FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Elinchrom SA

EL-Skyport

ELSP-T

FCC ID: UV7-ELSPT

Prepared for : Elinchrom SA
1020 Renens, Switzerland, Av. de Longemalle 11

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block,
Shenzhen Science & Industrial Park,
Nantou, Shenzhen, Guangdong, China

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Report Number : ACS-F16014
Date of Test : Jan.07~14, 2016
Date of Report : Jan.21, 2016

TABLE OF CONTENTS

TEST REPORT CERTIFICATION

Applicant	:	Elinchrom SA
Manufacturer	:	Elinchrom SA
EUT Description	:	EL-Skyport
FCC ID	:	UV7-ELSPT
(A) Model No.	:	ELSP-T
(B) Serial No.	:	N/A
(C) Power Supply	:	DC 3V
(D) Test Voltage	:	DC 3V

Tested for comply with:
FCC Rules and Regulations Part 15 Subpart C: 2014

Test procedure used:
ANSI C63.10:2013

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 : Jan.07~14, 2016 Report of date: Jan.21, 2016

Prepared by : Cindy Zhu
Cindy Zhu / Assistant

Reviewed by :
Sunny Lu / Assistant Manager

AUDIX® 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

Approved & Authorized Signer : Signature: David Jin
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 C63.10-2013	N/A
Radiated Emission Test	FCC Part 15C: 15.209 FCC Part 15C: 15.249 ANSI C63.10-2013	PASS
Band Edge Compliance Test	FCC Part 15: 15.249 ANSI C63.10-2013	PASS
20dB Bandwidth Test	FCC Part 15: 15.215 ANSI C63.10-2013	PASS
N/A is an abbreviation for Not Applicable.		

2. GENERAL INFORMATION

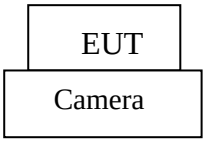
2.1.Description of Device (EUT)

Product Name	:	EL-Skyport
Model Number	:	ELSP-T
FCC ID	:	UV7-ELSPT
Operation frequency	:	2404-2478MHz (Tx)
Antenna	:	Internal PCB Antenna, 3dBi gain
Modulation	:	GFSK
Applicant	:	Elinchrom SA 1020 Renens, Switzerland, Av. de Longemalle 11
Manufacturer	:	Elinchrom SA 1020 Renens, Switzerland, Av. de Longemalle 11
Factory	:	Shenzhen Fudasi Technology Co., Ltd. Floor 3-4, Factory Building B, Shengde Industrial Park, Hekeng Industrial Area, Langkou Community, Dalang Sub-district, Bao'an District, Shenzhen, Guangdong, China
Date of Test	:	Jan.07~14, 2016
Date of Receipt	:	Jan.05, 2016
Sample Type	:	Prototype production

2.1.Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1.	Camera	N/A	Canon	EOS50D	N/A	N/A

2.2.EUT Configuration and operation conditions for test.



(EUT: EL-Skyport)

2.3.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: Jul.12, 2016
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, 2016

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

Test Item	Uncertainty
Uncertainty for Radiation Emission test in 3m chamber	2.6 dB(30~200MHz, Polarization: H)
	2.6 dB(30~200MHz, Polarization: V)
	3.0 dB(200M~1GHz, Polarization: H)
	2.8 dB(200M~1GHz, Polarization: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	6.3 dB (1~6GHz, Distance: 3m)
	5.7 dB (6~18GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.6 dB
Uncertainty for Conduction Spurious emission test	2.0 dB
Uncertainty for Output power test	0.8 dB
Uncertainty for Bandwidth test	83 kHz
Uncertainty for DC power test	0.1 %
Uncertainty for test site temperature and humidity	0.6℃
	3%

3. POWER LINE CONDUCTED EMISSION TEST

According to Paragraph (c) of FCC Part 15 section 15.207, Tests to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

4. RADIATED EMISSION TEST

4.1.Test Equipment

Frequency range: 30~1000MHz

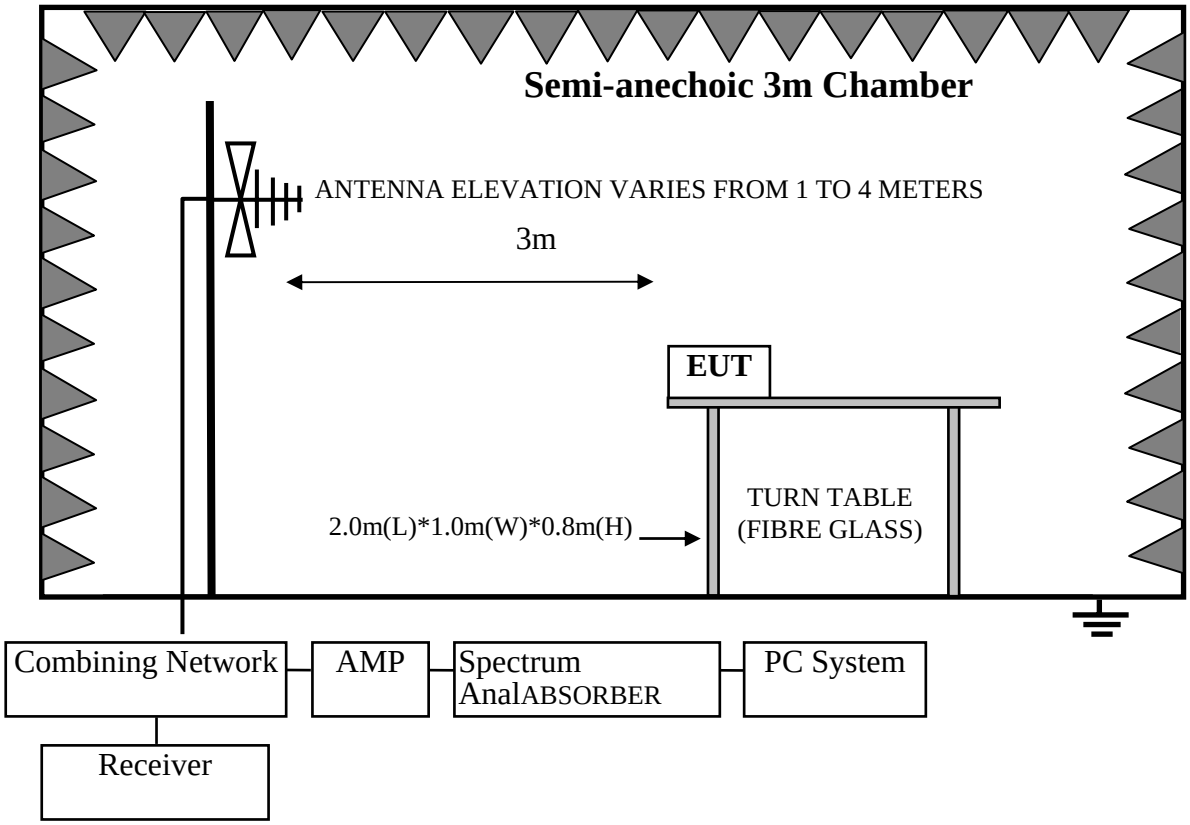
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Mar.28,15	1 Year
2.	EMI Spectrum	Agilent	E4407B	MY41440292	Apr.28,15	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	Apr.28,15	1 Year
4.	Amplifier	HP	8447D	2648A04738	Apr.28,15	1 Year
5.	Bilog Antenna	TESEQ	CBL6112D	35375	Jun.30,15	1 Year
6.	RF Cable	MIYAZAKI	CFD400-NW(3.5M)	No.3	Apr.28,15	1 Year
7.	RF Cable	MIYAZAKI	CFD400-LW(22M)	No.7	Apr.28,15	1 Year
8.	Coaxial Switch	Anritsu	MP59B	6201397222	Apr.28,15	1 Year
9.	MPEG2 Measurement Generator	ROHDE& SCHWARZ	DVG	100319	Nov.02,15	1 Year
10.	Test Software	AUDIX	E3	6.2009-5-21a(n)	N/A	N/A

Frequency range: above 1000MHz

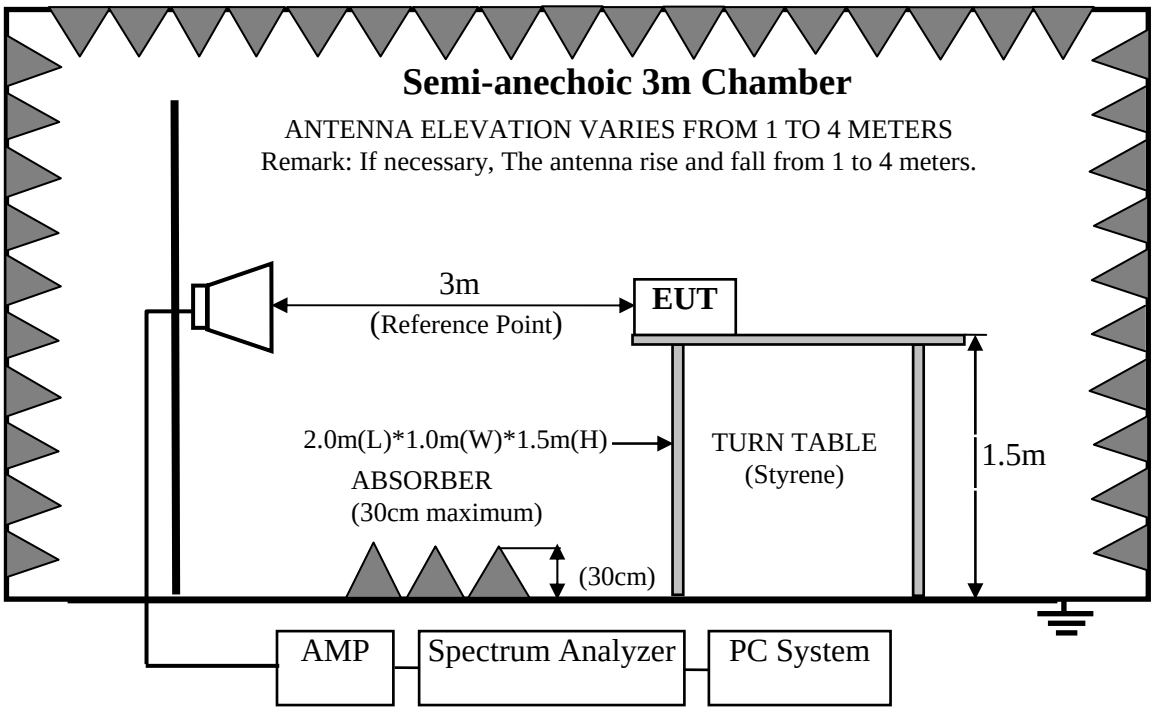
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	Apr.28,15	1 Year
2.	Horn Antenna	ETC	MCTD 1209	DRH15F03007	Feb.03,15	1 Year
3.	Amplifier	Agilent	8449B	3008A02495	Apr.28,15	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	Apr.28,15	1 Year
5.	Horn Antenna	ETS	3116	00060088	Nov.18.15	1 Year
6.	Test Software	AUDIX	E3	6.2009-5-21a(n)	N/A	N/A

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	
		μV/m	dB(μV)/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 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	
Field Strength of fundamental emissions for 2.4GHz-2.4835GHz	3	114.0 dB(μV)/m (Peak) 94.0 dB(μV)/m (Average)	

Remark： (1) Emission level dBμV = 20 log Emission level μV/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.Turn on the power of all equipments.
4.5.3.Let EUT work in Tx mode.

4.6. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground for frequency 30MHz~1000MHz, 1.5 meter high above ground for frequency above 1GHz and put the absorbing with 2.4m(L)*2.4m(W)*0.3m(H) on the ground . The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it.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 for frequency 30MHz~1000MHz, and the Horm antenna is used as receiving antenna for frequency above 1GHz. 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 C63.10-2013 on radiated emission Test.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as the test photo indicated.

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.

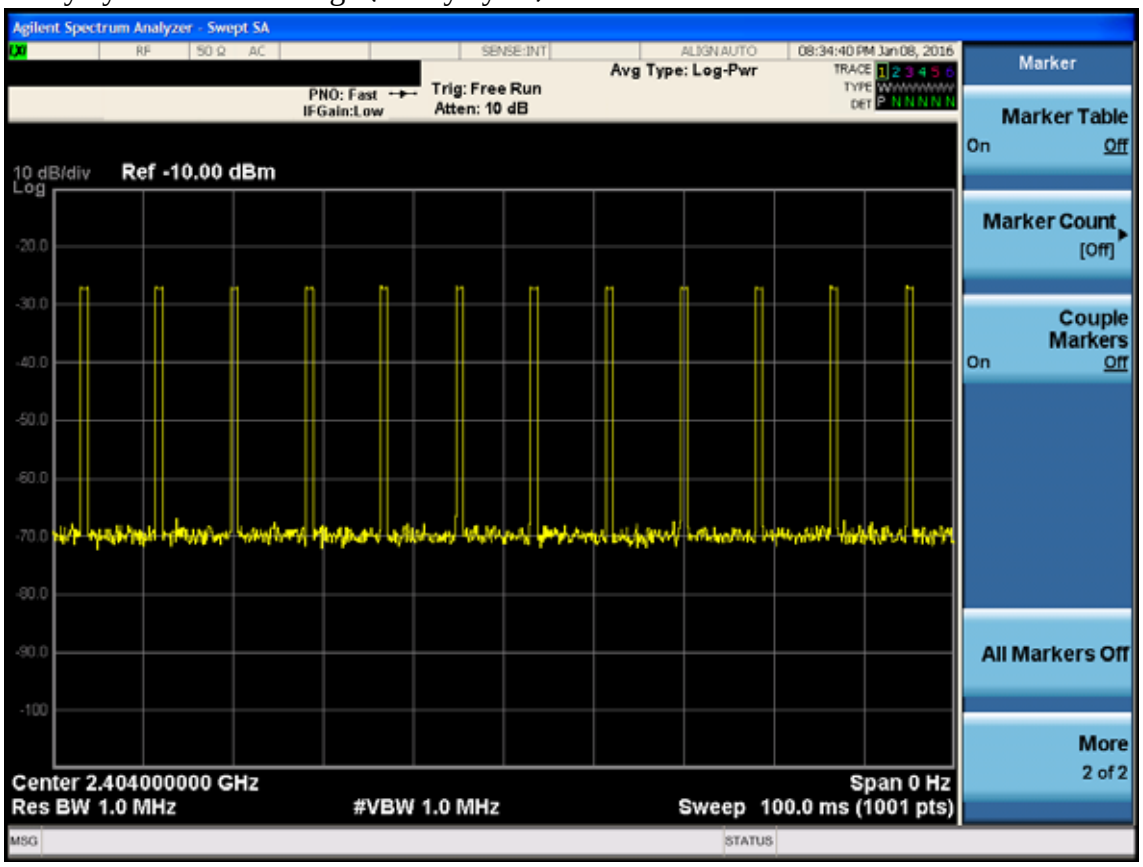
4.7. Radiated Emission Test Results

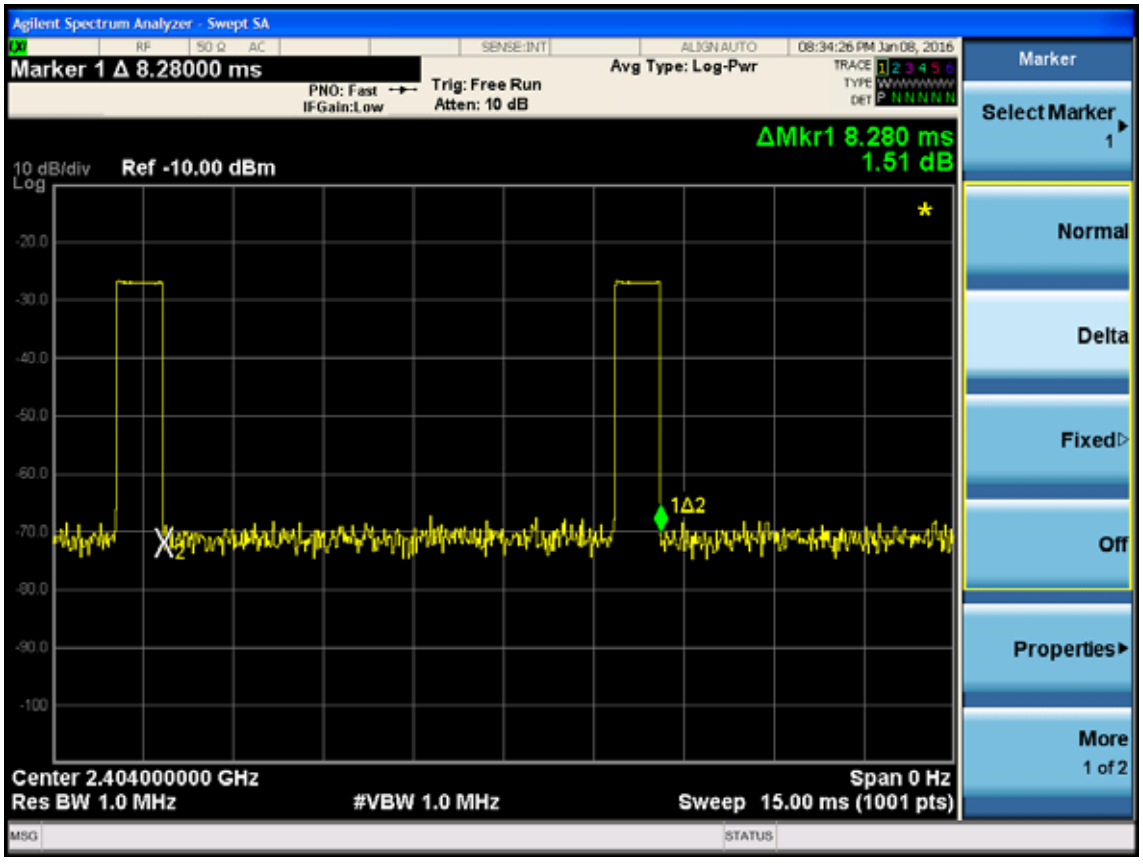
PASS.

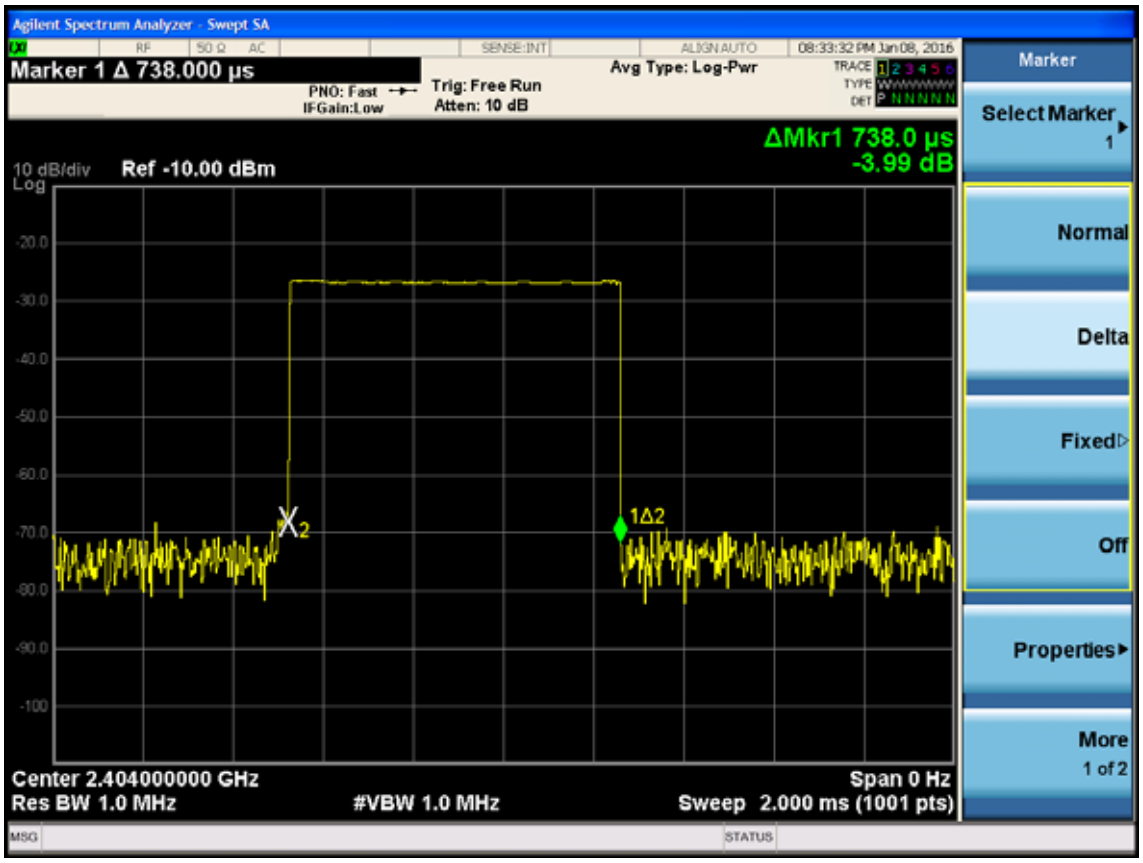
All the emissions from 30MHz to 25GHz were comply with the 15.209 Limit.

Note: The duty cycle factor for calculate average level is 21.055 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.

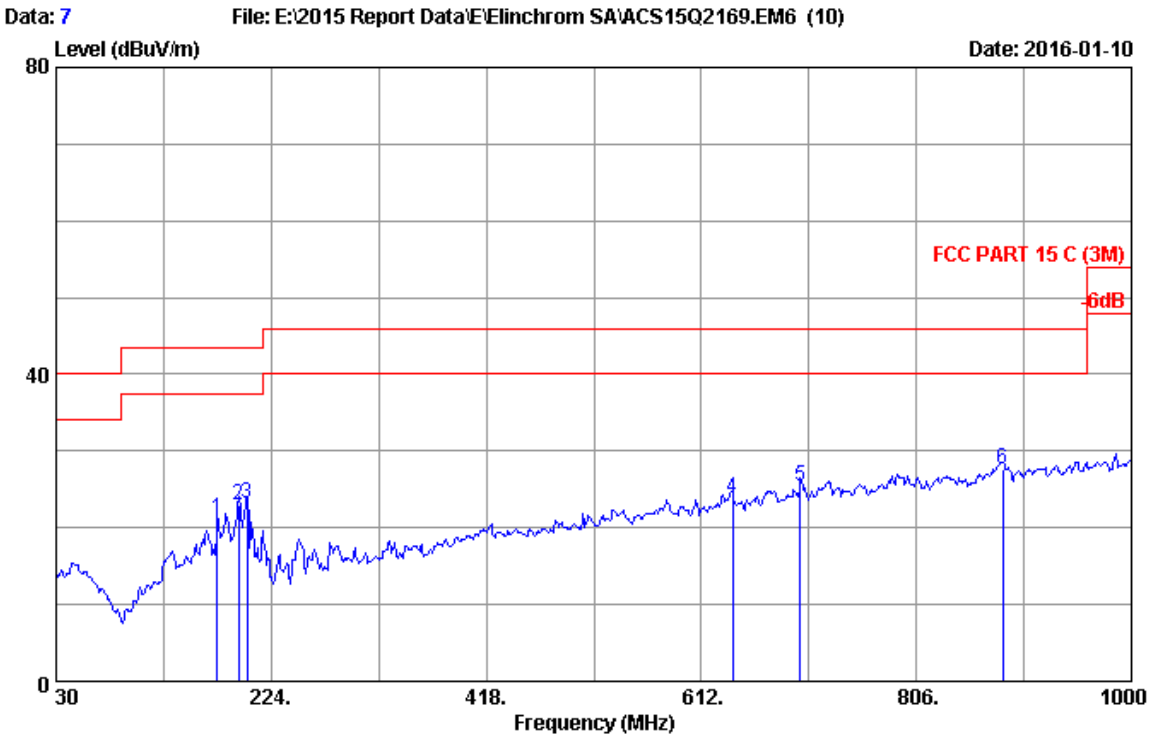
Duty cycle factor = 20log（1/duty cycle）= 21.055






Agilent Spectrum Analyzer - Swept SA
Marker 1 Δ 738.000 µs
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
08:33:32 PM Jan 08, 2016
ΔMkr1 738.0 µs
-3.99 dB
10 dB/div
Log
Ref -10.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
X2
1Δ2
Center 2.404000000 GHz
Res BW 1.0 MHz
#VBW 1.0 MHz
Span 0 Hz
Sweep 2.000 ms (1001 pts)
Marker
Select Marker
1
Normal
Delta
Fixed
Off
Properties
More
1 of 2
MSG
STATUS

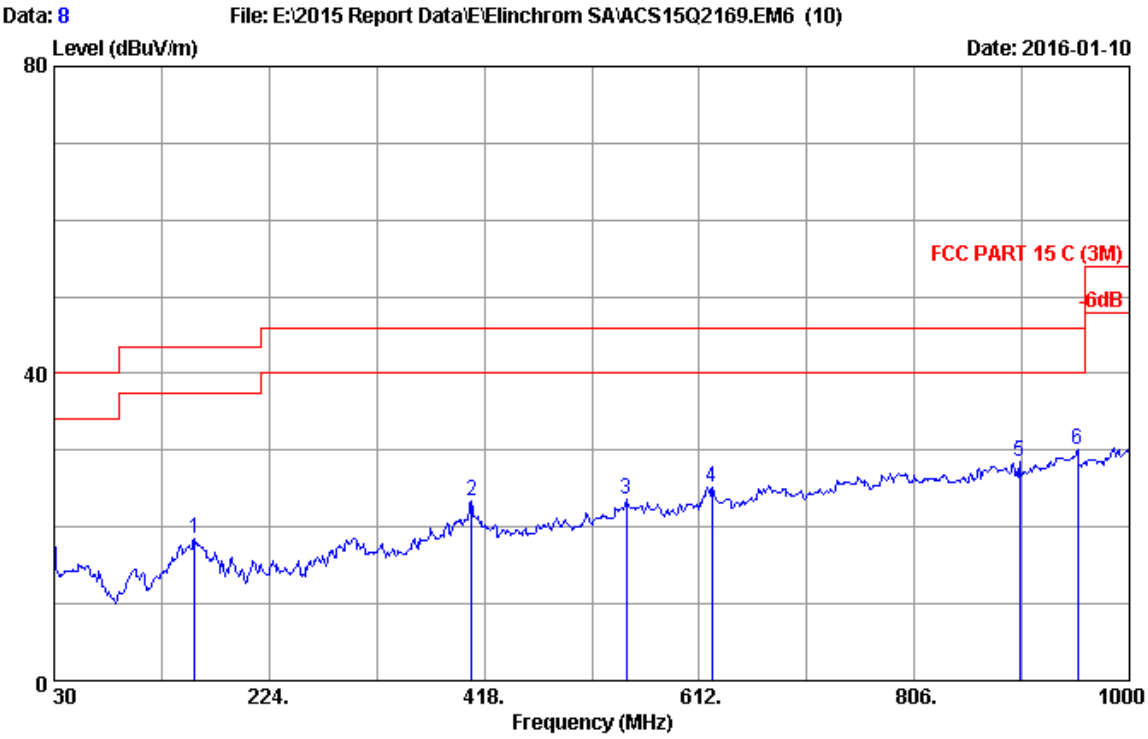
Frequency: 30MHz~1GHz



Site no. : 3m Chamber Data no. : 7
Dis. / Ant. : 3m 2015 CBL6112D 35375 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.1*C/50% Engineer : Leo-Li
EUT : EL-Skyport M/N:ELSP-T
Power rating : DC 3V
Test Mode : Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	175.500	10.12	1.40	9.68	21.20	43.50	22.30	QP
2	194.900	10.35	1.49	11.19	23.03	43.50	20.47	QP
3	202.660	10.77	1.51	10.88	23.16	43.50	20.34	QP
4	640.130	19.90	2.86	1.01	23.77	46.00	22.23	QP
5	701.240	20.10	3.02	2.38	25.50	46.00	20.50	QP
6	883.600	21.75	3.45	2.37	27.57	46.00	18.43	QP

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

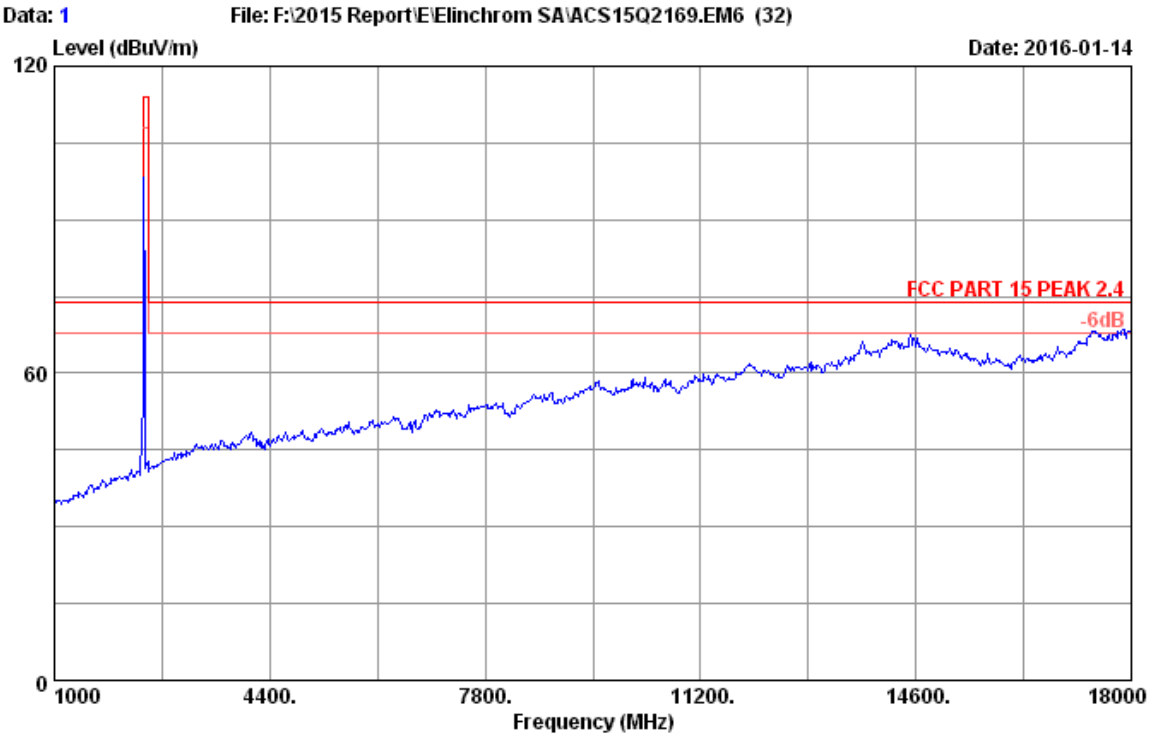


Site no. : 3m Chamber Data no. : 8
Dis. / Ant. : 3m 2015 CBL6112D 35375 Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.1*C/50% Engineer : Leo-Li
EUT : EL-Skyport M/N:ELSP-T
Power rating : DC 3V
Test Mode : Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	157.070	11.45	1.32	5.78	18.55	43.50	24.95	QP
2	406.360	16.95	2.23	4.17	23.35	46.00	22.65	QP
3	546.040	18.75	2.63	2.15	23.53	46.00	22.47	QP
4	623.640	19.74	2.82	2.73	25.29	46.00	20.71	QP
5	901.060	22.01	3.50	3.03	28.54	46.00	17.46	QP
6	953.440	22.44	3.61	3.95	30.00	46.00	16.00	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.   : 1
Dis. / Ant.   : 3m   2015 3115-4877       Ant. pol. : HORIZONTAL
Limit         : FCC PART 15 PEAK 2.4
Env. / Ins.   : 22.5*C/51.6%
Engineer      : Leo-Li
EUT           : EL-Skyport
Power rating  : DC 3V
Test Mode     : 2404MHz Tx
                ELSP-T
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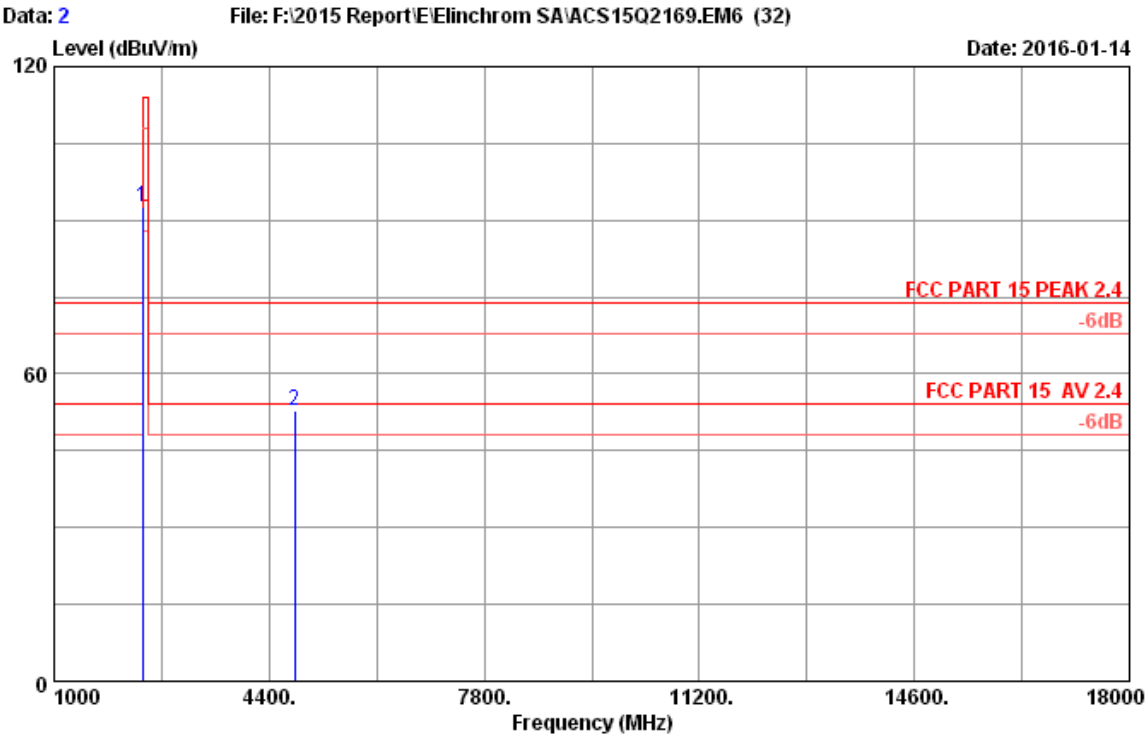
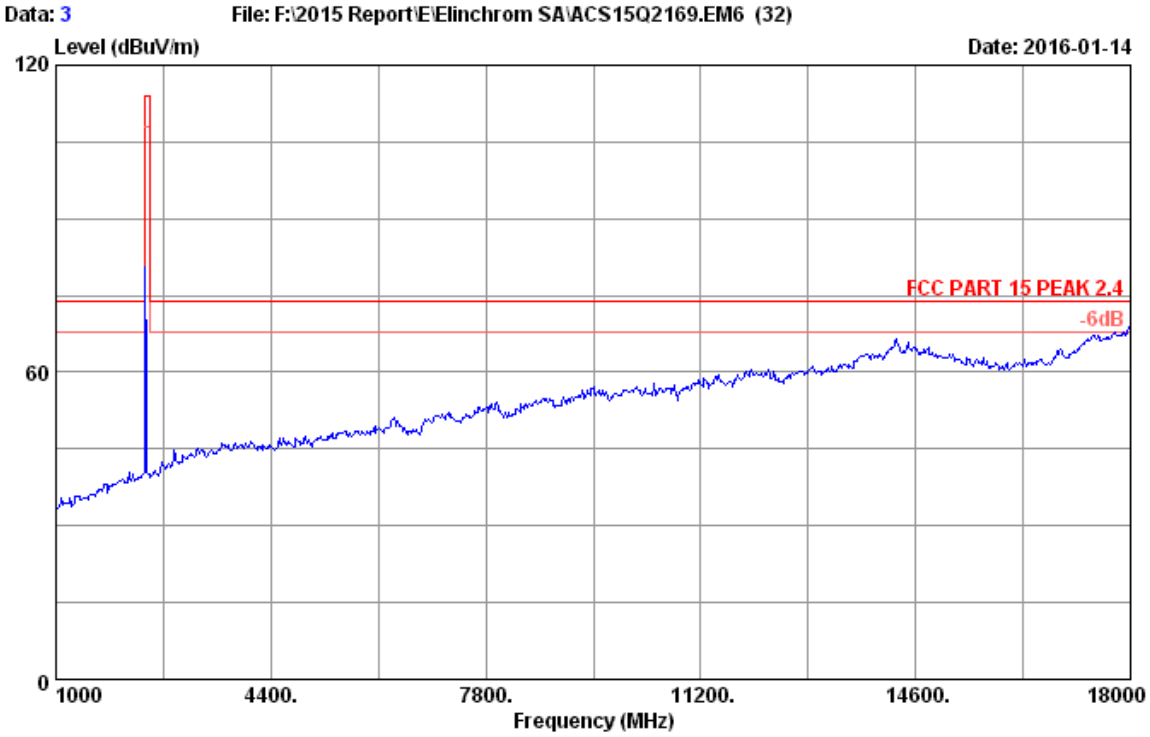


Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 22.5*C/51.6%
Engineer : Leo-Li
EUT : EL-Skyport
Power rating : DC 3V
Test Mode : 2404MHz Tx
ELSP-T

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	2404.000	28.28	7.32	36.62	93.45	92.43	114.00	21.57	Peak
2	4804.000	33.11	9.46	35.54	45.85	52.88	74.00	21.12	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.

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Site no.      : 3m Chamber                    Data no.   : 3
Dis. / Ant.   : 3m   2015 3115-4877       Ant. pol. : VERTICAL
Limit         : FCC PART 15 PEAK 2.4
Env. / Ins.   : 22.5*C/51.6%
Engineer      : Leo-Li
EUT           : EL-Skyport
Power rating  : DC 3V
Test Mode     : 2404MHz Tx
                ELSP-T
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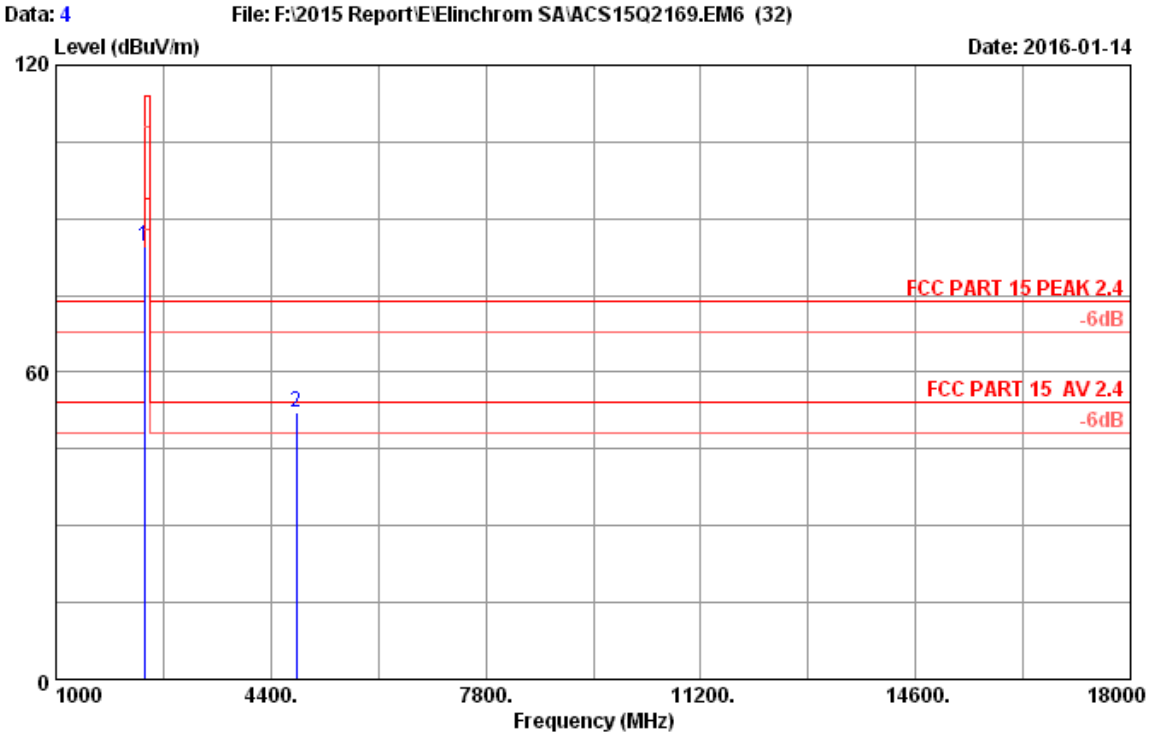
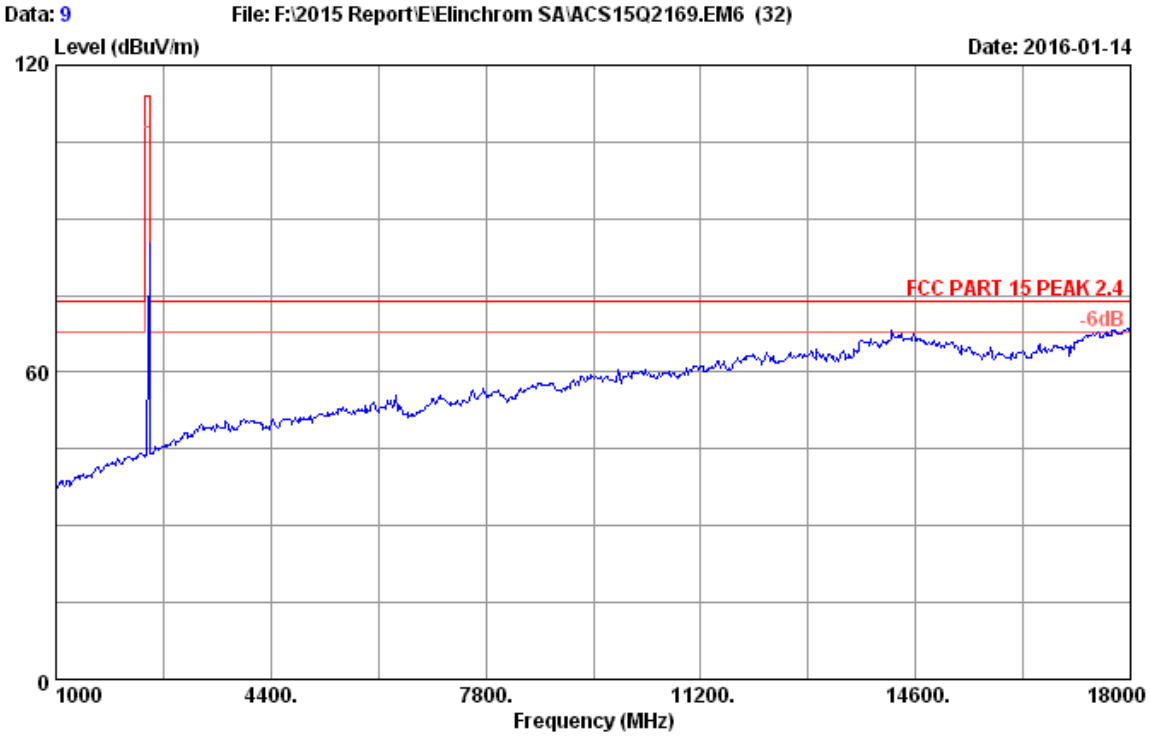


Site no. : 3m Chamber Data no. : 4
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 22.5*C/51.6%
Engineer : Leo-Li
EUT : EL-Skyport
Power rating : DC 3V
Test Mode : 2404MHz Tx
ELSP-T

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	2404.000	28.28	7.32	36.62	85.75	84.73	114.00	29.27	Peak
2	4804.000	33.11	9.46	35.54	44.95	51.98	74.00	22.02	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.

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Site no.      : 3m Chamber                    Data no.   : 9
Dis. / Ant.   : 3m   2015 3115-4877       Ant. pol. : VERTICAL
Limit         : FCC PART 15 PEAK 2.4
Env. / Ins.   : 22.5*C/51.6%
Engineer      : Leo-Li
EUT           : EL-Skyport
Power rating  : DC 3V
Test Mode     : 2478MHz Tx
                ELSP-T
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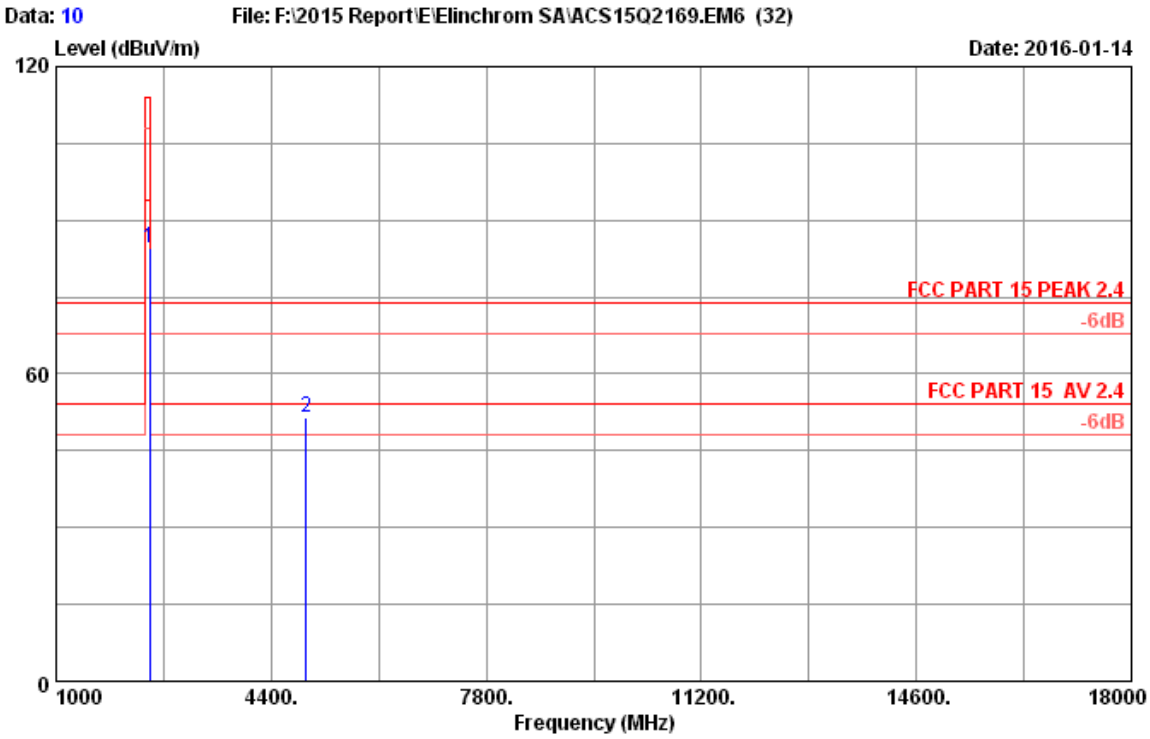
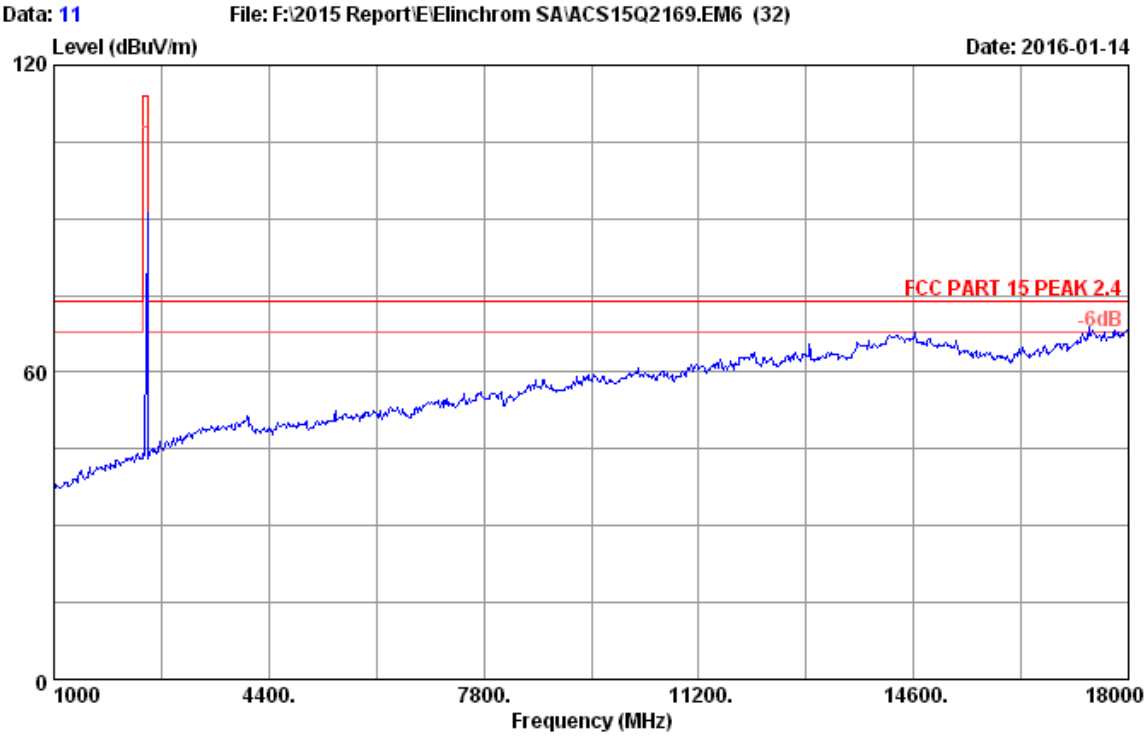


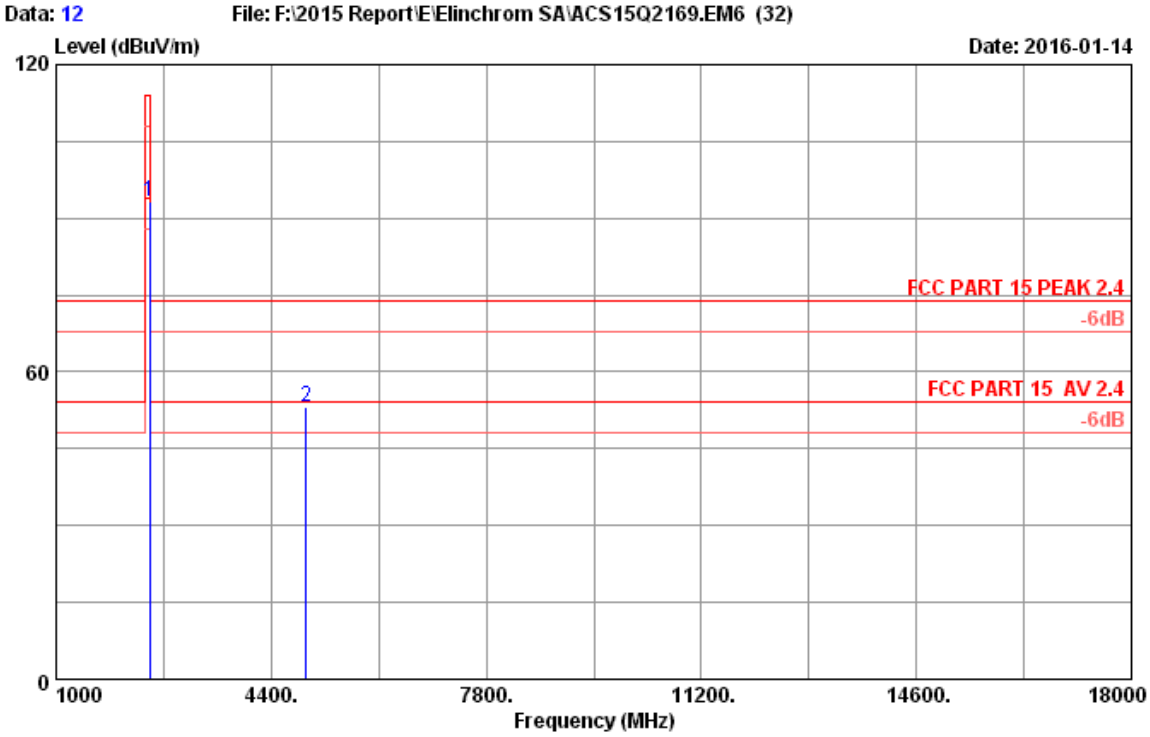
Site no. : 3m Chamber Data no. : 10
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 22.5*C/51.6%
Engineer : Leo-Li
EUT : EL-Skyport
Power rating : DC 3V
Test Mode : 2478MHz Tx
ELSP-T

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	2478.000	28.37	7.47	36.59	85.39	84.64	114.00	29.36	Peak
2	4956.000	33.41	9.52	35.47	44.12	51.58	74.00	22.42	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.



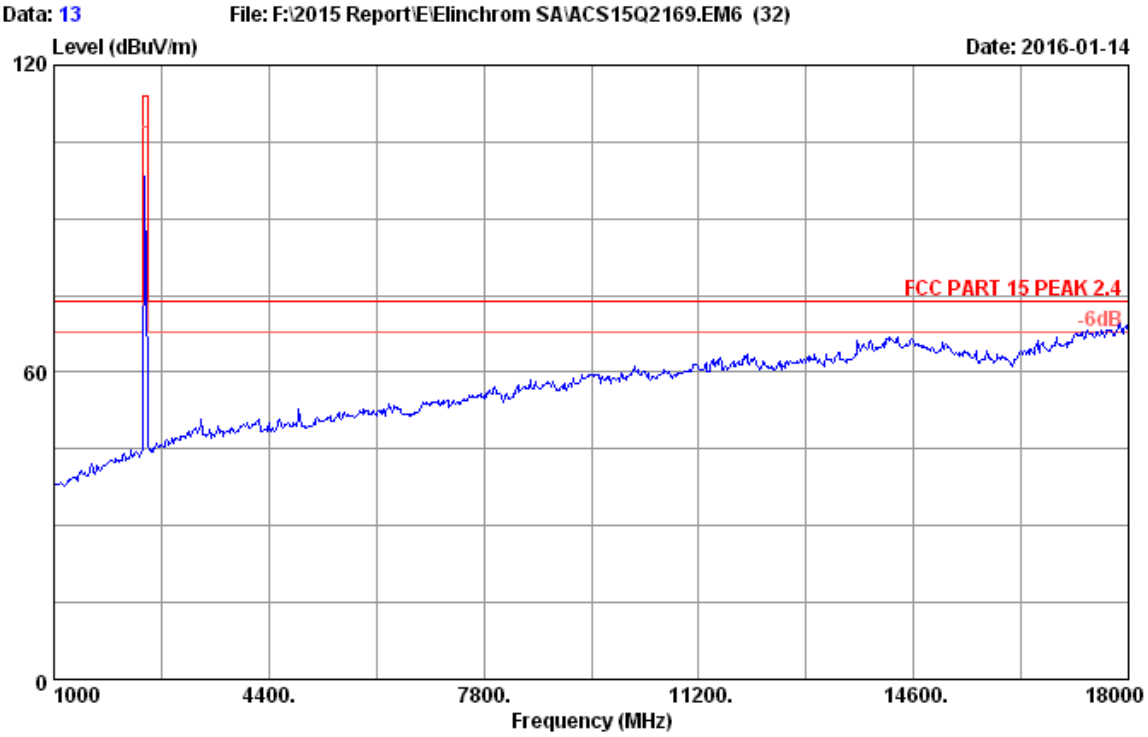

```
Site no.      : 3m Chamber                    Data no.   : 11
Dis. / Ant.   : 3m   2015 3115-4877       Ant. pol. : HORIZONTAL
Limit         : FCC PART 15 PEAK 2.4
Env. / Ins.   : 22.5*C/51.6%
Engineer      : Leo-Li
EUT           : EL-Skyport
Power rating  : DC 3V
Test Mode     : 2478MHz Tx
                ELSP-T
```



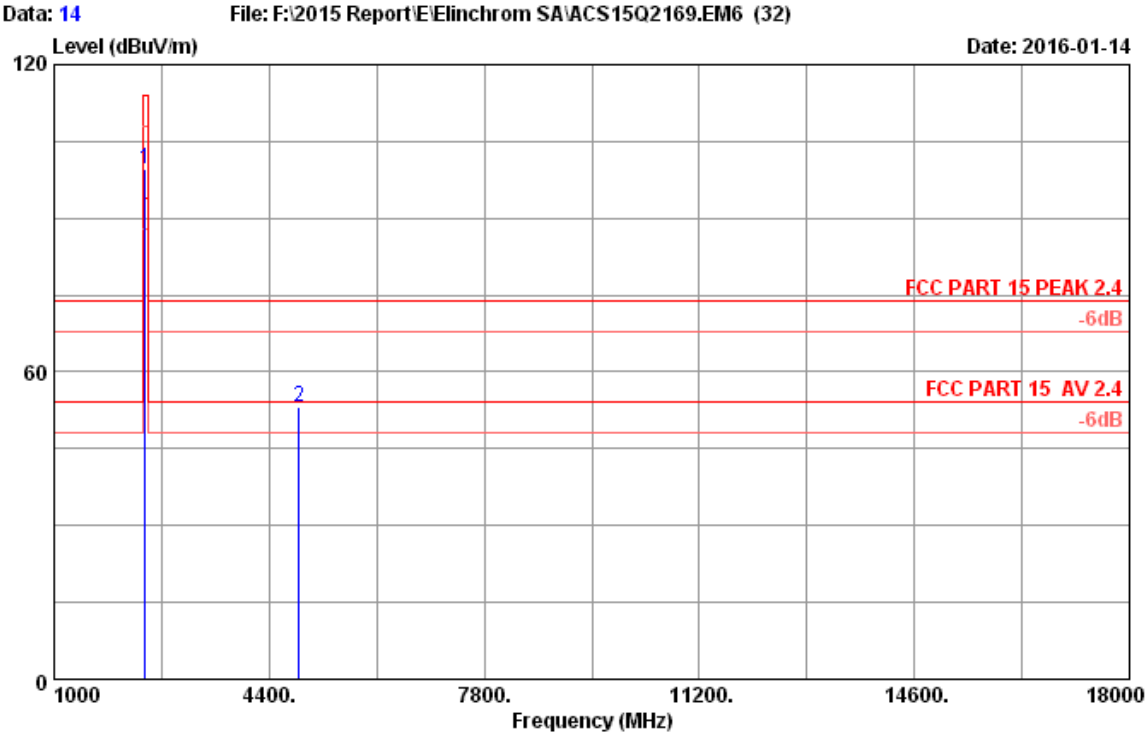
Site no. : 3m Chamber Data no. : 12
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 22.5*C/51.6%
Engineer : Leo-Li
EUT : EL-Skyport
Power rating : DC 3V
Test Mode : 2478MHz Tx
ELSP-T

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	2478.000	28.37	7.47	36.59	93.86	93.11	114.00	20.89	Peak
2	4956.000	33.41	9.52	35.47	45.77	53.23	74.00	20.77	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   2015 3115-4877       Ant. pol. : HORIZONTAL
Limit         : FCC PART 15 PEAK 2.4
Env. / Ins.   : 22.5*C/51.6%
Engineer      : Leo-Li
EUT           : EL-Skyport
Power rating  : DC 3V
Test Mode     : 2439MHz Tx
                ELSP-T
```

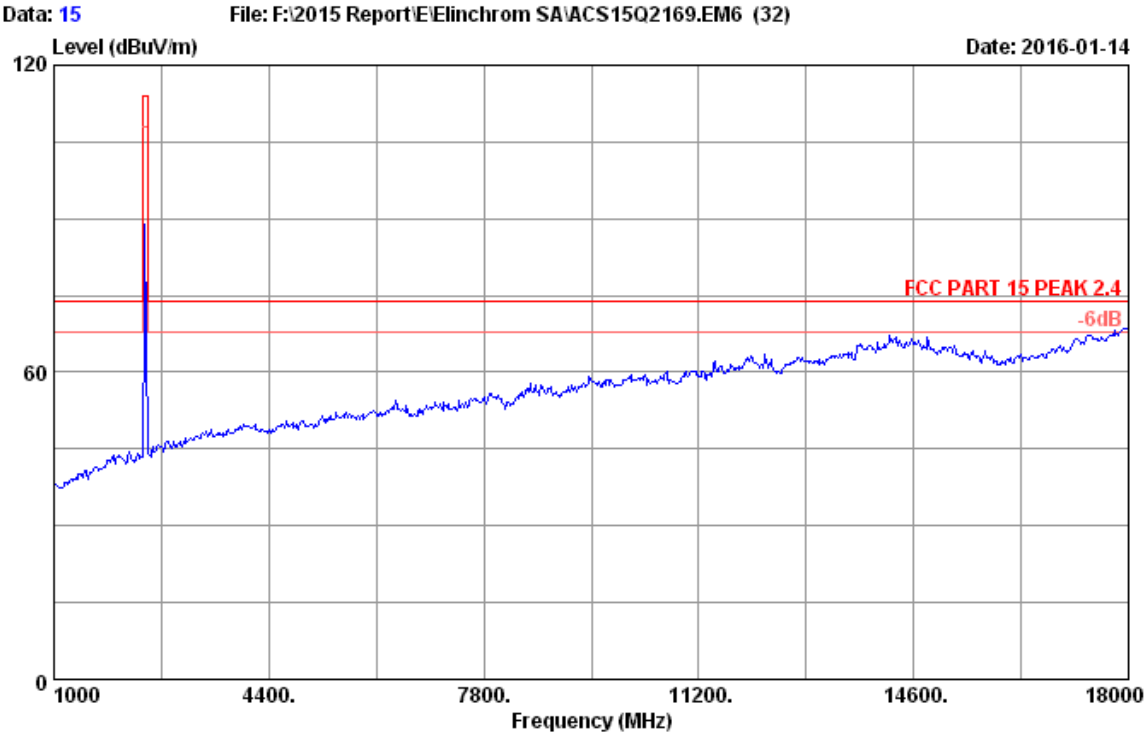


Site no. : 3m Chamber Data no. : 14
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 22.5*C/51.6%
Engineer : Leo-Li
EUT : EL-Skyport
Power rating : DC 3V
Test Mode : 2439MHz Tx
ELSP-T

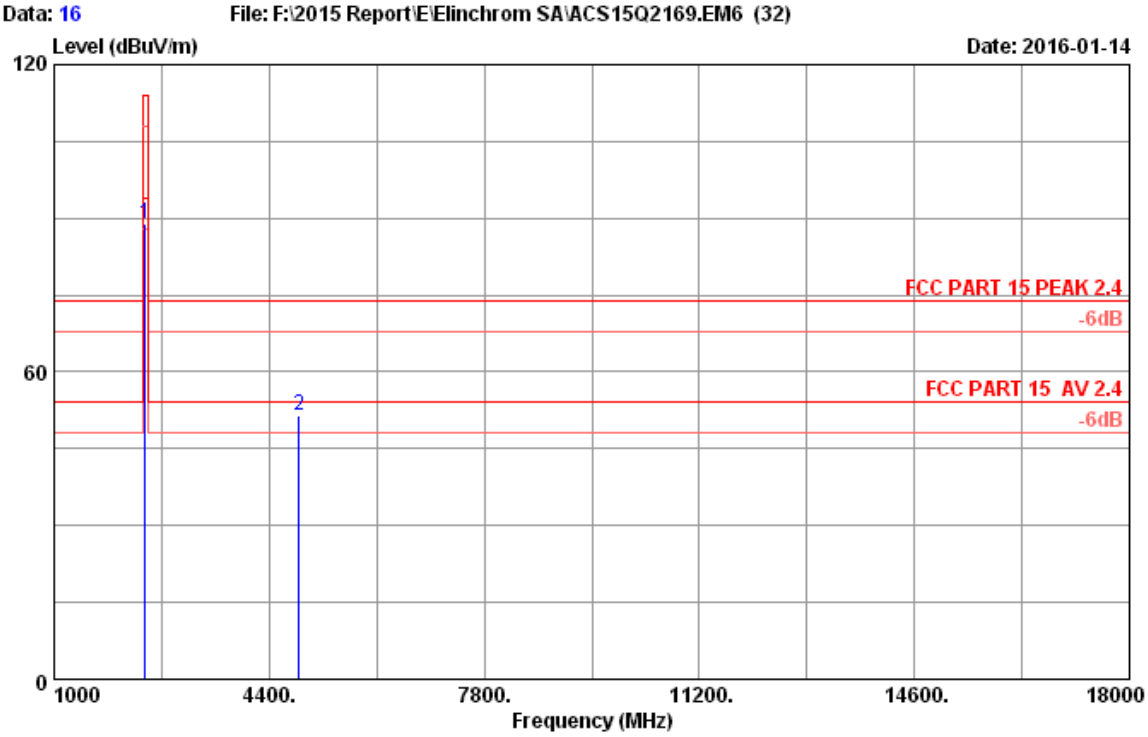
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2439.000	28.33	7.39	36.60	100.45	99.57	114.00	14.43	Peak
2	4878.000	33.26	9.49	35.51	45.89	53.13	74.00	20.87	Peak

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
2439	99.57	21.055	78.515	94	Pass




```
Site no.      : 3m Chamber                    Data no.   : 15
Dis. / Ant.   : 3m   2015 3115-4877       Ant. pol. : VERTICAL
Limit         : FCC PART 15 PEAK 2.4
Env. / Ins.   : 22.5*C/51.6%
Engineer      : Leo-Li
EUT           : EL-Skyport
Power rating  : DC 3V
Test Mode     : 2439MHz Tx
                ELSP-T
```



Site no. : 3m Chamber Data no. : 16
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 22.5*C/51.6%
Engineer : Leo-Li
EUT : EL-Skyport
Power rating : DC 3V
Test Mode : 2439MHz Tx
ELSP-T

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	2439.000	28.33	7.39	36.60	89.76	88.88	114.00	25.12	Peak
2	4878.000	33.26	9.49	35.51	44.36	51.60	74.00	22.40	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.18,15	1Year
2.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr.28,15	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Apr. 28,15	1 Year

5.2. Limit

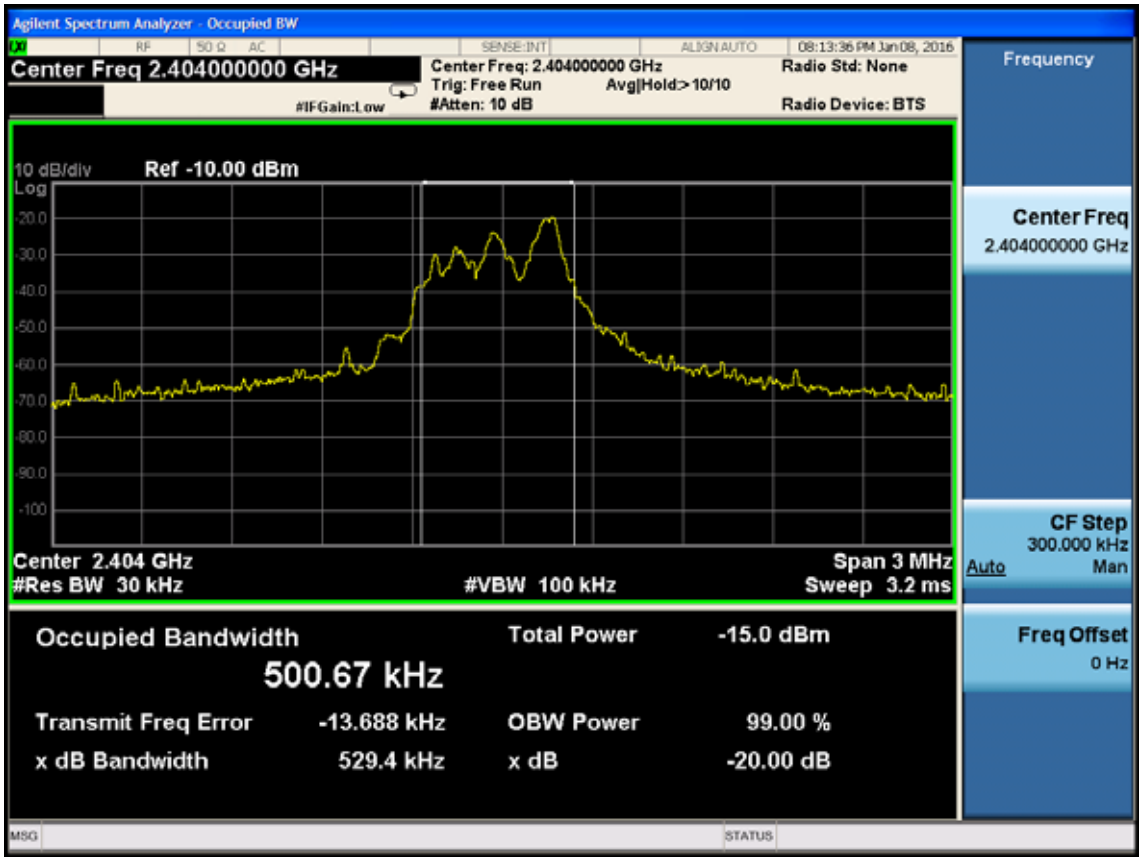
Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific 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

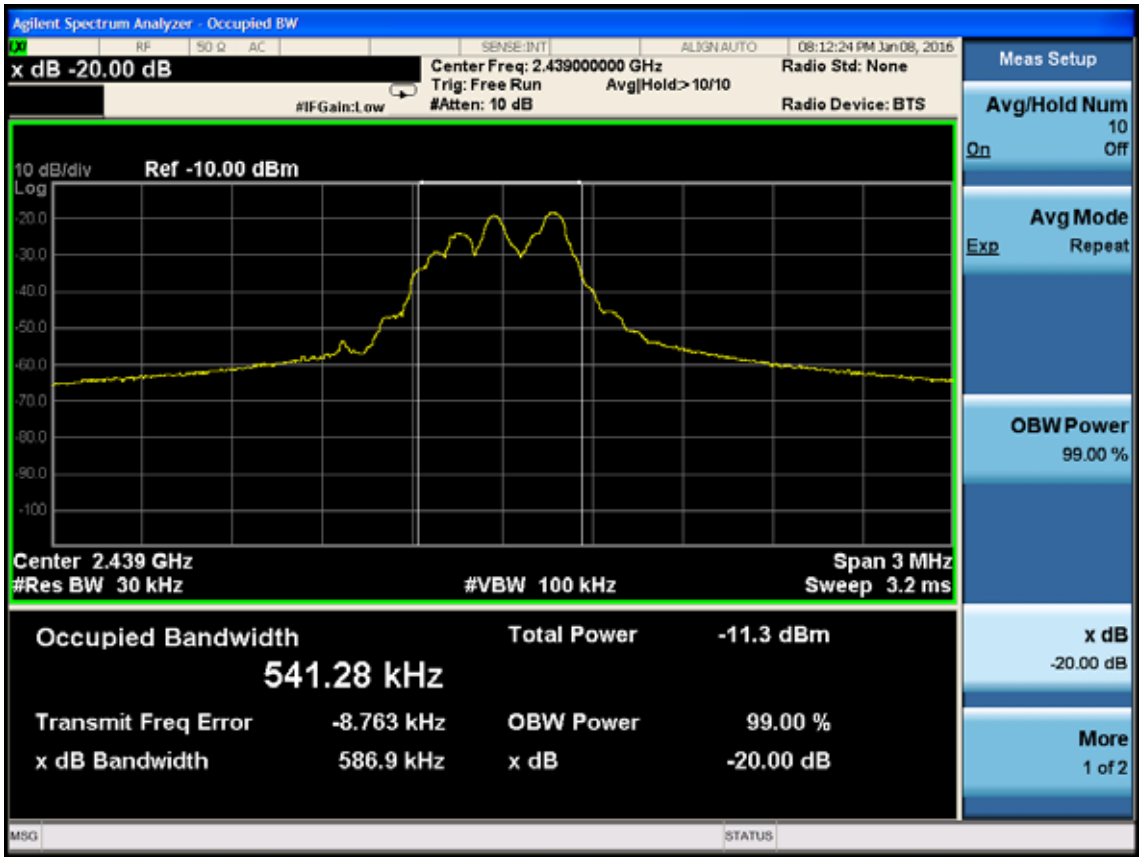
EUT: EL-Skyport		
M/N: ELSP-T		
Test date: 2016-01-08	Pressure: 101.1±1.0 kpa	Humidity: 53.2±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature：22.9±0.6℃

Frequency	20dB Bandwidth (KHz)	Limit (MHz)
2404MHz	529.4	N/A
2439MHz	586.9	N/A
2478MHz	902.8	N/A
Conclusion：PASS		

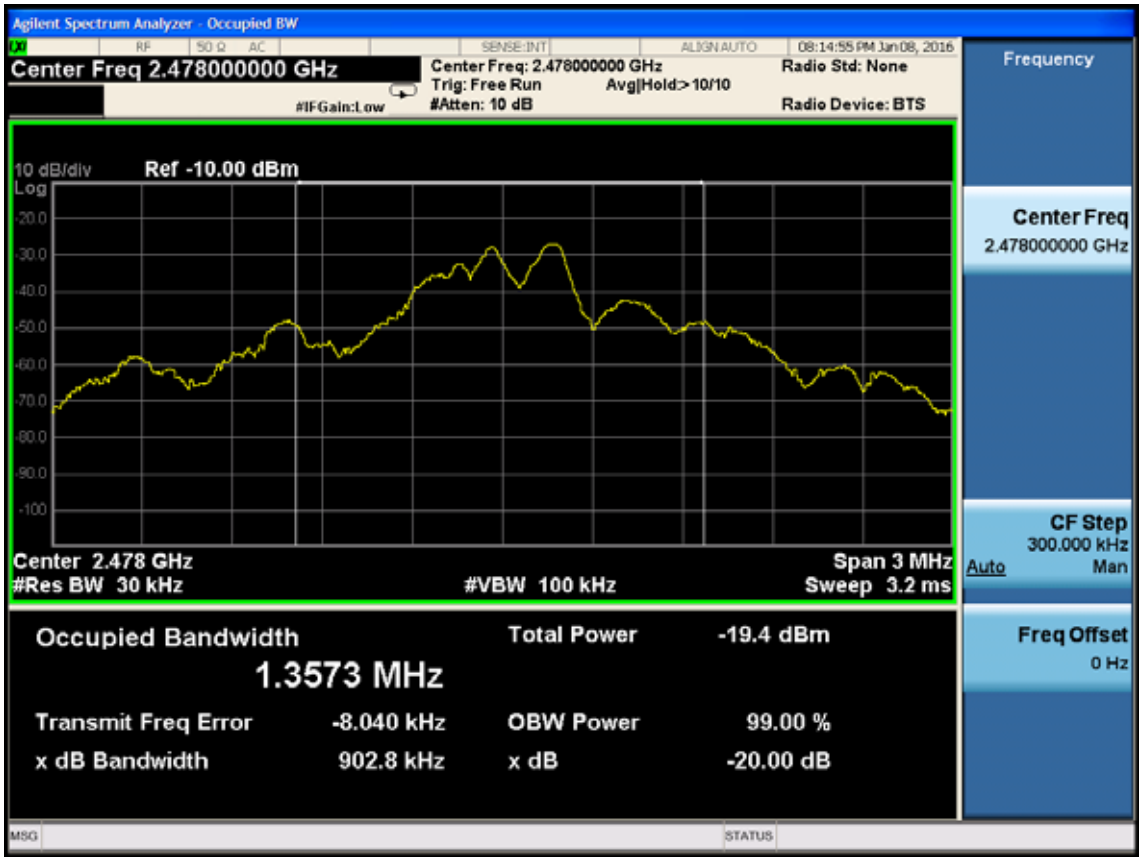
2404MHz



2439MHz



2478MHz


Agilent Spectrum Analyzer - Occupied BW
Center Freq 2.478000000 GHz
Center Freq: 2.478000000 GHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 10 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
08:14:55 PM Jan 08, 2016
Frequency
10 dB/div
Log
Ref -10.00 dBm
Center Freq
2.478000000 GHz
Center 2.478 GHz
#Res BW 30 kHz
#VBW 100 kHz
Span 3 MHz
Sweep 3.2 ms
CF Step
300.000 kHz
Auto
Man
Occupied Bandwidth
1.3573 MHz
Total Power
-19.4 dBm
Freq Offset
0 Hz
Transmit Freq Error
-8.040 kHz
OBW Power
99.00 %
x dB Bandwidth
902.8 kHz
x dB
-20.00 dB
MSG
STATUS

6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	Apr.28,15	1 Year
2.	Amp	HP	8449B	3008A02495	Apr.28,15	1 Year
3.	Horn Antenna	ETC	MCTD 1209	DRH15F03007	Feb.03,15	1 Year
4.	HF Cable	Hubersuhner	Sucoflex104	274094/4	Apr.28,15	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 1.5m 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

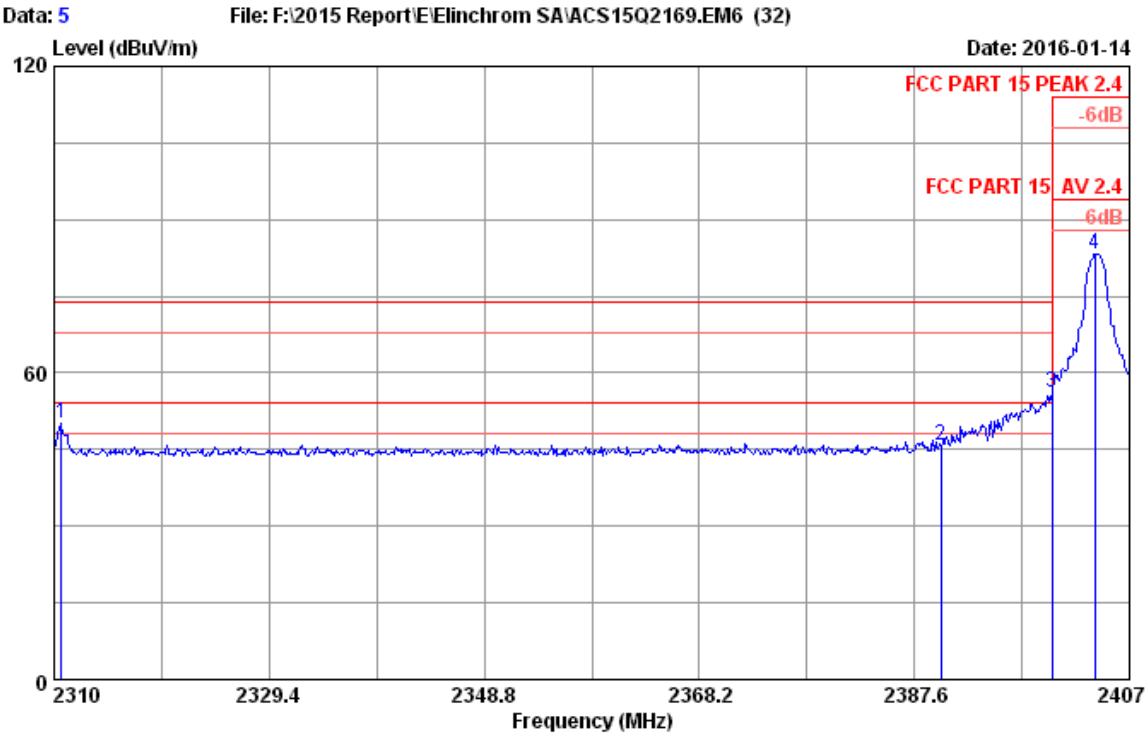
(b)This device is pulse modulated, a duty cycle factor was used to calculate average level based measured peak level

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 28.366 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.

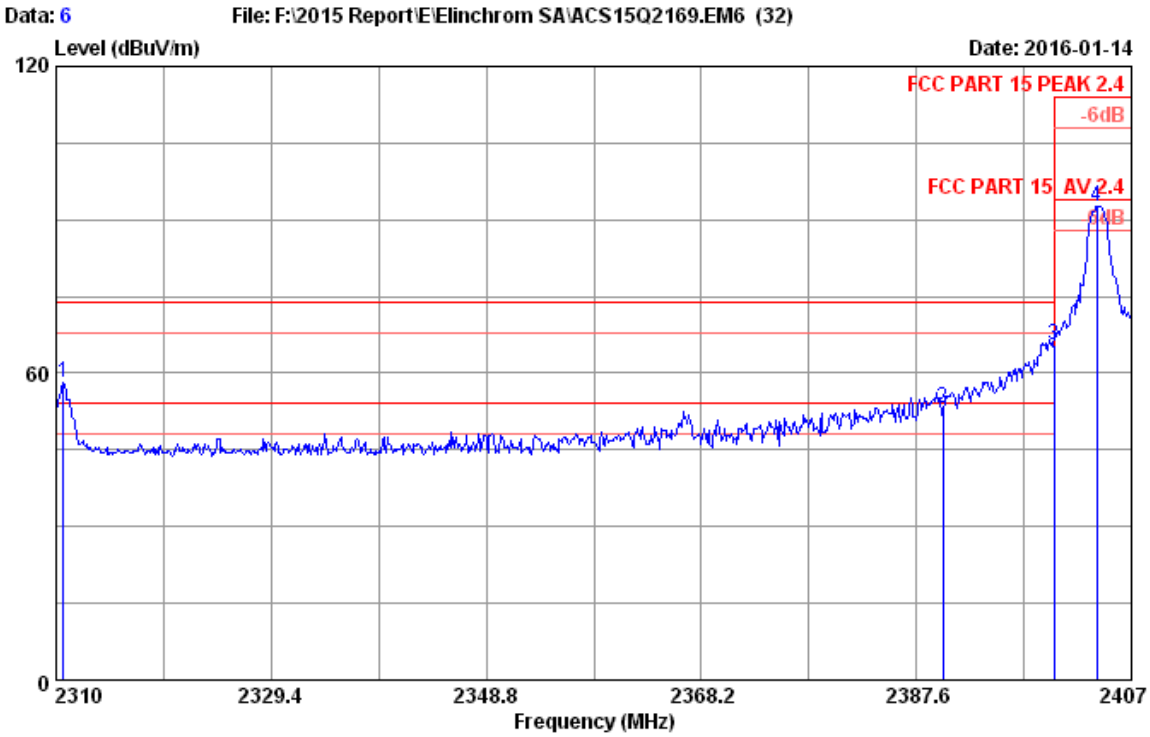


Site no. : 3m Chamber Data no. : 5
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 22.5*C/51.6%
Engineer : Leo-Li
EUT : EL-Skyport
Power rating : DC 3V
Test Mode : 2404MHz Tx
ELSP-T

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	2310.679	28.17	7.12	36.67	51.60	50.22	74.00	23.78	Peak
2	2390.000	28.27	7.28	36.62	46.71	45.64	74.00	28.36	Peak
3	2400.000	28.28	7.32	36.62	57.22	56.20	74.00	17.80	Peak
4	2403.896	28.28	7.32	36.62	84.40	83.38	114.00	30.62	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
2400.000	56.20	21.055	35.145	54	Pass

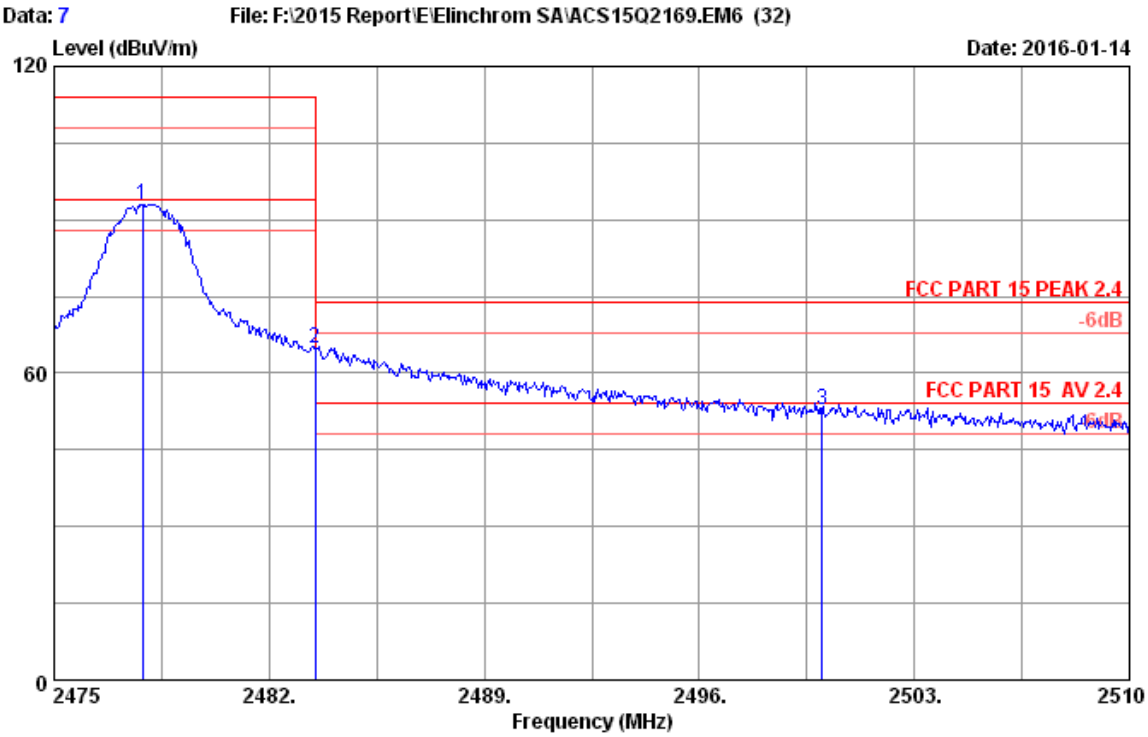


Site no. : 3m Chamber
Data no. : 6
Dis. / Ant. : 3m 2015 3115-4877
Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 22.5*C/51.6%
Engineer : Leo-Li
EUT : EL-Skyport
Power rating : DC 3V
Test Mode : 2404MHz Tx
ELSP-T

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	2310.679	28.17	7.12	36.67	59.48	58.10	74.00	15.90	Peak
2	2390.000	28.27	7.28	36.62	54.17	53.10	74.00	20.90	Peak
3	2400.000	28.28	7.32	36.62	66.63	65.61	74.00	8.39	Peak
4	2403.896	28.28	7.32	36.62	93.70	92.68	114.00	21.32	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
2310.679	58.10	21.055	37.045	54	Pass
2400.000	65.61	21.055	44.555	54	Pass

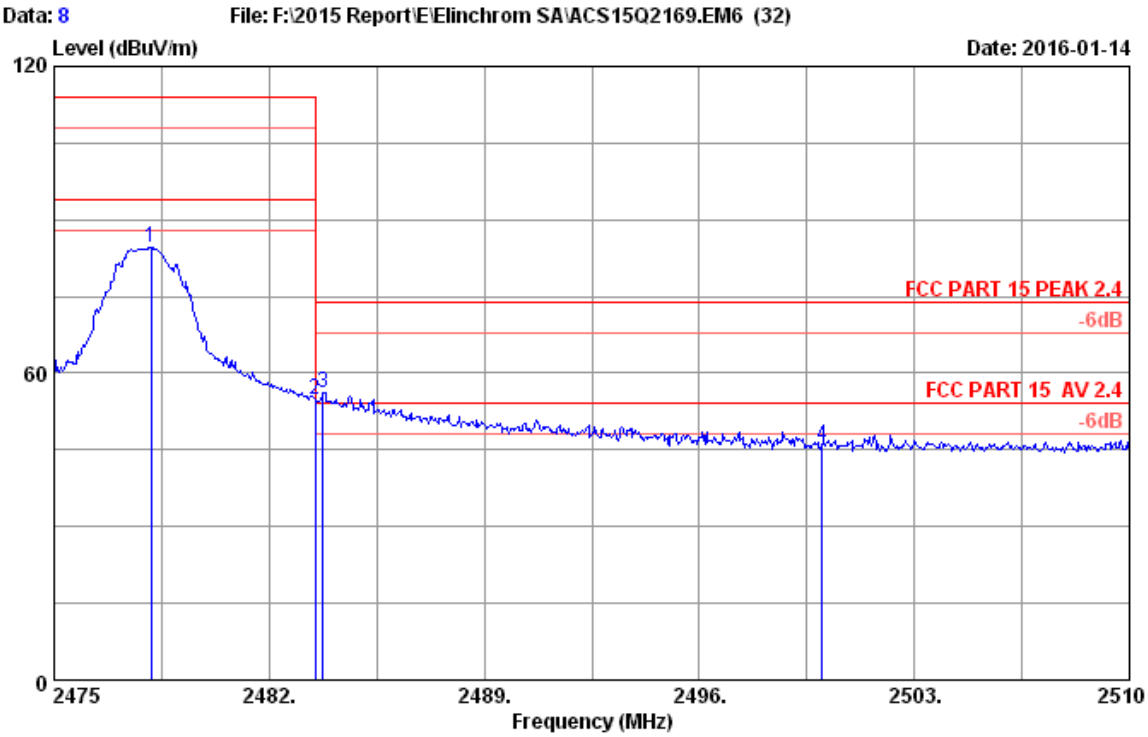


Site no. : 3m Chamber Data no. : 7
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 22.5*C/51.6%
Engineer : Leo-Li
EUT : EL-Skyport
Power rating : DC 3V
Test Mode : 2478MHz Tx
ELSP-T

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	2477.870	28.37	7.47	36.59	93.64	92.89	114.00	21.11	Peak
2	2483.500	28.38	7.51	36.59	65.55	64.85	74.00	9.15	Peak
3	2500.000	28.40	7.51	36.58	53.56	52.89	74.00	21.11	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
2483.500	64.85	21.055	43.795	54	Pass



Site no. : 3m Chamber Data no. : 8
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 22.5*C/51.6%
Engineer : Leo-Li
EUT : EL-Skyport
Power rating : DC 3V
Test Mode : 2478MHz Tx
ELSP-T

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	2478.150	28.37	7.47	36.59	85.25	84.50	114.00	29.50	Peak
2	2483.500	28.38	7.51	36.59	55.61	54.91	74.00	19.09	Peak
3	2483.750	28.38	7.51	36.59	56.89	56.19	74.00	17.81	Peak
4	2500.000	28.40	7.51	36.58	46.54	45.87	74.00	28.13	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
2483.500	54.91	21.055	33.855	54	Pass
2483.750	56.19	21.055	35.135	54	Pass

7. ANTENNA REQUIREMENT

RESULT : PASS

Test Date : Jan.07~14, 2016

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 PCB Antenna, the directional gain of antenna is 3dBi, 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<10mW, i.e.0.009346mW<10mW, 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]