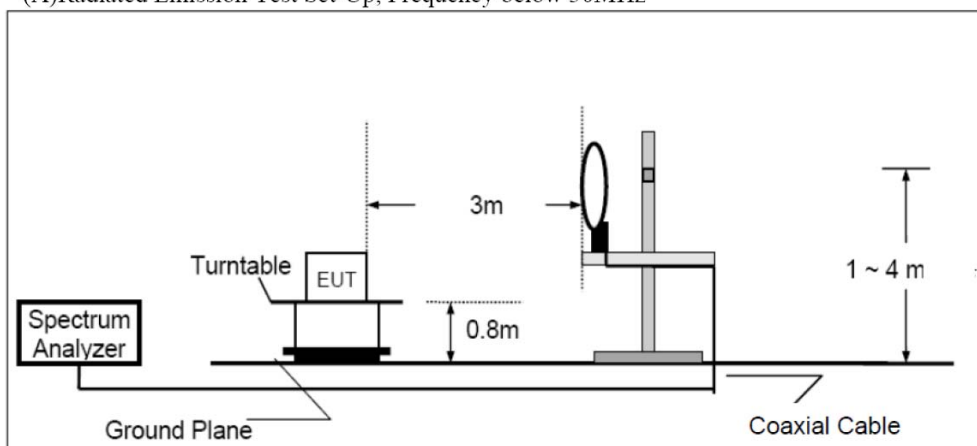
7.1. Block Diagram of Test Setup

7.1.1. Block diagram of connection between the EUT and peripherals

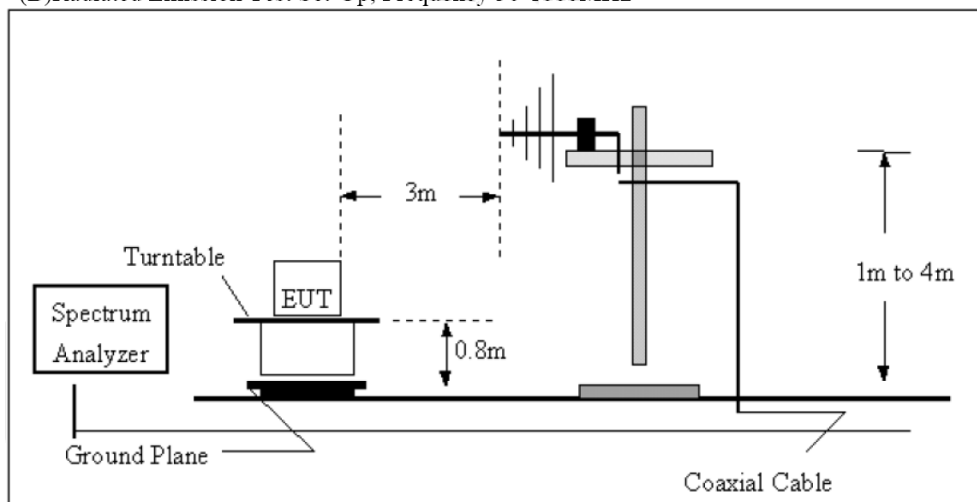


7.1.2. Semi-Anechoic Chamber Test Setup Diagram

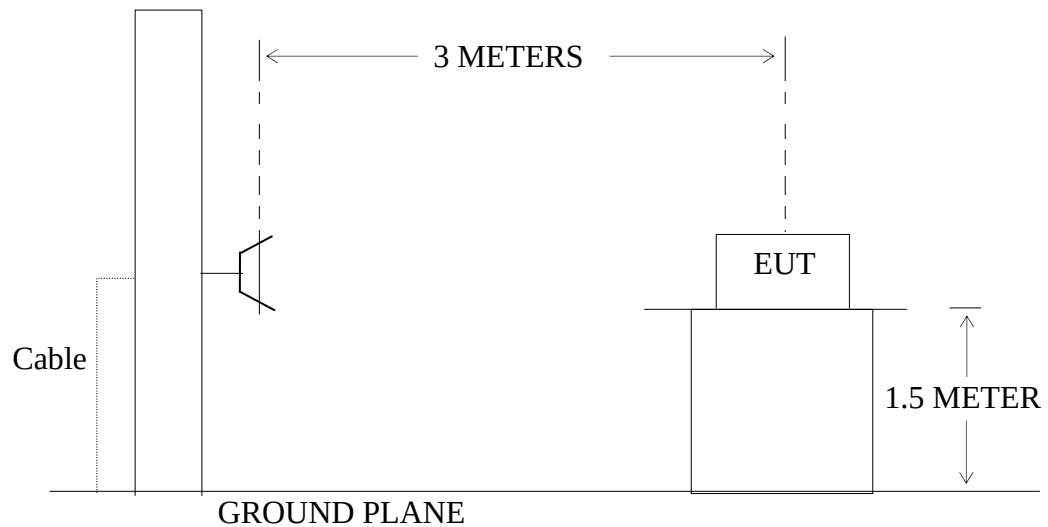
(A) Radiated Emission Test Set-Up, Frequency below 30MHz



(B) Radiated Emission Test Set-Up, Frequency 30-1000MHz



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



7.2.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).

7.3.Restricted bands of operation

7.3.1.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			

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

²Above 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 Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

7.4.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.

7.5. Operating Condition of EUT

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

7.5.2. Turn on the power of all equipment.

7.5.3. Let the EUT work in TX modes and measure it. The transmit frequency are 2413.0, 2438.0, 2464.5MHz.

7.6. 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. The EUT was tested in 3 orthogonal planes.

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 25GHz 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

The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

7.7.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.

Below 30MHz

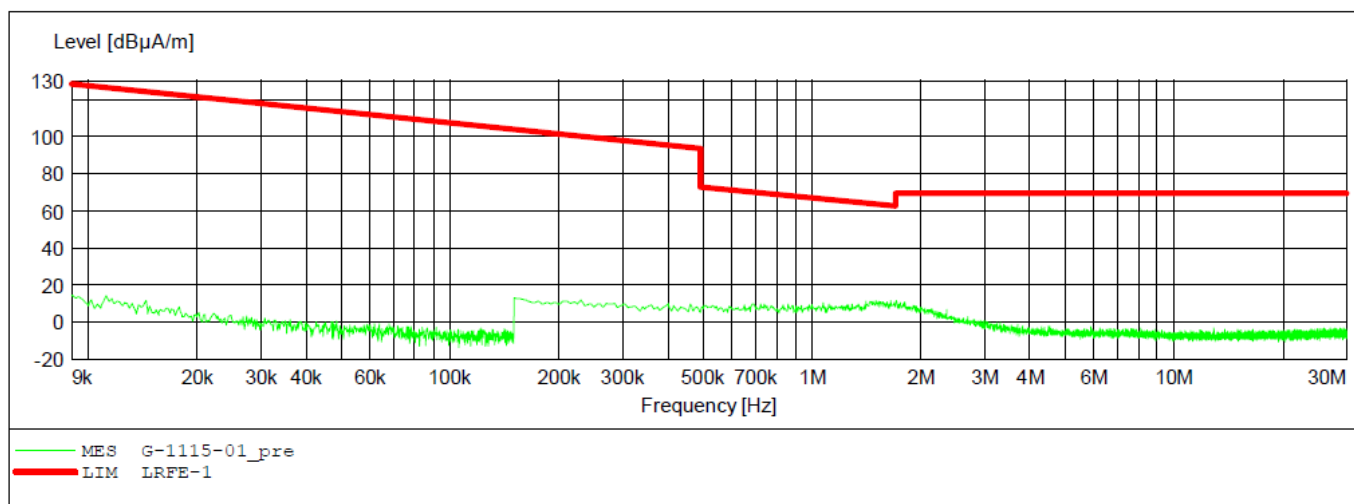
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: TTL Wireless Flash Trigger M/N:XProC
 Manufacturer: GODOX Photo Equipment Co.,Ltd.
 Operating Condition: TX 2412.999634MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: DC 3V
 Comment: X
 Start of Test: 2017-11-15 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	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

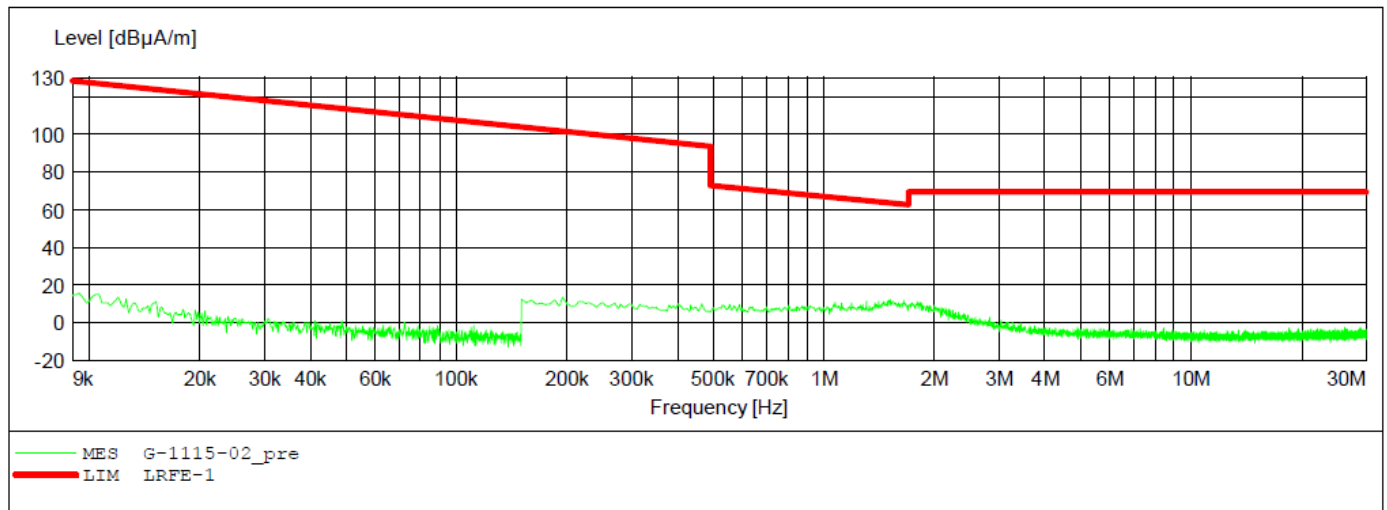
FCC Class B 3M Radiated

EUT: TTL Wireless Flash Trigger M/N:XProC
 Manufacturer: GODOX Photo Equipment Co.,Ltd.
 Operating Condition: TX 2412.999634MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: DC 3V
 Comment: Y
 Start of Test: 2017-11-15 /

SCAN TABLE: "LFRE Fin"

Short Description: SUB STD VTERM2 1.70

Start	Stop	Step	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

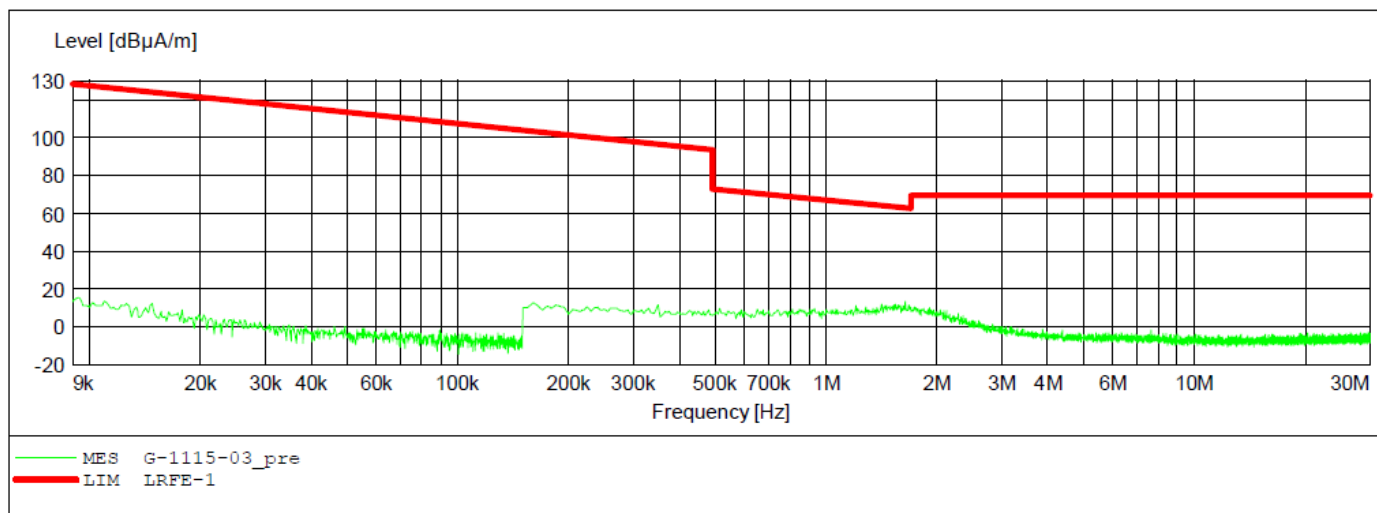
EUT: TTL Wireless Flash Trigger M/N:XProC
 Manufacturer: GODOX Photo Equipment Co.,Ltd.
 Operating Condition: TX 2412.999634MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: DC 3V
 Comment: Z
 Start of Test: 2017-11-15 /

SCAN TABLE: "LFRE Fin"

Short Description:

SUB STD VTERM2 1.70

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
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

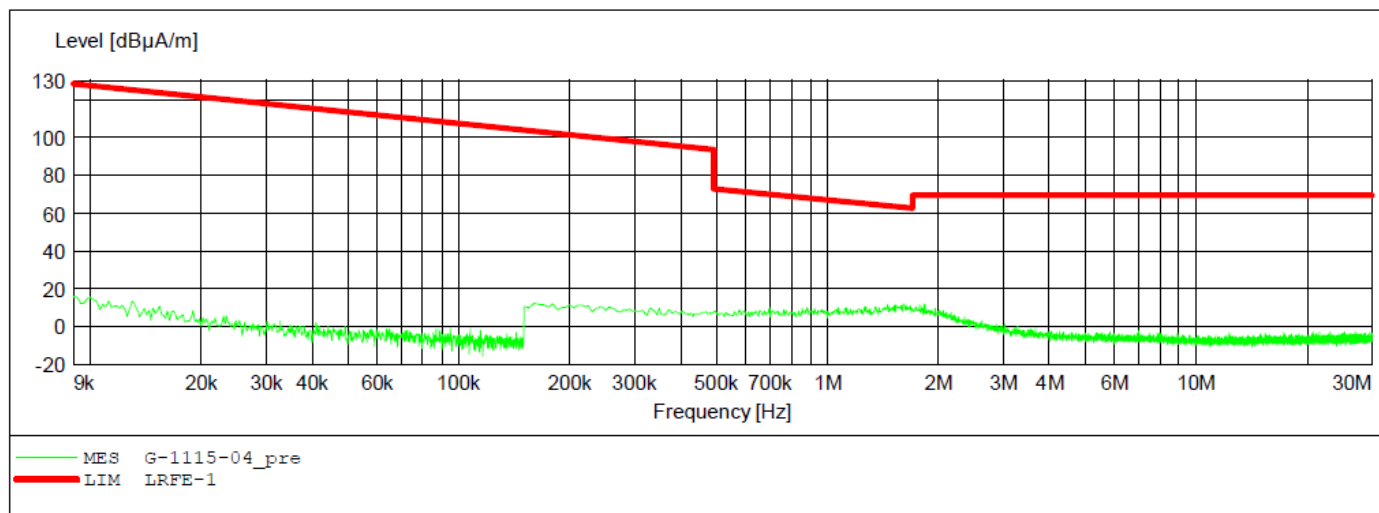
EUT: TTL Wireless Flash Trigger M/N:XProC
 Manufacturer: GODOX Photo Equipment Co.,Ltd.
 Operating Condition: TX 2437.999878MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: DC 3V
 Comment: X
 Start of Test: 2017-11-15 /

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



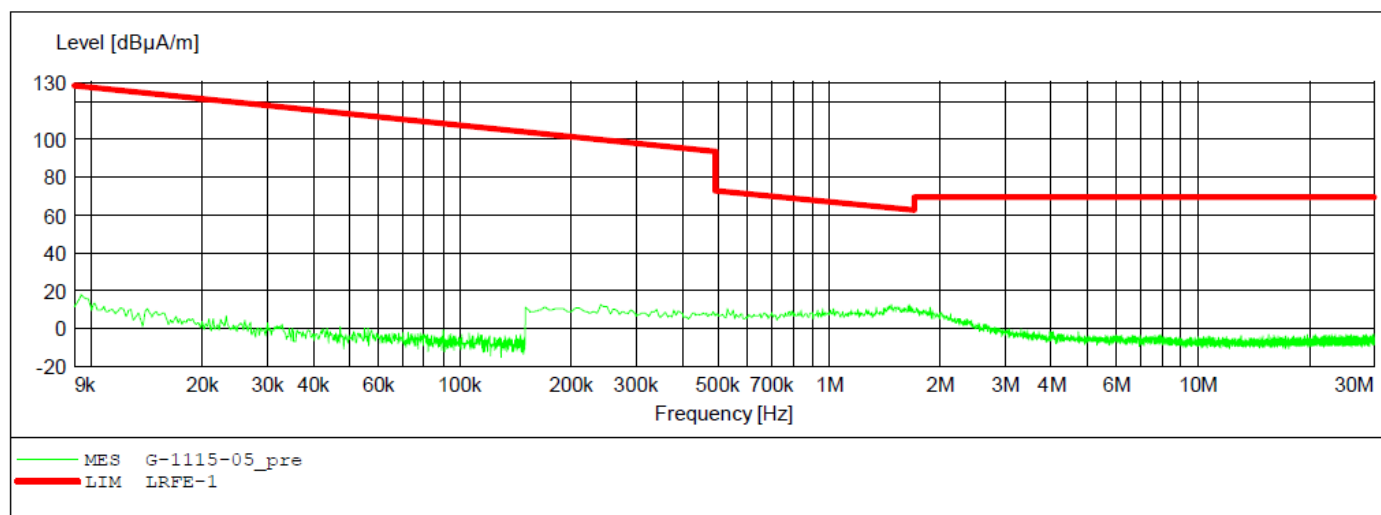
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: TTL Wireless Flash Trigger M/N:XProC
 Manufacturer: GODOX Photo Equipment Co.,Ltd.
 Operating Condition: TX 2437.999878MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: DC 3V
 Comment: Y
 Start of Test: 2017-11-15 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	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



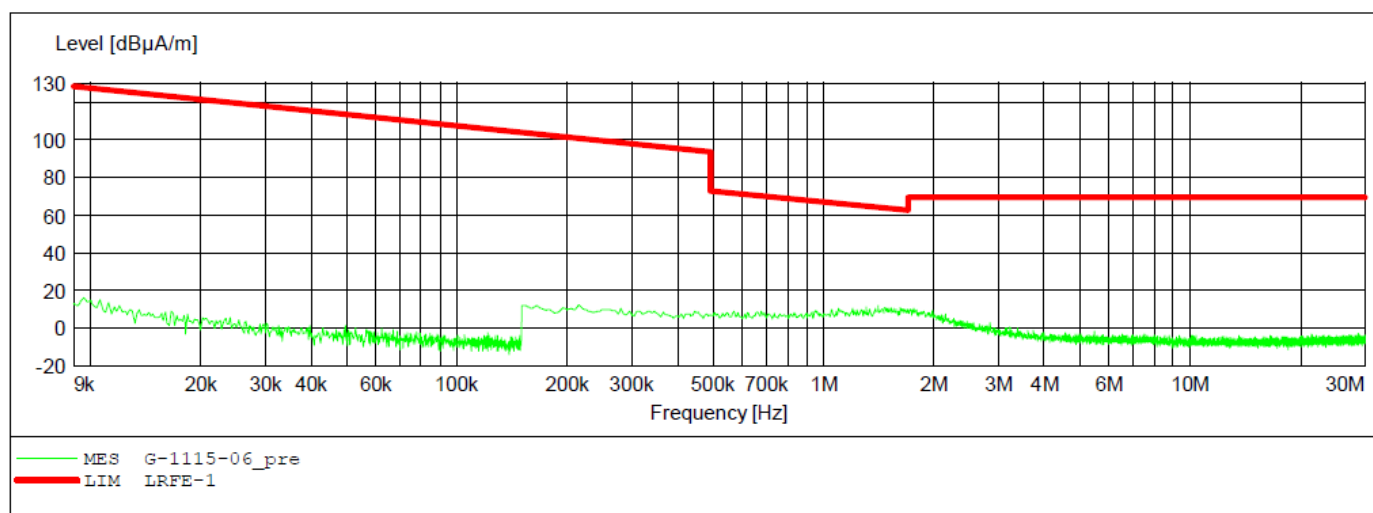
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: TTL Wireless Flash Trigger M/N:XProC
 Manufacturer: GODOX Photo Equipment Co.,Ltd.
 Operating Condition: TX 2437.999878MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: DC 3V
 Comment: Z
 Start of Test: 2017-11-15 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
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



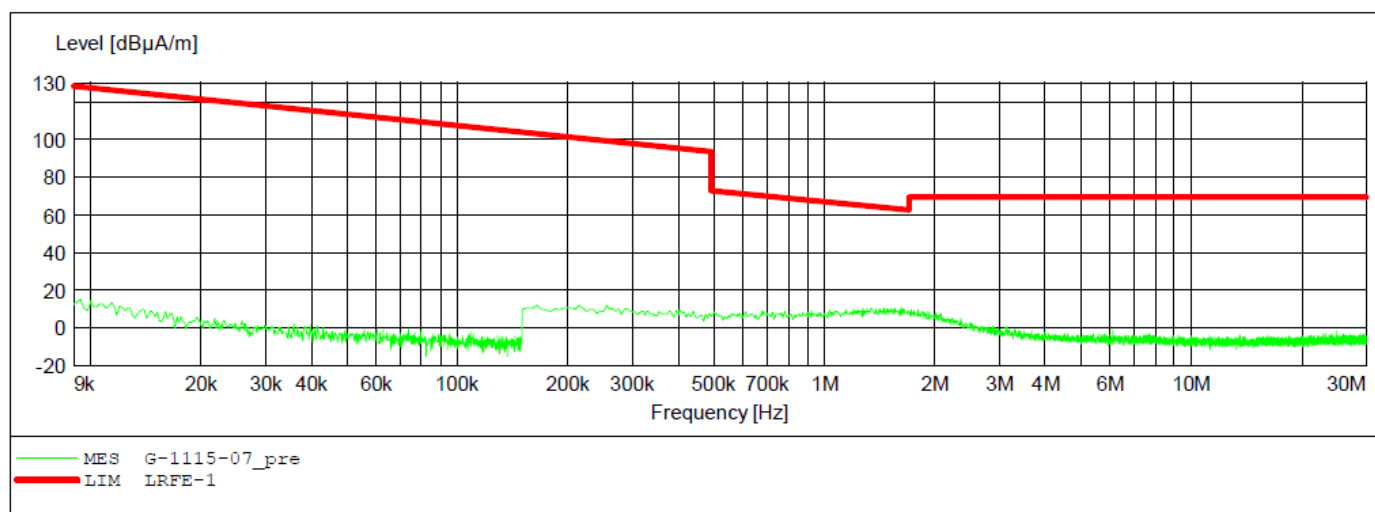
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: TTL Wireless Flash Trigger M/N:XProC
 Manufacturer: GODOX Photo Equipment Co.,Ltd.
 Operating Condition: TX 2464.499756MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: DC 3V
 Comment: X
 Start of Test: 2017-11-15 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
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



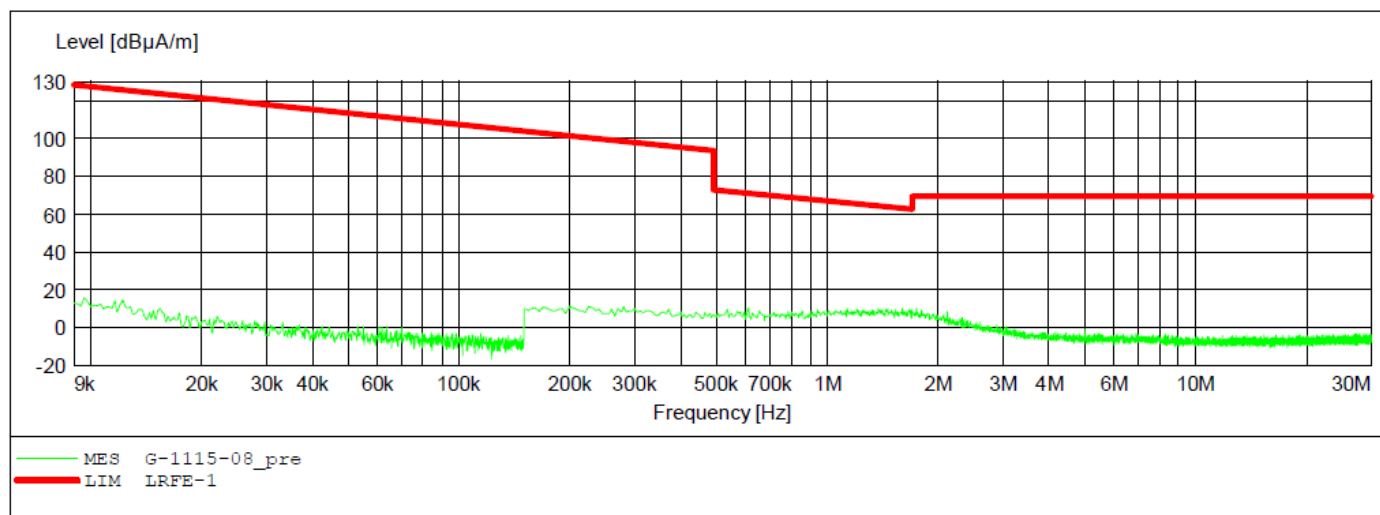
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: TTL Wireless Flash Trigger M/N:XProC
 Manufacturer: GODOX Photo Equipment Co.,Ltd.
 Operating Condition: TX 2464.499756MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: DC 3V
 Comment: Y
 Start of Test: 2017-11-15 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
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



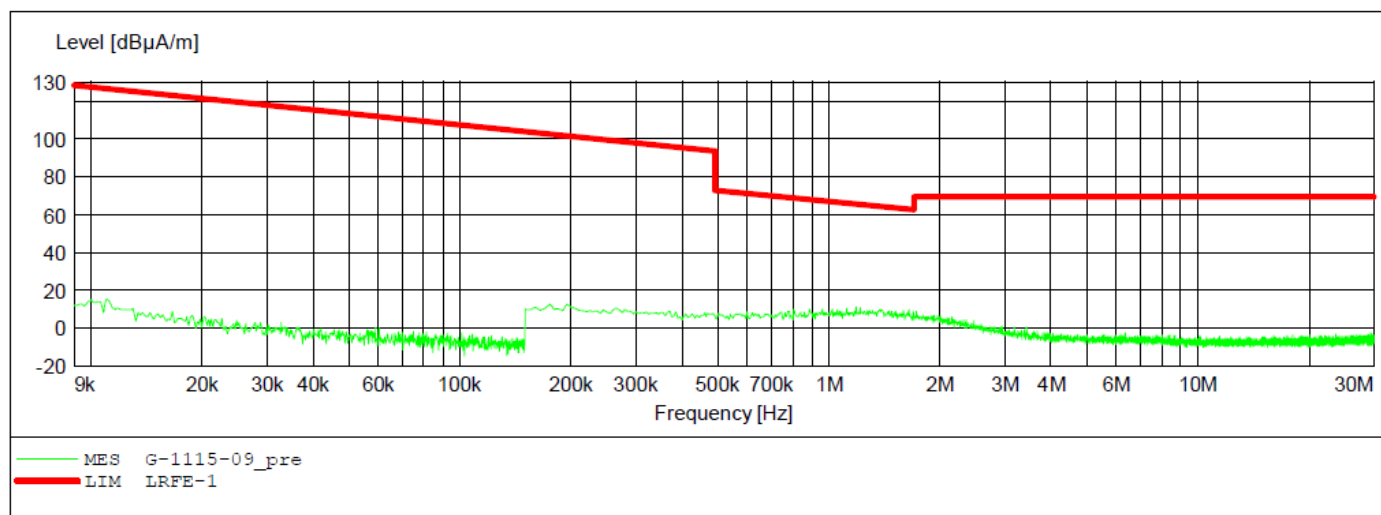
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: TTL Wireless Flash Trigger M/N:XProC
 Manufacturer: GODOX Photo Equipment Co.,Ltd.
 Operating Condition: TX 2464.499756MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: DC 3V
 Comment: Z
 Start of Test: 2017-11-15 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	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



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Job No.: LGW2017 #5082

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TTL Wireless Flash Trigger

Mode: TX 2412.999634MHz

Model: XProC

Manufacturer: GODOX Photo Equipment Co.,Ltd.

Polarization: Horizontal

Power Source: DC 3V

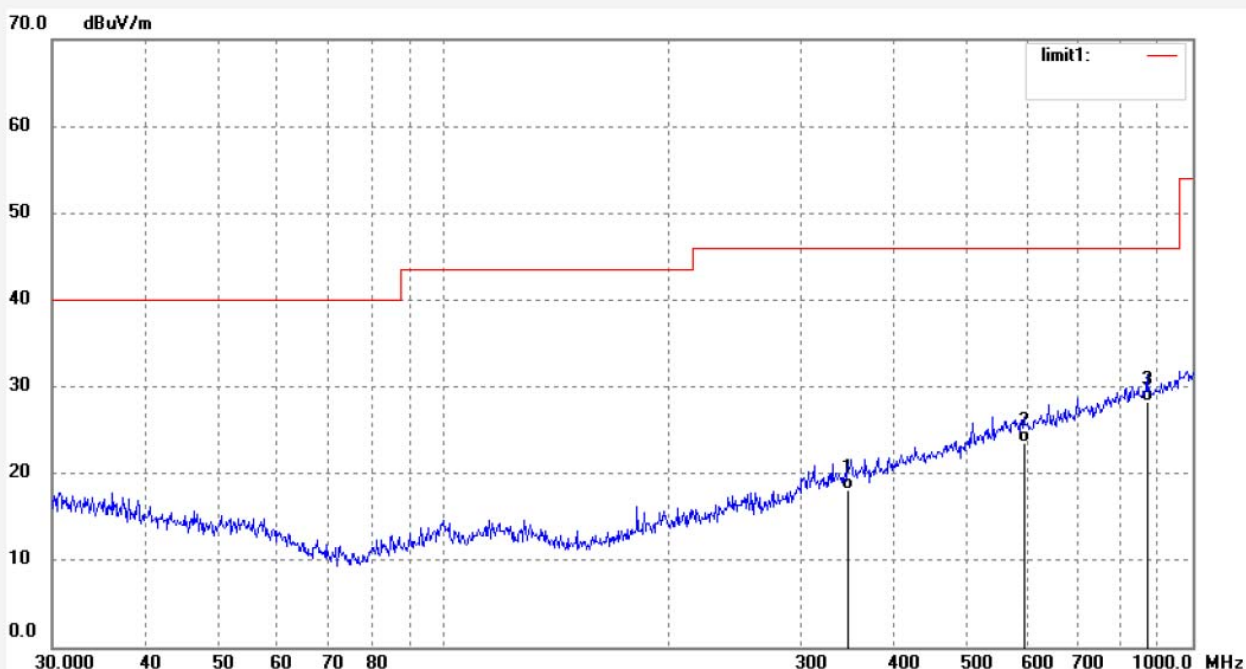
Date: 17/11/13/

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	346.8091	25.67	-7.50	18.17	46.00	-27.83	QP			
2	595.1327	25.97	-2.44	23.53	46.00	-22.47	QP			
3	869.1301	26.45	1.90	28.35	46.00	-17.65	QP			

Job No.: LGW2017 #5083

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TTL Wireless Flash Trigger

Mode: TX 2412.999634MHz

Model: XProC

Manufacturer: GODOX Photo Equipment Co.,Ltd.

Polarization: Vertical

Power Source: DC 3V

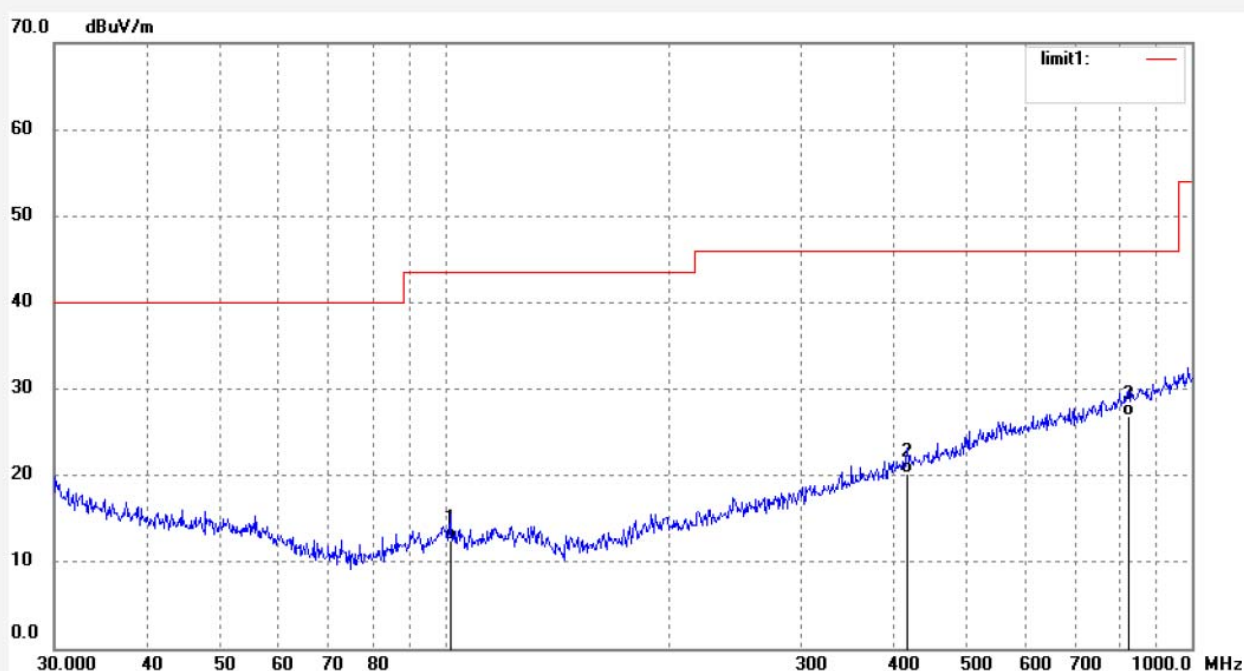
Date: 17/11/13/

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	101.6443	25.85	-13.32	12.53	43.50	-30.97	QP			
2	416.1791	26.09	-5.95	20.14	46.00	-25.86	QP			
3	821.7103	25.74	1.18	26.92	46.00	-19.08	QP			

Job No.: LGW2017 #5085

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TTL Wireless Flash Trigger

Mode: TX 2437.999878MHz

Model: XProC

Manufacturer: GODOX Photo Equipment Co.,Ltd.

Polarization: Horizontal

Power Source: DC 3V

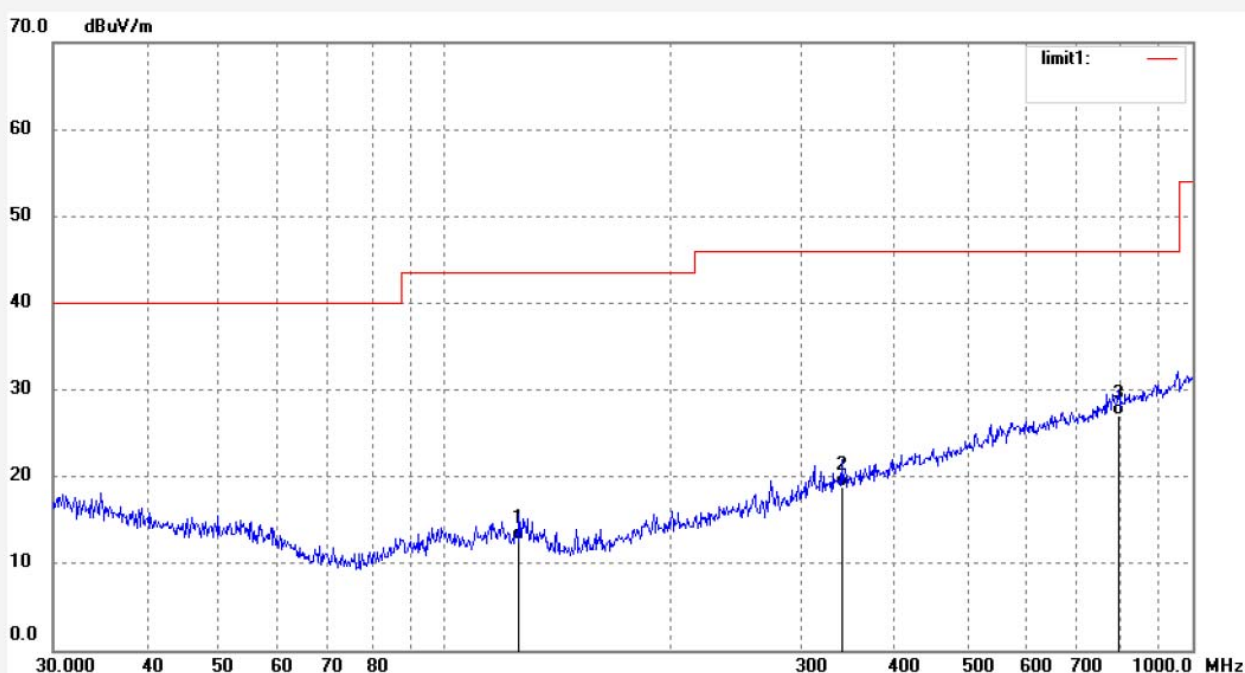
Date: 17/11/13/

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	125.8863	26.39	-13.66	12.73	43.50	-30.77	QP			
2	339.5887	26.66	-7.76	18.90	46.00	-27.10	QP			
3	796.1829	26.35	0.73	27.08	46.00	-18.92	QP			

Job No.: LGW2017 #5084

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TTL Wireless Flash Trigger

Mode: TX 2437.999878MHz

Model: XProC

Manufacturer: GODOX Photo Equipment Co.,Ltd.

Polarization: Vertical

Power Source: DC 3V

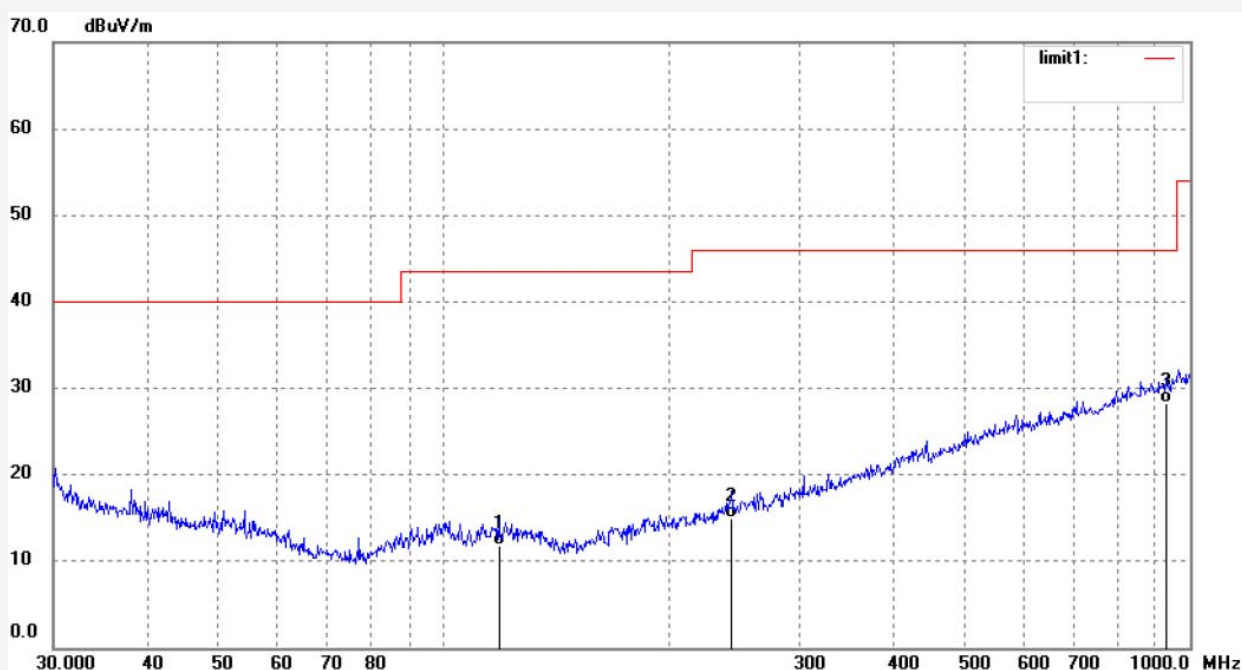
Date: 17/11/13/

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	118.6012	24.78	-13.05	11.73	43.50	-31.77	QP			
2	243.3771	25.65	-10.60	15.05	46.00	-30.95	QP			
3	929.0081	25.52	2.75	28.27	46.00	-17.73	QP			

Job No.: LGW2017 #5086

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TTL Wireless Flash Trigger

Mode: TX 2464.499756MHz

Model: XProC

Manufacturer: GODOX Photo Equipment Co.,Ltd.

Polarization: Horizontal

Power Source: DC 3V

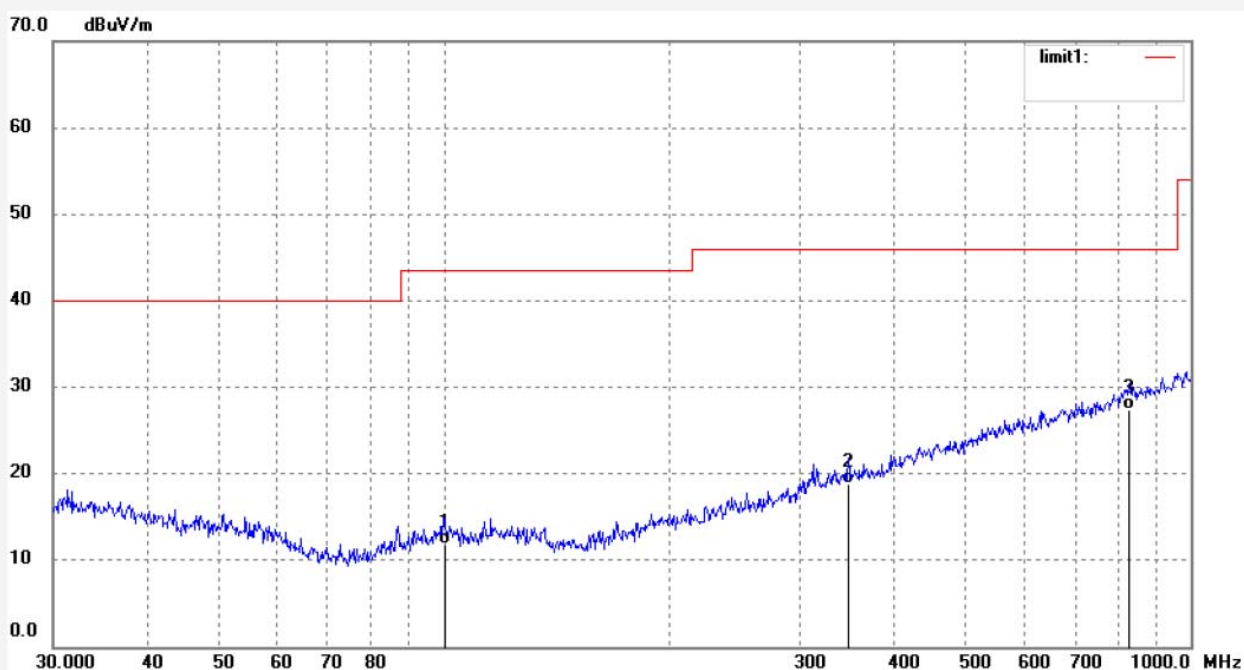
Date: 17/11/13/

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	100.2286	24.99	-13.09	11.90	43.50	-31.60	QP			
2	348.0274	26.21	-7.47	18.74	46.00	-27.26	QP			
3	827.4933	26.04	1.30	27.34	46.00	-18.66	QP			

Job No.: LGW2017 #5087

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TTL Wireless Flash Trigger

Mode: TX 2464.499756MHz

Model: XProC

Manufacturer: GODOX Photo Equipment Co.,Ltd.

Polarization: Vertical

Power Source: DC 3V

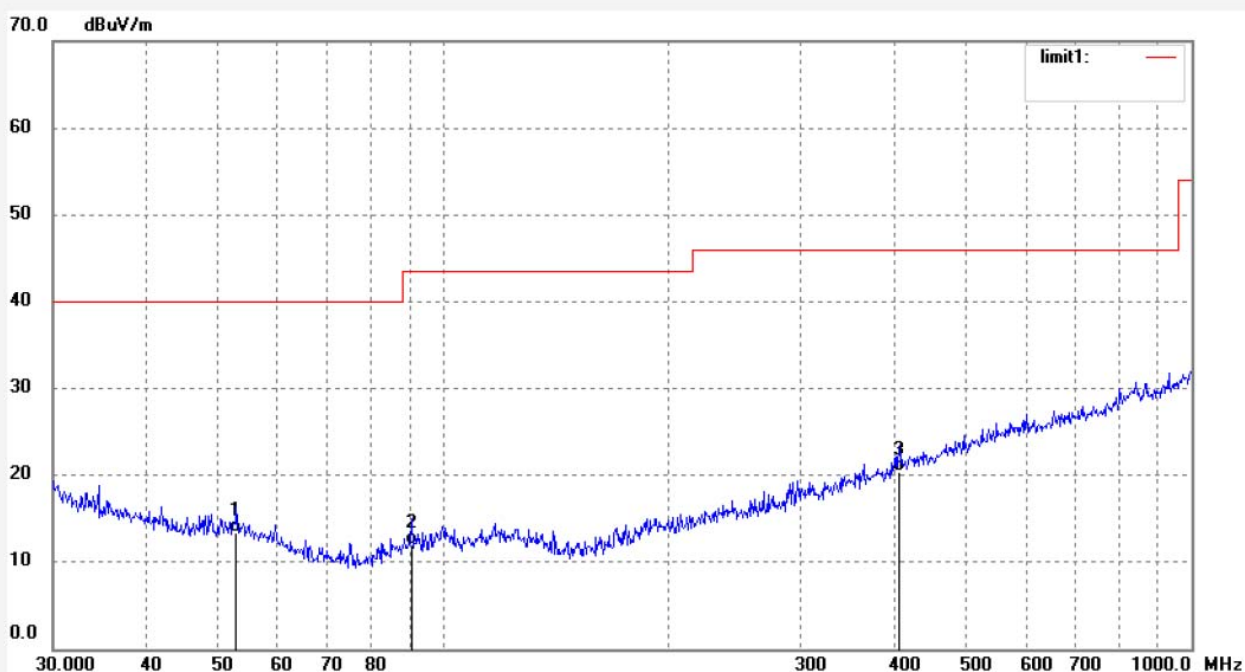
Date: 17/11/13/

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	52.7599	26.21	-12.79	13.42	40.00	-26.58	QP			
2	90.5374	26.90	-14.98	11.92	43.50	-31.58	QP			
3	406.0880	26.71	-6.30	20.41	46.00	-25.59	QP			

1GHz-18GHz



ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

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Job No.: LGW2017 #5066

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TTL Wireless Flash Trigger

Mode: TX 2412.999634MHz

Model: XProC

Manufacturer: GODOX Photo Equipment Co.,Ltd.

Polarization: Horizontal

Power Source: DC 3V

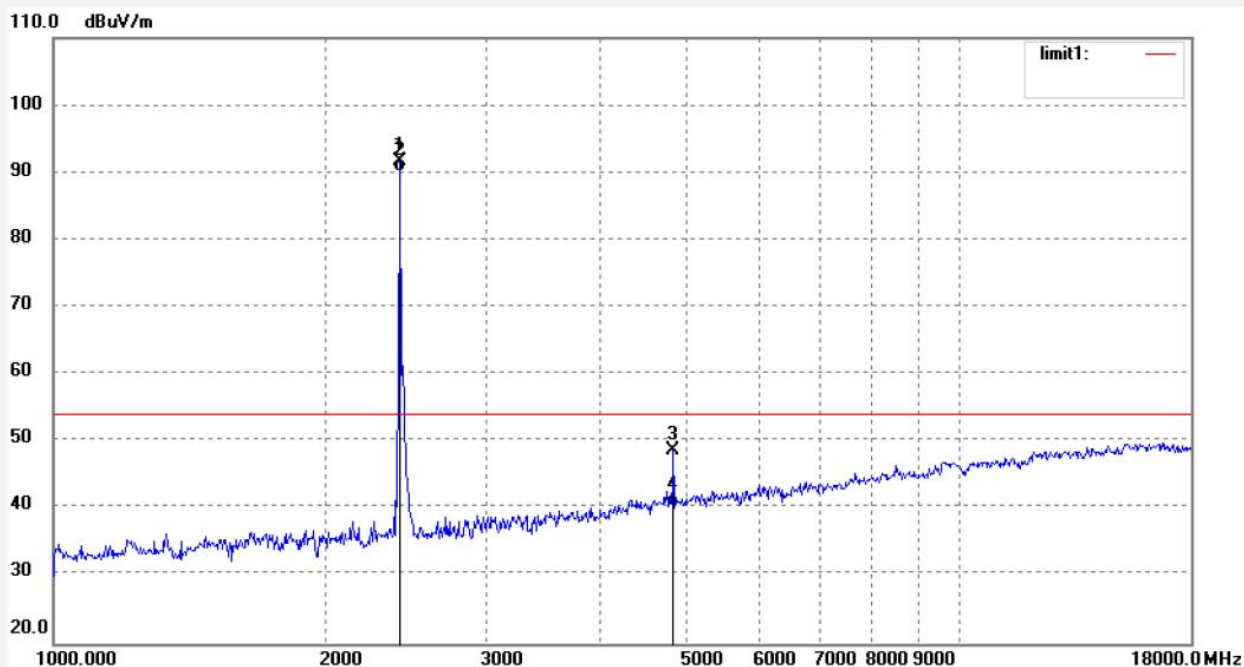
Date: 17/11/13/

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	90.71	0.93	91.64	114.00	-22.36	peak			
2	2412.999	89.11	0.93	90.04	94.00	-3.96	AVG			
3	4825.997	41.20	7.60	48.80	74.00	-25.20	peak			
4	4825.997	32.77	7.60	40.37	54.00	-13.63	AVG			

Job No.: LGW2017 #5067

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TTL Wireless Flash Trigger

Mode: TX 2412.999634MHz

Model: XProC

Manufacturer: GODOX Photo Equipment Co.,Ltd.

Polarization: Vertical

Power Source: DC 3V

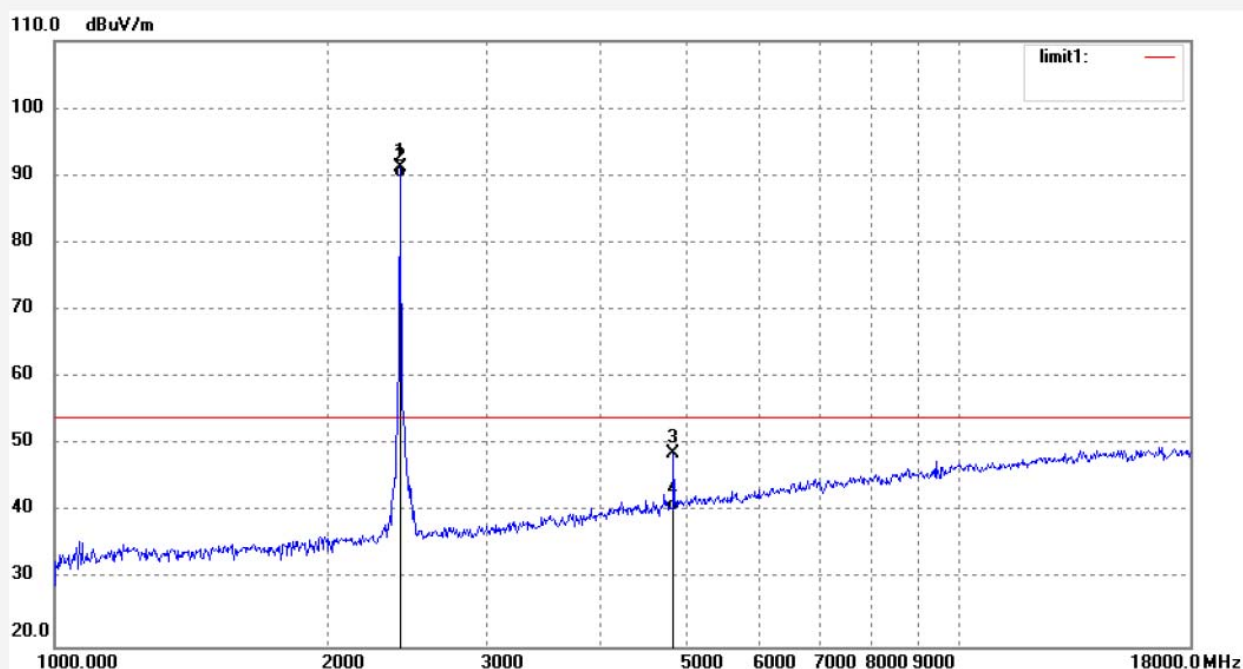
Date: 17/11/13/

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	88.35	2.93	91.28	114.00	-22.72	peak			
2	2412.999	86.75	2.93	89.68	94.00	-4.32	AVG			
3	4825.996	39.12	9.60	48.72	74.00	-25.28	peak			
4	4825.996	30.64	9.60	40.24	54.00	-13.76	AVG			

Job No.: LGW2017 #5070

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TTL Wireless Flash Trigger

Mode: TX 2437.999878MHz

Model: XProC

Manufacturer: GODOX Photo Equipment Co.,Ltd.

Polarization: Horizontal

Power Source: DC 3V

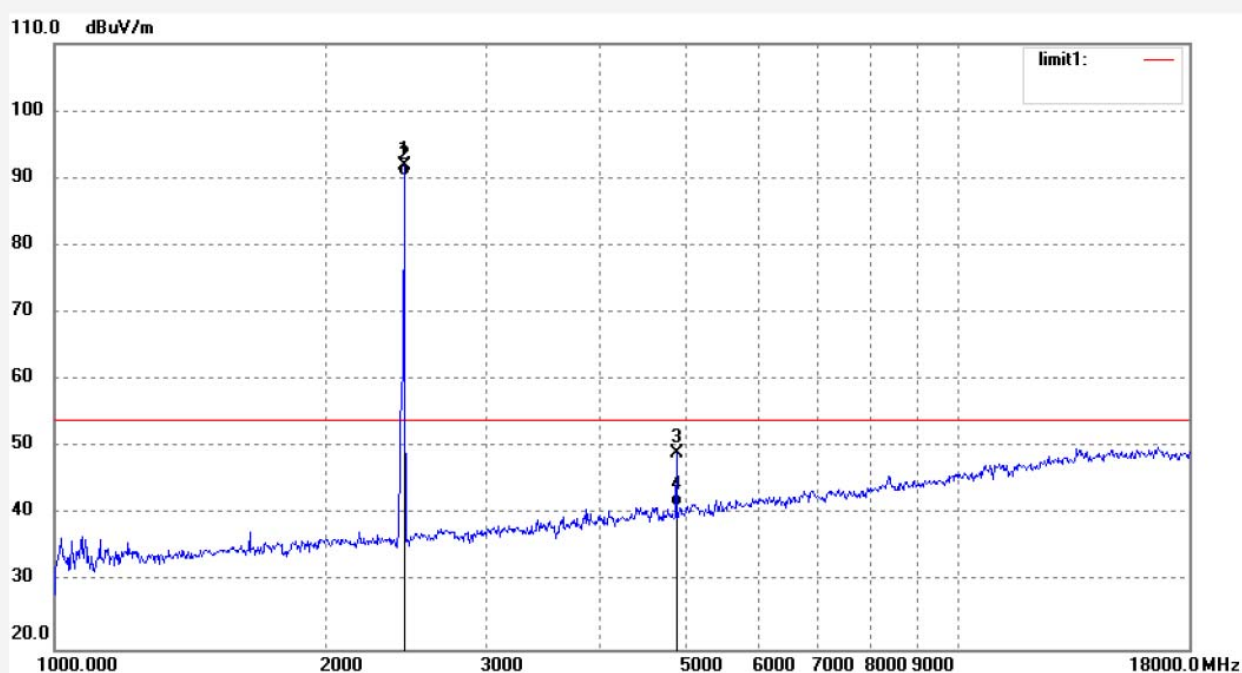
Date: 17/11/13/

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	90.76	1.04	91.80	114.00	-22.20	peak			
2	2437.999	89.26	1.04	90.30	94.00	-3.70	AVG			
3	4875.997	41.03	8.06	49.09	74.00	-24.91	peak			
4	4875.997	33.11	8.06	41.17	54.00	-12.83	AVG			

Job No.: LGW2017 #5071

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TTL Wireless Flash Trigger

Mode: TX 2437.999878MHz

Model: XProC

Manufacturer: GODOX Photo Equipment Co.,Ltd.

Polarization: Vertical

Power Source: DC 3V

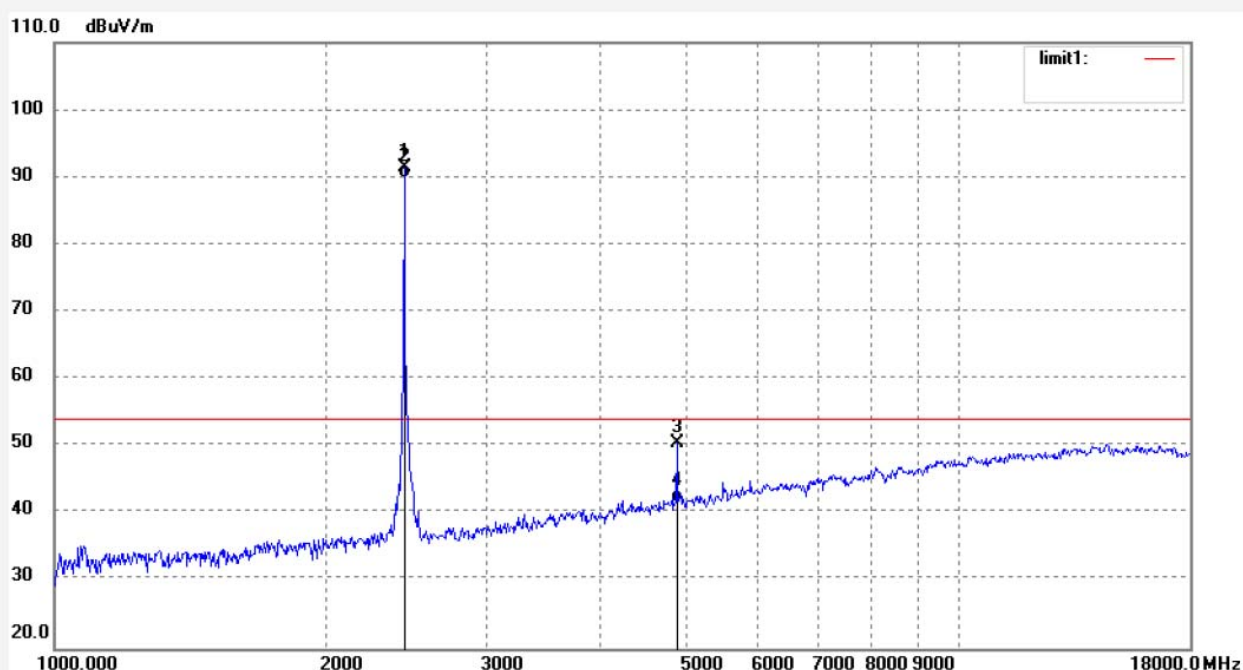
Date: 17/11/13/

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	88.41	3.04	91.45	114.00	-22.55	peak			
2	2437.999	86.91	3.04	89.95	94.00	-4.05	AVG			
3	4876.001	40.39	10.06	50.45	74.00	-23.55	peak			
4	4876.001	31.74	10.06	41.80	54.00	-12.20	AVG			

Job No.: LGW2017 #5073

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TTL Wireless Flash Trigger

Mode: TX 2464.499756MHz

Model: XProC

Manufacturer: GODOX Photo Equipment Co.,Ltd.

Polarization: Horizontal

Power Source: DC 3V

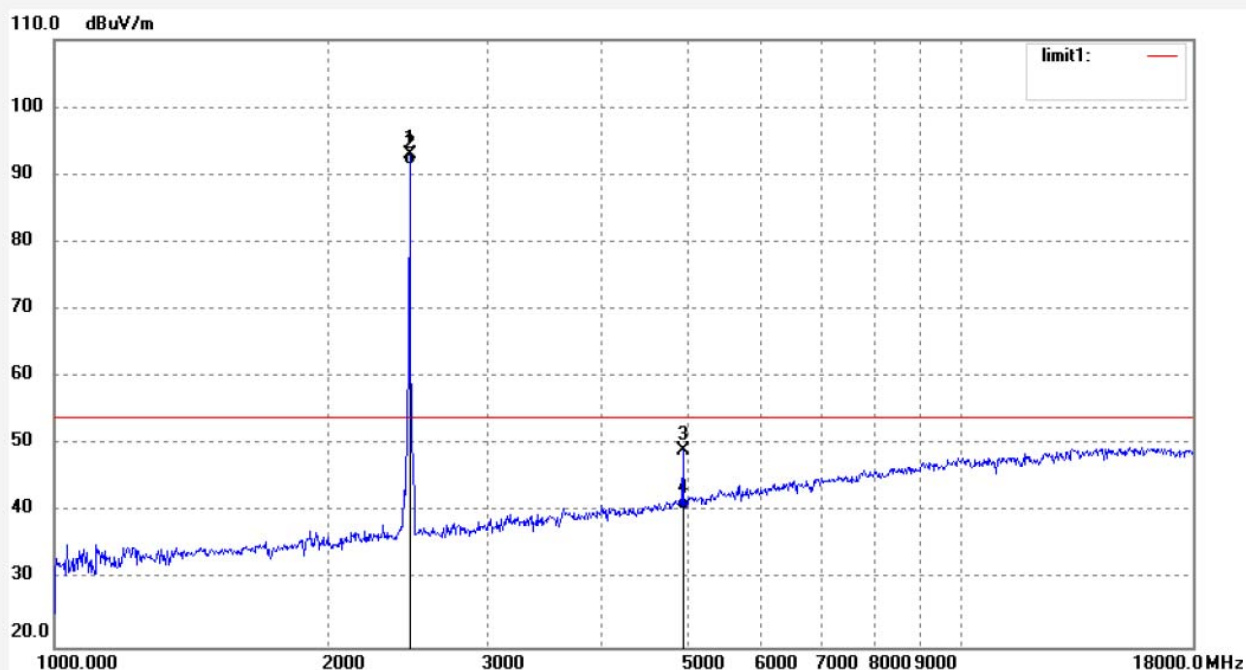
Date: 17/11/13/

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	2464.499	91.81	1.09	92.90	114.00	-21.10	peak			
2	2464.499	90.41	1.09	91.50	94.00	-2.50	AVG			
3	4928.995	40.66	8.42	49.08	74.00	-24.92	peak			
4	4928.995	31.94	8.42	40.36	54.00	-13.64	AVG			



ACCURATE TECHNOLOGY CO., LTD.

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Report No.: ATE20172400

Page 43 of 50

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGW2017 #5072

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TTL Wireless Flash Trigger

Mode: TX 2464.499756MHz

Model: XProC

Manufacturer: GODOX Photo Equipment Co.,Ltd.

Polarization: Vertical

Power Source: DC 3V

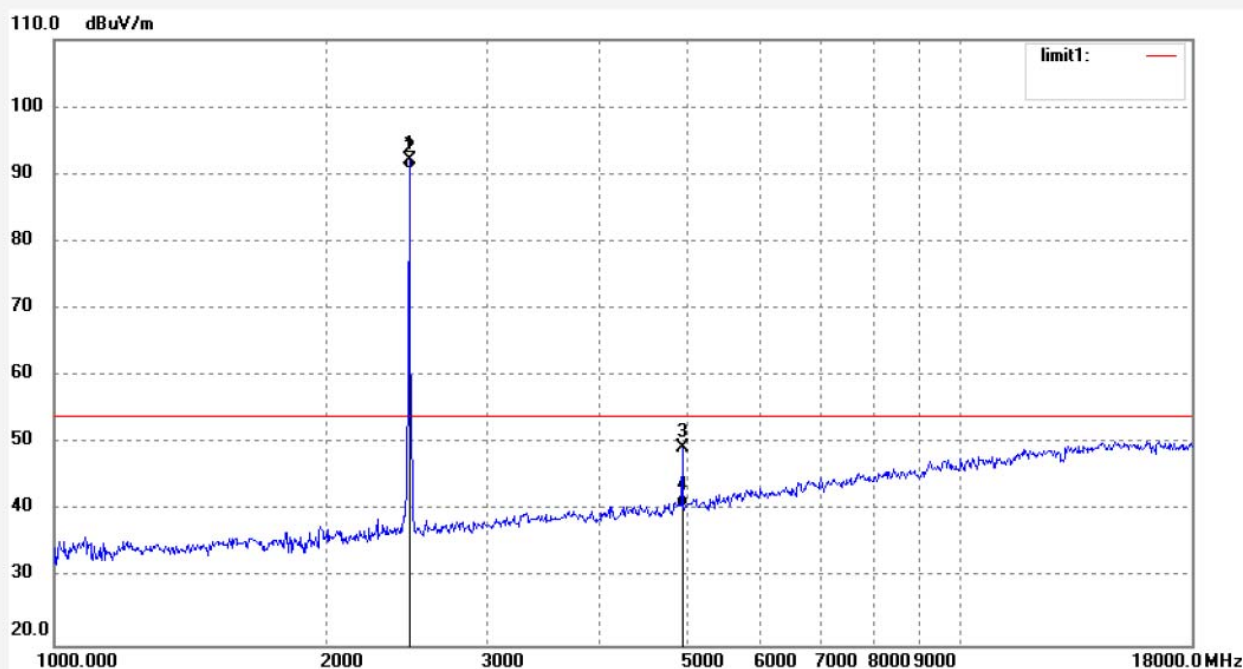
Date: 17/11/13/

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	2464.499	88.98	3.09	92.07	114.00	-21.93	peak			
2	2464.499	87.58	3.09	90.67	94.00	-3.33	AVG			
3	4928.998	38.89	10.42	49.31	74.00	-24.69	peak			
4	4928.998	30.15	10.42	40.57	54.00	-13.43	AVG			

18GHz-26.5GHz



ACCURATE TECHNOLOGY CO., LTD.

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Job No.: LGW2017 #5077

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TTL Wireless Flash Trigger

Mode: TX 2412.999634MHz

Model: XProC

Manufacturer: GODOX Photo Equipment Co.,Ltd.

Polarization: Horizontal

Power Source: DC 3V

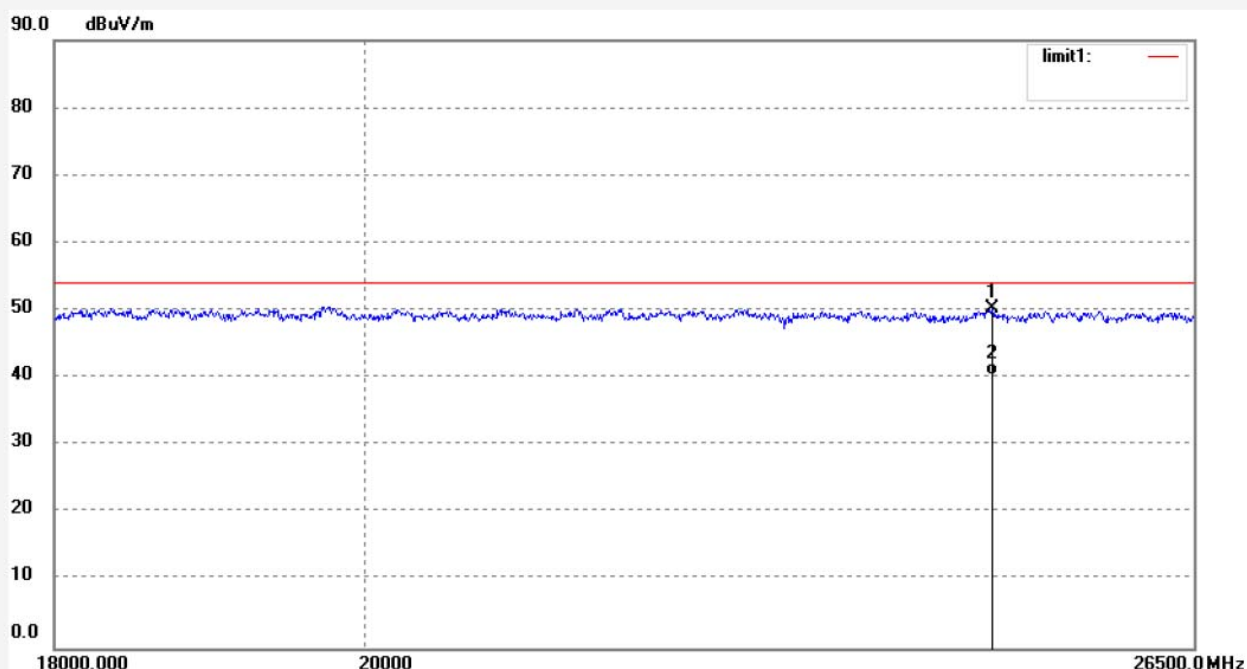
Date: 17/11/13/

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	24746.546	-9.55	59.77	50.22	74.00	-23.78	peak			
2	24746.546	-19.42	59.77	40.35	54.00	-13.65	AVG			

Job No.: LGW2017 #5076

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TTL Wireless Flash Trigger

Mode: TX 2412.999634MHz

Model: XProC

Manufacturer: GODOX Photo Equipment Co.,Ltd.

Polarization: Vertical

Power Source: DC 3V

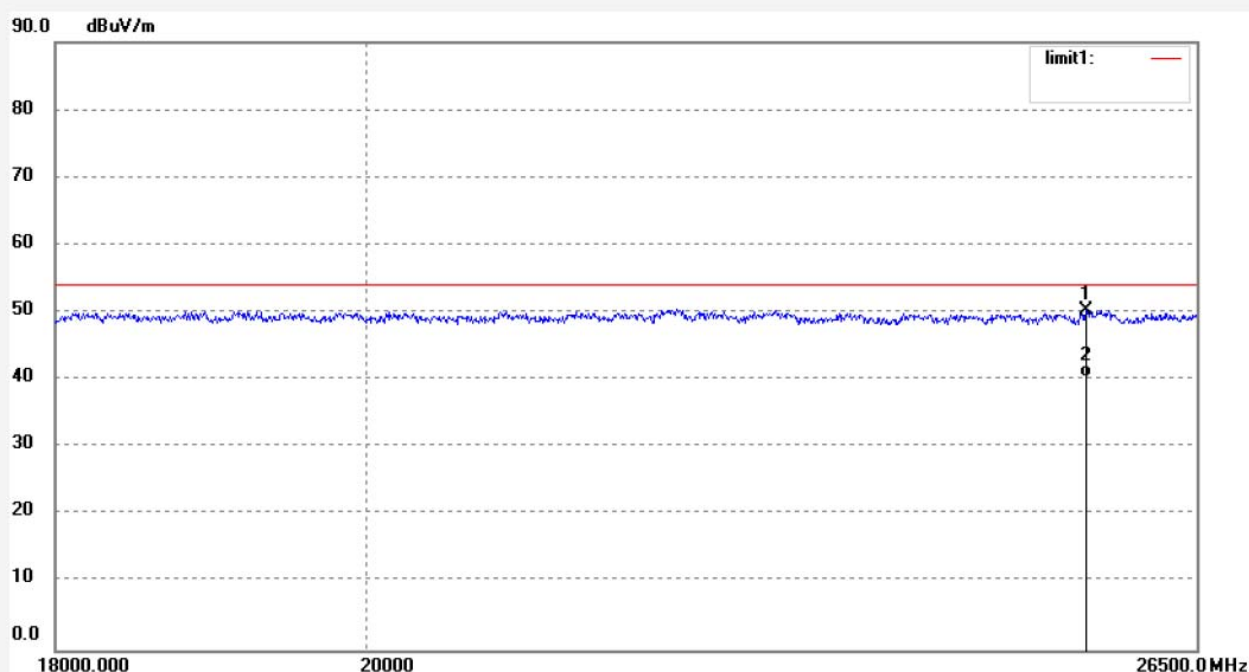
Date: 17/11/13/

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	25524.219	9.18	41.06	50.24	74.00	-23.76	peak			
2	25524.219	-0.69	41.06	40.37	54.00	-13.63	AVG			

Job No.: LGW2017 #5078

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TTL Wireless Flash Trigger

Mode: TX 2437.999878MHz

Model: XProC

Manufacturer: GODOX Photo Equipment Co.,Ltd.

Polarization: Horizontal

Power Source: DC 3V

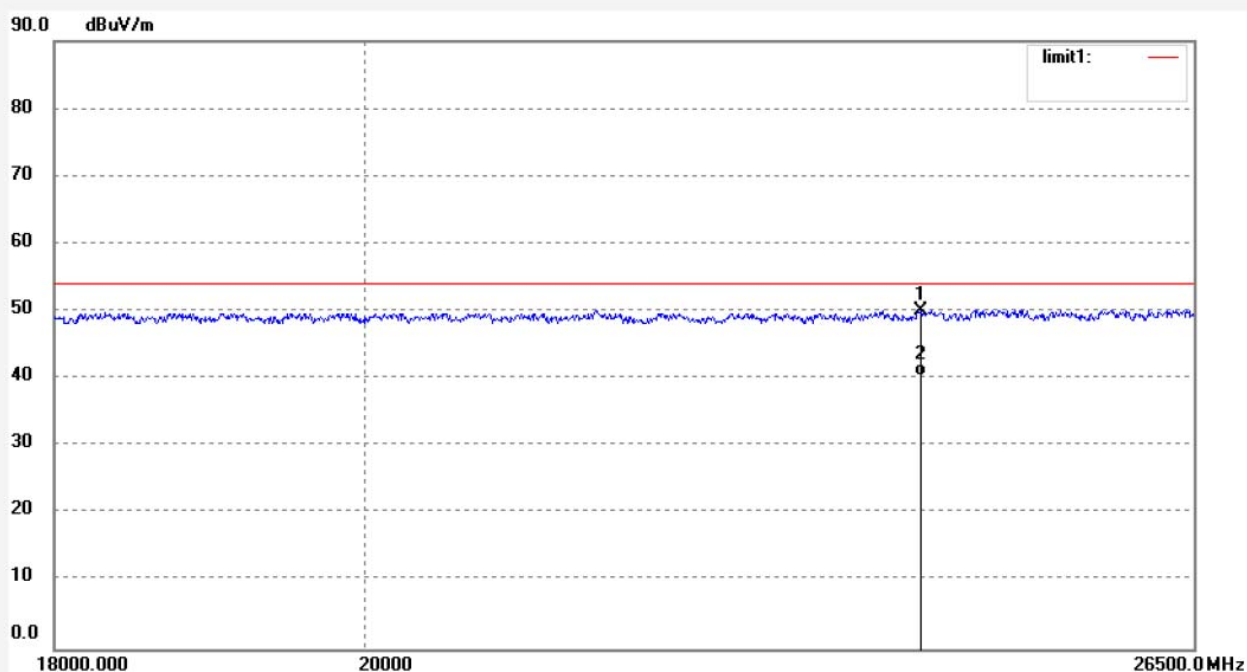
Date: 17/11/13/

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	24160.184	-10.17	60.22	50.05	74.00	-23.95	peak			
2	24160.184	-19.89	60.22	40.33	54.00	-13.67	AVG			



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Report No.: ATE20172400

Page 47 of 50

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGW2017 #5079

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TTL Wireless Flash Trigger

Mode: TX 2437.999878MHz

Model: XProC

Manufacturer: GODOX Photo Equipment Co.,Ltd.

Polarization: Vertical

Power Source: DC 3V

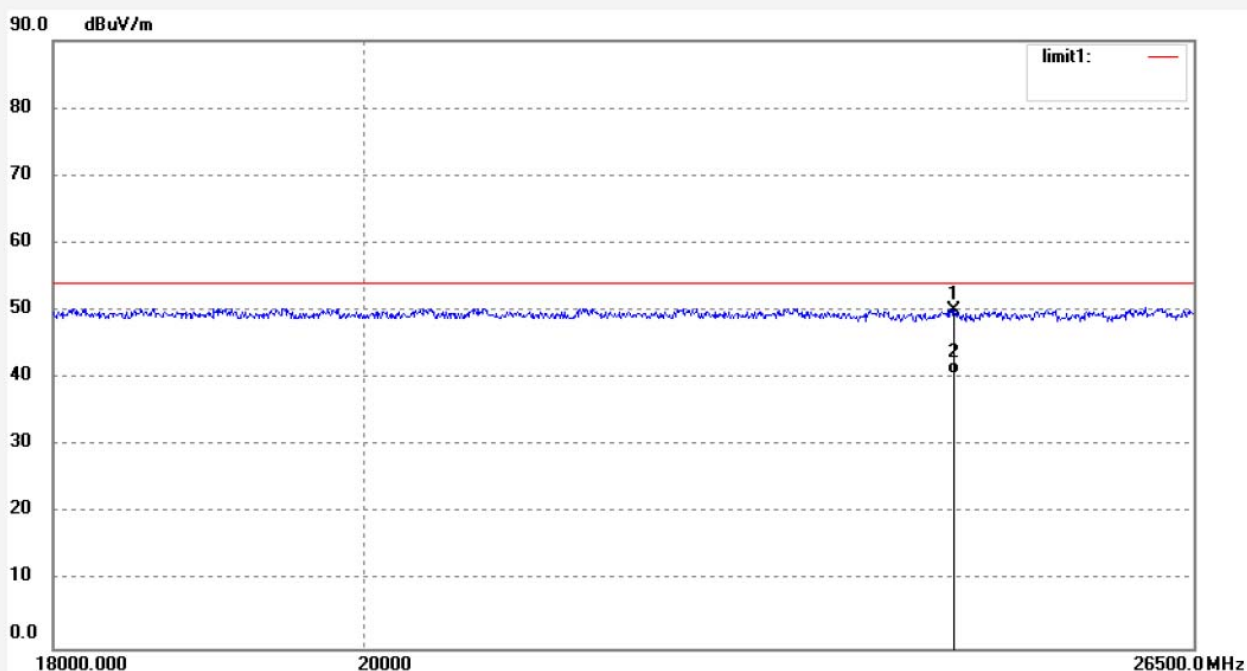
Date: 17/11/13/

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	24432.700	9.93	40.12	50.05	74.00	-23.95	peak			
2	24432.700	0.45	40.12	40.57	54.00	-13.43	AVG			

Job No.: LGW2017 #5081

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TTL Wireless Flash Trigger

Mode: TX 2464.499756MHz

Model: XProC

Manufacturer: GODOX Photo Equipment Co.,Ltd.

Polarization: Horizontal

Power Source: DC 3V

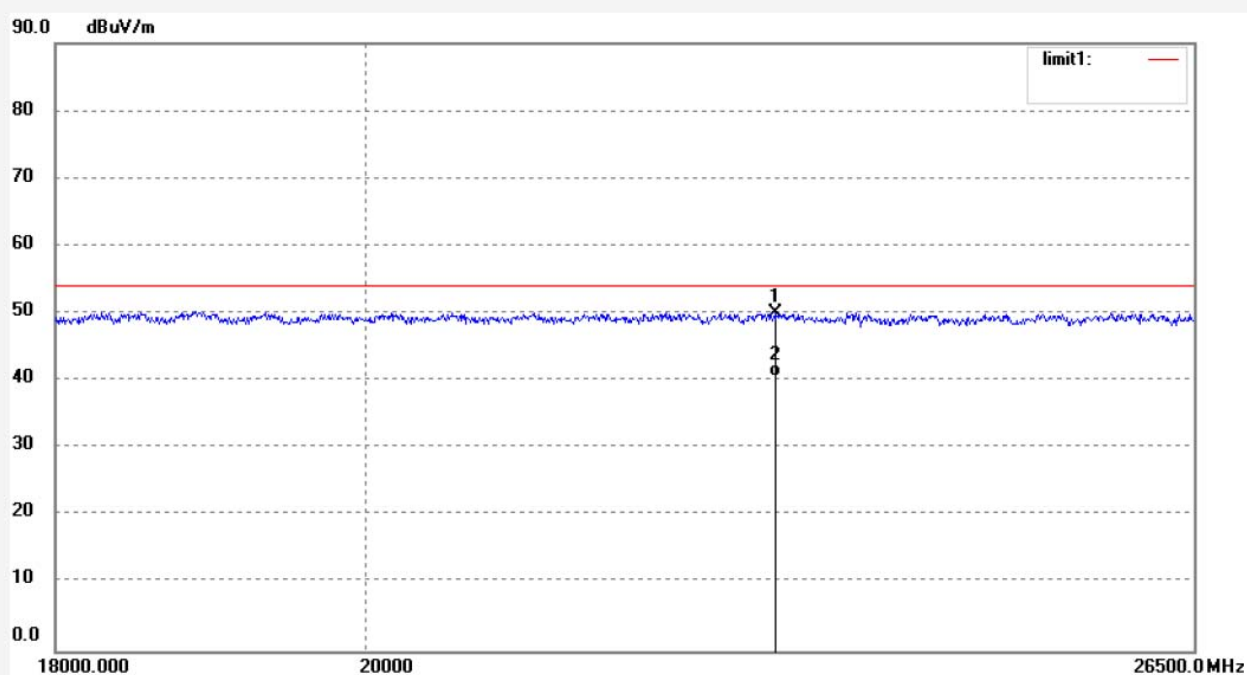
Date: 17/11/13/

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	22993.212	-9.53	59.58	50.05	74.00	-23.95	peak			
2	22993.212	-18.90	59.58	40.68	54.00	-13.32	AVG			

Job No.: LGW2017 #5080

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TTL Wireless Flash Trigger

Mode: TX 2464.499756MHz

Model: XProC

Manufacturer: GODOX Photo Equipment Co.,Ltd.

Polarization: Vertical

Power Source: DC 3V

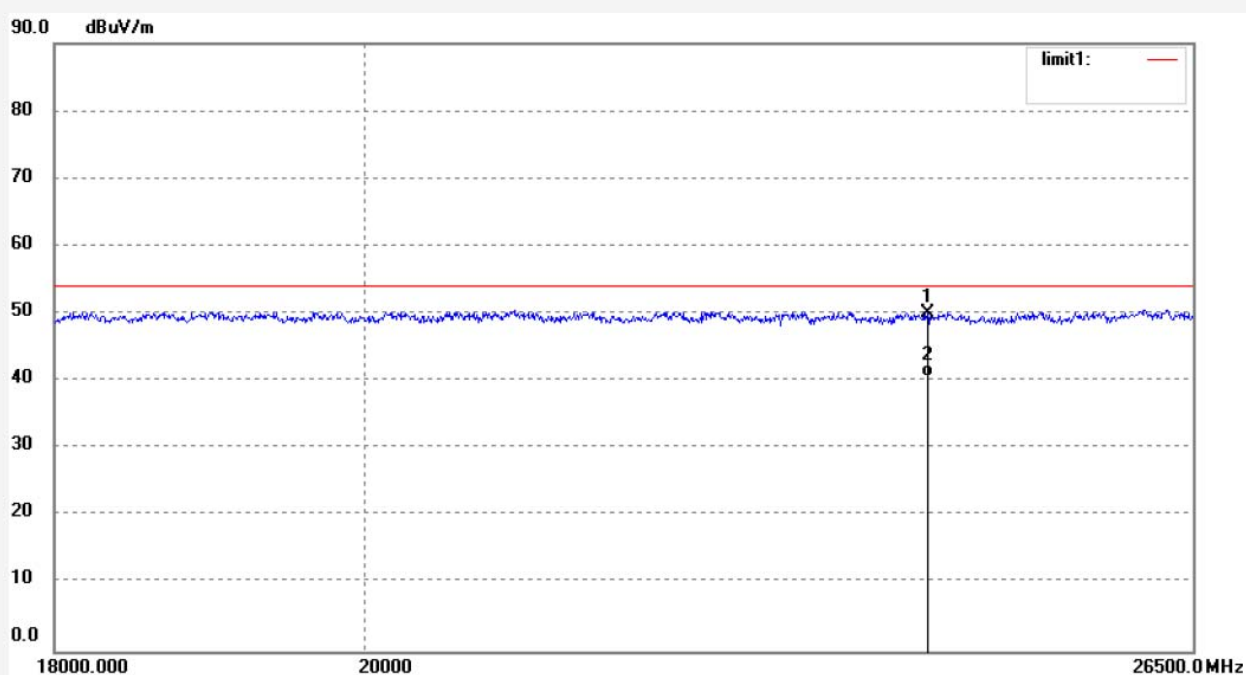
Date: 17/11/13/

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	24216.316	10.07	39.93	50.00	74.00	-24.00	peak			
2	24216.316	0.66	39.93	40.59	54.00	-13.41	AVG			

8. ANTENNA REQUIREMENT

8.1.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.

8.2.Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 0dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.