



FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Shenzhen Aodelan Technology Co., Ltd.

Wireless Flash Trigger Receiver

Model Number:TGT-E3+(R)

FCC ID: 2AEJW-TGTE3R

Prepared for : Shenzhen Aodelan Technology Co., Ltd.
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Report Number : ACS-F15042
Date of Test : Feb.13~28, 2015
Date of Report : May.06, 2015

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TEST REPORT CERTIFICATION

Applicant : Shenzhen Aodelan Technology Co., Ltd.
Manufacturer : Shenzhen Fudasi Technology Co., Ltd.
EUT Description : Wireless Flash Trigger Receiver
FCC ID : 2AEJW-TGTE3R
(A) MODEL NO. : TGT-E3+(R)
(B) SERIAL NO. : N/A
(C) POWER SUPPLY : DC 5V
(D) TEST VOLTAGE : DC 5V From Adapter Input AC 120V/50Hz

Tested for comply with:
FCC Rules and Regulations Part 15 Subpart C: 2013

Test procedure used:
ANSI C63.10:2009

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements.

The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. This report contains data that are not covered by the NVLAP accreditation. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Feb.13~28, 2015 Report of date: May.06, 2015

Prepared by : Cindy Zhu Reviewed by : Sunny Lu
Cindy Zhu / Assistant Sunny Lu / Assistant Manager



信華科技(深圳)有限公司
Audix Technology (Shenzhen) Co., Ltd.
EMC 部門報告專用章

Stamp only for EMC Dept. Report

Signature: David Jin

Approved & Authorized Signer :

David Jin / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission Test	FCC Part 15C: 15.207 ANSI C63.10-2009	PASS
Radiated Emission Test	FCC Part 15C: 15.209 FCC Part 15C: 15.249 ANSI C63.10-2009	PASS
Band Edge Compliance Test	FCC Part 15: 15.249 ANSI C63.10-2009	PASS
20dB Bandwidth Test	FCC Part 15: 15.215 ANSI C63.10-2009	PASS
N/A is an abbreviation for Not Applicable.		

2. GENERAL INFORMATION

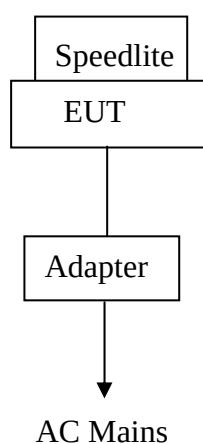
2.1. Description of Device (EUT)

Product Name	: Wireless Flash Trigger Receiver
Model Number	: TGT-E3+(R)
FCC ID	: 2AEJW-TGTE3R
Operation frequency	: 2405MHz-2475MHz
Antenna	: Internal PCB PIFA Antenna, 3.0dBi gain
Modulation	: DSSS
Applicant	: Shenzhen Aodelan Technology Co., Ltd. Room 501. Block A. Guoren Building. Keji Central 3rd Road. Hi-Tech Park. Nanshan District. Shenzhen. Guangdong. China
Manufacturer	: Shenzhen Fudasi Technology Co., Ltd. B Building, Shengde Industrial Park, Dalang Longhua Town, Baoan District Shenzhen City, 518109 China
Power Adapter	: Manufacturer: NALIN Model: NLA1000501U1 Unshielded, Detachable 1.5m
Flash Cable	: Unshielded, Detachable 30cm
Date of Test	: Feb.13~28, 2015
Date of Receipt	: Feb.10, 2015
Sample Type	: Prototype production

2.2. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1.	Speedlite	N/A	N/A	600 EX-RT	N/A	N/A

2.3. EUT Configuration and operation conditions for test.



(EUT: Wireless Flash Trigger Receiver)

2.4. Test Facility

Site Description

Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd. No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China
3m Anechoic Chamber	:	Certificated by FCC, USA Registration Number: 90454 Valid Date: Dec.30, 2017
3m & 10m Anechoic Chamber	:	Certificated by FCC, USA Registration Number: 794232 Valid Date: Oct.31, 2015
EMC Lab.	:	Certificated by Industry Canada Registration Number: IC 5183A-1 Valid Date: May.14, 2017
	:	Certificated by DAkkS, Germany Registration No: D-PL-12151-01-00 Valid Date: Dec.15, 2016
	:	Accredited by NVLAP, USA NVLAP Code: 200372-0 Valid Date: Mar.31, 2015

2.5. Measurement Uncertainty (95% confidence levels, k=2)

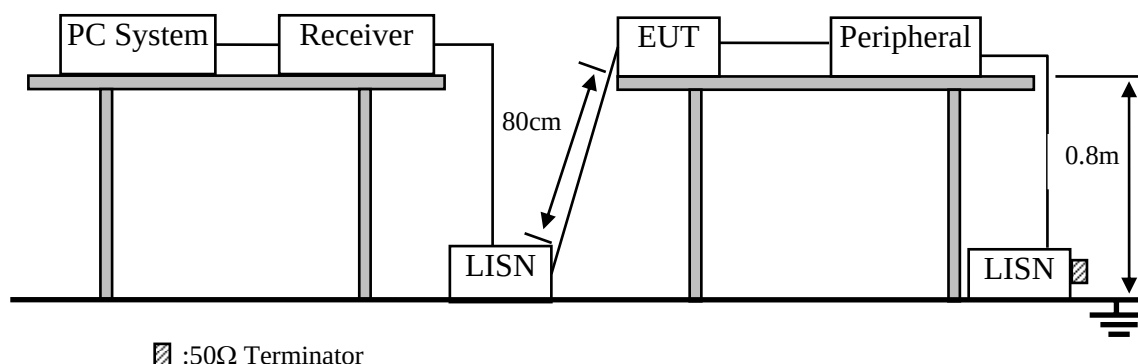
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.10dB(150kHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.22 dB(30~200MHz, Polarize: H)
	3.23 dB(30~200MHz, Polarize: V)
	3.49 dB(200M~1GHz, Polarize: H)
	3.39 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	4.97 dB (1~6GHz, Distance: 3m)
	4.99 dB (6~18GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.57 dB
Uncertainty for Conduction Spurious emission test	2.00 dB
Uncertainty for Output power test	0.73 dB
Uncertainty for Bandwidth test	83 kHz
Uncertainty for DC power test	0.038 %
Uncertainty for test site temperature and humidity	0.6°C
	3%

3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	Apr.17,14	1 Year
2.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Oct.29, 14	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	100429	Oct.29,14	1 Year
4.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	Apr. 28,14	1 Year
5.	Terminator	Hubersuhner	50Ω	No. 1	Apr. 28,14	1 Year
6.	Terminator	Hubersuhner	50Ω	No. 2	Apr. 28,14	1 Year
7.	RF Cable	Hubersuhner	RG58	0100.6954.20#	Oct.29,14	1Year
8.	Coaxial Switch	Anritsu	MP59B	6200298346	Apr. 28,14	1 Year
9.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101838	Oct.29,14	1 Year

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

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

3.4.1. Wireless Flash Trigger Receiver (EUT)

Model Number : TGT-E3+(R)

Serial Number : N/A

3.5.Operating Condition of EUT

- 3.5.1.Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2.Turn on the power of all equipment.
- 3.5.3.Let the EUT work in test mode (TX Mode) and measure it.

3.6.Test Procedure

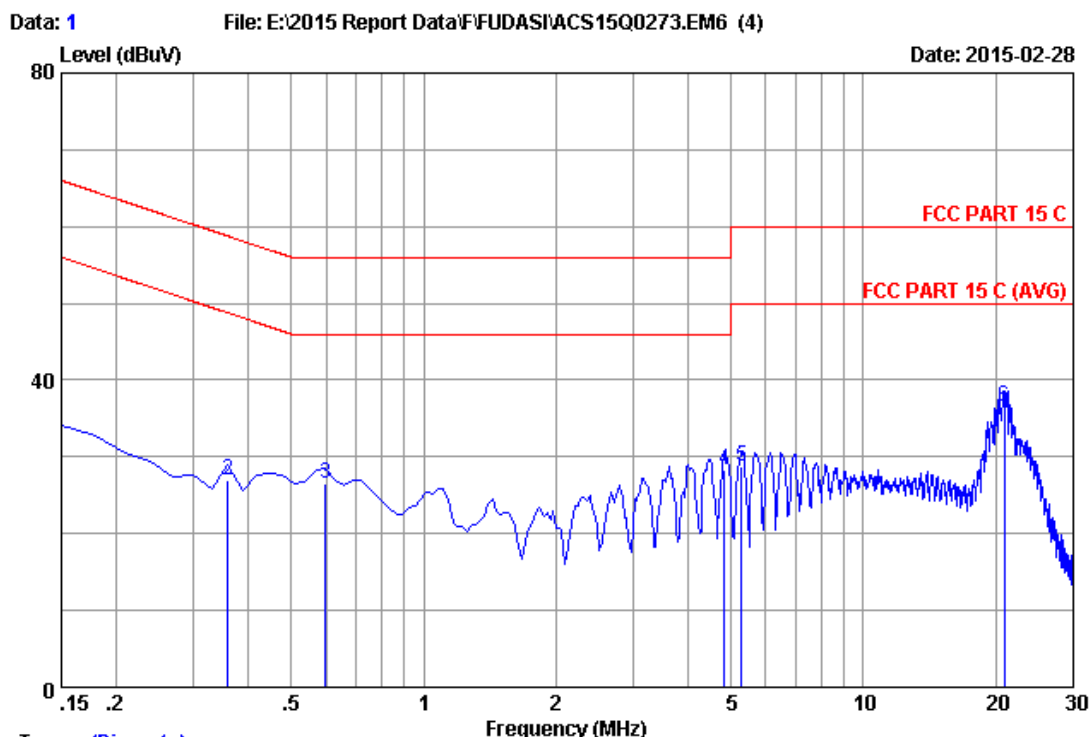
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. #1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#3). this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4-2009 on conducted Emission test.

The bandwidth of test receiver (R&S TEST RECEIVER ESHS10) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked. The test result are reported on Section 3.7.

3.7.Conducted Disturbance at Mains Terminals Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

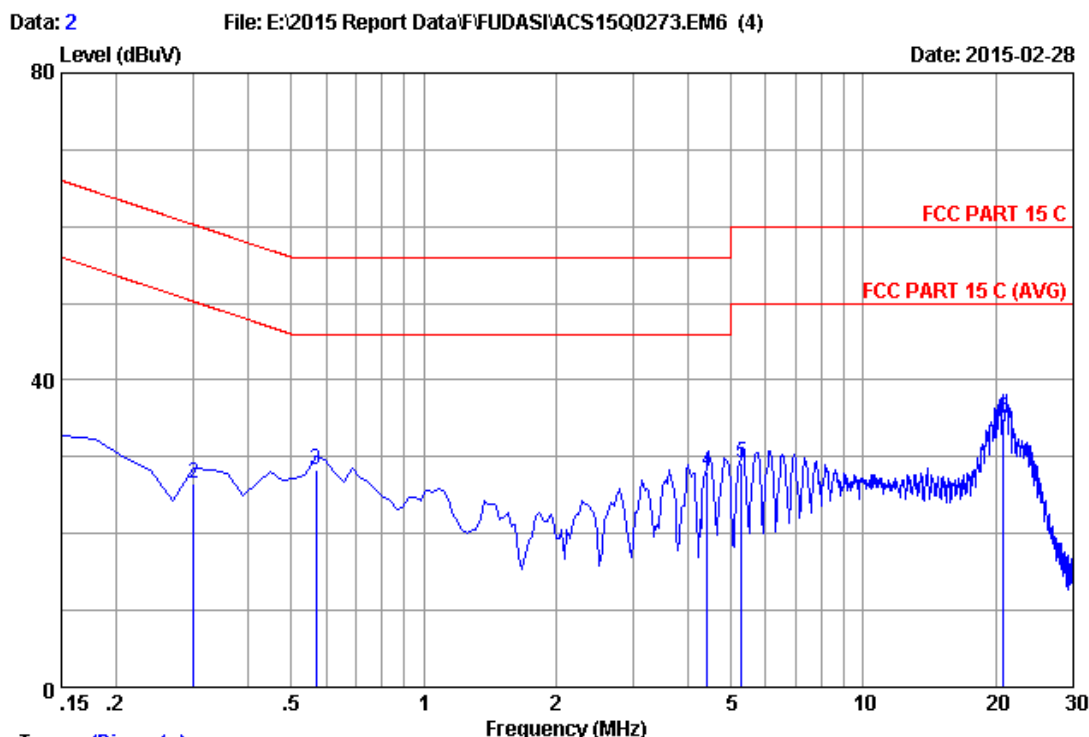


Trace: (Discrete)

Site no	:1# Conduction	Data No	:1
Dis./Ant.	:2014 ESH2-Z5 LINE		
Limit	:FCC PART 15 C		
Env./Ins.	:23.1°C/56%	Engineer	:Leo_Li
EUT	:Wireless Flash Trigger Receiver		
Power Rating	:DC 5V From Adapter Input AC 120V/60Hz		
Test Mode	:Tx Mode		
	M/N:TGT-E3+(R)		

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.14	9.89	22.00	32.03	66.00	33.97	QP
2	0.35895	0.28	9.90	16.69	26.87	58.75	31.88	QP
3	0.59775	0.15	9.91	16.38	26.44	56.00	29.56	QP
4	4.836	0.24	9.97	18.10	28.31	56.00	27.69	QP
5	5.284	0.25	9.97	18.62	28.84	60.00	31.16	QP
6	20.896	0.67	10.12	25.71	36.50	60.00	23.50	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.


Trace: (Discrete)

Site no	:1# Conduction	Data No	:2
Dis./Ant.	:2014 ESH2-Z5 NEUTRAL		
Limit	:FCC PART 15 C		
Env./Ins.	:23.1°C/56%	Engineer	:Leo_Li
EUT	:Wireless Flash Trigger Receiver		
Power Rating	:DC 5V From Adapter Input AC 120V/60Hz		
Test Mode	:Tx Mode		
	M/N: TGT-E3+(R)		

No	Freq (MHz)	LISN	Cable	Reading (dBuV)	Emission			Remark
		Factor (dB)	Loss (dB)		Level (dBuV)	Limits (dBuV)	Margin (dB)	
1	0.15000	0.13	9.89	20.70	30.72	66.00	35.28	QP
2	0.29925	0.15	9.90	16.46	26.51	60.26	33.75	QP
3	0.56790	0.16	9.90	18.13	28.19	56.00	27.81	QP
4	4.419	0.26	9.96	17.76	27.98	56.00	28.02	QP
5	5.284	0.28	9.97	18.87	29.12	60.00	30.88	QP
6	20.776	0.76	10.12	24.21	35.09	60.00	24.91	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

4. RADIATED EMISSION TEST

4.1. Test Equipment

Frequency rang: 30~1000MHz

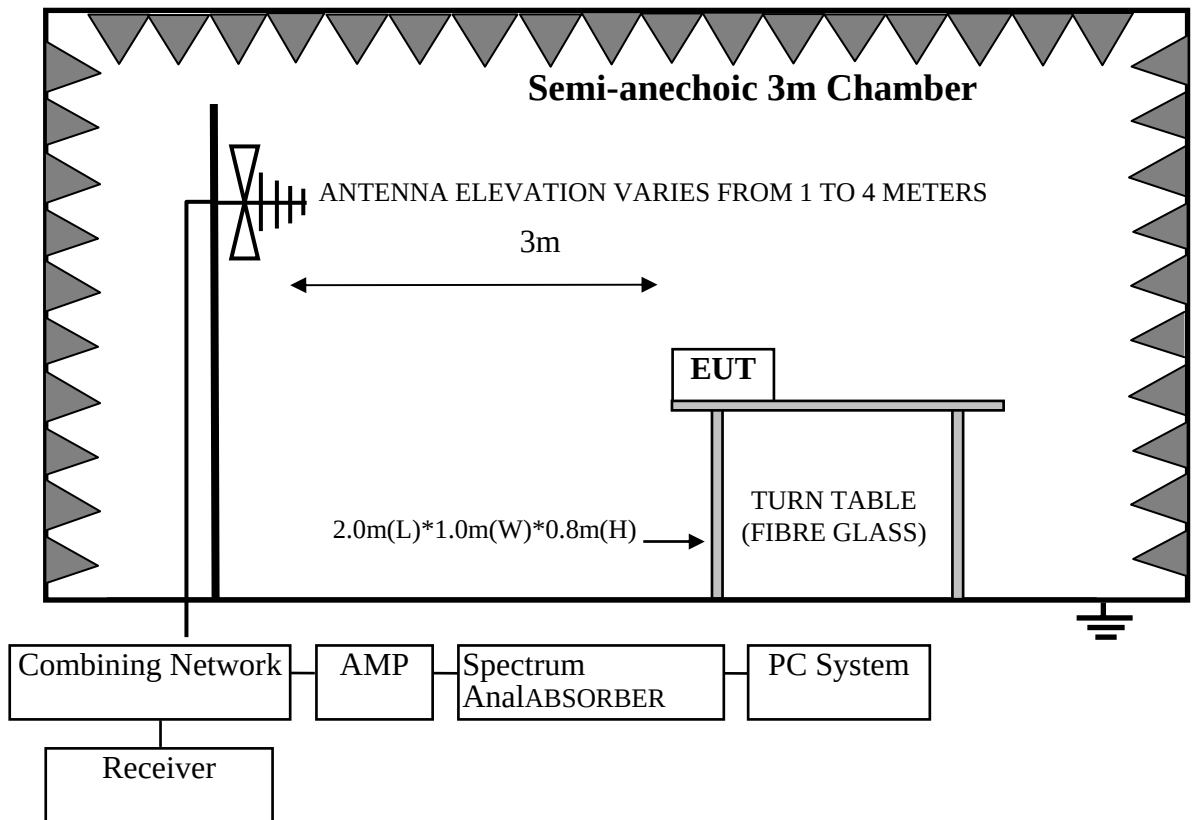
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Nov.23, 14	1 Year
2.	EMI Spectrum	Agilent	E4407B	MY41440292	Apr. 28,14	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	Apr. 28,14	1 Year
4.	Amplifier	HP	8447D	2648A04738	Apr. 28,14	1 Year
5.	Bilog Antenna	TESEQ	CBL6112D	35375	Jun. 18, 14	1 Year
6.	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	Apr. 28,14	1 Year
7.	Coaxial Switch	Anritsu	MP59B	6200313662	Apr. 28,14	1 Year

Frequency rang: above 1000MHz

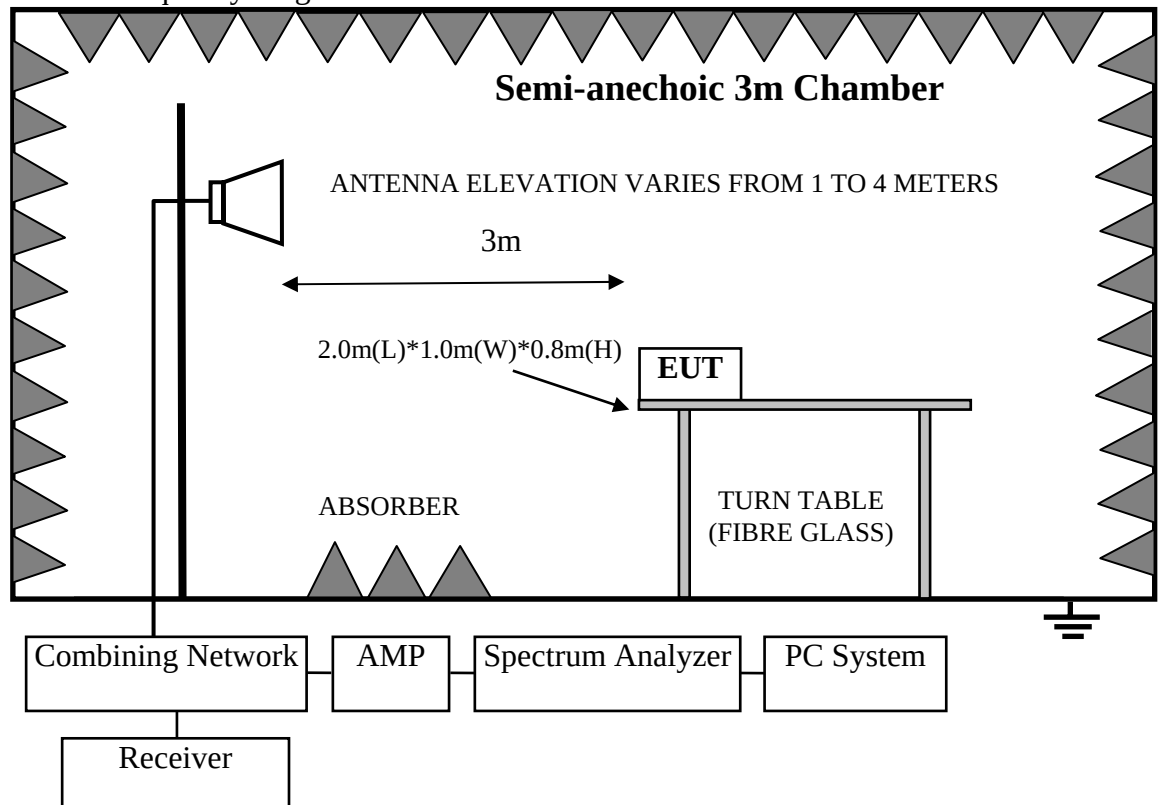
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Nov.02, 14	1 Year
2.	Spectrum Analyzer	Agilent	E4407B	MY41440292	Apr. 28,14	1 Year
3.	Horn Antenna	ETS	3115	9607-4877	Sep.20, 14	1 Year
4.	Amplifier	Agilent	8449B	3008A00863	Apr. 28,14	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	Apr. 28,14	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX106	28616/2	Apr. 28,14	1 Year
7.	Horn Antenna	ETS	3116	00060089	Sep.20, 14	1 Year

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range above 1GHz



4.3. Radiated Emission Limit Standard: FCC 15.209 and 15.249

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000MHz	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	
Field Strength of fundamental emissions for 2.4GHz-2.4835GHz	3	114.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 94.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark :
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V/m}$
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
 - (4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.4.EUT Configuration on Test

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

4.5.Operating Condition of EUT

- 4.5.1.Setup the EUT and simulator as shown as Section 4.2.
- 4.5.2.Turned on the power of all equipment.
- 4.5.3.Let EUT work in Tx mode.

4.6.Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 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 polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2009 on radiated emission Test.

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions.

After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation show in the test setup photos.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz

This device is pulse modulated, a duty cycle factor was used to calculate average level based measured peak level.

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

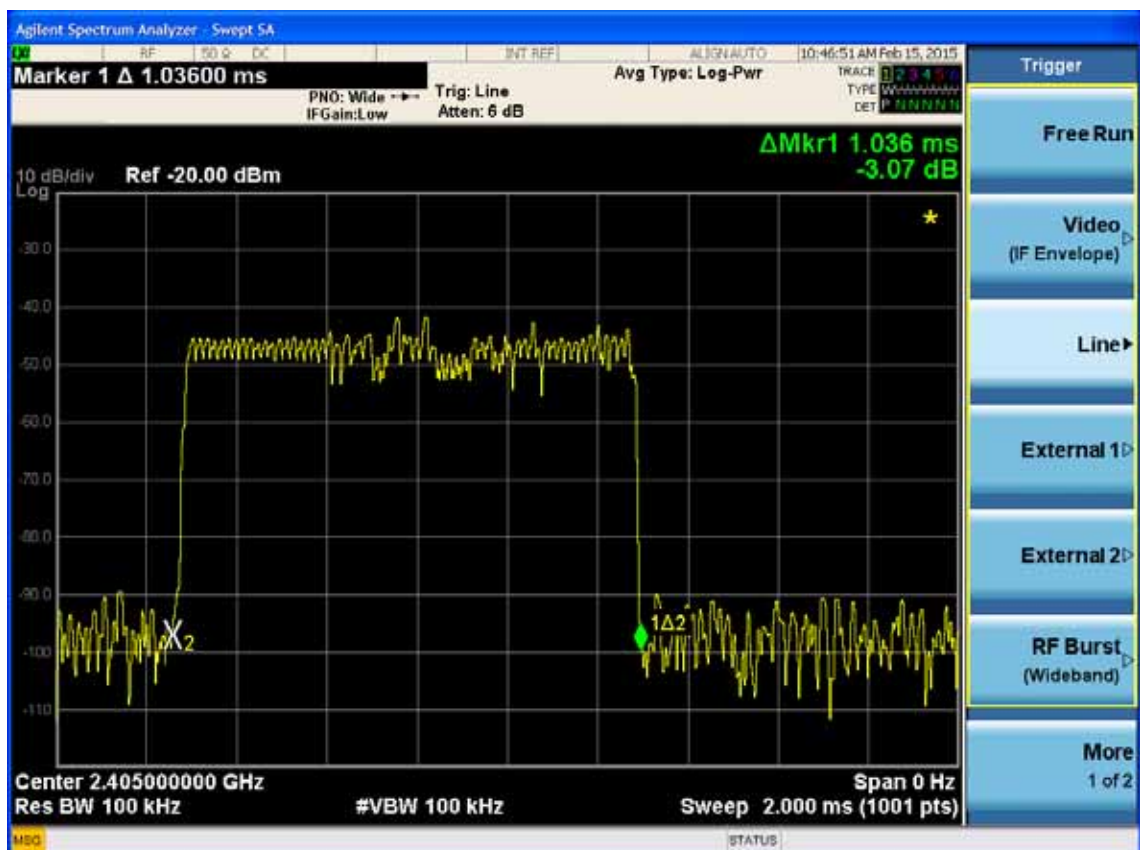
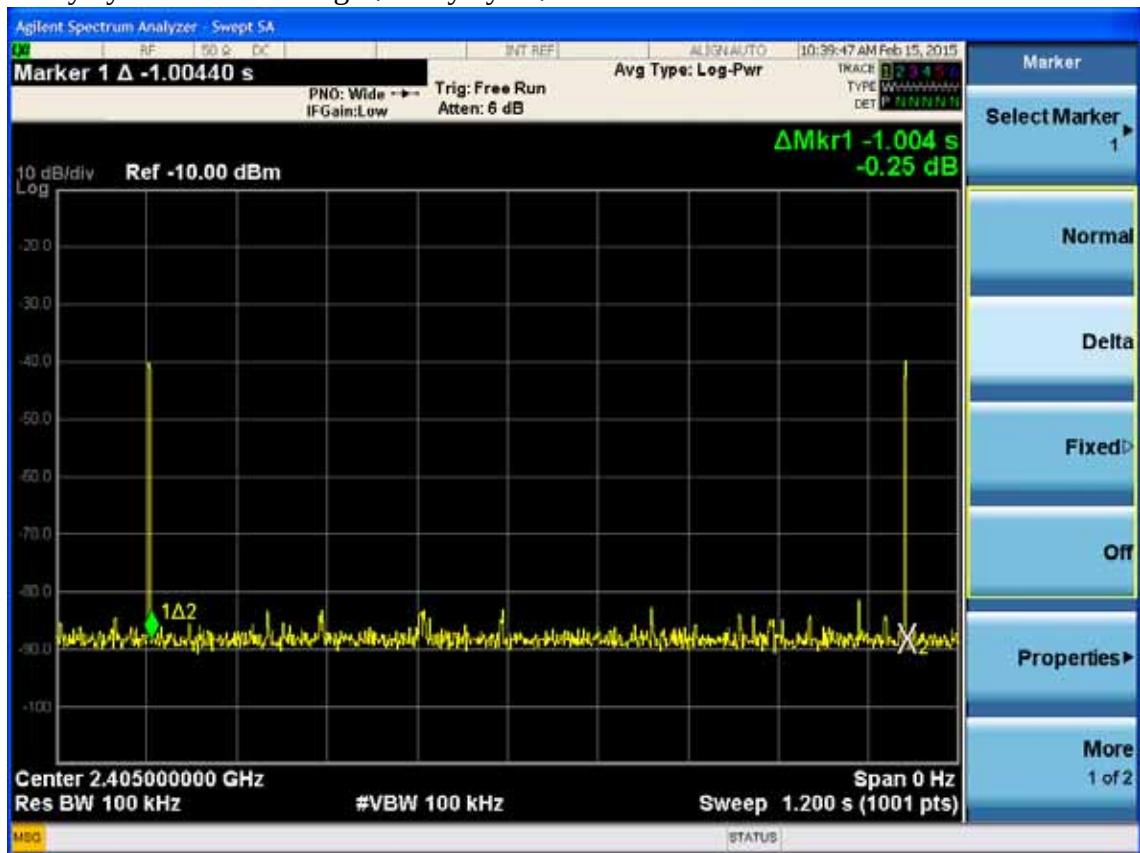
4.7.Radiated Emission Test Results

PASS.

All the emissions from 30MHz to 25GHz were comply with the 15.209 Limit.

Note: The duty cycle factor for calculate average level is -60.273 dB, and average limit is 20dB below peak limit, so if peak measured level comply with average limit, the average level was deemed to comply with average limit.

Duty cycle factor = $20 \log (1/\text{duty cycle}) = -60.273$

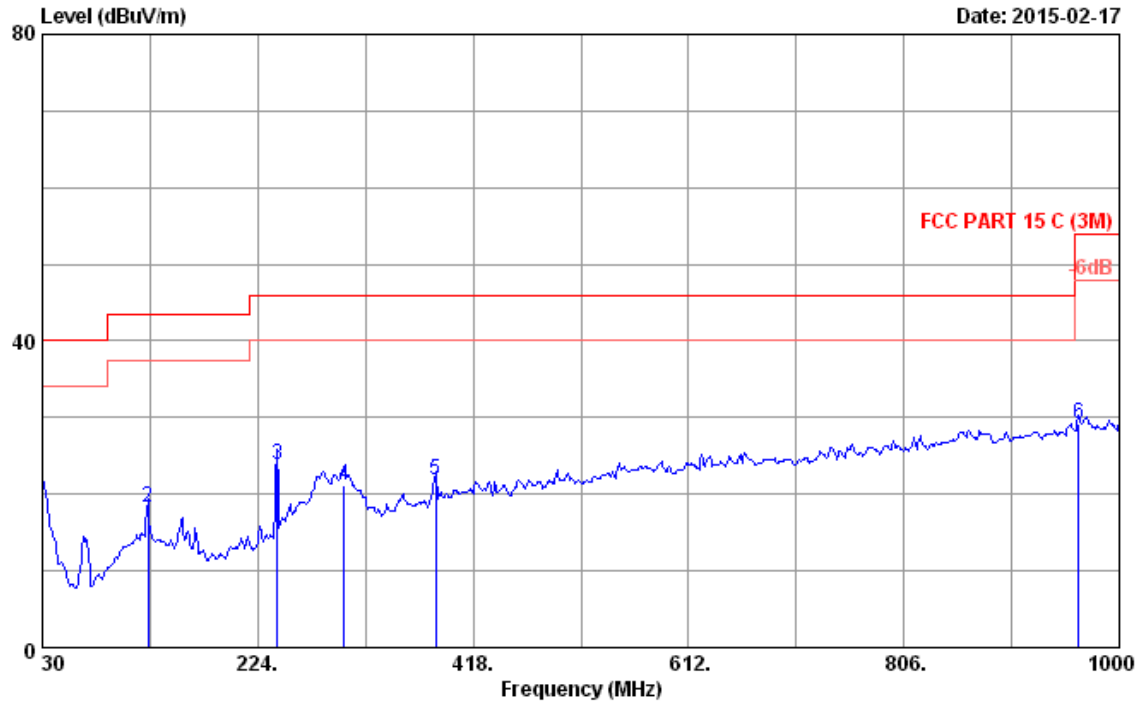


Frequency: 30MHz~1GHz

Data: 1

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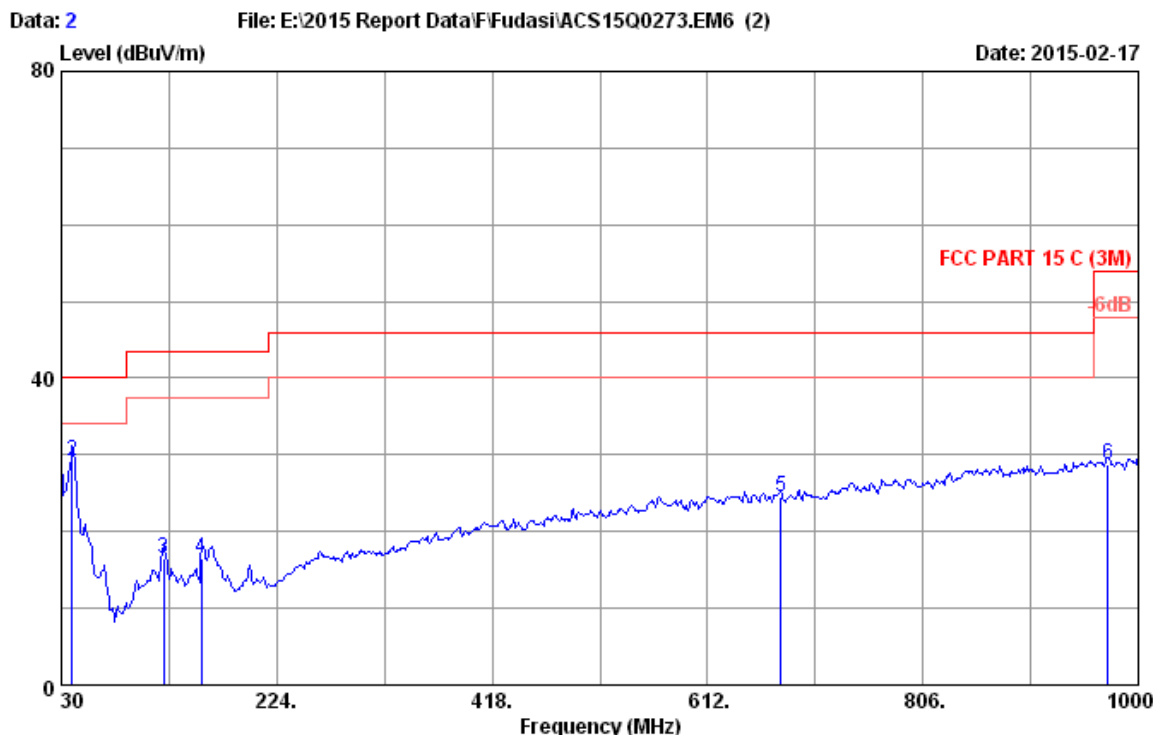
Date: 2015-02-17



Site no. : 3m Chamber Data no. : 1
Dis. / Ant. : 3m 2014 CBL6112D 35375 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24.5°C/64% Engineer : Leo-Li
EUT : Wireless Flash Trigger Receiver
Power rating : DC 5V From Adapter Input AC 120V/60Hz
Test Mode : Tx Mode
M/N : TGT-E3+(R)

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	19.60	0.60	0.90	21.10	40.00	18.90	QP
2	125.060	12.85	1.35	4.12	18.32	43.50	25.18	QP
3	241.460	12.45	2.04	9.45	23.94	46.00	22.06	QP
4	301.600	14.03	2.28	4.88	21.19	46.00	24.81	QP
5	384.050	16.06	2.73	3.06	21.85	46.00	24.15	QP
6	963.140	22.66	5.10	1.47	29.23	54.00	24.77	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

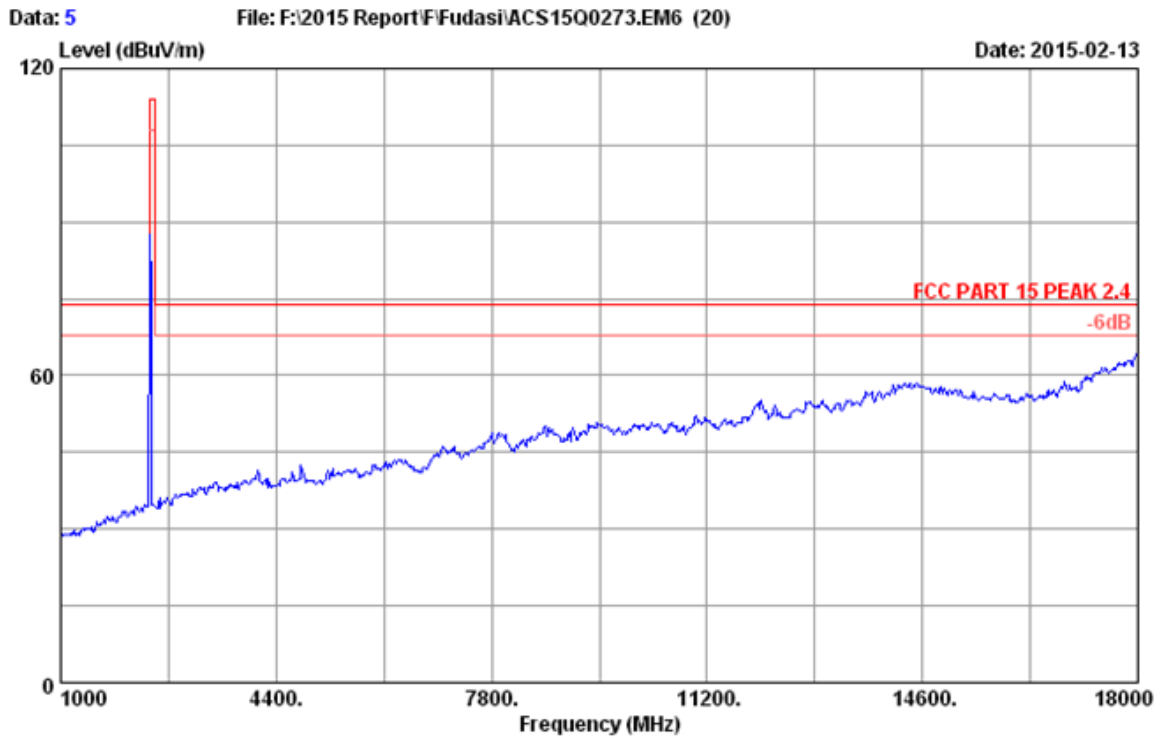


Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2014 CBL6112D 35375 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24.5°C/64% Engineer : Leo-Li
 EUT : Wireless Flash Trigger Receiver
 Power rating : DC 5V From Adapter Input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N : TGT-E3+(R)

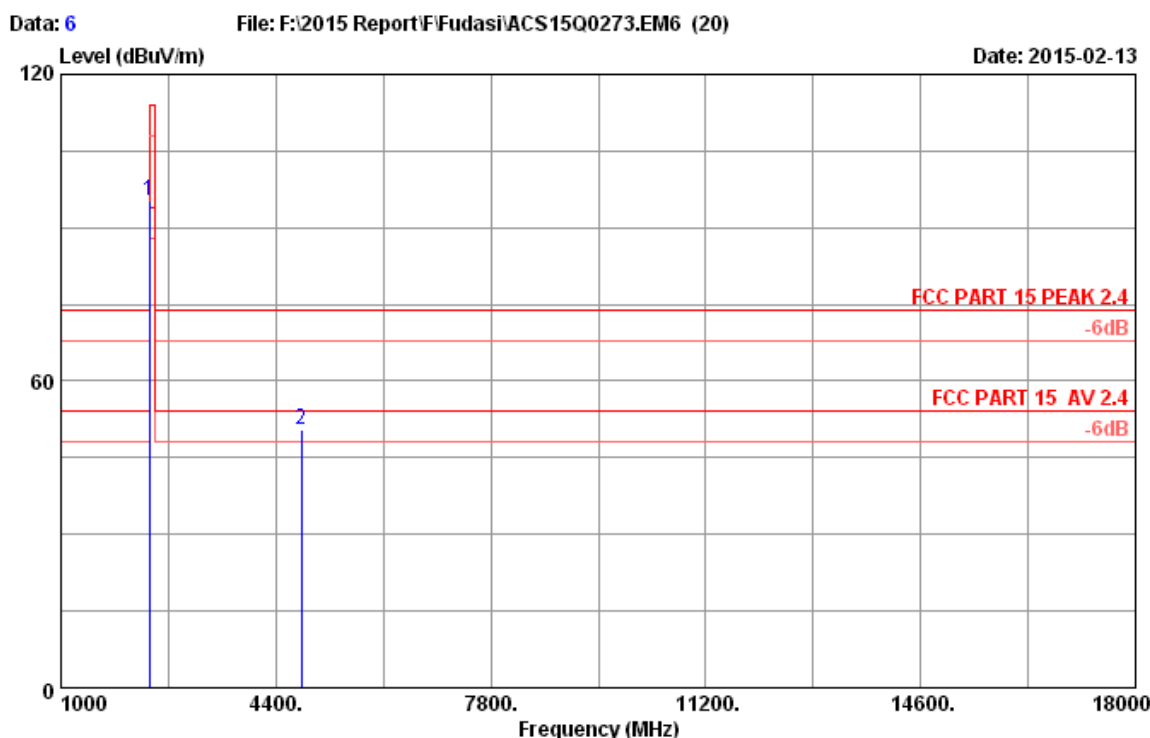
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	19.60	0.60	6.30	26.50	40.00	13.50	QP
2	39.700	13.97	0.69	14.47	29.13	40.00	10.87	QP
3	122.150	12.81	1.32	2.32	16.45	43.50	27.05	QP
4	156.100	11.00	1.58	3.83	16.41	43.50	27.09	QP
5	677.960	20.00	4.04	0.46	24.50	46.00	21.50	QP
6	972.840	22.70	5.13	0.84	28.67	54.00	25.33	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~18GHz



Site no.	: 3m Chamber	Data no.	: 5
Dis. / Ant.	: 3m 2014 3115 (4580)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15 PEAK 2.4		
Env. / Ins.	: 22.5°C/51.6%		
Engineer	: Black_Yan		
EUT	: Wireless Flash Trigger Receiver		
Power rating	: DC 5V From Adapter Input 120V/60Hz		
Test Mode	: 2405MHz Tx		
M/N	: TGT-E3+(R)		

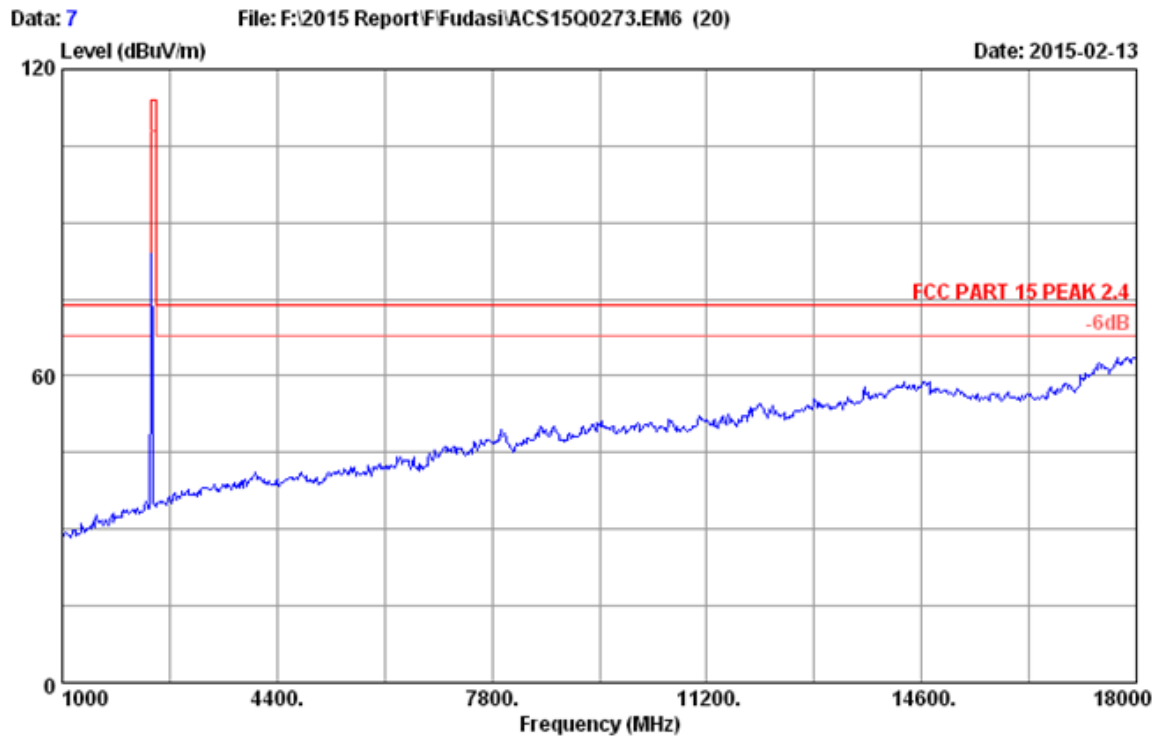


Site no. : 3m Chamber Data no. : 6
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 22.5°C/51.6%
Engineer : Black_Yan
EUT : Wireless Flash Trigger Receiver
Power rating : DC 5V From Adapter Input 120V/60Hz
Test Mode : 2405MHz Tx
M/N : TGT-E3+(R)

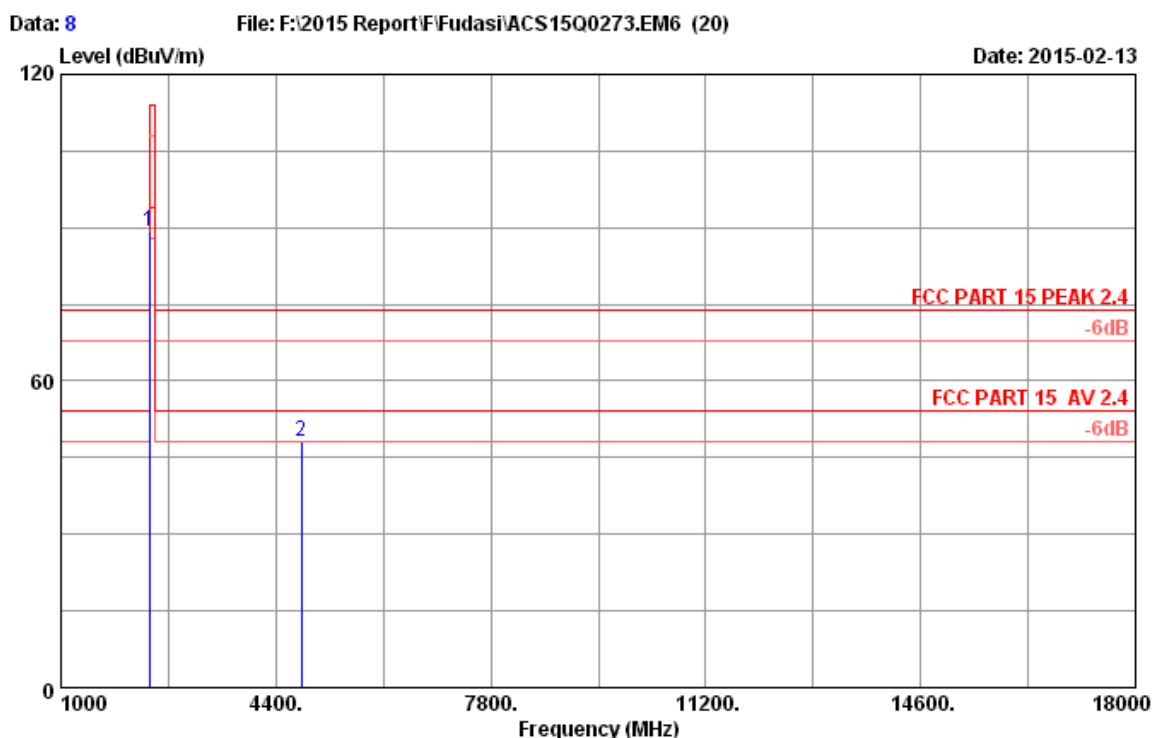
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2405.000	28.19	5.80	35.70	96.83	95.12	114.00	18.88	Peak
2	4810.000	32.86	8.57	35.70	44.72	50.45	74.00	23.55	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
2405	95.12	-60.273	34.847	94	Pass



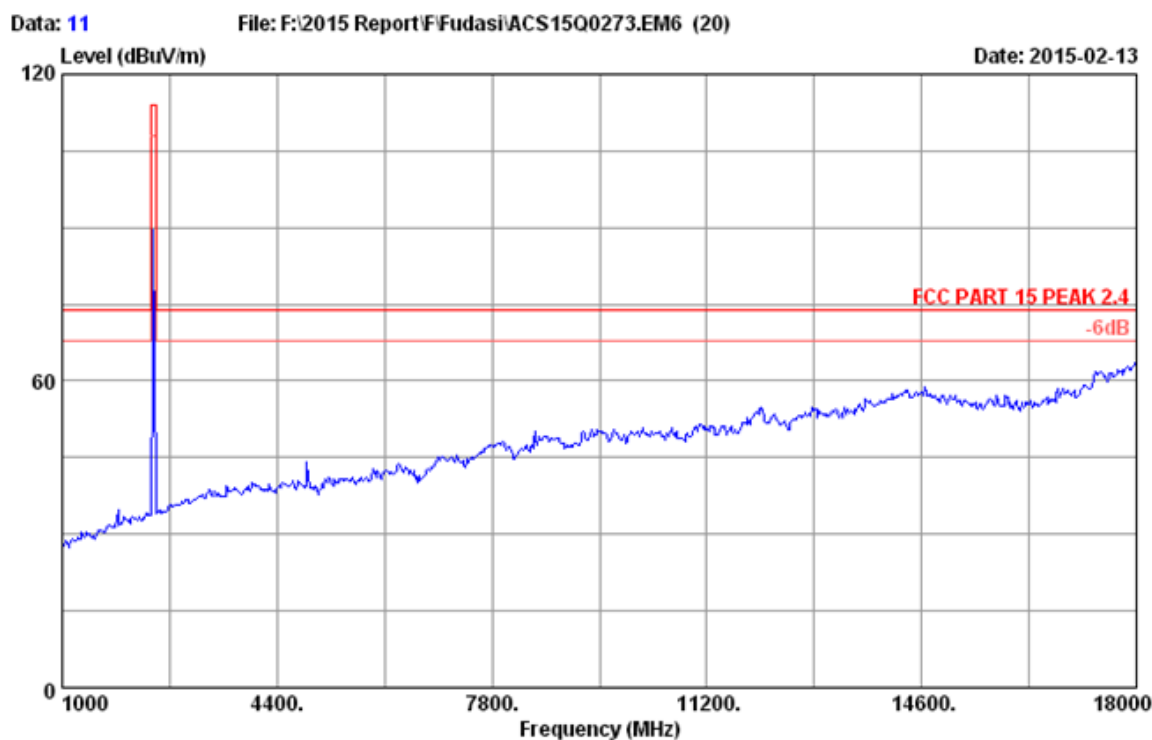
Site no.	: 3m Chamber	Data no.	: 7
Dis. / Ant.	: 3m 2014 3115 (4580)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15 PEAK 2.4		
Env. / Ins.	: 22.5°C/51.6%		
Engineer	: Black_Yan		
EUT	: Wireless Flash Trigger Receiver		
Power rating	: DC 5V From Adapter Input 120V/60Hz		
Test Mode	: 2405MHz Tx		
M/N	: TGT-E3+(R)		



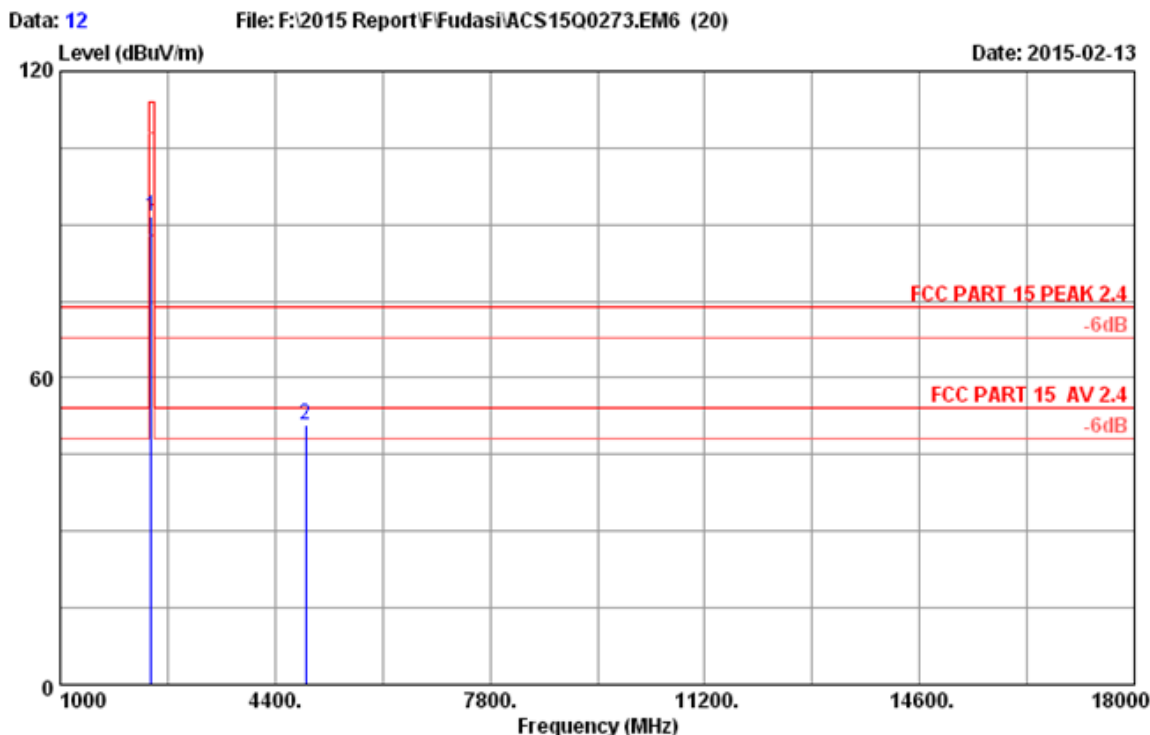
Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 22.5°C/51.6%
 Engineer : Black_Yan
 EUT : Wireless Flash Trigger Receiver
 Power rating : DC 5V From Adapter Input 120V/60Hz
 Test Mode : 2405MHz Tx
 M/N : TGT-E3+(R)

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2405.000	28.19	5.80	35.70	90.93	89.22	114.00	24.78	Peak
2	4810.000	32.86	8.57	35.70	42.27	48.00	74.00	26.00	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



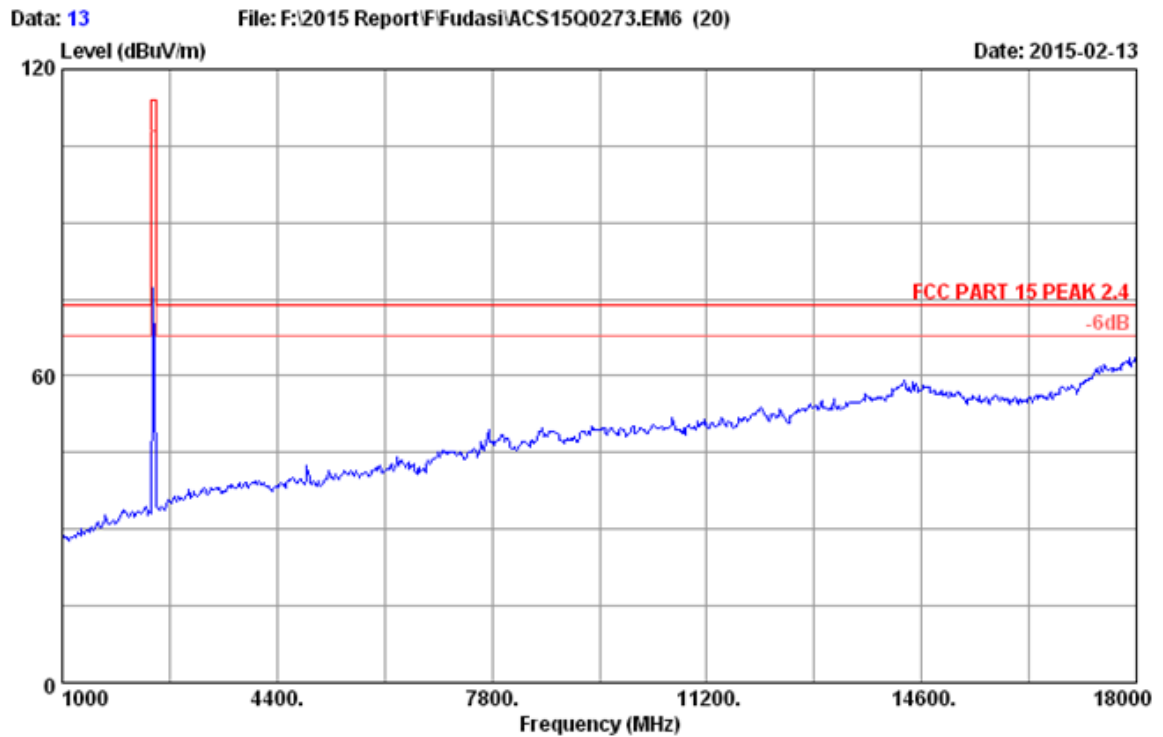
Site no. : 3m Chamber Data no. : 11
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 22.5°C/51.6%
 Engineer : Black_Yan
 EUT : Wireless Flash Trigger Receiver
 Power rating : DC 5V From Adapter Input 120V/60Hz
 Test Mode : 2440MHz Tx
 M/N : TGT-E3+(R)



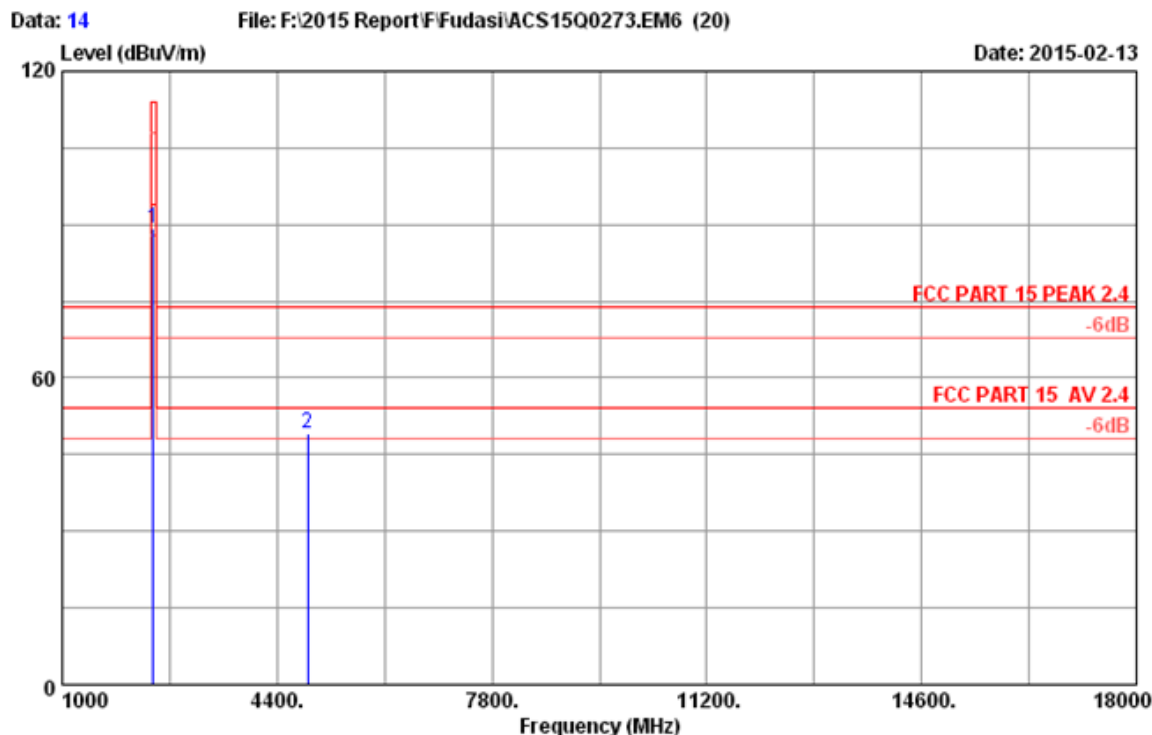
Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 22.5°C/51.6%
 Engineer : Black_Yan
 EUT : Wireless Flash Trigger Receiver
 Power rating : DC 5V From Adapter Input 120V/60Hz
 Test Mode : 2440MHz Tx
 M/N : TGT-E3+(R)

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2440.000	28.27	5.86	35.70	93.24	91.67	114.00	22.33	Peak
2	4880.000	32.98	8.64	35.70	44.78	50.70	74.00	23.30	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



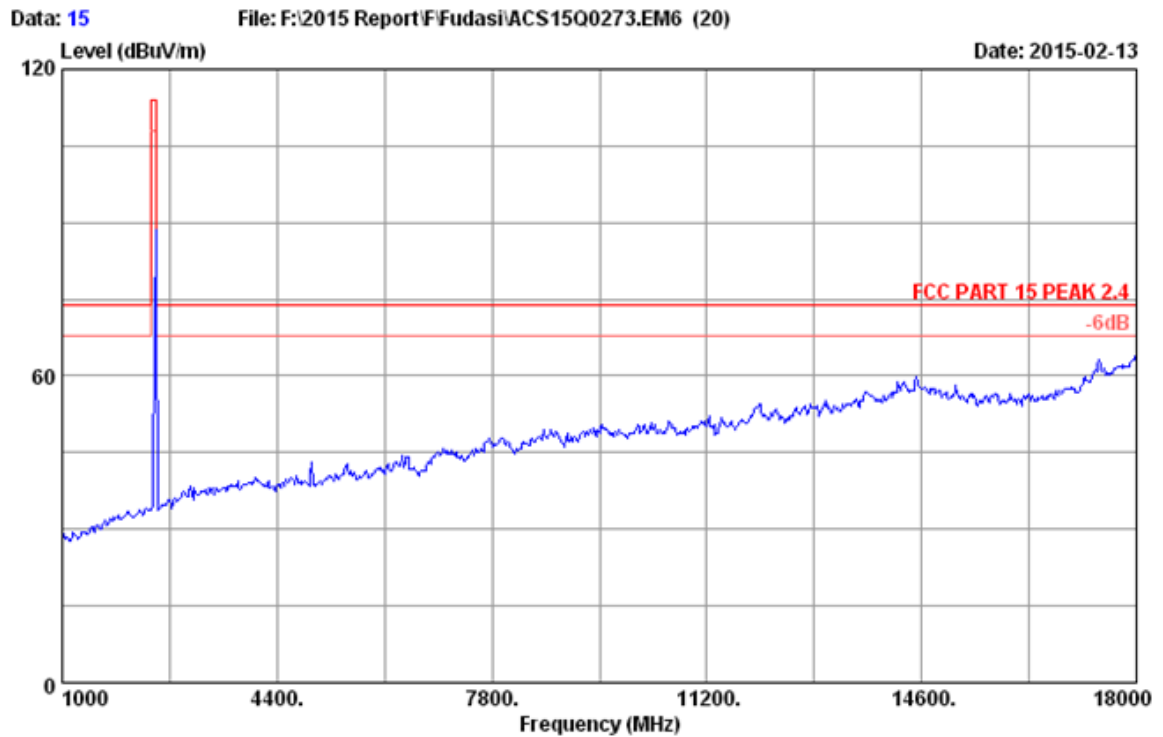
Site no. : 3m Chamber Data no. : 13
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 22.5°C/51.6%
Engineer : Black_Yan
EUT : Wireless Flash Trigger Receiver
Power rating : DC 5V From Adapter Input 120V/60Hz
Test Mode : 2440MHz Tx
M/N : TGT-E3+(R)



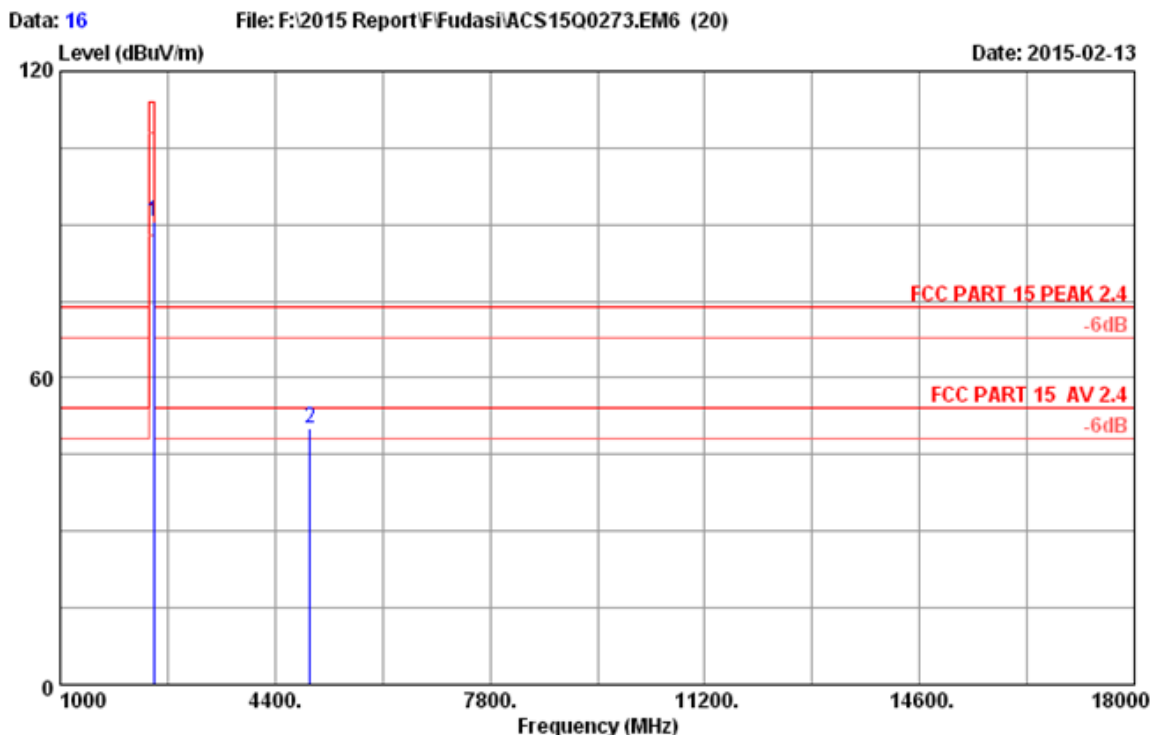
Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 22.5°C/51.6%
 Engineer : Black_Yan
 EUT : Wireless Flash Trigger Receiver
 Power rating : DC 5V From Adapter Input 120V/60Hz
 Test Mode : 2440MHz Tx
 M/N : TGT-E3+(R)

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2440.000	28.27	5.86	35.70	90.75	89.18	114.00	24.82	Peak
2	4880.000	32.98	8.64	35.70	43.26	49.18	74.00	24.82	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



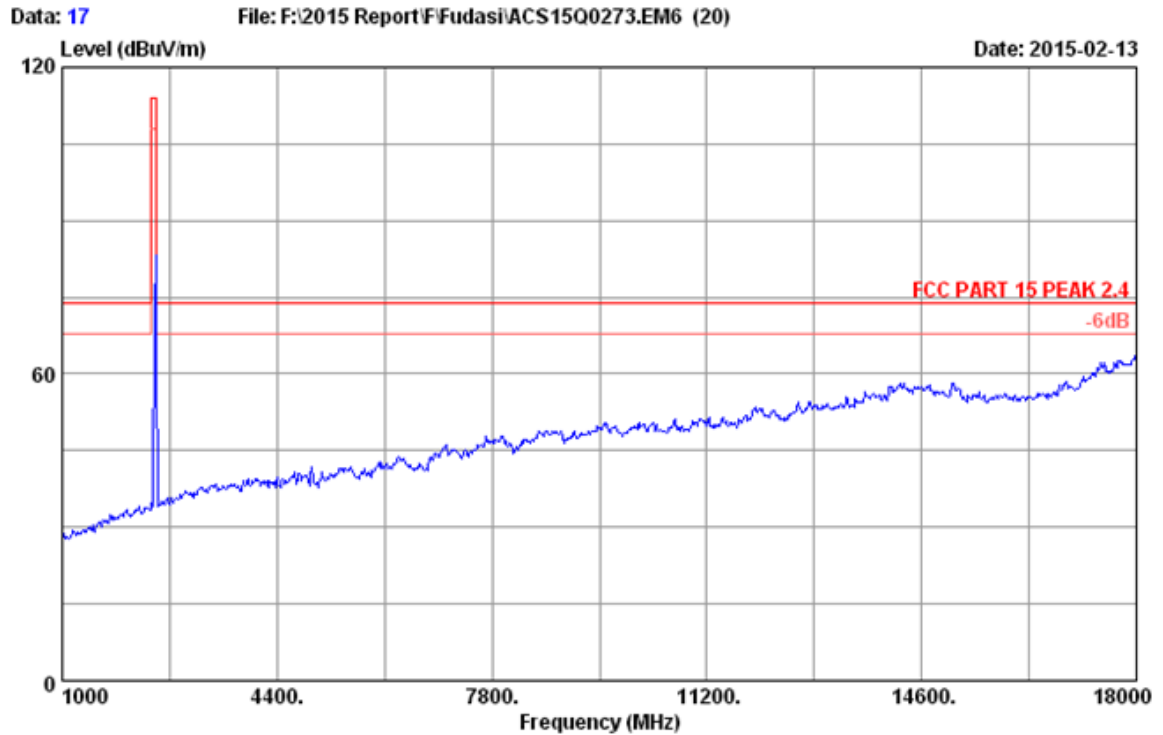
Site no.	: 3m Chamber	Data no.	: 15
Dis. / Ant.	: 3m 2014 3115 (4580)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15 PEAK 2.4		
Env. / Ins.	: 22.5°C/51.6%		
Engineer	: Black_Yan		
EUT	: Wireless Flash Trigger Receiver		
Power rating	: DC 5V From Adapter Input 120V/60Hz		
Test Mode	: 2475MHz Tx		
M/N	: TGT-E3+(R)		



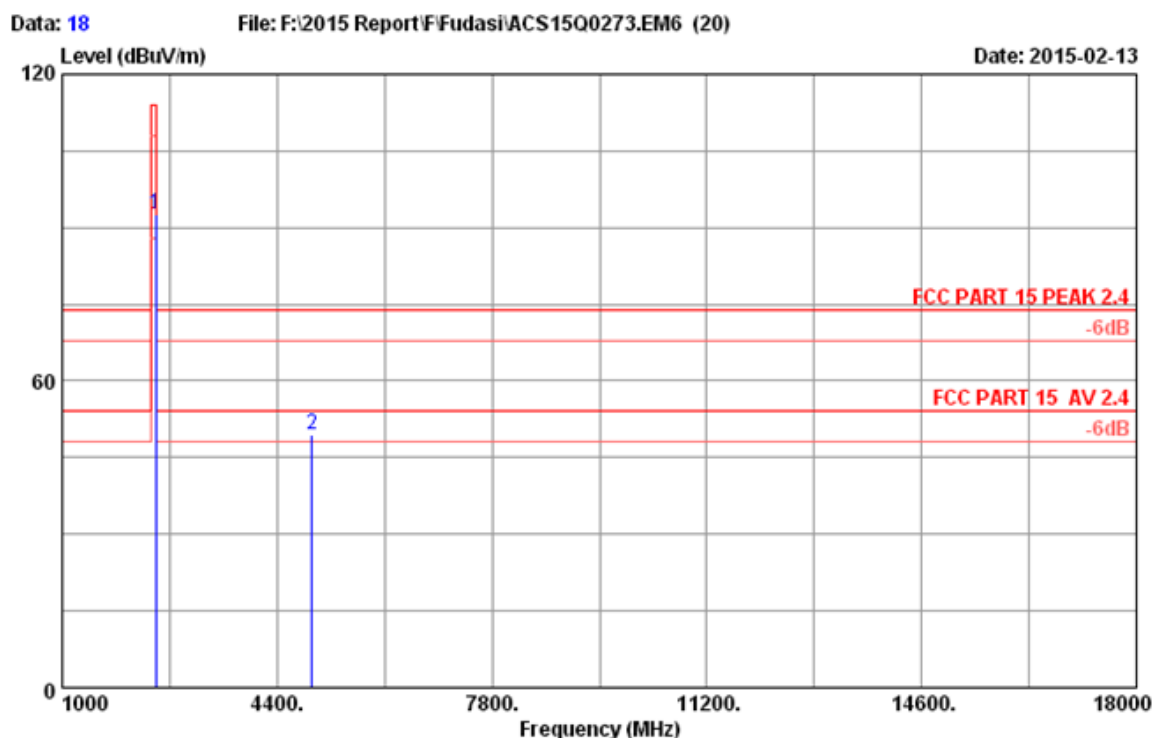
Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 22.5°C/51.6%
 Engineer : Black_Yan
 EUT : Wireless Flash Trigger Receiver
 Power rating : DC 5V From Adapter Input 120V/60Hz
 Test Mode : 2475MHz Tx
 M/N : TGT-E3+(R)

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2475.000	28.34	5.91	35.70	92.08	90.63	114.00	23.37	Peak
2	4950.000	33.11	8.71	35.70	43.92	50.04	74.00	23.96	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 22.5°C/51.6%
 Engineer : Black_Yan
 EUT : Wireless Flash Trigger Receiver
 Power rating : DC 5V From Adapter Input 120V/60Hz
 Test Mode : 2475MHz Tx
 M/N : TGT-E3+(R)



Site no. : 3m Chamber Data no. : 18
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 22.5°C/51.6%
Engineer : Black_Yan
EUT : Wireless Flash Trigger Receiver
Power rating : DC 5V From Adapter Input 120V/60Hz
Test Mode : 2475MHz Tx
M/N : TGT-E3+(R)

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2475.000	28.34	5.91	35.70	93.88	92.43	114.00	21.57	Peak
2	4950.000	33.11	8.71	35.70	43.31	49.43	74.00	24.57	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.

5. 20 DB BANDWIDTH TEST

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.29, 14	1Year
2.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,14	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Apr. 28,14	1 Year

5.2. Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.3. Test Results

EUT: Wireless Flash Trigger Receiver		
M/N: TGT-E3+(R)		
Test date: 2015-02-15	Pressure: 101.1±1.0 kpa	Humidity: 51.6±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature : 22.7±0.6°C

Frequency	20dB Bandwidth (MHz)	Limit (MHz)
2405MHz	2.542	N/A
2440MHz	2.554	N/A
2475MHz	2.545	N/A
Conclusion : PASS		

Test Frequency: 2405MHz



Test Frequency: 2440MHz



Test Frequency: 2475MHz



6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Amp	HP	8449B	3008A02495	Apr. 28,14	1 Year
2.	Horn Antenna	ETS	3115	9510-4580	Jun. 06, 14	1 Year
3.	HF Cable	Hubersuhner	Sucoflex104	274094/4	Apr. 28,14	1 Year
4.	RF Cable	Hubersuhner	Sucoflex102	28610/2	Apr. 28,14	1 Year

6.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

6.3. Test Produce

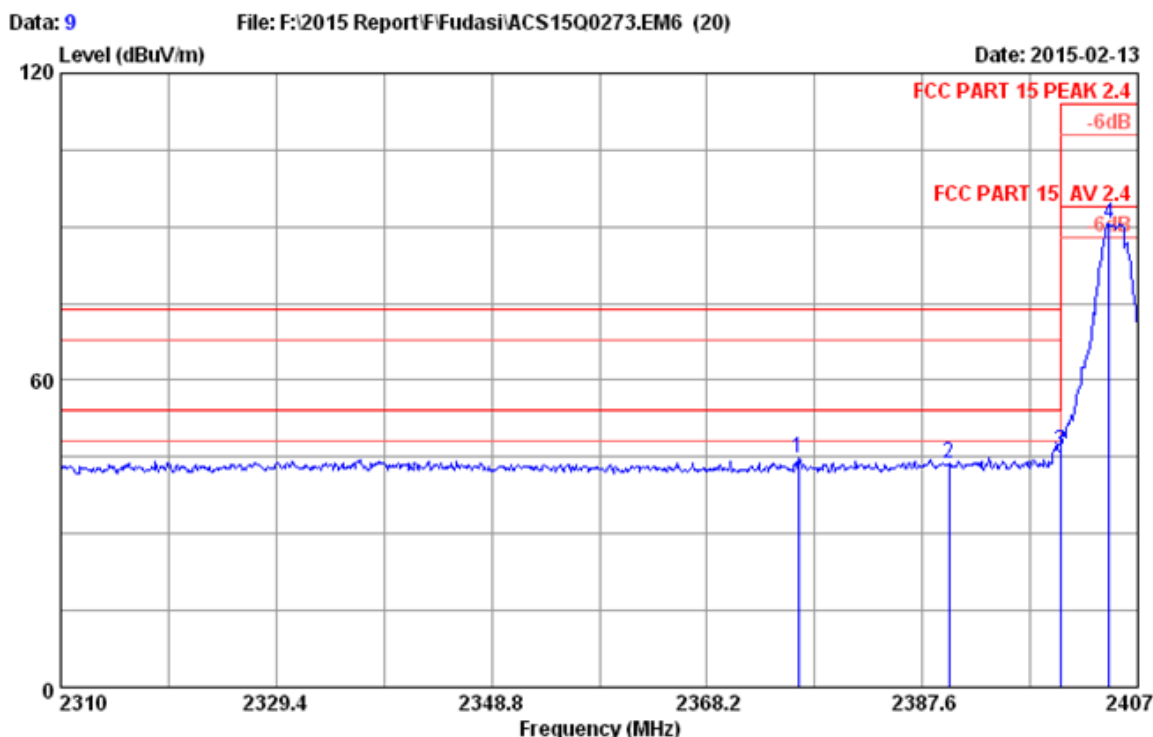
1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
 - (a) PEAK: RBW=1MHz ;VBW=3MHz, PK detector, Sweep=AUTO
 - (b) This device is pulse modulated, a duty cycle factor was used to calculate average level based measured peak level

6.4. Test Results

Pass (The testing data was attached in the next pages.)

Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

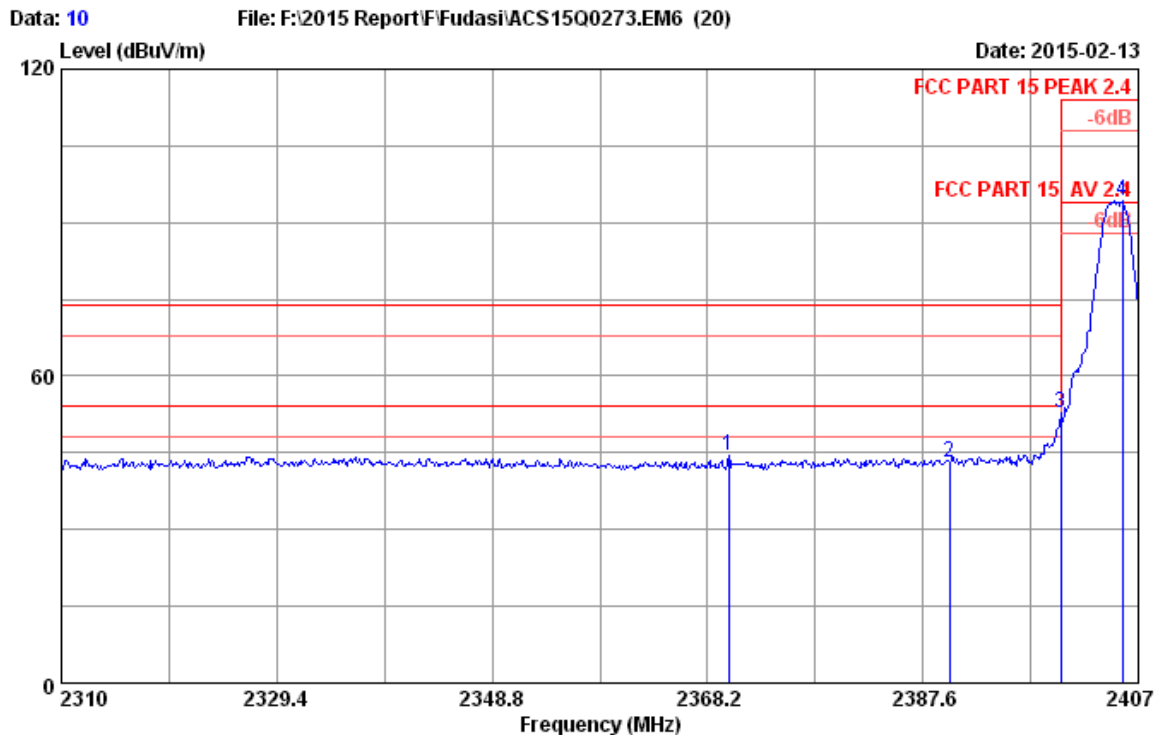
Note: The duty cycle factor for calculate average level is -60.273 dB, and average limit is 20dB below peak limit, so if peak measured level comply with average limit, the average level was deemed to comply with average limit.



Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 22.5°C/51.6%
 Engineer : Black_Yan
 EUT : Wireless Flash Trigger Receiver
 Power rating : DC 5V From Adapter Input 120V/60Hz
 Test Mode : 2405MHz Tx
 M/N : TGT-E3+(R)

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2376.445	28.13	5.76	35.70	46.60	44.79	74.00	29.21	Peak
2	2390.000	28.16	5.78	35.70	45.45	43.69	74.00	30.31	Peak
3	2400.000	28.18	5.80	35.70	47.72	46.00	74.00	28.00	Peak
4	2404.381	28.19	5.80	35.70	92.17	90.46	114.00	23.54	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

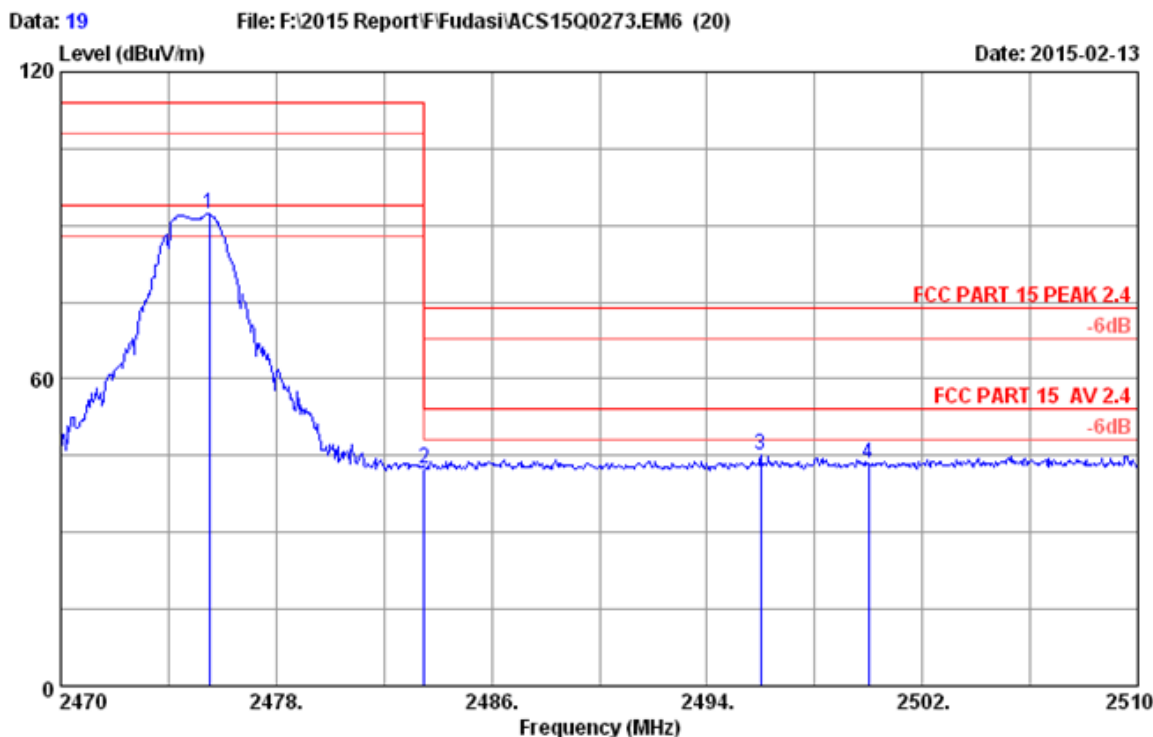


Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 22.5°C/51.6%
 Engineer : Black_Yan
 EUT : Wireless Flash Trigger Receiver
 Power rating : DC 5V From Adapter Input 120V/60Hz
 Test Mode : 2405MHz Tx
 M/N : TGT-E3+(R)

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2370.140	28.11	5.75	35.70	46.13	44.29	74.00	29.71	Peak
2	2390.000	28.16	5.78	35.70	44.94	43.18	74.00	30.82	Peak
3	2400.000	28.18	5.80	35.70	54.42	52.70	74.00	21.30	Peak
4	2405.545	28.19	5.81	35.70	96.05	94.35	114.00	19.65	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

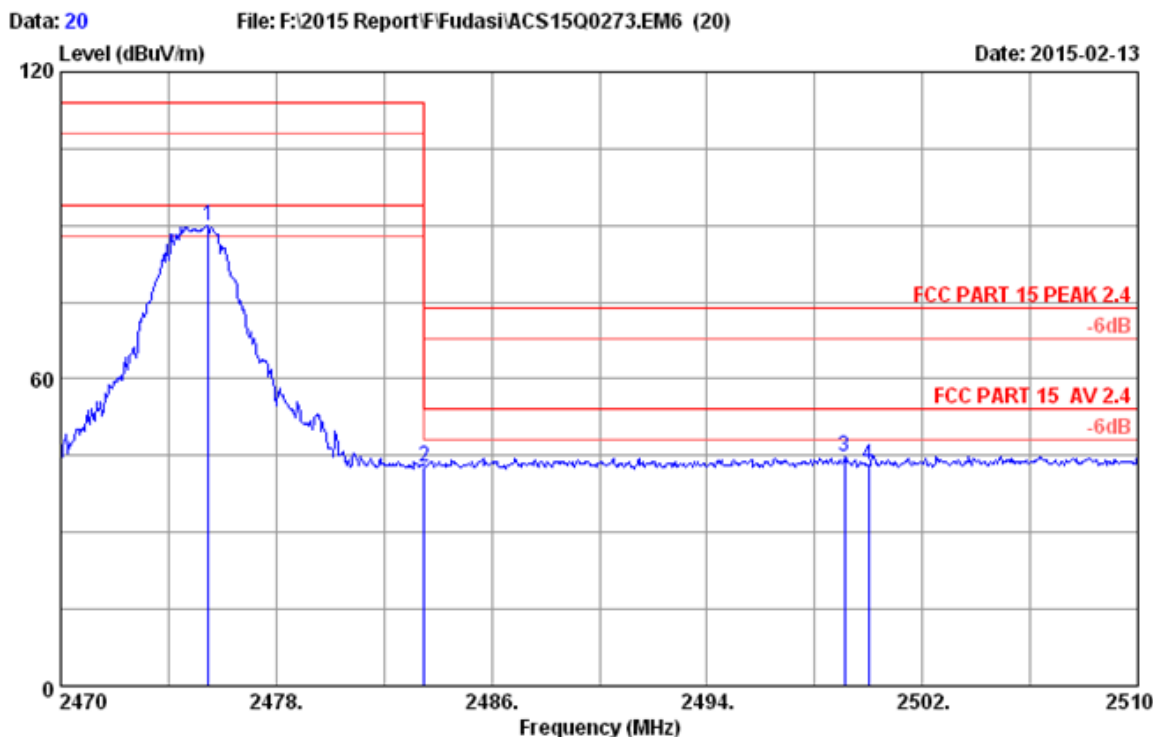
Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
2405	94.35	-60.273	34.077	94	Pass



Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 22.5°C/51.6%
 Engineer : Black_Yan
 EUT : Wireless Flash Trigger Receiver
 Power rating : DC 5V From Adapter Input 120V/60Hz
 Test Mode : 2475MHz Tx
 M/N : TGT-E3+(R)

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2475.520	28.35	5.91	35.70	93.65	92.21	114.00	21.79	Peak
2	2483.500	28.36	5.92	35.70	43.83	42.41	74.00	31.59	Peak
3	2496.000	28.39	5.94	35.70	46.43	45.06	74.00	28.94	Peak
4	2500.000	28.40	5.94	35.70	44.95	43.59	74.00	30.41	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 22.5°C/51.6%
 Engineer : Black_Yan
 EUT : Wireless Flash Trigger Receiver
 Power rating : DC 5V From Adapter Input 120V/60Hz
 Test Mode : 2475MHz Tx
 M/N : TGT-E3+(R)

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2475.480	28.35	5.91	35.70	91.24	89.80	114.00	24.20	Peak
2	2483.500	28.36	5.92	35.70	44.28	42.86	74.00	31.14	Peak
3	2499.120	28.40	5.94	35.70	46.13	44.77	74.00	29.23	Peak
4	2500.000	28.40	5.94	35.70	44.35	42.99	74.00	31.01	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

7. ANTENNA REQUIREMENT

RESULT : PASS

Test Date : Feb.13~28, 2015

Test standard : FCC Part 15.203

Limit : the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 0dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply the provision.

8. RADIO FRREQUENCY EXPOSURE COMPLIANCE

RESULT : PASS

Test standard : FCC KDB Publication 447498 D01 V05

Since maximum peak output power of the transmitter is $<10\text{mW}$, i.e. $0.009346\text{mW} < 10\text{mW}$, hence the EUT is excluded from SAR evaluation according to FCC KDB Publication 447498 D01:General RF Exposure Guidance V05.

9. DEVIATION TO TEST SPECIFICATIONS

[NONE]