

## FCC PART 15.249 TEST REPORT

Product: 2.4G Wireless Mouse  
Model: CYM-5001  
FCC ID: SKPCYM-5001  
Report No.: BZT-2013NT0805123F  
Issued Date: July 30, 2013

Issued for:

**Shenzhen Bol-Link Electronic Co., Ltd**  
**6/F Bldg.6, HuaFeng Industrial Zone, Fuyong Town, Baoan, Shenzhen,**  
**Guangdong, China 518103**

Issued By:

**BZT Testing Technology Co., Ltd.**  
**1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street**  
**Bao'an District, Shenzhen P.R. China**

**Tested By:** \_\_\_\_\_

Apple Huang(EMC Engineer)

**Approved By:** \_\_\_\_\_

Bovey Yang(Technical Manager)

**Note:**

*The results detailed in this test report relate only to the specific sample(s) tested. It is the Application's responsibility to ensure that all production units are manufactured with equivalent EMC characteristics. This report is not to be reproduced except in full, without written approval from BZT Technology.*

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**1.0 General Details****1.1 Test Lab Details**

Name :	BZT Testing Technology Co., Ltd
Address:	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

Site Listed with Federal Communication Commission

Registration Number: 701733

For 3m chamber

**1.2 Applicant Details**

Applicant:	Shenzhen Bol-Link Electronic Co., Ltd.
Address:	6/F Bldg.6, HuaFeng Industrial Zone, Fuyong Town, Baoan, Shenzhen, Guangdong, China 518103
Telephone:	(86) 755-33812260
Fax:	(86) 755-33812262

## 1.3 Description of EUT

Product:	2.4G Wireless Mouse
Brand Name:	N/A
Model No.:	CYM-5001
Additional Model No.	CYM-5002, CYM-5003, CYM-5004, CYM-5005, CYM-5006, CYM-9006, CYM-9009, CYM-9092, CYM-9093, CYM-9094, CYM-9095, CYM-9096, CYM-9097, CYM-9098
Rating:	DC 3V (1.5V*2 AAA batteries)
Modulation Type:	GFSK
Channel Number:	16
Operation Frequency	2402 MHz-2480 MHz
Operation Channels	2402 MHz, 2406 MHz, 2410 MHz, 2416 MHz, 2420 MHz, 2424 MHz, 2428 MHz, 2432 MHz, 2436 MHz, 2441 MHz, 2445 MHz, 2450 MHz, 2460 MHz, 2465 MHz, 2470 MHz, 2480 MHz.
Antenna Designation	An PCB printed antenna and the maximum gain is 0 dBi
Modes Statement:	All modes above are identical in interior structure, electrical circuits and components; just model names are different for the marketing requirement.

## 1.4 Submitted Sample

1 Sample(s)

**2.0 Test equipments and Associated Equipment used during the test.****2.1 Test Equipments****Radiation Test equipment**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	E4407B	160400005	Jul. 06. 2014
2	Test Receiver	R&S	ESPI	101318	Jul. 06. 2014
3	Bilog Antenna	TESEQ	CBL6111D	31216	Jul. 06. 2014
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	Jul. 06. 2014
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	Jul. 06. 2014
6	Horn Antenna	EM	EM-AH-10180	2011071402	Jul. 06. 2014
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	Jul. 06. 2014
8	Amplifier	EM	EM-30180	060538	Jul. 06. 2014
9	Loop Antenna	ARA	PLA-1030/B	1029	Jul. 06. 2014
10	Power Meter	R&S	NRVS	100696	Jul. 06. 2014
11	Power Sensor (Peak)	R&S	NRV-Z31	0396.0101.19	Jul. 06. 2014

**Conduction Test equipment**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Test Receiver	R&S	ESCI	101160	Jul. 06. 2014
2	LISN	R&S	ENV216	101313	Jul. 06. 2014
3	LISN	EMCO	3816/2	00042990	Jul. 06. 2014
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	Jul. 06. 2014
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	Jul. 06. 2014
6	Absorbing clamp	R&S	MOS-21	100423	Jul. 06. 2014

**2.2 AE used during the test**

Equipment type	Manufacturer	Model
N/A		
N/A		
N/A		
N/A		

### 3.0 Technical Details

#### 3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15:2012, Paragraph 15.207	Conducted Emission Test	PASS	N/A
FCC Part 15:2012 Subpart C Paragraph 15.249(a)	Radiated Emission Test	PASS	Complies
FCC Part 15:2012 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	PASS	Complies
FCC Part 15:2012 Subpart C Paragraph 15.215(c)	20 dB Bandwidth	PASS	Complies

Note: N/A=Not Applicable

#### 3.2 Test Standards

FCC Part 15:2012 Subpart C, Paragraph 15.249

### 4.0 EUT Modification

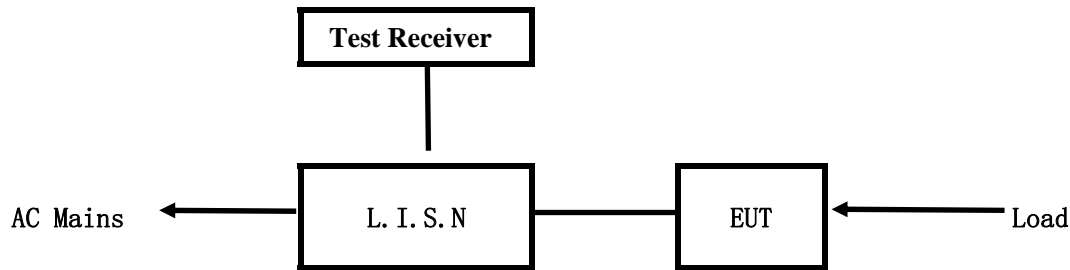
No modification by BZT Testing Technology Co., Ltd

### 5.0 Measurement Uncertainty ( 95% confidence levels, k=2)

No.	Item	MU
1.	Radio Frequency	$\pm 1 \times 10^{-9}$
2.	Temperature	$\pm 0.1^{\circ}\text{C}$
3.	Humidity	$\pm 1.0\%$
4.	RF power, conducted	$\pm 0.34\text{dB}$
5.	Spurious emissions, conducted	$\pm 3.70\text{dB}$
6.	All emissions, radiated	$\pm 4.50\text{dB}$

## 6. Power Line Conducted Emission Test

### 6.1 Schematics of the test



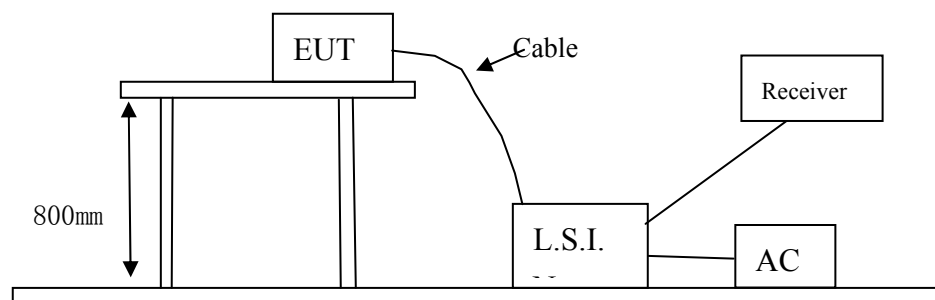
EUT: Equipment Under Test

### 6.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



### 6.3 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003

- 1) Setup the EUT and simulators as shown on the following
- 2) Enable AF signal and confirm EUT active to normal condition

### 6.4 Test Equipment

Please refer to the Section 2

## 6.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency(MHz)	Class A Limits (dB $\mu$ V)		Class B Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

- Notes:
1. \*Decreasing linearly with logarithm of frequency.
  2. The tighter limit shall apply at the transition frequencies

## 6.6 Photo documentation of the test set-up

Please refer to the Section 12

## 6.7 Test specification:

Environmental conditions:	Temperature:	23° C	Humidity:	51%	Atmospheric pressure:	103kPa
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Frequency range: 0.15 MHz – 30 MHz

The test was carried out in the following operation mode(s):

- Tx mode

## 6.8 Test result

Min. limit margin ---

The requirements are FULFILLED

Remarks: The EUT is powered by batteries only, so the test item is not applicable.



**A Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)**

EUT Description:

Operation Mode:

Tested By:

Test date:

Start Frequency	Stop Frequency	Step	IF BW	Detector	Final M-Time
0.15MHz	30MHz	4.5KHz	10KHz	QP+AV	1s

Frequency (MHz)	Reading(dB $\mu$ V)				Limit (dB $\mu$ V)	
	Line		Neutral		(dB $\mu$ V)	
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--

**B Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)**

EUT Description:

Operation Mode:

Tested By:

Test Data:

Start Frequency	Stop Frequency	Step	IF BW	Detector	Final M-Time
0.15MHz	30MHz	4.5KHz	10KHz	QP+AV	1s

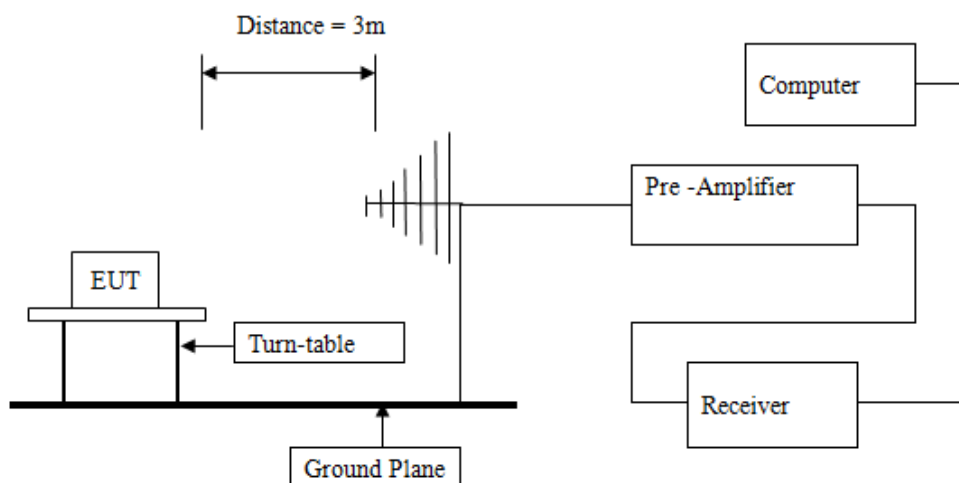
Frequency (MHz)	Reading(dB $\mu$ V)				Limit (dB $\mu$ V)	
	Live		Neutral		(dB $\mu$ V)	
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
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## 7 Radiated Emission Test

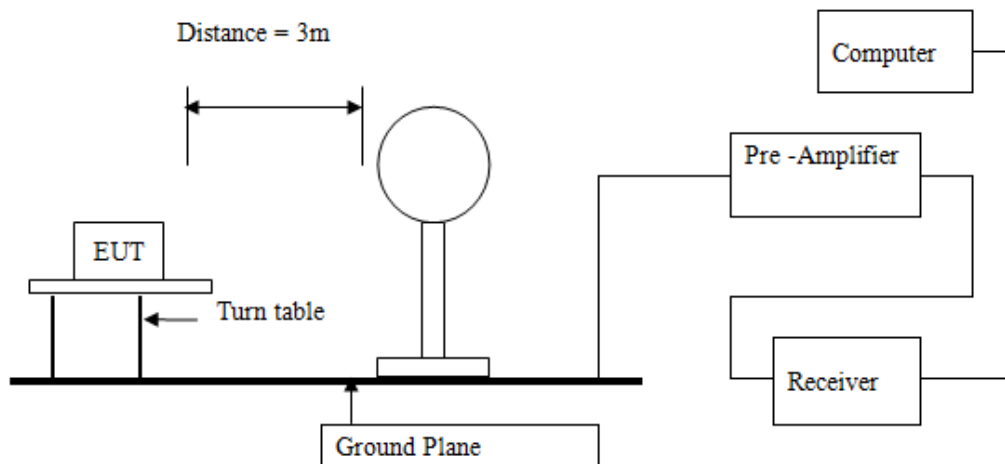
### 7.1 Test Method and test Procedure:

- 1) The EUT was tested according to ANSI C63.4 –2003.
- 2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- 3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.
- 4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- 5) The antenna polarization: Vertical polarization and Horizontal polarization.

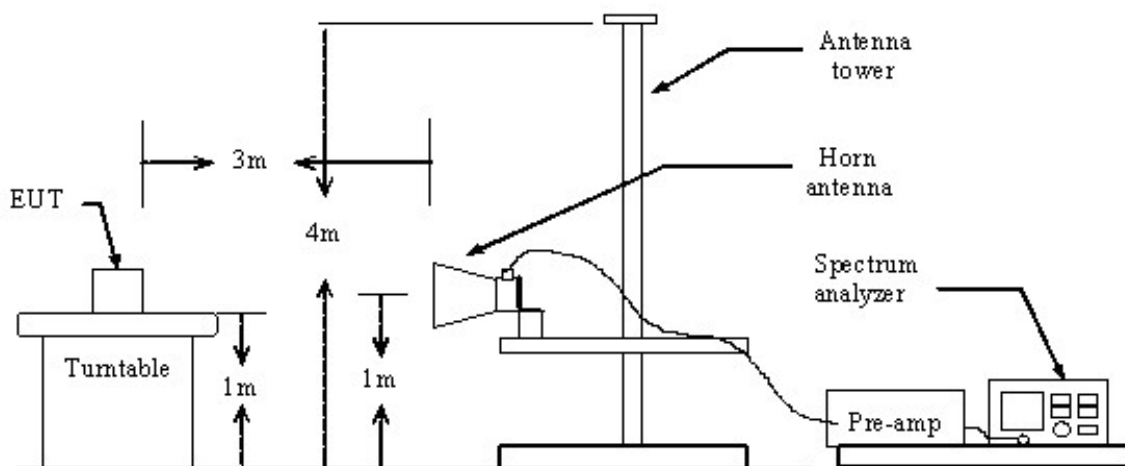
### Block diagram of Test setup



Block diagram of Test setup for frequency below 30MHz



Block diagram of Test setup for frequency above 1GHz



## 7.2 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003

### 7.3 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

#### A FCC Part 15:2012 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)		Field Strength of Harmonics (3m)		
	mV/m	dBuV/m		uV/m	dBuV/m
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average) 74 (Peak)

Note: 1) RF Field Strength (dBuV) = 20 log RF Voltage (uV)

2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3) The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

#### B Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
0.009-0.490	3	20log 2400/F (kHz) + 80
0.490-1.705	3	20log 24000/F (kHz) + 40
1.705-30	3	20log 30 + 40
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1) RF Voltage (dBuV) = 20 log RF Voltage (uV)

2) In the Above Table, the tighter limit applies at the band edges.

3) Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4) This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

5) All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK and AV detector.

### 7.4 Photo documentation of the test set-up

Please refer to the Section 12

### 7.5 Test Equipment:

Please refer to the Section 2

### 7.6 Test specification:

Environmental conditions: Temperature 24° C Humidity: 51% Atmospheric pressure: 103kPa

## 7.7 Test result

**A Radiated Emission (9 kHz----30 MHz)**

Note: 1) Emission Level=Reading+ Cable loss-Antenna factor-Amp factor  
2) The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

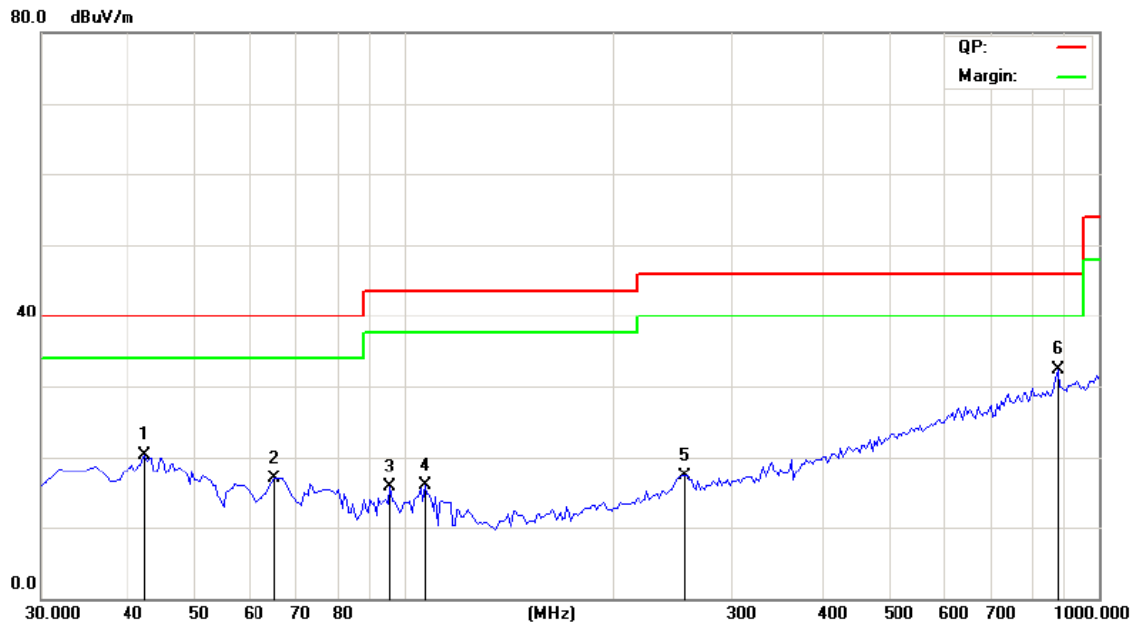
Result: Pass

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
--	--	V	--
--	--	H	--
--	--	V	--
--	--	H	--

**B General Radiated Emissions Data****Radiated Emission In Horizontal (30MHz----1000MHz)**

Please refer to following diagram for individual

Low channel: 2402 MHz

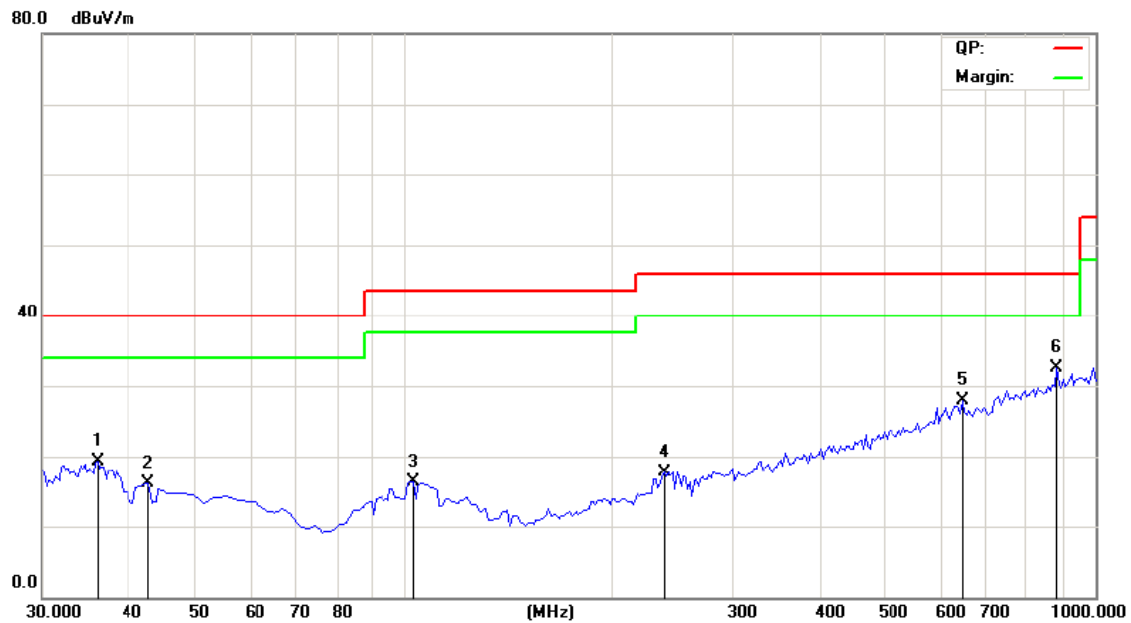


Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
42.5463	20.57	H	40.00
64.9265	16.67	H	40.00
96.2463	15.73	H	43.50
107.7421	15.46	H	43.50
255.4354	17.57	H	46.00
879.4522	32.57	H	46.00

**Radiated Emission In Vertical (30MHz----1000MHz)**

Please refer to following diagram for individual

Low channel: 2402 MHz



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
36.3657	19.57	V	40.00
42.6637	16.74	V	40.00
103.6357	16.33	V	43.50
239.9575	17.78	V	46.00
642.3658	27.09	V	46.00
883.3635	32.46	V	46.00

Note: Measurements were conducted in all channels (high, middle, low), and the worst case (low channel) was submitted only.



**C Fundamental & Harmonics Radiated Emission Data (1000MHz-25000MHz)**

<b>Low channel: 2402 MHz</b>				
<b>Frequency (MHz)</b>	<b>Emission PK/AV (dBuV/m)</b>	<b>Horizontal / Vertical</b>	<b>Limits PK/AV (dBuV/m)</b>	<b>Margin (dB)</b>
2402	81.46(PK)	H	114/94	12.54
2402	77.15(PK)	V	114/94	16.85
4804	40.27(PK)	H	74/54	13.73
4804	39.51(PK)	V	74/54	14.49
7206	--	H	74/54	--
7206	--	V	74/54	--
9608	--	H/V	74/54	--
12040	--	H/V	74/54	--
14412	--	H/V	74/54	--
16814	--	H/V	74/54	--
19216	--	H/V	74/54	--
21618	--	H/V	74/54	--
24020	--	H/V	74/54	--

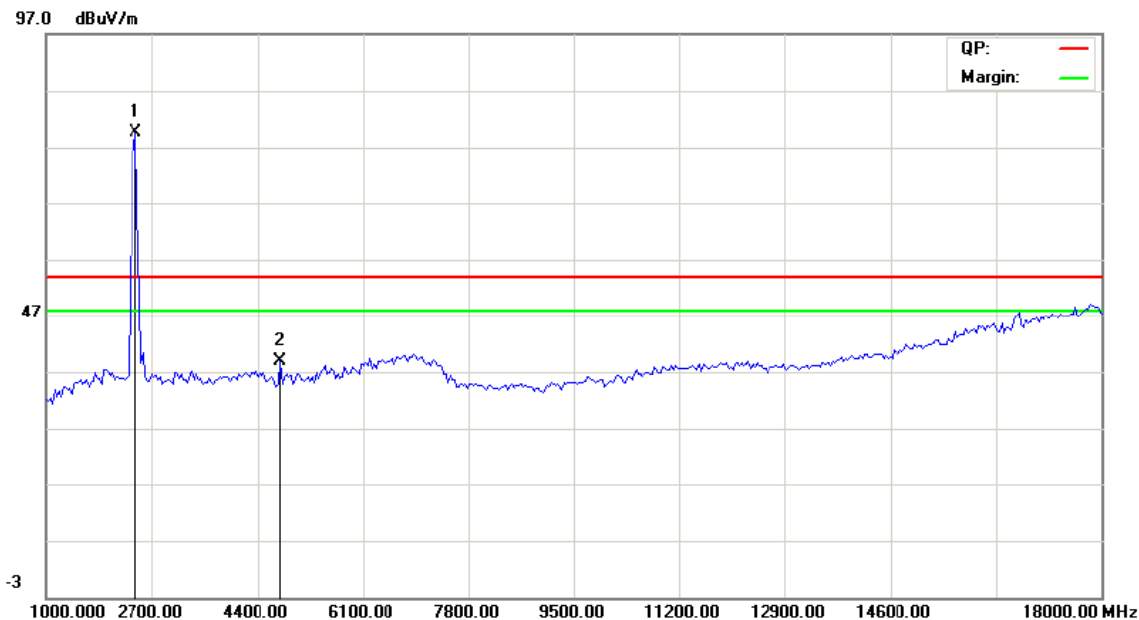
<b>Middle channel: 2441 MHz</b>				
<b>Frequency (MHz)</b>	<b>Emission PK/AV (dBuV/m)</b>	<b>Horizontal / Vertical</b>	<b>Limits PK/AV (dBuV/m)</b>	<b>Margin (dB)</b>
2441	79.65 (PK)	H	114/94	14.35
2441	72.21 (PK)	V	114/94	21.79
4882	40.66 (PK)	H	74/54	13.34
4882	39.32 (PK)	V	74/54	14.68
7323	--	H/V	74/54	--
9764	--	H/V	74/54	--
12205	--	H/V	74/54	--
14646	--	H/V	74/54	--
17087	--	H/V	74/54	--
19528	--	H/V	74/54	--
22969	--	H/V	74/54	--
24410	--	H/V	74/54	--

<b>High channel: 2480 MHz</b>				
<b>Frequency (MHz)</b>	<b>Emission PK/AV (dBuV/m)</b>	<b>Horizontal/ Vertical</b>	<b>Limits PK/AV (dBuV/m)</b>	<b>Margin (dB)</b>
2480	78.46 (PK)	H	114/94	15.54
2480	73.11 (PK)	V	114/94	20.89
4960	40.76 (PK)	H	74/54	13.24
4960	39.26 (PK)	V	74/54	14.74
7440	--	H/V	74/54	--
9920	--	H/V	74/54	--
12400	--	H/V	74/54	--
14880	--	H/V	74/54	--
17360	--	H/V	74/54	--
19840	--	H/V	74/54	--
22320	--	H/V	74/54	--
24800	--	H/V	74/54	--

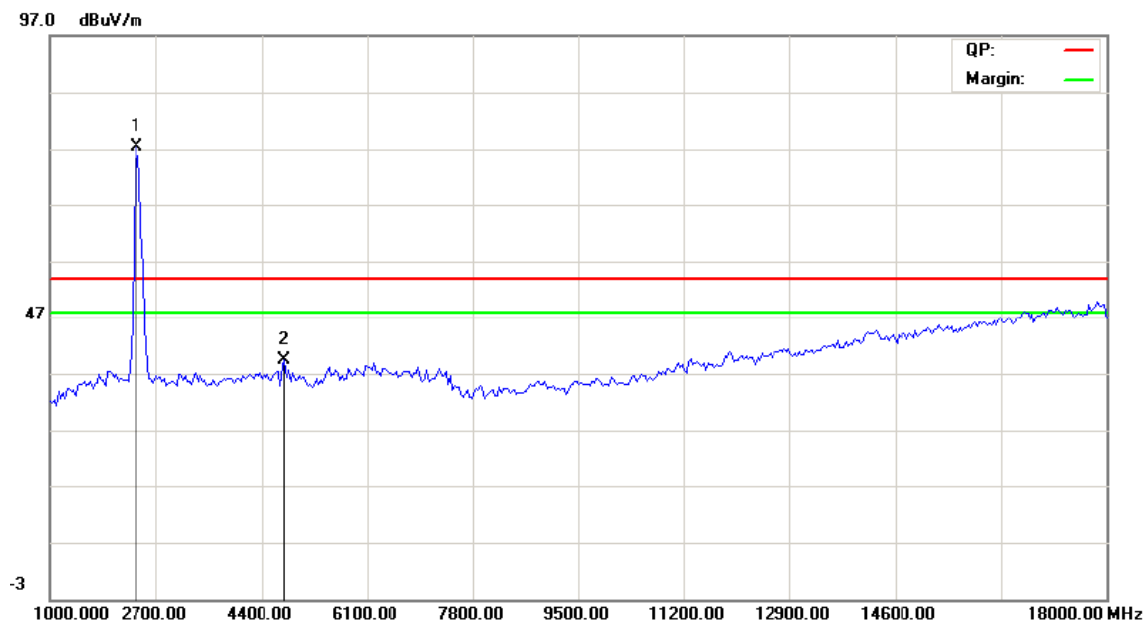
- Note:
- 1) PK= Peak, AV= Average
  - 2) Emission Level = Reading Level + Antenna Factor + Cable Loss.
  - 3) Margin= Limit(AV) – Emission Level
  - 4) According to section 15.35(b), the peak limit is 20dB higher than the average limit
  - 5) If the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
  - 6) It is the floor noise from 18-25GHz, which is deemed to comply with the requirement of the rule.

Please refer to the following diagram for individual  
Low Channel: 2402 MHz

H

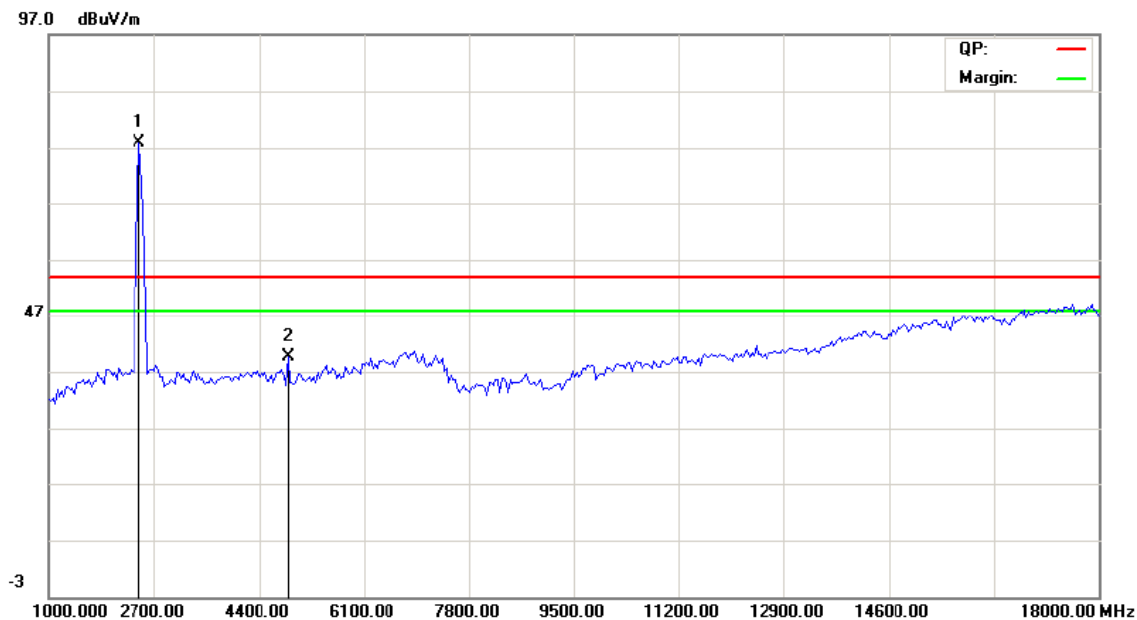


V

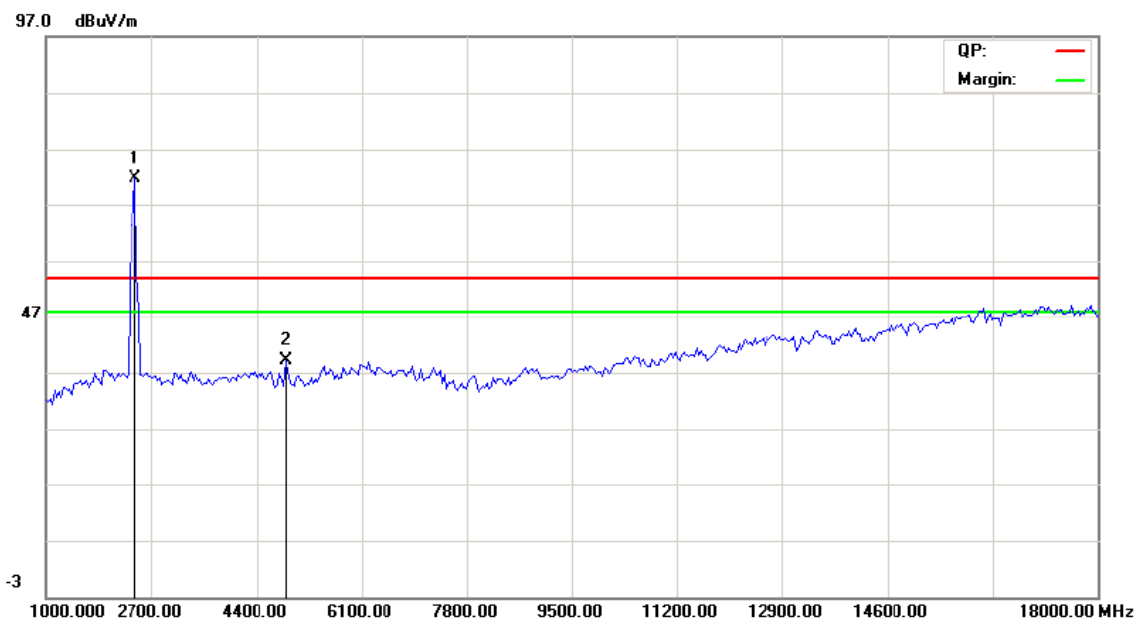


Please refer to following diagram for individual  
Middle Channel: 2441 MHz

H

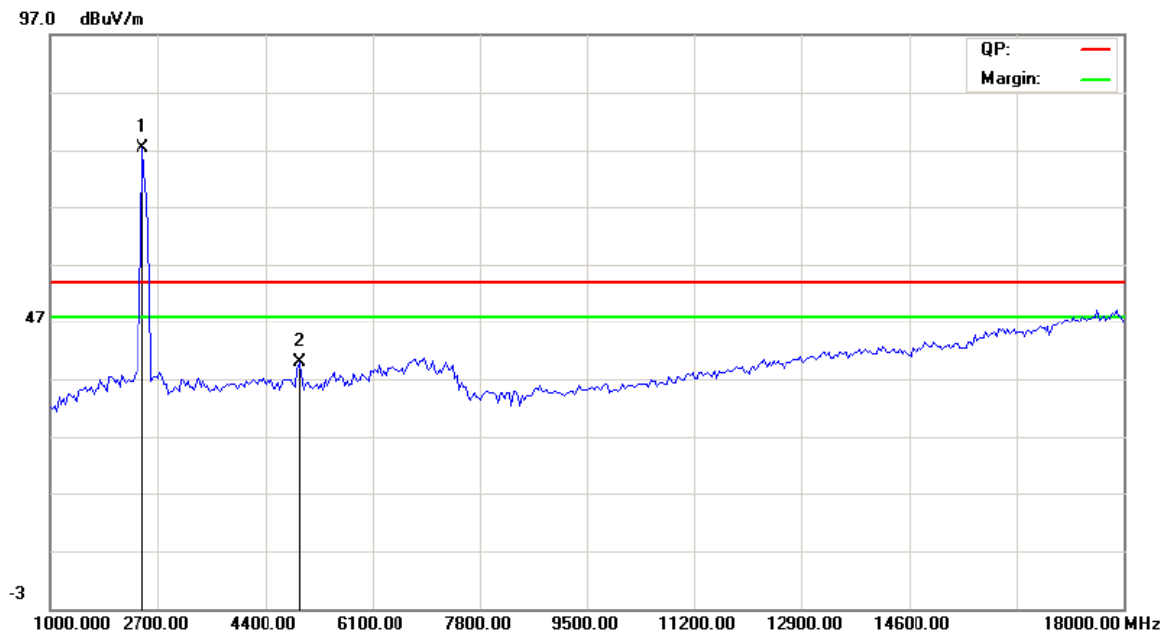


V

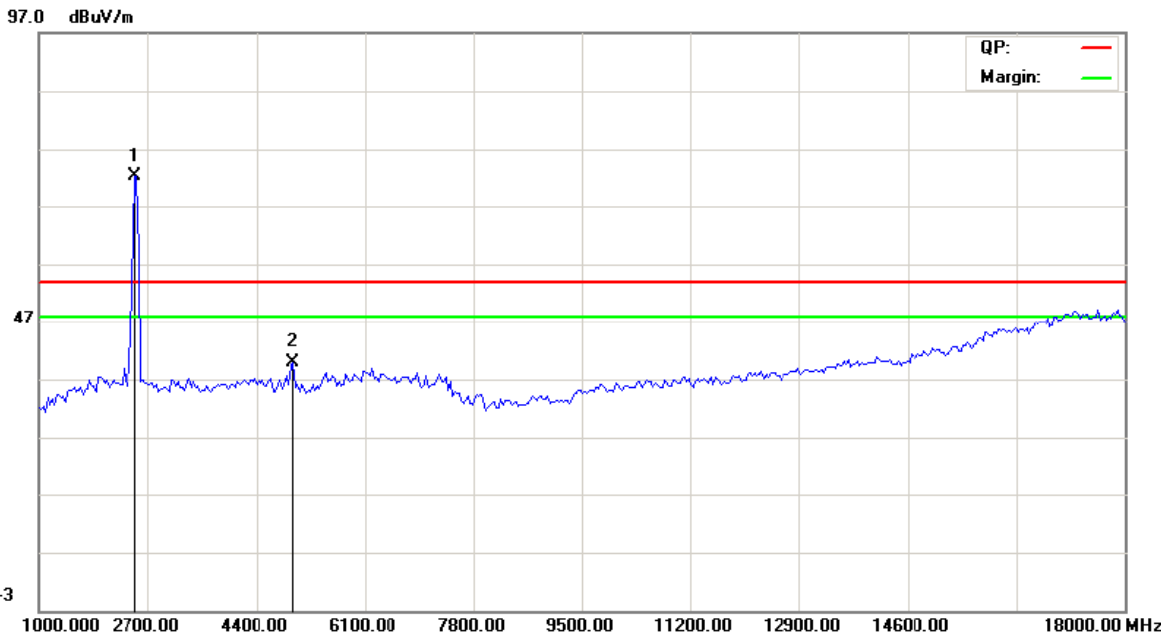


Please refer to following diagram for individual  
High Channel: 2480 MHz

H

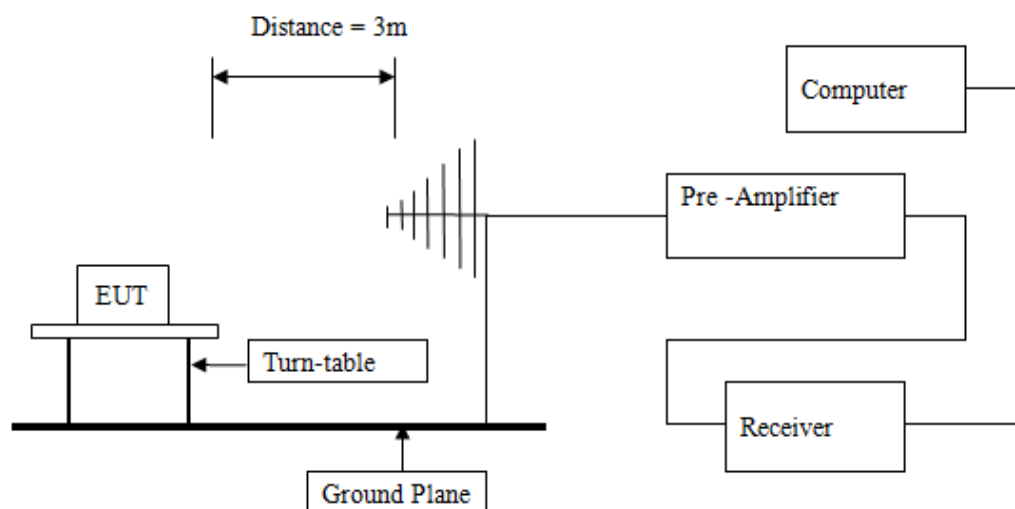


V



## 8. Band Edge

### 8.1 Radiated Test Setup



For the actual test configuration , please refer to the related items – Photos of Testing

### 8.2 Band Edge Limit

- 1) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.
- 2) For Emissions in Restricted band, the limit is below the general radiated emission limits in Section 15.209. The provisions in Section 15.35 apply to these measurements.

### 8.3 Test Equipment

Please refer to the Section 2

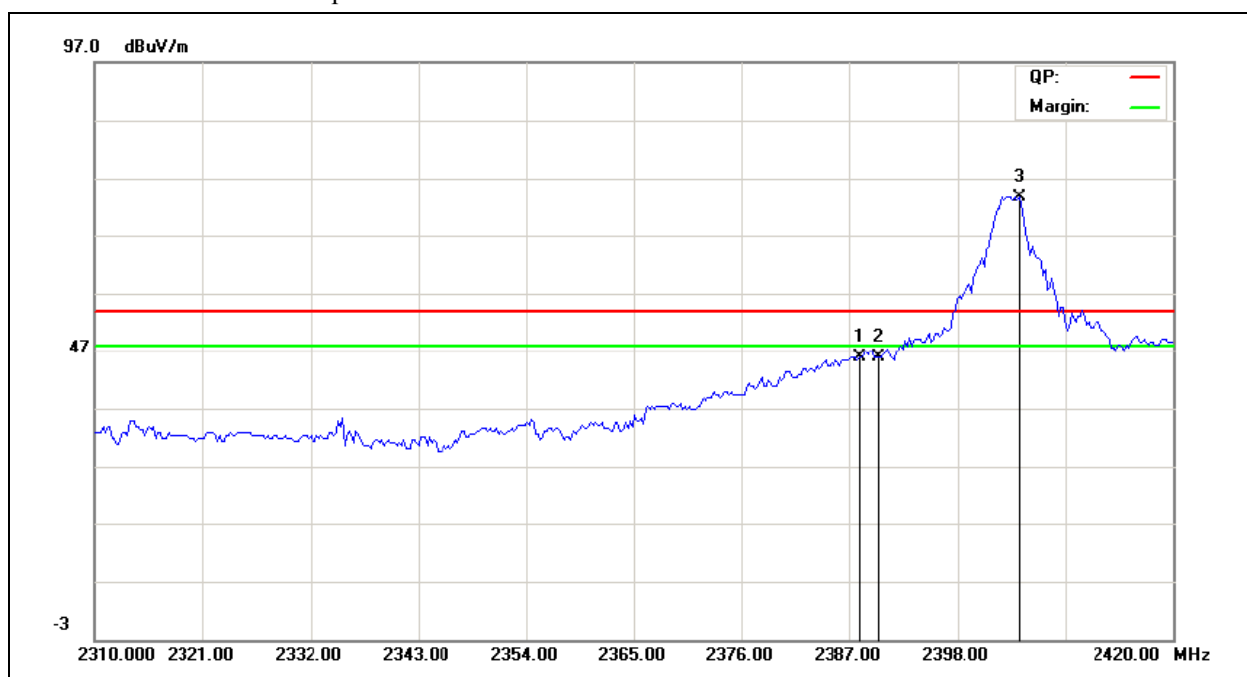
### 8.4 Test Produce

According to KDB 913591:

- 1) Perform an in-band field strength measurement of the fundamental emission using the RBW and detector function for the frequency being measured, as required by C63.4 and FCC Rules.
- 2) Choose the span that encompasses both the peak of the fundamental emission and the band edge emission under investigation. Set the analyzer RBW to 1% of the total span (but never less than 30 kHz) with a video bandwidth equal to or greater than the RBW. Observe the amplitude delta between the peak of the fundamental and the peak of the band edge emission and record.
- 3) Subtract the delta measured in step 2) from the field strengths measured in step 1). The resultant field strengths (CISPR QP, average, or peak, as appropriate) are then used to determine band edge compliance as required by Section 15.205.

## 8.5 Test Result

Low channel in Horizontal polarization

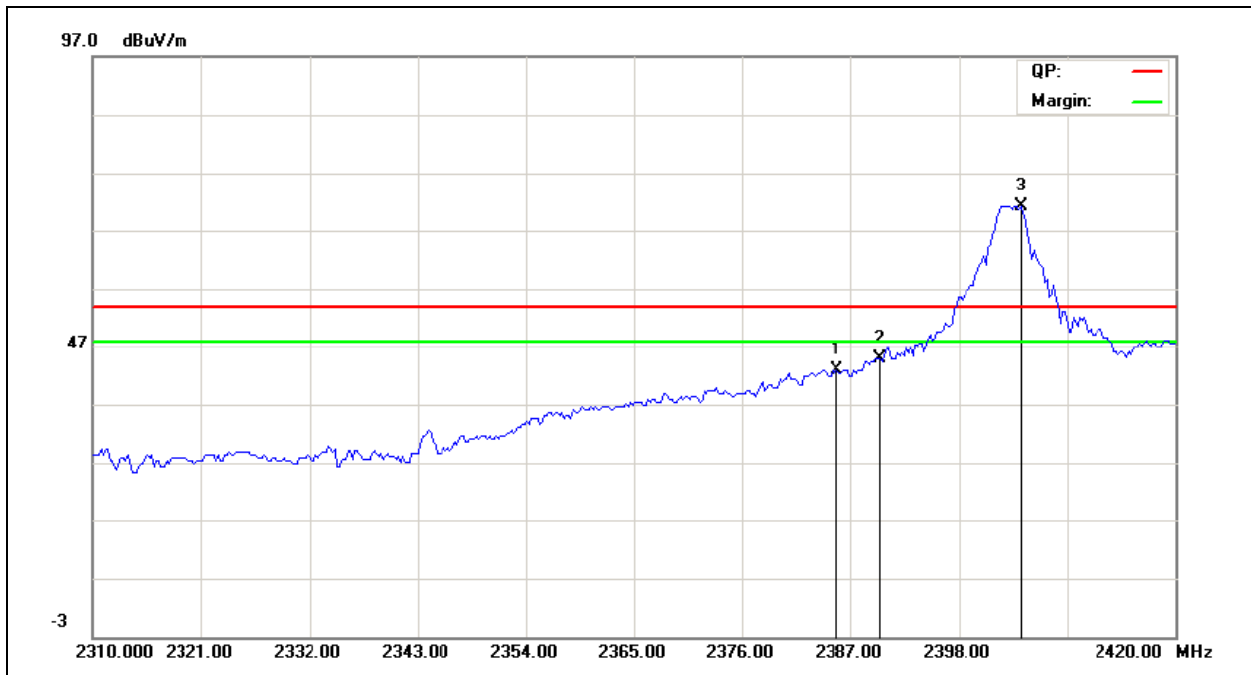


Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Detector	Limit@3m (dB $\mu$ V/m)
2388.036	45.93	Peak	74.00
2390.000	45.92	Peak	74.00
2404.349	73.62	Peak	114.00

Note: 1) As the table shown above, emissions radiated outside of the specified frequency bands are met the requirements in Section 15.209.

2) Marker-delta method was used to get the final result; the maximum emission in the restricted band is 53.61 dBuV/m at 2388.043 MHz, which meets the average limit in section 15.209. It is deemed to comply with the requirements.

## Low channel in Vertical polarization



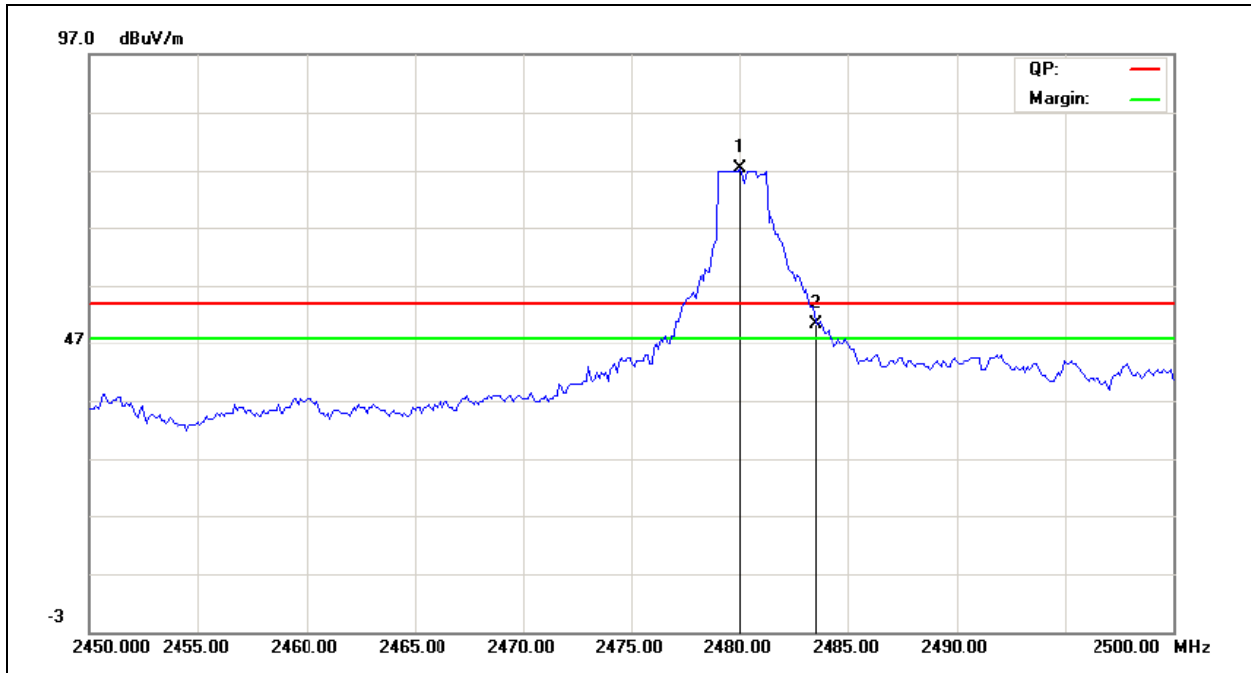
Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Detector	Limit@3m (dB $\mu$ V/m)
2385.611	42.91	Peak	74.00
2390.000	44.94	Peak	74.00
2404.349	71.24	Peak	114.00

Note: 1) As the table shown above, emissions radiated outside of the specified frequency bands are met the requirements in Section 15.209.

2) Marker-delta method was used to get the final result; the maximum emission in the restricted band is 51.72 dBuV/m at 2390 MHz, which meets the average limit in section 15.209. It is deemed to comply with the requirements.



## High channel in Horizontal polarization

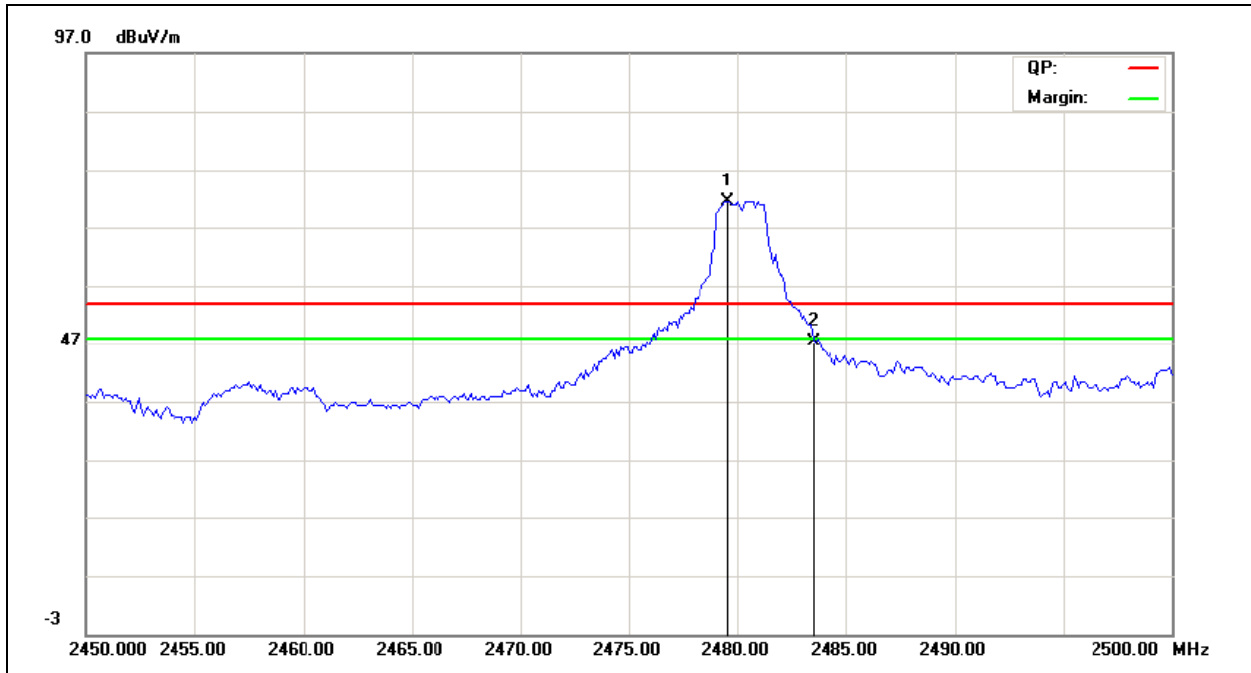


Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Detector	Limit@3m (dB $\mu$ V/m)
2480.060	77.51	peak	114.00
2483.500	50.36	peak	74.00

Note: 1) As the table shown above, emissions radiated outside of the specified frequency bands are met the requirements in Section 15.209.

2) Marker-delta method was used to get the final result; the maximum emission in the restricted band is 51.65 dBuV/m at 2483.5 MHz, which meets the average limit in section 15.209. It is deemed to comply with the requirements.

## High channel in Vertical polarization



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Detector	Limit@3m (dB $\mu$ V/m)
2479.459	71.34	peak	114.00
2483.500	47.26	peak	74.00

Note: 1) As the table shown above, emissions radiated outside of the specified frequency bands are met the requirements in Section 15.209.

2) Marker-delta method was used to get the final result; the maximum emission in the restricted band is 49.23 dBuV/m at 2483.5 MHz, which meets the average limit in section 15.209. It is deemed to comply with the requirements.

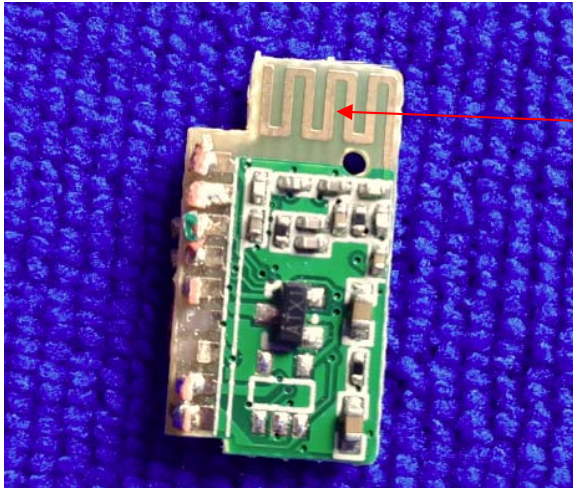
## 9.0 Antenna Requirement

### 9.1 Applicable Standard

According to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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.

### 9.2 Antenna Specification

The EUT has an PCB printed antenna, and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.



Antenna.

## 10.0 20dB Bandwidth Measurement

### 10.1 Test Equipment

Please refer to the Section 2

### 10.2 Test specification:

Environmental conditions: Temperature 24° C Humidity: 52% Atmospheric pressure: 103kPa

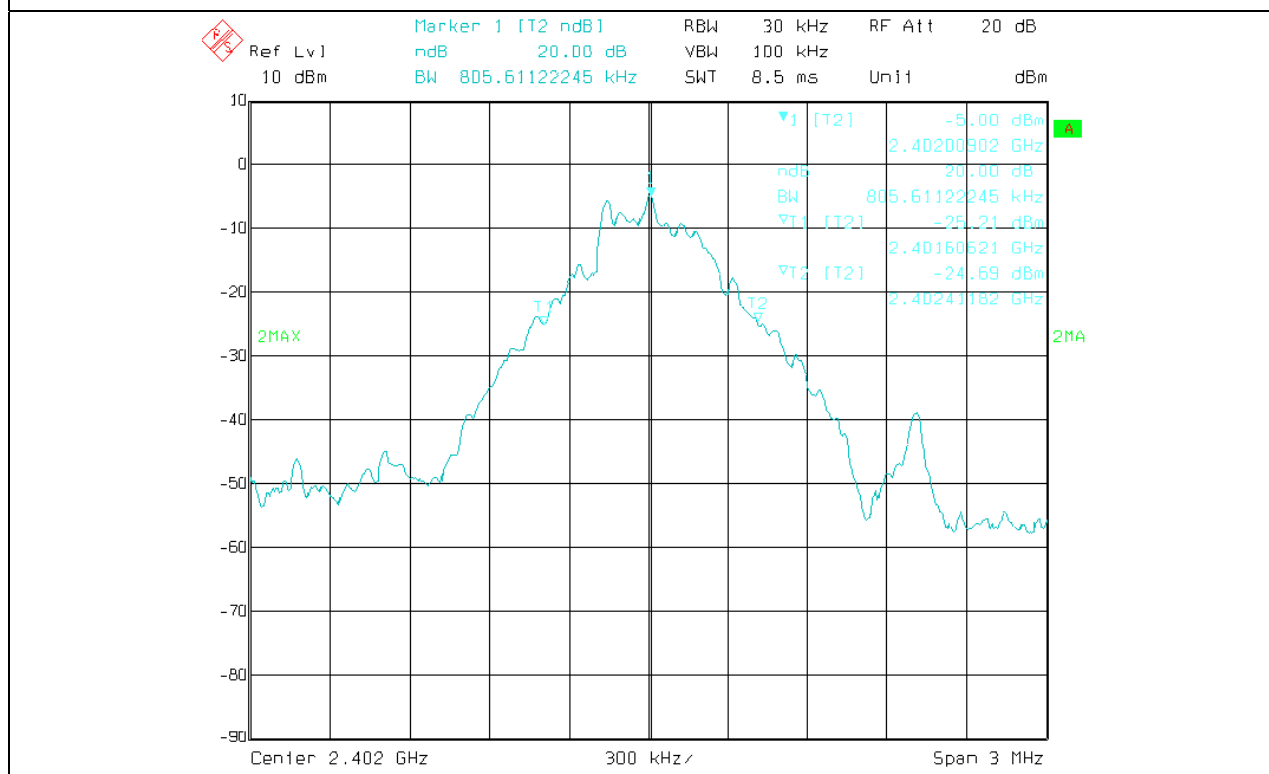
### 10.3 Limit

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.

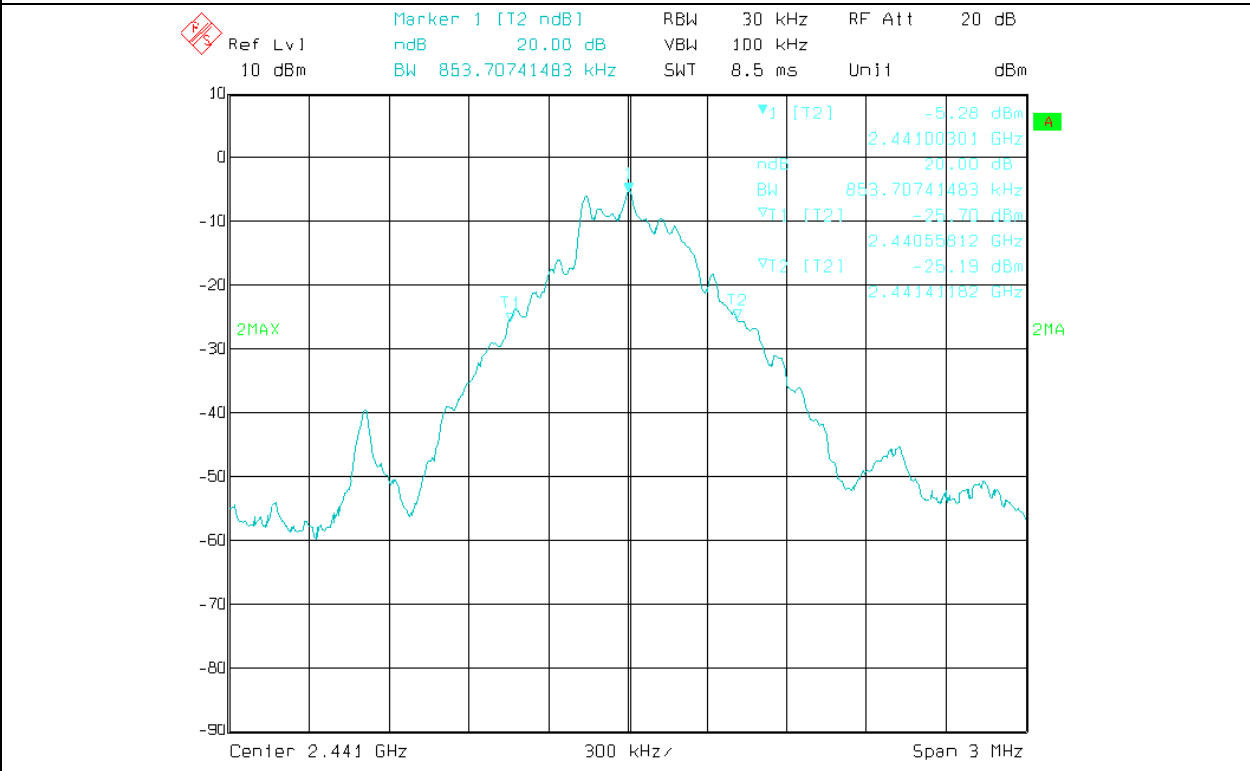
### 10.4 Test Result:

Channel number	20dB Bandwidth (kHz)	Limit (kHz)	Conclusion
(Low)	805.6	---	PASS
(Middle)	853.7	---	PASS
(High)	853.7	---	PASS

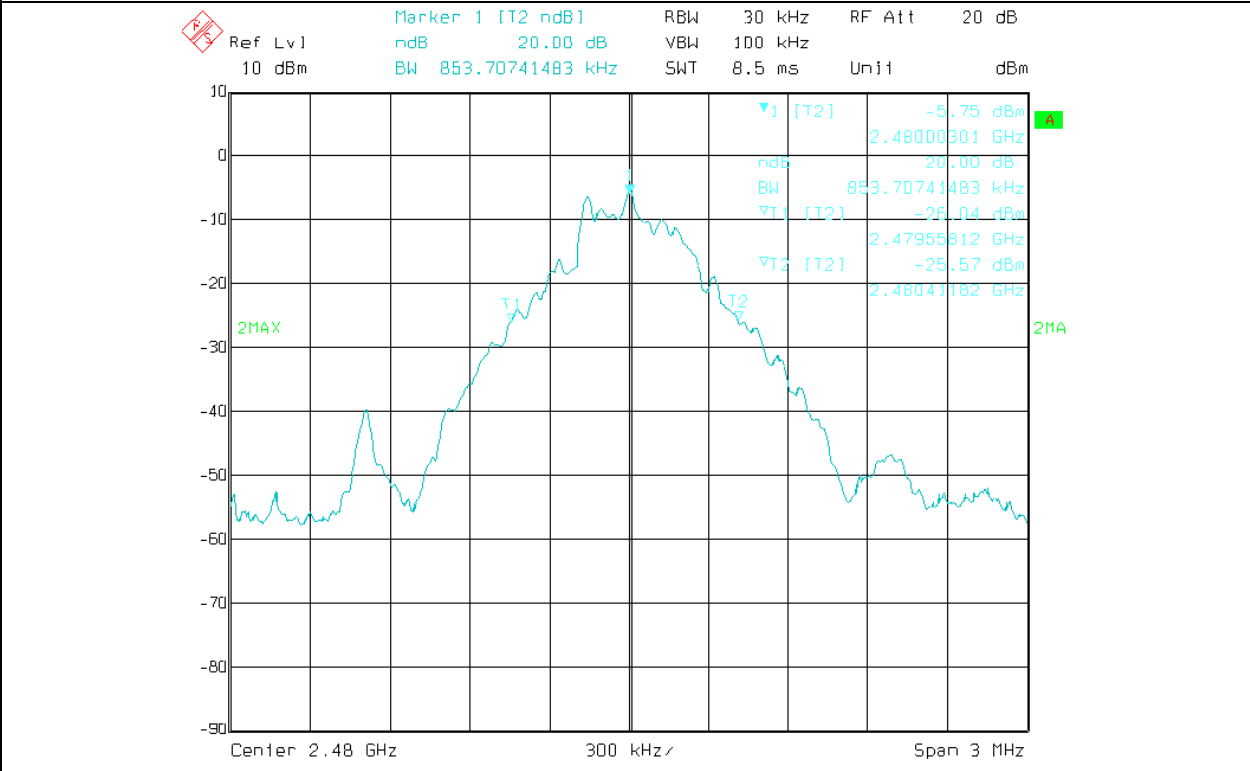
Low channel: 2403 MHz



Middle channel: 2441 MHz



High channel: 2480 MHz



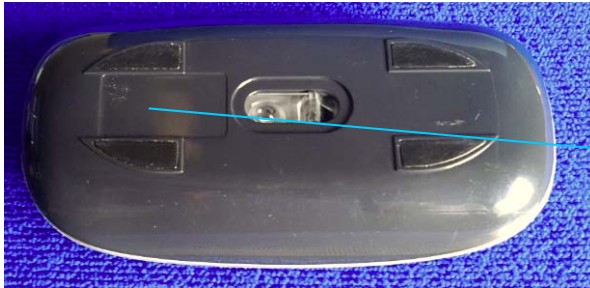
## 11.0 FCC ID Label

**FCC ID: SKPCYM-5001**

**This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.**

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

### Mark Location:



FCC ID Label

\*\*\*\*\*END OF THE REPORT\*\*\*\*\*