A Test Lab Techno Corp.

No.140-1, Chang-an St., Bade City, Tao-Yuan County 334, Taiwan (R.O.C.)
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Part 15 C Measurement Report

Report No.	:	**0905FR14**
Applicant	:	**Motorola Inc**
Product Type	:	**Universal Bluetooth Headset**
Trade Mark	:	**Motorola**
Model No	:	**H790**
FCC ID	:	**IHDT6KW1**
Dates of Test	:	**Jan. 16 ~ Jan. 19, 2009 ; May. 14 ~ May. 15, 2009**
Test Specification	:	**Part 15 Subpart C (15.247)** **PUBLIC NOTICE :DA 00-705 Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems**
Application	:	**Class II permissive change**
Location of Test Lab.	:	**Chang-an Lab.**

1. The test operations have to be performed with cautious behavior, the test results are as attached.
2. The test results are under chamber environment of A Test Lab Techno Corp. A Test Lab Techno Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples.
3. The measurement report has to be written approval of A Test Lab Techno Corp. It may only be reproduced or published in full.

Country Huang **20090519**
Measurement Center Manager

John Cheng **20090519**
Testing Engineer

CERTIFICATION

We here by verify that:

The test data, data evaluation, test procedures and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4:2003. All test were conducted by *A Test Lab Techno Corp. No.140-1, Chang-an St., Bade City, Tao-Yuan County 334, Taiwan (R.O.C.)* Also, we attest to the accuracy of each.

We further submit that the energy emitted by the sample EUT tested as described in the report is in compliance with Class B radiated and conducted emission limit of FCC Rules Part 15 Subpart C (15.247).

EUT	:	**Universal Bluetooth Headset**
Applicant	:	**Motorola Inc**
		Mobile Devices 600 N.U.S. Highway 45 Libertyville Illinois
		60048-5343
Trade Mark	:	**Motorola**
Model No	:	**H790**
FCC ID	:	**IHDT6KW1**
Application	:	**Class II permissive change**

Approved by : **Country Huang 2009/05/19** ***Prepared by :*** **John Cheng 2009/05/19**

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Contents

1. GENERAL

1.1 Description of Equipment under Test (EUT)

Applicant： **Motorola Inc**
Mobile Devices 600 N.U.S. Highway 45 Libertyville Illinois 60048-5343

Manufacturer	：	Fu Gang(Dong Guan) Electronic Co., Ltd
Manufacturer Address	：	Industry Street,Dongkeng Town,Dongguan City, Guangdong Province,China
Trade Mark	：	Motorola
Product Model	：	H790
Product Type	：	Universal Bluetooth Headset
FCC ID	：	IHDT6KW1
Frequency of Channel	：	See Table 1
Type of Modulation	：	Frequency Hopping Spread Spectrum
Type of Antenna	：	Internal Antenna
Antenna Gain	：	1.07 dBi

During testing the EUT was operated at Tx or Rx mode for each emission measured. This was done in order to ensure that maximum emission levels were attained.

CH No.	Freq.	CH No.	Freq.	CH No.	Freq.	CH No.	Freq.
0	2402.00	20	2422.00	40	2442.00	60	2462.00
1	2403.00	21	2423.00	41	2443.00	61	2463.00
2	2404.00	22	2424.00	42	2444.00	62	2464.00
3	2405.00	23	2425.00	43	2445.00	63	2465.00
4	2406.00	24	2426.00	44	2446.00	64	2466.00
5	2407.00	25	2427.00	45	2447.00	65	2467.00
6	2408.00	26	2428.00	46	2448.00	66	2468.00
7	2409.00	27	2429.00	47	2449.00	67	2469.00
8	2410.00	28	2430.00	48	2450.00	68	2470.00
9	2411.00	29	2431.00	49	2451.00	69	2471.00
10	2412.00	30	2432.00	50	2452.00	70	2472.00
11	2413.00	31	2433.00	51	2453.00	71	2473.00
12	2414.00	32	2434.00	52	2454.00	72	2474.00
13	2415.00	33	2435.00	53	2455.00	73	2475.00
14	2416.00	34	2436.00	54	2456.00	74	2476.00
15	2417.00	35	2437.00	55	2457.00	75	2477.00
16	2418.00	36	2438.00	56	2458.00	76	2478.00
17	2419.00	37	2439.00	57	2459.00	77	2479.00
18	2420.00	38	2440.00	58	2460.00	78	2480.00
19	2421.00	39	2441.00	59	2461.00		

Table 1. Bluetooth Frequency of Each Channel (Working Frequency)

1.2 Introduction

The following measurement report is submitted on behalf of **Motorola Inc**. In support of a Class B Digital Device certification in accordance with Part2 Subpart J and Part 15 Subpart A And B&C of the Commission's and Regulations.

1.3 Class II permissive change Description:

The model (Motorola_H790) is the variant product of Motorola_H17 (FCC ID: IHDT6KW1). Motorola_H790 is changed from Motorola_H17; the difference from Motorola_H17 is the model number and housing changed the plastic source.

1.4 Summary of Tests

Some test items of Motorola_H790 copy from the original report which is Motorola_H17 (report number: 0901FR13).

47 CFR Part 15 Subpart C			
Reference	**Test**	**Results**	**Note**
15.107	**AC Power Conducted Emission**	**PASS**	**Ref. Report No.: 0901FR13**
15.247(c)	**Transmitter Radiated Emissions**	**PASS**	
15.247(b)	**Max. Output Power**	**PASS**	**Ref. Report No.: 0901FR13**
15.247(a)(1)	**20dB RF Bandwidth**	**PASS**	**Ref. Report No.: 0901FR13**
15.247(a)(1)(ii)	**Carrier Frequency Separation**	**PASS**	**Ref. Report No.: 0901FR13**
15.247(a)(1)(i)	**Number of Hopping**	**PASS**	**Ref. Report No.: 0901FR13**
15.247(a)(1)(i)	**Time of Occupancy (Dwell Time)**	**PASS**	**Ref. Report No.: 0901FR13**
15.247(c)	**Out of Band Conducted Spurious Emission**	**PASS**	**Ref. Report No.: 0901FR13**
15.247(c)	**Band Edge Measurement**	**PASS**	
15.203	**Antenna Requirement**	**PASS**	**Ref. Report No.: 0901FR13**

1.5 Description of Support Equipment

Describe	Manufacturer	Model	Serial No.	FCC ID
N/A	-----	-----	-----	-----

1.6 Configuration of System under Test

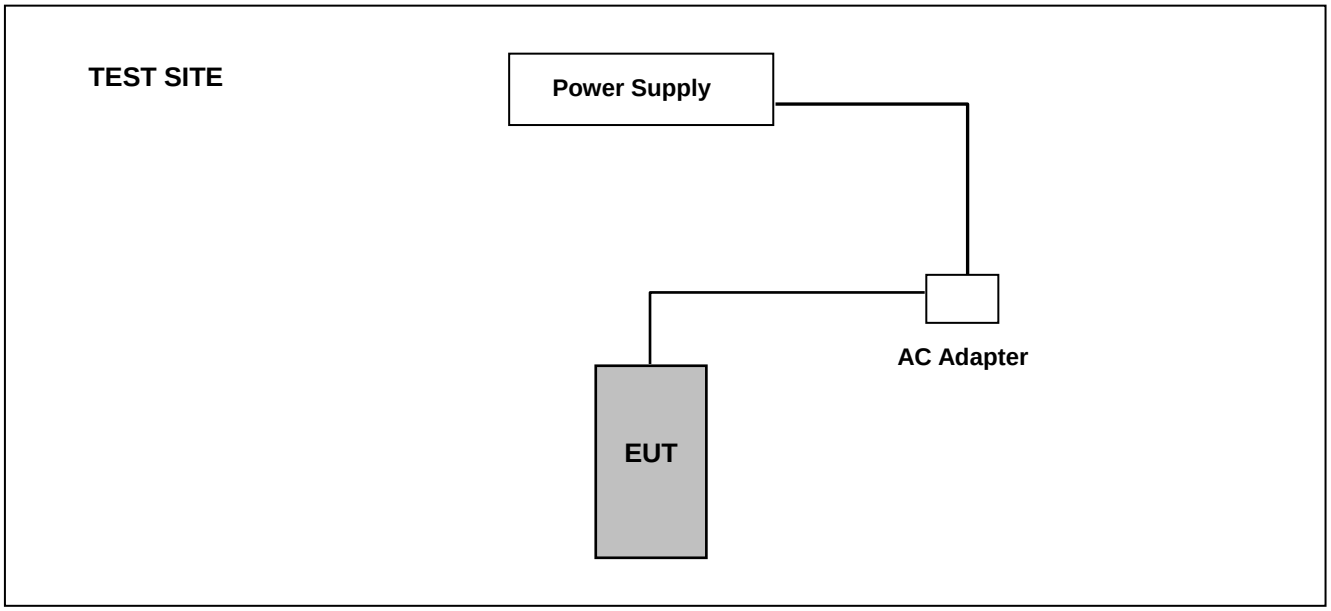

Figure 1. Configuration of System Under Test for PC USB Link

During EMI testing (LINK) the EUT (Universal Bluetooth Headset)'s Power port was connected to AC Adapter.

1.7 Test Procedure

All measurements contained in this report were performed according to the techniques described in Measurement procedure ANSI C63.4-2003 "Measurement of un-Intentional Radiators."

1.8 General Test Condition

The conditions under which the EUT operates were varied to determine their effect on the equipment's emission characteristics. The final configuration of the test system and the mode of operation used during these tests were chosen as that which produced the highest emission levels. However, only those conditions which the EUT was considered likely to encounter in normal use were investigated. The systems radiated and conducted emissions were investigated while the computer alternately transferred data to the EUT as well as to the monitor and printer. Using a test program which sent a continuous data and transferred data to and from the EUT was proven to worst case emissions. The system's physical layout and cabling was randomly arranged to ensure that maximum emission levels were attained.

2. Conducted Emissions Requirements

2.1 General & Setup:

The power line conducted emission measurements were performed in a shielded enclosure. The EUT was assembled on a wooden table which is 80 centimeters high, was placed 40 centimeters from the back wall and at least 1 meter from the sidewall.

Power was fed to the EUT from the public utility power grid through a line filter and EMCO Model 3162/2 SH Line Impedance Stabilization Networks (LISN). The LISN housing, measuring instrumentation case, ground plane, etc., were electrically bonded together at the same RF potential. The Spectrum analyzer was connected to the AC line through an isolation transformer. The 50-ohm output of the LISN was connected to the spectrum analyzer directly. Conducted emission levels were in the CISPR quasi-peak detection mode. The analyzer's 6 dB bandwidth was set to 9 KHz. No post-detector video filter was used.

The spectrum was scanned from 150 KHz to 30 MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in paragraph 2.6.

2.2 Test Equipment List:

Describe	Manufacturer	Model	Serial Number	Calibration	
				Cal. Date	Due Date
Spectrum Analyzer	Advantest	R3132	160300103	Mar. 06, 2008	Mar. 06, 2009
Test Receiver	R&S	ESCI	100367	Jun. 05, 2008	Jun. 05, 2009
LISN	EMCO	3816/2 SH	00060110	Jun. 03, 2008	Jun. 03, 2009
LISN	EMCO	3816/2 SH	00060111	Jun. 30, 2008	Jun. 30, 2009
Transient Limiter	ELECTRO-METRICS	EM-7600	777	Jun. 26, 2008	Jun. 26, 2009

2.3 Test condition:

EUT tested in accordance with the specifications given by the Manufacturer, and exercised in the most unfavorable manner.

2.4 Conducted Emissions Limits:

Frequency range (MHz)	Limits (dBuV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5.0	56	46
5.0 to 30	60	50

2.5 Measurement Data of Conducted Emissions:

2.5.1 Conducted Emissions (Subpart C)

The following table show a summary of the highest emissions of power line conducted emissions to the HOT and NATURAL conductor of the EUT power.

Applicant : Motorola Inc
Model No : H790
EUT : Universal Bluetooth Headset
Test Mode : Charger Mode
Test Date : 01/16/2009

Please refer to next pager of detail testing data.

Notes:

1. L1: One end & Ground L2: The other end & Ground
2. Height of table on which the EUT was placed: 0.8 m.
3. The Quasi-Peak Value have already met the Average Value Limit showed on above limits.
4. The above test results are obtained under the normal condition.

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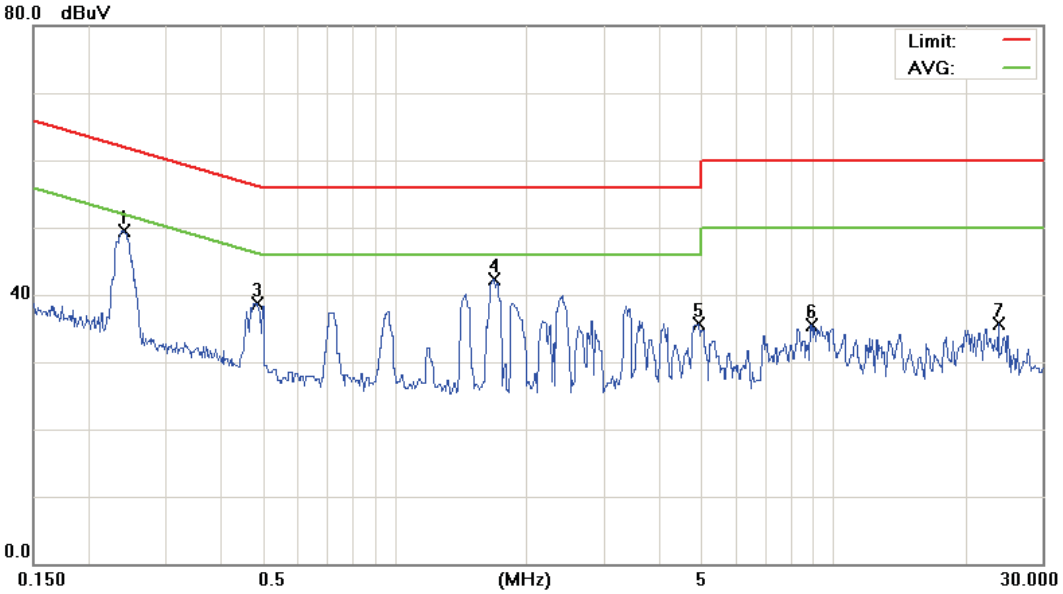

Site site #1
Limit: CISPR22 Class B Conduction(QP)
EUT:
M/N: 09-0007-E
Mode: Charge
Note:

Phase: *L1*
Power: AC 110V/60Hz

Temperature: 26 ℃
Humidity: 55 %
RBW: 10 KHz VBW: 100

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.2410	39.84	9.75	49.59	62.06	-12.47	peak	
2		0.2410	17.85	9.75	27.60	52.06	-24.46	AVG	
3		0.4860	28.84	9.78	38.62	56.24	-17.62	peak	
4		1.6880	32.45	9.83	42.28	56.00	-13.72	peak	
5		4.9100	25.65	10.06	35.71	56.00	-20.29	peak	
6		8.9000	25.38	10.09	35.47	60.00	-24.53	peak	
7		23.7500	25.30	10.32	35.62	60.00	-24.38	peak	

*:Maximum data x:Over limit !:over margin

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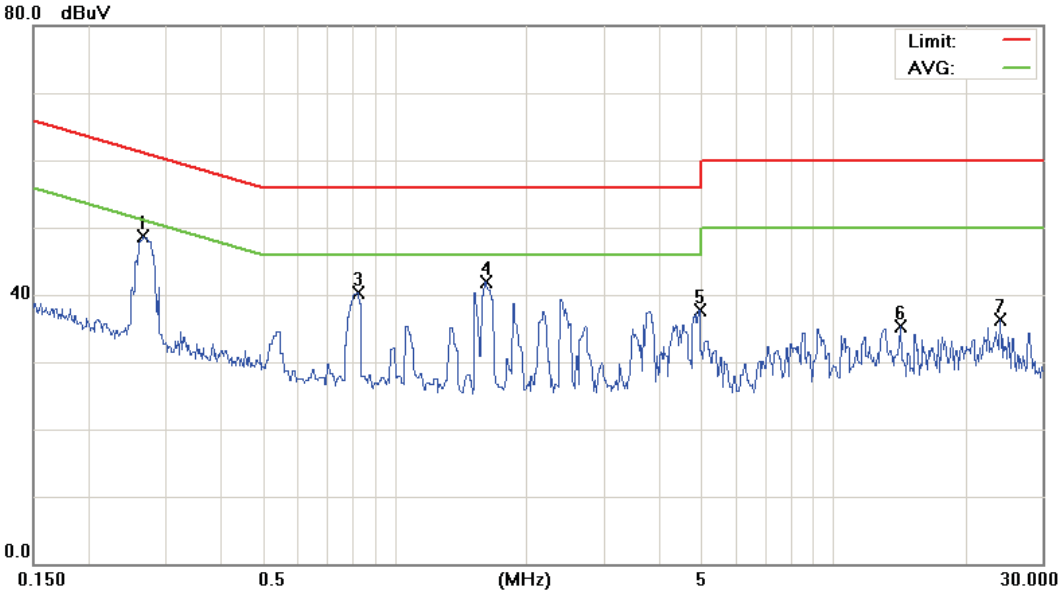

Site site #1
Limit: CISPR22 Class B Conduction(QP)
EUT:
M/N: 09-0007-E
Mode: Charge
Note:

Phase: L2
Power: AC 110V/60Hz

Temperature: 26 ℃
Humidity: 55 %
RBW: 10 KHz VBW: 100

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.2669	38.87	9.76	48.63	61.21	-12.58	peak	
2		0.2669	17.34	9.76	27.10	51.21	-24.11	AVG	
3		0.8240	30.47	9.80	40.27	56.00	-15.73	peak	
4		1.6069	32.09	9.82	41.91	56.00	-14.09	peak	
5		4.9279	27.71	10.07	37.78	56.00	-18.22	peak	
6		14.2000	25.13	10.20	35.33	60.00	-24.67	peak	
7		23.9500	25.92	10.30	36.22	60.00	-23.78	peak	

*:Maximum data x:Over limit !:over margin

3. Radiated Emissions Requirements

3.1 Final radiation measurements were made on a three-meter:

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 30 MHz to 26.5 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

A nonconductive material surrounded the EUT to supporting the EUT for standing on tree orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Biconilog Antenna (mode VULB9163) at 3 Meter and the SCHWARZBECK Double Ridged Guide Antenna (model BBHA9120D&9170) was used in frequencies 1 – 26.5 GHz at a distance of 1 meter. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20dB/decade).

For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts pre meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro colts per meter (dBuV/m).

The actual field is intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

(1) Amplitude (dBuV/m) = FI (dBuV) +AF (dBuV) +CL (dBuV)-Gain (dB)

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

(2) Actual Amplitude (dBuV/m) = Amplitude (dBuV)-Dis(dB)

The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:

(a) For fundamental frequency :

Transmitter Output < +30dBm

(b) For spurious frequency :

Spurious emission limits = fundamental emission limit /10

3.2 Test Equipment List:

Describe	Manufacturer	Model	Serial Number	Calibration	
				Cal. Date	Due Date
Spectrum Analyzer	Agilent	E4408B	MY45107753	Jun. 05, 2008	Jun. 05, 2009
Pre Amplifier	Agilent	8449B	3008A02237	Jun. 03, 2008	Jun. 03, 2009
Pre Amplifier	Agilent	8447D	2944A10961	Jun. 10, 2008	Jun. 10, 2009
Test Receiver	R&S	ESCI	100367	Jun. 05, 2008	Jun. 05, 2009
Biconilog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	Jun. 26, 2008	Jun. 26, 2009
Horn Antenna	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	Jun. 26, 2008	Jun. 26, 2009
Horn Antenna	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	Jun. 09, 2008	Jun. 09, 2009
Horn Antenna	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120E	0899	Jun. 26, 2008	Jun. 26, 2009

3.3 Test condition:

EUT tested in accordance with the specifications given by the manufacturer, and exercised in the most unfavorable manner.

3.4 Radiated Emissions Limits:

Frequency range (MHz)	Peak(dBuV)
30 to 88	**40**
88 to 216	**43.5**
216 to 960	**46**
Above 960	**54**

3.5 Measurement Data of Radiated Emissions:

3.5.1 Open Field Radiated Emissions (Subpart C)

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following.

Applicant : Motorola Inc
Model No : H790
EUT : Universal Bluetooth Headset
Test Mode : Link Mode _ Bluetooth 2.0 Low CH / Middle CH / Light CH
Test Date : 05/14/2009 ~ 05/15/2009

Please refer to next pager of detail testing data.

Notes:

1. Margin= Amplitude - Limits
2. Distance of Measurement: 3 Meter (30-1000MHz) & (1-10GHz), 1 Meter (10-26.5GHz)
3. Height of table for EUT placed: 0.8 Meter.
4. ANT= Antenna height.
5. Amplitude= Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
   (Auto calculate in spectrum analyzer)
6. The EUT was worst case on X axis after pretest on X & Y & Z axis setting.
7. The testing data only show below 18GHz's data because measure data above 18GHz was only ambit noise.
8. All frequencies from 30MHz to 26.5GHz have been tested

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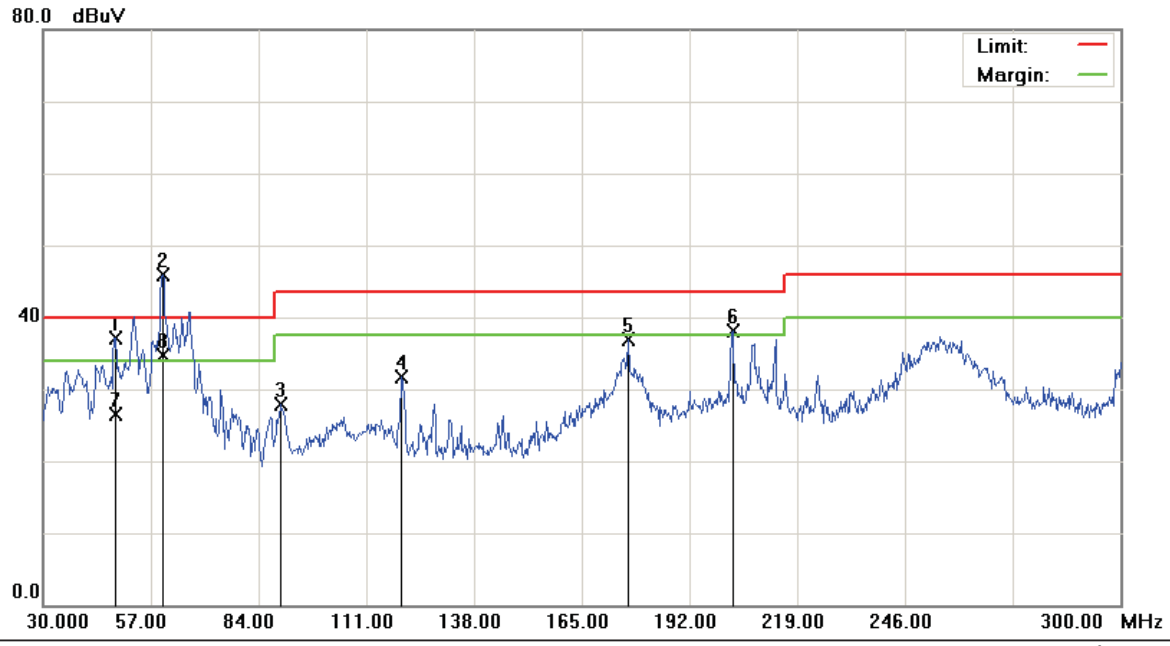

Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT
Note: 2402MHz

Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1	!	48.0900	49.12	-12.04	37.08	40.00	-2.92	peak			
2	*	59.9700	58.43	-12.54	45.89	40.00	5.89	peak			
3		89.6700	41.17	-13.28	27.89	43.50	-15.61	peak			
4		119.9100	45.97	-14.18	31.79	43.50	-11.71	peak			
5		176.6100	51.36	-14.53	36.83	43.50	-6.67	peak			
6	!	202.8000	51.20	-13.11	38.09	43.50	-5.41	peak			
7		48.0900	38.63	-12.04	26.59	40.00	-13.41	QP	102	13	
8	!	59.9700	47.30	-12.54	34.76	40.00	-5.24	QP	102	123	

*:Maximum data x:Over limit !:over margin ●Reference Only

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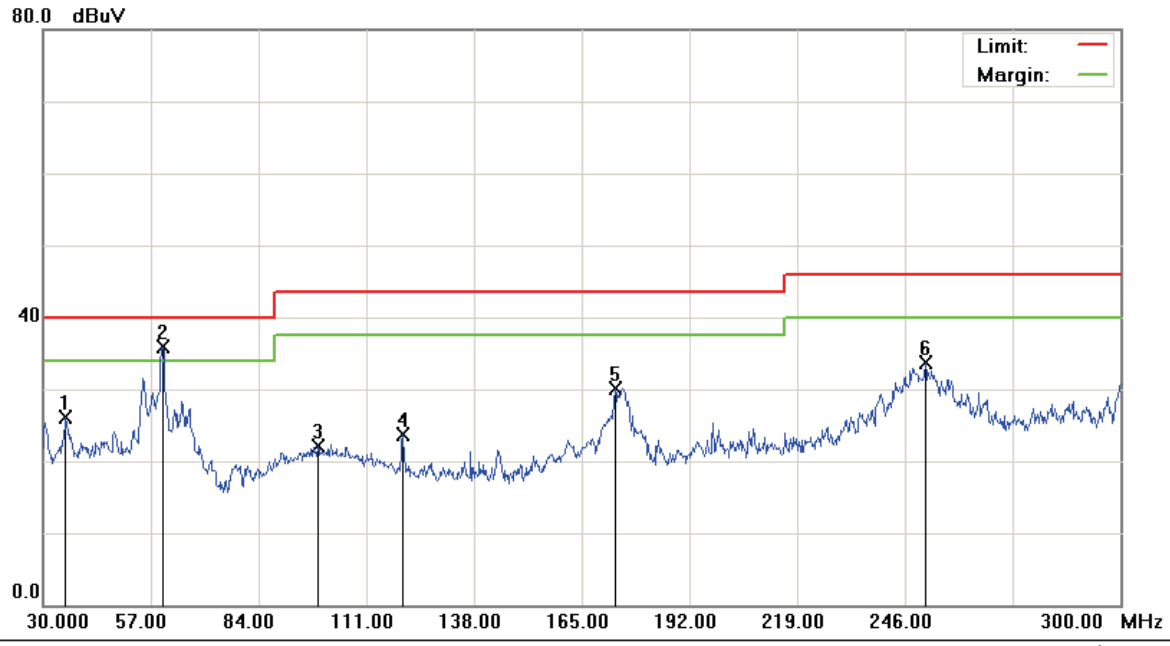


Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT
Note: 2402MHz

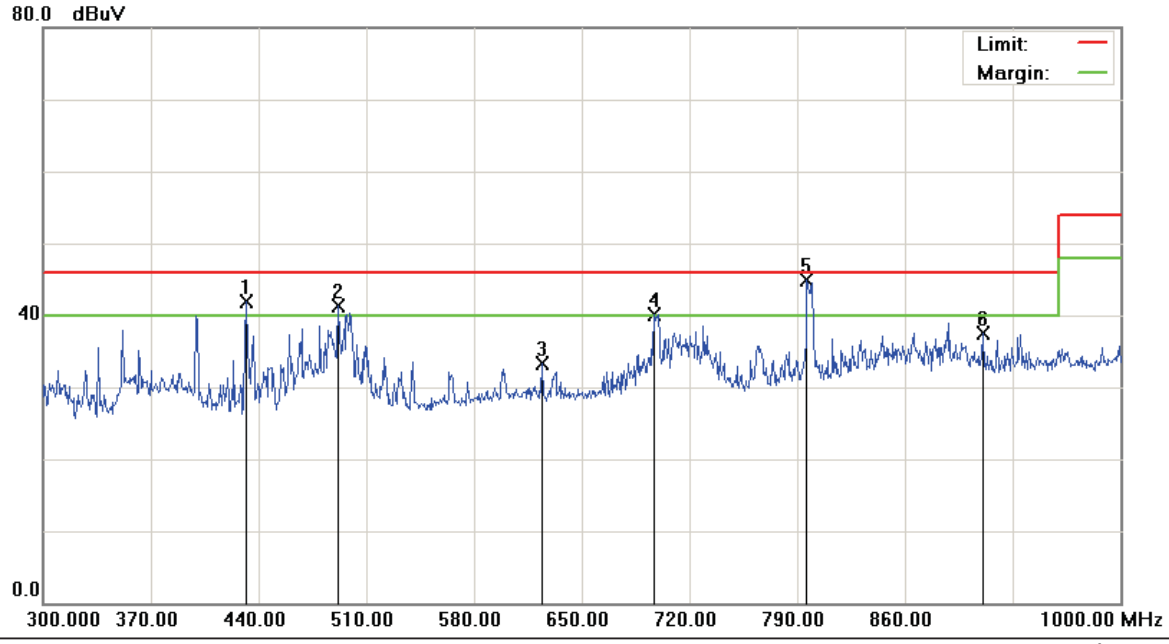
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		35.6700	39.19	-13.02	26.17	40.00	-13.83	peak			
2	*	59.9700	48.38	-12.54	35.84	40.00	-4.16	peak			
3		98.8500	33.84	-11.82	22.02	43.50	-21.48	peak			
4		120.1800	37.85	-14.23	23.62	43.50	-19.88	peak			
5		173.3700	45.07	-14.89	30.18	43.50	-13.32	peak			
6		251.1300	44.52	-10.89	33.63	46.00	-12.37	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(BT) Data :#2 Date: 2009/5/15 Time: 上午 02:54:16



Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT
Note: 2402MHz

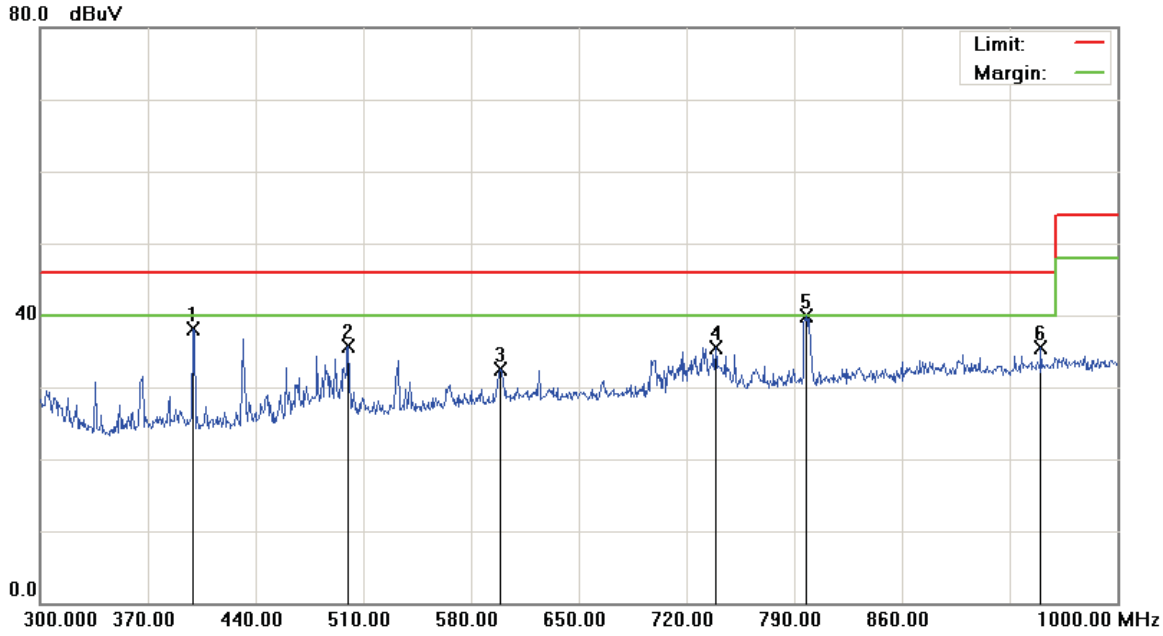
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1	!	431.6000	49.86	-8.03	41.83	46.00	-4.17	peak			
2	!	491.8000	48.54	-7.20	41.34	46.00	-4.66	peak			
3		624.1000	37.93	-4.60	33.33	46.00	-12.67	peak			
4	!	696.9000	43.98	-3.85	40.13	46.00	-5.87	peak			
5	*	796.3000	47.30	-2.35	44.95	46.00	-1.05	peak			
6		910.4000	37.48	-0.02	37.46	46.00	-8.54	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(BT) Data :#4 Date: 2009/5/15 Time: 上午 03:02:43



Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT
Note: 2402MHz

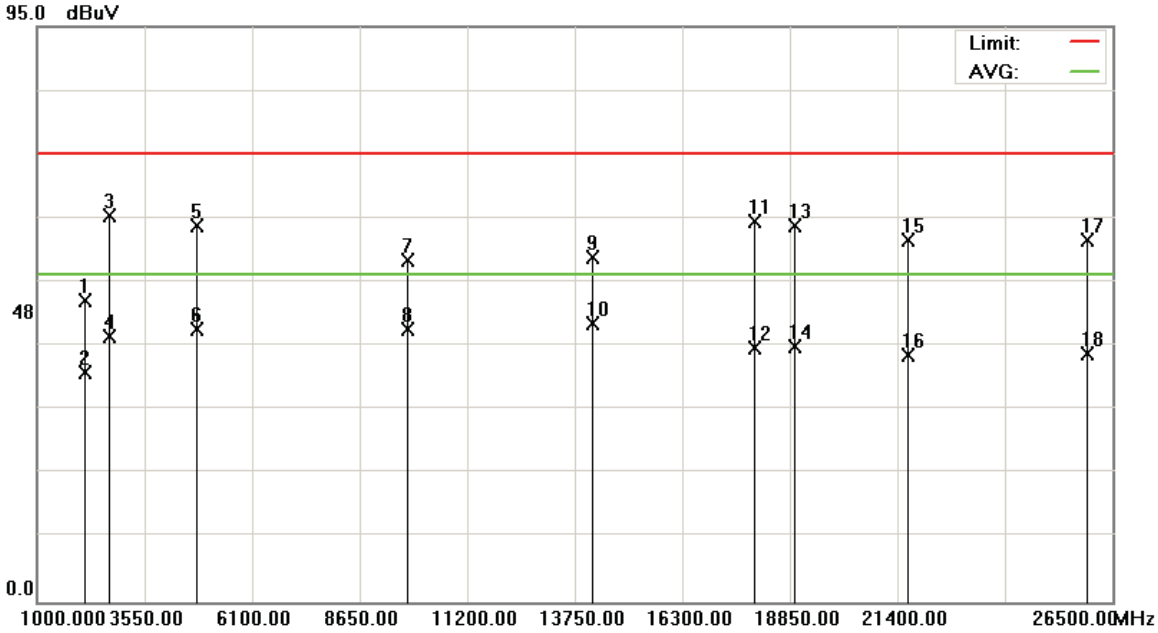
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		399.4000	46.42	-8.34	38.08	46.00	-7.92	peak			
2		500.2000	42.88	-7.17	35.71	46.00	-10.29	peak			
3		598.9000	37.49	-4.90	32.59	46.00	-13.41	peak			
4		738.9000	38.85	-3.28	35.57	46.00	-10.43	peak			
5	*	797.7000	42.18	-2.34	39.84	46.00	-6.16	peak			
6		950.3000	35.23	0.21	35.44	46.00	-10.56	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(2402)Z Data :#17 Date: 2009/5/14 Time: 下午 08:04:03



Site: site #1 Polarization: *Vertical* Temperature: 22 ℃

Limit: FCC part 15 (PK) Power: Humidity: 60 %

EUT: Distance: 3m

M/N: 09-0031-EO

Mode: BT(2.0)

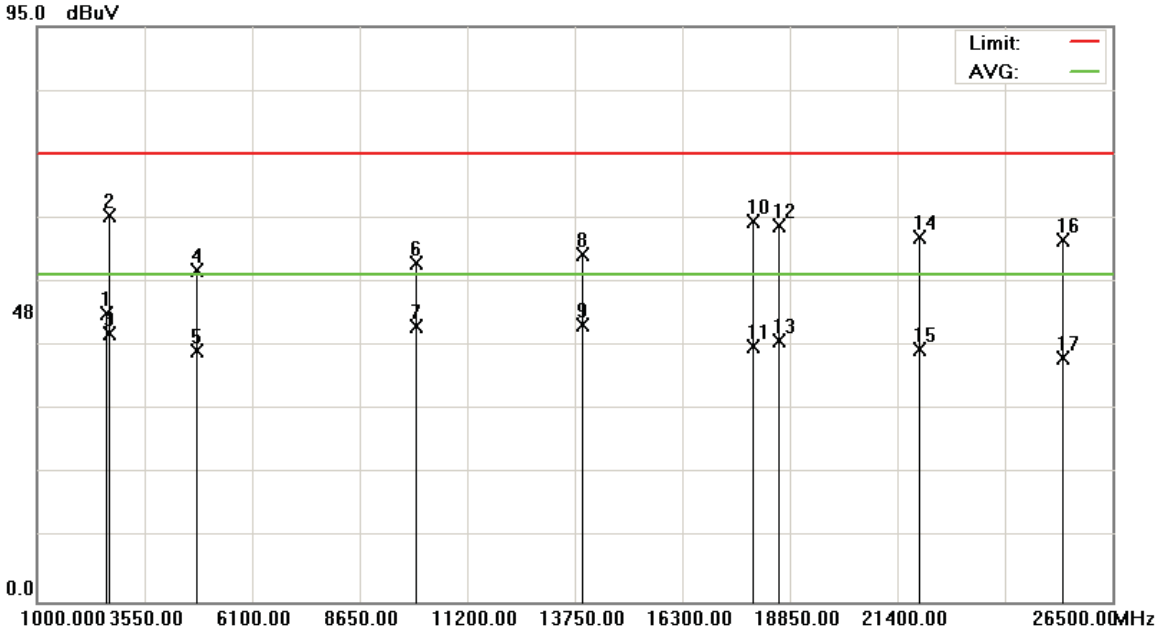
Note: 2402MHz，Antenna100cm，NB01

10G - 18G AV PRE Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		2130.500	49.93	-0.23	49.70	74.00	-24.30	peak			
2		2130.500	38.21	-0.23	37.98	54.00	-16.02	AVG			
3		2700.000	41.29	22.58	63.87	74.00	-10.13	peak			
4		2700.000	21.27	22.58	43.85	54.00	-10.15	AVG			
5		4798.750	54.90	7.29	62.19	74.00	-11.81	peak			
6		4798.750	37.79	7.29	45.08	54.00	-8.92	AVG			
7		9762.750	38.72	17.70	56.42	74.00	-17.58	peak			
8		9762.750	27.36	17.70	45.06	54.00	-8.94	AVG			
9		14160.000	28.50	28.37	56.87	74.00	-17.13	peak			
10	*	14160.000	17.56	28.37	45.93	54.00	-8.07	AVG			
11		18000.000	27.76	35.11	62.87	74.00	-11.13	peak			
12		18000.000	6.77	35.11	41.88	54.00	-12.12	AVG			
13		18935.000	39.01	23.13	62.14	74.00	-11.86	peak			
14		18935.000	19.12	23.13	42.25	54.00	-11.75	AVG			
15		21655.000	38.38	21.27	59.65	74.00	-14.35	peak			
16		21655.000	19.39	21.27	40.66	54.00	-13.34	AVG			
17		25905.000	41.02	18.63	59.65	74.00	-14.35	peak			
18		25905.000	22.40	18.63	41.03	54.00	-12.97	AVG			

*:Maximum data x:Over limit !:over margin

File :H790(2402)Z Data :#18 Date: 2009/5/14 Time: 下午 08:07:58



Site: site #1 Polarization: *Horizontal* Temperature: 22 ℃

Limit: FCC part 15 (PK) Power: Humidity: 60 %

EUT: Distance: 3m

M/N: 09-0031-EO

Mode: BT(2.0)

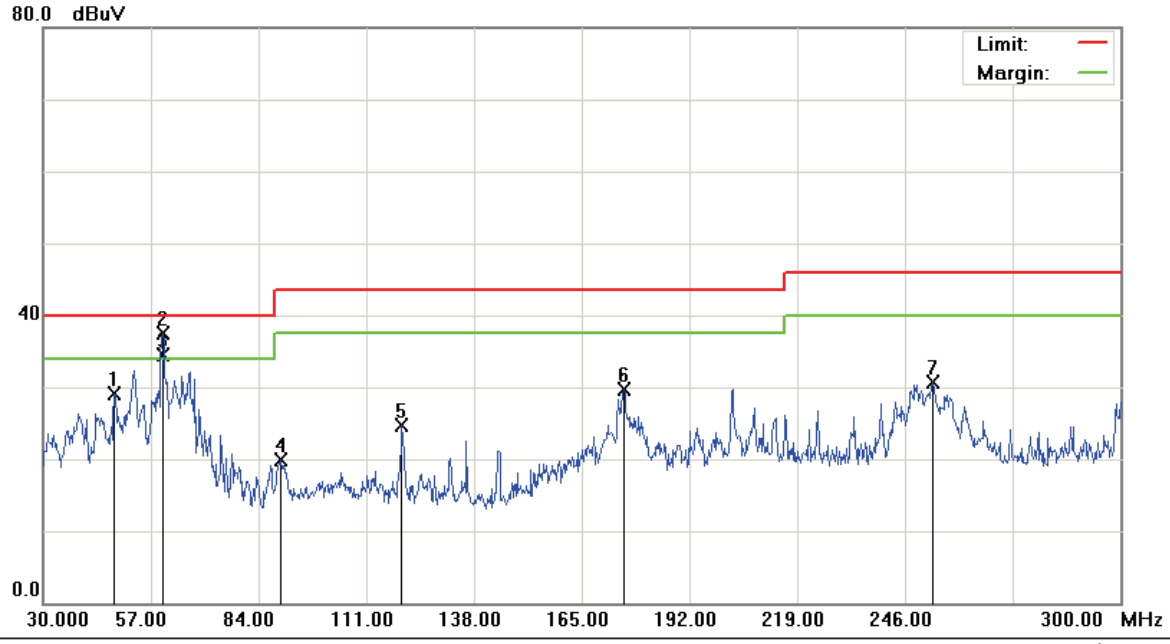
Note: 2402MHz，Antenna100cm，NB01

10G - 18G AV PRE Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		2645.600	46.61	0.97	47.58	74.00	-26.42	peak			
2		2700.000	41.30	22.58	63.88	74.00	-10.12	peak			
3		2700.000	21.83	22.58	44.41	54.00	-9.59	AVG			
4		4798.750	47.43	7.29	54.72	74.00	-19.28	peak			
5		4798.750	34.06	7.29	41.35	54.00	-12.65	AVG			
6		10000.000	38.01	17.94	55.95	74.00	-18.05	peak			
7		10000.000	27.45	17.94	45.39	54.00	-8.61	AVG			
8		13920.000	29.35	28.08	57.43	74.00	-16.57	peak			
9	*	13920.000	17.54	28.08	45.62	54.00	-8.38	AVG			
10		17980.000	28.17	34.75	62.92	74.00	-11.08	peak			
11		17980.000	7.52	34.75	42.27	54.00	-11.73	AVG			
12		18595.000	39.10	23.07	62.17	74.00	-11.83	peak			
13		18595.000	19.94	23.07	43.01	74.00	-30.99	peak			
14		21888.750	39.01	21.18	60.19	74.00	-13.81	peak			
15		21888.750	20.44	21.18	41.62	74.00	-32.38	peak			
16		25310.000	40.57	19.10	59.67	74.00	-14.33	peak			
17		25310.000	21.22	19.10	40.32	74.00	-33.68	peak			

*:Maximum data x:Over limit !:over margin

File :H790(BT) Data :#5 Date: 2009/5/15 Time: 上午 03:26:14



Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT
Note: 2441MHz

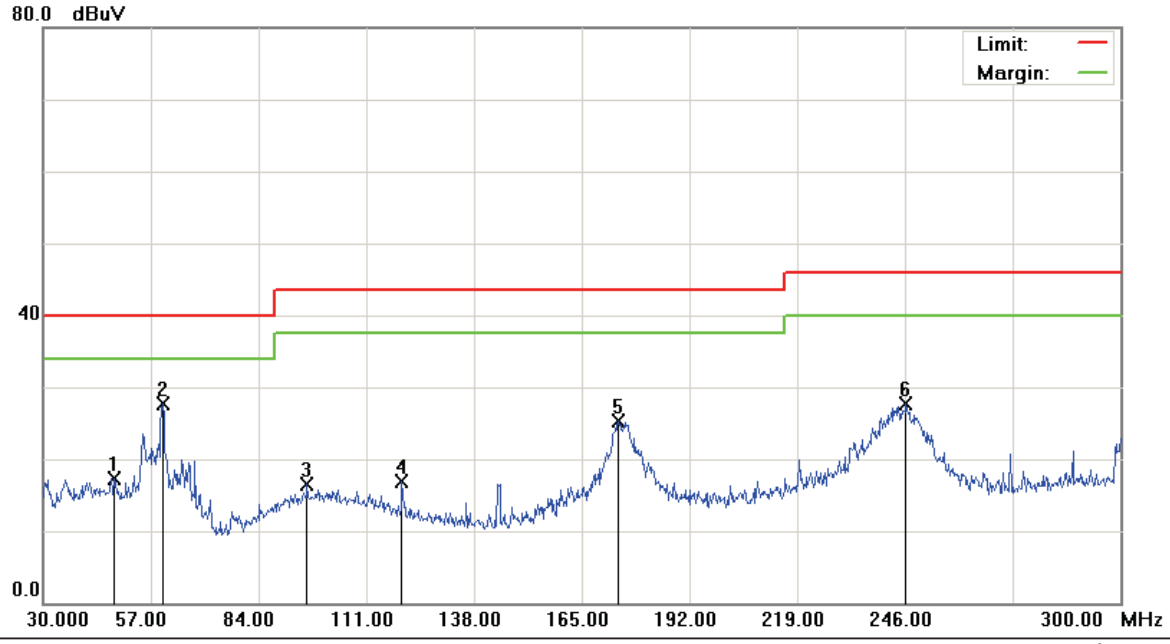
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		47.8200	41.13	-12.02	29.11	40.00	-10.89	peak			
2	*	59.9700	50.01	-12.54	37.47	40.00	-2.53	peak			
3	!	59.9700	47.00	-12.54	34.46	40.00	-5.54	QP			
4		89.6700	33.23	-13.28	19.95	43.50	-23.55	peak			
5		119.9100	38.91	-14.18	24.73	43.50	-18.77	peak			
6		175.5300	44.25	-14.60	29.65	43.50	-13.85	peak			
7		253.0200	41.82	-11.02	30.80	46.00	-15.20	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(BT) Data :#7 Date: 2009/5/15 Time: 上午 03:34:40



Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT
Note: 2441MHz

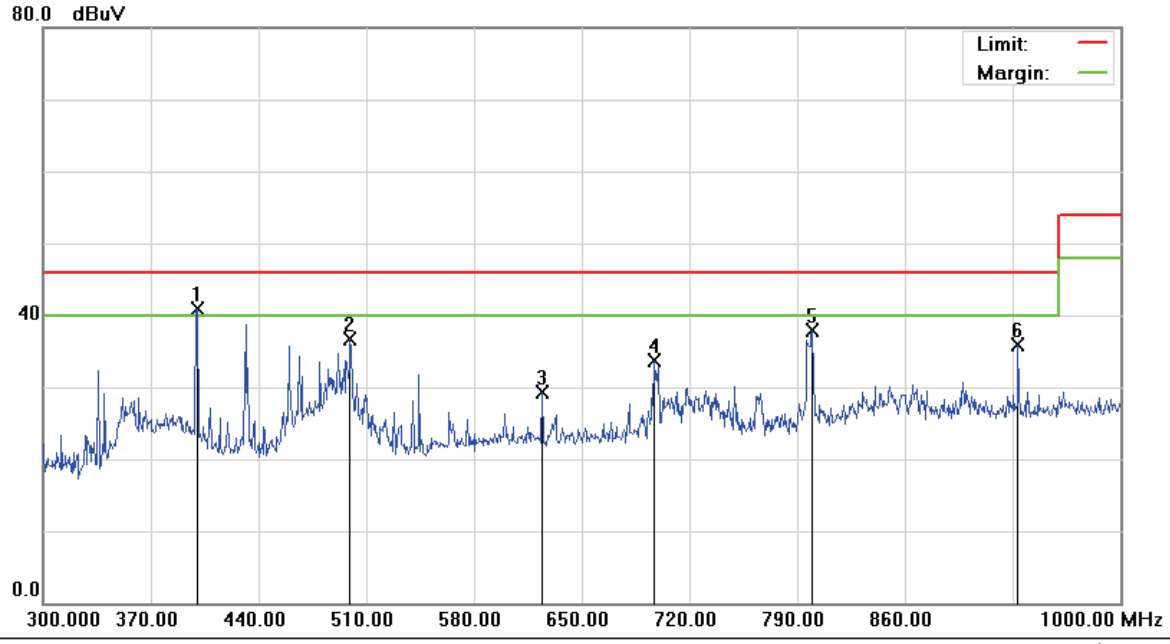
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		47.8200	29.38	-12.02	17.36	40.00	-22.64	peak			
2	*	59.9700	40.24	-12.54	27.70	40.00	-12.30	peak			
3		96.1500	28.39	-11.98	16.41	43.50	-27.09	peak			
4		119.9100	31.12	-14.18	16.94	43.50	-26.56	peak			
5		174.1800	40.06	-14.76	25.30	43.50	-18.20	peak			
6		246.2700	38.84	-11.15	27.69	46.00	-18.31	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(BT) Data :#6 Date: 2009/5/15 Time: 上午 03:30:27



Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT
Note: 2441MHz

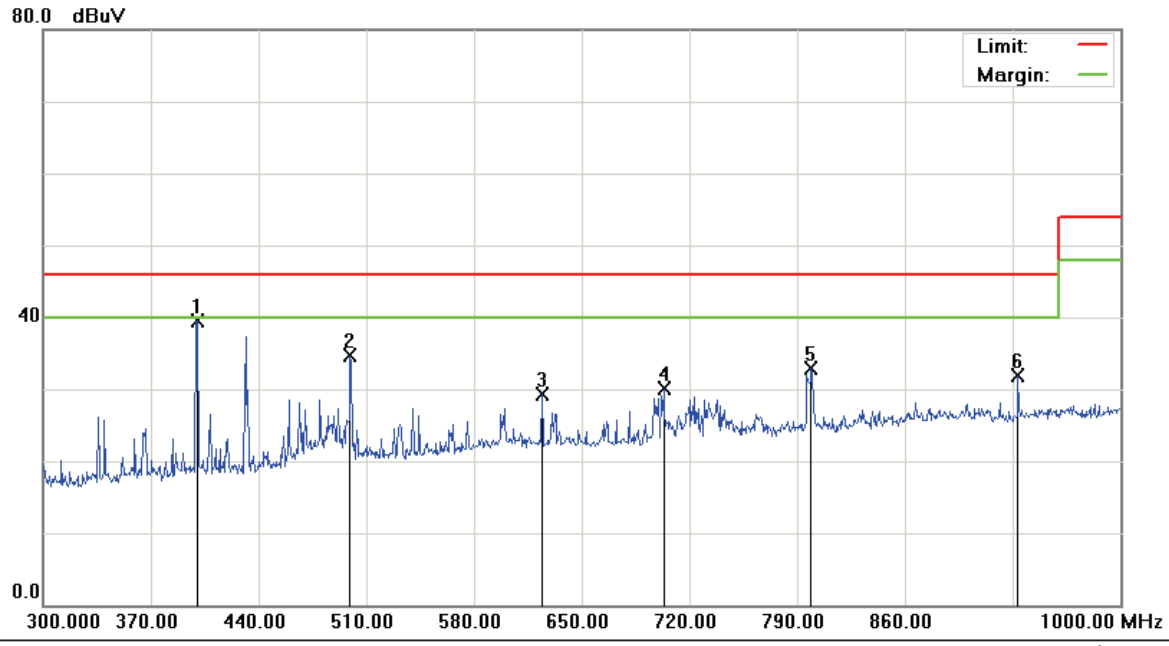
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1	*	400.1000	49.23	-8.33	40.90	46.00	-5.10	peak			
2		499.5000	43.94	-7.17	36.77	46.00	-9.23	peak			
3		624.1000	33.96	-4.60	29.36	46.00	-16.64	peak			
4		696.9000	37.53	-3.85	33.68	46.00	-12.32	peak			
5		799.8000	40.20	-2.32	37.88	46.00	-8.12	peak			
6		933.5000	36.06	-0.11	35.95	46.00	-10.05	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(BT) Data :#8 Date: 2009/5/15 Time: 上午 03:38:54



Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT
Note: 2441MHz

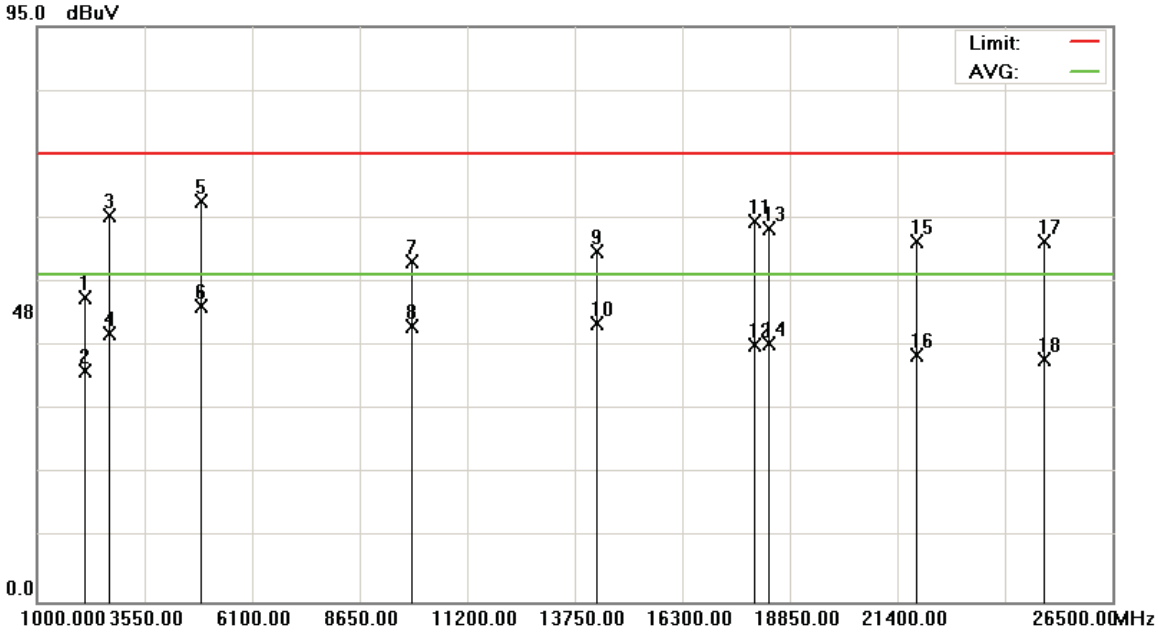
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1	*	400.1000	47.86	-8.33	39.53	46.00	-6.47	peak			
2		499.5000	41.79	-7.17	34.62	46.00	-11.38	peak			
3		624.1000	33.83	-4.60	29.23	46.00	-16.77	peak			
4		703.2000	34.01	-3.96	30.05	46.00	-15.95	peak			
5		799.1000	35.15	-2.32	32.83	46.00	-13.17	peak			
6		933.5000	31.95	-0.11	31.84	46.00	-14.16	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(2441)Z Data :#17 Date: 2009/5/14 Time: 下午 08:49:05



Site: site #1 Polarization: *Vertical* Temperature: 22 ℃

Limit: FCC part 15 (PK) Power: Humidity: 60 %

EUT: Distance: 3m

M/N: 09-0031-EO

Mode: BT(2.0)

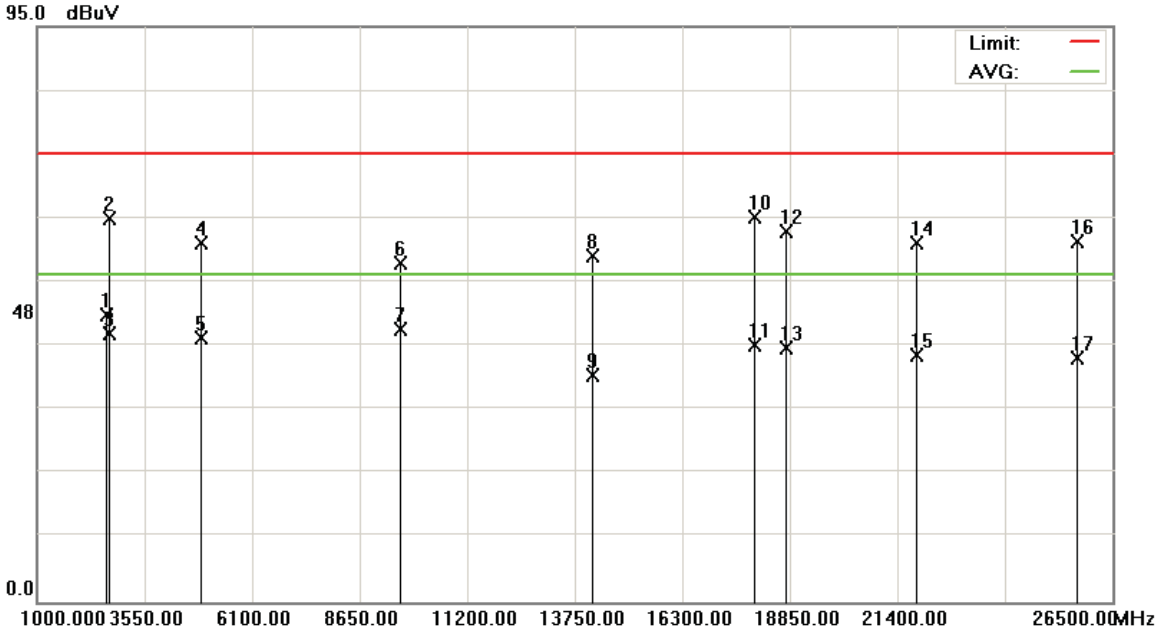
Note: 2441MHz，Antenna100cm，NB01

10G - 18G AV PRE Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		2125.400	50.52	-0.28	50.24	74.00	-23.76	peak			
2		2125.400	38.45	-0.28	38.17	54.00	-15.83	AVG			
3		2700.000	41.23	22.58	63.81	74.00	-10.19	peak			
4		2700.000	21.83	22.58	44.41	54.00	-9.59	AVG			
5		4890.000	58.51	7.73	66.24	74.00	-7.76	peak			
6	*	4890.000	41.19	7.73	48.92	54.00	-5.08	AVG			
7		9872.250	38.32	17.84	56.16	74.00	-17.84	peak			
8		9872.250	27.63	17.84	45.47	54.00	-8.53	AVG			
9		14280.000	39.12	18.63	57.75	74.00	-16.25	peak			
10		14280.000	27.21	18.63	45.84	54.00	-8.16	AVG			
11		18000.000	37.36	25.57	62.93	74.00	-11.07	peak			
12		18000.000	16.85	25.57	42.42	54.00	-11.58	AVG			
13		18361.250	38.44	23.16	61.60	74.00	-12.40	peak			
14		18361.250	19.59	23.16	42.75	54.00	-11.25	AVG			
15		21846.250	38.39	21.20	59.59	74.00	-14.41	peak			
16		21846.250	19.57	21.20	40.77	54.00	-13.23	AVG			
17		24863.750	40.11	19.50	59.61	74.00	-14.39	peak			
18		24863.750	20.47	19.50	39.97	54.00	-14.03	AVG			

*:Maximum data x:Over limit !:over margin

File :H790(2441)Z Data :#18 Date: 2009/5/14 Time: 下午 08:53:09



Site: site #1
Limit: FCC part 15 (PK)
EUT:
M/N: 09-0031-EO
Mode: BT(2.0)
Note: 2441MHz，Antenna100cm，NB01
10G - 18G AV PRE Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

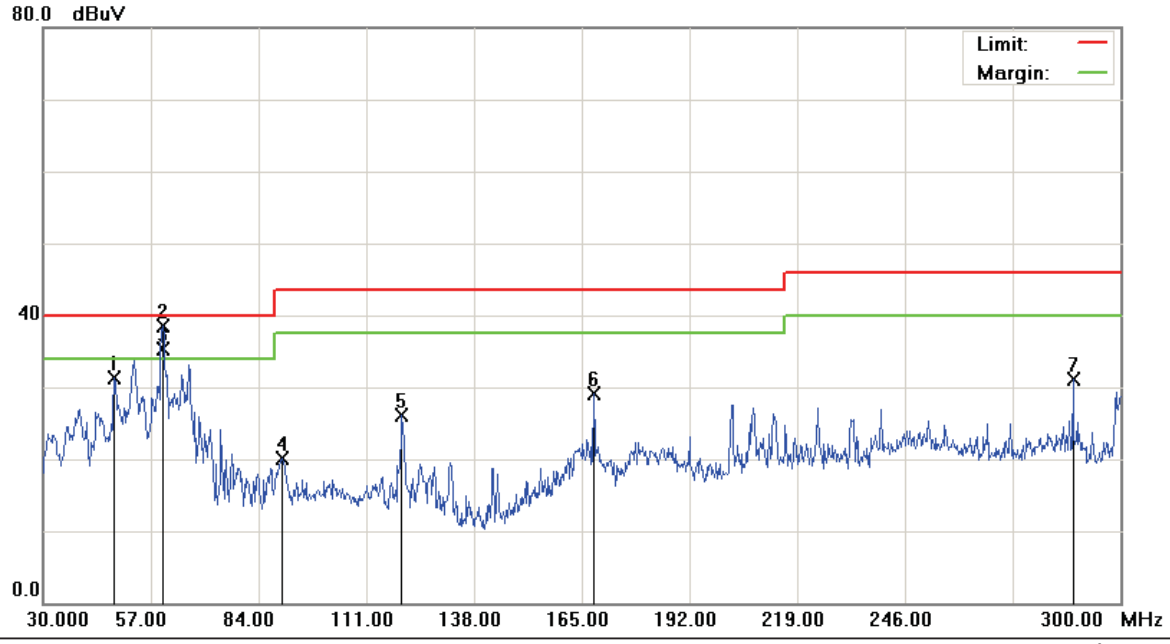
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		2654.100	46.36	0.94	47.30	74.00	-26.70	peak			
2		2700.000	40.65	22.58	63.23	74.00	-10.77	peak			
3		2700.000	21.63	22.58	44.21	54.00	-9.79	AVG			
4		4890.000	51.42	7.73	59.15	74.00	-14.85	peak			
5		4890.000	35.78	7.73	43.51	54.00	-10.49	AVG			
6		9598.500	38.51	17.41	55.92	74.00	-18.08	peak			
7	*	9598.500	27.67	17.41	45.08	54.00	-8.92	AVG			
8		14140.000	38.25	18.84	57.09	74.00	-16.91	peak			
9		14140.000	18.65	18.84	37.49	54.00	-16.51	AVG			
10		18000.000	38.03	25.57	63.60	74.00	-10.40	peak			
11		18000.000	16.84	25.57	42.41	54.00	-11.59	AVG			
12		18765.000	38.13	23.13	61.26	74.00	-12.74	peak			
13		18765.000	18.90	23.13	42.03	54.00	-11.97	AVG			
14		21846.250	38.17	21.20	59.37	74.00	-14.63	peak			
15		21846.250	19.56	21.20	40.76	54.00	-13.24	AVG			
16		25650.000	40.51	18.87	59.38	74.00	-14.62	peak			
17		25650.000	21.47	18.87	40.34	54.00	-13.66	AVG			

*:Maximum data x:Over limit !:over margin

File :H790(BT) Data :#9 Date: 2009/5/15 Time: 上午 09:34:55



Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT
Note: 2480MHz

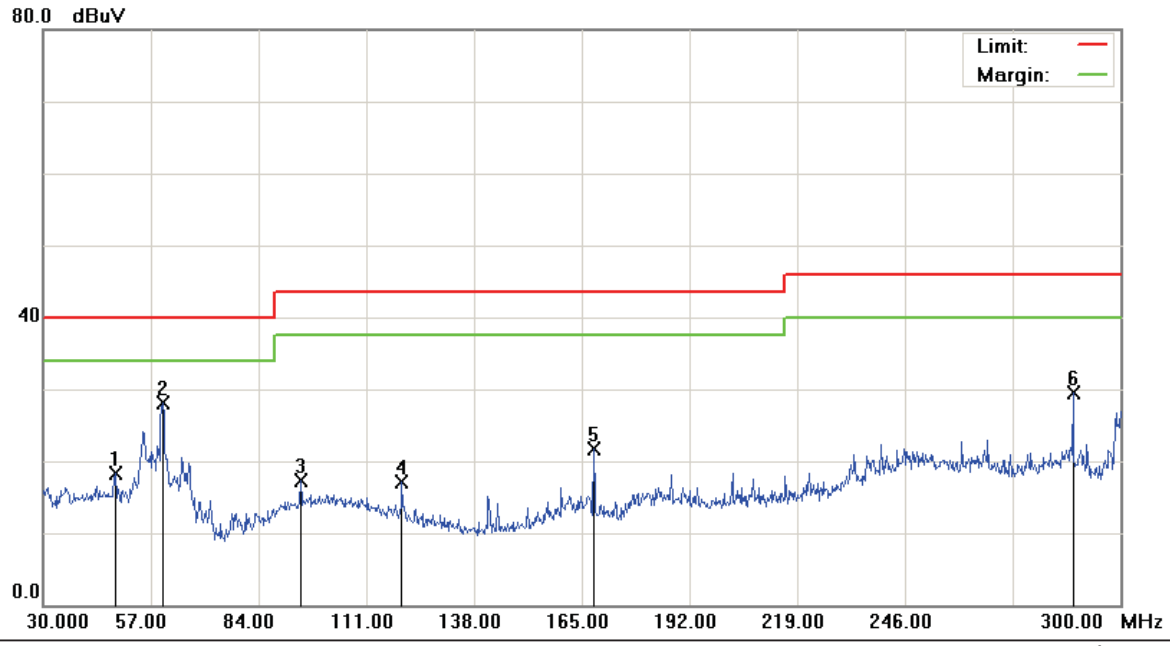
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		47.8200	43.31	-12.02	31.29	40.00	-8.71	peak			
2	*	59.9700	51.08	-12.54	38.54	40.00	-1.46	peak			
3	!	59.9700	47.83	-12.54	35.29	40.00	-4.71	QP			
4		89.9400	33.34	-13.20	20.14	43.50	-23.36	peak			
5		119.9100	40.26	-14.18	26.08	43.50	-17.42	peak			
6		167.9700	44.48	-15.37	29.11	43.50	-14.39	peak			
7		288.1200	41.27	-10.12	31.15	46.00	-14.85	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(BT) Data :#11 Date: 2009/5/15 Time: 上午 09:43:21



Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT
Note: 2480MHz

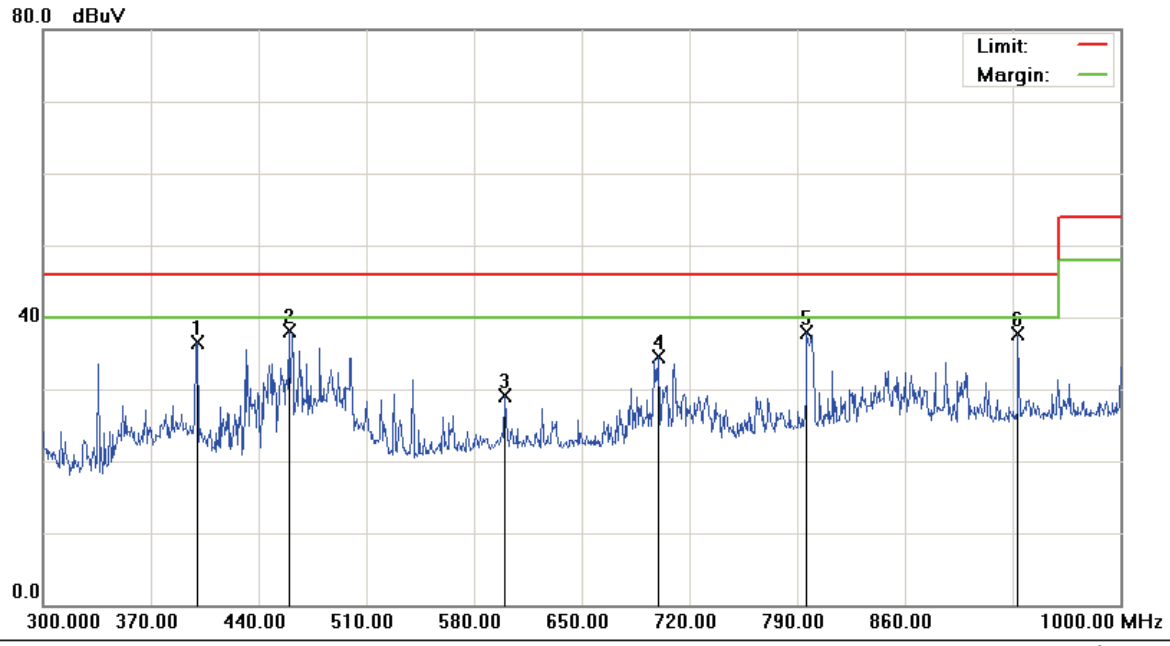
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		48.0900	30.35	-12.04	18.31	40.00	-21.69	peak			
2	*	59.9700	40.66	-12.54	28.12	40.00	-11.88	peak			
3		94.5300	29.52	-12.15	17.37	43.50	-26.13	peak			
4		119.9100	31.23	-14.18	17.05	43.50	-26.45	peak			
5		167.9700	37.03	-15.37	21.66	43.50	-21.84	peak			
6		288.1200	39.69	-10.12	29.57	46.00	-16.43	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(BT) Data :#10 Date: 2009/5/15 Time: 上午 09:39:08



Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT
Note: 2480MHz

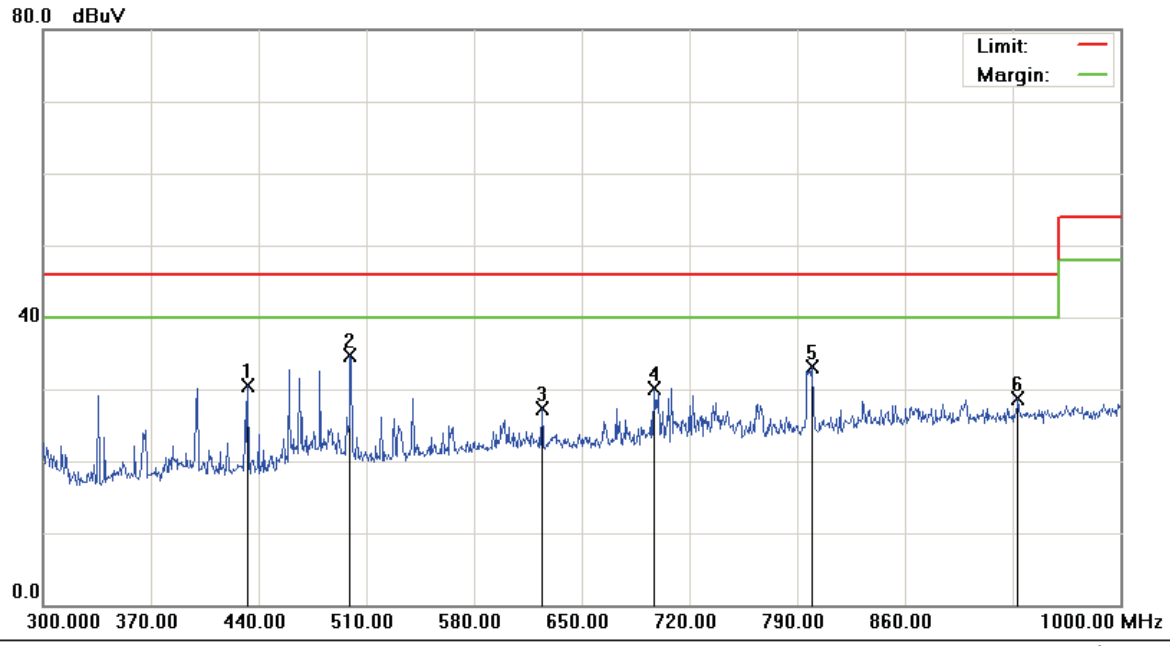
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		400.1000	44.90	-8.33	36.57	46.00	-9.43	peak			
2	*	459.6000	46.01	-7.87	38.14	46.00	-7.86	peak			
3		600.3000	34.05	-4.89	29.16	46.00	-16.84	peak			
4		699.7000	38.41	-3.86	34.55	46.00	-11.45	peak			
5		796.3000	40.17	-2.35	37.82	46.00	-8.18	peak			
6		933.5000	37.73	-0.11	37.62	46.00	-8.38	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(BT) Data :#12 Date: 2009/5/15 Time: 上午 09:47:35



Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT
Note: 2480MHz

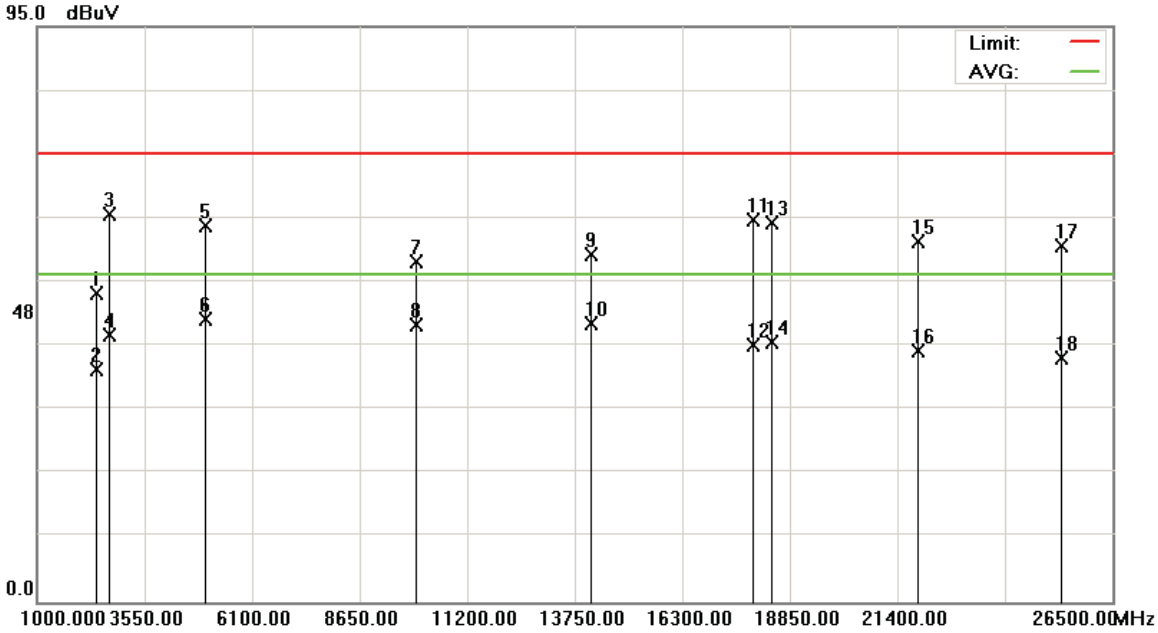
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		433.0000	38.50	-8.01	30.49	46.00	-15.51	peak			
2	*	499.5000	41.78	-7.17	34.61	46.00	-11.39	peak			
3		624.1000	31.83	-4.60	27.23	46.00	-18.77	peak			
4		696.9000	34.00	-3.85	30.15	46.00	-15.85	peak			
5		799.8000	35.51	-2.32	33.19	46.00	-12.81	peak			
6		933.5000	28.74	-0.11	28.63	46.00	-17.37	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(2480)Z Data :#17 Date: 2009/5/14 Time: 下午 08:57:24



Site: site #1 Polarization: *Vertical* Temperature: 22 ℃

Limit: FCC part 15 (PK) Power: Humidity: 60 %

EUT: Distance: 3m

M/N: 09-0031-EO

Mode: BT(2.0)

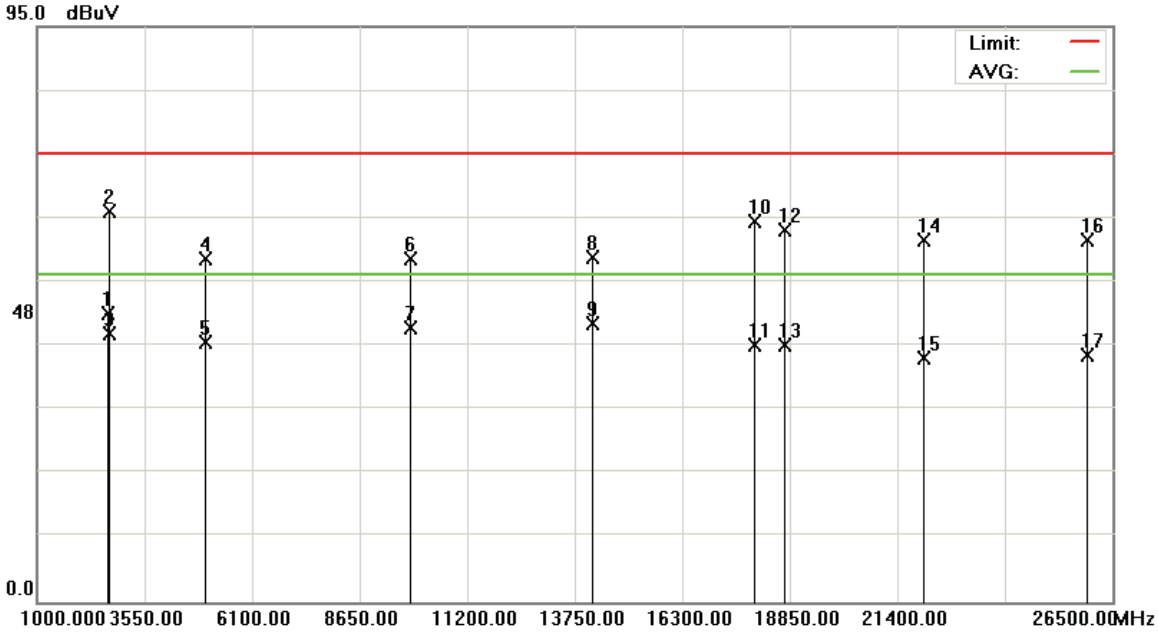
Note: 2480MHz，Antenna100cm，NB01

10G - 18G AV PRE Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		2399.100	50.84	0.12	50.96	74.00	-23.04	peak			
2		2399.100	38.35	0.12	38.47	74.00	-35.53	peak			
3		2700.000	41.37	22.58	63.95	74.00	-10.05	peak			
4		2700.000	21.49	22.58	44.07	54.00	-9.93	AVG			
5		4963.000	54.24	7.82	62.06	74.00	-11.94	peak			
6	*	4963.000	38.87	7.82	46.69	54.00	-7.31	AVG			
7		9981.750	38.27	17.88	56.15	74.00	-17.85	peak			
8		9981.750	27.84	17.88	45.72	54.00	-8.28	AVG			
9		14120.000	38.59	18.87	57.46	74.00	-16.54	peak			
10		14120.000	27.14	18.87	46.01	54.00	-7.99	AVG			
11		17980.000	37.89	25.21	63.10	74.00	-10.90	peak			
12		17980.000	17.26	25.21	42.47	54.00	-11.53	AVG			
13		18403.750	39.33	23.15	62.48	74.00	-11.52	peak			
14		18403.750	19.66	23.15	42.81	54.00	-11.19	AVG			
15		21867.500	38.29	21.19	59.48	74.00	-14.52	peak			
16		21867.500	20.32	21.19	41.51	54.00	-12.49	AVG			
17		25267.500	39.71	19.13	58.84	74.00	-15.16	peak			
18		25267.500	21.04	19.13	40.17	54.00	-13.83	AVG			

*:Maximum data x:Over limit !:over margin

File :H790(2480)Z Data :#18 Date: 2009/5/14 Time: 下午 09:01:11



Site: site #1 Polarization: *Horizontal* Temperature: 22 ℃

Limit: FCC part 15 (PK) Power: Humidity: 60 %

EUT: Distance: 3m

M/N: 09-0031-EO

Mode: BT(2.0)

Note: 2480MHz，Antenna100cm，NB01

10G - 18G AV PRE Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		2666.000	46.59	0.98	47.57	74.00	-26.43	peak			
2		2700.000	41.79	22.58	64.37	74.00	-9.63	peak			
3		2700.000	21.82	22.58	44.40	54.00	-9.60	AVG			
4		4963.000	48.91	7.82	56.73	74.00	-17.27	peak			
5		4963.000	34.96	7.82	42.78	54.00	-11.22	AVG			
6		9835.750	38.84	17.83	56.67	74.00	-17.33	peak			
7		9835.750	27.53	17.83	45.36	54.00	-8.64	AVG			
8		14140.000	38.03	18.84	56.87	74.00	-17.13	peak			
9	*	14140.000	27.13	18.84	45.97	54.00	-8.03	AVG			
10		18000.000	37.22	25.57	62.79	74.00	-11.21	peak			
11		18000.000	16.90	25.57	42.47	54.00	-11.53	AVG			
12		18701.250	38.34	23.11	61.45	74.00	-12.55	peak			
13		18701.250	19.34	23.11	42.45	54.00	-11.55	AVG			
14		21995.000	38.51	21.12	59.63	74.00	-14.37	peak			
15		21995.000	19.14	21.12	40.26	54.00	-13.74	AVG			
16		25905.000	41.05	18.63	59.68	74.00	-14.32	peak			
17		25905.000	22.15	18.63	40.78	54.00	-13.22	AVG			

*:Maximum data x:Over limit !:over margin

3.5.2 Open Field Radiated Emissions (Subpart C)

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following

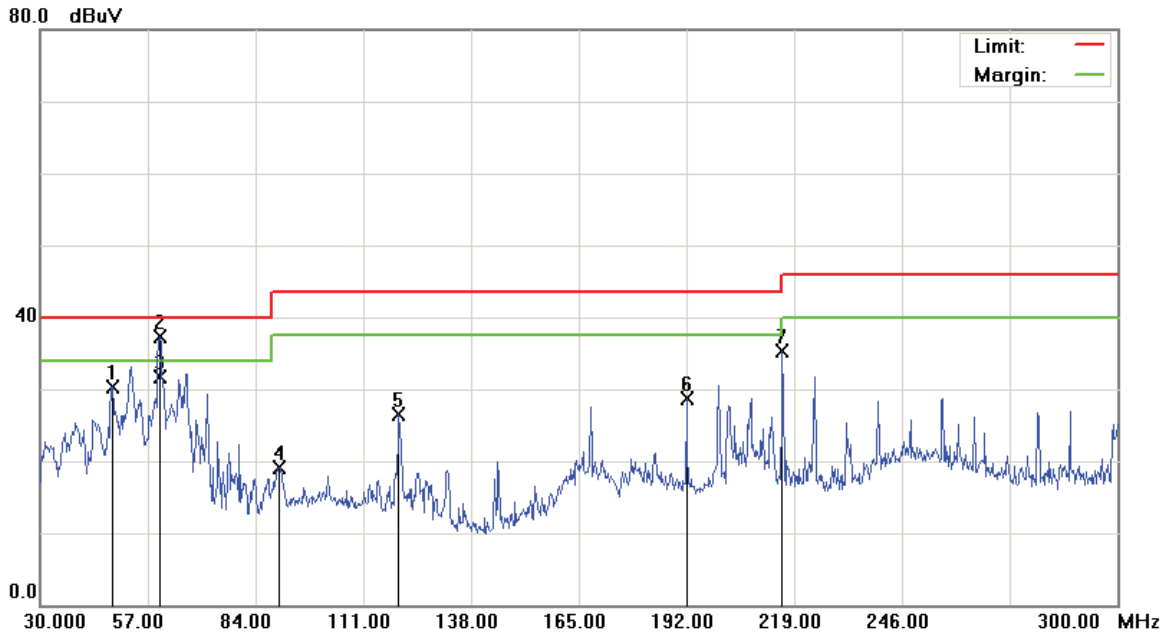
Applicant : Motorola Inc
Model No : H790
EUT : Universal Bluetooth Headset
Test Mode : Link Mode _ Bluetooth EDR Low CH / Middle CH / Light CH
Test Date : 05/14/2009 ~ 05/15/2009

Please refer to next pager of detail testing data.

Notes:

1. Margin= Amplitude - Limits
2. Distance of Measurement: 3 Meter (30-1000MHz) & (1-10GHz), 1 Meter (10-26.5GHz)
3. Height of table for EUT placed: 0.8 Meter.
4. ANT= Antenna height.
5. Amplitude= Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
   (Auto calculate in spectrum analyzer)
6. The EUT was worst case on X axis after pretest on X & Y & Z axis setting.
7. The testing data only show below 18GHz's data because measure data above 18GHz was only ambit noise.
8. All frequencies from 30MHz to 26.5GHz have been tested

File :H790(BT) Data :#1 Date: 2009/5/15 Time: 上午 09:59:09



Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT+EDR
Note: 2402MHz

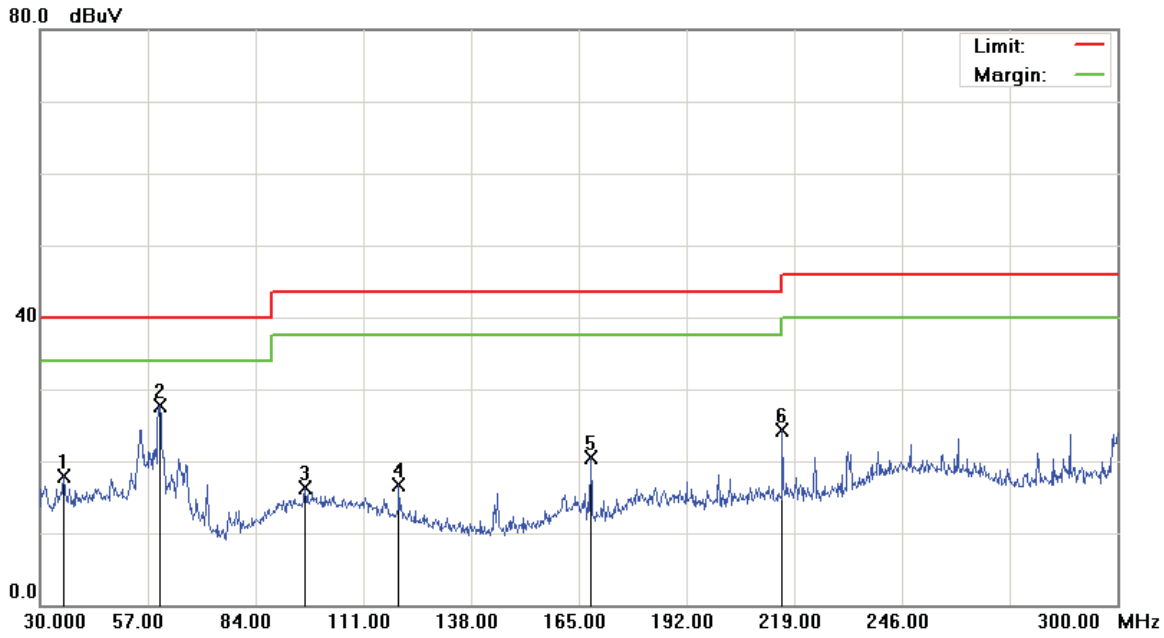
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		48.0900	42.36	-12.04	30.32	40.00	-9.68	peak			
2	*	59.9700	49.88	-12.54	37.34	40.00	-2.66	peak			
3		59.9700	44.27	-12.54	31.73	40.00	-8.27	QP			
4		89.9400	32.28	-13.20	19.08	43.50	-24.42	peak			
5		119.9100	40.73	-14.18	26.55	43.50	-16.95	peak			
6		192.0000	41.97	-13.26	28.71	43.50	-14.79	peak			
7		216.0300	47.97	-12.64	35.33	46.00	-10.67	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(BT) Data :#3 Date: 2009/5/15 Time: 上午 10:07:35



Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT+EDR
Note: 2402MHz

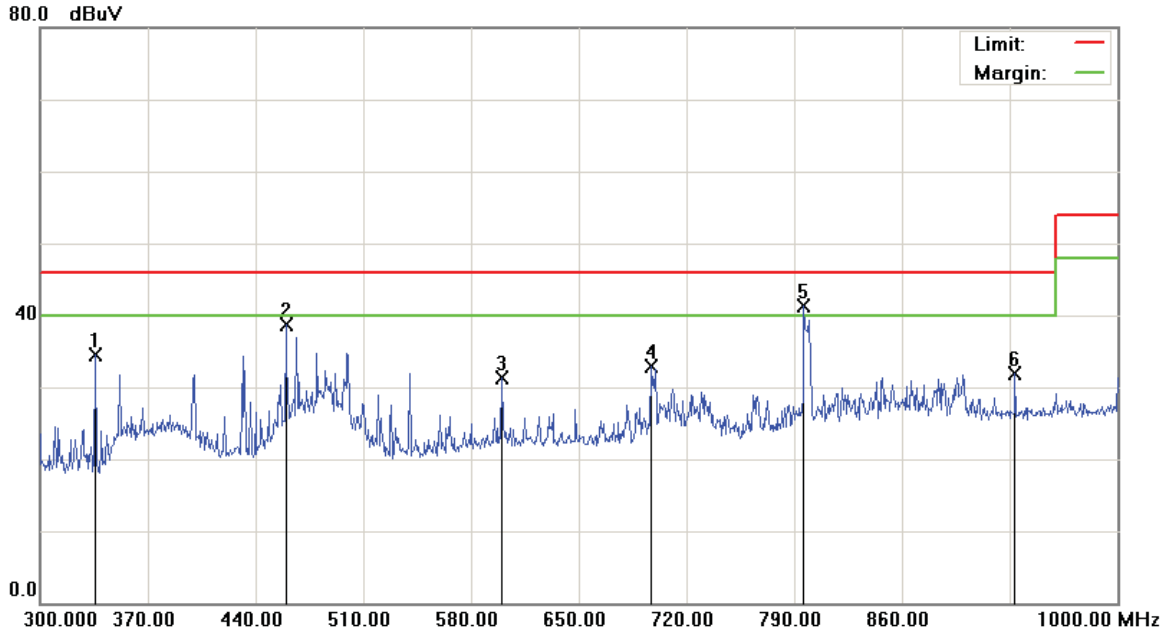
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		35.9400	30.94	-12.95	17.99	40.00	-22.01	peak			
2	*	59.9700	40.32	-12.54	27.78	40.00	-12.22	peak			
3		96.4200	28.20	-11.96	16.24	43.50	-27.26	peak			
4		119.9100	30.79	-14.18	16.61	43.50	-26.89	peak			
5		167.9700	35.83	-15.37	20.46	43.50	-23.04	peak			
6		216.0300	36.89	-12.64	24.25	46.00	-21.75	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(BT) Data :#2 Date: 2009/5/15 Time: 上午 10:03:23



Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT+EDR
Note: 2402MHz

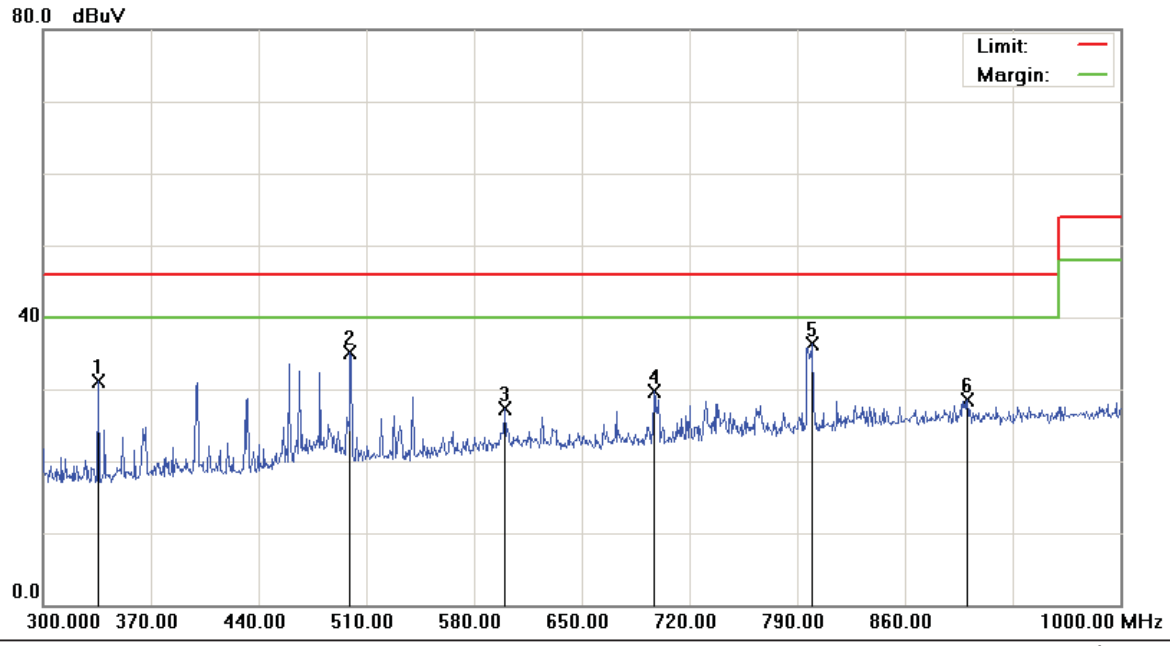
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		335.7000	43.74	-9.22	34.52	46.00	-11.48	peak			
2		459.6000	46.58	-7.87	38.71	46.00	-7.29	peak			
3		600.3000	36.23	-4.89	31.34	46.00	-14.66	peak			
4		696.9000	36.72	-3.85	32.87	46.00	-13.13	peak			
5	*	796.3000	43.66	-2.35	41.31	46.00	-4.69	peak			
6		933.5000	31.92	-0.11	31.81	46.00	-14.19	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(BT) Data :#4 Date: 2009/5/15 Time: 上午 10:11:50



Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT+EDR
Note: 2402MHz

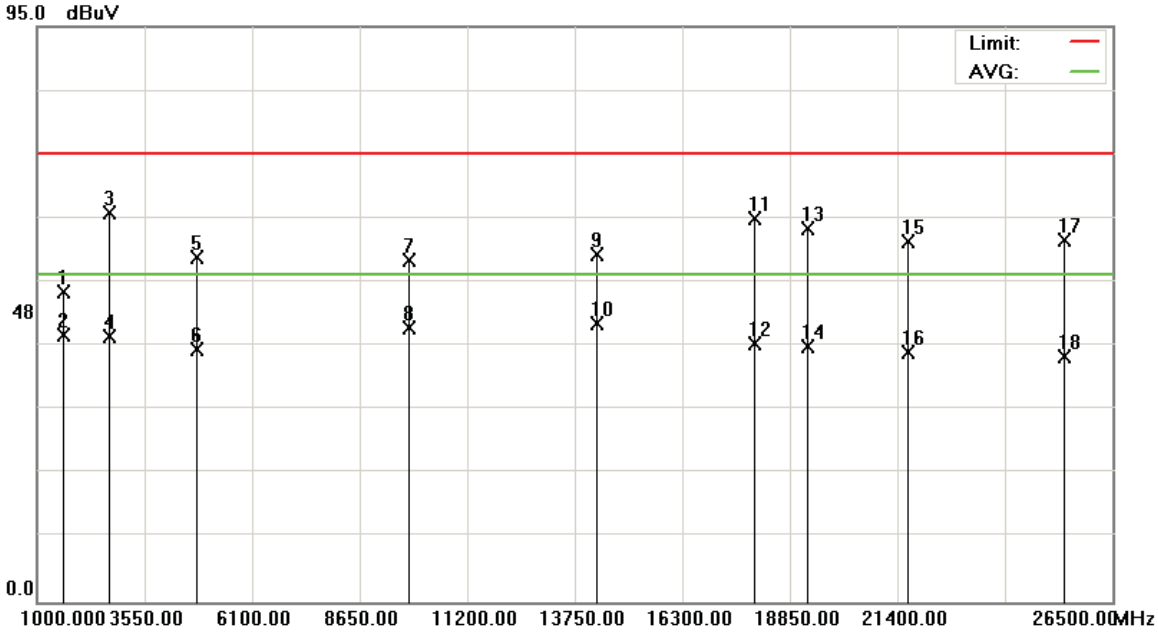
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		335.7000	40.34	-9.22	31.12	46.00	-14.88	peak			
2		499.5000	42.27	-7.17	35.10	46.00	-10.90	peak			
3		600.3000	32.16	-4.89	27.27	46.00	-18.73	peak			
4		696.9000	33.55	-3.85	29.70	46.00	-16.30	peak			
5	*	799.8000	38.65	-2.32	36.33	46.00	-9.67	peak			
6		900.6000	28.86	-0.36	28.50	46.00	-17.50	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(2402) Data :#17 Date: 2009/5/14 Time: 下午 07:55:34

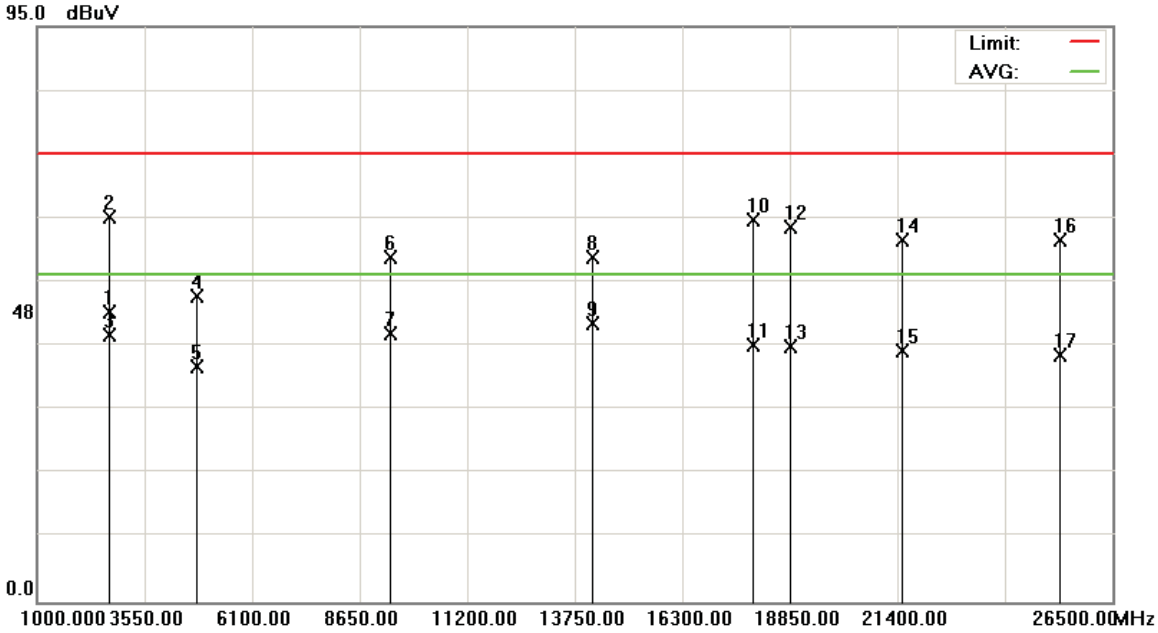


Site: site #1 Polarization: *Vertical* Temperature: 22 ℃
Limit: FCC part 15 (PK) Power: Humidity: 60 %
EUT: Distance: 3m
M/N: 09-0031-EO
Mode: BT+EDR(2.0)
Note: 2402MHz，Antenna100cm，NB01
10G - 18G AV PRE Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		1601.800	55.03	-3.73	51.30	74.00	-22.70	peak			
2		1601.800	47.79	-3.73	44.06	54.00	-9.94	AVG			
3		2700.000	41.73	22.58	64.31	74.00	-9.69	peak			
4		2700.000	21.18	22.58	43.76	54.00	-10.24	AVG			
5		4798.750	49.71	7.29	57.00	74.00	-17.00	peak			
6		4798.750	34.47	7.29	41.76	54.00	-12.24	AVG			
7		9817.500	38.61	17.75	56.36	74.00	-17.64	peak			
8		9817.500	27.49	17.75	45.24	54.00	-8.76	AVG			
9		14260.000	38.76	18.66	57.42	74.00	-16.58	peak			
10	*	14260.000	27.24	18.66	45.90	54.00	-8.10	AVG			
11		18000.000	37.82	25.57	63.39	74.00	-10.61	peak			
12		18000.000	17.10	25.57	42.67	54.00	-11.33	AVG			
13		19275.000	38.79	22.91	61.70	74.00	-12.30	peak			
14		19275.000	19.35	22.91	42.26	54.00	-11.74	AVG			
15		21655.000	38.21	21.27	59.48	74.00	-14.52	peak			
16		21655.000	19.87	21.27	41.14	54.00	-12.86	AVG			
17		25352.500	40.64	19.07	59.71	74.00	-14.29	peak			
18		25352.500	21.44	19.07	40.51	54.00	-13.49	AVG			

*:Maximum data x:Over limit !:over margin

File :H790(2402) Data :#18 Date: 2009/5/14 Time: 下午 07:59:32



Site: site #1 Polarization: *Horizontal* Temperature: 22 ℃

Limit: FCC part 15 (PK) Power: Humidity: 60 %

EUT: Distance: 3m

M/N: 09-0031-EO

Mode: BT+EDR(2.0)

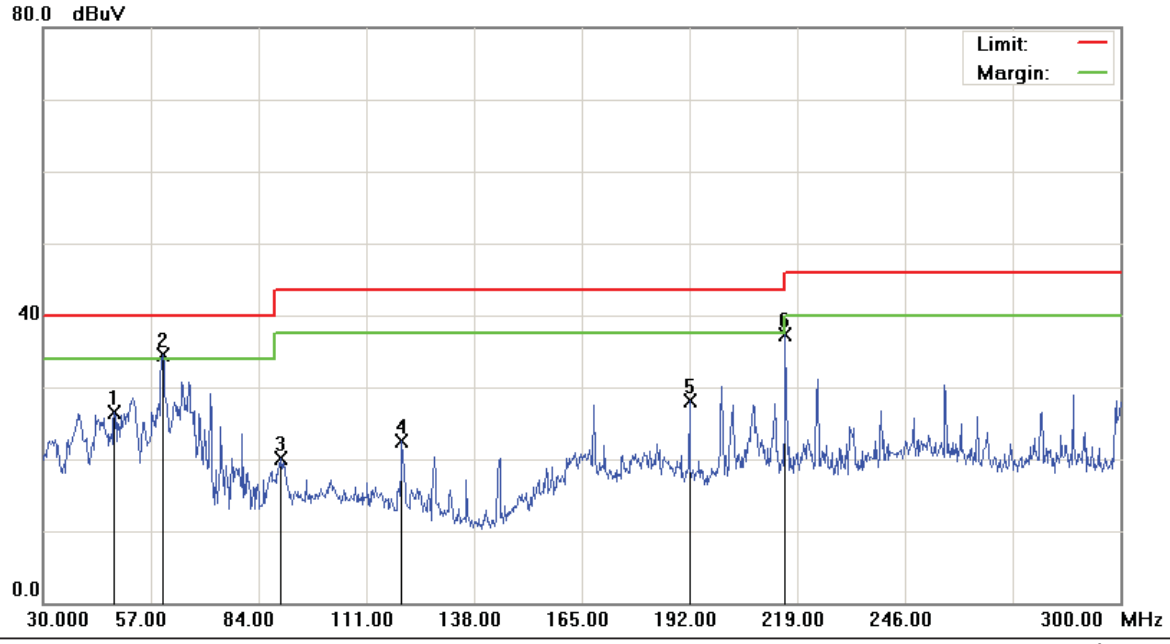
Note: 2402MHz，Antenna100cm，NB01

10G - 18G AV PRE Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		2696.600	46.90	0.90	47.80	74.00	-26.20	peak			
2		2700.000	40.95	22.58	63.53	74.00	-10.47	peak			
3		2700.000	21.52	22.58	44.10	54.00	-9.90	AVG			
4		4798.750	43.15	7.29	50.44	74.00	-23.56	peak			
5		4798.750	31.54	7.29	38.83	54.00	-15.17	AVG			
6		9343.000	39.86	16.93	56.79	74.00	-17.21	peak			
7		9343.000	27.48	16.93	44.41	54.00	-9.59	AVG			
8		14180.000	38.02	18.85	56.87	74.00	-17.13	peak			
9	*	14180.000	27.16	18.85	46.01	54.00	-7.99	AVG			
10		17980.000	37.77	25.21	62.98	74.00	-11.02	peak			
11		17980.000	17.27	25.21	42.48	54.00	-11.52	AVG			
12		18871.250	38.81	23.15	61.96	74.00	-12.04	peak			
13		18871.250	19.02	23.15	42.17	54.00	-11.83	AVG			
14		21506.250	38.33	21.35	59.68	74.00	-14.32	peak			
15		21506.250	20.15	21.35	41.50	54.00	-12.50	AVG			
16		25246.250	40.57	19.14	59.71	74.00	-14.29	peak			
17		25246.250	21.57	19.14	40.71	54.00	-13.29	AVG			

*:Maximum data x:Over limit !:over margin

File :H790(BT) Data :#5 Date: 2009/5/15 Time: 上午 10:26:17



Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT+EDR
Note: 2441MHz

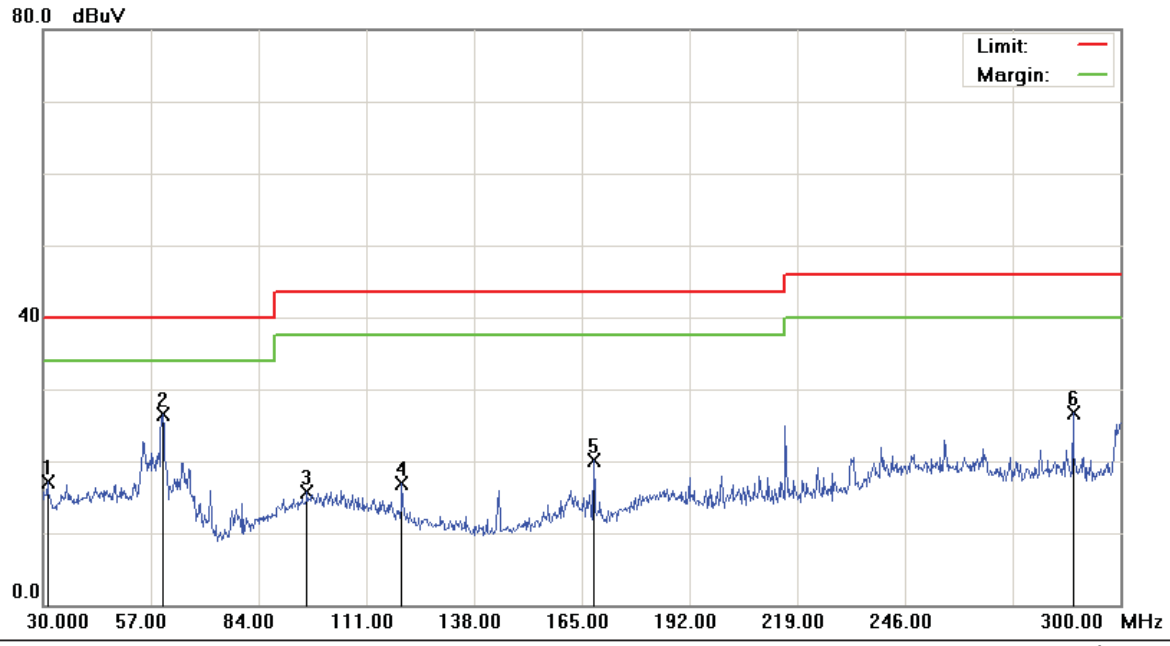
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		47.8200	38.51	-12.02	26.49	40.00	-13.51	peak			
2	*	59.9700	47.06	-12.54	34.52	40.00	-5.48	peak			
3		89.6700	33.41	-13.28	20.13	43.50	-23.37	peak			
4		119.9100	36.70	-14.18	22.52	43.50	-20.98	peak			
5		192.0000	41.31	-13.26	28.05	43.50	-15.45	peak			
6		216.0300	50.00	-12.64	37.36	46.00	-8.64	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(BT) Data :#7 Date: 2009/5/15 Time: 上午 10:34:43



Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT+EDR
Note: 2441MHz

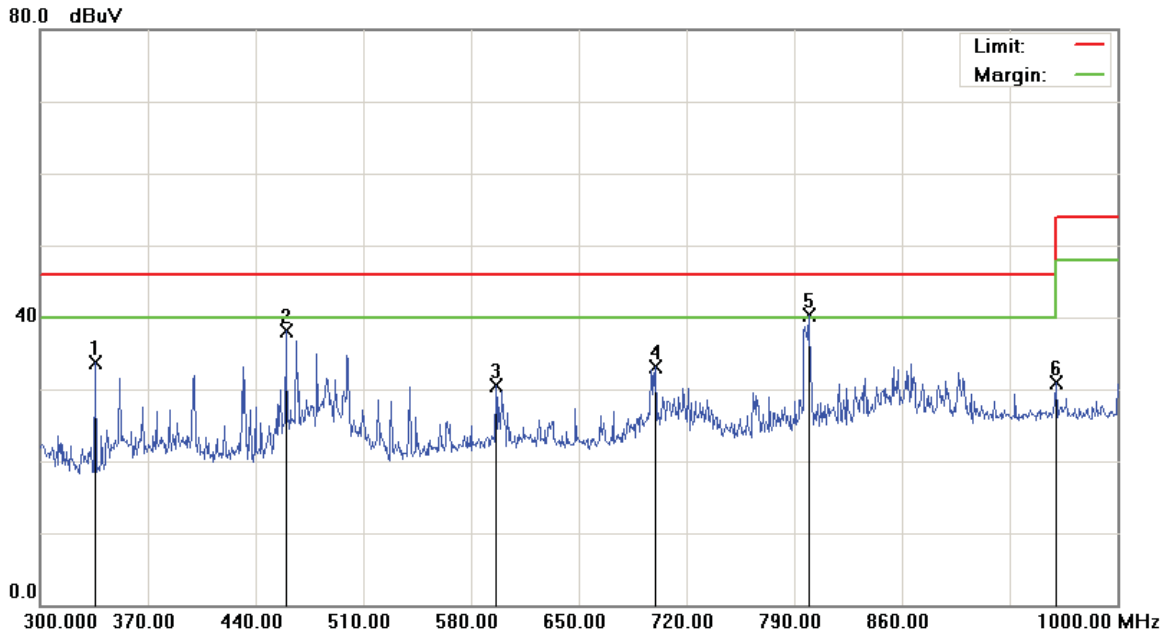
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		31.0800	30.48	-13.30	17.18	40.00	-22.82	peak			
2	*	59.9700	39.00	-12.54	26.46	40.00	-13.54	peak			
3		96.1500	27.59	-11.98	15.61	43.50	-27.89	peak			
4		119.9100	31.11	-14.18	16.93	43.50	-26.57	peak			
5		167.9700	35.40	-15.37	20.03	43.50	-23.47	peak			
6		288.1200	36.84	-10.12	26.72	46.00	-19.28	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(BT) Data :#6 Date: 2009/5/15 Time: 上午 10:30:30



Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT+EDR
Note: 2441MHz

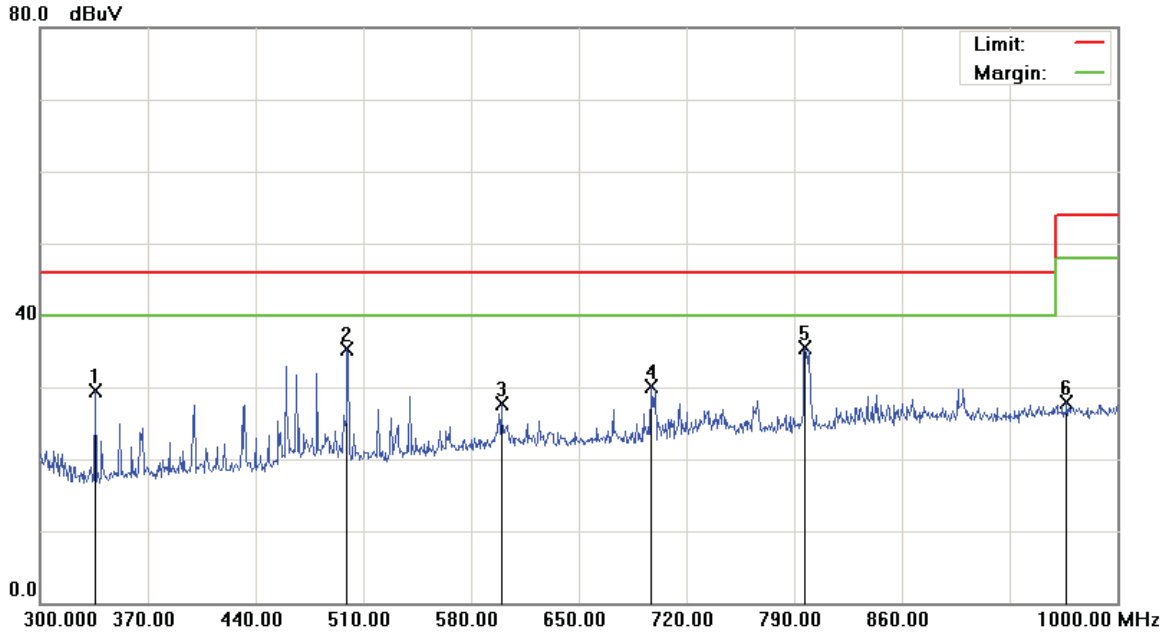
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		335.7000	42.84	-9.22	33.62	46.00	-12.38	peak			
2		459.6000	46.07	-7.87	38.20	46.00	-7.80	peak			
3		596.1000	35.33	-4.87	30.46	46.00	-15.54	peak			
4		699.7000	36.92	-3.86	33.06	46.00	-12.94	peak			
5	*	799.8000	42.64	-2.32	40.32	46.00	-5.68	peak			
6		960.1000	30.49	0.43	30.92	54.00	-23.08	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(BT) Data :#8 Date: 2009/5/15 Time: 上午 10:38:58



Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT+EDR
Note: 2441MHz

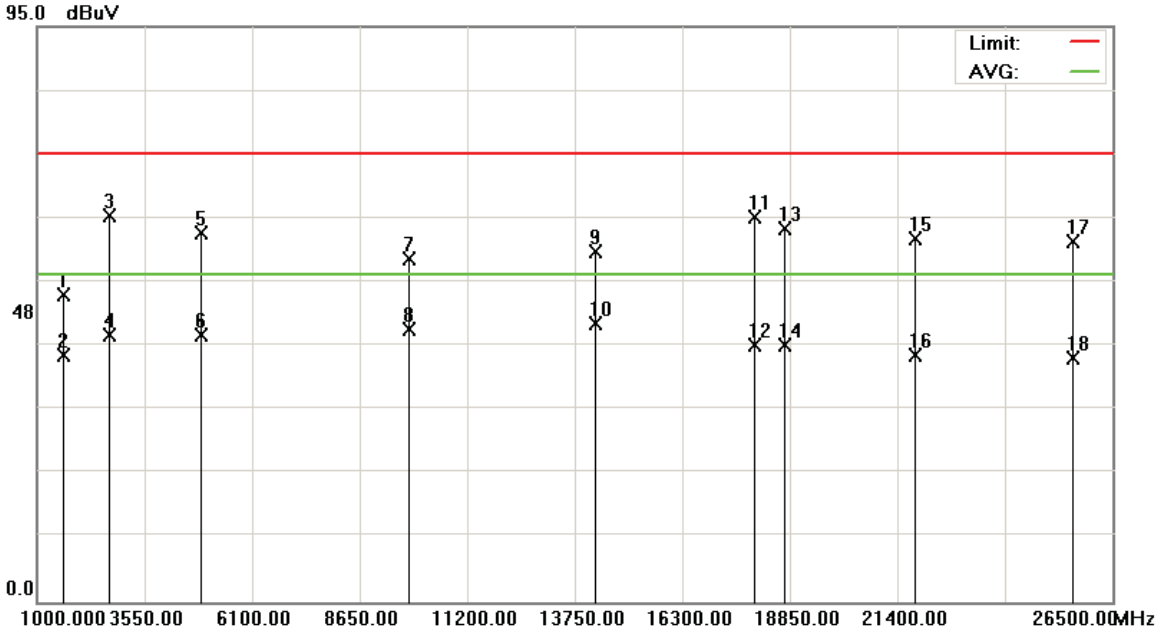
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		335.7000	38.63	-9.22	29.41	46.00	-16.59	peak			
2		499.5000	42.52	-7.17	35.35	46.00	-10.65	peak			
3		599.6000	32.60	-4.91	27.69	46.00	-18.31	peak			
4		696.9000	34.05	-3.85	30.20	46.00	-15.80	peak			
5	*	797.0000	37.92	-2.34	35.58	46.00	-10.42	peak			
6		967.1000	27.26	0.70	27.96	54.00	-26.04	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(2441) Data :#17 Date: 2009/5/14 Time: 下午 07:45:08

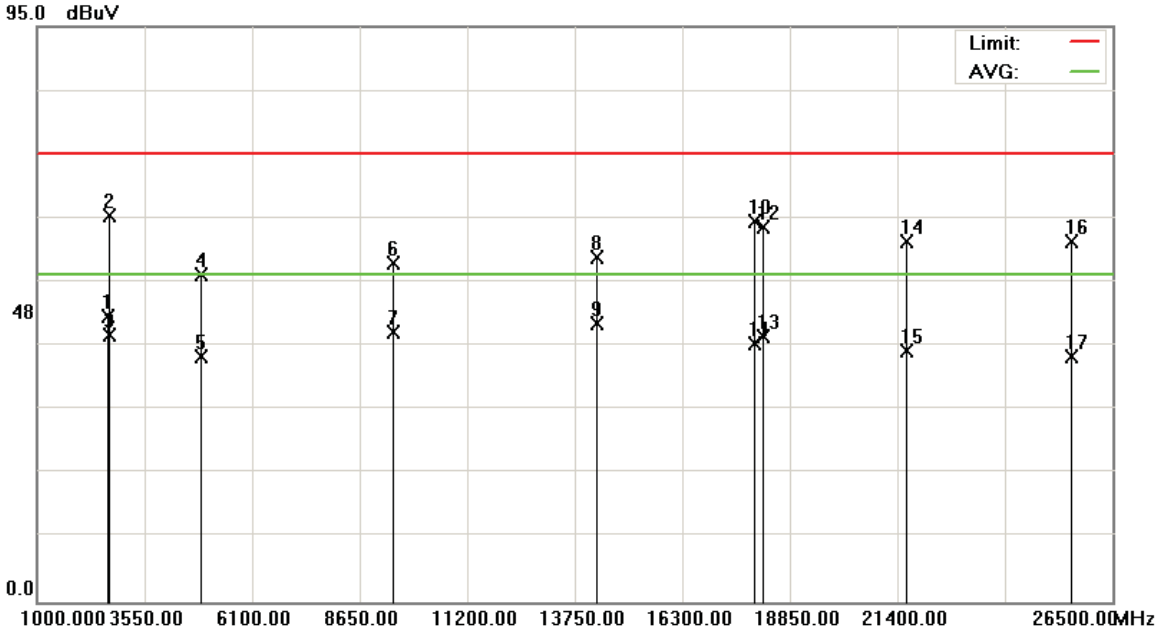


Site: site #1 Polarization: *Vertical* Temperature: 22 ℃
Limit: FCC part 15 (PK) Power: Humidity: 60 %
EUT: Distance: 3m
M/N: 09-0031-EO
Mode: BT+EDR(2.0)
Note: 2441MHz，Antenna 100cm，NB01
10G - 18G AV PRE Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		1627.300	54.68	-3.87	50.81	74.00	-23.19	peak			
2		1627.300	44.53	-3.87	40.66	54.00	-13.34	AVG			
3		2700.000	41.29	22.58	63.87	74.00	-10.13	peak			
4		2700.000	21.40	22.58	43.98	54.00	-10.02	AVG			
5		4890.000	53.28	7.73	61.01	74.00	-12.99	peak			
6		4890.000	36.22	7.73	43.95	54.00	-10.05	AVG			
7		9799.250	38.92	17.67	56.59	74.00	-17.41	peak			
8		9799.250	27.38	17.67	45.05	54.00	-8.95	AVG			
9		14220.000	38.97	18.78	57.75	74.00	-16.25	peak			
10	*	14220.000	27.21	18.78	45.99	54.00	-8.01	AVG			
11		18000.000	37.91	25.57	63.48	74.00	-10.52	peak			
12		18000.000	16.92	25.57	42.49	54.00	-11.51	AVG			
13		18701.250	38.41	23.11	61.52	74.00	-12.48	peak			
14		18701.250	19.38	23.11	42.49	54.00	-11.51	AVG			
15		21803.750	38.73	21.21	59.94	74.00	-14.06	peak			
16		21803.750	19.61	21.21	40.82	54.00	-13.18	AVG			
17		25543.750	40.53	18.95	59.48	74.00	-14.52	peak			
18		25543.750	21.23	18.95	40.18	54.00	-13.82	AVG			

*:Maximum data x:Over limit !:over margin

File :H790(2441) Data :#18 Date: 2009/5/14 Time: 下午 07:51:18



Site: site #1 Polarization: *Horizontal* Temperature: 22 ℃

Limit: FCC part 15 (PK) Power: Humidity: 60 %

EUT: Distance: 3m

M/N: 09-0031-EO

Mode: BT+EDR(2.0)

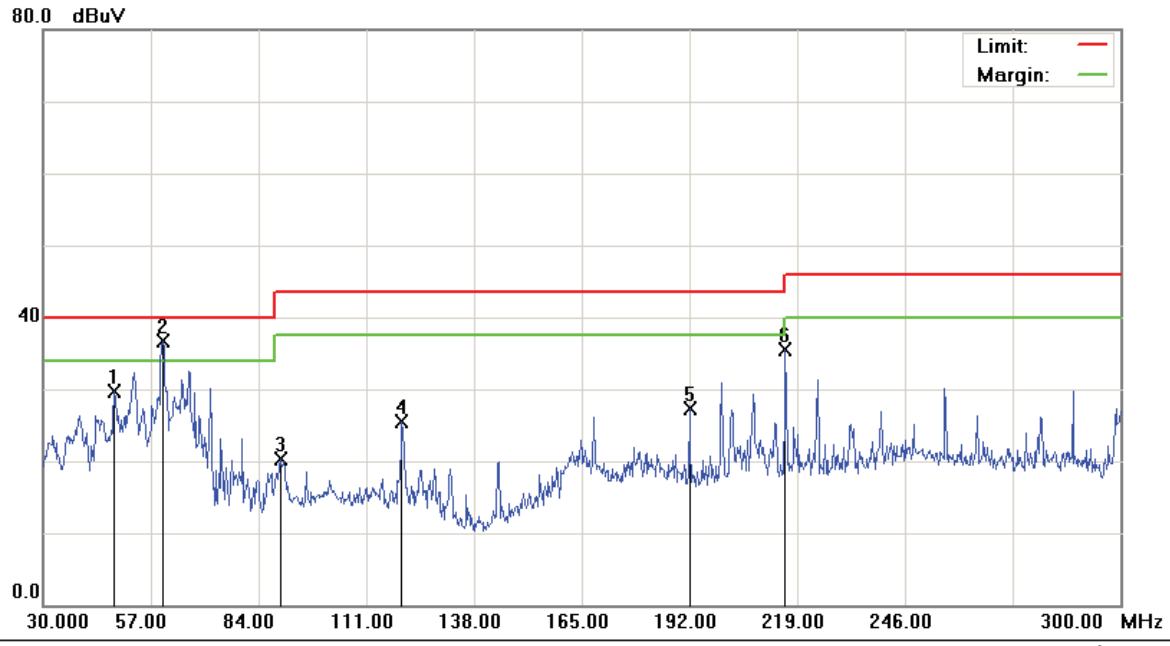
Note: 2441MHz，Antenna 100cm，NB01

10G - 18G AV PRE Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		2667.700	46.16	1.00	47.16	74.00	-26.84	peak			
2		2700.000	41.30	22.58	63.88	74.00	-10.12	peak			
3		2700.000	21.42	22.58	44.00	54.00	-10.00	AVG			
4		4890.000	46.32	7.73	54.05	74.00	-19.95	peak			
5		4890.000	32.70	7.73	40.43	54.00	-13.57	AVG			
6		9416.000	38.91	17.07	55.98	74.00	-18.02	peak			
7		9416.000	27.49	17.07	44.56	54.00	-9.44	AVG			
8		14280.000	38.27	18.63	56.90	74.00	-17.10	peak			
9	*	14280.000	27.32	18.63	45.95	54.00	-8.05	AVG			
10		18000.000	37.14	25.57	62.71	74.00	-11.29	peak			
11		18000.000	16.98	25.57	42.55	54.00	-11.45	AVG			
12		18212.500	38.65	23.22	61.87	74.00	-12.13	peak			
13		18212.500	20.55	23.22	43.77	54.00	-10.23	AVG			
14		21612.500	38.21	21.28	59.49	74.00	-14.51	peak			
15		21612.500	20.07	21.28	41.35	54.00	-12.65	AVG			
16		25522.500	40.54	18.97	59.51	74.00	-14.49	peak			
17		25522.500	21.55	18.97	40.52	54.00	-13.48	AVG			

*:Maximum data x:Over limit !:over margin

File :H790(BT) Data :#9 Date: 2009/5/15 Time: 上午 10:44:20



Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT+EDR
Note: 2480MHz

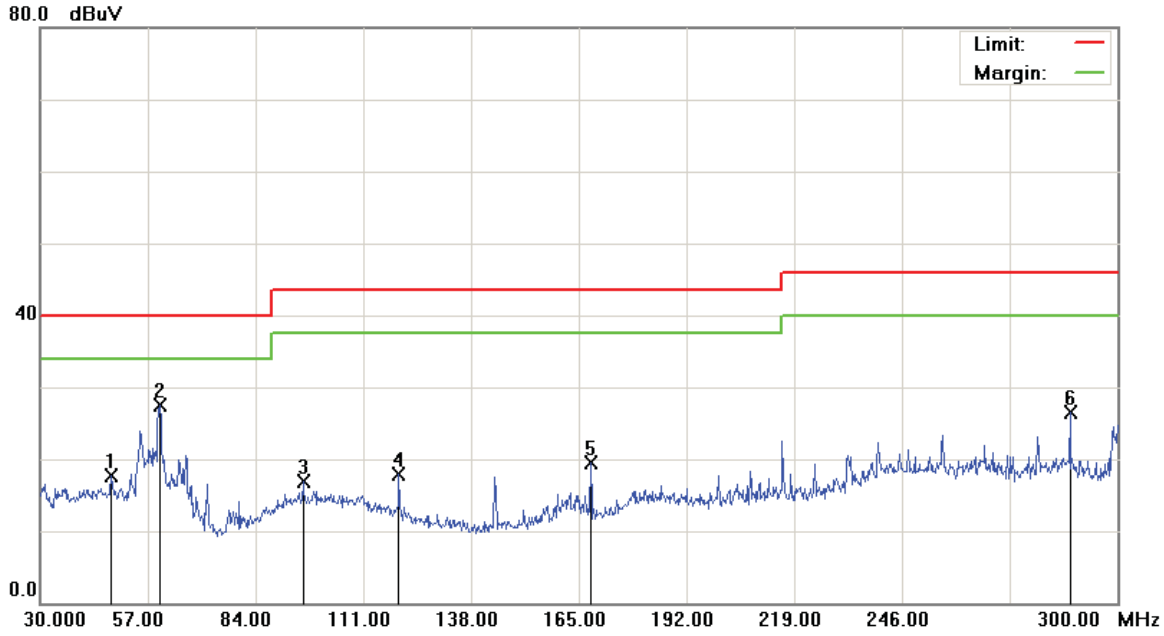
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		47.8200	41.74	-12.02	29.72	40.00	-10.28	peak			
2	*	59.9700	49.28	-12.54	36.74	40.00	-3.26	peak			
3		89.4000	33.74	-13.37	20.37	43.50	-23.13	peak			
4		119.9100	39.75	-14.18	25.57	43.50	-17.93	peak			
5		192.0000	40.53	-13.26	27.27	43.50	-16.23	peak			
6		216.0300	48.20	-12.64	35.56	46.00	-10.44	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(BT) Data :#11 Date: 2009/5/15 Time: 上午 10:52:48



Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT+EDR
Note: 2480MHz

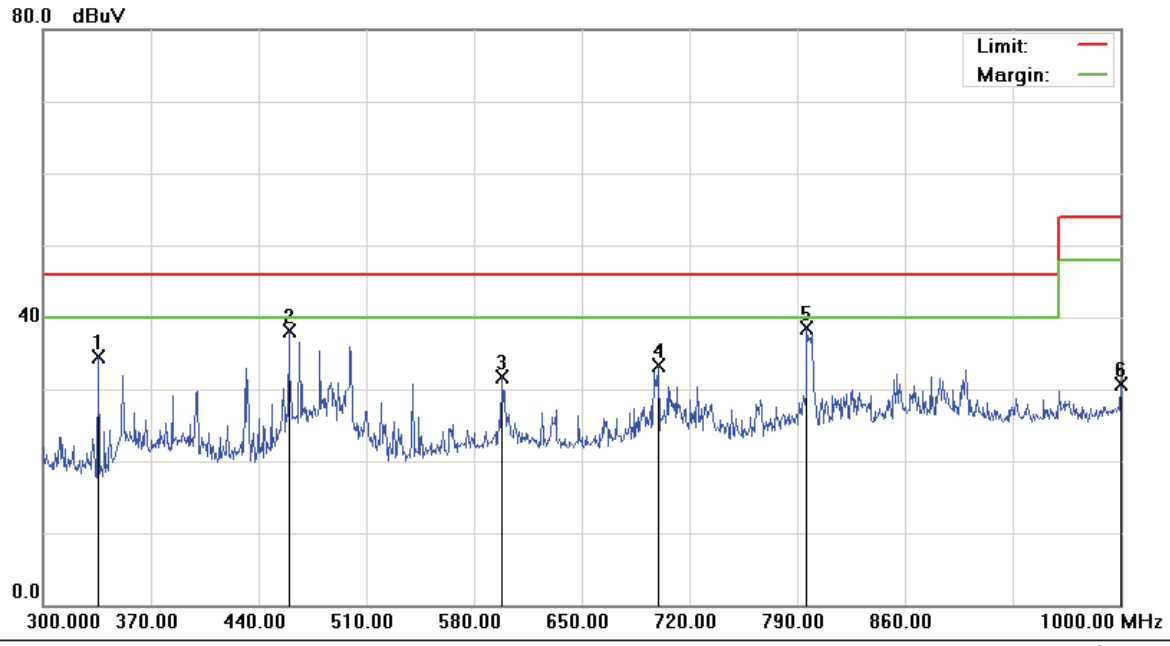
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		47.8200	29.73	-12.02	17.71	40.00	-22.29	peak			
2	*	59.9700	39.99	-12.54	27.45	40.00	-12.55	peak			
3		95.8800	28.88	-11.99	16.89	43.50	-26.61	peak			
4		119.9100	31.99	-14.18	17.81	43.50	-25.69	peak			
5		167.9700	34.88	-15.37	19.51	43.50	-23.99	peak			
6		288.1200	36.53	-10.12	26.41	46.00	-19.59	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(BT) Data :#10 Date: 2009/5/15 Time: 上午 10:48:34



Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT+EDR
Note: 2480MHz

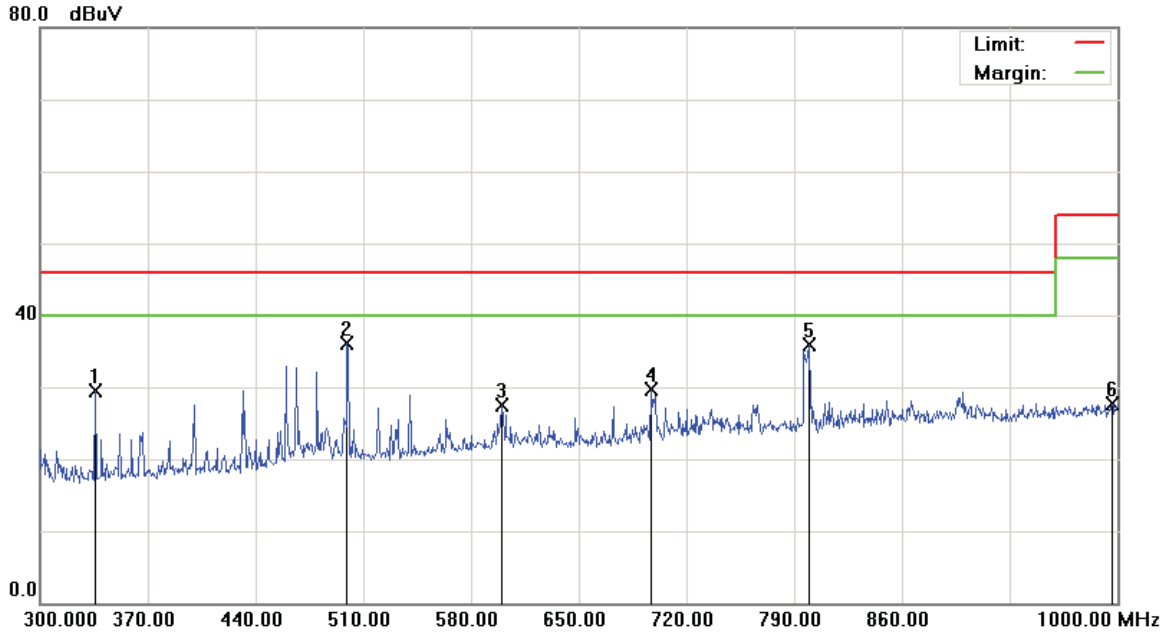
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		335.7000	43.71	-9.22	34.49	46.00	-11.51	peak			
2		459.6000	45.93	-7.87	38.06	46.00	-7.94	peak			
3		598.2000	36.54	-4.89	31.65	46.00	-14.35	peak			
4		699.7000	37.17	-3.86	33.31	46.00	-12.69	peak			
5	*	796.3000	40.81	-2.35	38.46	46.00	-7.54	peak			
6		1000.000	30.07	0.62	30.69	54.00	-23.31	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(BT) Data :#12 Date: 2009/5/15 Time: 上午 10:57:01



Site
Limit: FCC Class B 3M Radiation
EUT:
M/N: 09-0031-E
Mode: BT+EDR
Note: 2480MHz

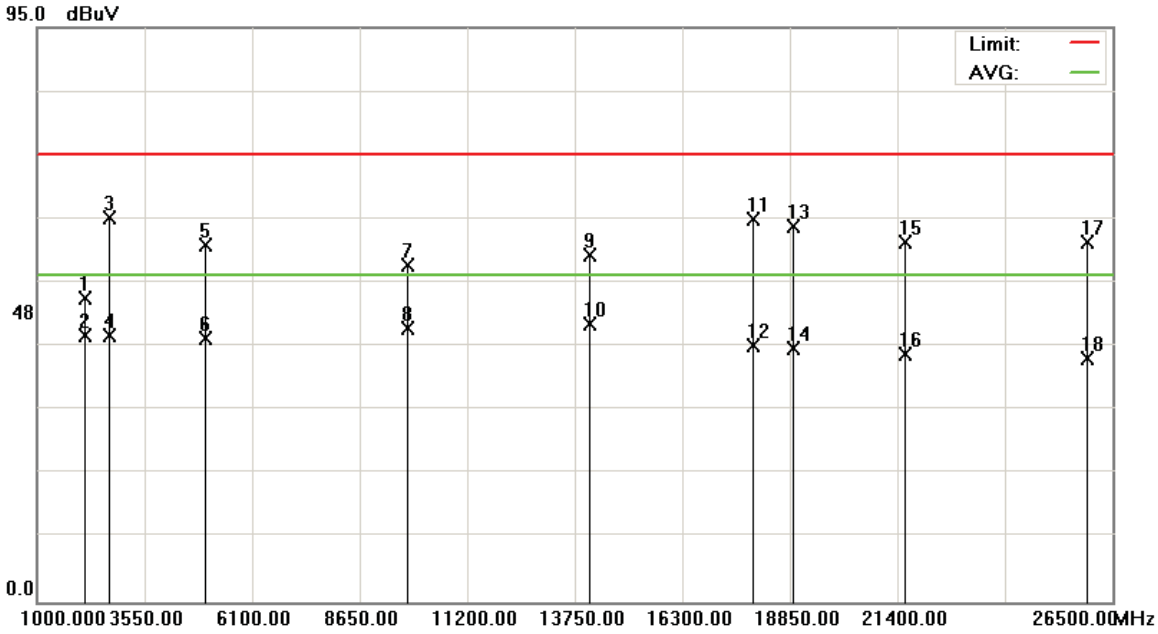
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		335.7000	38.72	-9.22	29.50	46.00	-16.50	peak			
2	*	499.5000	43.26	-7.17	36.09	46.00	-9.91	peak			
3		599.6000	32.34	-4.91	27.43	46.00	-18.57	peak			
4		696.9000	33.55	-3.85	29.70	46.00	-16.30	peak			
5		799.8000	38.27	-2.32	35.95	46.00	-10.05	peak			
6		996.5000	27.03	0.73	27.76	54.00	-26.24	peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :H790(2480) Data :#17 Date: 2009/5/14 Time: 下午 07:37:21



Site: site #1 Polarization: *Vertical* Temperature: 22 ℃

Limit: FCC part 15 (PK) Power: Humidity: 60 %

EUT: Distance: 3m

M/N: 09-0031-EO

Mode: BT+EDR(2.0)

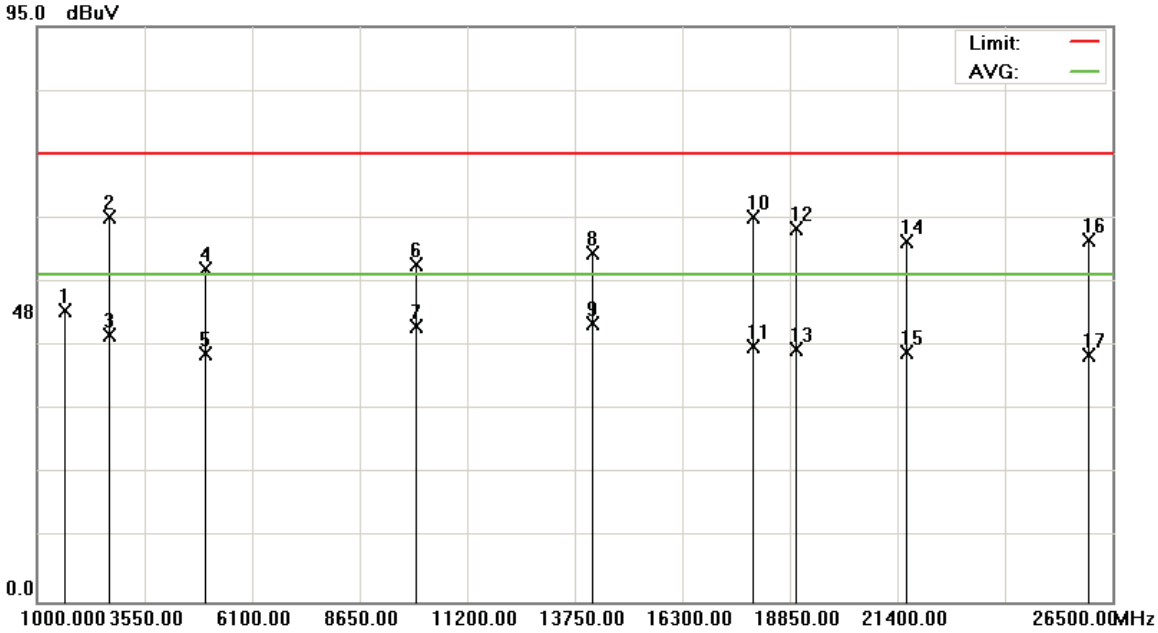
Note: 2480MHz，Antenna 100cm，NB01

10G - 18G AV PRE Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		2128.800	50.57	-0.24	50.33	74.00	-23.67	peak			
2		2128.800	44.20	-0.24	43.96	54.00	-10.04	AVG			
3		2700.000	40.95	22.58	63.53	74.00	-10.47	peak			
4		2700.000	21.52	22.58	44.10	54.00	-9.90	AVG			
5		4963.000	51.30	7.82	59.12	74.00	-14.88	peak			
6		4963.000	35.65	7.82	43.47	54.00	-10.53	AVG			
7		9781.000	38.06	17.69	55.75	74.00	-18.25	peak			
8		9781.000	27.67	17.69	45.36	54.00	-8.64	AVG			
9		14100.000	38.44	18.90	57.34	74.00	-16.66	peak			
10	*	14100.000	27.15	18.90	46.05	54.00	-7.95	AVG			
11		17980.000	38.07	25.21	63.28	74.00	-10.72	peak			
12		17980.000	17.16	25.21	42.37	54.00	-11.63	AVG			
13		18913.750	38.91	23.14	62.05	74.00	-11.95	peak			
14		18913.750	18.77	23.14	41.91	54.00	-12.09	AVG			
15		21570.000	38.20	21.31	59.51	74.00	-14.49	peak			
16		21570.000	19.68	21.31	40.99	54.00	-13.01	AVG			
17		25883.750	40.90	18.65	59.55	74.00	-14.45	peak			
18		25883.750	21.62	18.65	40.27	54.00	-13.73	AVG			

*:Maximum data x:Over limit !:over margin

File :H790(2480) Data :#18 Date: 2009/5/14 Time: 下午 07:41:09



Site: site #1 Polarization: *Horizontal* Temperature: 22 ℃

Limit: FCC part 15 (PK) Power: Humidity: 60 %

EUT: Distance: 3m

M/N: 09-0031-EO

Mode: BT+EDR(2.0)

Note: 2480MHz，Antenna 100cm，NB01

10G - 18G AV PRE Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		1652.800	51.83	-3.80	48.03	74.00	-25.97	peak			
2		2700.000	40.85	22.58	63.43	74.00	-10.57	peak			
3		2700.000	21.43	22.58	44.01	54.00	-9.99	AVG			
4		4963.000	47.13	7.82	54.95	74.00	-19.05	peak			
5		4963.000	33.20	7.82	41.02	54.00	-12.98	AVG			
6		10000.000	37.86	17.94	55.80	74.00	-18.20	peak			
7		10000.000	27.58	17.94	45.52	54.00	-8.48	AVG			
8		14160.000	38.72	18.83	57.55	74.00	-16.45	peak			
9	*	14160.000	27.19	18.83	46.02	54.00	-7.98	AVG			
10		17980.000	38.24	25.21	63.45	74.00	-10.55	peak			
11		17980.000	16.98	25.21	42.19	54.00	-11.81	AVG			
12		18998.750	38.64	23.09	61.73	74.00	-12.27	peak			
13		18998.750	18.51	23.09	41.60	54.00	-12.40	AVG			
14		21591.250	38.11	21.30	59.41	74.00	-14.59	peak			
15		21591.250	19.82	21.30	41.12	54.00	-12.88	AVG			
16		25926.250	41.10	18.62	59.72	74.00	-14.28	peak			
17		25926.250	22.18	18.62	40.80	54.00	-13.20	AVG			

*:Maximum data x:Over limit !:over margin

4. Maximum Conducted Output Power Requirements

4.1 Test Condition & Setup:

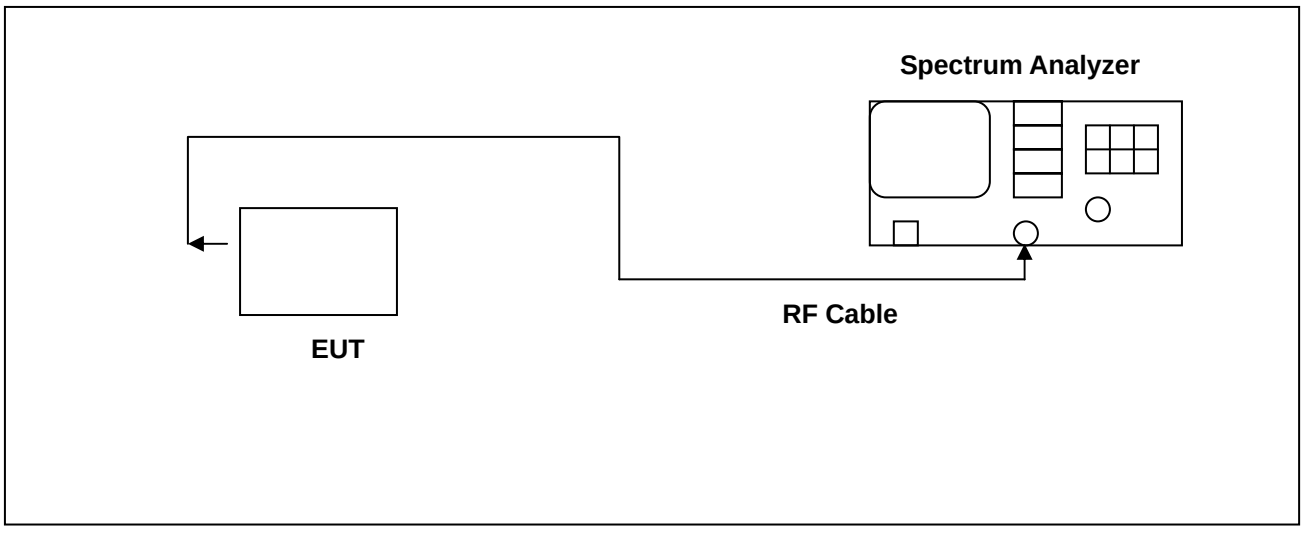
The tests below are run with the EUT's transmitter set at high power in TX mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to spectrum analyzer. The maximum peak output power shall not exceed 1 watt.

Use a direct connection between the antenna port of transmitter and the spectrum Analyzer, for prevent the spectrum analyzer input attenuation 40-50 dB. Set the RBW Bandwidth of the emission or use a channel power meter mode.

For antennas with gains of 6 dBi or less, maximum allowed transmitter output is 1 watt (+30 dBm). For antennas with gains greater than 6 dBi, transmitter output level must be decreased by an amount equal to (GAIN - 6)/3 dBm.

The antenna port of the EUT was connected to the input of a power meter. Power was read directly and cable loss correction was added to the reading to obtain power at the EUT antenna terminals.

4.2 Test Instruments Configuration:



4.3 Test Equipment List:

Describe	Manufacturer	Model	Serial Number	Calibration	
				Cal. Date	Due Date
Spectrum Analyzer	Agilent	E4445A	MY46181986	May. 07, 2008	May. 07, 2009

4.4 Test Result

Bluetooth 2.0

Frequency (MHz)	Output (dBm)	Required Limit
2402	3.910	<30dBm
2441	3.806	<30dBm
2480	3.673	<30dBm

Bluetooth EDR

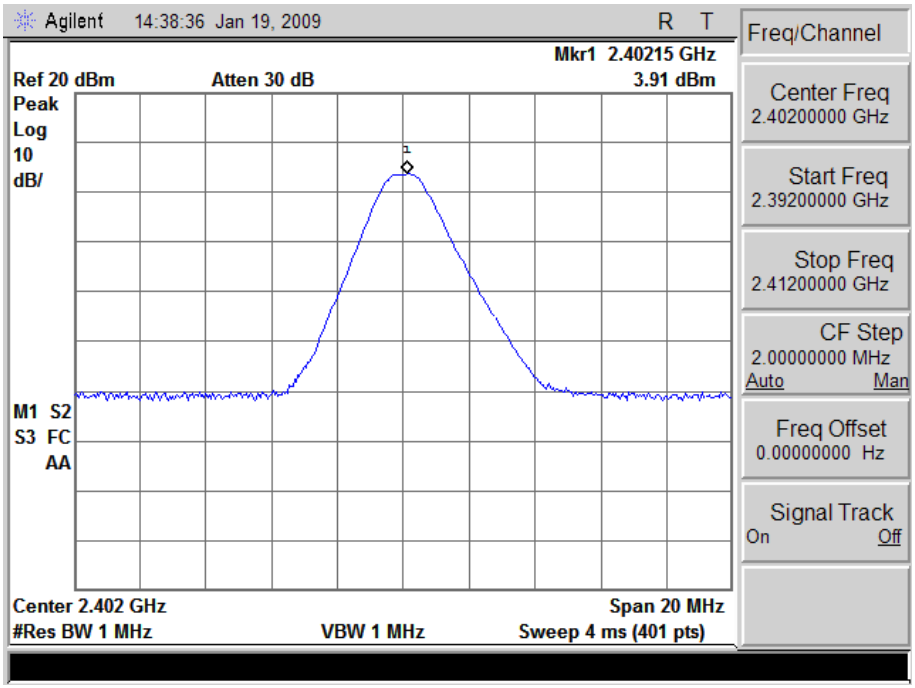
Frequency (MHz)	Output (dBm)	Required Limit
2402	3.829	<30dBm
2441	3.740	<30dBm
2480	3.504	<30dBm

Note: Test Graphs See next page.

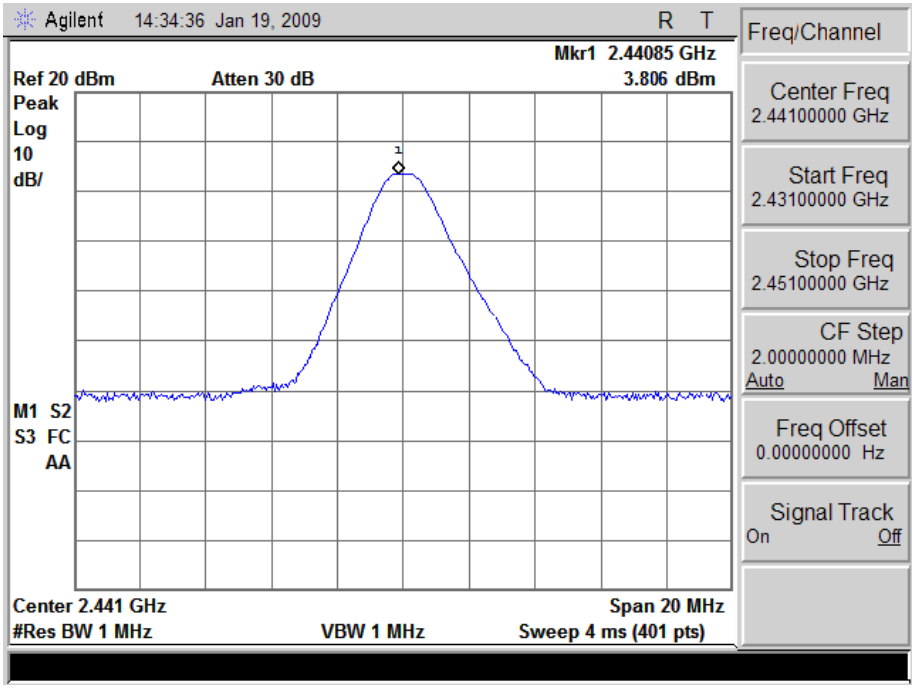
4.5 Test Graphs

4.5.1 Bluetooth 2.0 Mode:

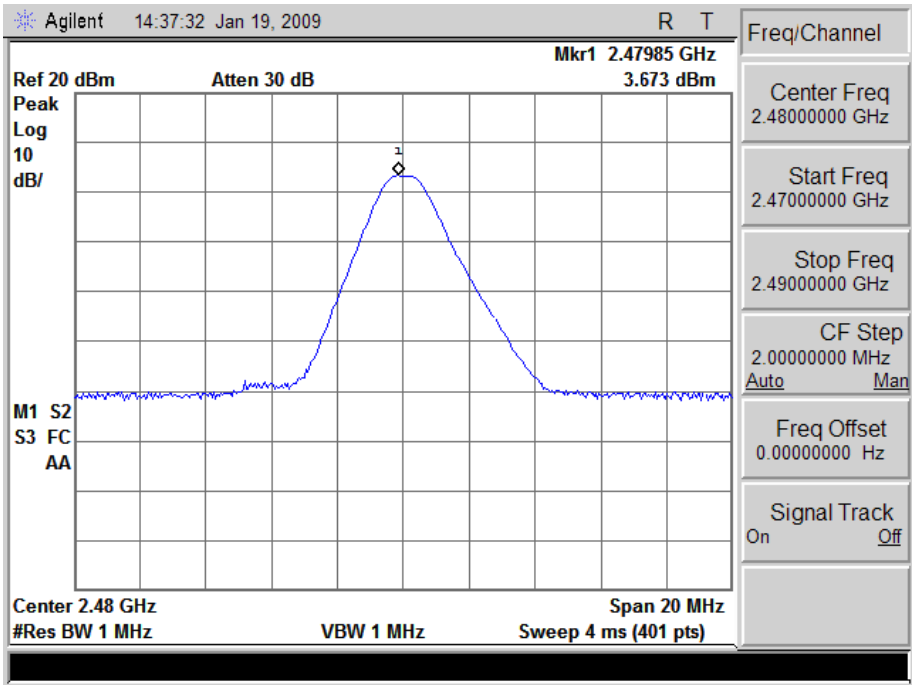
Bluetooth 2.0 CH00 (2402MHz)



Bluetooth 2.0 CH39 (2441MHz)

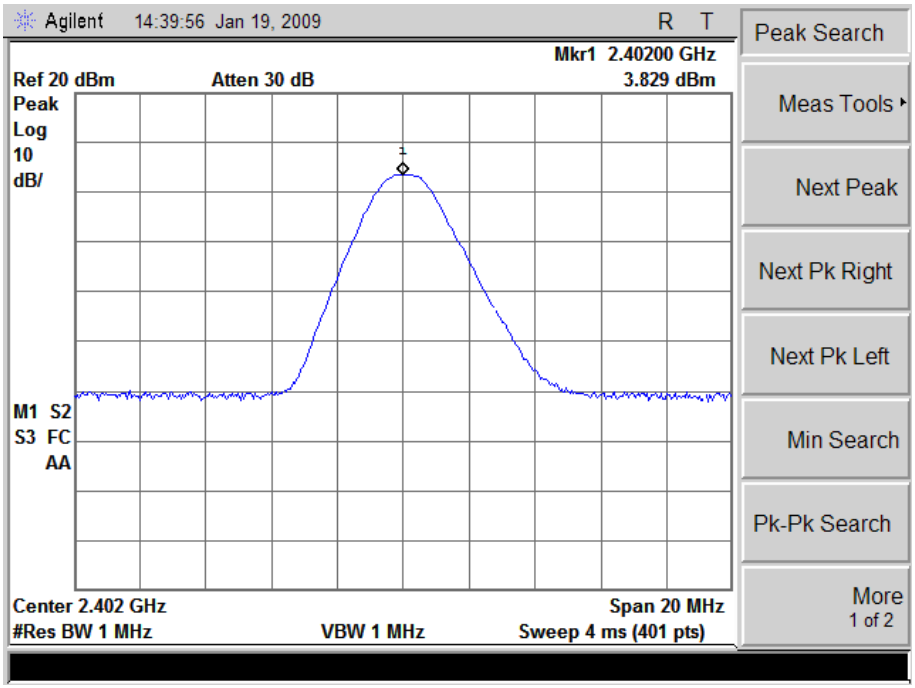


Bluetooth 2.0 CH78 (2480MHz)

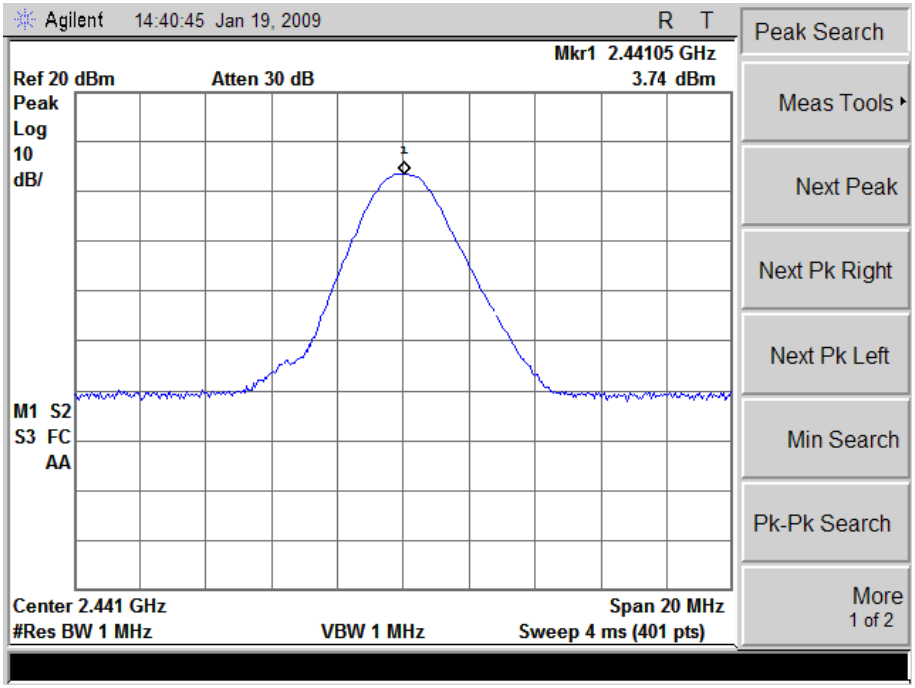


4.5.2 Test Graphs _ Bluetooth EDR Mode:

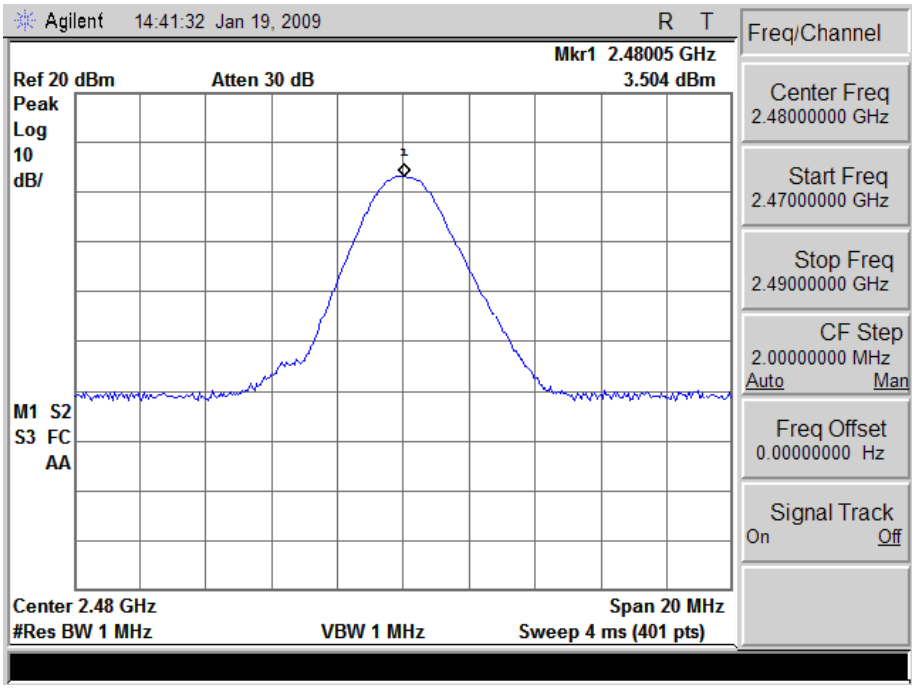
Bluetooth EDR CH00 (2402MHz)



Bluetooth EDR CH39 (2441MHz)



Bluetooth EDR CH78 (2480MHz)



5. Minimum 20dB RF Bandwidth Requirements

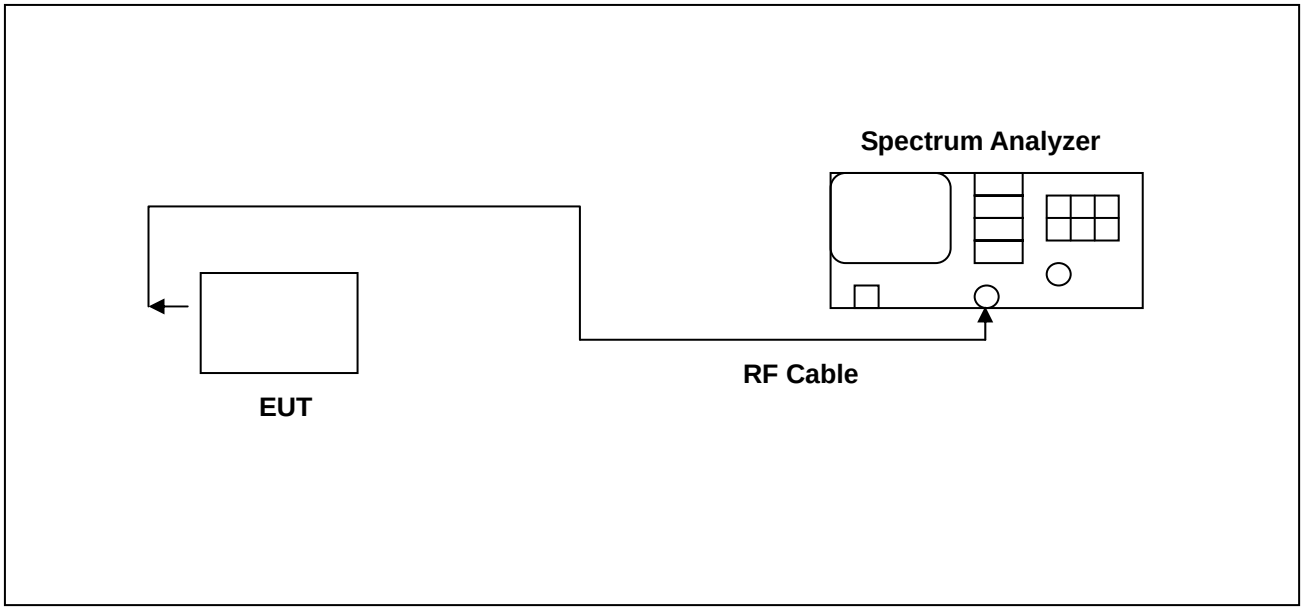
5.1 Test Condition & Setup:

The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage. The Bluetooth frequency hopping function of the EUT was enabled. The spectrum analyzer used the following settings:

1. Span = approx. 2 to 3 times the 20dB bandwidth, centered on a hopping frequency
2. RBW ≥ 1% of the 20dB span
3. VBW ≥ RBW
4. Sweep = auto
5. Detector function = peak
6. Trace = max hold

The trace was allowed to stabilize. The EUT was transmitting at its maximum data rate. The marker-to-peak function was used to set the marker to the peak of the emission. The marker-delta function was used to measure 20dB down one side of the emission. The marker-delta function and marker was moved to the other side of the emission until it was even with the reference marker. The marker-delta reading at this point was the 20dB bandwidth of the emission.

5.2 Test Instruments Configuration:



5.3 Test Equipment List:

Describe	Manufacturer	Model	Serial Number	Calibration	
				Cal. Date	Due Date
Spectrum Analyzer	Agilent	E4445A	MY46181986	May. 07, 2008	May. 07, 2009

5.4 Test Result

Bluetooth 2.0

Frequency (MHz)	Max 20dB Bandwidth (MHz)
2402	0.780
2441	0.810
2480	0.805

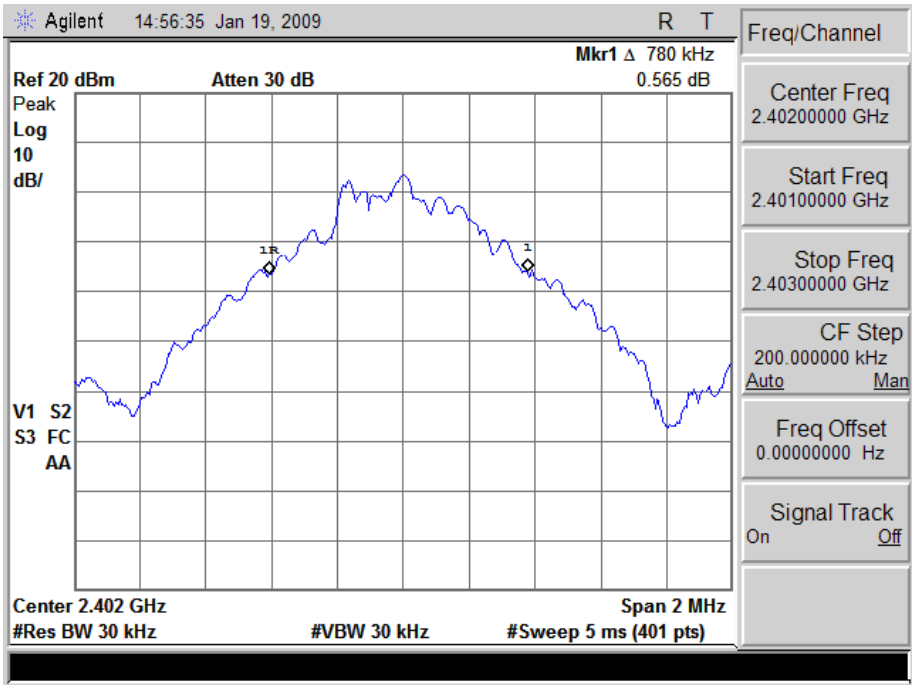
Bluetooth EDR

Frequency (MHz)	Max 20dB Bandwidth (MHz)	2/3 Max 20dB Bandwidth (MHz)
2402	1.215	0.810
2441	1.215	0.810
2480	1.215	0.810

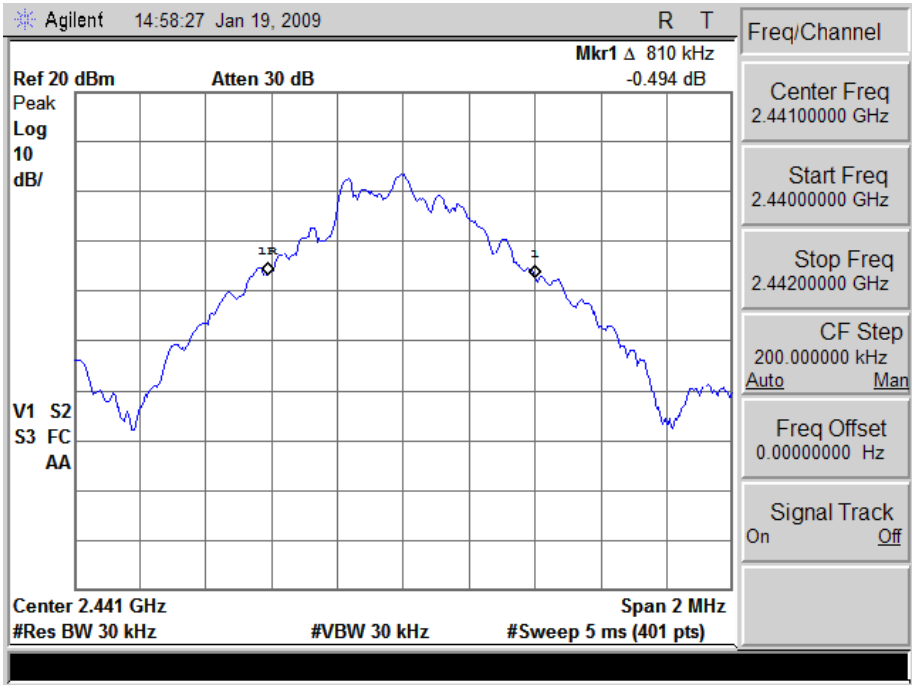
5.5 Test Graphs

5.5.1 Bluetooth 2.0 Mode:

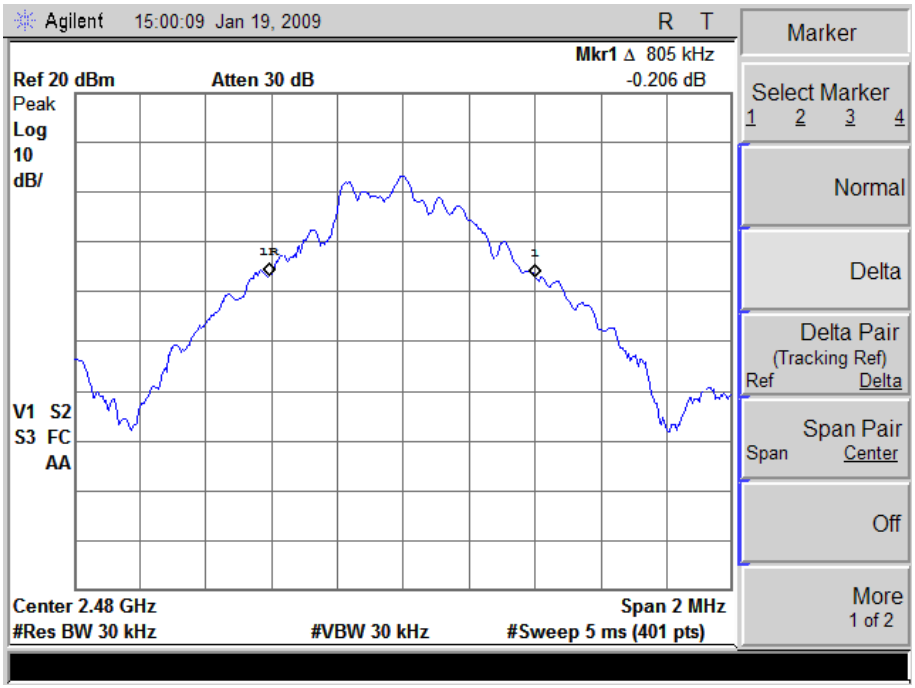
Bluetooth 2.0 CH00 (2412MHz)



Bluetooth 2.0 CH39 (2441MHz)

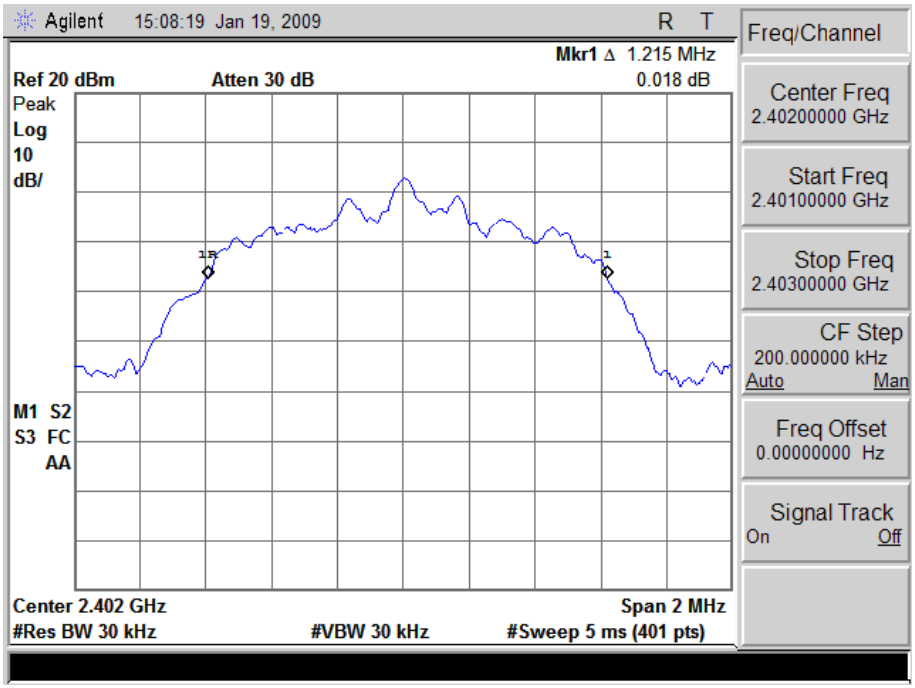


Bluetooth 2.0 CH78 (2480MHz)

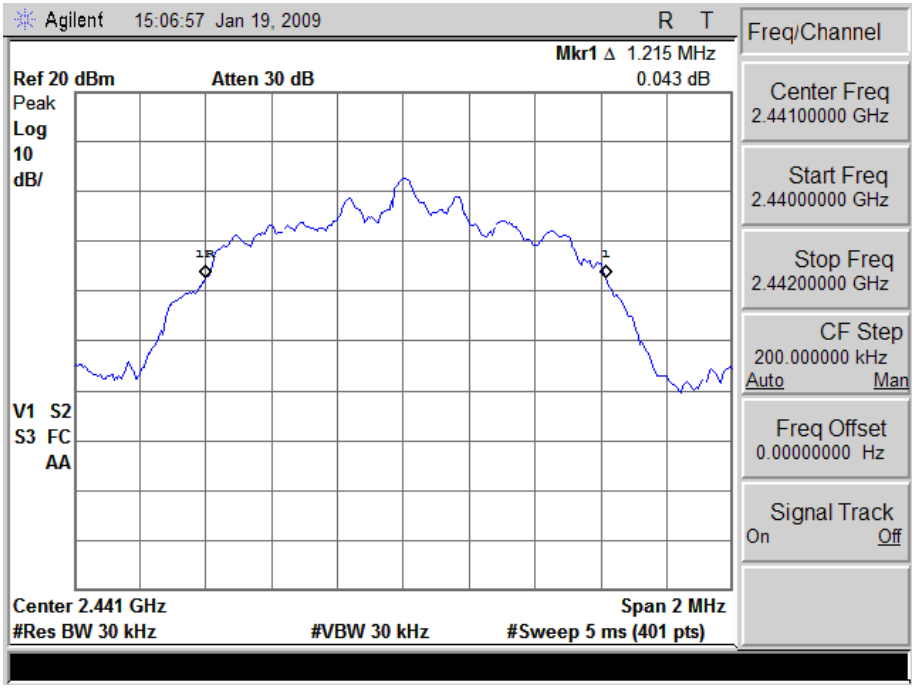


5.5.2 Bluetooth EDR Mode:

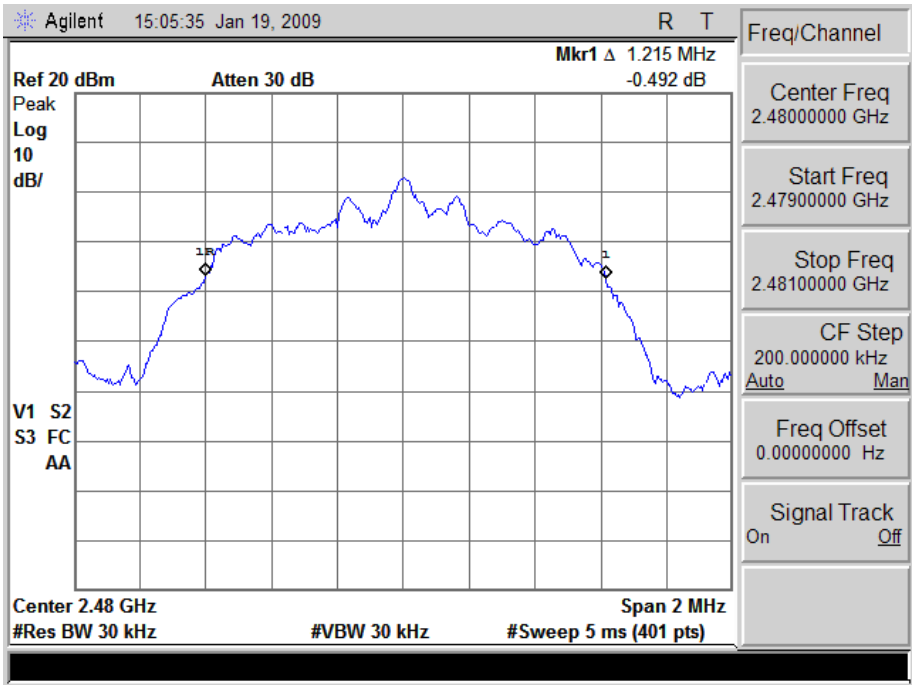
Bluetooth EDR CH00 (2412MHz)



Bluetooth EDR CH39 (2441MHz)



Bluetooth EDR CH78 (2480MHz)



6. Carrier Frequency Separation Requirements

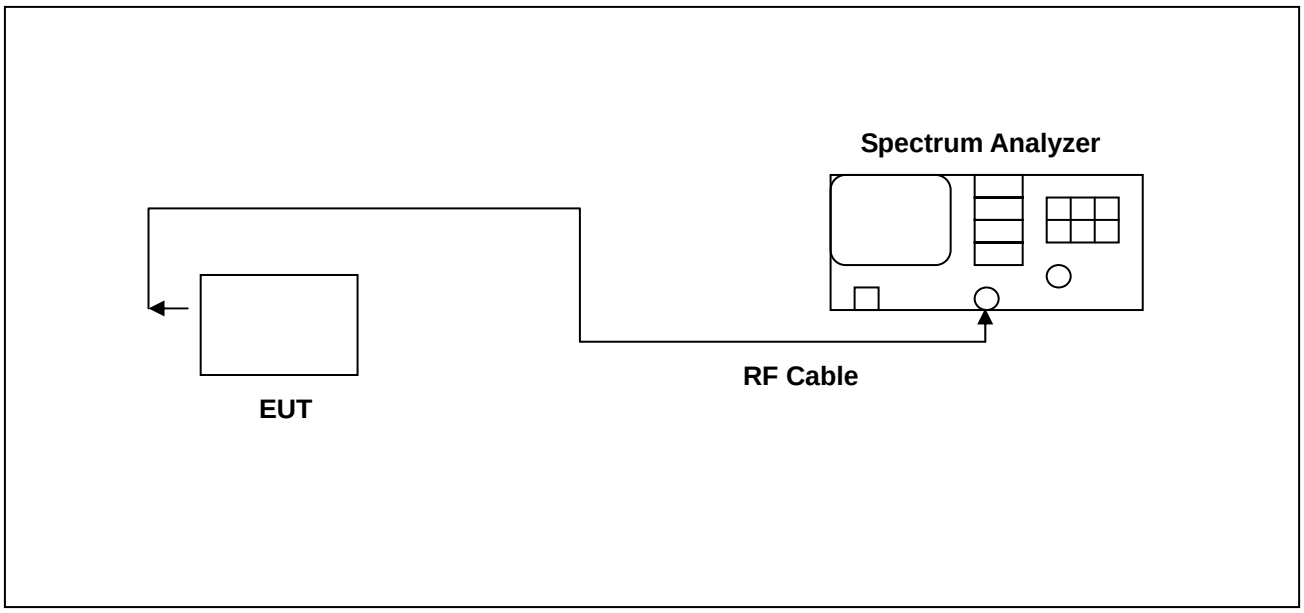
6.1 Test Condition & Setup:

The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage. The Bluetooth transmitter of the V6 had its hopping function enabled. The following spectrum analyzer settings were used:

1. Span = wide enough to capture the peaks of two adjacent channels
2. Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span
3. Video (or Average) Bandwidth (VBW) ≥ RBW
4. Sweep = auto
5. Detector function = peak
6. Trace = max hold

The trace was allowed to stabilize. The marker-delta function was used to determine the separation between the peaks of the adjacent channels.

6.2 Test Instruments Configuration:



6.3 Test Equipment List:

Describe	Manufacturer	Model	Serial Number	Calibration	
				Cal. Date	Due Date
Spectrum Analyzer	Agilent	E4445A	MY46181986	May. 07, 2008	May. 07, 2009
Attenuator	RADIALL	R41572000	0603033073	NA	NA

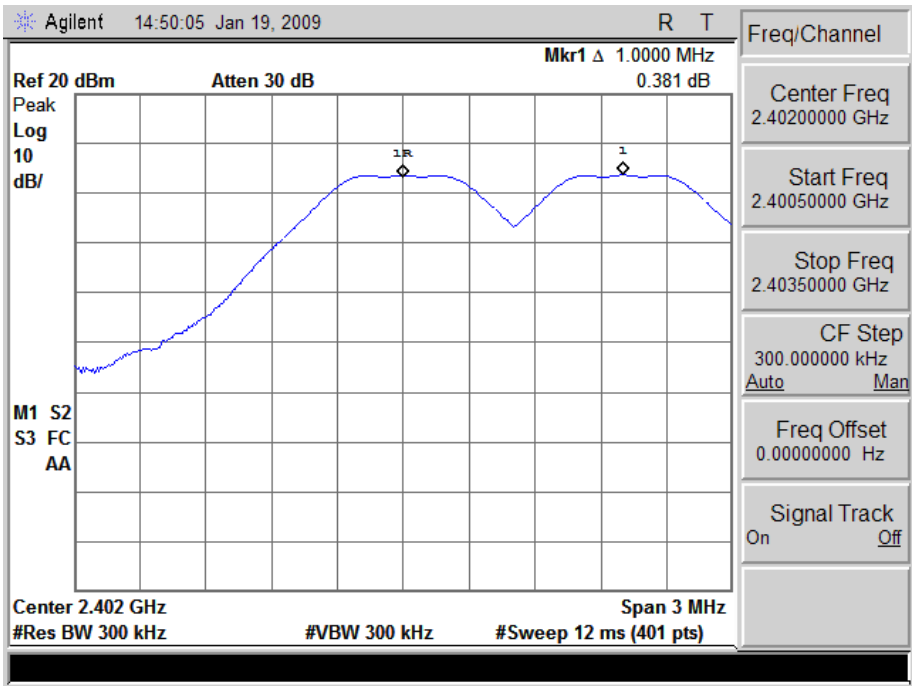
6.4 Test Result:

Carrier Frequency Separation Measure:	1 MHz

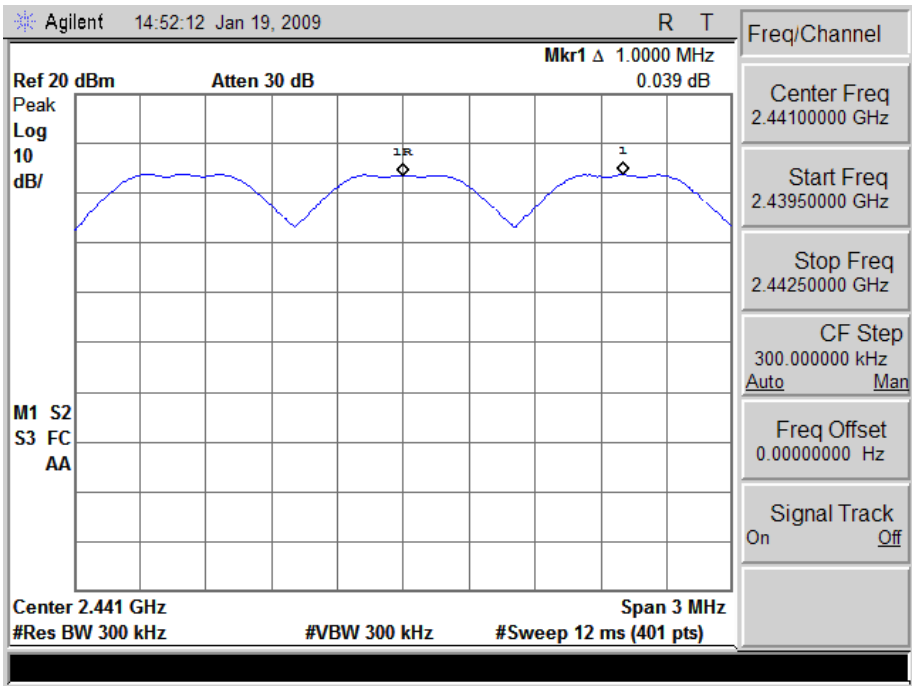
6.5 Test Graphs

6.5.1 Bluetooth 2.0 Mode:

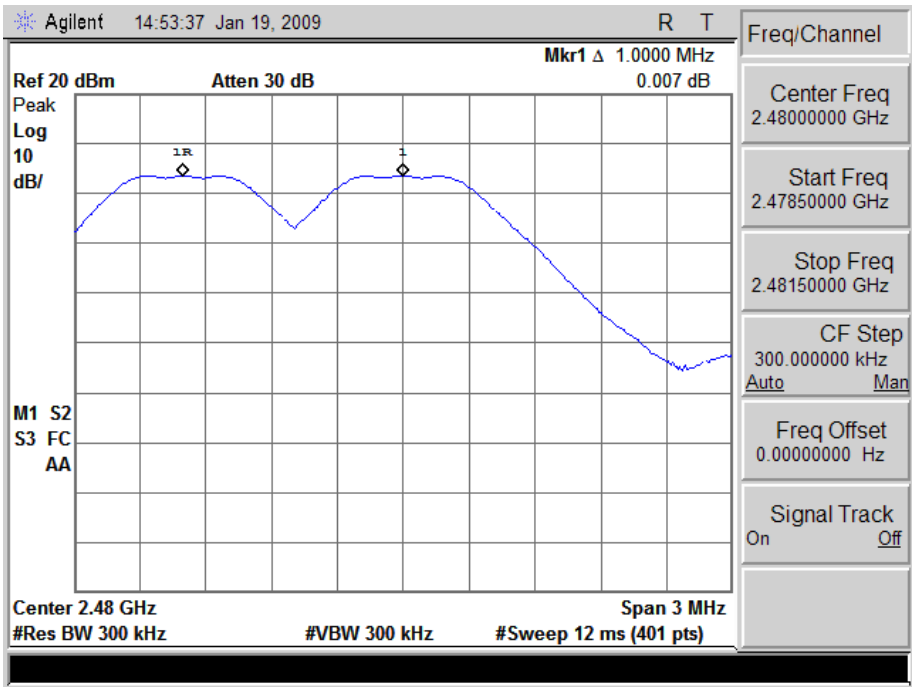
Bluetooth 2.0 CH00 (2412MHz)



Bluetooth 2.0 CH39 (2441MHz)

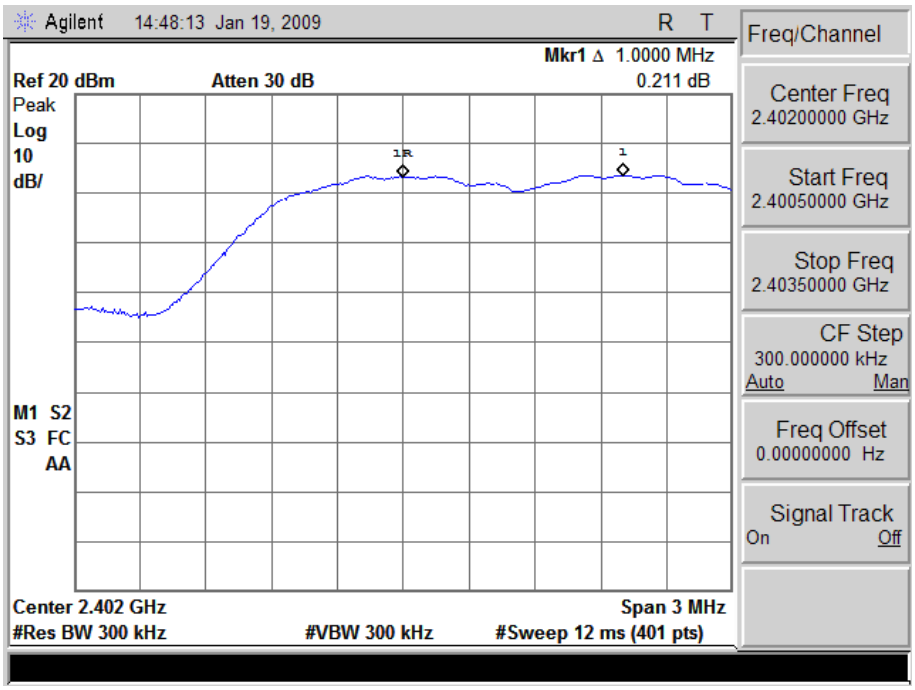


Bluetooth 2.0 CH78 (2480MHz)

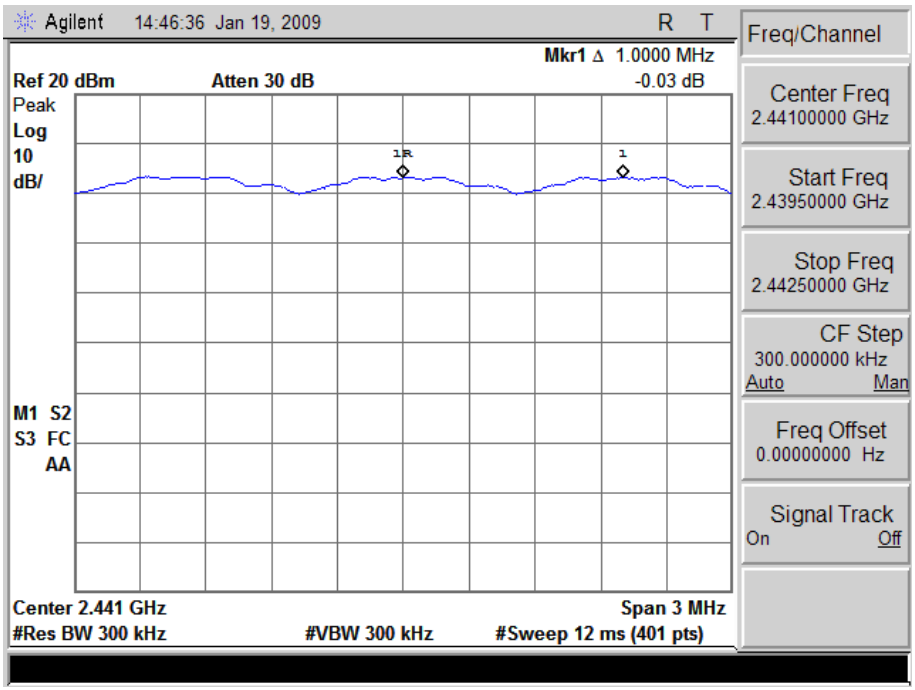


6.5.2 Bluetooth EDR Mode:

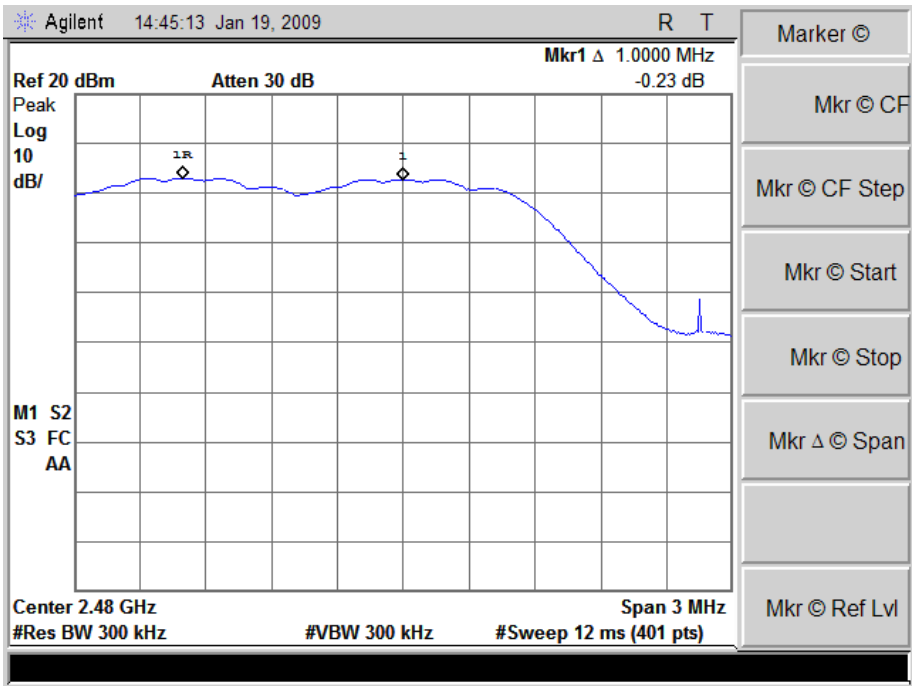
Bluetooth EDR CH00 (2412MHz)



Bluetooth EDR CH39 (2441MHz)



Bluetooth EDR CH78 (2480MHz)



7. Number of Hopping Requirements

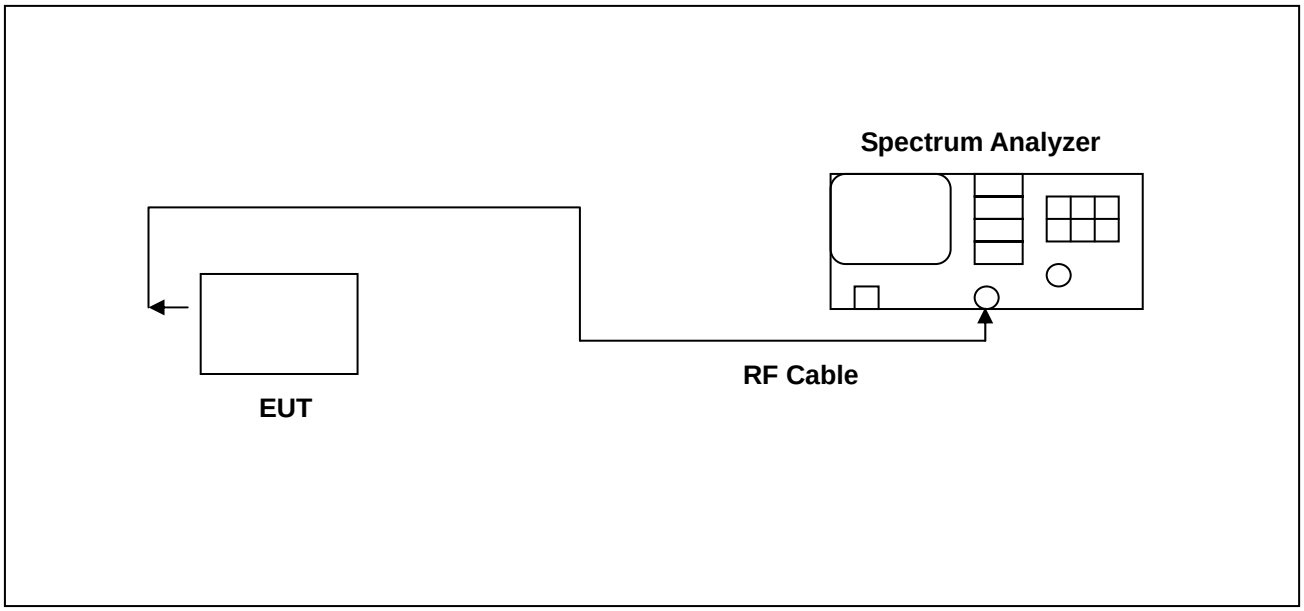
7.1 Test Condition & Setup:

The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage. The Bluetooth frequency hopping function of the EUT was enabled. The spectrum analyzer used the following settings:

1. Span = the frequency band of operation
2. RBW ≥ 1% of the span
3. VBW ≥ RBW
4. Sweep = auto
5. Detector function = peak
6. Trace = max hold

The trace was allowed to stabilize.

7.2 Test Instruments Configuration:



7.3 Test Equipment List:

Describe	Manufacturer	Model	Serial Number	Calibration	
				Cal. Date	Due Date
Spectrum Analyzer	Agilent	E4445A	MY46181986	May. 07, 2008	May. 07, 2009
Attenuator	RADIALL	R41572000	0603033073	NA	NA

7.4 Test Result:

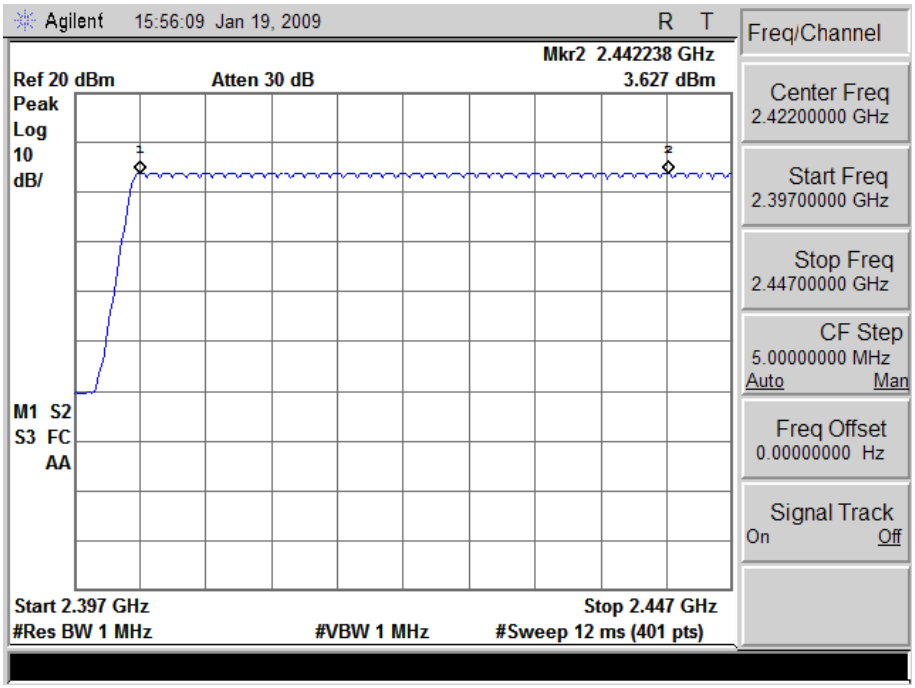
Number of Hopping Measure:	79 CH

Note: Test Graphs See next page.

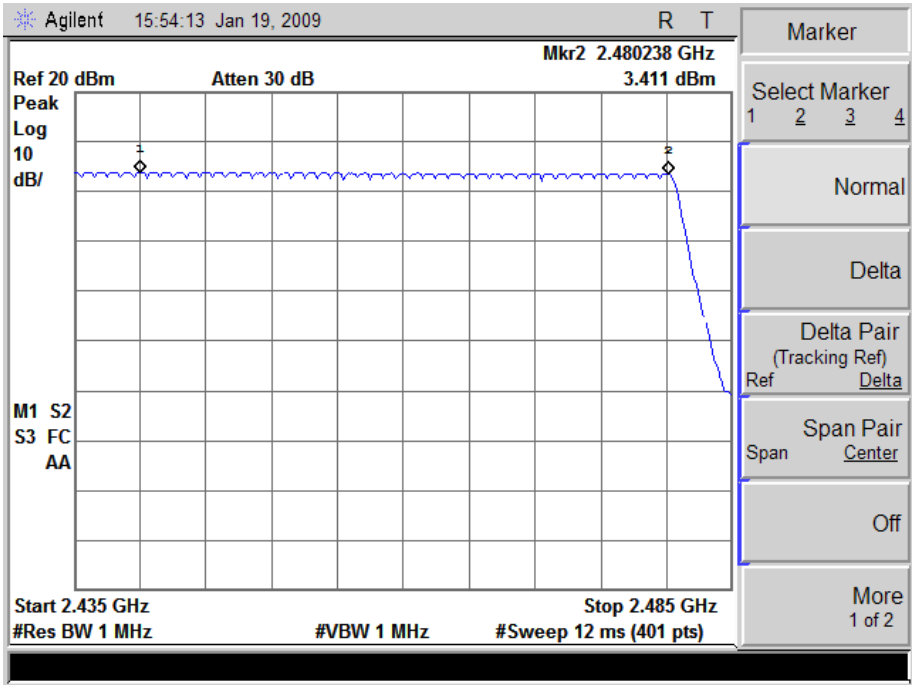
7.5 Test Graphs

7.5.1 Bluetooth 2.0 Mode:

Bluetooth 2.0 Mode CH0~CH39

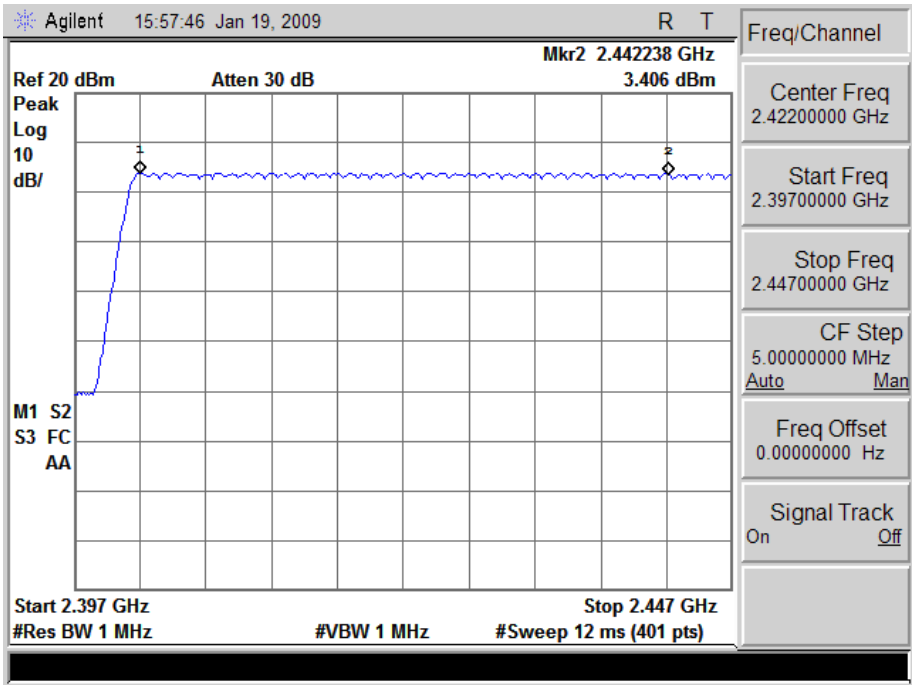


Bluetooth 2.0 Mode CH40~CH78

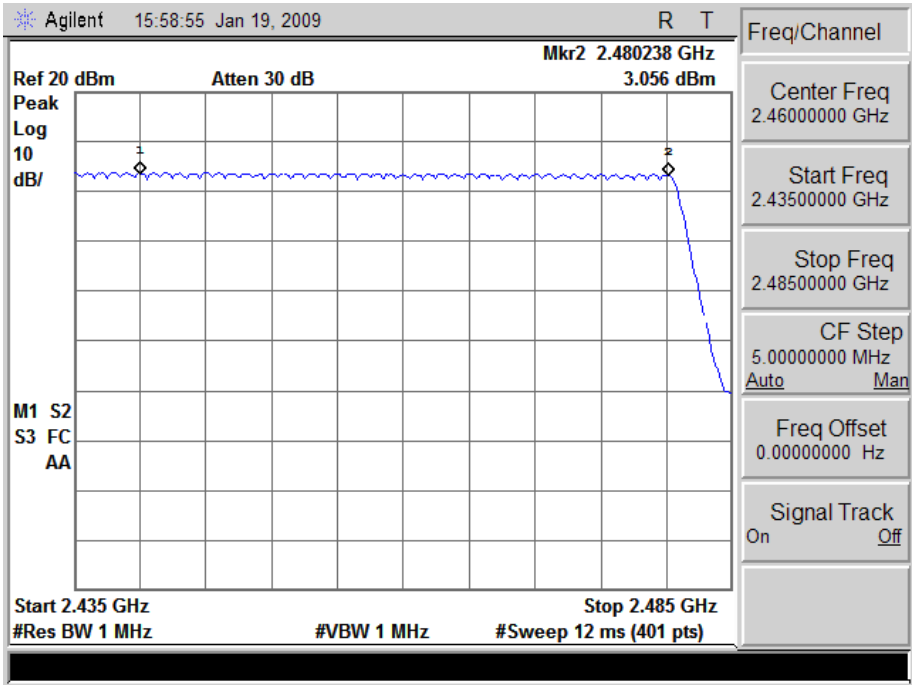


7.5.2 Bluetooth EDR Mode:

Bluetooth EDR Mode CH0~CH39



Bluetooth EDR Mode CH40~CH78



8. Time of Occupancy (Dwell Time) Requirements

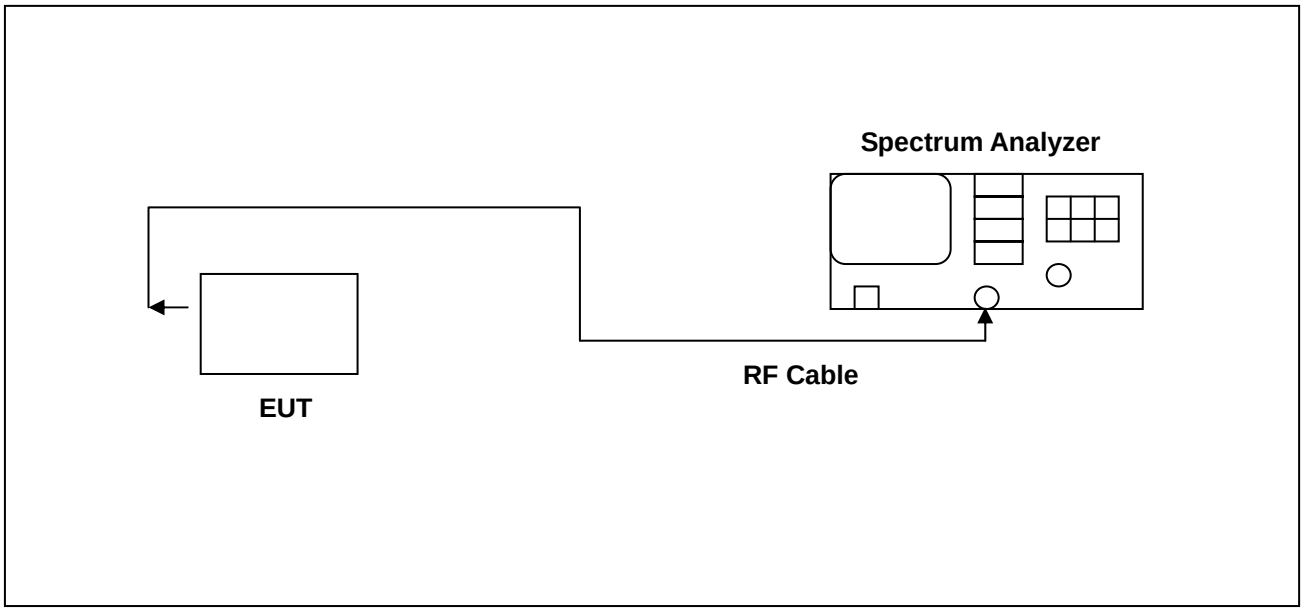
8.1 Test Condition & Setup:

The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage. The Bluetooth hopping function of the EUT was enabled. The following spectrum analyzer settings were used:

1. Span = zero span, centered on a hopping channel
2. RBW = 1 MHz
3. VBW ≥ RBW
4. Sweep = as necessary to capture the entire dwell time per hopping channel
5. Detector function = peak
6. Trace = max hold

The marker-delta function was used to determine the dwell time.

8.2 Test Instruments Configuration:



8.3 Test Equipment List:

Describe	Manufacturer	Model	Serial Number	Calibration	
				Cal. Date	Due Date
Spectrum Analyzer	Agilent	E4445A	MY46181986	May. 07, 2008	May. 07, 2009
Attenuator	RADIALL	R41572000	0603033073	NA	NA

8.4 Test Result

8.4.1 Bluetooth 2.0 Mode:

Bluetooth 2.0 DH1 Mode

Cycle Calculate	79CH * 0.4 = 31.6 (sec)
The EUT Hopping Number per Sec	1600 times/sec
Each Channel Dwell Times per Sec	800/79CH = 10.13(times/sec)
Each Channel Dwell Times (1)	**0.400** ms (sec)
Each Channel Dwell Times on Cycle(2)	31.6 * 10.13 = 320.108(times)
Dwell Times on Cycle (1) * (2)	**128.0432** ms (sec)
LIMIT(msec)	< = 400

Bluetooth 2.0 DH3 Mode

Cycle Calculate	79CH * 0.4 = 31.6 (sec)
The EUT Hopping Number per Sec	1600 times/sec
Each Channel Dwell Times per Sec	400/79CH=5.1(times/sec)
Each Channel Dwell Times (1)	**1.620** ms (sec)
Each Channel Dwell Times on Cycle(2)	31.6*5.1=161.16(times)
Dwell Times on Cycle (1) * (2)	**261.0792** ms (sec)
LIMIT(msec)	< = 400

Bluetooth 2.0 DH5 Mode

Cycle Calculate	79CH * 0.4 = 31.6 (sec)
The EUT Hopping Number per Sec	1600 times/sec
Each Channel Dwell Times per Sec	266.7/79CH=3.37 (times/sec)
Each Channel Dwell Times (1)	**2.880** ms (sec)
Each Channel Dwell Times on Cycle(2)	31.6*3.37=106.492 (times)
Dwell Times on Cycle (1) * (2)	**306.69696**ms (sec)
LIMIT(msec)	< = 400

Note: RB=1MHz; VB=1MHz; SPAN=0MHz; Sweep Time=20msec

8.4.2 Bluetooth EDR Mode:

Bluetooth EDR 3DH1 Mode

Cycle Calculate	79CH * 0.4 = 31.6 (sec)
The EUT Hopping Number per Sec	1600 times/sec
Each Channel Dwell Times per Sec	800/79CH = 10.13(times/sec)
Each Channel Dwell Times (1)	**0.410** ms (sec)
Each Channel Dwell Times on Cycle(2)	31.6 * 10.13 = 320.108(times)
Dwell Times on Cycle (1) * (2)	**131.24428** ms (sec)
LIMIT(msec)	< = 400

Bluetooth EDR 3DH3 Mode

Cycle Calculate	79CH * 0.4 = 31.6 (sec)
The EUT Hopping Number per Sec	1600 times/sec
Each Channel Dwell Times per Sec	400/79CH=5.1(times/sec)
Each Channel Dwell Times (1)	**1.66** ms (sec)
Each Channel Dwell Times on Cycle(2)	31.6*5.1=161.16(times)
Dwell Times on Cycle (1) * (2)	**267.5256** ms (sec)
LIMIT(msec)	< = 400

Bluetooth EDR 3DH5 Mode

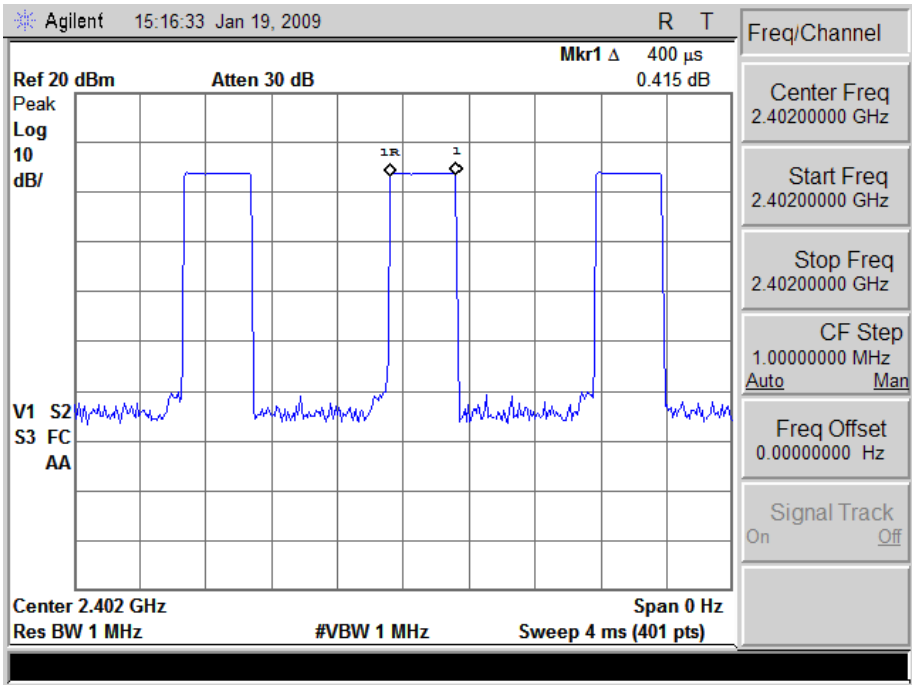
Cycle Calculate	79CH * 0.4 = 31.6 (sec)
The EUT Hopping Number per Sec	1600 times/sec
Each Channel Dwell Times per Sec	266.7/79CH=3.37 (times/sec)
Each Channel Dwell Times (1)	**1.862** ms (sec)
Each Channel Dwell Times on Cycle(2)	31.6*3.37=106.492 (times)
Dwell Times on Cycle (1) * (2)	**198.288104** ms (sec)
LIMIT(msec)	< = 400

Note: RB=1MHz; VB=1MHz; SPAN=0MHz; Sweep Time=20msec

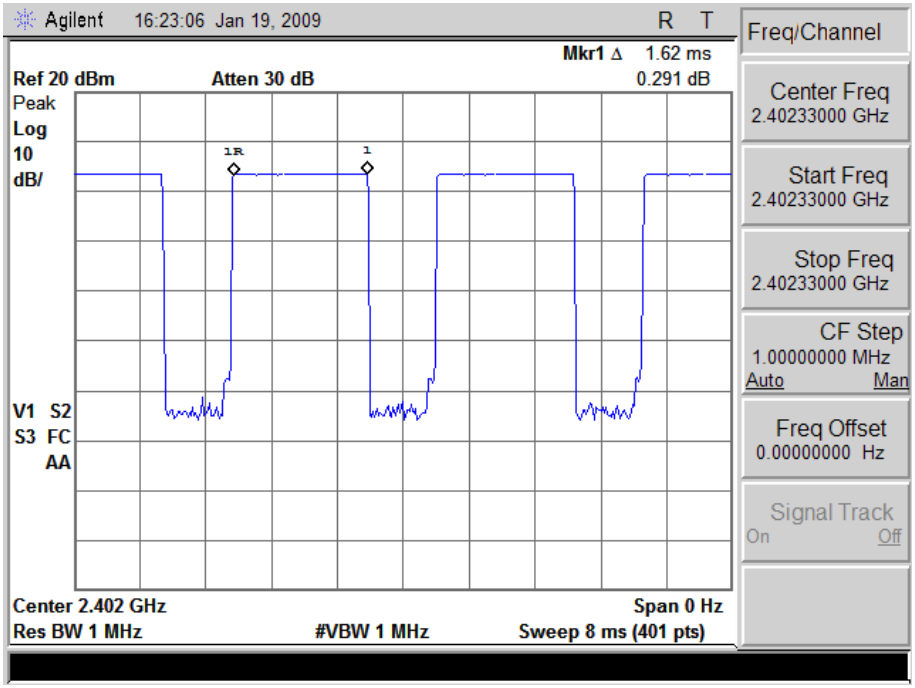
8.5 Test Graphs

8.5.1 Bluetooth 2.0 Mode:

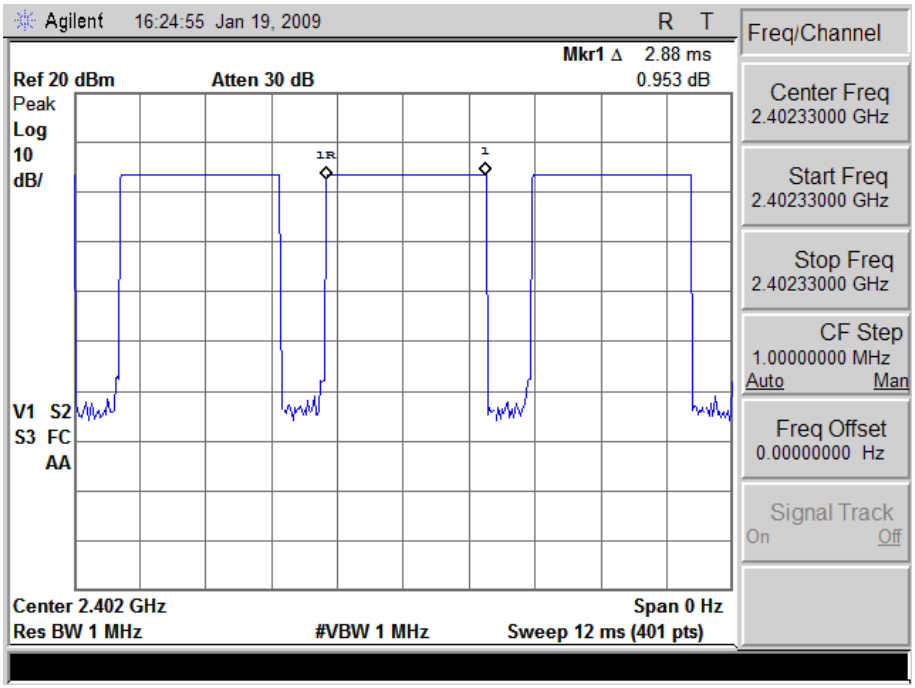
Bluetooth 2.0 DH1



Bluetooth 2.0 DH3

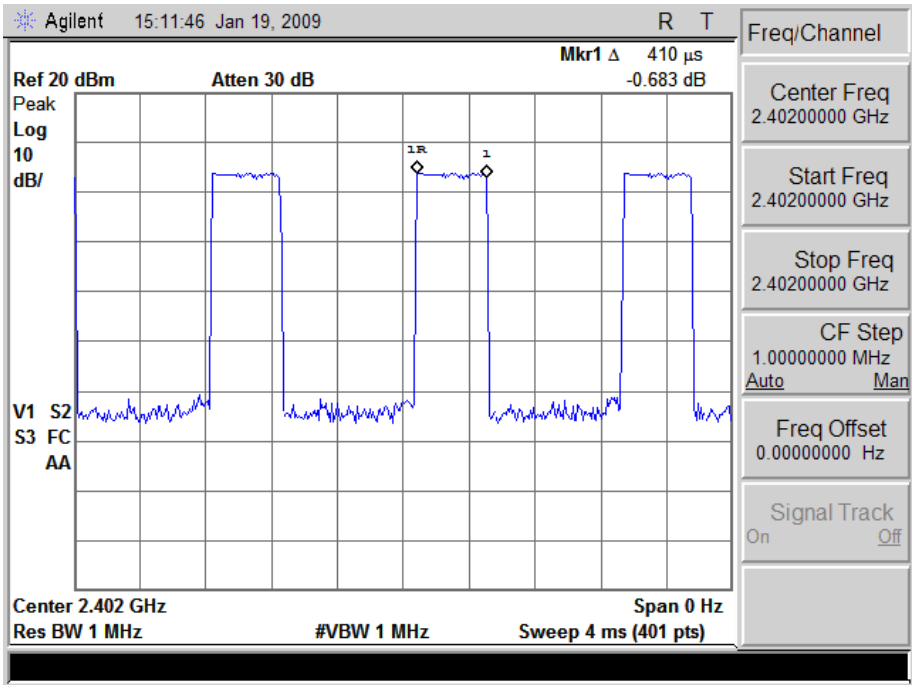


Bluetooth 2.0 DH5

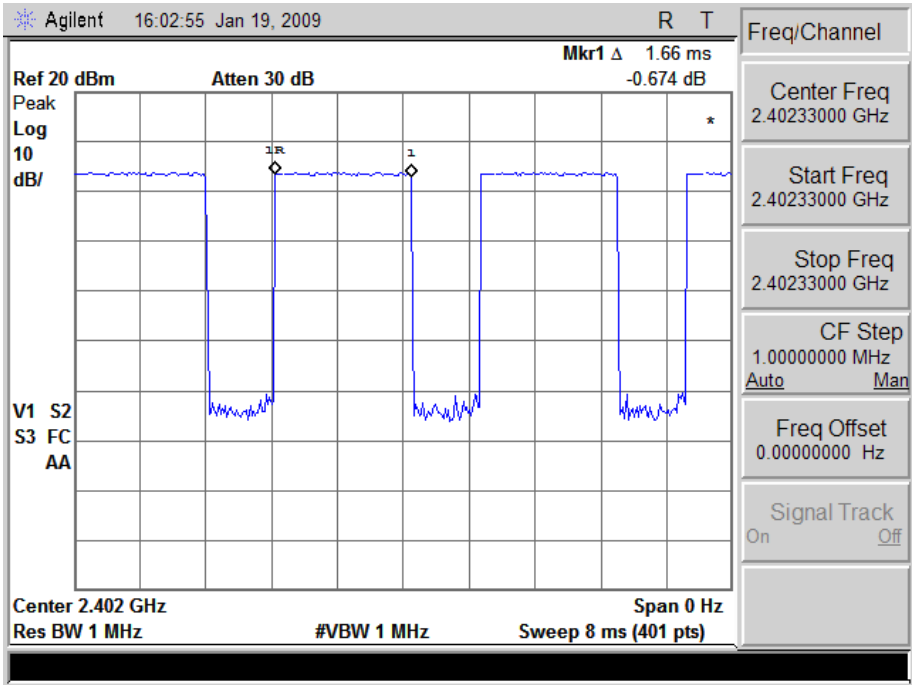


8.5.2 Bluetooth EDR Mode:

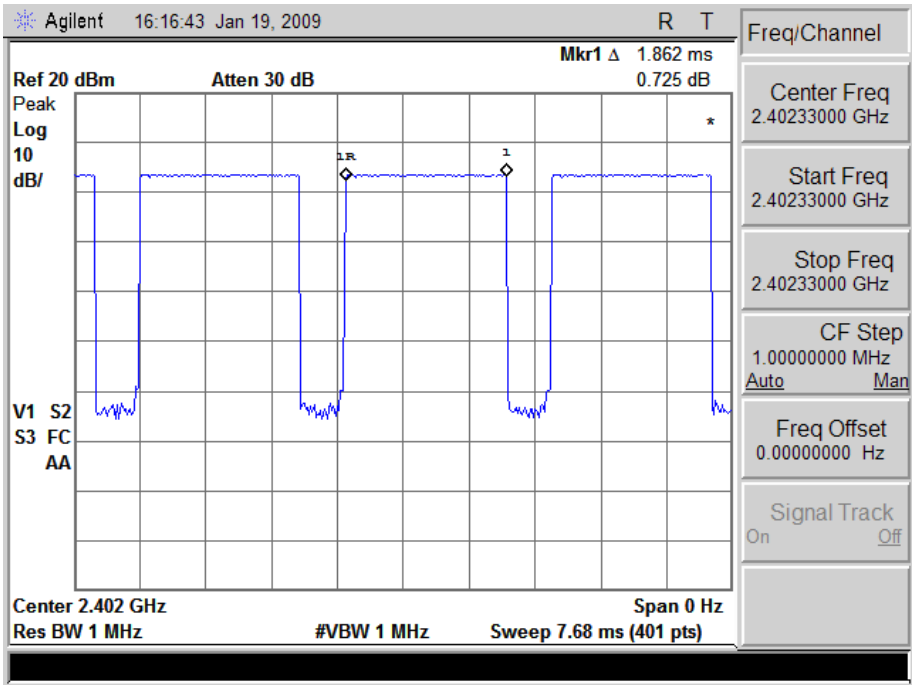
Bluetooth EDR 3DH1



Bluetooth EDR 3DH3



Bluetooth EDR DH5



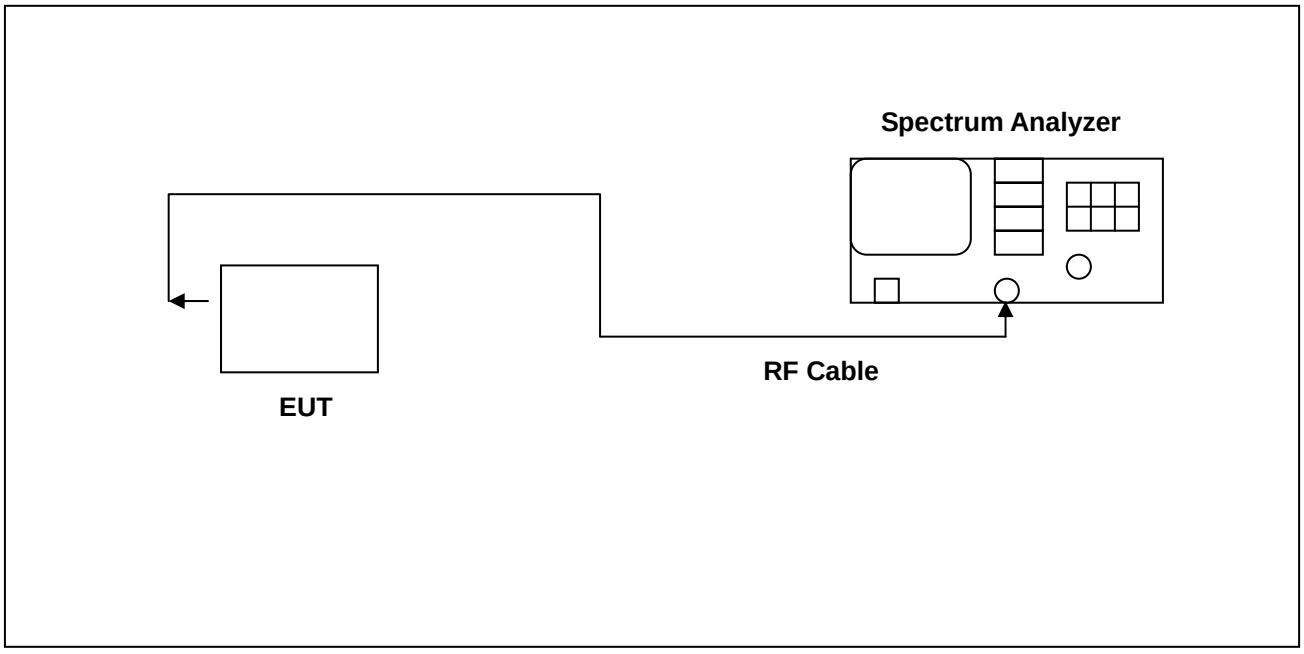
9. Out of Band Conducted Emissions Requirements

9.1 Test Condition & Setup:

In any 100 kHz bandwidth outside the EUT pass band, the RF power produced by the modulation products of the spreading sequence, the information sequence, and the carrier frequency shall be at least 20 dB below that of the maximum in-band 100 kHz emission, antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the pass band. The test was performed at 3 channels (Channel 1, 6, 11)

9.2 Test Instruments Configuration:



9.3 Test Equipment List:

Describe	Manufacturer	Model	Serial Number	Calibration	
				Cal. Date	Due Date
Spectrum Analyzer	Agilent	E4445A	MY46181986	May. 07, 2008	May. 07, 2009

9.4 Test Result:

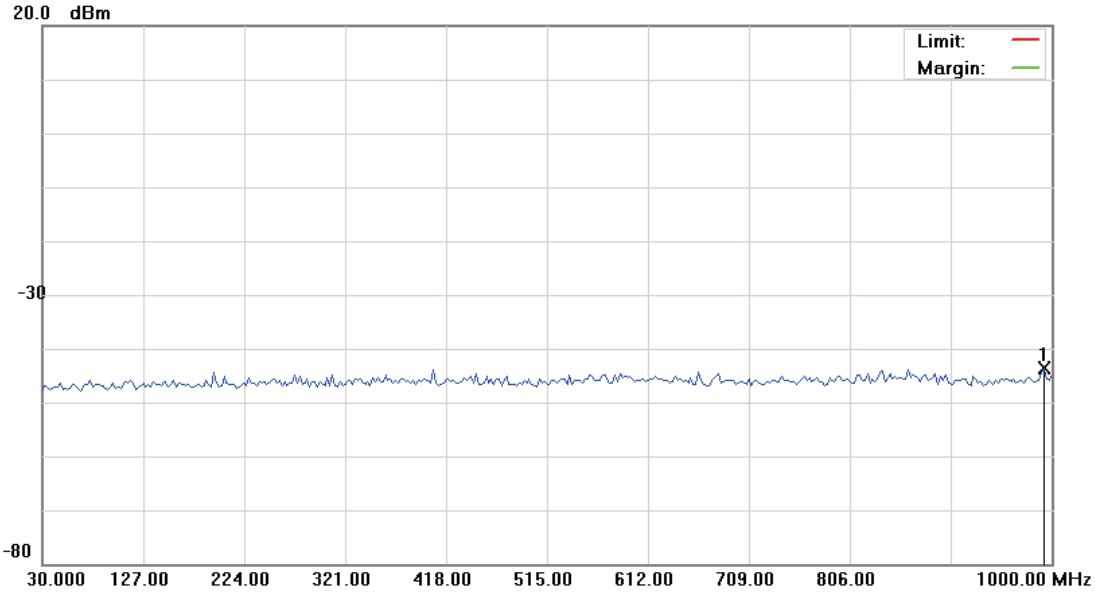
Refer to attached data sheets. Data shows out of band emissions are suppressed well below the -20 dBc minimum required by the Rules.

9.5 Test Graphs

9.5.1 Bluetooth 2.0 Mode:

Applicant : Motorola Inc
Model No : H790
EUT : Universal Bluetooth Headset
Test Mode : Bluetooth 2.0
Test Date : 01/19/2009
Please refer to next pager of detail testing data.

File :Vesurlus(2402) Data :#1 Date: 2009/01/19 Time: 下午 05:39:24



Site site #1
Limit:
EUT:
M/N:
Mode: BT
Note: 2402

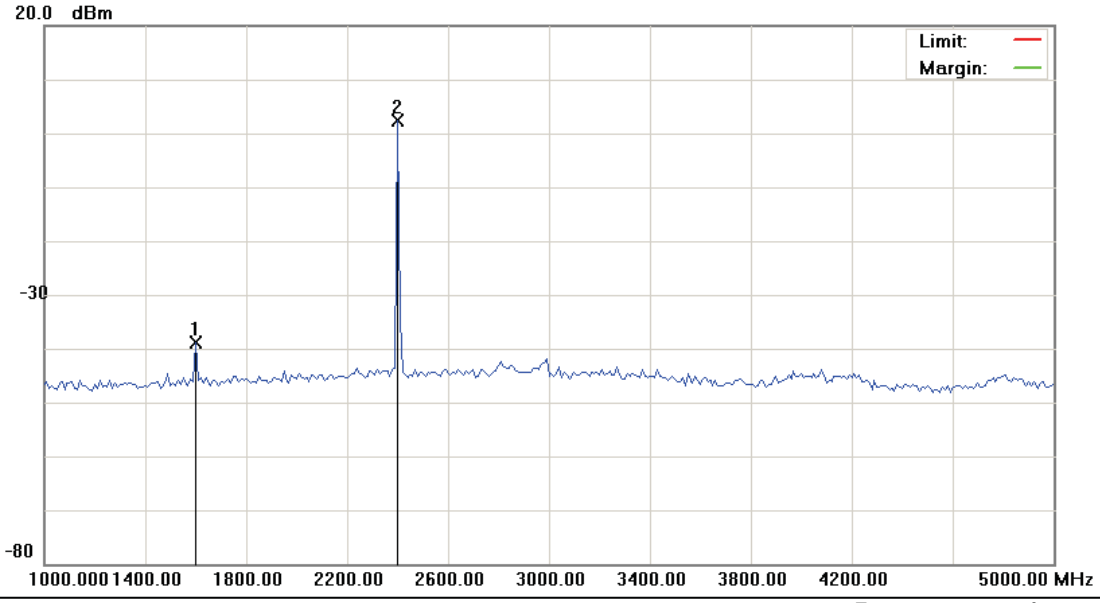
Polarization:
Power: AC 110V/60Hz
Distance:

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	992.7250	-43.72	0.00	-43.72			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2402) Data :#2 Date: 2009/01/19 Time: 下午 05:39:36



Site site #1
Limit:
EUT:
M/N:
Mode: BT
Note: 2402

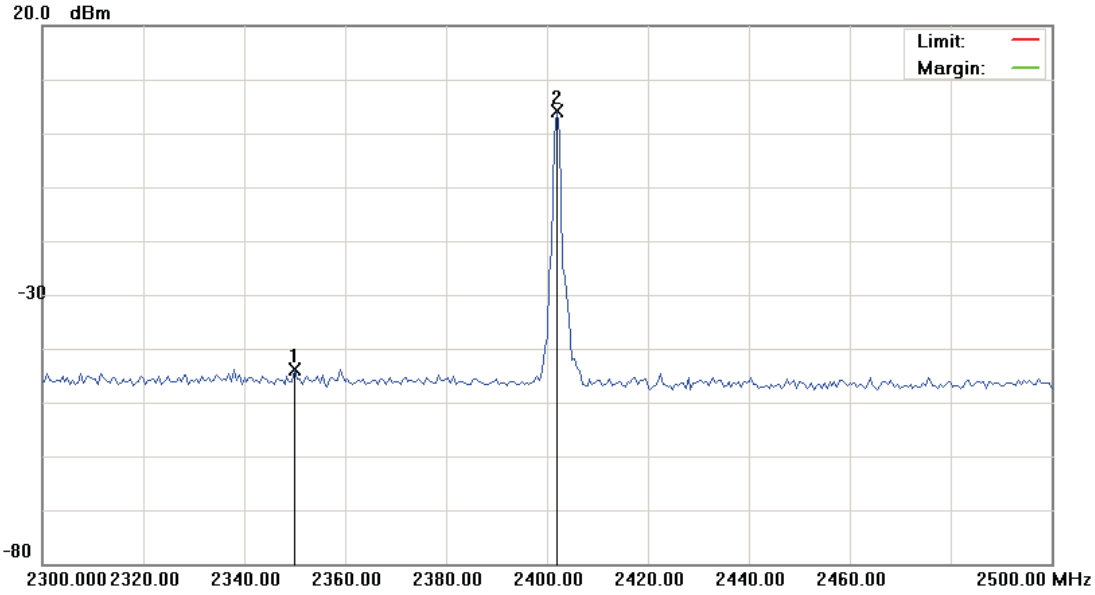
Polarization:
Power: AC 110V/60Hz
Distance:

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		1600.000	-38.99	0.00	-38.99			peak			
2	*	2400.000	2.42	0.00	2.42			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2402) Data :#3 Date: 2009/01/19 Time: 下午 05:39:49



Site site #1
Limit:
EUT:
M/N:
Mode: BT
Note: 2402

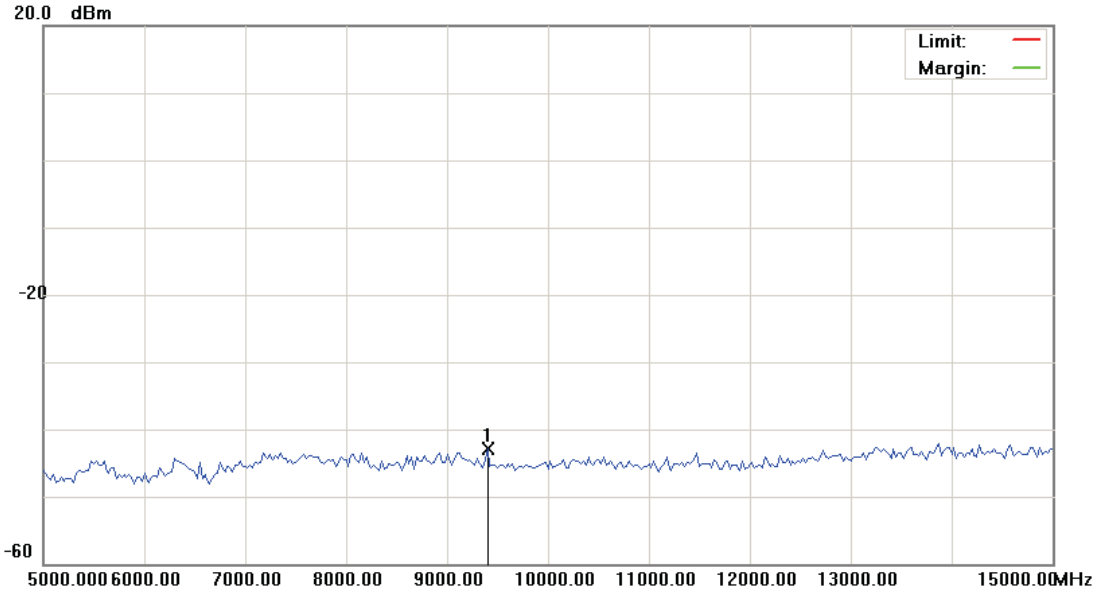
Polarization:
Power: AC 110V/60Hz
Distance:

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		2350.000	-43.86	0.00	-43.86			peak			
2	*	2402.000	4.10	0.00	4.10			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2402) Data :#6 Date: 2009/01/19 Time: 下午 05:40:01

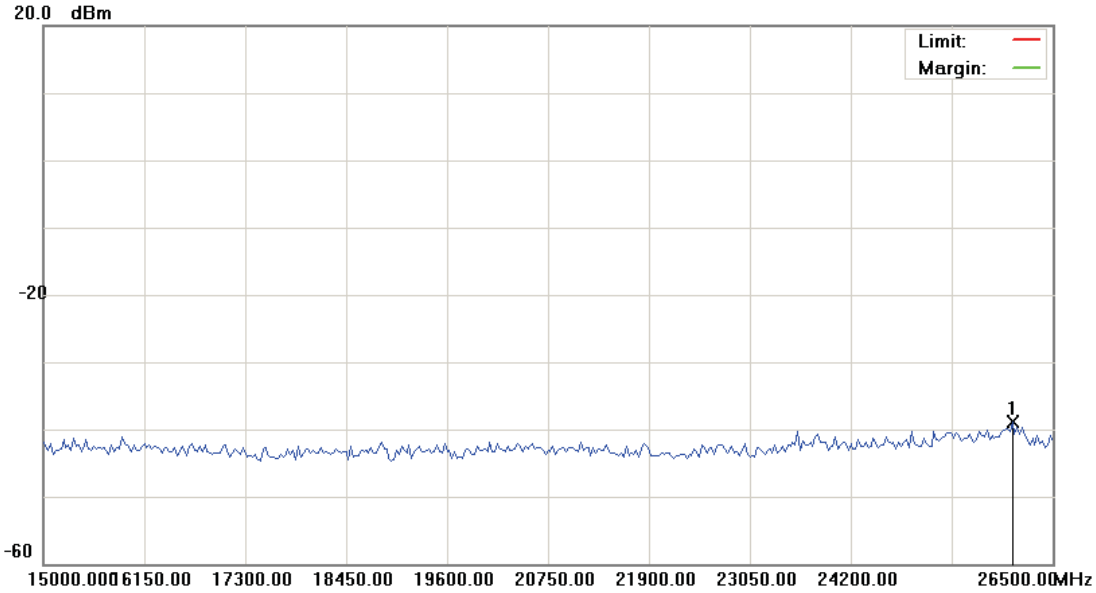


Site site #1	Polarization:	Temperature: 26 ℃
Limit:	Power: AC 110V/60Hz	Humidity: 60 %
EUT:	Distance:	
M/N:		
Mode: BT		
Note: 2402		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	9400.000	-42.83	0.00	-42.83			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2402) Data :#7 Date: 2009/01/19 Time: 下午 05:40:14

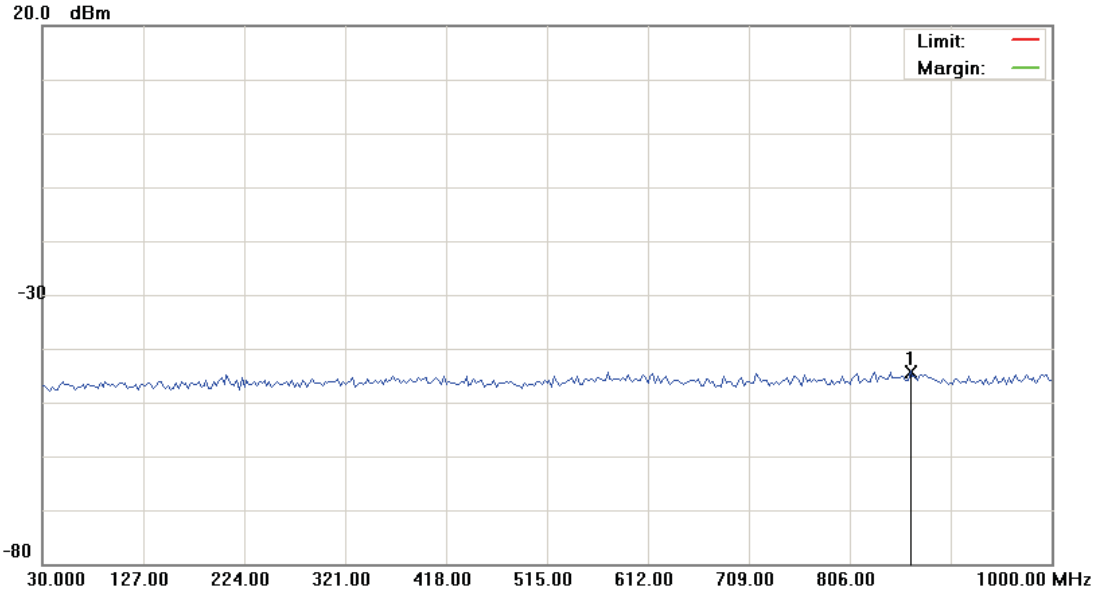


Site site #1	Polarization:	Temperature:	26 ℃
Limit:	Power: AC 110V/60Hz	Humidity:	60 %
EUT:	Distance:		
M/N:			
Mode: BT			
Note: 2402			

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	26040.00	-38.89	0.00	-38.89			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2441) Data :#1 Date: 2009/01/19 Time: 下午 05:41:34



Site site #1
Limit:
EUT:
M/N:
Mode: BT
Note: 2441

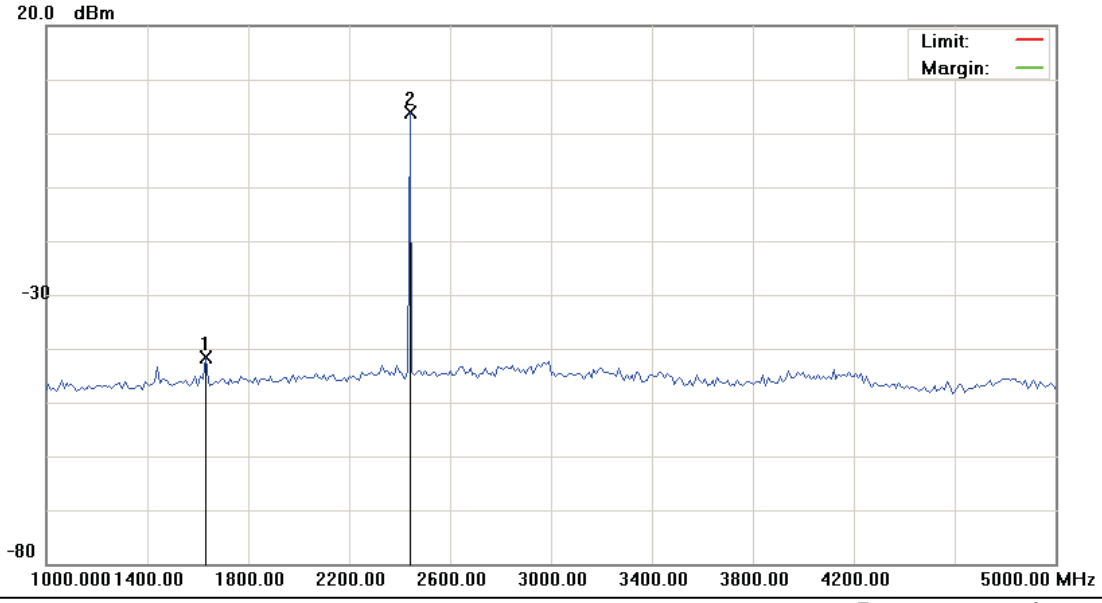
Polarization:
Power: AC 110V/60Hz
Distance:

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	864.2000	-44.25	0.00	-44.25			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2441) Data :#2 Date: 2009/01/19 Time: 下午 05:41:47

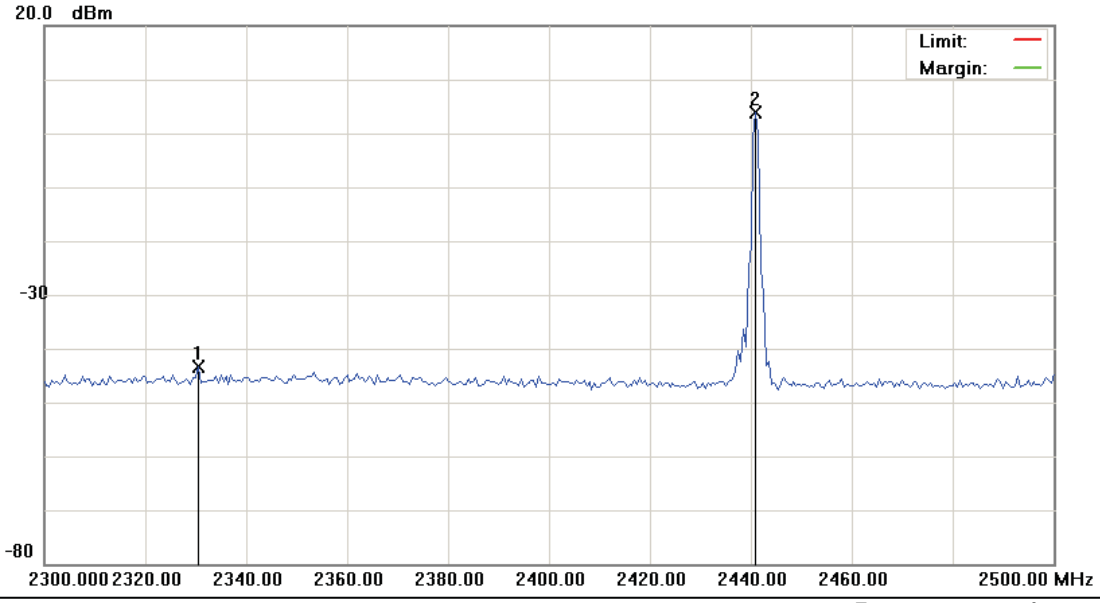


Site site #1	Polarization:	Temperature: 22 ℃
Limit:	Power: AC 110V/60Hz	Humidity: 60 %
EUT:	Distance:	
M/N:		
Mode: BT		
Note: 2441		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		1630.000	-41.62	0.00	-41.62			peak			
2	*	2440.000	3.83	0.00	3.83			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2441) Data :#3 Date: 2009/01/19 Time: 下午 05:41:59



Site site #1
Limit:
EUT:
M/N:
Mode: BT
Note: 2441

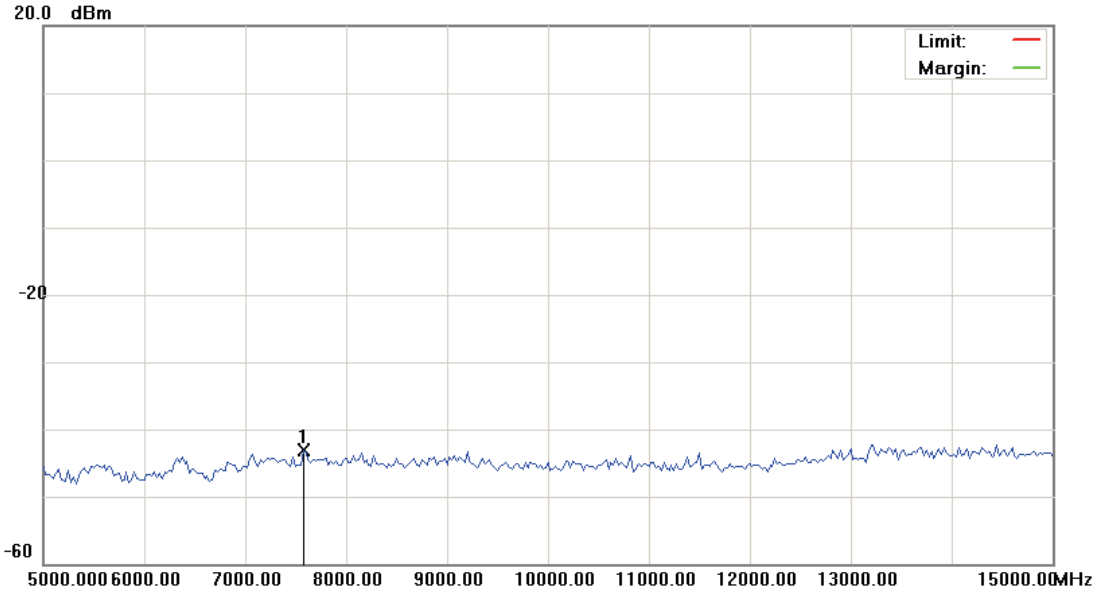
Polarization:
Power: AC 110V/60Hz
Distance:

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		2330.500	-43.39	0.00	-43.39			peak			
2	*	2441.000	3.87	0.00	3.87			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2441) Data :#6 Date: 2009/01/19 Time: 下午 05:42:12



Site site #1
Limit:
EUT:
M/N:
Mode: BT
Note: 2441

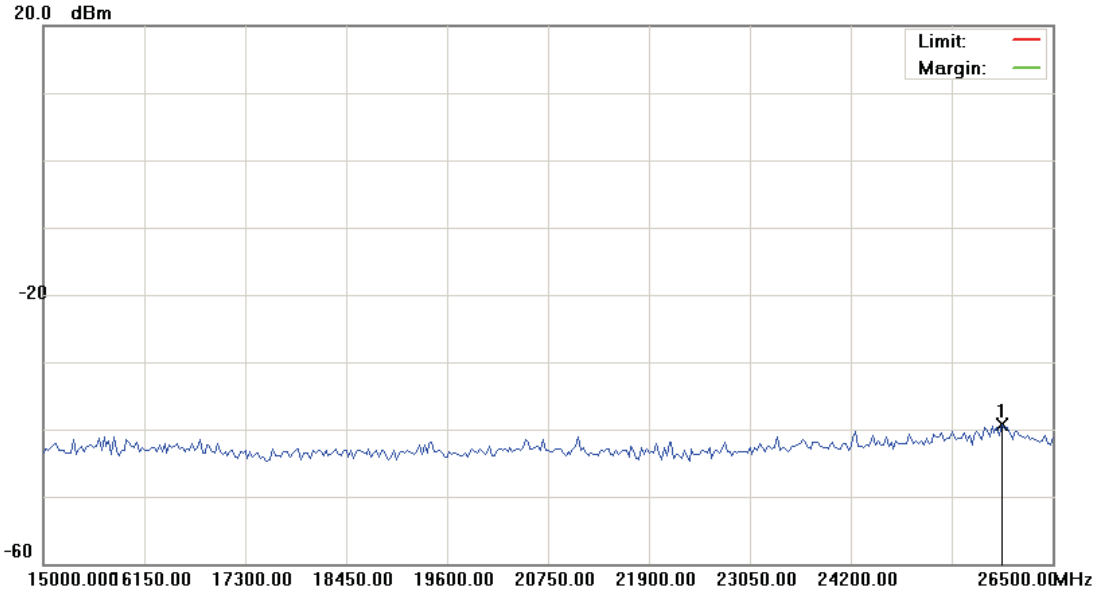
Polarization:
Power: AC 110V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	7575.000	-43.03	0.00	-43.03			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2441) Data :#7 Date: 2009/01/19 Time: 下午 05:42:25

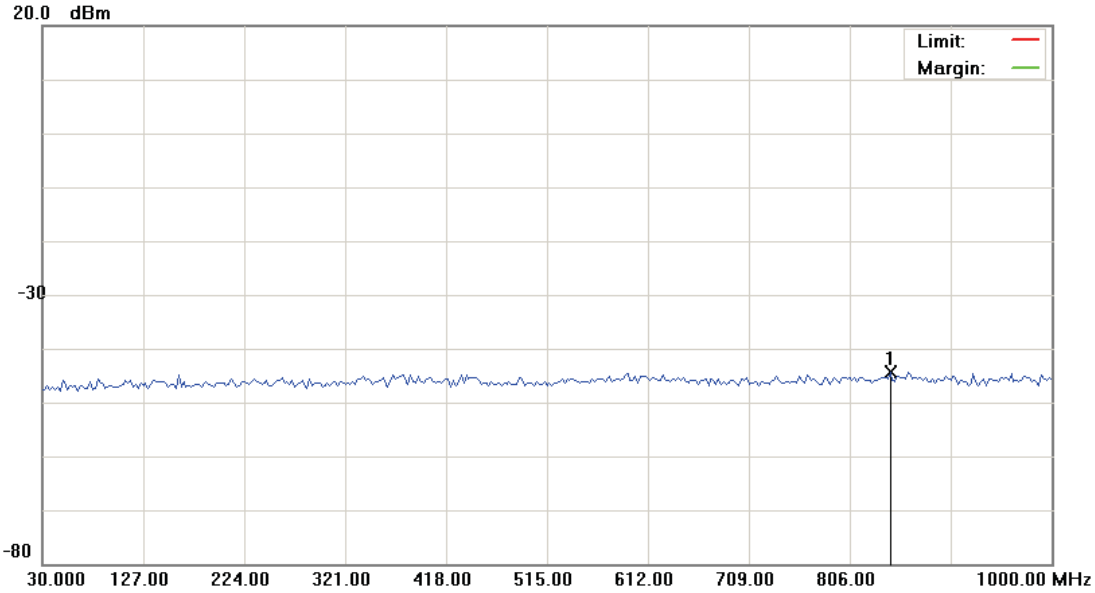


Site site #1	Polarization:	Temperature: 26 ℃
Limit:	Power: AC 110V/60Hz	Humidity: 60 %
EUT:	Distance:	
M/N:		
Mode: BT		
Note: 2441		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	25925.00	-39.29	0.00	-39.29			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2480) Data :#1 Date: 2009/01/19 Time: 下午 05:43:02

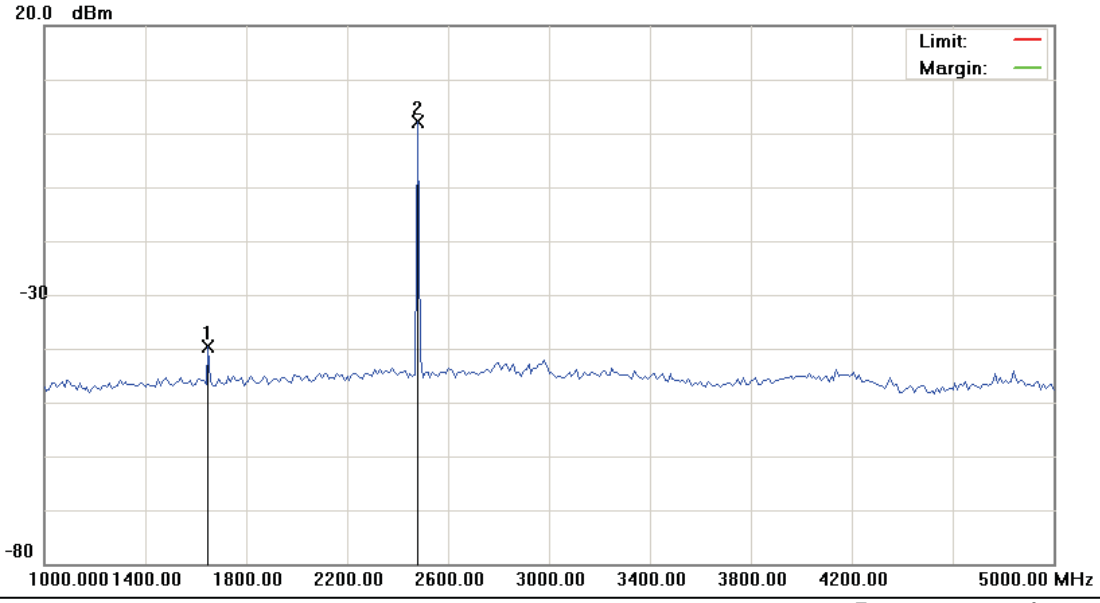


Site site #1	Polarization:	Temperature: 22 ℃
Limit:	Power: AC 110V/60Hz	Humidity: 60 %
EUT:	Distance:	
M/N:		
Mode: BT		
Note: 2480		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	844.8000	-44.27	0.00	-44.27			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2480) Data :#2 Date: 2009/01/19 Time: 下午 05:43:15



Site site #1
Limit:
EUT:
M/N:
Mode: BT
Note: 2480

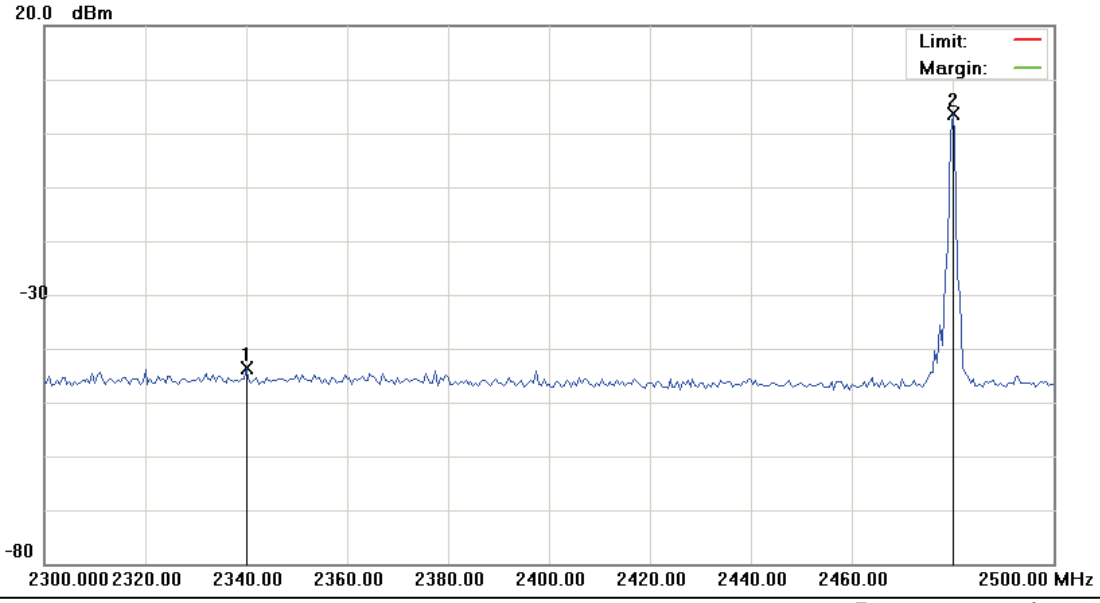
Polarization:
Power: AC 110V/60Hz
Distance:

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		1650.000	-39.58	0.00	-39.58			peak			
2	*	2480.000	2.22	0.00	2.22			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2480) Data :#3 Date: 2009/01/19 Time: 下午 05:43:27

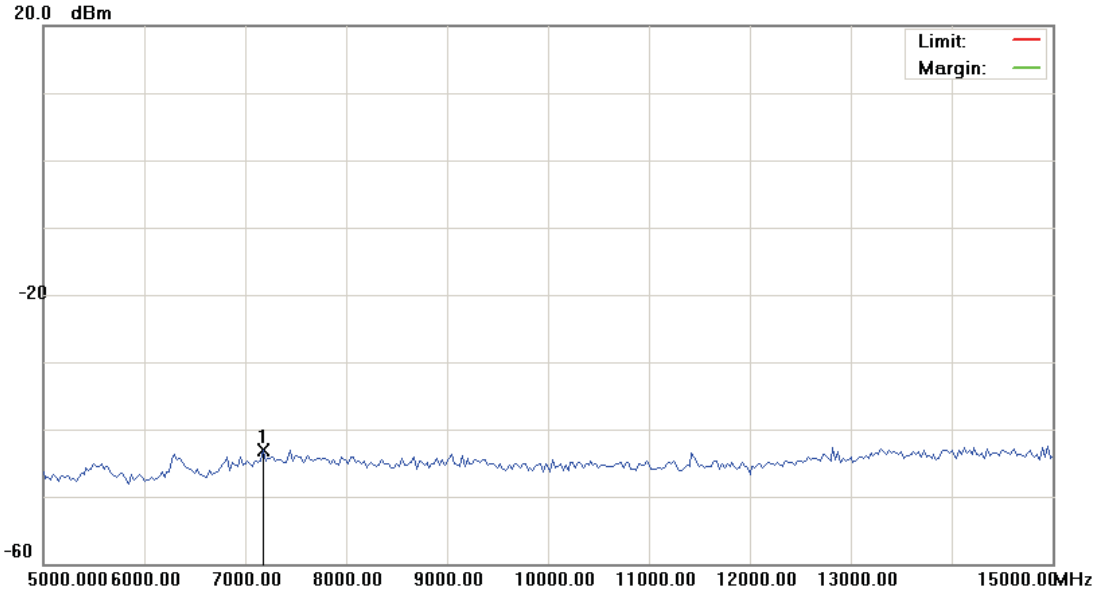


Site site #1	Polarization:	Temperature: 22 ℃
Limit:	Power: AC 110V/60Hz	Humidity: 60 %
EUT:	Distance:	
M/N:		
Mode: BT		
Note: 2480		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		2340.000	-43.69	0.00	-43.69			peak			
2	*	2480.000	3.54	0.00	3.54			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2480) Data :#6 Date: 2009/01/19 Time: 下午 05:43:40

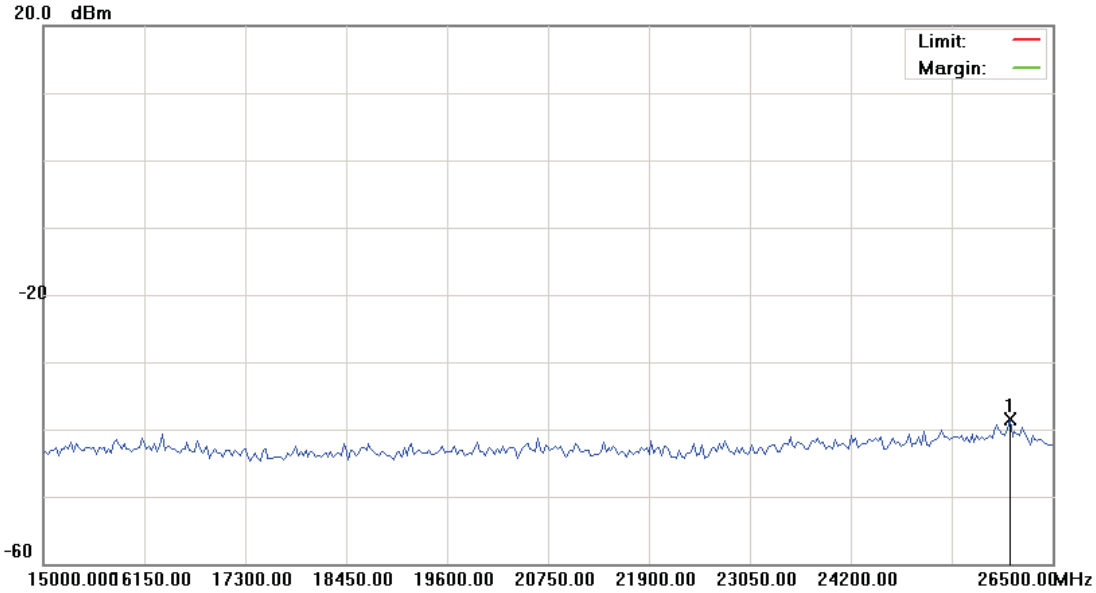


Site site #1	Polarization:	Temperature: 26 ℃
Limit:	Power: AC 110V/60Hz	Humidity: 60 %
EUT:	Distance:	
M/N:		
Mode: BT		
Note: 2480		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	7175.000	-43.05	0.00	-43.05			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2480) Data :#7 Date: 2009/01/19 Time: 下午 05:43:53



Site site #1	Polarization:	Temperature:	26 ℃
Limit:	Power: AC 110V/60Hz	Humidity:	60 %
EUT:	Distance:		
M/N:			
Mode: BT			
Note: 2480			

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	26011.25	-38.55	0.00	-38.55			peak			

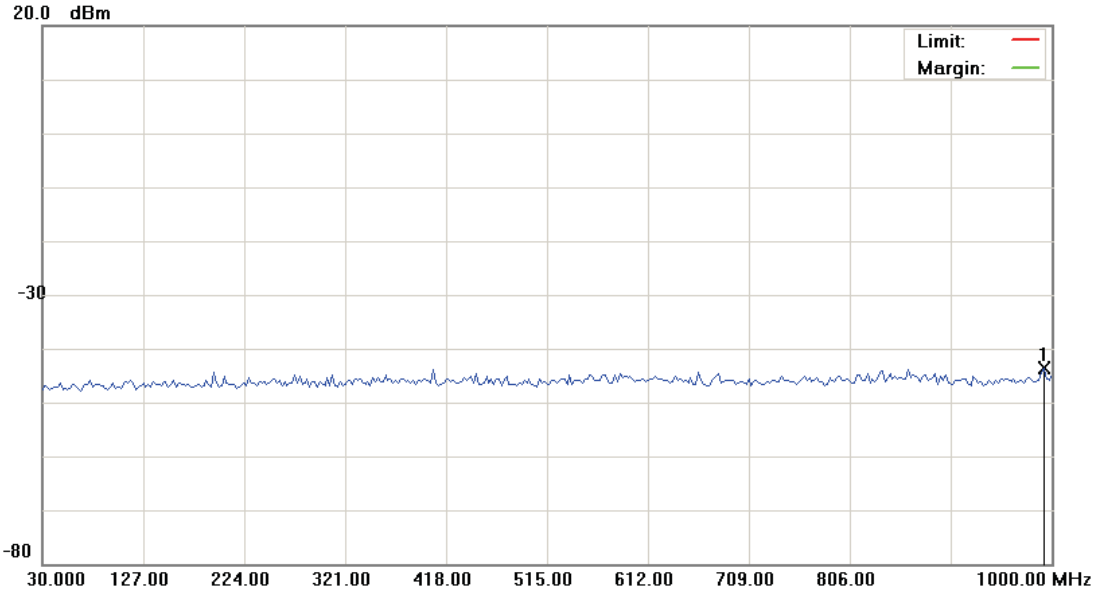
*:Maximum data x:Over limit !:over margin ●Reference Only

9.5.2 Bluetooth EDR Mode:

Applicant	: Motorola Inc
Model No	: H790
EUT	: Universal Bluetooth Headset
Test Mode	: Bluetooth EDR
Test Date	: 01/19/2009

Please refer to next pager of detail testing data.

File :Vesurlus(2402) Data :#1 Date: 2009/01/19 Time: 下午 05:39:24



Site site #1
Limit:
EUT:
M/N:
Mode: BT+EDR
Note: 2402

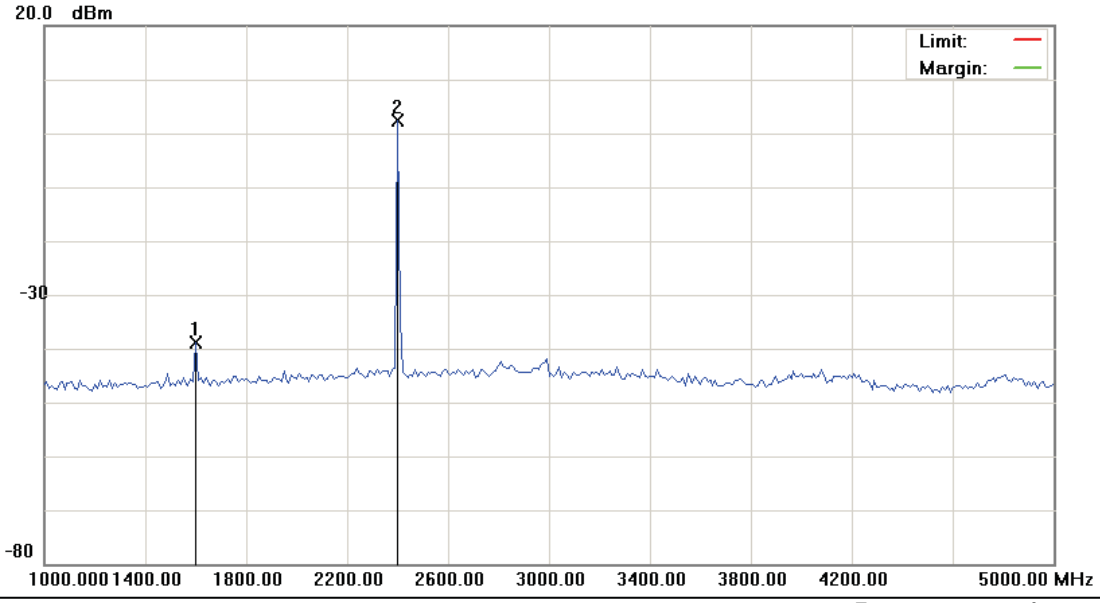
Polarization:
Power: AC 110V/60Hz
Distance:

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	992.7250	-43.72	0.00	-43.72			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2402) Data :#2 Date: 2009/01/19 Time: 下午 05:39:36



Site site #1
Limit:
EUT:
M/N:
Mode: BT+EDR
Note: 2402

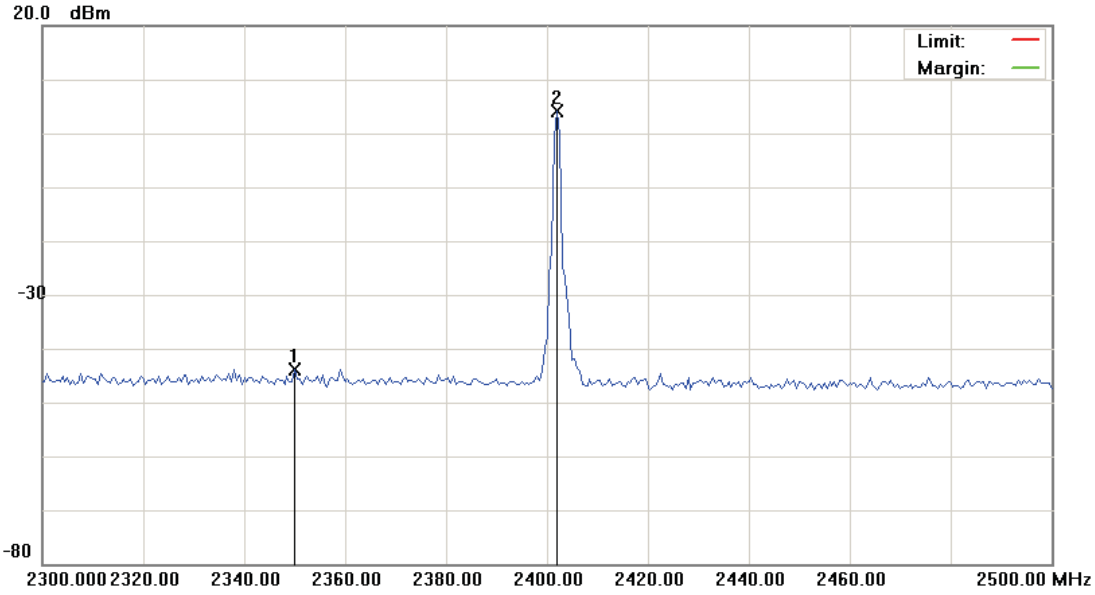
Polarization:
Power: AC 110V/60Hz
Distance:

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		1600.000	-38.99	0.00	-38.99			peak			
2	*	2400.000	2.42	0.00	2.42			peak			主频TX

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2402) Data :#3 Date: 2009/01/19 Time: 下午 05:39:49



Site site #1
Limit:
EUT:
M/N:
Mode: BT+EDR
Note: 2402

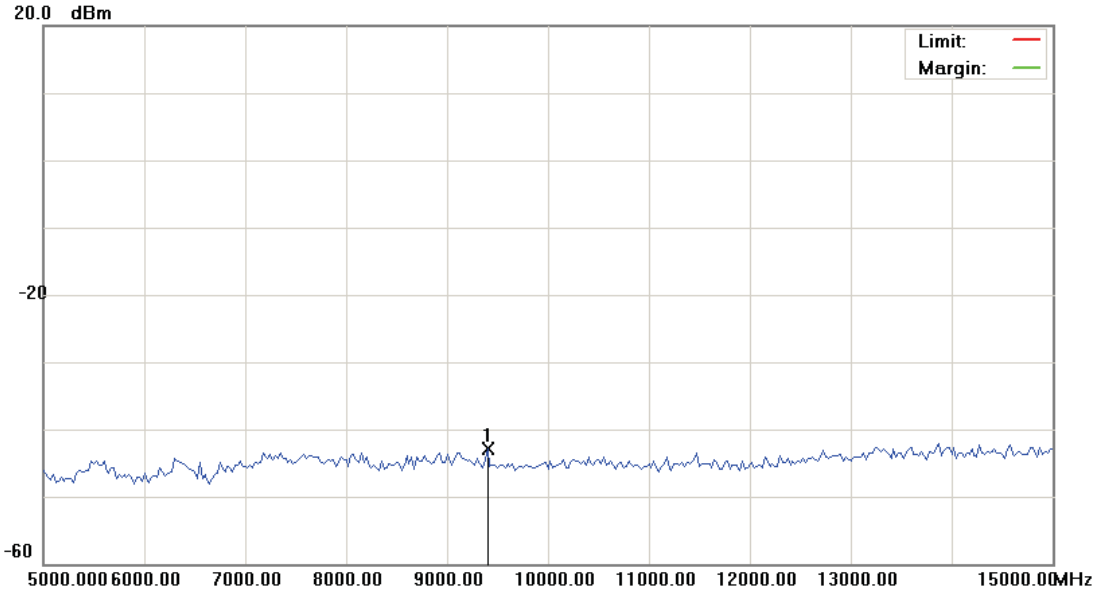
Polarization:
Power: AC 110V/60Hz
Distance:

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		2350.000	-43.86	0.00	-43.86			peak			
2	*	2402.000	4.10	0.00	4.10			peak			主频TX

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2402) Data :#6 Date: 2009/01/19 Time: 下午 05:40:01



Site site #1
Limit:
EUT:
M/N:
Mode: BT+EDR
Note: 2402

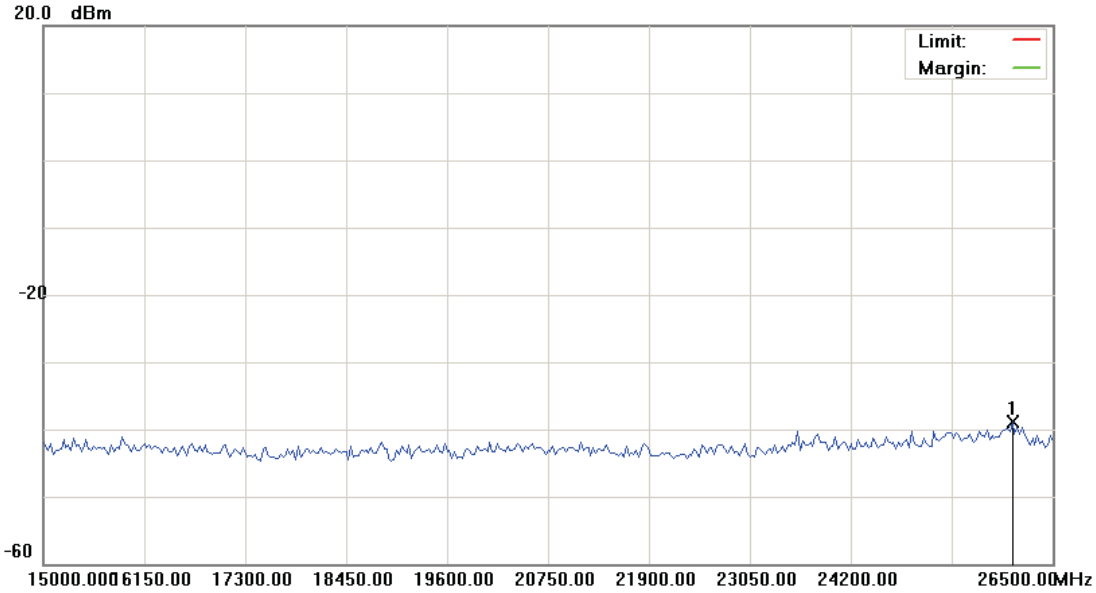
Polarization:
Power: AC 110V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	9400.000	-42.83	0.00	-42.83			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2402) Data :#7 Date: 2009/01/19 Time: 下午 05:40:14

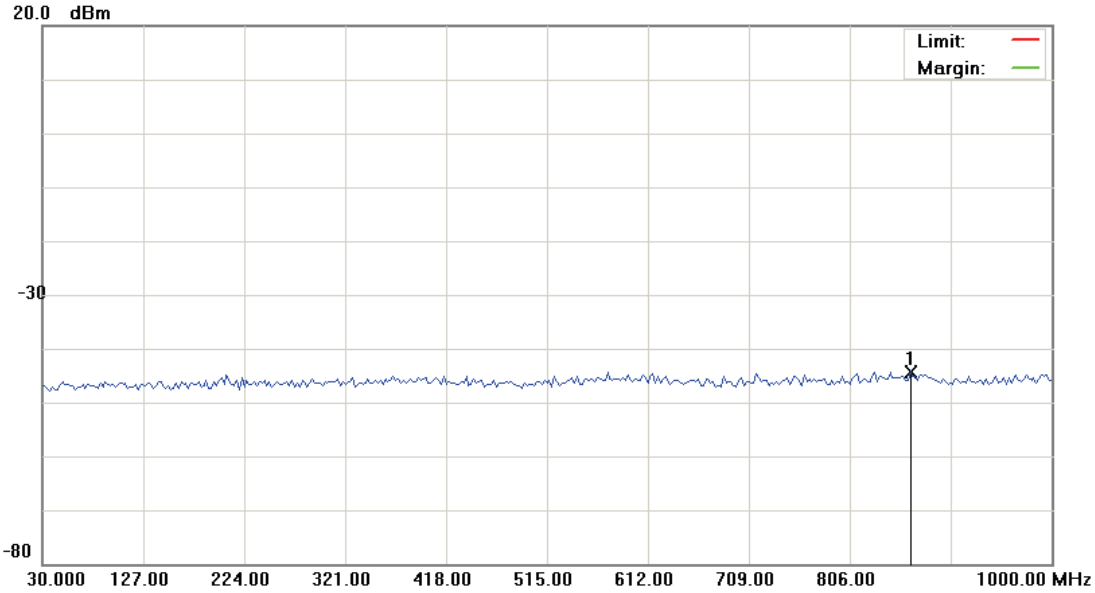


Site site #1	Polarization:	Temperature:	26 ℃
Limit:	Power: AC 110V/60Hz	Humidity:	60 %
EUT:	Distance:		
M/N:			
Mode: BT+EDR			
Note: 2402			

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	26040.00	-38.89	0.00	-38.89			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2441) Data :#1 Date: 2009/01/19 Time: 下午 05:41:34



Site site #1
Limit:
EUT:
M/N:
Mode: BT+EDR
Note: 2441

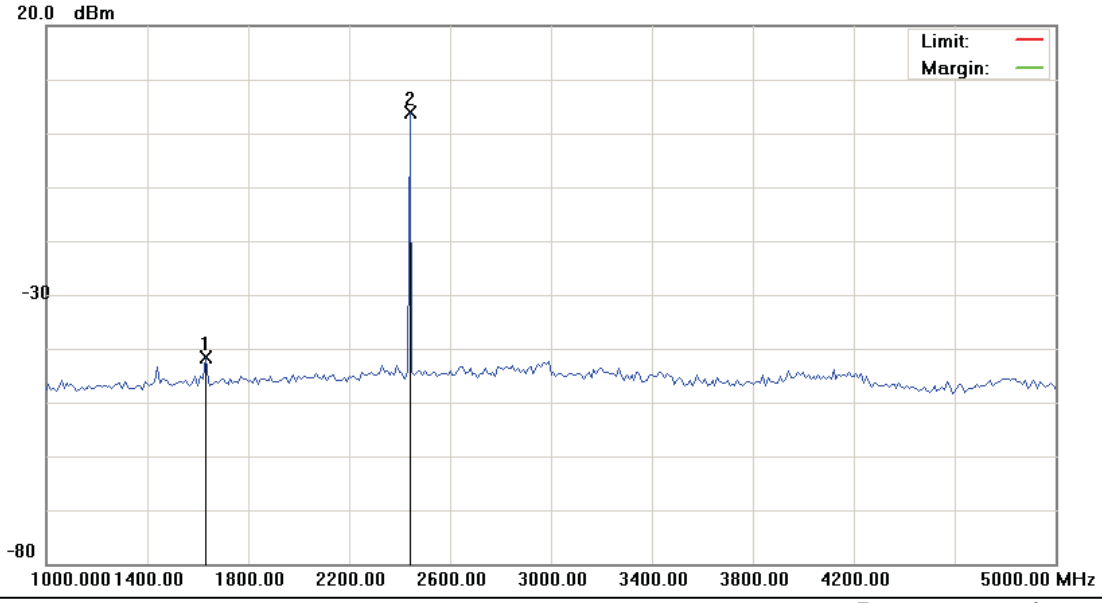
Polarization:
Power: AC 110V/60Hz
Distance:

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	864.2000	-44.25	0.00	-44.25			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2441) Data :#2 Date: 2009/01/19 Time: 下午 05:41:47



Site site #1
Limit:
EUT:
M/N:
Mode: BT+EDR
Note: 2441

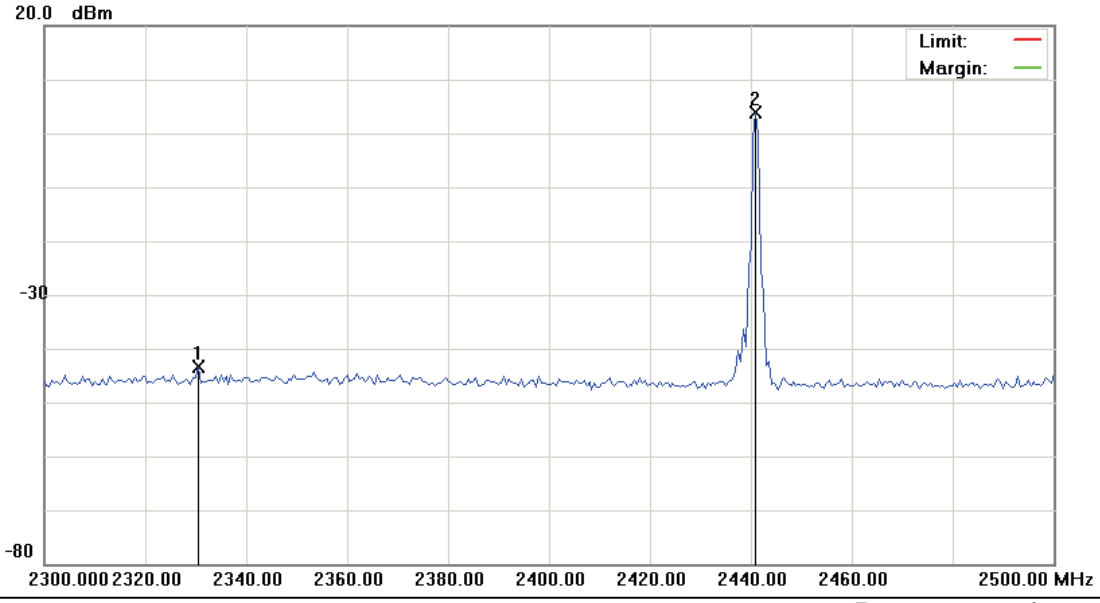
Polarization:
Power: AC 110V/60Hz
Distance:

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		1630.000	-41.62	0.00	-41.62			peak			
2	*	2440.000	3.83	0.00	3.83			peak			主频TX

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2441) Data :#3 Date: 2009/01/19 Time: 下午 05:41:59



Site site #1
Limit:
EUT:
M/N:
Mode: BT+EDR
Note: 2441

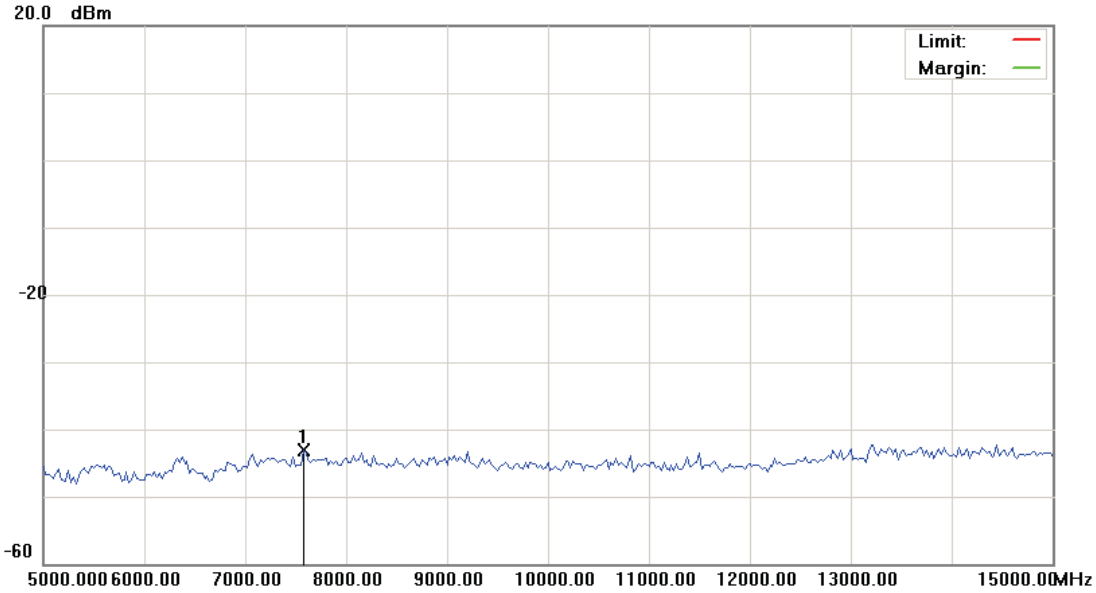
Polarization:
Power: AC 110V/60Hz
Distance:

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		2330.500	-43.39	0.00	-43.39			peak			
2	*	2441.000	3.87	0.00	3.87			peak			主频TX

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2441) Data :#6 Date: 2009/01/19 Time: 下午 05:42:12



Site site #1
Limit:
EUT:
M/N:
Mode: BT+EDR
Note: 2441

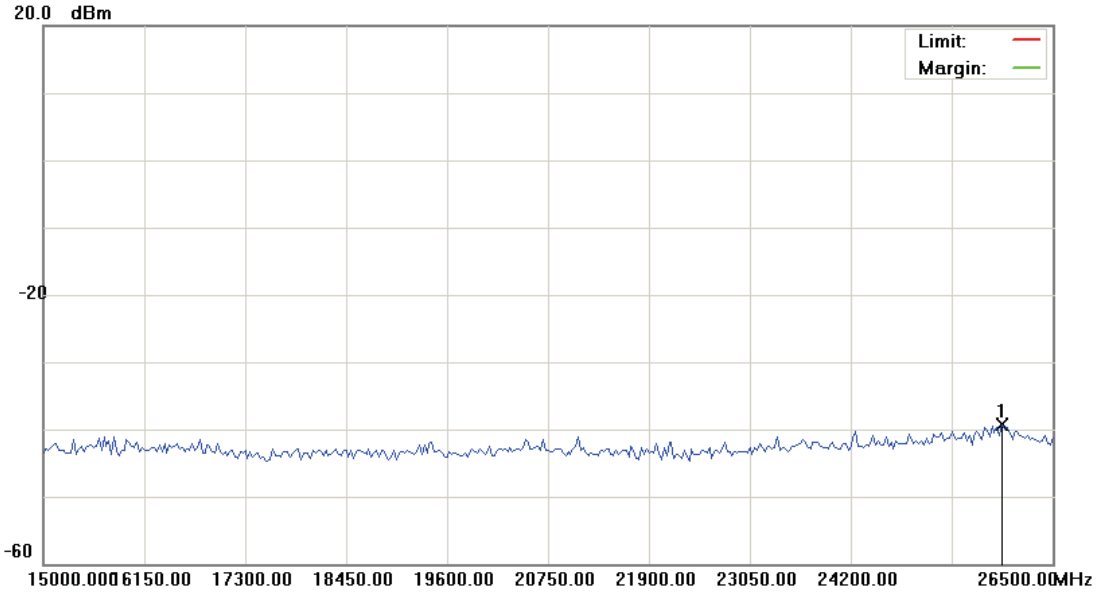
Polarization:
Power: AC 110V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	7575.000	-43.03	0.00	-43.03			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2441) Data :#7 Date: 2009/01/19 Time: 下午 05:42:25

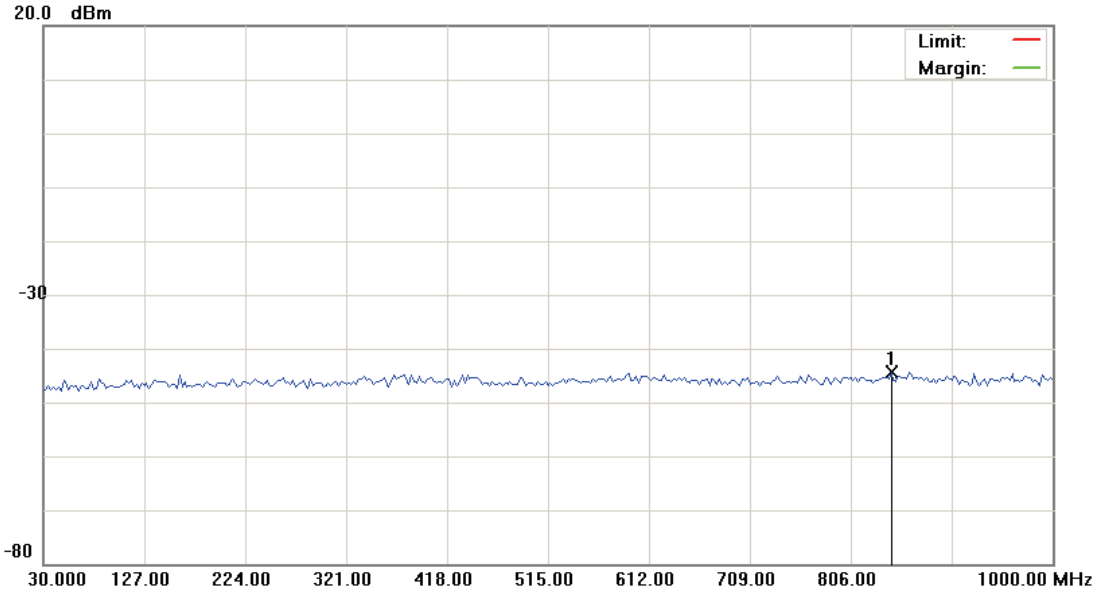


Site site #1	Polarization:	Temperature: 26 ℃
Limit:	Power: AC 110V/60Hz	Humidity: 60 %
EUT:	Distance:	
M/N:		
Mode: BT+EDR		
Note: 2441		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	25925.00	-39.29	0.00	-39.29			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2480) Data :#1 Date: 2009/01/19 Time: 下午 05:43:02

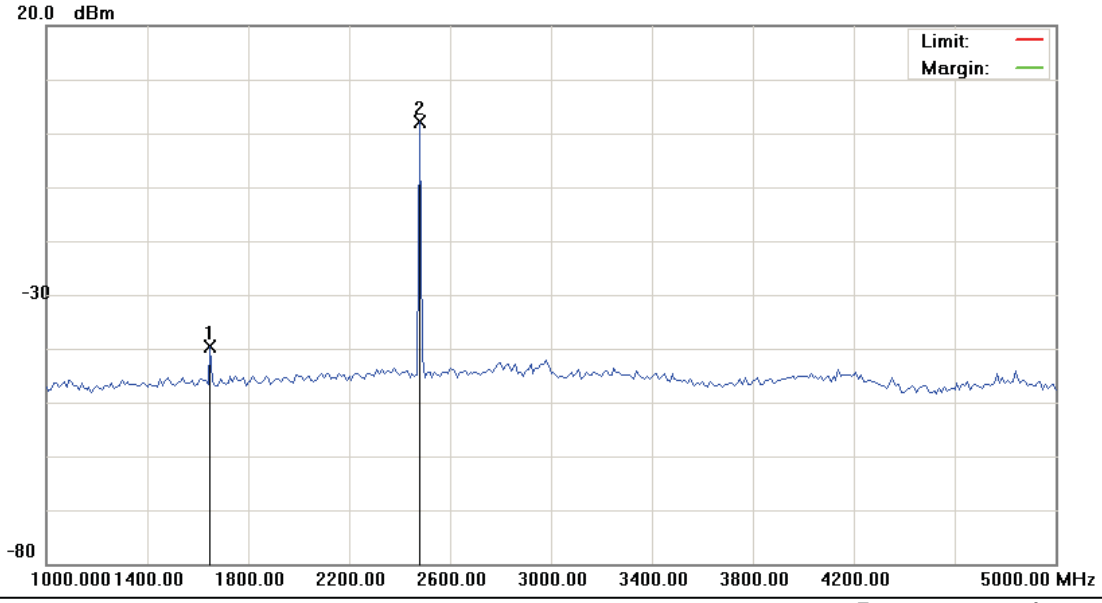


Site site #1	Polarization:	Temperature: 22 ℃
Limit:	Power: AC 110V/60Hz	Humidity: 60 %
EUT:	Distance:	
M/N:		
Mode: BT+EDR		
Note: 2480		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	844.8000	-44.27	0.00	-44.27			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2480) Data :#2 Date: 2009/01/19 Time: 下午 05:43:15



Site site #1
Limit:
EUT:
M/N:
Mode: BT+EDR
Note: 2480

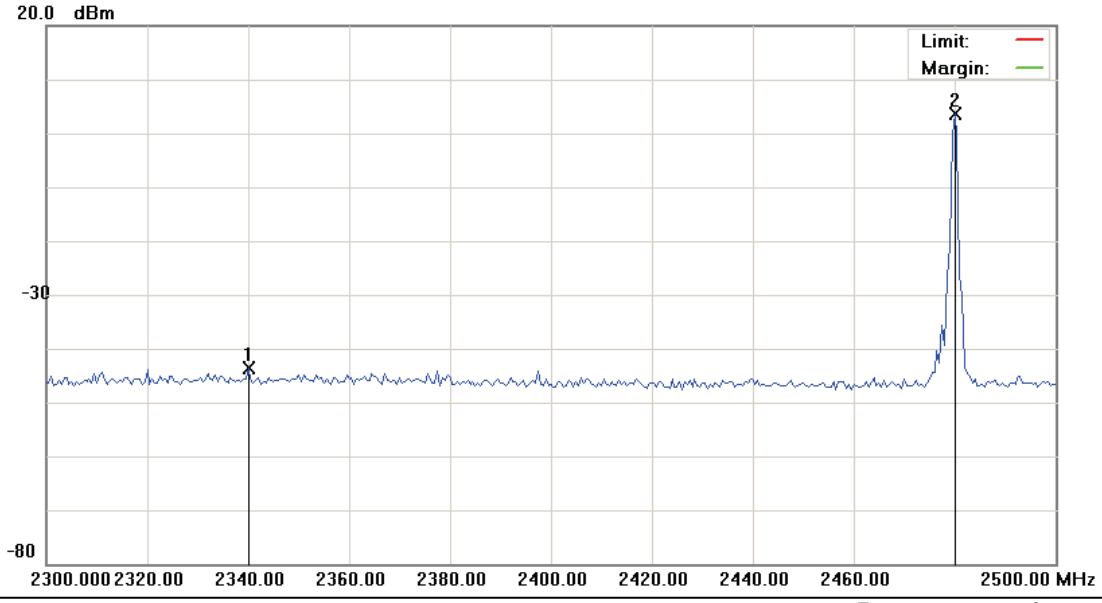
Polarization:
Power: AC 110V/60Hz
Distance:

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		1650.000	-39.58	0.00	-39.58			peak			
2	*	2480.000	2.22	0.00	2.22			peak			主频TX

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2480) Data :#3 Date: 2009/01/19 Time: 下午 05:43:27

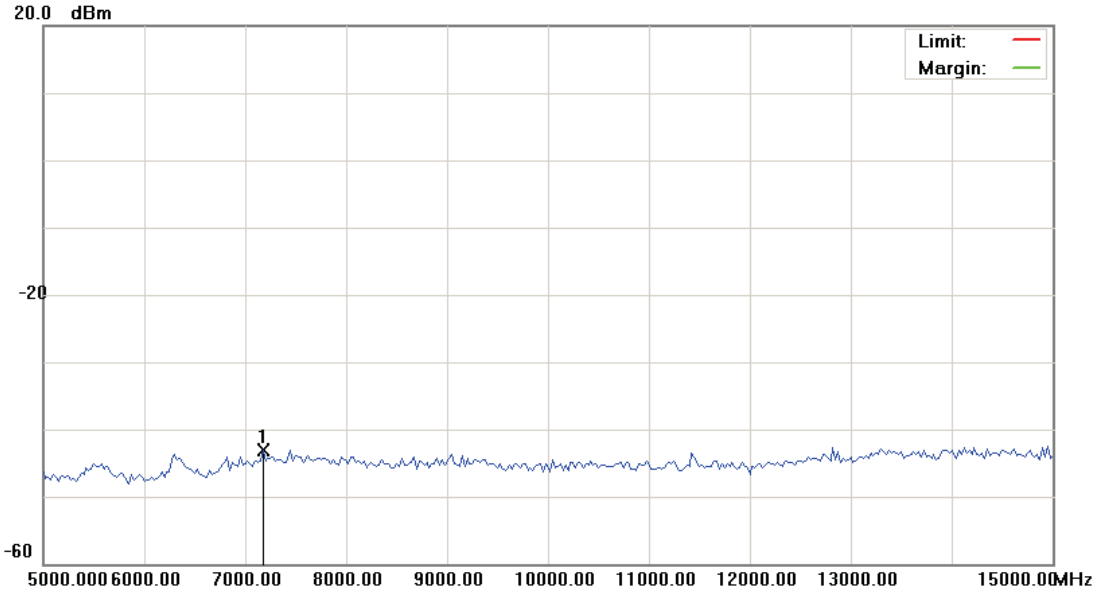


Site site #1	Polarization:	Temperature: 22 ℃
Limit:	Power: AC 110V/60Hz	Humidity: 60 %
EUT:	Distance:	
M/N:		
Mode: BT+EDR		
Note: 2480		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		2340.000	-43.69	0.00	-43.69			peak			
2	*	2480.000	3.54	0.00	3.54			peak			主頻TX

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2480) Data :#6 Date: 2009/01/19 Time: 下午 05:43:40



Site site #1
Limit:
EUT:
M/N:
Mode: BT+EDR
Note: 2480

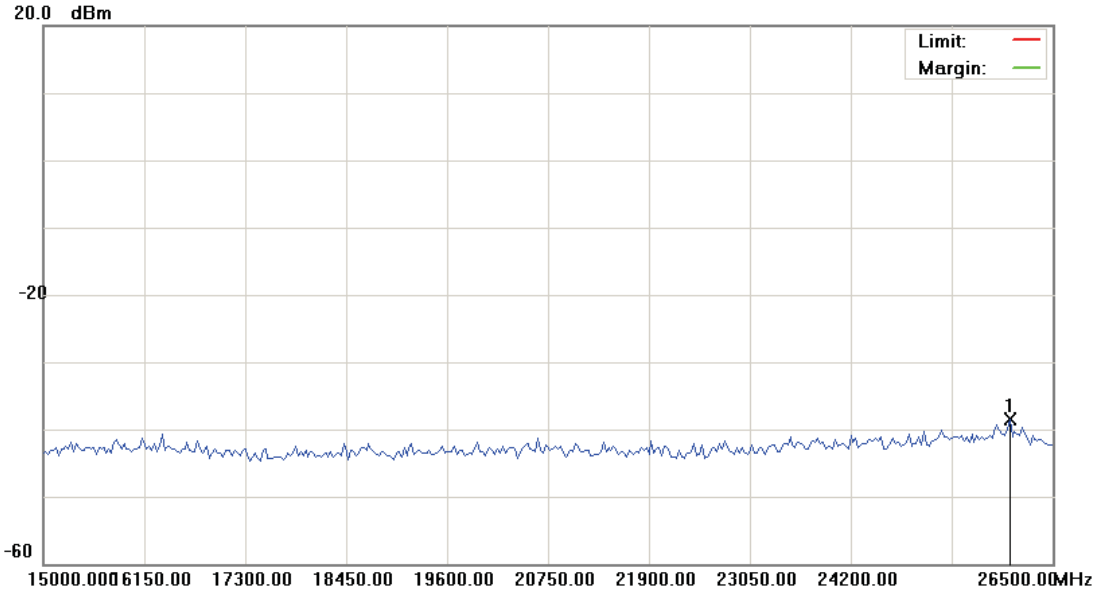
Polarization:
Power: AC 110V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	7175.000	-43.05	0.00	-43.05			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

File :Vesurlus(2480) Data :#7 Date: 2009/01/19 Time: 下午 05:43:53



Site site #1	Polarization:	Temperature: 26 ℃
Limit:	Power: AC 110V/60Hz	Humidity: 60 %
EUT:	Distance:	
M/N:		
Mode: BT+EDR		
Note: 2480		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	26011.25	-38.55	0.00	-38.55			peak			

*:Maximum data x:Over limit !:over margin ●Reference Only

10. Band Edges Requirements

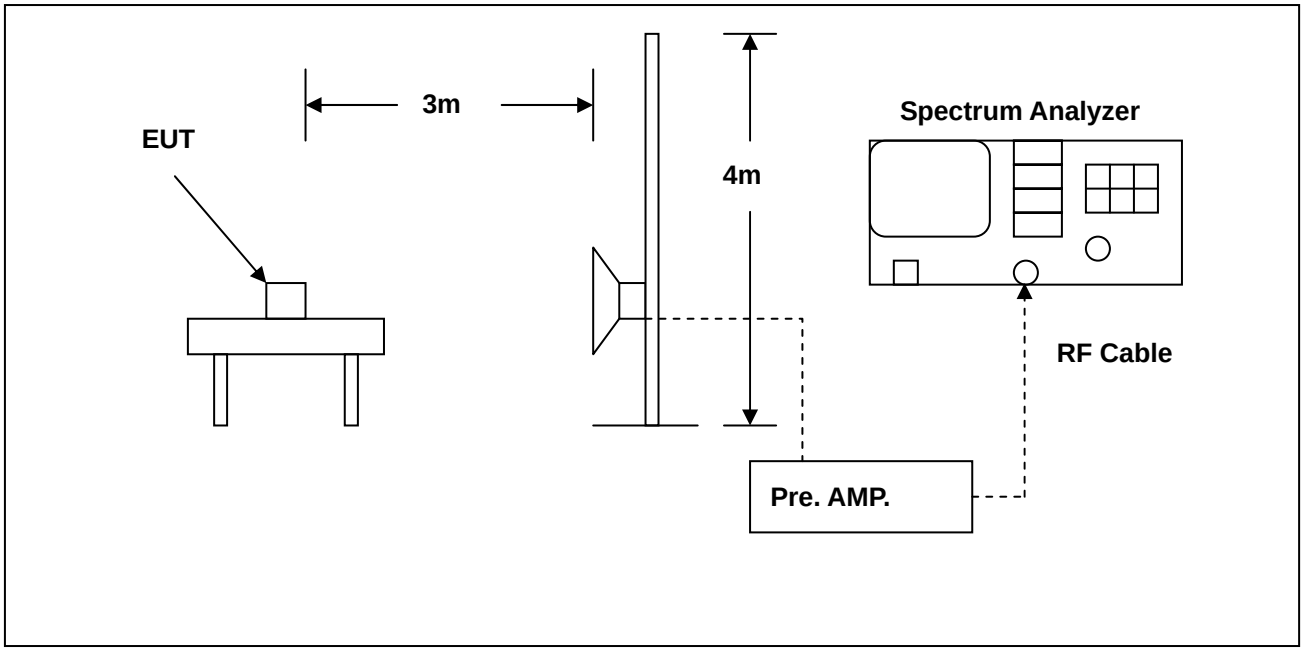
10.1 Test Condition & Setup:

The emissions on the harmonics frequencies, the limits, and the margin of compliance are presented. These tests were made when the transmitter was in full radiated power. The additional test was performed to show compliance with the requirement at the band-edge frequency 2483.5 MHz and up to 2500 MHz and at 2390.0 MHz.

The transmitter was configured with the worst case antenna and setup to transmit at the highest channel. Then the field strength was measured at 2483.5 MHz.

The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel. Then the field strength was measured at 2390.0 MHz. These tests were performed at 4 different bit rates.

10.2 Test Instruments Configuration:



10.3 Test Equipment List:

Describe	Manufacturer	Model	Serial Number	Calibration	
				Cal. Date	Due Date
Spectrum Analyzer	Agilent	E4408B	MY45107753	Jun. 05, 2008	Jun. 05, 2009
Pre Amplifier	Agilent	8449B	3008A02237	Jun. 03, 2008	Jun. 03, 2009
Horn Antenna	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	Jun. 26, 2008	Jun. 26, 2009

10.4 Test Result

10.4.1 Bluetooth 2.0 Mode:

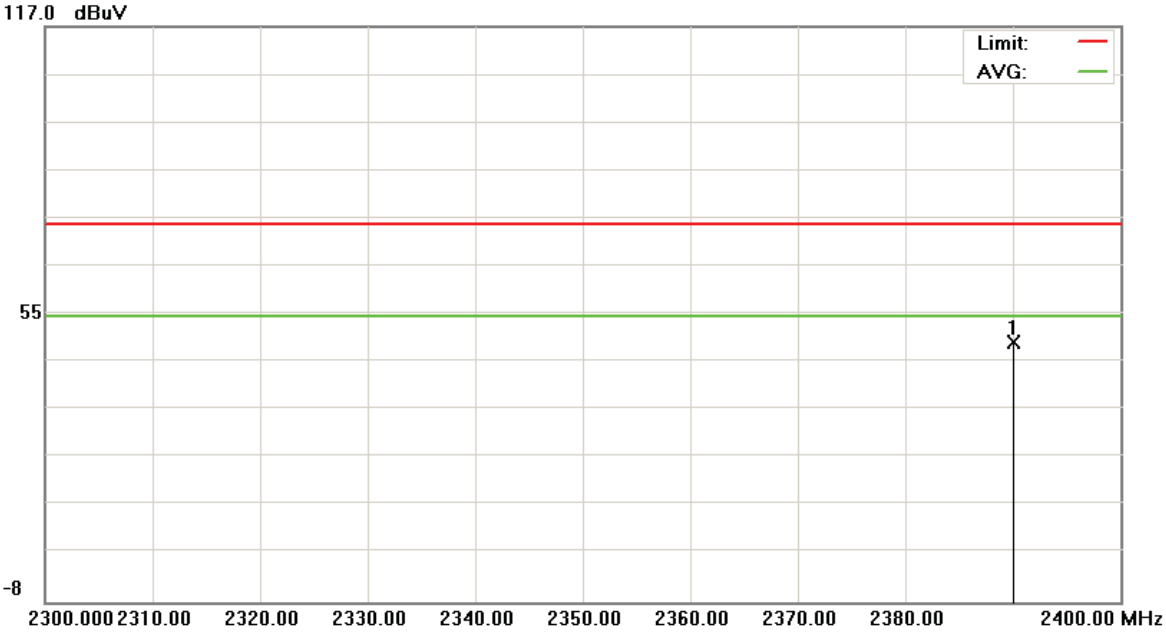
Applicant : Motorola Inc
Model No : H790
EUT : Universal Bluetooth Headset
Test Mode : Bluetooth 2.0 Link Mode _ Low CH & High CH
Test Date : 05/14/2009

Test Graphs See next page.

Notes:

1. Margin= Amplitude - Limits
2. Height of table for EUT placed: 0.8 Meter.
3. ANT= Antenna height.
4. Duty= Duty cycle correction factor.
5. Dis= Distance extrapolation factor.
6. Amplitude= Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
   (Auto calculate in spectrum analyzer)
7. Actual Amp= Amplitude – Duty – Dis.

File :H790(Band edge) Data :#9 Date: 2009/5/14 Time: 上午 10:31:52

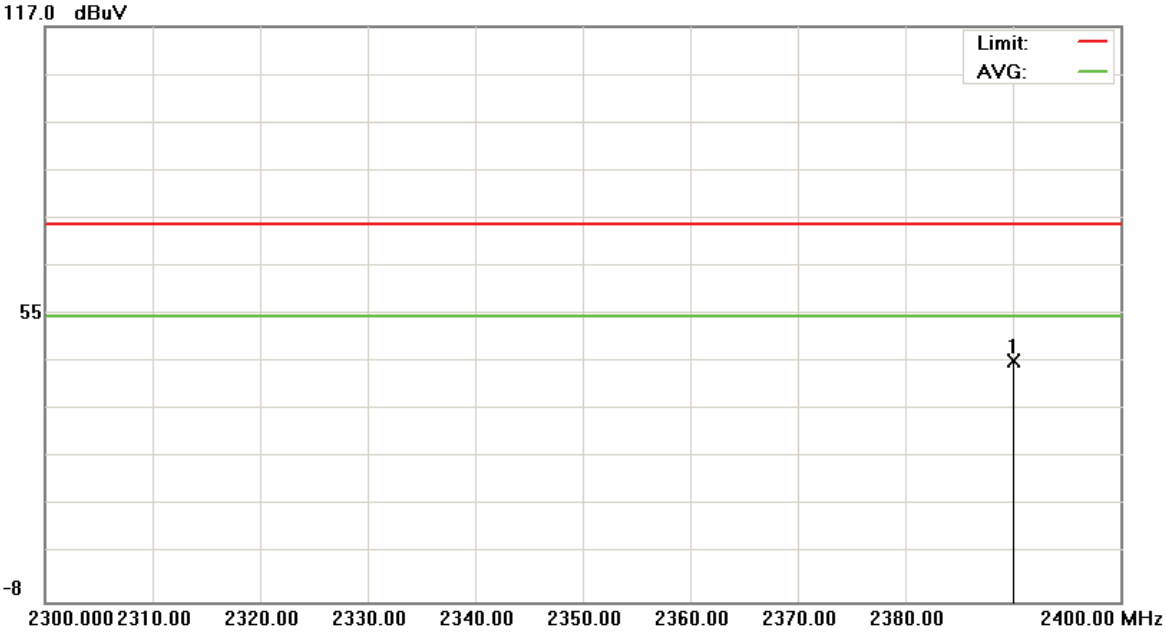


Site: site #1	Polarization: *Vertical*	Temperature: 22 ℃
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT:	Distance: 3m	
M/N: 09-0031-E		
Mode: BT		
Note: (2402MHz)，Antenna 100cm		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1	*	2390.000	48.12	0.19	48.31	74.00	-25.69	peak			

*:Maximum data x:Over limit !:over margin

File :H790(Band edge) Data :#11 Date: 2009/5/14 Time: 上午 10:38:40

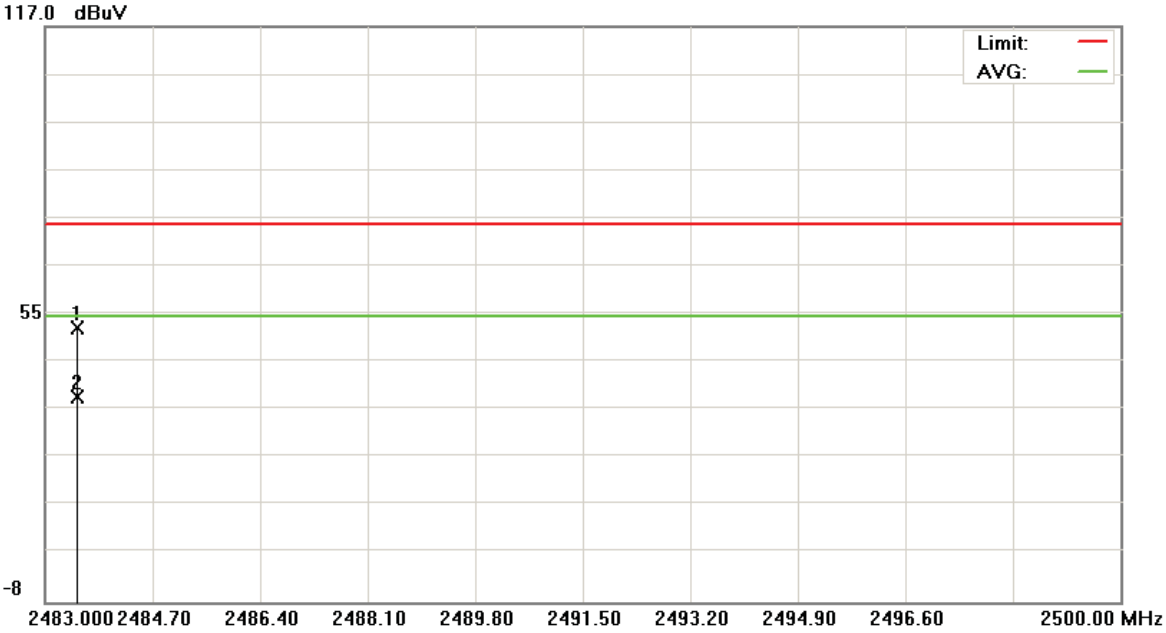


Site: site #1	Polarization: *Horizontal*	Temperature: 22 ℃
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT:	Distance: 3m	
M/N: 09-0031-E		
Mode: BT		
Note: (2402MHz)，Antenna 162cm		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1	*	2390.000	44.13	0.19	44.32	74.00	-29.68	peak			

*:Maximum data x:Over limit !:over margin

File :H790(Band edge) Data :#10 Date: 2009/5/14 Time: 上午 10:53:42



Site: site #1
Limit: FCC part 15 (PK)
EUT:
M/N: 09-0031-E
Mode: BT
Note: (2480MHz)，Antenna 100cm

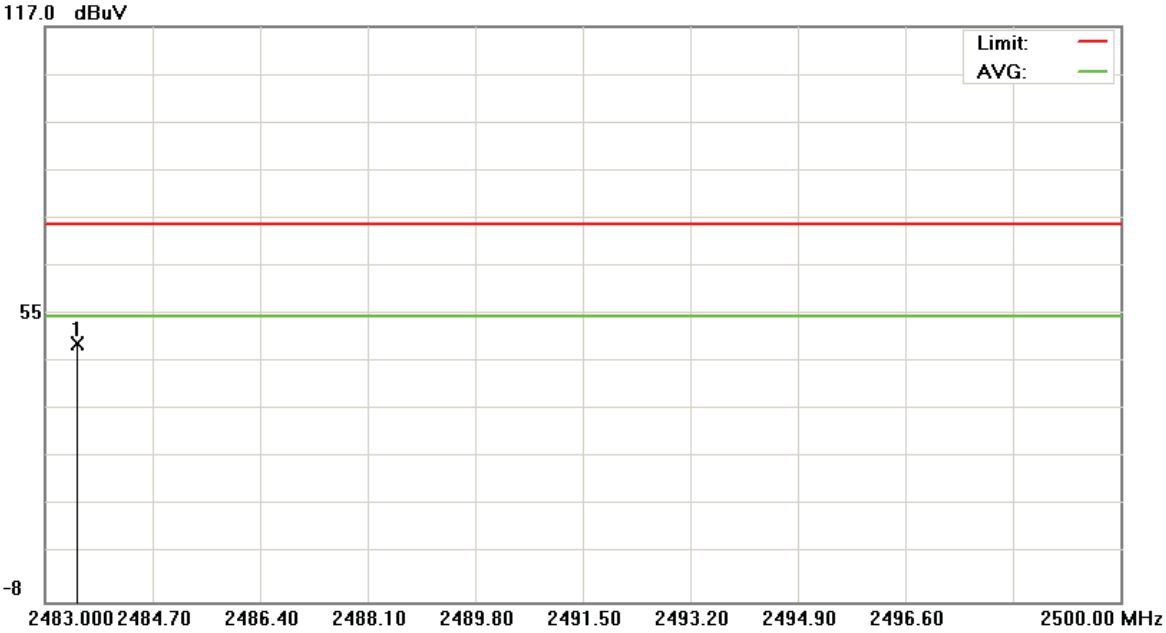
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		2483.500	51.20	0.25	51.45	74.00	-22.55	peak			
2	*	2483.500	36.31	0.25	36.56	54.00	-17.44	AVG			

*:Maximum data x:Over limit !:over margin

File :H790(Band edge) Data :#12 Date: 2009/5/14 Time: 上午 10:47:14



Site: site #1	Polarization: *Horizontal*	Temperature: 22 ℃
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT:	Distance: 3m	
M/N: 09-0031-E		
Mode: BT		
Note: (2480MHz)，Antenna 100cm		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1	*	2483.500	47.89	0.25	48.14	74.00	-25.86	peak			

*:Maximum data x:Over limit !:over margin

10.4.2 Bluetooth EDR Mode:

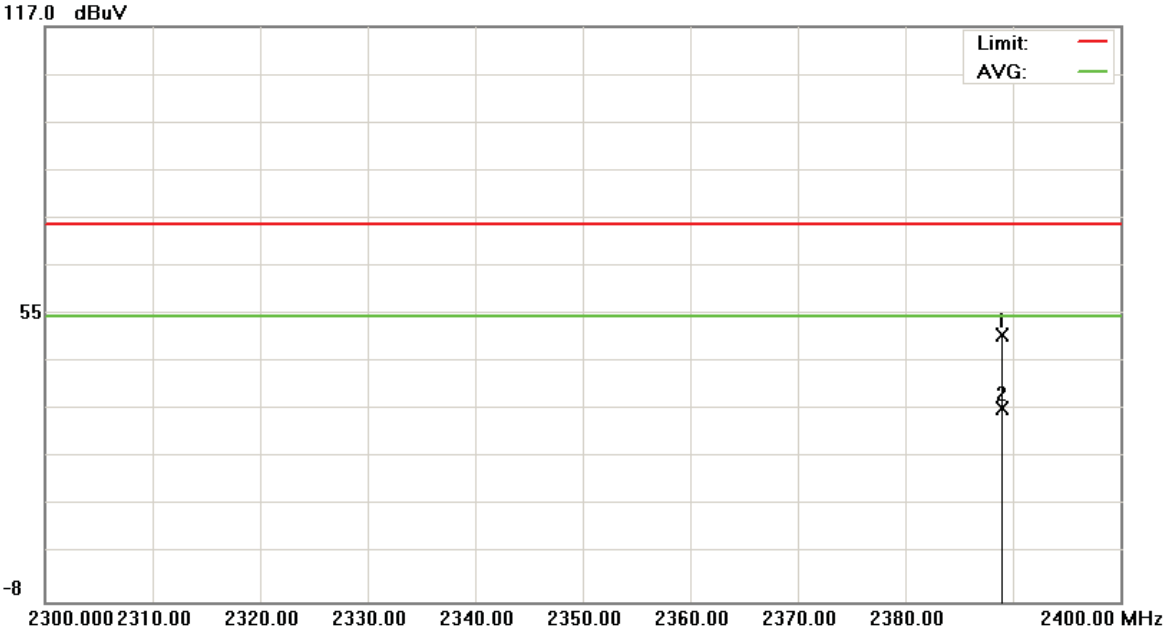
Applicant	: Motorola Inc
Model No	: H790
EUT	: Universal Bluetooth Headset
Test Mode	: Bluetooth EDR Link Mode _ Low CH & High CH
Test Date	: 05/14/2009

Test Graphs See next page.

Notes:

1. Margin= Amplitude - Limits
2. Height of table for EUT placed: 0.8 Meter.
3. ANT= Antenna height.
4. Duty= Duty cycle correction factor.
5. Dis= Distance extrapolation factor.
6. Amplitude= Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
   (Auto calculate in spectrum analyzer)
7. Actual Amp= Amplitude – Duty – Dis.

File :H790(Band edge) Data :#9 Date: 2009/5/14 Time: 上午 11:26:27



Site: site #1
Limit: FCC part 15 (PK)
EUT:
M/N: 09-0031-EO
Mode: BT+EDR(2.0)
Note: (2402MHz)，Antenna 100cm

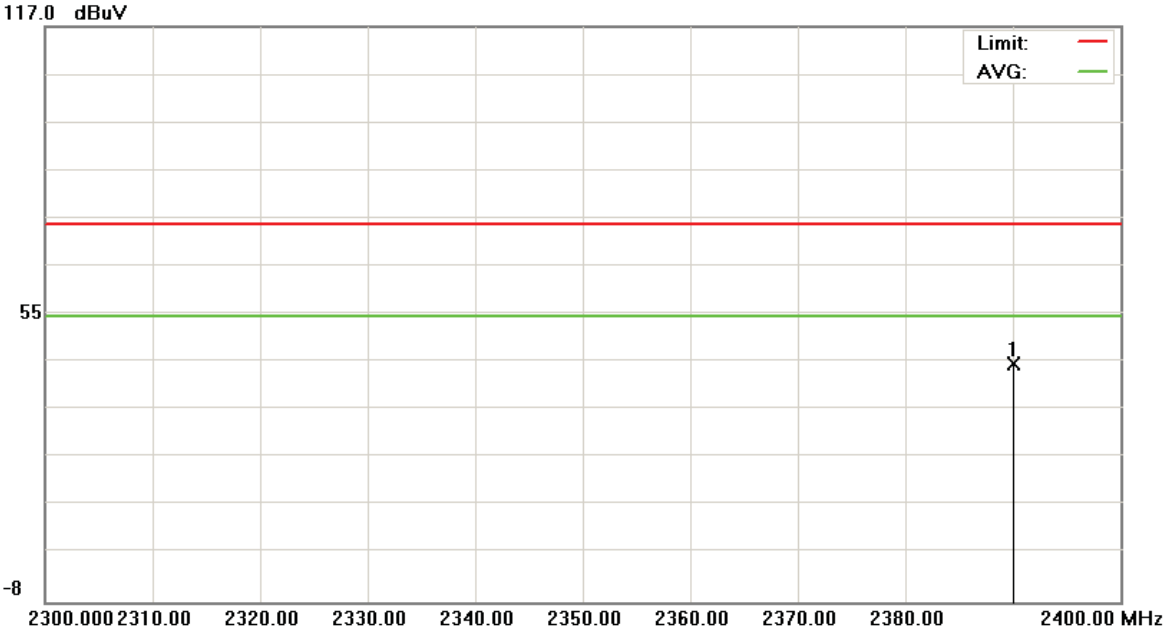
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		2389.000	49.70	0.19	49.89	74.00	-24.11	peak			
2	*	2389.000	33.76	0.19	33.95	54.00	-20.05	AVG			

*:Maximum data x:Over limit !:over margin

File :H790(Band edge) Data :#11 Date: 2009/5/14 Time: 上午 11:22:34



Site: site #1
Limit: FCC part 15 (PK)
EUT:
M/N: 09-0031-EO
Mode: BT+EDR(2.0)
Note: (2402MHz)，Antenna 100cm

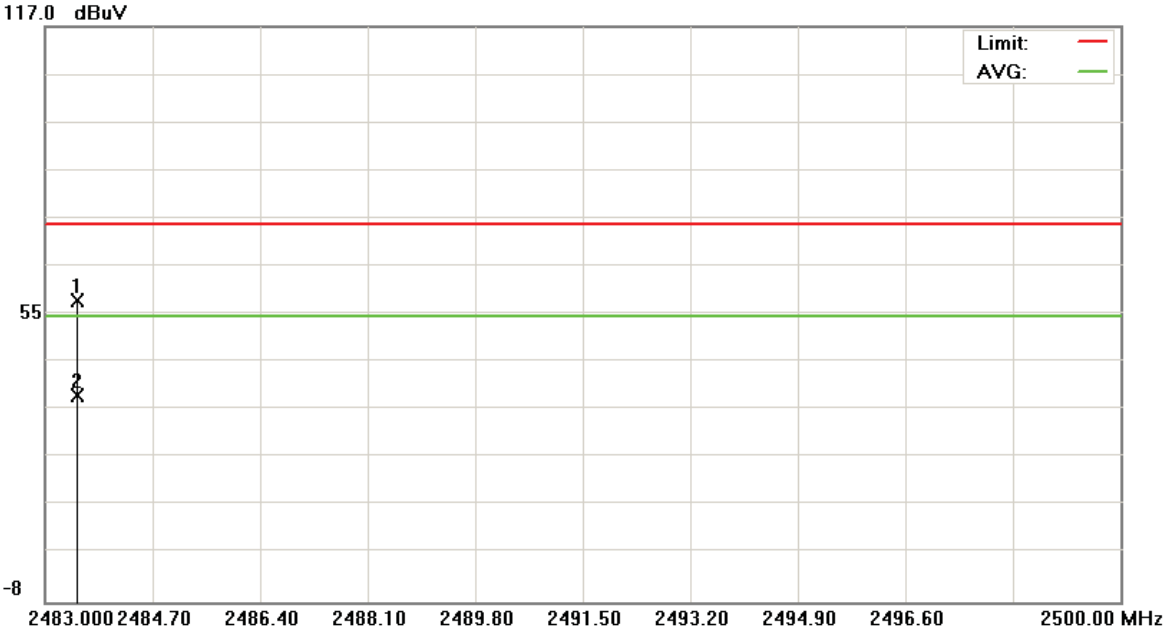
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1	*	2390.000	43.42	0.19	43.61	74.00	-30.39	peak			

*:Maximum data x:Over limit !:over margin

File :H790(Band edge) Data :#10 Date: 2009/5/14 Time: 上午 11:03:39

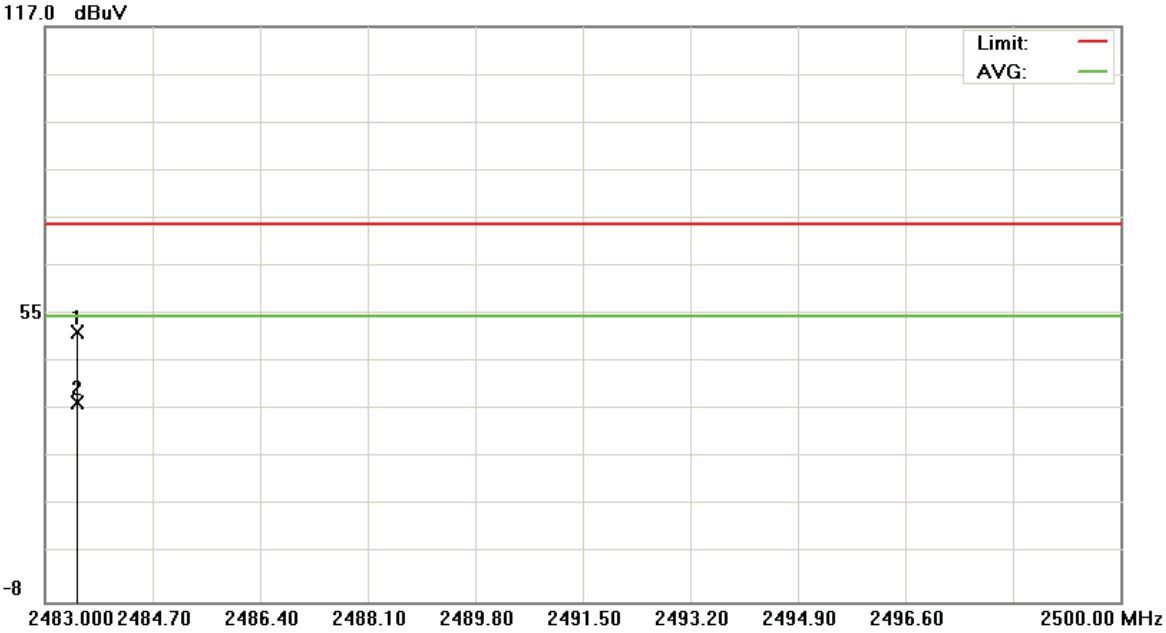


Site: site #1	Polarization: *Vertical*	Temperature: 22 ℃
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT:	Distance: 3m	
M/N: 09-0031-EO		
Mode: BT+EDR(2.0)		
Note: (2480MHz)，Antenna 100cm		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1	*	2483.500	57.09	0.25	57.34	74.00	-16.66	peak			
2		2483.500	36.50	0.25	36.75	54.00	-17.25	AVG			

*:Maximum data x:Over limit !:over margin

File :H790(Band edge) Data :#12 Date: 2009/5/14 Time: 上午 11:12:50



Site: site #1
Limit: FCC part 15 (PK)
EUT:
M/N: 09-0031-EO
Mode: BT+EDR(2.0)
Note: (2480MHz)，Antenna 100cm

Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		2483.500	50.45	0.25	50.70	74.00	-23.30	peak			
2	*	2483.500	34.95	0.25	35.20	54.00	-18.80	AVG			

*:Maximum data x:Over limit !:over margin

11. Antenna Requirements

11.1 Standard Applicable:

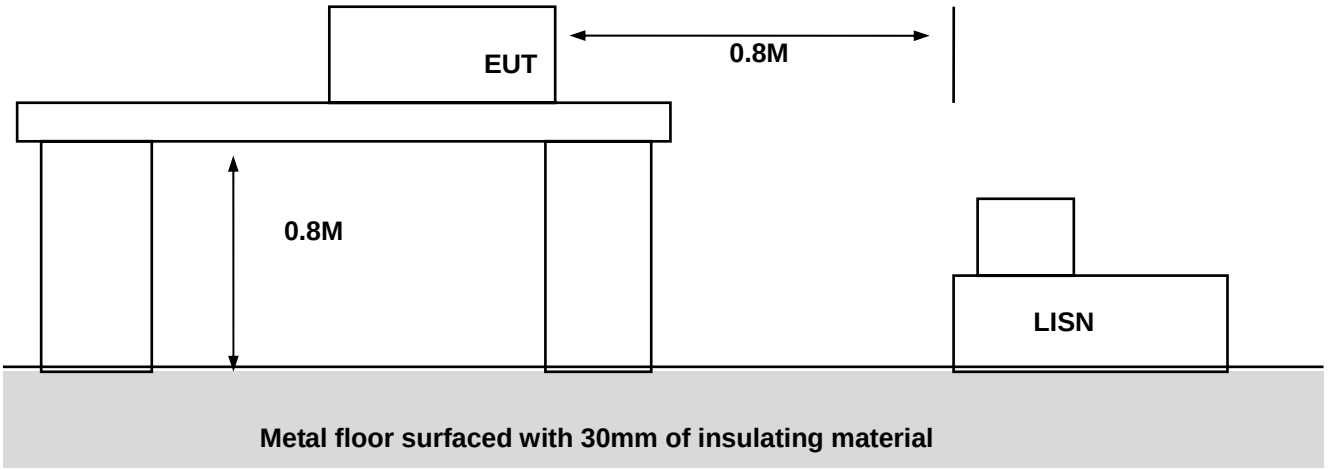
For intentional device, according to 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.
And According to 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2 Antenna Connector Construction

The antenna used in this product is internal antenna. And the maximum Gain of this antenna is only **1.07**dBi.

Appendix A - EUT Test SETUP

MEASUREMENT OF POWER LINE CONDUCTED RFI VOLTAGE



MEASUREMENT OF RADIATED EMISSION