

# FCC COMPLIANCE REPORT

for

HUIZHOU FORYOU GENERAL ELECTRONICS CO., LTD.

Bluetooth Box

Model Number: BTM10(JENSEN);BTM10(ADVENT);  
BTM10(Audiovox);CAB501(FORYOU)

Prepared for : HUIZHOU FORYOU GENERAL ELECTRONICS CO., LTD.  
Address : No.6 Zhongkai Songshan Industrial Distric, Huizhou  
Guangdong, China.

Prepared By : NS Technology Co., Ltd.  
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Report Number : NSE-F08052100  
Date of Test : Jun. 16, 2008  
Date of Report : Jun. 23, 2008



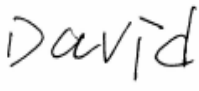


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# NS Technology Co., Ltd.

<b>Applicant:</b>	HUIZHOU FORYOU GENERAL ELECTRONICS CO., LTD.		
<b>Address:</b>	No.6 Zhongkai Songshan Industrial Distric, Huizhou Guangdong, China.		
<b>Manufacturer:</b>	HUIZHOU FORYOU GENERAL ELECTRONICS CO., LTD.		
<b>Address:</b>	No.6 Zhongkai Songshan Industrial Distric, Huizhou Guangdong, China.		
<b>E.U.T:</b>	Bluetooth Box		
<b>Model Number:</b>	BTM10(JENSEN);BTM10(ADVENT);BTM10(Audiovox); CAB501(FORYOU)		
<b>Trade Name:</b>	-----	<b>Operating Frequency:</b>	2402MHz~2480MHz
<b>Date of Receipt:</b>	Mar. 25, 2008	<b>Date of Test:</b>	Jun. 16, 2008
<b>Test Specification:</b>	FCC Part 15 Subpart C: Sep. 20, 2007 ANSI C63.4:2003 DA 00-705		
<b>Test Result:</b>	The equipment under test was found to be compliance with the requirements of the standards applied.		
			<b>Issue Date: Jun. 23, 2008</b>
Tested by:	Reviewed by:	Approved by:	
			
David / Engineer	Iceman Hu / Supervisor	Steven Lee / Manager	
<b>Other Aspects:</b>	None.		
<i>Abbreviations: OK/P=passed    fail/F=failed    n.a/N=not applicable    E.U.T=equipment under tested</i>			
<i>This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of NS Technology Co., Ltd.</i>			



# 1. GENERAL PRODUCT INFORMATION

## 1.1. Product Function

Details please refer to Technical Construction Form and User Manual.

## 1.2. Description of Device (EUT)

E.U.T.	: Bluetooth Box
Model No.	: BTM10
Operating Frequency	: 2400MHz to 2483.5MHz
Number of Channels	: 79 Channels
Channel Separation	: 1MHz
Type of Modulation	: FHSS(Frequency Hopping Spread Spectrum);
Dwell time	: Each channel is less than 0.4S.
Antenna Type	: Integral
System Input Voltage	: Nominal Voltage: DC 12V
Temperature Range(Operating)	: +15 ~+ 35°C

## 1.3. Difference between Model Numbers

*All model numbers use identical circuit and PCB layout. Only the model name are different.*

## 1.4. Independent Operation Modes

The basic operation modes are:

Channel No.	Operation Frequency(MHz)	Channel No.	Operation frequency(MHz)
CH1	2402	CH41	2442
CH2	2403	CH42	2443
CH3	2404	CH43	2444
CH4	2405	CH44	2445
CH5	2406	CH45	2446
CH6	2407	CH46	2447
CH7	2408	CH47	2448
CH8	2409	CH48	2449
CH9	2410	CH49	2450
CH10	2411	CH50	2451
CH11	2412	CH51	2452
CH12	2413	CH52	2453
CH13	2414	CH53	2454
CH14	2415	CH54	2455
CH15	2416	CH55	2456
CH16	2417	CH56	2457
CH17	2418	CH57	2458
CH18	2419	CH58	2459
CH19	2420	CH59	2460
CH20	2421	CH60	2461
CH21	2422	CH61	2462
CH22	2423	CH62	2463
CH23	2424	CH63	2464



CH24	2425	CH64	2465
CH25	2426	CH65	2466
CH26	2427	CH66	2467
CH27	2428	CH67	2468
CH28	2429	CH68	2469
CH29	2430	CH69	2470
CH30	2431	CH70	2471
CH31	2432	CH71	2472
CH32	2433	CH72	2473
CH33	2434	CH73	2474
CH34	2435	CH74	2475
CH35	2436	CH75	2476
CH36	2437	CH76	2477
CH37	2438	CH77	2478
CH38	2439	CH78	2479
CH39	2440	CH79	2480
CH40	2441		

The tested modes are:

- 1.4.1. CH1 (2402MHz),
- 1.4.2. CH40 (2441MHz),
- 1.4.3. CH79 (2480MHz)
- 1.4.4. Normal operating

## 2. TEST SITES

### 2.1. Test Facilities

EMC Lab : Certificated by TUV Rheinland, Germany.  
Date of registration: July 28, 2003

Certificated by FCC, USA  
Registration No.: 897109  
Date of registration: October 10, 2003

Certificated by VCCI, Japan  
Registration No.: R-1798 & C-1926  
Date of registration: January 30, 2004

Certificated by CNAL, CHINA  
Registration No.: L1744  
Date of registration: November 25, 2004

Certificated by Intertek ETL SEMKO  
Registration No.: TMP-013  
Date of registration: June 11, 2005

Certificated by TUV/PS, Hong Kong  
Date of registration: December 1, 2005

Certificated by Industry Canada  
Registration No.: 5936  
Date of registration: March 24, 2006

Certificated by ATCB, America  
Date of registration: August 03, 2006

Name of Firm : NS Technology Co., Ltd.

Site Location : Chenwu Industrial Zone, Houjie Town, Dongguan City,  
Guangdong, China



## 2.2. List of Test and Measurement Instruments

### 2.2.1. For maximum conducted output power test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	Agilent	E4416A	MY45100656	Mar.20,08	Mar.20,09
Power Sensor	Agilent	E9327A	MY44420694	Mar.20,08	Mar.20,09

### 2.2.2. For occupied bandwidth test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	R/S	ESPI	1142.8007.03	Mar.20,08	Mar.20,09

### 2.2.3. For dwell time test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	R/S	ESPI	1142.8007.03	Mar.20,08	Mar.20,09

### 2.2.4. For adjacent channel separation test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	R/S	ESPI	1142.8007.03	Mar.20,08	Mar.20,09

### 2.2.5. For channel number test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	R/S	ESPI	1142.8007.03	Mar.20,08	Mar.20,09

### 2.2.6. For Radiation Emission Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Test Receiver	Rohde & Schwarz	ESCS30	100199	Mar.20,08	Mar.20,09
Spectrum Analyzer	HP	8593E	3448U00806	Mar.20,08	Mar.20,09
Amplifier	Agilent	8447D	2944A10488	May 2,08	May 2,09
Signal Generator	HP	8648A	3426A01263	Apr.8,08	Apr.8,09
Bilog Antenna	EMCO	3142B	00022050	May 2,08	May 2,09
Horn Antenna	EMCO	3117	00062558	May 2,08	May 2,09

### 2.2.7. For band edge test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	R/S	ESPI	1142.8007.03	Mar.20,08	Mar.20,09

### 2.2.8. For Conducted Emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E4407B	MY41440292	Mar.20,08	Mar.20,09

### **3. TEST SET-UP AND OPERATION MODES**

#### **3.1. Principle of Configuration Selection**

The equipment under test (EUT) was configured to measure its highest possible radiated level. The test modes were adapted accordingly in reference to the Operating Instructions.

#### **3.2. Block Diagram of Test Set-up**

Refer to follow test item

#### **3.3. Test Operation Mode and Test Software**

Refer to clause 1.4

#### **3.4. Special Accessories and Auxiliary Equipment**

None.

#### **3.5. Countermeasures to Achieve EMC Compliance**

None.



## 4. TEST SUMMARY

### Test items and result lists

No.	Item	Specification	Remarks	Results
1	Conducted emission	FCC Part15.207	--	N/A
2	20dB Bandwidth	FCC Part15.247(a)(1) DA 00-705	Conducted	PASS
3	Number of Hopping Frequency	FCC Part15.247(a)(1)(iii) DA 00-705	Conducted	PASS
4	Dwell time	FCC Part15.247(a)(1)(iii) DA 00-705	Conducted	PASS
5	Band Edge	FCC Part 15.247(c) DA 00-705	Conducted	PASS
6	Maximum Peak Output Power	FCC Part 15.247(b)(1) DA 00-705	Conducted	PASS
7	Transmitter Spurious Emission	FCC Part 15.247(c) DA 00-705	Radiated Conducted	PASS
8	Carrier Frequency Separation	FCC Part 15.247(a)(1) DA 00-705	Conducted	PASS

Note : N/A stand for not applicable.

## 4.1. Maximum Peak Conducted Output Power

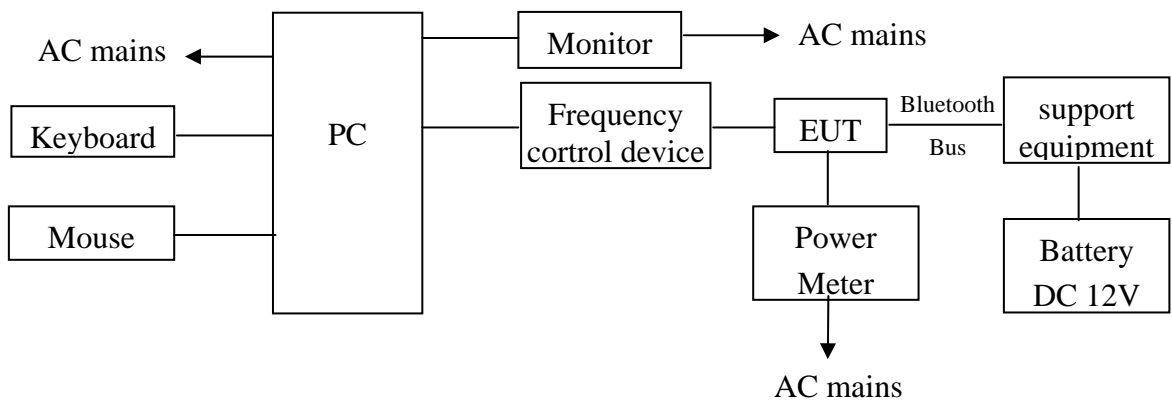
### 4.1.1. Test limits

The maximum peak conducted output power shall less than 125mW

### 4.1.2. Test procedure

1. Ensure the spectrum analyzer is calibrated and during a valid calibration.
2. The EUT was placed on a turntable which is 0.8m above ground plane.
3. Connect EUT RF output port to the Power meter through an RF attenuator.
4. Set the EUT work on the CH1, CH40,CH79 individually.
5. record maximum peak conducted output power.

### 4.1.3. Test setup diagram



### 4.1.4. Test result

Test condition: Temp:25.3°C ; Humi:55% Test voltage: DC 12V

frequency MHz	Reading dBm	Cable loss dB	Result (dBm)	Limit dBm	Margin dBm
2402	1.99	0.63	2.62	20.97	18.35
2441	1.84	0.57	2.41	20.97	18.56
2480	1.27	0.68	1.95	20.97	19.02

**Note:** Transmitter Effective Isotropic radiated power =SA +cable loss+Ant gain

## 4.2. 20dB Occupied Bandwidth

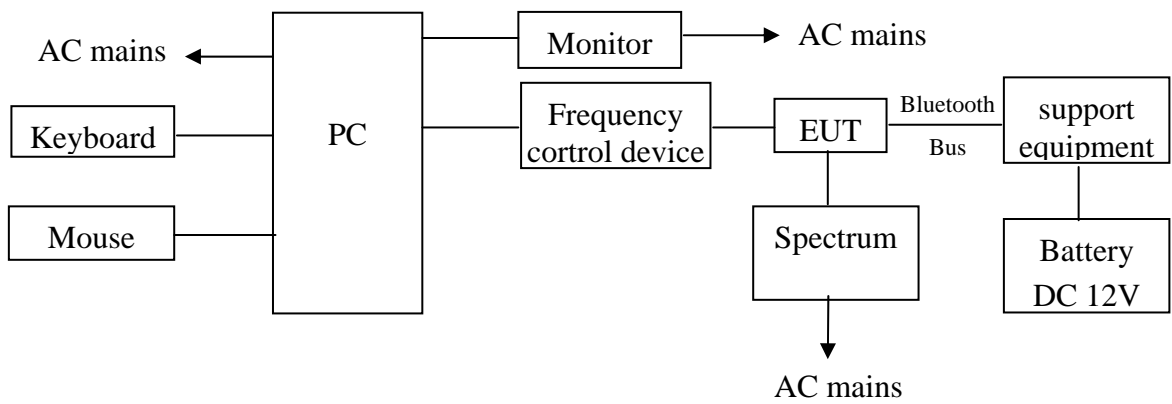
### 4.2.1. Test limits

No requirement.

### 4.2.2. Test procedure

1. The EUT was placed on a turntable which is 0.8m above ground plane.
2. Connect EUT RF output port to the spectrum analyzer through an RF attenuator.
2. Set the EUT work on the CH1, CH40,CH79 individually.
3. Set SA Center Frequency = Operation frequency, RBW=100kHz,VBW=300kHz.
4. Set SA trace max hold, then view.

### 4.2.3. Test setup diagram

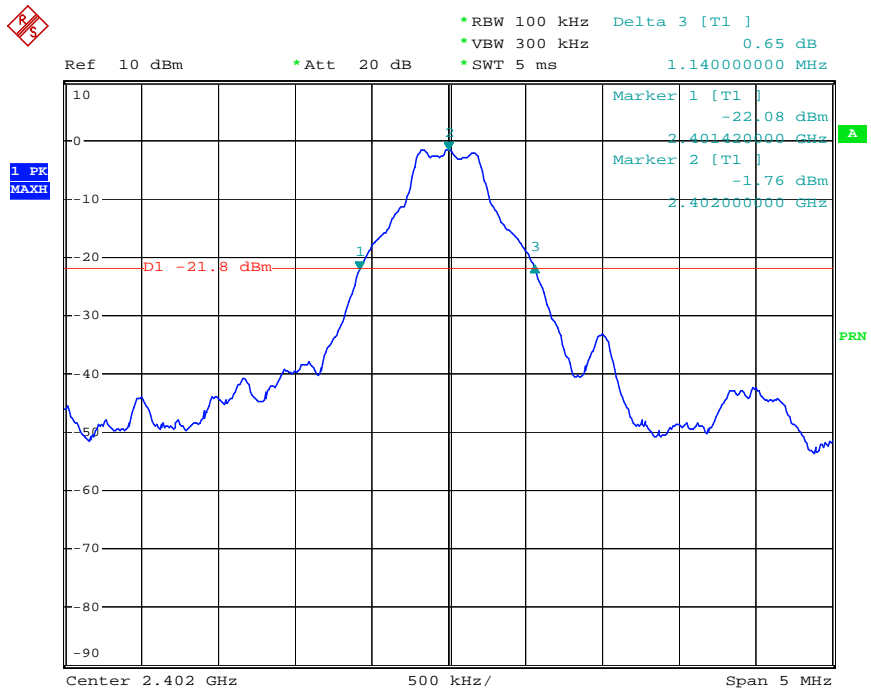


### 4.2.4. Test result

**Pass**

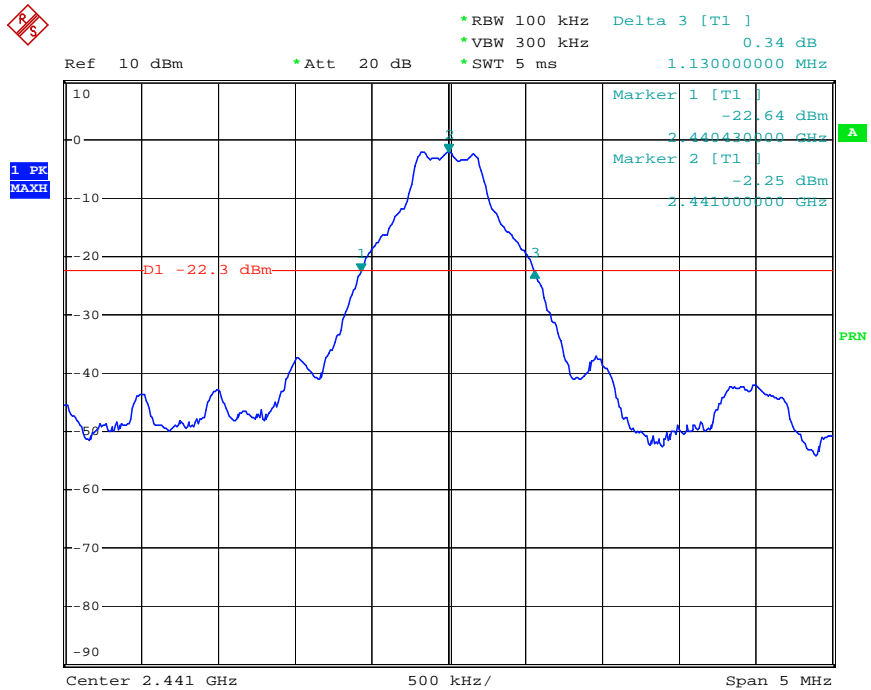
Test Channel	Frequency MHz	20dB Occupied bandwidth MHz
CH1	2402	1.14
CH40	2441	1.13
CH79	2480	1.12

Test CH1:2402MHz



Date: 18.JUN.2008 16:59:05

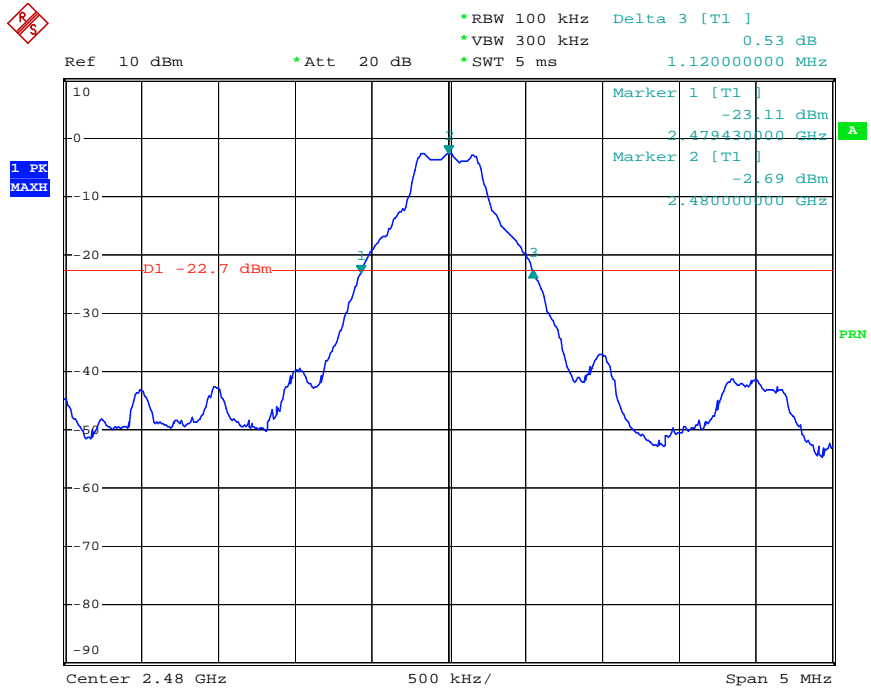
Test CH40:2441MHz



Date: 18.JUN.2008 17:00:59



Test CH79:2480MHz



Date: 18.JUN.2008 17:02:52



### 4.3. Dwell Time

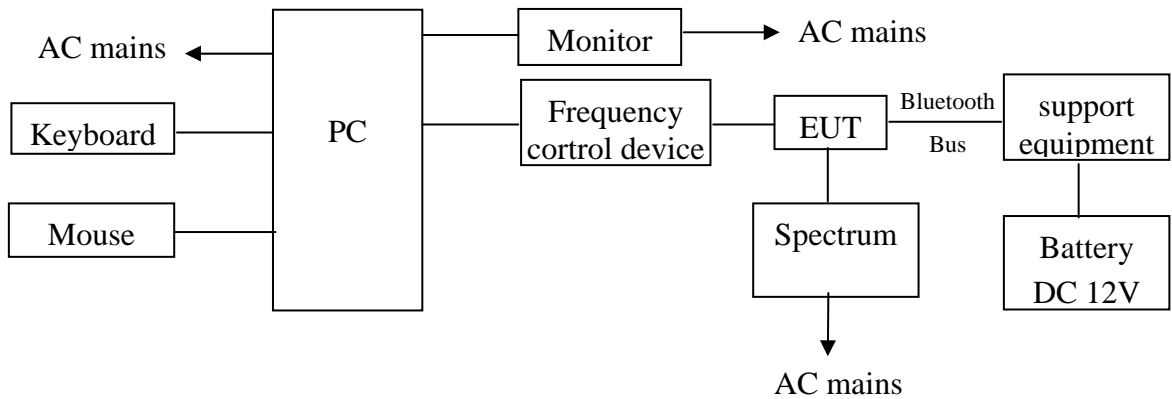
#### 4.3.1. Limit

The maximum dwell time shall be 0.4s within a period of 0.4 seconds multiplied by the number of hopping channels employed..

#### 4.3.2. Test procedure

1. The EUT was placed on a turntable which is 0.8m above ground plane.
2. Connect EUT RF output port to the spectrum analyzer through an RF attenuator.
3. Set the EUT work on the CH1, CH40,CH79 individually.
4. Set SP Center Frequency = Operation frequency, RBW:1KHz;  
VBW:3KHz; Sweep time:1s, SPAN:0Hz
5. Set SP trace max hold, then view.

#### 4.3.3. Test setup diagram



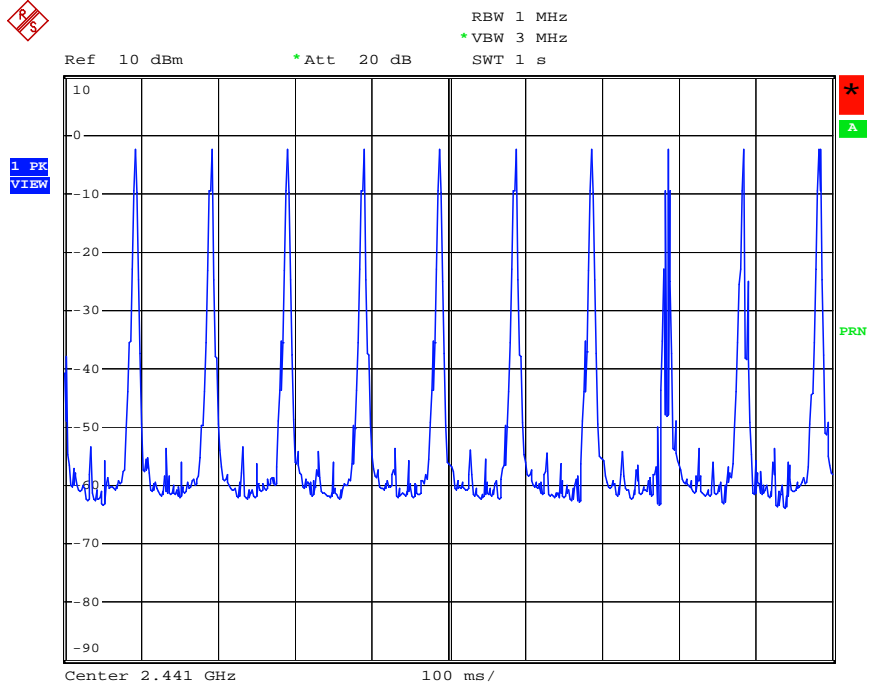
#### 4.3.4. Test result

Test Type	Numbers of emission in 31.6s(79*0.4s)	Single transmission time(ms)	Total transmission time in 31.6s(79*0.4s)	Limit	result
DH1	10*31.6	0.448	141.568ms	400ms	pass
DH3	10*31.6	0.462	145.992ms	400ms	pass
DH5	10*31.6	0.460	145.360ms	400ms	pass

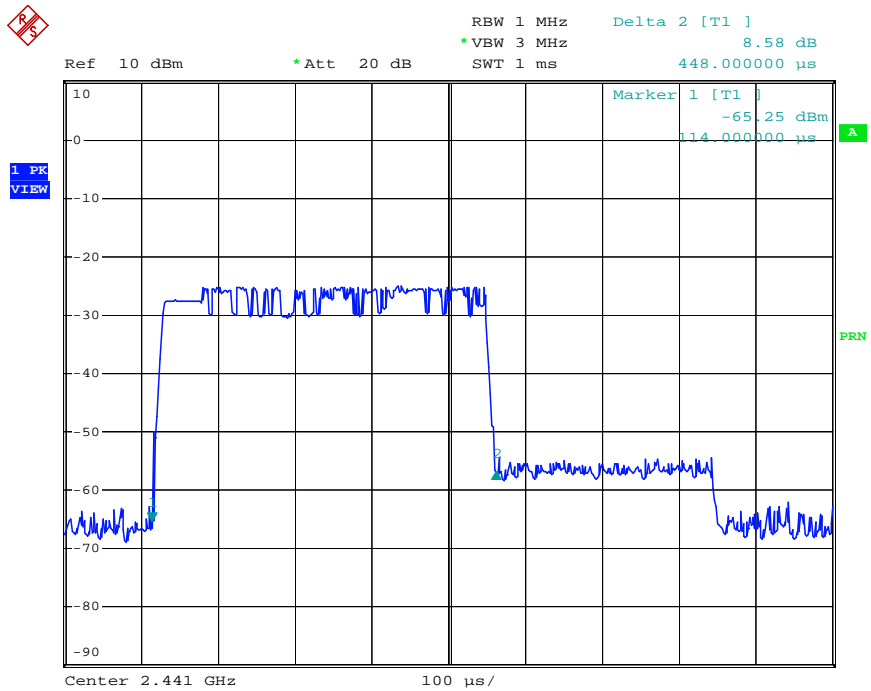
The dwell time is lesser than 0.4s within a period of 0.4 seconds multiplied by the number of hopping channels employed. comply with the standard requirement.

The test plots as following:

DH1:



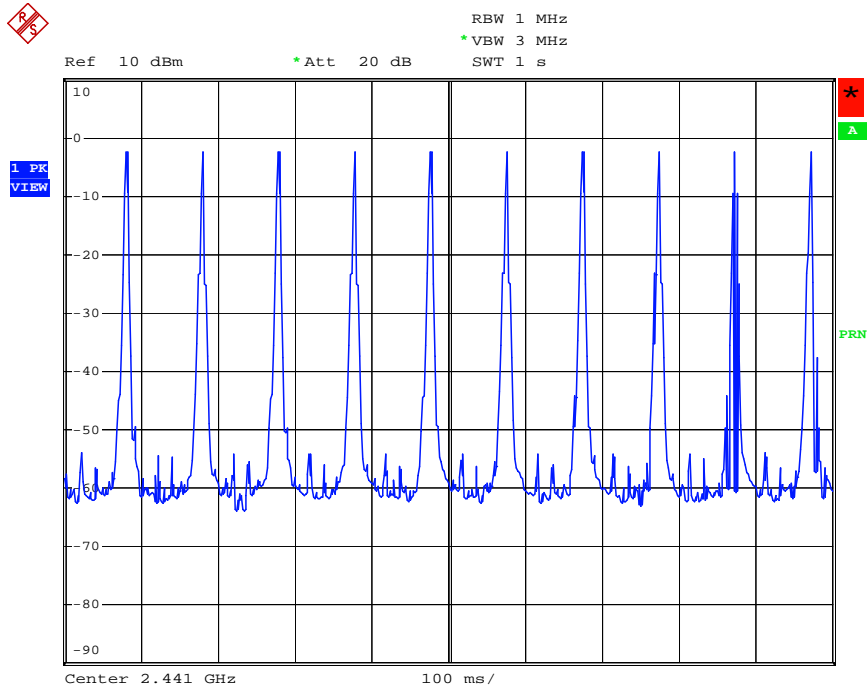
Date: 18.JUN.2008 19:03:25



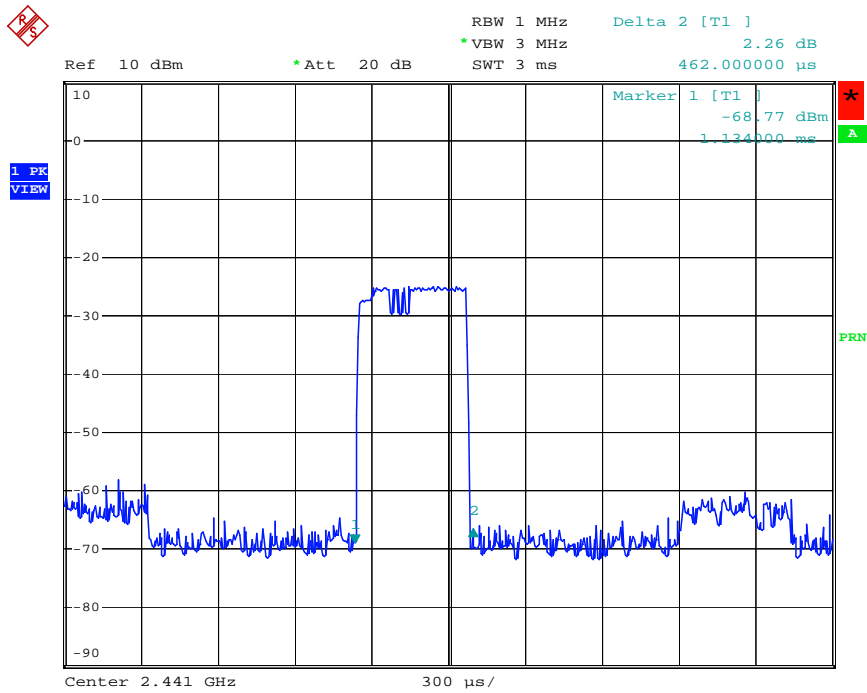
Date: 18.JUN.2008 19:04:37



DH3:



Date: 18.JUN.2008 19:07:22

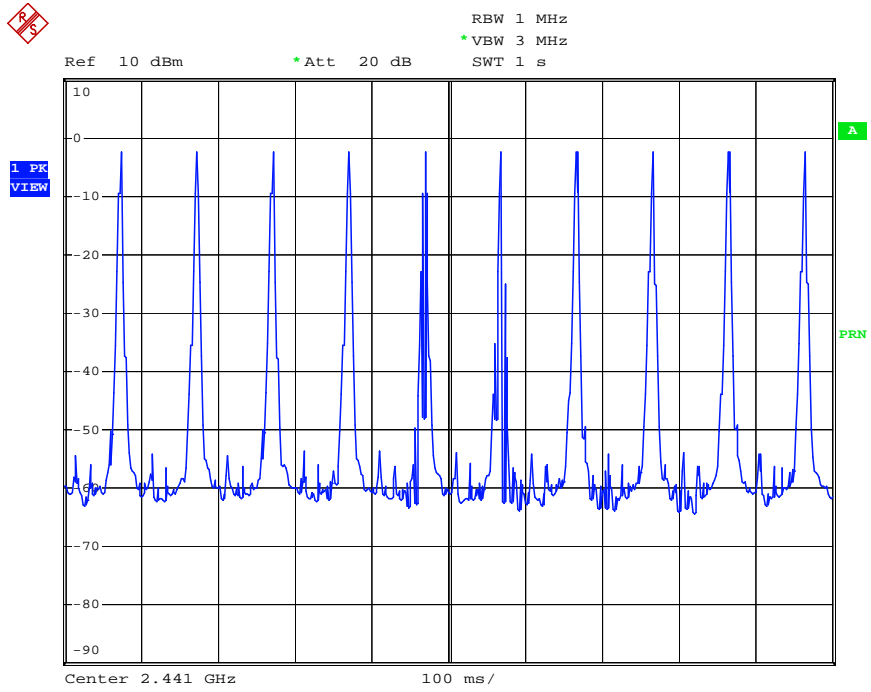


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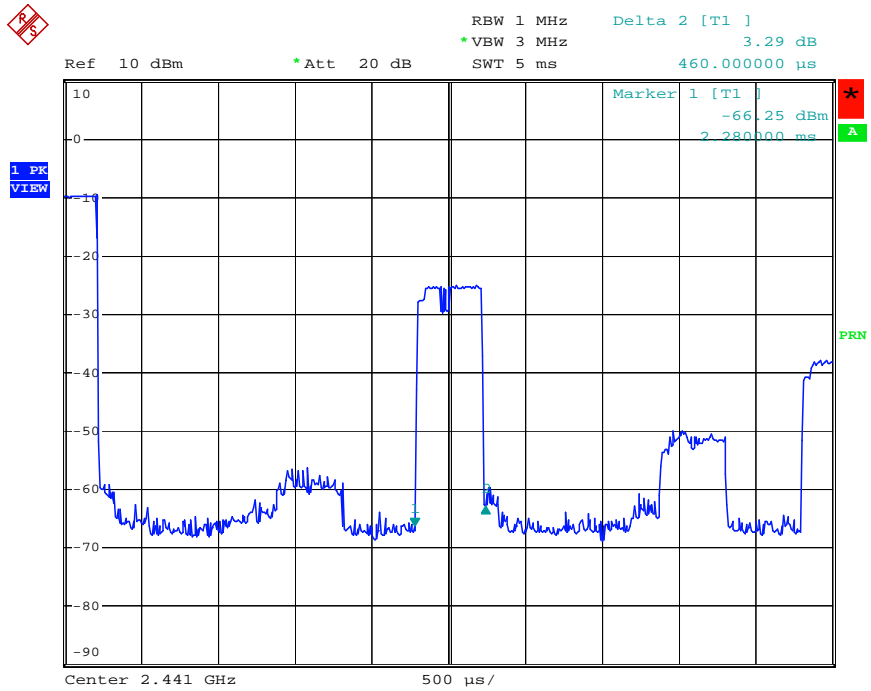




DH5:



Date: 18.JUN.2008 19:09:15



Date: 18.JUN.2008 19:10:15



## 4.4. Adjacent Channel Separation

### 4.4.1. Limit

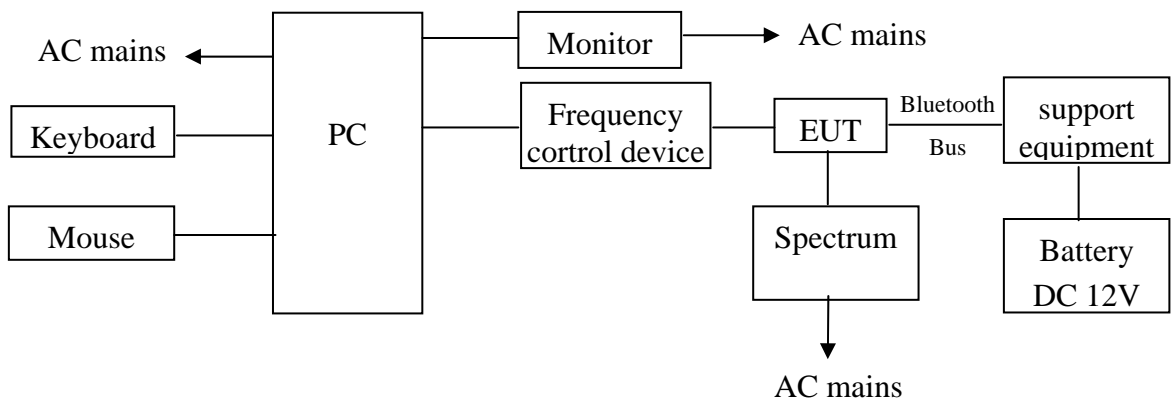
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever is greater.

### 4.4.2. Test procedure

Test was performed at normal test condition and test in the lowest frequency and the middle frequency and the highest frequency.

RBW:100kHz; VBW:300kHz; Sweep time:5ms;

### 4.4.3. Test setup diagram



### 4.4.4. Test result

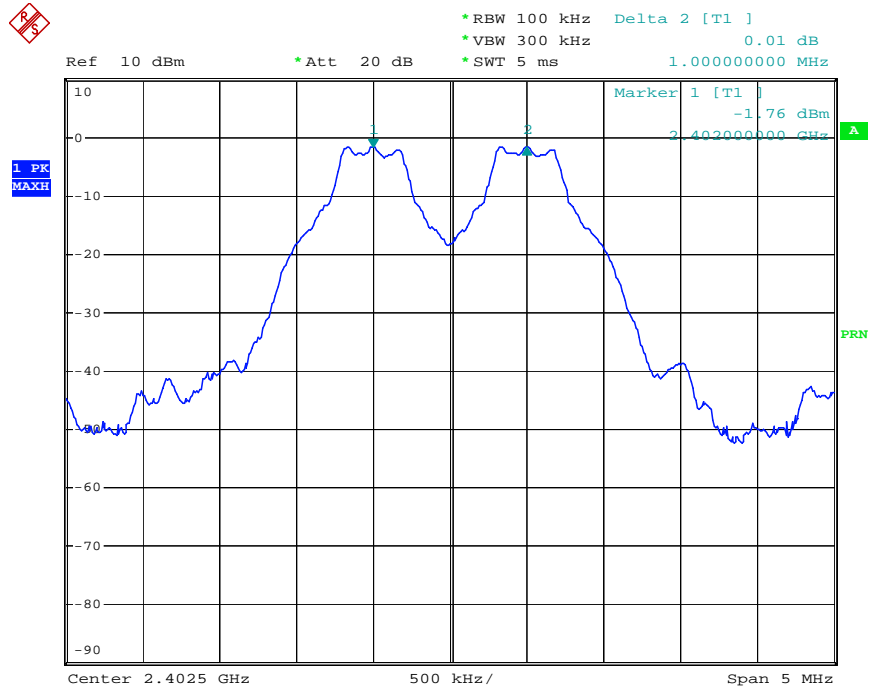
Pass.

Test condition: Temp:25°C ; Humi:55% Test voltage: DC 12V

Test Channel MHz	test frequency MHz	Two Adjacent Channel spacing MHz	Limit kHz
CH1	2402	1.000	≥ 20dB bandwidth
CH2	2403		
CH39	2440	1.000	
CH40	2441	1.000	
CH78	2479		
CH79	2480		

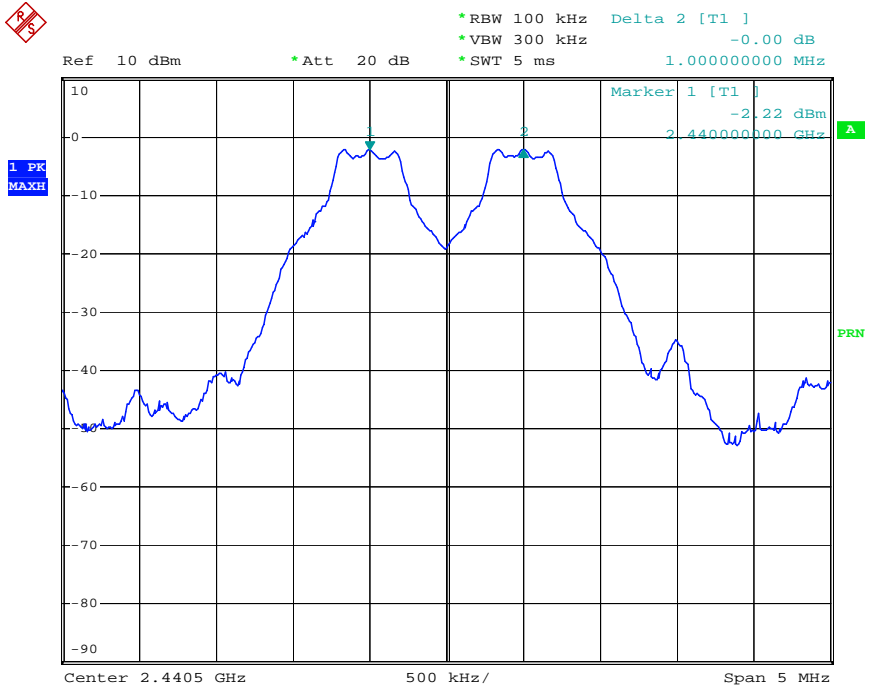
The two adjacent channel spacing is greater than 20dB bandwidth. comply with standard requirement. The test plots as following:

### Test DH1:2402MHz



Date: 18.JUN.2008 16:45:34

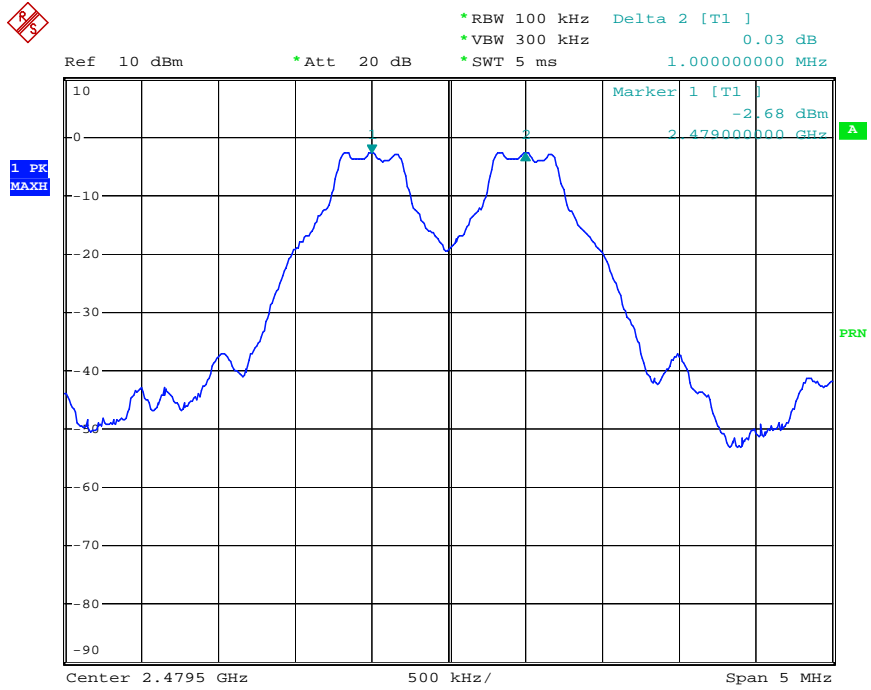
### Test CH40:2441MHz



Date: 18.JUN.2008 16:46:32



Test CH79:2480MHz



Date: 18.JUN.2008 16:47:34



## 4.5. Channel Number

### 4.5.1. Limit

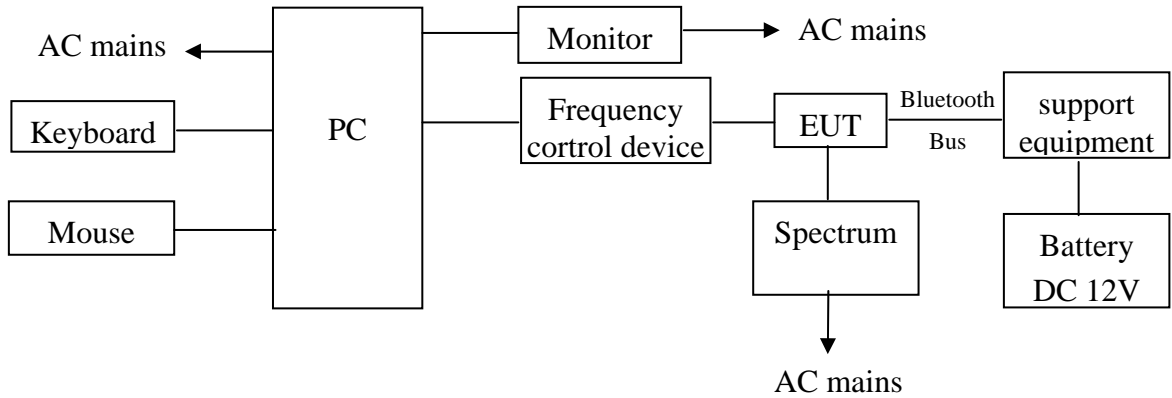
Frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

### 4.5.2. Test procedure

Test was performed at normal test condition

RBW:300kHz; VBW:1MHz; Sweep time: 2.5ms;

### 4.5.3. Test setup diagram

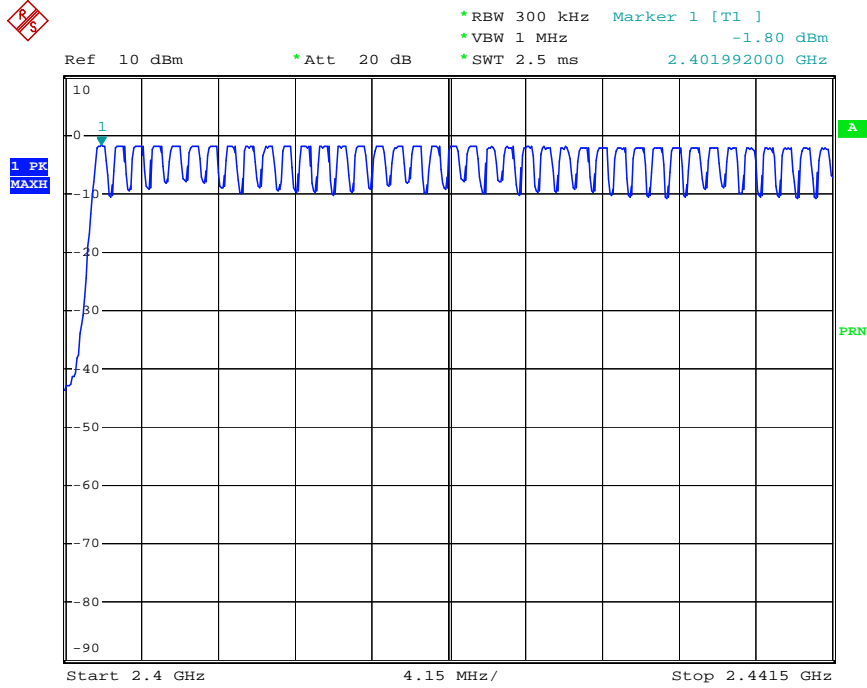


### 4.5.4. Test result

Total channel numbers are 79 .compliance with standard requirement.

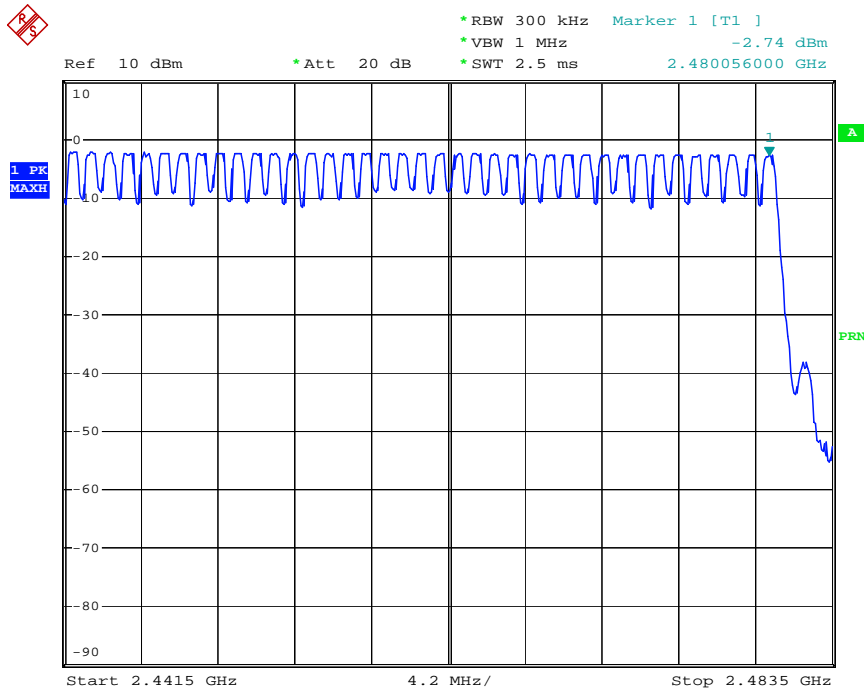
The test plots as following:

### Test Plot 1



Date: 18.JUN.2008 17:08:28

### Test Plot 2



Date: 18.JUN.2008 17:11:14



## 4.6. Radiated Emission

### 4.6.1. Test limits

- 1) FCC part 15C section 15.209
- 2) FCC part 15C section 15.247(d)

### 4.6.2. Test procedure

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. At the frequency band of 30MHz to 1GHz, The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 to 4 m for horizontal and vertical polarizations. The broadband antenna (calibrated by dipole antenna) was used as a receiving antenna. At the frequency band of 1GHz to 25GHz, The measuring antenna moved from 1 to 4 m for horizontal and vertical polarization. The horn antenna was used as a receiving antenna.

The resolution bandwidth and video bandwidth of the test receiver was 120 KHz and 300KHz for Quasi-peak detection at frequency below 1GHz.

The resolution bandwidth and video bandwidth of the test receiver was 1MHz and 1MHz for Peak detection at frequency above 1GHz.

For Average measurement at frequency above 1GHz. The resolution bandwidth of the test receiver was 1MHz ; due to the shortest pulse width T is 116us, according the video bandwidth should not smaller than  $1/T$ , so the video bandwidth is 10Hz.

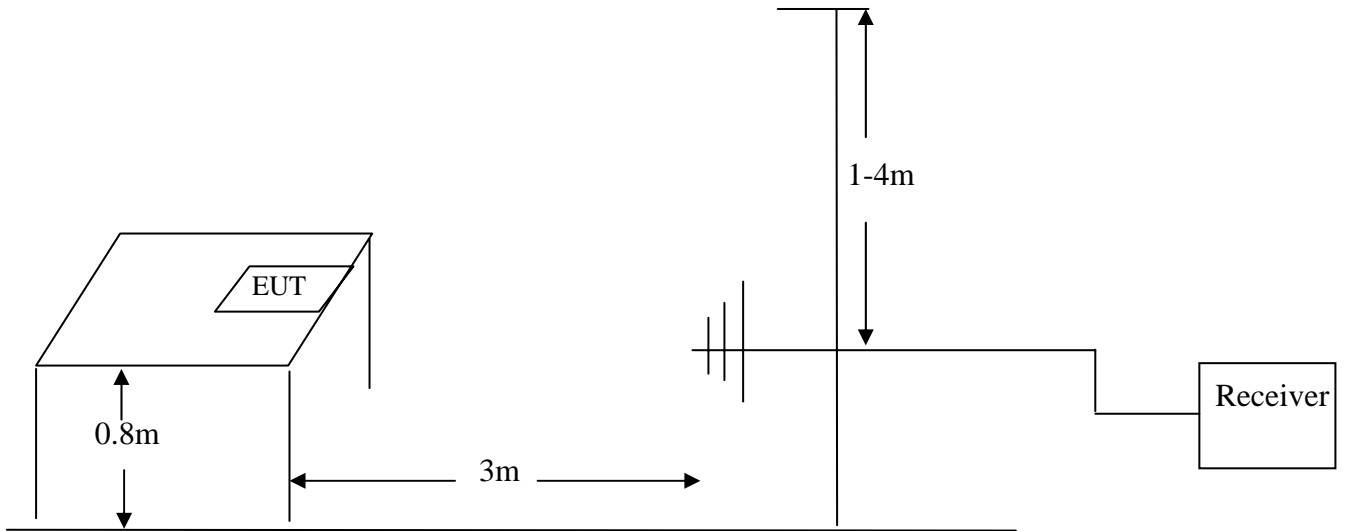
In 18GHz to 24GHz, The EUT was checked by Horn ANT . But the test result is background.

The EUT position(X. Y. Z) were checked and worse case was happened in Y position. So Y position was chose for find measurement.

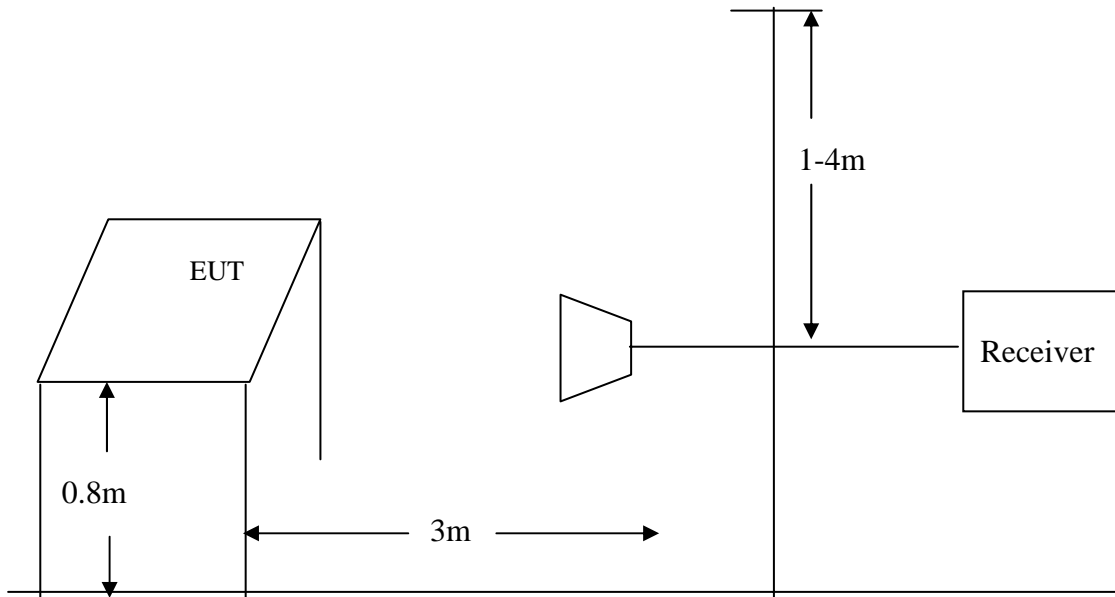
The EUT was tested in Chamber Site.

### 4.6.3 Test Setup Diagram

#### 4.6.3.1. Frequency range: 30MHz-1000MHz



#### 4.6.3.2. Frequency range: 1 GHz -25GHz



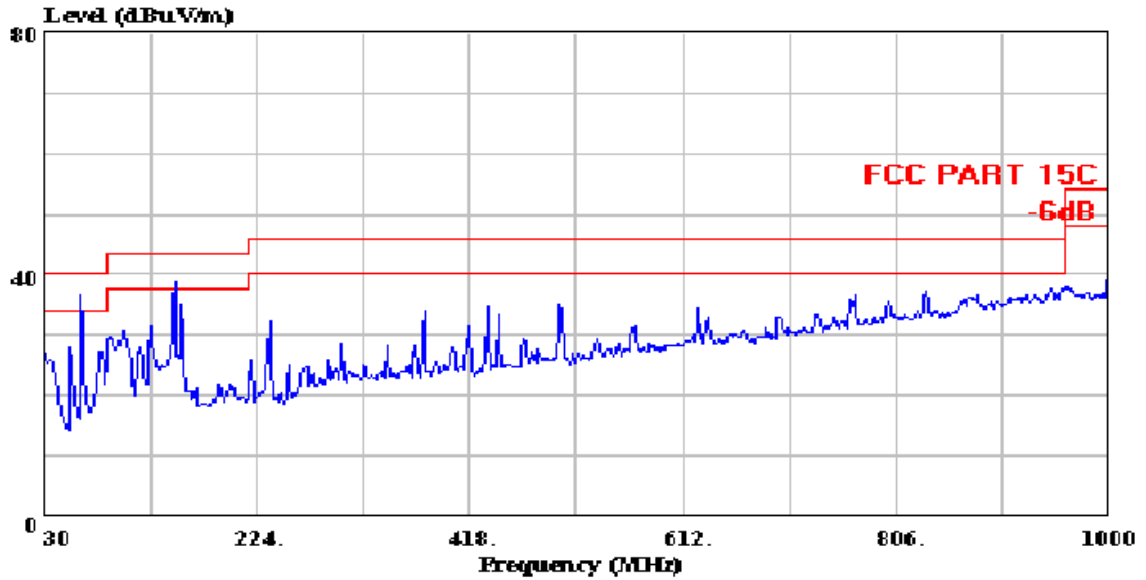


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Fax:0769-85991080  
Http://www.nsko.cn

Data#: 157 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 00:45:13



Site : 966 Chamber  
Condition : FCC PART 15C 3m 3142B HORIZONTAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2402MHz

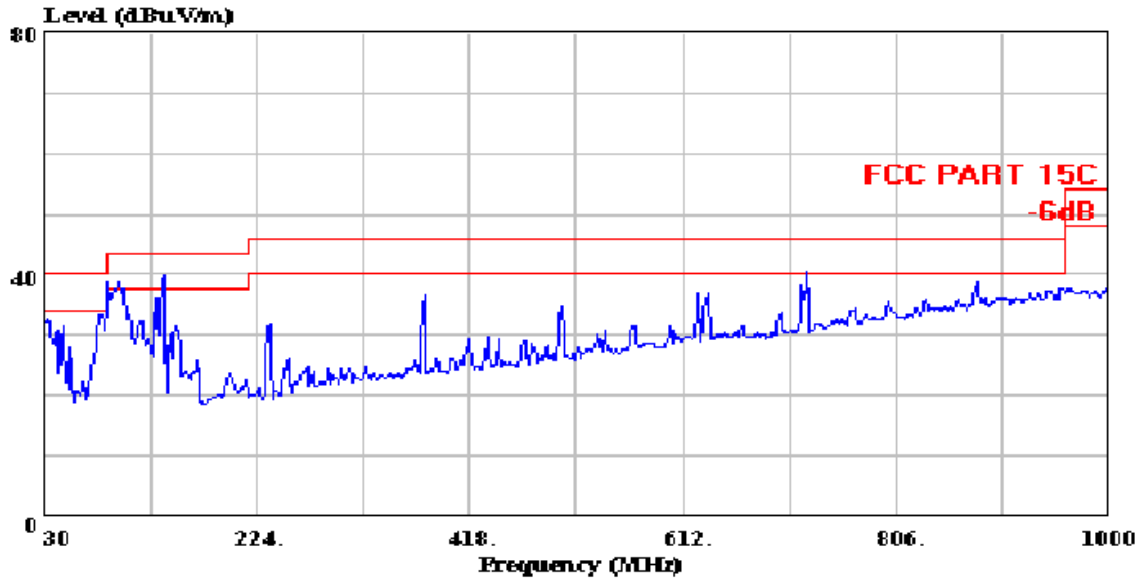


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Fax: 0769-85991080  
Http://www.nsko.cn

Data#: 156 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 00:44:39



Site : 966 Chamber  
Condition : FCC PART 15C 3m 3142B VERTICAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2402MHz

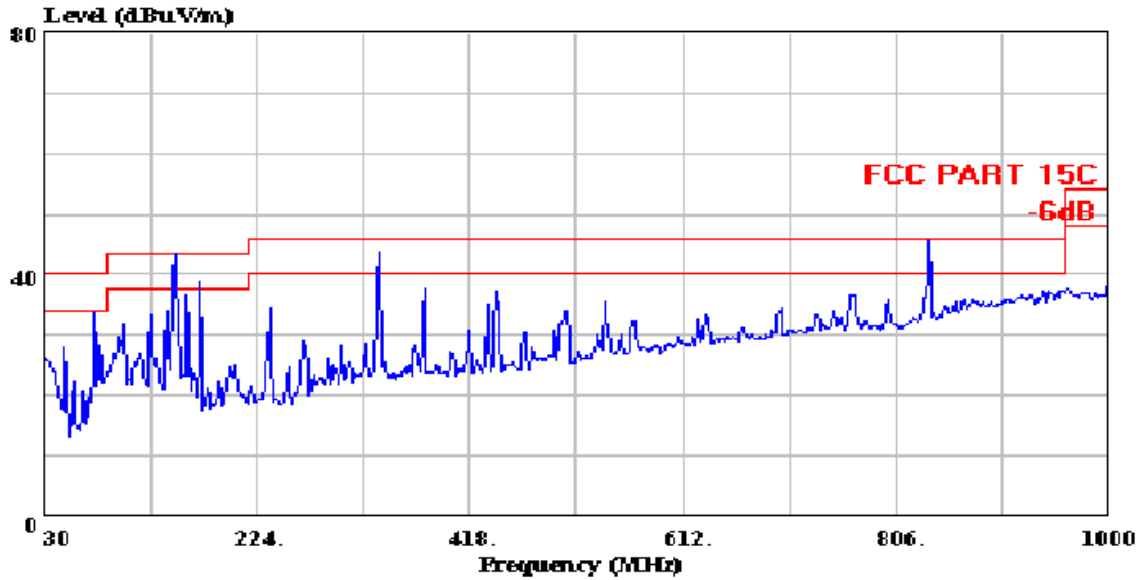


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Data#: 158 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 00:48:11



Site : 966 Chamber  
Condition : FCC PART 15C 3m 3142B HORIZONTAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2441MHz

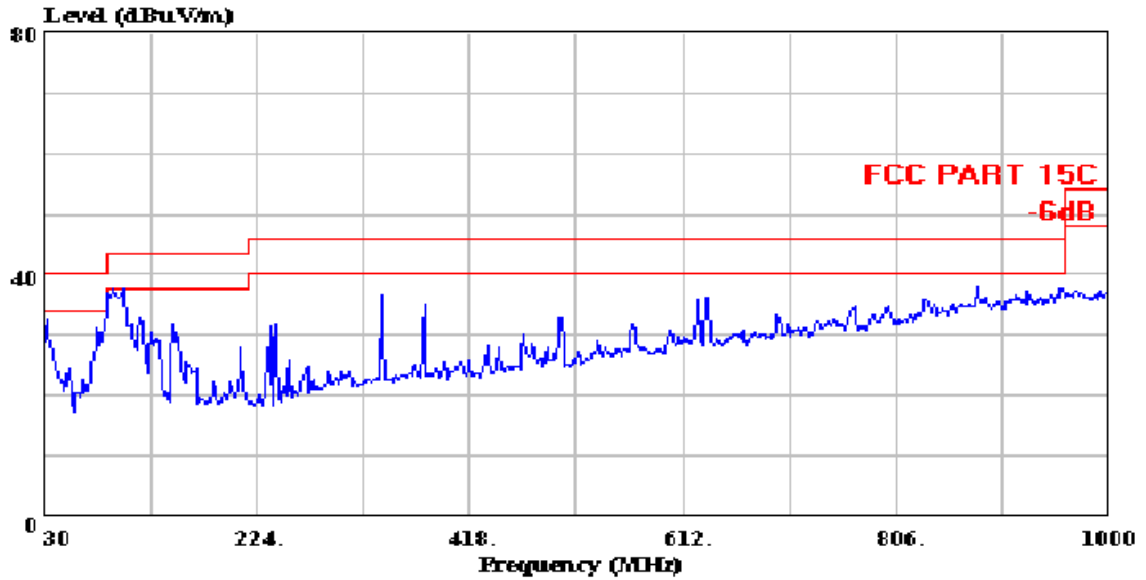


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Data#: 159 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 00:48:51



Site : 966 Chamber  
Condition : FCC PART 15C 3m 3142B VERTICAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2441MHz

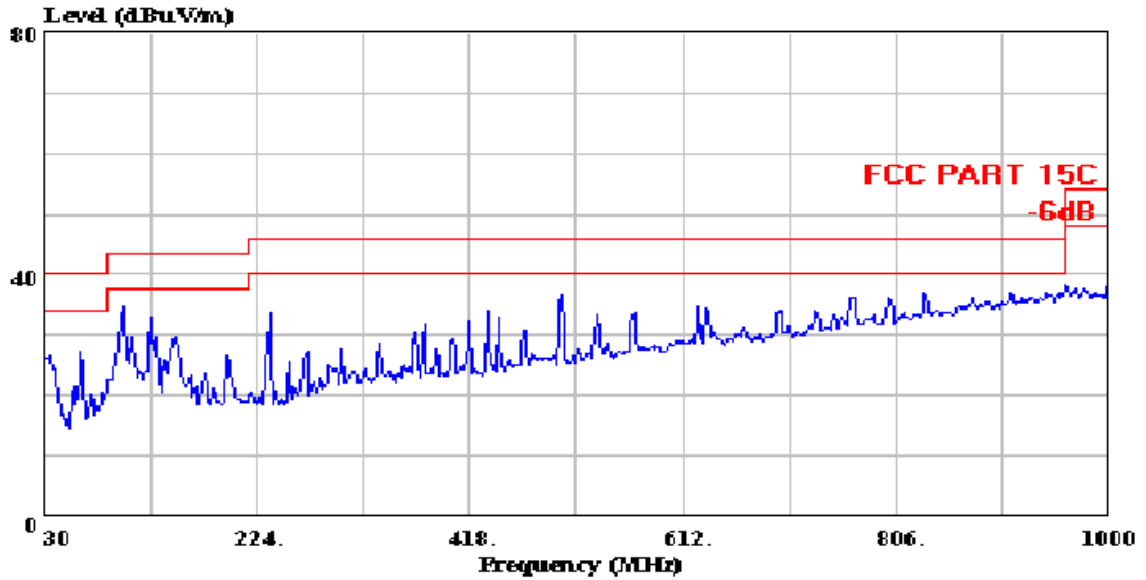


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Data#: 161 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 00:57:34



Site : 966 Chamber  
Condition : FCC PART 15C 3m 3142B HORIZONTAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2480MHz

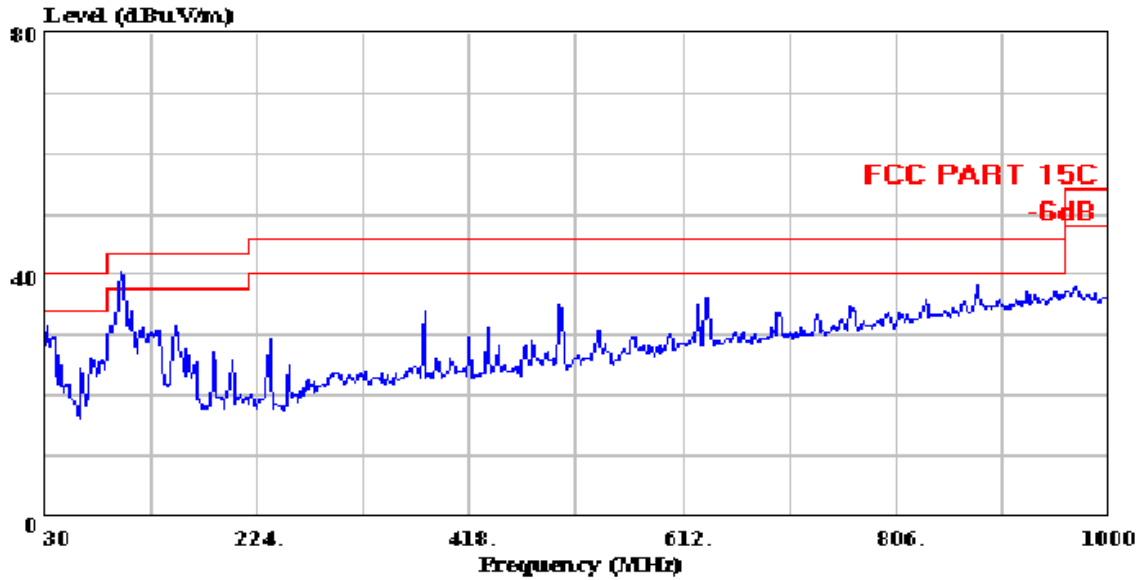


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Data#: 160 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 00:50:53



Site : 966 Chamber  
Condition : FCC PART 15C 3m 3142B VERTICAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2480MHz

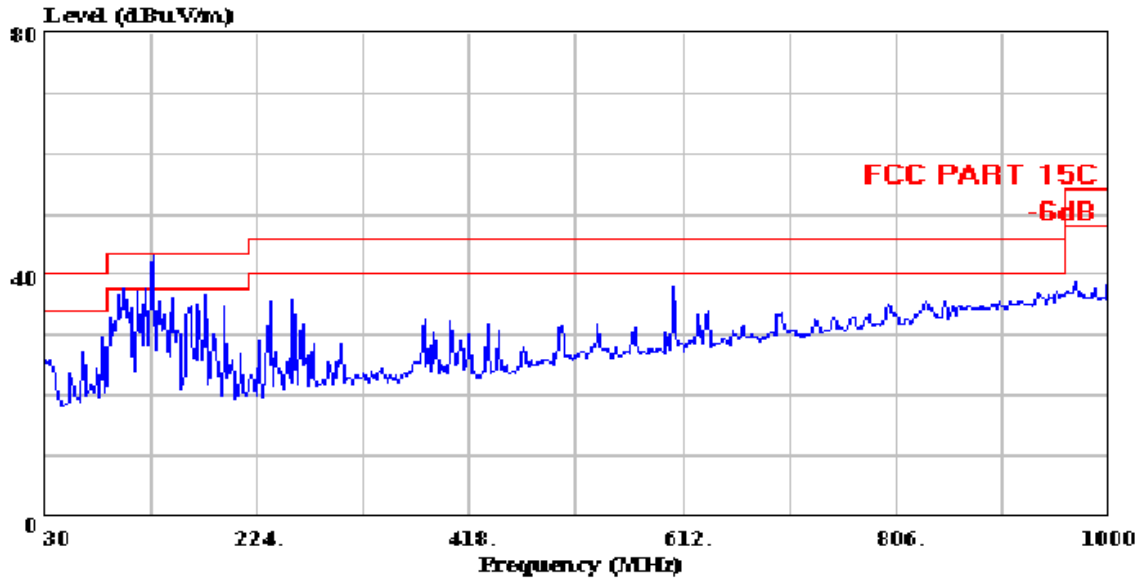


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Data#: 162 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 01:00:24



Site : 966 Chamber  
Condition : FCC PART 15C 3m 3142B HORIZONTAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : Normal operating

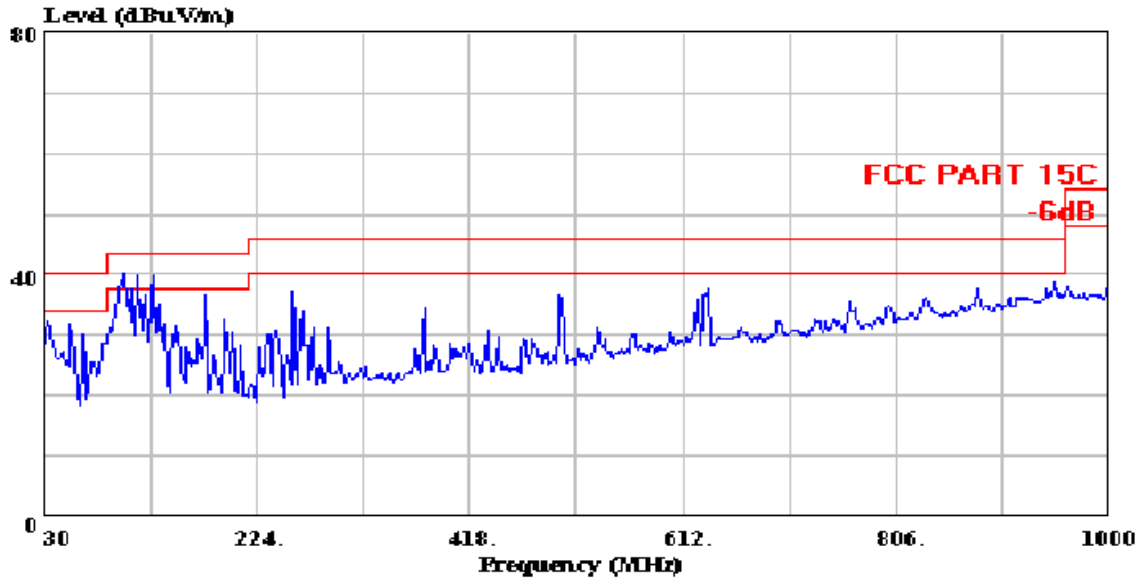


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Data#: 163 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 01:02:44



Site : 966 Chamber  
Condition : FCC PART 15C 3m 3142B VERTICAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : Normal operating



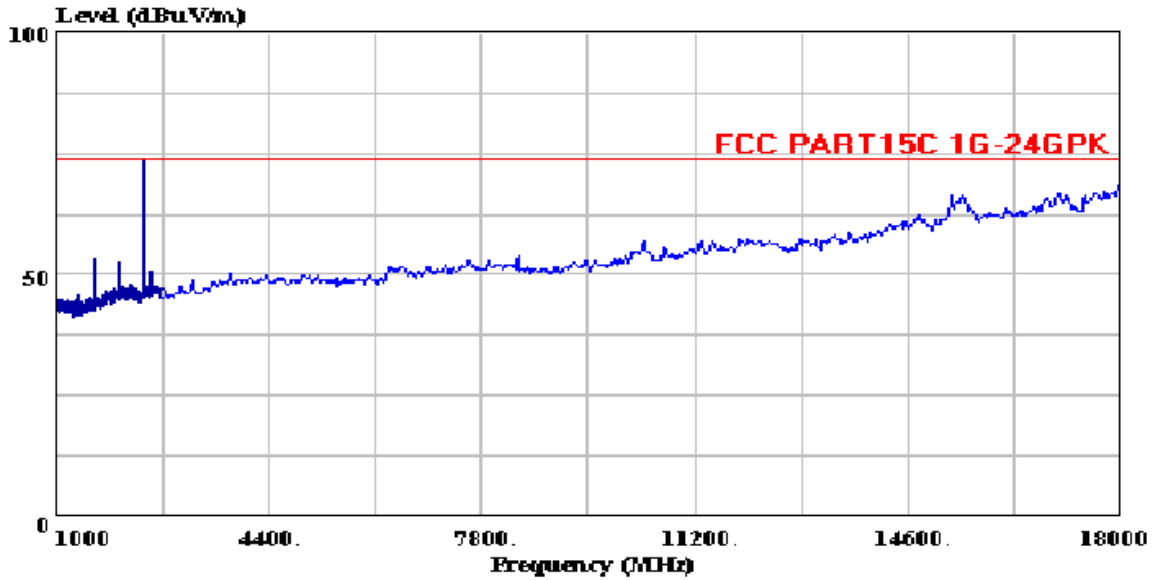


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Data#: 174 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 01:30:05



Trace: 173

Site : 966 Chamber  
Condition : FCC PART15C 1G-24GPK 3m 3117 HORIZONTAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2402

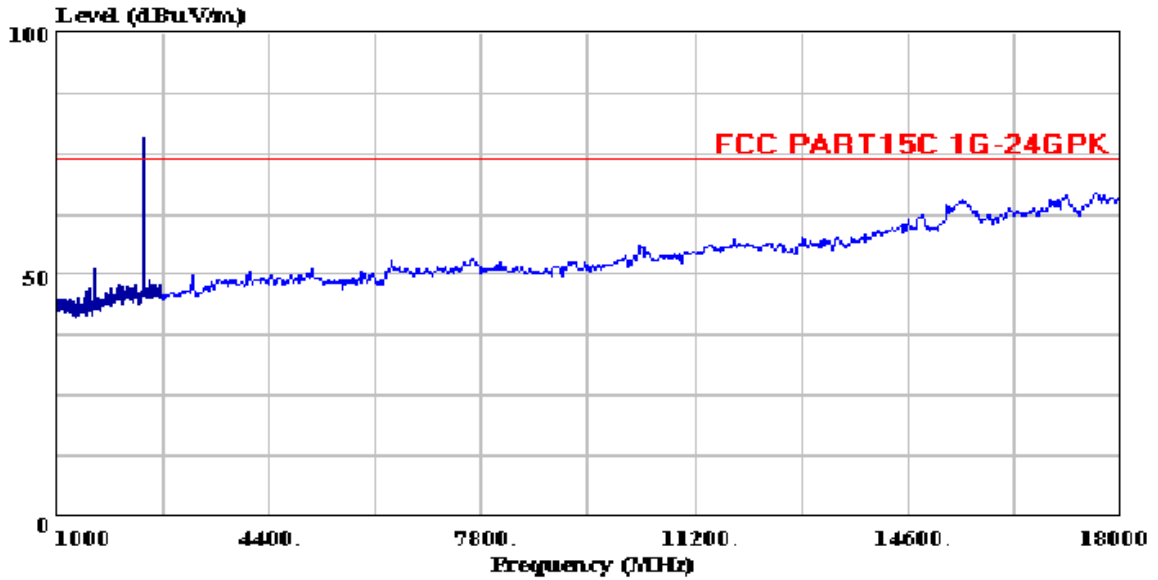


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Data#: 170 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 01:24:14



Trace: 169

Site : 966 Chamber  
Condition : FCC PART15C 1G-24GPK 3m 3117 VERTICAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2402

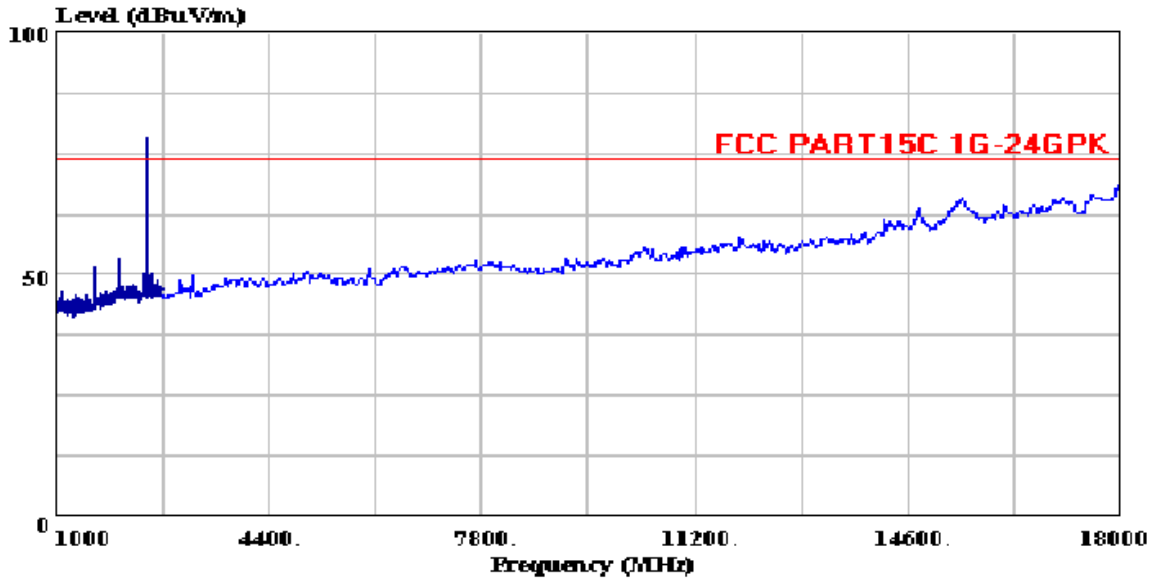


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Data#: 178 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 01:34:47



Trace: 177

Site : 966 Chamber  
Condition : FCC PART15C 1G-24GPK 3m 3117 HORIZONTAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2441

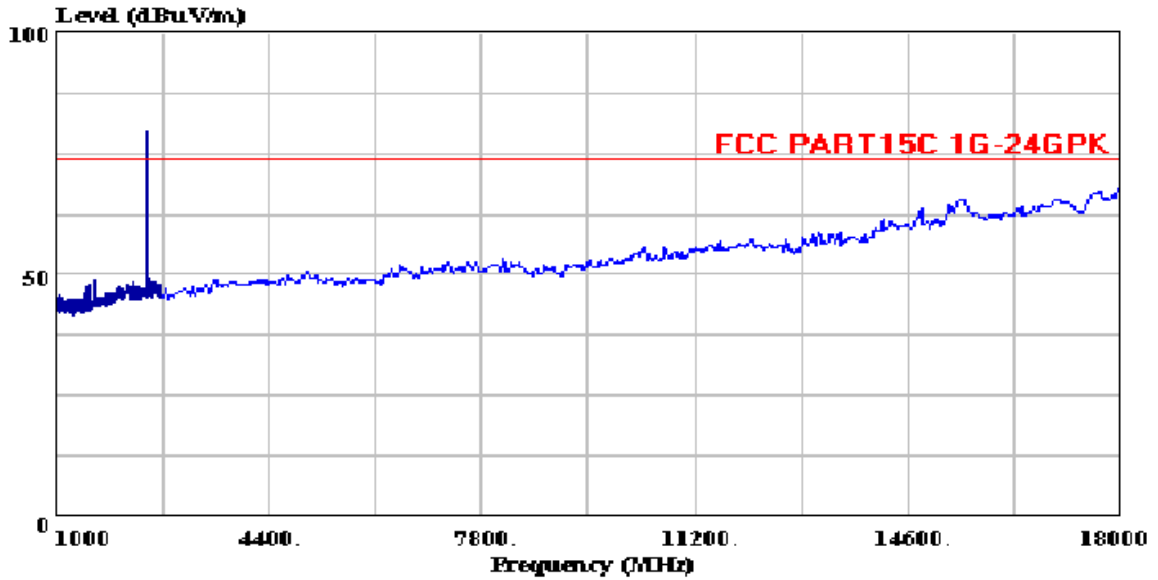


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Data#: 180 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 01:36:51



Trace: 179

Site : 966 Chamber  
Condition : FCC PART15C 1G-24GPK 3m 3117 VERTICAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2441

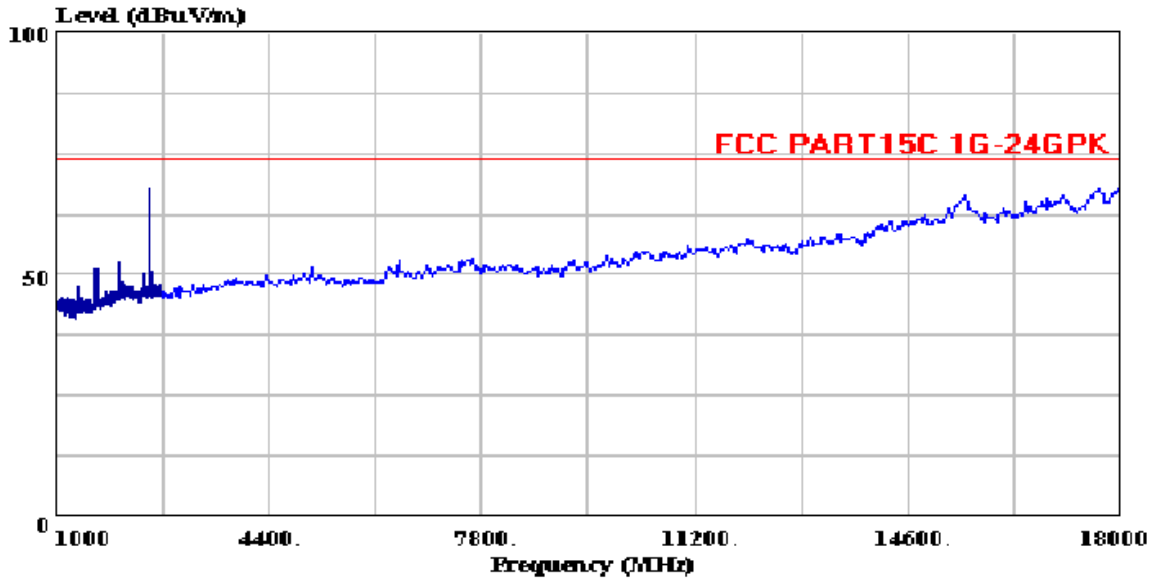


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Data#: 184 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 01:40:10



Trace: 183

Site : 966 Chamber  
Condition : FCC PART15C 1G-24GPK 3m 3117 HORIZONTAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2480

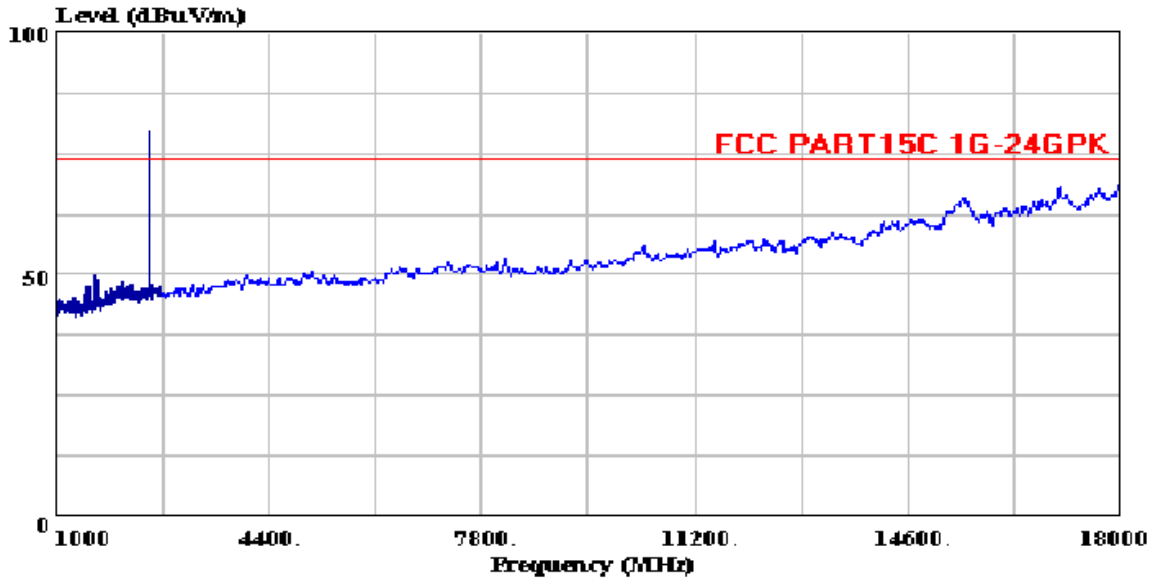


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Data#: 182 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 01:38:40



Trace: 181

Site : 966 Chamber  
Condition : FCC PART15C 1G-24GPK 3m 3117 VERTICAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2480

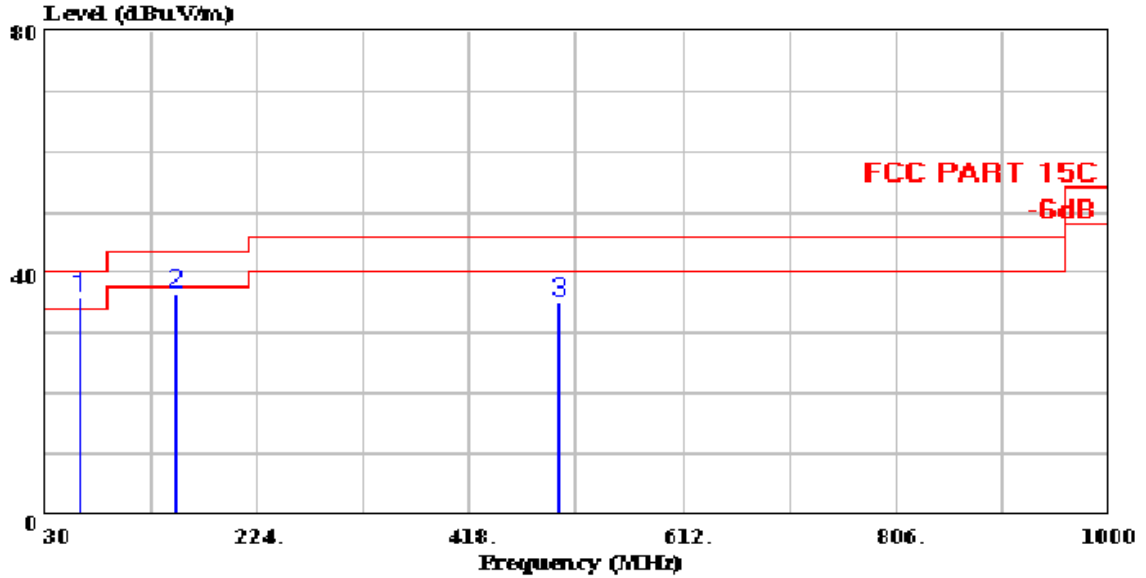


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Data#: 210 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 00:45:13



Site : 966 Chamber  
Condition : FCC PART 15C 3m 3142B HORIZONTAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2402MHz  
: Ant high:2.2m; Table angle:153'

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV/m	dBuV	dB	dB	
1 !	62.980	35.81	-4.19	40.00	26.39	8.25	1.17	QP
2	148.340	36.59	-6.91	43.50	23.26	11.47	1.86	QP
3	499.480	35.22	-10.78	46.00	12.08	19.15	3.99	QP

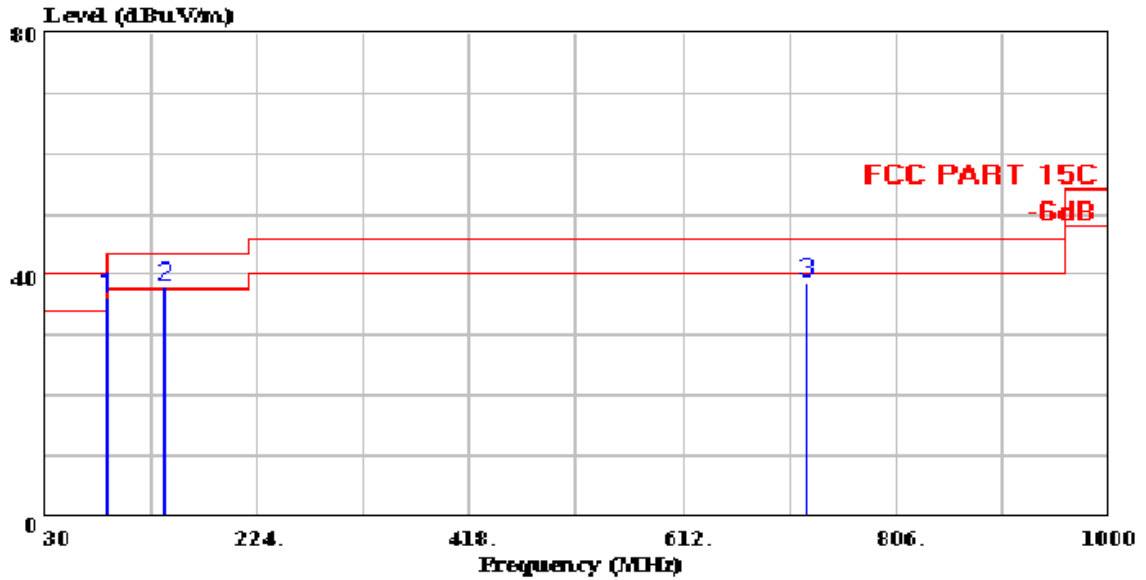


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Data#: 209 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 00:44:39



Site : 966 Chamber  
Condition : FCC PART 15C 3m 3142B VERTICAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2402MHz  
: Ant high:1.6m; Table angle:78'

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV/m	dBuV	dB	dB	
1 !	87.230	36.25	-3.75	40.00	22.21	12.67	1.37	QP
2 !	138.640	38.15	-5.35	43.50	25.74	10.59	1.82	QP
3	725.490	38.73	-7.27	46.00	12.34	21.23	5.16	QP



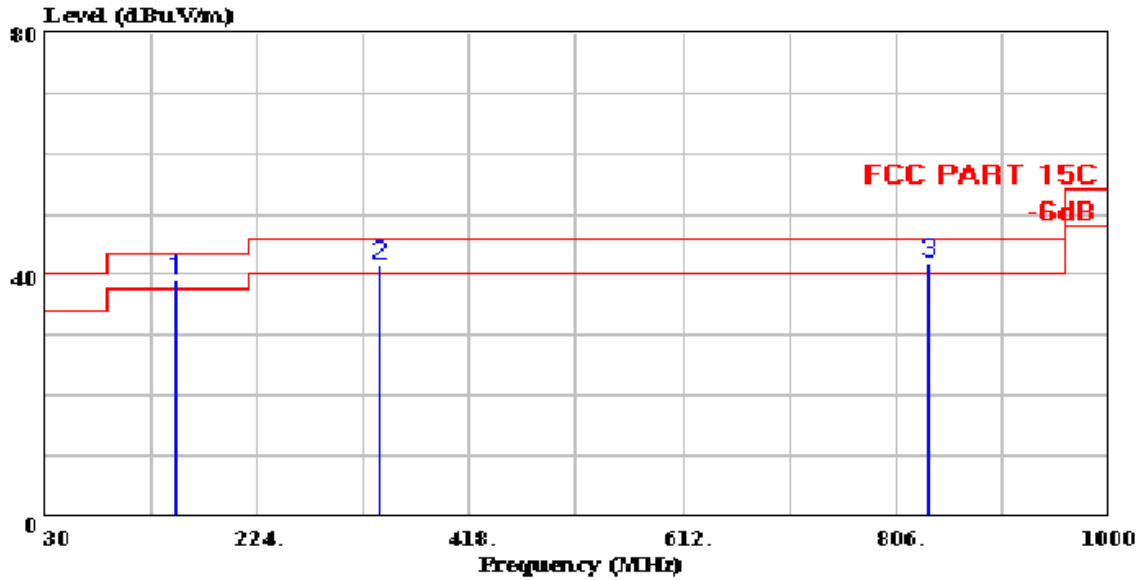


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Data#: 211 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 00:48:11



Site : 966 Chamber  
Condition : FCC PART 15C 3m 3142B HORIZONTAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2441MHz  
: Ant high:2.3m; Table angle:82'

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV/m	dBuV	dB	dB	
1 !	148.340	38.97	-4.53	43.50	25.64	11.47	1.86	QP
2 !	334.580	41.78	-4.22	46.00	21.81	16.94	3.03	QP
3 !	837.040	41.89	-4.11	46.00	12.22	23.55	6.12	QP

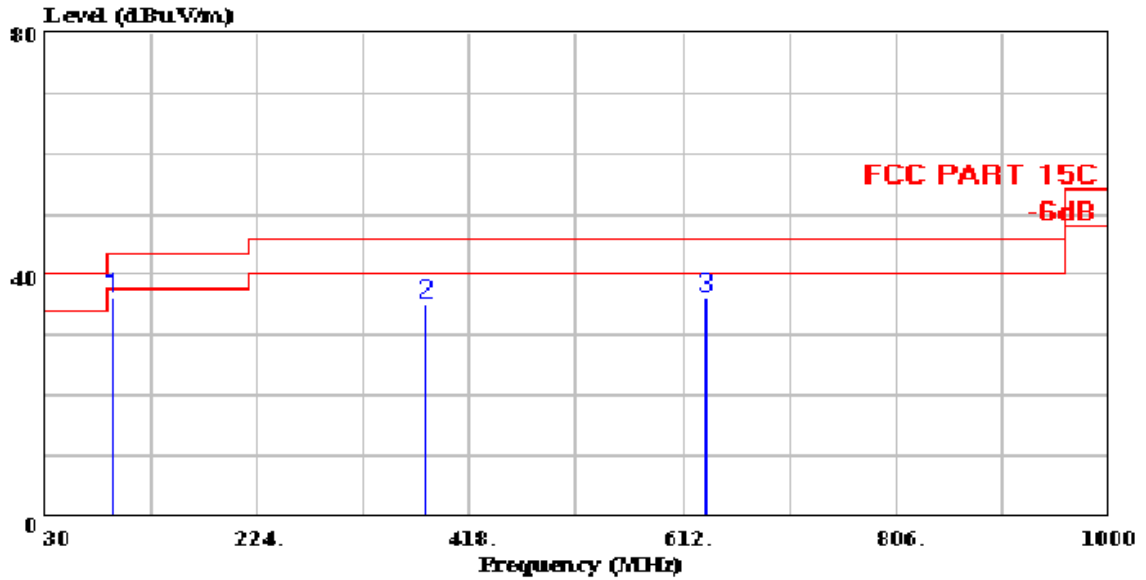


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Data#: 212 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 00:48:51



Site : 966 Chamber  
Condition : FCC PART 15C 3m 3142B VERTICAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2441MHz  
: Ant high:1.5m; Table angle:76'

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV/m	dBuV	dB	dB	
1	92.080	36.25	-7.25	43.50	21.11	13.73	1.41	QP
2	376.290	35.27	-10.73	46.00	14.12	17.89	3.26	QP
3	633.340	36.38	-9.62	46.00	10.78	21.04	4.56	QP

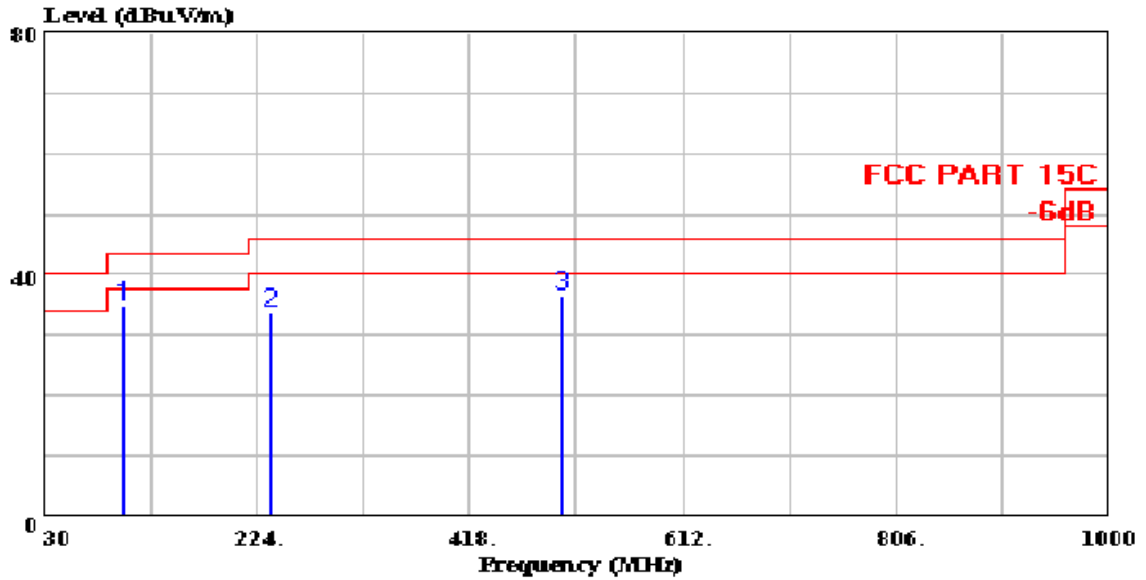


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Data#: 214 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 00:57:34



Site : 966 Chamber  
Condition : FCC PART 15C 3m 3142B HORIZONTAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2480MHz  
: Ant high:2.4m; Table angle:166'

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV/m	dBuV	dB	dB	
1	101.780	34.64	-8.86	43.50	19.14	14.00	1.50	QP
2	235.640	33.78	-12.22	46.00	18.37	12.92	2.49	QP
3	502.390	36.75	-9.25	46.00	13.59	19.19	3.97	QP

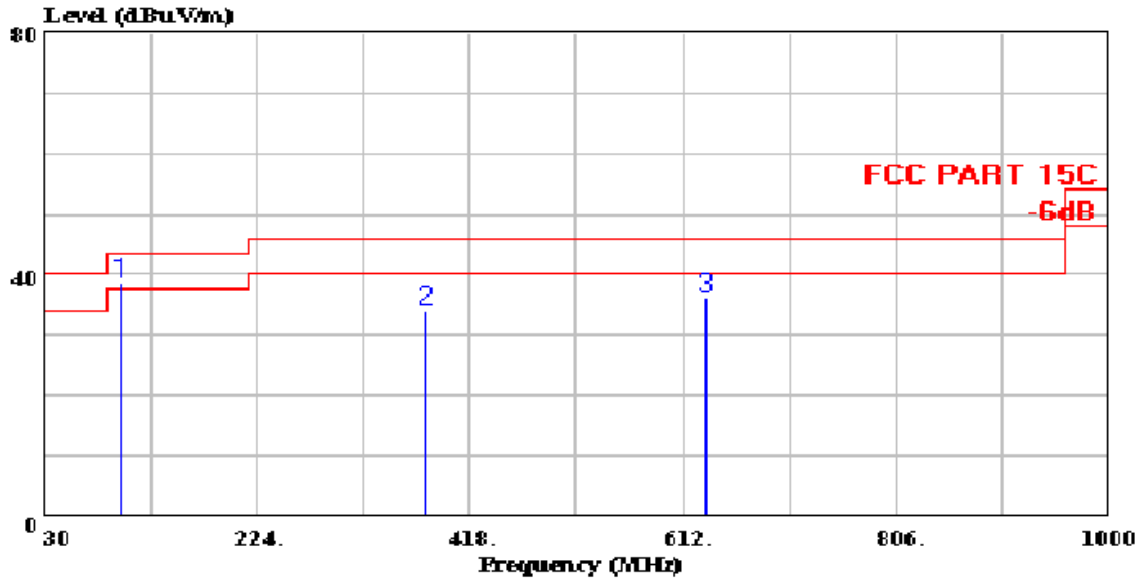


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Data#: 213 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 00:50:53



Site : 966 Chamber  
Condition : FCC PART 15C 3m 3142B VERTICAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2480MHz  
: Ant high:1.8m; Table angle:69'

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	Remark
1 !	99.840	38.57	-4.93	43.50	22.88	14.20	1.49	QP
2	376.290	34.02	-11.98	46.00	12.87	17.89	3.26	QP
3	633.340	36.40	-9.60	46.00	10.80	21.04	4.56	QP

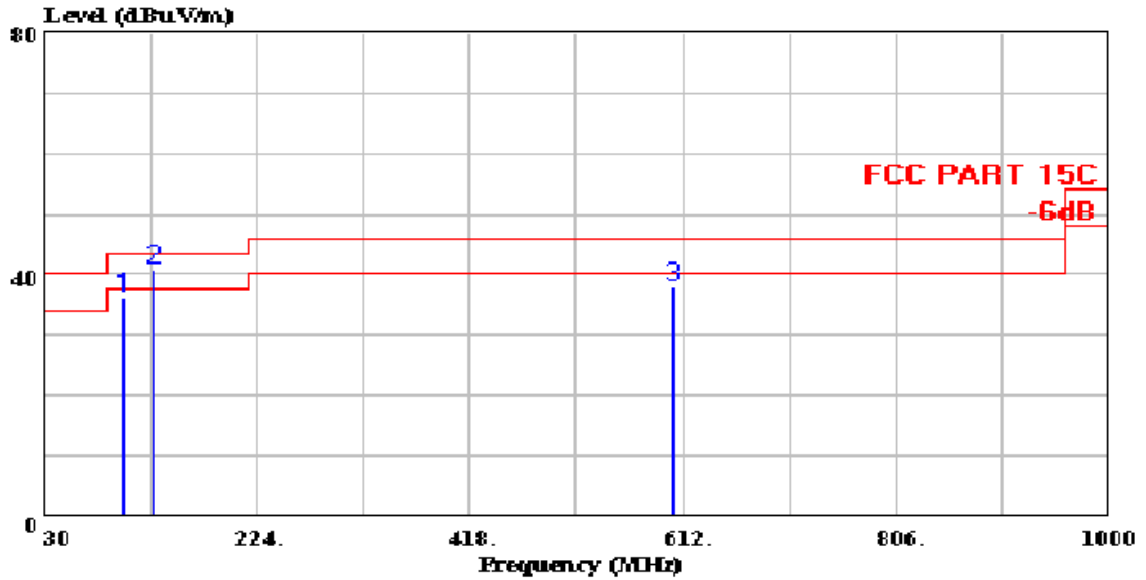


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Data#: 215 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 01:00:24



Site : 966 Chamber  
Condition : FCC PART 15C 3m 3142B HORIZONTAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : Normal operating  
: Ant high:2.6m; Table angle:181'

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	Remark
1	101.780	36.35	-7.15	43.50	20.85	14.00	1.50	QP
2 !	128.940	41.01	-2.49	43.50	28.79	10.47	1.75	QP
3	604.240	38.02	-7.98	46.00	12.71	20.81	4.50	QP

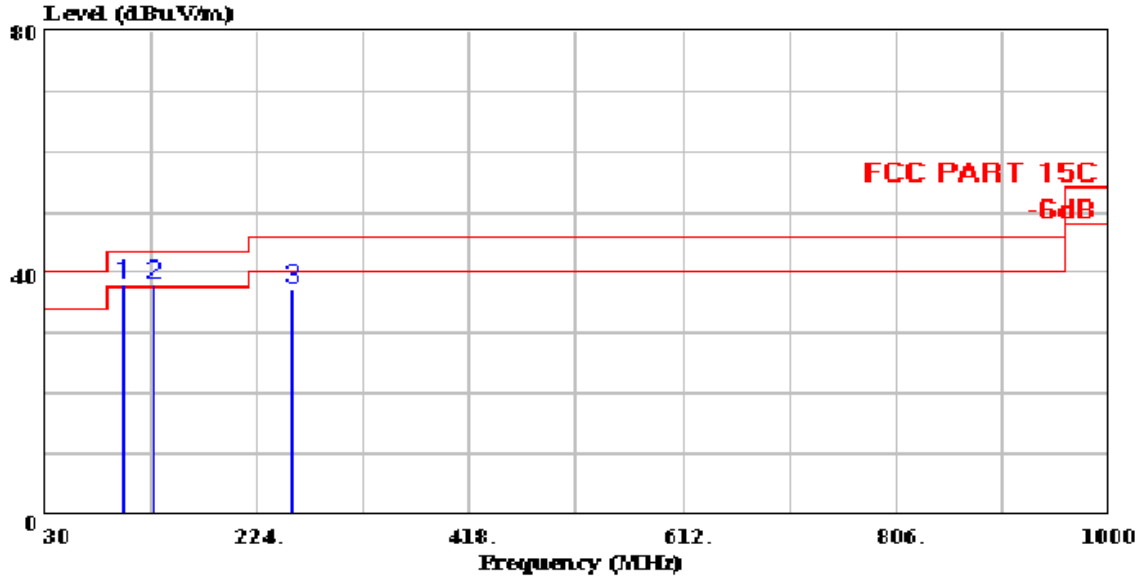


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Data#: 216 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 01:02:44



Site : 966 Chamber  
Condition : FCC PART 15C 3m 3142B VERTICAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : Normal operating  
: Ant high:1.4m; Table angle:48'

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV/m	dBuV	dB	dB	
1 !	101.780	38.15	-5.35	43.50	22.65	14.00	1.50	QP
2 !	128.940	38.02	-5.48	43.50	25.80	10.47	1.75	QP
3	256.980	37.47	-8.53	46.00	21.56	13.34	2.57	QP

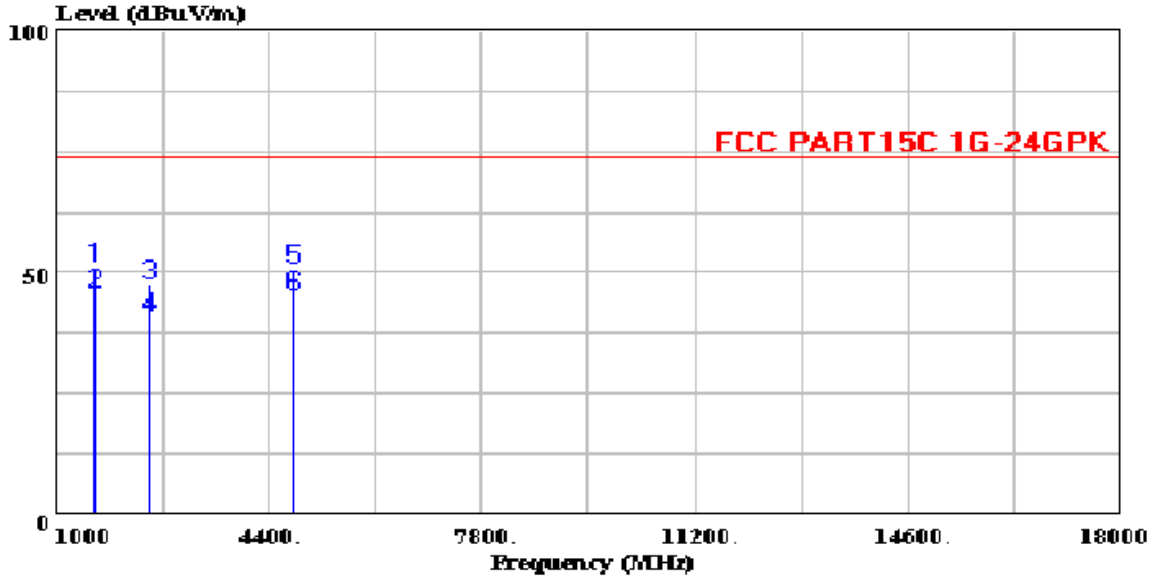


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Data#: 217 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 01:25:57



Site : 966 Chamber  
Condition : FCC PART15C 1G-24GPK 3m 3117 HORIZONTAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2402MHz

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV/m	dBuV	dB	dB	
1	1603.120	51.18	-22.82	74.00	20.69	28.33	2.16	Peak
2	1603.120	45.67	-8.33	54.00	15.18	28.33	2.16	Average
3	2483.500	47.35	-26.65	74.00	13.54	31.58	2.23	Peak
4	2483.500	40.62	-13.38	54.00	6.81	31.58	2.23	Average
5	4778.840	50.76	-23.24	74.00	13.82	34.57	2.37	Peak
6	4778.840	45.23	-8.77	54.00	8.29	34.57	2.37	Average

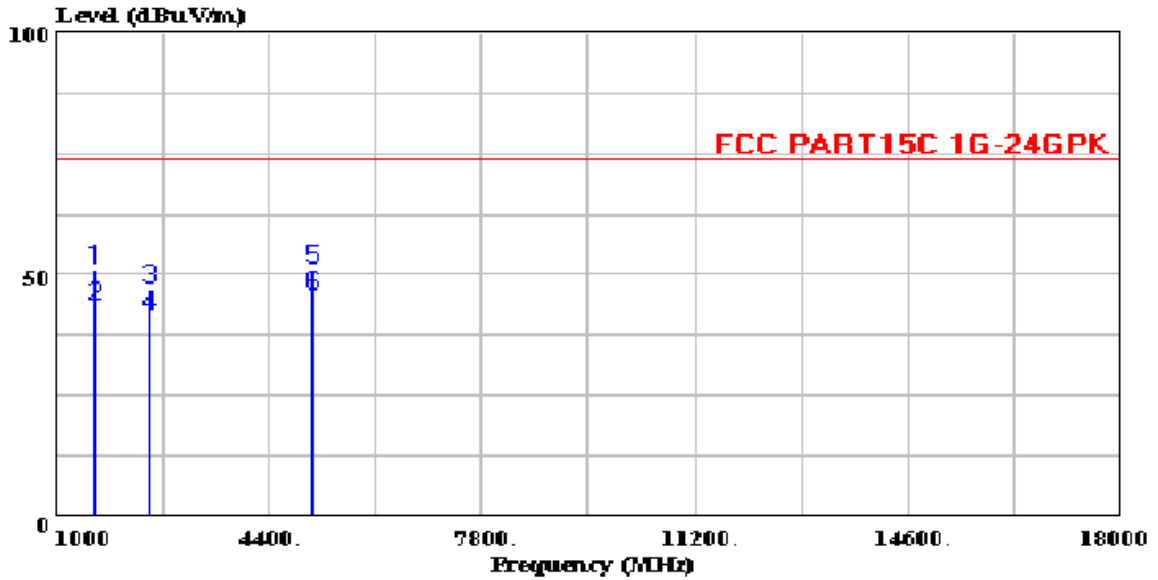


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Data#: 218 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 01:30:26



Site : 966 Chamber  
Condition : FCC PART15C 1G-24GPK 3m 3117 VERTICAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2402MHz

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV/m	dBuV	dB	dB	
1	1603.120	50.97	-23.03	74.00	20.48	28.33	2.16	Peak
2	1603.120	43.61	-10.39	54.00	13.12	28.33	2.16	Average
3	2483.500	47.20	-26.80	74.00	13.39	31.58	2.23	Peak
4	2483.500	41.60	-12.40	54.00	7.79	31.58	2.23	Average
5	5085.240	51.04	-22.96	74.00	13.84	34.81	2.39	Peak
6	5085.240	45.66	-8.34	54.00	8.46	34.81	2.39	Average



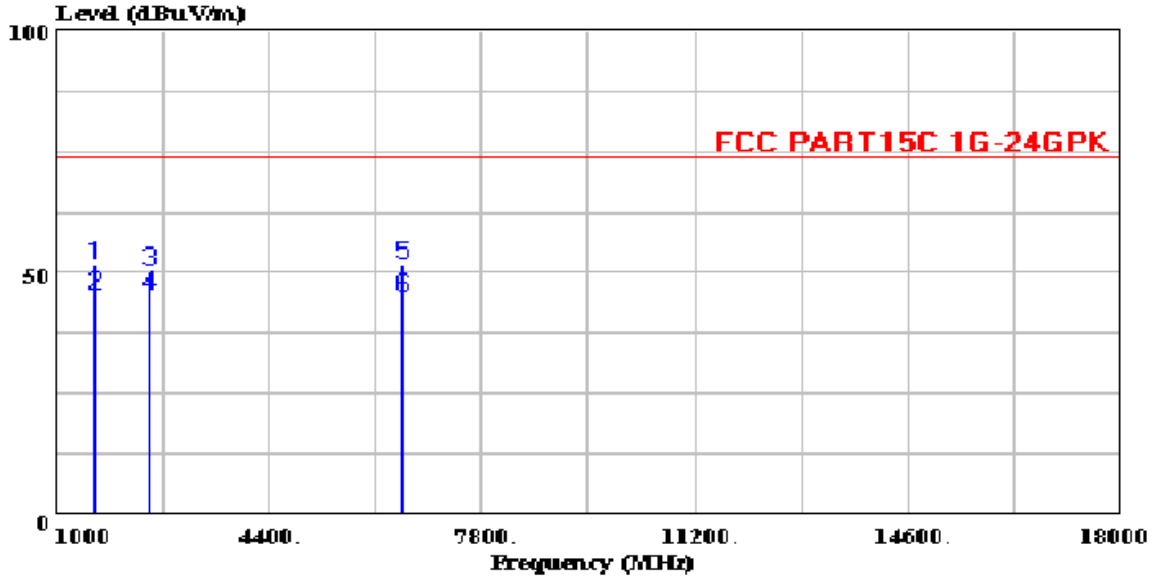


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Fax:0769-85991080  
Http://www.nscn.cn

Data#: 219 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 01:34:23



Site : 966 Chamber  
Condition : FCC PART15C 1G-24GPK 3m 3117 HORIZONTAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2441MHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	1594.720	51.56	-22.44	74.00	20.98	28.42	2.16	Peak
2	1594.720	45.12	-8.88	54.00	14.63	28.33	2.16	Average
3	2483.500	50.40	-23.60	74.00	16.56	31.61	2.23	Peak
4	2483.500	45.12	-8.88	54.00	11.31	31.58	2.23	Average
5	6540.640	51.57	-22.43	74.00	12.46	36.63	2.48	Peak
6	6540.640	44.82	-9.18	54.00	5.71	36.63	2.48	Average

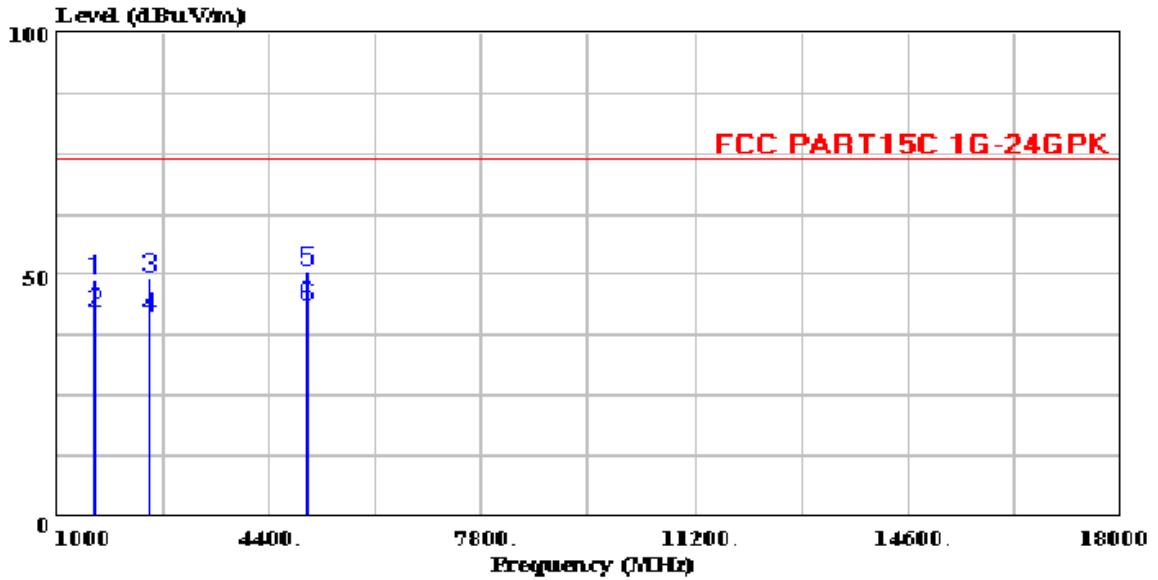


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Http://www.nasco.cn

Data#: 220 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 01:36:31



Site : 966 Chamber  
Condition : FCC PART15C 1G-24GPK 3m 3117 VERTICAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2441MHz

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV/m	dBuV	dB	dB	
1	1603.120	48.86	-25.14	74.00	18.22	28.48	2.16	Peak
2	1603.120	42.10	-11.90	54.00	11.61	28.33	2.16	Average
3	2498.560	49.25	-24.75	74.00	15.42	31.60	2.23	Peak
4	2498.560	41.28	-12.72	54.00	7.45	31.60	2.23	Average
5	5008.640	50.56	-23.44	74.00	20.81	27.61	2.14	Peak
6	5008.640	43.36	-10.64	54.00	6.27	34.70	2.39	Average

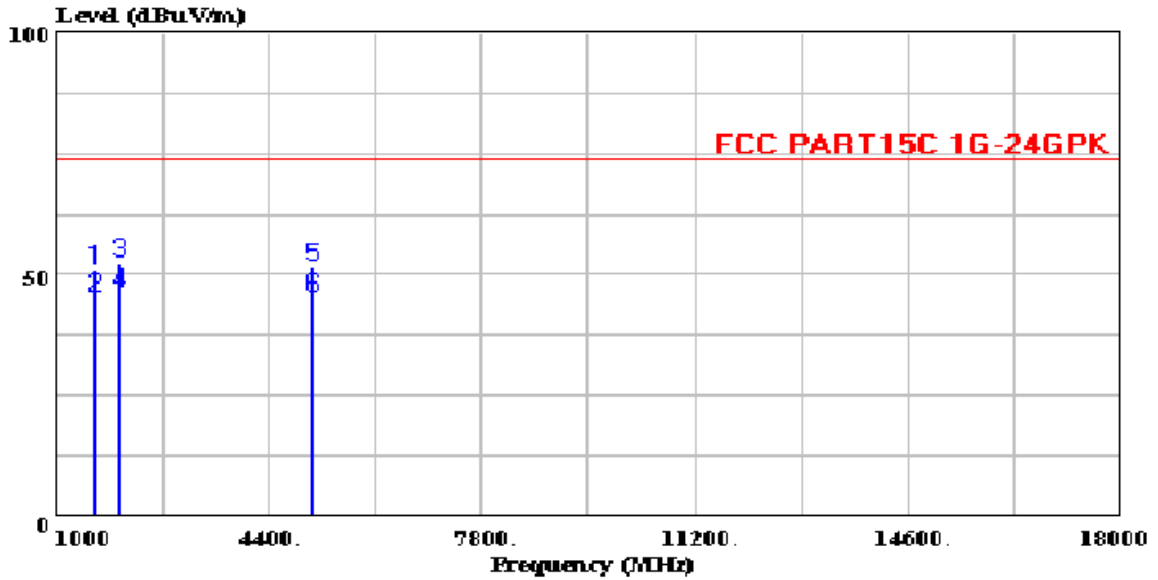


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Data#: 222 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 01:39:52



Site : 966 Chamber  
Condition : FCC PART15C 1G-24GPK 3m 3117 HORIZONTAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2480MHz

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV/m	dBuV	dB	dB	
1	1599.760	51.18	-22.82	74.00	20.56	28.46	2.16	Peak
2	1599.760	45.29	-8.71	54.00	14.80	28.33	2.16	Average
3	2002.960	52.67	-21.33	74.00	19.37	31.10	2.20	Peak
4	2002.960	46.03	-7.97	54.00	12.73	31.10	2.20	Average
5	5085.230	51.58	-22.42	74.00	21.82	27.62	2.14	Peak
6	5085.230	45.33	-8.67	54.00	8.13	34.81	2.39	Average

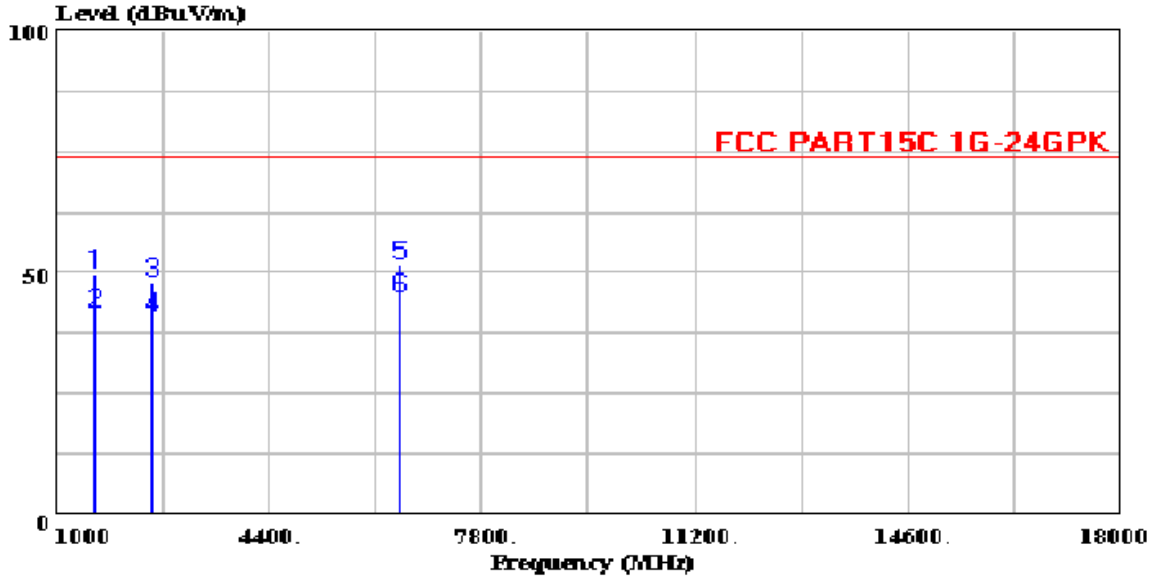


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Data#: 221 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 01:38:18



Site : 966 Chamber  
Condition : FCC PART15C 1G-24GPK 3m 3117 VERTICAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : TX 2480MHz

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV/m	dBuV	dB	dB	
1	1599.760	49.86	-24.14	74.00	19.24	28.46	2.16	Peak
2	1599.760	41.69	-12.31	54.00	11.20	28.33	2.16	Average
3	2500.240	48.13	-25.87	74.00	14.30	31.60	2.23	Peak
4	2500.240	40.88	-13.12	54.00	7.05	31.60	2.23	Average
5	6494.680	51.59	-22.41	74.00	21.35	28.08	2.16	Peak
6	6494.680	44.91	-9.09	54.00	5.83	36.60	2.48	Average

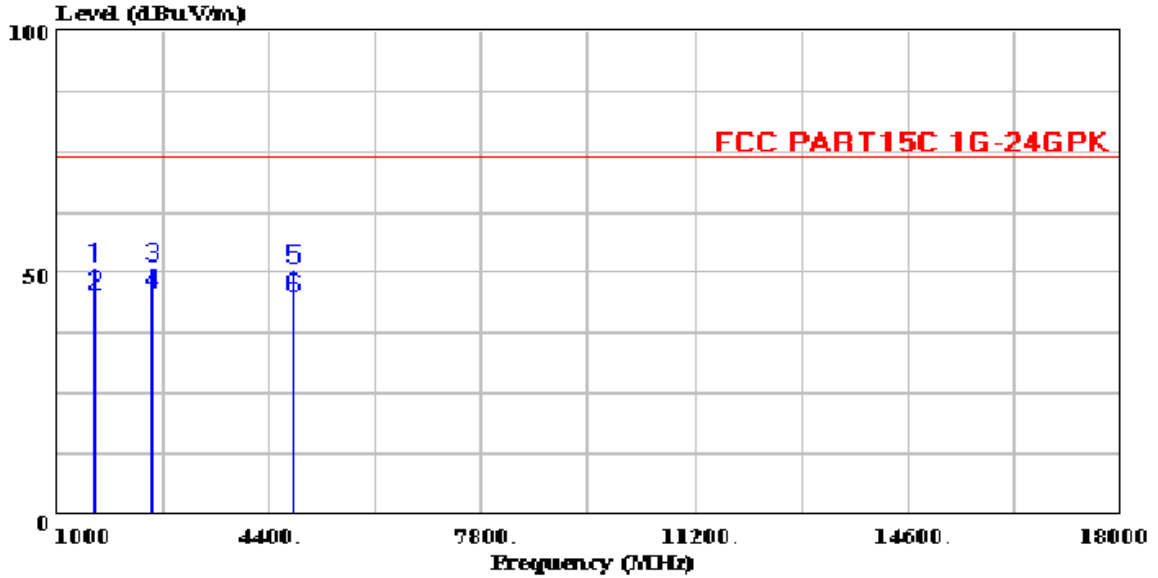


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Data#: 223 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 01:44:47



Site : 966 Chamber  
Condition : FCC PART15C 1G-24GPK 3m 3117 HORIZONTAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : Normal operating

Page: 1

	Freq	Level	Over Limit	Limit	Read	Probe	Cable	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	Remark
1	1603.120	51.18	-22.82	74.00	46.57	28.33	2.16	Peak
2	1603.120	45.17	-8.83	54.00	14.68	28.33	2.16	Average
3	2501.920	51.17	-22.83	74.00	17.34	31.60	2.23	Peak
4	2501.920	45.62	-8.38	54.00	11.79	31.60	2.23	Average
5	4778.840	50.76	-23.24	74.00	13.82	34.57	2.37	Peak
6	4778.840	44.75	-9.25	54.00	7.81	34.57	2.37	Average

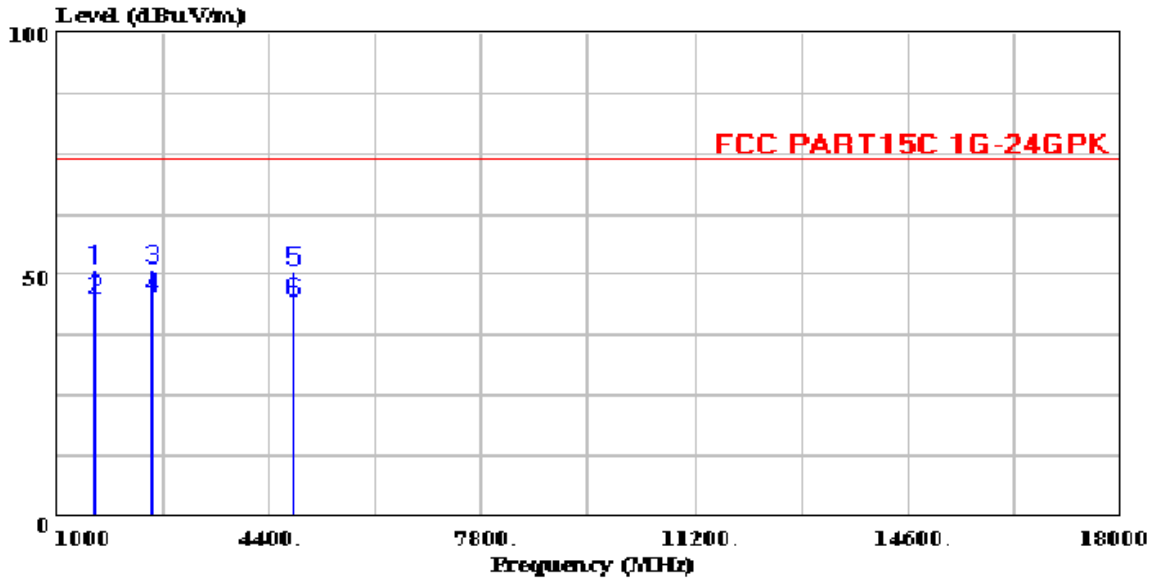


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Data#: 224 File#: \\966pc1\radiation\F\Foryou.emi

Date: 2008-06-16 Time: 01:50:32



Site : 966 Chamber  
Condition : FCC PART15C 1G-24GPK 3m 3117 VERTICAL  
EUT : Bluetooth BOX  
Power : DC 12V  
M/N : BTM10  
Test Engineer: David  
Comment : Temp:25.3'C Humi:55%  
Memo : Normal operating

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	1603.120	51.18	-22.82	74.00	46.57	28.33	2.16	Peak
2	1603.120	44.67	-9.33	54.00	14.18	28.33	2.16	Average
3	2501.920	51.17	-22.83	74.00	17.34	31.60	2.23	Peak
4	2501.930	45.36	-8.64	54.00	11.53	31.60	2.23	Average
5	4778.840	50.76	-23.24	74.00	13.82	34.57	2.37	Peak
6	4778.840	44.18	-9.82	54.00	7.24	34.57	2.37	Average



## 4.7. Conducted Emission

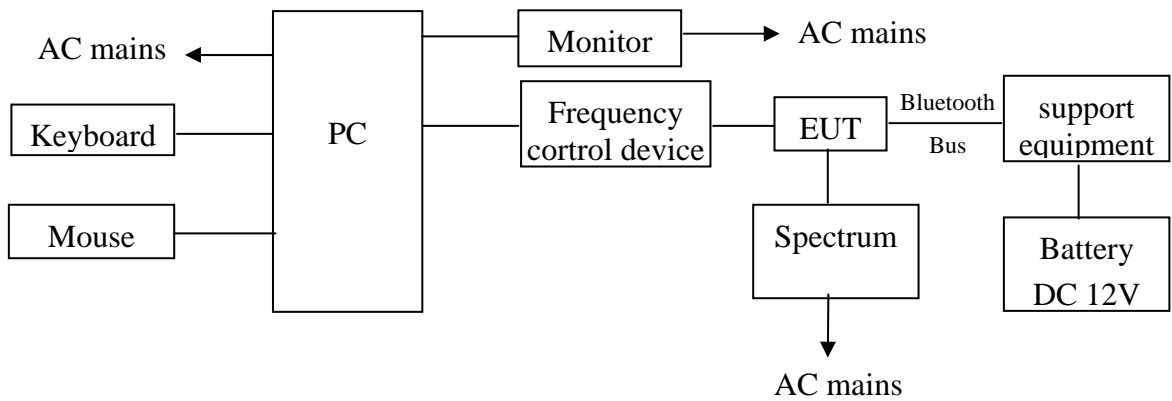
### 4.7.1. Test limits

intentional radiator shall be at least 20dB below that in 100kHz bandwidth within the band that contains the highest level of the desired power.

### 4.7.2. Test procedure

1. Connect EUT RF output port to the spectrum analyzer through an RF attenuator.
2. Set the EUT work on the CH1, CH79 individually.
4. Set SPA Frequency = Operation frequency, for PK: RBW =100kHz, VBW  $\geq$  RBW
5. Set SPA trace max hold, then view.

### 4.7.3. Test setup diagram

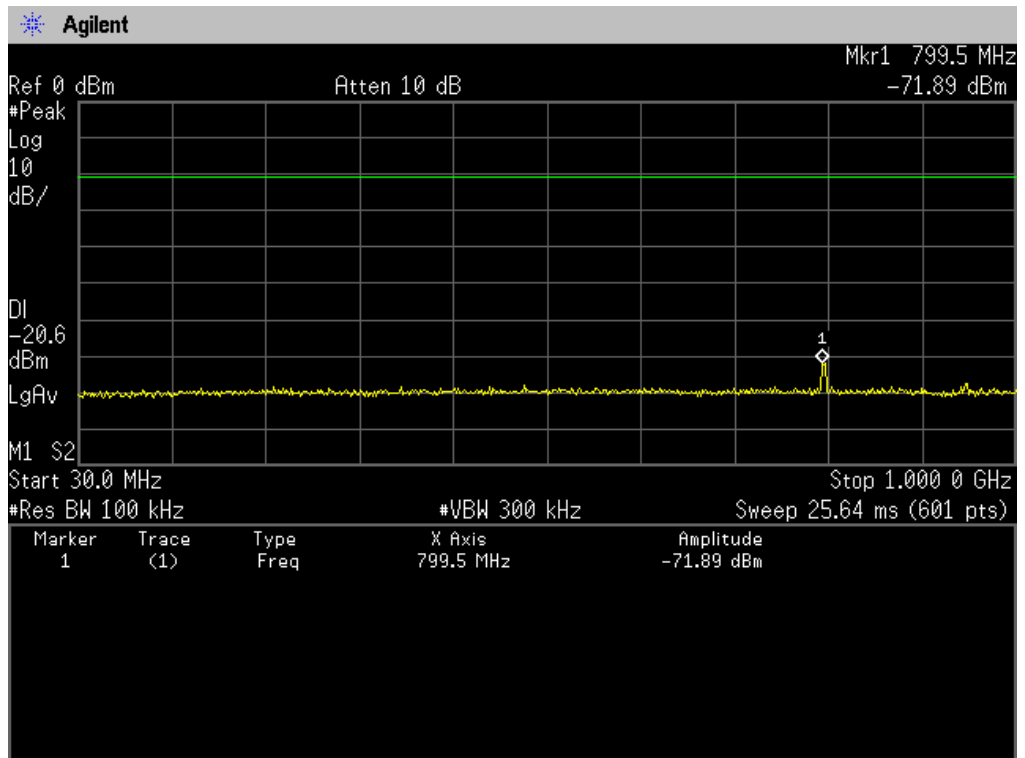
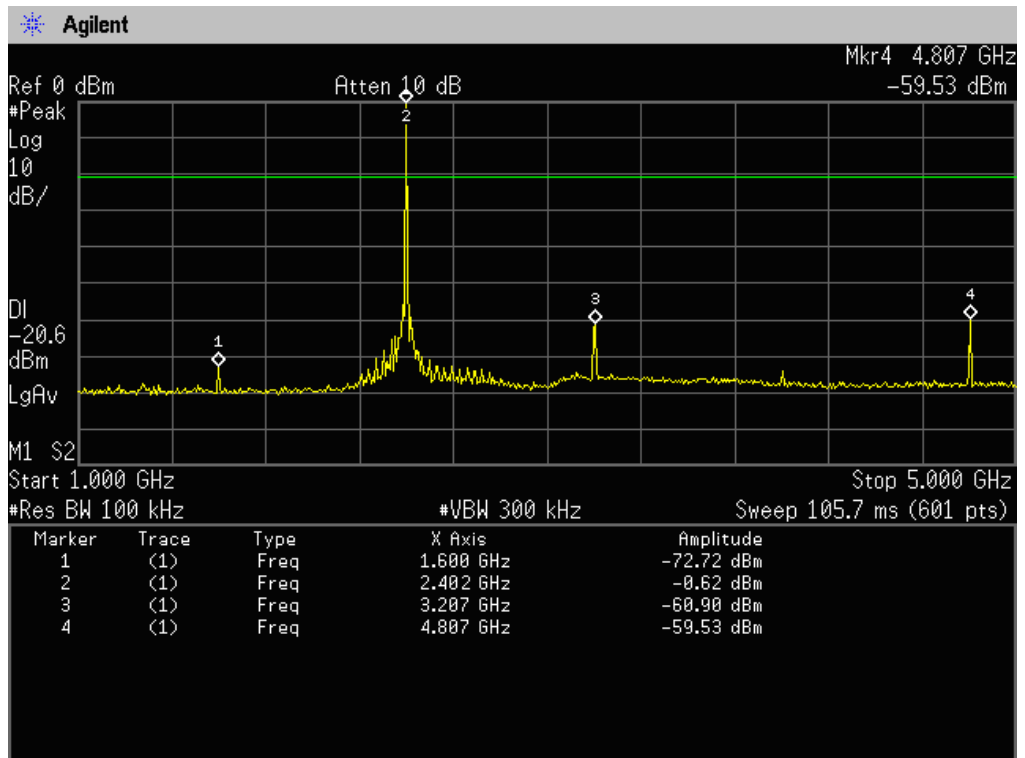


### 4.7.4. Test result

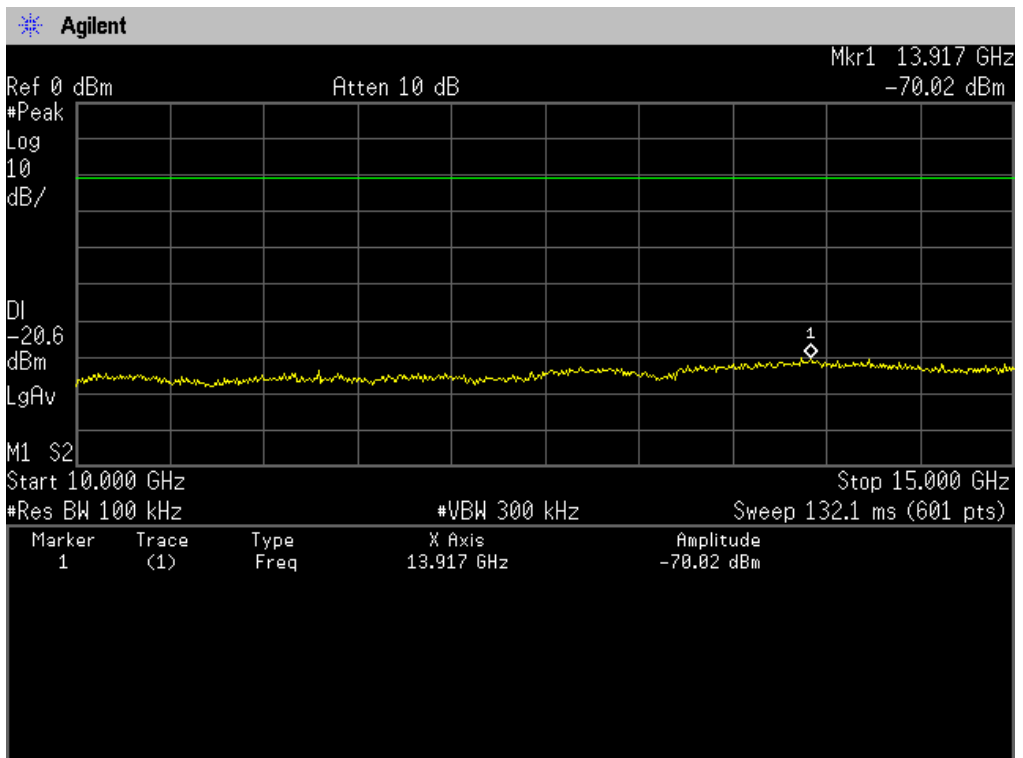
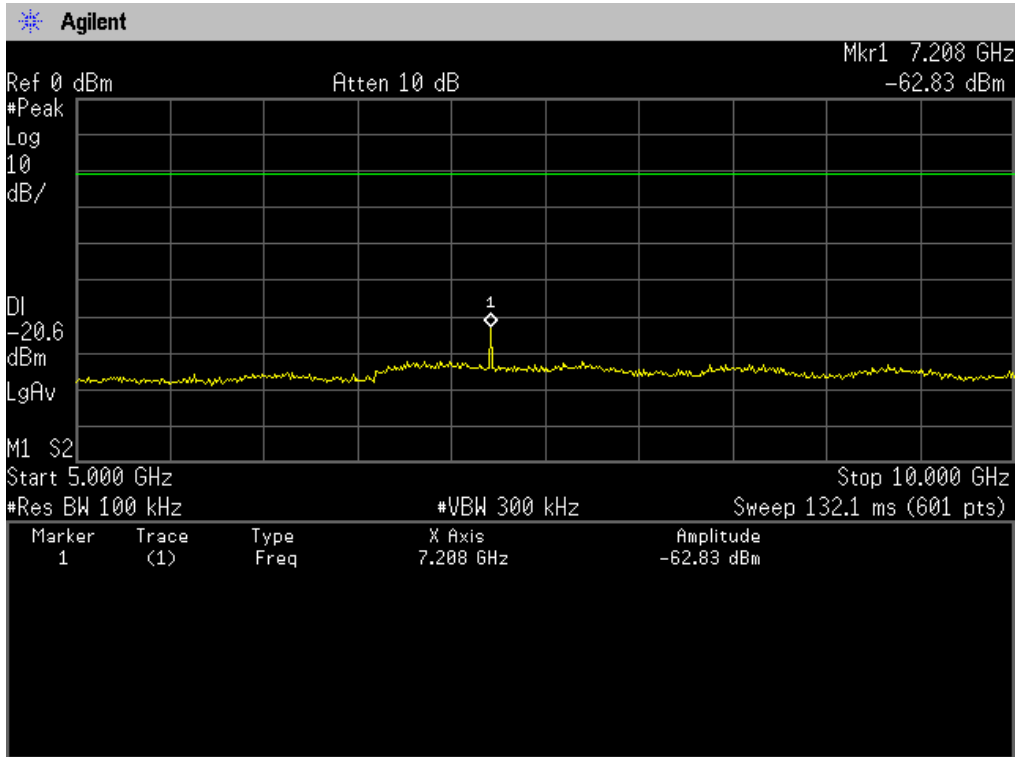
**PASS.**

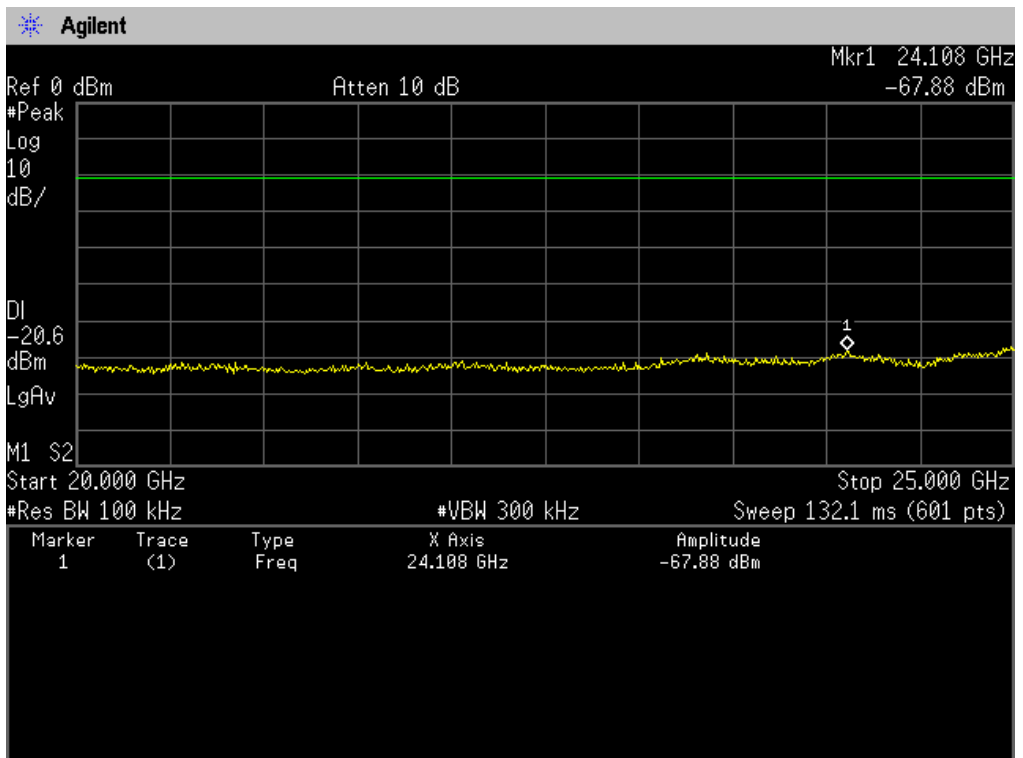
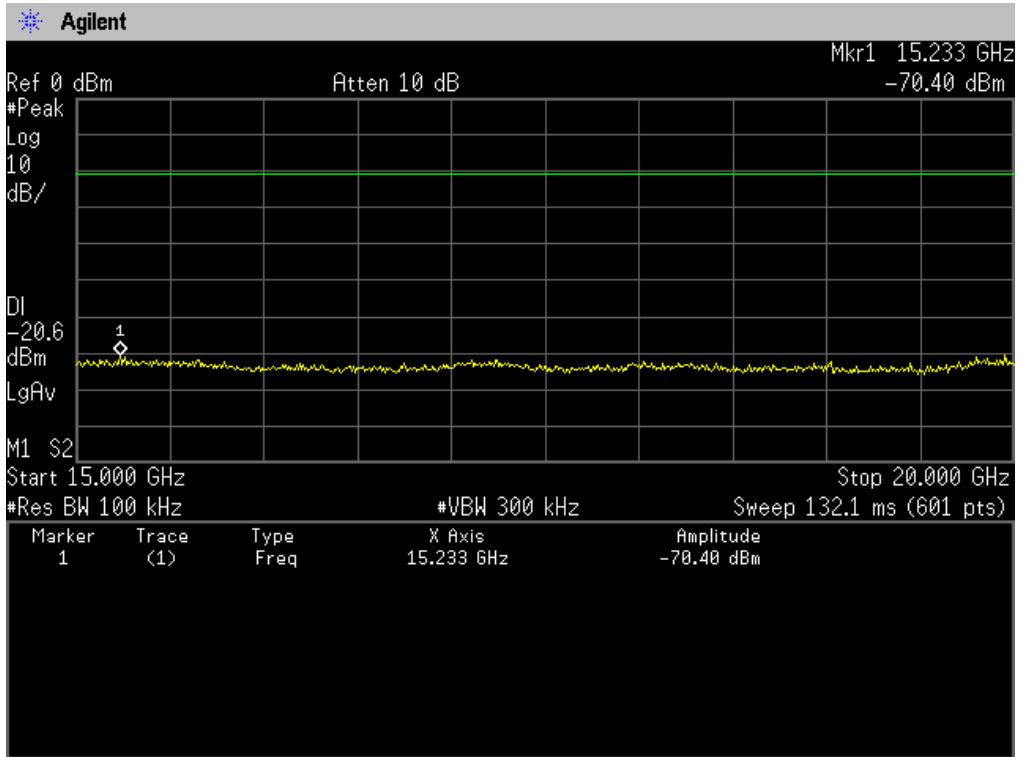
The test plots as following:

CH1:2402MHz

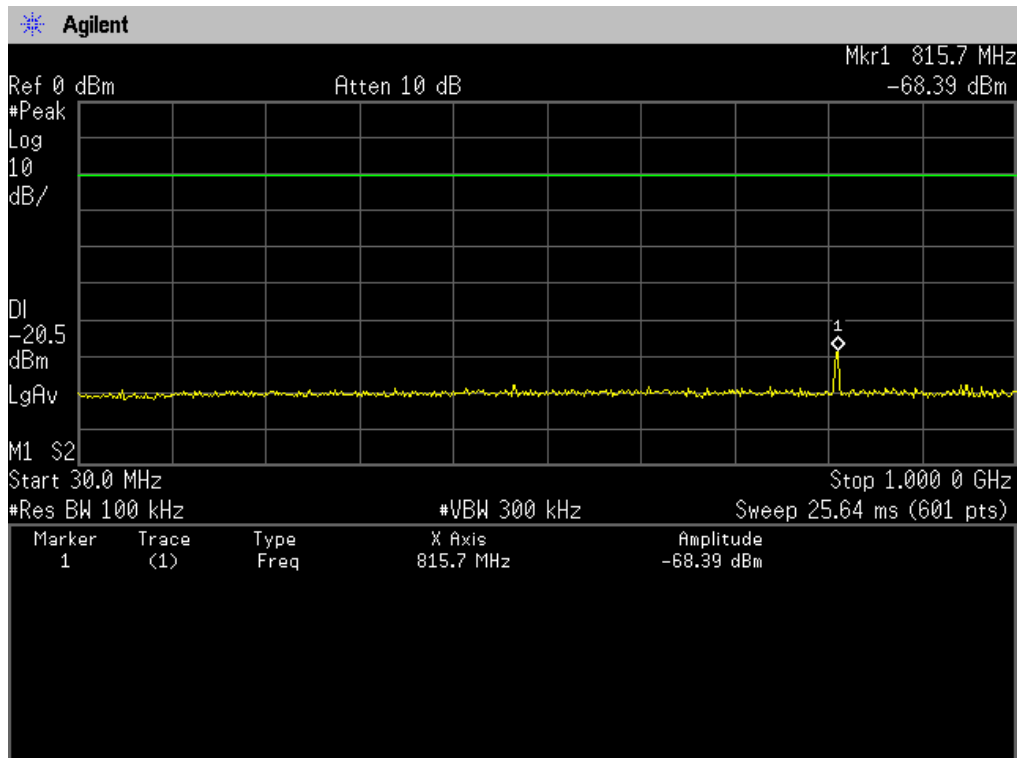
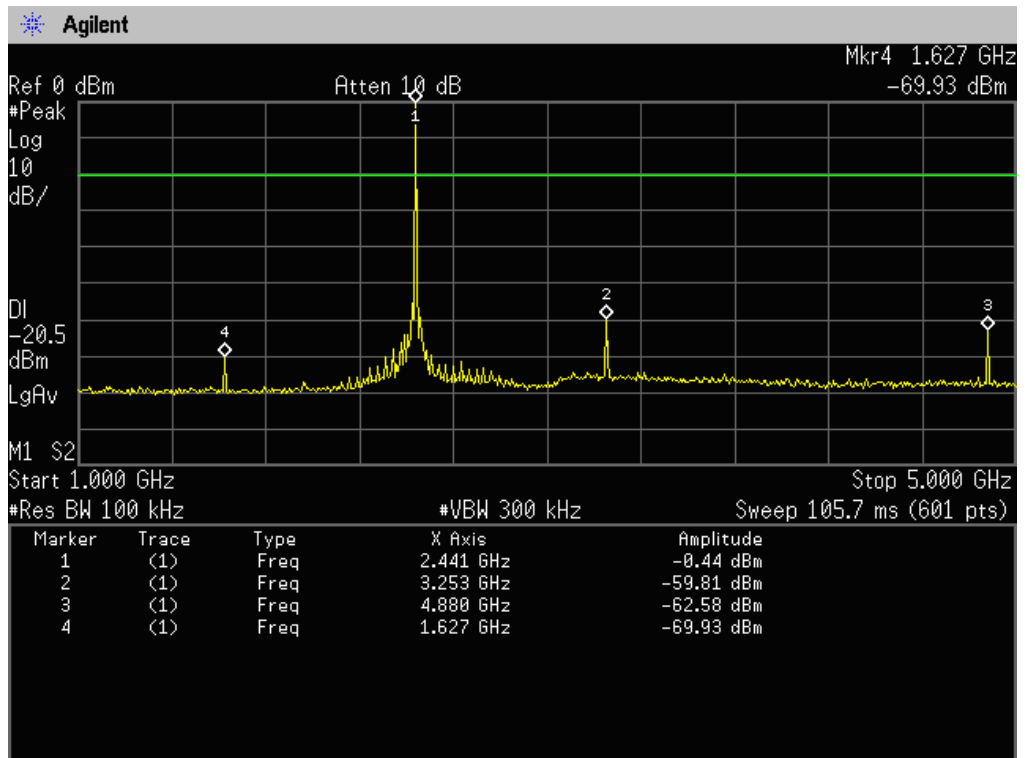


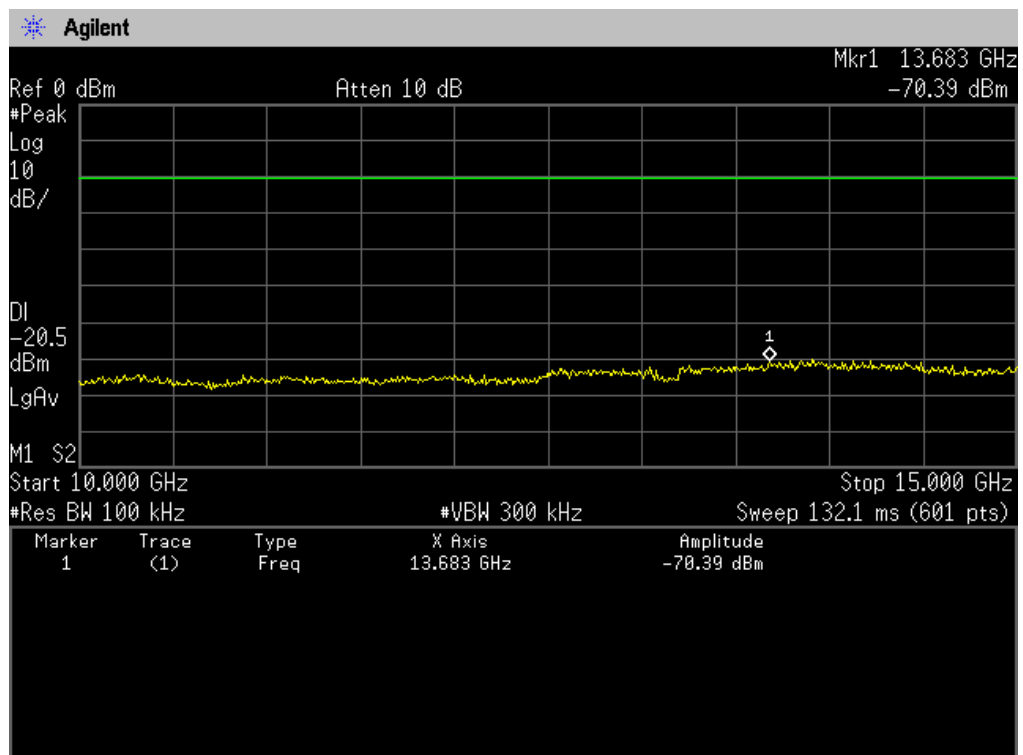
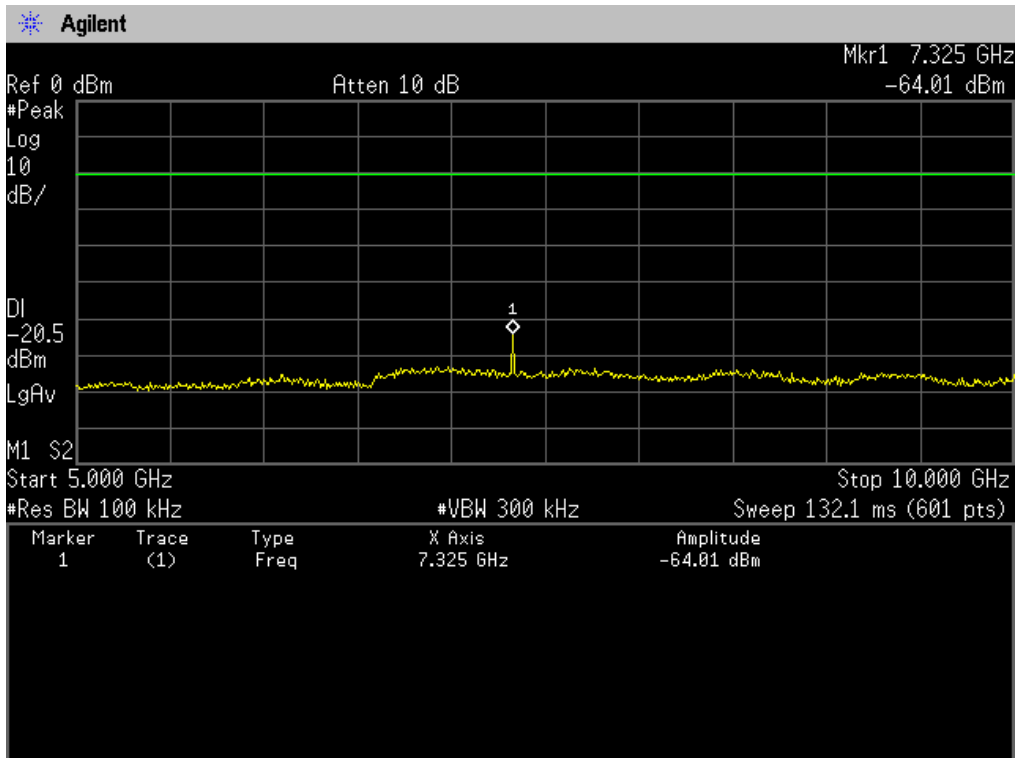


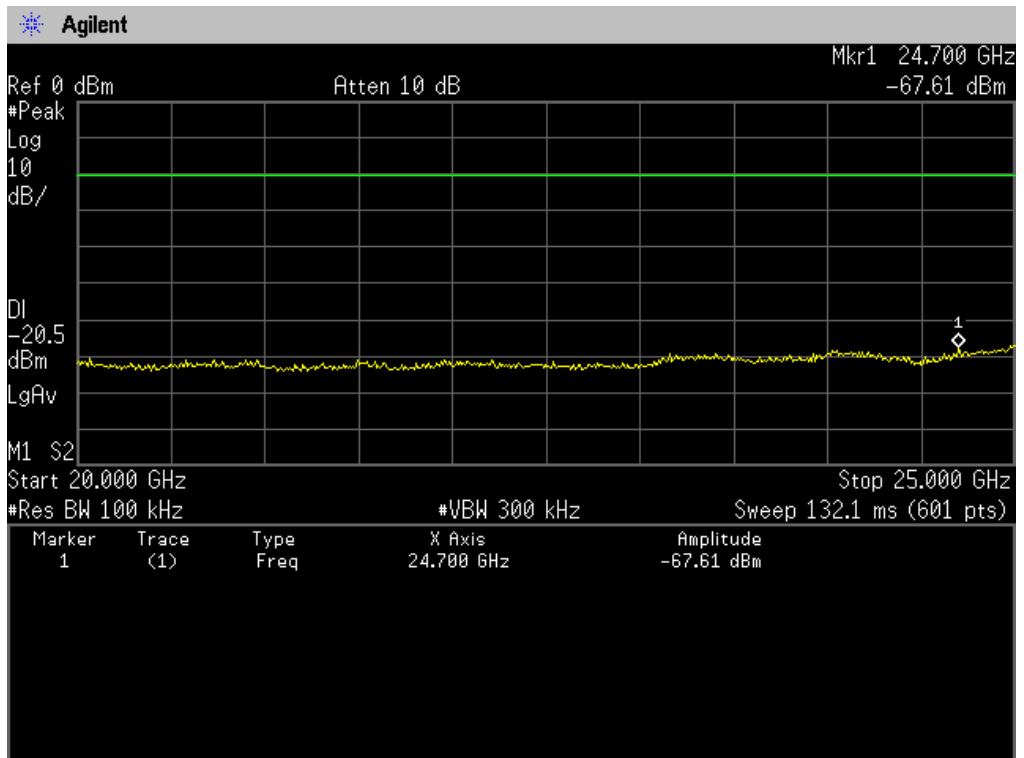
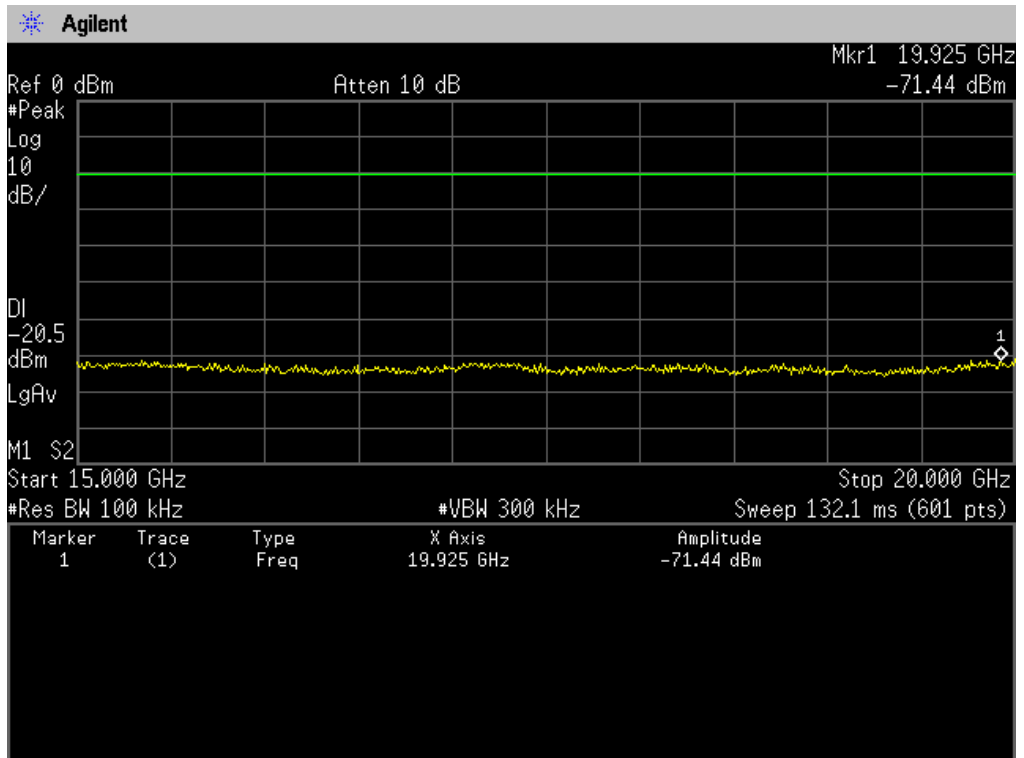




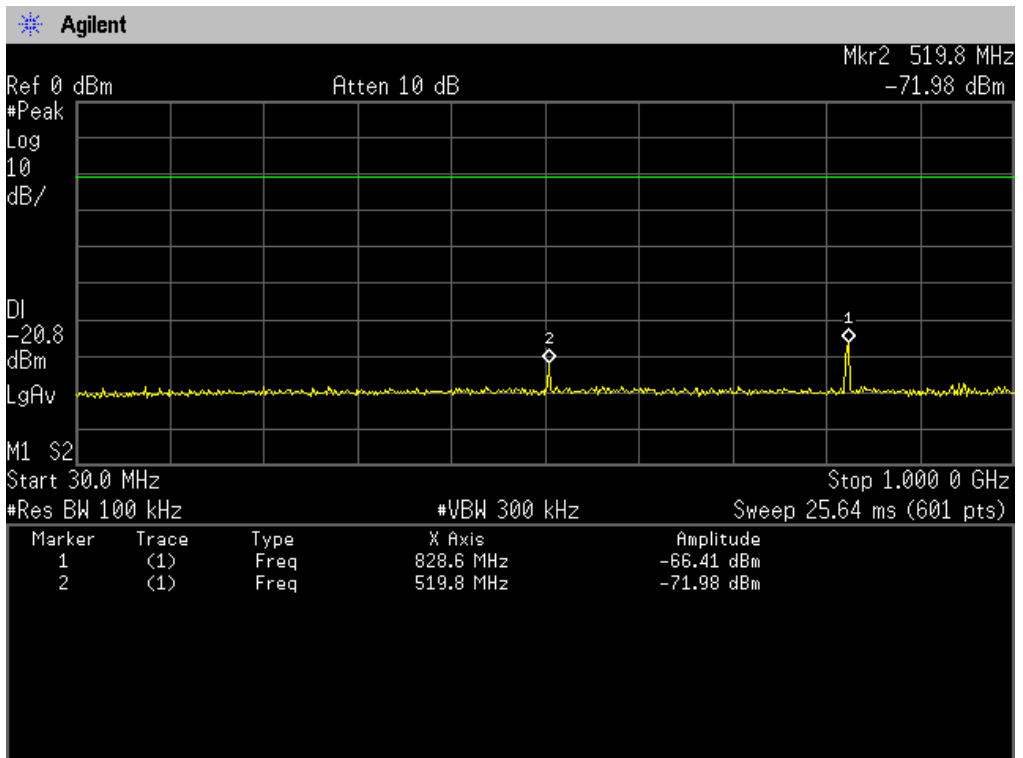
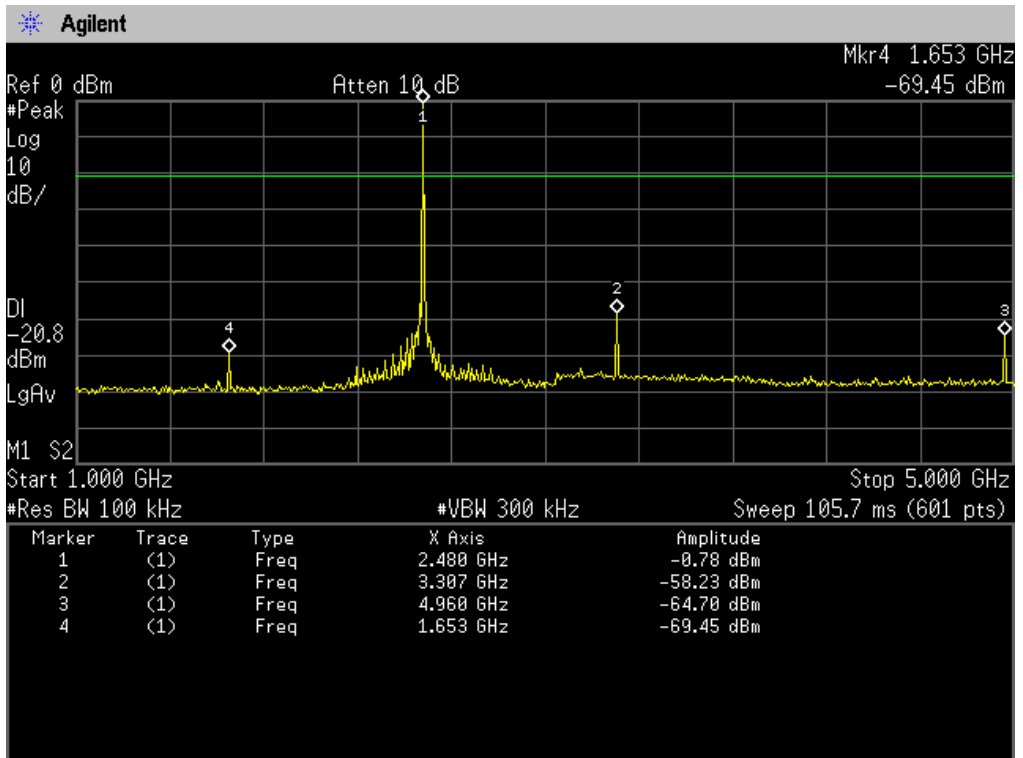
CH40:2441MHz

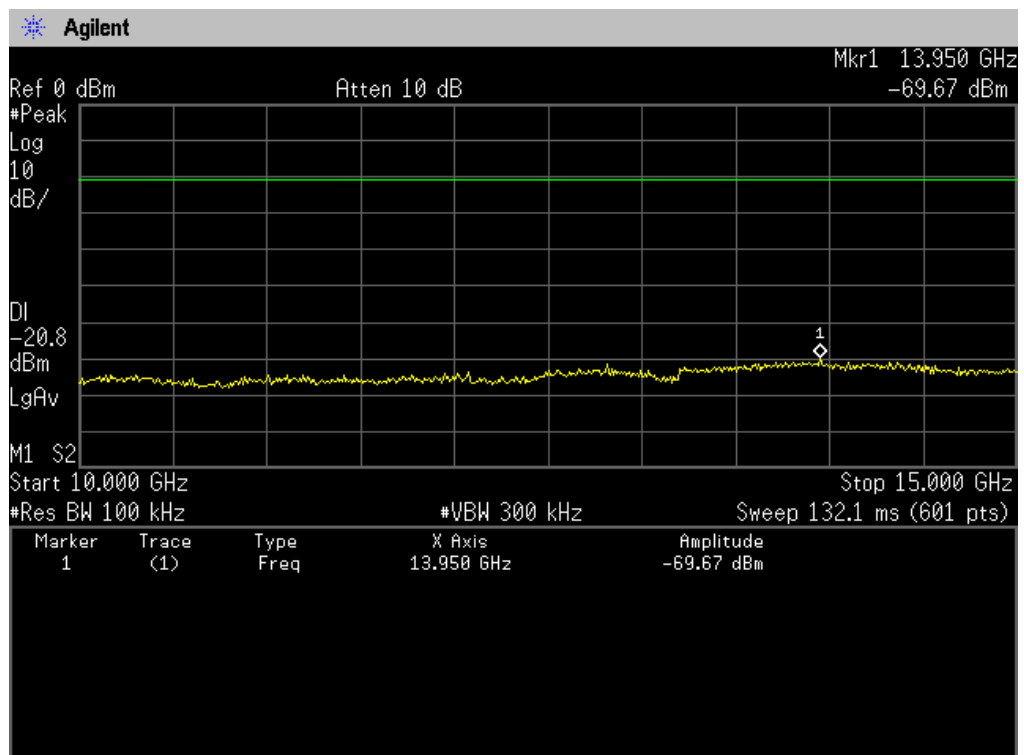
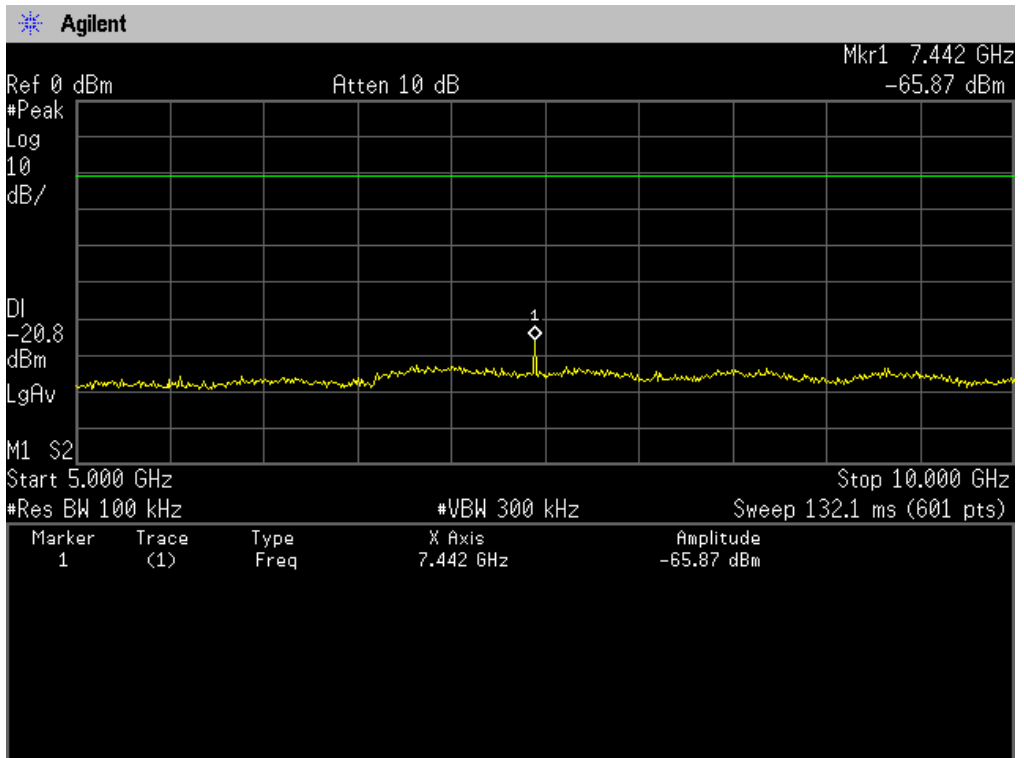


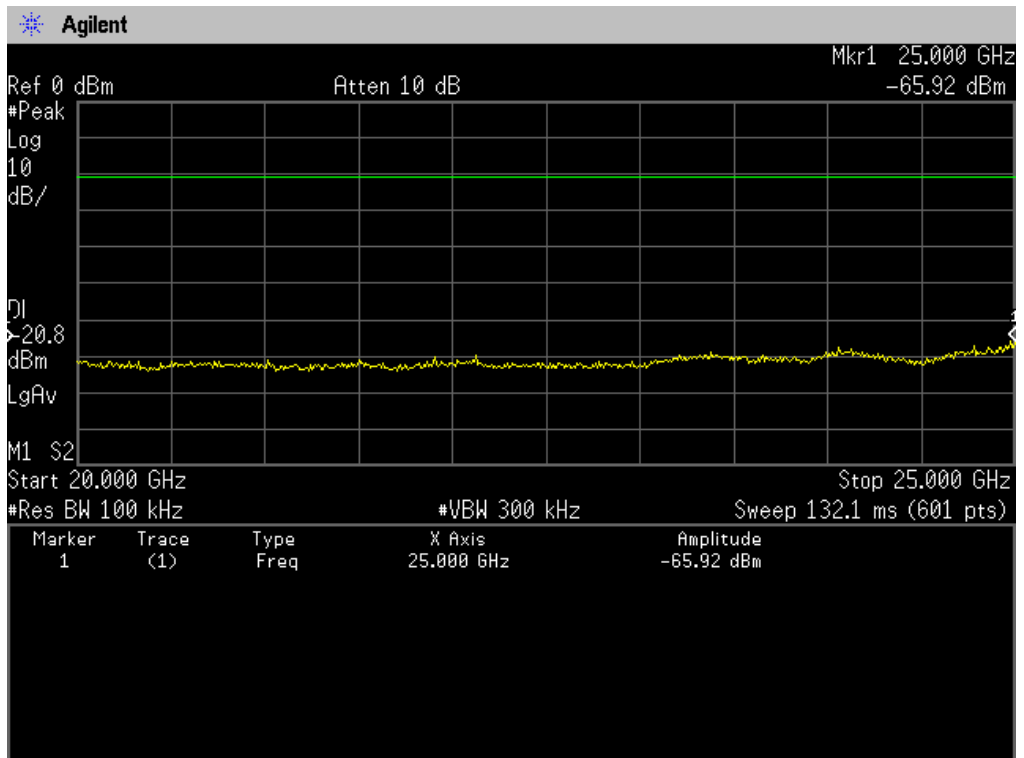
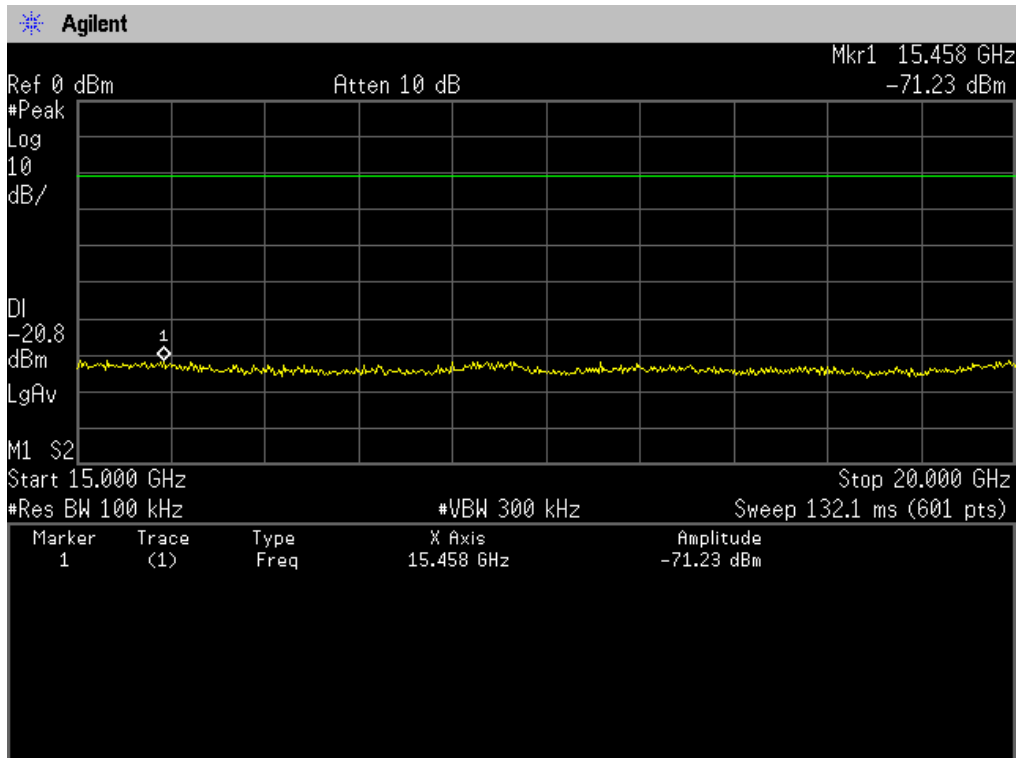




CH79:2480MHz









## 4.8. Band Edge

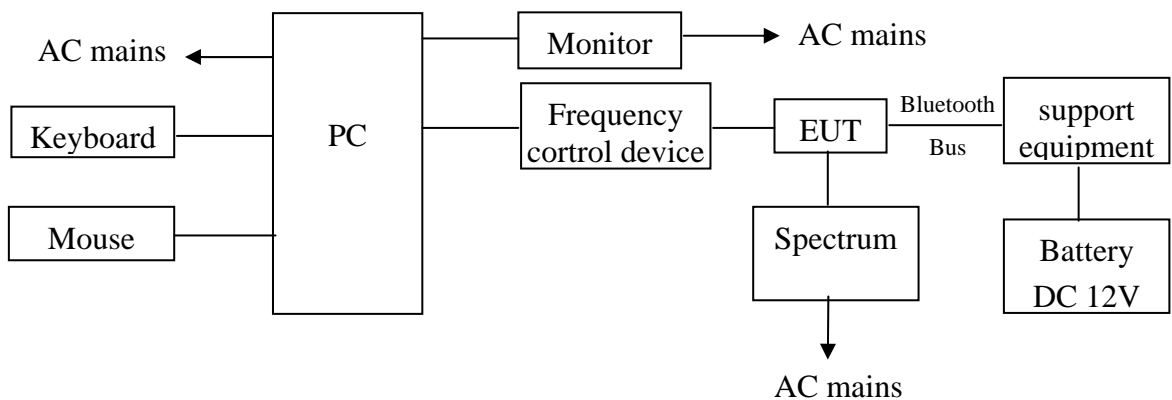
### 4.8.1. Test limits

In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20dB below that in 100kHz bandwidth within the band that contains the highest level of the desired power.

### 4.8.2. Test procedure

1. The EUT was placed on a turntable which is 0.8m above ground plane.
2. Connect EUT RF output port to the spectrum analyzer through an RF attenuator.
3. Set the EUT work on the CH1, CH79 individually.
4. Set SPA Frequency = Operation frequency, for PK: RBW =100kHz, VBW  $\cong$  RBW
5. Set SPA trace max hold, then view.

### 4.8.3. Test setup diagram

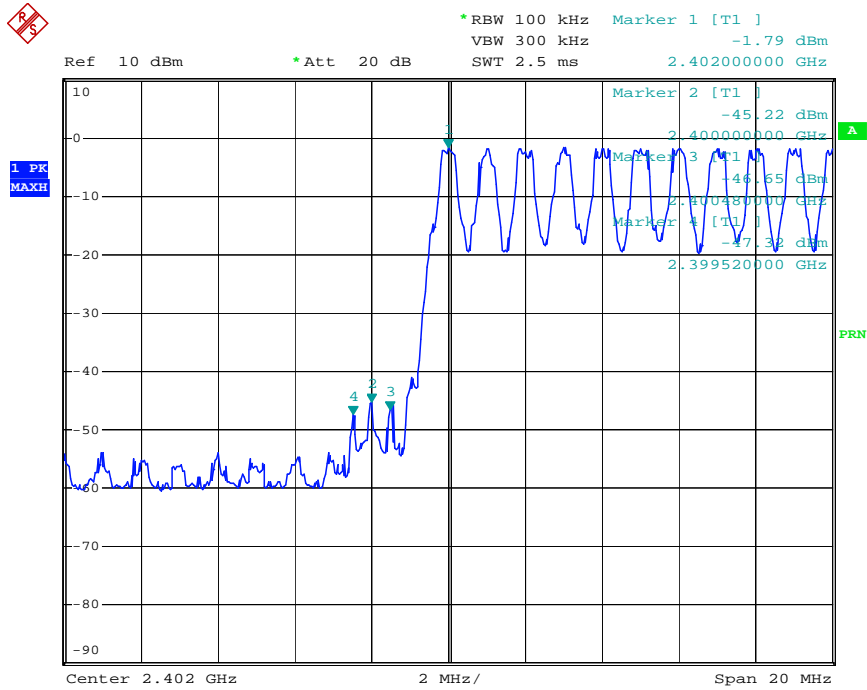


### 4.8.4. Test result

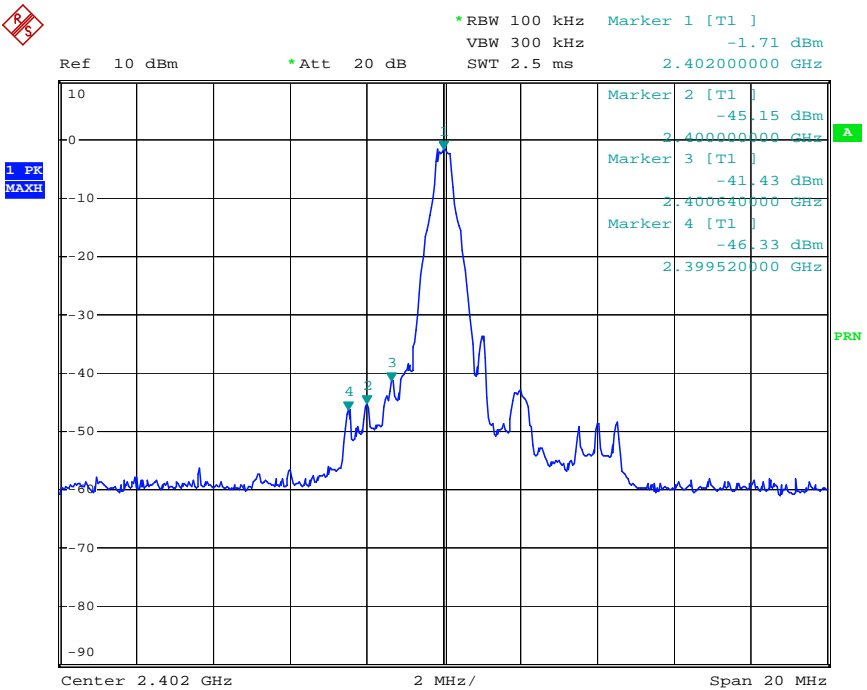
**PASS.**

The test plots as following:

Test CH1: 2402MHz



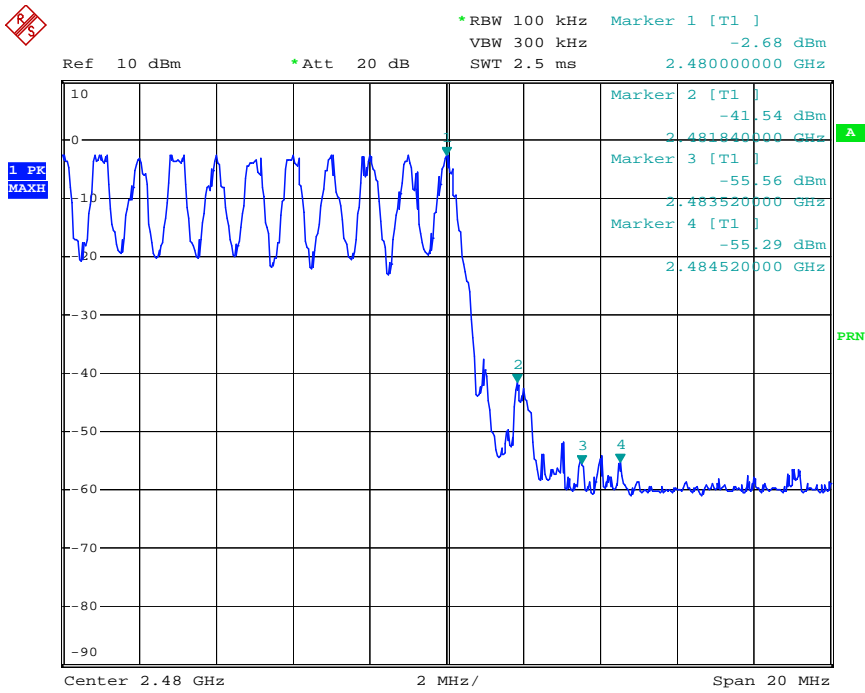
Date: 18.JUN.2008 18:03:07



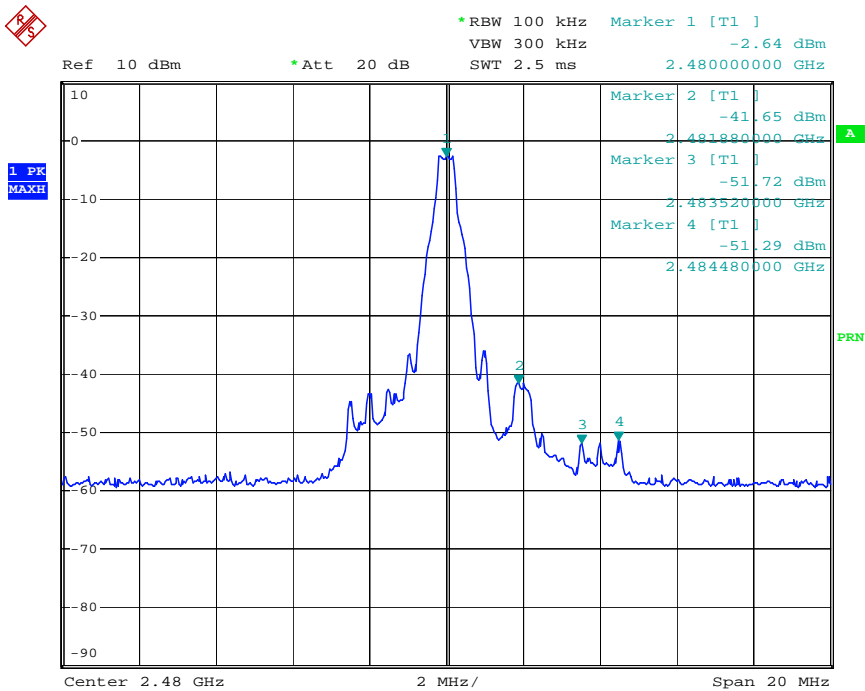
Date: 18.JUN.2008 17:56:55



Test CH79 2480MHz



Date: 18.JUN.2008 18:05:49



Date: 18.JUN.2008 18:45:20

