

Shenzhen Toby Technology Co., Ltd.

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FCC Radio Test Report FCC ID: 2ABGP-SYMTX

Report No. : TB-FCC138947

Applicant: Symstar Technology(Shenzhen)Co., Ltd.

Equipment Under Test (EUT)

EUT Name : Smart Remote Control

Model No. : SYM13015

Serial No. : N/A

Brand Name : GAMEPOP

Receipt Date : 2013-11-25

Test Date : 2013-11-26 to 2013-12-06

Issue Date : 2013-12-09

Standards : FCC Part 15, Subpart C

Test Method : ANSI C63.4:2003

Conclusions : PASS

In the configuration tested, the EUT complied with the standards specified above,

The EUT technically complies with the FCC requirements

Test/Witness Engineer : WAN SV

Approved& Authorized : Ray Loù

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0



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1. General Information About EUT

1.1 Client Information

Applicant	:	Symstar Technology(Shenzhen)Co., Ltd.	
Address	:	Room 204, Block C, Tsinghua Unis Inforport, Langshan RD, Hi-Tech Industrial Park(North), Nanshan District, Shenzhen, P.R.China	
Manufacturer	:	Symstar Technology(Shenzhen)Co., Ltd.	
Address	:	Room 204, Block C, Tsinghua Unis Inforport, Langshan RD, Hi-Tech Industrial Park(North), Nanshan District, Shenzhen, P.R.China	

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	Smart Remote Control		
Models No.	:	iM-LM-036		
Model Difference	:	N/A		
		Operation Frequency:2402~2480 MHz		
Droduct	Product escription :	Number of Channels:	79 channels	
Description		Out Power:	97.05 dBuV/m@3m Peak 73.08 dBuV/m@3m Avg	
		Antenna Gain:	0 dBi	
		Modulation Type:	GFSK	
Power Supply	:	DC Voltage supplied by AA	AA battery.	
Power Rating		DC 3.0V (2*AAA battery).		
Connecting I/O Port(S)	:	Please refer to the User's Manual		

Note:

(1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

(2) Channel List:

Channel List				
Low Channel (MHz)	MID Channel (MHz)	HIGH Channel (MHz)		
2402	2441	2480		

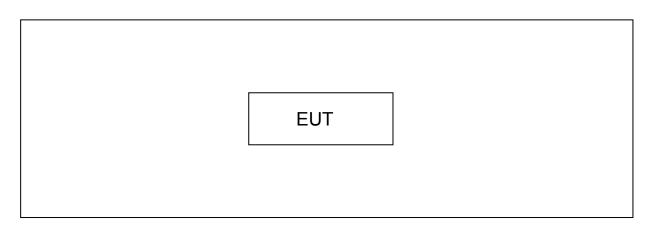




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1.3 Block Diagram Showing the Configuration of System Tested





1.4 Description of Support Units

The EUT has been tested as an independent unit.

Name	Model	S/N	Manufacturer	Used "√"

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test		
Final Test Mode Description		
N/A	N/A	

For Radiated Test			
Final Test Mode Description			
Mode 1	TX Mode		

Note:

For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

(1)According to ANSI C63.4 standards, the measurements are performed at the highest,



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middle, lowest available channels.

(2)During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.

(3) The EUT is considered a portable unit; it was pre-tested on the positioned of each 3 axis, X-plane, Y-plane and Z-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

1.6 Description of Test Software Setting

During testing channel & Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of RF mode.



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1.7 Test Facility

The tests were performed at:

Shenzhen Certification Technology Service Co., Ltd

2F, Building B, East Area of Nanchang Second Industrial Zone, Gushu 2nd Road, Bao'an District, Shenzhen, 518126, China

Tel: 86-755-86375552 Fax: 86-755-26736857

At the time of testing, the Laboratory is accredited. It is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 197647.

The test report was fulfilled by Shenzhen Toby Technology Co., Ltd. Shenzhen Toby Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements results.



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2. Test Summary

FCC Part 15 Subpart C(15.249)					
Standard Section	Remark				
15.203	Antenna Requirement	PASS	N/A		
15.205	Restricted Bands	PASS	N/A		
15.207	AC Power Conducted Emission	N/A	N/A		
15.249 &15.209	Radiated Spurious Emission	PASS	N/A		
15.215(C) 20dB Bandwidth		PASS	N/A		
Note: N/A is an abbreviation for Not Applicable.					



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3. Conducted Emission Test

3.1 Test Standard and Limit

3.1.1Test Standard FCC Part 15.207

3.1.2 Test Limit

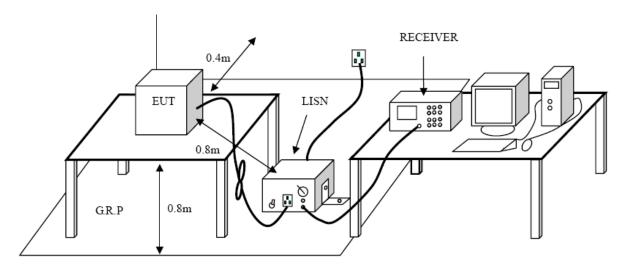
Conducted Emission Test Limit

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

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3.2 Test Setup



3.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.



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I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN is at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

3.4 Test Equipment Used

Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Date
EMI Test	ROHDE&		400224	2013-08-10	2014-08-09
Receiver	SCHWARZ	ESCI	100321	2013-00-10	2014-06-09
50ΩCoaxial	Anritsu	MP59B	X10321	2013-08-10	2014-08-09
Switch	Annisu	MF39B	X10321	2013-08-10	2014-00-09
L.I.S.N	Rohde & Schwarz	ENV216	101131	2013-08-10	2014-08-09
L.I.S.N	SCHWARZBECK	NNBL 8226-2	8226-2/164	2013-08-10	2014-08-09

3.5 EUT Operating Mode

Please refer to the description of test mode.

3.6 Test Data

The EUT is powered by battery, so no requirement for this test item.



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4. Radiated Emission Test

4.1 Test Standard and Limit

4.1.1 Test Standard FCC Part 15.209

4.1.2 Test Limit

Radiated Emission Limit (9kHz~1000MHz)

Radiated Elifission Elifit (SKI12 1999) in 12)								
Frequency (MHz								
0.009~0.490	2400/F(KHz)	300						
0.490~1.705	24000/F(KHz)	30						
1.705~30.0	30	30						
30~88	100	3						
88~216	150	3						
216~960	200	3						
Above 960	500	3						

Radiated Emission Limit (Above 1000MHz)

Frequency	Frequency Class A (dBu\		Class B (dBuV	//m)(at 3 M)
(MHz) Peak		Average	Peak	Average
Above 1000	80	60	74	54

Note:

(1) The tighter limit applies at the band edges.

(2) Emission Level(dBuV/m)=20log Emission Level(Uv/m)

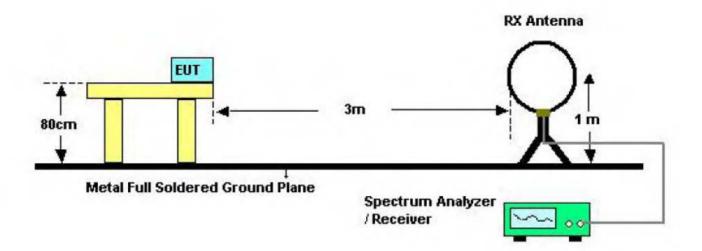
Limits of radiated emission measurement (15.249)

FCC Part 15 (15.249), Subpart C						
Limit Frequency Range (MHz)						
Field strength of fundamental	2400~2483.5					
50000 μV/m (94 dBμV/m) @ 3 m						
Field strength of fundamental	Above 2483.5					
500 μV/m (94 dBμV/m) @ 3 m	Above 2465.5					

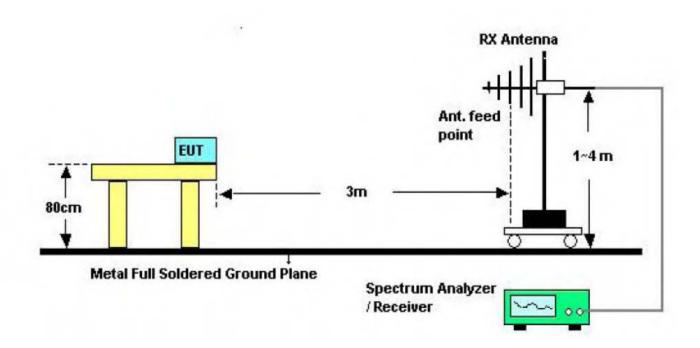


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4.2 Test Setup



Bellow 30MHz Test Setup

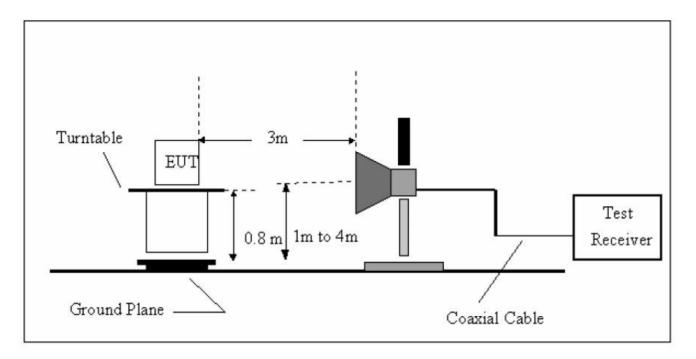


Bellow 1000MHz Test Setup



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Above 1GHz Test Setup

4.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (3) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (4) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (5) For the actual test configuration, please see the test setup photo.

4.4 EUT Operating Condition

The EUT was set to Continual Transmitting in maximum power, and new batteries are used during testing.



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4.5 Test Equipment

Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Date
Spectrum Analyzer	ROHDE& SCHWARZ	FSP30	DE25181	2012-12-31	2013-12-30
Spectrum Analyzer	Agilent	E4407B	MY49510055	2012-12-31	2013-12-30
EMI Test Receiver	ROHDE& SCHWARZ	ESCI	101165	2012-12-31	2013-12-30
Bilog Antenna	SCHWARZBECK	VULB9168	9168-438	2013-02-12	2014-02-11
Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA9120D	2013-02-12	2014-02-11
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170D	2013-02-12	2014-02-11
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2013-02-12	2014-02-11
Pre-amplifier	SCHWARZBECK	BBV9743	9743-019	2013-10-28	2014-10-27
Pre-amplifier	Quietek	AP-180C	CHM-0602012	2013-10-28	2014-10-27

4.6 Test Data

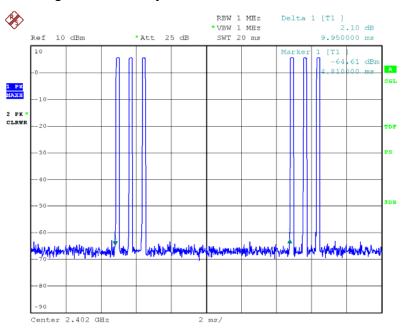
Please see the next page.



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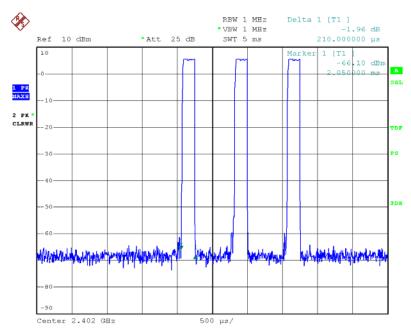
4.6.1 Duty Cycle

(1) During transmitting mode, one cycle time T1=9.95ms



Date: 7.DEC.2013 10:16:27

(2)One pulse time T2= 0.21ms



Date: 7.DEC.2013 10:14:36



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(3) Duty Cycle= T2*3/T1*100%= 6.33%

(4)Avg=Peak+20log(Duty Cycle)=Peak-23.97



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4.6.2 Field Strength of the Fundamental

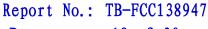
E.U.T:	Smart Remote Control	Model Name :	SYM13015
Temperature :	23°C	Relative Humidity:	55%
Test Voltage :	DC 3.0 V		
Test Mode:	TX Mode		

Freq. (MHz)	Ant. Pol.	Emission Level (dBuV/m)		Limit3m (dBuV/m)		Margin(dB)	
	H/V	PK	AV	PK	AV	PK	AV
2402.060	V	93.26	69.29	114.00	94.00	20.74	24.71
2438.930	V	93.71	69.74	114.00	94.00	20.29	24.26
2478.950	V	93.82	69.85	114.00	94.00	20.18	24.15
	V		1	114.00	94.00		
	V		1	114.00	94.00		
2402.060	Н	96.11	72.14	114.00	94.00	17.89	21.86
2438.930	Н	96.53	72.56	114.00	94.00	17.47	21.44
2478.950	Н	97.05	73.08	114.00	94.00	16.95	20.92
	Н			114.00	94.00		
	Н			114.00	94.00		

Note:

(2) Average=Peak-23.97

⁽¹⁾ Peak measuring use spectrum setting: RBW/VBW 3 MHz/3 MHz

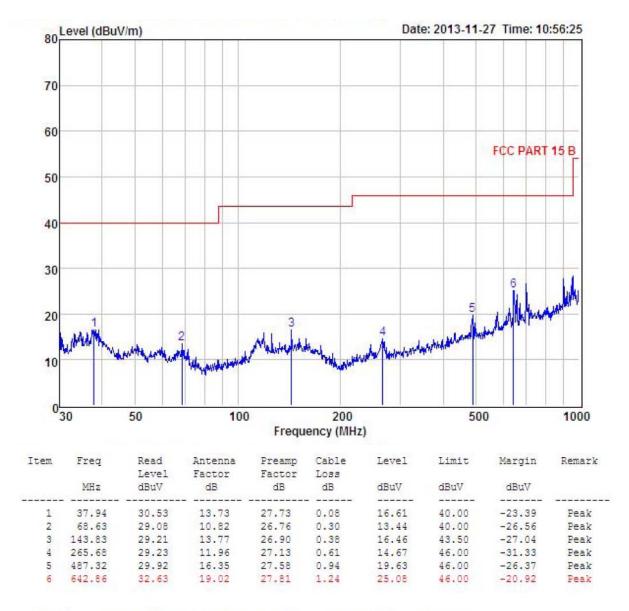




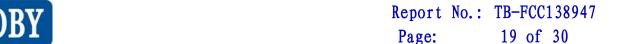
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4.6.3 Radiated Spurious Emission (Below 1 GHz)

E.U.T:	Smart Remote Control	Model Name :	SYM13015
Temperature :	23°C	Relative Humidity:	55%
Polarization	Horizontal		
Test Voltage :	DC 3.0 V		
Test Mode :	TX 2480 Mode		



Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



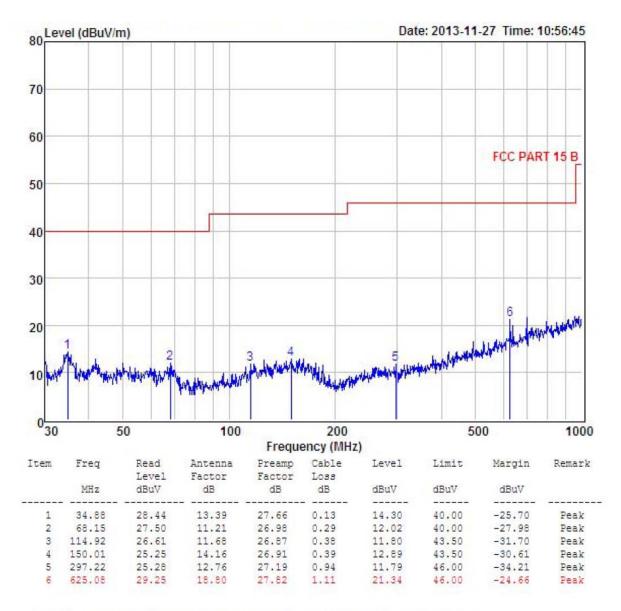
E.U.T: Smart Remote Control Model Name: SYM13015

Temperature: 23°C Relative Humidity: 55%

Polarization Vertical

Test Voltage: DC 3.0 V

Test Mode: TX 2480 Mode



Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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4.6.4 Radiated Spurious Emission (Above 1 GHz)

E.U.T:	Smart Remote Control	Model Name :	SYM13015
Temperature :	23°C	Relative Humidity:	55%
Test Voltage :	DC 3.0 V		
Test Mode :	TX 2402 MHz		

Freq. (MHz)	Ant. Pol.		ion Level uV/m)	Limi (dBu		Marg	in(dB)
	H/V	PK	AV	PK	AV	PK	AV
4804.110	V	49.68	25.71	74.00	54.00	24.32	28.29
	V			74.00	54.00	1	
	V			74.00	54.00	1	
	V			74.00	54.00	-	
	V			74.00	54.00	-	
4804.110	Н	52.75	28.78	74.00	54.00	21.25	25.22
	Н			74.00	54.00		
	Н			74.00	54.00		
	Н			74.00	54.00	-	
	Н			74.00	54.00		

Note:

- (1) Peak measuring use spectrum setting: RBW/VBW 1 MHz/1 MHz
- (2) Average=Peak-23.97
- (3) The emission levels of other frequencies are very lower than the limit and not show in the test report.



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E.U.T:	Smart Remote Control	Model Name :	SYM13015
Temperature :	23°C	Relative Humidity:	55%
Test Voltage :	DC 3.0 V		
Test Mode:	TX 2441 MHz		

Freq. (MHz)	Ant. Pol.	Emission Level (dBuV/m)		Limit3m (dBuV/m)		Margin(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4882.090	V	50.26	26.29	74.00	54.00	23.74	27.71
	V			74.00	54.00		
	V			74.00	54.00		
	V			74.00	54.00		
	V			74.00	54.00		
4882.090	Н	53.11	29.14	74.00	54.00	20.89	24.86
	Н			74.00	54.00		
	Н			74.00	54.00		
	Н			74.00	54.00		
	Н			74.00	54.00		

Note:

- (1) Peak measuring use spectrum setting: RBW/VBW 1 MHz/1 MHz
- (2) Average=Peak-23.97
- (3) The emission levels of other frequencies are very lower than the limit and not show in the test report.



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E.U.T:	Smart Remote Control	Model Name :	SYM13015
Temperature :	23°C	Relative Humidity:	55%
Test Voltage :	DC 3.0 V		
Test Mode:	TX 2480 MHz		

Freq. (MHz)	Ant. Pol.	Emission Level (dBuV/m)		Limit3m (dBuV/m)		Margin(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4960.090	V	50.61	26.64	74.00	54.00	23.39	27.36
	V			74.00	54.00		
	V			74.00	54.00		
	V			74.00	54.00		
	V			74.00	54.00		
4960.090	Н	53.61	29.64	74.00	54.00	20.39	24.36
	Н			74.00	54.00		
	Н			74.00	54.00		
	Н			74.00	54.00		
	Н			74.00	54.00		

Note:

- (1) Peak measuring use spectrum setting: RBW/VBW 1 MHz/1 MHz
- (2) Average=Peak-23.97
- (3) The emission levels of other frequencies are very lower than the limit and not show in the test report.



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5. Restricted Bands Requirement

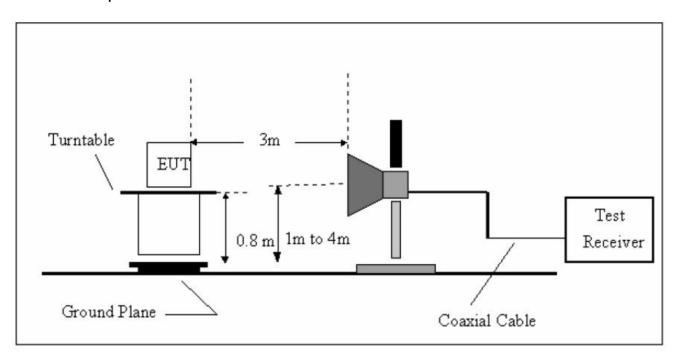
5.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.209 FCC Part 15.205

5.1.2 Test Limit

Restricted Frequency Band (MHz)	Class B (dBuV/m)(at 3 M)		
2310~2390	Attenuated by at least 50 dB below the level of the fundamental or to the general radiated		
2483.5~2500	emission limits in 15.209, whichever is the lesser attenuation		

5.2 Test Setup



5.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (3) The initial step in collecting conducted emission data is a spectrum analyzer peak detector



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mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

- (4) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (5) For the actual test configuration, please see the test setup photo.

5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

5.5 Test Equipment

Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Date
Spectrum Analyzer	ROHDE& SCHWARZ	FSP30	DE25181	2012-12-31	2013-12-30
Spectrum Analyzer	Agilent	E4407B	MY49510055	2012-12-31	2013-12-30
EMI Test Receiver	ROHDE& SCHWARZ	ESCI	101165	2012-12-31	2013-12-30
Bilog Antenna	SCHWARZBECK	VULB9168	9168-438	2013-02-12	2014-02-11
Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA9120D	2013-02-12	2014-02-11
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170D	2013-02-12	2014-02-11
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2013-02-12	2014-02-11
Pre-amplifier	SCHWARZBECK	BBV9743	9743-019	2013-10-28	2014-10-27
Pre-amplifier	Quietek	AP-180C	CHM-0602012	2013-10-28	2014-10-27



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5.6 Test Data

Band Edge (Radiated Emissions)

Spectrum Detector: PK & AVG Test Date: November 27, 2013

Temperature : 28 $^{\circ}$ C Humidity : 55 $^{\circ}$

TX 2402 MHz						
Frequency MHz)	Antenna polarization	Emission (dBuV/m)			dge Limit uV/m)	
	(H/V)	PEAK	AV	PEAK	AV	
2390.0	Н	51.35	27.38	74.00	54.00	
2390.0	V	50.03	26.06	74.00	54.00	

TX 2480 MHz						
Frequency MHz)	Antenna polarization	Emission (dBuV/m)		Band edge Limit (dBuV/m)		
	(H/V)	PEAK	AV	PEAK	AV	
2483.5	Н	54.51	30.54	74.00	54.00	
2483.5	V	52.08	28.11	74.00	54.00	

Note:

(1) Peak measuring use spectrum setting: RBW/VBW 1 MHz/1 MHz

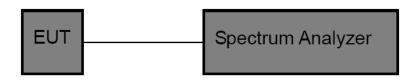
(2) Average=Peak-23.73



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6. Bandwidth Test

6.1 Test Setup



6.2 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting:

Bandwidth: RBW=100 kHz, VBW=300kHz.

(3) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.

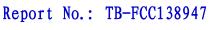
6.3 EUT Operating Condition

The EUT was set to continuously transmitting for the Bandwidth Test.

6.4 Test Equipment

Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Date
Spectrum	ROHDE&		DE05404	2012-12-31	2013-12-30
Analyzer	SCHWARZ	FSP30	DE25181	2012-12-31	2013-12-30

6.5 Test Data

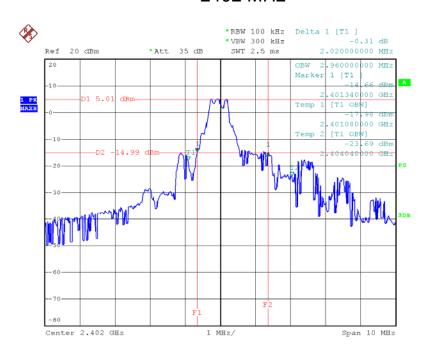




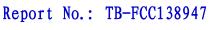
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Low Channel Frequency (MHz)	20dB Bandwidth (MHz)
2402	2.020

2402 MHz



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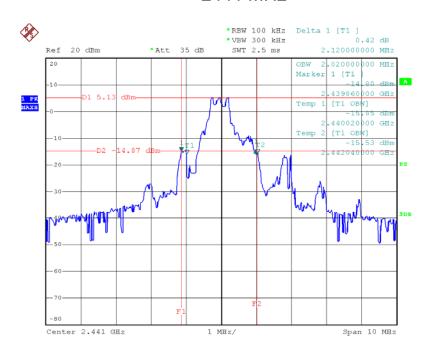




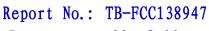
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MID Channel Frequency (MHz)	20dB Bandwidth (MHz)
2441	2.120

2441 MHz



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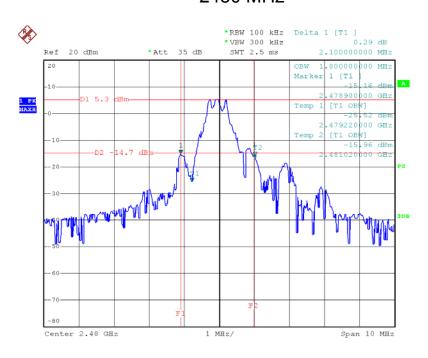




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HIGH Channel Frequency (MHz)	20dB Bandwidth (MHz)		
2480	2.100		

2480 MHz



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7. Antenna Requirement

7.1 Standard Requirement

7.1.1 Standard

FCC Part 15.203

7.1.2 Requirement

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

7.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 0 dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

7.3 Result

The EUT antenna is a Printed Antenna. It complies with the standard requirement.