FCC Radio Test Report

FCC ID: UUD-IMTC01TX

Report No.	:	TB-FCC138912
Applicant	:	i-Money Technology Co., Ltd.
Equipment Under Test (EUT)		
EUT Name	:	2.4GHz Wireless Waterproof Mouse
Model No.	:	iM-LM-036
Serial No.	:	N/A
Brand Name	:	N/A
Receipt Date	:	2013-11-20
Test Date	:	2013-11-21 to 2013-12-05
Issue Date	:	2013-12-06
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 Su

Approved& Authorized : Ray Lai

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.

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Contents

1. General Information About EUT

1.1 Client Information

Applicant	:	i-Money Technology Co., Ltd.
Address	:	5C07-5C08 No.5, Sec. 5, Xinyi Rd., Taipei City 110, Taiwan (R.O.C.)
Manufacturer	:	i-Money Technology Co., Ltd.
Address	:	5C07-5C08 No.5, Sec. 5, Xinyi Rd., Taipei City 110, Taiwan (R.O.C.)

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	2.4GHz Wireless Waterproof Mouse	
Models No.	:	iM-LM-036	
Model Difference	:	N/A	
Product Description	:	Operation Frequency:2402~2479 MHz	
		Number of Channels:	78 channels
		Out Power:	94.36 dBuV/m@3m Peak 70.63 dBuV/m@3m Avg
		Antenna Gain:	0 dBi
		Modulation Type:	GFSK
Power Supply	:	DC Voltage supplied by AA battery.	
Power Rating	:	DC 3.0V (2*AA 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.

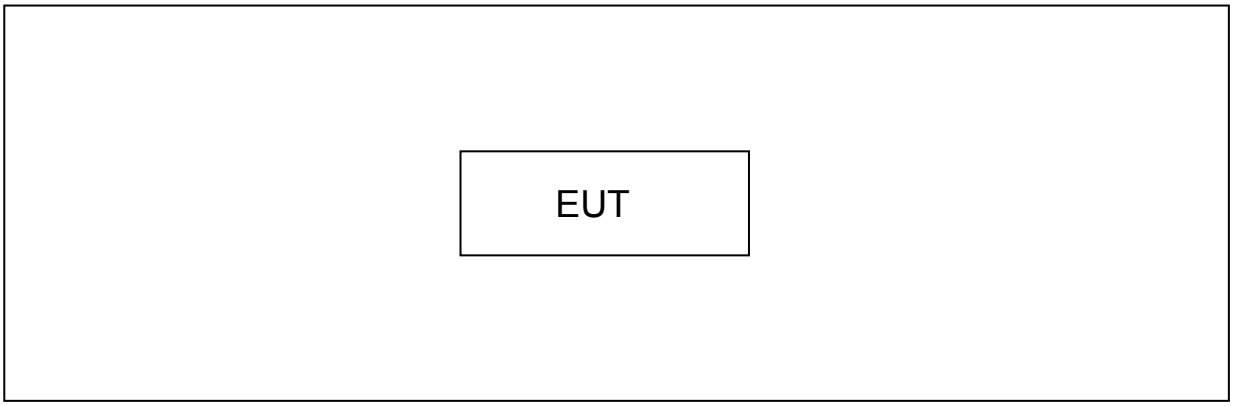
(2) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463

08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453		
25	2427	52	2454		
26	2428	53	2455		

1.3 Block Diagram Showing the Configuration of System Tested

Mode 1: TX Mode



1.4 Description of Support Units

The EUT has been tested as an independent unit.

Name	Model	S/N	Manufacturer	Used "√"
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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, 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.

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.

2. Test Summary

FCC Part 15 Subpart C(15.249)			
Standard Section	**Test Item**	**Judgment**	**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.			

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

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

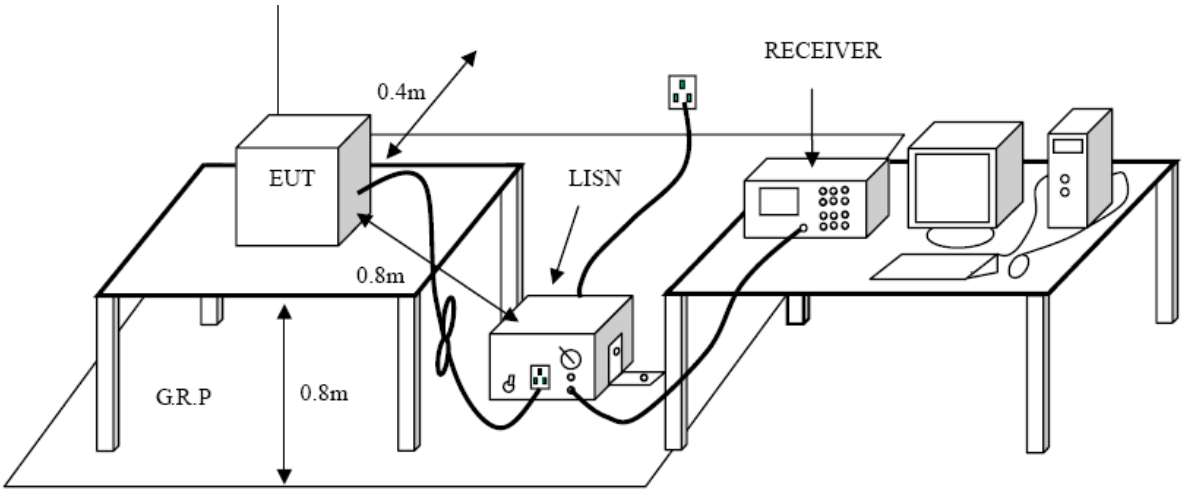
Notes:

(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.

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 Receiver	ROHDE& SCHWARZ	ESCI	100321	2013-08-10	2014-08-09
50ΩCoaxial Switch	Anritsu	MP59B	X10321	2013-08-10	2014-08-09
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.

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)

Frequency (MHz	Field Strength (microvolt/meter)	Measurement Distance (meters)
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 (MHz)	Class A (dBuV/m)(at 3 M)		Class B (dBuV/m)(at 3 M)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

Note:

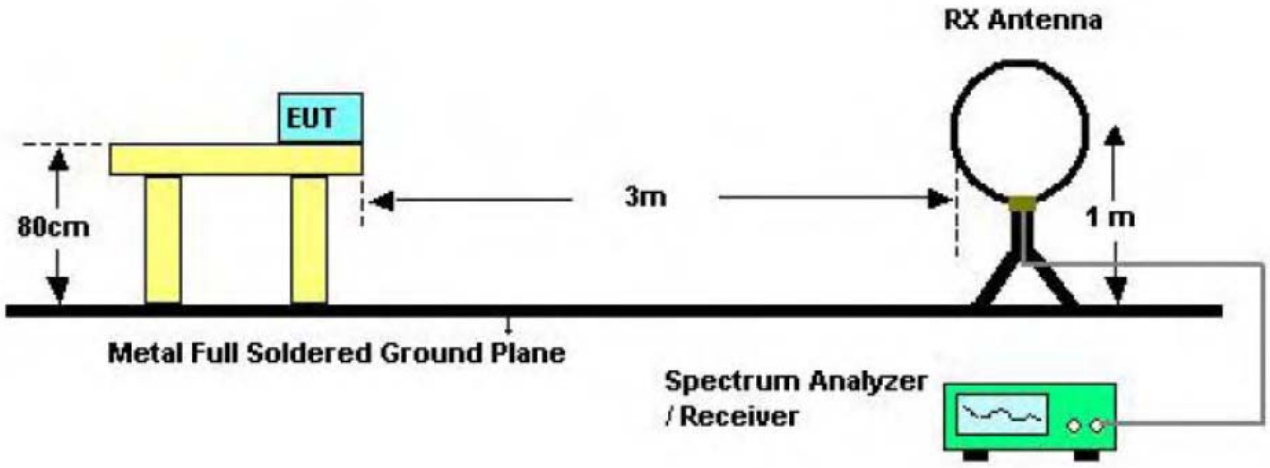
(1) The tighter limit applies at the band edges.

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

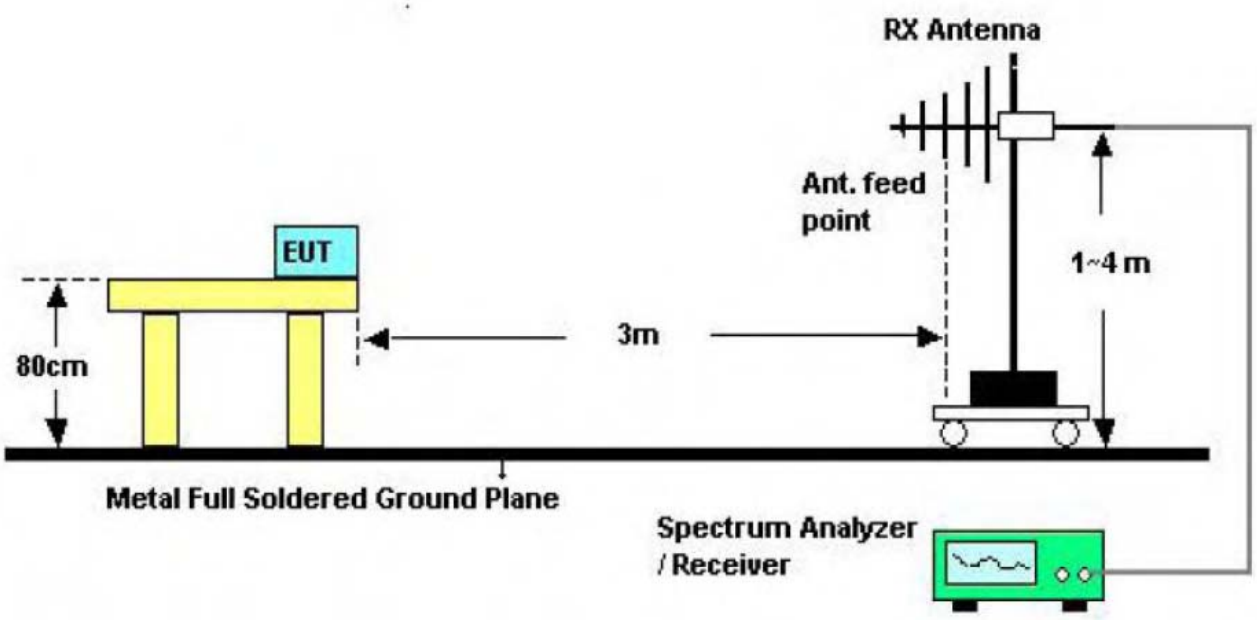
Limits of radiated emission measurement (15.249)

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

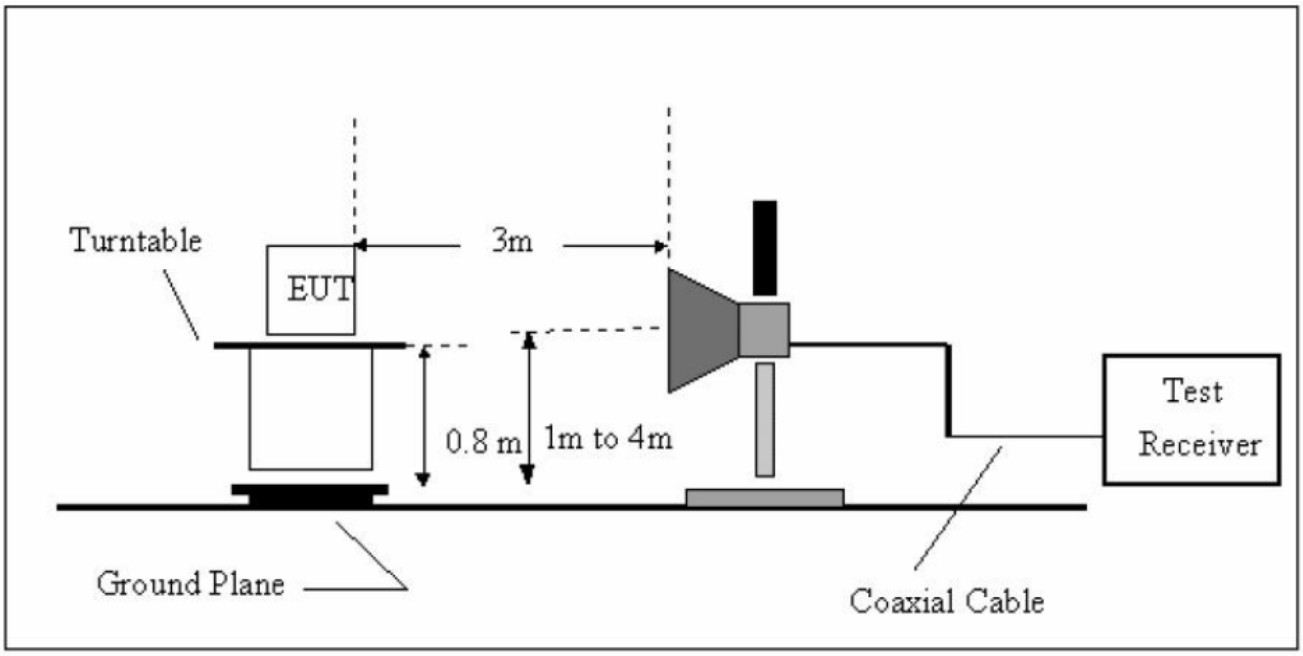
4.2 Test Setup



Bellow 30MHz Test Setup



Bellow 1000MHz Test Setup



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.

4.5 Test Equipment

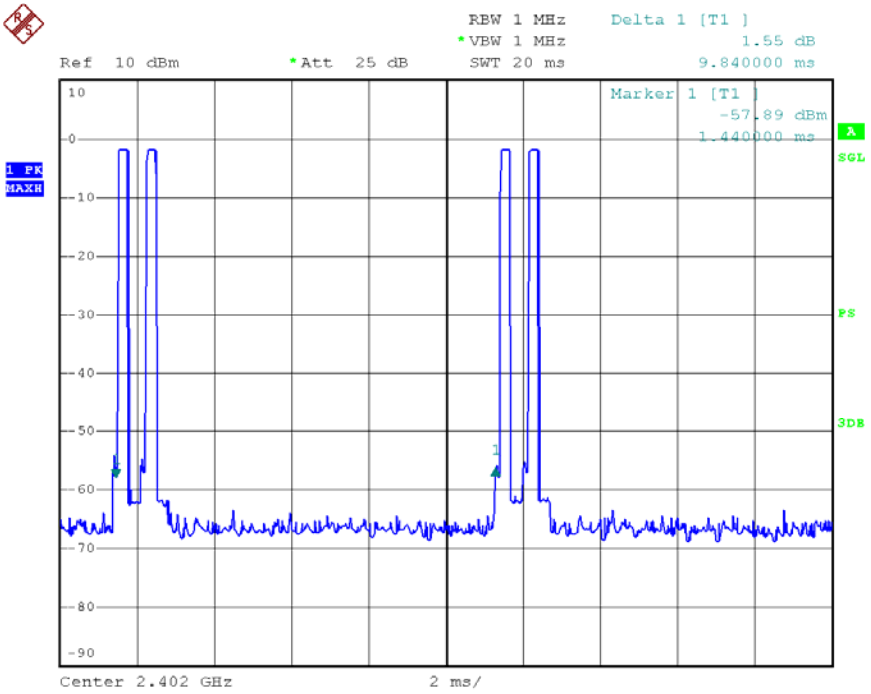
Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Date
Spectrum Analyzer	ROHDE& SCHWARZ	FSP30	DE25181	2012-12-31	2013-12-30
Spectrum Analyzer	Agilent	E4407B	MY49510055	2012-12-31	2013-12-30
EMI Test Receiver	ROHDE& SCHWARZ	ESCI	101165	2012-12-31	2013-12-30
Bilog Antenna	SCHWARZBECK	VULB9168	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.

4.6.1 Duty Cycle

(1) During transmitting mode, one cycle time T1=9.84ms



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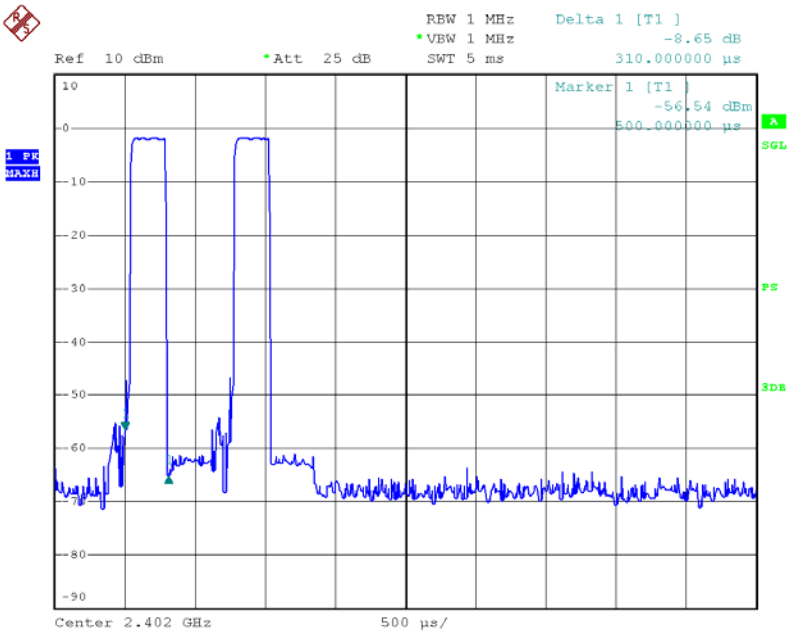
(2)One pulse time T2= 0.31ms



Date: 1.DEC.2013 15:05:28

(3)Duty Cycle= T2*2/T1*100%= 6.30%
(4)Avg=Peak+20log(Duty Cycle)=Peak-24.01

4.6.2 Field Strength of the Fundamental

E.U.T :	2.4GHz Wireless Waterproof Mouse	Model Name :	iM-LM-036
Temperature :	23°C	Relative Humidity :	55%
Test Voltage :	DC 3.0 V		
Test Mode :	TX Mode		

Freq. (MHz)	Ant. Pol. H/V	Emission Level (dBuV/m)		Limit3m (dBuV/m)		Margin(dB)	
		PK	AV	PK	AV	PK	AV
2401.860	V	91.85	67.84	114.00	94.00	22.15	26.16
2438.930	V	91.31	67.30	114.00	94.00	22.69	26.70
2478.950	V	92.48	68.47	114.00	94.00	21.52	25.53
--	V	--	--	114.00	94.00	--	--
--	V	--	--	114.00	94.00	--	--
2401.860	H	93.15	69.14	114.00	94.00	20.85	24.86
2438.930	H	93.02	69.01	114.00	94.00	20.98	24.99
2478.950	H	94.36	70.35	114.00	94.00	19.64	23.65
--	H	--	--	114.00	94.00	--	--
--	H	--	--	114.00	94.00	--	--

Note:

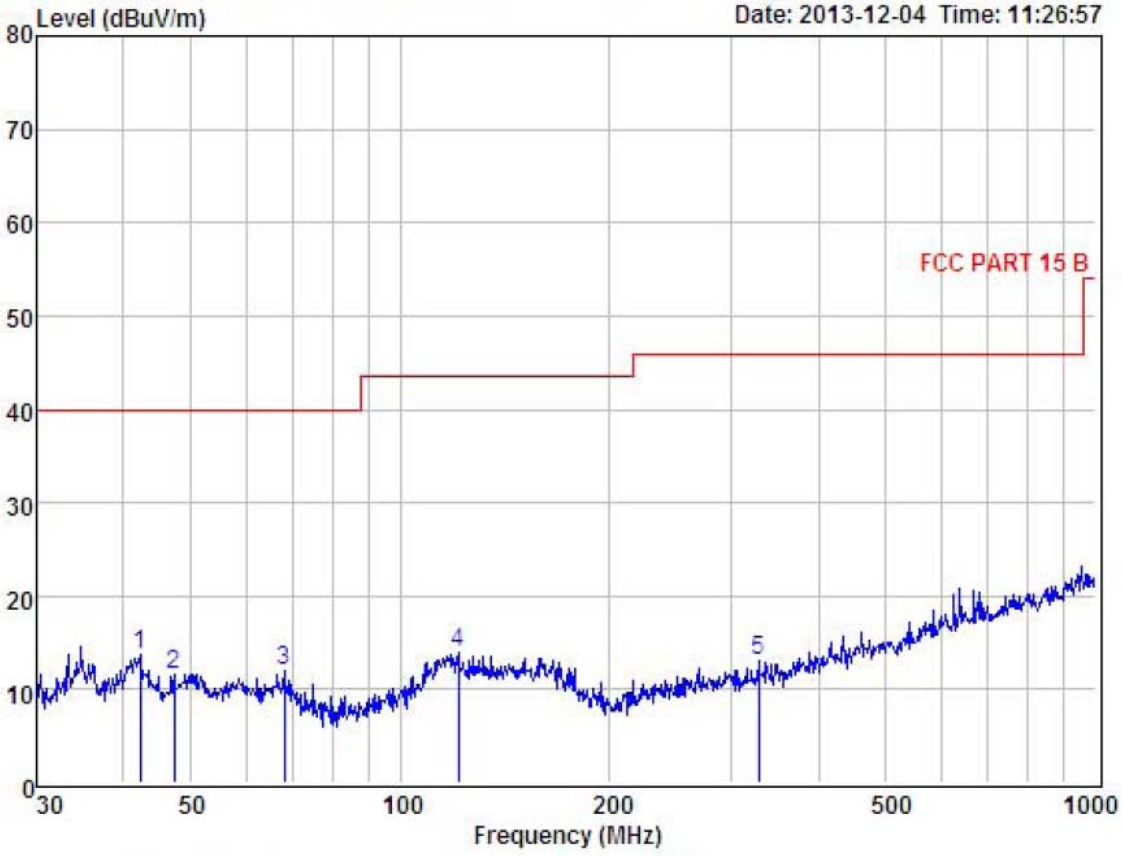
(1) Peak measuring use spectrum setting: RBW/VBW 3 MHz/3 MHz

(2) Average=Peak-24.01

4.6.3 Radiated Spurious Emission (Below 1 GHz)

E.U.T :	2.4GHz Wireless Waterproof Mouse	Model Name :	iM-LM-036
Temperature :	23°C	Relative Humidity :	55%
Polarization	Horizontal		
Test Voltage :	DC 3.0 V		
Test Mode :	TX 2479 Mode		

Remark: Pretest performed at lowest, middle, highest channel, and the highest channel is the worst mode. And only show the worst mode data in reports.

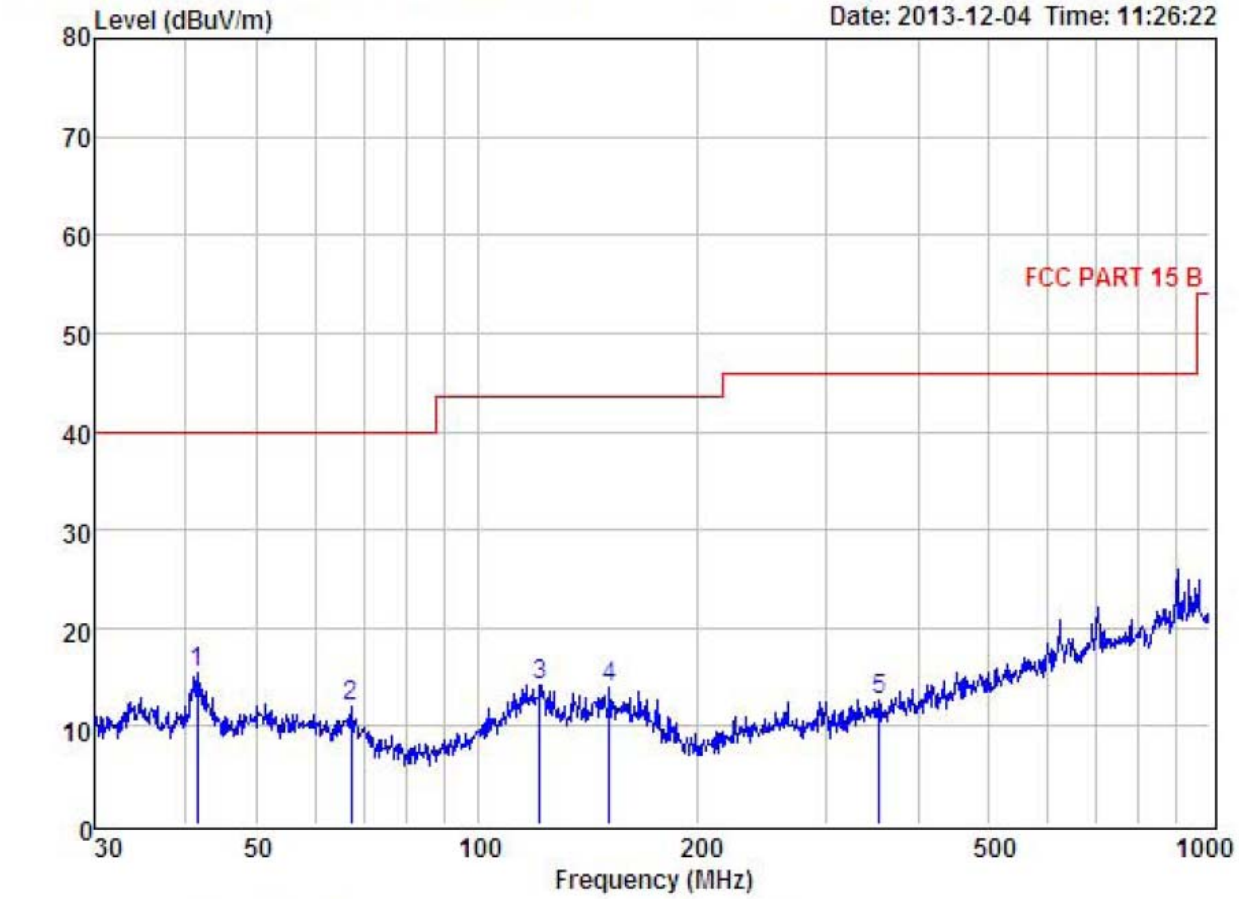


Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	42.30	27.47	13.93	27.81	0.14	13.73	40.00	-26.27	Peak
2	47.33	25.77	13.59	27.82	0.08	11.62	40.00	-28.38	Peak
3	68.15	27.44	11.21	26.98	0.29	11.96	40.00	-28.04	Peak
4	121.12	28.11	12.24	26.88	0.40	13.87	43.50	-29.63	Peak
5	327.89	26.05	13.46	27.23	0.72	13.00	46.00	-33.00	Peak

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

E.U.T :	2.4GHz Wireless Waterproof Mouse	Model Name :	iM-LM-036
Temperature :	23°C	Relative Humidity :	55%
Polarization	Vertical		
Test Voltage :	DC 3.0 V		
Test Mode :	TX 2479 Mode		

Remark: Pretest performed at lowest, middle, highest channel, and the highest channel is the worst mode. And only show the worst mode data in reports.



Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	41.42	29.24	13.93	27.81	0.19	15.55	40.00	-24.45	Peak
2	67.20	27.58	11.21	26.98	0.28	12.09	40.00	-27.91	Peak
3	121.55	28.46	12.24	26.88	0.40	14.22	43.50	-29.28	Peak
4	151.60	26.33	14.16	26.91	0.42	14.00	43.50	-29.50	Peak
5	354.18	25.38	13.91	27.28	0.64	12.65	46.00	-33.35	Peak

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

4.6.4 Radiated Spurious Emission (Above 1 GHz)

E.U.T :	2.4GHz Wireless Waterproof Mouse	Model Name :	iM-LM-036
Temperature :	23°C	Relative Humidity :	55%
Test Voltage :	DC 3.0 V		
Test Mode :	TX 2402 MHz		

Freq. (MHz)	Ant. Pol. H/V	Emission Level (dBuV/m)		Limit3m (dBuV/m)		Margin(dB)	
		PK	AV	PK	AV	PK	AV
4803.260	V	51.05	27.04	74.00	54.00	22.95	26.96
--	V	--	--	74.00	54.00	--	--
--	V	--	--	74.00	54.00	--	--
--	V	--	--	74.00	54.00	--	--
--	V	--	--	74.00	54.00	--	--
4803.260	H	52.84	28.83	74.00	54.00	21.16	25.17
--	H	--	--	74.00	54.00	--	--
--	H	--	--	74.00	54.00	--	--
--	H	--	--	74.00	54.00	--	--
--	H	--	--	74.00	54.00	--	--

Note:

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

(2) Average=Peak-24.01

(3) The emission levels of other frequencies are very lower than the limit and not show in the test report.

E.U.T :	2.4GHz Wireless Waterproof Mouse	Model Name :	iM-LM-036
Temperature :	23°C	Relative Humidity :	55%
Test Voltage :	DC 3.0 V		
Test Mode :	TX 2439 MHz		

Freq. (MHz)	Ant. Pol. H/V	Emission Level (dBuV/m)		Limit3m (dBuV/m)		Margin(dB)	
		PK	AV	PK	AV	PK	AV
4877.960	V	51.29	27.28	74.00	54.00	22.71	26.72
--	V	--	--	74.00	54.00	--	--
--	V	--	--	74.00	54.00	--	--
--	V	--	--	74.00	54.00	--	--
--	V	--	--	74.00	54.00	--	--
4877.960	H	53.07	29.06	74.00	54.00	20.93	24.94
--	H	--	--	74.00	54.00	--	--
--	H	--	--	74.00	54.00	--	--
--	H	--	--	74.00	54.00	--	--
--	H	--	--	74.00	54.00	--	--

Note:

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

(2) Average=Peak-24.01

(3) The emission levels of other frequencies are very lower than the limit and not show in the test report.

E.U.T :	2.4GHz Wireless Waterproof Mouse	Model Name :	iM-LM-036
Temperature :	23°C	Relative Humidity :	55%
Test Voltage :	DC 3.0 V		
Test Mode :	TX 2479 MHz		

Freq. (MHz)	Ant. Pol. H/V	Emission Level (dBuV/m)		Limit3m (dBuV/m)		Margin(dB)	
		PK	AV	PK	AV	PK	AV
4957.950	V	51.97	27.96	74.00	54.00	22.03	26.04
--	V	--	--	74.00	54.00	--	--
--	V	--	--	74.00	54.00	--	--
--	V	--	--	74.00	54.00	--	--
--	V	--	--	74.00	54.00	--	--
4957.950	H	53.36	29.35	74.00	54.00	20.64	24.65
--	H	--	--	74.00	54.00	--	--
--	H	--	--	74.00	54.00	--	--
--	H	--	--	74.00	54.00	--	--
--	H	--	--	74.00	54.00	--	--

Note:

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

(2) Average=Peak-24.01

(3) The emission levels of other frequencies are very lower than the limit and not show in the test report.

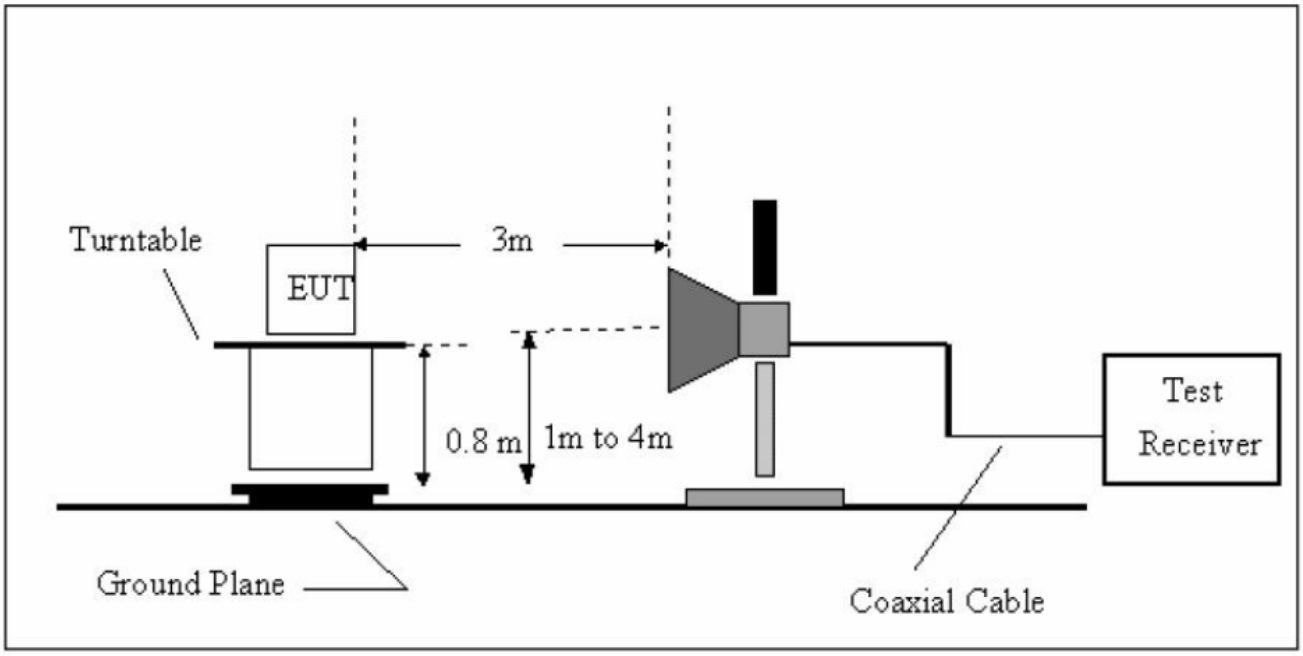
5. Restricted Bands Requirement

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 emission limits in 15.209, whichever is the lesser attenuation
2483.5~2500	

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

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

5.6 Test Data

Band Edge (Radiated Emissions)

Spectrum Detector:	PK & AVG	Test Date :	December 04, 2013
Temperature :	28 ℃	Humidity :	55 %

TX 2402 MHz					
Frequency MHz)	Antenna polarization (H/V)	Emission (dBuV/m)		Band edge Limit (dBuV/m)	
		PEAK	AV	PEAK	AV
2390.0	H	58.25	34.24	74.00	54.00
2390.0	V	57.41	33.40	74.00	54.00
2400.0	H	65.51	41.50	74.00	54.00
2400.0	V	63.04	39.03	74.00	54.00

TX 2479 MHz					
Frequency MHz)	Antenna polarization (H/V)	Emission (dBuV/m)		Band edge Limit (dBuV/m)	
		PEAK	AV	PEAK	AV
2483.5	H	60.34	36.33	74.00	54.00
2483.5	V	58.73	34.72	74.00	54.00
2500.0	H	48.05	24.04	74.00	54.00
2500.0	V	46.37	22.36	74.00	54.00

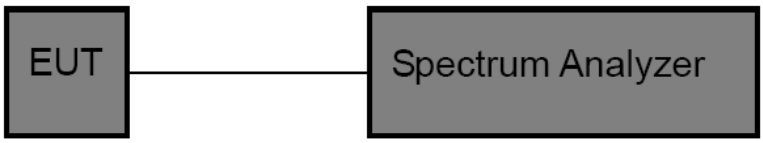
Note:

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

(2) Average=Peak-24.01

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.

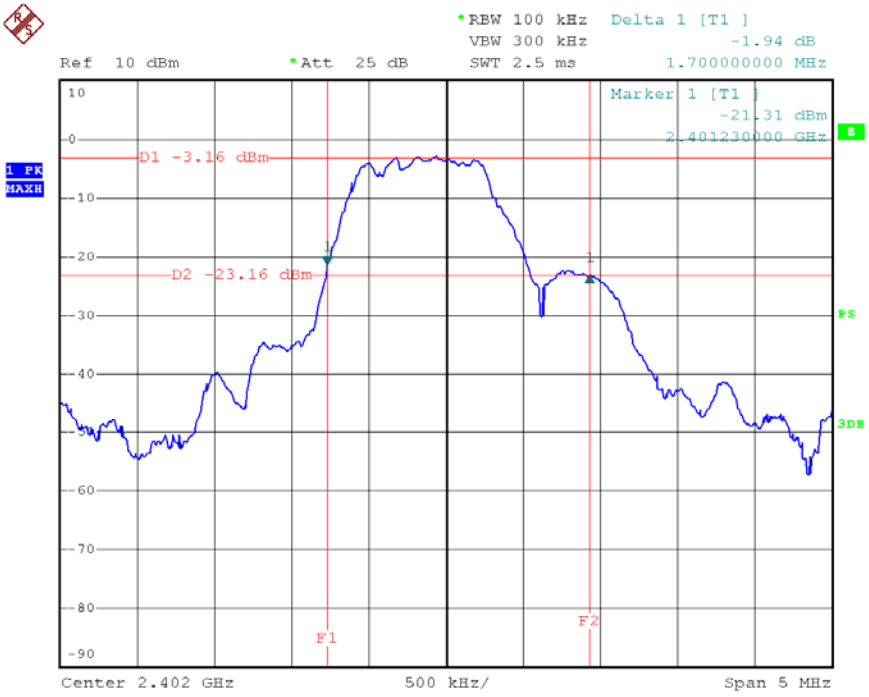
6.4 Test Equipment

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

6.5 Test Data

Low Channel Frequency (MHz)	20dB Bandwidth (MHz)
2402	1.700

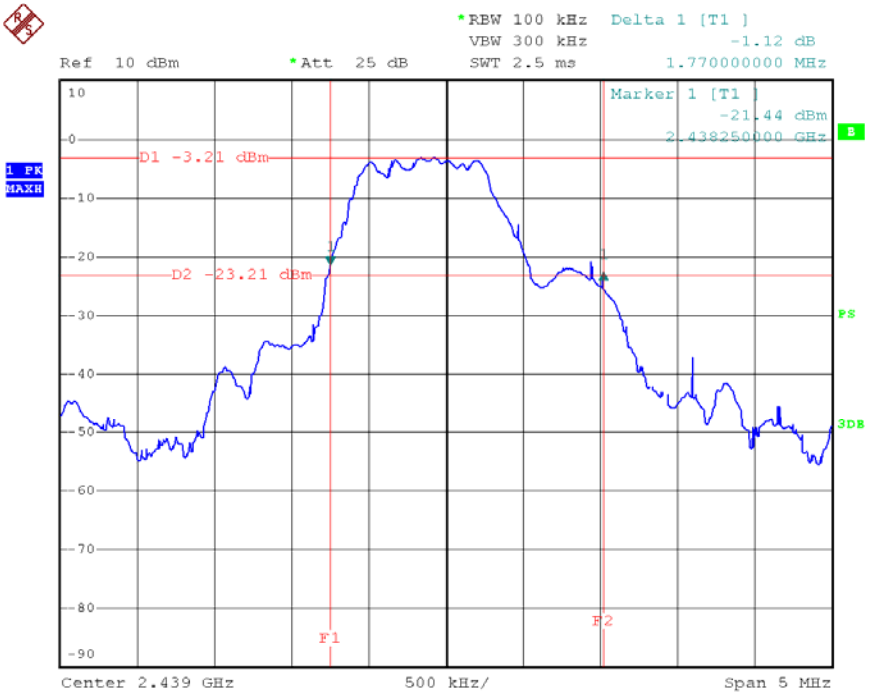
2402 MHz



Date: 4.DEC.2013 13:34:54

MID Channel Frequency (MHz)	20dB Bandwidth (MHz)
2439	1.770

2439 MHz



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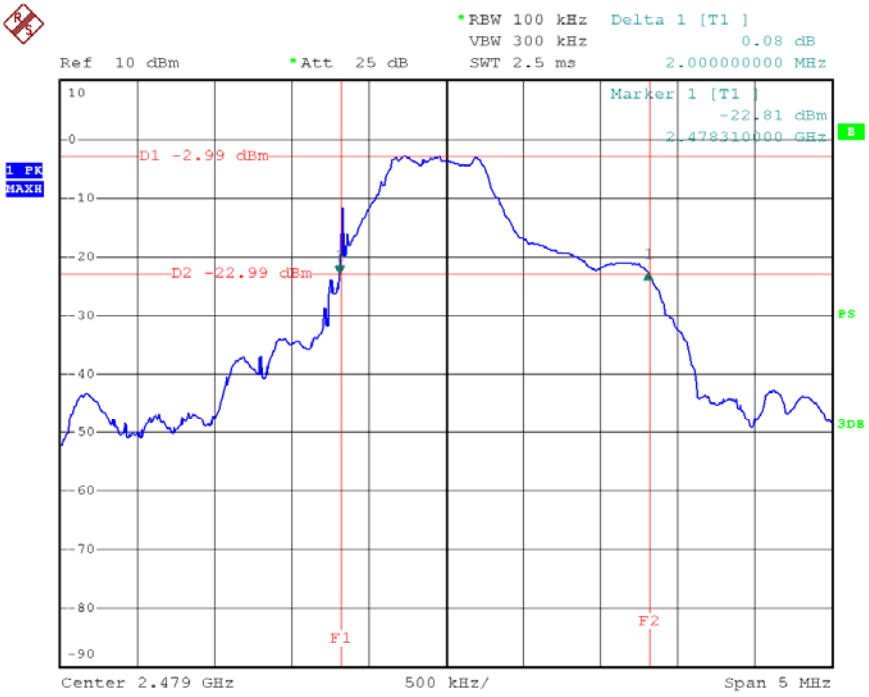
HIGH Channel Frequency (MHz)	20dB Bandwidth (MHz)
2479	2.000

2479 MHz



Date: 4.DEC.2013 13:32:48

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.