



A Test Lab Techno Corp.

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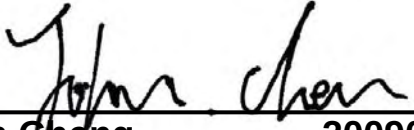
Part 15 C Measurement Report



Report No.	: 0906FR11
Applicant	: Partner Tech Corp.
Product Type	: E-Menu
Trade Mark	: Partner
Model No	: EM-100
FCC ID	: NDPEM100
Dates of Test	: Jun. 02 ~ Jun. 05, 2009
Test Specification	: Part 15 Subpart C (15.247) PUBLIC NOTICE :DA 00-705 Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems
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.
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4. This document may be altered or revised by A Test Lab Techno. Corp. personnel only, and shall be noted in the revision section of the document.


Kevin Wang 20090610
Approve Signer


John Cheng 20090610
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.

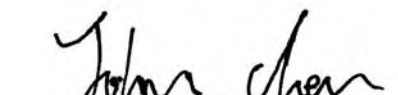
We further submit that the energy emitted by the sample EUT tested as described in the report is in compliance with Class B radiated and conducted emission limit of FCC Rules Part 15 Subpart C (15.247).

EUT : E-Menu
Applicant : Partner Tech Corp.
10F, No 233-2, Pao Chiao Rd., Shin Tien, Taipei, Taiwan231
Trade Mark : Partner
Model No : EM-100
FCC ID : NDPEM100

Approved by :


Kevin Wang 2009/06/10

Prepared by :


John Cheng 2009/06/10

A Test Lab Techno Corp.

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1. GENERAL

1.1 Description of Equipment under Test (EUT)

Applicant :

Partner Tech Corp.

10F, No 233-2, Pao Chiao Rd., Shin Tien, Taipei, Taiwan231

Manufacturer : Partner Tech Corp.
Manufacturer Address : 10F, No 233-2, Pao Chiao Rd., Shin Tien, Taipei, Taiwan231
Trade Mark : Partner
Product Model : EM-100
Product Type : E-Menu
FCC ID : NDPEM100
Frequency of Channel : See Table 1
Type of Modulation : Frequency Hopping Spread Spectrum
Output Power : -5.381 dBm
Type of Antenna : Fixed Antenna
Antenna Gain : 3.49 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 **Partner Tech Corp.**.. 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 Summary of Tests

47 CFR Part 15 Subpart C			
Reference	Test	Results	Note
15.107	AC Power Conducted Emission	PASS	
15.247(c)	Transmitter Radiated Emissions	PASS	
15.247(b)	Max. Output Power	PASS	
15.247(a)(1)	20dB RF Bandwidth	PASS	
15.247(a)(1)(ii)	Carrier Frequency Separation	PASS	
15.247(a)(1)(i)	Number of Hopping	PASS	
15.247(a)(1)(i)	Time of Occupancy (Dwell Time)	PASS	
15.247(c)	Out of Band Conducted Spurious Emission	PASS	
15.247(c)	Band Edge Measurement	PASS	
15.203	Antenna Requirement	PASS	

1.4 Description of Support Equipment

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

1.5 Configuration of System under Test

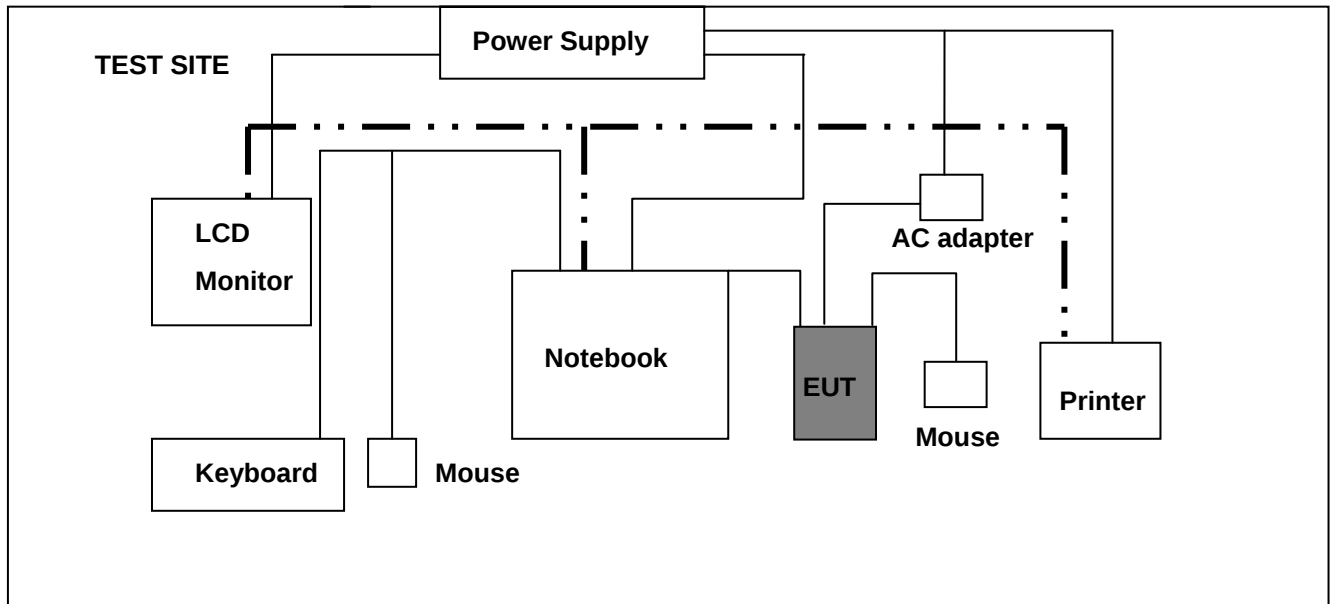


Figure 1. Configuration of System Under Test

During testing (Link Mode) the EUT's USB port connected to the mouse and EUT's USB port connected to the Notebook, The EUT's power port connected to the AC adapter. A mouse was connected to the USB port of Notebook. And a keyboard & printer were connected to the USB ports of Notebook. An external LCD monitor connected the VGA port on AE' Notebook.

1.6 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."



1.7 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. 10, 2009	Mar. 10, 2010
Test Receiver	R&S	ESCI	100367	Jun. 05, 2008	Jun. 05, 2009
LISN	EMCO	3816/2 SH	00060110	Jun. 04, 2008	Jun. 04, 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 Configuration:



Figure 2. Front View of the Test Configuration



Figure 3. Rear View of the Test Configuration



2.4 Test condition:

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

2.5 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

2.6 Measurement Data of Conducted Emissions:

2.6.1 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 : Partner Tech Corp.
Model No : EM-100
EUT : E-Menu
Test Mode : Link Mode
Test Date : 06/02/2009

Please refer to next page 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.



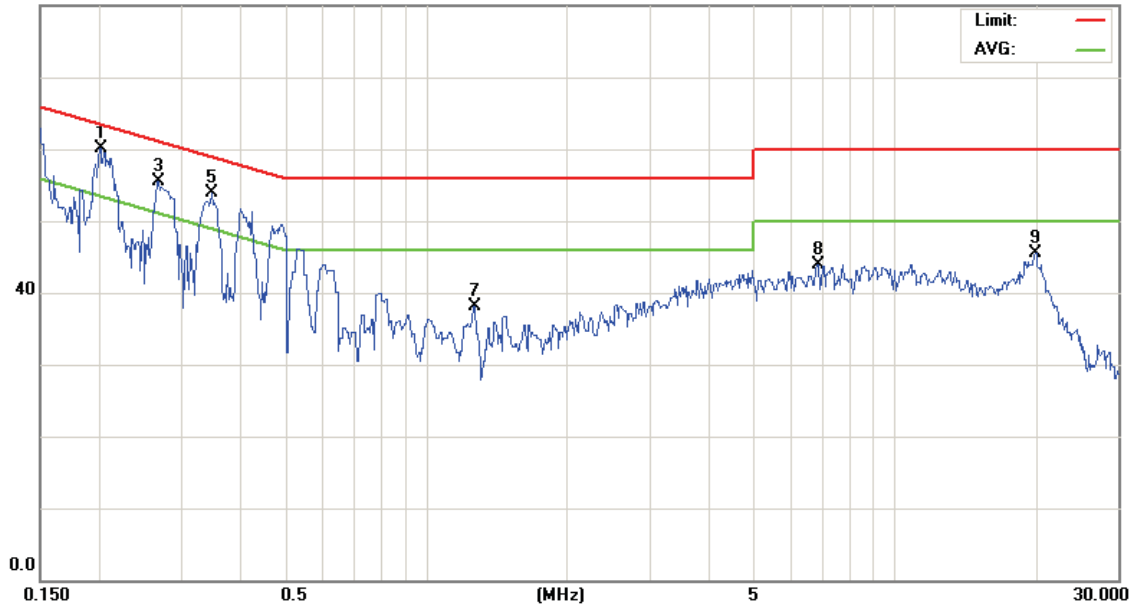
File :EM-100

Data :#1

Date: 2009/06/02

Time: 下午 07:26:37

80.0 dBuV



Site

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 55 %

EUT:

M/N: 09-0106-SEO

Mode:

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.2011	50.39	9.74	60.13	63.56	-3.43	peak	
2		0.2011	29.16	9.74	38.90	53.56	-14.66	AVG	
3		0.2676	45.67	9.76	55.43	61.19	-5.76	peak	
4		0.2676	31.54	9.76	41.30	51.19	-9.89	AVG	
5		0.3481	44.13	9.78	53.91	59.01	-5.10	peak	
6		0.3481	28.62	9.78	38.40	49.01	-10.61	AVG	
7		1.2650	28.36	9.81	38.17	56.00	-17.83	peak	
8		6.8500	33.76	10.09	43.85	60.00	-16.15	peak	
9		19.9500	35.27	10.23	45.50	60.00	-14.50	peak	

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

●Reference Only

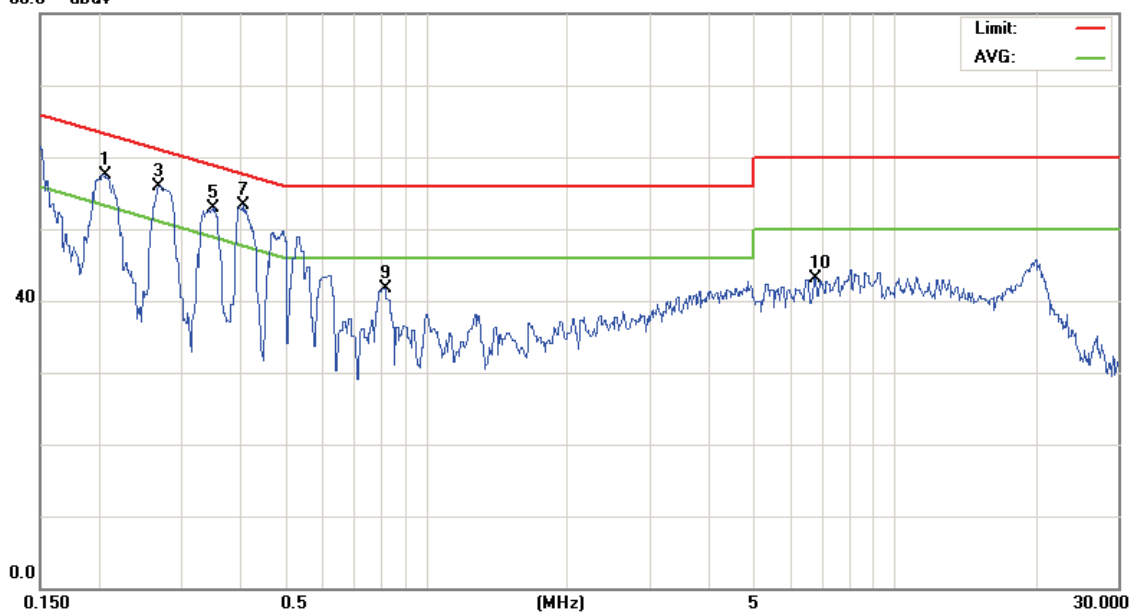


File :EM-100
80.0 dBuV

Data :#2

Date: 2009/06/02

Time: 下午 07:31:13



Site

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 55 %

EUT:

M/N: 09-0106-SEO

Mode:

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2060	47.84	9.74	57.58	63.36	-5.78	peak	
2		0.2060	29.06	9.74	38.80	53.36	-14.56	AVG	
3		0.2683	46.21	9.76	55.97	61.17	-5.20	peak	
4		0.2683	31.94	9.76	41.70	51.17	-9.47	AVG	
5		0.3502	43.17	9.78	52.95	58.96	-6.01	peak	
6		0.3502	29.12	9.78	38.90	48.96	-10.06	AVG	
7	*	0.4069	43.45	9.78	53.23	57.71	-4.48	peak	
8		0.4069	28.72	9.78	38.50	47.71	-9.21	AVG	
9		0.8150	31.83	9.80	41.63	56.00	-14.37	peak	
10		6.7500	33.04	10.10	43.14	60.00	-16.86	peak	

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

●Reference Only



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 three 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 (model 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 per meter (uV/m).

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

The actual field intensity in decibels 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.

$$(1) \text{ Amplitude (dBuV/m) = FI (dBuV) + AF (dBuV) + CL (dBuV) - Gain (dB)}$$

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

$$(2) \text{ Actual Amplitude (dBuV/m) = Amplitude (dBuV) - Dis(dB)}$$

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. 08, 2009	Jun. 08, 2010
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. 23, 2008	Jun. 23, 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 Configuration:



Figure 4. Front View of the Test Configuration

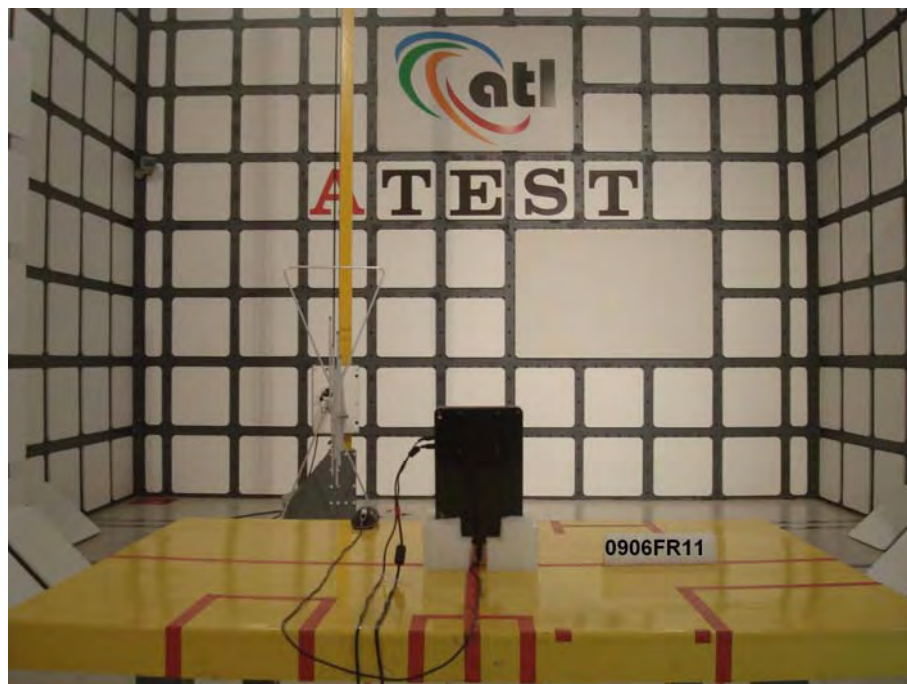


Figure 5. Rear View of the Test Configuration



Figure 6. Front View of the Test Configuration



Figure 7. Rear View of the Test Configuration



3.4 Test condition:

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

3.5 Radiated Emissions Limits:

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



3.6 Measurement Data of Radiated Emissions:

3.6.1 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 : Partner Tech Corp.
Model No : EM-100
EUT : E-Menu
Test Mode : Link Mode _ Bluetooth 2.0 Low CH / Middle CH / Light CH
Test Date : 06/04/2009~06/05/2009

Please refer to next page 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



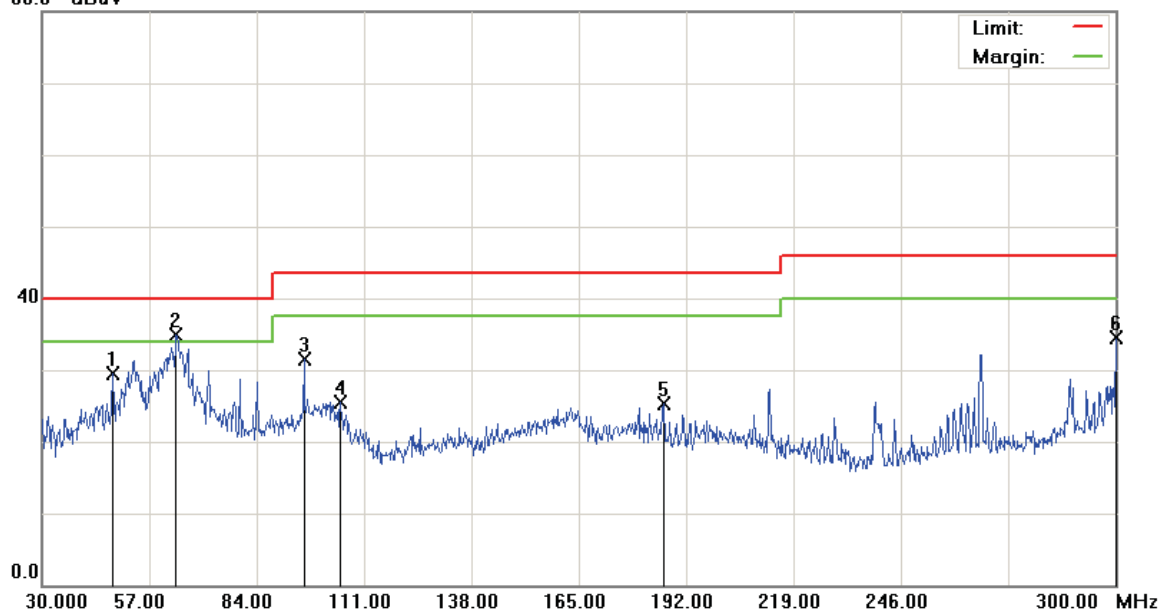
File :EM-100(BT)

Data :#1

Date: 2009/6/4

Time: 下午 03:48:19

80.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT

Note: 2402MHz, EUT置中, NB03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		47.8200	41.43	-12.02	29.41	40.00	-10.59	peak		
2	*	63.7500	48.85	-13.89	34.96	40.00	-5.04	peak		
3		95.8800	43.51	-11.99	31.52	43.50	-11.98	peak		
4		105.0600	37.69	-12.09	25.60	43.50	-17.90	peak		
5		186.3300	39.05	-13.69	25.36	43.50	-18.14	peak		
6		300.0000	44.43	-9.98	34.45	46.00	-11.55	peak		

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

●Reference Only



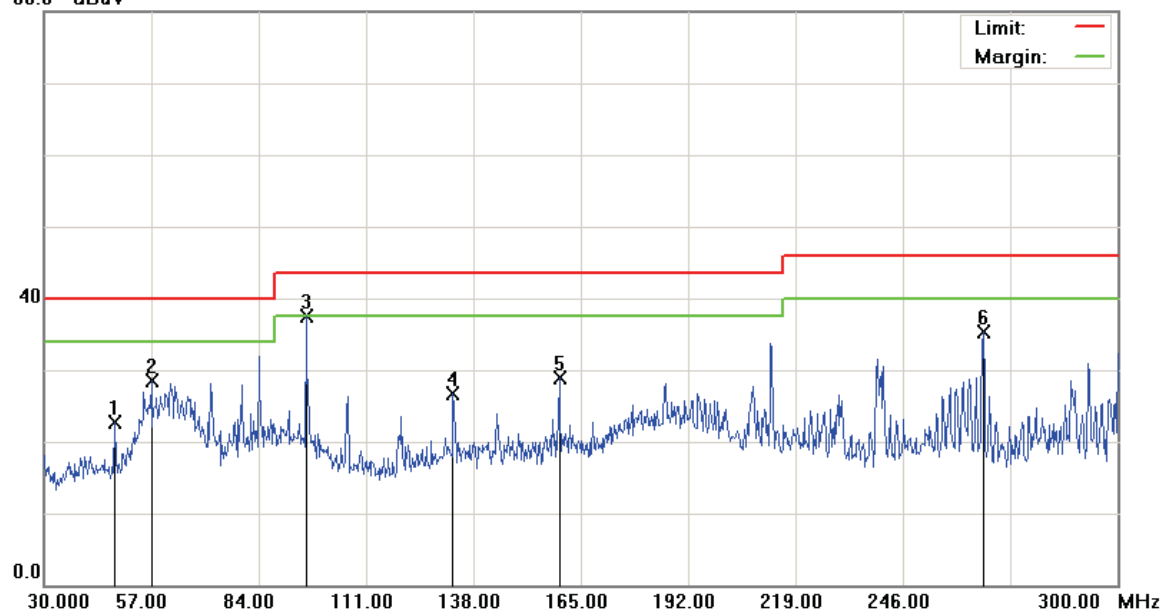
File :EM-100(BT)

Data :#3

Date: 2009/6/4

Time: 下午 03:56:45

80.0 dBuV



Site site#1

Polarization: *Horizontal*

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT

Note: 2402MHz , EUT置中 , NB03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		47.8200	34.81	-12.02	22.79	40.00	-17.21	peak		
2		57.0000	40.89	-12.34	28.55	40.00	-11.45	peak		
3	*	95.8800	49.58	-11.99	37.59	43.50	-5.91	peak		
4		132.8700	42.55	-15.83	26.72	43.50	-16.78	peak		
5		159.6000	44.40	-15.53	28.87	43.50	-14.63	peak		
6		266.2500	46.27	-11.01	35.26	46.00	-10.74	peak		

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

●Reference Only



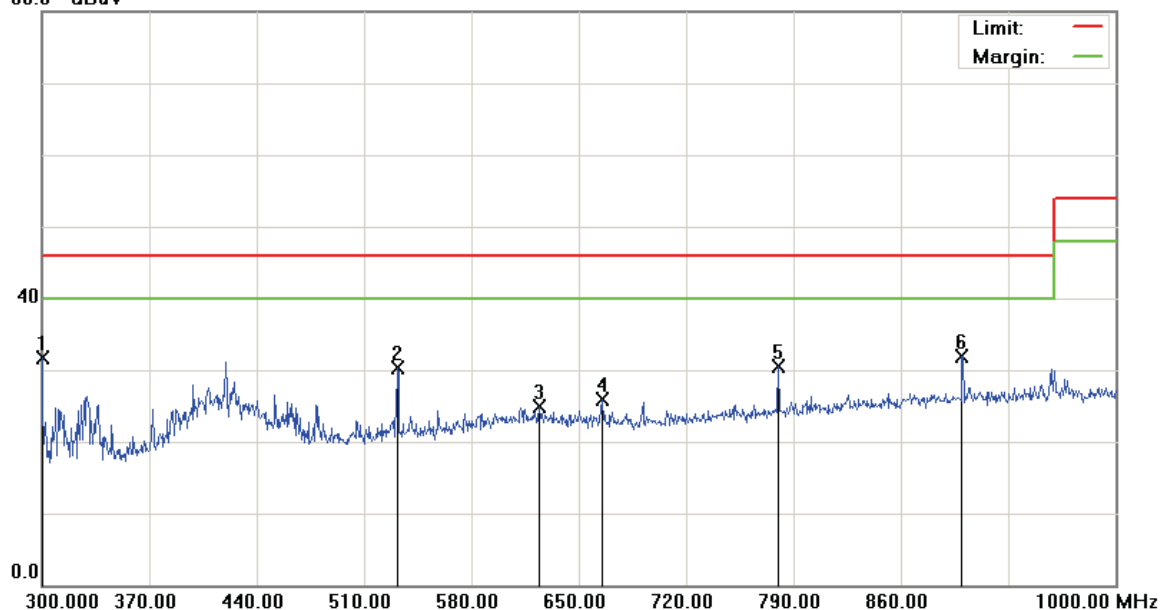
File :EM-100(BT)

Data :#2

Date: 2009/6/4

Time: 下午 03:52:32

80.0 dBuV



Site site#1

Polarization: *Vertical*

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT

Note: 2402MHz, EUT置中, NB03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		300.0000	41.70	-9.98	31.72	46.00	-14.28	peak		
2		531.7000	36.60	-6.32	30.28	46.00	-15.72	peak		
3		624.1000	29.50	-4.60	24.90	46.00	-21.10	peak		
4		665.4000	30.34	-4.45	25.89	46.00	-20.11	peak		
5		780.2000	32.78	-2.36	30.42	46.00	-15.58	peak		
6	*	899.9000	32.26	-0.37	31.89	46.00	-14.11	peak		

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

●Reference Only



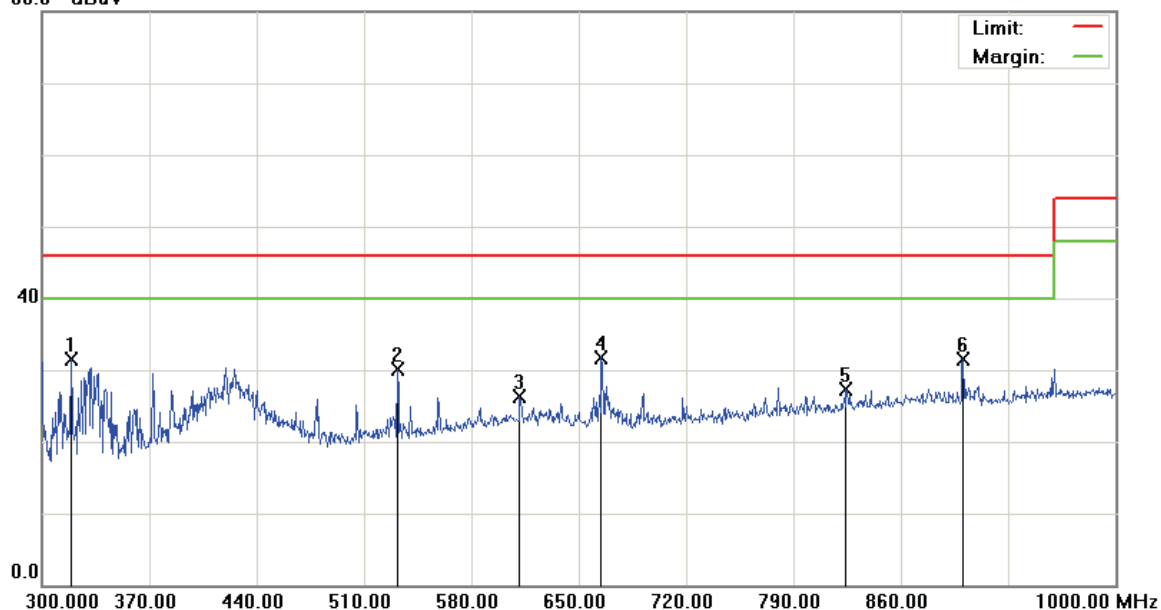
File :EM-100(BT)

Data :#4

Date: 2009/6/4

Time: 下午 04:00:59

80.0 dBuV



Site site#1

Polarization: *Horizontal*

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT

Note: 2402MHz, EUT置中, NB03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		318.9000	41.39	-9.80	31.59	46.00	-14.41	peak		
2		531.7000	36.41	-6.32	30.09	46.00	-15.91	peak		
3		611.5000	30.76	-4.55	26.21	46.00	-19.79	peak		
4	*	664.7000	36.26	-4.46	31.80	46.00	-14.20	peak		
5		824.3000	28.75	-1.48	27.27	46.00	-18.73	peak		
6		900.6000	31.93	-0.36	31.57	46.00	-14.43	peak		

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

●Reference Only



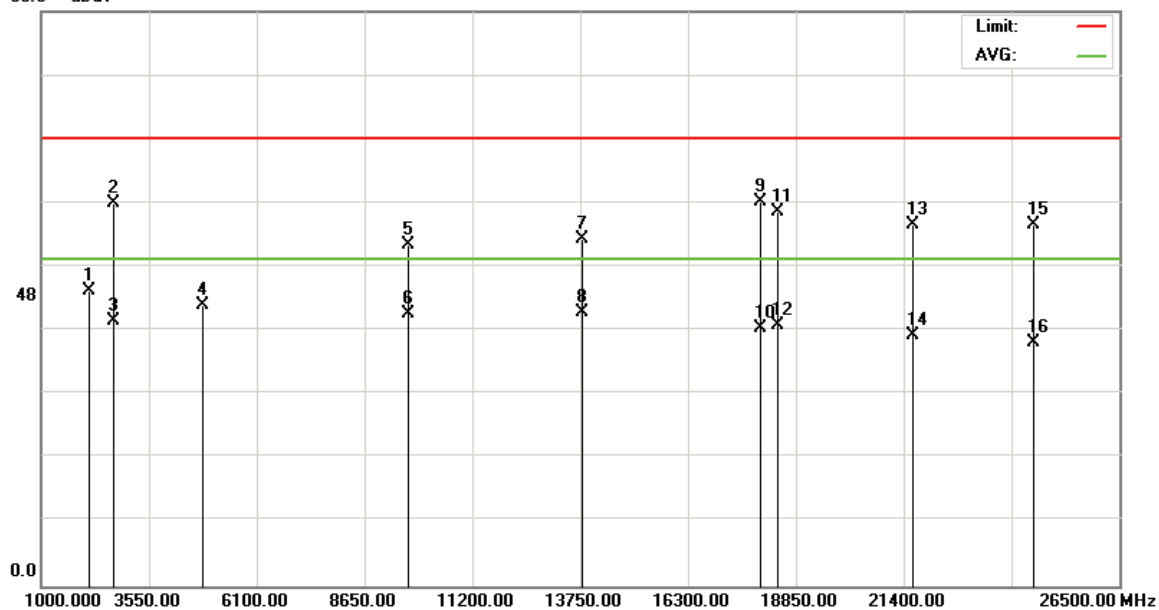
File:EM-100(2402MHz)

Data :#14

Date: 2009/6/5

Time: 上午 01:41:13

95.0 dBuV



Site

Polarization: *Vertical*

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT

Note: 2402MHz , Antenna100 , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2125.400	49.02	-0.28	48.74	74.00	-25.26	peak		
2		2700.000	40.77	22.58	63.35	74.00	-10.65	peak		
3		2700.000	21.19	22.58	43.77	54.00	-10.23	AVG		
4		4804.000	39.01	7.32	46.33	74.00	-27.67	peak		
5		9689.750	38.97	17.35	56.32	74.00	-17.68	peak		
6		9689.750	27.70	17.35	45.05	54.00	-8.95	AVG		
7		13780.00	39.28	17.99	57.27	74.00	-16.73	peak		
8	*	13780.00	27.35	17.99	45.34	54.00	-8.66	AVG		
9		18000.00	37.90	25.57	63.47	74.00	-10.53	peak		
10		18000.00	17.11	25.57	42.68	54.00	-11.32	AVG		
11		18403.75	38.83	23.15	61.98	74.00	-12.02	peak		
12		18403.75	20.00	23.15	43.15	54.00	-10.85	AVG		
13		21612.50	38.49	21.28	59.77	74.00	-14.23	peak		

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

●Reference Only



Site	Polarization: Vertical	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT:	Distance:	
M/N: 09-0106-CEO		
Mode: BT		
Note: 2402MHz , Antenna100 , NB01		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14		21612.50	20.28	21.28	41.56	54.00	-12.44	AVG		
15		24438.75	40.12	19.69	59.81	74.00	-14.19	peak		
16		24438.75	20.65	19.69	40.34	54.00	-13.66	AVG		

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

●Reference Only



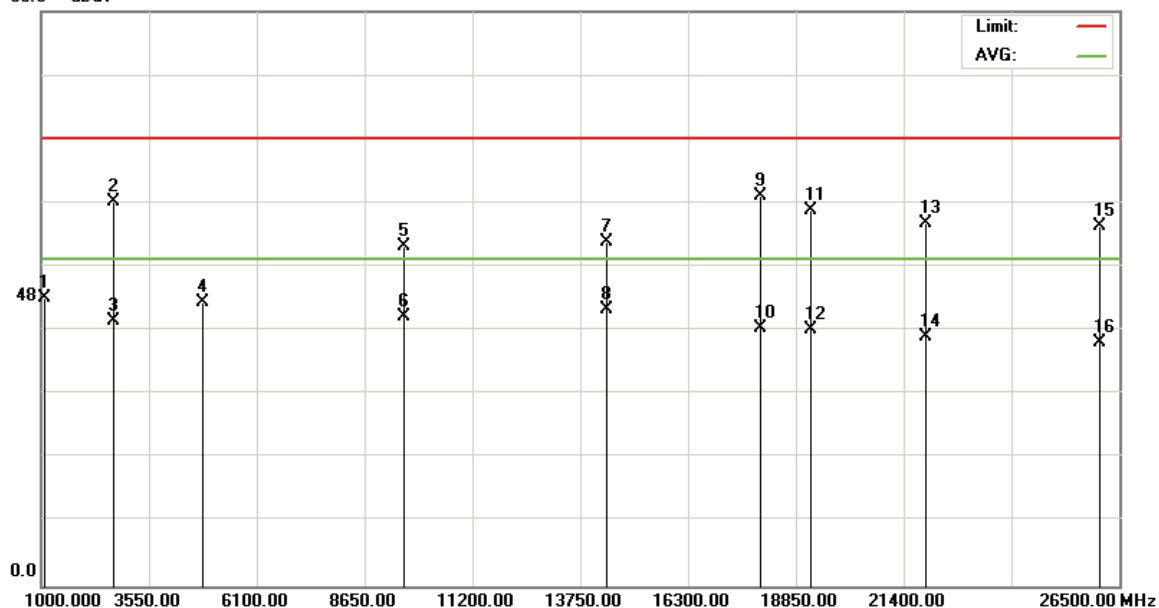
File:EM-100(2402MHz)_tmp

Data :#5

Date: 2009/6/5

Time: 上午 01:44:53

95.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT

Note: 2402MHz , Antenna100 , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		1061.200	53.80	-6.13	47.67	74.00	-26.33	peak		
2		2700.000	40.87	22.58	63.45	74.00	-10.55	peak		
3		2700.000	21.25	22.58	43.83	54.00	-10.17	AVG		
4		4804.000	39.60	7.32	46.92	74.00	-27.08	peak		
5		9543.750	39.05	17.10	56.15	74.00	-17.85	peak		
6		9543.750	27.54	17.10	44.64	54.00	-9.36	AVG		
7		14380.00	29.27	27.71	56.98	74.00	-17.02	peak		
8	*	14380.00	17.95	27.71	45.66	54.00	-8.34	AVG		
9		18000.00	29.37	35.11	64.48	74.00	-9.52	peak		
10		18000.00	7.62	35.11	42.73	54.00	-11.27	AVG		
11		19190.00	39.10	22.94	62.04	74.00	-11.96	peak		
12		19190.00	19.57	22.94	42.51	54.00	-11.49	AVG		
13		21931.25	38.89	21.15	60.04	74.00	-13.96	peak		

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

●Reference Only



Site	Polarization: Horizontal	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT:	Distance:	
M/N: 09-0106-CEO		
Mode: BT		
Note: 2402MHz , Antenna100 , NB01		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14		21931.25	19.99	21.15	41.14	54.00	-12.86	AVG		
15		26032.50	40.92	18.54	59.46	74.00	-14.54	peak		
16		26032.50	21.64	18.54	40.18	54.00	-13.82	AVG		

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

●Reference Only



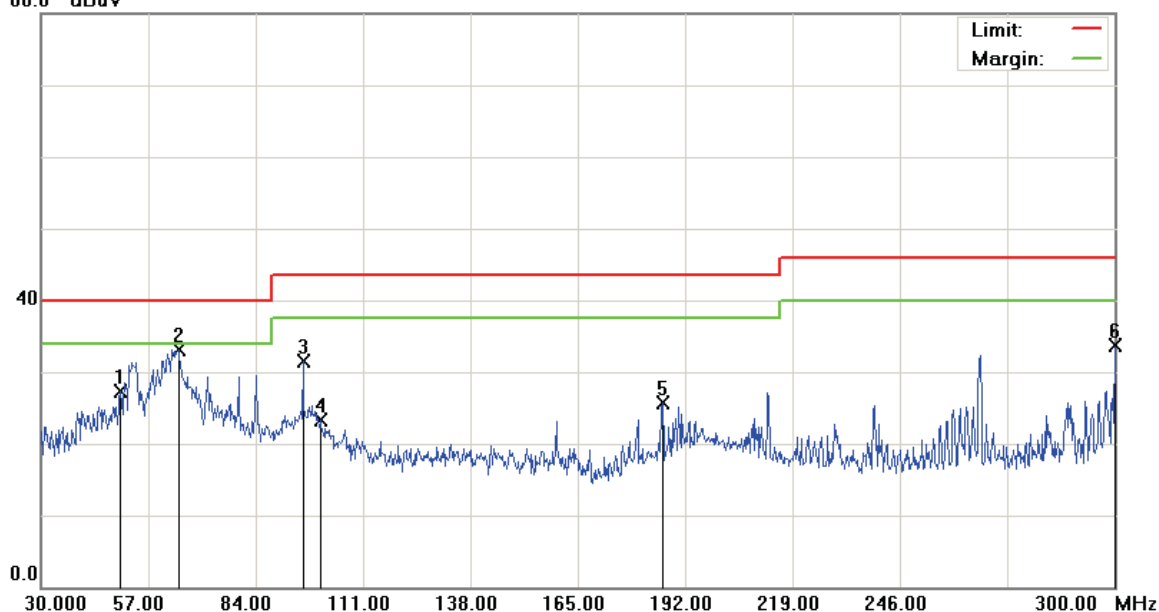
File :EM-100(BT)

Data :#5

Date: 2009/6/4

Time: 下午 04:14:41

80.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT

Note: 2441MHz, EUT置中, NB03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		49.9800	39.37	-12.16	27.21	40.00	-12.79	peak		
2	*	64.5600	47.27	-14.19	33.08	40.00	-6.92	peak		
3		95.8800	43.55	-11.99	31.56	43.50	-11.94	peak		
4		100.2000	35.04	-11.77	23.27	43.50	-20.23	peak		
5		186.3300	39.43	-13.69	25.74	43.50	-17.76	peak		
6		300.0000	43.68	-9.98	33.70	46.00	-12.30	peak		

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

●Reference Only



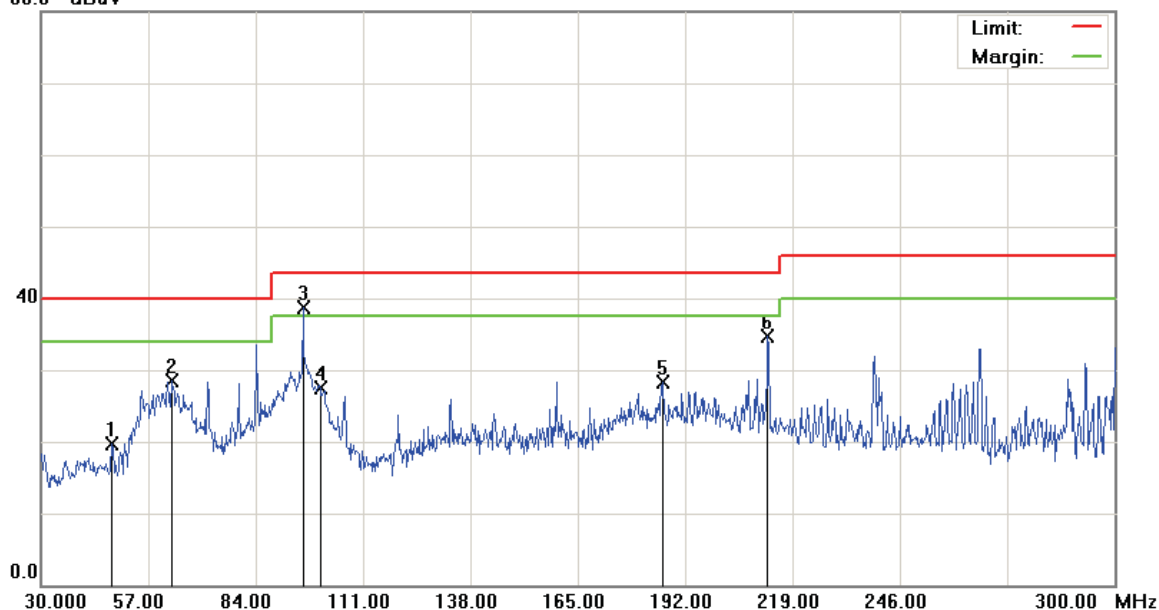
File :EM-100(BT)

Data :#7

Date: 2009/6/4

Time: 下午 04:23:07

80.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT

Note: 2441MHz, EUT置中, NB03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		47.8200	31.78	-12.02	19.76	40.00	-20.24	peak		
2		62.9400	42.16	-13.60	28.56	40.00	-11.44	peak		
3	*	95.8800	50.62	-11.99	38.63	43.50	-4.87	peak		
4		100.2000	39.33	-11.77	27.56	43.50	-15.94	peak		
5		186.3300	42.05	-13.69	28.36	43.50	-15.14	peak		
6		212.7900	47.35	-12.74	34.61	43.50	-8.89	peak		

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

●Reference Only



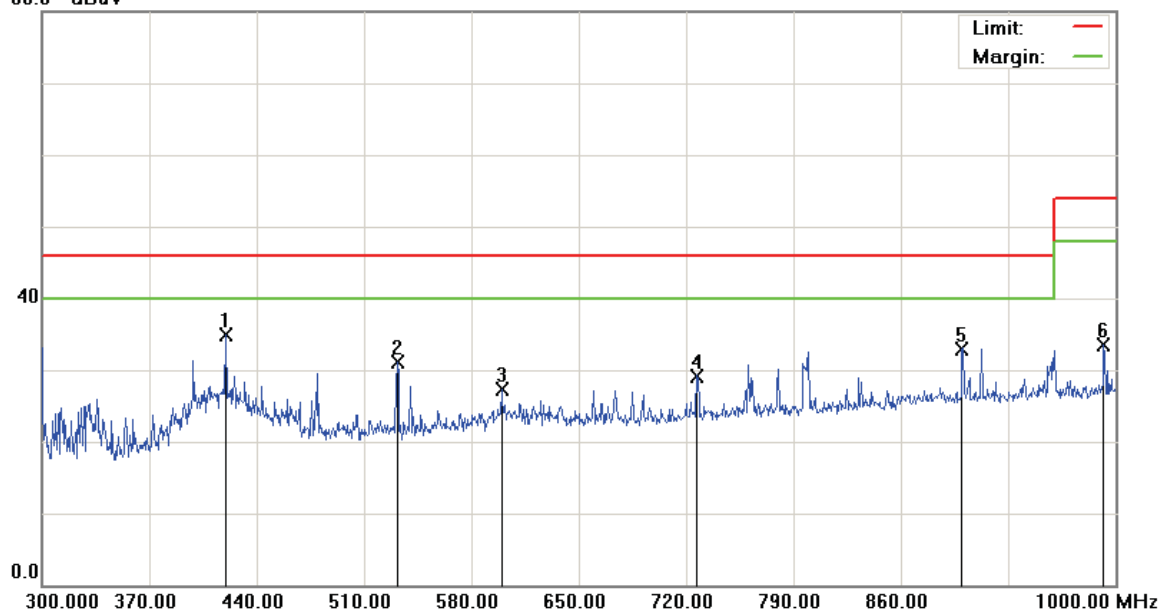
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Data :#6

Date: 2009/6/4

Time: 下午 04:18:54

80.0 dBuV



Site site#1

Polarization: *Vertical*

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT

Note: 2441MHz , EUT置中 , NB03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1	*	419.7000	43.03	-8.10	34.93	46.00	-11.07	peak		
2		531.7000	37.47	-6.32	31.15	46.00	-14.85	peak		
3		599.6000	32.21	-4.91	27.30	46.00	-18.70	peak		
4		727.0000	32.74	-3.54	29.20	46.00	-16.80	peak		
5		899.9000	33.34	-0.37	32.97	46.00	-13.03	peak		
6		992.3000	32.62	0.86	33.48	54.00	-20.52	peak		

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

●Reference Only



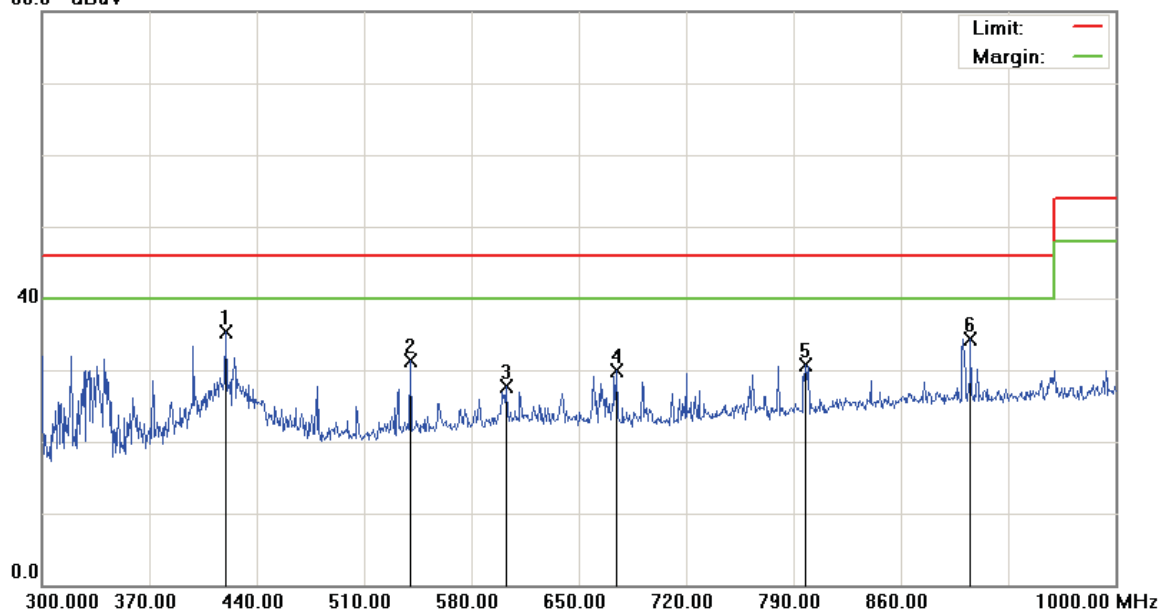
File :EM-100(BT)

Data :#8

Date: 2009/6/4

Time: 下午 04:27:21

80.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT

Note: 2441MHz, EUT置中, NB03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1	*	419.7000	43.49	-8.10	35.39	46.00	-10.61	peak		
2		540.1000	37.27	-6.03	31.24	46.00	-14.76	peak		
3		602.4000	32.48	-4.75	27.73	46.00	-18.27	peak		
4		674.5000	34.17	-4.28	29.89	46.00	-16.11	peak		
5		797.7000	33.03	-2.34	30.69	46.00	-15.31	peak		
6		905.5000	34.60	-0.22	34.38	46.00	-11.62	peak		

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

●Reference Only



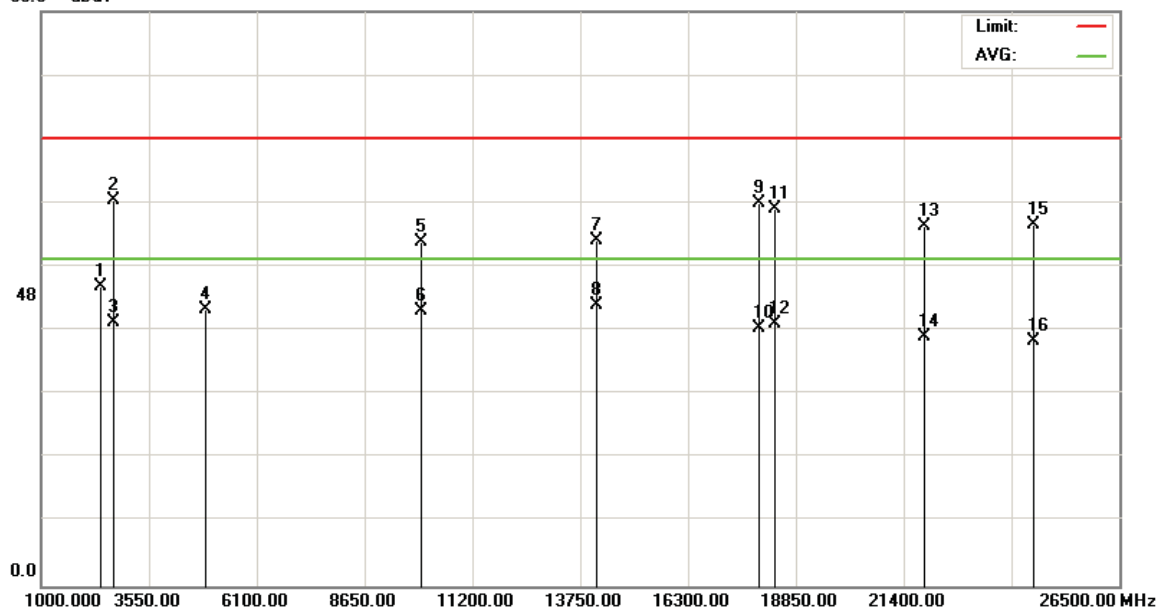
File:EM-100(2441MHz)

Data :#14

Date: 2009/6/5

Time: 上午 01:55:08

95.0 dBuV



Site

Polarization: *Vertical*

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT

Note: 2441MHz , Antenna100cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2399.100	49.40	0.12	49.52	74.00	-24.48	peak		
2		2700.000	41.29	22.58	63.87	74.00	-10.13	peak		
3		2700.000	21.11	22.58	43.69	54.00	-10.31	AVG		
4		4882.000	38.09	7.74	45.83	74.00	-28.17	peak		
5		9981.750	38.97	17.88	56.85	74.00	-17.15	peak		
6		9981.750	27.60	17.88	45.48	54.00	-8.52	AVG		
7		14120.00	38.18	18.87	57.05	74.00	-16.95	peak		
8	*	14120.00	27.46	18.87	46.33	54.00	-7.67	AVG		
9		17980.00	38.17	25.21	63.38	74.00	-10.62	peak		
10		17980.00	17.32	25.21	42.53	54.00	-11.47	AVG		
11		18340.00	39.15	23.18	62.33	74.00	-11.67	peak		
12		18340.00	20.24	23.18	43.42	54.00	-10.58	AVG		
13		21867.50	38.32	21.19	59.51	74.00	-14.49	peak		

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

●Reference Only



Site	Polarization: Vertical	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT:	Distance:	
M/N: 09-0106-CEO		
Mode: BT		
Note: 2441MHz , Antenna100cm , NB01		

No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14	21867.50	19.98	21.19	41.17	54.00	-12.83	AVG		
15	24481.25	40.14	19.67	59.81	74.00	-14.19	peak		
16	24481.25	20.78	19.67	40.45	54.00	-13.55	AVG		

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

●Reference Only



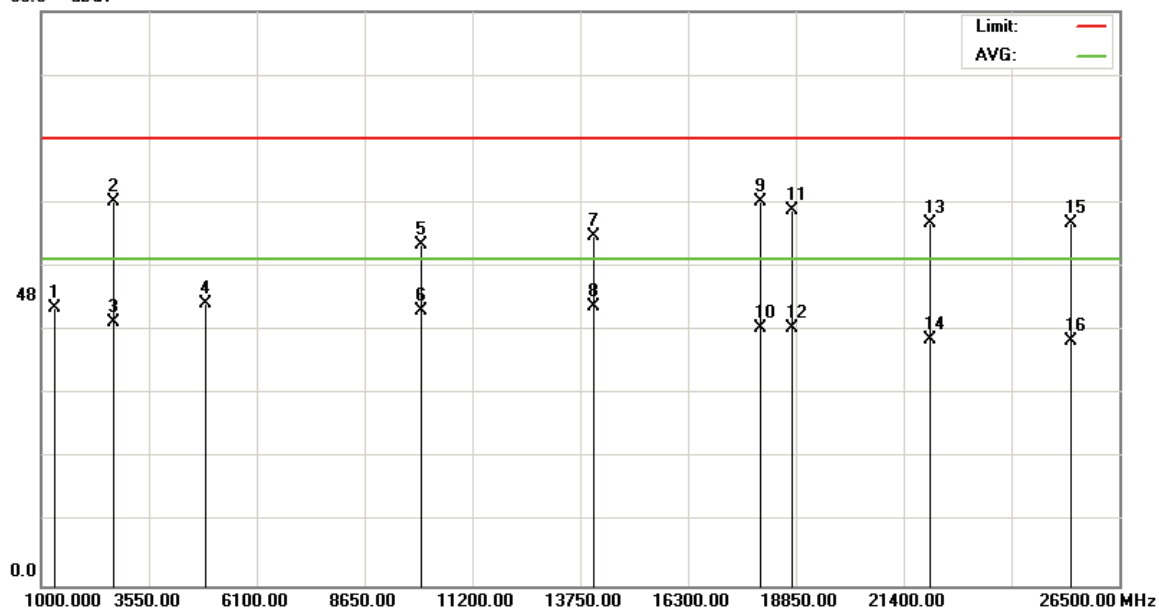
File:EM-100(2441MHz)_tmp

Data :#5

Date: 2009/6/5

Time: 上午 02:02:11

95.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT

Note: 2441MHz , Antenna100cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		1326.400	49.77	-3.90	45.87	74.00	-28.13	peak		
2		2700.000	40.95	22.58	63.53	74.00	-10.47	peak		
3		2700.000	21.11	22.58	43.69	54.00	-10.31	AVG		
4		4882.000	38.90	7.74	46.64	74.00	-27.36	peak		
5		10000.00	38.39	17.94	56.33	74.00	-17.67	peak		
6		10000.00	27.47	17.94	45.41	54.00	-8.59	AVG		
7		14080.00	29.39	28.35	57.74	74.00	-16.26	peak		
8	*	14080.00	17.86	28.35	46.21	54.00	-7.79	AVG		
9		18000.00	28.48	35.11	63.59	74.00	-10.41	peak		
10		18000.00	7.61	35.11	42.72	54.00	-11.28	AVG		
11		18765.00	38.93	23.13	62.06	74.00	-11.94	peak		
12		18765.00	19.60	23.13	42.73	54.00	-11.27	AVG		
13		21995.00	38.74	21.12	59.86	74.00	-14.14	peak		

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

●Reference Only



Site	Polarization: Horizontal	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT:	Distance:	
M/N: 09-0106-CEO		
Mode: BT		
Note: 2441MHz , Antenna100cm , NB01		

No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14	21995.00	19.69	21.12	40.81	54.00	-13.19	AVG		
15	25331.25	40.92	19.09	60.01	74.00	-13.99	peak		
16	25331.25	21.43	19.09	40.52	54.00	-13.48	AVG		

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

●Reference Only



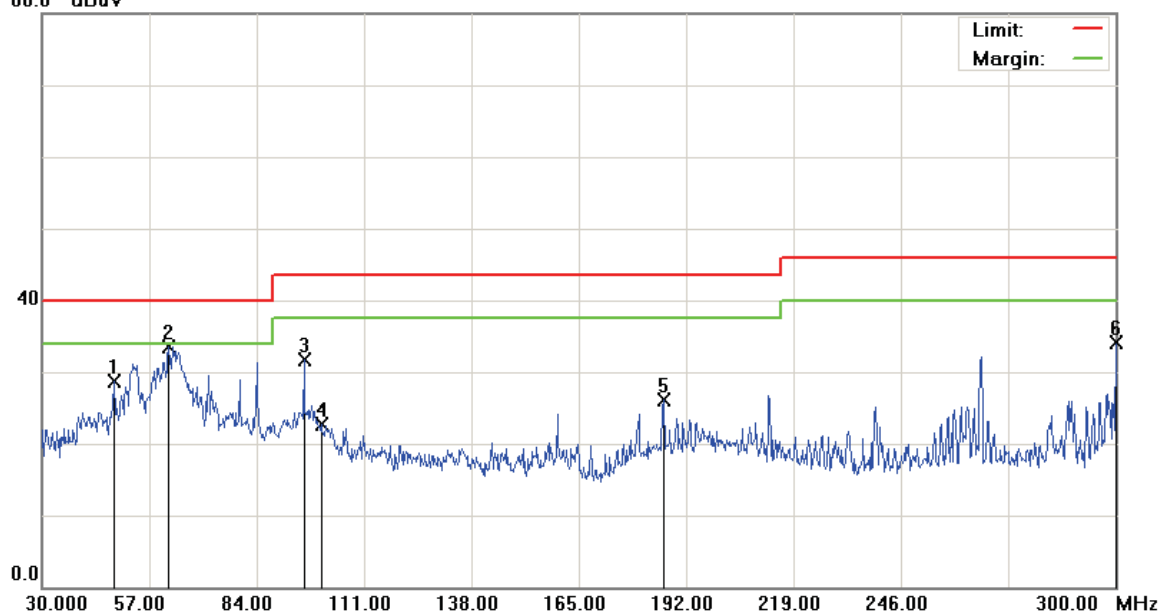
File :EM-100(BT)

Data :#9

Date: 2009/6/4

Time: 下午 04:36:54

80.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT

Note: 2480MHz, EUT置中, NB03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		48.0900	40.65	-12.04	28.61	40.00	-11.39	peak		
2	*	61.8600	46.77	-13.22	33.55	40.00	-6.45	peak		
3		95.8800	43.64	-11.99	31.65	43.50	-11.85	peak		
4		100.2000	34.44	-11.77	22.67	43.50	-20.83	peak		
5		186.3300	39.86	-13.69	26.17	43.50	-17.33	peak		
6		300.0000	44.01	-9.98	34.03	46.00	-11.97	peak		

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

●Reference Only



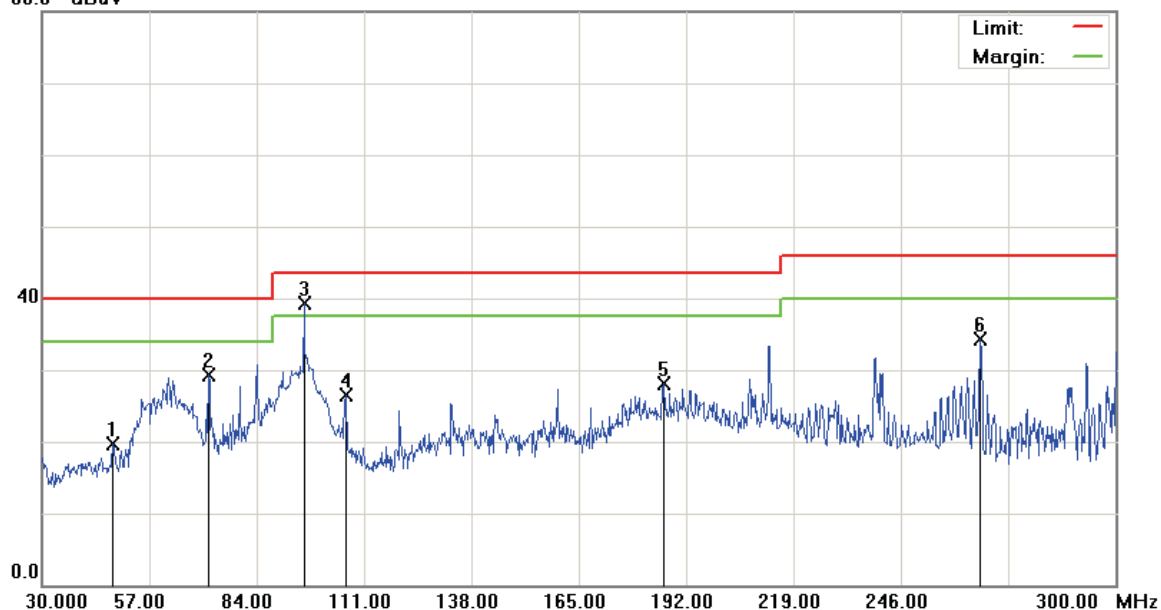
File :EM-100(BT)

Data :#11

Date: 2009/6/4

Time: 下午 04:45:21

80.0 dBuV



Site site#1

Polarization: *Horizontal*

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT

Note: 2480MHz, EUT置中, NB03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		47.8200	31.72	-12.02	19.70	40.00	-20.30	peak		
2		71.8500	46.13	-16.79	29.34	40.00	-10.66	peak		
3	*	95.8800	51.26	-11.99	39.27	43.50	-4.23	peak		
4		106.4100	38.76	-12.20	26.56	43.50	-16.94	peak		
5		186.3300	41.86	-13.69	28.17	43.50	-15.33	peak		
6		265.9800	45.27	-11.01	34.26	46.00	-11.74	peak		

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

●Reference Only



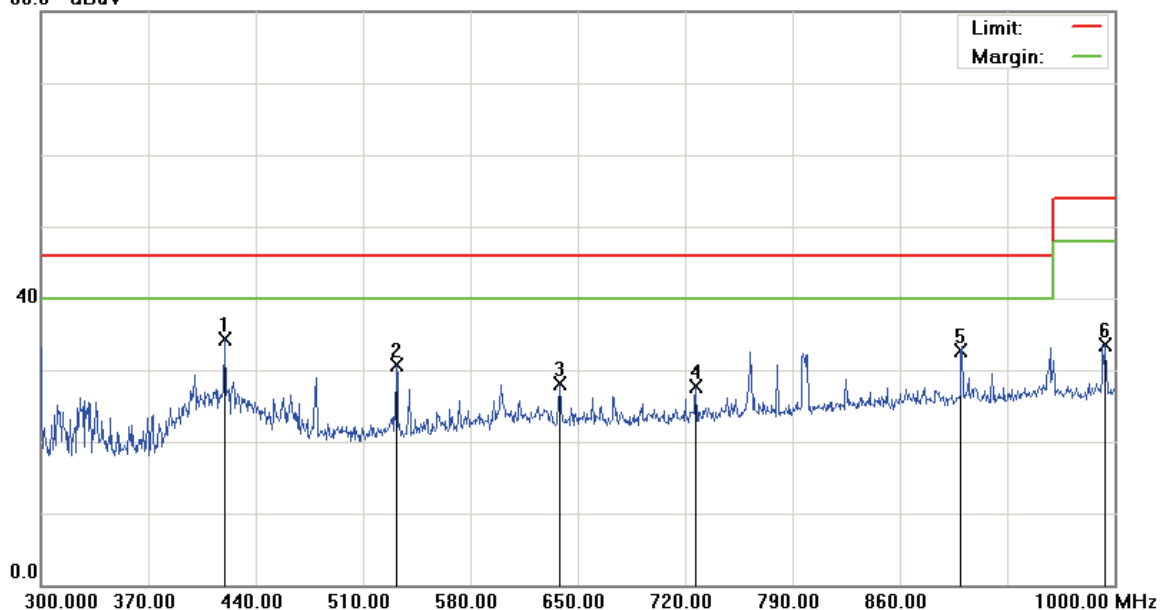
File :EM-100(BT)

Data :#10

Date: 2009/6/4

Time: 下午 04:41:08

80.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT

Note: 2480MHz, EUT置中, NB03

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	419.7000	42.48	-8.10	34.38	46.00	-11.62	peak		
2		531.7000	37.11	-6.32	30.79	46.00	-15.21	peak		
3		638.1000	32.54	-4.42	28.12	46.00	-17.88	peak		
4		727.0000	31.24	-3.54	27.70	46.00	-18.30	peak		
5		899.9000	33.16	-0.37	32.79	46.00	-13.21	peak		
6		993.7000	32.78	0.82	33.60	54.00	-20.40	peak		

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

●Reference Only



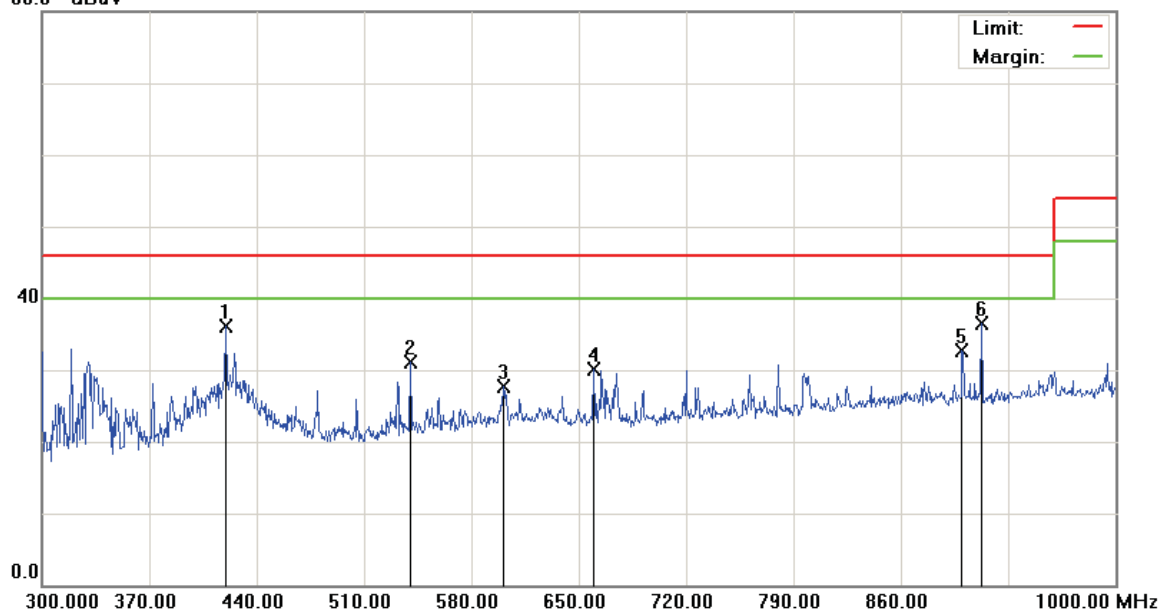
File :EM-100(BT)

Data :#12

Date: 2009/6/4

Time: 下午 04:49:35

80.0 dBuV



Site site#1

Polarization: *Horizontal*

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT

Note: 2480MHz , EUT置中 , NB03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		419.7000	44.11	-8.10	36.01	46.00	-9.99	peak		
2		540.1000	37.19	-6.03	31.16	46.00	-14.84	peak		
3		601.0000	32.62	-4.85	27.77	46.00	-18.23	peak		
4		659.8000	34.41	-4.31	30.10	46.00	-15.90	peak		
5		899.9000	33.13	-0.37	32.76	46.00	-13.24	peak		
6	*	912.5000	36.69	-0.15	36.54	46.00	-9.46	peak		

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

●Reference Only



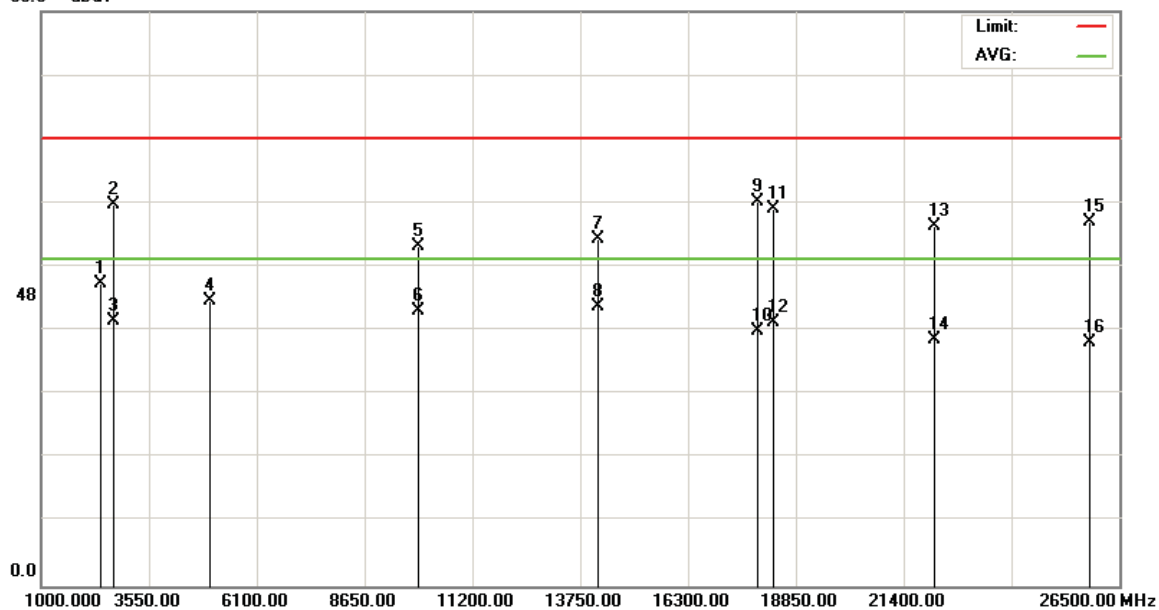
File:EM-100(2480MHz)

Data :#14

Date: 2009/6/5

Time: 上午 01:22:55

95.0 dBuV



Site

Polarization: *Vertical*

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N: 09-0106-CEO

Mode: BT

Note: 2480MHz , Antenna100cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2397.400	49.83	0.13	49.96	74.00	-24.04	QP		
2		2700.000	40.57	22.58	63.15	74.00	-10.85	peak		
3		2700.000	21.25	22.58	43.83	54.00	-10.17	AVG		
4		4960.000	39.35	7.80	47.15	74.00	-26.85	peak		
5		9908.750	38.50	17.78	56.28	74.00	-17.72	peak		
6		9908.750	27.60	17.78	45.38	54.00	-8.62	AVG		
7		14180.00	38.53	18.85	57.38	74.00	-16.62	peak		
8	*	14180.00	27.46	18.85	46.31	54.00	-7.69	AVG		
9		17920.00	38.68	24.84	63.52	74.00	-10.48	peak		
10		17920.00	17.41	24.84	42.25	54.00	-11.75	AVG		
11		18297.50	39.05	23.20	62.25	74.00	-11.75	peak		
12		18297.50	20.33	23.20	43.53	54.00	-10.47	AVG		
13		22101.25	38.39	21.06	59.45	74.00	-14.55	peak		

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

●Reference Only



Site	Polarization: Vertical	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT:	Distance: 1m	
M/N: 09-0106-CEO		
Mode: BT		
Note: 2480MHz , Antenna100cm , NB01		

No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14	22101.25	19.73	21.06	40.79	54.00	-13.21	AVG		
15	25798.75	41.39	18.72	60.11	74.00	-13.89	peak		
16	25798.75	21.55	18.72	40.27	54.00	-13.73	AVG		

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

●Reference Only



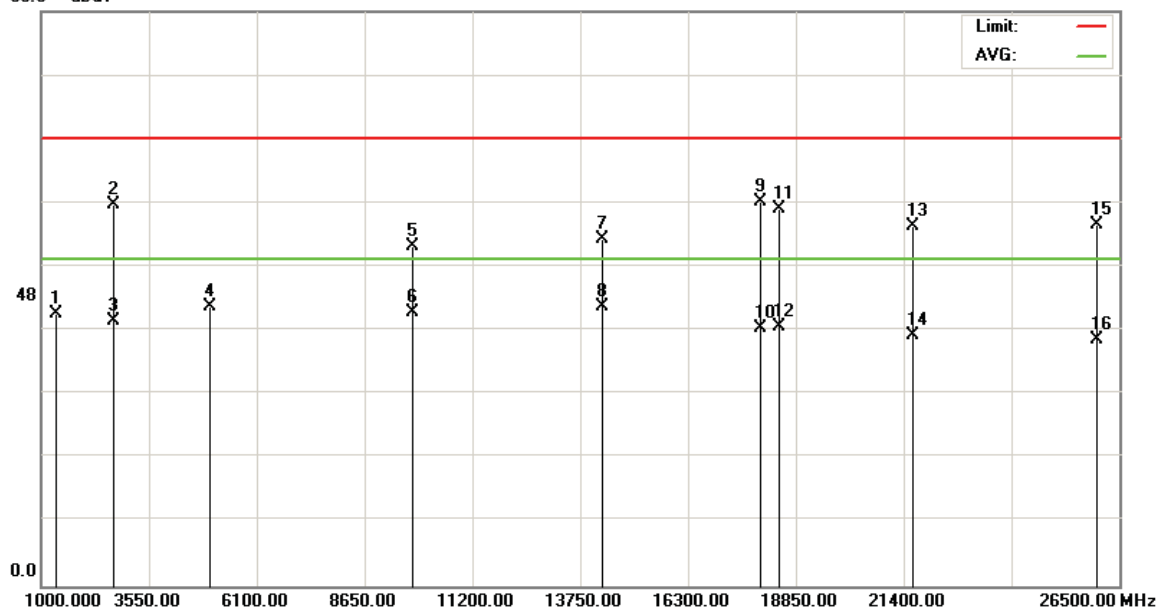
File:EM-100(2480MHz)_tmp

Data :#5

Date:2009/6/5

Time: 上午 01:32:57

95.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N: 09-0106-CEO

Mode: BT

Note: 2480MHz , Antenna100cm , NB01

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		1333.200	48.84	-3.84	45.00	74.00	-29.00	peak		
2		2700.000	40.39	22.58	62.97	74.00	-11.03	peak		
3		2700.000	21.16	22.58	43.74	54.00	-10.26	AVG		
4		4960.000	38.47	7.80	46.27	74.00	-27.73	peak		
5		9762.750	38.39	17.70	56.09	74.00	-17.91	peak		
6		9762.750	27.46	17.70	45.16	54.00	-8.84	AVG		
7		14260.00	29.18	28.20	57.38	74.00	-16.62	peak		
8	*	14260.00	18.03	28.20	46.23	54.00	-7.77	AVG		
9		18000.00	28.47	35.11	63.58	74.00	-10.42	peak		
10		18000.00	7.53	35.11	42.64	54.00	-11.36	AVG		
11		18467.50	39.34	23.12	62.46	74.00	-11.54	peak		
12		18467.50	19.76	23.12	42.88	54.00	-11.12	AVG		
13		21591.25	38.10	21.30	59.40	74.00	-14.60	peak		

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

●Reference Only



Site	Polarization: Horizontal	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT:	Distance: 1m	
M/N: 09-0106-CEO		
Mode: BT		
Note: 2480MHz , Antenna100cm , NB01		

No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14	21591.25	20.04	21.30	41.34	54.00	-12.66	AVG		
15	25947.50	41.15	18.60	59.75	74.00	-14.25	peak		
16	25947.50	22.20	18.60	40.80	54.00	-13.20	AVG		

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

●Reference Only



3.6.2 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 : Partner Tech Corp.
Model No : EM-100
EUT : E-Menu
Test Mode : Link Mode _ Bluetooth EDR Low CH / Middle CH / Light CH
Test Date : 06/04/2009~06/05/2009

Please refer to next page 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



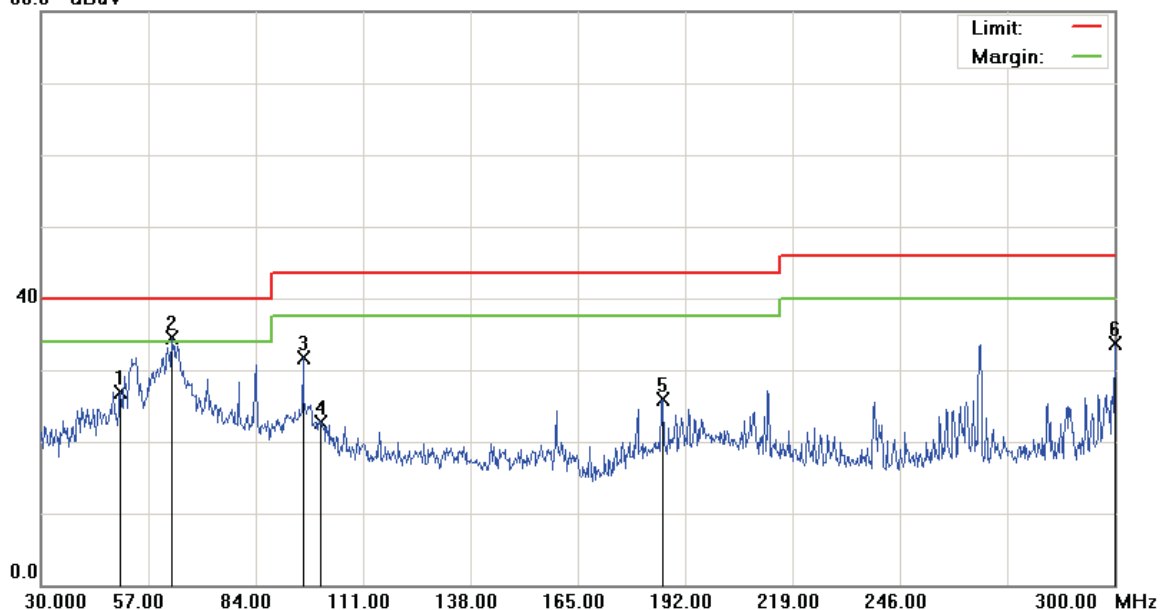
File :EM-100(BT+EDR)

Data :#1

Date: 2009/6/4

Time: 下午 04:58:33

80.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT+EDR

Note: 2402MHz, EUT置中, NB03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		49.9800	39.16	-12.16	27.00	40.00	-13.00	peak		
2	*	62.9400	48.04	-13.60	34.44	40.00	-5.56	peak		
3		95.8800	43.61	-11.99	31.62	43.50	-11.88	peak		
4		100.4700	34.48	-11.79	22.69	43.50	-20.81	peak		
5		186.3300	39.50	-13.69	25.81	43.50	-17.69	peak		
6		300.0000	43.78	-9.98	33.80	46.00	-12.20	peak		

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

●Reference Only



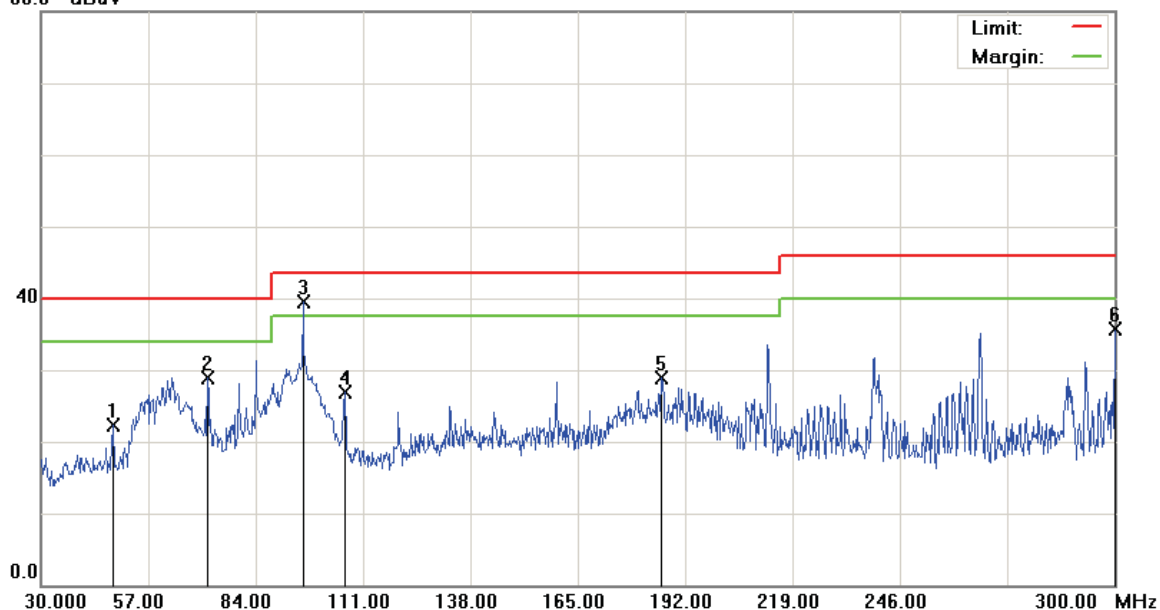
File :EM-100(BT+EDR)

Data :#3

Date: 2009/6/4

Time: 下午 05:07:00

80.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT+EDR

Note: 2402MHz, EUT置中, NB03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		48.0900	34.41	-12.04	22.37	40.00	-17.63	peak		
2		71.8500	45.75	-16.79	28.96	40.00	-11.04	peak		
3	*	95.8800	51.50	-11.99	39.51	43.50	-3.99	peak		
4		106.4100	39.13	-12.20	26.93	43.50	-16.57	peak		
5		186.0600	42.59	-13.72	28.87	43.50	-14.63	peak		
6		300.0000	45.72	-9.98	35.74	46.00	-10.26	peak		

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

●Reference Only



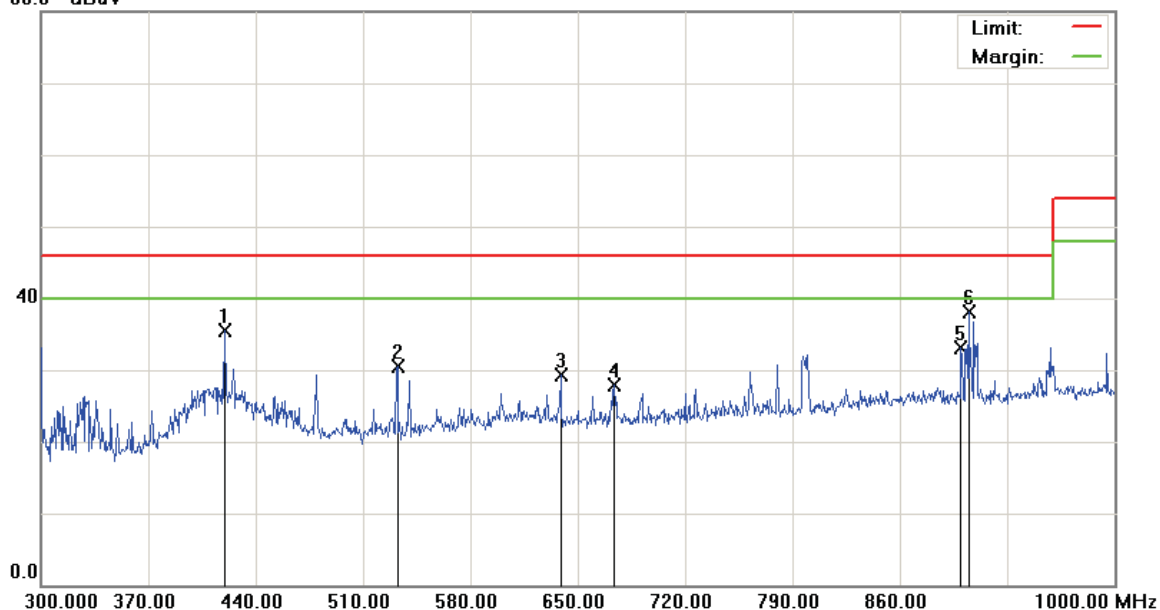
File :EM-100(BT+EDR)

Data :#2

Date: 2009/6/4

Time: 下午 05:02:47

80.0 dBuV



Site site#1

Polarization: *Vertical*

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT+EDR

Note: 2402MHz, EUT置中, NB03

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		419.7000	43.52	-8.10	35.42	46.00	-10.58	peak		
2		532.4000	36.82	-6.33	30.49	46.00	-15.51	peak		
3		638.8000	33.65	-4.43	29.22	46.00	-16.78	peak		
4		673.8000	32.10	-4.28	27.82	46.00	-18.18	peak		
5		899.9000	33.50	-0.37	33.13	46.00	-12.87	peak		
6	*	904.8000	38.31	-0.25	38.06	46.00	-7.94	peak		

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

●Reference Only



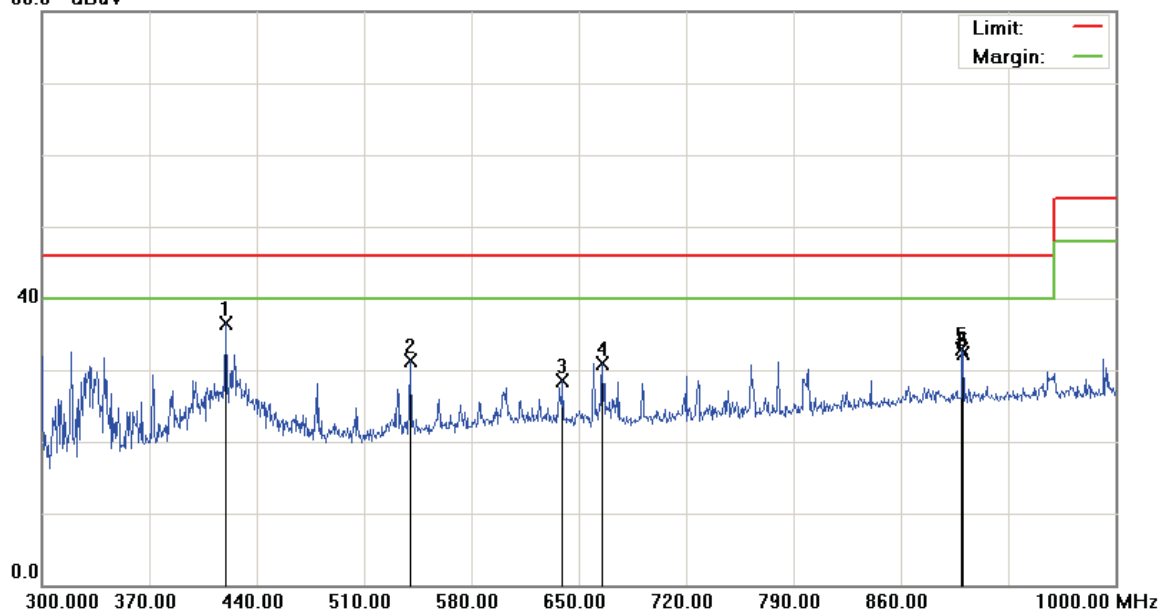
File :EM-100(BT+EDR)

Data :#4

Date: 2009/6/4

Time: 下午 05:11:13

80.0 dBuV



Site site#1

Polarization: *Horizontal*

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT+EDR

Note: 2402MHz, EUT置中, NB03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1	*	419.7000	44.70	-8.10	36.60	46.00	-9.40	peak		
2		540.1000	37.42	-6.03	31.39	46.00	-14.61	peak		
3		639.5000	32.96	-4.45	28.51	46.00	-17.49	peak		
4		665.4000	35.35	-4.45	30.90	46.00	-15.10	peak		
5		899.9000	33.20	-0.37	32.83	46.00	-13.17	peak		
6		900.6000	32.65	-0.36	32.29	46.00	-13.71	peak		

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

●Reference Only



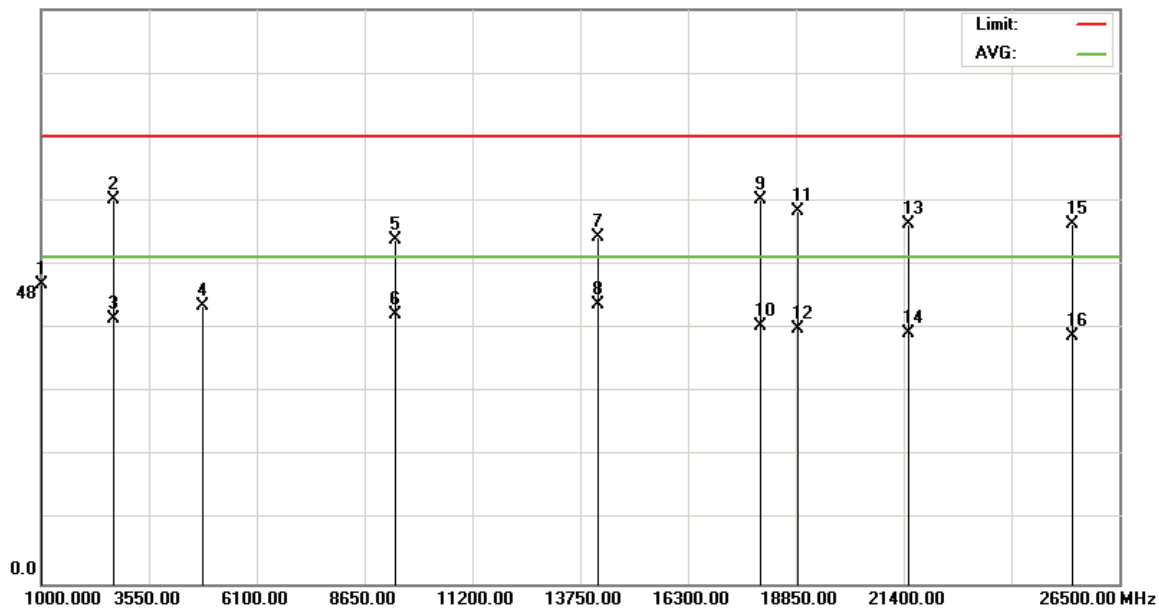
File:EM-100(2402MHz)

Data :#14

Date: 2009/6/5

Time: 上午 01:38:12

95.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT+EDR

Note: 2402MHz , Antenna100cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		1017.000	55.78	-6.17	49.61	74.00	-24.39	peak		
2		2700.000	41.07	22.58	63.65	74.00	-10.35	peak		
3		2700.000	21.21	22.58	43.79	54.00	-10.21	AVG		
4		4804.000	38.67	7.32	45.99	74.00	-28.01	peak		
5		9343.000	40.00	16.93	56.93	74.00	-17.07	peak		
6		9343.000	27.59	16.93	44.52	54.00	-9.48	AVG		
7		14180.00	38.48	18.85	57.33	74.00	-16.67	peak		
8	*	14180.00	27.43	18.85	46.28	54.00	-7.72	AVG		
9		18000.00	37.89	25.57	63.46	74.00	-10.54	peak		
10		18000.00	17.01	25.57	42.58	54.00	-11.42	AVG		
11		18892.50	38.55	23.15	61.70	74.00	-12.30	peak		
12		18892.50	19.05	23.15	42.20	54.00	-11.80	AVG		
13		21506.25	38.07	21.35	59.42	74.00	-14.58	peak		

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

●Reference Only



Site	Polarization: Vertical	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT:	Distance:	
M/N: 09-0106-CEO		
Mode: BT+EDR		
Note: 2402MHz , Antenna100cm , NB01		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14		21506.25	20.00	21.35	41.35	54.00	-12.65	AVG		
15		25373.75	40.54	19.05	59.59	74.00	-14.41	peak		
16		25373.75	21.87	19.05	40.92	54.00	-13.08	AVG		

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

●Reference Only



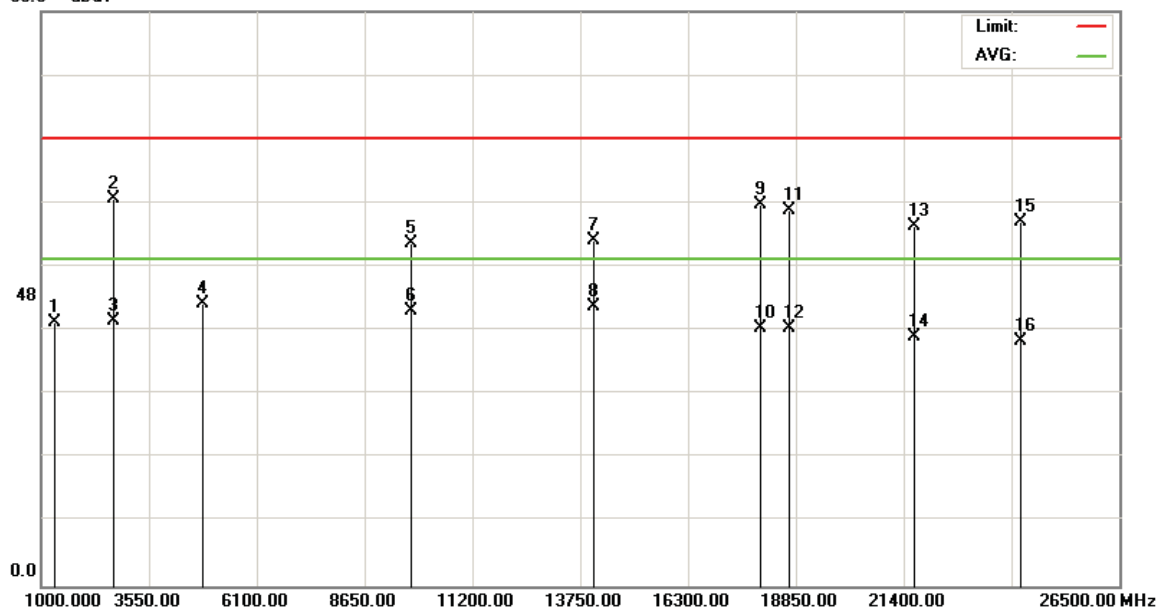
File:EM-100(2402MHz)_tmp

Data :#5

Date: 2009/6/5

Time: 上午 01:48:33

95.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT+EDR

Note: 2402MHz , Antenna100cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		1331.500	47.42	-3.87	43.55	74.00	-30.45	peak		
2		2700.000	41.38	22.58	63.96	74.00	-10.04	peak		
3		2700.000	21.22	22.58	43.80	54.00	-10.20	AVG		
4		4804.000	39.39	7.32	46.71	74.00	-27.29	peak		
5		9744.500	38.95	17.69	56.64	74.00	-17.36	peak		
6		9744.500	27.68	17.69	45.37	54.00	-8.63	AVG		
7		14080.00	28.83	28.35	57.18	74.00	-16.82	peak		
8	*	14080.00	17.87	28.35	46.22	54.00	-7.78	AVG		
9		18000.00	27.92	35.11	63.03	74.00	-10.97	peak		
10		18000.00	7.57	35.11	42.68	54.00	-11.32	AVG		
11		18680.00	38.98	23.09	62.07	74.00	-11.93	peak		
12		18680.00	19.58	23.09	42.67	54.00	-11.33	AVG		
13		21633.75	38.18	21.28	59.46	74.00	-14.54	peak		

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

●Reference Only



Site	Polarization: Horizontal	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT:	Distance:	
M/N: 09-0106-CEO		
Mode: BT+EDR		
Note: 2402MHz , Antenna100cm , NB01		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14		21633.75	20.02	21.28	41.30	54.00	-12.70	AVG		
15		24141.25	40.19	19.90	60.09	74.00	-13.91	peak		
16		24141.25	20.70	19.90	40.60	54.00	-13.40	AVG		

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

●Reference Only



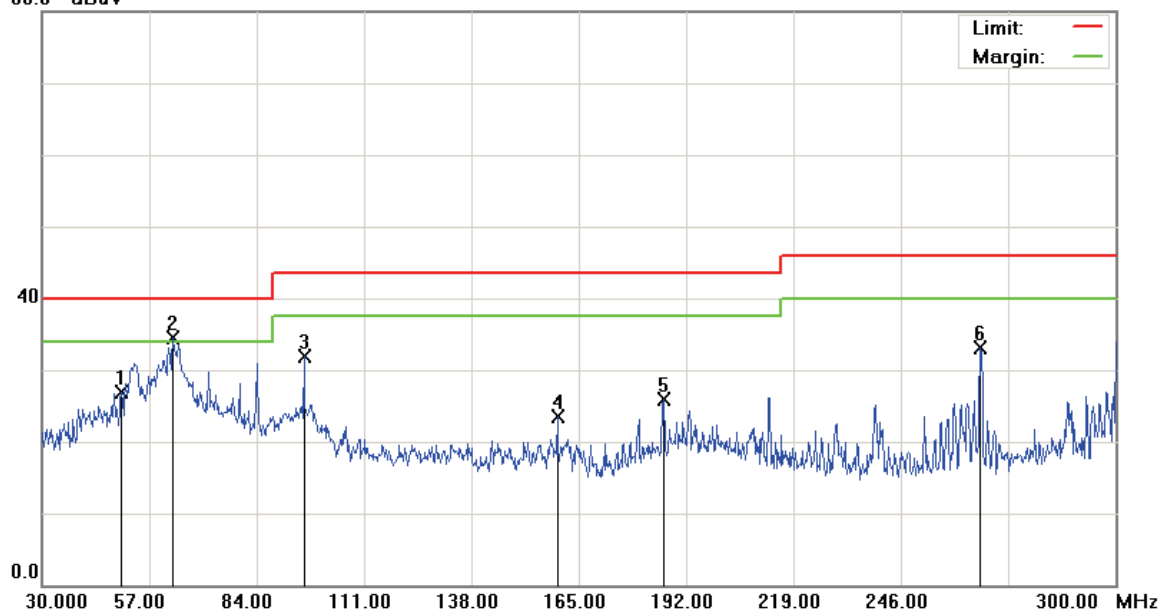
File :EM-100(BT+EDR)

Data :#5

Date: 2009/6/4

Time: 下午 05:20:19

80.0 dBuV



Site site#1

Polarization: *Vertical*

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT+EDR

Note: 2441MHz, EUT置中, NB03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		49.9800	39.14	-12.16	26.98	40.00	-13.02	peak		
2	*	62.9400	48.01	-13.60	34.41	40.00	-5.59	peak		
3		95.8800	43.88	-11.99	31.89	43.50	-11.61	peak		
4		159.6000	39.10	-15.53	23.57	43.50	-19.93	peak		
5		186.3300	39.56	-13.69	25.87	43.50	-17.63	peak		
6		265.9800	44.08	-11.01	33.07	46.00	-12.93	peak		

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

●Reference Only



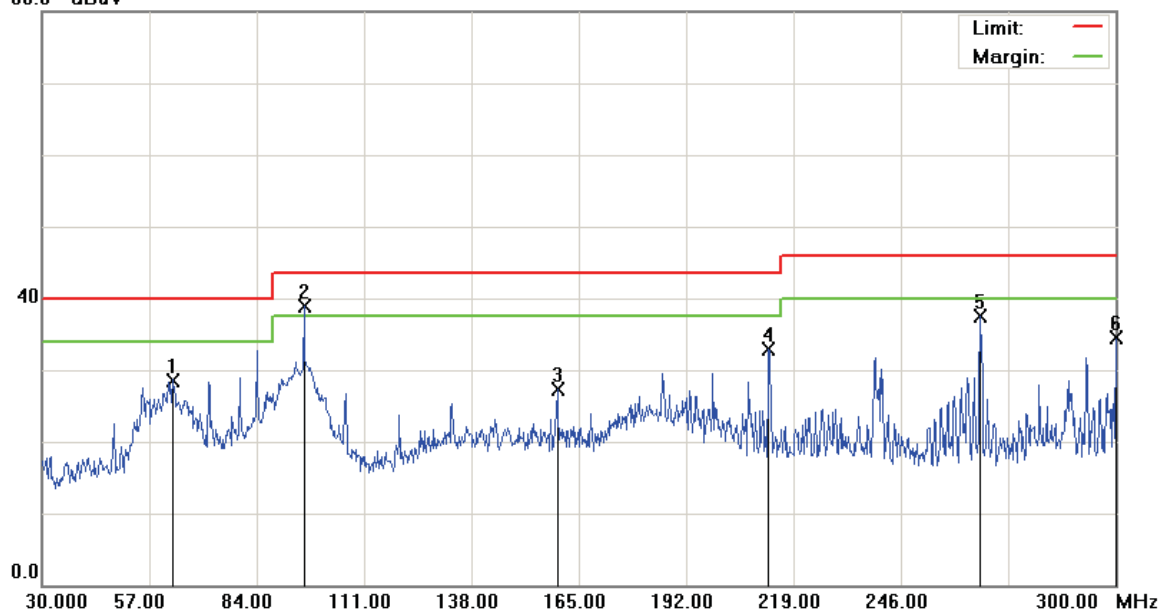
File :EM-100(BT+EDR)

Data :#7

Date: 2009/6/4

Time: 下午 05:32:23

80.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT+EDR

Note: 2441MHz, EUT置中, NB03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		62.9400	42.20	-13.60	28.60	40.00	-11.40	peak		
2	*	95.8800	50.93	-11.99	38.94	43.50	-4.56	peak		
3		159.6000	42.93	-15.53	27.40	43.50	-16.10	peak		
4		212.7900	45.65	-12.74	32.91	43.50	-10.59	peak		
5		265.9800	48.61	-11.01	37.60	46.00	-8.40	peak		
6		300.0000	44.53	-9.98	34.55	46.00	-11.45	peak		

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

●Reference Only



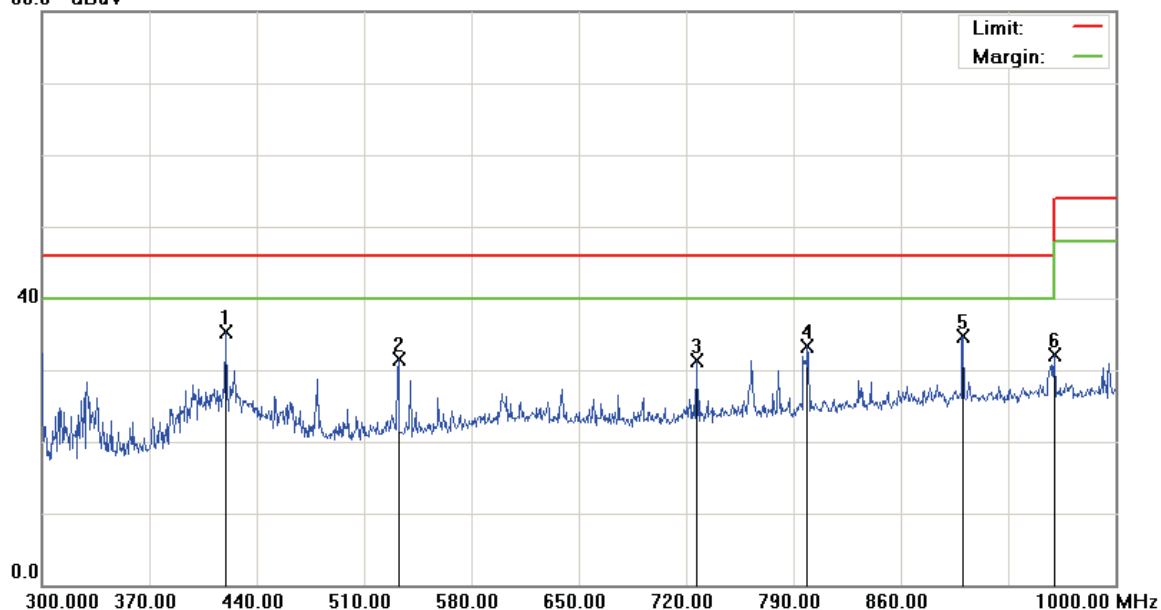
File :EM-100(BT+EDR)

Data :#6

Date: 2009/6/4

Time: 下午 05:27:06

80.0 dBuV



Site site#1

Polarization: *Vertical*

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT+EDR

Note: 2441MHz , EUT置中 , NB03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1	*	419.7000	43.36	-8.10	35.26	46.00	-10.74	peak		
2		532.4000	37.85	-6.33	31.52	46.00	-14.48	peak		
3		727.0000	34.83	-3.54	31.29	46.00	-14.71	peak		
4		799.1000	35.69	-2.32	33.37	46.00	-12.63	peak		
5		900.6000	35.00	-0.36	34.64	46.00	-11.36	peak		
6		960.1000	31.75	0.43	32.18	54.00	-21.82	peak		

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

●Reference Only



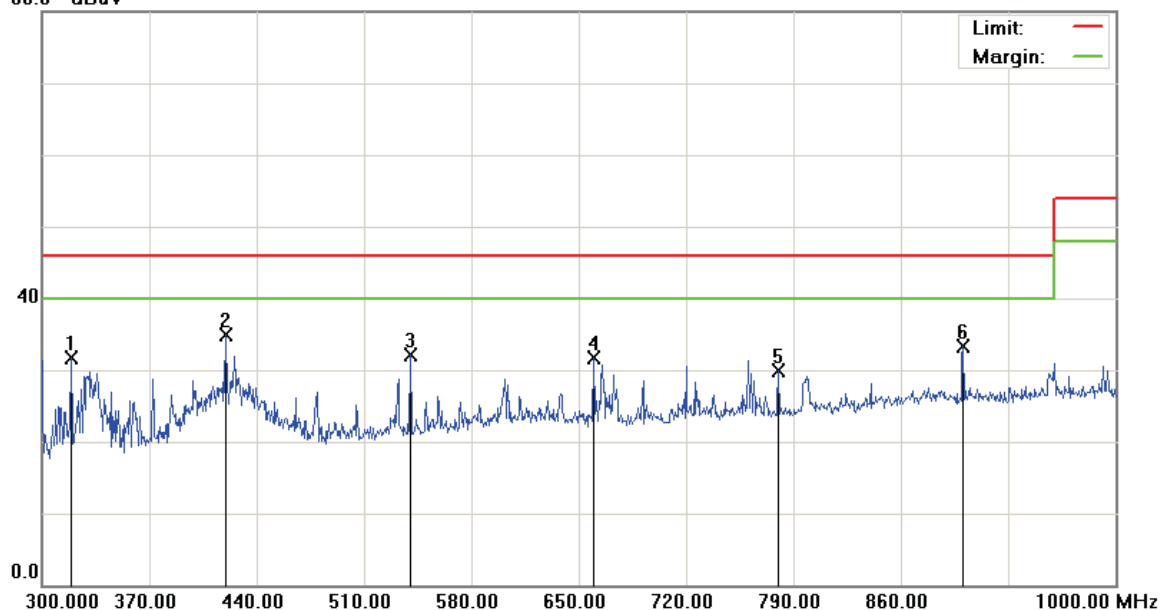
File :EM-100(BT+EDR)

Data :#8

Date: 2009/6/4

Time: 下午 05:37:20

80.0 dBuV



Site site#1

Polarization: *Horizontal*

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT+EDR

Note: 2441MHz, EUT置中, NB03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		318.9000	41.47	-9.80	31.67	46.00	-14.33	peak		
2	*	419.7000	42.92	-8.10	34.82	46.00	-11.18	peak		
3		540.1000	38.13	-6.03	32.10	46.00	-13.90	peak		
4		659.8000	35.92	-4.31	31.61	46.00	-14.39	peak		
5		780.2000	32.33	-2.36	29.97	46.00	-16.03	peak		
6		900.6000	33.60	-0.36	33.24	46.00	-12.76	peak		

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

●Reference Only



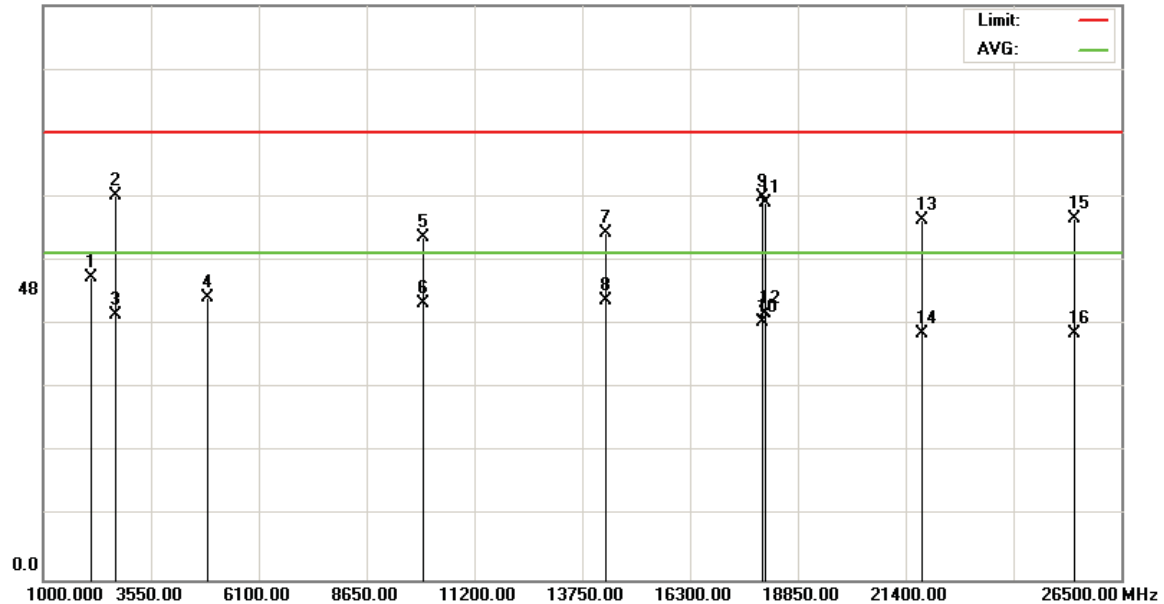
File:EM-100(2441MHz)

Data :#14

Date: 2009/6/5

Time: 上午 01:58:27

95.0 dBuV



Site

Polarization: *Vertical*

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT+EDR

Note: 2441MHz , Antenna100cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2123.700	50.36	-0.29	50.07	74.00	-23.93	peak			
2		2700.000	40.87	22.58	63.45	74.00	-10.55	peak			
3		2700.000	21.22	22.58	43.80	54.00	-10.20	AVG			
4		4882.000	38.97	7.74	46.71	74.00	-27.29	peak			
5		9963.500	38.73	17.82	56.55	74.00	-17.45	peak			
6		9963.500	27.81	17.82	45.63	54.00	-8.37	AVG			
7		14300.00	38.78	18.61	57.39	74.00	-16.61	peak			
8	*	14300.00	27.57	18.61	46.18	54.00	-7.82	AVG			
9		18000.00	37.74	25.57	63.31	74.00	-10.69	peak			
10		18000.00	17.18	25.57	42.75	54.00	-11.25	AVG			
11		18063.75	39.15	23.26	62.41	74.00	-11.59	peak			
12		18063.75	20.74	23.26	44.00	54.00	-10.00	AVG			
13		21782.50	38.20	21.22	59.42	74.00	-14.58	peak			

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

●Reference Only



Site	Polarization: Vertical	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT:	Distance:	
M/N: 09-0106-CEO		
Mode: BT+EDR		
Note: 2441MHz , Antenna100cm , NB01		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14		21782.50	19.44	21.22	40.66	54.00	-13.34	AVG		
15		25373.75	40.59	19.05	59.64	74.00	-14.36	peak		
16		25373.75	21.61	19.05	40.66	54.00	-13.34	AVG		

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

●Reference Only



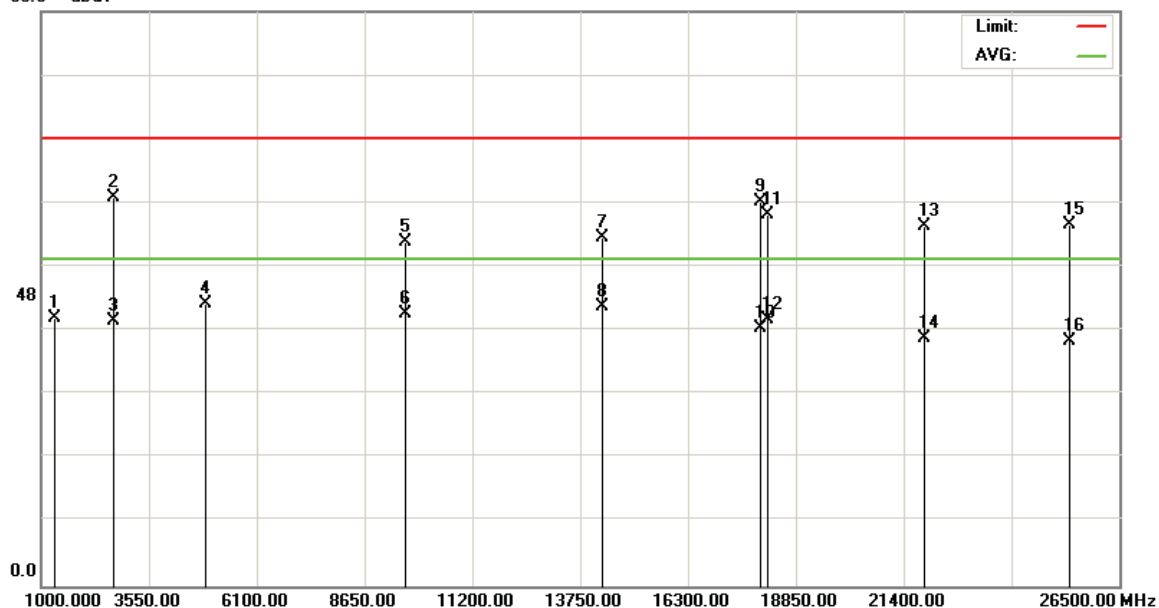
File:EM-100(2441MHz)_tmp

Data :#5

Date: 2009/6/5

Time: 上午 02:05:18

95.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT+EDR

Note: 2441MHz , Antenna100cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		1331.500	48.15	-3.87	44.28	74.00	-29.72	peak		
2		2700.000	41.71	22.58	64.29	74.00	-9.71	peak		
3		2700.000	21.26	22.58	43.84	54.00	-10.16	AVG		
4		4882.000	38.83	7.74	46.57	74.00	-27.43	peak		
5		9598.500	39.50	17.41	56.91	74.00	-17.09	peak		
6		9598.500	27.66	17.41	45.07	54.00	-8.93	AVG		
7		14280.00	29.33	28.17	57.50	74.00	-16.50	peak		
8	*	14280.00	17.98	28.17	46.15	54.00	-7.85	AVG		
9		18000.00	28.41	35.11	63.52	74.00	-10.48	peak		
10		18000.00	7.51	35.11	42.62	54.00	-11.38	AVG		
11		18170.00	38.24	23.23	61.47	74.00	-12.53	peak		
12		18170.00	20.77	23.23	44.00	54.00	-10.00	AVG		
13		21867.50	38.39	21.19	59.58	74.00	-14.42	peak		

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

●Reference Only



Site	Polarization: Horizontal	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT:	Distance:	
M/N: 09-0106-CEO		
Mode: BT+EDR		
Note: 2441MHz , Antenna100cm , NB01		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14		21867.50	19.81	21.19	41.00	54.00	-13.00	AVG		
15		25310.00	40.60	19.10	59.70	74.00	-14.30	peak		
16		25310.00	21.43	19.10	40.53	54.00	-13.47	AVG		

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

●Reference Only



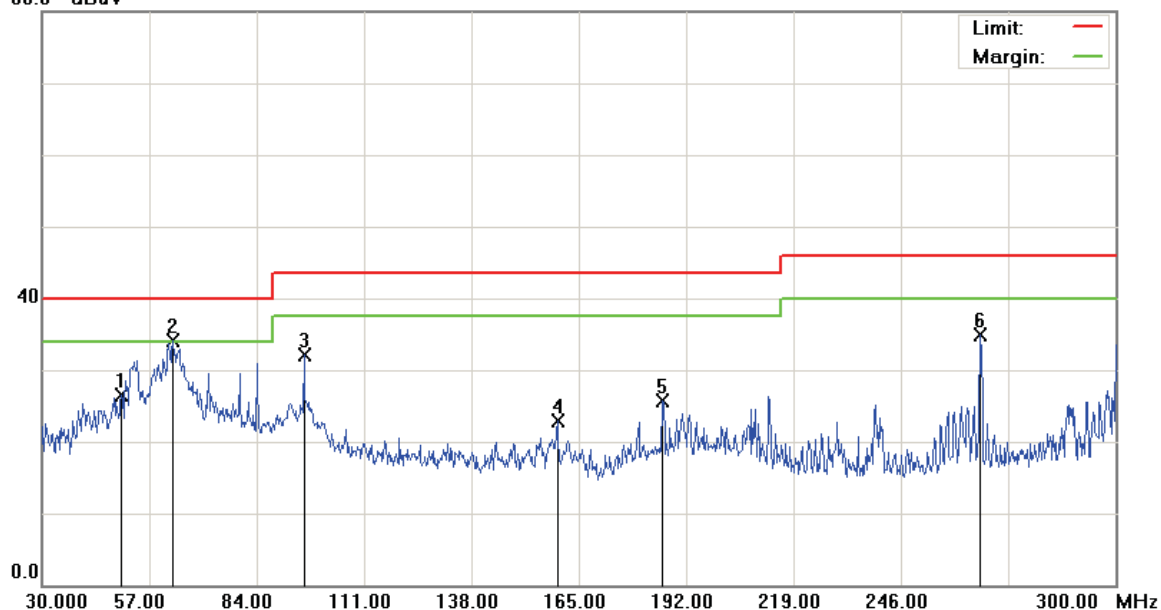
File :EM-100(BT+EDR)

Data :#9

Date: 2009/6/4

Time: 下午 05:43:52

80.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT+EDR

Note: 2480MHz, EUT置中, NB03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		49.9800	38.71	-12.16	26.55	40.00	-13.45	peak		
2	*	62.9400	47.63	-13.60	34.03	40.00	-5.97	peak		
3		95.8800	44.03	-11.99	32.04	43.50	-11.46	peak		
4		159.6000	38.52	-15.53	22.99	43.50	-20.51	peak		
5		186.0600	39.41	-13.72	25.69	43.50	-17.81	peak		
6		265.9800	45.93	-11.01	34.92	46.00	-11.08	peak		

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

●Reference Only



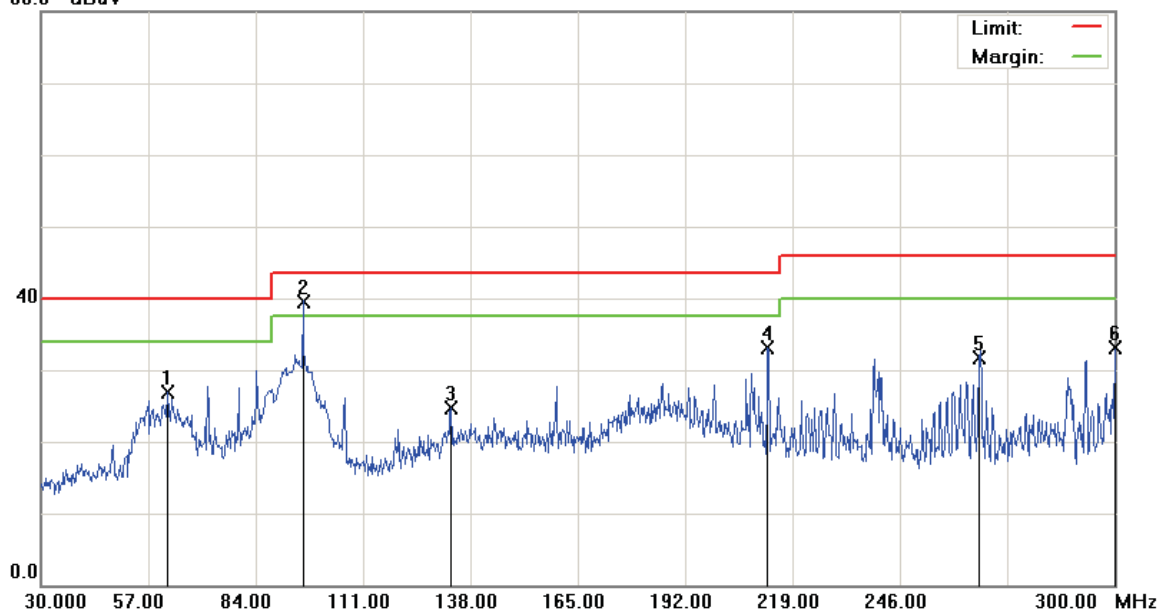
File :EM-100(BT+EDR)

Data :#11

Date: 2009/6/4

Time: 下午 05:53:23

80.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT+EDR

Note: 2480MHz, EUT置中, NB03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		61.8600	40.16	-13.22	26.94	40.00	-13.06	peak		
2	*	95.8800	51.59	-11.99	39.60	43.50	-3.90	peak		
3		133.1400	40.48	-15.84	24.64	43.50	-18.86	peak		
4		212.7900	45.91	-12.74	33.17	43.50	-10.33	peak		
5		265.9800	42.76	-11.01	31.75	46.00	-14.25	peak		
6		300.0000	43.17	-9.98	33.19	46.00	-12.81	peak		

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

●Reference Only



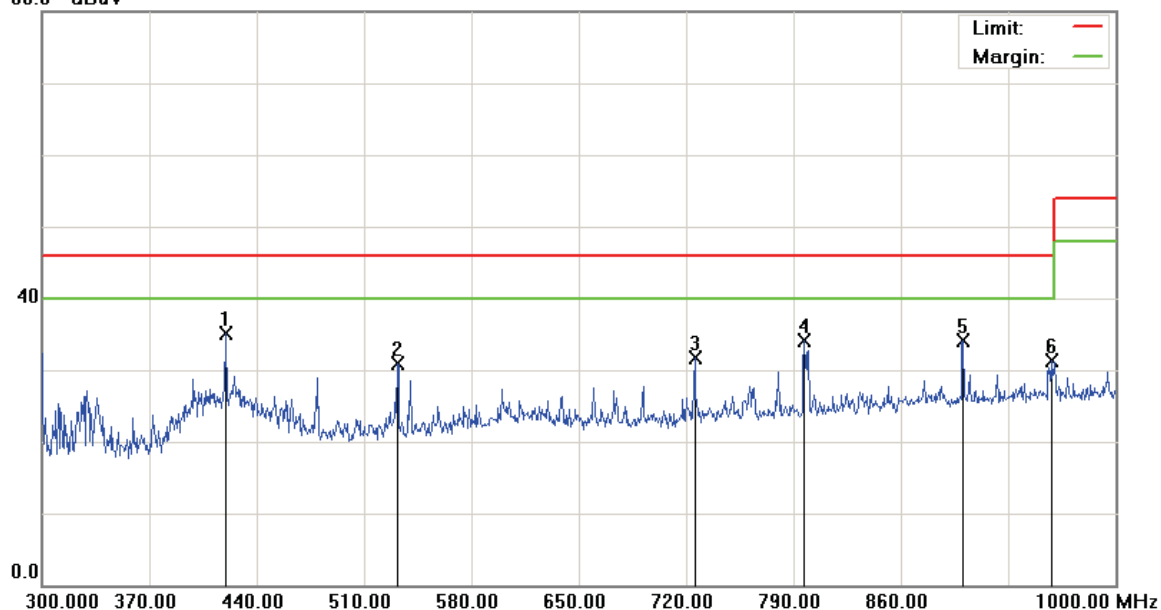
File :EM-100(BT+EDR)

Data :#10

Date: 2009/6/4

Time: 下午 05:50:44

80.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT+EDR

Note: 2480MHz, EUT置中, NB03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1	*	419.7000	43.28	-8.10	35.18	46.00	-10.82	peak		
2		531.7000	37.19	-6.32	30.87	46.00	-15.13	peak		
3		725.6000	35.33	-3.54	31.79	46.00	-14.21	peak		
4		797.0000	36.43	-2.34	34.09	46.00	-11.91	peak		
5		900.6000	34.49	-0.36	34.13	46.00	-11.87	peak		
6		958.0000	30.92	0.36	31.28	46.00	-14.72	peak		

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

●Reference Only



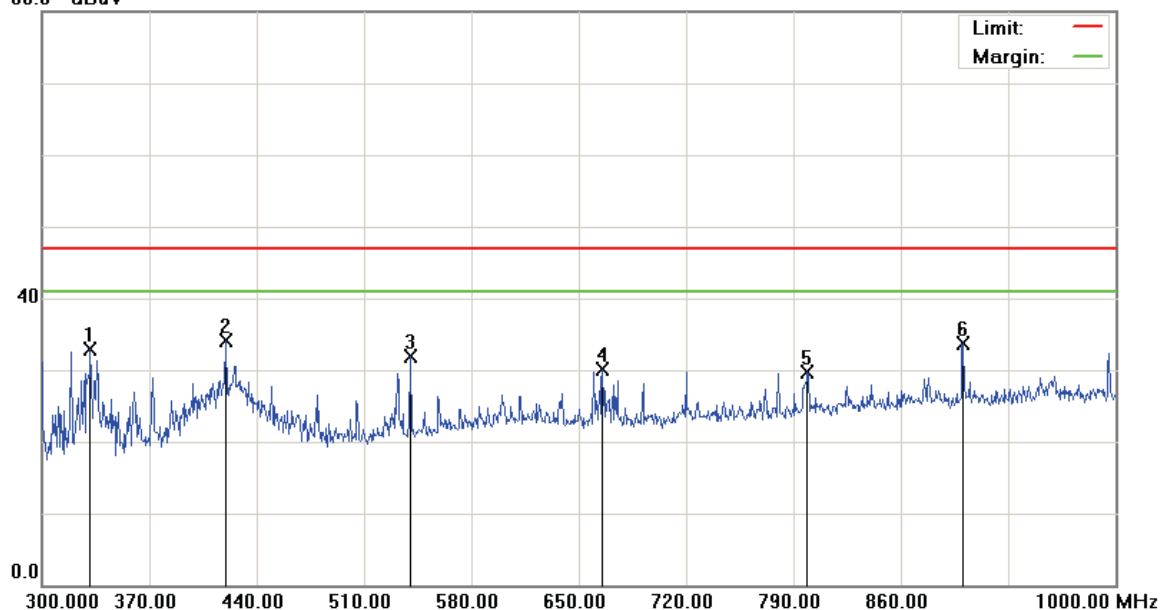
File :EM-100(BT+EDR)

Data :#12

Date: 2009/6/4

Time: 下午 05:56:00

80.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: CISPR22 ClassB 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT+EDR

Note: 2480MHz , EUT置中 , NB03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		331.5000	42.30	-9.38	32.92	47.00	-14.08	peak		
2	*	419.7000	42.16	-8.10	34.06	47.00	-12.94	peak		
3		540.1000	37.92	-6.03	31.89	47.00	-15.11	peak		
4		665.4000	34.59	-4.45	30.14	47.00	-16.86	peak		
5		799.1000	32.10	-2.32	29.78	47.00	-17.22	peak		
6		900.6000	33.99	-0.36	33.63	47.00	-13.37	peak		

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

●Reference Only



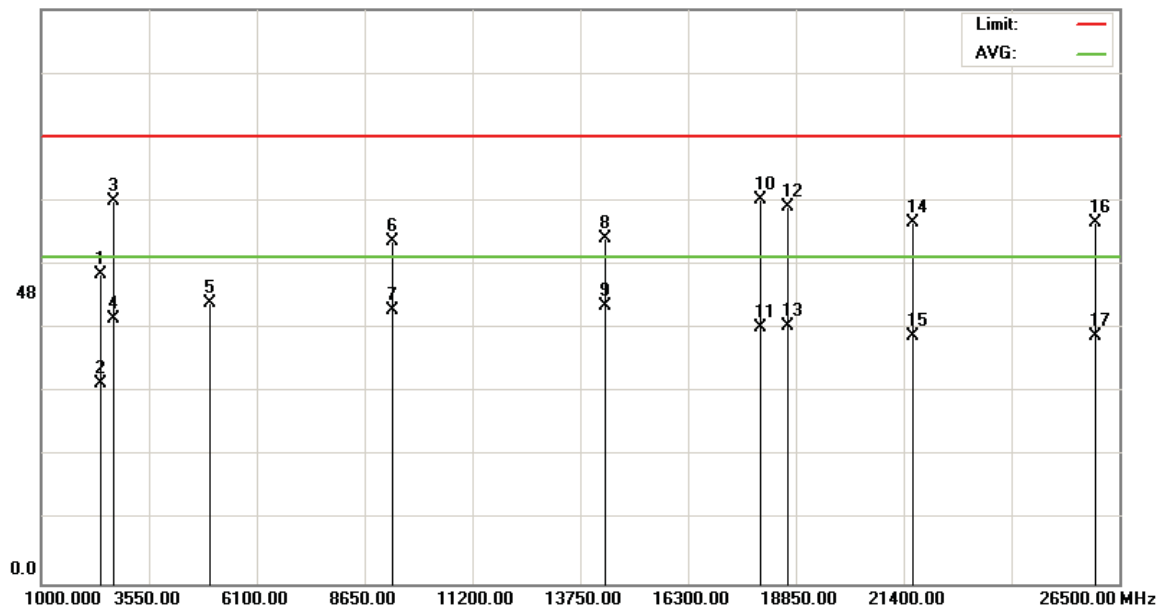
File:EM-100(2480MHz)

Data :#14

Date: 2009/6/5

Time: 上午 01:25:51

95.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT+EDR

Note: 2480MHz , Antenna105cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2392.300	50.98	0.15	51.13	74.00	-22.87	peak		
2		2392.300	32.96	0.15	33.11	54.00	-20.89	AVG		
3		2700.000	40.79	22.58	63.37	74.00	-10.63	peak		
4		2700.000	21.20	22.58	43.78	54.00	-10.22	AVG		
5		4960.000	38.55	7.80	46.35	74.00	-27.65	peak		
6		9306.500	39.66	16.89	56.55	74.00	-17.45	peak		
7		9306.500	28.26	16.89	45.15	54.00	-8.85	AVG		
8		14320.00	38.59	18.57	57.16	74.00	-16.84	peak		
9	*	14320.00	27.47	18.57	46.04	54.00	-7.96	AVG		
10		18000.00	38.03	25.57	63.60	74.00	-10.40	peak		
11		18000.00	16.89	25.57	42.46	54.00	-11.54	AVG		
12		18637.50	39.24	23.08	62.32	74.00	-11.68	peak		
13		18637.50	19.60	23.08	42.68	54.00	-11.32	AVG		

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

●Reference Only



Site	Polarization: Vertical	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT:	Distance:	
M/N: 09-0106-CEO		
Mode: BT+EDR		
Note: 2480MHz , Antenna105cm , NB01		

No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14	21612.50	38.41	21.28	59.69	74.00	-14.31	peak		
15	21612.50	19.79	21.28	41.07	54.00	-12.93	AVG		
16	25926.25	41.16	18.62	59.78	74.00	-14.22	peak		
17	25926.25	22.32	18.62	40.94	54.00	-13.06	AVG		

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

●Reference Only



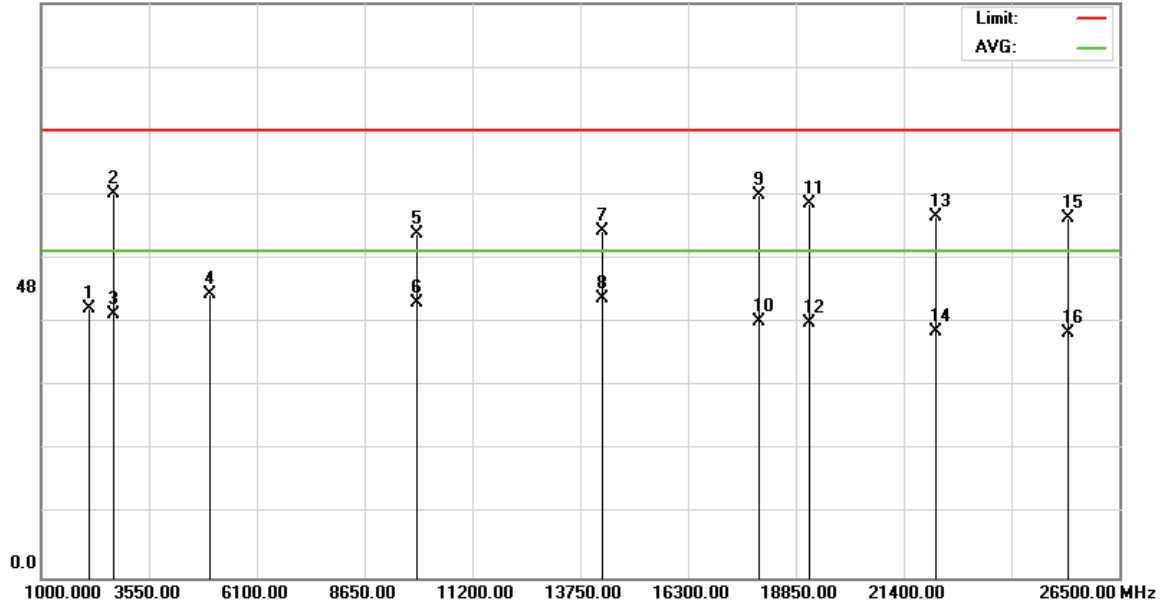
File:EM-100(2480MHz)_tmp

Data :#5

Date: 2009/6/5

Time: 上午 01:29:45

95.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT+EDR

Note: 2480MHz , Antenna105cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2128.800	44.77	-0.24	44.53	74.00	-29.47	peak		
2		2700.000	41.00	22.58	63.58	74.00	-10.42	peak		
3		2700.000	21.04	22.58	43.62	54.00	-10.38	AVG		
4		4960.000	39.19	7.80	46.99	74.00	-27.01	peak		
5		9890.500	38.98	17.80	56.78	74.00	-17.22	peak		
6		9890.500	27.67	17.80	45.47	54.00	-8.53	AVG		
7		14260.00	29.24	28.20	57.44	74.00	-16.56	peak		
8	*	14260.00	18.07	28.20	46.27	54.00	-7.73	AVG		
9		17980.00	28.62	34.75	63.37	74.00	-10.63	peak		
10		17980.00	7.65	34.75	42.40	54.00	-11.60	AVG		
11		19147.50	38.84	22.97	61.81	74.00	-12.19	peak		
12		19147.50	19.28	22.97	42.25	54.00	-11.75	AVG		
13		22143.75	38.61	21.04	59.65	74.00	-14.35	peak		

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

●Reference Only



Site	Polarization: Horizontal	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT:	Distance:	
M/N: 09-0106-CEO		
Mode: BT+EDR		
Note: 2480MHz , Antenna105cm , NB01		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14		22143.75	19.63	21.04	40.67	54.00	-13.33	AVG		
15		25288.75	40.39	19.11	59.50	74.00	-14.50	peak		
16		25288.75	21.27	19.11	40.38	54.00	-13.62	AVG		

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

●Reference Only

4. Maximum Conducted Output Power Requirements

4.1 Test Condition & Setup:

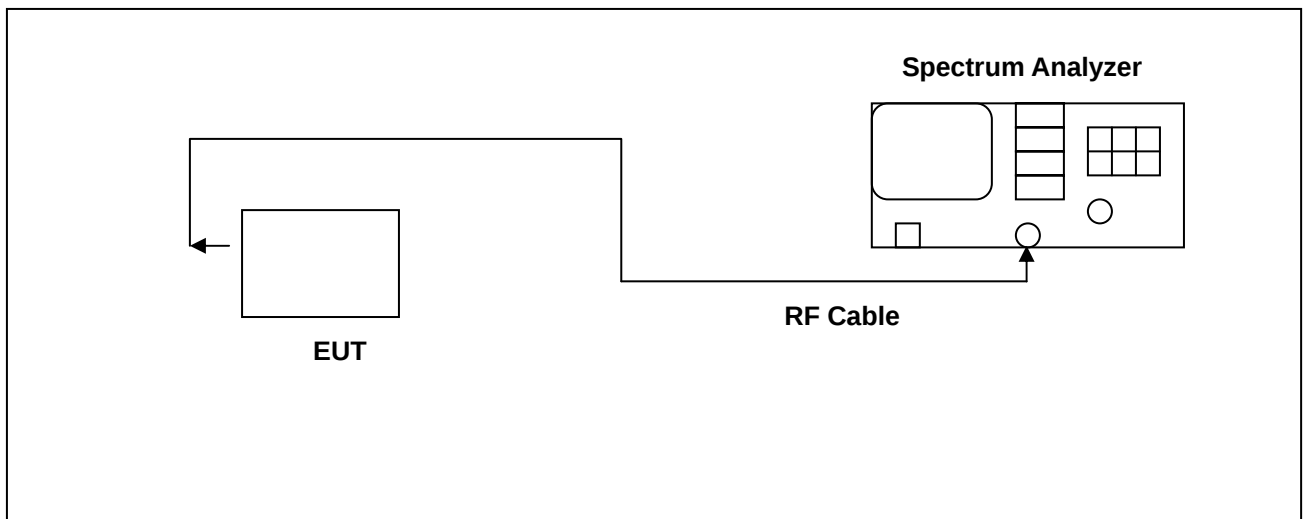
The tests below are run with the EUT's transmitter set at high power in TX mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to spectrum analyzer. 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 $(\text{GAIN} - 6)/3$ 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 14, 2009	May 14, 2010

4.4 Test Result

Bluetooth 2.0

Frequency (MHz)	Output (dBm)	Required Limit
2402	-7.257	<30dBm
2441	-6.083	<30dBm
2480	-5.381	<30dBm

Bluetooth EDR

Frequency (MHz)	Output (dBm)	Required Limit
2402	-7.441	<30dBm
2441	-6.257	<30dBm
2480	-5.513	<30dBm

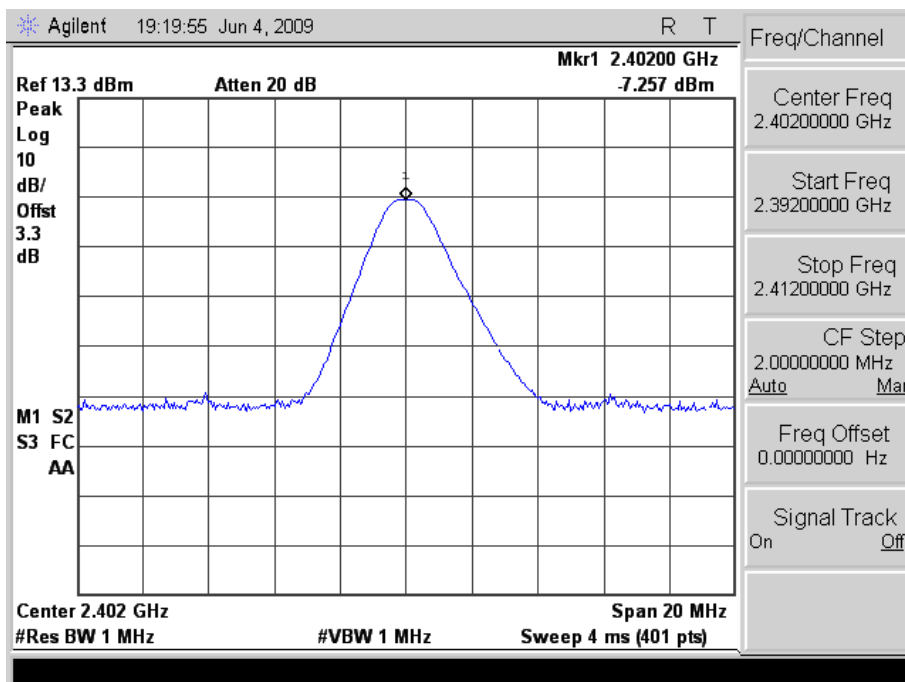
Note: Test Graphs See next page.



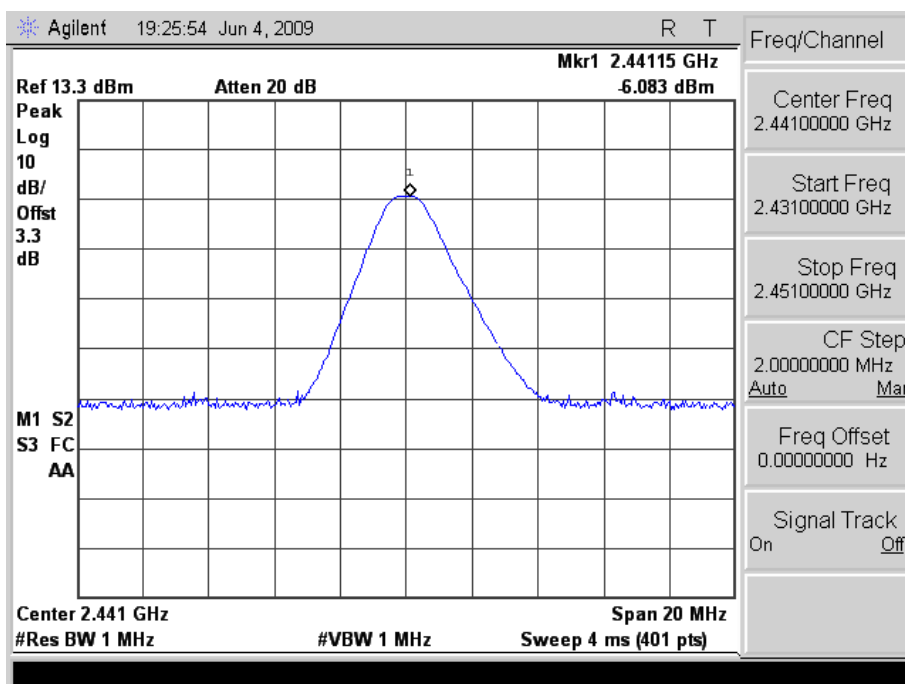
4.5 Test Graphs

4.5.1 Bluetooth 2.0 Mode:

Bluetooth 2.0 CH00 (2402MHz)

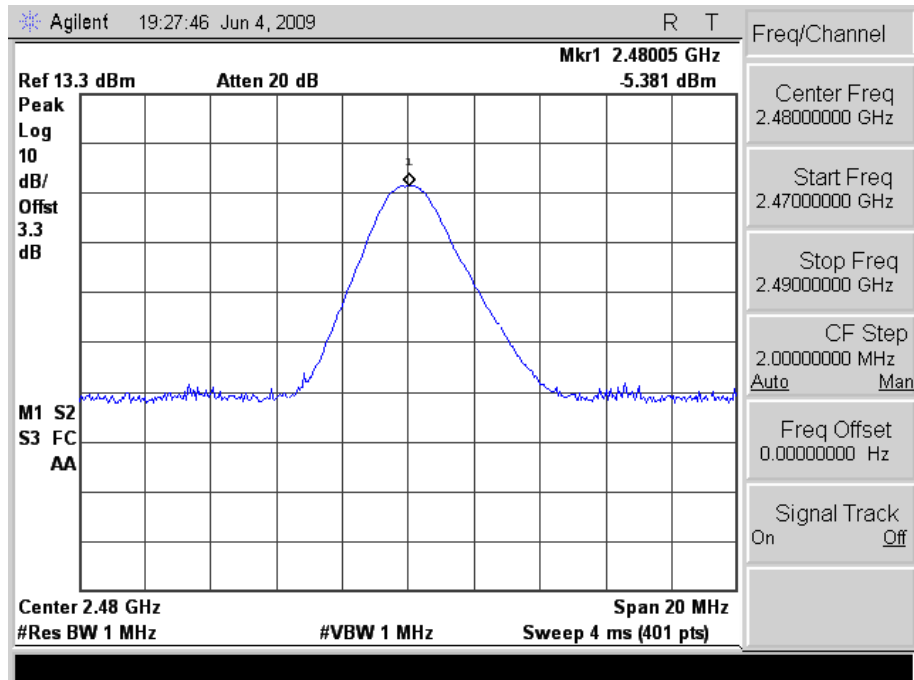


Bluetooth 2.0 CH39 (2441MHz)





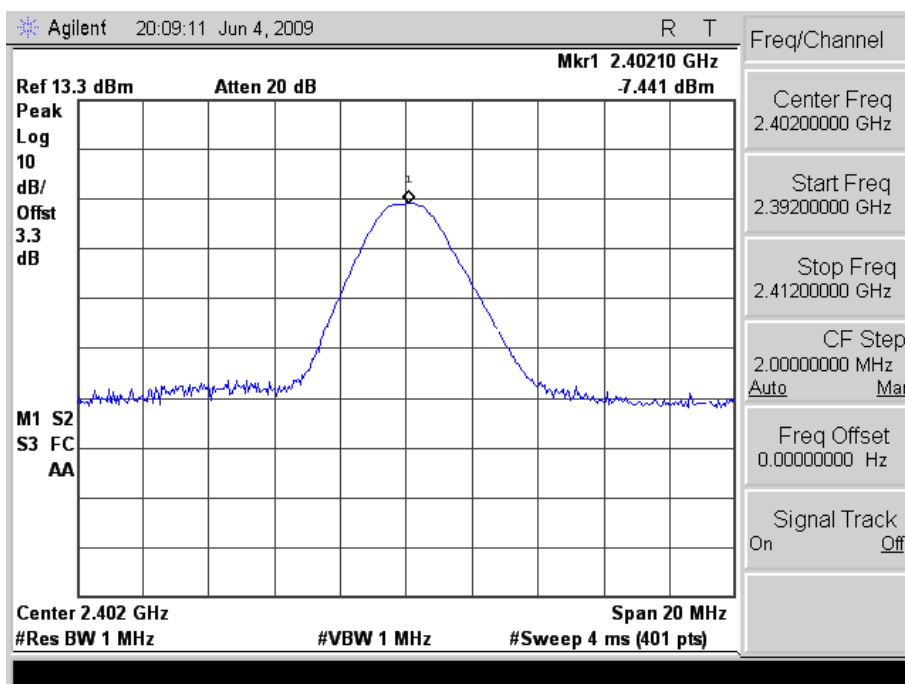
Bluetooth 2.0 CH78 (2480MHz)



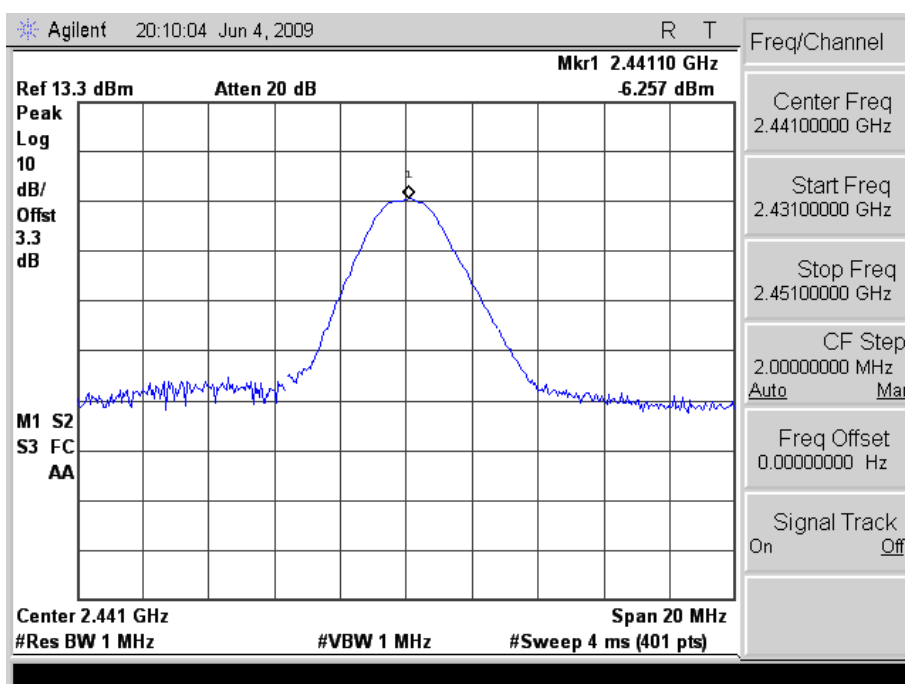


4.5.2 Test Graphs _ Bluetooth EDR Mode:

Bluetooth EDR CH00 (2402MHz)

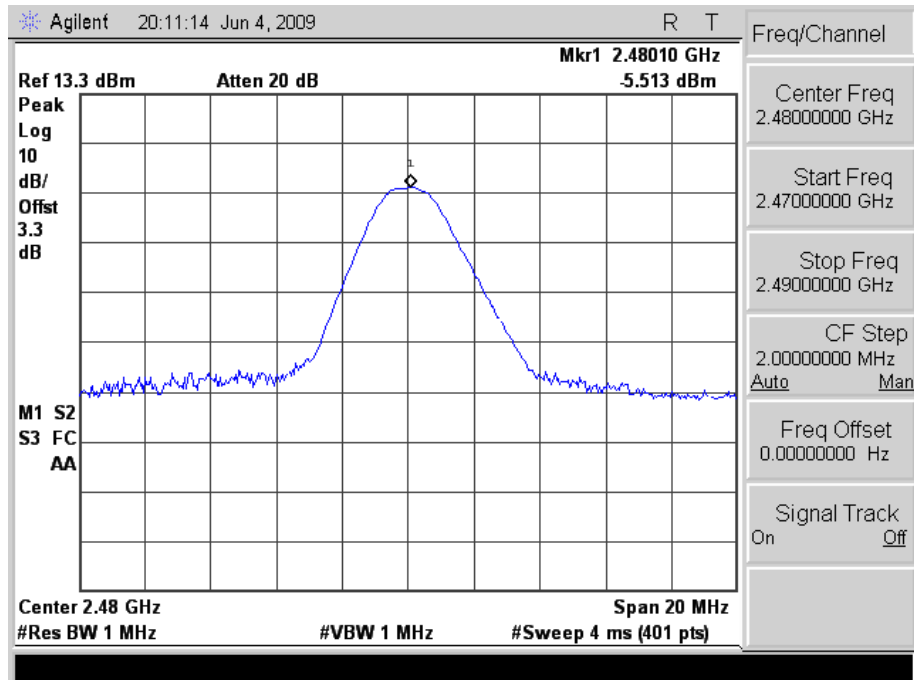


Bluetooth EDR CH39 (2441MHz)





Bluetooth EDR CH78 (2480MHz)



5. Minimum 20dB RF Bandwidth Requirements

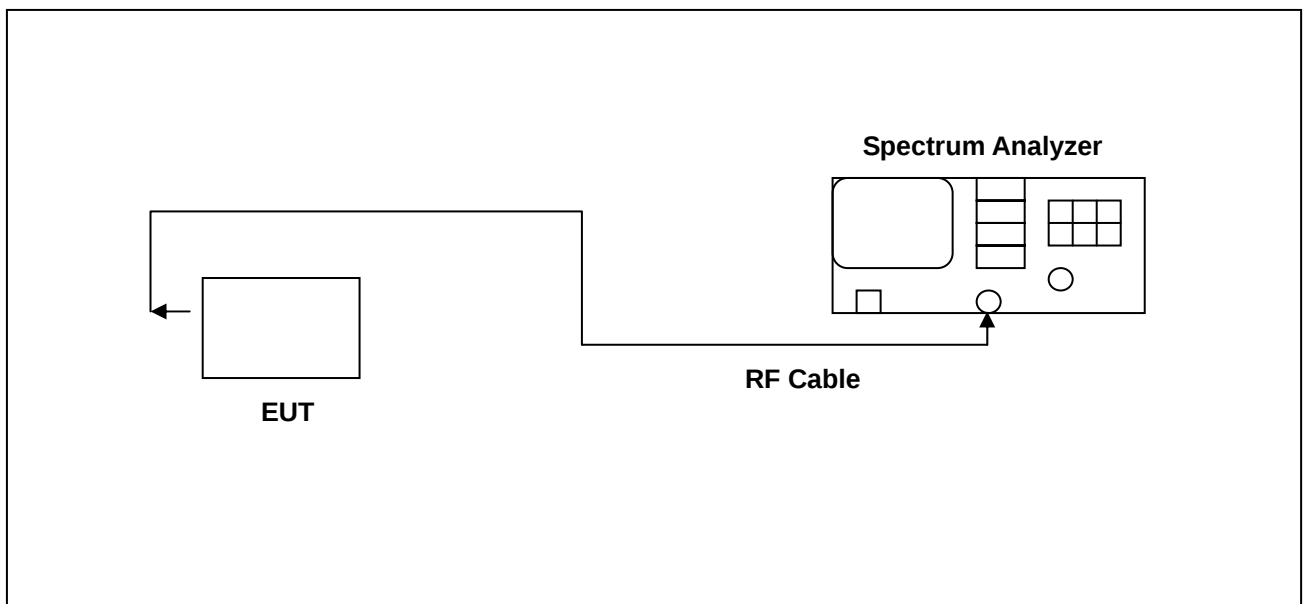
5.1 Test Condition & Setup:

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 $\geq$ 1% of the 20dB span
3. VBW $\geq$ 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 14, 2009	May 14, 2010

5.4 Test Result

Bluetooth 2.0

Frequency (MHz)	Max 20dB Bandwidth (MHz)
2402	0.765
2441	0.735
2480	0.765

Bluetooth EDR

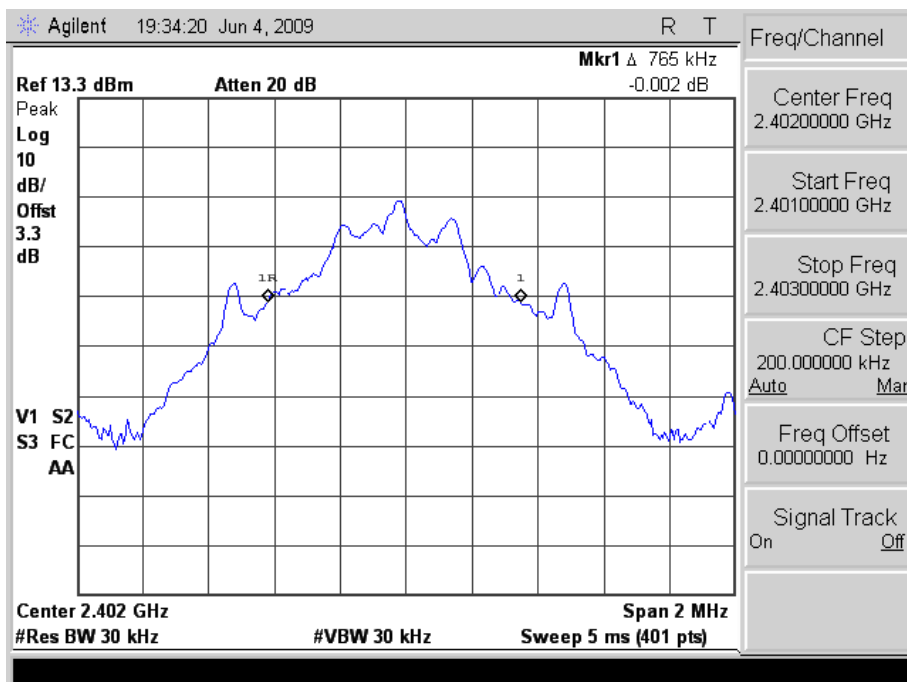
Frequency (MHz)	Max 20dB Bandwidth (MHz)	2/3 Max 20dB Bandwidth (MHz)
2402	1.700	0.780
2441	1.700	0.780
2480	1.800	0.786



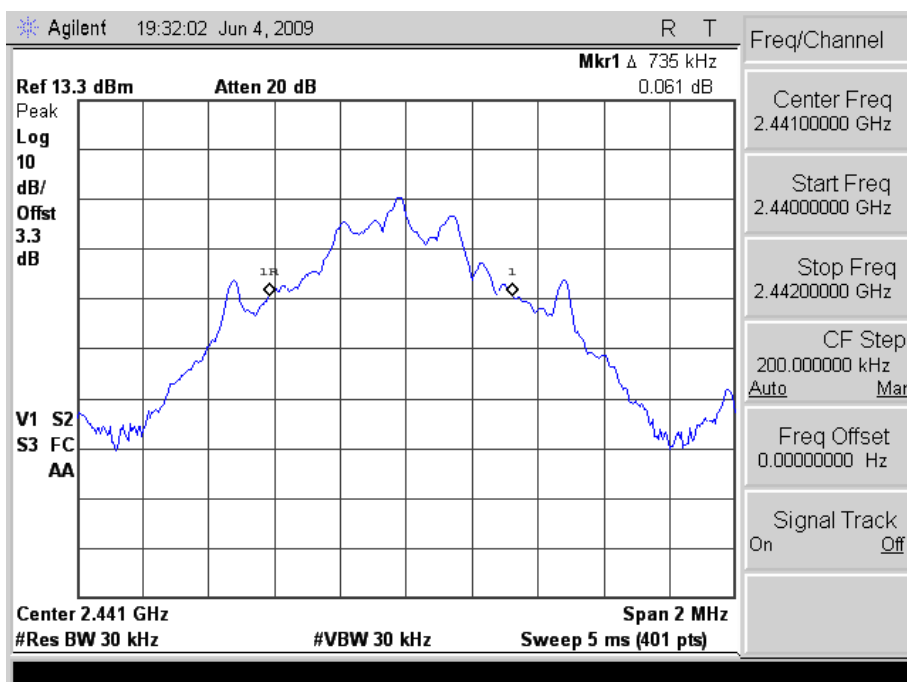
5.5 Test Graphs

5.5.1 Bluetooth 2.0 Mode:

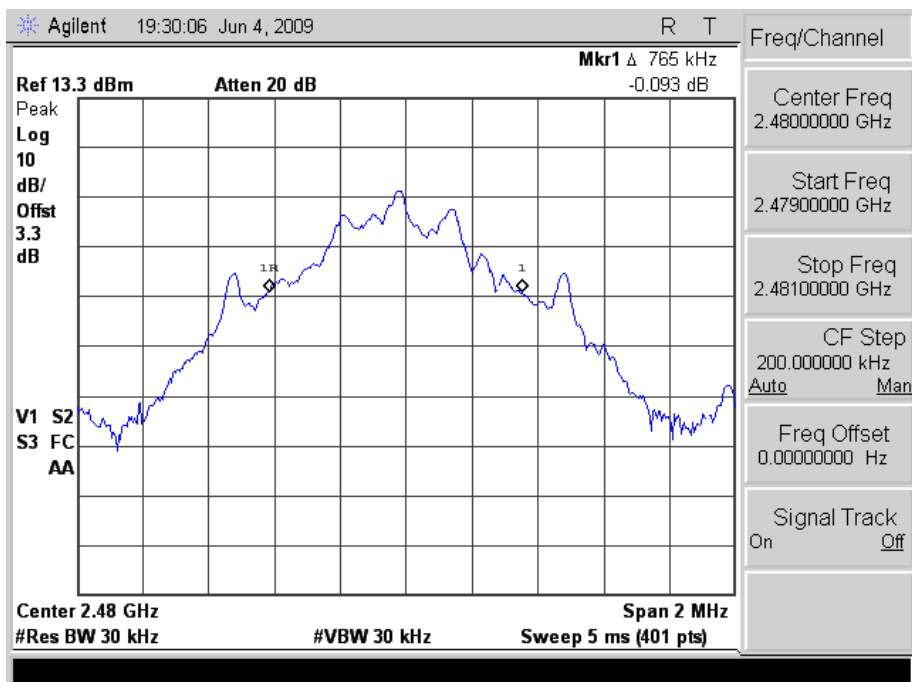
Bluetooth 2.0 CH00 (2412MHz)



Bluetooth 2.0 CH39 (2441MHz)

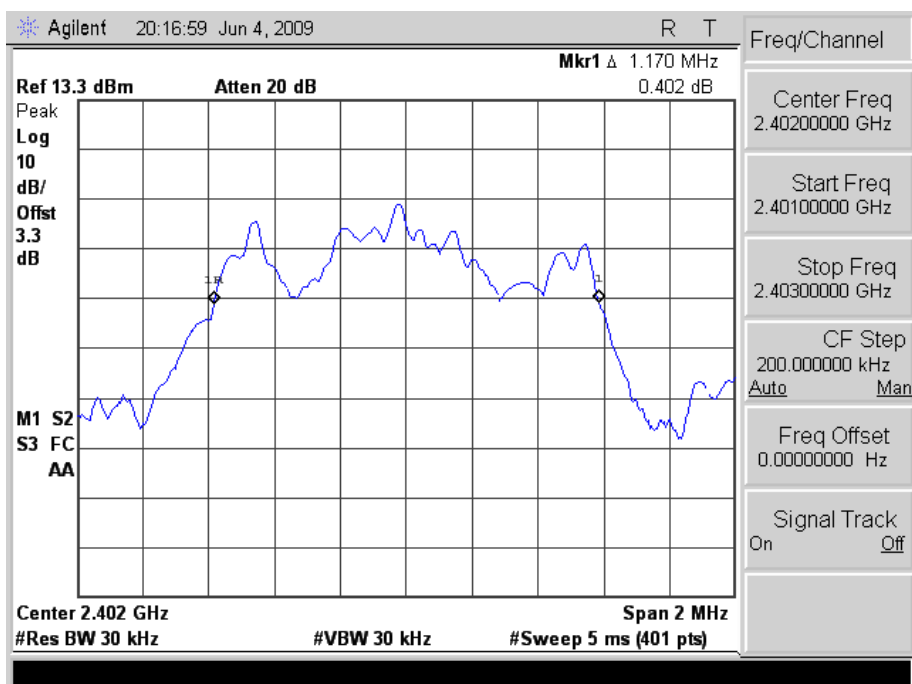


Bluetooth 2.0 CH78 (2480MHz)

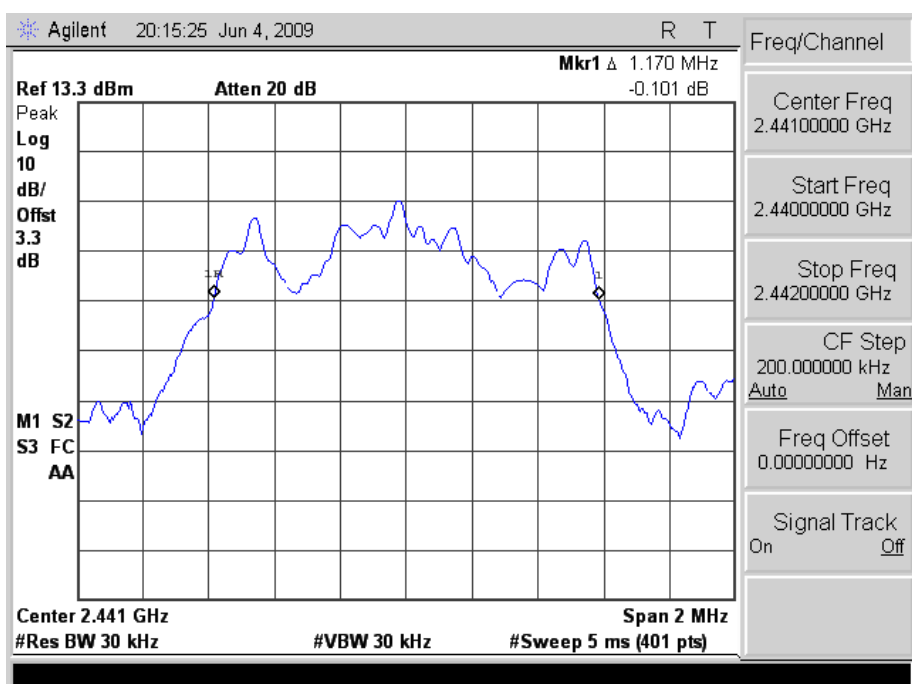


5.5.2 Bluetooth EDR Mode:

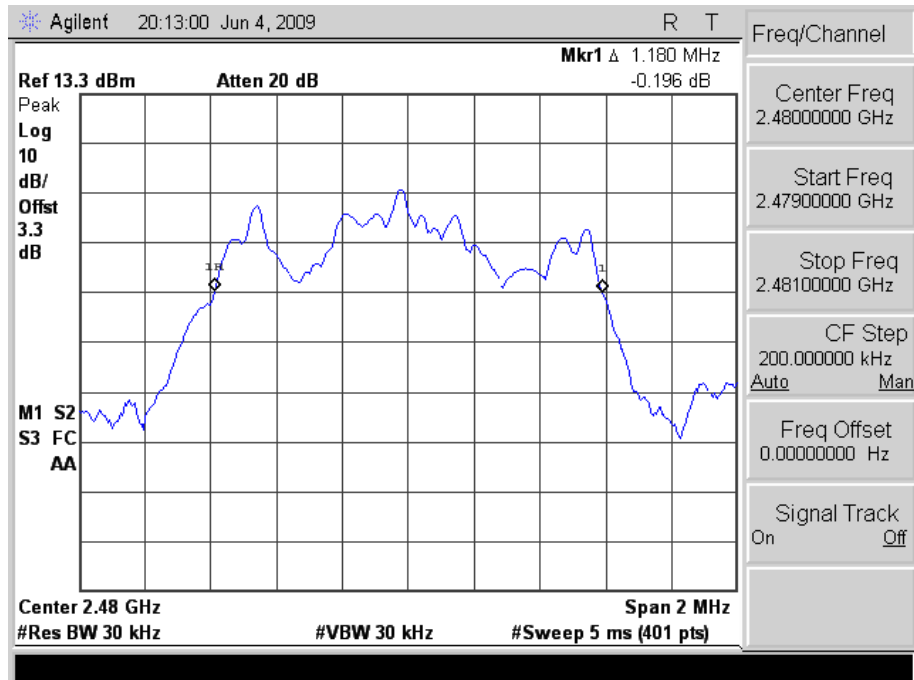
Bluetooth EDR CH00 (2412MHz)



Bluetooth EDR CH39 (2441MHz)



Bluetooth EDR CH78 (2480MHz)



6. Carrier Frequency Separation Requirements

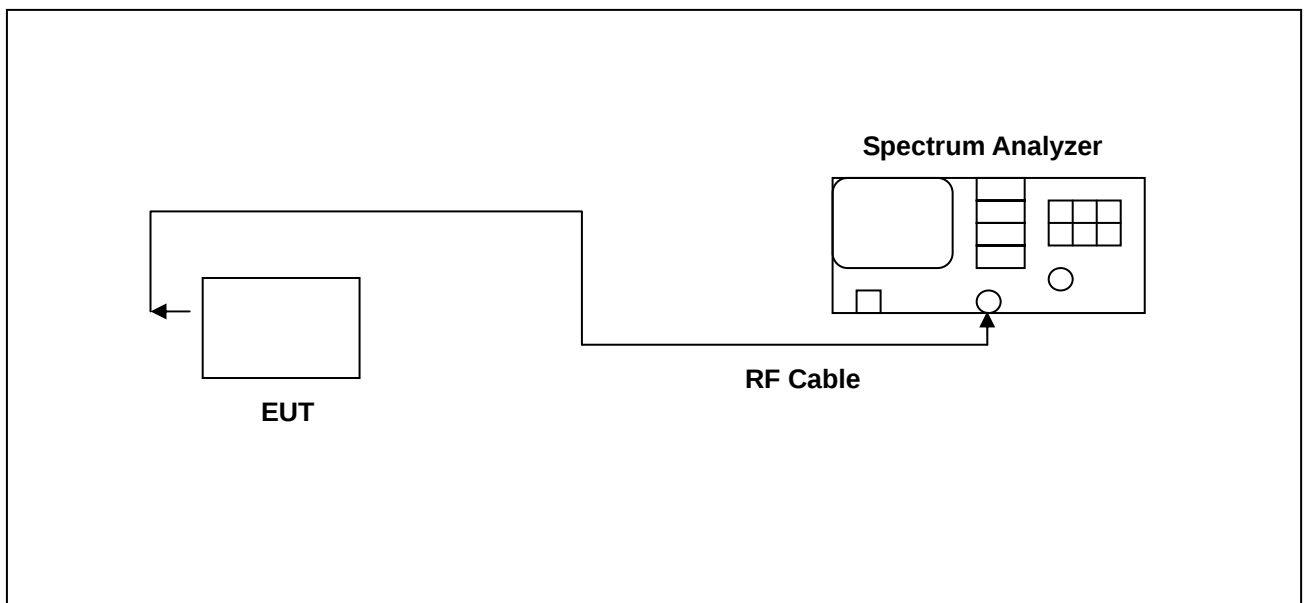
6.1 Test Condition & Setup:

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) $\geq$ 1% of the span
3. Video (or Average) Bandwidth (VBW) $\geq$ 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 14, 2009	May 14, 2010
Attenuator	RADIALL	R41572000	0603033073	NA	NA

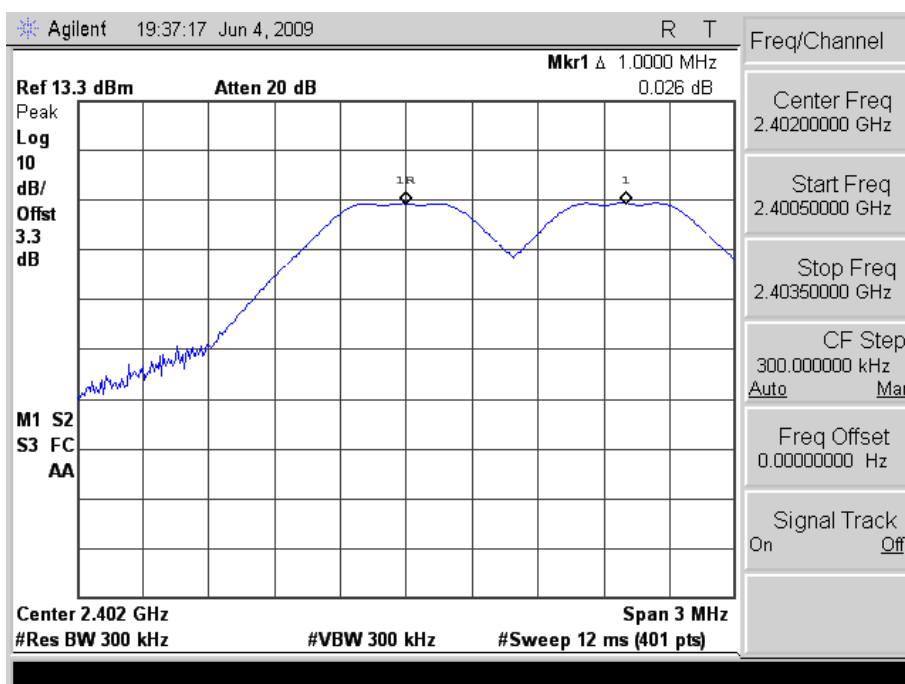
6.4 Test Result:

Carrier Frequency Separation Measure:	1 MHz
---------------------------------------	-------

6.5 Test Graphs

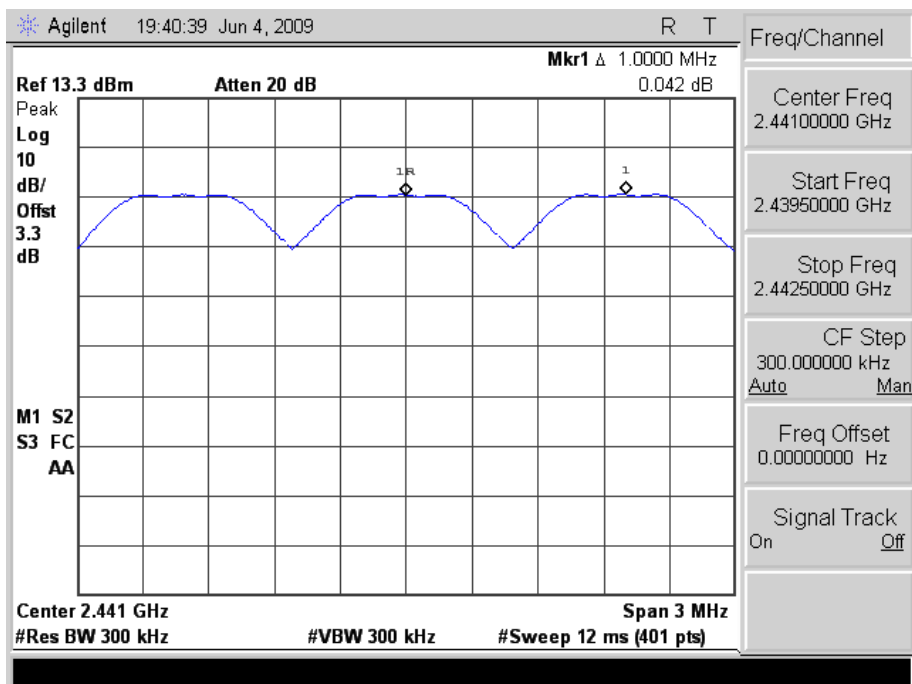
6.5.1 Bluetooth 2.0 Mode:

Bluetooth 2.0 CH00 (2412MHz)

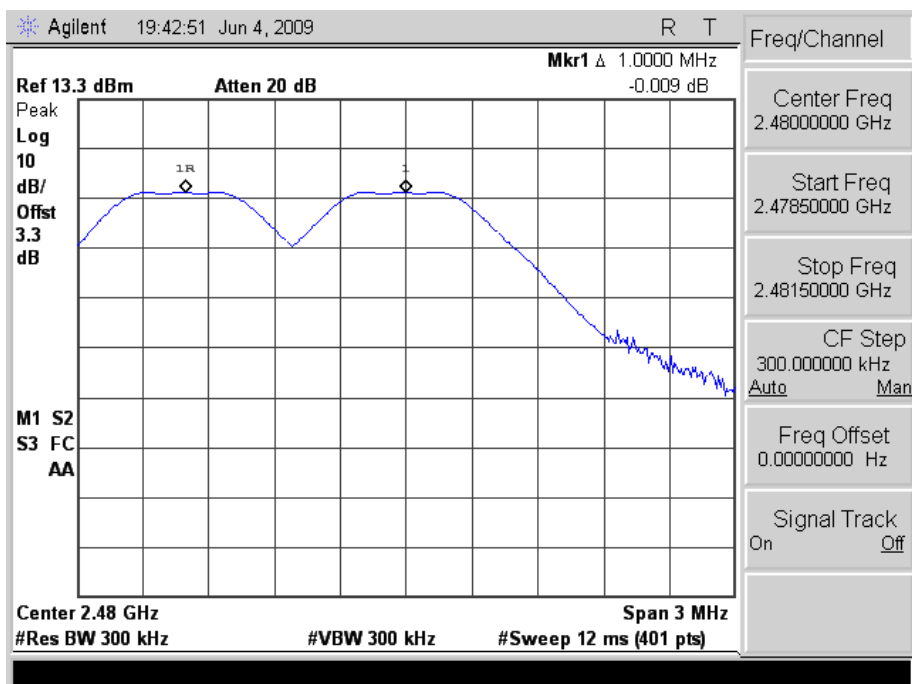




Bluetooth 2.0 CH39 (2441MHz)



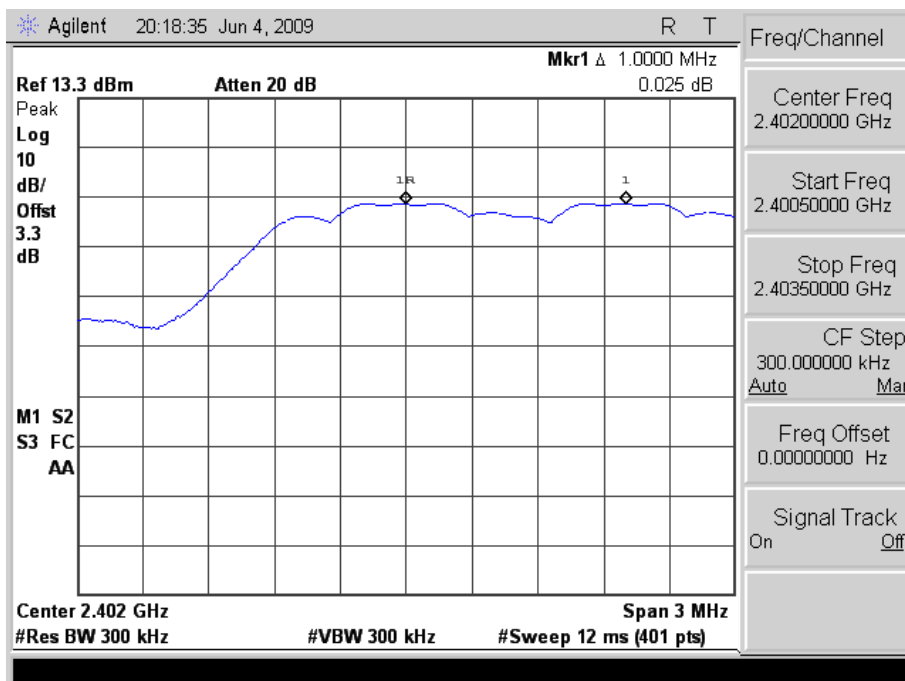
Bluetooth 2.0 CH78 (2480MHz)



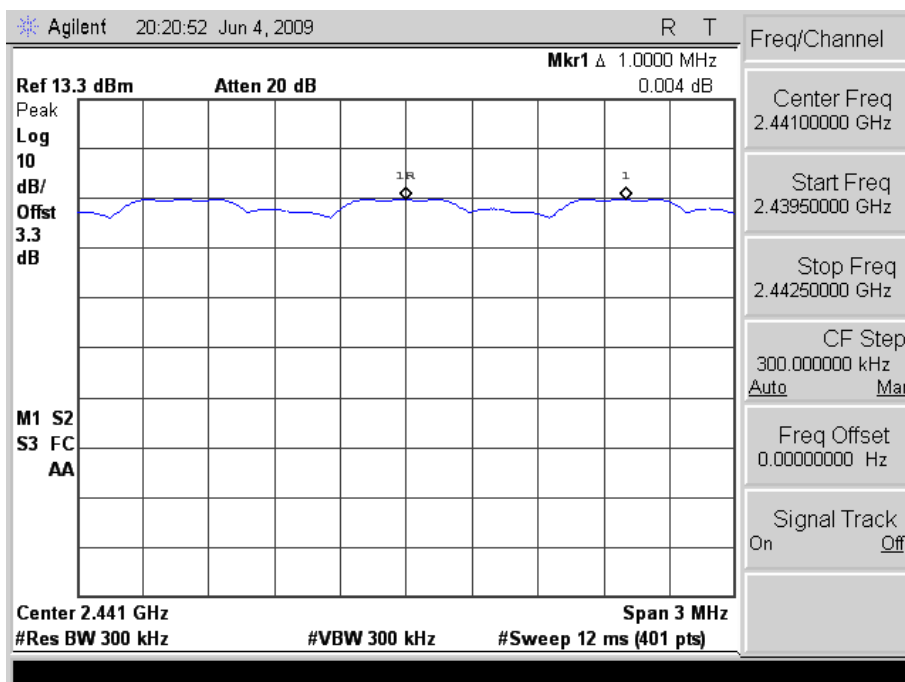


6.5.2 Bluetooth EDR Mode:

Bluetooth EDR CH00 (2412MHz)

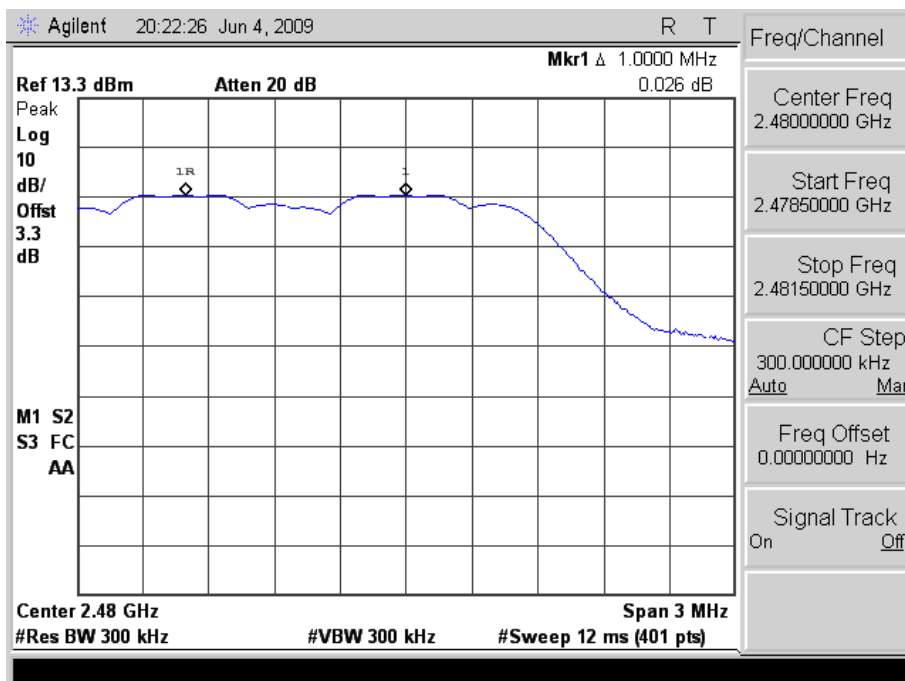


Bluetooth EDR CH39 (2441MHz)





Bluetooth EDR CH78 (2480MHz)



7. Number of Hopping Requirements

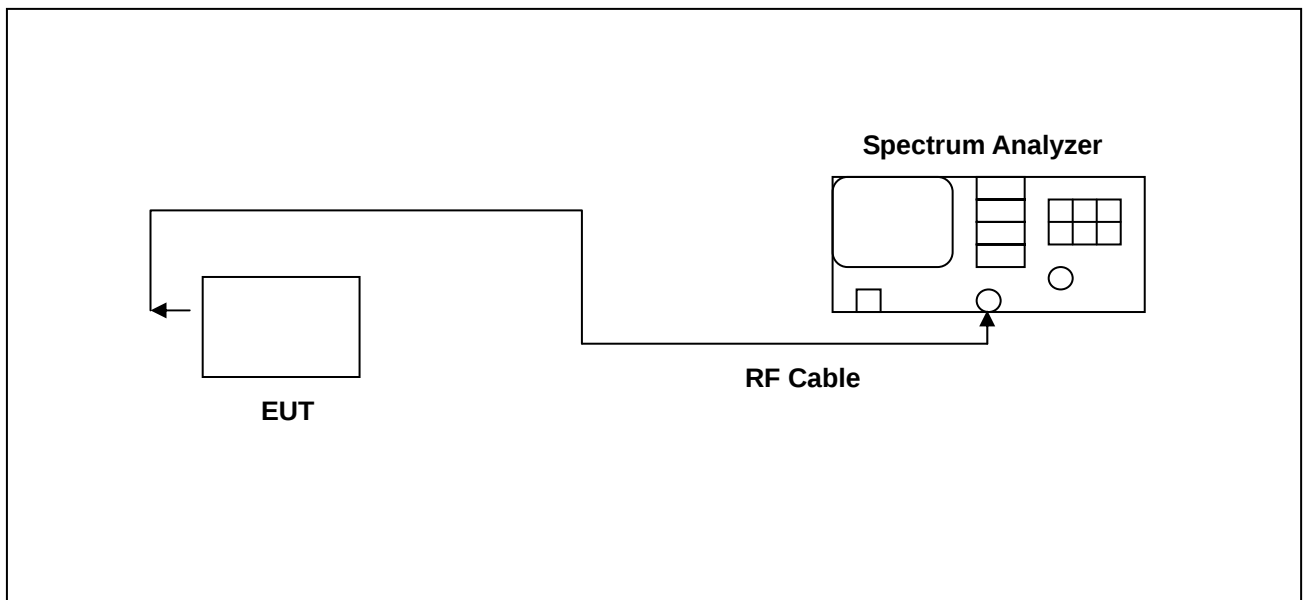
7.1 Test Condition & Setup:

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 $\geq$ 1% of the span
3. VBW $\geq$ 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 14, 2009	May 14, 2010
Attenuator	RADIALL	R41572000	0603033073	NA	NA

7.4 Test Result:

Number of Hopping Measure:	79 CH
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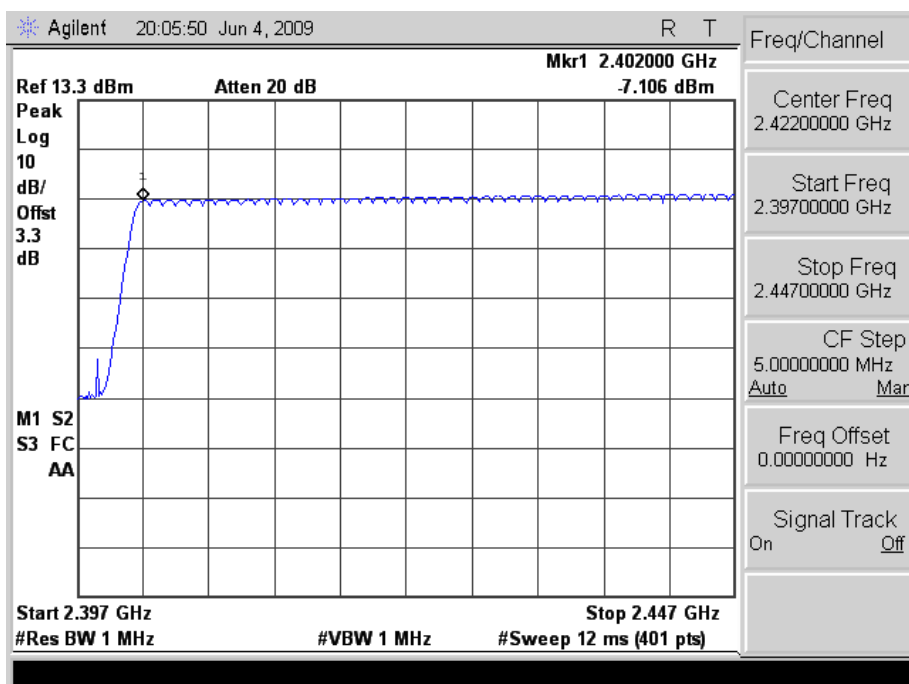
Note: Test Graphs See next page.



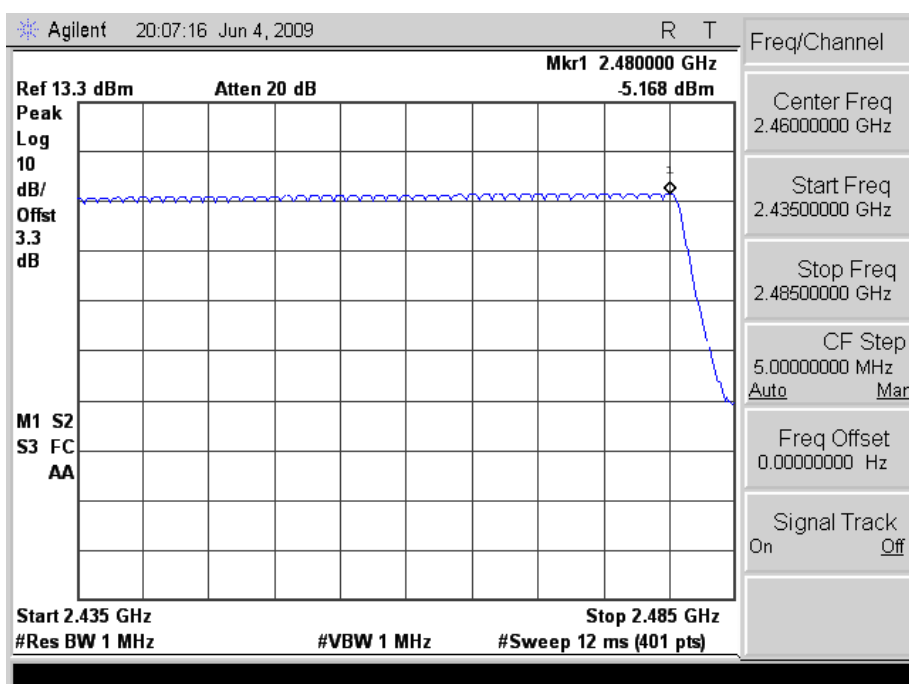
7.5 Test Graphs

7.5.1 Bluetooth 2.0 Mode:

Bluetooth 2.0 Mode CH0~CH39



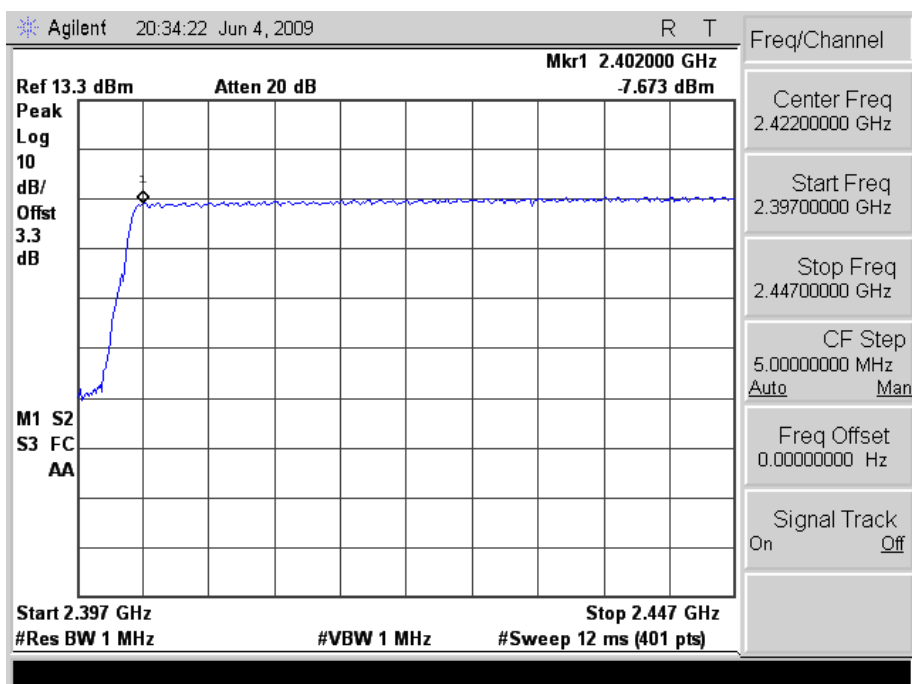
Bluetooth 2.0 Mode CH40~CH78



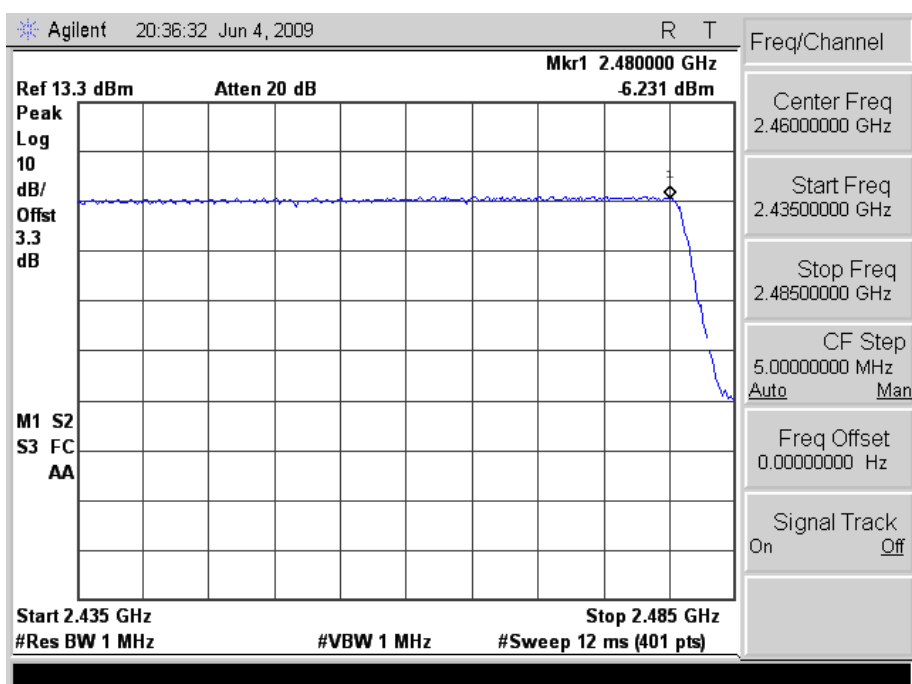


7.5.2 Bluetooth EDR Mode:

Bluetooth EDR Mode CH0~CH39



Bluetooth EDR Mode CH40~CH78



8. Time of Occupancy (Dwell Time) Requirements

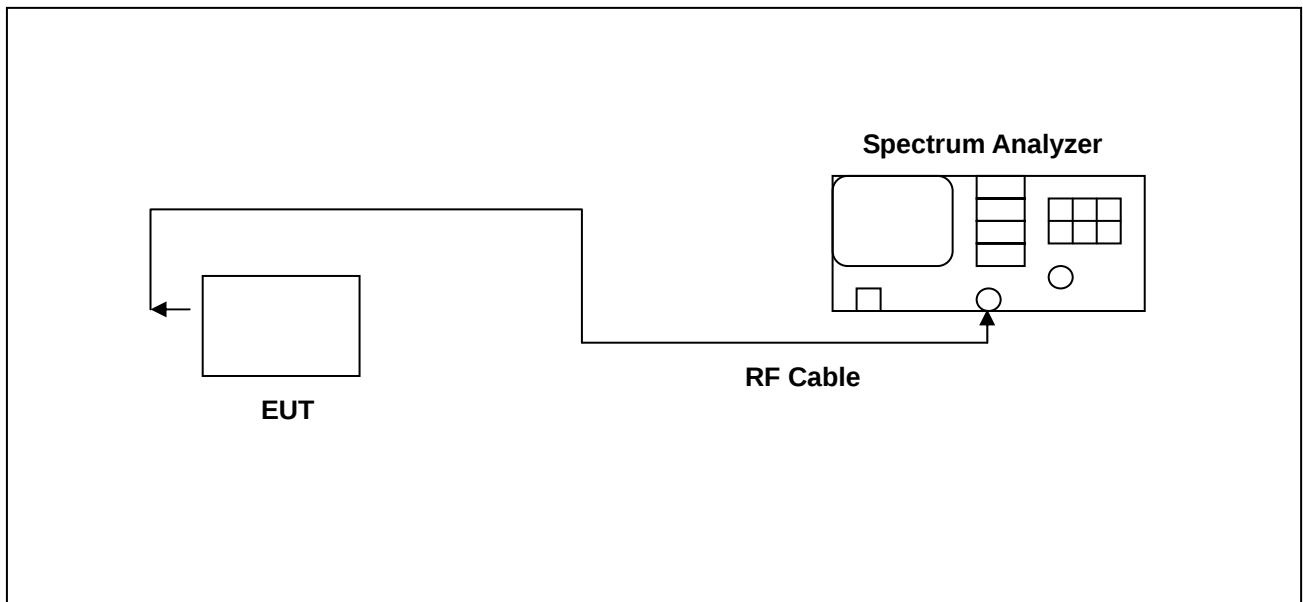
8.1 Test Condition & Setup:

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 $\geq$ 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 14, 2009	May 14, 2010
Attenuator	RADIALL	R41572000	0603033073	NA	NA



8.4 Test Result

8.4.1 Bluetooth 2.0 Mode:

Bluetooth 2.0 DH1 Mode

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

Bluetooth 2.0 DH3 Mode

Cycle Calculate	$79\text{CH} * 0.4 = 31.6 \text{ (sec)}$
The EUT Hopping Number per Sec	1600 times/sec
Each Channel Dwell Times per Sec	$400/79\text{CH}=5.1(\text{times/sec})$
Each Channel Dwell Times (1)	1.660 ms (sec)
Each Channel Dwell Times on Cycle(2)	$31.6*5.1=161.16(\text{times})$
Dwell Times on Cycle (1) * (2)	267.5265 ms (sec)
LIMIT(msec)	≤ 400

Bluetooth 2.0 DH5 Mode

Cycle Calculate	$79\text{CH} * 0.4 = 31.6 \text{ (sec)}$
The EUT Hopping Number per Sec	1600 times/sec
Each Channel Dwell Times per Sec	$266.7/79\text{CH}=3.37 \text{ (times/sec)}$
Each Channel Dwell Times (1)	2.910 ms (sec)
Each Channel Dwell Times on Cycle(2)	$31.6*3.37=106.492 \text{ (times)}$
Dwell Times on Cycle (1) * (2)	309.8917 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	$79CH * 0.4 = 31.6 \text{ (sec)}$
The EUT Hopping Number per Sec	1600 times/sec
Each Channel Dwell Times per Sec	$800/79CH = 10.13(\text{times/sec})$
Each Channel Dwell Times (1)	0.270 ms (sec)
Each Channel Dwell Times on Cycle(2)	$31.6 * 10.13 = 320.108(\text{times})$
Dwell Times on Cycle (1) * (2)	86.4291 ms (sec)
LIMIT(msec)	≤ 400

Bluetooth EDR 3DH3 Mode

Cycle Calculate	$79CH * 0.4 = 31.6 \text{ (sec)}$
The EUT Hopping Number per Sec	1600 times/sec
Each Channel Dwell Times per Sec	$400/79CH=5.1(\text{times/sec})$
Each Channel Dwell Times (1)	0.68 ms (sec)
Each Channel Dwell Times on Cycle(2)	$31.6*5.1=161.16(\text{times})$
Dwell Times on Cycle (1) * (2)	109.5888 ms (sec)
LIMIT(msec)	≤ 400

Bluetooth EDR 3DH5 Mode

Cycle Calculate	$79CH * 0.4 = 31.6 \text{ (sec)}$
The EUT Hopping Number per Sec	1600 times/sec
Each Channel Dwell Times per Sec	$266.7/79CH=3.37 \text{ (times/sec)}$
Each Channel Dwell Times (1)	1.110 ms (sec)
Each Channel Dwell Times on Cycle(2)	$31.6*3.37=106.492 \text{ (times)}$
Dwell Times on Cycle (1) * (2)	118.2061 ms (sec)
LIMIT(msec)	≤ 400

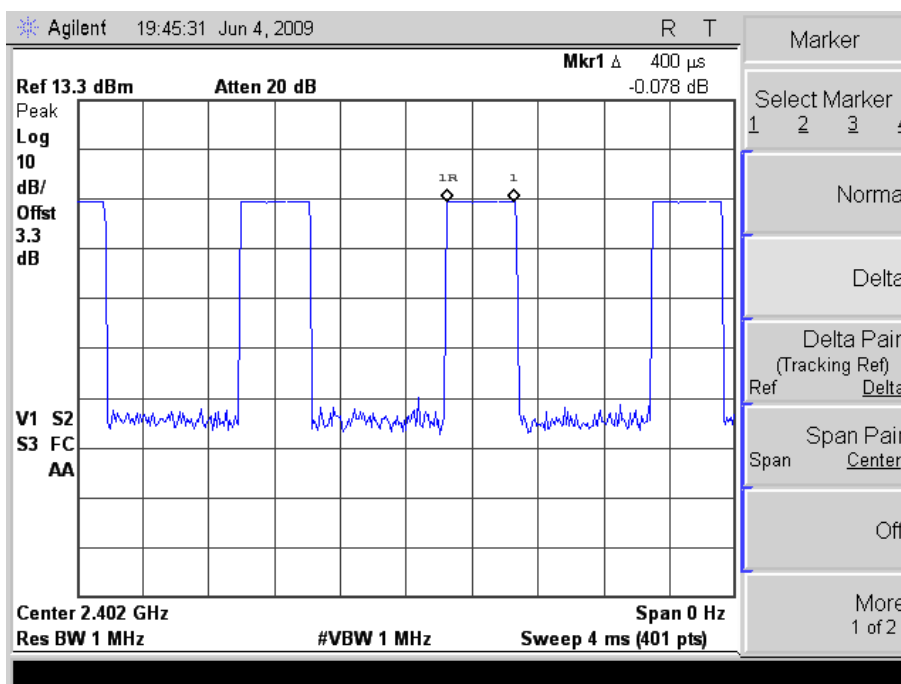
Note: RB=1MHz; VB=1MHz; SPAN=0MHz; Sweep Time=20msec



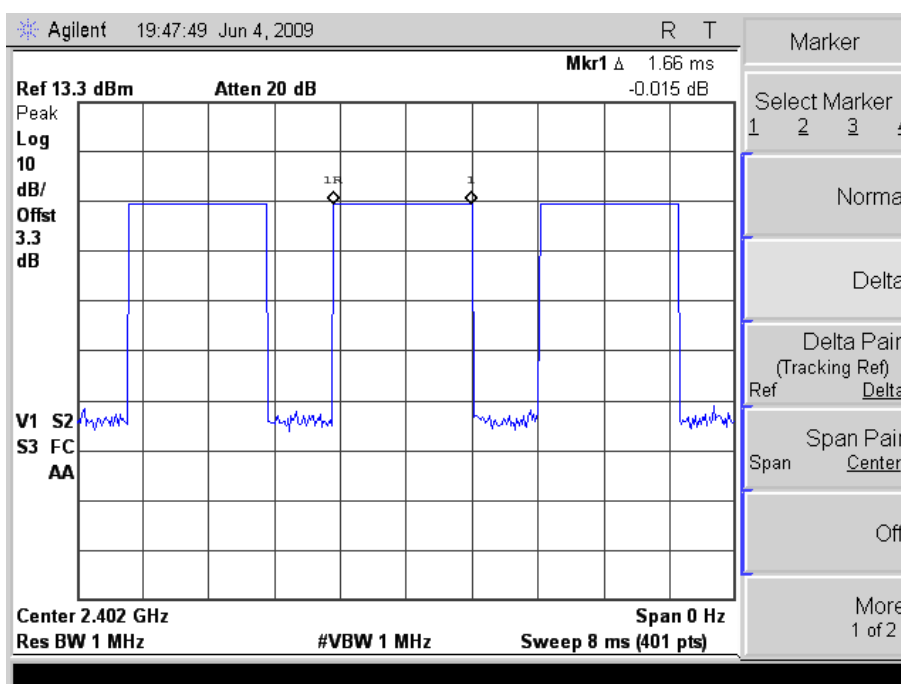
8.5 Test Graphs

8.5.1 Bluetooth 2.0 Mode:

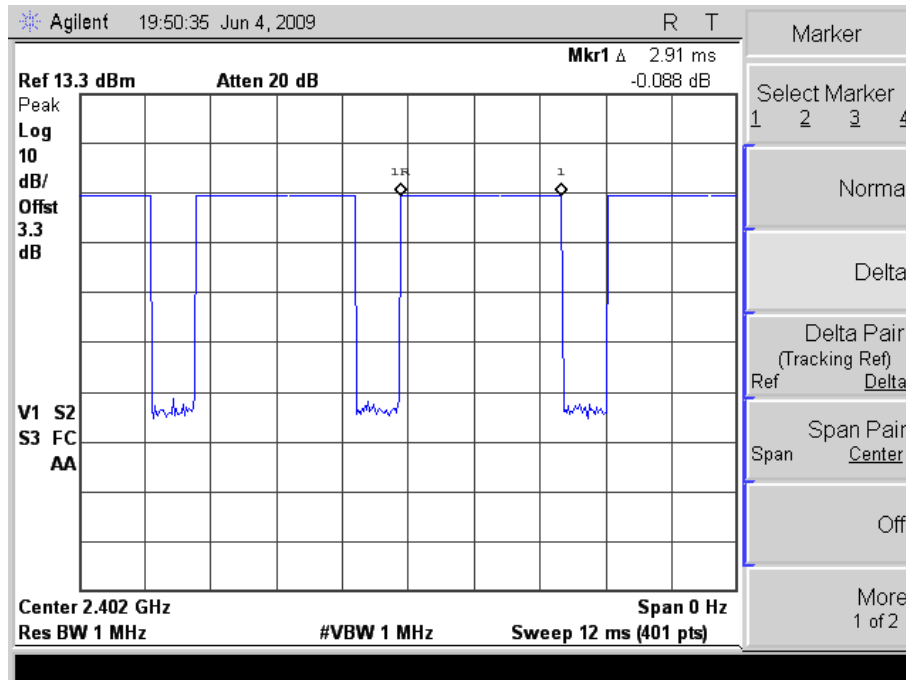
Bluetooth 2.0 DH1



Bluetooth 2.0 DH3



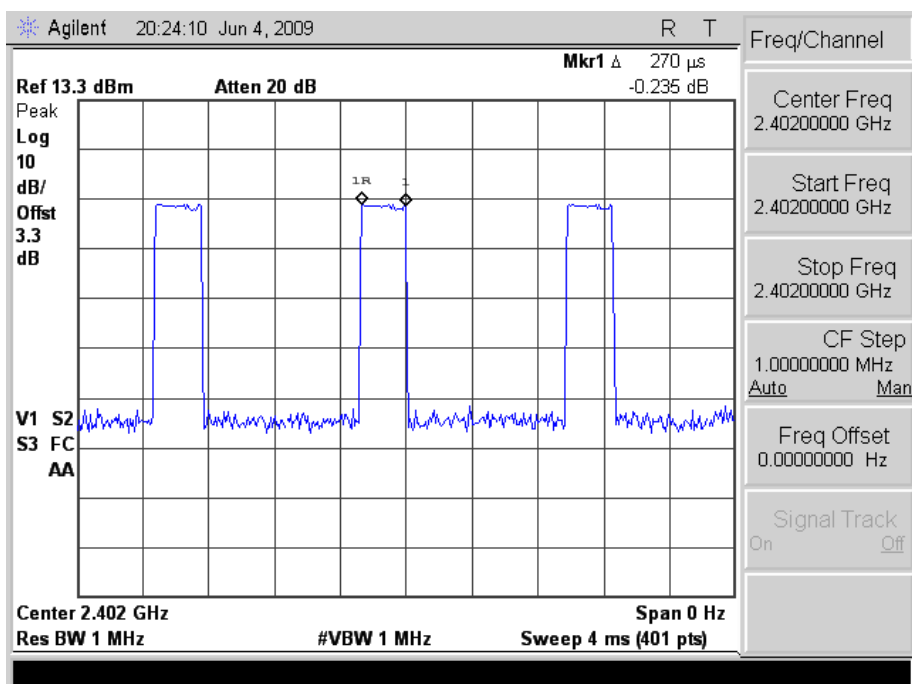
Bluetooth 2.0 DH5



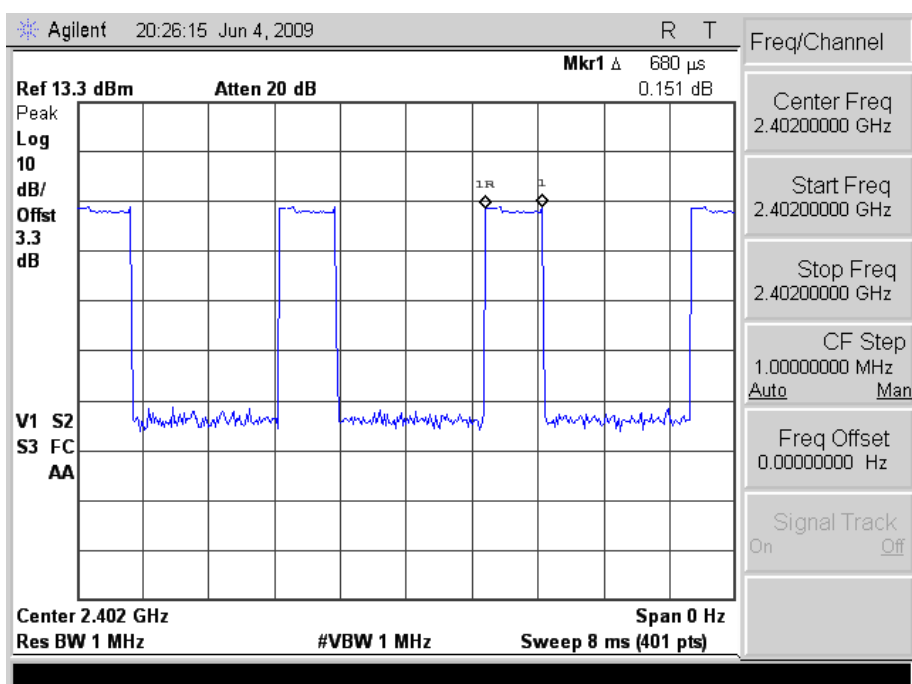


8.5.2 Bluetooth EDR Mode:

Bluetooth EDR 3DH1

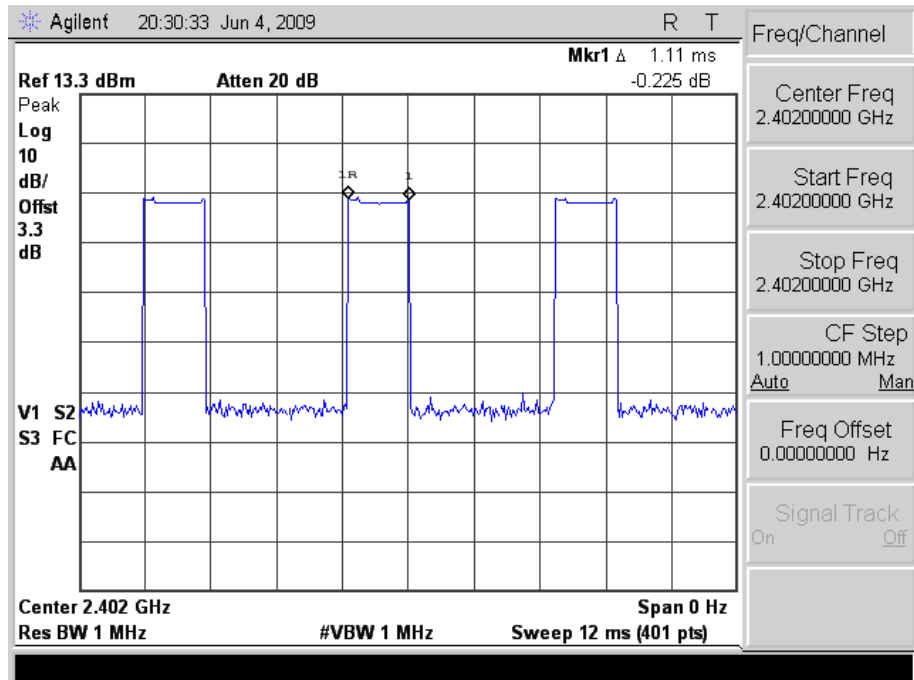


Bluetooth EDR 3DH3





Bluetooth EDR DH5



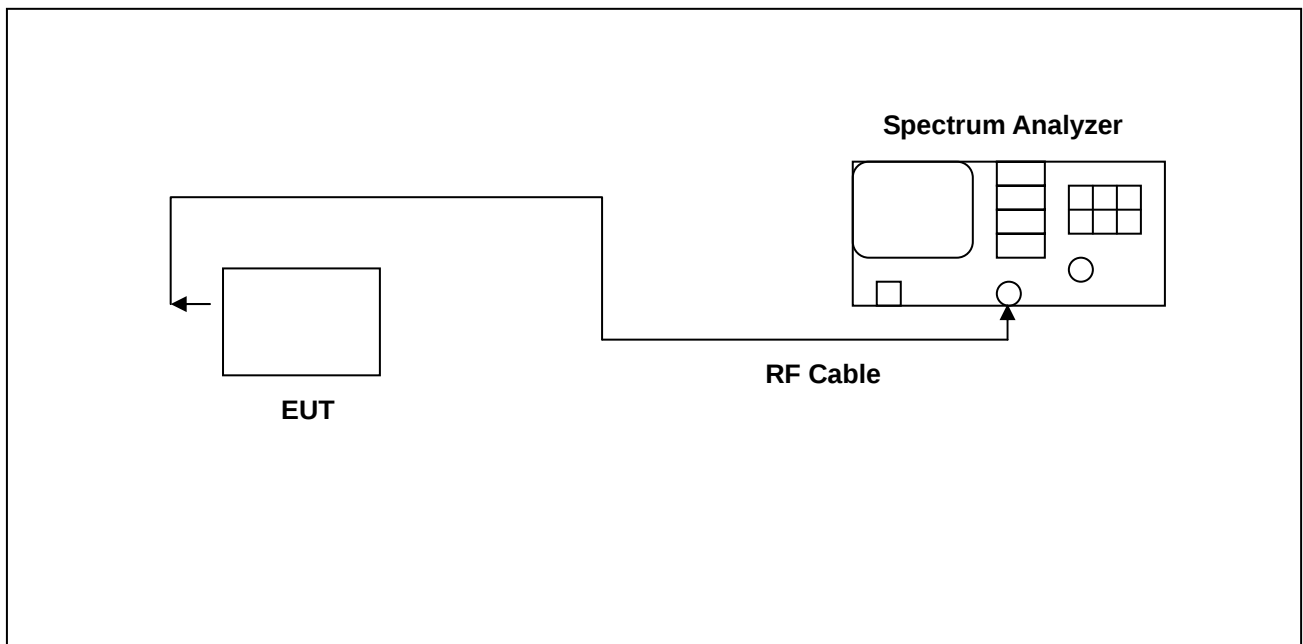
9. Out of Band Conducted Emissions Requirements

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 14, 2009	May 14, 2010



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 : Partner Tech Corp.
Model No : EM-100
EUT : E-Menu
Test Mode : Bluetooth 2.0
Test Date : 06/04/2009
Please refer to next page of detail testing data.



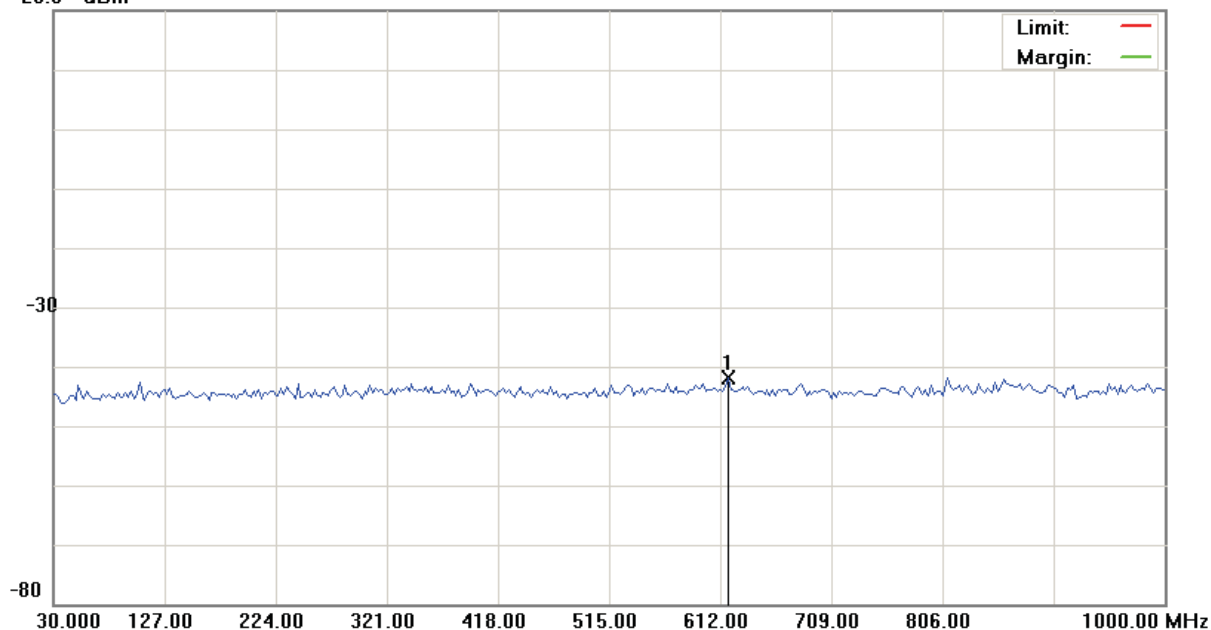
File :EM-100(20db)

Data :#1

Date: 2009/6/4

Time: 下午 08:39:26

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT

Note: CH00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	619.2750	-42.78	1.00	-41.78			peak		

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



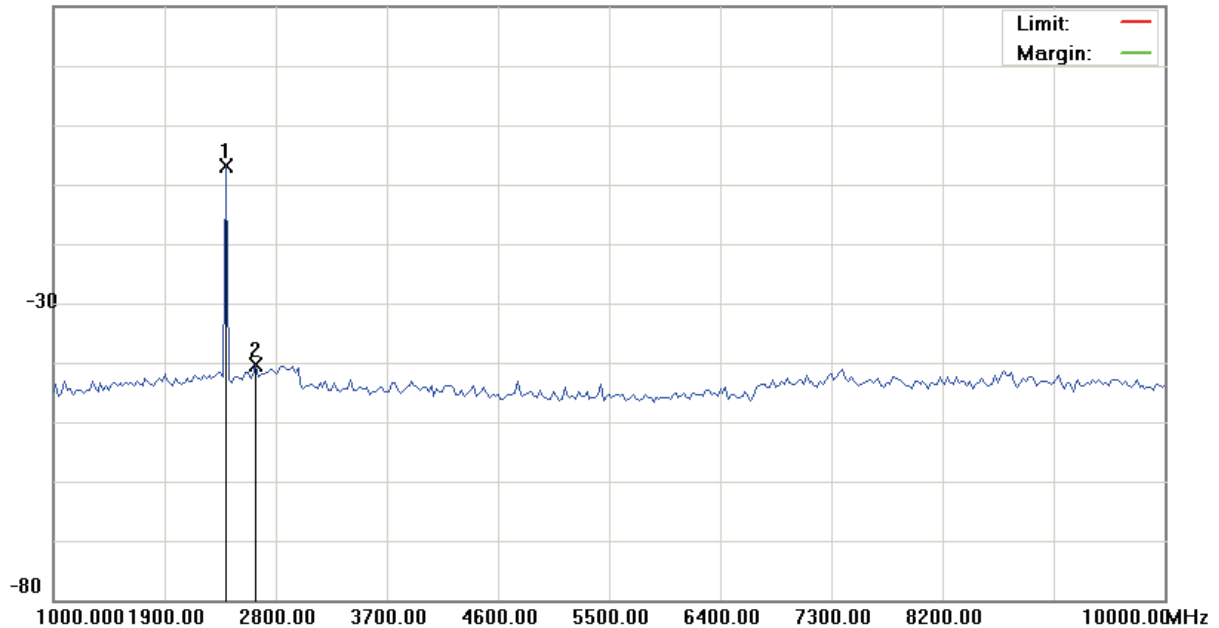
File :EM-100(20db)

Data :#2

Date: 2009/6/4

Time: 下午 08:39:39

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT

Note: CH00

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2395.000	-7.95	1.01	-6.94			peak		
2		2642.500	-41.45	1.01	-40.44			peak		

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



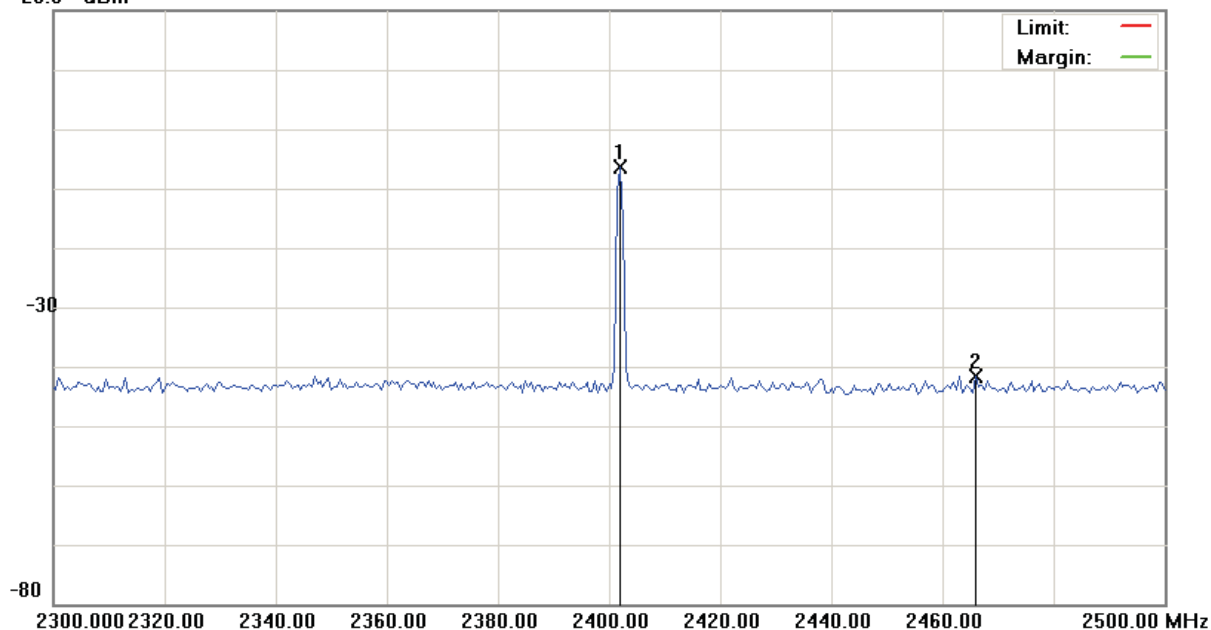
File :EM-100(20db)

Data :#3

Date: 2009/6/4

Time: 下午 08:39:52

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT

Note: CH00

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2402.000	-7.28	1.01	-6.27			peak		
2		2466.000	-42.59	1.01	-41.58			peak		

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



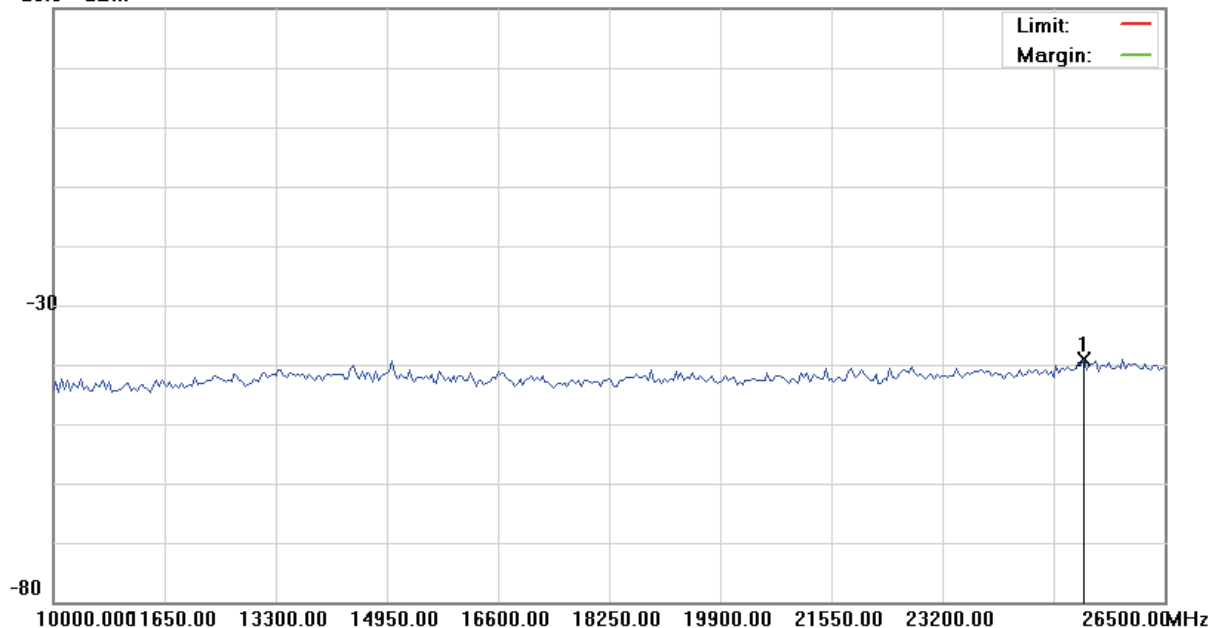
File :EM-100(20db)

Data :#4

Date: 2009/6/4

Time: 下午 08:40:05

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT

Note: CH00

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	25303.750	-40.30	1.11	-39.19			peak		

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



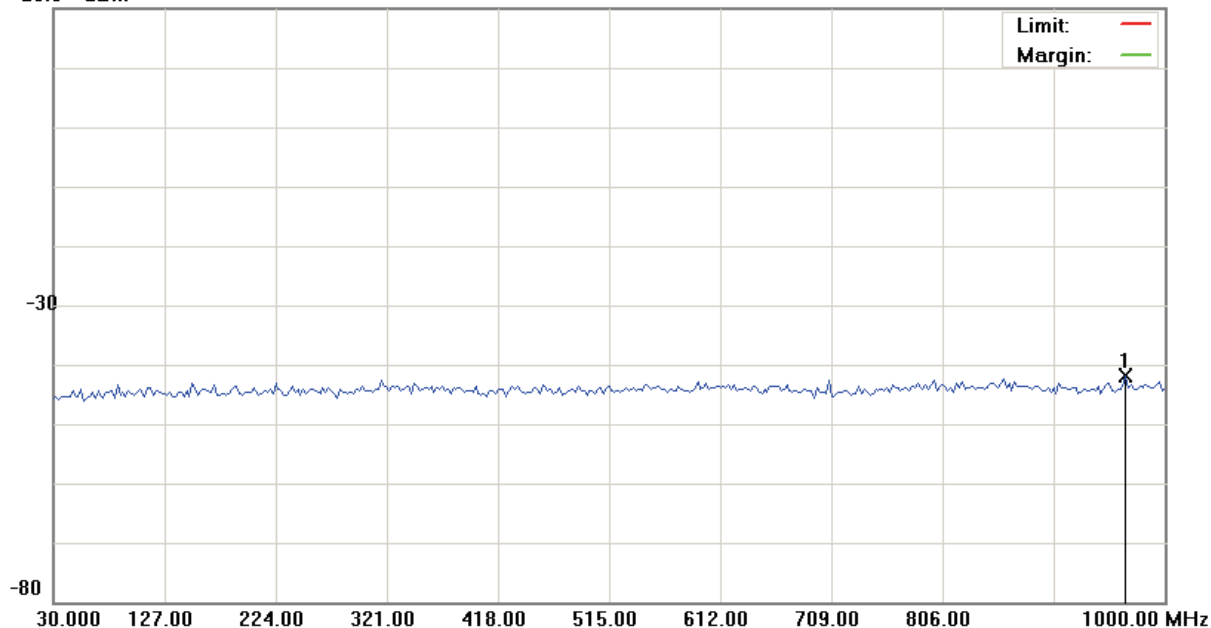
File :EM-100(20db)

Data :#5

Date: 2009/6/4

Time: 下午 08:41:17

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT

Note: CH39

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	966.0500	-42.96	1.00	-41.96			peak		

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



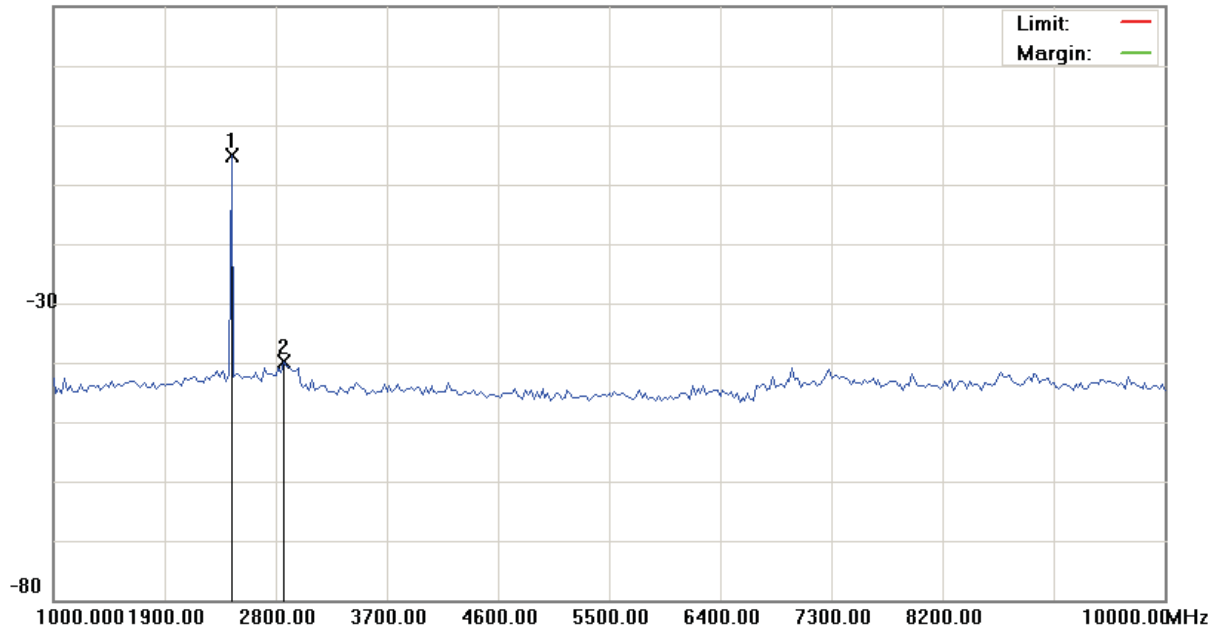
File :EM-100(20db)

Data :#6

Date: 2009/6/4

Time: 下午 08:41:30

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT

Note: CH39

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2440.000	-6.15	1.01	-5.14			peak		
2		2867.500	-40.90	1.01	-39.89			peak		

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



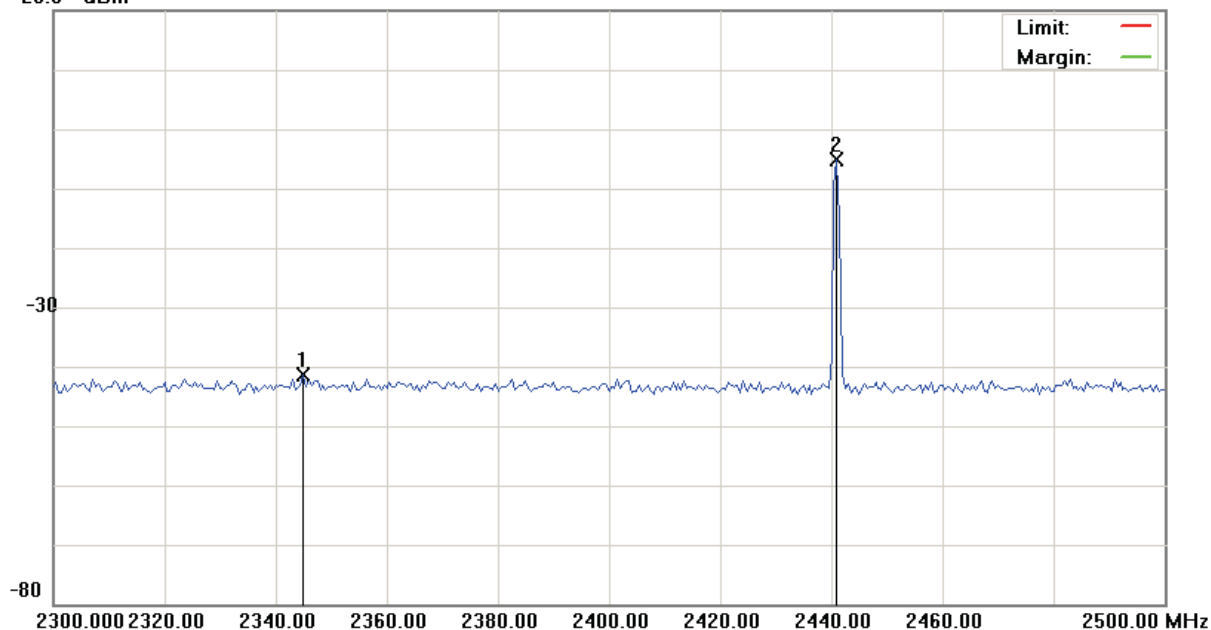
File :EM-100(20db)

Data :#7

Date: 2009/6/4

Time: 下午 08:41:43

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT

Note: CH39

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2345.000	-42.29	1.01	-41.28			peak		
2	*	2441.000	-6.03	1.01	-5.02			peak		

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



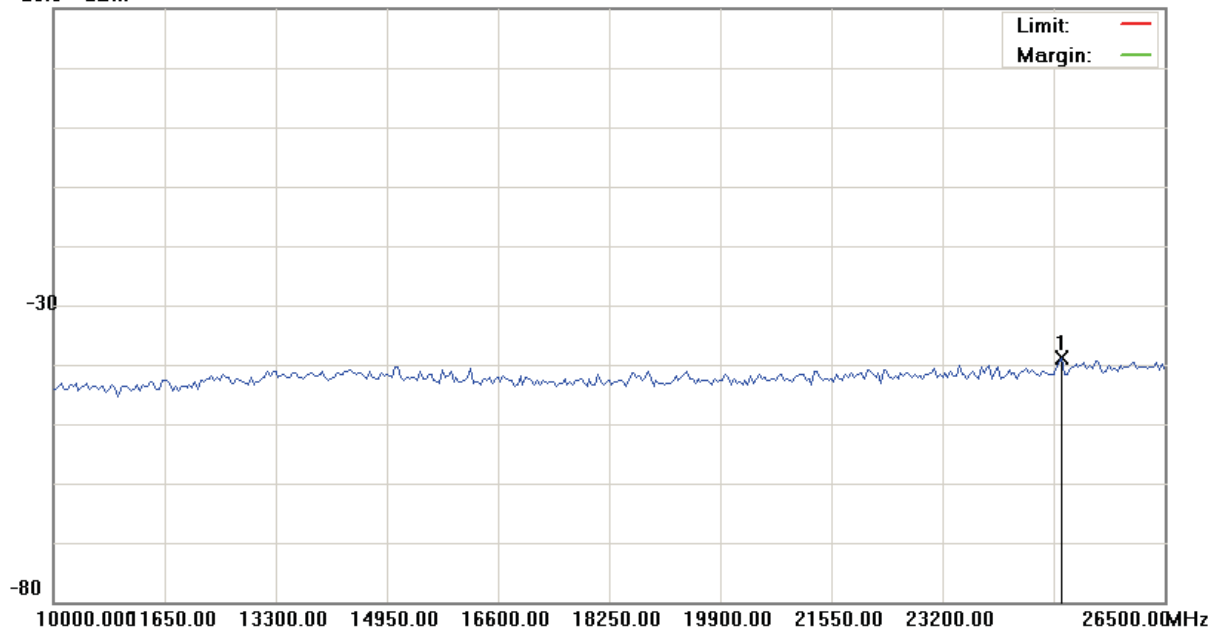
File :EM-100(20db)

Data :#8

Date: 2009/6/4

Time: 下午 08:41:56

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT

Note: CH39

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	24973.750	-39.89	1.10	-38.79			peak		

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



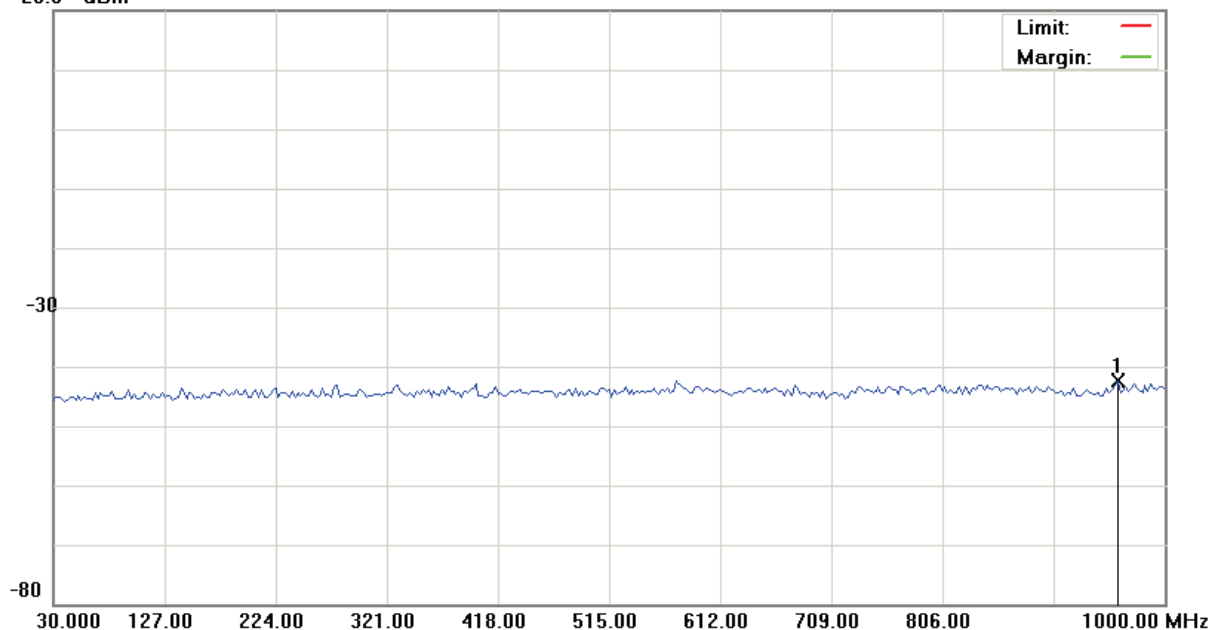
File :EM-100(20db)

Data :#9

Date: 2009/6/4

Time: 下午 08:43:16

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT

Note: CH78

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree
1	*	958.7750	-43.43	1.00	-42.43			peak		
										Comment

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



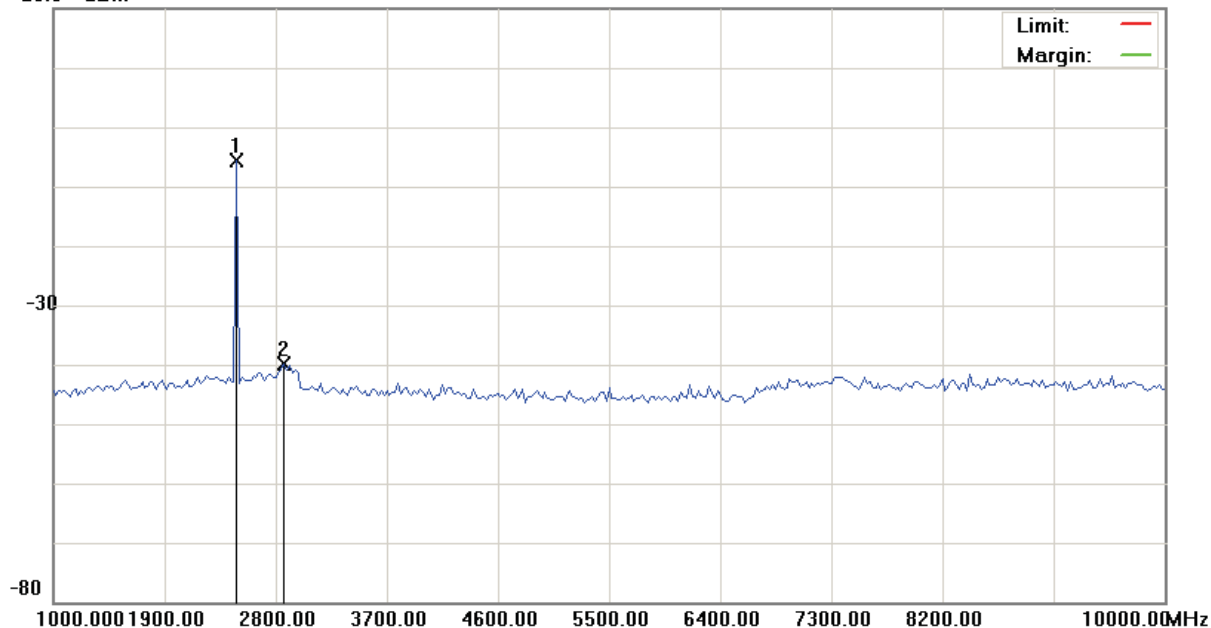
File :EM-100(20db)

Data :#10

Date: 2009/6/4

Time: 下午 08:43:29

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT

Note: CH78

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2485.000	-6.55	1.01	-5.54			peak		
2		2867.500	-40.79	1.01	-39.78			peak		

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



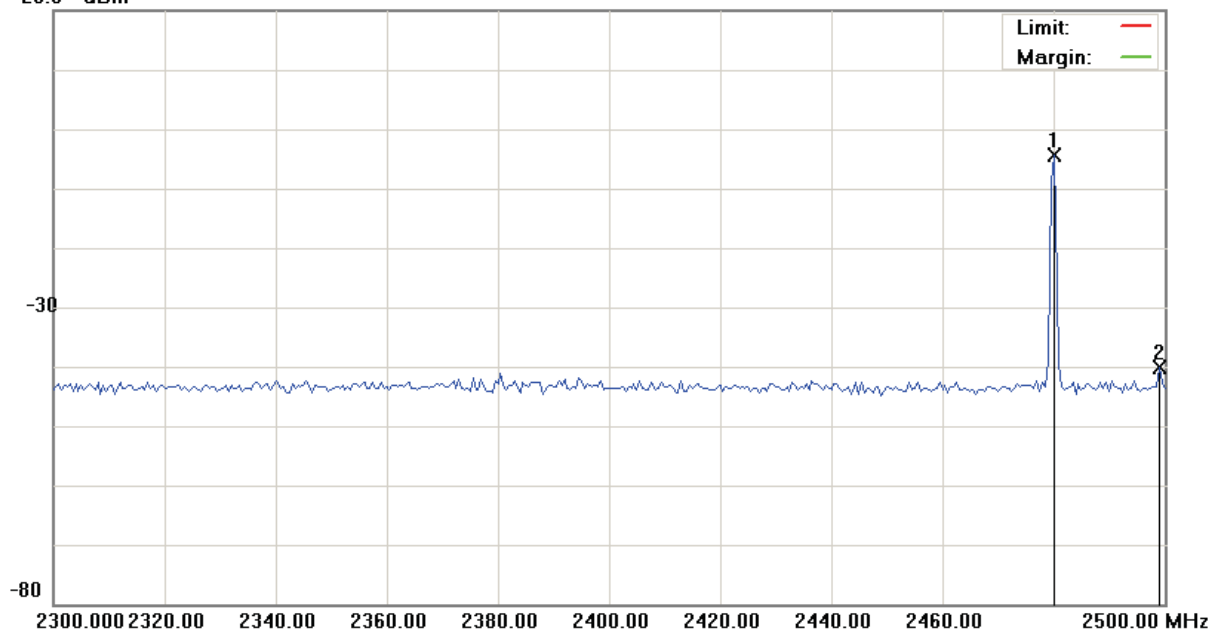
File :EM-100(20db)

Data :#11

Date: 2009/6/4

Time: 下午 08:43:42

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT

Note: CH78

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2480.000	-5.40	1.01	-4.39			peak		
2		2499.000	-41.13	1.01	-40.12			peak		

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



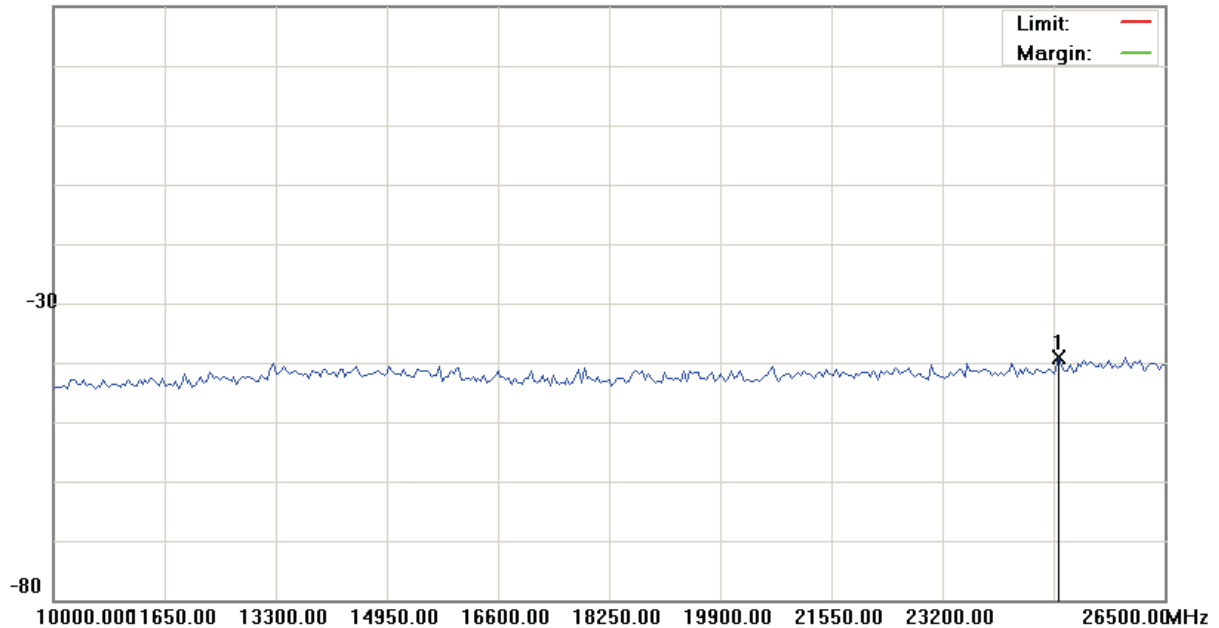
File :EM-100(20db)

Data :#12

Date: 2009/6/4

Time: 下午 08:43:55

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT

Note: CH78

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	24932.500	-40.13	1.10	-39.03			peak		

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



9.5.2 Bluetooth EDR Mode:

Applicant : Partner Tech Corp.

Model No : EM-100

EUT : E-Menu

Test Mode : Bluetooth EDR

Test Date : 06/04/2009

Please refer to next page of detail testing data.



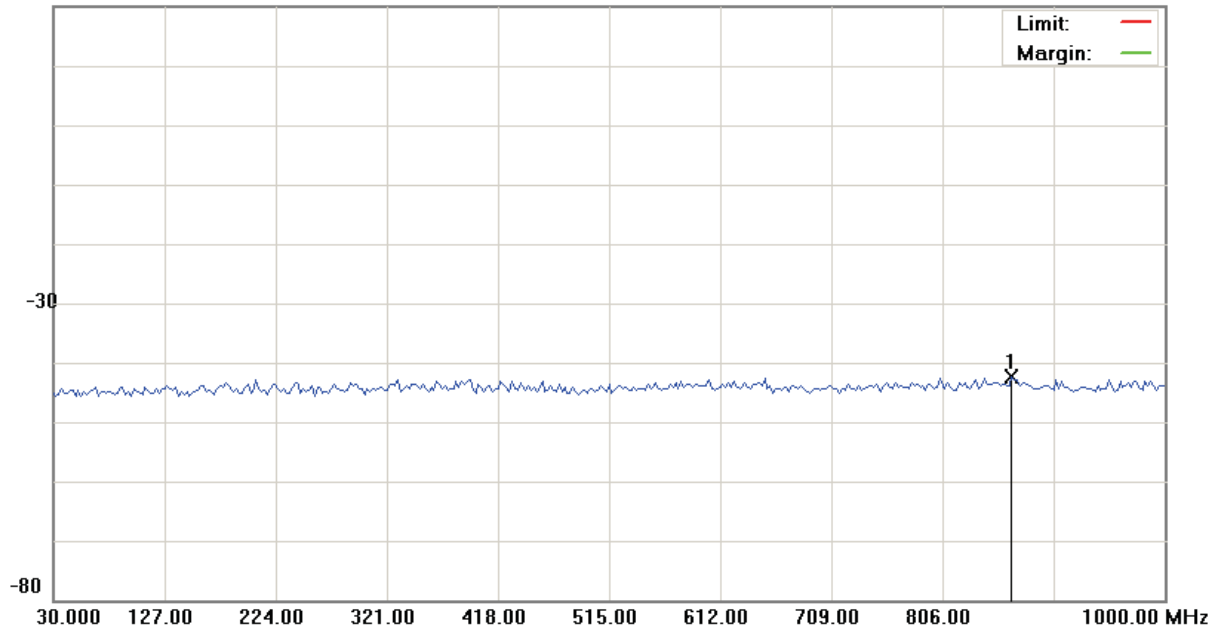
File :EM-100(20db)

Data :#1

Date: 2009/6/4

Time: 下午 08:45:39

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT+EDR

Note: CH00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	866.6250	-43.32	1.00	-42.32			peak		

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

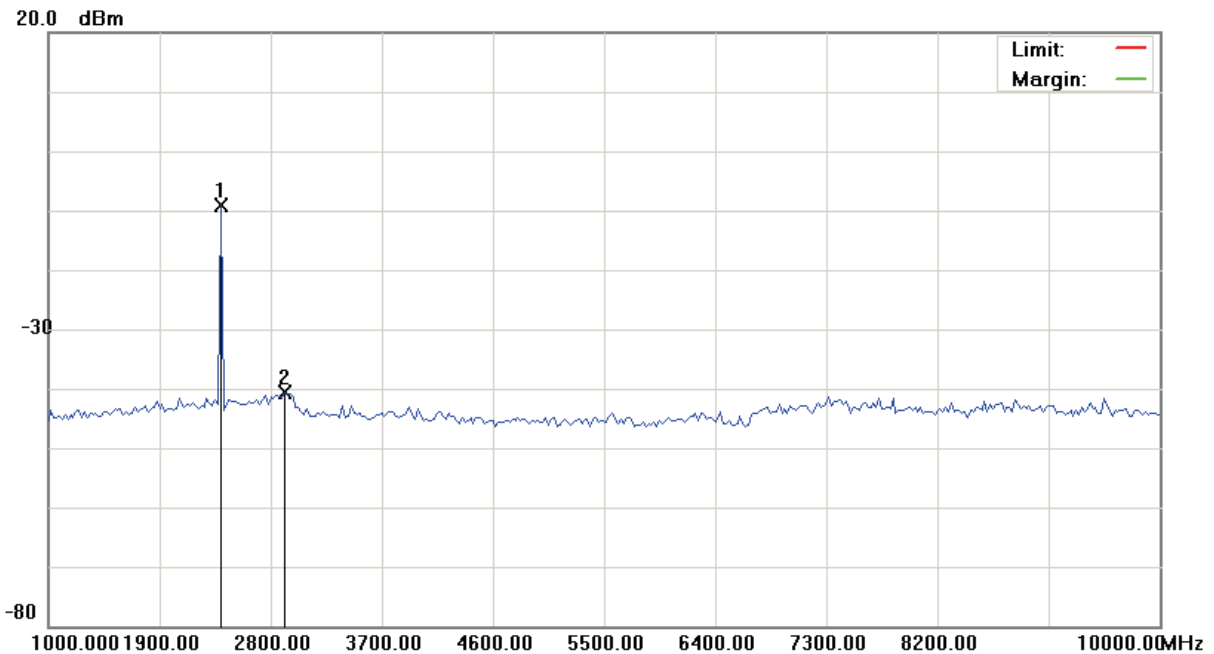


File :EM-100(20db)

Data :#2

Date: 2009/6/4

Time: 下午 08:45:52



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT+EDR

Note: CH00

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2395.000	-10.16	1.01	-9.15					peak
2		2912.500	-41.74	1.01	-40.73					peak

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

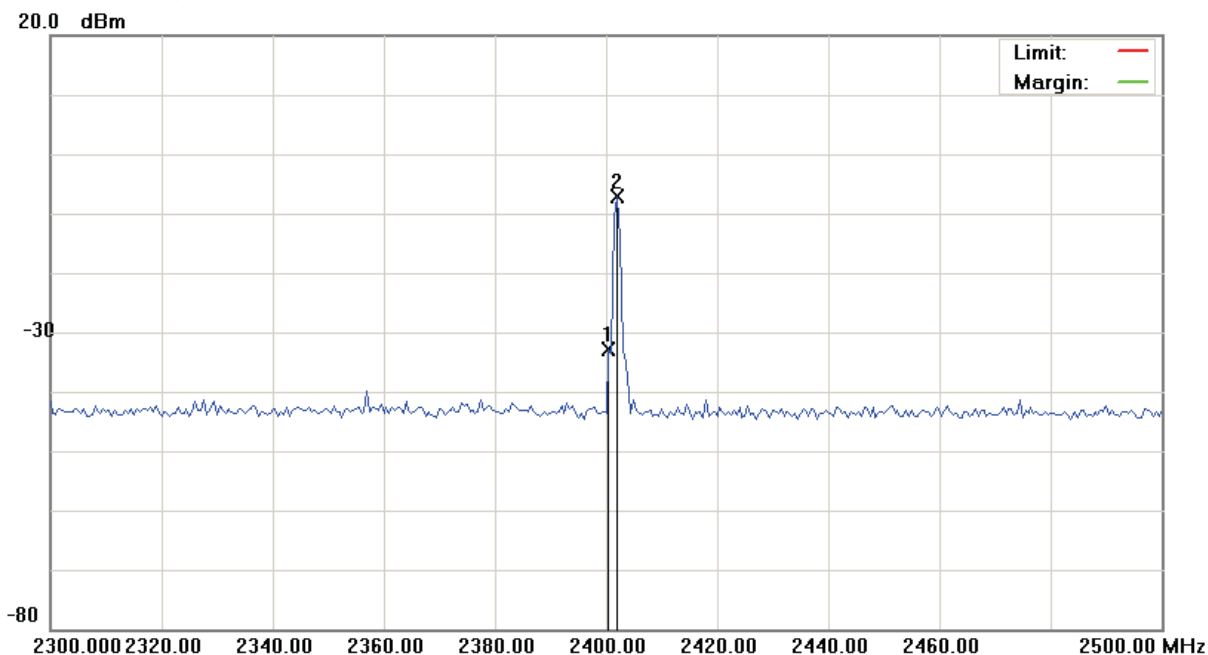


File :EM-100(20db)

Data :#3

Date: 2009/6/4

Time: 下午 08:46:05



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT+EDR

Note: CH00

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2400.500	-33.89	1.01	-32.88			peak		
2	*	2402.000	-8.22	1.01	-7.21			peak		

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



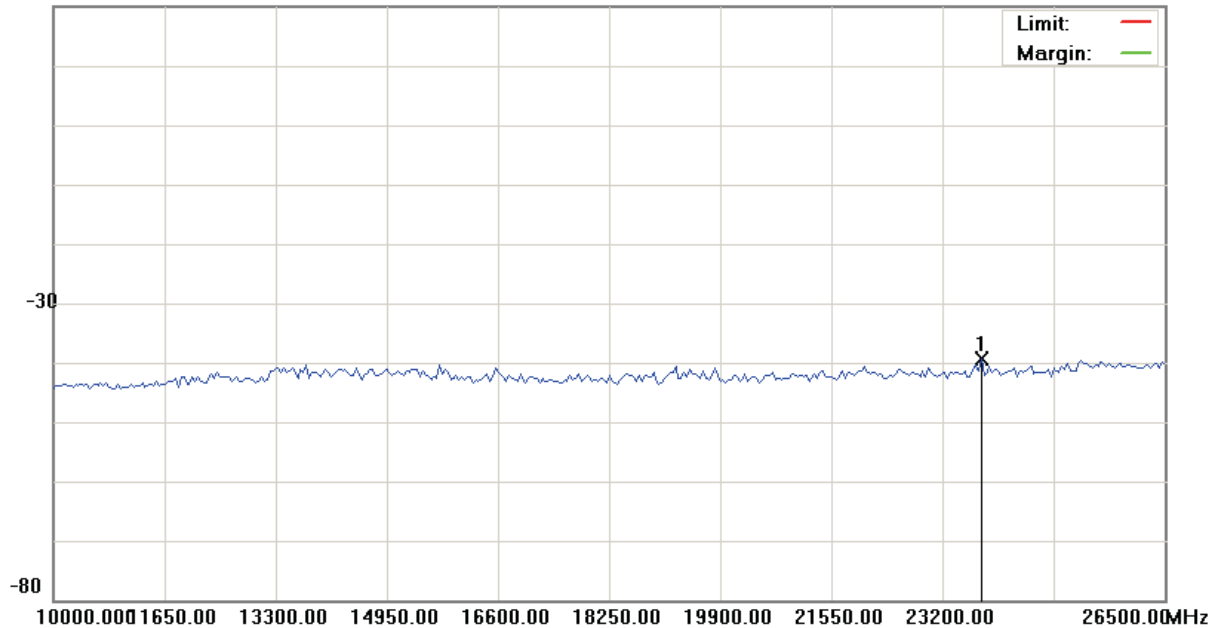
File :EM-100(20db)

Data :#4

Date: 2009/6/4

Time: 下午 08:46:18

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT+EDR

Note: CH00

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	23777.500	-40.45	1.10	-39.35			peak		

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



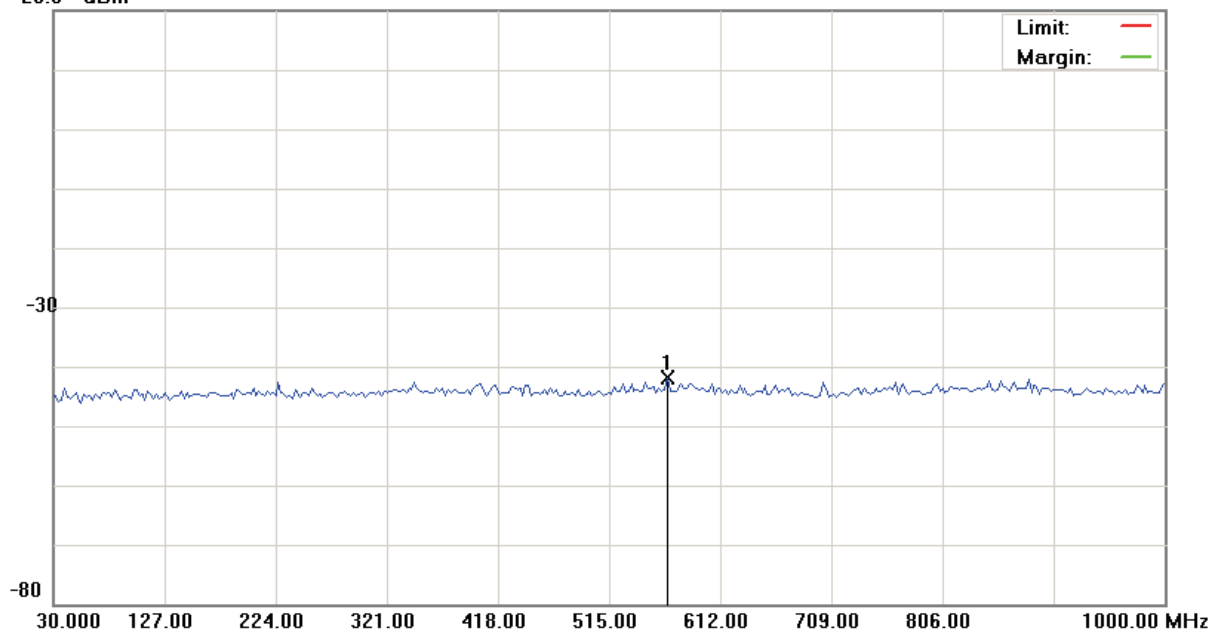
File :EM-100(20db)

Data :#5

Date: 2009/6/4

Time: 下午 08:47:30

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT+EDR

Note: CH39

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	565.9250	-42.90	1.00	-41.90			peak		

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



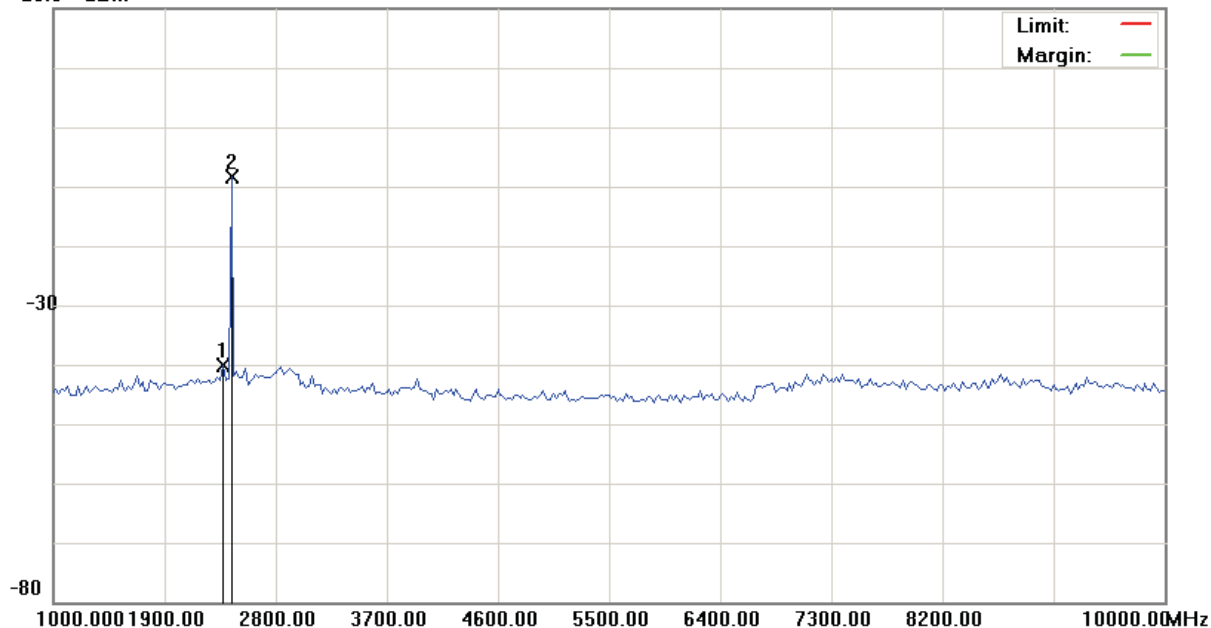
File :EM-100(20db)

Data :#6

Date: 2009/6/4

Time: 下午 08:47:43

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT+EDR

Note: CH39

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2372.500	-41.17	1.01	-40.16			peak		
2	*	2440.000	-9.37	1.01	-8.36			peak		

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



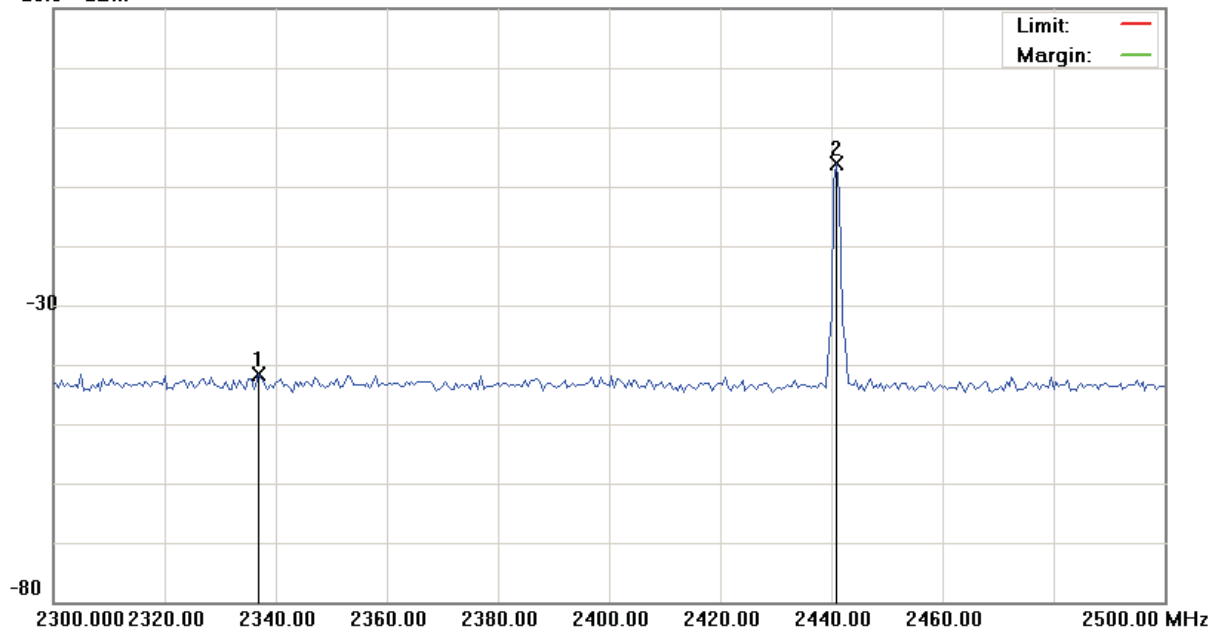
File :EM-100(20db)

Data :#7

Date: 2009/6/4

Time: 下午 08:47:57

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT+EDR

Note: CH39

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2337.000	-42.68	1.01	-41.67			peak		
2	*	2441.000	-7.06	1.01	-6.05			peak		

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



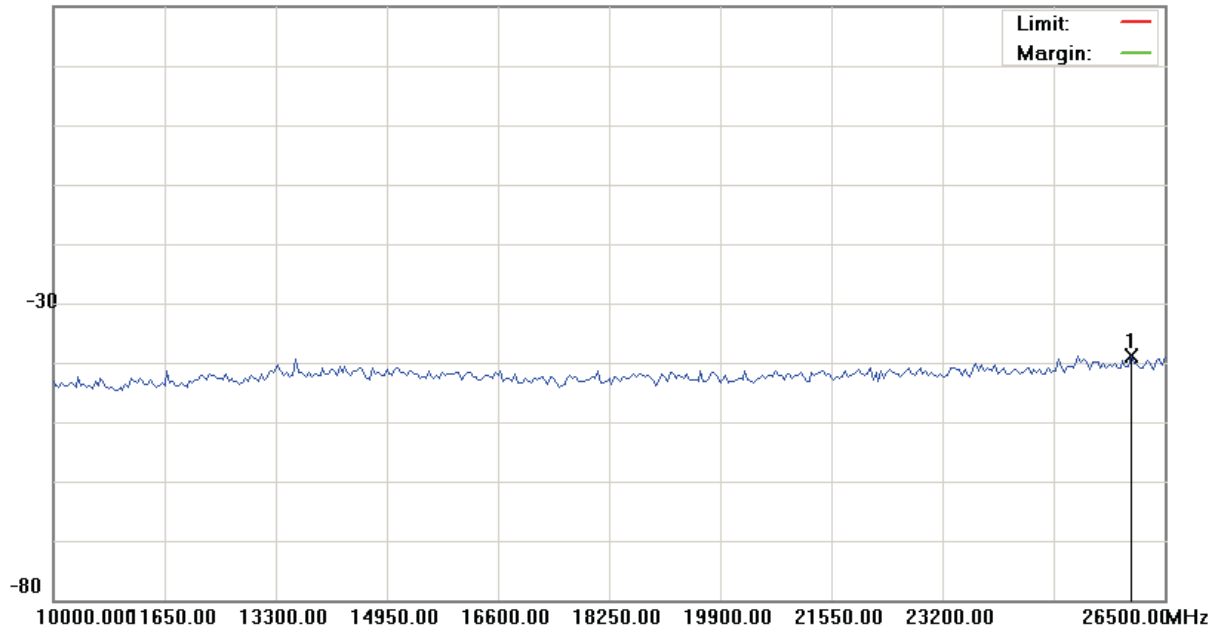
File :EM-100(20db)

Data :#8

Date: 2009/6/4

Time: 下午 08:48:10

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT+EDR

Note: CH39

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	26005.000	-39.94	1.11	-38.83			peak		

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



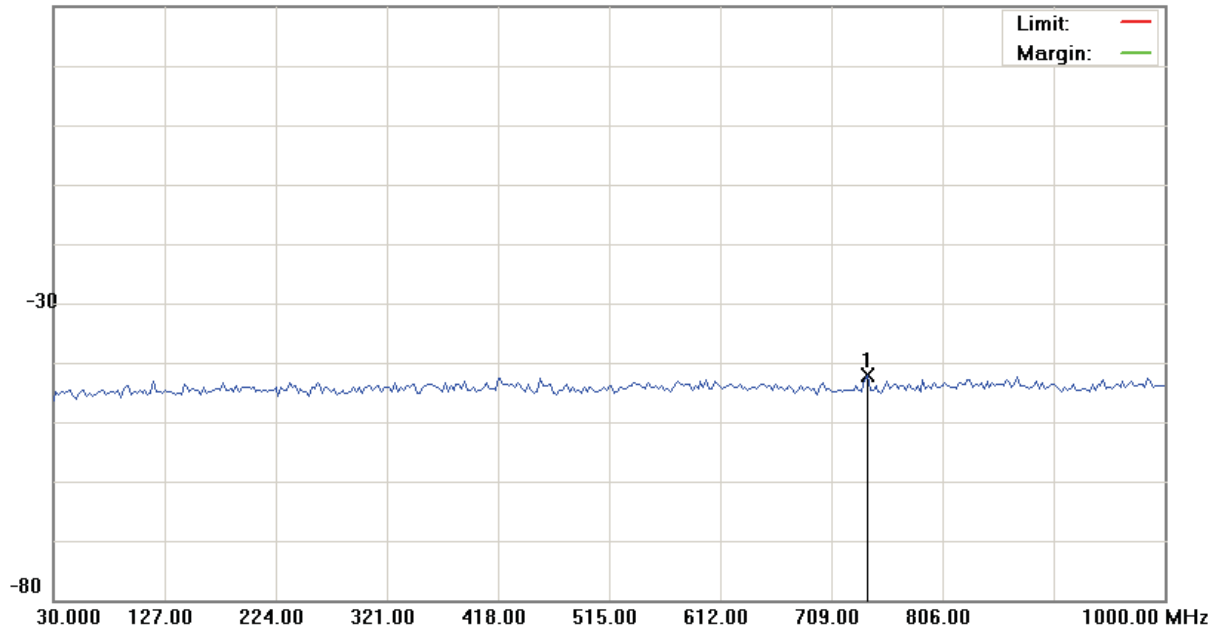
File :EM-100(20db)

Data :#9

Date: 2009/6/4

Time: 下午 08:48:54

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT+EDR

Note: CH78

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	740.5250	-43.04	1.00	-42.04			peak		

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



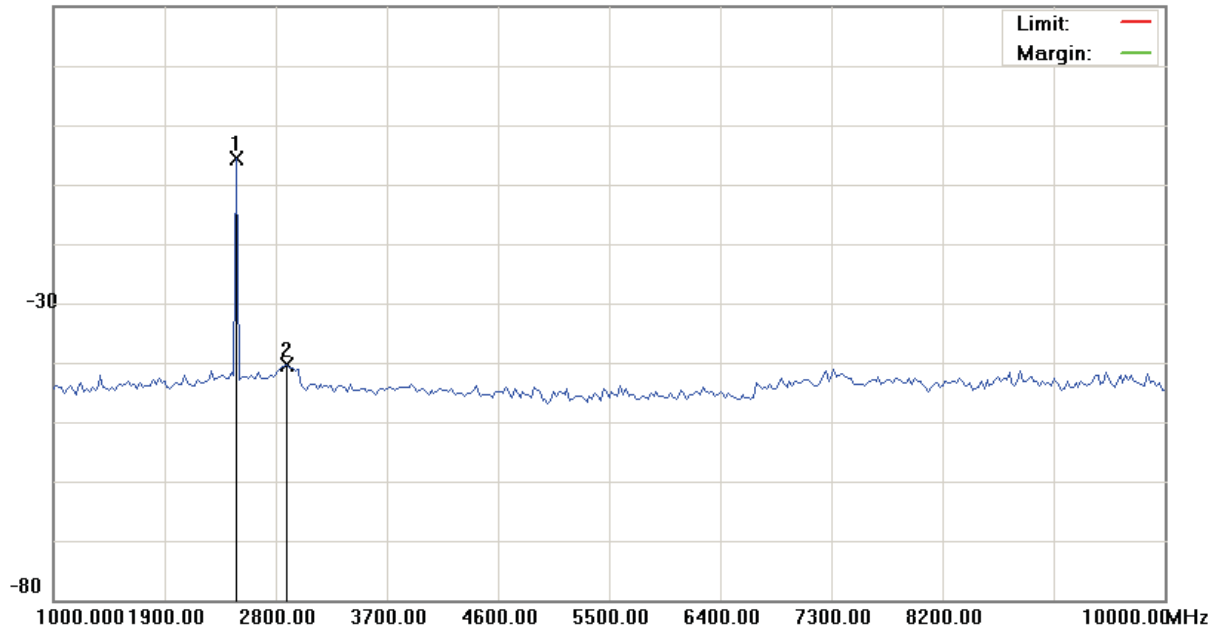
File :EM-100(20db)

Data :#10

Date: 2009/6/4

Time: 下午 08:49:07

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT+EDR

Note: CH78

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2485.000	-6.69	1.01	-5.68					peak
2		2890.000	-41.33	1.01	-40.32					peak

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



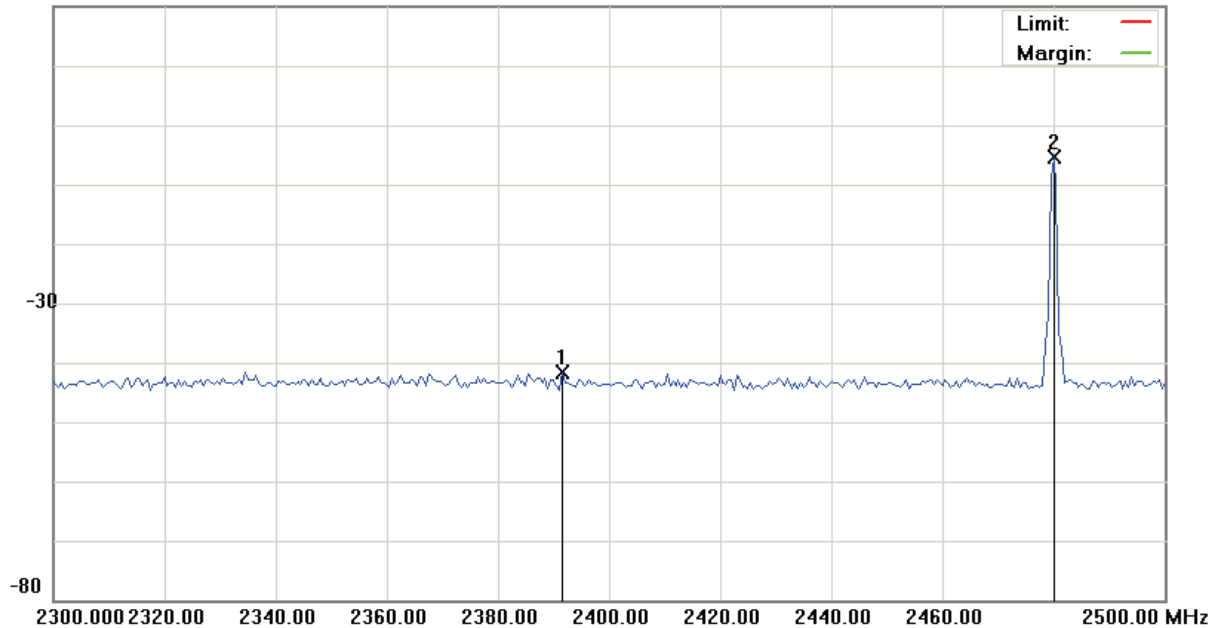
File :EM-100(20db)

Data :#11

Date: 2009/6/4

Time: 下午 08:49:21

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT+EDR

Note: CH78

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2391.500	-42.57	1.01	-41.56			peak		
2	*	2480.000	-6.44	1.01	-5.43			peak		

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



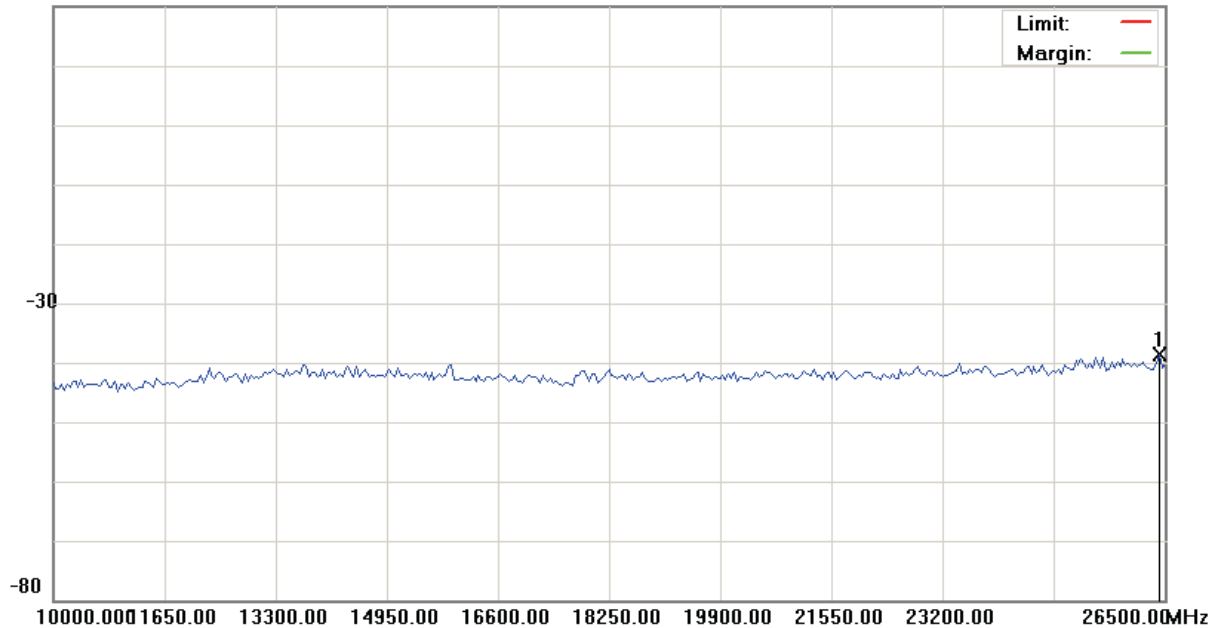
File :EM-100(20db)

Data :#12

Date: 2009/6/4

Time: 下午 08:49:34

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0106-CEO

Mode: BT+EDR

Note: CH78

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	26417.500	-39.78	1.11	-38.67			peak		

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

10. Band Edges Requirements

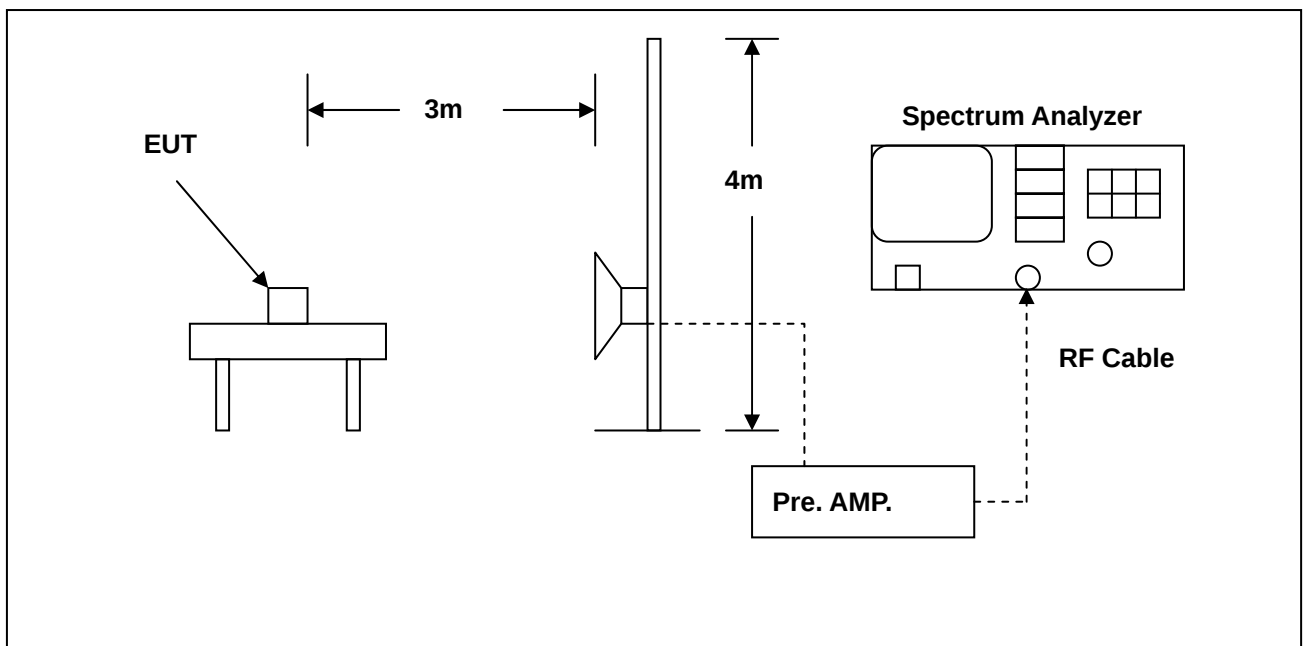
10.1 Test Condition & Setup:

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. 08, 2009	Jun. 08, 2010
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 : Partner Tech Corp.
Model No : EM-100
EUT : E-Menu
Test Mode : Bluetooth 2.0 Link Mode _ Low CH & High CH
Test Date : 06/04/2009

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.



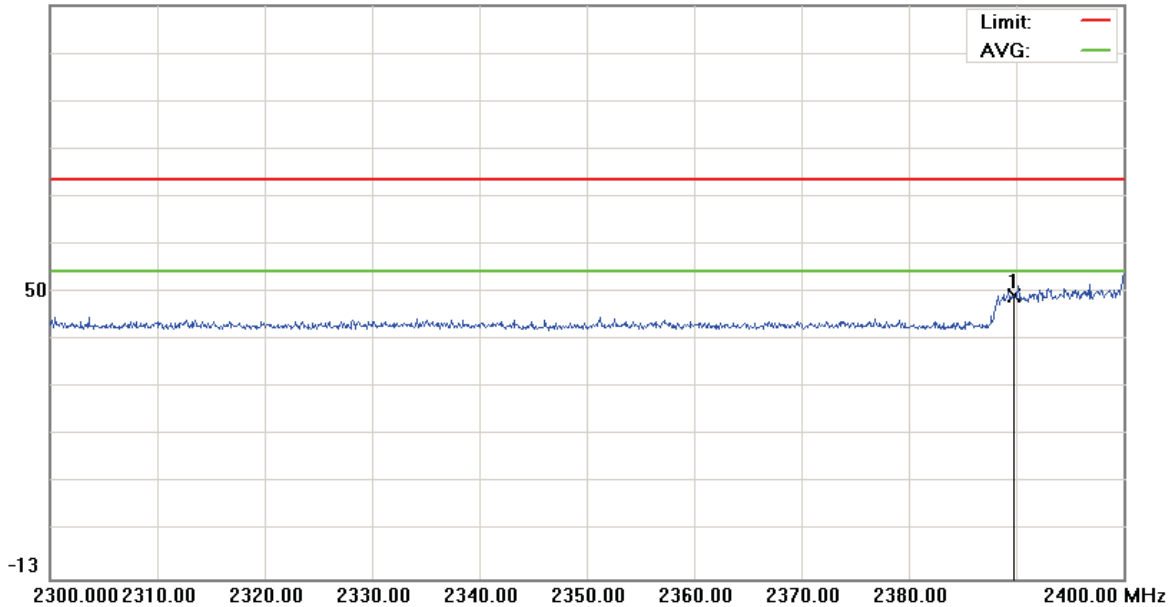
File :EM-100(BAND EDGE)

Data :#1

Date: 2009/6/4

Time: 下午 06:51:12

112.0 dBuV



Site site#1

Polarization: *Vertical*

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT

Note: 2402MHz , Antenna100cm , NB01

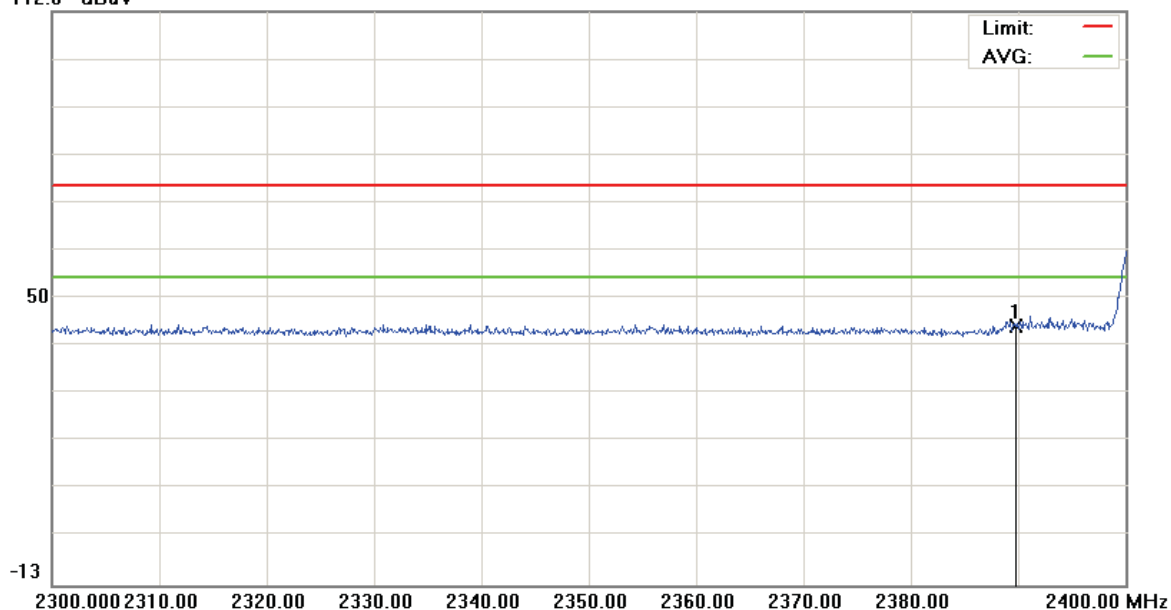
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1	*	2389.800	48.68	0.19	48.87	74.00	-25.13	peak		

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

●Reference Only



File :EM-100(BAND EDGE) Data :#5 Date: 2009/6/4 Time: 下午 06:59:32
112.0 dBuV



Site site#1 Polarization: **Horizontal** Temperature: 22 °C
Limit: FCC part 15 (PK) Power: Humidity: 60 %
EUT: Distance: 3m
M/N: 09-0106-CEO
Mode: BT
Note: 2402MHz , Antenna100cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2389.800	43.30	0.19	43.49	74.00	-30.51	peak		

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

●Reference Only



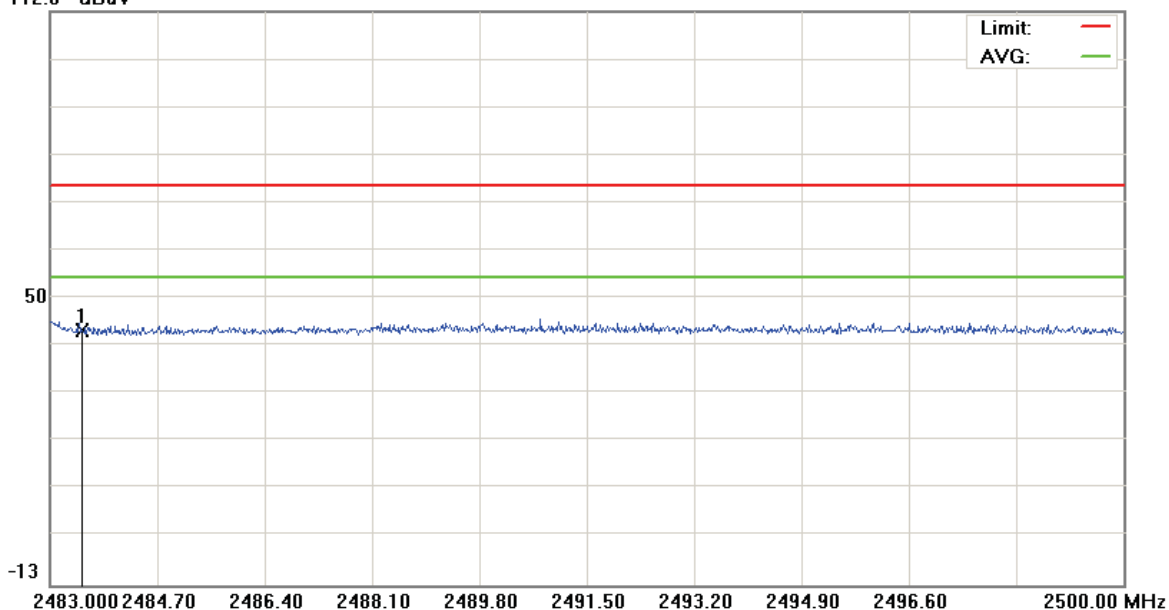
File :EM-100(BAND EDGE)

Data :#3

Date: 2009/6/4

Time: 下午 07:09:39

112.0 dBuV



Site site#1

Polarization: *Vertical*

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT

Note: 2480MHz , Antenna100cm , NB01

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1	*	2483.510	42.37	0.25	42.62	74.00	-31.38	peak		

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

●Reference Only



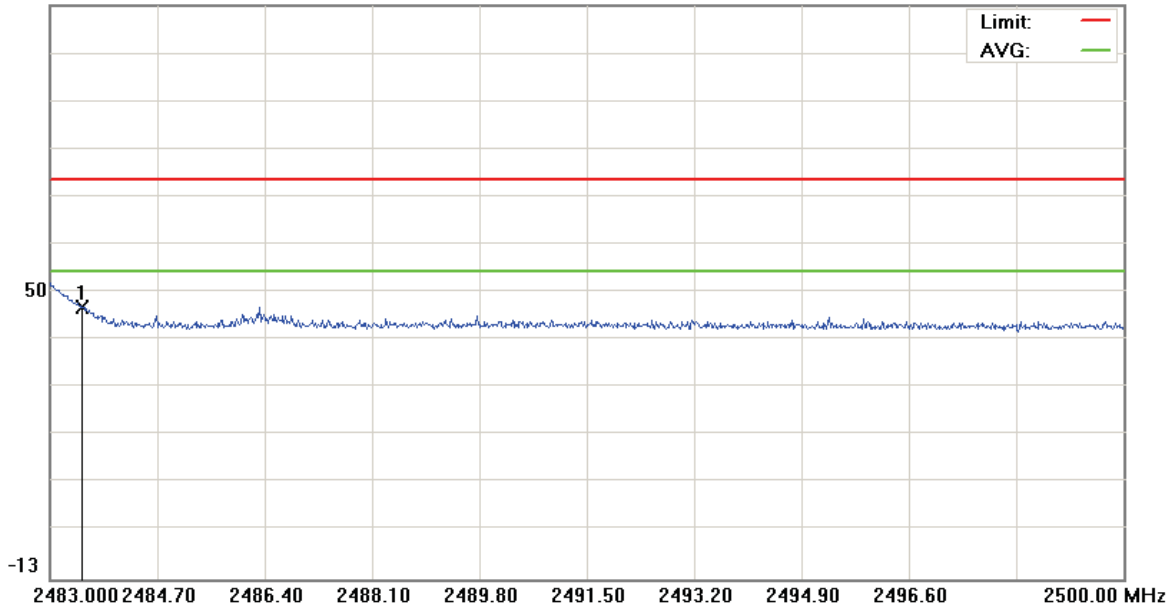
File :EM-100(BAND EDGE)

Data :#7

Date: 2009/6/4

Time: 下午 07:14:11

112.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BT

Note: 2402MHz , Antenna100cm , NB01

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1	*	2483.510	45.93	0.25	46.18	74.00	-27.82	peak		

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

●Reference Only



10.4.2 Bluetooth EDR Mode:

Applicant : Partner Tech Corp.
Model No : EM-100
EUT : E-Menu
Test Mode : Bluetooth EDR Link Mode _ Low CH & High CH
Test Date : 06/04/2009

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.



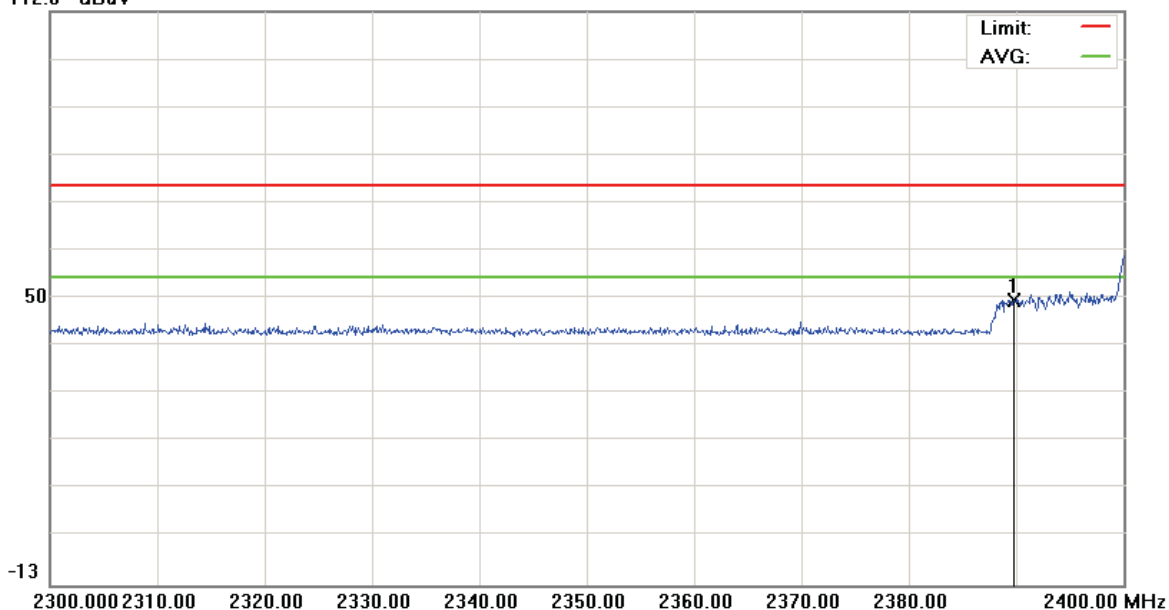
File :EM-100(BAND EDGE)

Data :#1

Date: 2009/6/4

Time: 下午 08:48:21

112.0 dBuV



Site site#1

Polarization: *Vertical*

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BAND EDGE

Note: 2402MHz , Antenna100cm , NB01

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1	*	2389.800	48.70	0.19	48.89	74.00	-25.11	peak		

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

●Reference Only



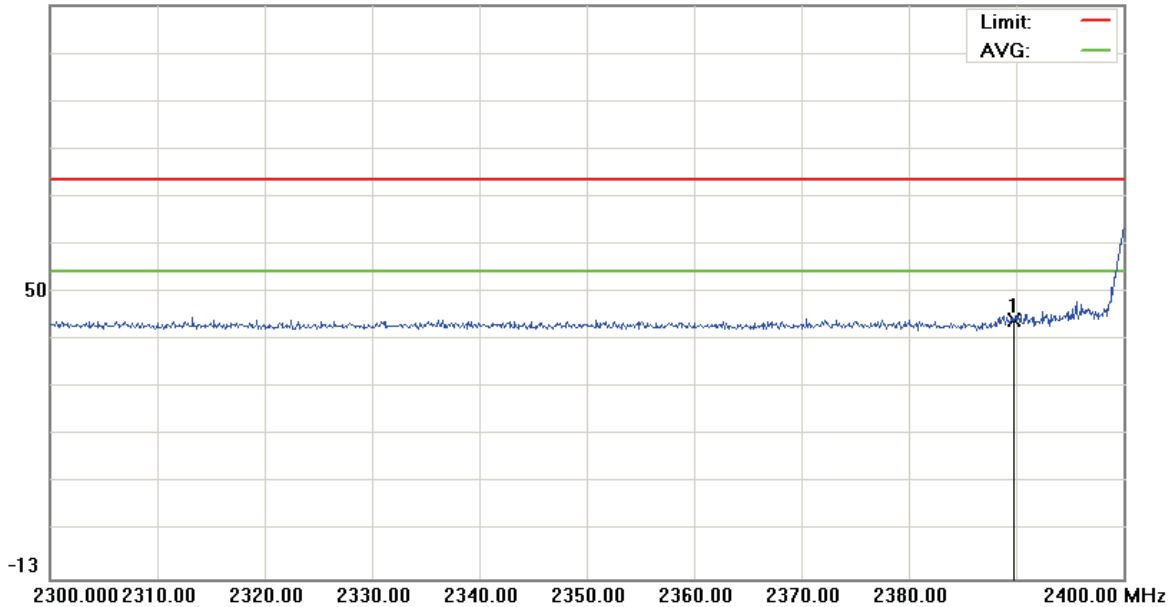
File :EM-100(BAND EDGE)

Data :#5

Date: 2009/6/4

Time: 下午 08:55:14

112.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BAND EDGE

Note: 2402MHz , Antenna100cm , NB01

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1	*	2389.800	43.13	0.19	43.32	74.00	-30.68	peak		

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

●Reference Only



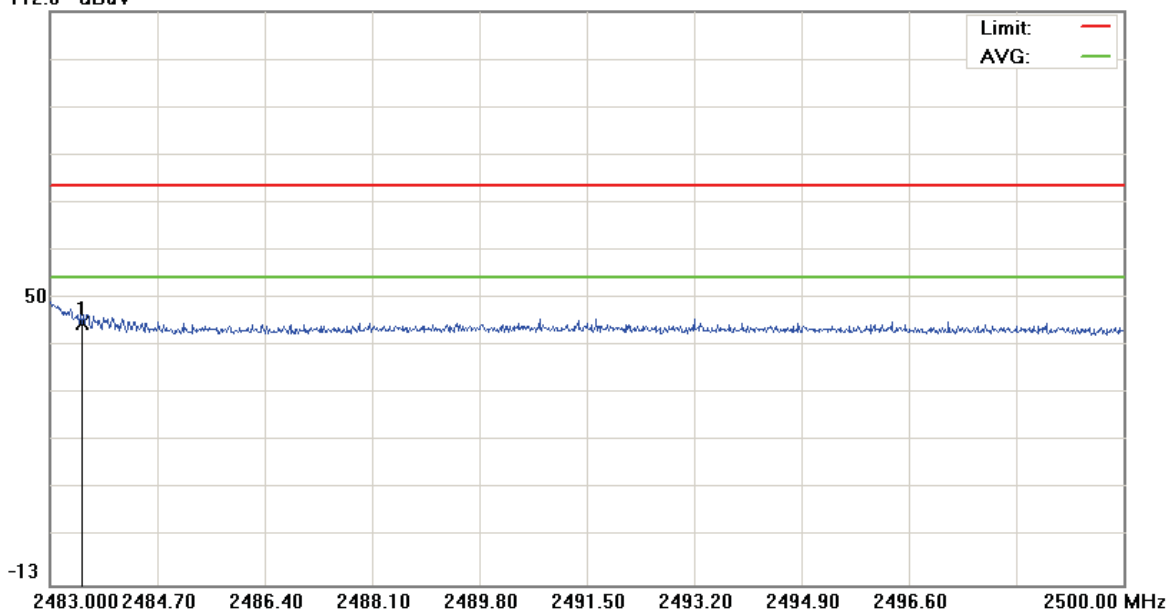
File :EM-100(BAND EDGE)

Data :#3

Date: 2009/6/4

Time: 下午 09:12:44

112.0 dBuV



Site site#1

Polarization: *Vertical*

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BAND EDGE

Note: 2480MHz , Antenna100cm , NB01

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1	*	2483.510	43.64	0.25	43.89	74.00	-30.11	peak		

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

●Reference Only



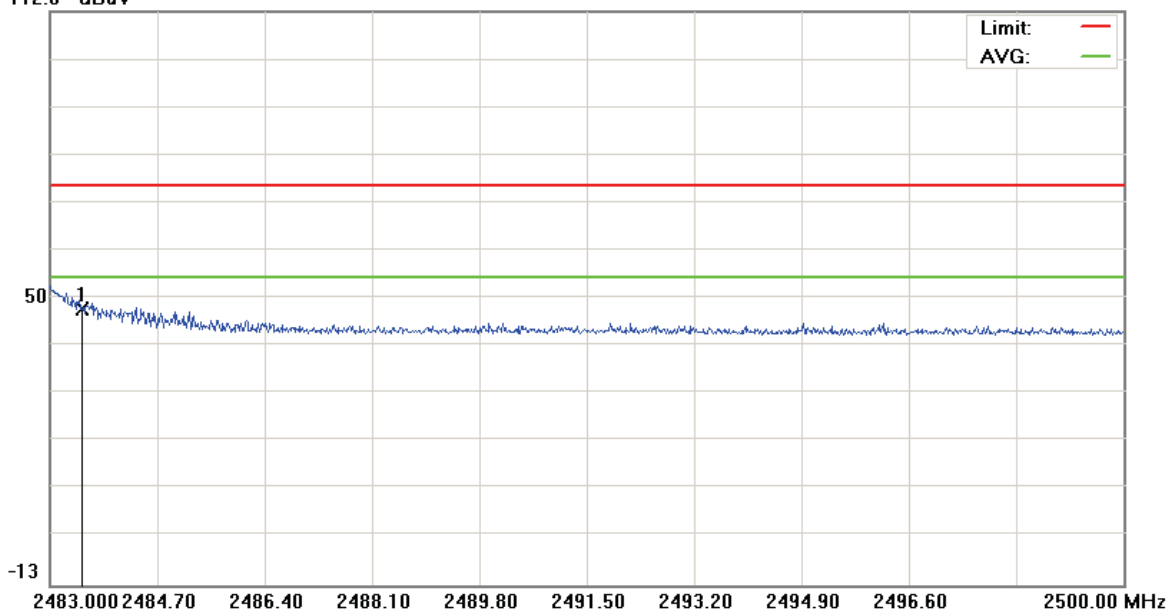
File :EM-100(BAND EDGE)

Data :#7

Date: 2009/6/4

Time: 下午 09:17:27

112.0 dBuV



Site site#1

Polarization: *Horizontal*

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0106-CEO

Mode: BAND EDGE

Note: 2480MHz , Antenna100cm , NB01

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1	*	2483.510	46.92	0.25	47.17	74.00	-26.83	peak		

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

●Reference Only



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.

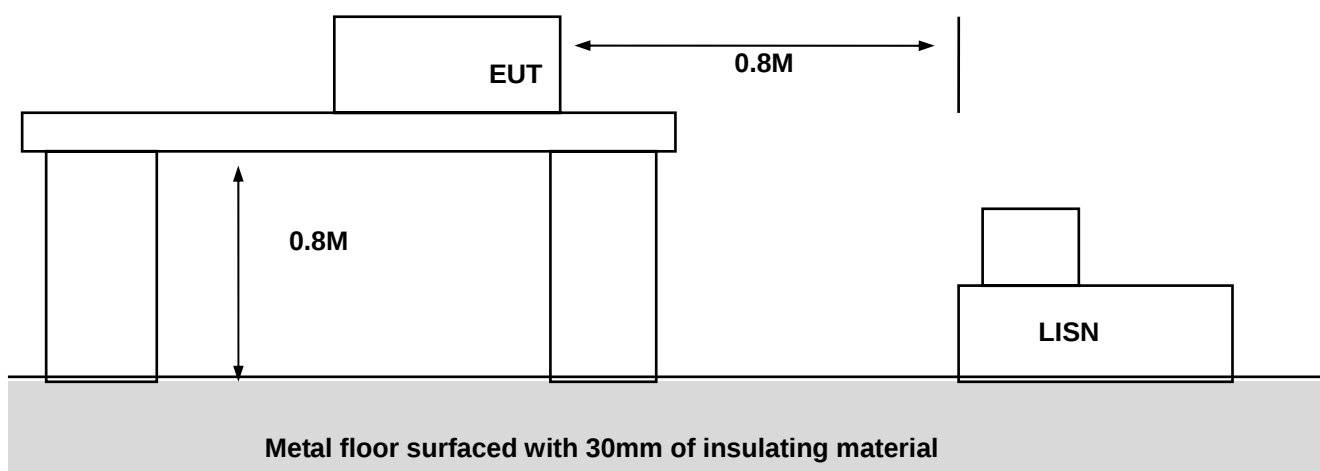
And According to 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2 Antenna Connector Construction

The antenna used in this product is fixed antenna. And the maximum Gain of this antenna is only **3.49dBi**.

Appendix A - EUT Test SETUP

MEASUREMENT OF POWER LINE CONDUCTED RFI VOLTAGE



MEASUREMENT OF RADIATED EMISSION

