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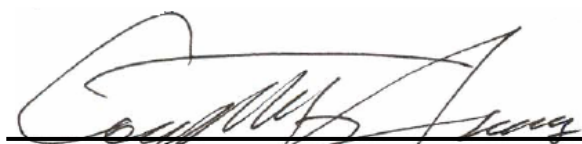
No.140-1, Chang-an St., Bade City, Tao-Yuan County 334, Taiwan (R.O.C.)
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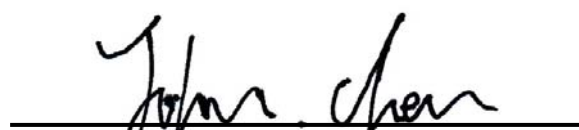
Part 15 C Measurement Report



Report No.	: 0802FR18
Applicant	: Inventec Corporation
Trade Mark	: velocitymobile
Product Model	: Velocity 103
Product Type	: PDA PHONE
FCC ID	: DGIBC0312AAA000
Dates of Test	: Apr. 22, ~ Apr. 30, 2008
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.
3. The measurement report has to be written approval of A Test Lab Techno Corp. It may only be reproduced or published in full.


Country Huang 20080606
Measurement Center Manager


John Cheng 20080606
Testing Engineer



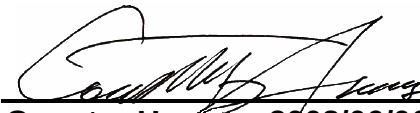
CERTIFICATION

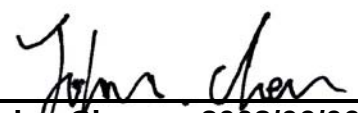
We here by verify that:

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 : PDA Phone
Applicant : Inventec Corporation
Inventec Building, 66 Hou-Kang Street, Shih-Lin District,
Taipei 11170, Taiwan
Model No : Velocity 103
FCC ID : DGIBC0312AAA000

Approved by : 
Country Huang 2008/06/06

Prepared by : 
John Cheng 2008/06/06

A Test Lab Techno Corp.

*No.140-1, Chang-an St., Bade City, Tao-Yuan County 334, Taiwan (R.O.C.)
Tel : 03-2710188 / Fax : 03-2710190*



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1. GENERAL

1.1 Description of Equipment under Test (EUT)

Applicant : **Inventec Corporation**
Inventec Building, 66 Hou-Kang Street, Shih-Lin District, Taipei 11170, Taiwan.

Manufacturer : Inventec Corporation
Manufacturer Address : Inventec Building, 66 Hou-Kang Street, Shih-Lin District, Taipei 11170, Taiwan.
Product Type : PDA PHONE
Trade Name : velocitymobile
Model Name : Velocity 103
FCC ID : DGIBC0312AAA000
Input Rating : 100 - 240VAC / 0.25A (AC Adapter)
Frequency of Channel : See Table 1
Type of Modulation : Direct Sequence Spread Spectrum
Type of Antenna : Internal Type

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.

802.11b/g Mode	
CH	Frequency
1	2412
2	2417
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462

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



1.2 Introduction

The following measurement report is submitted on behalf of **Inventec Corporation** 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

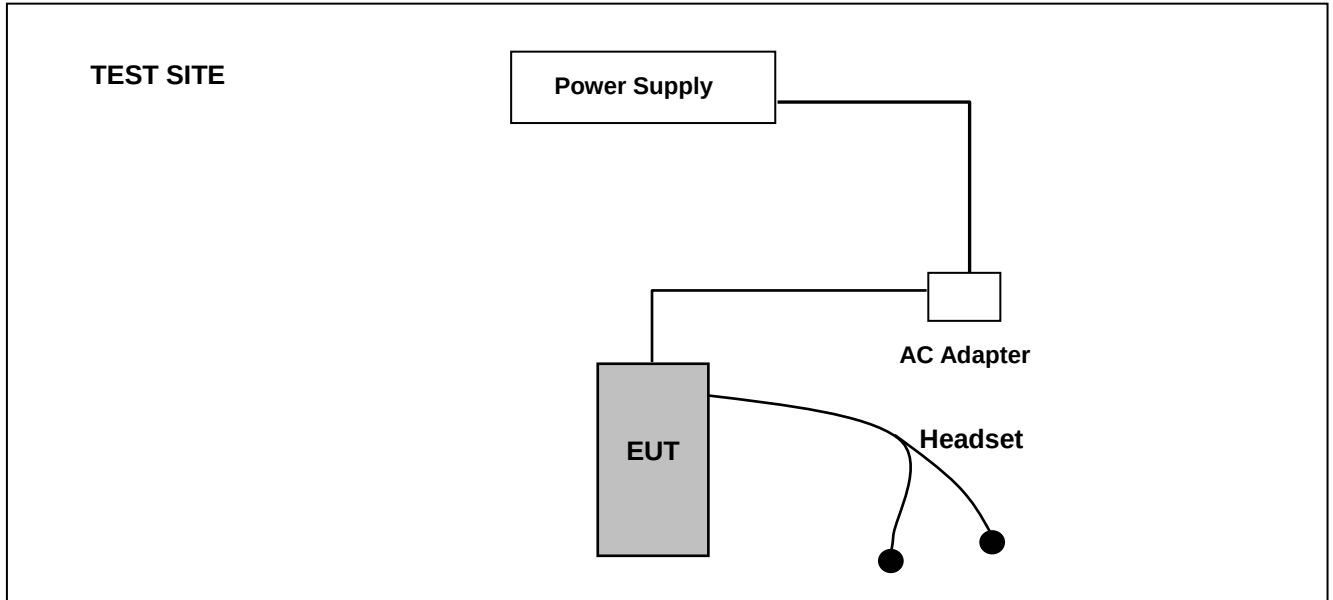
47 CFR Part 15 Subpart C			
Reference	Test	Results	Note
15.107	AC Power Conducted Emission	PASS	
15.247(c)	Transmitter Radiated Emissions	PASS	
15.247(b)	Max. Output Power	PASS	
15.247(a)(2)	6dB RF Bandwidth	PASS	
15.247(d)	Max. Power Density	PASS	
15.247(c)	Out of Band Conducted Spurious Emission	PASS	
15.247(c)	Band Edge Measurement	PASS	
15.203	Antenna Requirement	PASS	



1.4 Description of Support Equipment

Computer	: DELL
Model No.	: PP49L
Serial No.	: UF230 A03
FCC ID	: E2KWM3945ABC
Keyboard	: DELL
Model No.	: SK-8115
Serial No.	: MY-0DJ325-71619-7113-1366
FCC ID	: FCC DOC
Monitor	: DELL
Model No.	: E177FPc
Serial No.	: CN-0FJ179-64180-6BT-4LYS
FCC ID	: FCC DOC
Mouse	: DELL
Model No.	: M056U0A
Serial No.	: F1F026E1
FCC ID	: FCC DOC
Printer	: EPSON
Model No.	: C60
Serial No.	: DR3K041323
FCC ID	: FCC DOC

1.5 Configuration of System under Test



During EMI testing (LINK) the EUT (PDA PHONE)'s Power port was connected to AC Adapter. EUT (PDA PHONE)'s ear port connected to headset.



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 system's 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.

1.8 Test Modes

Preliminary tests were performed in different data rate to find the worst case. The data rate shown in the table below is the worst-case rate (Blue color). Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

802.11b		
Channel	Data Rate (Mbps)	Power (dBm)
1	1	18.31
	5.5	18.26
	11	18.19
6	1	17.54
	5.5	17.48
	11	17.41
11	1	18.19
	5.5	18.01
	11	17.92

802.11g		
Channel	Data Rate (Mbps)	Power (dBm)
1	6	17.45
	24	17.33
	54	17.21
6	6	17.26
	24	17.15
	54	16.99
11	6	17.11
	24	17.01
	54	16.94



2. Conducted Emissions Requirements

2.1 General & Setup:

The EUT was setup to ANSI C63.4, 2003; tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

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

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

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

2.2 Test Equipment List:

Describe	Manufacturer	Model	Serial Number	Calibration	
				Cal. Date	Due Date
Spectrum Analyzer	Advantest	R3132	160300103	Mar. 06, 2008	Mar. 06, 2009
Test Receiver	R&S	ESCI	100367	May. 23, 2007	May. 23, 2008
LISN	EMCO	3816/2 SH	00060110	Jun. 06, 2007	Jun. 06, 2008
LISN	EMCO	3816/2 SH	00060111	Jun. 13, 2007	Jun. 13, 2008
Transient Limiter	ELECTRO-METRICS	EM-7600	777	Jun. 26, 2007	Jun. 26, 2008

2.3 Test Configuration:



Figure 1. Front View of the Test Configuration



Figure 2. 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 : Inventec Corporation
Model No : Velocity 103
EUT : PDA PHONE
Test Mode : AC Adapter _ 802.11b CH Low & Middle & High
Test Date : 04/24/2008

Please refer to next pager of detail testing data.

Notes:

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



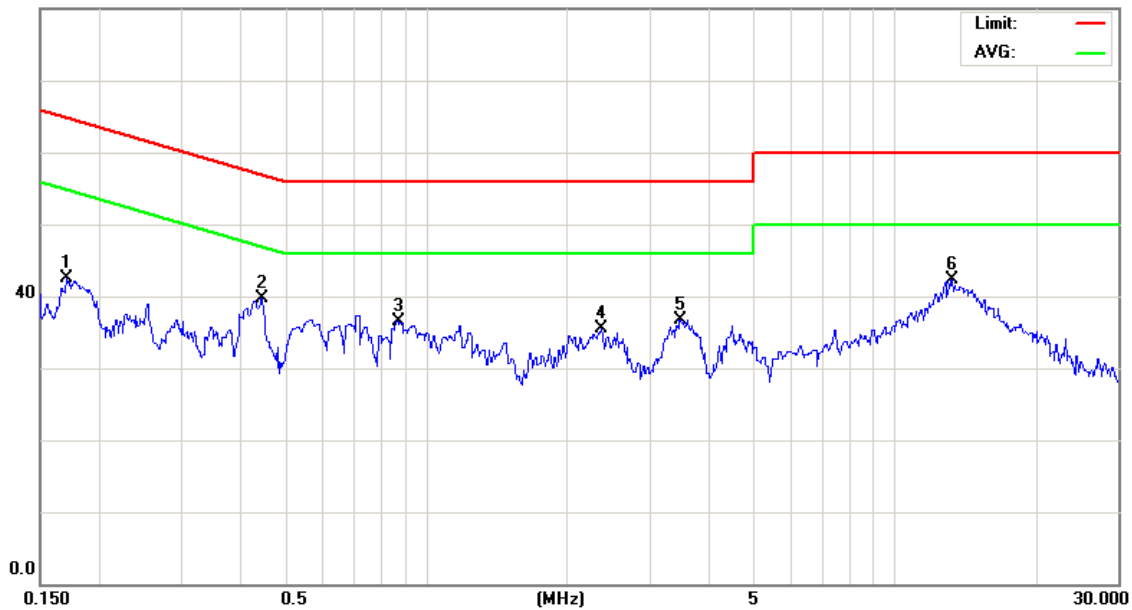
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Data :#1

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WIFI 11 b

Note: AC mode CH01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1703	32.80	9.73	42.53	64.94	-22.41	peak	
2	*	0.4447	29.88	9.78	39.66	56.97	-17.31	peak	
3		0.8690	26.75	9.80	36.55	56.00	-19.45	peak	
4		2.3630	25.66	9.84	35.50	56.00	-20.50	peak	
5		3.4790	26.73	9.95	36.68	56.00	-19.32	peak	
6		13.2000	32.09	10.20	42.29	60.00	-17.71	peak	

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

●Reference Only



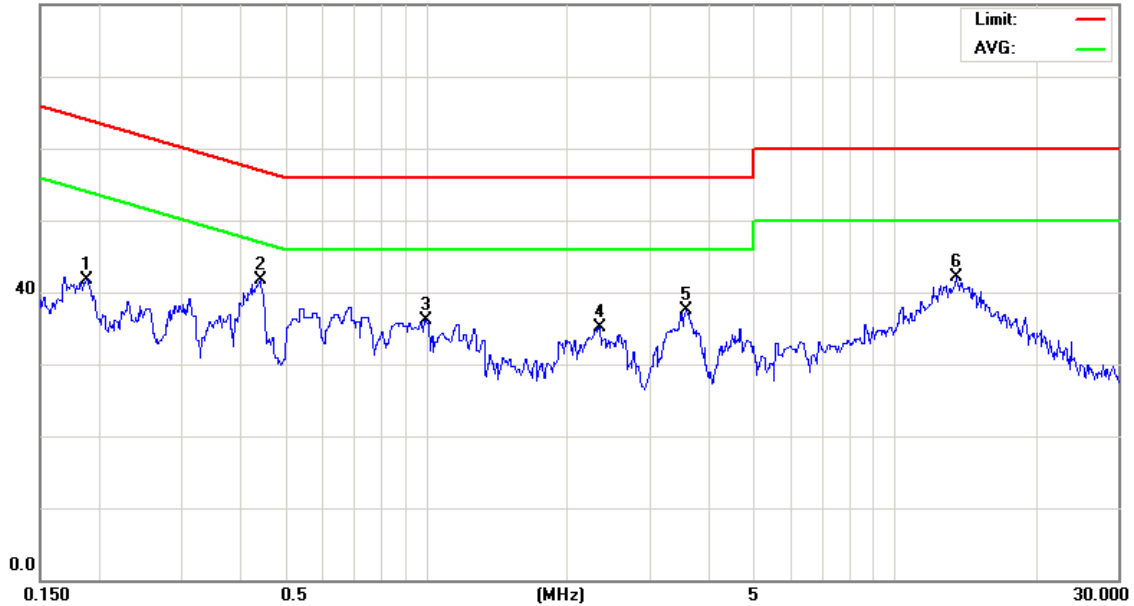
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Data :#2

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WIFI 11 b

Note: AC mode CH01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1884	31.90	9.74	41.64	64.10	-22.46	peak	
2	*	0.4405	31.96	9.78	41.74	57.05	-15.31	peak	
3		0.9950	26.26	9.81	36.07	56.00	-19.93	peak	
4		2.3360	25.22	9.85	35.07	56.00	-20.93	peak	
5		3.5780	27.55	9.94	37.49	56.00	-18.51	peak	
6		13.5500	31.86	10.21	42.07	60.00	-17.93	peak	

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

●Reference Only



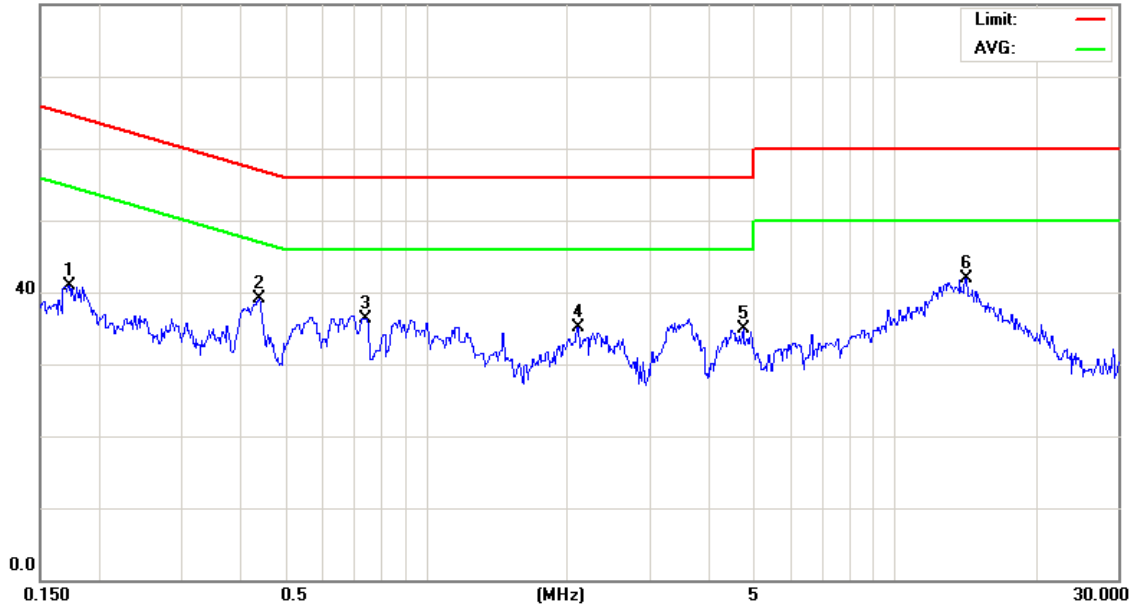
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Data :#3

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WIFI 11 b

Note: AC mode CH06

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1724	31.13	9.73	40.86	64.84	-23.98	peak	
2	*	0.4391	29.26	9.78	39.04	57.08	-18.04	peak	
3		0.7430	26.45	9.80	36.25	56.00	-19.75	peak	
4		2.1020	25.26	9.87	35.13	56.00	-20.87	peak	
5		4.7390	24.96	10.01	34.97	56.00	-21.03	peak	
6		14.1500	31.66	10.20	41.86	60.00	-18.14	peak	

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

●Reference Only



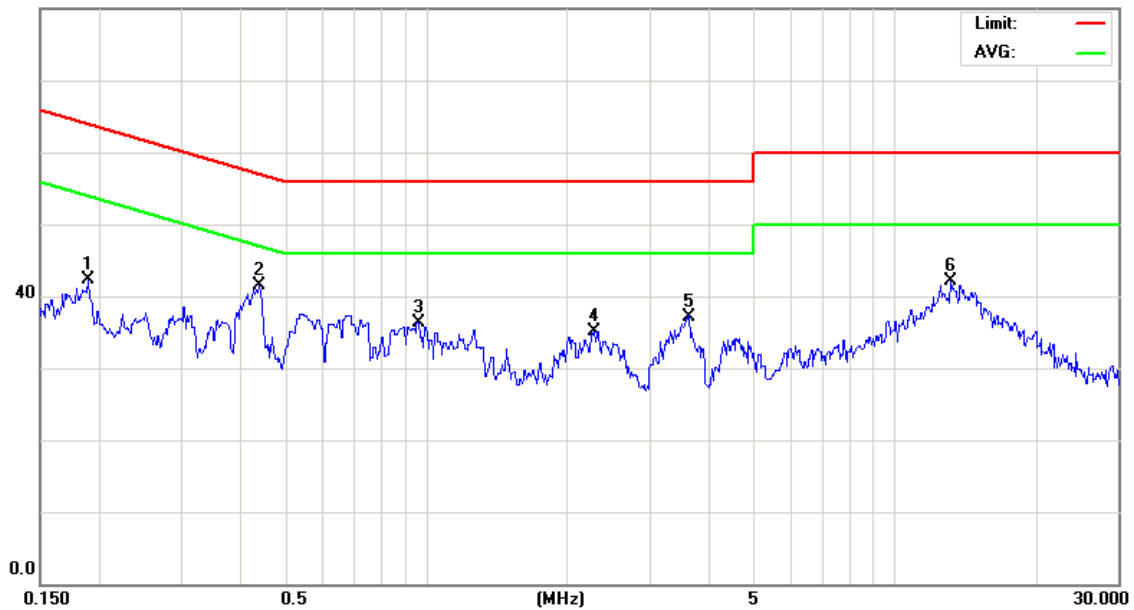
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Data :#4

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WIFI 11 b

Note: AC mode CH06

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1899	32.48	9.74	42.22	64.04	-21.82	peak	
2	*	0.4384	31.76	9.78	41.54	57.09	-15.55	peak	
3		0.9590	26.46	9.81	36.27	56.00	-19.73	peak	
4		2.2820	25.27	9.87	35.14	56.00	-20.86	peak	
5		3.6230	27.27	9.93	37.20	56.00	-18.80	peak	
6		13.1500	31.92	10.19	42.11	60.00	-17.89	peak	

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

●Reference Only



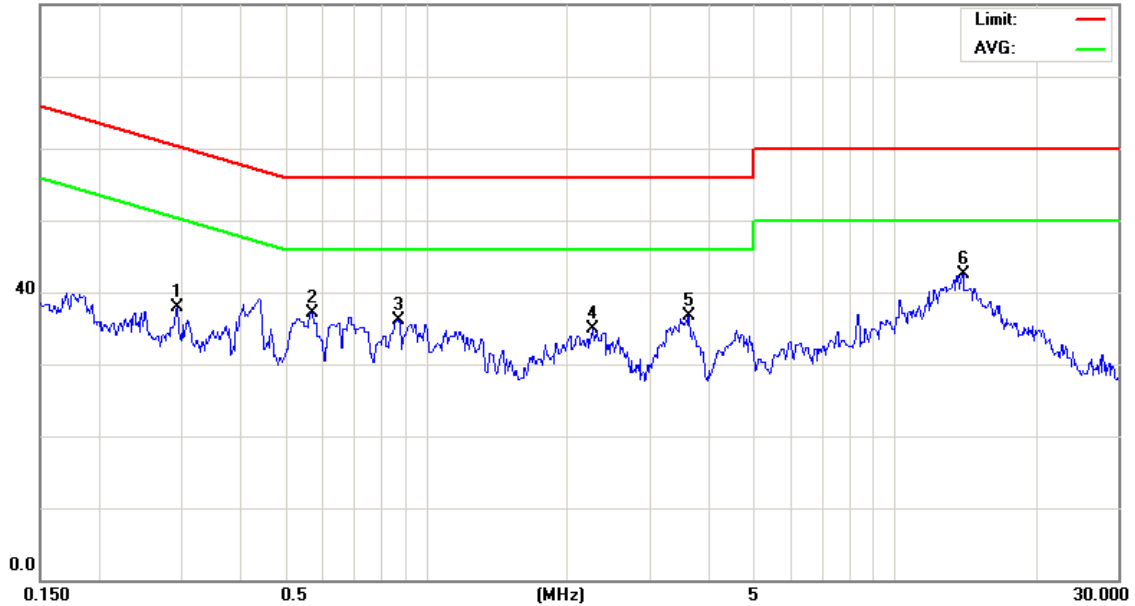
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Data :#5

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WIFI 11 b

Note: AC mode CH11

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2935	28.08	9.76	37.84	60.42	-22.58	peak	
2		0.5720	27.22	9.79	37.01	56.00	-18.99	peak	
3		0.8690	26.34	9.80	36.14	56.00	-19.86	peak	
4		2.2640	25.09	9.87	34.96	56.00	-21.04	peak	
5		3.6230	26.81	9.93	36.74	56.00	-19.26	peak	
6	*	13.9500	32.38	10.20	42.58	60.00	-17.42	peak	

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

●Reference Only



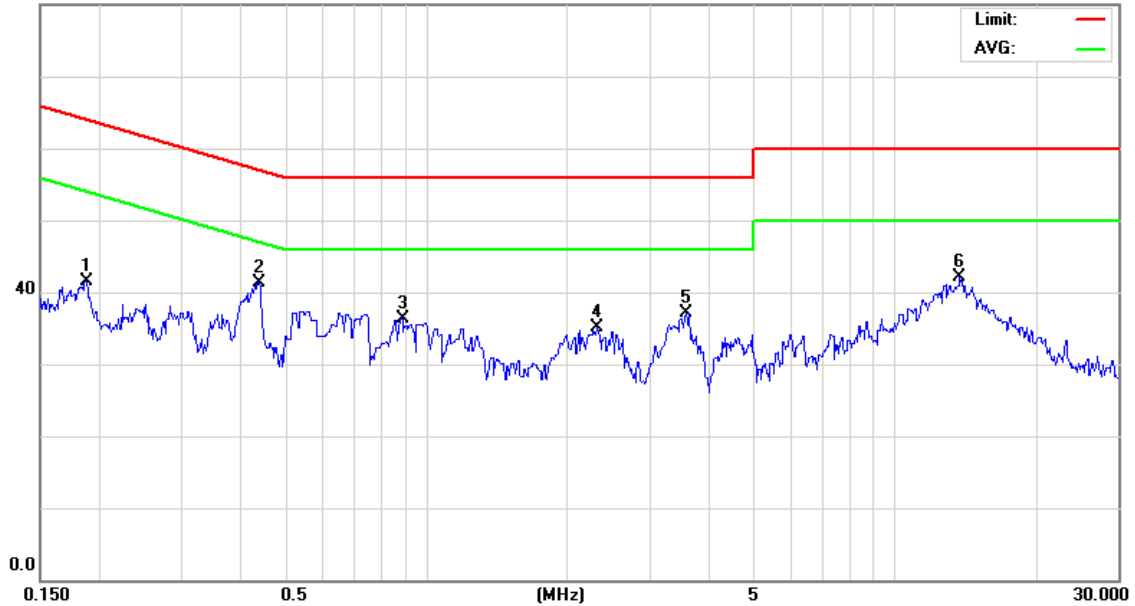
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Data :#6

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WIFI 11 b

Note: AC mode CH11

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1878	31.73	9.74	41.47	64.13	-22.66	peak	
2	*	0.4377	31.43	9.78	41.21	57.10	-15.89	peak	
3		0.8870	26.54	9.80	36.34	56.00	-19.66	peak	
4		2.3179	25.31	9.85	35.16	56.00	-20.84	peak	
5		3.5780	27.16	9.94	37.10	56.00	-18.90	peak	
6		13.7500	31.88	10.21	42.09	60.00	-17.91	peak	

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

●Reference Only



2.6.2 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 : Inventec Corporation
Model No : Velocity 103
EUT : PDA PHONE
Test Mode : AC Adapter _ 802.11g CH Low & Middle & High
Test Date : 04/24/2008

Please refer to next pager of detail testing data.

Notes:

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

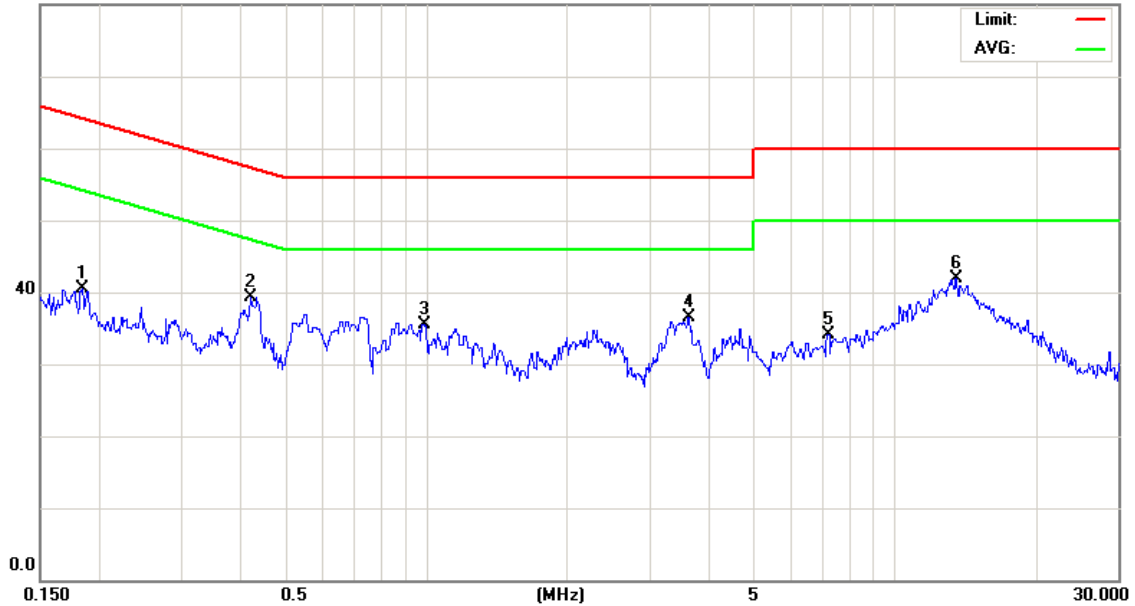
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Data :#1

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WIFI (11G)

Note: AC mode CH1

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1843	30.74	9.74	40.48	64.28	-23.80	peak	
2		0.4209	29.48	9.78	39.26	57.43	-18.17	peak	
3		0.9860	25.75	9.81	35.56	56.00	-20.44	peak	
4		3.6230	26.63	9.93	36.56	56.00	-19.44	peak	
5		7.2000	24.06	10.09	34.15	60.00	-25.85	peak	
6	*	13.5000	31.66	10.21	41.87	60.00	-18.13	peak	

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

●Reference Only

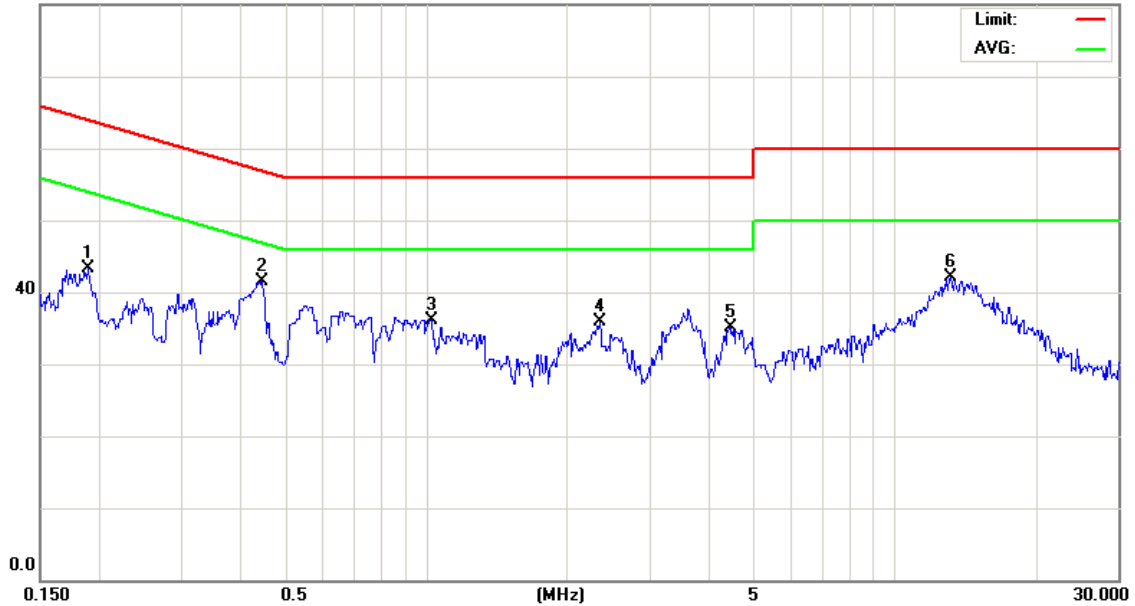
File :Raymond 103(WIFI-11g)

Data :#2

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WIFI (11G)

Note: AC mode CH1

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1899	33.66	9.74	43.40	64.04	-20.64	peak	
2	*	0.4461	31.77	9.78	41.55	56.95	-15.40	peak	
3		1.0220	26.30	9.80	36.10	56.00	-19.90	peak	
4		2.3450	26.13	9.84	35.97	56.00	-20.03	peak	
5		4.4330	25.02	10.02	35.04	56.00	-20.96	peak	
6		13.1500	31.94	10.19	42.13	60.00	-17.87	peak	

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

●Reference Only

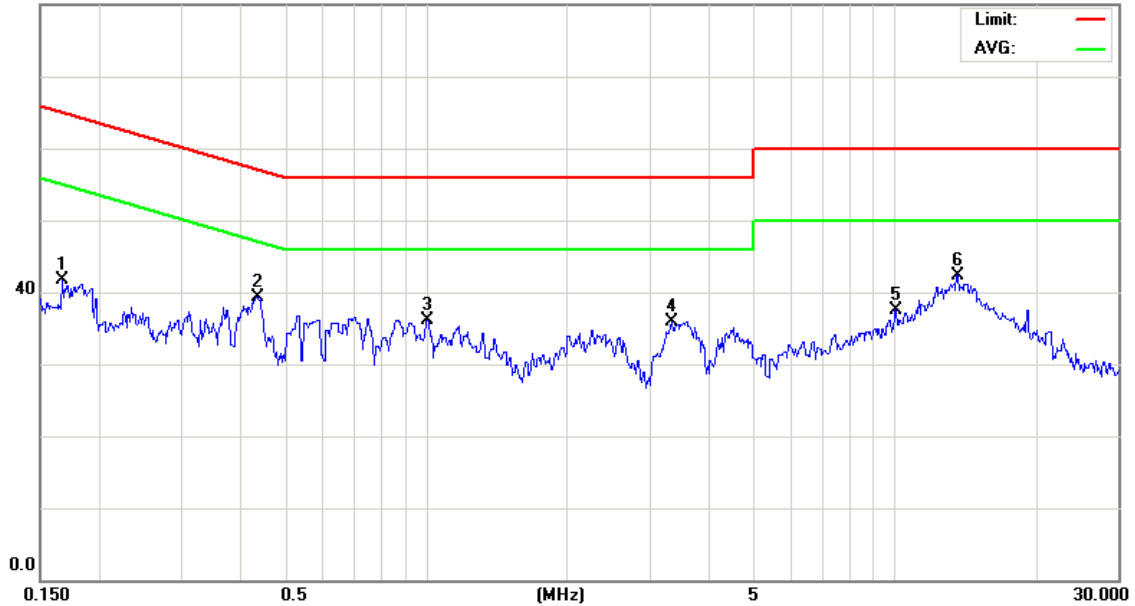
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Data :#3

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WIFI (11G)

Note: AC mode CH6

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1668	32.00	9.73	41.73	65.11	-23.38	peak	
2		0.4356	29.52	9.78	39.30	57.14	-17.84	peak	
3		1.0040	26.21	9.80	36.01	56.00	-19.99	peak	
4		3.3440	25.93	9.94	35.87	56.00	-20.13	peak	
5		10.0500	27.43	10.08	37.51	60.00	-22.49	peak	
6	*	13.6000	32.02	10.21	42.23	60.00	-17.77	peak	

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

●Reference Only

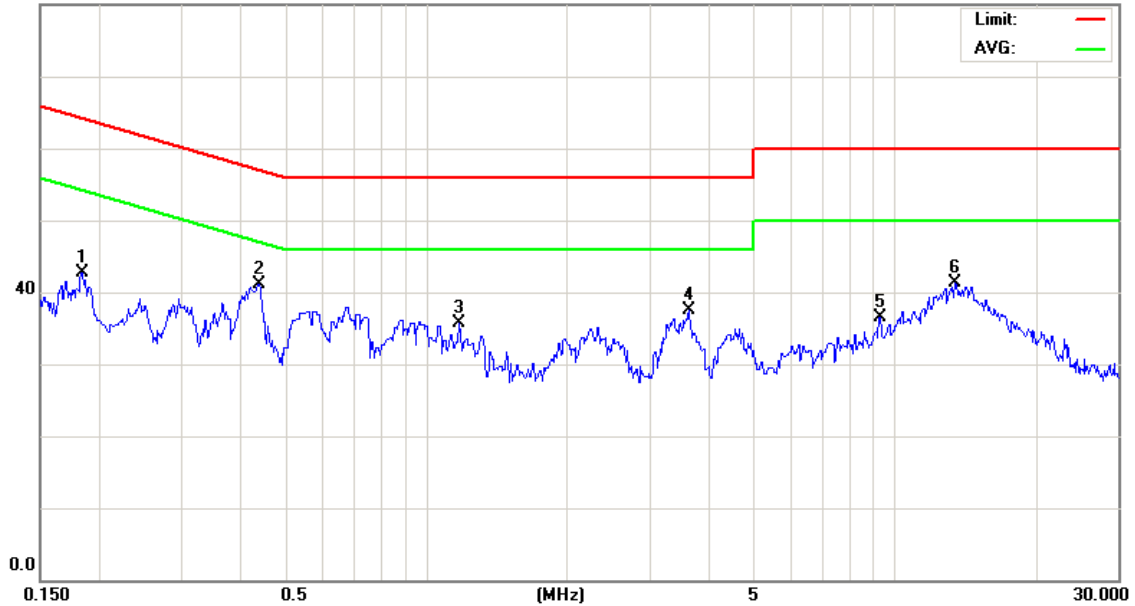
File :Raymond 103(WIFI-11g)

Data :#4

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: L2

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WIFI (11G)

Note: AC mode CH6

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1836	32.91	9.74	42.65	64.32	-21.67	peak	
2	*	0.4391	31.39	9.78	41.17	57.08	-15.91	peak	
3		1.1750	25.86	9.80	35.66	56.00	-20.34	peak	
4		3.6410	27.62	9.93	37.55	56.00	-18.45	peak	
5		9.3000	26.33	10.08	36.41	60.00	-23.59	peak	
6		13.4500	31.16	10.21	41.37	60.00	-18.63	peak	

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

●Reference Only

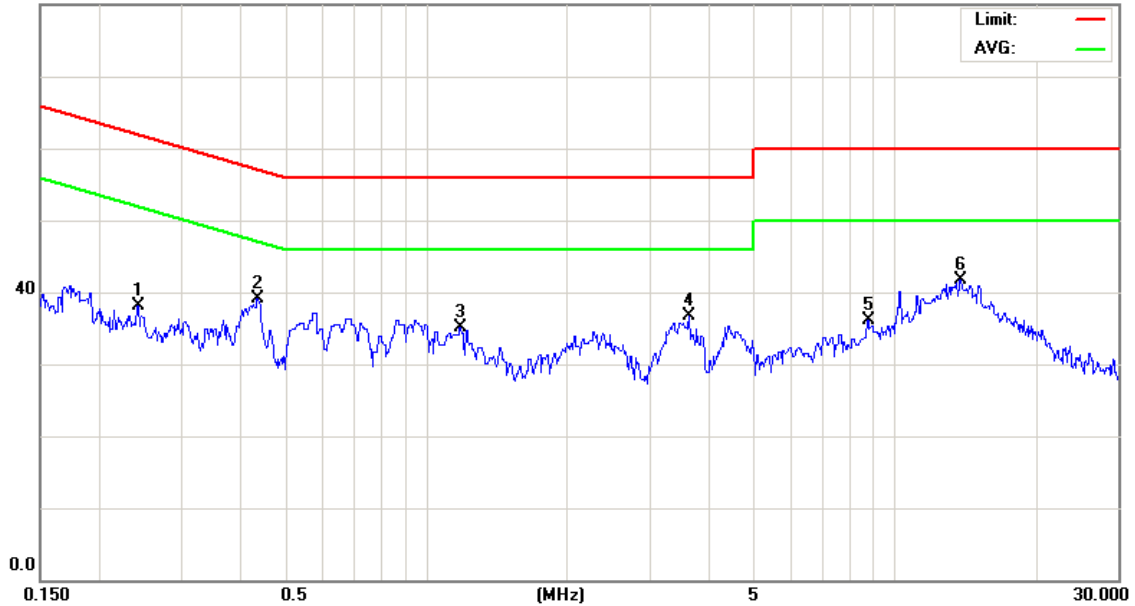
File :Raymond 103(WIFI-11g)

Data :#5

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WIFI (11G)

Note: AC mode CH11

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2417	28.41	9.75	38.16	62.03	-23.87	peak	
2	*	0.4356	29.33	9.78	39.11	57.14	-18.03	peak	
3		1.1840	25.24	9.80	35.04	56.00	-20.96	peak	
4		3.6320	26.81	9.93	36.74	56.00	-19.26	peak	
5		8.7500	25.92	10.09	36.01	60.00	-23.99	peak	
6		13.8000	31.42	10.20	41.62	60.00	-18.38	peak	

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

●Reference Only

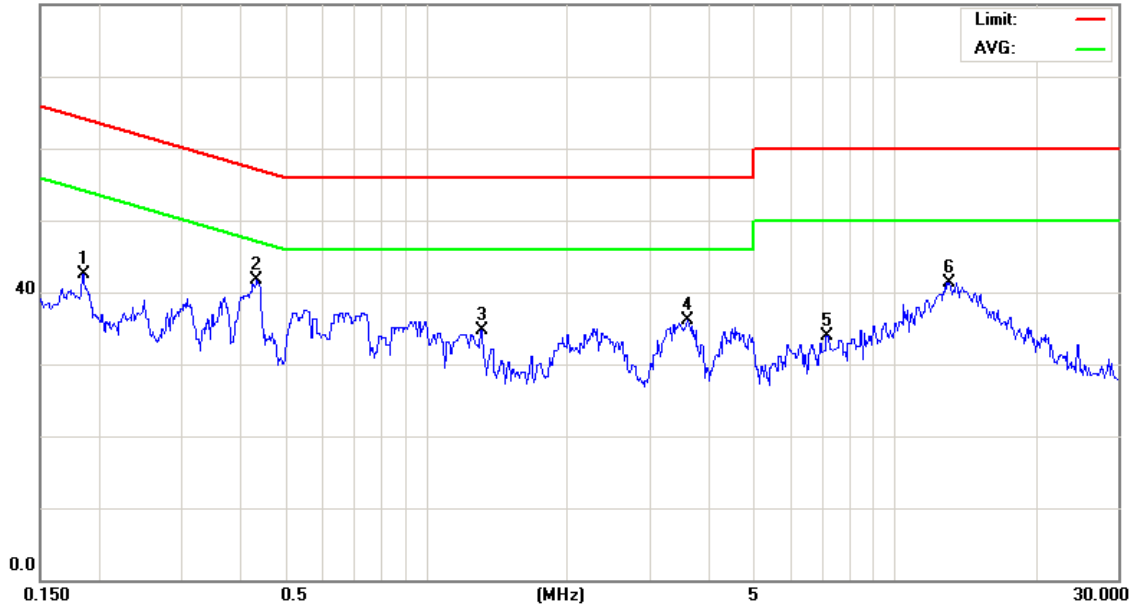
File :Raymond 103(WIFI-11g)

Data :#6

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WIFI (11G)

Note: AC mode CH11

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1850	32.73	9.74	42.47	64.25	-21.78	peak	
2	*	0.4349	31.89	9.78	41.67	57.16	-15.49	peak	
3		1.3099	24.81	9.82	34.63	56.00	-21.37	peak	
4		3.6050	26.23	9.93	36.16	56.00	-19.84	peak	
5		7.1500	23.77	10.09	33.86	60.00	-26.14	peak	
6		13.0000	31.13	10.19	41.32	60.00	-18.68	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:

The EUT was setup to ANSI C63.4, 2003; tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

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 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	May. 28, 2007	May. 28, 2008
Pre Amplifier	Agilent	8449B	3008A02237	May. 28, 2007	May. 28, 2008
Pre Amplifier	Agilent	8447D	2944A10961	Jun. 09, 2007	Jun. 09, 2008
Test Receiver	R&S	ESCI	100367	May. 23, 2007	May. 23, 2008
Biconilog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	Jun. 26, 2007	Jun. 26, 2008
Horn Antenna	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	Jun. 26, 2007	Jun. 26, 2008
Horn Antenna	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	Jun. 09, 2007	Jun. 09, 2008
Horn Antenna	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120E	0899	Jun. 26, 2007	Jun. 26, 2008

3.3 Test Configuration:

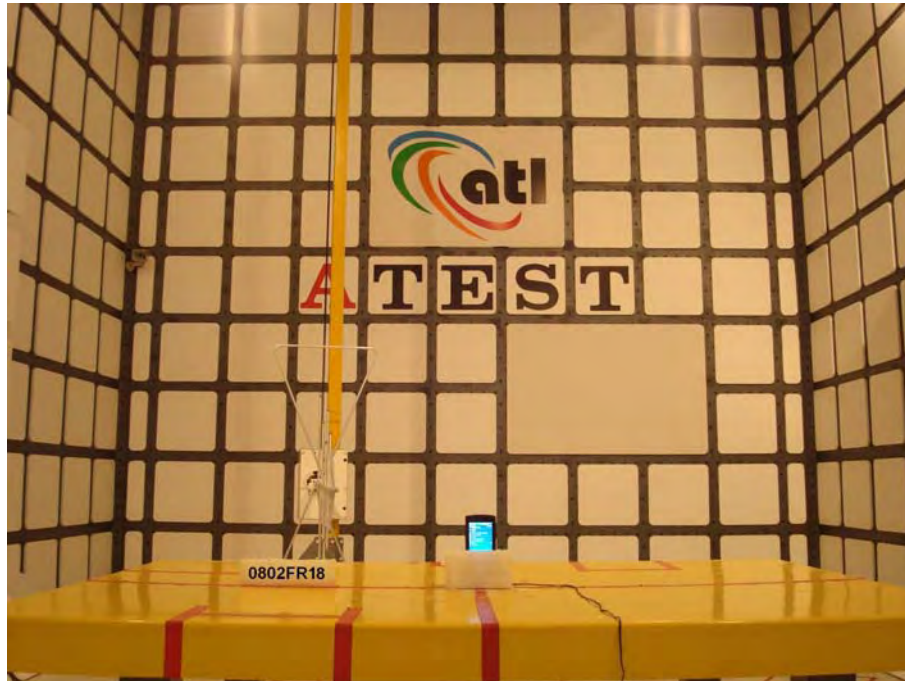


Figure 3. Front View of the Test Configuration



Figure 4. Rear View of the Test Configuration



Figure 5. Front View of the Test Configuration



Figure 6. 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 : Inventec Corporation
Model No : Velocity 103
EUT : PDA PHONE
Test Mode : AC Adapter _ 802.11b CH1 2412.000 (Local Frequency: 2412.000 MHz)
Test Date : 04/22~30/2008

Please refer to next pager of detail testing data.

Notes:

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



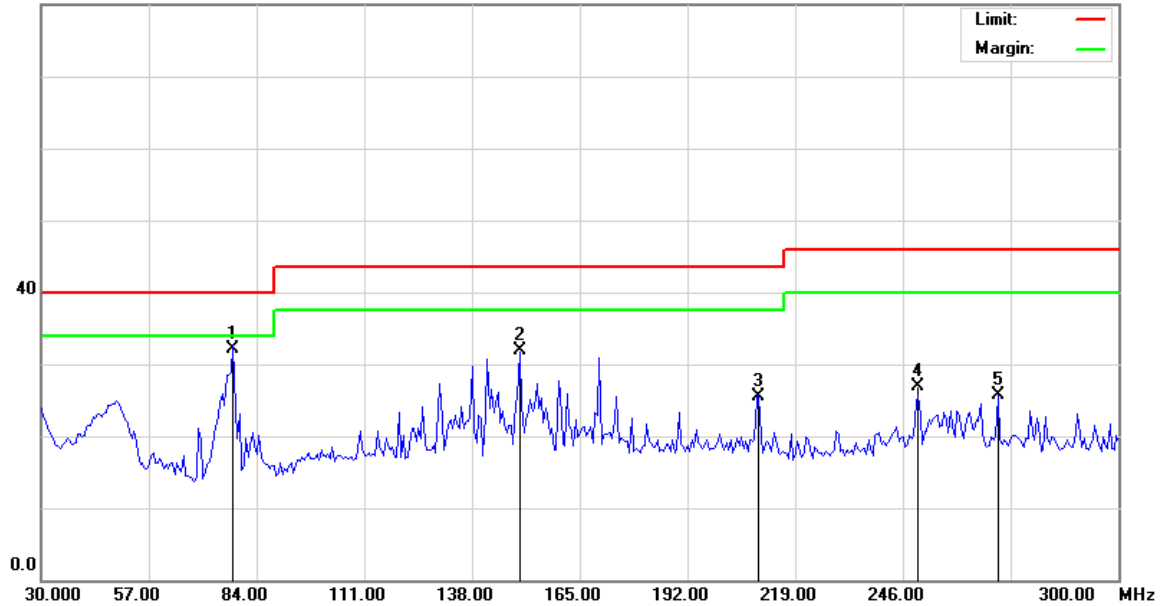
File :Raymond 103(11b)

Data :#1

Date: 2008/4/22

Time:

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:

Mode: 11b

Note: AC mode 2412MHz

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	*	78.0600	48.92	-16.79	32.13	40.00	-7.87	peak		
2		149.8800	48.00	-16.01	31.99	43.50	-11.51	peak		
3		209.8200	38.36	-12.78	25.58	43.50	-17.92	peak		
4		249.7800	37.65	-10.84	26.81	46.00	-19.19	peak		
5		269.7600	36.67	-10.94	25.73	46.00	-20.27	peak		

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

●Reference Only



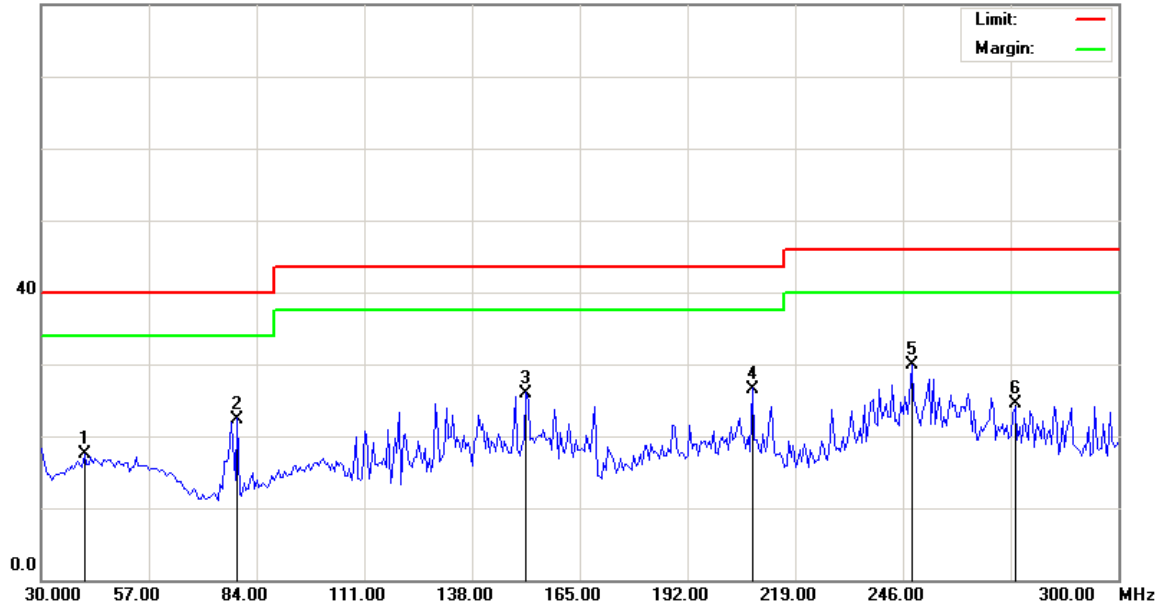
File :Raymond 103(11b)

Data :#3

Date: 2008/4/22

Time:

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:

Mode: 11b

Note: AC mode 2412MHz

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		40.8000	29.31	-11.88	17.43	40.00	-22.57	peak		
2		79.1400	38.92	-16.66	22.26	40.00	-17.74	peak		
3		151.5000	41.89	-15.98	25.91	43.50	-17.59	peak		
4		208.2000	39.46	-12.87	26.59	43.50	-16.91	peak		
5	*	248.1600	40.90	-10.99	29.91	46.00	-16.09	peak		
6		274.0799	35.35	-10.82	24.53	46.00	-21.47	peak		

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

●Reference Only



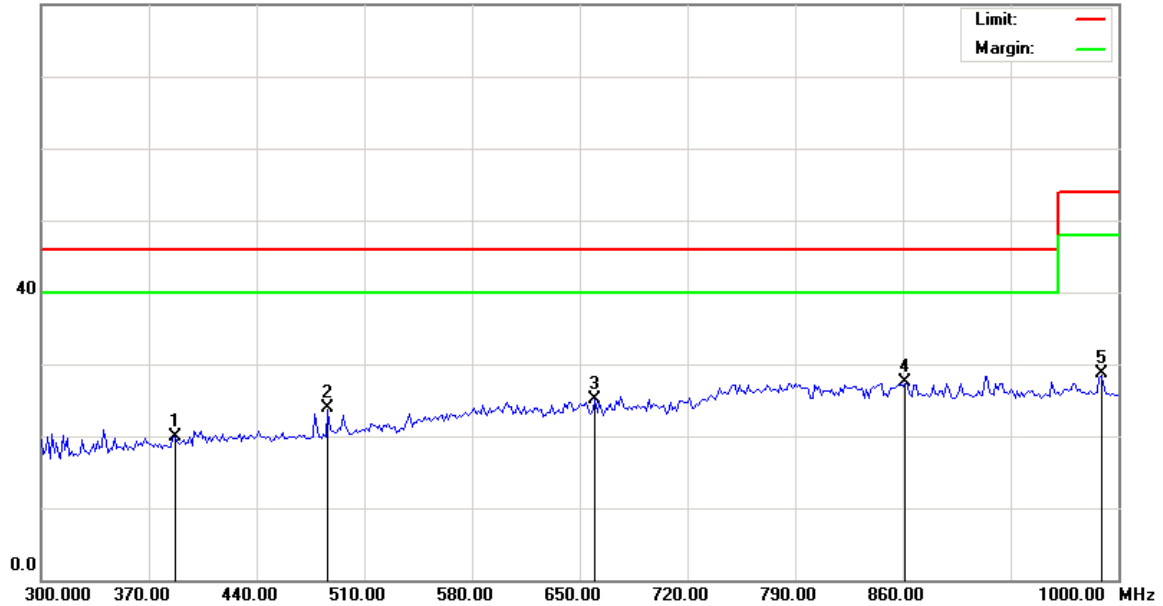
File :Raymond 103(11b)

Data :#2

Date: 2008/4/22

Time:

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:

Mode: 11b

Note: AC mode 2412MHz

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		386.8000	28.37	-8.54	19.83	46.00	-26.17	peak		
2		486.2000	31.38	-7.42	23.96	46.00	-22.04	peak		
3		659.8000	29.44	-4.32	25.12	46.00	-20.88	peak		
4	*	861.4000	28.40	-0.89	27.51	46.00	-18.49	peak		
5		988.8000	27.83	0.84	28.67	54.00	-25.33	peak		

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

●Reference Only



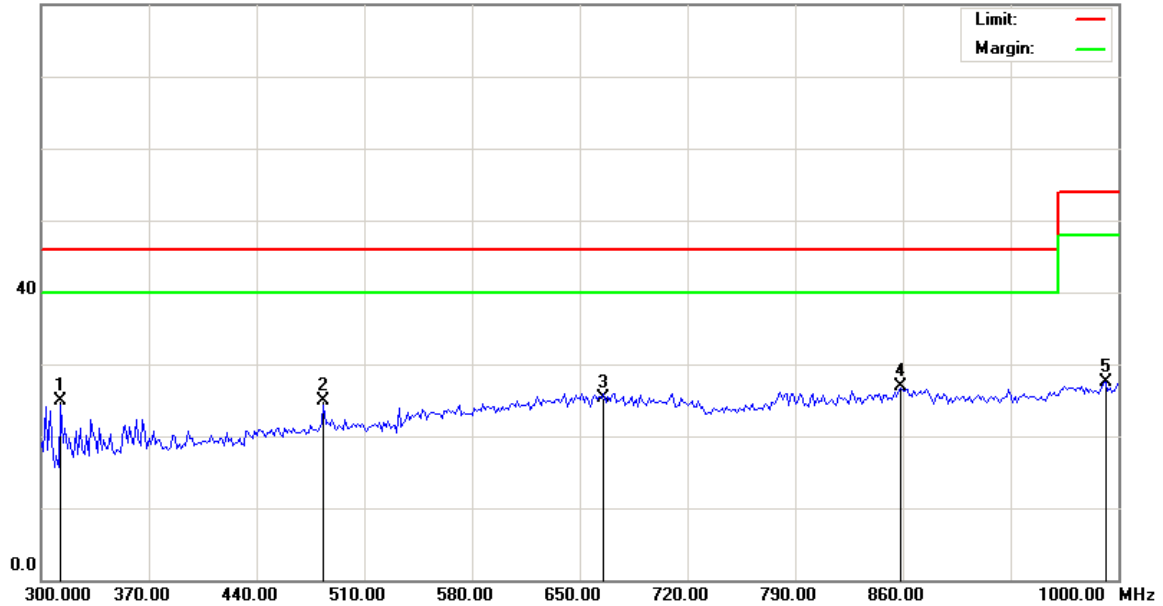
File :Raymond 103(11b)

Data :#4

Date: 2008/4/22

Time:

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:

Mode: 11b

Note: AC mode 2412MHz

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		312.6000	34.65	-9.79	24.86	46.00	-21.14	peak		
2		483.4000	32.41	-7.48	24.93	46.00	-21.07	peak		
3		665.4000	29.74	-4.45	25.29	46.00	-20.71	peak		
4	*	858.6000	27.93	-1.12	26.81	46.00	-19.19	peak		
5		991.6000	26.56	0.89	27.45	54.00	-26.55	peak		

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

●Reference Only



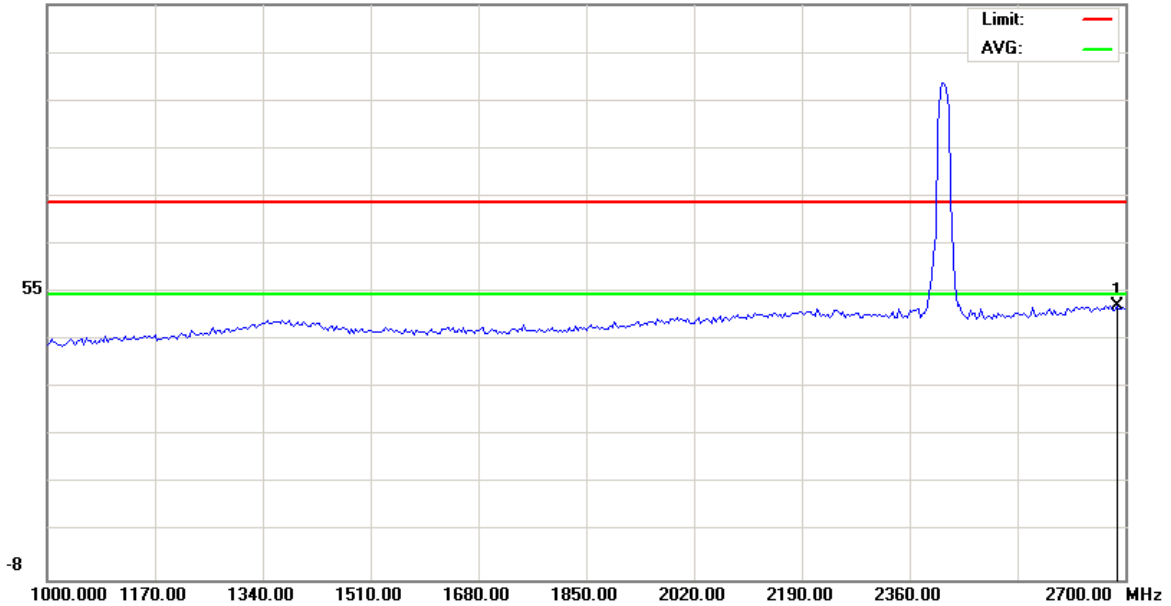
File :Raymond 103(CH2412)

Data :#1

Date: 2008/4/29

Time:

117.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11b)

Note: CH01(2412MHz)

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	*	2686.400	50.56	1.02	51.58	74.00	-22.42	peak		

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

●Reference Only



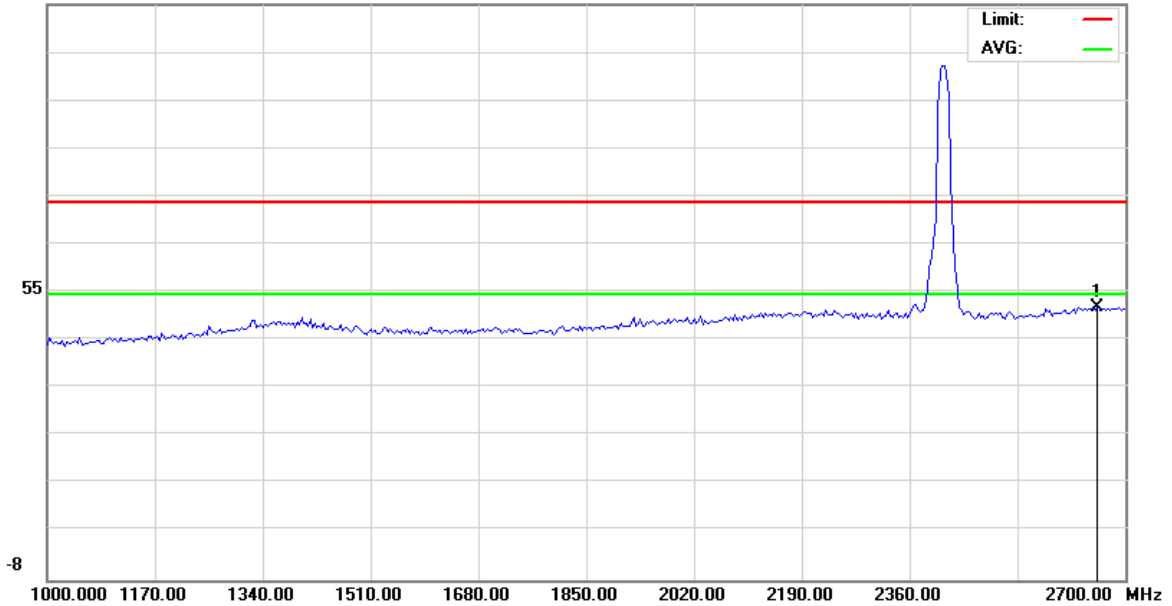
File :Raymond 103(CH2412)

Data :#3

Date: 2008/4/29

Time:

117.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11b)

Note: CH01(2412MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1	*	2655.800	50.35	0.94	51.29	74.00	-22.71	peak		

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

●Reference Only



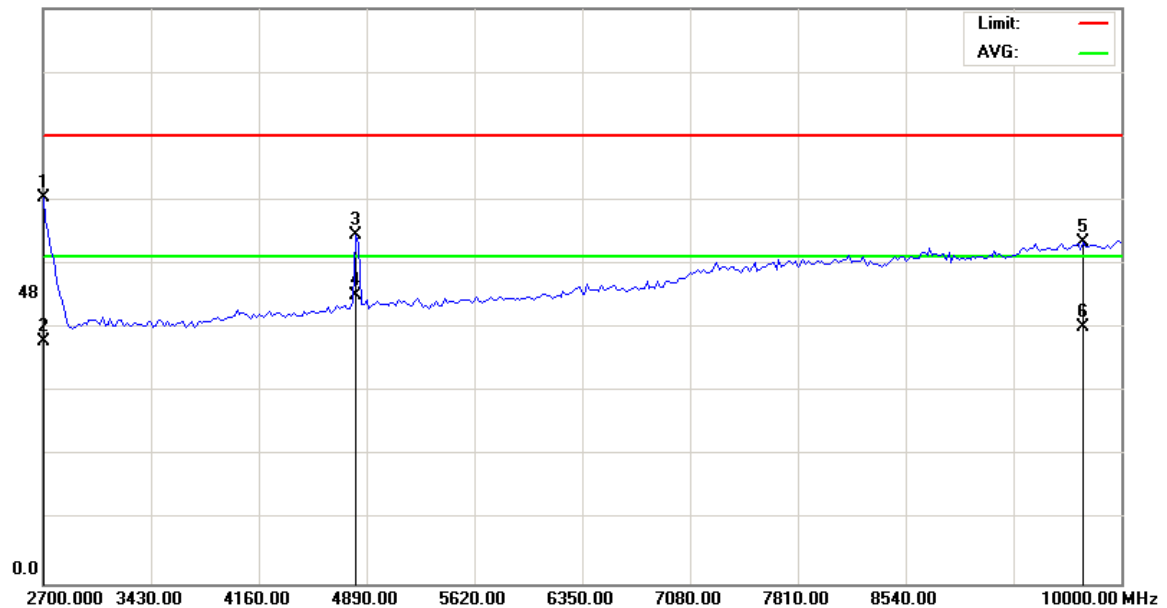
File :Raymond 103(CH2412)

Data :#5

Date: 2008/04/29

Time:

95.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11b)

Note: CH01(2412MHz)

2.7G-10G PK Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

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		2700.000	41.08	22.58	63.66	74.00	-10.34	peak			
2		2700.000	17.55	22.58	40.13	54.00	-13.87	AVG			
3		4817.000	50.21	7.42	57.63	74.00	-16.37	peak			
4	*	4817.000	40.13	7.42	47.55	54.00	-6.45	AVG			
5		9744.500	38.69	17.69	56.38	74.00	-17.62	peak			
6		9744.500	24.80	17.69	42.49	54.00	-11.51	AVG			

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

●Reference Only



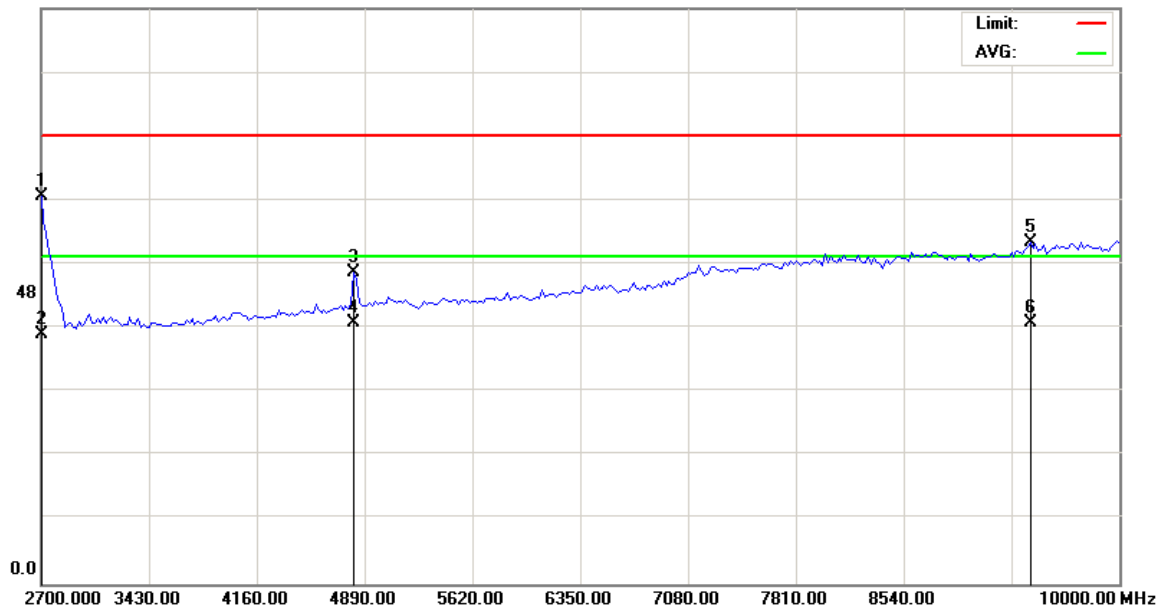
File :Raymond 103(CH2412)

Data :#7

Date: 2008/4/30

Time:

95.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11b)

Note: CH01(2412MHz)

2.7G-10G PK Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

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	*	2700.000	41.44	22.58	64.02	74.00	-9.98	peak			
2		2700.000	18.57	22.58	41.15	54.00	-12.85	AVG			
3		4817.000	44.07	7.42	51.49	74.00	-22.51	peak			
4		4817.000	35.57	7.42	42.99	54.00	-11.01	AVG			
5		9397.750	39.45	17.07	56.52	74.00	-17.48	peak			
6		9397.750	25.95	17.07	43.02	54.00	-10.98	AVG			

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

●Reference Only



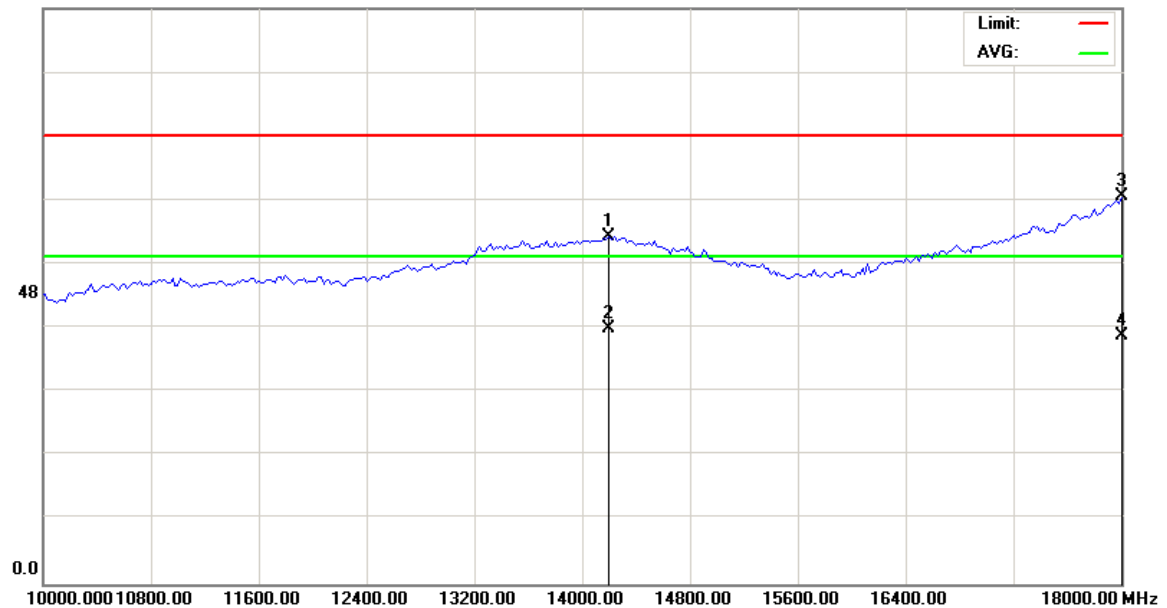
File :Raymond 103(CH2412)

Data :#9

Date: 2008/4/30

Time:

95.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11b)

Note: CH01(2412MHz)

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		14200.00	38.55	18.86	57.41	74.00	-16.59	peak		
2		14200.00	23.23	18.86	42.09	54.00	-11.91	AVG		
3	*	18000.00	38.41	25.57	63.98	74.00	-10.02	peak		
4		18000.00	15.29	25.57	40.86	54.00	-13.14	AVG		

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

●Reference Only



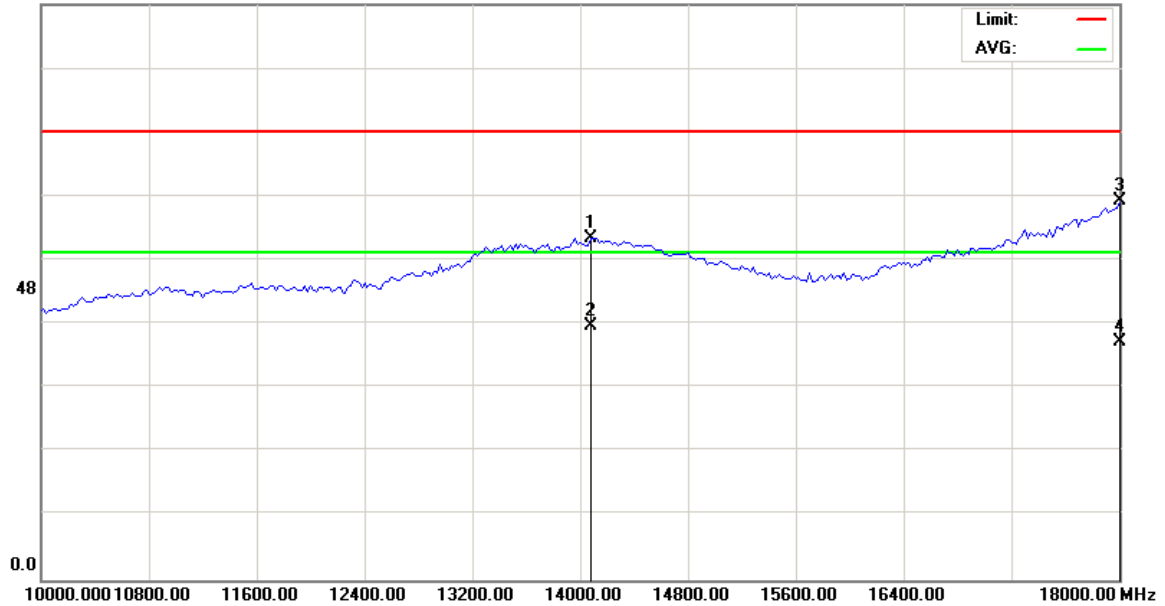
File :Raymond 103(CH2412)

Data :#11

Date: 2008/04/30

Time:

95.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11b)

Note: CH01(2412MHz)

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		14080.00	37.69	18.81	56.50	74.00	-17.50	peak		
2		14080.00	23.18	18.81	41.99	54.00	-12.01	AVG		
3	*	18000.00	36.95	25.57	62.52	74.00	-11.48	peak		
4		18000.00	13.64	25.57	39.21	54.00	-14.79	AVG		

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

●Reference Only



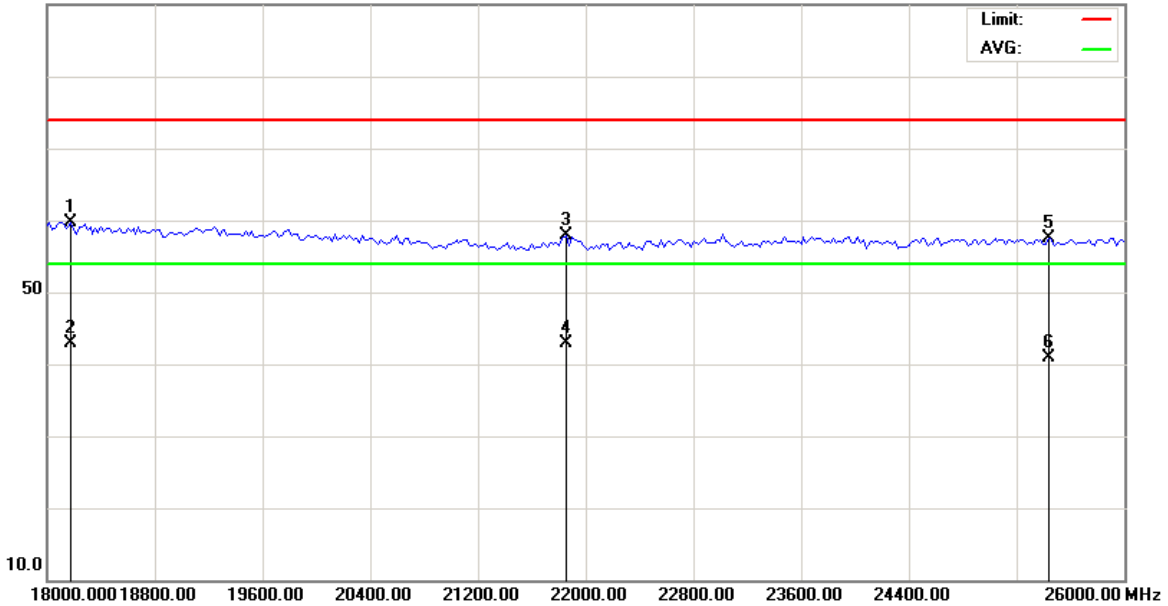
File :Raymond 103(CH2412)

Data :#13

Date: 2008/04/30

Time:

90.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11b)

Note: CH01(2412MHz)

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		18180.00	25.33	34.34	59.67	74.00	-14.33	peak			
2	*	18180.00	8.61	34.34	42.95	54.00	-11.05	AVG			
3		21860.00	27.03	30.94	57.97	74.00	-16.03	peak			
4		21860.00	11.89	30.94	42.83	54.00	-11.17	AVG			
5		25440.00	28.99	28.50	57.49	74.00	-16.51	peak			
6		25440.00	12.35	28.50	40.85	54.00	-13.15	AVG			

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

●Reference Only



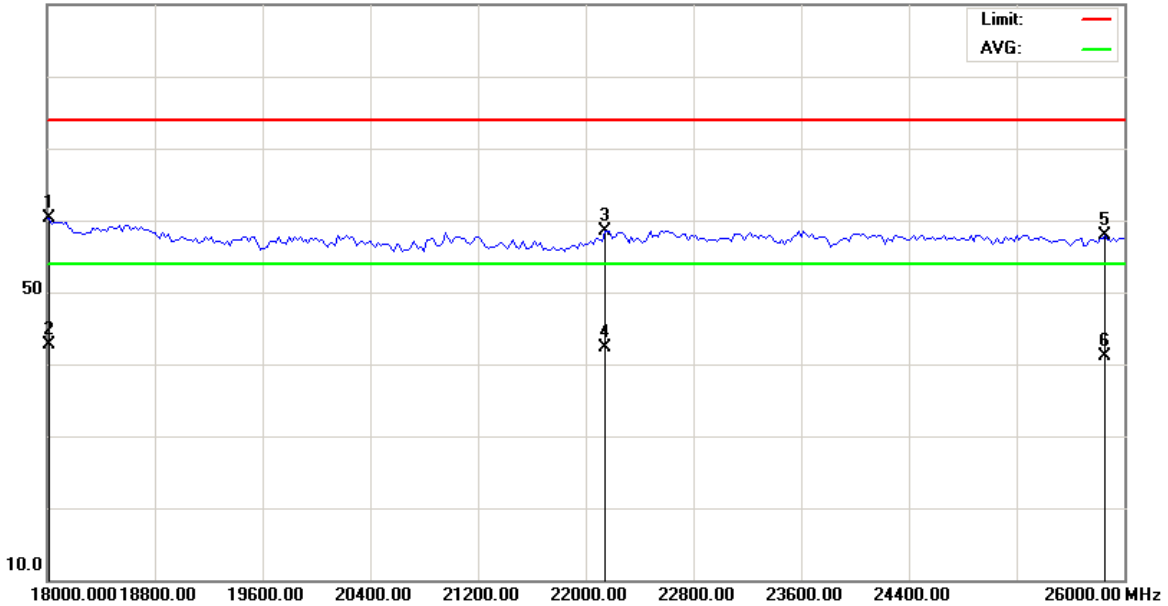
File :Raymond 103(CH2412)

Data :#14

Date: 2008/04/30

Time:

90.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11b)

Note: CH01(2412MHz)

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		18020.00	26.38	33.99	60.37	74.00	-13.63	peak			
2	*	18020.00	8.69	33.99	42.68	54.00	-11.32	AVG			
3		22140.00	27.82	30.76	58.58	74.00	-15.42	peak			
4		22140.00	11.57	30.76	42.33	54.00	-11.67	AVG			
5		25860.00	29.73	28.21	57.94	74.00	-16.06	peak			
6		25860.00	12.91	28.21	41.12	54.00	-12.88	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 : Inventec Corporation
Model No : Velocity 103
EUT : PDA PHONE
Test Mode : AC Adapter _ 802.11b CH6 2437.000 (Local Frequency: 2437.000 MHz)
Test Date : 04/22~30/2008

Please refer to next pager of detail testing data.

Notes:

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



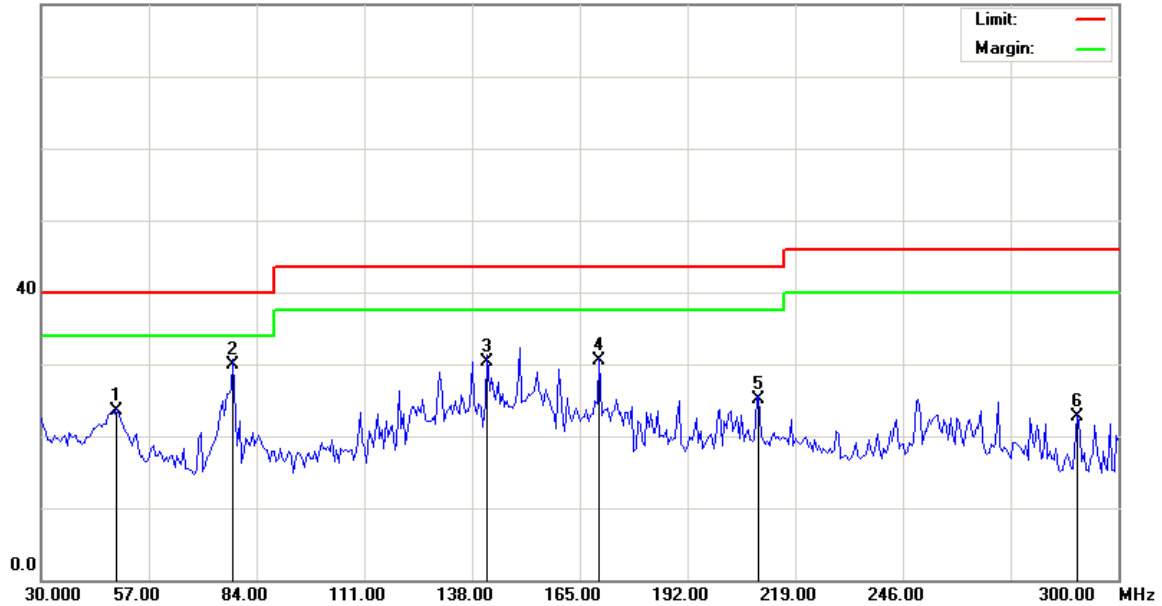
File :Raymond 103(11b)

Data :#5

Date: 2008/4/22

Time:

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:

Mode: 11b

Note: AC mode 2437MHz

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		48.9000	35.66	-12.08	23.58	40.00	-16.42	peak		
2	*	78.0600	46.72	-16.79	29.93	40.00	-10.07	peak		
3		141.7800	46.57	-16.29	30.28	43.50	-13.22	peak		
4		169.8600	45.92	-15.41	30.51	43.50	-12.99	peak		
5		209.8200	37.91	-12.78	25.13	43.50	-18.37	peak		
6		289.7400	32.82	-10.03	22.79	46.00	-23.21	peak		

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

●Reference Only



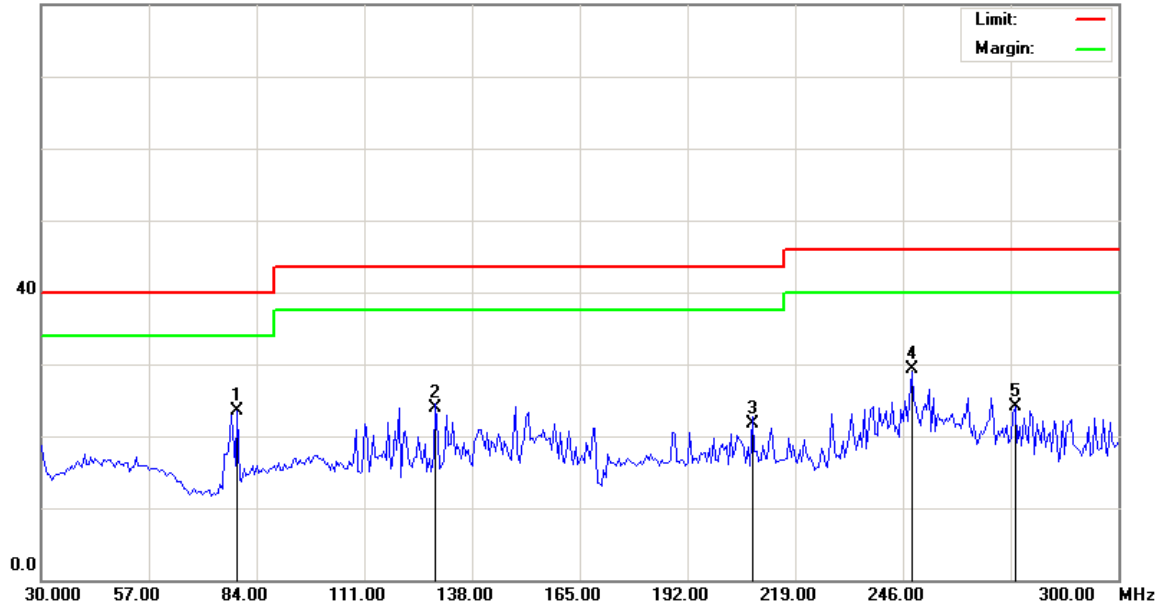
File :Raymond 103(11b)

Data :#7

Date: 2008/4/22

Time:

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:

Mode: 11b

Note: AC mode 2437MHz

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	*	79.1400	40.08	-16.66	23.42	40.00	-16.58	peak		
2		128.8200	39.47	-15.50	23.97	43.50	-19.53	peak		
3		208.2000	34.64	-12.87	21.77	43.50	-21.73	peak		
4		248.1600	40.30	-10.99	29.31	46.00	-16.69	peak		
5		274.0799	34.95	-10.82	24.13	46.00	-21.87	peak		

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

●Reference Only



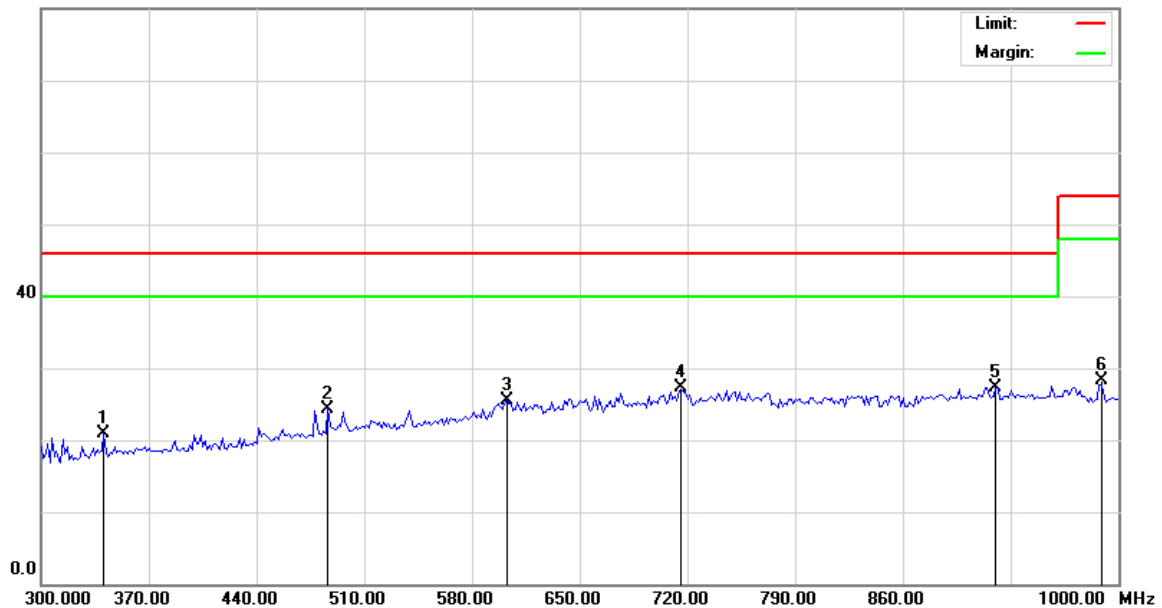
File :Raymond 103(11b)

Data :#6

Date: 2008/4/22

Time:

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:

Mode: 11b

Note: AC mode 2437MHz

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		340.6000	29.80	-8.97	20.83	46.00	-25.17	peak		
2		486.2000	31.81	-7.42	24.39	46.00	-21.61	peak		
3		602.4000	30.18	-4.75	25.43	46.00	-20.57	peak		
4		715.8000	30.88	-3.59	27.29	46.00	-18.71	peak		
5	*	920.2000	27.66	-0.29	27.37	46.00	-18.63	peak		
6		988.8000	27.47	0.84	28.31	54.00	-25.69	peak		

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

●Reference Only



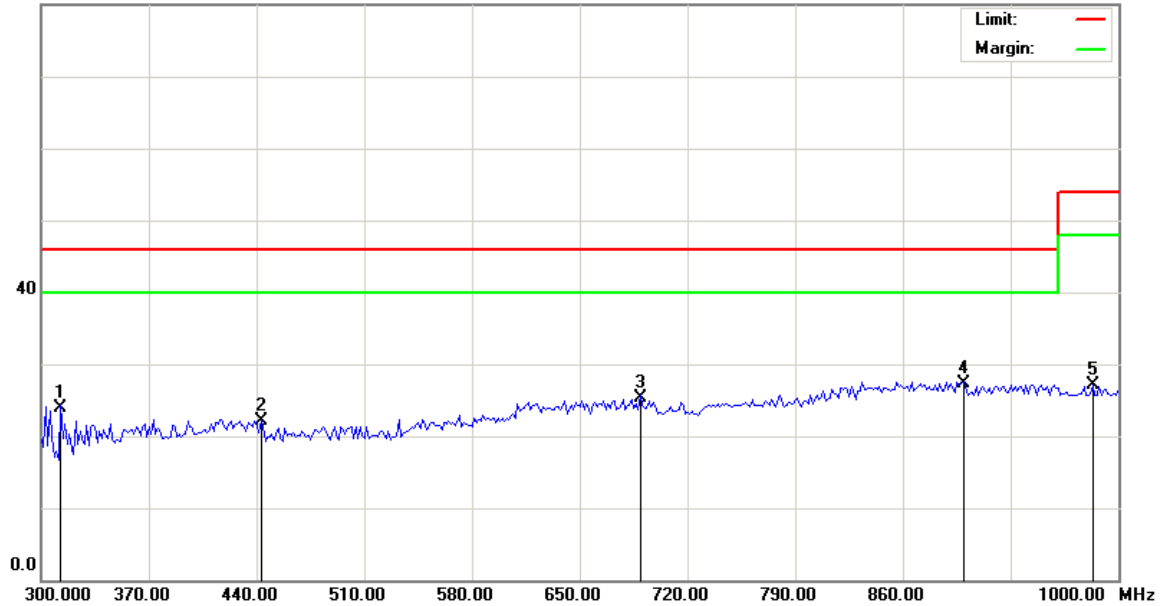
File :Raymond 103(11b)

Data :#8

Date: 2008/4/22

Time:

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:

Mode: 11b

Note: AC mode 2437MHz

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		312.6000	33.78	-9.79	23.99	46.00	-22.01	peak		
2		442.8000	30.15	-8.02	22.13	46.00	-23.87	peak		
3		689.2000	29.54	-4.25	25.29	46.00	-20.71	peak		
4	*	899.2000	27.75	-0.39	27.36	46.00	-18.64	peak		
5		983.2000	26.51	0.50	27.01	54.00	-26.99	peak		

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

●Reference Only



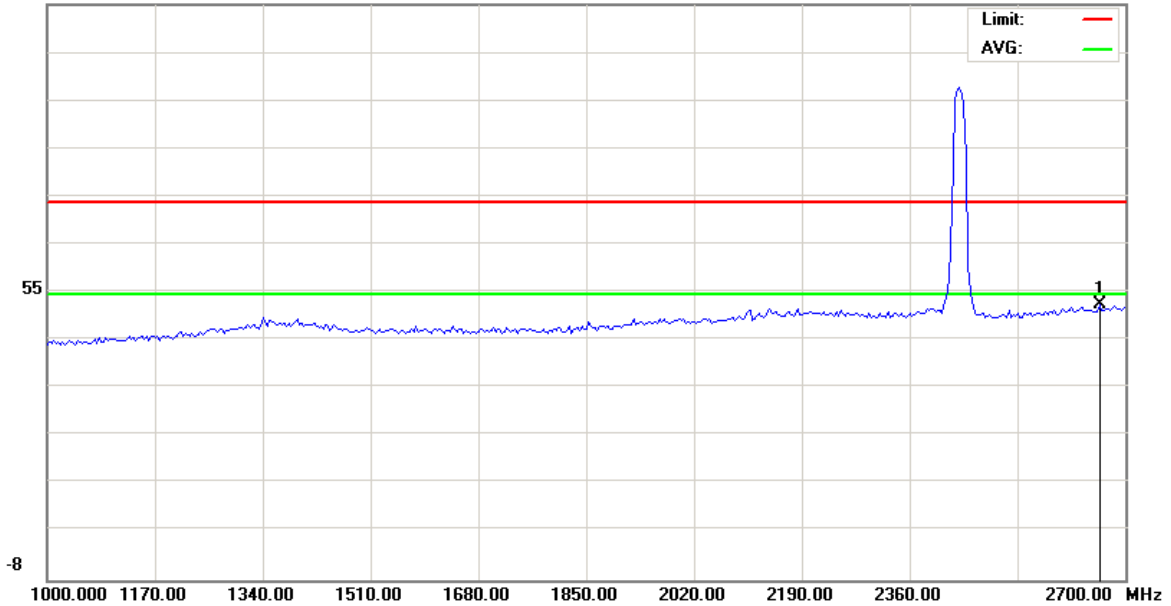
File :Raymond 103(CH2437)

Data :#1

Date: 2008/4/29

Time:

117.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11b)

Note: CH06(2437MHz)

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	*	2659.200	51.02	0.92	51.94	74.00	-22.06	peak		

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

●Reference Only



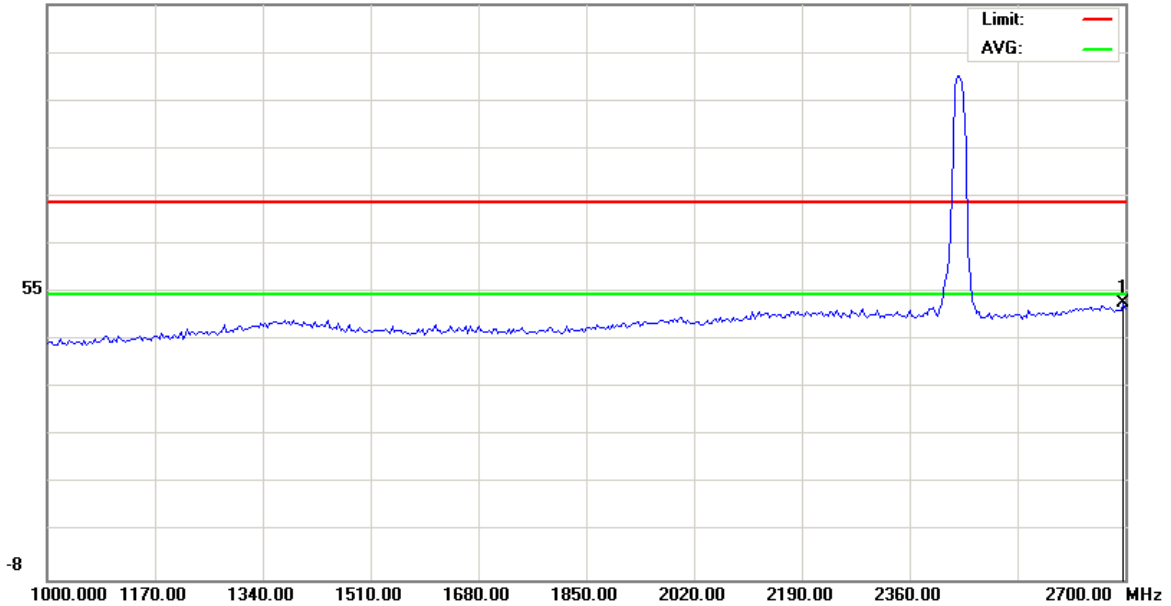
File :Raymond 103(CH2437)

Data :#3

Date: 2008/4/29

Time:

117.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11b)

Note: CH06(2437MHz)

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	*	2696.600	51.25	0.90	52.15	74.00	-21.85	peak		

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

●Reference Only



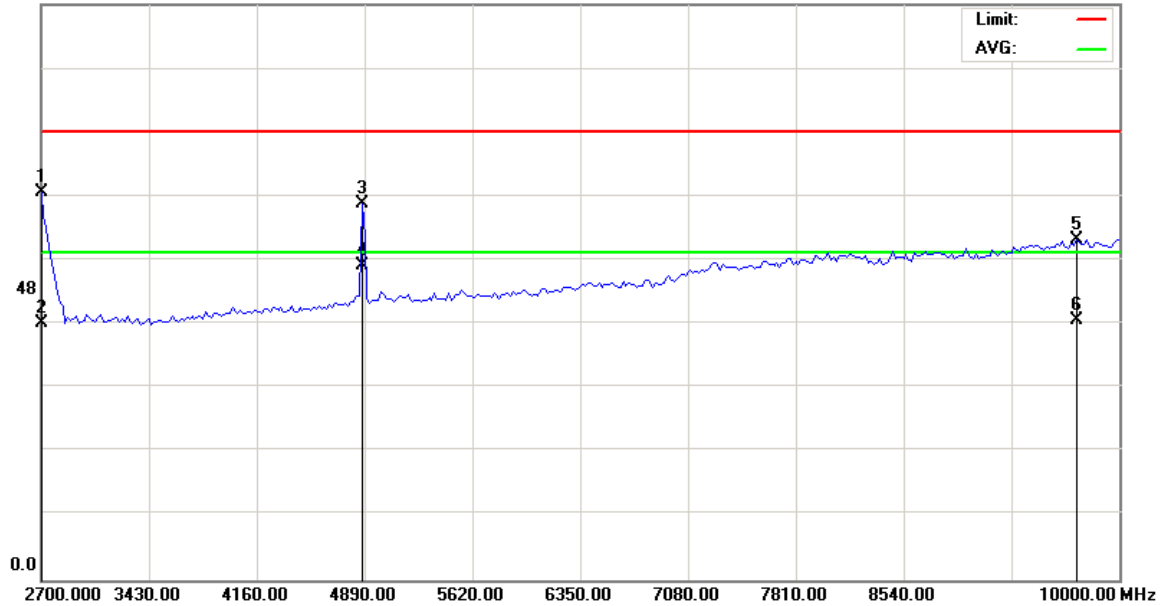
File :Raymond 103(CH2437)

Data :#5

Date: 2008-4-30

Time:

95.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11b)

Note: CH06(2437MHz)

2.7G-10G PK Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

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		2700.000	41.42	22.58	64.00	74.00	-10.00	peak			
2		2700.000	19.76	22.58	42.34	54.00	-11.66	AVG			
3		4871.750	54.33	7.72	62.05	74.00	-11.95	peak			
4	*	4871.750	44.07	7.72	51.79	54.00	-2.21	AVG			
5		9708.000	38.74	17.49	56.23	74.00	-17.77	peak			
6		9708.000	25.31	17.49	42.80	54.00	-11.20	AVG			

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

●Reference Only



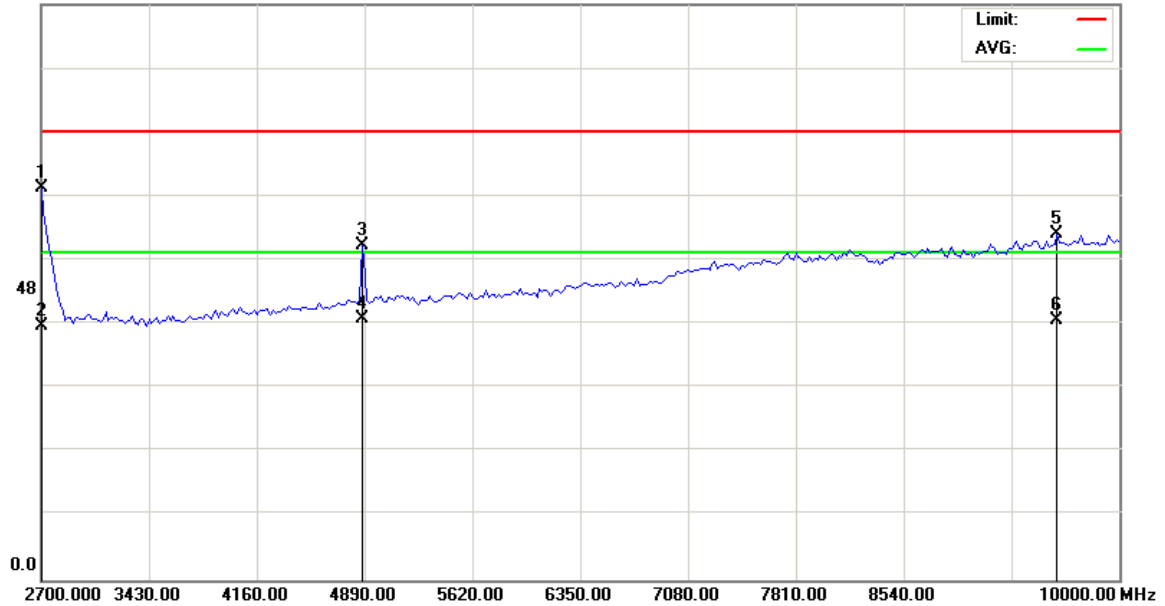
File :Raymond 103(CH2437)

Data :#7

Date: 2008/4/30

Time:

95.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11b)

Note: CH06(2437MHz)

2.7G-10G PK Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

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	*	2700.000	42.12	22.58	64.70	74.00	-9.30	peak			
2		2700.000	19.29	22.58	41.87	54.00	-12.13	AVG			
3		4871.750	47.40	7.72	55.12	74.00	-18.88	peak			
4		4871.750	35.47	7.72	43.19	54.00	-10.81	AVG			
5		9580.250	39.80	17.31	57.11	74.00	-16.89	peak			
6		9580.250	25.63	17.31	42.94	54.00	-11.06	AVG			

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

●Reference Only



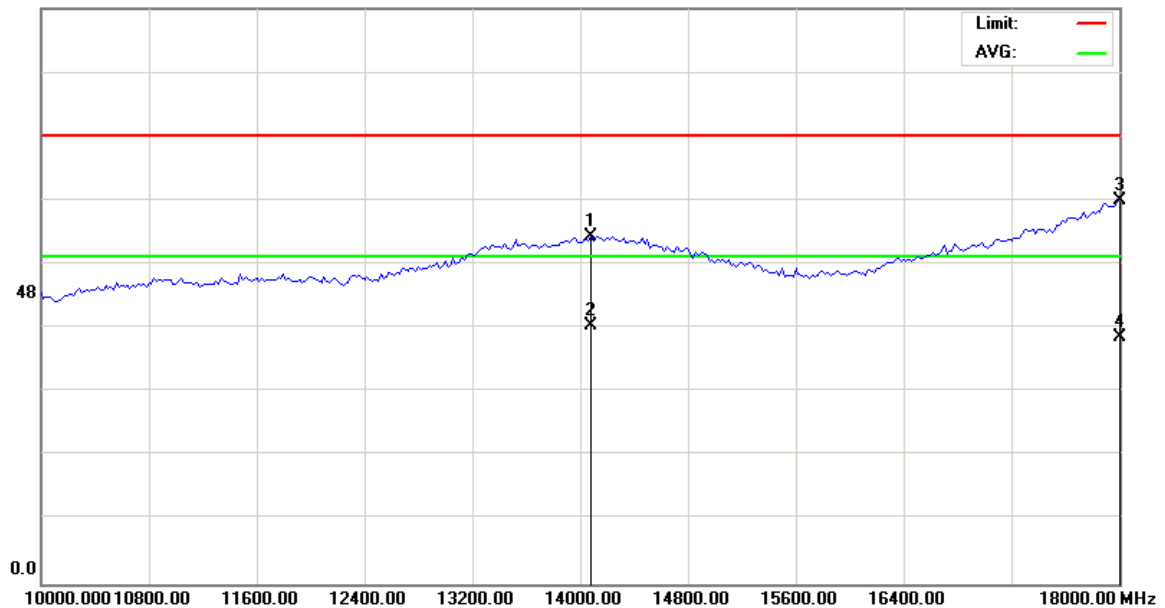
File :Raymond 103(CH2437)

Data :#9

Date: 2008/4/30

Time:

95.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11b)

Note: CH06(2437MHz)

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		14080.00	38.56	18.81	57.37	74.00	-16.63	peak		
2		14080.00	23.78	18.81	42.59	54.00	-11.41	AVG		
3	*	18000.00	37.68	25.57	63.25	74.00	-10.75	peak		
4		18000.00	15.15	25.57	40.72	54.00	-13.28	AVG		

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

●Reference Only



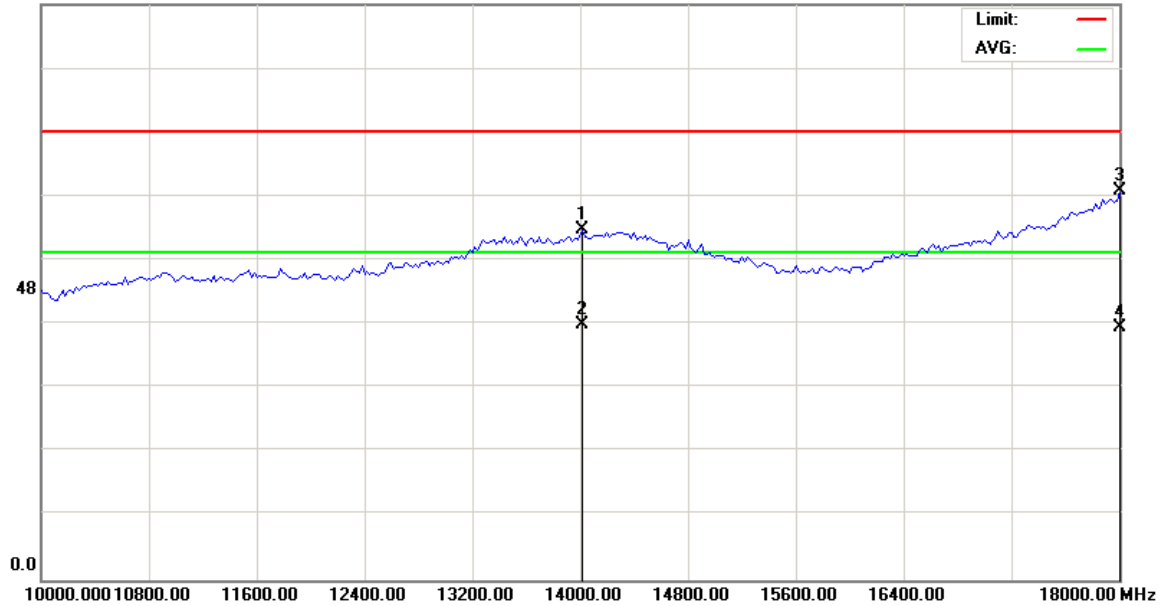
File :Raymond 103(CH2437)

Data :#11

Date: 2008/4/30

Time:

95.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11b)

Note: CH06(2437MHz)

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		14020.00	39.05	18.67	57.72	74.00	-16.28	peak		
2		14020.00	23.42	18.67	42.09	54.00	-11.91	AVG		
3	*	18000.00	38.59	25.57	64.16	74.00	-9.84	peak		
4		18000.00	16.12	25.57	41.69	54.00	-12.31	AVG		

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

●Reference Only



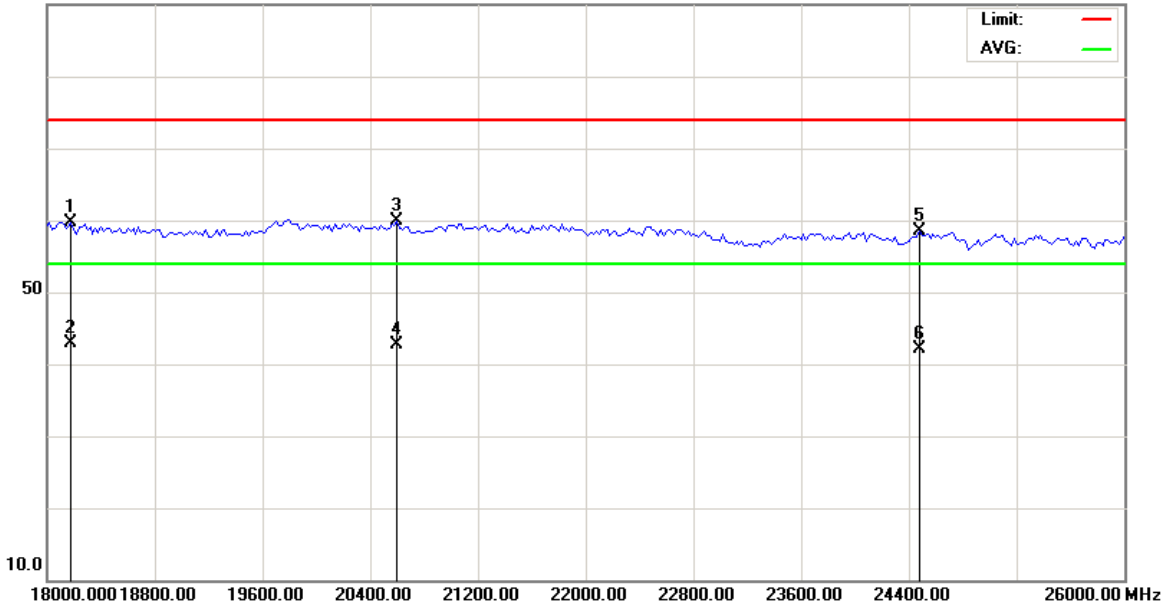
File :Raymond 103(CH2437)

Data :#13

Date: 2008/4/30

Time:

90.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11b)

Note: CH06(2437MHz)

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		18180.00	25.33	34.34	59.67	74.00	-14.33	peak			
2	*	18180.00	8.51	34.34	42.85	54.00	-11.15	AVG			
3		20600.00	28.09	31.80	59.89	74.00	-14.11	peak			
4		20600.00	10.97	31.80	42.77	54.00	-11.23	AVG			
5		24480.00	29.28	29.16	58.44	74.00	-15.56	peak			
6		24480.00	12.86	29.16	42.02	54.00	-11.98	AVG			

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

●Reference Only



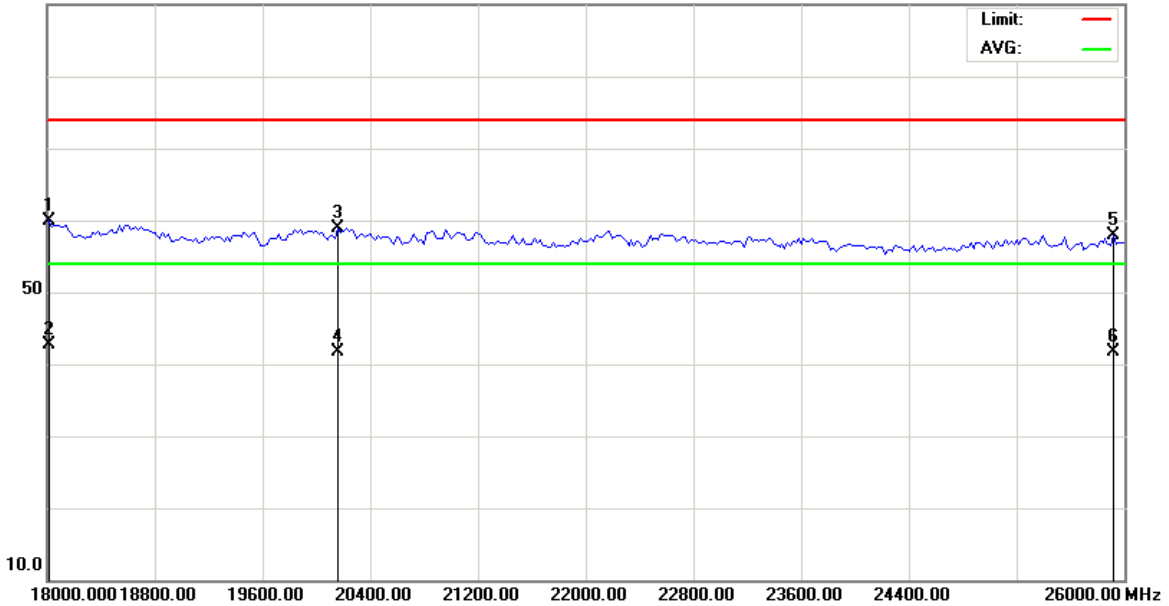
File :Raymond 103(CH2437)

Data :#14

Date: 2008/4/30

Time:

90.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11b)

Note: CH06(2437MHz)

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		18020.00	25.88	33.99	59.87	74.00	-14.13	peak			
2	*	18020.00	8.63	33.99	42.62	54.00	-11.38	AVG			
3		20160.00	26.84	32.10	58.94	74.00	-15.06	peak			
4		20160.00	9.69	32.10	41.79	54.00	-12.21	AVG			
5		25920.00	29.82	28.17	57.99	74.00	-16.01	peak			
6		25920.00	13.57	28.17	41.74	54.00	-12.26	AVG			

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

●Reference Only



3.6.3 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 : Inventec Corporation
Model No : Velocity 103
EUT : PDA PHONE
Test Mode : AC Adapter _ 802.11b CH11 2462.000 (Local Frequency: 2462.000 MHz)
Test Date : 04/22~30/2008

Please refer to next pager of detail testing data.

Notes:

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



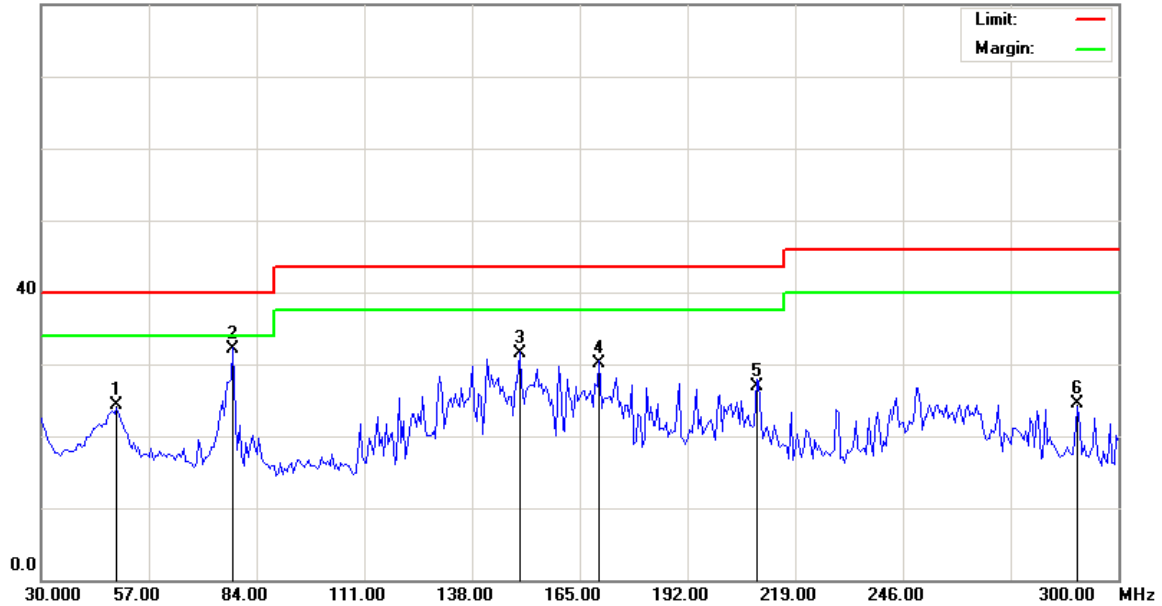
File :Raymond 103(11b)

Data :#9

Date: 2008/4/22

Time:

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:

Mode: 11b

Note: AC mode 2462MHz

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		48.9000	36.46	-12.08	24.38	40.00	-15.62	peak		
2	*	78.0600	48.88	-16.79	32.09	40.00	-7.91	peak		
3		149.8800	47.57	-16.01	31.56	43.50	-11.94	peak		
4		169.8600	45.44	-15.41	30.03	43.50	-13.47	peak		
5		209.2800	39.63	-12.82	26.81	43.50	-16.69	peak		
6		289.7400	34.62	-10.03	24.59	46.00	-21.41	peak		

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

●Reference Only



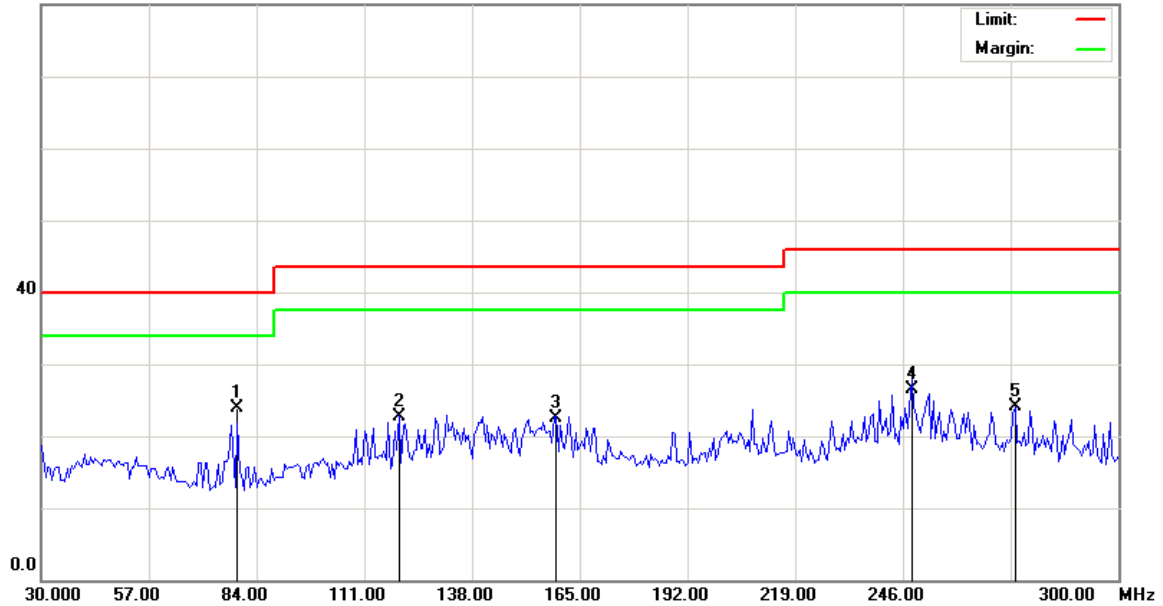
File :Raymond 103(11b)

Data :#11

Date: 2008/4/22

Time:

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:

Mode: 11b

Note: AC mode 2462MHz

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	*	79.1400	40.52	-16.66	23.86	40.00	-16.14	peak		
2		119.6400	36.75	-14.14	22.61	43.50	-20.89	peak		
3		159.0600	38.13	-15.57	22.56	43.50	-20.94	peak		
4		248.1600	37.41	-10.99	26.42	46.00	-19.58	peak		
5		274.0799	34.90	-10.82	24.08	46.00	-21.92	peak		

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

●Reference Only



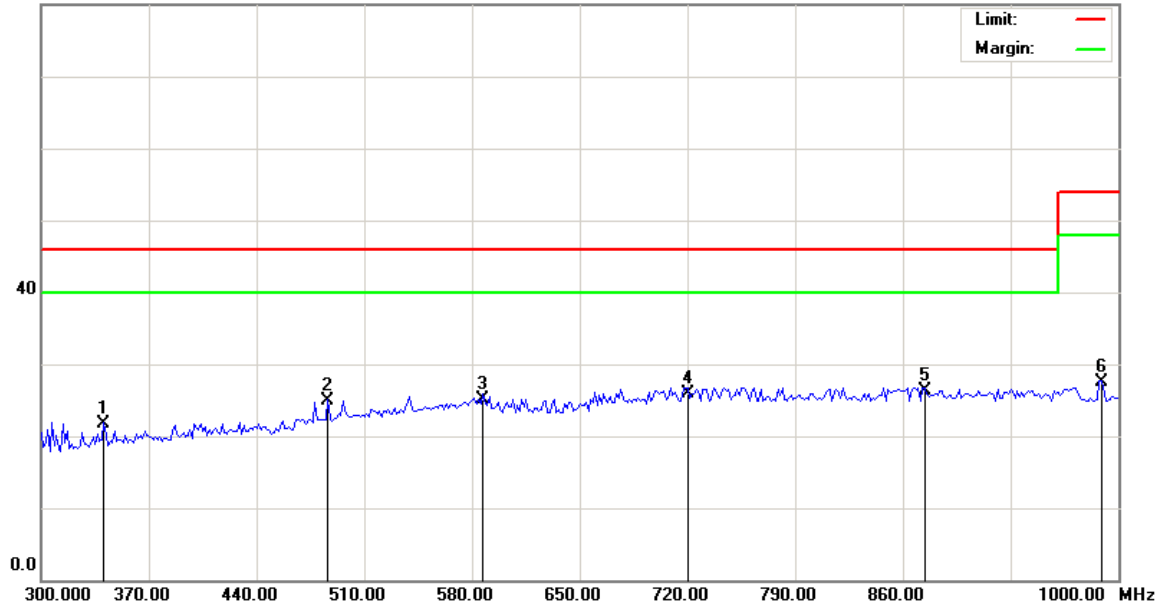
File :Raymond 103(11b)

Data :#10

Date: 2008/4/22

Time:

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:

Mode: 11b

Note: AC mode 2462MHz

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		340.6000	30.64	-8.97	21.67	46.00	-24.33	peak		
2		486.2000	32.31	-7.42	24.89	46.00	-21.11	peak		
3		587.0000	30.23	-5.10	25.13	46.00	-20.87	peak		
4		720.0000	29.52	-3.55	25.97	46.00	-20.03	peak		
5	*	874.0000	27.10	-0.82	26.28	46.00	-19.72	peak		
6		988.8000	26.69	0.84	27.53	54.00	-26.47	peak		

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

●Reference Only



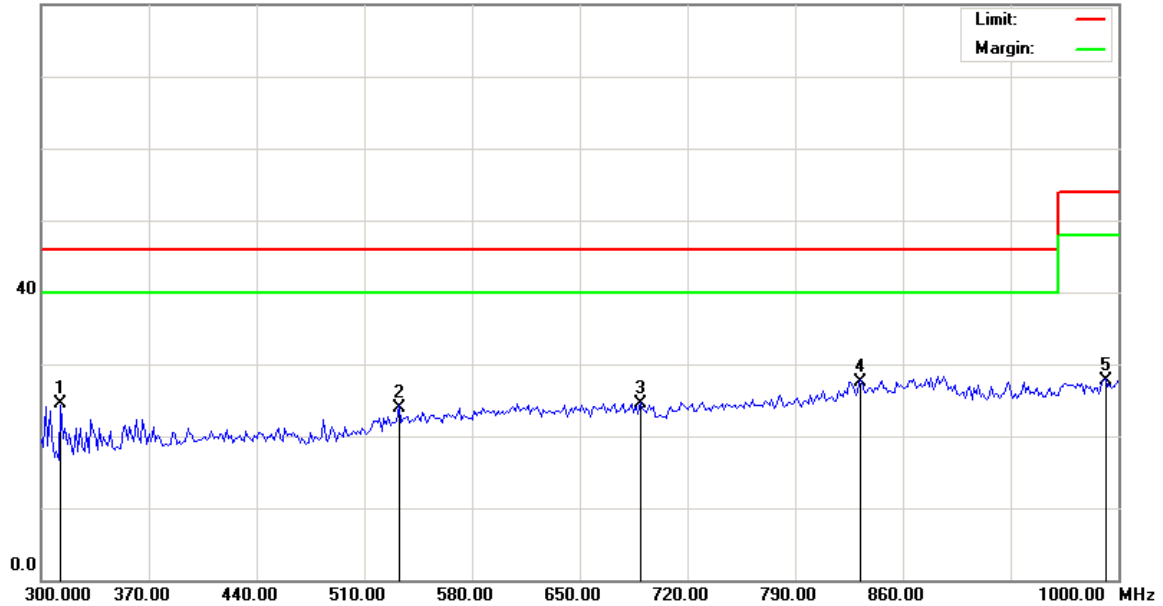
File :Raymond 103(11b)

Data :#12

Date: 2008/4/22

Time:

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:

Mode: 11b

Note: AC mode 2462MHz

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		312.6000	34.32	-9.79	24.53	46.00	-21.47	peak		
2		532.4000	30.25	-6.33	23.92	46.00	-22.08	peak		
3		689.2000	28.84	-4.25	24.59	46.00	-21.41	peak		
4	*	832.0000	29.01	-1.53	27.48	46.00	-18.52	peak		
5		991.6000	26.75	0.88	27.63	54.00	-26.37	peak		

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

●Reference Only



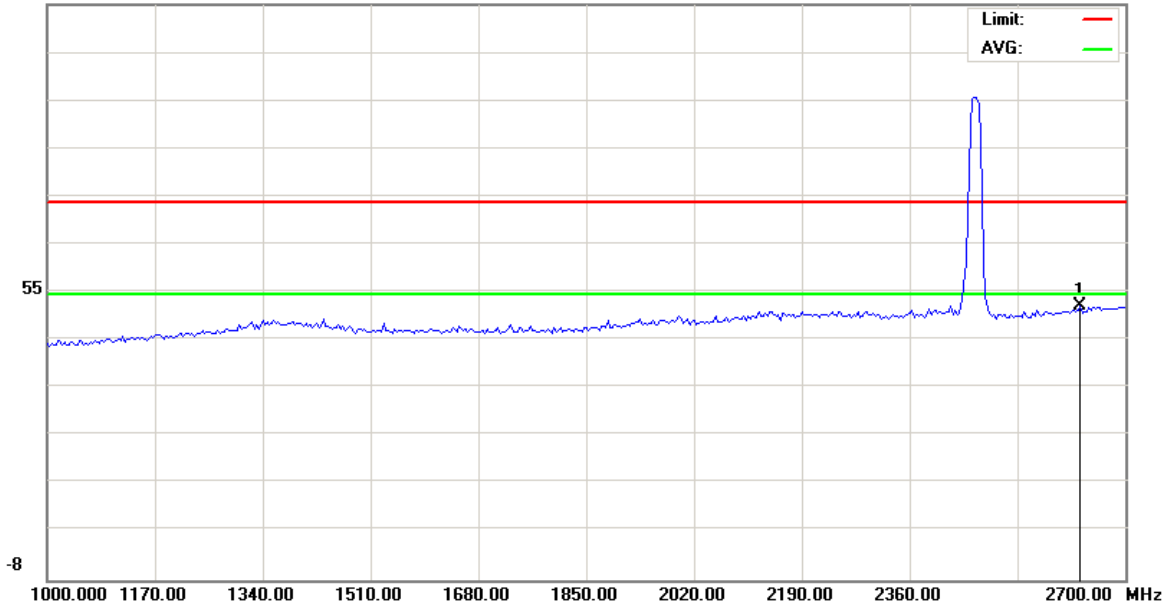
File :Raymond 103(CH2462)

Data :#1

Date: 2008/4/29

Time:

117.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11b)

Note: CH11(2462MHz)

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	*	2628.600	50.60	0.89	51.49	74.00	-22.51	peak		

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

●Reference Only



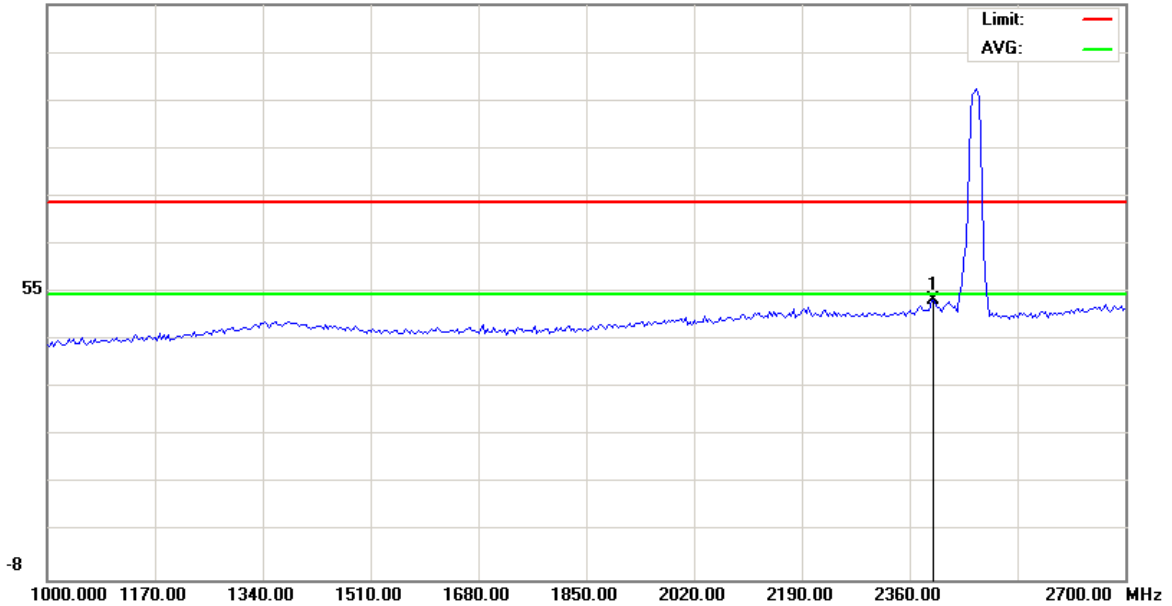
File :Raymond 103(CH2462)

Data :#3

Date: 2008/4/29

Time:

117.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11b)

Note: CH11(2462MHz)

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	*	2397.400	52.75	0.13	52.88	74.00	-21.12	peak		

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

●Reference Only



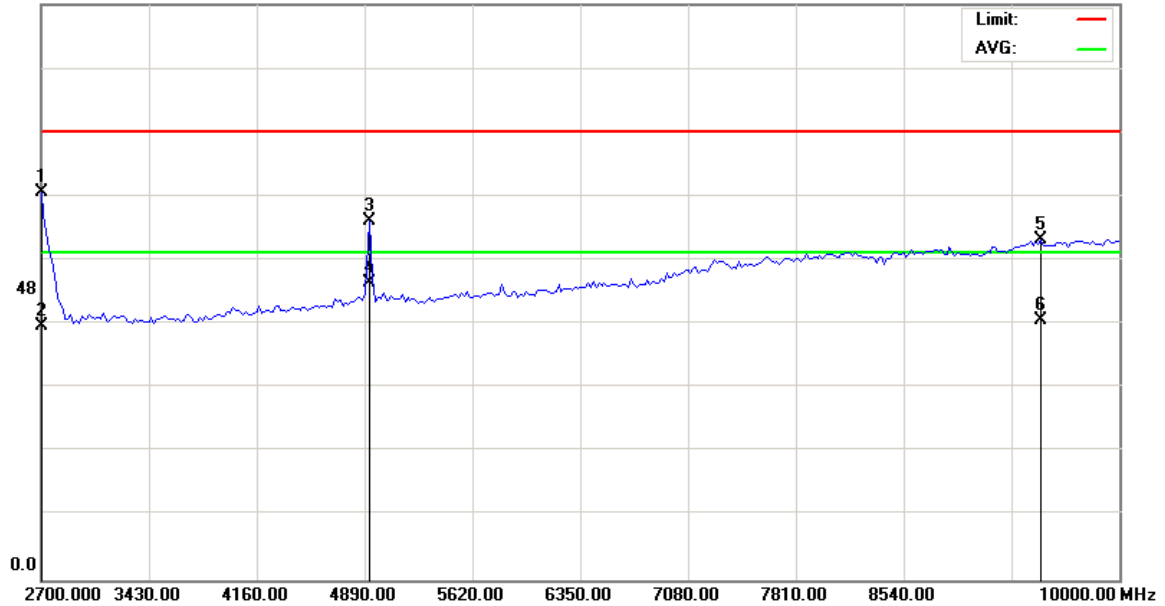
File :Raymond 103(CH2462)

Data :#5

Date: 2008/4/30

Time:

95.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11b)

Note: CH11(2462MHz)

2.7G-10G PK Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

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		2700.000	41.33	22.58	63.91	74.00	-10.09	peak			
2		2700.000	19.24	22.58	41.82	54.00	-12.18	AVG			
3		4926.500	51.51	7.66	59.17	74.00	-14.83	peak			
4	*	4926.500	41.43	7.66	49.09	54.00	-4.91	AVG			
5		9470.750	39.37	16.91	56.28	74.00	-17.72	peak			
6		9470.750	26.03	16.91	42.94	54.00	-11.06	AVG			

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

●Reference Only



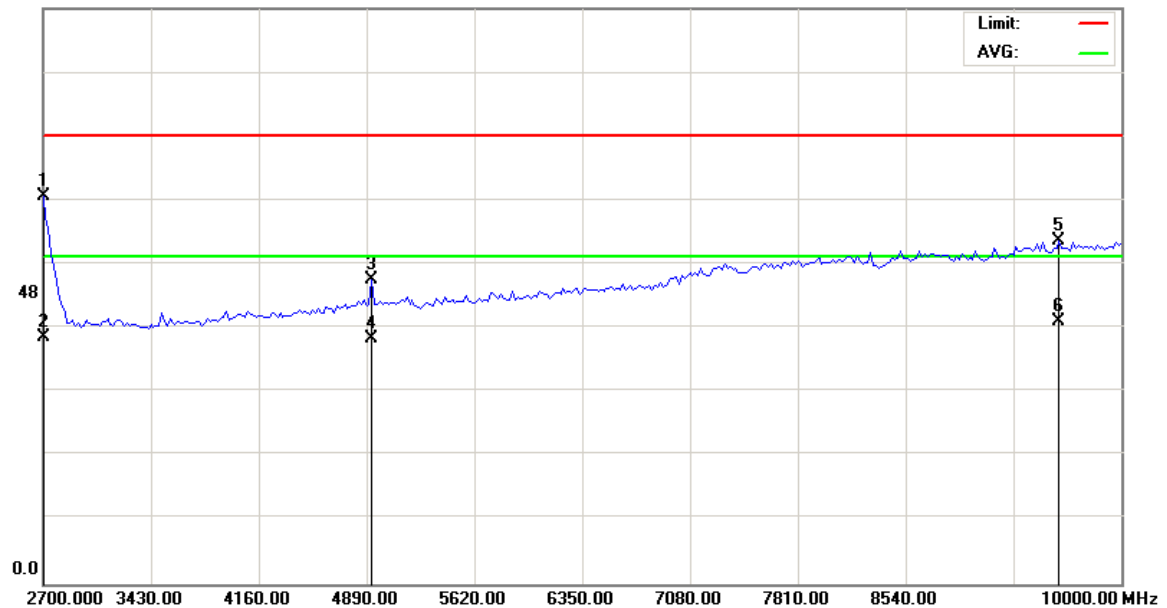
File :Raymond 103(CH2462)

Data :#7

Date: 2008/4/30

Time:

95.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11b)

Note: CH11(2462MHz)

2.7G-10G PK Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

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	*	2700.000	41.40	22.58	63.98	74.00	-10.02	peak			
2		2700.000	18.26	22.58	40.84	54.00	-13.16	AVG			
3		4926.500	42.54	7.66	50.20	74.00	-23.80	peak			
4		4926.500	32.84	7.66	40.50	54.00	-13.50	AVG			
5		9580.250	39.32	17.31	56.63	74.00	-17.37	peak			
6		9580.250	25.93	17.31	43.24	54.00	-10.76	AVG			

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

●Reference Only



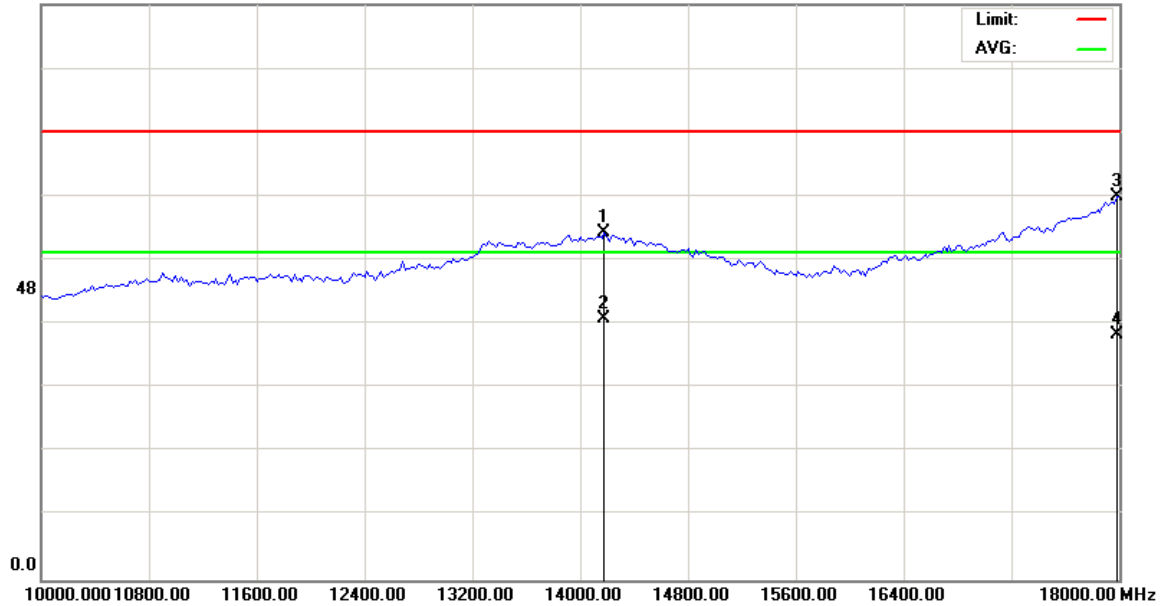
File :Raymond 103(CH2462)

Data :#9

Date: 2008/4/30

Time:

95.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11b)

Note: CH11(2462MHz)

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

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		14180.00	38.40	18.85	57.25	74.00	-16.75	peak			
2		14180.00	24.17	18.85	43.02	54.00	-10.98	AVG			
3	*	17980.00	37.98	25.21	63.19	74.00	-10.81	peak			
4		17980.00	15.22	25.21	40.43	54.00	-13.57	AVG			

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

●Reference Only



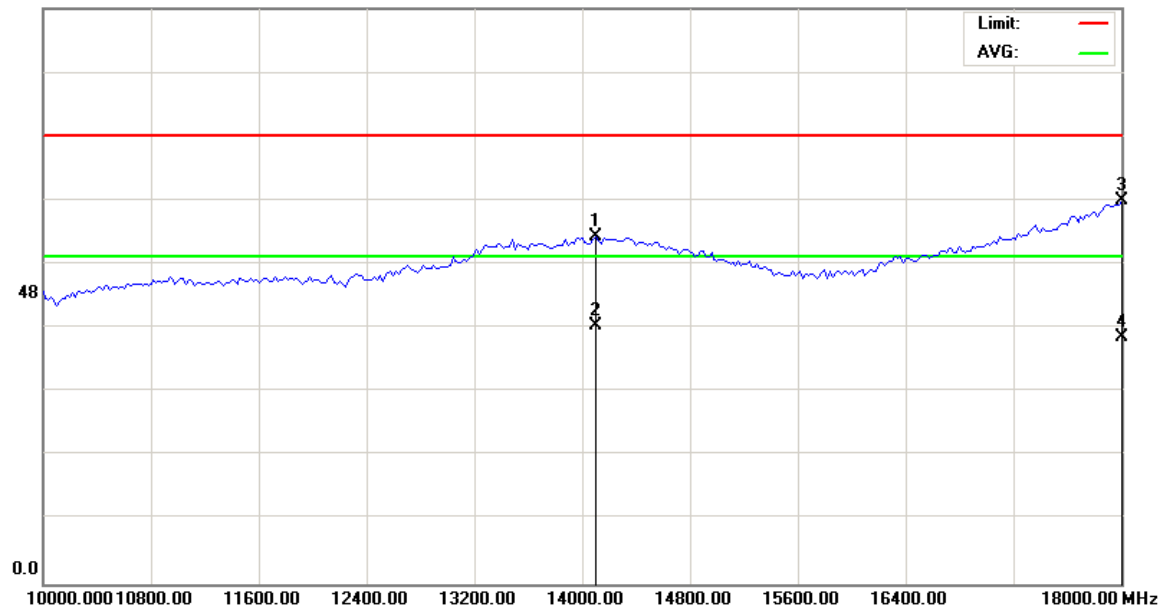
File :Raymond 103(CH2462)

Data :#11

Date: 2008/4/30

Time:

95.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11b)

Note: CH11(2462MHz)

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		14100.00	38.52	18.90	57.42	74.00	-16.58	peak		
2		14100.00	23.76	18.90	42.66	54.00	-11.34	AVG		
3	*	18000.00	37.84	25.57	63.41	74.00	-10.59	peak		
4		18000.00	15.15	25.57	40.72	54.00	-13.28	AVG		

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

●Reference Only



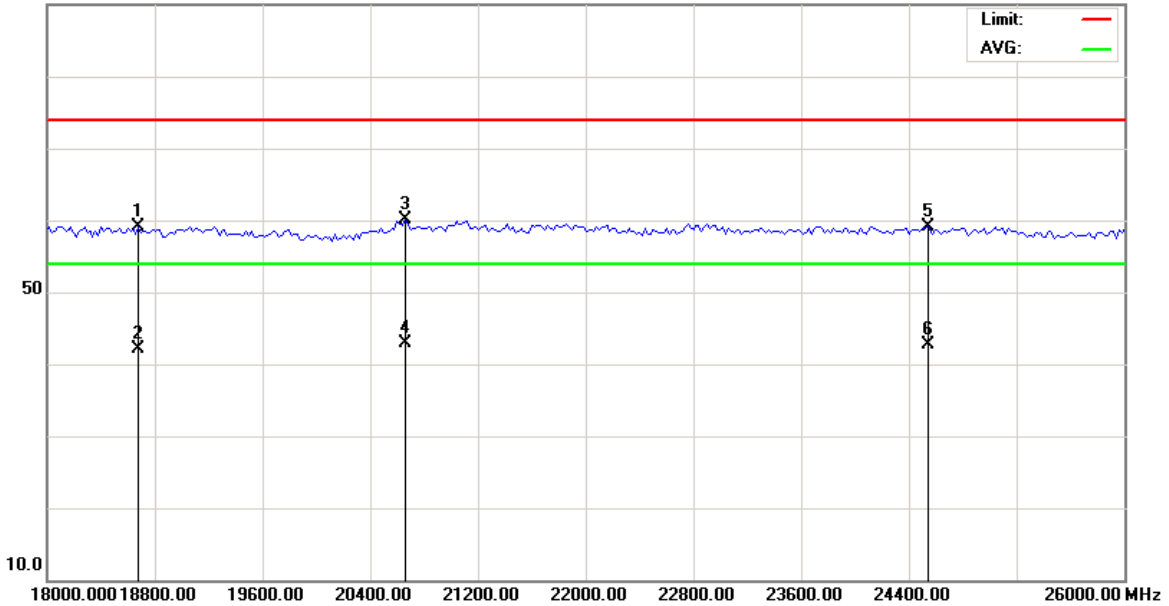
File :Raymond 103(CH2462)

Data :#13

Date: 2008/4/30

Time:

90.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11b)

Note: CH11(2462MHz)

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		18680.00	26.07	33.11	59.18	74.00	-14.82	peak			
2		18680.00	8.93	33.11	42.04	54.00	-11.96	AVG			
3		20660.00	28.29	31.76	60.05	74.00	-13.95	peak			
4	*	20660.00	11.07	31.76	42.83	54.00	-11.17	AVG			
5		24540.00	29.94	29.12	59.06	74.00	-14.94	peak			
6		24540.00	13.59	29.12	42.71	54.00	-11.29	AVG			

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

●Reference Only



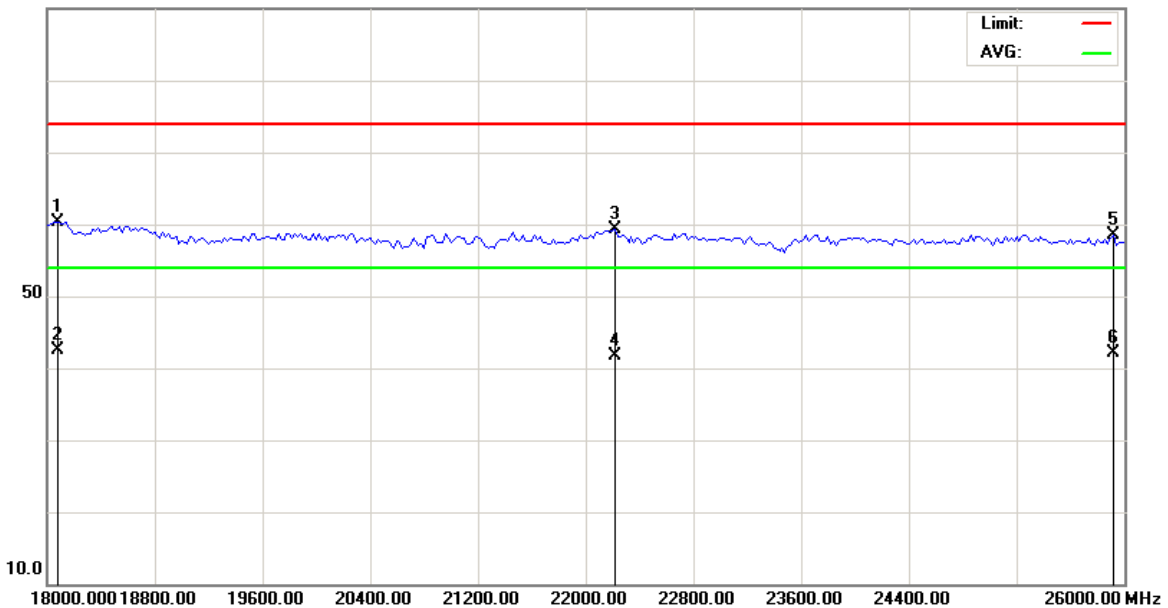
File :Raymond 103(CH2462)

Data :#14

Date: 2008/4/30

Time:

90.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11b)

Note: CH11(2462MHz)

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		18080.00	26.17	34.12	60.29	74.00	-13.71	peak			
2	*	18080.00	8.43	34.12	42.55	54.00	-11.45	AVG			
3		22220.00	28.54	30.70	59.24	74.00	-14.76	peak			
4		22220.00	11.06	30.70	41.76	54.00	-12.24	AVG			
5		25920.00	30.32	28.17	58.49	74.00	-15.51	peak			
6		25920.00	13.89	28.17	42.06	54.00	-11.94	AVG			

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

●Reference Only



3.6.4 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 : Inventec Corporation
Model No : Velocity 103
EUT : PDA PHONE
Test Mode : AC Adapter _ 802.11g CH1 2412.000 (Local Frequency: 2412.000 MHz)
Test Date : 04/22~30/2008

Please refer to next pager of detail testing data.

Notes:

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



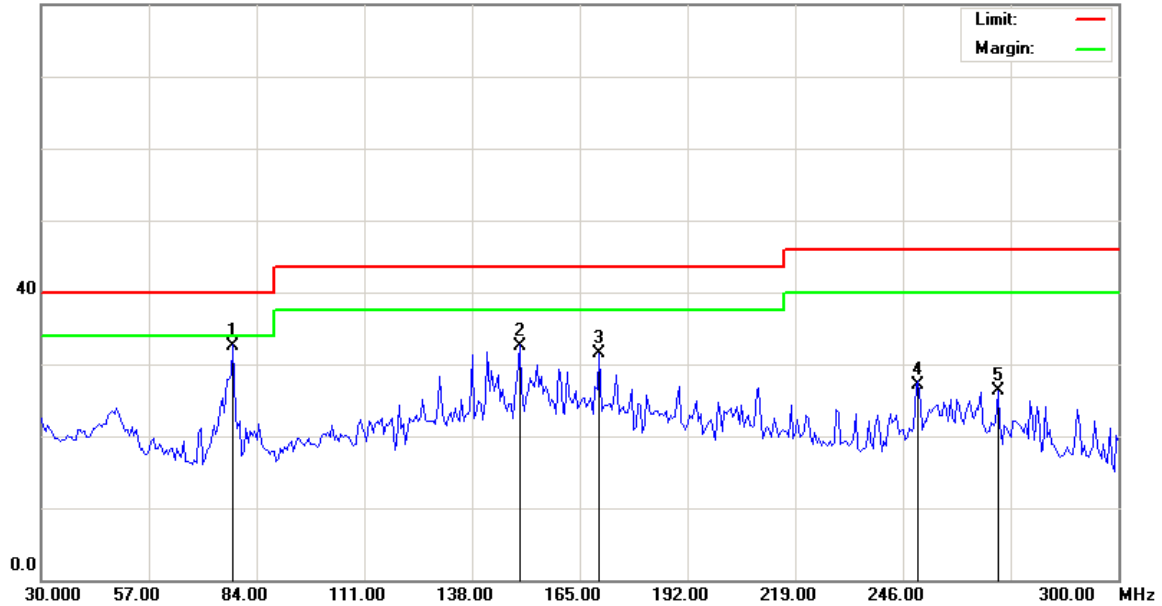
File :Raymond 103(11g)

Data :#1

Date: 2008/4/22

Time:

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:

Mode: 11g

Note: AC mode 2412MHz

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	*	78.0600	49.37	-16.79	32.58	40.00	-7.42	peak		
2		149.8800	48.50	-16.01	32.49	43.50	-11.01	peak		
3		169.8600	46.99	-15.41	31.58	43.50	-11.92	peak		
4		249.7800	37.97	-10.84	27.13	46.00	-18.87	peak		
5		269.7600	37.32	-10.94	26.38	46.00	-19.62	peak		

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

●Reference Only



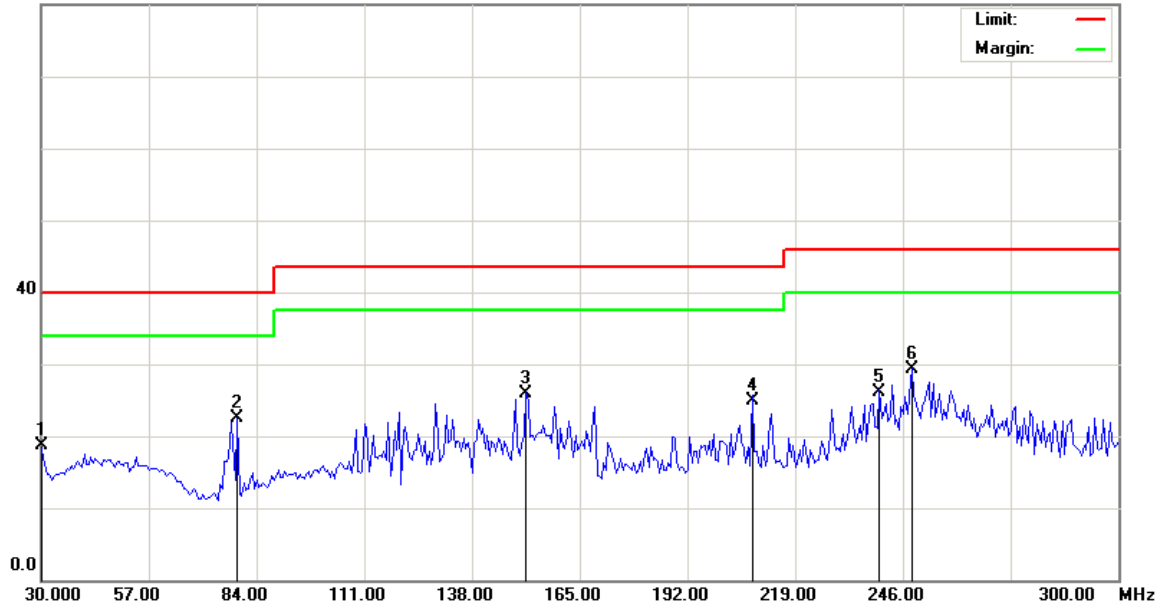
File :Raymond 103(11g)

Data :#3

Date: 2008/4/22

Time:

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:

Mode: 11g

Note: AC mode 2412MHz

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		30.0000	32.16	-13.49	18.67	40.00	-21.33	peak		
2		79.1400	39.11	-16.66	22.45	40.00	-17.55	peak		
3		151.5000	41.91	-15.98	25.93	43.50	-17.57	peak		
4		208.2000	37.68	-12.87	24.81	43.50	-18.69	peak		
5		240.0600	37.56	-11.43	26.13	46.00	-19.87	peak		
6	*	248.1600	40.27	-10.99	29.28	46.00	-16.72	peak		

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

●Reference Only



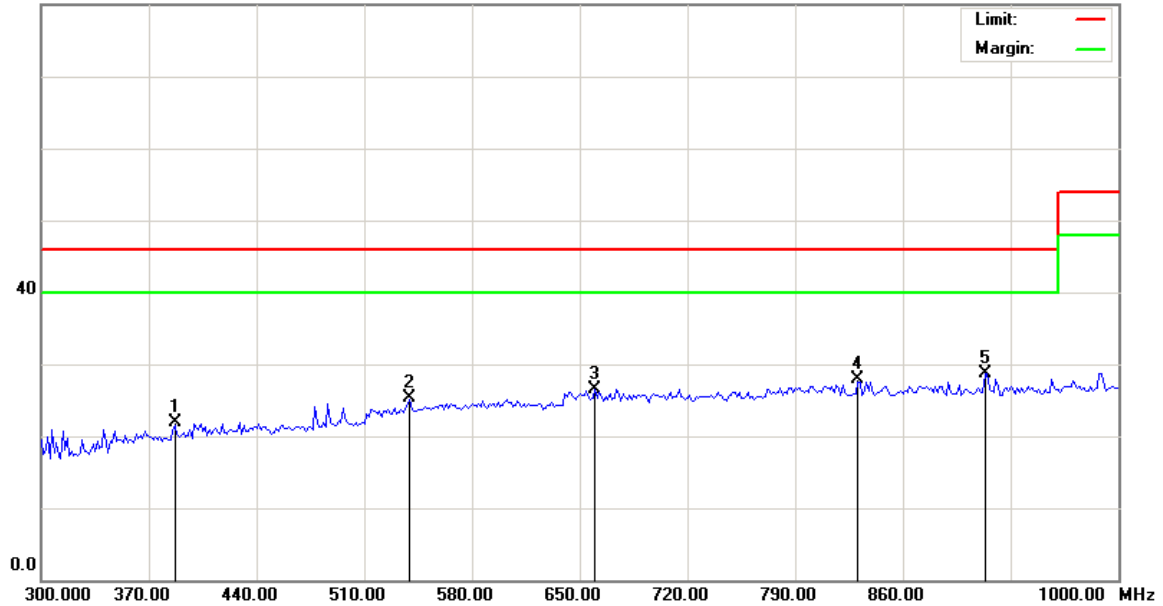
File :Raymond 103(11g)

Data :#2

Date: 2008/4/22

Time:

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:

Mode: 11g

Note: AC mode 2412MHz

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		386.8000	30.43	-8.54	21.89	46.00	-24.11	peak		
2		539.4000	31.44	-6.08	25.36	46.00	-20.64	peak		
3		659.8000	30.83	-4.32	26.51	46.00	-19.49	peak		
4		830.6000	29.43	-1.60	27.83	46.00	-18.17	peak		
5	*	913.2000	28.83	-0.19	28.64	46.00	-17.36	peak		

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

●Reference Only



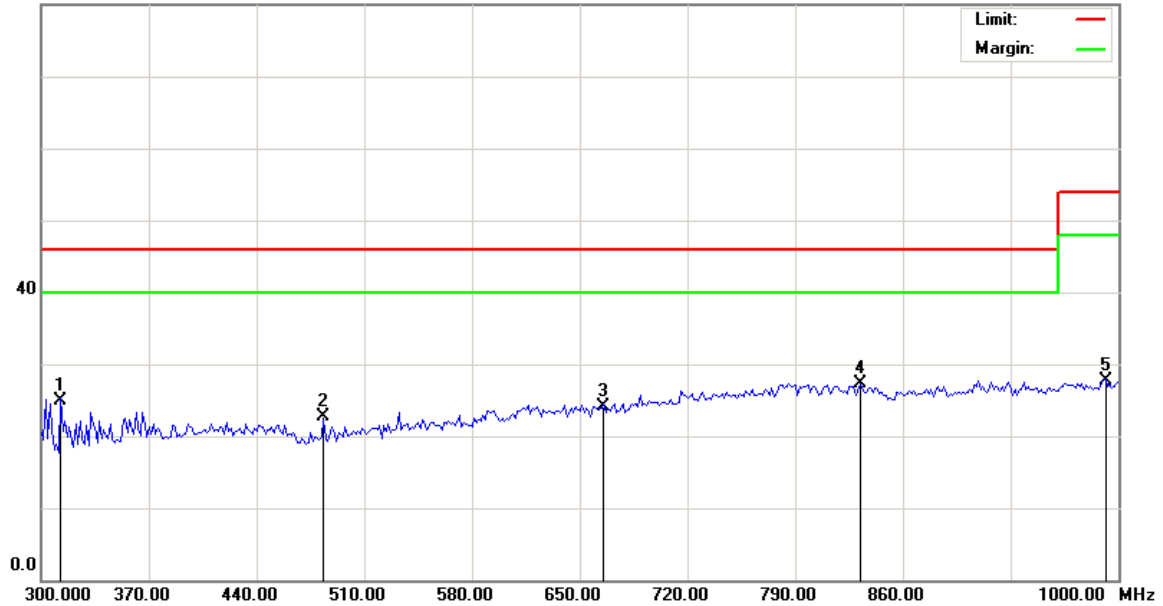
File :Raymond 103(11g)

Data :#4

Date: 2008/4/22

Time:

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:

Mode: 11g

Note: AC mode 2412MHz

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		312.6000	34.72	-9.79	24.93	46.00	-21.07	peak		
2		483.4000	30.15	-7.48	22.67	46.00	-23.33	peak		
3		665.4000	28.63	-4.45	24.18	46.00	-21.82	peak		
4	*	832.0000	28.82	-1.53	27.29	46.00	-18.71	peak		
5		991.6000	26.74	0.89	27.63	54.00	-26.37	peak		

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

●Reference Only



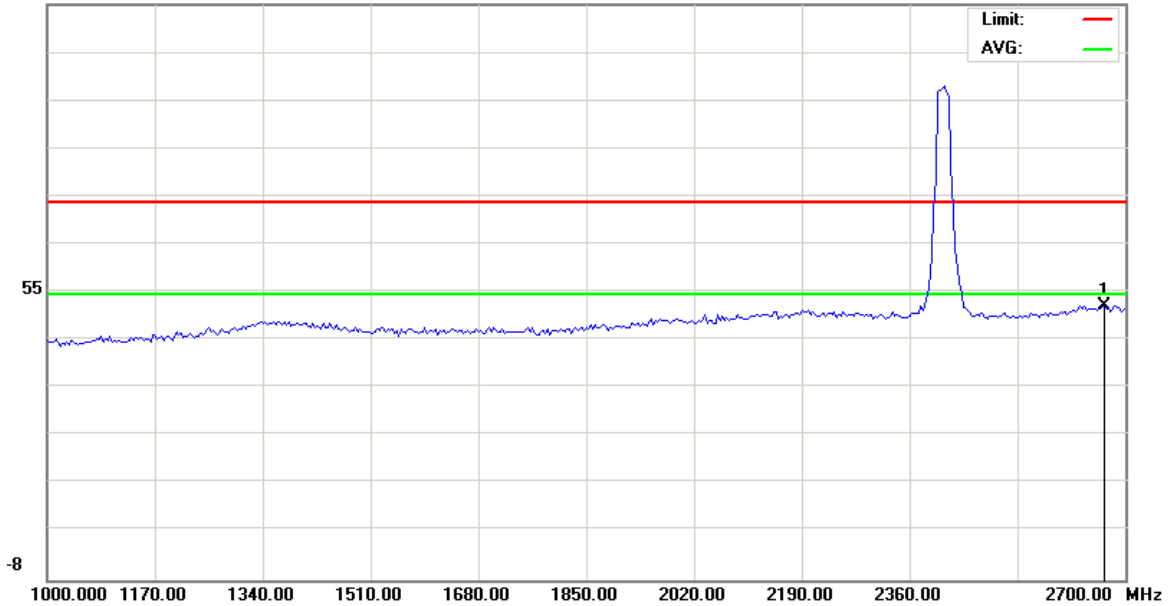
File :Raymond 103(CH2412)

Data :#1

Date: 2008/4/29

Time:

117.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11g)

Note: CH01(2412MHz)

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	*	2666.000	50.67	0.98	51.65	74.00	-22.35	peak		

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

●Reference Only



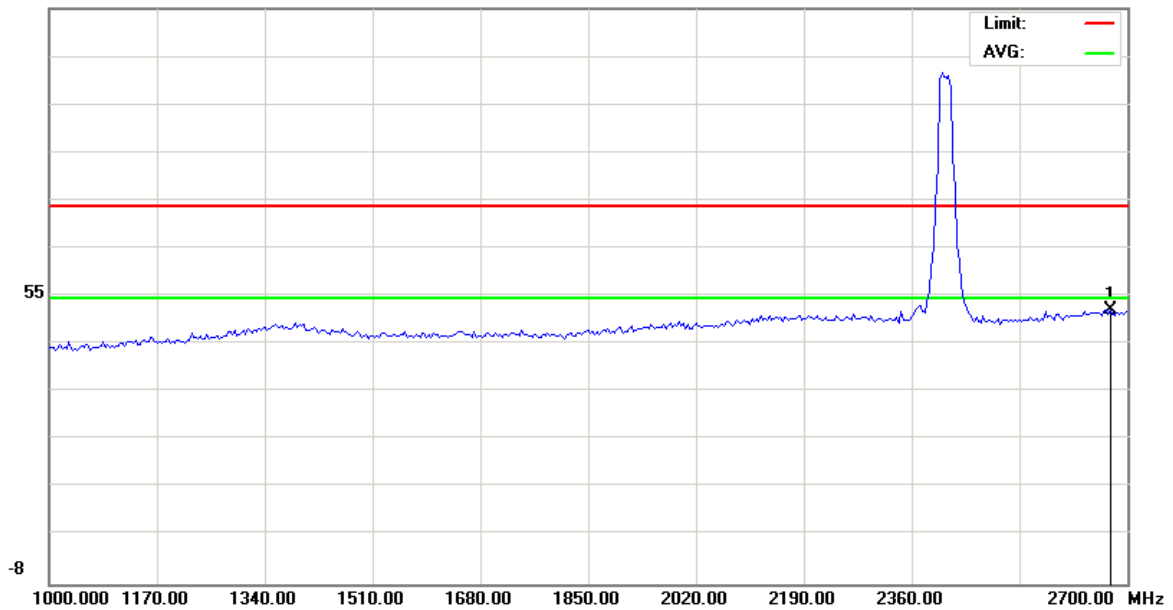
File :Raymond 103(CH2412)

Data :#3

Date: 2008/4/29

Time:

117.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11g)

Note: CH01(2412MHz)

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	*	2672.800	50.57	1.02	51.59	74.00	-22.41	peak		

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

●Reference Only



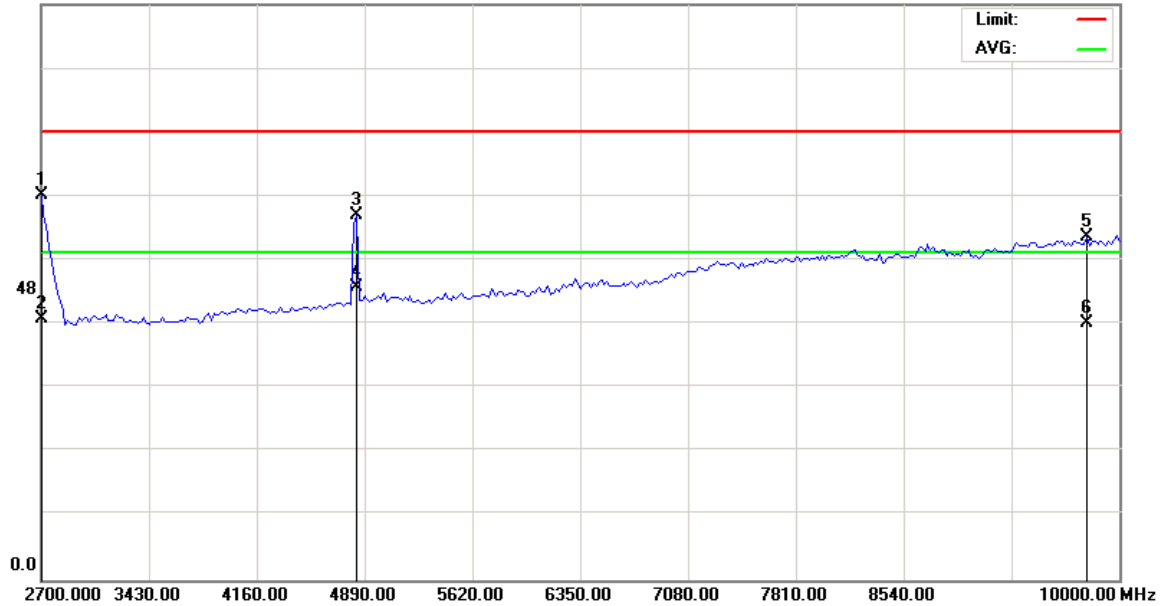
File :Raymond 103(CH2412)

Data :#5

Date: 2008/4/30

Time:

95.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11g)

Note: CH01(2412MHz)

2.7G-10G PK Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

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		2700.000	40.86	22.58	63.44	74.00	-10.56	peak			
2		2700.000	20.42	22.58	43.00	54.00	-11.00	AVG			
3		4835.250	52.56	7.61	60.17	74.00	-13.83	peak			
4	*	4835.250	40.61	7.61	48.22	54.00	-5.78	AVG			
5		9781.000	38.89	17.69	56.58	74.00	-17.42	peak			
6		9781.000	24.65	17.69	42.34	54.00	-11.66	AVG			

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

●Reference Only



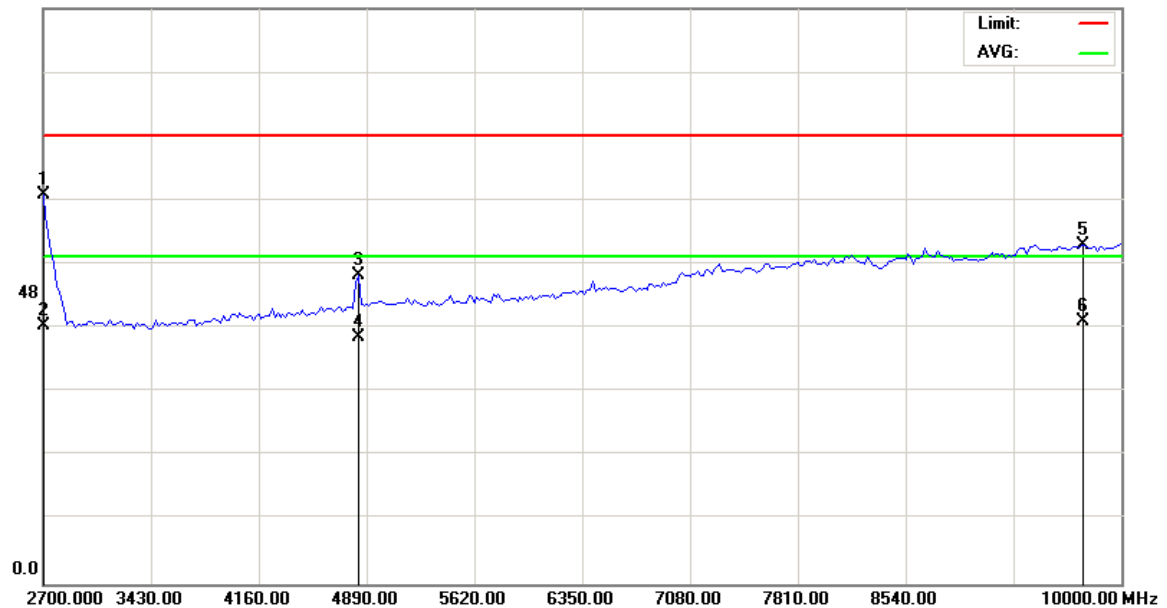
File :Raymond 103(CH2412)

Data :#7

Date: 2008/4/30

Time:

95.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11g)

Note: CH01(2412MHz)

2.7G-10G PK Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

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	*	2700.000	41.74	22.58	64.32	74.00	-9.68	peak			
2		2700.000	20.11	22.58	42.69	54.00	-11.31	AVG			
3		4835.250	43.26	7.61	50.87	74.00	-23.13	peak			
4		4835.250	33.12	7.61	40.73	54.00	-13.27	AVG			
5		9744.500	38.18	17.69	55.87	74.00	-18.13	peak			
6		9744.500	25.61	17.69	43.30	54.00	-10.70	AVG			

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

●Reference Only



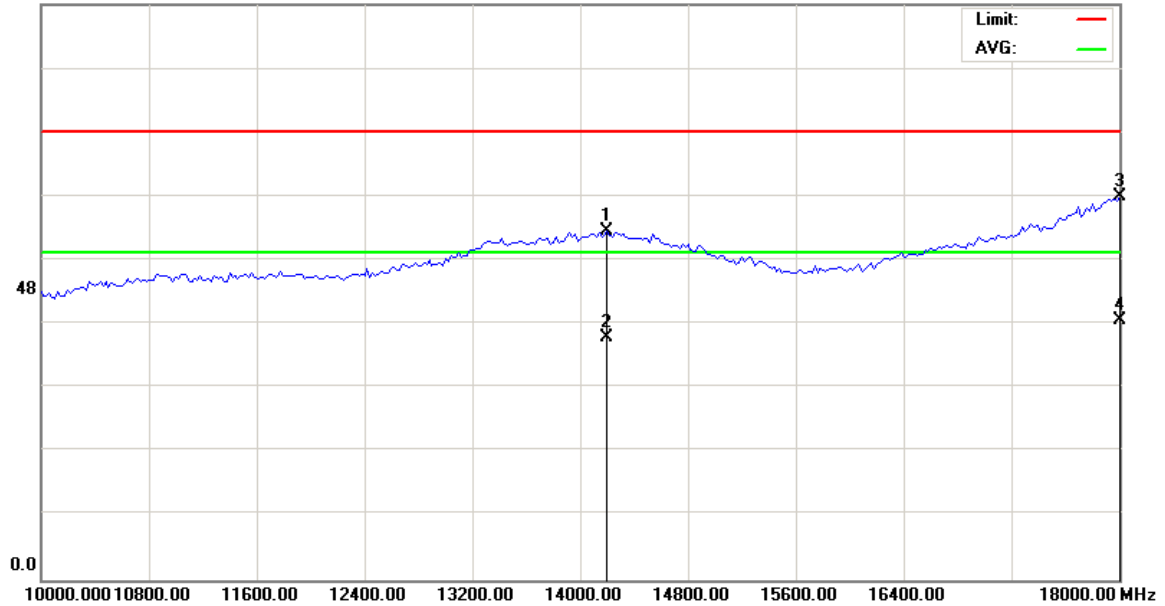
File :Raymond 103(CH2412)

Data :#9

Date: 2008/4/30

Time:

95.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11g)

Note: CH01(2412MHz)

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		14200.00	38.64	18.86	57.50	74.00	-16.50	peak		
2		14200.00	21.24	18.86	40.10	54.00	-13.90	AVG		
3	*	18000.00	37.71	25.57	63.28	74.00	-10.72	peak		
4		18000.00	17.41	25.57	42.98	54.00	-11.02	AVG		

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

●Reference Only



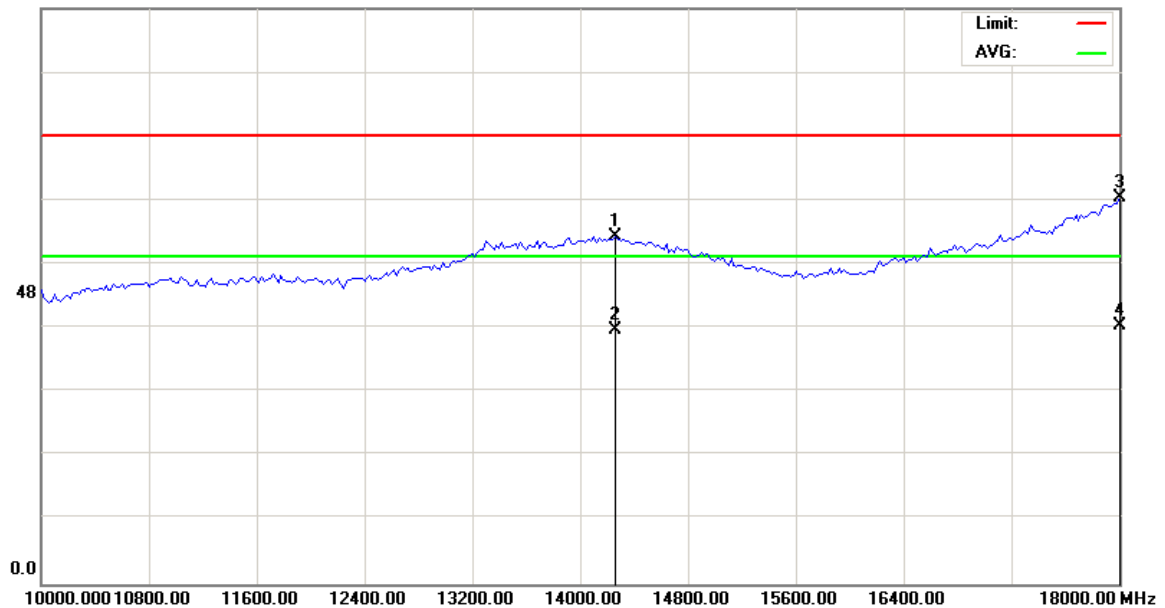
File :Raymond 103(CH2412)

Data :#11

Date: 2008/4/30

Time:

95.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11g)

Note: CH01(2412MHz)

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

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		14260.00	38.74	18.66	57.40	74.00	-16.60	peak			
2		14260.00	23.31	18.66	41.97	54.00	-12.03	AVG			
3	*	18000.00	38.18	25.57	63.75	74.00	-10.25	peak			
4		18000.00	17.15	25.57	42.72	54.00	-11.28	AVG			

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

●Reference Only



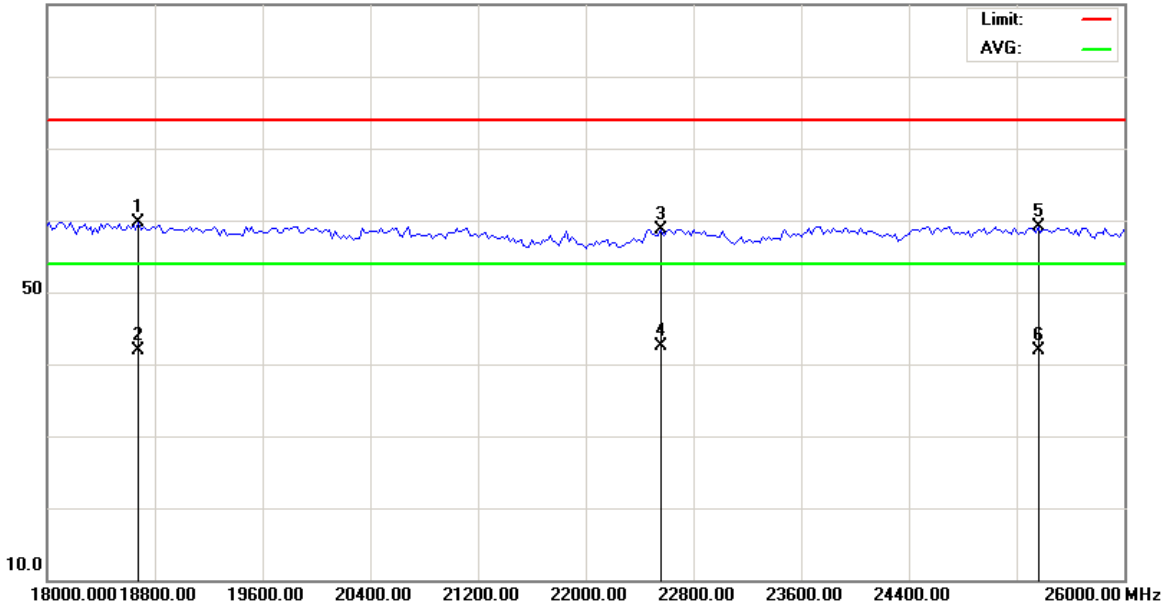
File :Raymond 103(CH2412)

Data :#13

Date: 2008/4/30

Time:

90.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11g)

Note: CH01(2412MHz)

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		18680.00	26.57	33.11	59.68	74.00	-14.32	peak			
2		18680.00	8.78	33.11	41.89	54.00	-12.11	AVG			
3		22560.00	28.33	30.46	58.79	74.00	-15.21	peak			
4	*	22560.00	12.13	30.46	42.59	54.00	-11.41	AVG			
5		25360.00	30.48	28.55	59.03	74.00	-14.97	peak			
6		25360.00	13.29	28.55	41.84	54.00	-12.16	AVG			

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

●Reference Only

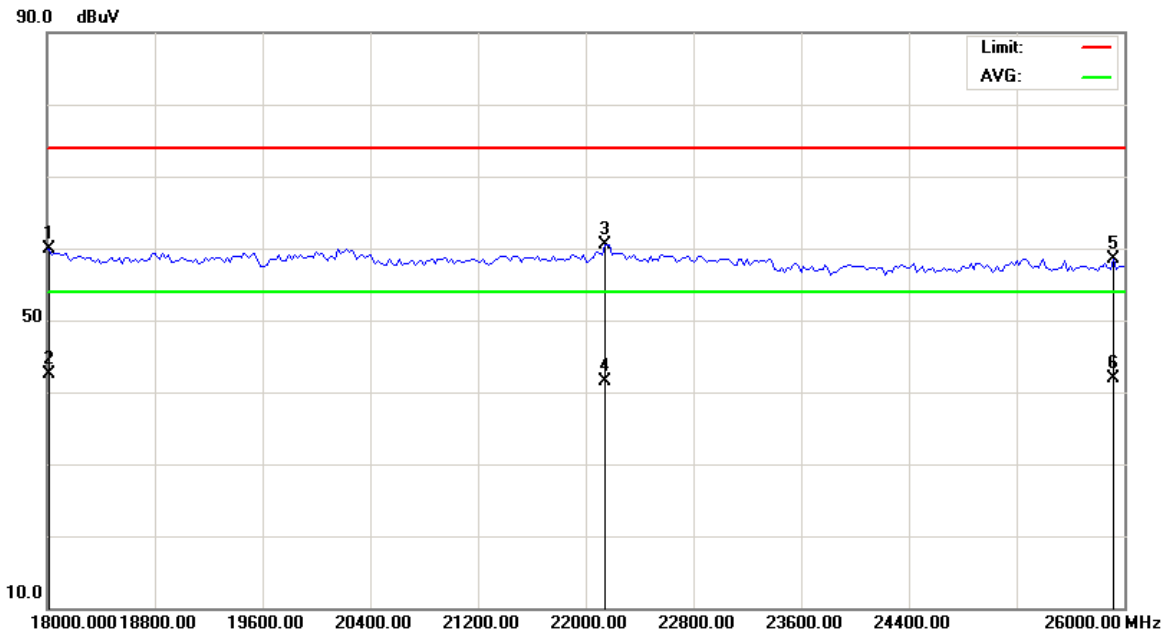


File :Raymond 103(CH2412)

Data :#14

Date: 2008/4/30

Time:



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11g)

Note: CH01(2412MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		18020.00	25.88	33.99	59.87	74.00	-14.13	peak		
2	*	18020.00	8.53	33.99	42.52	54.00	-11.48	AVG		
3		22140.00	29.82	30.76	60.58	74.00	-13.42	peak		
4		22140.00	10.68	30.76	41.44	54.00	-12.56	AVG		
5		25920.00	30.32	28.17	58.49	74.00	-15.51	peak		
6		25920.00	13.74	28.17	41.91	54.00	-12.09	AVG		

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

●Reference Only



3.6.5 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 : Inventec Corporation
Model No : Velocity 103
EUT : PDA PHONE
Test Mode : AC Adapter _ 802.11g CH6 2437.000 (Local Frequency: 2437.000 MHz)
Test Date : 04/22~30/2008

Please refer to next pager of detail testing data.

Notes:

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



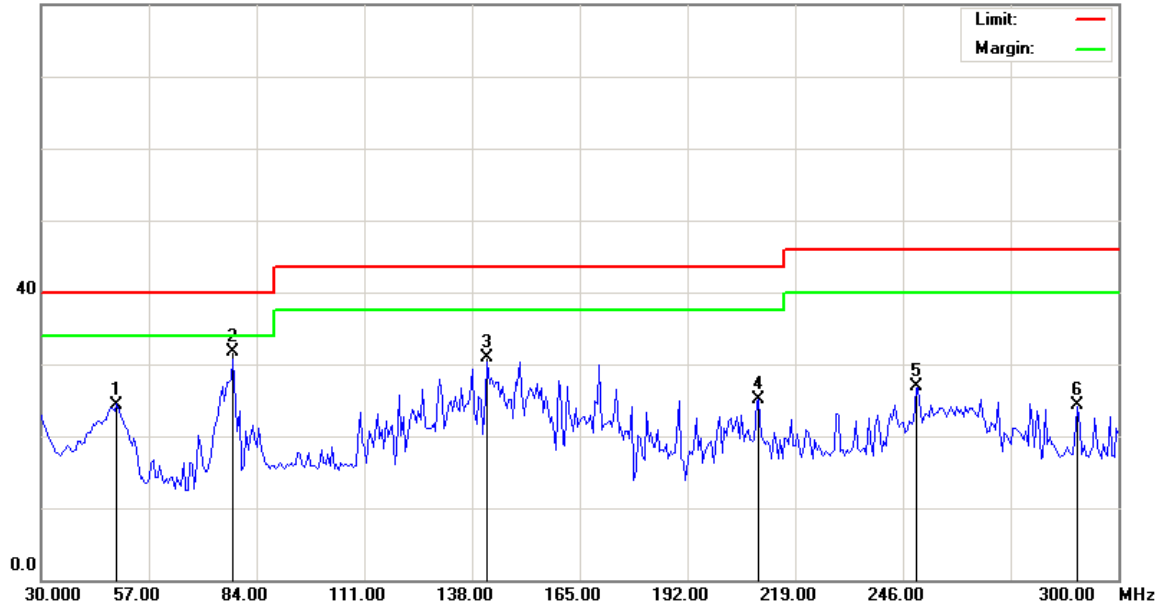
File :Raymond 103(11g)

Data :#5

Date: 2008/4/22

Time:

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:

Mode: 11g

Note: AC mode 2437MHz

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		48.9000	36.46	-12.08	24.38	40.00	-15.62	peak		
2	*	78.0600	48.42	-16.79	31.63	40.00	-8.37	peak		
3		141.7800	47.13	-16.29	30.84	43.50	-12.66	peak		
4		209.8200	37.96	-12.78	25.18	43.50	-18.32	peak		
5		249.2400	37.83	-10.89	26.94	46.00	-19.06	peak		
6		289.7400	34.40	-10.03	24.37	46.00	-21.63	peak		

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

●Reference Only



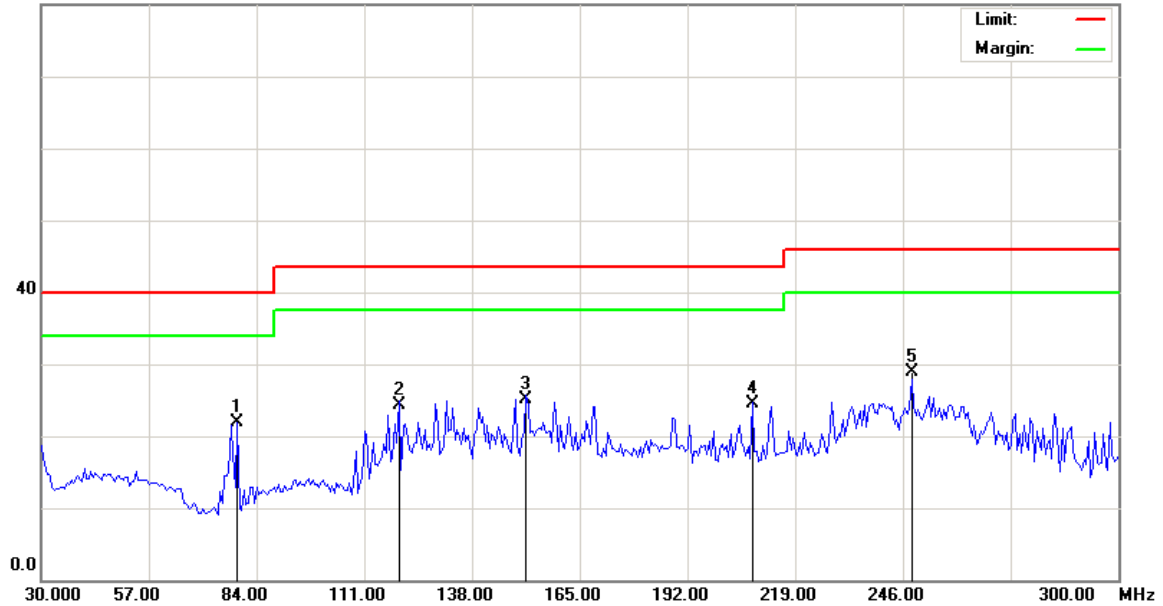
File :Raymond 103(11g)

Data :#7

Date: 2008/4/22

Time:

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:

Mode: 11g

Note: AC mode 2437MHz

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		79.1400	38.55	-16.66	21.89	40.00	-18.11	peak		
2		119.6400	38.50	-14.14	24.36	43.50	-19.14	peak		
3		151.5000	41.11	-15.98	25.13	43.50	-18.37	peak		
4		208.2000	37.41	-12.87	24.54	43.50	-18.96	peak		
5	*	248.1600	39.91	-10.99	28.92	46.00	-17.08	peak		

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

●Reference Only



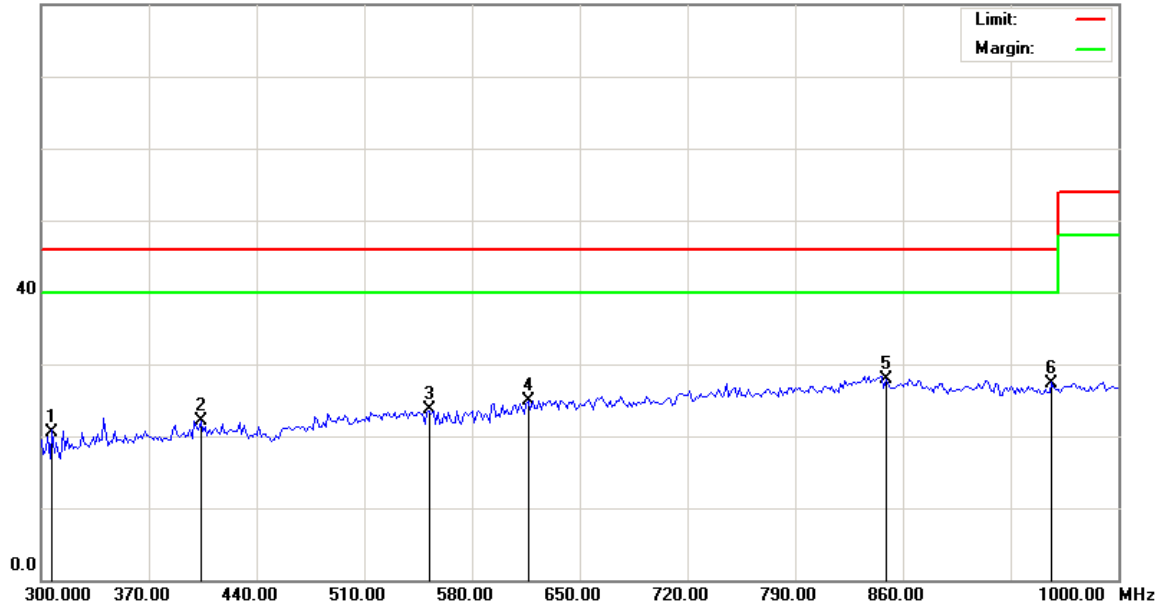
File :Raymond 103(11g)

Data :#6

Date: 2008/4/22

Time:

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:

Mode: 11g

Note: AC mode 2437MHz

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		307.0000	30.59	-10.02	20.57	46.00	-25.43	peak		
2		403.6000	30.46	-8.27	22.19	46.00	-23.81	peak		
3		552.0000	29.66	-5.93	23.73	46.00	-22.27	peak		
4		616.4000	29.20	-4.39	24.81	46.00	-21.19	peak		
5	*	848.8000	29.19	-1.25	27.94	46.00	-18.06	peak		
6		956.6000	26.95	0.30	27.25	46.00	-18.75	peak		

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

●Reference Only



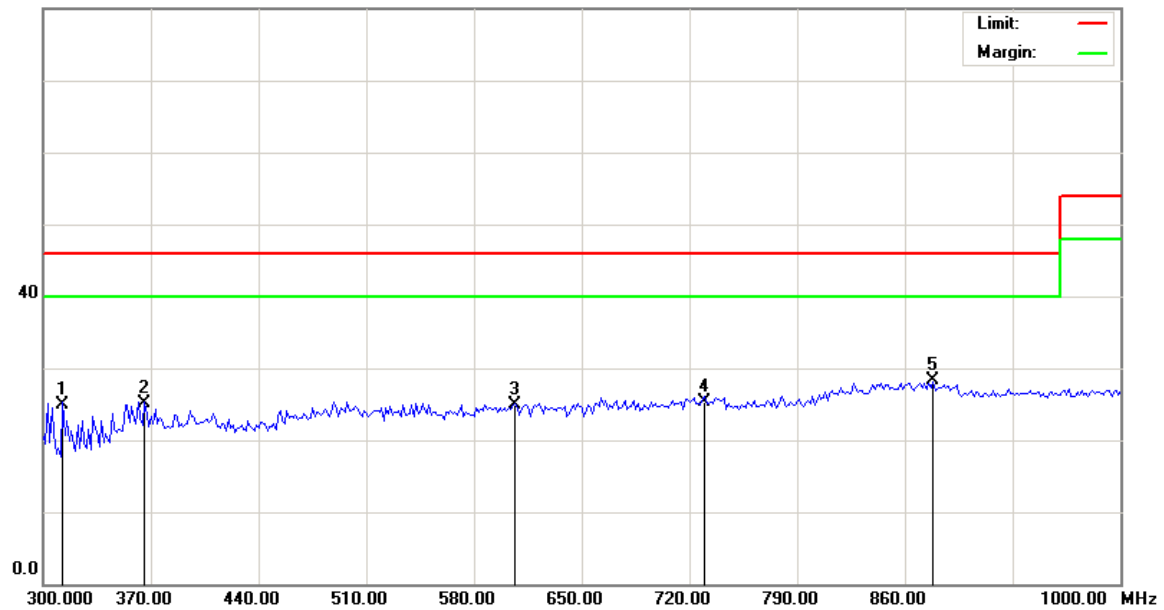
File :Raymond 103(11g)

Data :#8

Date: 2008/4/22

Time:

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:

Mode: 11g

Note: AC mode 2437MHz

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		312.6000	34.60	-9.79	24.81	46.00	-21.19	peak		
2		365.8000	33.75	-8.63	25.12	46.00	-20.88	peak		
3		606.6000	29.52	-4.60	24.92	46.00	-21.08	peak		
4		729.8000	28.93	-3.55	25.38	46.00	-20.62	peak		
5	*	878.2000	28.99	-0.73	28.26	46.00	-17.74	peak		

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

●Reference Only



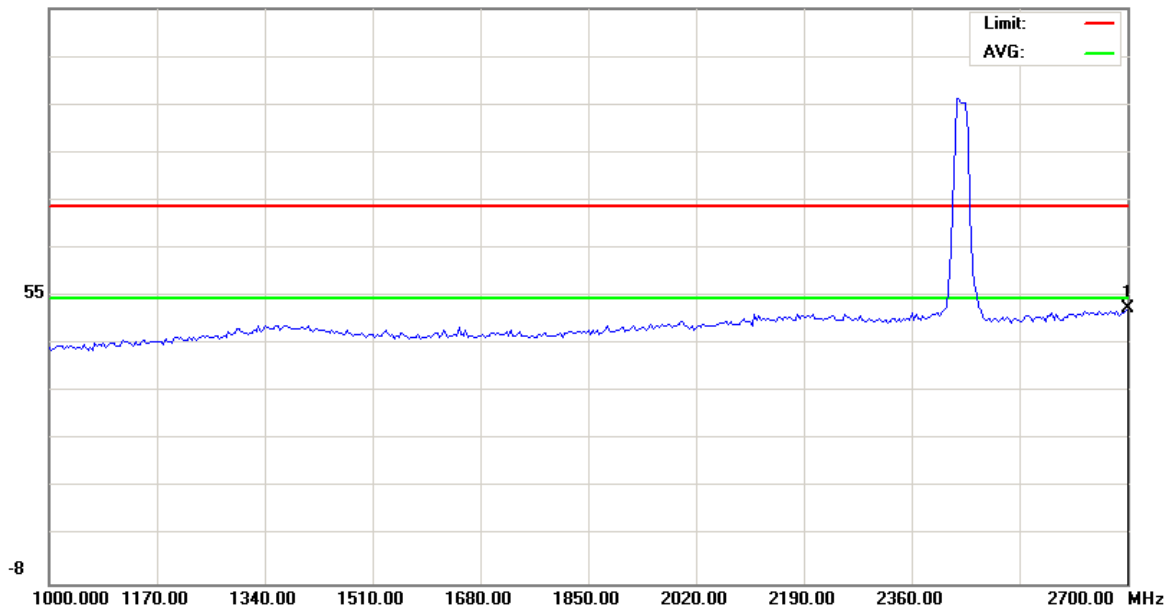
File :Raymond 103(CH2437)

Data :#1

Date: 2008/4/29

Time:

117.0 dBuV



Site

Polarization: *Vertical*

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11g)

Note: CH06(2437MHz)

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	*	2700.000	51.01	0.84	51.85	74.00	-22.15	peak		

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

●Reference Only



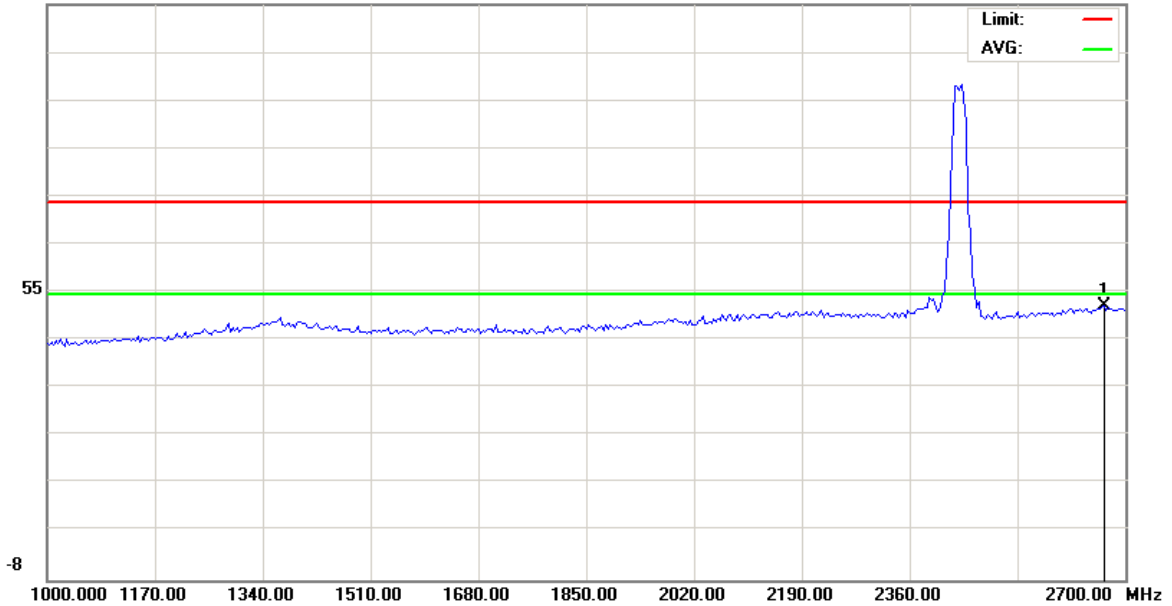
File :Raymond 103(CH2437)

Data :#3

Date: 2008/4/29

Time:

117.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11g)

Note: CH06(2437MHz)

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	*	2666.000	50.52	0.98	51.50	74.00	-22.50	peak		

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

●Reference Only



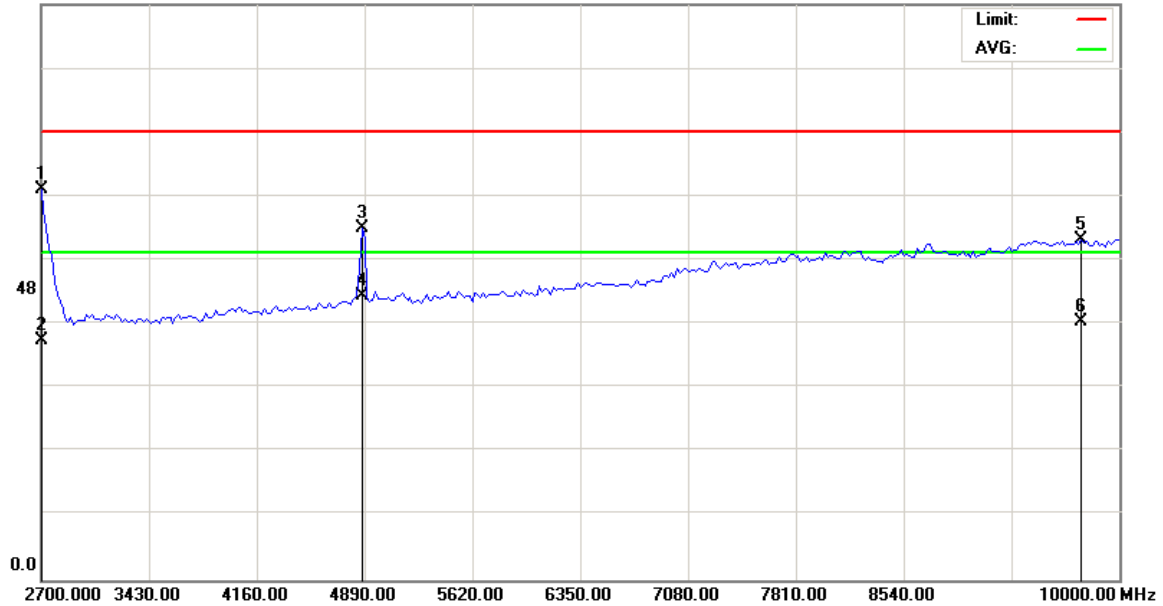
File :Raymond 103(CH2437)

Data :#5

Date: 2008/4/30

Time:

95.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11g)

Note: CH06(2437MHz)

2.7G-10G PK Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

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		2700.000	41.82	22.58	64.40	74.00	-9.60	peak			
2		2700.000	16.99	22.58	39.57	54.00	-14.43	AVG			
3		4871.750	50.28	7.72	58.00	74.00	-16.00	peak			
4	*	4871.750	39.25	7.72	46.97	54.00	-7.03	AVG			
5		9744.500	38.57	17.69	56.26	74.00	-17.74	peak			
6		9744.500	24.94	17.69	42.63	54.00	-11.37	AVG			

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

●Reference Only



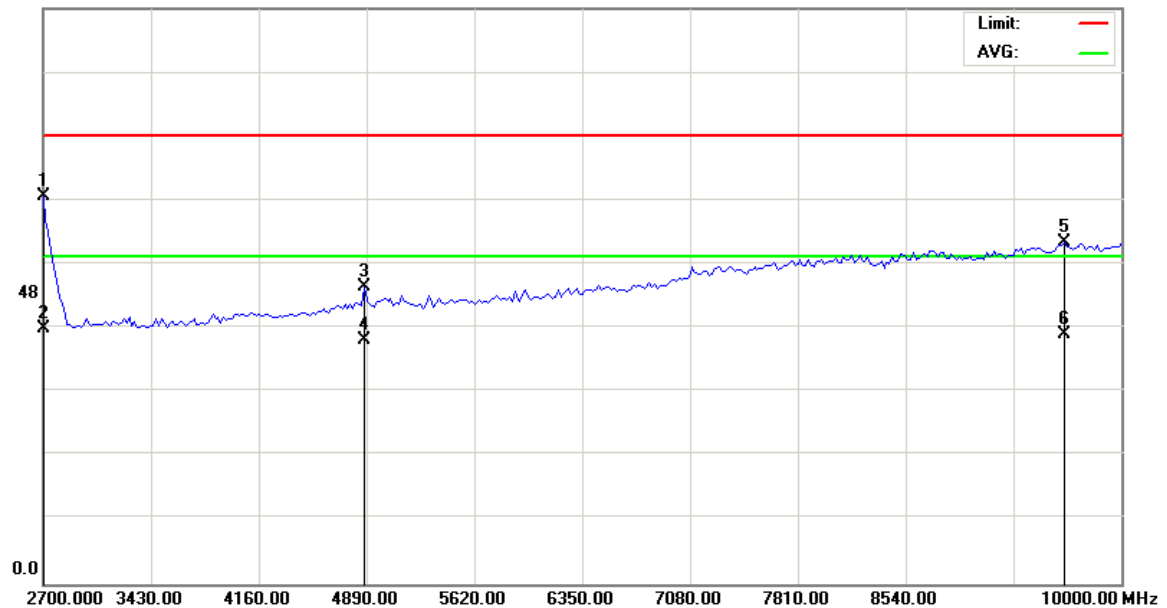
File :Raymond 103(CH2437)

Data :#7

Date: 2008/4/30

Time:

95.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11g)

Note: CH06(2437MHz)

2.7G-10G PK Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

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	*	2700.000	41.54	22.58	64.12	74.00	-9.88	peak			
2		2700.000	19.58	22.58	42.16	54.00	-11.84	AVG			
3		4871.750	41.32	7.72	49.04	74.00	-24.96	peak			
4		4871.750	32.42	7.72	40.14	54.00	-13.86	AVG			
5		9616.750	39.14	17.25	56.39	74.00	-17.61	peak			
6		9616.750	23.92	17.25	41.17	54.00	-12.83	AVG			

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

●Reference Only



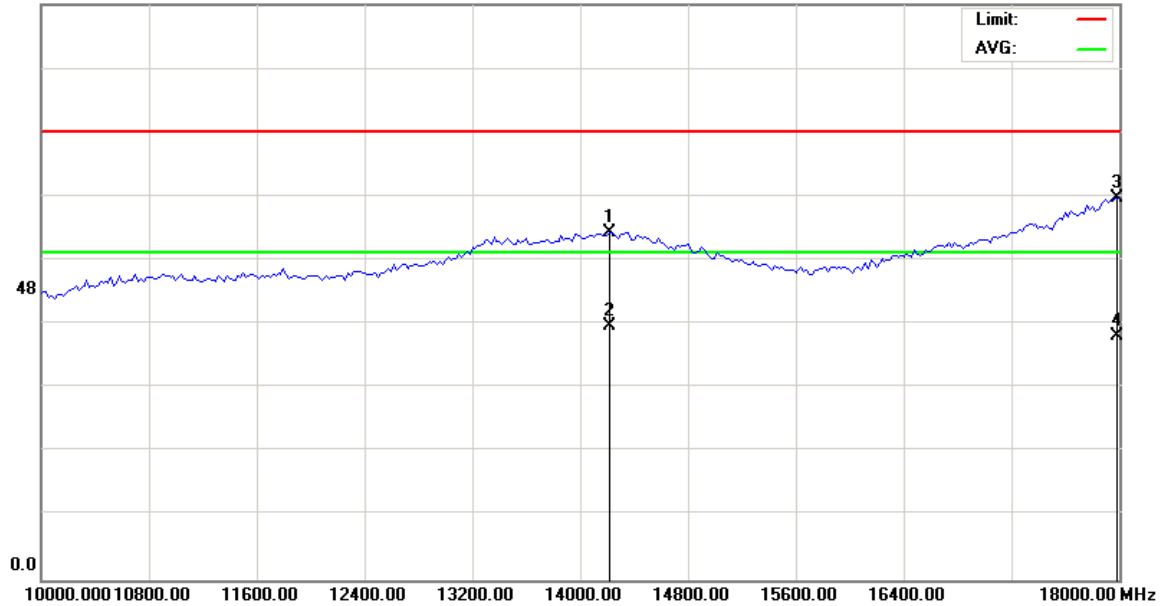
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Data :#9

Date: 2008/4/30

Time:

95.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11g)

Note: CH06(2437MHz)

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

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		14220.00	38.62	18.78	57.40	74.00	-16.60	peak			
2		14220.00	23.21	18.78	41.99	54.00	-12.01	AVG			
3	*	17980.00	37.87	25.21	63.08	74.00	-10.92	peak			
4		17980.00	15.16	25.21	40.37	54.00	-13.63	AVG			

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

●Reference Only



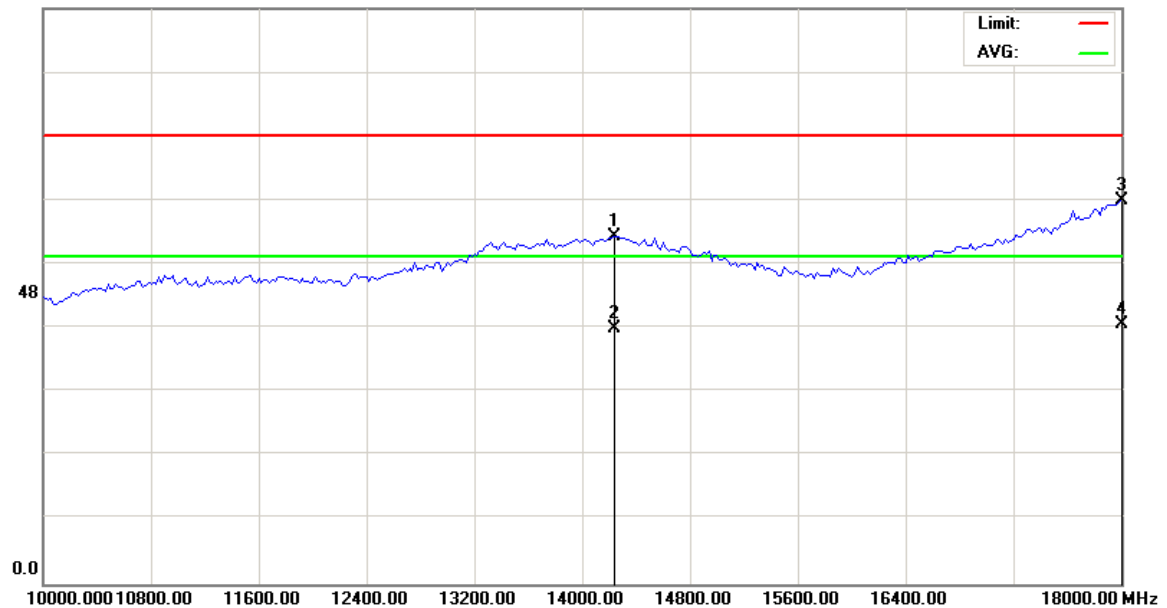
File :Raymond 103(CH2437)

Data :#11

Date: 2008/4/30

Time:

95.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11g)

Note: CH06(2437MHz)

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		14240.00	38.59	18.71	57.30	74.00	-16.70	peak		
2		14240.00	23.52	18.71	42.23	54.00	-11.77	AVG		
3	*	18000.00	37.76	25.57	63.33	74.00	-10.67	peak		
4		18000.00	17.41	25.57	42.98	54.00	-11.02	AVG		

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

●Reference Only



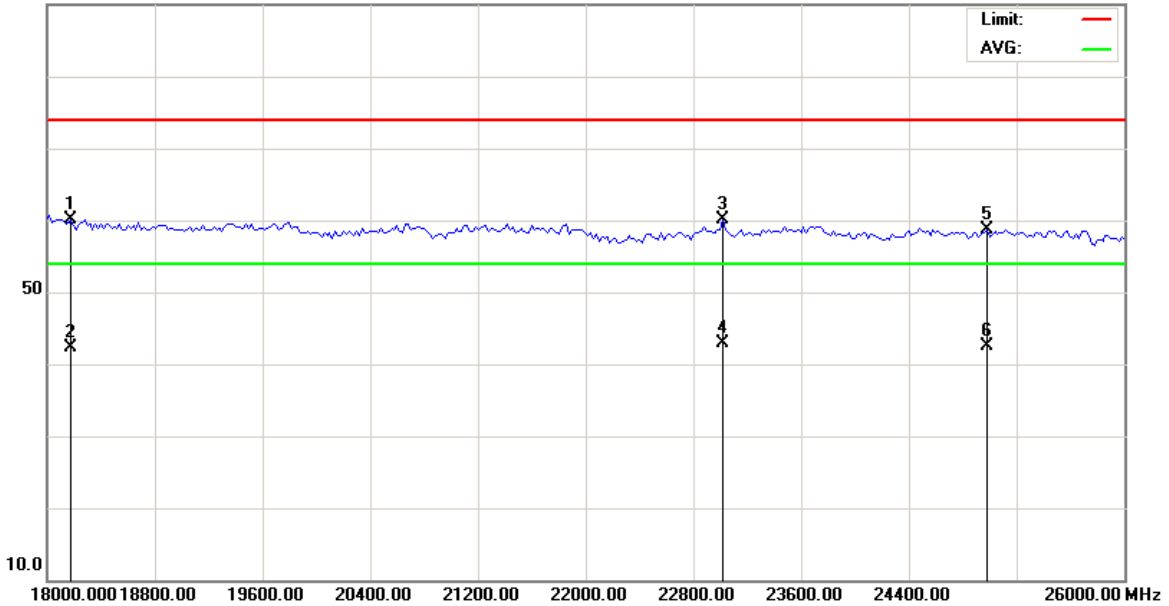
File :Raymond 103(CH2437)

Data :#13

Date: 2008/4/30

Time:

90.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11g)

Note: CH06(2437MHz)

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		18180.00	25.83	34.34	60.17	74.00	-13.83	peak		
2		18180.00	7.91	34.34	42.25	54.00	-11.75	AVG		
3		23020.00	29.91	30.15	60.06	74.00	-13.94	peak		
4	*	23020.00	12.78	30.15	42.93	54.00	-11.07	AVG		
5		24980.00	29.84	28.82	58.66	74.00	-15.34	peak		
6		24980.00	13.61	28.82	42.43	54.00	-11.57	AVG		

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

●Reference Only



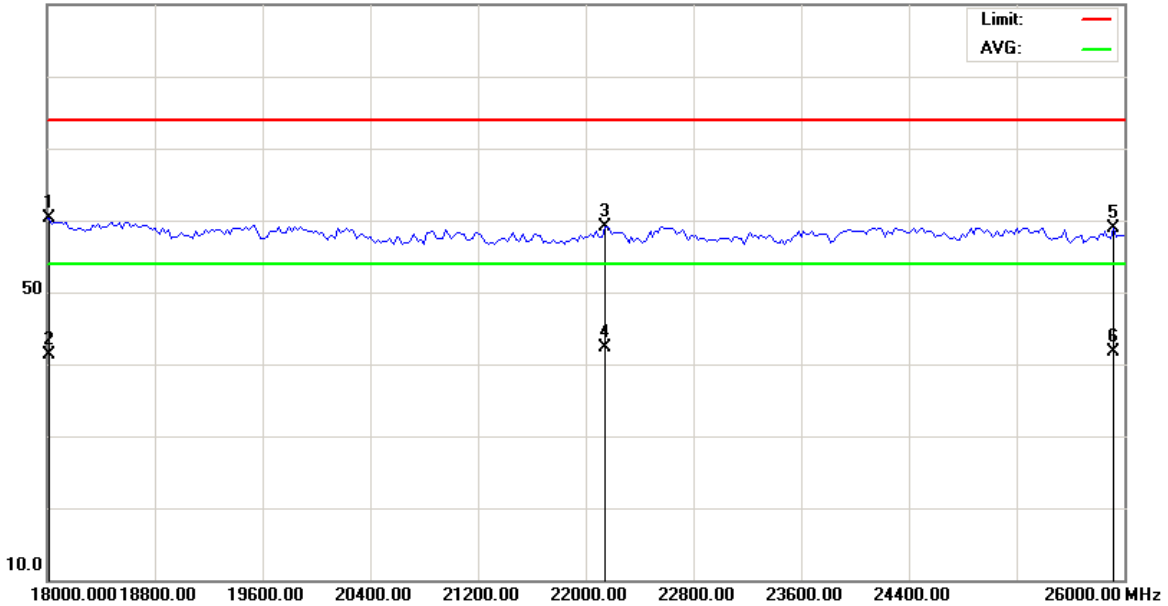
File :Raymond 103(CH2437)

Data :#14

Date: 2008/4/30

Time:

90.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11g)

Note: CH06(2437MHz)

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		18020.00	26.38	33.99	60.37	74.00	-13.63	peak			
2		18020.00	7.39	33.99	41.38	54.00	-12.62	AVG			
3		22140.00	28.32	30.76	59.08	74.00	-14.92	peak			
4	*	22140.00	11.57	30.76	42.33	54.00	-11.67	AVG			
5		25920.00	30.82	28.17	58.99	74.00	-15.01	peak			
6		25920.00	13.59	28.17	41.76	54.00	-12.24	AVG			

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

●Reference Only



3.6.6 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 : Inventec Corporation
Model No : Velocity 103
EUT : PDA PHONE
Test Mode : AC Adapter _ 802.11g CH11 2462.000 (Local Frequency: 2462.000 MHz)
Test Date : 04/22~30/2008

Please refer to next pager of detail testing data.

Notes:

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



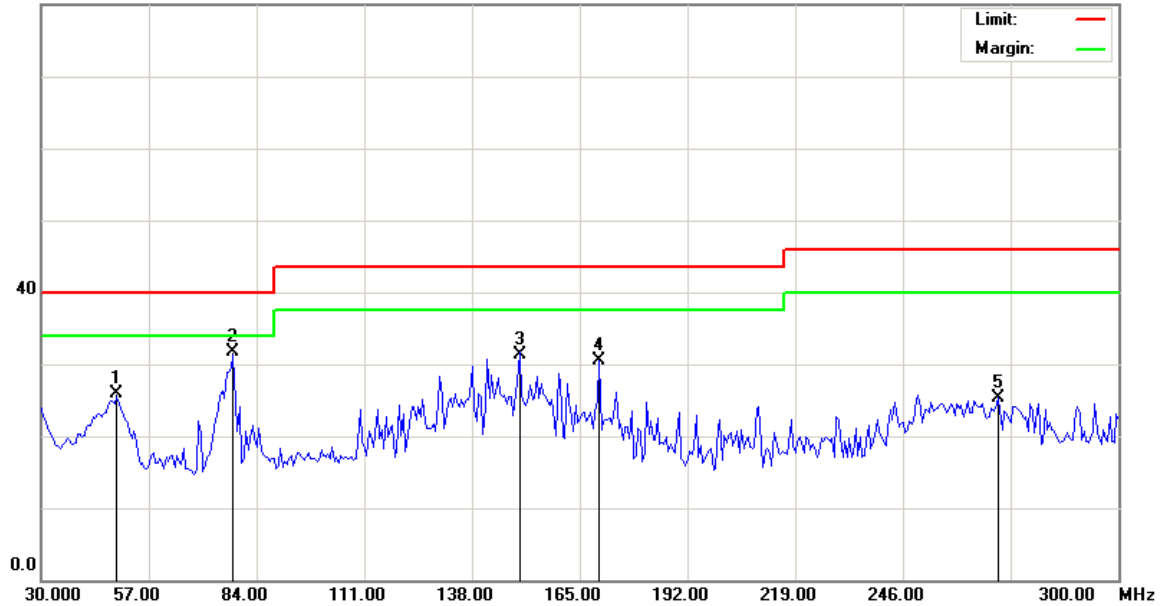
File :Raymond 103(11g)

Data :#9

Date: 2008/4/22

Time:

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:

Mode: 11g

Note: AC mode 2462MHz

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		48.9000	38.01	-12.08	25.93	40.00	-14.07	peak			
2	*	78.0600	48.46	-16.79	31.67	40.00	-8.33	peak			
3		149.8800	47.30	-16.01	31.29	43.50	-12.21	peak			
4		169.8600	45.84	-15.41	30.43	43.50	-13.07	peak			
5		269.7600	36.25	-10.94	25.31	46.00	-20.69	peak			

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

●Reference Only



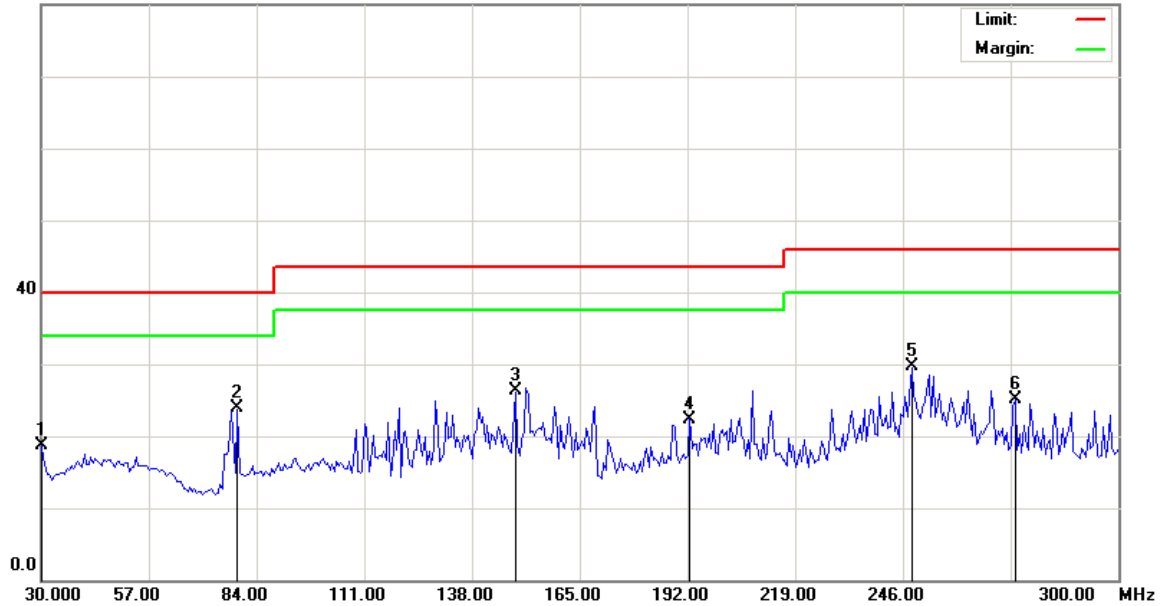
File :Raymond 103(11g)

Data :#11

Date: 2008/4/22

Time:

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:

Mode: 11g

Note: AC mode 2462MHz

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		30.0000	32.21	-13.49	18.72	40.00	-21.28	peak		
2	*	79.1400	40.47	-16.66	23.81	40.00	-16.19	peak		
3		148.8000	42.43	-16.05	26.38	43.50	-17.12	peak		
4		192.5399	35.52	-13.23	22.29	43.50	-21.21	peak		
5		248.1600	40.73	-10.99	29.74	46.00	-16.26	peak		
6		274.0799	36.01	-10.82	25.19	46.00	-20.81	peak		

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

●Reference Only



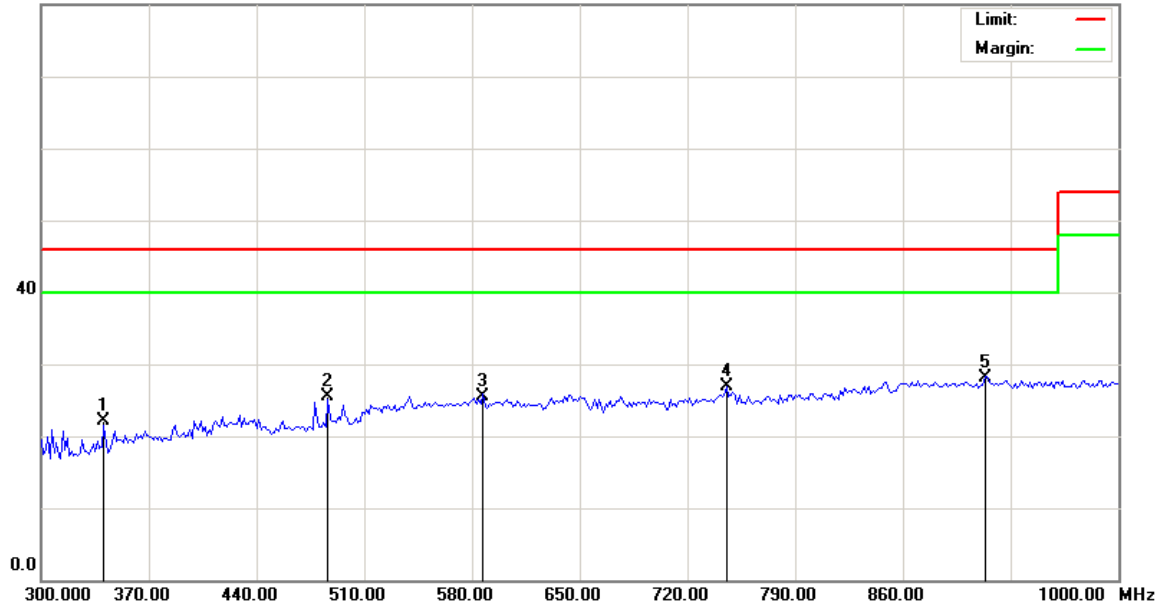
File :Raymond 103(11g)

Data :#10

Date: 2008/4/22

Time:

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:

Mode: 11g

Note: AC mode 2462MHz

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		340.6000	31.10	-8.97	22.13	46.00	-23.87	peak		
2		486.2000	32.83	-7.42	25.41	46.00	-20.59	peak		
3		587.0000	30.53	-5.10	25.43	46.00	-20.57	peak		
4		745.2000	29.99	-3.11	26.88	46.00	-19.12	peak		
5	*	913.2000	28.36	-0.19	28.17	46.00	-17.83	peak		

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

●Reference Only



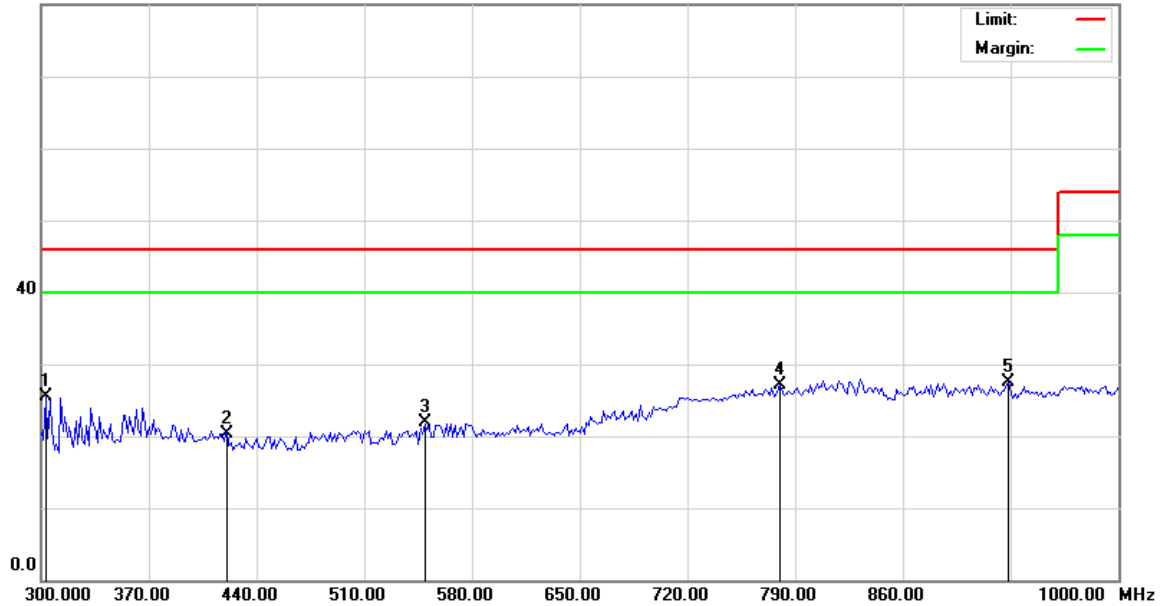
File :Raymond 103(11g)

Data :#12

Date: 2008/4/22

Time:

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:

Mode: 11g

Note: AC mode 2462MHz

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		302.8000	35.53	-10.06	25.47	46.00	-20.53	peak		
2		420.4000	28.38	-8.09	20.29	46.00	-25.71	peak		
3		549.2000	27.83	-6.01	21.82	46.00	-24.18	peak		
4		780.2000	29.47	-2.36	27.11	46.00	-18.89	peak		
5	*	928.6000	27.94	-0.35	27.59	46.00	-18.41	peak		

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

●Reference Only



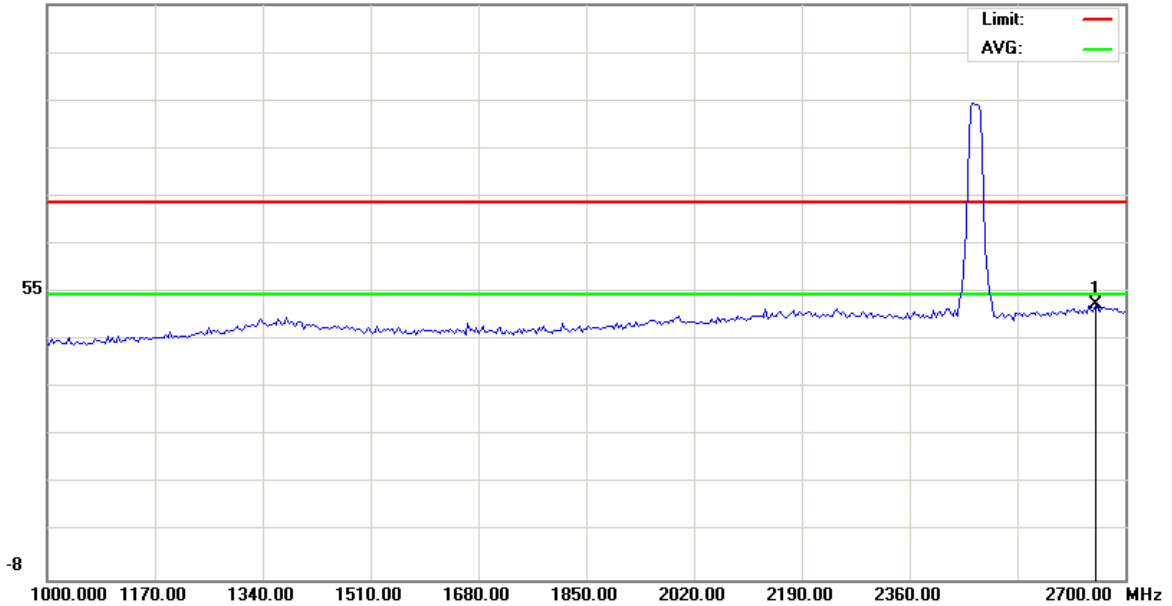
File :Raymond 103(CH2462)

Data :#1

Date: 2008/4/29

Time:

117.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11g)

Note: CH11(2462MHz)

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	*	2652.400	50.89	0.95	51.84	74.00	-22.16	peak		

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

●Reference Only



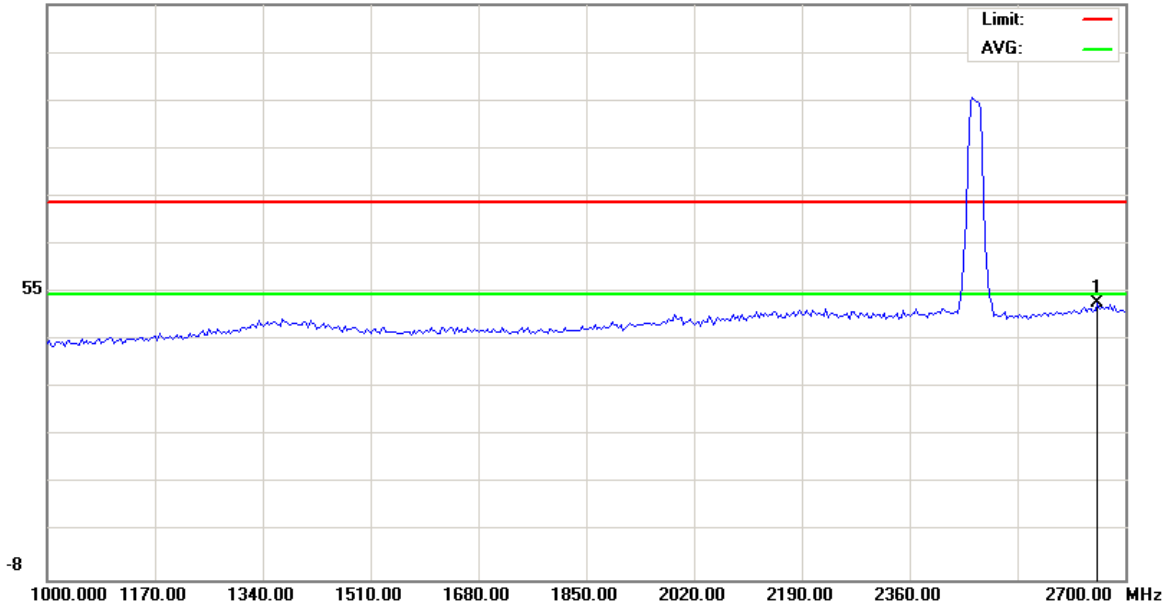
File :Raymond 103(CH2462)

Data :#3

Date: 2008/4/29

Time:

117.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11g)

Note: CH11(2462MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1	*	2655.800	51.25	0.94	52.19	74.00	-21.81	peak		

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

●Reference Only



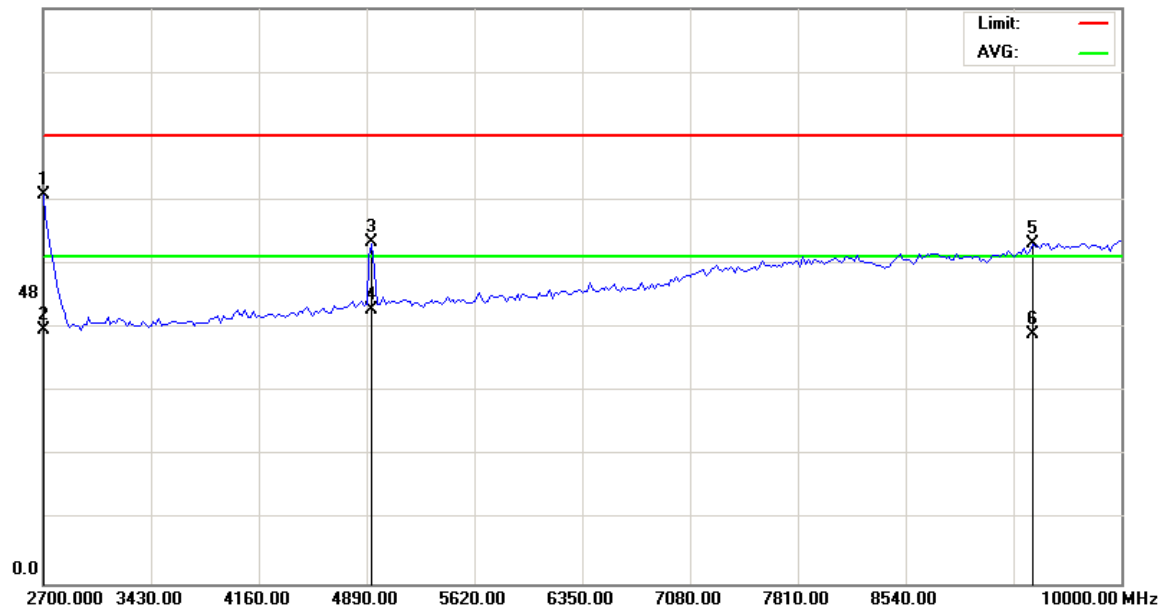
File :Raymond 103(CH2462)

Data :#5

Date: 2008/4/30

Time:

95.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11g)

Note: CH11(2462MHz)

2.7G-10G PK Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

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		2700.000	41.58	22.58	64.16	74.00	-9.84	peak			
2		2700.000	19.24	22.58	41.82	54.00	-12.18	AVG			
3		4926.500	48.63	7.66	56.29	74.00	-17.71	peak			
4	*	4926.500	37.60	7.66	45.26	54.00	-8.74	AVG			
5		9397.750	39.08	17.07	56.15	74.00	-17.85	peak			
6		9397.750	24.24	17.07	41.31	54.00	-12.69	AVG			

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

●Reference Only



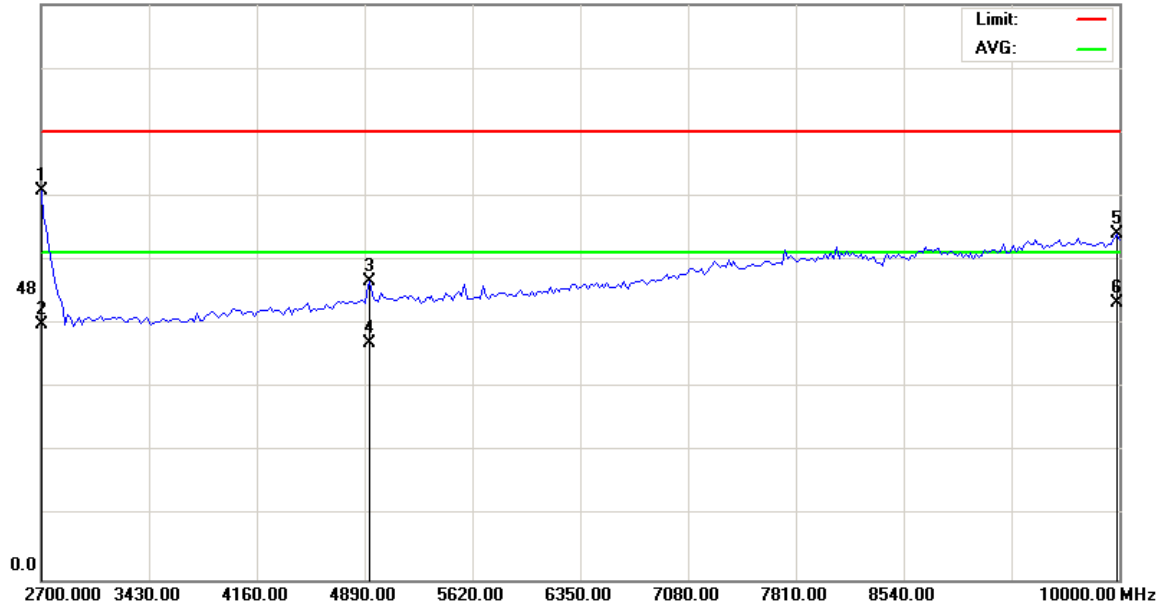
File :Raymond 103(CH2462)

Data :#7

Date: 2008/4/30

Time:

95.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11g)

Note: CH11(2462MHz)

2.7G-10G PK Scan Att:0 ; REF:95 ; Range:95(EUT Power Lever:255)

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		2700.000	41.63	22.58	64.21	74.00	-9.79	peak			
2		2700.000	19.54	22.58	42.12	54.00	-11.88	AVG			
3		4926.500	41.70	7.66	49.36	74.00	-24.64	peak			
4		4926.500	31.38	7.66	39.04	54.00	-14.96	AVG			
5		9981.750	39.16	17.88	57.04	74.00	-16.96	peak			
6	*	9981.750	27.89	17.88	45.77	54.00	-8.23	AVG			

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

●Reference Only



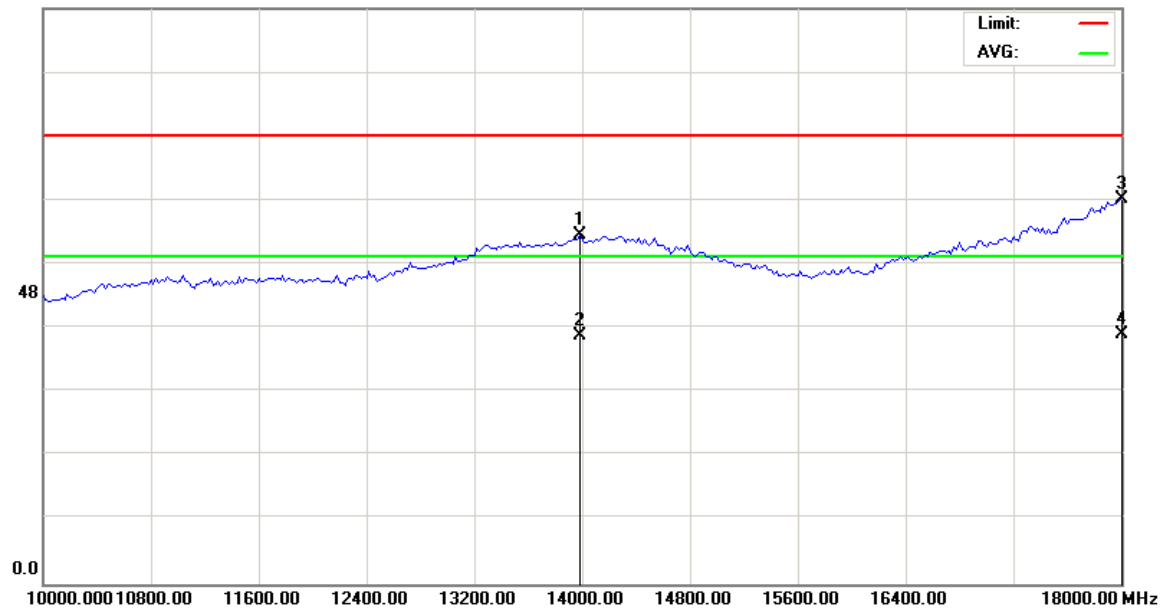
File :Raymond 103(CH2462)

Data :#9

Date: 2008/4/30

Time:

95.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11g)

Note: CH11(2462MHz)

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

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		13980.00	38.97	18.62	57.59	74.00	-16.41	peak			
2		13980.00	22.45	18.62	41.07	54.00	-12.93	AVG			
3	*	18000.00	38.03	25.57	63.60	74.00	-10.40	peak			
4		18000.00	15.68	25.57	41.25	54.00	-12.75	AVG			

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

●Reference Only



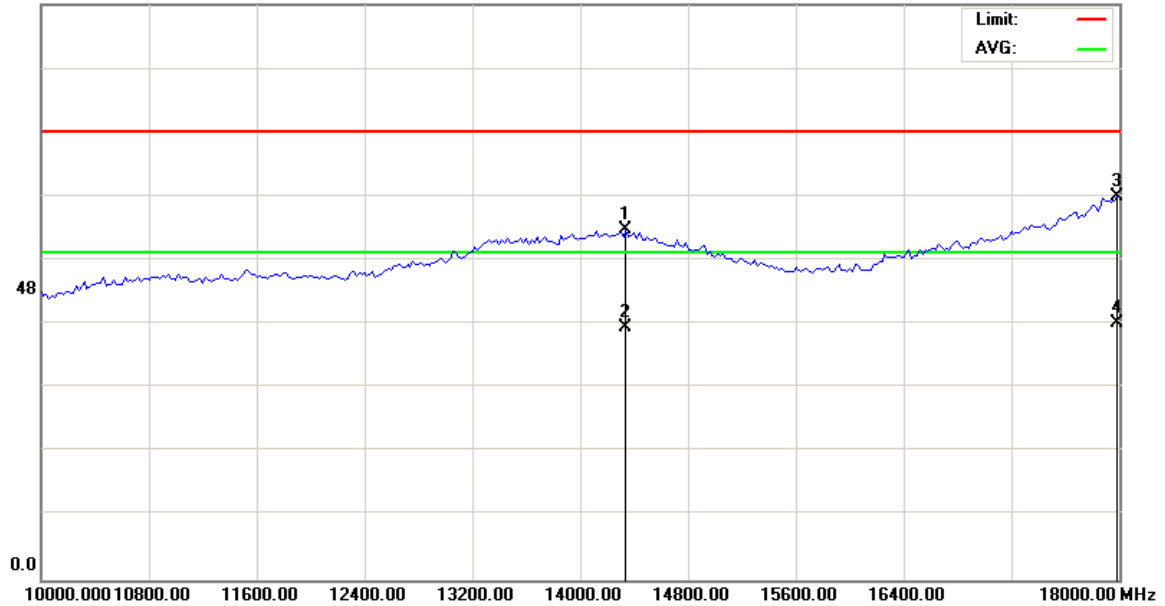
File :Raymond 103(CH2462)

Data :#11

Date: 2008/4/30

Time:

95.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11g)

Note: CH11(2462MHz)

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

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		14340.00	39.40	18.54	57.94	74.00	-16.06	peak			
2		14340.00	23.22	18.54	41.76	54.00	-12.24	AVG			
3	*	17980.00	38.02	25.21	63.23	74.00	-10.77	peak			
4		17980.00	17.24	25.21	42.45	54.00	-11.55	AVG			

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

●Reference Only



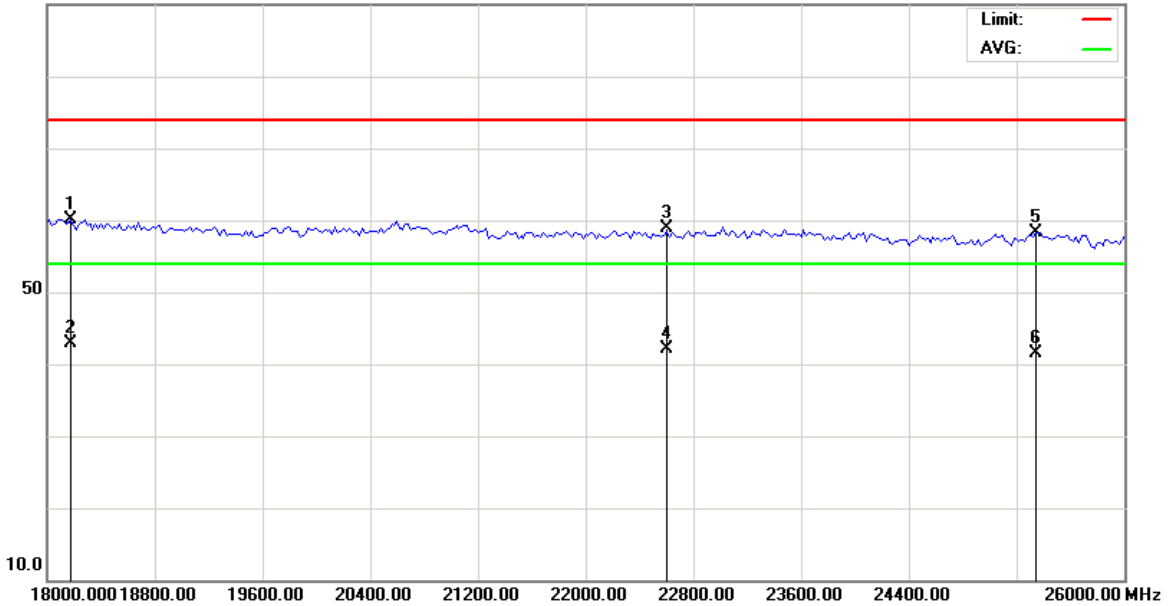
File :Raymond 103(CH2462)

Data :#13

Date: 2008/4/30

Time:

90.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11g)

Note: CH11(2462MHz)

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		18180.00	25.74	34.34	60.08	74.00	-13.92	peak			
2	*	18180.00	8.56	34.34	42.90	54.00	-11.10	AVG			
3		22600.00	28.37	30.44	58.81	74.00	-15.19	peak			
4		22600.00	11.68	30.44	42.12	54.00	-11.88	AVG			
5		25340.00	29.78	28.57	58.35	74.00	-15.65	peak			
6		25340.00	12.85	28.57	41.42	54.00	-12.58	AVG			

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

●Reference Only



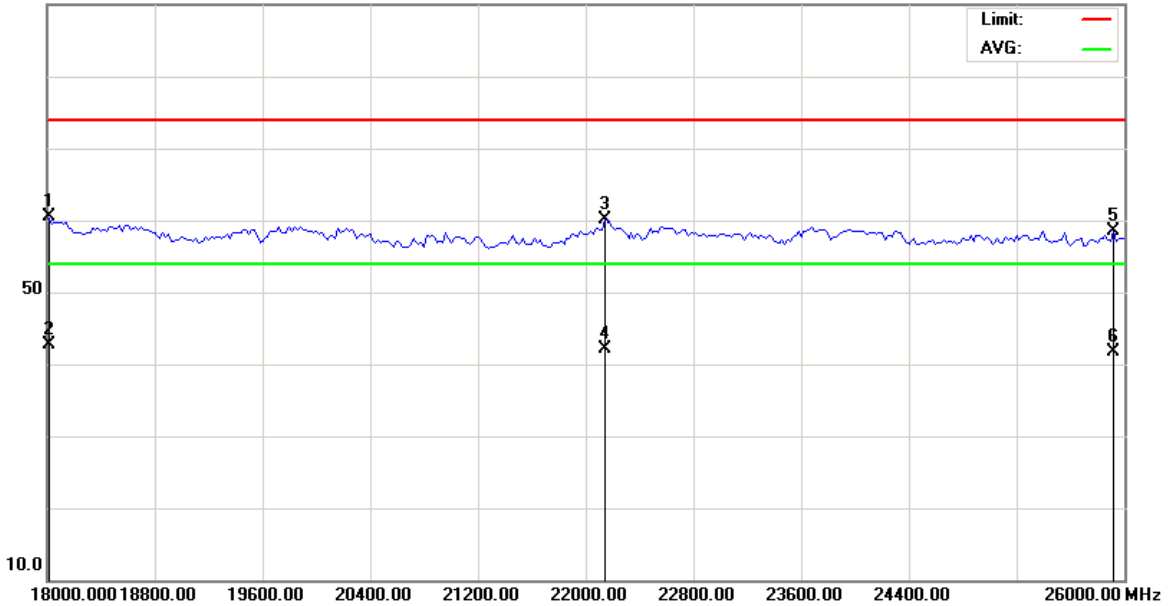
File :Raymond 103(CH2462)

Data :#14

Date: 2008/4/30

Time:

90.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 1m

M/N:

Mode: WIFI(11g)

Note: CH11(2462MHz)

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		18020.00	26.43	33.99	60.42	74.00	-13.58	peak			
2	*	18020.00	8.69	33.99	42.68	54.00	-11.32	AVG			
3		22140.00	29.32	30.76	60.08	74.00	-13.92	peak			
4		22140.00	11.41	30.76	42.17	54.00	-11.83	AVG			
5		25920.00	30.32	28.17	58.49	74.00	-15.51	peak			
6		25920.00	13.57	28.17	41.74	54.00	-12.26	AVG			

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

●Reference Only

4. Maximum Conducted Output Power Requirements

4.1 Test Condition & Setup:

The EUT was setup to ANSI C63.4, 2003; tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

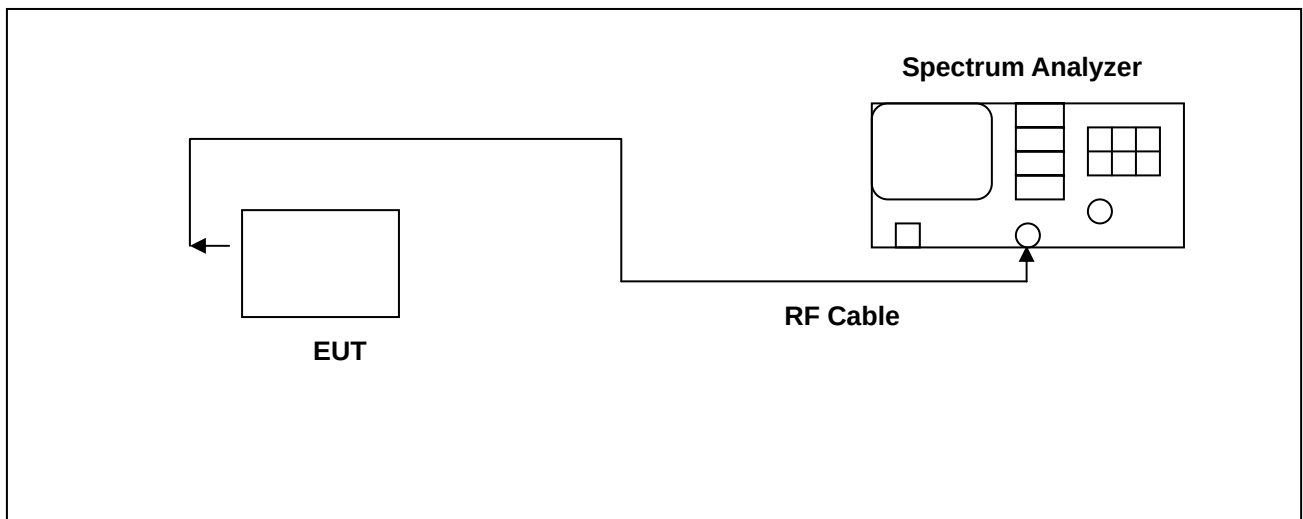
The tests below are run with the EUT's transmitter set at high power in TX mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to spectrum analyzer. 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	MY45300744	Nov. 29, 2007	Nov.29, 2008

4.4 Test Result:

802.11b

Frequency (MHz)	Output (dBm)	Required Limit
2412	18.31	<30dBm
2437	17.54	<30dBm
2462	18.19	<30dBm

802.11g

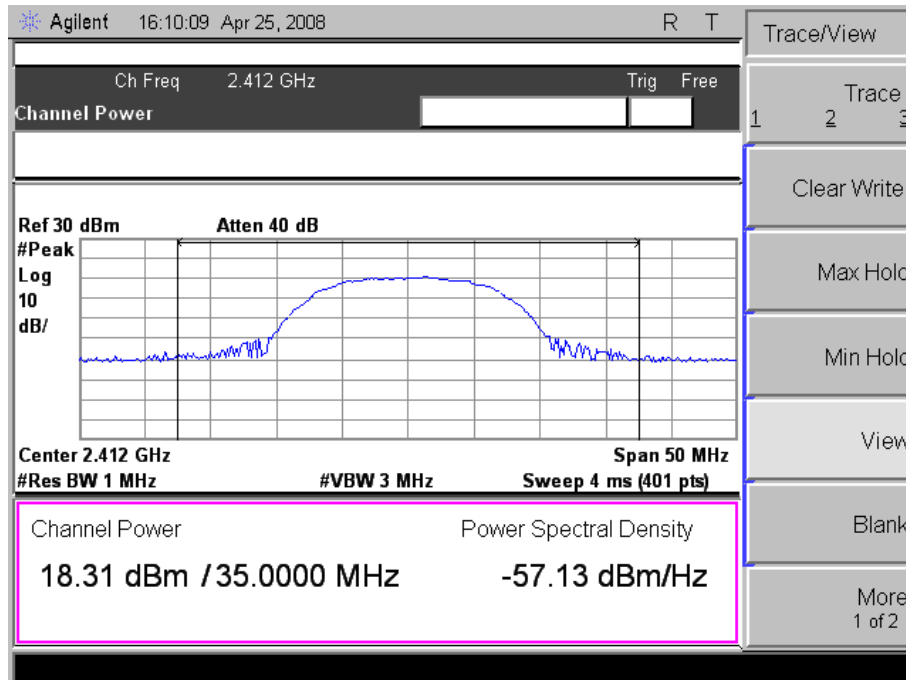
Frequency (MHz)	Output (dBm)	Required Limit
2412	17.45	<30dBm
2437	17.26	<30dBm
2462	17.11	<30dBm

Note: Test Graphs See next page.

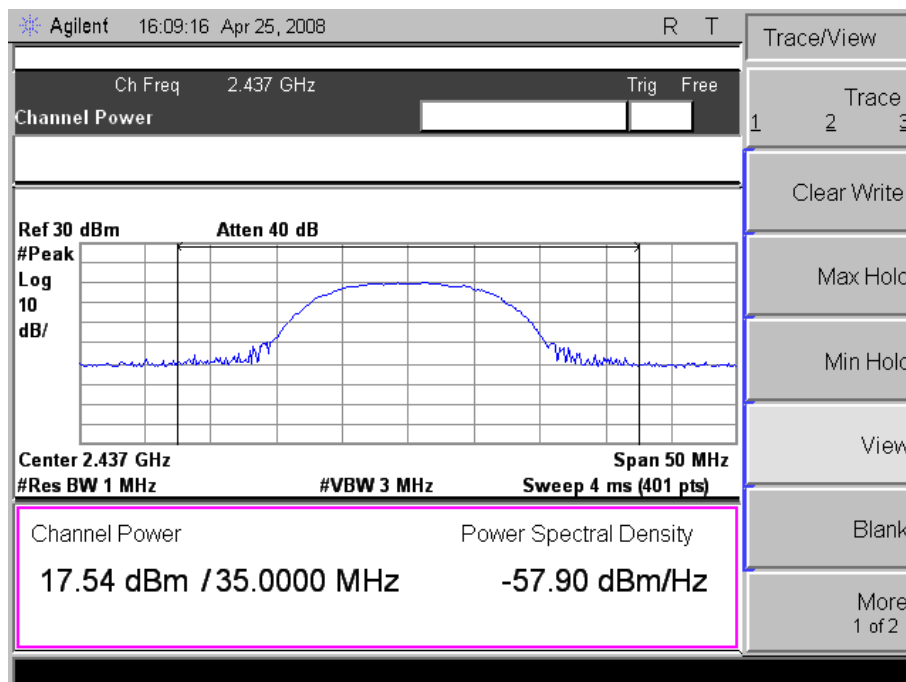


4.5 Test Graphs

802.11b CH1 (2412MHz)

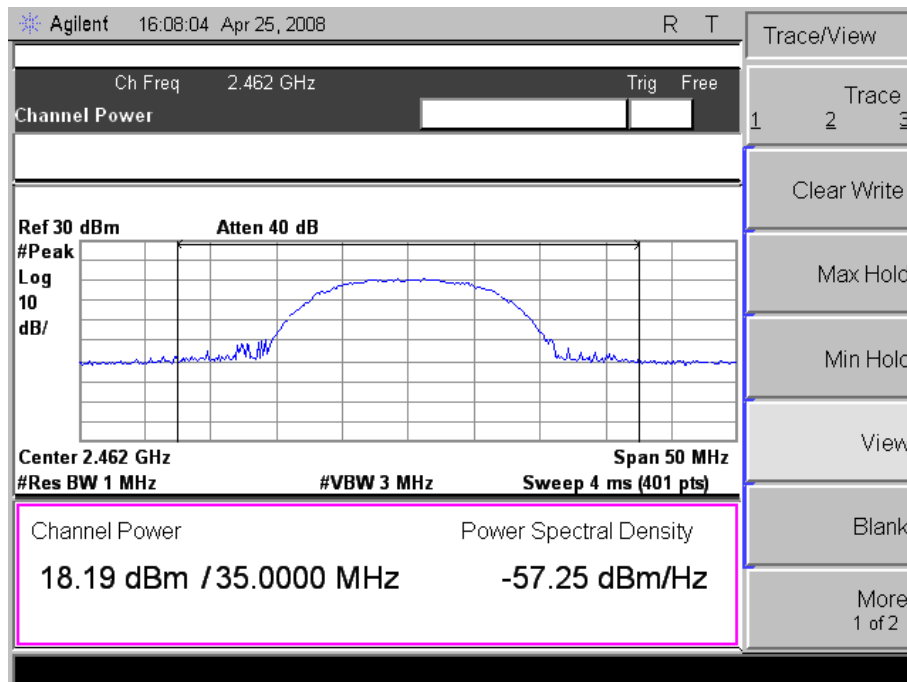


802.11b CH6 (2437MHz)



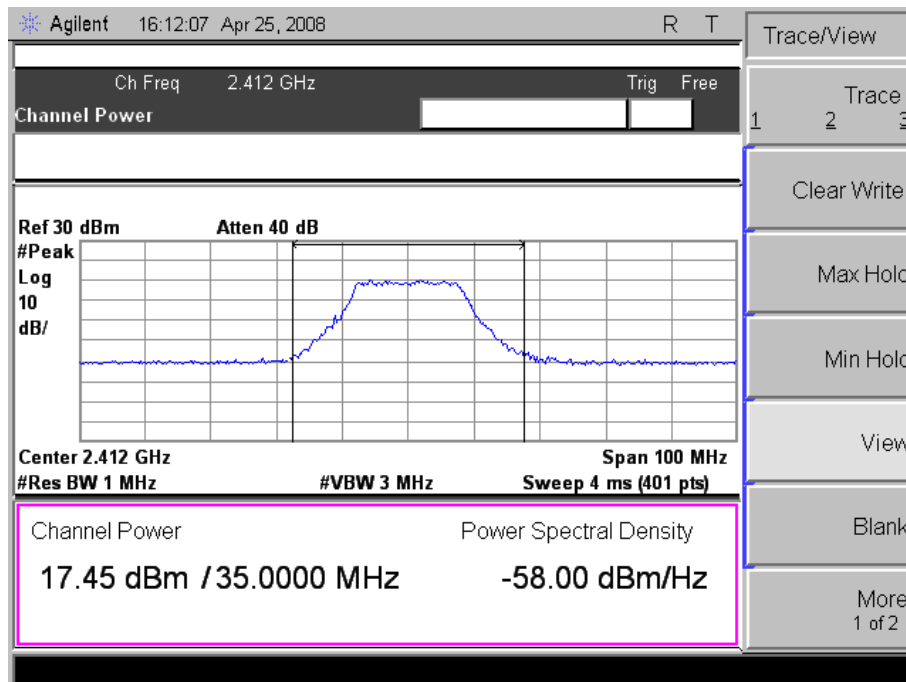


802.11b CH11 (2462MHz)

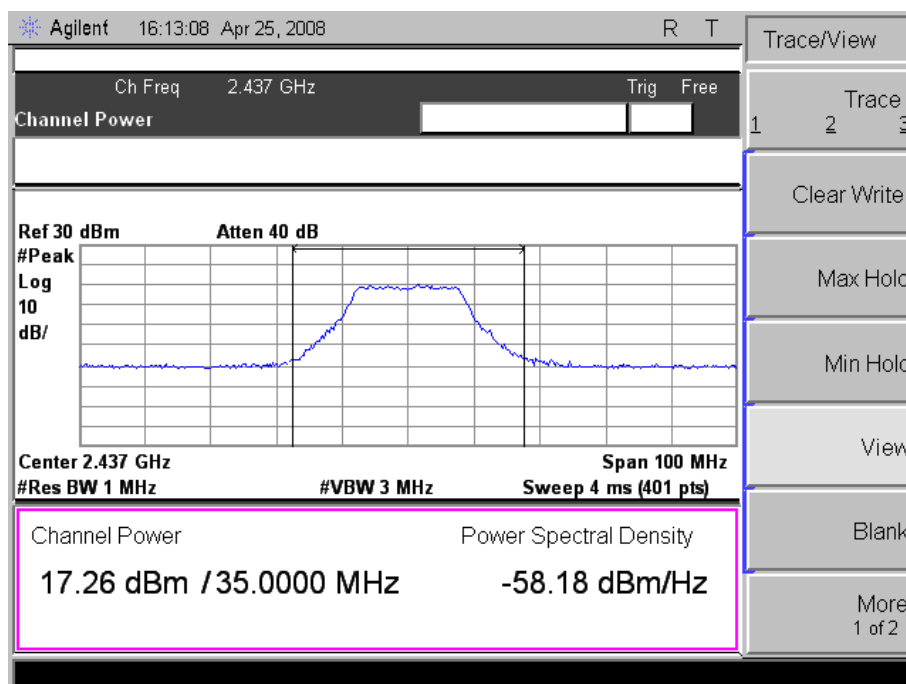




802.11g CH1 (2412MHz)

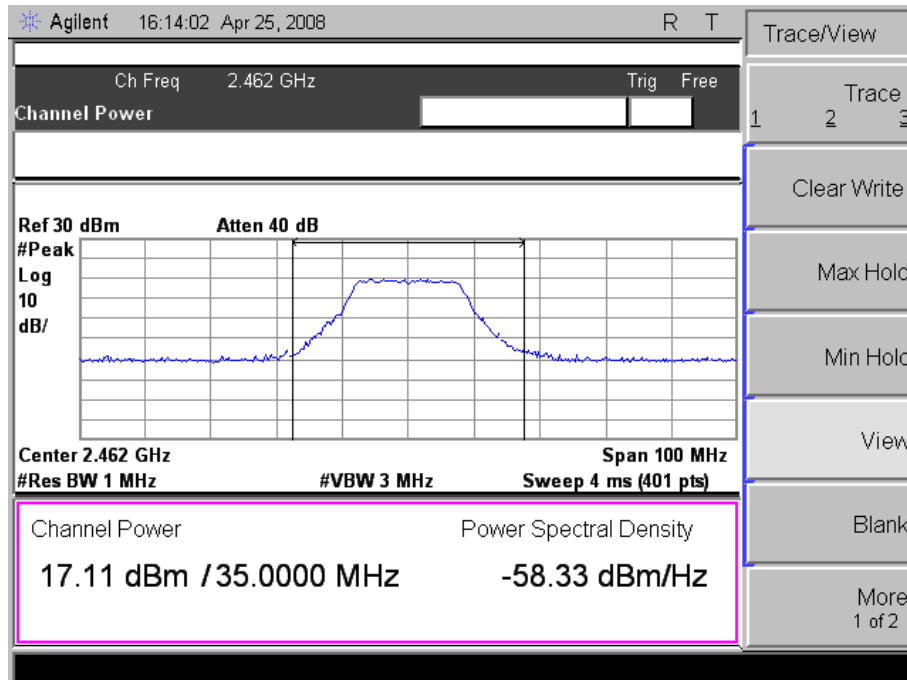


802.11g CH6 (2437MHz)





802.11g CH11 (2462MHz)





5. Minimum 6dB RF Bandwidth Requirements

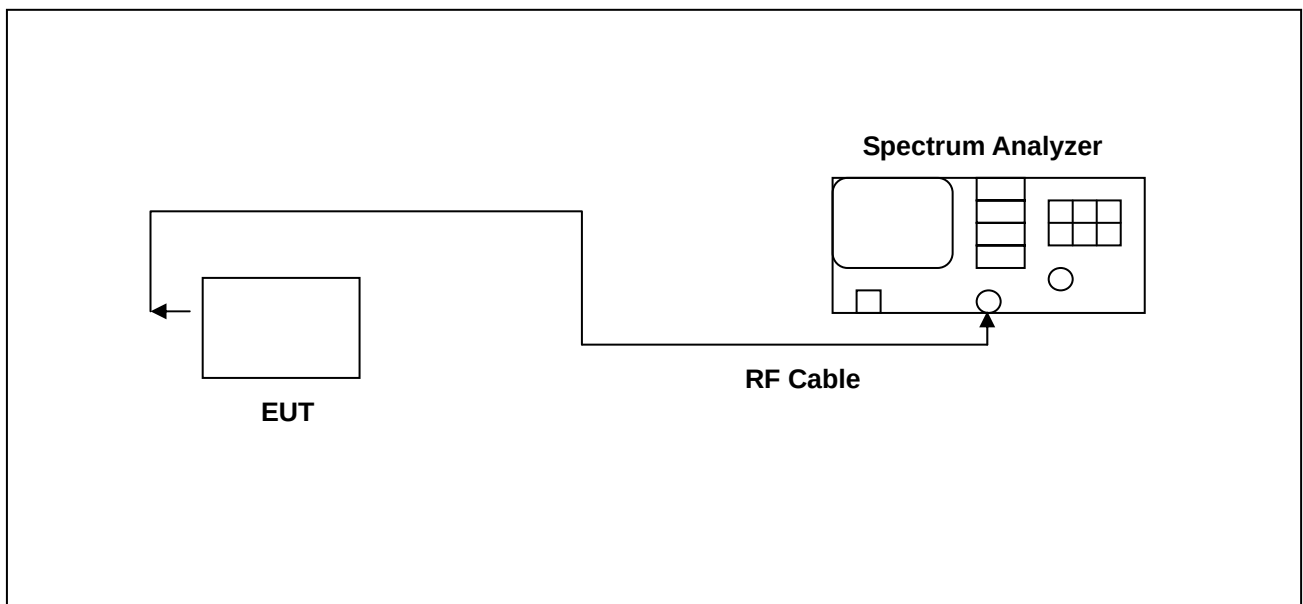
5.1 Test Condition & Setup:

The EUT was setup to ANSI C63.4, 2003; tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than PEAK level. The 6 dB bandwidth was determined from where the channel output spectrum intersected the display line.

The test was performed at 3 channels (Channel 1, 6, 11)

5.2 Test Instruments Configuration:



5.3 Test Equipment List:

Describe	Manufacturer	Model	Serial Number	Calibration	
				Cal. Date	Due Date
Spectrum Analyzer	Agilent	E4445A	MY45300744	Nov. 29, 2007	Nov. 29, 2008



5.4 Test Result:

802.11b

Frequency (MHz)	Min. 6dB Bandwidth (MHz)	Required Limit
2412	11.750	> 500 KHz
2437	11.375	> 500 KHz
2462	11.375	> 500 KHz

802.11g

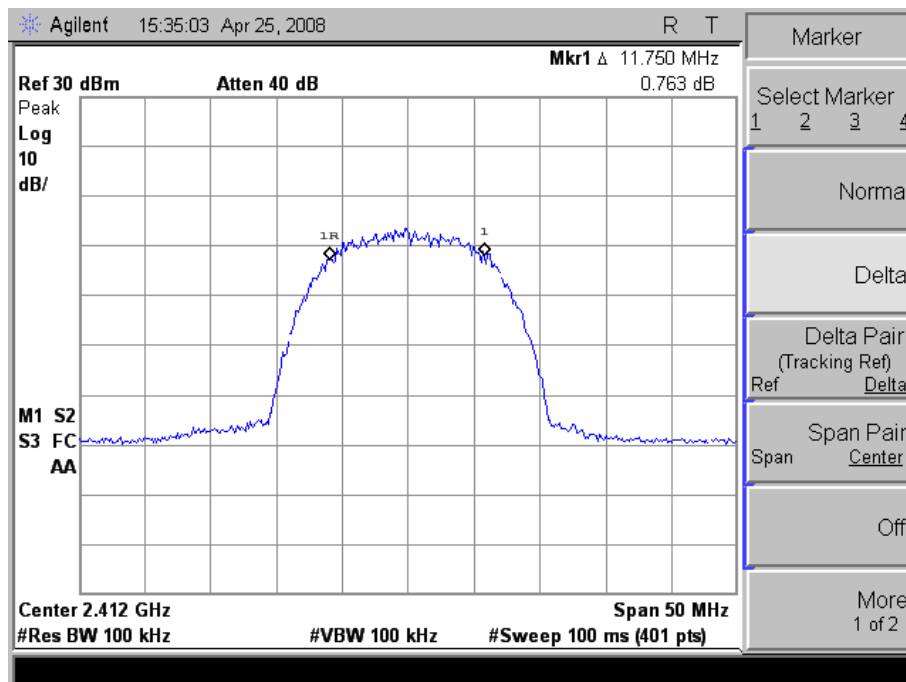
Frequency (MHz)	Min. 6dB Bandwidth (MHz)	Required Limit
2412	16.625	> 500 KHz
2437	16.250	> 500 KHz
2462	16.250	> 500 KHz

Note: Test Graphs See next page.

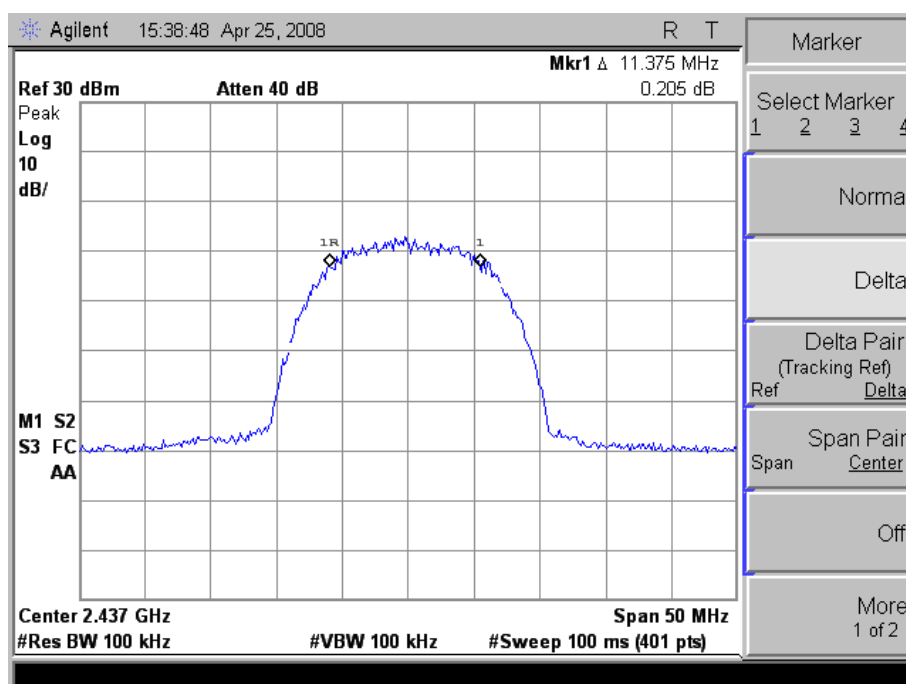


5.5 Test Graphs

802.11b (2412MHz)

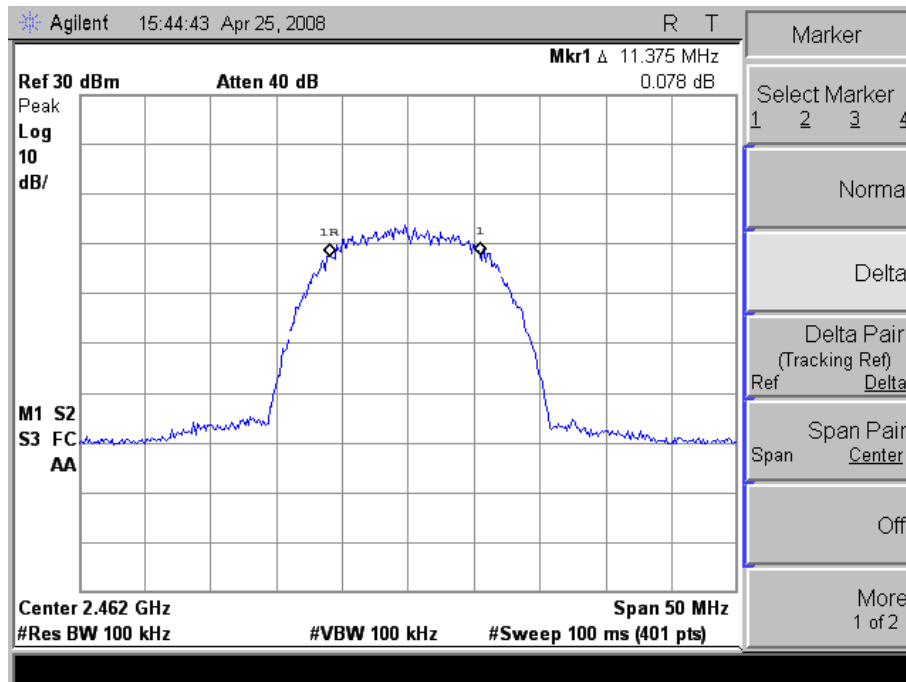


802.11b (2437MHz)



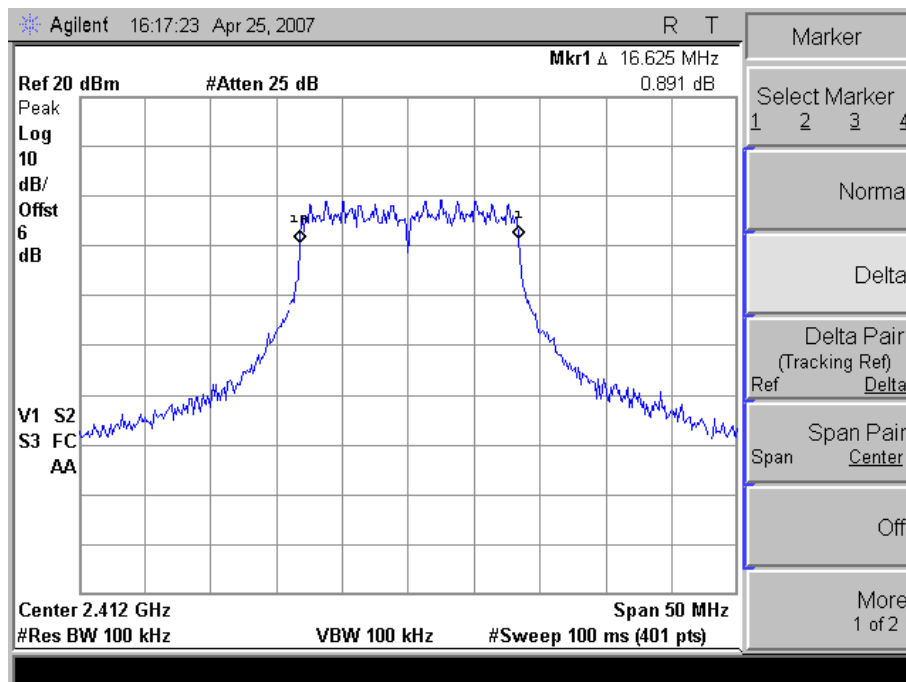


802.11b (2462MHz)

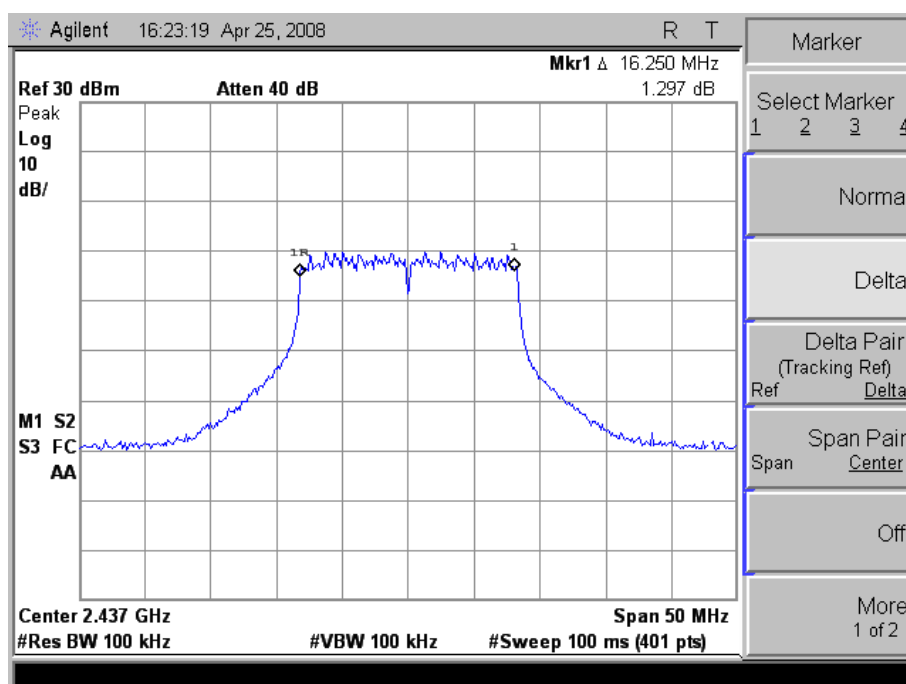




802.11g (2412MHz)



802.11g (2437MHz)



6. Maximum Power Density Requirements

6.1 Test Condition & Setup:

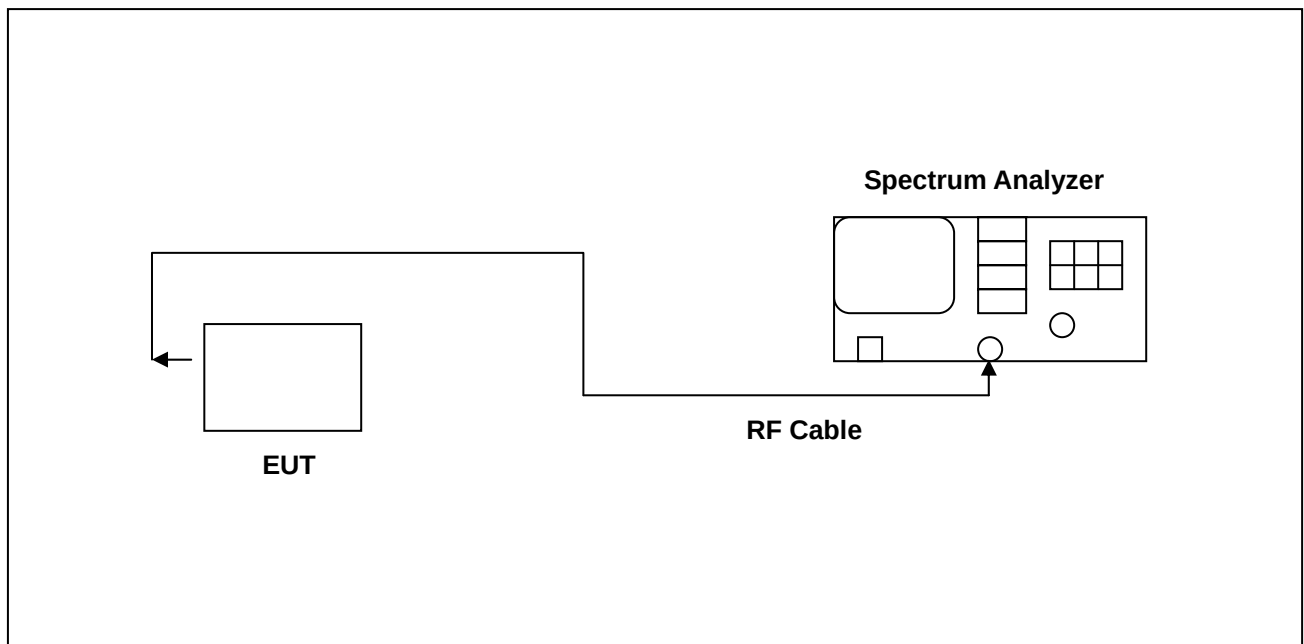
The EUT was setup to ANSI C63.4, 2003; tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The spectrum analyzer RES BW was set to 3 kHz. The START and STOP frequencies were set to the band edges of the maximum output pass band. If there is no clear maximum amplitude in any given portion of the band, it may be necessary to make measurements at a number of bands defined by several START and STOP frequency pairs. The specification calls for a 1 second interval at each 3 kHz bandwidth; total SWEEP TIME is calculated as follows:

$$\text{SWEEP TIME (SEC)} = (\text{Fstop, kHz} - \text{Fstart, kHz}) / 3 \text{ kHz}$$

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.

6.2 Test Instruments Configuration:





6.3 Test Equipment List:

Describe	Manufacturer	Model	Serial Number	Calibration	
				Cal. Date	Due Date
Spectrum Analyzer	Agilent	E4445A	MY45300744	Nov. 29, 2007	Nov. 29, 2008

6.4 Test Result:

802.11b

Frequency (MHz)	Power Density (dBm)	Required Limit
2412	-10.65	<8dBm
2437	-11.28	<8dBm
2462	-10.58	<8dBm

802.11g

Frequency (MHz)	Power Density (dBm)	Required Limit
2412	-10.98	<8dBm
2437	-9.546	<8dBm
2462	-9.534	<8dBm

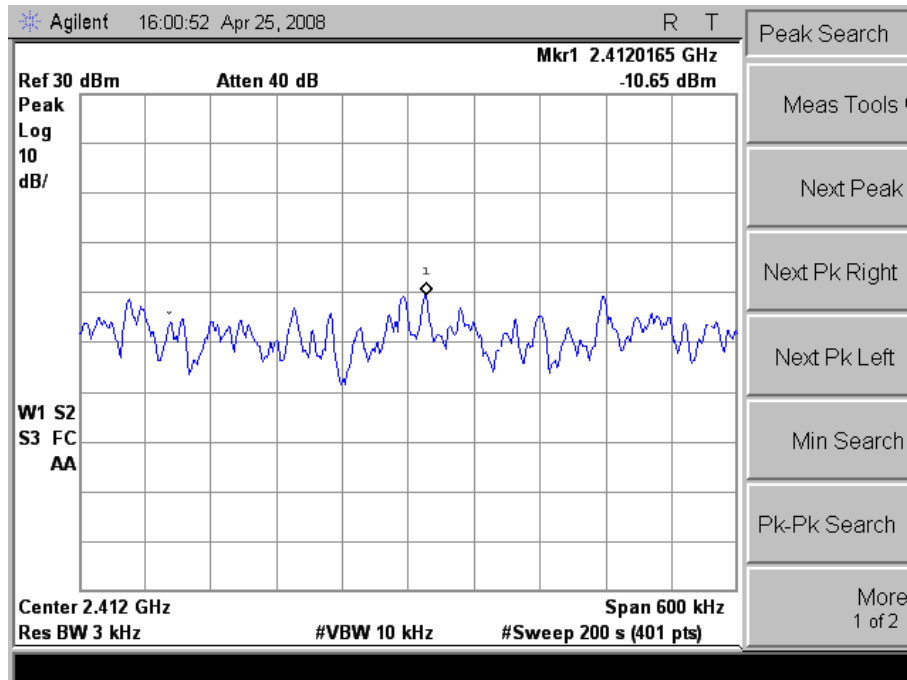
Note:

1. Frequency Span= 600 kHz
2. Sweep Time = Frequency Span/3 kHz=200secs
3. Test Graphs See next page.

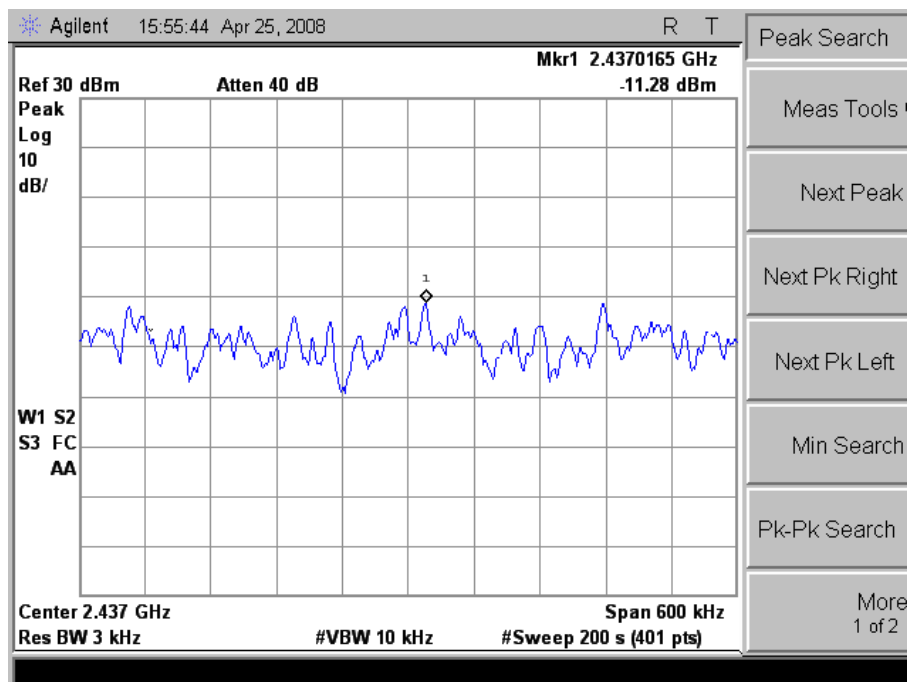


6.5 Test Graphs

802.11b (2412MHz)

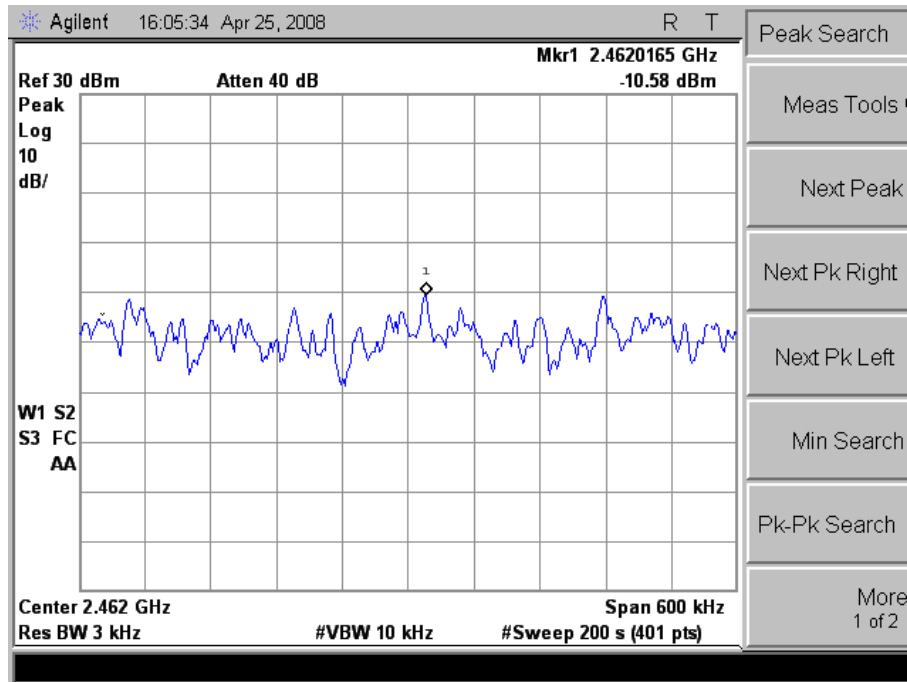


802.11b (2437MHz)



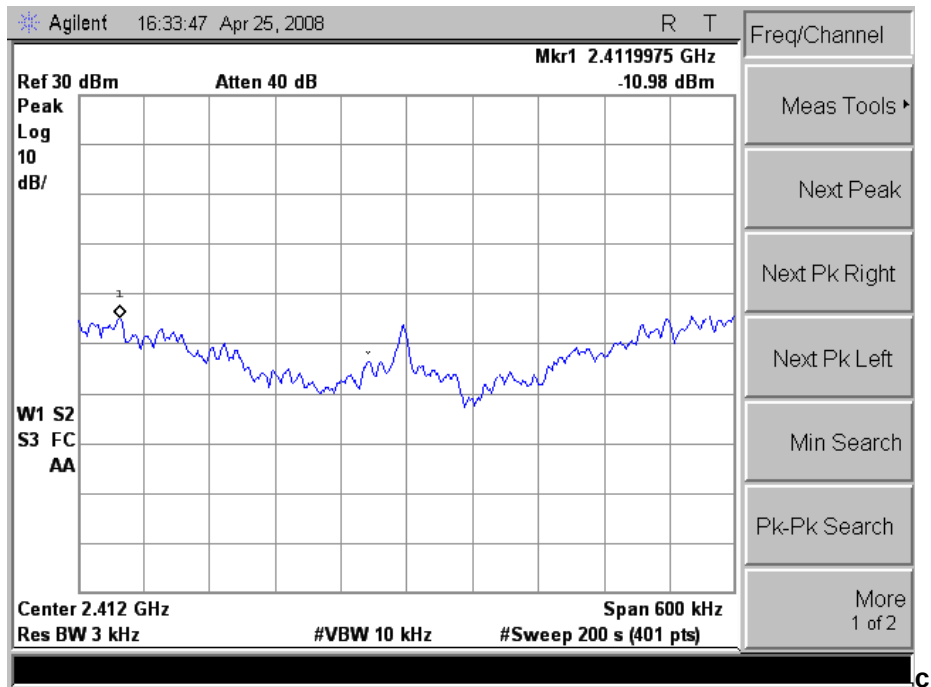


802.11b (2462MHz)

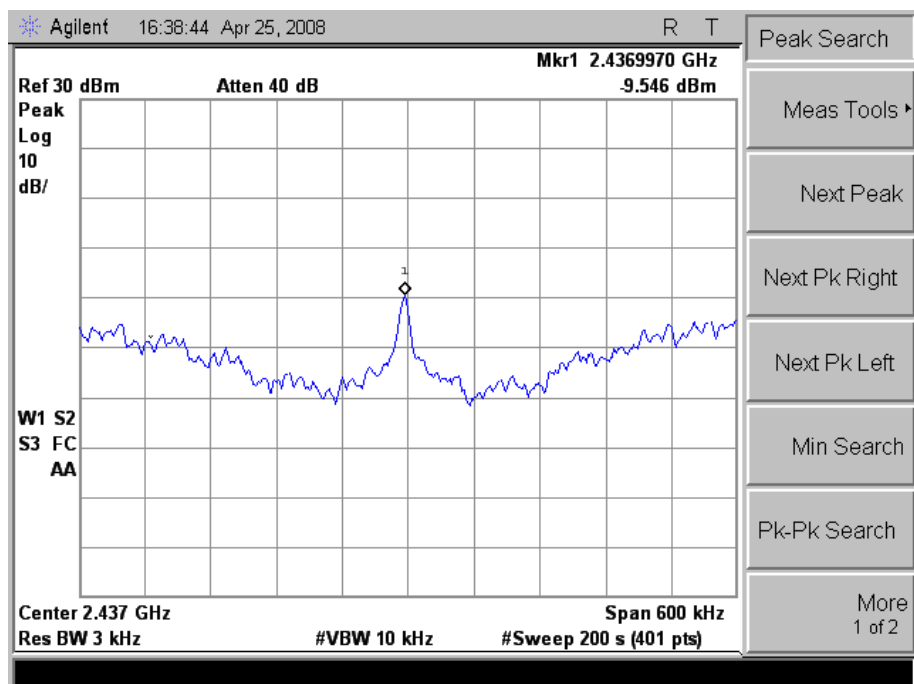




802.11g (2412MHz)

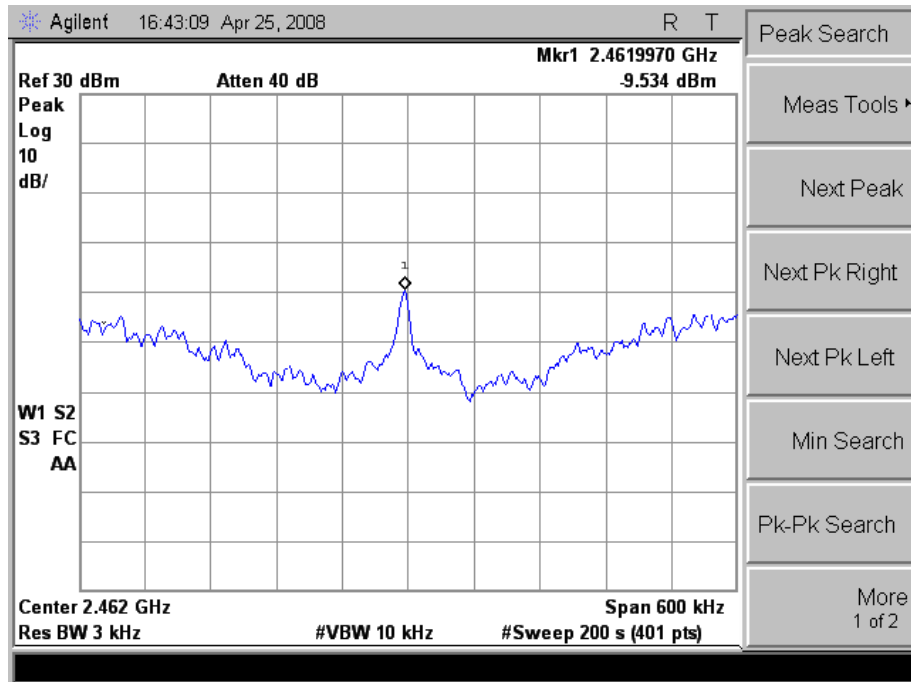


802.11g (2437MHz)





802.11g (2462MHz)



7. Out of Band Conducted Emissions Requirements

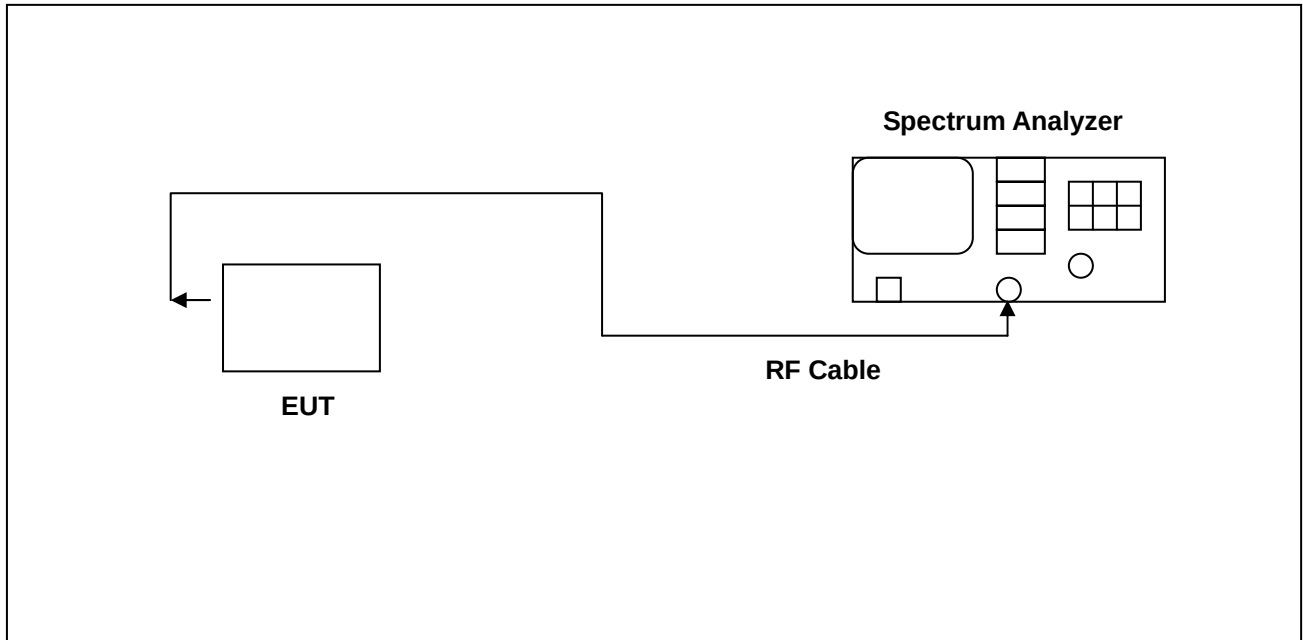
7.1 Test Condition & Setup:

The EUT was setup to ANSI C63.4, 2003; tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

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)

7.2 Test Instruments Configuration:





7.3 Test Equipment List:

Describe	Manufacturer	Model	Serial Number	Calibration	
				Cal. Date	Due Date
Spectrum Analyzer	Agilent	E4445A	MY45300744	Nov.29, 2007	Nov.29, 2008

7.4 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.

Note: Test Graphs See next page.



7.5 Test Graphs

7.5.1 802.11b Test Graphs

Please refer to next pager of detail testing data.



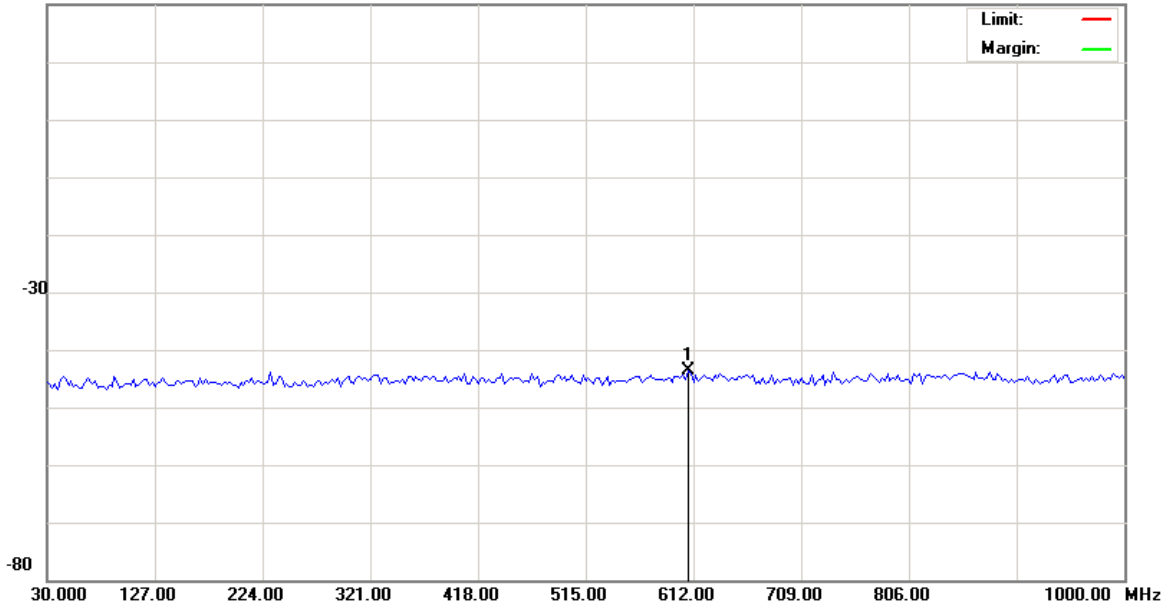
File :Raymond 103(11b)(20dB)

Data :#1

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11b)

Note: CH01

加Notch(3TNF-800)

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	*	607.1500	-44.66	1.00	-43.66			peak		Comment

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

●Reference Only



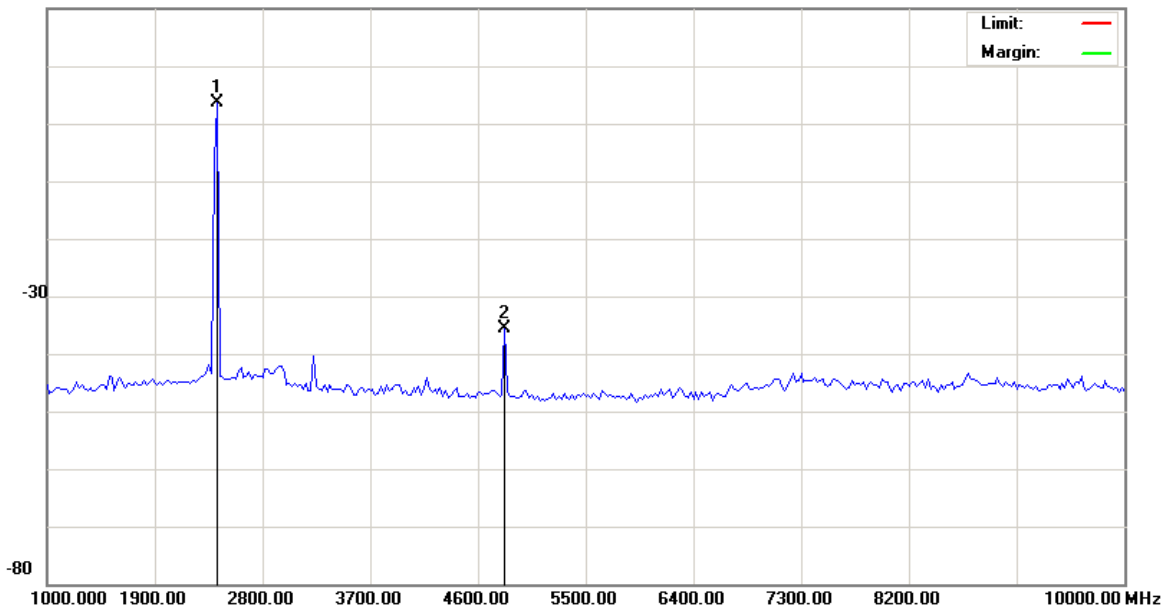
File :Raymond 103(11b)(20dB)

Data :#2

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11b)

Note: CH01

加Notch(3TNF-800)

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	*	2417.500	2.51	1.00	3.51					peak
2		4825.000	-36.55	1.00	-35.55					peak

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

●Reference Only



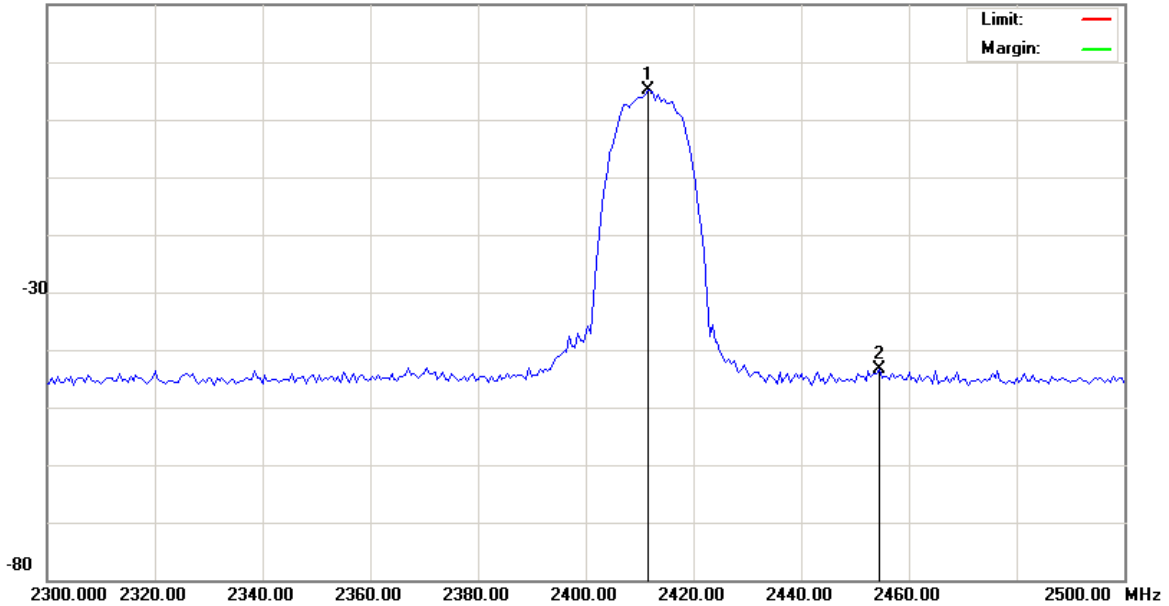
File :Raymond 103(11b)(20dB)

Data :#3

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11b)

Note: CH01

加Notch(3TNF-800)

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	*	2411.500	4.21	1.00	5.21					peak
2		2454.500	-44.26	1.00	-43.26					peak

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

●Reference Only



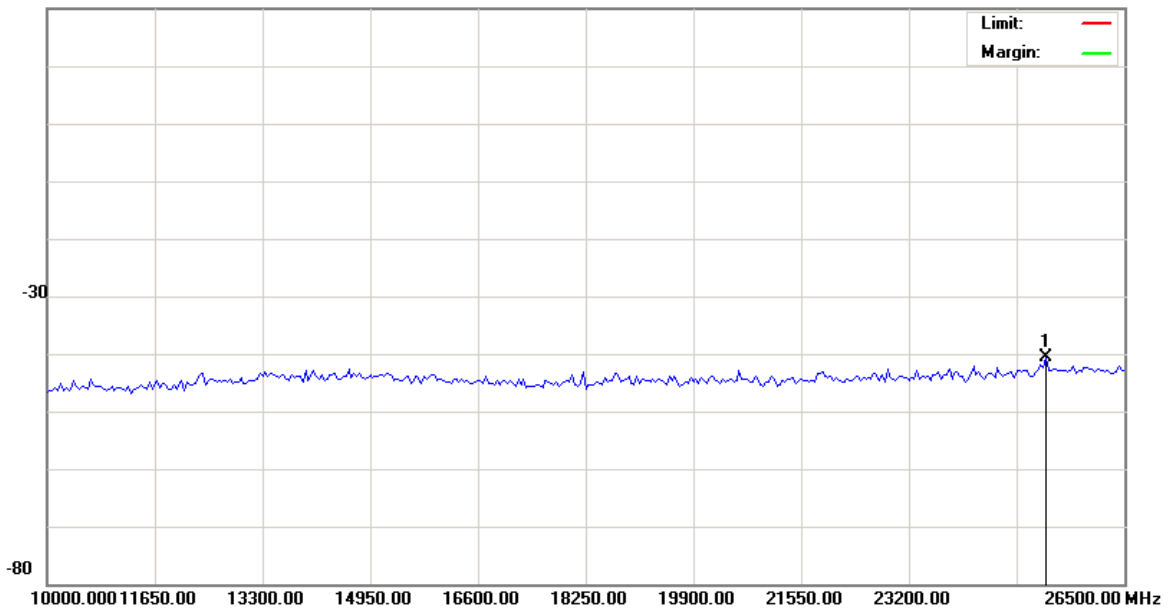
File :Raymond 103(11b)(20dB)

Data :#4

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11b)

Note: CH01

加Notch(3TNF-800)

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	*	25303.75	-41.64	1.00	-40.64					peak

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

●Reference Only



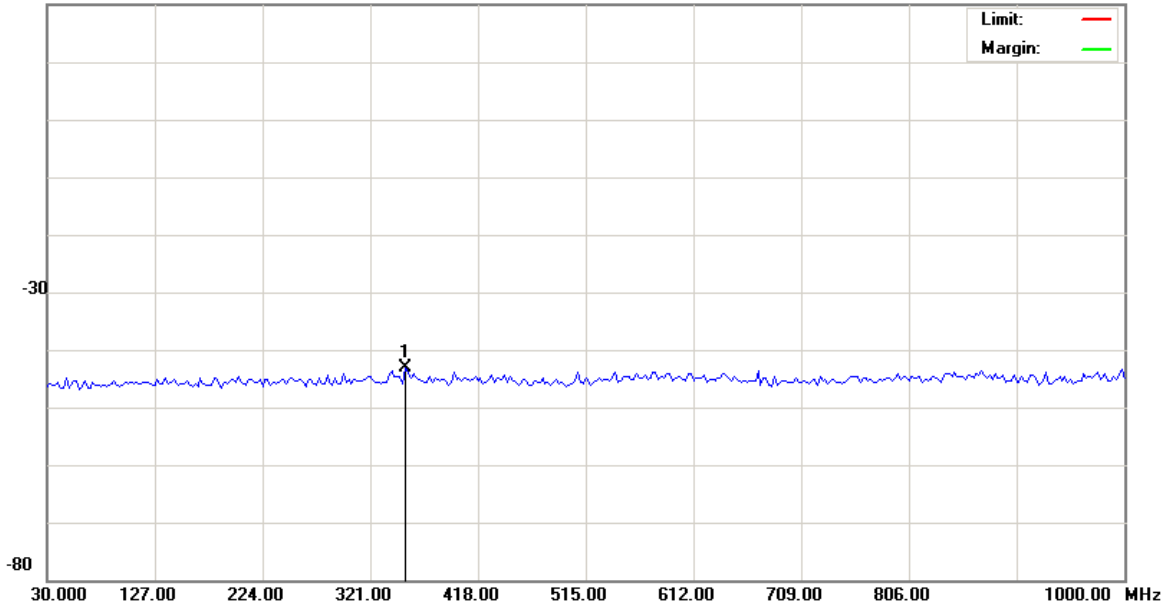
File :Raymond 103(11b)(20dB)

Data :#5

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11b)

Note: CH06

加Notch(3TNF-800)

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	*	352.5250	-44.04	1.00	-43.04					peak

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

●Reference Only



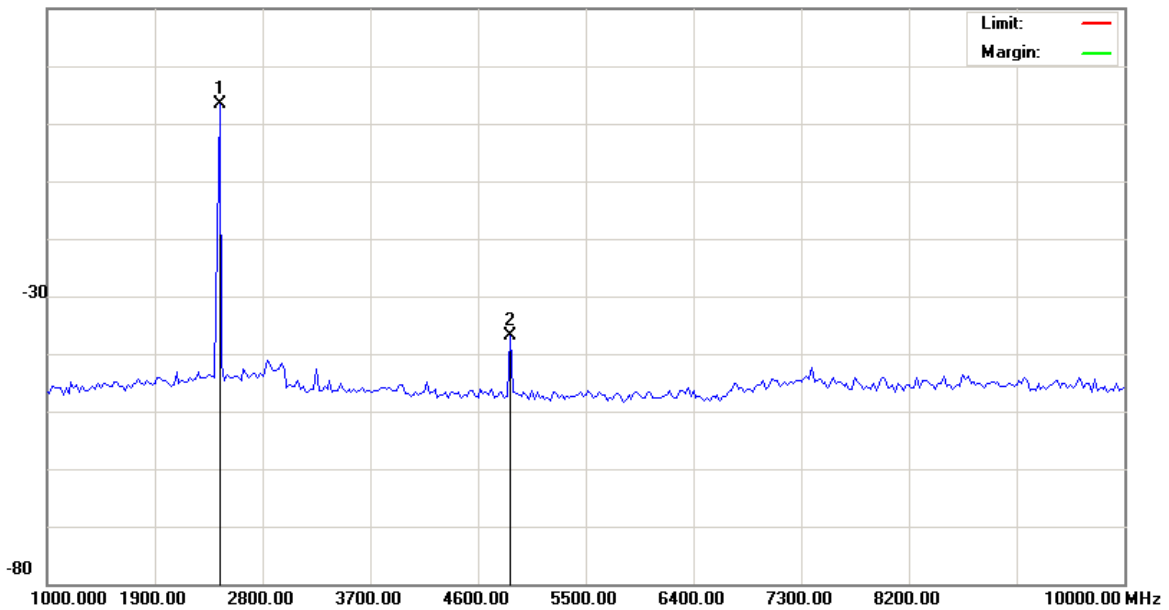
File :Raymond 103(11b)(20dB)

Data :#6

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11b)

Note: CH06

加Notch(3TNF-800)

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	2.46	1.00	3.46					peak
2		4870.000	-37.99	1.00	-36.99					peak

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

●Reference Only



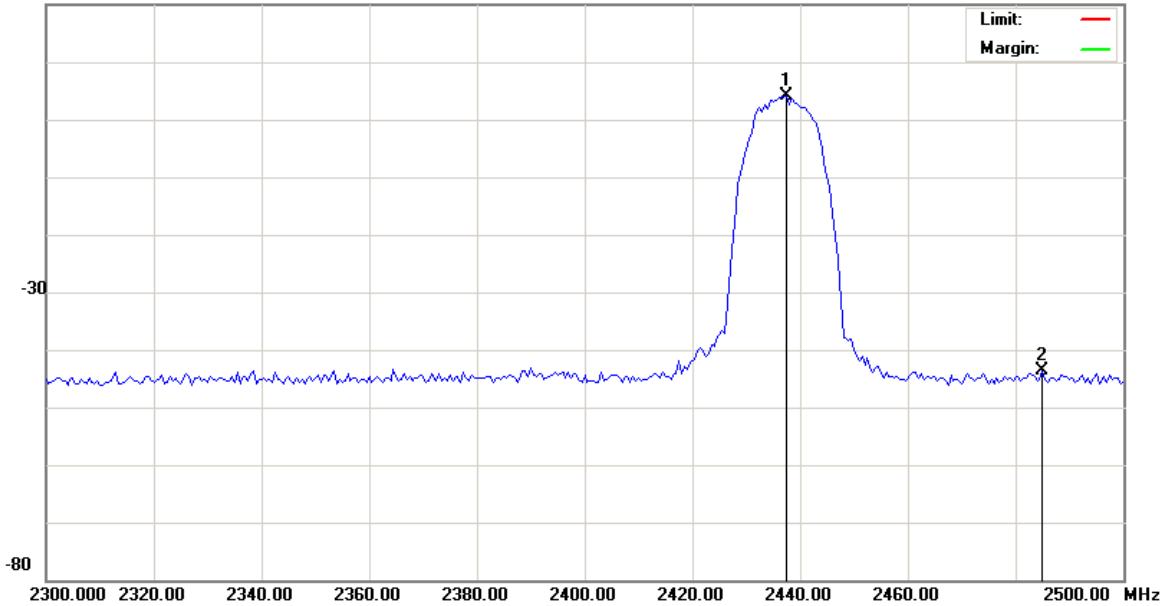
File :Raymond 103(11b)(20dB)

Data :#7

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11b)

Note: CH06

加Notch(3TNF-800)

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	*	2437.500	3.01	1.00	4.01			peak		
2		2485.000	-44.59	1.00	-43.59			peak		

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

●Reference Only



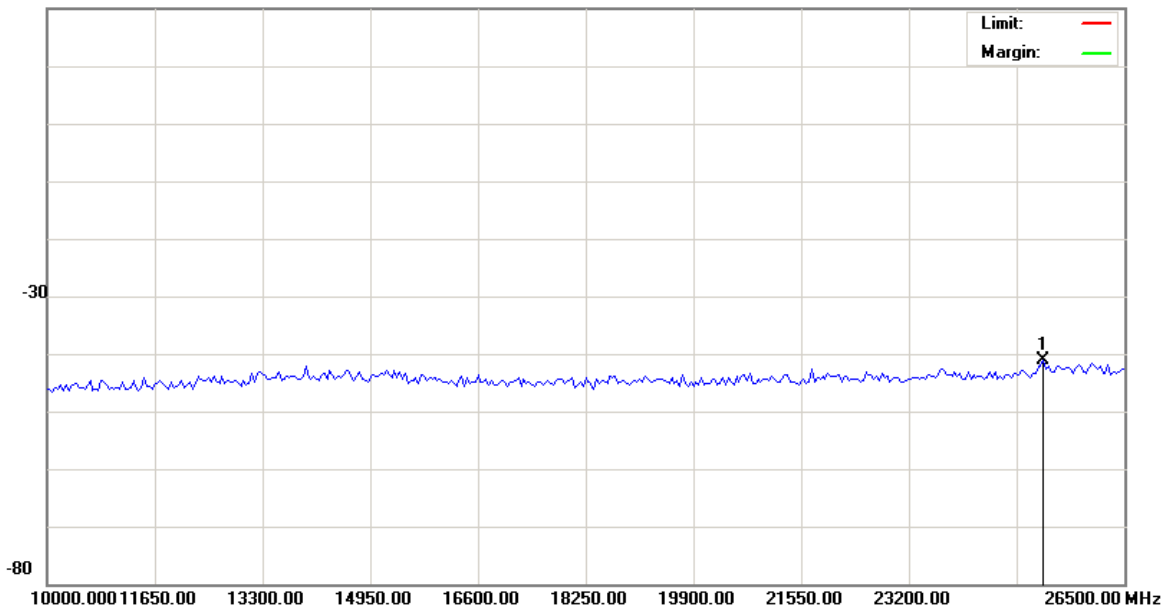
File :Raymond 103(11b)(20dB)

Data :#8

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11b)

Note: CH06

加Notch(3TNF-800)

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	*	25262.50	-42.19	1.00	-41.19			peak		

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

●Reference Only



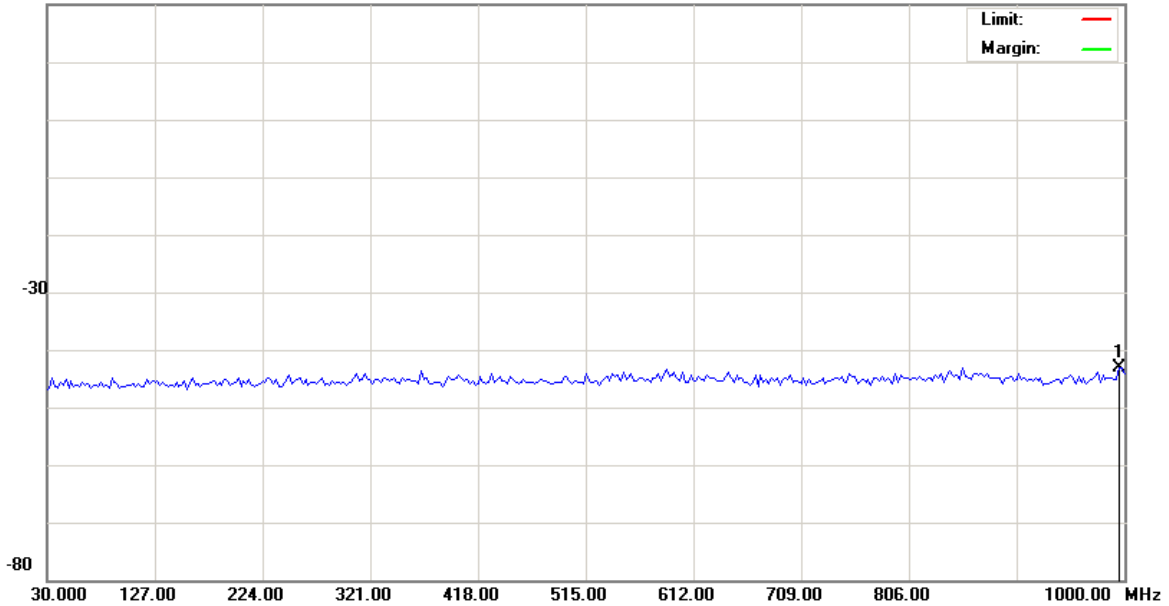
File :Raymond 103(11b)(20dB)

Data :#9

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11b)

Note: CH11

加Notch(3TNF-800)

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	*	995.1500	-44.11	1.00	-43.11		peak			

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

●Reference Only

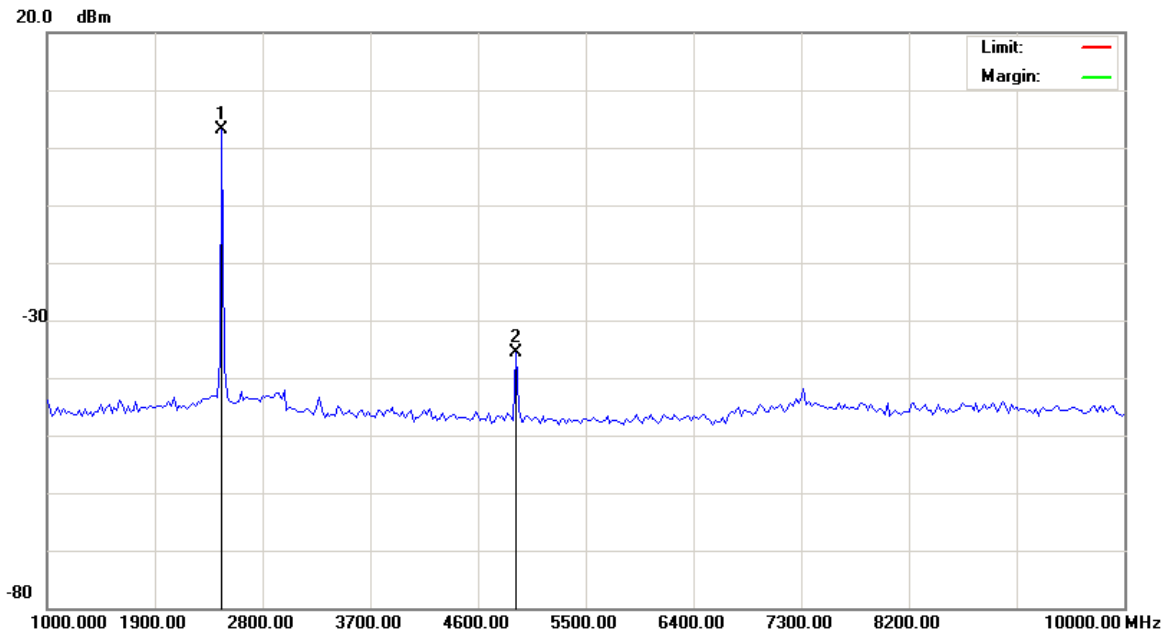


File :Raymond 103(11b)(20dB)

Data :#10

Date: 2008/4/24

Time:



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11b)

Note: CH11

加Notch(3TNF-800)

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	*	2462.500	2.13	1.00	3.13					peak
2		4915.000	-36.63	1.00	-35.63					peak

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

●Reference Only



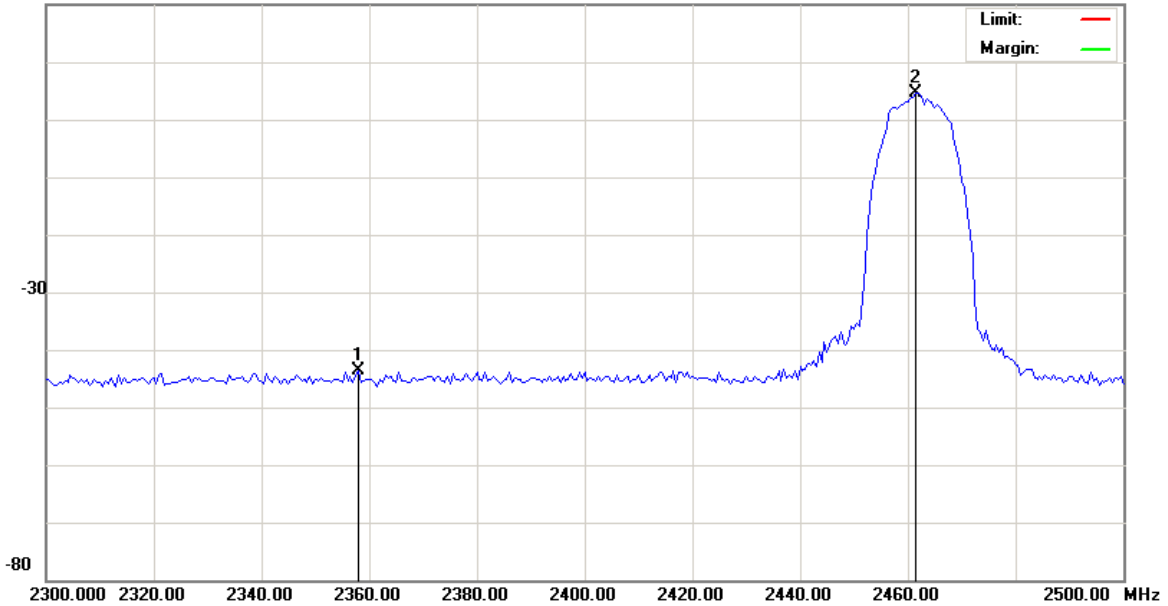
File :Raymond 103(11b)(20dB)

Data :#11

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11b)

Note: CH11

加Notch(3TNF-800)

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		2358.000	-44.65	1.00	-43.65					peak
2	*	2461.500	3.54	1.00	4.54					peak

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

●Reference Only



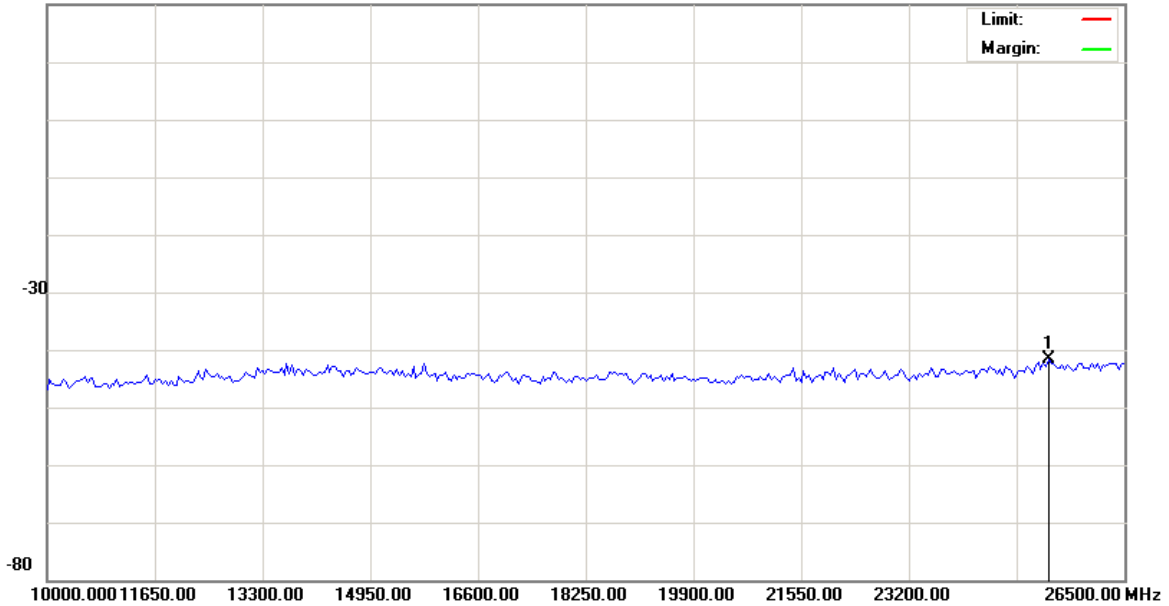
File :Raymond 103(11b)(20dB)

Data :#12

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11b)

Note: CH11

加Notch(3TNF-800)

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	*	25345.00	-42.71	1.00	-41.71					peak

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

●Reference Only



7.5.2 802.11g Test Graphs

Please refer to next pager of detail testing data.



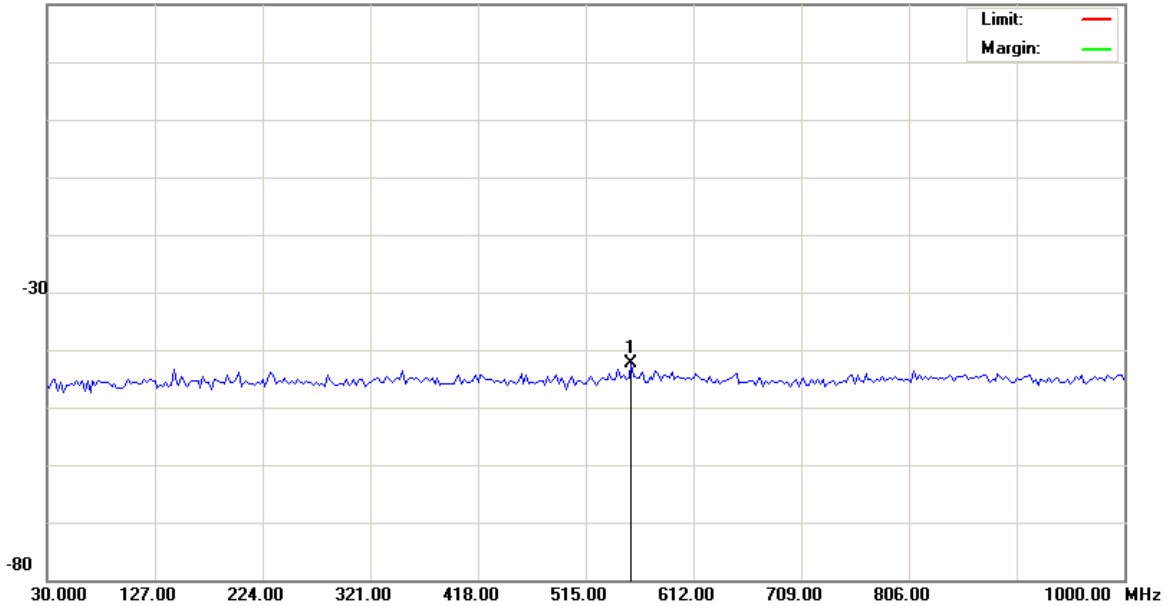
File :Raymond 103(11g)(20dB)

Data :#1

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11g)

Note: CH01

加Notch(3TNF-800)

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	*	556.2250	-43.40	1.00	-42.40					peak

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

●Reference Only



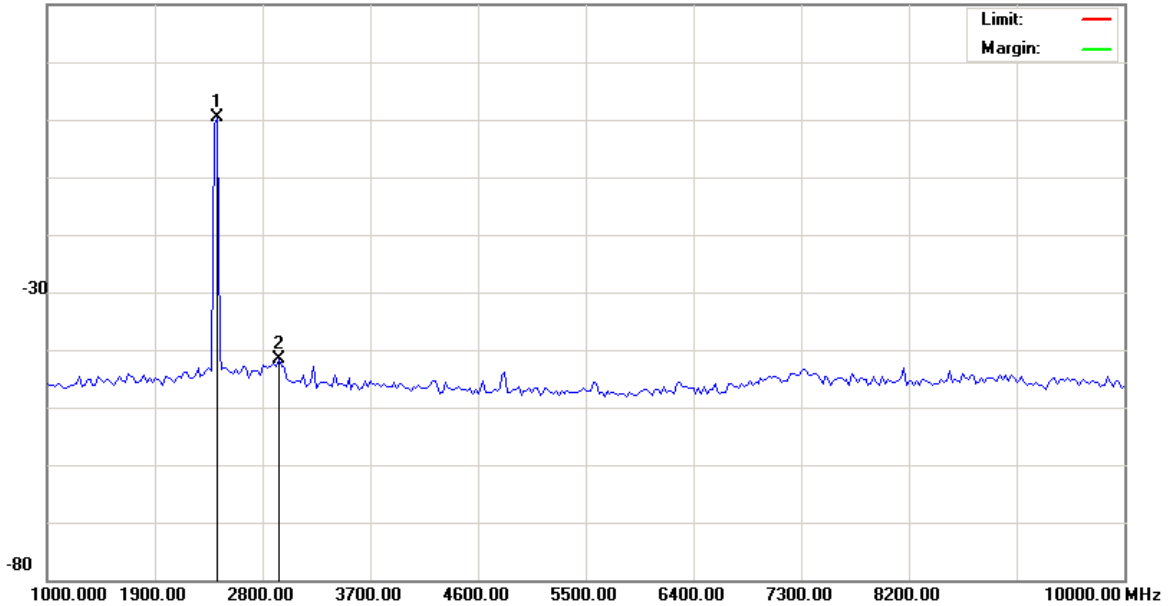
File :Raymond 103(11g)(20dB)

Data :#2

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11g)

Note: CH01

加Notch(3TNF-800)

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	*	2417.500	-0.50	1.00	0.50					peak
2		2935.000	-42.58	1.00	-41.58					peak

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

●Reference Only



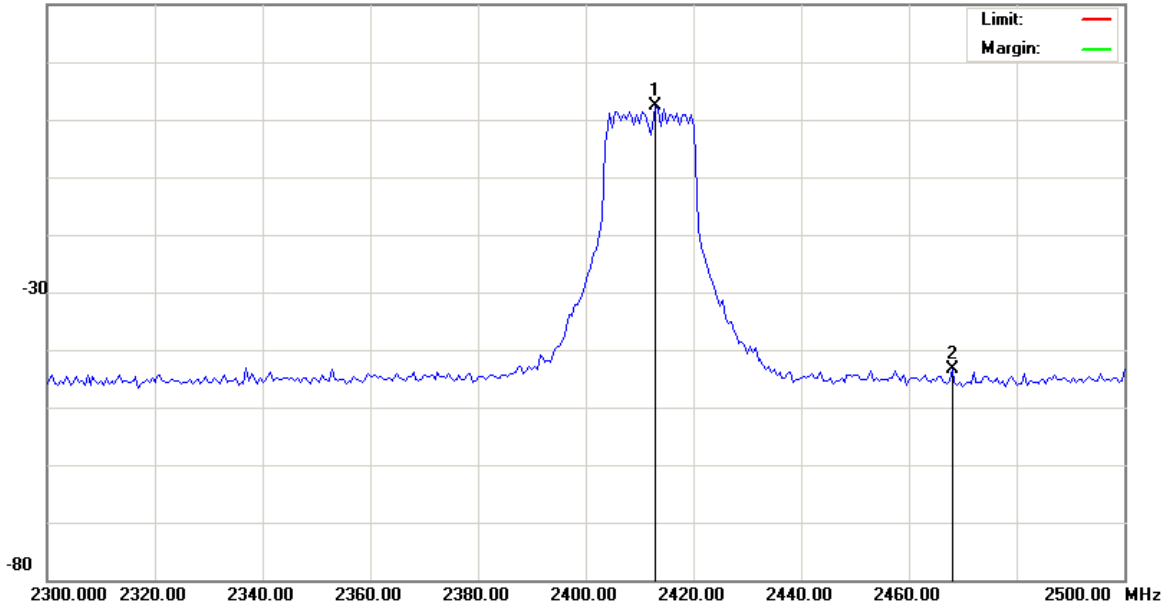
File :Raymond 103(11g)(20dB)

Data :#3

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11g)

Note: CH01

加Notch(3TNF-800)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	2413.000	1.27	1.00	2.27		peak			
2		2468.000	-44.41	1.00	-43.41		peak			

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

●Reference Only



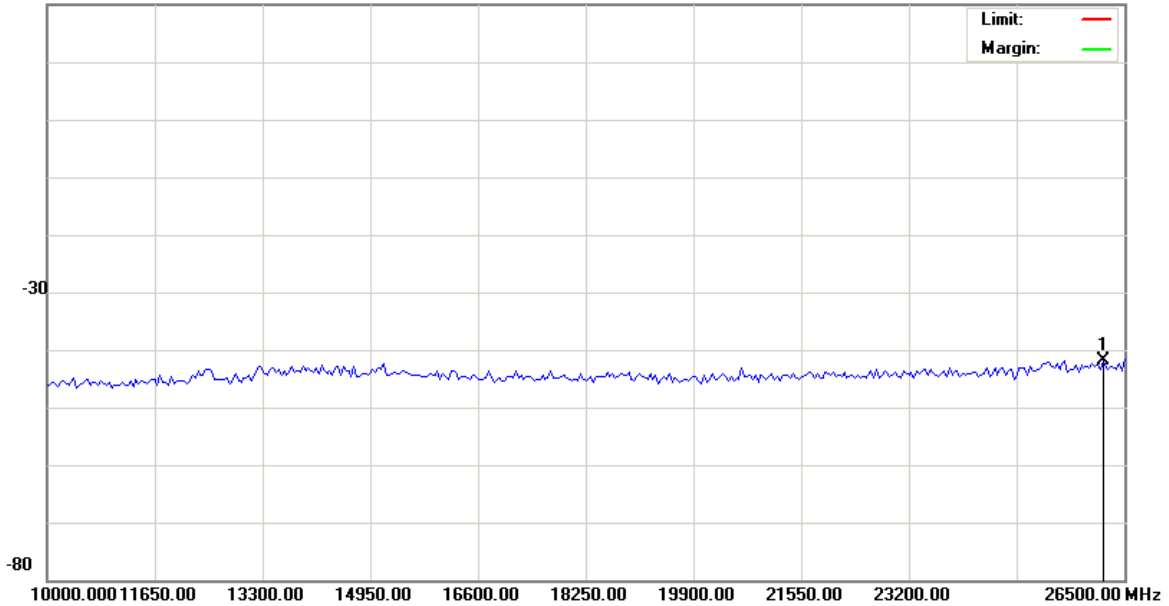
File :Raymond 103(11g)(20dB)

Data :#4

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11g)

Note: CH01

加Notch(3TNF-800)

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	*	26170.00	-42.89	1.00	-41.89					peak

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

●Reference Only



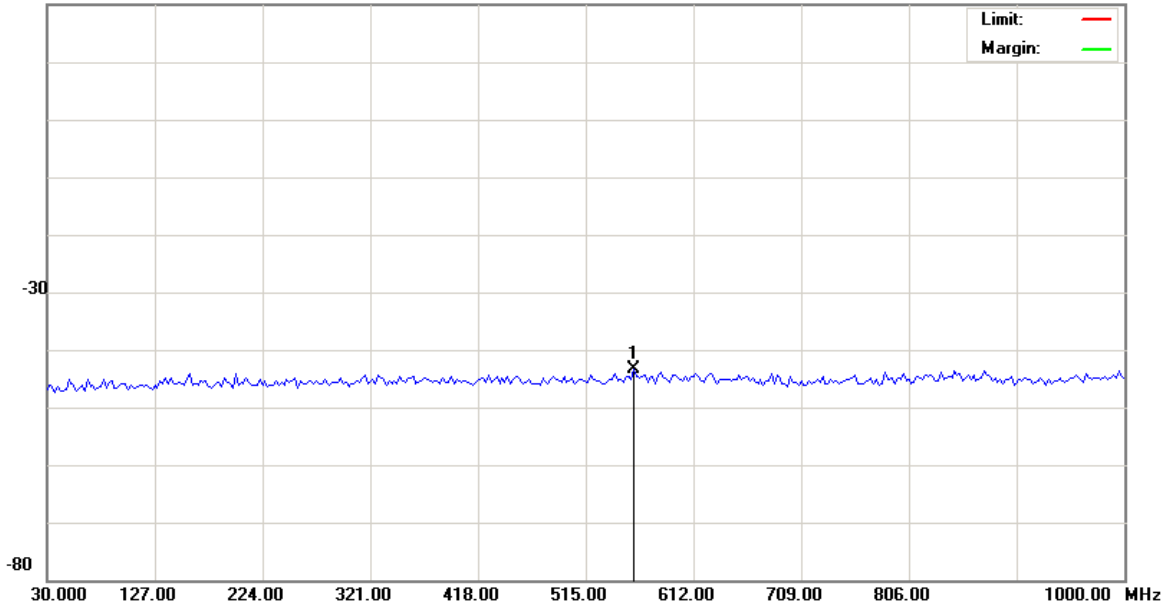
File :Raymond 103(11g)(20dB)

Data :#5

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11g)

Note: CH06

加Notch(3TNF-800)

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	*	558.6500	-44.43	1.00	-43.43					peak

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

●Reference Only



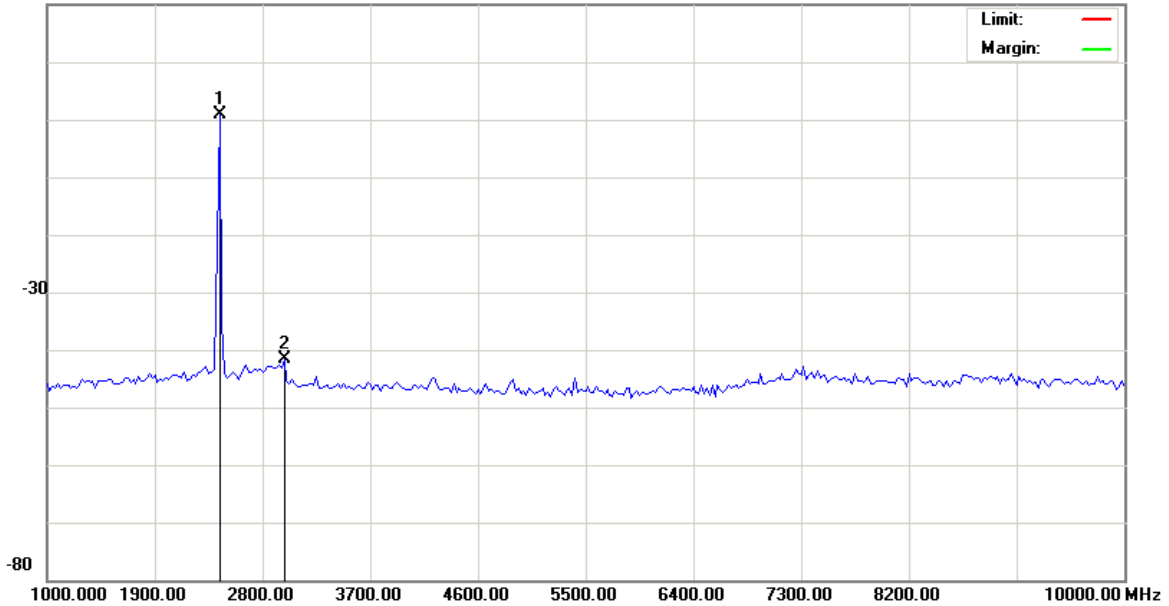
File :Raymond 103(11g)(20dB)

Data :#6

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11g)

Note: CH06

加Notch(3TNF-800)

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	-0.22	1.00	0.78					peak
2		2980.000	-42.68	1.00	-41.68					peak

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

●Reference Only



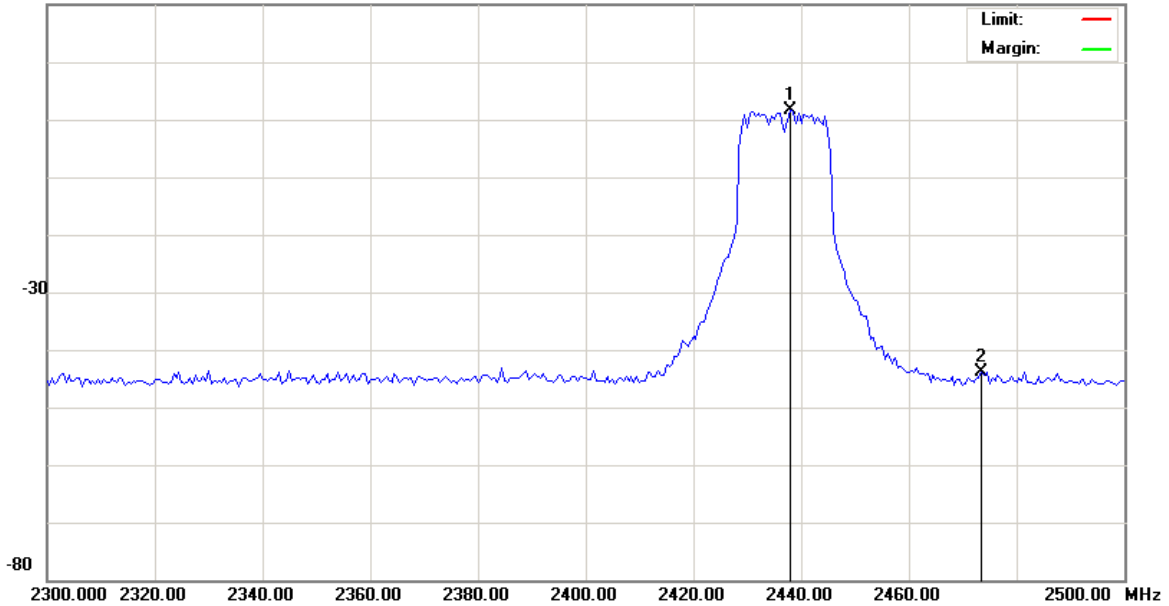
File :Raymond 103(11g)(20dB)

Data :#7

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11g)

Note: CH06

加Notch(3TNF-800)

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	*	2438.000	0.73	1.00	1.73					peak
2		2473.500	-44.79	1.00	-43.79					peak

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

●Reference Only



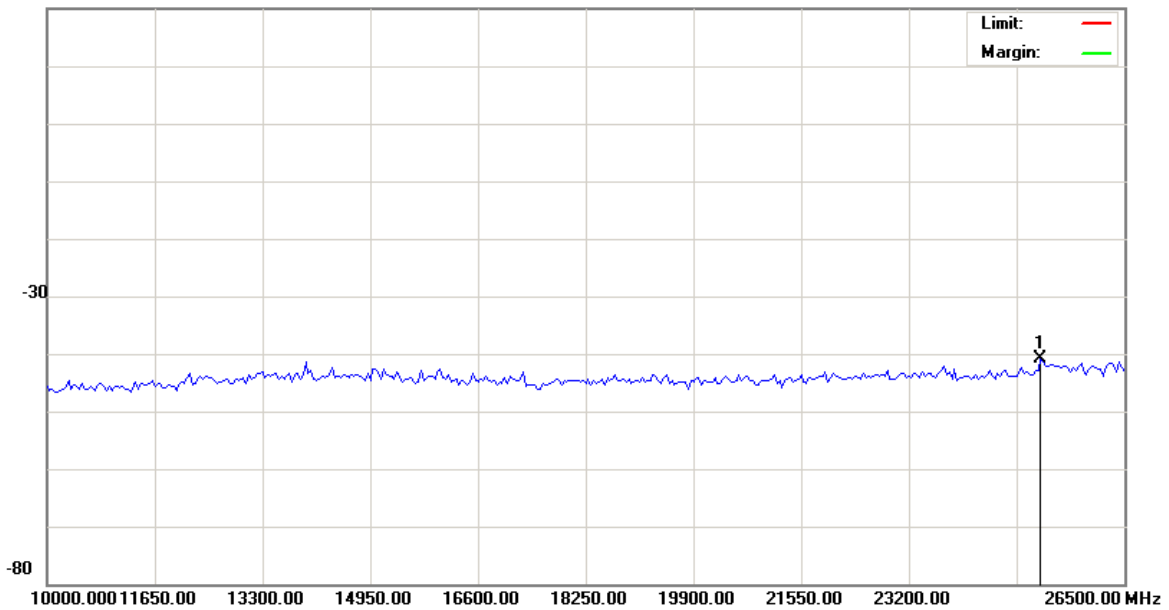
File :Raymond 103(11g)(20dB)

Data :#8

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11g)

Note: CH06

加Notch(3TNF-800)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	25221.25	-41.90	1.00	-40.90					peak

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

●Reference Only



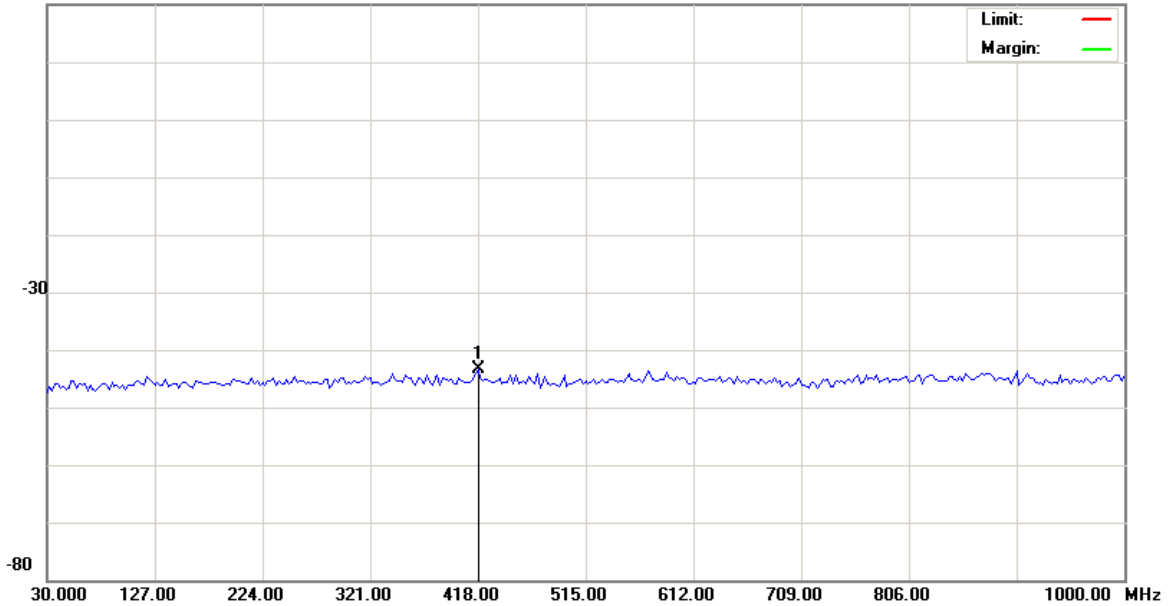
File :Raymond 103(11g)(20dB)

Data :#9

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11g)

Note: CH11

加Notch(3TNF-800)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	418.0000	-44.39	1.00	-43.39					peak

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

●Reference Only



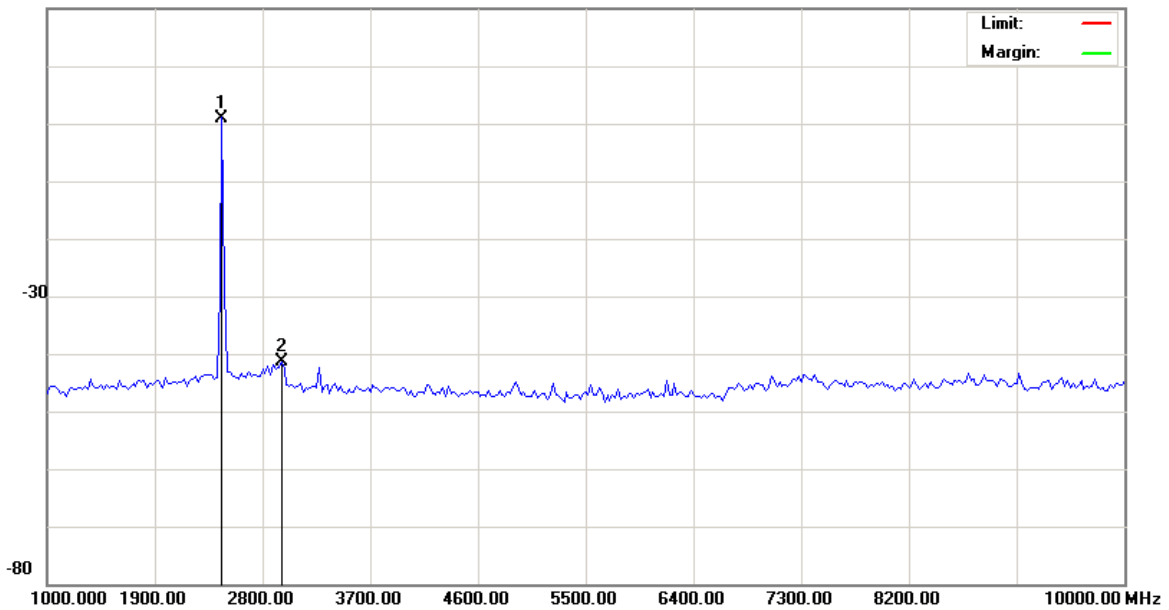
File :Raymond 103(11g)(20dB)

Data :#10

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11g)

Note: CH11

加Notch(3TNF-800)

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	*	2462.500	0.00	1.00	1.00					peak
2		2957.500	-42.49	1.00	-41.49					peak

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

●Reference Only



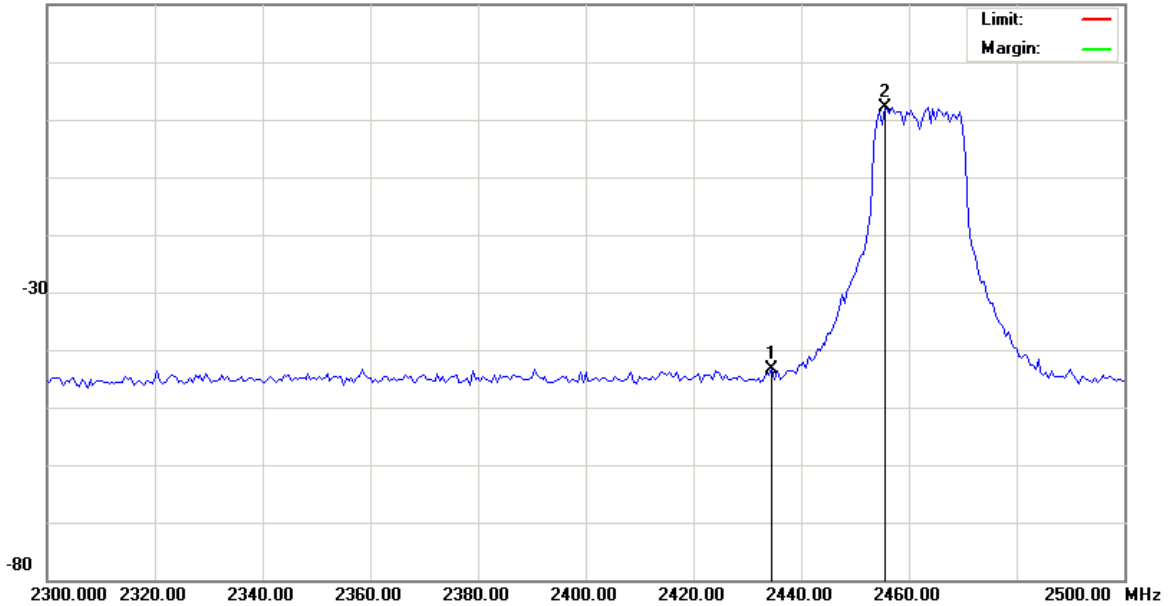
File :Raymond 103(11g)(20dB)

Data :#11

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11g)

Note: CH11

加Notch(3TNF-800)

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		2434.500	-44.43	1.00	-43.43					peak
2	*	2455.500	1.23	1.00	2.23					peak

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

●Reference Only



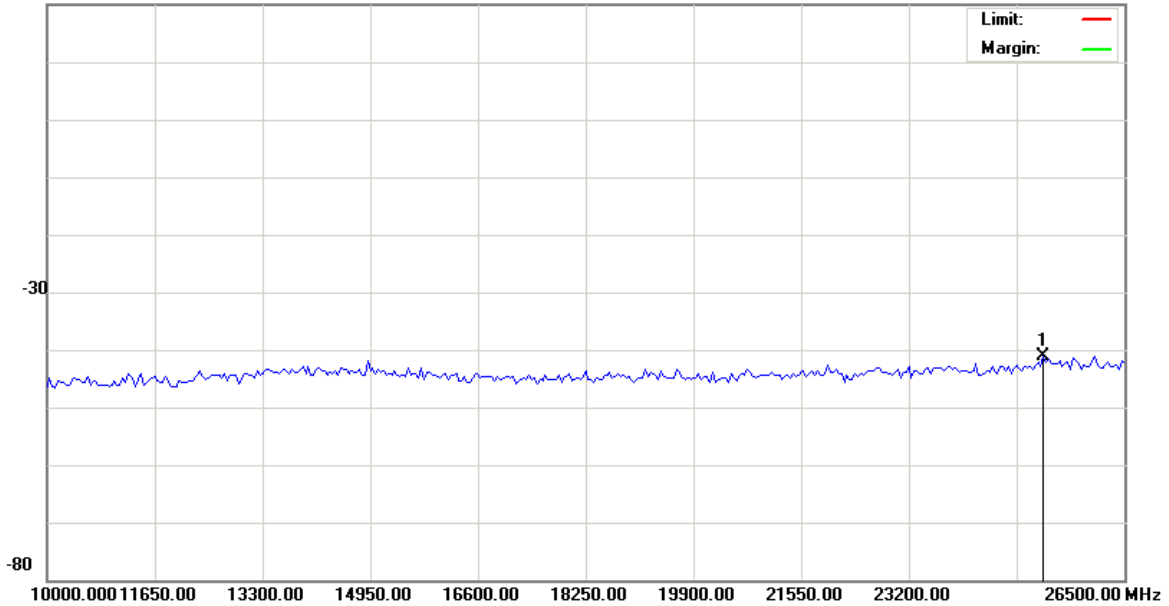
File :Raymond 103(11g)(20dB)

Data :#12

Date: 2008/4/24

Time:

20.0 dBm



Site site#1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WIFI(11g)

Note: CH11

加Notch(3TNF-800)

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	*	25262.50	-42.10	1.00	-41.10					peak

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

●Reference Only



8. Band Edges Requirements

8.1 Test Condition & Setup:

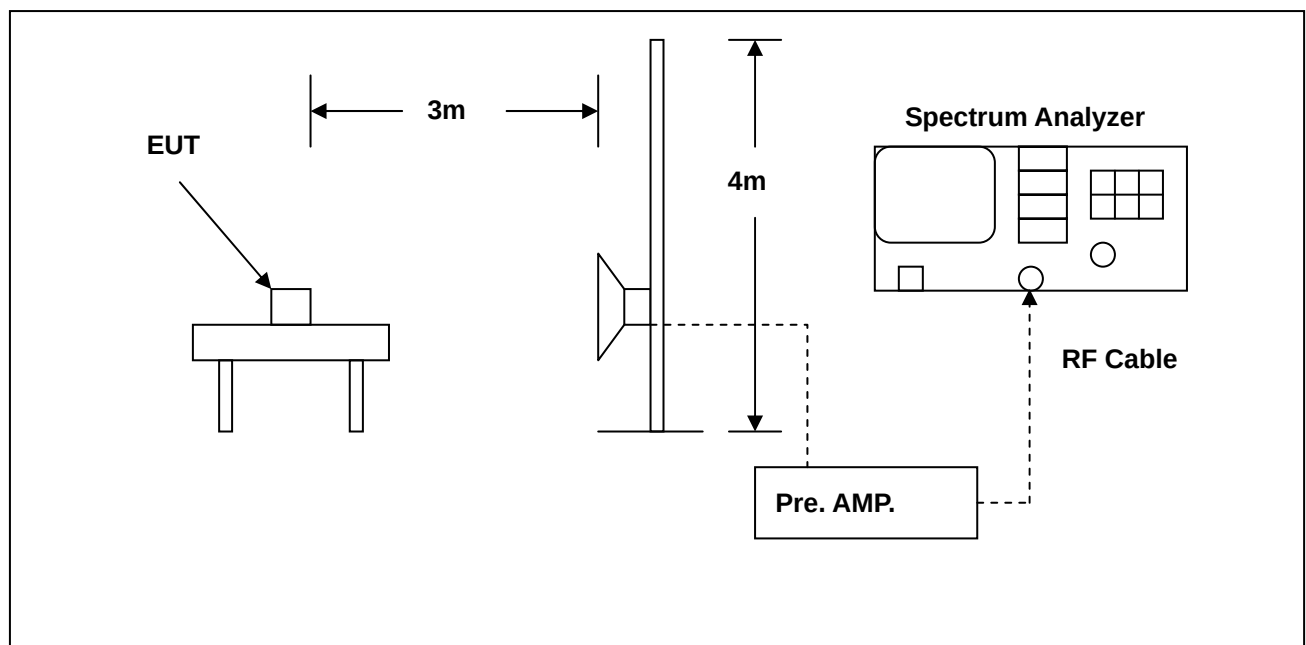
The EUT was setup to ANSI C63.4, 2003; tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

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.

8.2 Test Instruments Configuration:





8.3 Test Equipment List:

Describe	Manufacturer	Model	Serial Number	Calibration	
				Cal. Date	Due Date
Spectrum Analyzer	Agilent	E4408B	MY45107753	May. 28, 2007	May. 28, 2008
Pre Amplifier	Agilent	8449B	3008A02237	May. 28, 2007	May. 28, 2008
Horn Antenna	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	Jun. 26, 2007	Jun. 26, 2008



8.4 Test Result:

8.4.1 Test Result:

Applicant : Inventec Corporation
Model No : Velocity 103
EUT : PDA PHONE
Test Mode : 802.11b Low CH & High CH
Test Date : 04/28~29/2008

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.



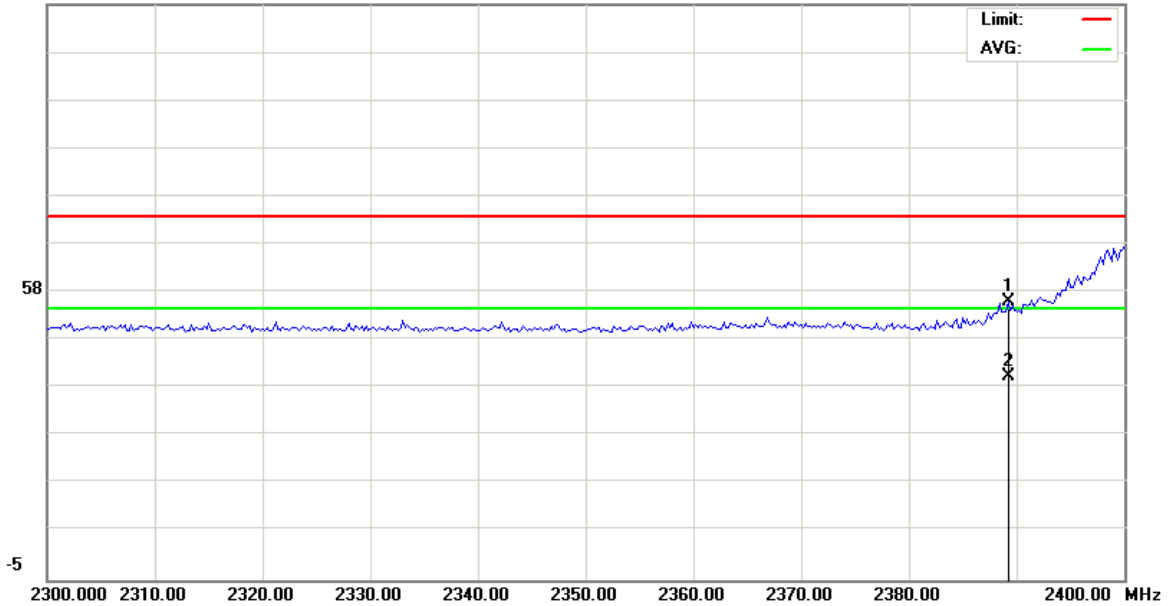
File :Raymond 103(Bandedge)

Data :#1

Date: 2008/04/28

Time:

120.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11b)

Note: CH2412

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		2389.200	55.30	0.16	55.46	74.00	-18.54	peak		
2	*	2389.200	38.97	0.16	39.13	54.00	-14.87	AVG		

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

●Reference Only



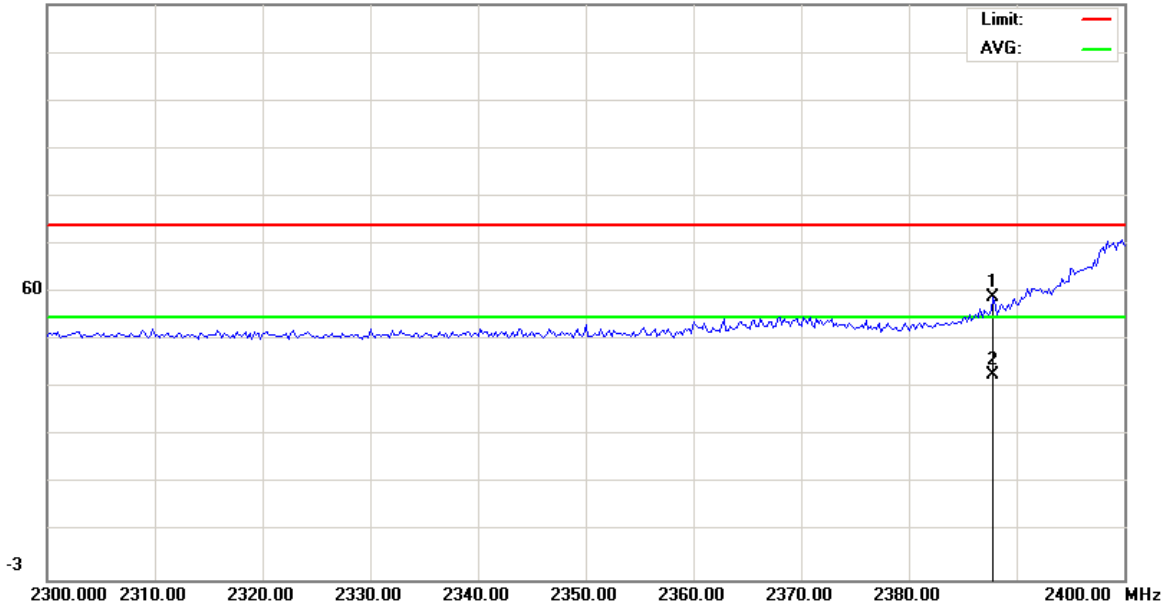
File :Raymond 103(Bandedge)

Data :#5

Date: 2008/4/29

Time:

122.0 dBuV/m



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11b)

Note: CH2412

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2387.800	58.15	0.16	58.31	74.00	-15.69	peak		
2	*	2387.800	41.45	0.16	41.61	54.00	-12.39	AVG		

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

●Reference Only



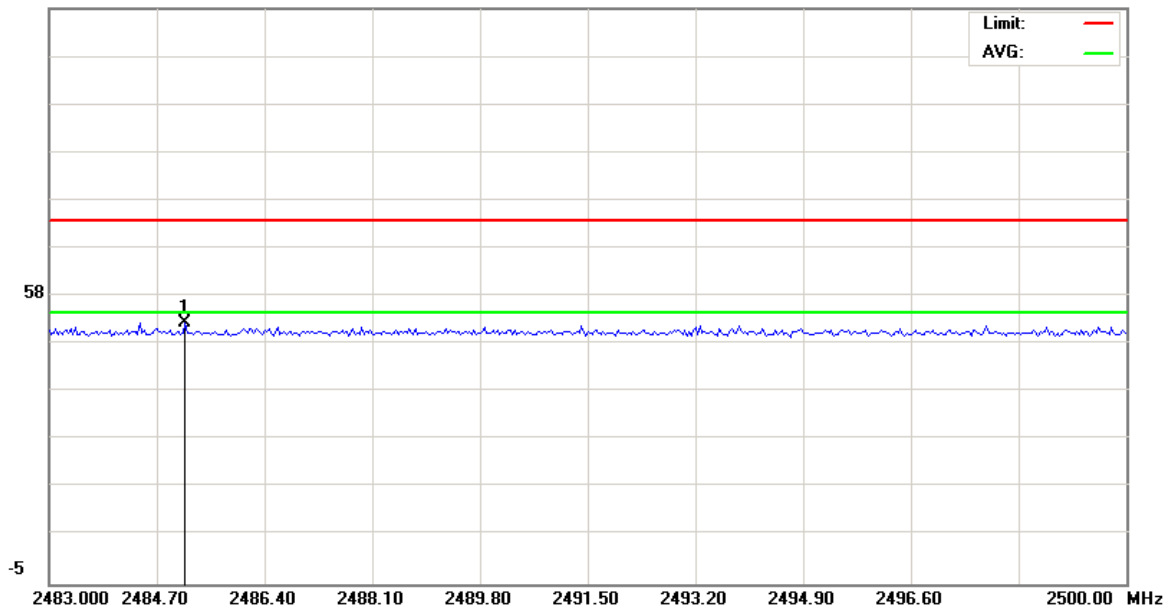
File :Raymond 103(Bandedge)

Data :#3

Date: 2008/04/28

Time:

120.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11b)

Note: CH2462

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	*	2485.142	51.60	0.24	51.84	74.00	-22.16	peak		

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

●Reference Only



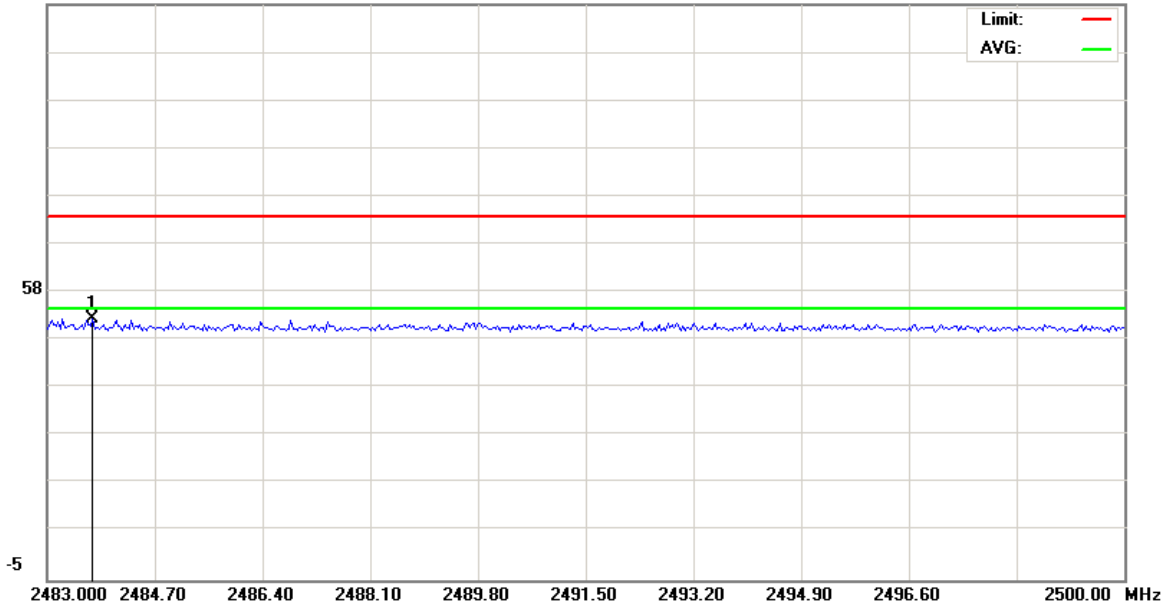
File :Raymond 103(Bandedge)

Data :#7

Date: 2008/4/29

Time:

120.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11b)

Note: CH2462

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	*	2483.714	51.44	0.25	51.69	74.00	-22.31	peak		

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

●Reference Only



8.4.2 Test Result:

Applicant : Inventec Corporation
Model No : Velocity 103
EUT : PDA PHONE
Test Mode : 802.11g Low CH & High CH
Test Date : 04/28/2008

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.



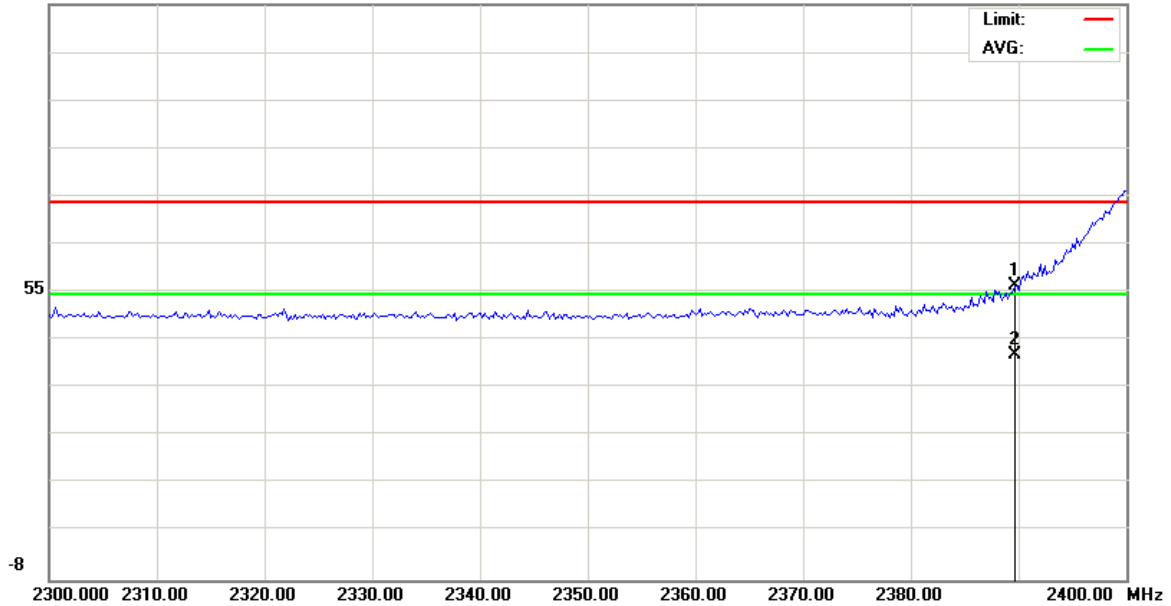
File :Raymond 103(Bandedge)

Data :#1

Date: 2008/04/28

Time:

117.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11g)

Note: CH2412

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		2389.600	55.77	0.16	55.93	74.00	-18.07	peak		
2	*	2389.600	40.88	0.16	41.04	54.00	-12.96	AVG		

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

●Reference Only



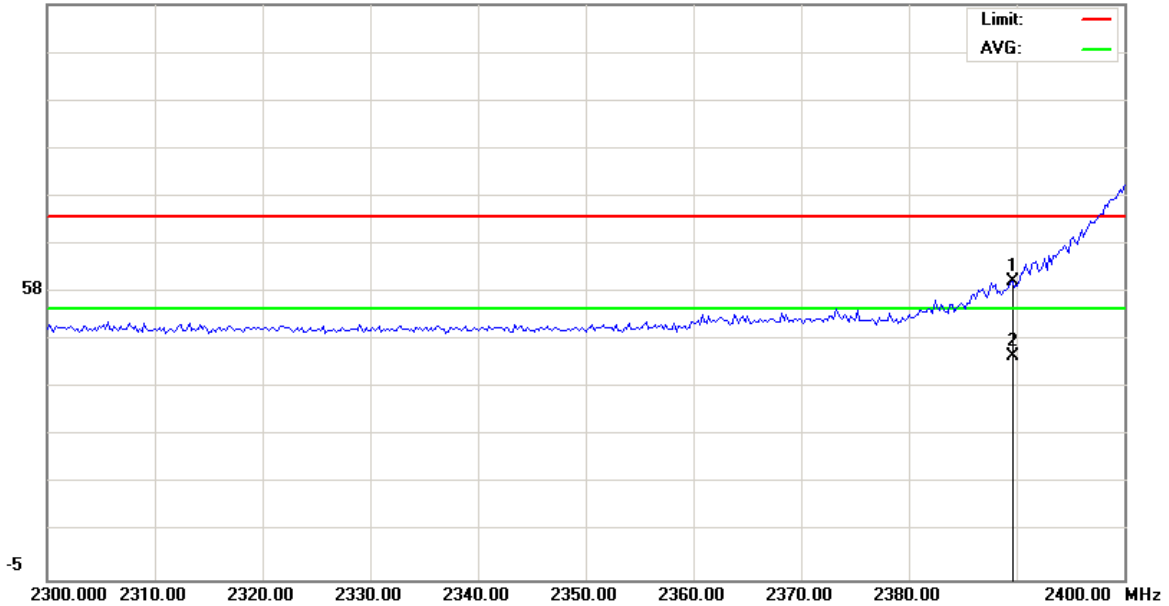
File :Raymond 103(Bandedge)

Data :#5

Date: 2008/04/28

Time:

120.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11g)

Note: CH2412

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		2389.600	59.59	0.16	59.75	74.00	-14.25	peak		
2	*	2389.600	43.55	0.16	43.71	54.00	-10.29	AVG		

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

●Reference Only



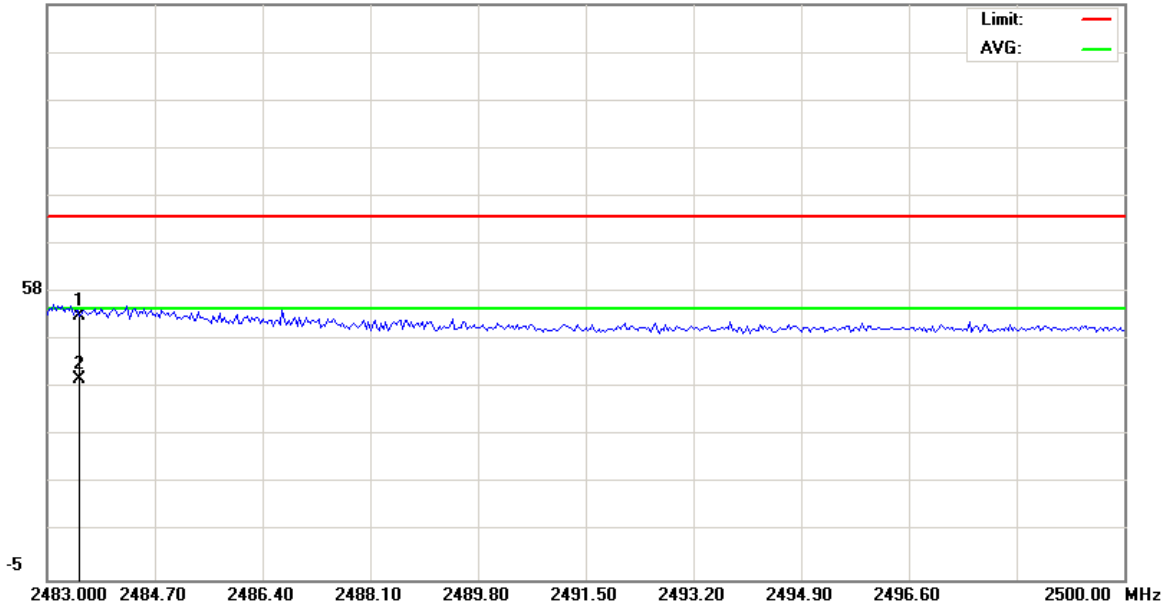
File :Raymond 103(Bandedge)

Data :#3

Date: 2008/04/28

Time:

120.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11g)

Note: CH2462

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		2483.510	52.13	0.25	52.38	74.00	-21.62	peak		
2	*	2483.510	38.43	0.25	38.68	54.00	-15.32	AVG		

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

●Reference Only



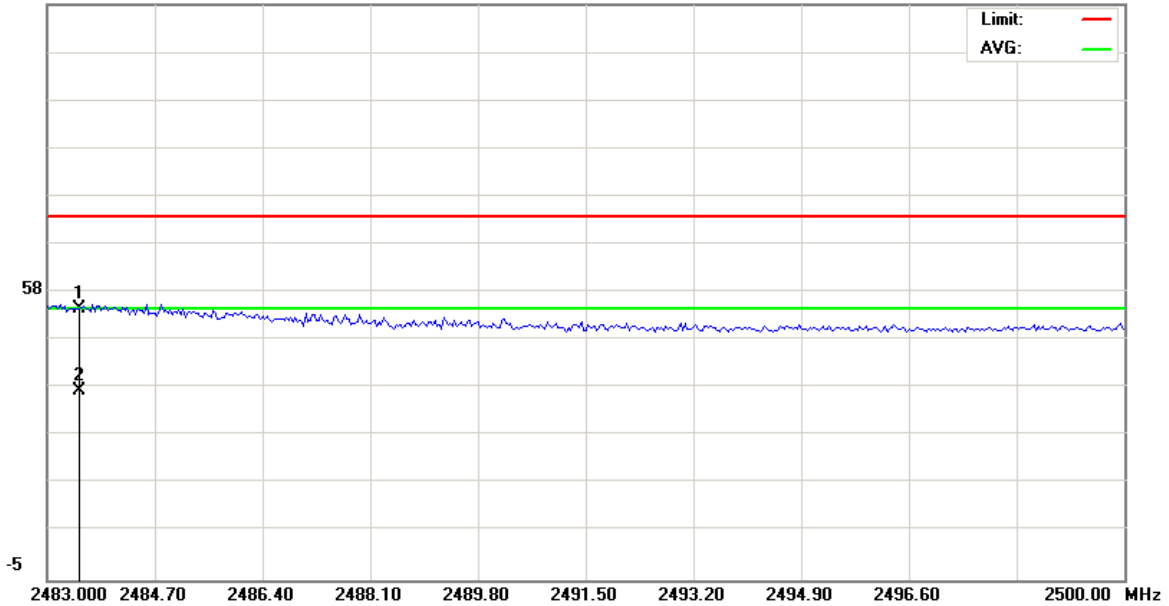
File :Raymond 103(Bandedge)

Data :#7

Date: 2008/04/28

Time:

120.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N:

Mode: WIFI(11g)

Note: CH2462

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		2483.510	53.68	0.25	53.93	74.00	-20.07	peak			
2	*	2483.510	35.87	0.25	36.12	54.00	-17.88	AVG			

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

●Reference Only



9. Antenna Requirements

9.1 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.

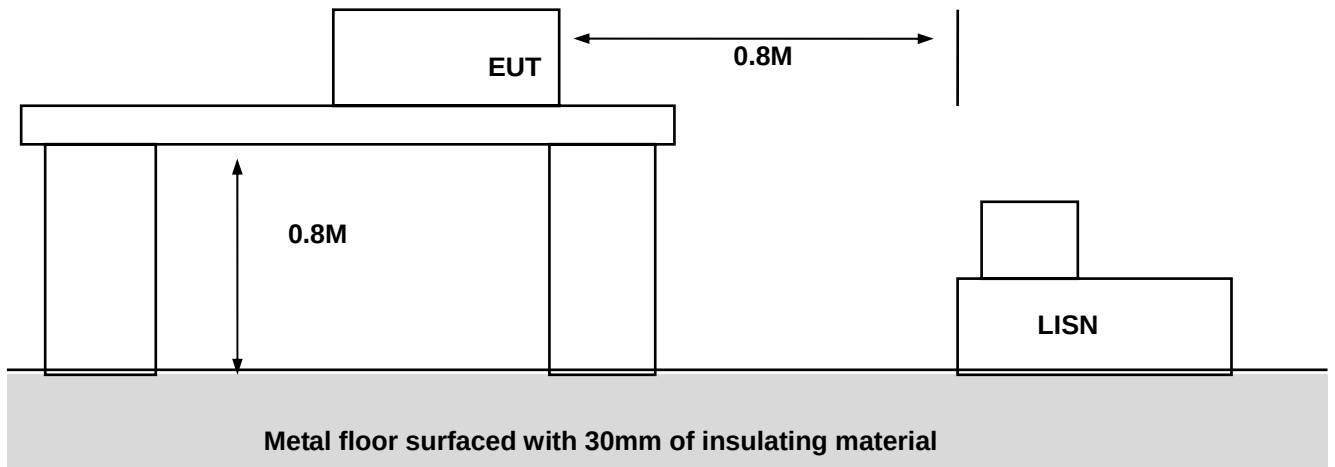
And According to 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

9.2 Antenna Connector Construction

The antenna used in this product is external Whip antenna. And the maximum Gain of this antenna is only **1.71** dB.

Appendix A - EUT Test SETUP

MEASUREMENT OF POWER LINE CONDUCTED RFI VOLTAGE



MEASUREMENT OF RADIATED EMISSION

