

### **RF - TEST REPORT**

Report Number	: 68.	850.10.054.	01	Date of Issue	: 23 September 2010
Model	: PC-	-A1001			
Product Type	: Tab	olet Persona	I Compute	r	
Applicant	: Wa	nlida Group	Co., Ltd.		
Address	: No.	618, Jiahe I	Road, Wan	ilida Industry Z	one,
	Xia	men, Fujian	, China. 36	1006	
Production Facility	: Wa	nlida Group	Co., Ltd.		
Address	: Wa	nlida Indust	ry Zone, N	anjing, Fujian,	China 363601
Test Result	: ■P	ositive	□ Negati	ve	
Total pages including Appendices	: 66				

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### 2 Details about the Test Laboratory

### **Details about the Test Laboratory**

Company name: Jiangsu TÜV Product Service Ltd. – Shenzhen Branch

6th Floor, H Hall,

Century Craftwork Culture Square,

No. 4001, Fuqiang Road, Futian District 518048,

Shenzhen, P.R.C.

Telephone: 86 755 8828 6998 Fax: 86 755 8828 5299

Company name: Audix Technology (shenzhen) Co.,Ltd

Block Shenzhen, Science & Industry Park,

Nantou, Shenzhen,

Guangdong,

China

Telephone: 86 755 2663 9496 Fax: 86 755 2663 2877

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# 3 Description of the Equipment Under Test

# **Description of the Equipment Under Test**

Product: Tablet Personal Computer

Model no.: PC-A1001

Brand Name: MALATA

Options and accessories: NIL

Rating: DC 19V, 40W

Test with adaptor:

Input: AC 100-240V, 50-60Hz, 1A

Output: DC 19V, 2.1A

**RF** Transmission

Frequency: 2412-2462MHz

Description of the EUT: NIL

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
LCD monitor	DELL	1907FPt	7735430660P0G WD-04
Keyboard	DELL	SK-8115	E145614
Mouse	DELL	OCJ339	G0203WAZ
Headphone	ODDO		
SD card	Kingston	SD4/4GBFE	
VGA cable	DELL	Unshield	140cm
AC Power cable	DELL	Unshield	180cm



# 4 Summary of Test Standards

Test Standards			
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES		
,	Subpart C - Intentional Radiators		

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# **5 Summary of Test Results**

Technical Requirements						
FCC Part 15 Subpart C						
Test Condition	Pages	Т	est Result	t		
		Pass	Fail	N/A		
15.207 Conducted Emission AC Power Port	8					
15.247 (b) (1) Conducted peak output power	12					
15.247(d) Band edge compliance of RF emissions	14					
15.247(d) Spurious RF conducted emissions	32					
15.247(d) 15.209 Spurious radiated emissions	40					
15.247(a)(2) 6dB bandwidth	46					
15.247(e) Power spectral density	56					



### **6 General Remarks**

#### Remarks

This submittal(s) (test report) is intended for class 2 permissive change from FCC ID: VQF-RT3090-1T1R comply with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C Rules.

### **SUMMARY:**

All tests according to the regulations cited on page 5 were	All tests	according	to the	regulations	cited o	on page	5 were
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- - Performed
- ☐ Not Performed

The Equipment Under Test

- - Fulfills the general approval requirements.
- ☐ **Does not** fulfill the general approval requirements.

Sample Received Date: 2 September 2010

Testing Start Date: 4 September 2010

Testing End Date: 11 September 2010

- Jiangsu TÜV Product Service Ltd. - Shenzhen Branch -

Reviewed by:

Prepared by:

Paul Yu Assistant EMC Manager Ken Li Senior EMC Project Engineer

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### 7 Technical Requirement

### 7.1 Conducted Emission

#### **Test Method**

- 1 The EUT was placed on a table, which is 0.8m above ground plane
- 2 The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
- 3 Maximum procedure was performed to ensure EUT compliance
- 4 A EMI test receiver (R&S Test Receiver ESCS30) is used to test the emissions from both sides of AC line

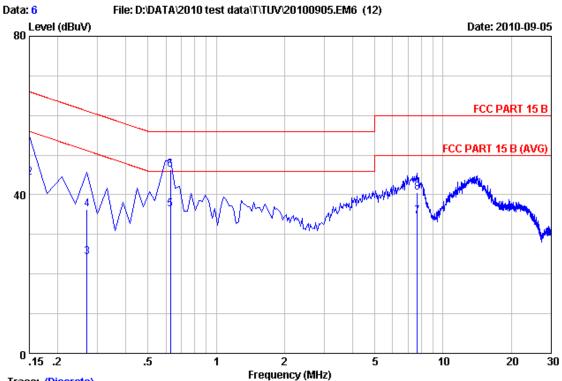
### Limit

Frequency	QP Limit	AV Limit
MHz	dΒμV	dΒμV
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Decreasing linearly with logarithm of the frequency



### **Conducted Emission**



Trace: (Discrete)

Site no :1#conduction Data No :6

:\*\* 2010 ESH2-Z5 LINE Dis./Ant.

Limit :FCC PART 15 B

Env./Ins. :29.5\*C/55% Engineer : Paul Tian

EUT :PC-A1001 Power Rating :AC 120V/60Hz

Test Mode :WI-FI Memo

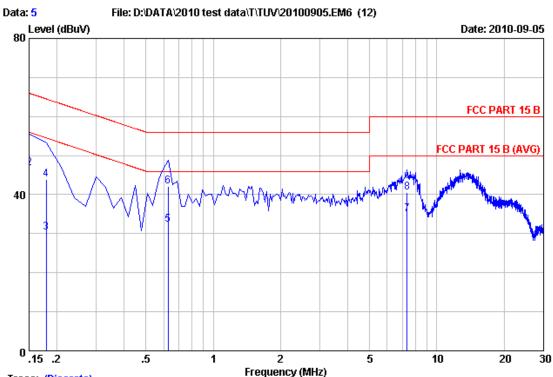
No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emissio Level (dBuV)	n Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.23	9.88	26.20	36.31	56.00	19.69	Average
2	0.15000	0.23	9.88	34.20	44.31	66.00	21.69	QP
3	0.26900	0.22	9.88	14.20	24.30	51.15	26.85	Average
4	0.26900	0.22	9.88	26.30	36.40	61.15	24.75	QP
5	0.62700	0.25	9.88	26.20	36.33	46.00	9.67	Average
6	0.62700	0.25	9.88	36.20	46.33	56.00	9.67	QP
7	7.702	0.33	9.98	24.19	34.50	50.00	15.50	Average
8	7.702	0.33	9.98	30.29	40.60	60.00	19.40	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit) +Reading.

<sup>2.</sup>If the average limit is met when useing a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



### **Conducted Emission**



Trace: (Discrete)

Site no :1#conduction Data No :5

Dis./Ant. :\*\* 2010 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 B

Env./Ins. :29.5\*C/55% Engineer :Paul Tian

EUT :PC-A1001 Power Rating :AC 120V/60Hz

:

Test Mode :WI-FI
Memo :

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emissio Level (dBuV)	n Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.21	9.88	28.60	38.69	56.00	17.31	Average
2	0.15000	0.21	9.88	36.60	46.69	66.00	19.31	QP
3	0.17900	0.21	9.88	20.30	30.39	54.53	24.14	Average
4	0.17900	0.21	9.88	33.70	43.79	64.53	20.74	QP
5	0.62700	0.23	9.88	22.31	32.42	46.00	13.58	Average
6	0.62700	0.23	9.88	31.91	42.02	56.00	13.98	QP
7	7.373	0.31	9.97	24.60	34.88	50.00	15.12	Average
8	7.373	0.31	9.97	30.30	40.58	60.00	19.42	QP

Remarks: 1. Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit) +Reading.

2.If the average limit is met when useing a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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# **Test Equipment List**

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Dec.18, 10
L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Mar.30, 11
L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.08, 11
Terminator	Hubersuhner	50Ω	No. 1	May.08, 11
Terminator	Hubersuhner	50Ω	No. 2	May.08, 11
RF Cable	Fujikura	3D-2W	LISN Cable 1#	May.08, 11
Coaxial Switch	Anritsu	MP59B	M55367	May.08, 11
Passive Probe	Rohde & Schwarz	ESH2-Z3	299.7810.52	May.08, 11
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 11



### 7.2 Conducted peak output power

#### **Test Method**

The transmitter output is connected to the Spectrum analyzer. The Spectrum analyzer is set to the peak power detection.

## Limits for conducted peak output power measurements

Frequency Range	Limit	Limit
MHz	W	dBm
2400-2483	≤1	≤30

### Conducted peak output power

IEEE 802.11b modulation (1Mbps) Test Result

Frequency MHz	Conducted Peak Output Power dBm	Result
CH1 2412MF	lz 20.06	Pass
CH6 2437MF	Hz 19.84	Pass
CH11 2462M	Hz 18.65	Pass

IEEE 802.11g modulation (6Mbps) Test Result

Frequency MHz	Conducted Peak Output Power dBm	Result	
CH1 2412MHz	19.28	Pass	
CH6 2437MHz	18.80	Pass	
CH11 2462MHz	18.50	Pass	

IEEE 802.11n HT20 modulation (6.5Mbps) Test Result

	Frequency MHz	•			
Ī	CH1 2412MHz	19.75	Pass		
	CH6 2437MHz	19.36	Pass		
	CH11 2462MHz	18.55	Pass		

IEEE 802.11n HT40 modulation (13.5Mbps) Test Result

Frequency MHz	Conducted Peak Output Power dBm	Result
CH3 2422MHz	18.20	Pass
CH6 2437MHz	17.90	Pass
CH9 2452MHz	17.20	Pass

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# **Test Equipment**

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL DUE DATE
Spectrum Analyzer	Agilent	E4446A	US44300459	May 08 2011



# 7.3 Band edge compliance of RF emissions

#### **Test Method**

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.4 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW and VBW to 1MHz to measure the peak field strength and set RBW to 1MHz and VBW to 10Hz to measure the average radiated field strength.

The conducted RF band edge was measured by using a spectrum analyzer. Set span wide enough to capture the highest in-band emission and the emission at the band edge. Set RBW and VBW to 100kHz, to measure the conducted peak band edge.

#### Limits

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

Freque	ncy	Limit Average	Limit Peak
MH:	Z	dBuV/m	dBuV/m
Below 2390 Ab	ove 2483.5	54	74

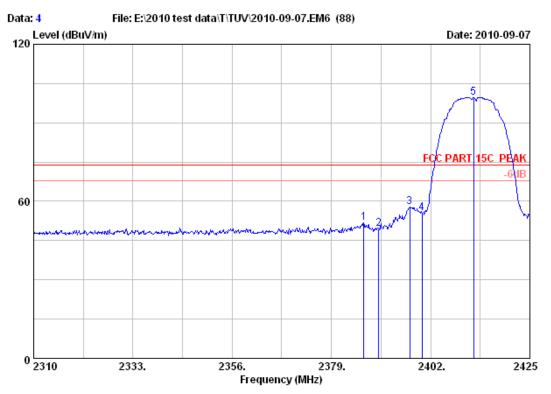
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# Band edge compliance of RF emissions

### IEEE 802.11b modulation (1 Mbps) Test Result

### Lower Edge PK plot:



Site no. : 3m Chamber Data no. : 4

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Paul Tian

EUT : PC-A1001
Power : AC 120V/60Hz

Test mode : 11b CH1 2412MHz Tx

M/N

		Ant.	Cable	Amp.		Emissio	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2386.475	29.44	7.39	36.62	51.65	51.86	74.00	22.14	Peak
2	2390.000	29.44	7.39	36.62	49.27	49.48	74.00	24.52	Peak
3	2397.170	29.44	7.39	36.62	57.57	57.78	74.00	16.22	Peak
4	2400.000	29.44	7.43	36.62	55.16	55.41	74.00	18.59	Peak
5	2412.005	29.45	7.43	36.62	99.46	99.72	74.00 -	-25.72	Peak

#### Remarks:

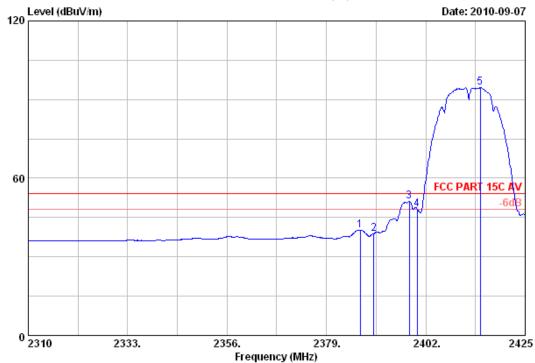
- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.

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### Lower Edge AV plot:





Site no. : 3m Chamber Data no. : 3

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Paul Tian

EUT : PC-A1001 Power : AC 120V/60Hz

Test mode : 11b CH1 2412MHz Tx

M/N :

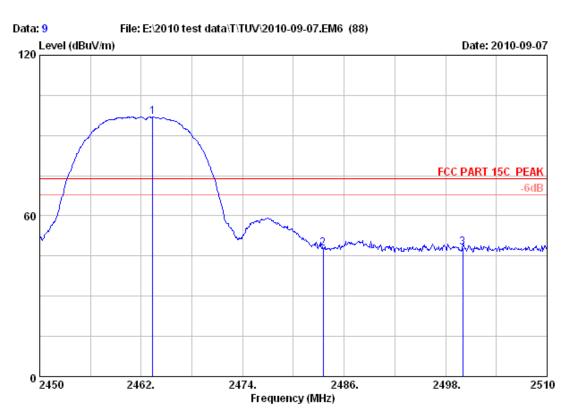
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emissio: Level (dBuV/m)	n Limits (dBuV/m)	Margin (dB)	Remark
1	2386.820	29.44	7.39	36.62	39.99	40.20	54.00	13.80	Average
2	2390.000	29.44	7.39	36.62	38.69	38.90	54.00	15.10	Average
3	2398.205	29.44	7.39	36.62	51.06	51.27	54.00	2.73	Average
4	2400.000	29.44	7.43	36.62	47.89	48.14	54.00	5.86	Average
5	2414.650	29.45	7.43	36.62	94.25	94.51	54.00 -	-40.51	Average

#### Remarks:

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



# Upper Edge PK plot:



Site no. : 3m Chamber Data no. : 9

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Paul Tian

EUT : PC-A1001 Power : AC 120V/60Hz

Test mode : 11b CH11 2462MHz Tx

M/N :

		Ant.	Cable	Amp.		Emission	n		
	-	Factor (dB/m)			Reading (dBuV)			_	Remark
1	2463.380	29.48	7.54	36.61	96.61	97.02	74.00	-23.02	Peak
2	2483.500	29.49	7.58	36.60	47.24	47.71	74.00	26.29	Peak
3	2500.000	29.50	7.62	36.60	47.68	48.20	74.00	25.80	Peak

#### Remarks:

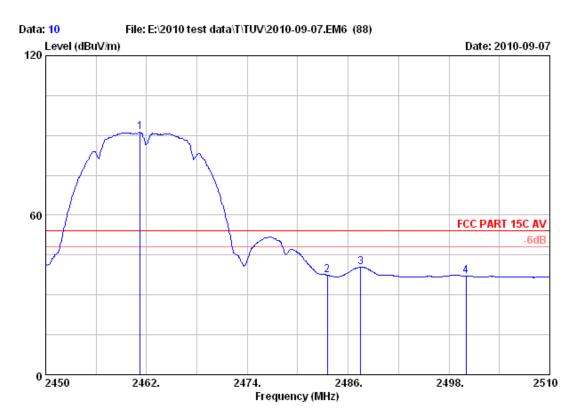
- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.

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# Upper Edge AV plot:





Site no. : 3m Chamber Data no. : 10

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Paul Tian

EUT : PC-A1001 Power : AC 120V/60Hz

Test mode : 11b CH11 2462MHz Tx

M/N :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	-	Margin (dB)	Remark
1	2461.220 2483.500		7.54 7.58	36.61 36.60	90.75 37.02	91.16 37.49	54.00 - 54.00	-37.16 16.51	Average Average
3 4	2487.500 2500.000		7.58 7.62	36.60 36.60	39.92 36.53	40.40 37.05	54.00 54.00	13.60 16.95	Average Average

#### Remarks

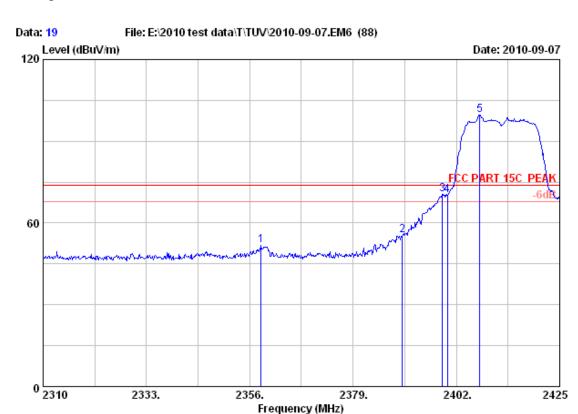
- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



# Band edge compliance of RF emissions

IEEE 802.11g modulation (6 Mbps) Test Result

# Lower Edge PK Plot:



Site no. : 3m Chamber Data no. : 19

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Paul Tian

EUT : PC-A1001 Power : AC 120V/60Hz

Test mode : 11g CH1 2412MHz Tx

M/N :

		Ant.	Cable	Amp.		Emissio	n		
	Freq.	Factor		Factor	Reading			Margin	Remark
	(MHz)	(dB/m) 	(dB) 	(dB) 	(dBuV) 	(dBuV/m)	(abuv/m)	, (ав) 	
1	2358.530	29.42	7.31	36.63	51.67	51.77	74.00	22.23	Peak
2	2390.000	29.44	7.39	36.62	55.19	55.40	74.00	18.60	Peak
3	2398.895	29.44	7.43	36.62	70.25	70.50	74.00	3.50	Peak
4	2400.000	29.44	7.43	36.62	70.07	70.32	74.00	3.68	Peak
5	2407.175	29.45	7.43	36.62	99.46	99.72	74.00	-25.72	Peak

#### Remarks:

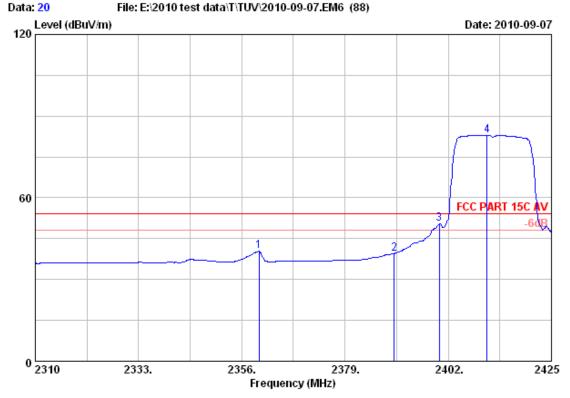
- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.

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### Lower Edge AV Plot:





Site no. : 3m Chamber Data no. : 20

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

: FCC PART 15C AV Limit

Env. / Ins. : 23\*C/54% Engineer : Paul Tian

EUT : PC-A1001 Power : AC 120V/60Hz

: 11g CH1 2412MHz Tx Test mode

M/N

	Freq.	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	n Limits (dBuV/m	Margin ) (dB)	Remark
1 2	2359.795 2390.000		7.35 7.39	36.63 36.62	40.14 39.37	40.28 39.58	54.00 54.00	13.72 14.42	Average Average
3 4	2400.000 2410.625		7.43 7.43	36.62 36.62	50.16 82.77	50.41 83.03	54.00 54.00	3.59 -29.03	Average Average

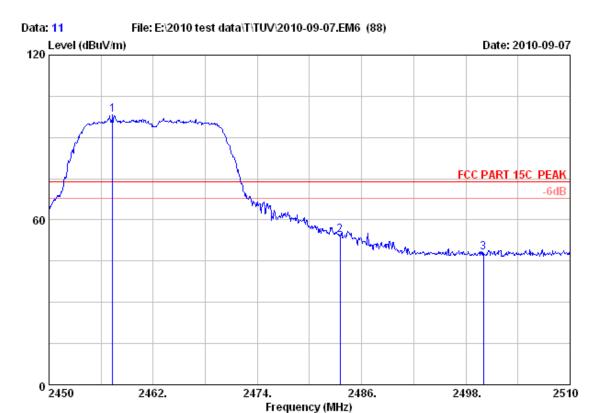
#### Remarks:

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



### Upper Edge PK Plot:





Site no. : 3m Chamber Data no. : 11

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Paul Tian

EUT : PC-A1001 Power : AC 120V/60Hz

Test mode : 11g CH11 2462MHz Tx

M/N :

		Cable	Amp.		Emissio:	n				
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)		
1	2457.320	29.48	7.50	36.61	97.86	98.23	74.00	-24.23	Peak	
2	2483.500	29.49	7.58	36.60	53.94	54.41	74.00	19.59	Peak	
3	2500.000	29.50	7.62	36.60	47.49	48.01	74.00	25.99	Peak	

### Remarks:

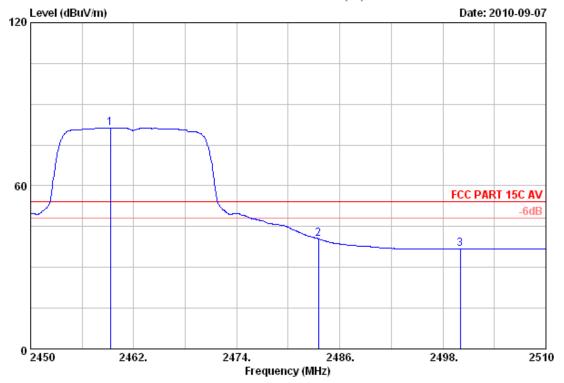
- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



### Upper Edge AV Plot:

Product Service





Site no. : 3m Chamber

Dis. / Ant. : 3m 3115(0911)

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% EUT : PC-A1001

Power : AC 120V/60Hz

Test mode : 11g CH11 2462MHz Tx

M/N :

		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2459.300	29.48	7.54	36.61	80.86	81.27	54.00	-27.27	Average
2	2483.500	29.49	7.58	36.60	40.02	40.49	54.00	13.51	Average
3	2500.000	29.50	7.62	36.60	36.24	36.76	54.00	17.24	Average

Data no. : 12

Ant. pol. : HORIZONTAL

Engineer : Paul Tian

#### Remarks

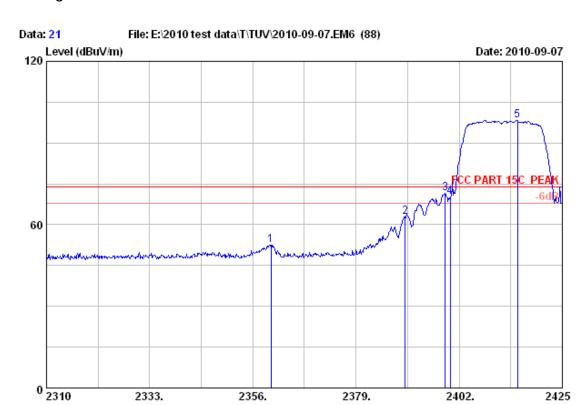
- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



# Band edge compliance of RF emissions

IEEE 802.11n HT20 modulation (6.5Mbps) Test Result

### Lower Edge PK Plot:



Site no. : 3m Chamber Data no. : 21

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Frequency (MHz)

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Paul Tian

EUT : PC-A1001 Power : AC 120V/60Hz

Test mode : 11nHT20 CH1 2412MHz Tx

M/N :

		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2360.025	29.42	7.35	36.63	52.43	52.57	74.00	21.43	Peak
2	2390.000	29.44	7.39	36.62	62.52	62.73	74.00	11.27	Peak
3	2398.895	29.44	7.43	36.62	71.20	71.45	74.00	2.55	Peak
4	2400.000	29.44	7.43	36.62	70.06	70.31	74.00	3.69	Peak
5	2414.995	29.45	7.43	36.62	98.14	98.40	74.00	-24.40	Peak

#### Remarks:

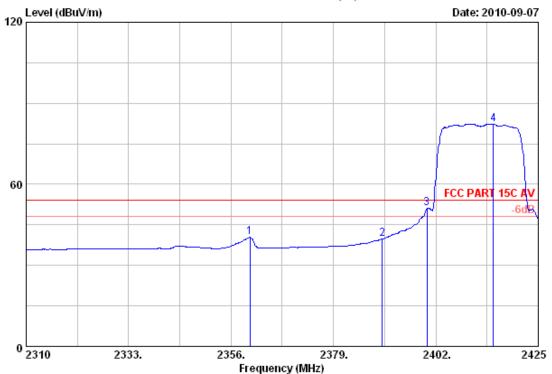
- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.

Report Number: 68.850.10.054.01



## Lower Edge AV Plot:

Data: 22 File: E:\2010 test data\T\TUV\2010-09-07.EM6 (88)



Site no. : 3m Chamber

Dis. / Ant. : 3m 3115(0911) Limit

: FCC PART 15C AV

Env. / Ins. : 23\*C/54%

: PC-A1001 EUT

: AC 120V/60Hz Power

Test mode : 11nHT20 CH1 2412MHz Tx

M/N

Fre (MH	•	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emissio Level (dBuV/m)	n Limits (dBuV/m	_	Remark
1 2360. 2 2390. 3 2400. 4 2414.	000 29.44 000 29.44	7.39 7.43	36.63 36.62 36.62 36.62	40.16 39.53 50.77 81.95	40.30 39.74 51.02 82.21	54.00 54.00 54.00 54.00	13.70 14.26 2.98 -28.21	Average Average Average Average

#### Remarks:

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.

Data no. : 22

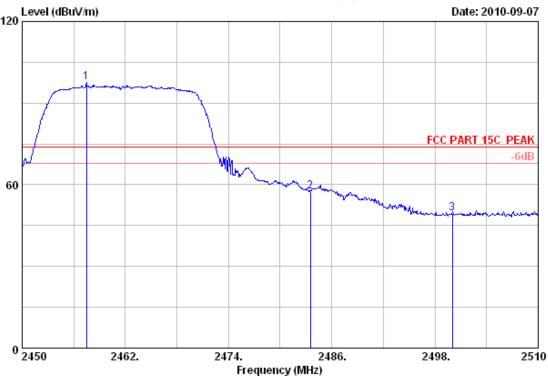
Ant. pol. : HORIZONTAL

Engineer : Paul Tian



# Upper Edge PK Plot:





Site no. : 3m Chamber Data no. : 29

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Paul Tian

EUT : PC-A1001 Power : AC 120V/60Hz

Test mode : 11nHT20 CH11 2462MHz Tx

M/N :

		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2457.500	29.48	7.50	36.61	97.23	97.60	74.00	-23.60	Peak
2	2483.500	29.49	7.58	36.60	57.14	57.61	74.00	16.39	Peak
3	2500.000	29.50	7.62	36.60	49.09	49.61	74.00	24.39	Peak

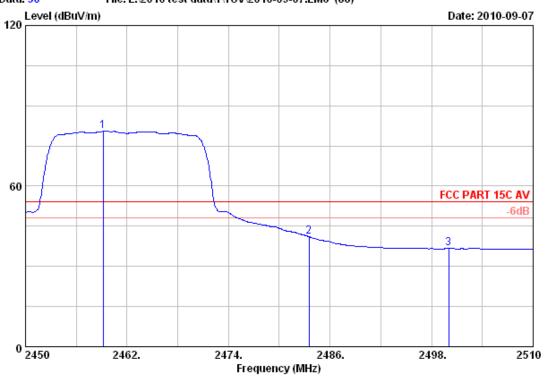
#### Remarks

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



# Upper Edge AV Plot:





Site no. : 3m Chamber Data no. : 30

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Paul Tian

EUT : PC-A1001
Power : AC 120V/60Hz

Test mode : 11nHT20 CH11 2462MHz Tx

M/N :

		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2459.180	29.48	7.54	36.61	80.02	80.43	54.00	-26.43	Average
2	2483.500	29.49	7.58	36.60	40.62	41.09	54.00	12.91	Average
3	2500.000	29.50	7.62	36.60	36.10	36.62	54.00	17.38	Average

#### Remarks:

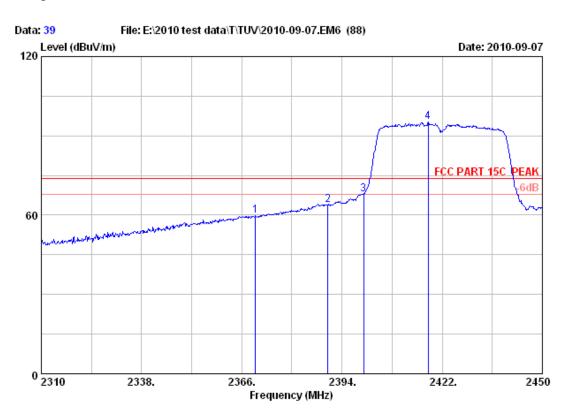
- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



# Band edge compliance of RF emissions

IEEE 802.11n HT40 modulation (13.5Mbps) Test Result

# Lower Edge PK Plot:



Site no. : 3m Chamber Data no. : 39

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \* C/54% Engineer : Paul Tian

EUT : PC-A1001 Power : AC 120V/60Hz

Test mode : 11nHT40 CH3 2422MHz Tx

M/N :

		Ant.	Cable	Amp.		Emissio	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2369.780	29.43	7.35	36.62	59.65	59.81	74.00	14.19	Peak
2	2390.000	29.44	7.39	36.62	63.70	63.91	74.00	10.09	Peak
3	2400.000	29.44	7.43	36.62	67.63	67.88	74.00	6.12	Peak
4	2418.080	29.45	7.43	36.61	95.01	95.28	74.00 -	-21.28	Peak

#### Remarks:

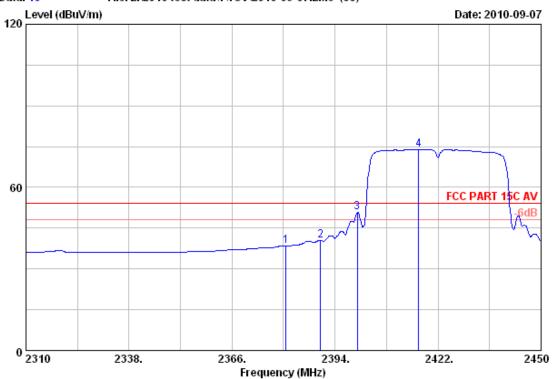
- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.

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# Lower Edge AV Plot:





Site no. : 3m Chamber Data no. : 40

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Paul Tian

EUT : PC-A1001 Power : AC 120V/60Hz

Test mode : 11nHT40 CH3 2422MHz Tx

M/N :

		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	) (dB)	
1	2380.700	29.43	7.39	36.62	38.40	38.60	54.00	15.40	Average
2	2390.000	29.44	7.39	36.62	40.25	40.46	54.00	13.54	Average
3	2400.000	29.44	7.43	36.62	50.44	50.69	54.00	3.31	Average
4	2416.680	29.45	7.43	36.61	73.65	73.92	54.00	-19.92	Average

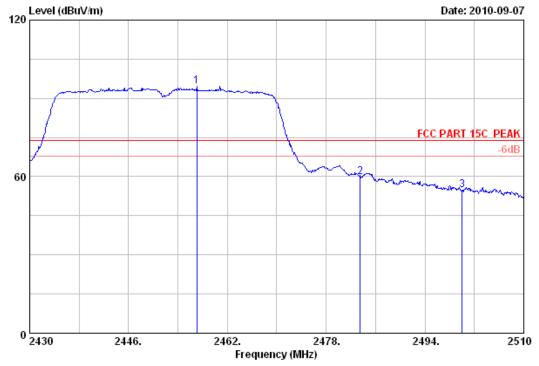
#### Remarks:

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



# Upper Edge PK Plot:





Site no. : 3m Chamber Data no. : 31

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \* C/54% Engineer : Paul Tian

EUT : PC-A1001 Power : AC 120V/60Hz

Test mode : 11nHT40 CH9 2452MHz Tx

M/N :

		Ant.	Cable	Amp.		Emissio:	n			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)		
1	2457.040	29.48	7.50	36.61	94.37	94.74	74.00	-20.74	Peak	
2	2483.500	29.49	7.58	36.60	59.50	59.97	74.00	14.03	Peak	
3	2500.000	29.50	7.62	36.60	54.46	54.98	74.00	19.02	Peak	

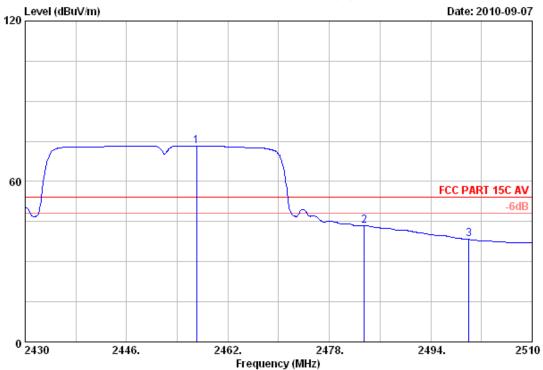
#### Remarks

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



# Upper Edge PK Plot:





Site no. : 3m Chamber Data no. : 32

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Paul Tian

EUT : PC-A1001 Power : AC 120V/60Hz

Test mode : 11nHT40 CH9 2452MHz Tx

M/N :

1 2457.040 29.48 7.50 36.61 72.96 73.33 54.00 -19.33 Average 2 2483.500 29.49 7.58 36.60 43.04 43.51 54.00 10.49 Average 3 2500.000 29.50 7.62 36.60 37.81 38.33 54.00 15.67 Average			Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emissio: Level (dBuV/m)	Limits	_	Remark	
	2	2	2483.500	29.49	7.58	36.60	43.04	43.51	54.00	10.49	Average	-

#### Remarks

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



# **Test Equipment List**

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL DUE DATE
Spectrum	Agilent	E4446A	US44300459	May 08, 2011
Amp	HP	8449B	3008A02495	May 08, 2011
Antenna	EMCO	3115	9607-4877	May 17, 2011
Bilog Antenna	Schaffner	CBL6111C	2598	Dec.14, 2010
HF Cable	Hubersuhne	Sucoflex104		May 08, 2011



#### **Test Method**

The transmitter output is connected to the Spectrum analyzer. The Spectrum analyzer is set to the peak power detection.

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The resolution bandwidth(RBW) and the video bandwidth (VBW) of the spectrum analyzer were respectively set to 100kHz and 100kHz.

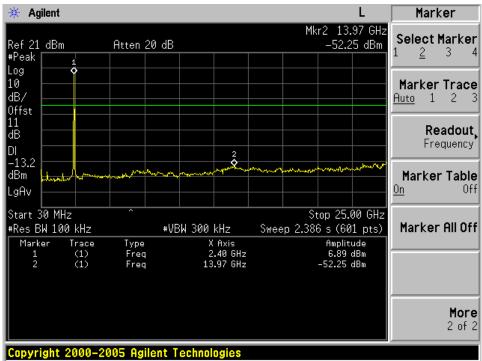
#### Limit

Frequency Range MHz	Limit (dBc)
1000-25000	-20

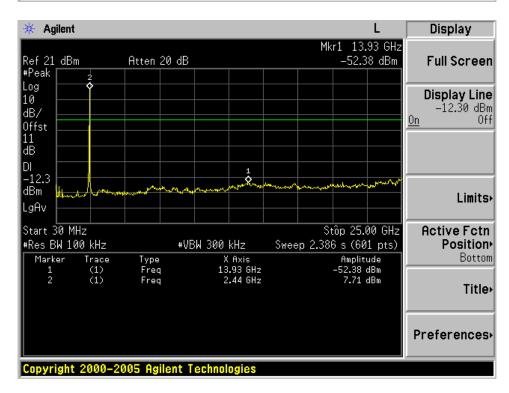
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IEEE 802.11b modulation (1 Mbps) Test Result 2412MHz

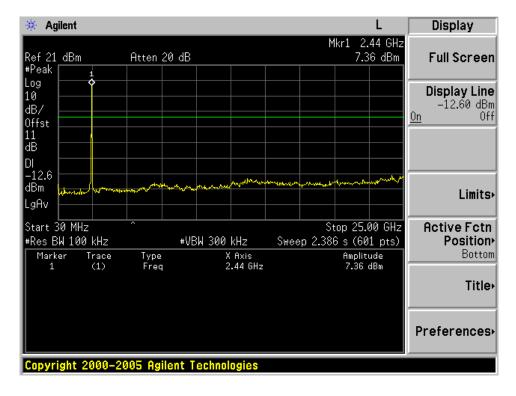


### 2437MHz

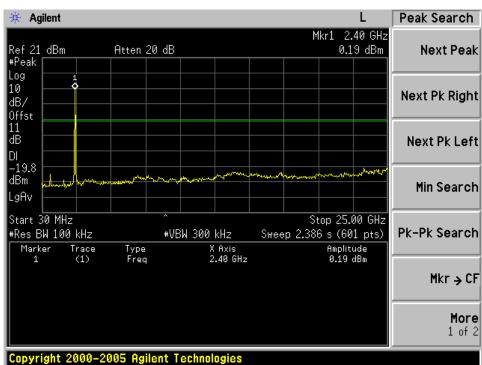




2462MHz

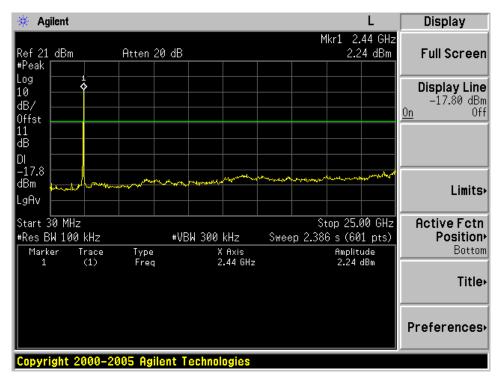


# IEEE 802.11g modulation (6 Mbps) Test Result 2412MHz

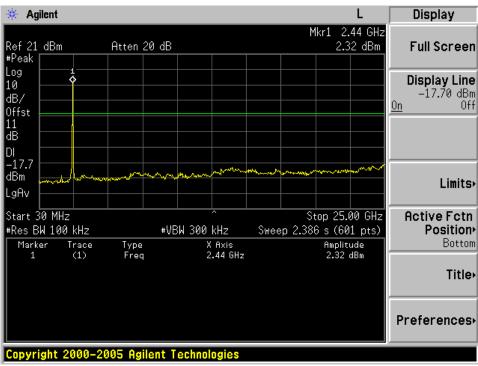




2437MHz

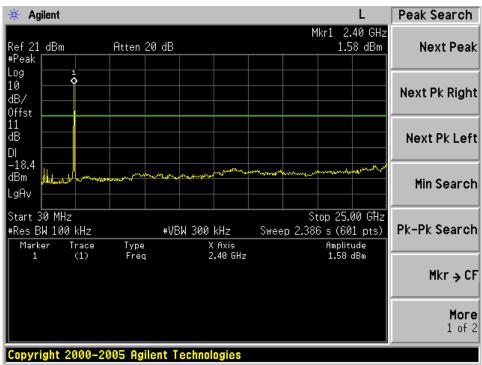


### 2462MHz

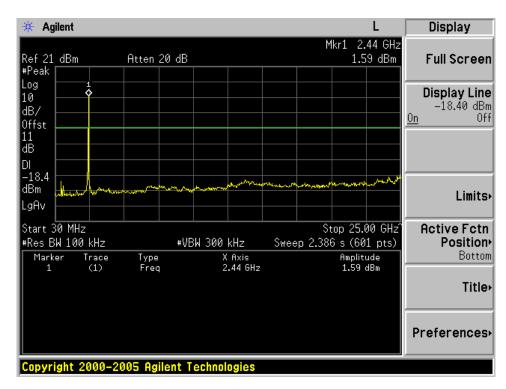




IEEE 802.11n HT20 modulation (6.5 Mbps) Test Result 2412MHz



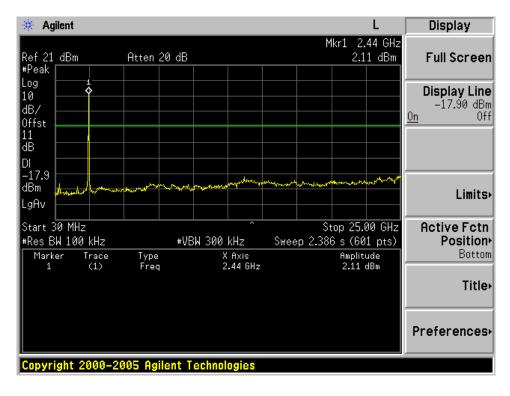
### 2437MHz



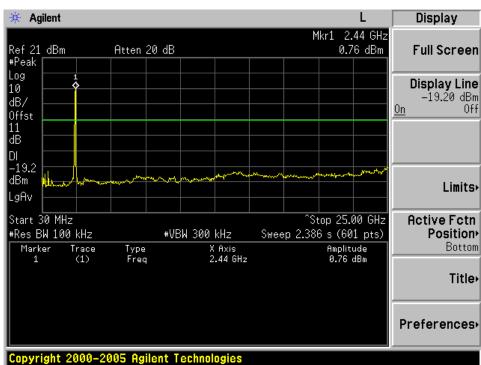


# Spurious RF conducted emissions

2462MHz



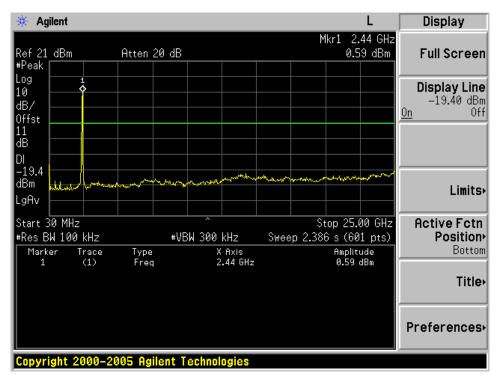
# IEEE 802.11n HT40 modulation (13.5 Mbps) Test Result 2422MHz



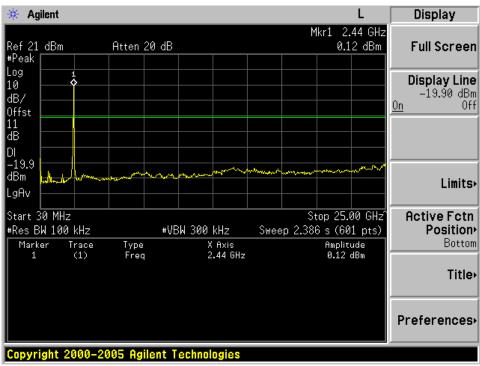


# **Spurious RF conducted emissions**

2437MHz



#### 2452MHz



6 floor, H Hall, Century Craftwork Culture Square, No. 4001, Fuqiang Road, Futian District, Shenzhen 518048, P. R. China, Tel. +86 755 8828 6998, Fax: +86 755 8828 5299



# **Test Equipment List**

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL.DUE.DATE
Spectrum Analyzer	Agilent	E4446A	US44300459	May 08, 2011

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# 7.5 Spurious radiated emissions

#### **Test Method**

- 1 The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2 The turntable shall be rotated for 360 degrees to determine the position of maximum emission level
- 3 EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4 Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5 Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

#### Limit

Frequency	Field Strength	Field Strength	Detector
MHz	uV/m	dBμV/m	
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK



# IEEE 802.11b modulation (1 Mbps) CH1 2412MHz Test Result

Frequency MHz	Cable Loss dB	Antenna Factor dB/m	Reading dBuV	Emission Level dBuV/m	Polarization	Limit dBµV/m	Detector	Result
88.170	1.38	9.10	47.41	29.89	Horizontal	43.5	QP	Pass
449.040	3.13	17.19	38.70	31.07	Horizontal	46.0	QP	Pass
524.700	3.41	18.69	44.89	38.80	Horizontal	46.0	QP	Pass
4824.000	10.64	34.32	13.15	58.11	Horizontal	74	PK	Pass
4824.000	10.64	34.32	-4.48	40.48	Horizontal	54	AV	Pass
7236.000	-	-	-	-	-	-	-	-
7236.000	-	-	-	-	-	-	-	-

# IEEE 802.11b modulation (1 Mbps) CH6 2437MHz Test Result

Frequency MHz	Cable Loss dB	Antenna Factor dB/m	Reading dBuV	Emission Level dBuV/m	Polarization	Limit dBµV/m	Detector	Result
4874.000	10.69	34.41	13.99	59.09	Horizontal	74	PK	Pass
4874.000	10.69	34.41	-4.73	40.64	Horizontal	54	AV	Pass
7311.000	-	-	-	-	-	-	-	-
7311.000	-	-	-	-	-	-	-	-

#### IEEE 802.11b modulation (1 Mbps) CH11 2462MHz Test Result

Frequency MHz	Cable Loss dB	Antenna Factor dB/m	Reading dBuV	Emission Level dBuV/m	Polarization	Limit dBµV/m	Detector	Result
4924.000	10.76	34.49	13.70	58.95	Horizontal	74	PK	Pass
4924.000	10.76	34.49	-4.50	40.75	Horizontal	54	AV	Pass
7386.000	-	-	-	-	-	-	-	-
7386,000	-	_	-	-	-	-	_	_

#### Remark:

- (1) Emission Level= Cable Loss(include amplifier factor) + Antenna Factor + Reading
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20db below the permissible limits or the field strength is too small to be measured.

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# IEEE 802.11g modulation (6 Mbps) CH1 2412MHz Test Result

Frequency MHz	Cable Loss dB	Antenna Factor dB/m	Reading dBuV	Emission Level dBuV/m	Polarization	Limit dBµV/m	Detector	Result
90.140	1.38	9.10	46.73	29.21	Horizontal	43.5	QP	Pass
524.700	3.41	18.69	43.93	37.84	Horizontal	46.0	QP	Pass
4824.000	10.64	34.32	12.85	57.81	Horizontal	74	PK	Pass
4824.000	10.64	34.32	-4.45	40.51	Horizontal	54	AV	Pass
7236.000	-	-	-	-	-	-	-	-
7236.000	-	_	_	-	-	-	-	_

IEEE 802.11g modulation (6 Mbps) CH6 2437MHz Test Result

Frequency MHz	Cable Loss dB	Antenna Factor dB/m	Reading dBuV	Emission Level dBuV/m	Polarization	Limit dBµV/m	Detector	Result
4874.000	10.69	34.41	12.52	57.62	Horizontal	74	PK	Pass
4874.000	10.69	34.41	-4.82	40.28	Horizontal	54	AV	Pass
7311.000	-	-	-	-	-	-	-	-
7311.000	-	_	_	-	-	_	_	-

IEEE 802.11g modulation (6 Mbps) CH11 2462MHz Test Result

Frequency MHz	Cable Loss dB	Antenna Factor dB/m	Reading dBuV	Emission Level dBuV/m	Polarization	Limit dBµV/m	Detector	Result
4924.000	10.76	34.49	12.60	57.85	Horizontal	74	PK	Pass
4924.000	10.76	34.49	-4.86	40.39	Horizontal	54	AV	Pass
7386.000	-	-	-	-	-	-	-	-
7386.000	-	-	-	-	-	-	-	-

#### Remark:

- (1) Emission Level= Cable Loss(include amplifier factor) + Antenna Factor + Reading
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20db below the permissible limits or the field strength is too small to be measured.

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# IEEE 802.11n HT20 modulation (6.5 Mbps) CH1 2412MHz Test Result

Frequency MHz	Cable Loss dB	Antenna Factor dB/m	Reading dBuV	Emission Level dBuV/m	Polarization	Limit dBµV/m	Detector	Result
47.460	1.08	10.03	49.25	32.42	Vertical	40.0	QP	Pass
524.700	3.41	18.69	43.84	37.75	Vertical	46.0	QP	Pass
4824.000	10.64	34.32	12.22	57.18	Horizontal	74	PK	Pass
4824.000	10.64	34.32	-4.56	40.40	Horizontal	54	AV	Pass
7236.000	-	-	-	-	-	-	-	-
7236.000	-	-	-	-	-	-	-	-

## IEEE 802.11n HT20 modulation (6.5 Mbps) CH6 2437MHz Test Result

Frequency MHz	Cable Loss dB	Antenna Factor dB/m	Reading dBuV	Emission Level dBuV/m	Polarization	Limit dBµV/m	Detector	Result
4874.000	10.69	34.41	12.63	57.73	Horizontal	74	PK	Pass
4874.000	10.69	34.41	-4.58	40.52	Horizontal	54	AV	Pass
7311.000	-	-	-	-	-	-	-	-
7311.000	-	_	_	-	-	-	_	_

# IEEE 802.11n HT20 modulation (6.5 Mbps) CH11 2462MHz Test Result

Frequency	Cable Loss	Antenna Factor	Reading	Emission Level	Polarization	Limit	Detector	Result
MHz	dB	dB/m	dBuV	dBuV/m		dΒμV/m		
4924.000	10.76	34.49	12.87	58.12	Horizontal	74	PK	Pass
4924.000	10.76	34.49	-4.67	40.58	Horizontal	54	AV	Pass
7386.000	-	-	-	-	-	-	-	-
7386.000	-	-	-	-	-	-	-	-

#### Remark:

- (1) Emission Level= Cable Loss(include amplifier factor) + Antenna Factor + Reading
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20db below the permissible limits or the field strength is too small to be measured.

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# IEEE 802.11n HT40 modulation (13.5 Mbps) CH3 2422MHz Test Result

Frequency MHz	Cable Loss dB	Antenna Factor dB/m	Reading dBuV	Emission Level dBuV/m	Polarization	Limit dBµV/m	Detector	Result
42.610	1.08	13.5	47.80	34.47	Horizontal	40.0	QP	Pass
524.700	3.41	18.69	44.37	38.28	Horizontal	46.0	QP	Pass
4844.000	10.67	34.35	12.29	57.31	Horizontal	74	PK	Pass
4844.000	10.67	34.35	-4.94	40.08	Horizontal	54	AV	Pass
7266.000	-	-	-	-	-	-	-	-
7266.000	-	-	-	-	-	-	-	-

## IEEE 802.11n HT40 modulation (13.5 Mbps) CH6 2437MHz Test Result

	quency MHz	Cable Loss dB	Antenna Factor dB/m	Reading dBuV	Emission Level dBuV/m	Polarization	Limit dBµV/m	Detector	Result
48	74.000	10.69	34.41	12.23	57.33	Horizontal	74	PK	Pass
48	74.000	10.69	34.41	-4.95	40.15	Horizontal	54	AV	Pass
73	11.000	-	-	-	-	-	-	-	-
73	11.000	-	-	-	-	-	-	-	-

# IEEE 802.11n HT40 modulation (13.5 Mbps) CH9 2452MHz Test Result

Frequency MHz	Cable Loss dB	Antenna Factor dB/m	Reading dBuV	Emission Level dBuV/m	Polarization	Limit dBµV/m	Detector	Result
4904.000	10.62	34.30	11.85	56.77	Horizontal	74	PK	Pass
4904.000	10.62	34.30	-5.07	39.85	Horizontal	54	AV	Pass
7356.000	-	-	-	-	-	-	-	-
7356.000	-	-	-	-	-	-	-	-

#### Remark:

- (1) Emission Level= Cable Loss(include amplifier factor) + Antenna Factor + Reading
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20db below the permissible limits or the field strength is too small to be measured.

Report Number: 68.850.10.054.01



# **Test Equipment List**

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL DUE DATE
Spectrum	Agilent	E4446A	US44300459	May 08, 2011
Amp	HP	8449B	3008A02495	May 08, 2011
Antenna	EMCO	3115	9607-4877	May 17, 2011
Bilog Antenna	Schaffner	CBL6111C	2598	Dec.14, 2010
HF Cable	Hubersuhne	Sucoflex104		May 08, 2011



#### 7.6 6 dB bandwidth

#### **Test Method**

- 1 Place the EUT on the table and set it in the transmitting mode.
- 2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3 Mark the peak frequency and -6dB (upper and lower) frequency.

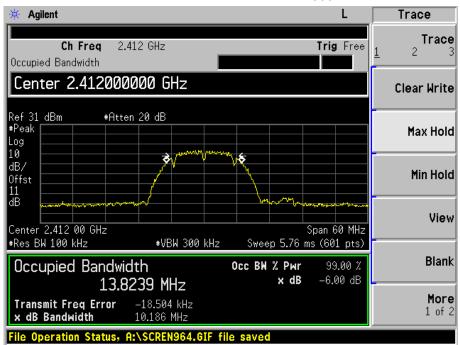
#### Limit

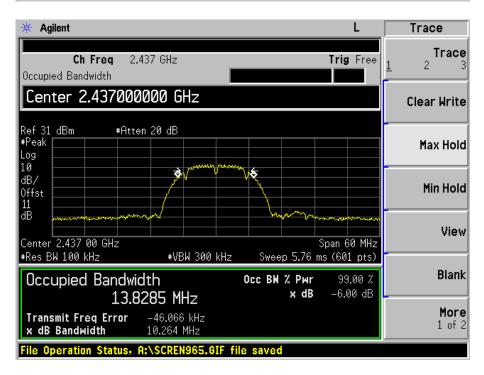
Limit [kHz]	
 ≥ 500	



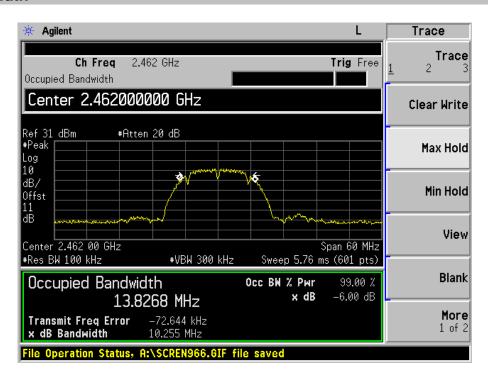
IEEE 802.11b modulation (1Mbps) Test Result

Frequency	Bandwidth	Limit	Result
MHz	kHz	kHz	
2412	13823	≥ 500	Pass
2437	13828	≥ 500	Pass
2462	13826	≥ 500	Pass





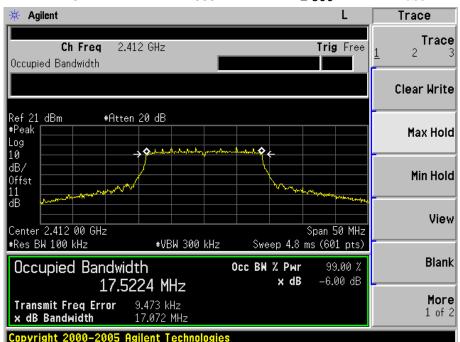


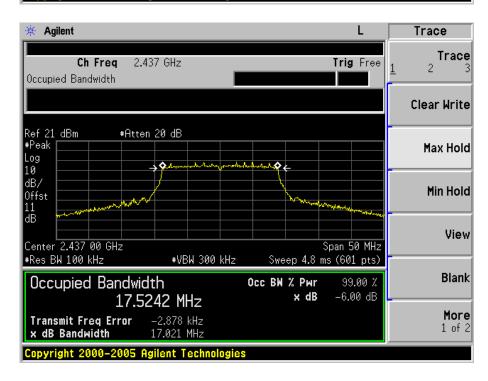




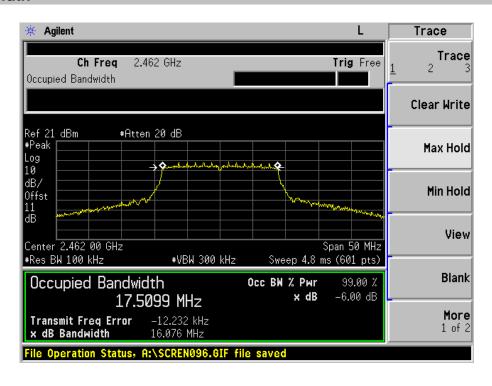
IEEE 802.11g modulation (6Mbps) Test Result

Frequency MHz	Bandwidth kHz	Limit kHz	Result
2412	17522	≥ 500	Pass
2437	17524	≥ 500	Pass
2462	17509	≥ 500	Pass





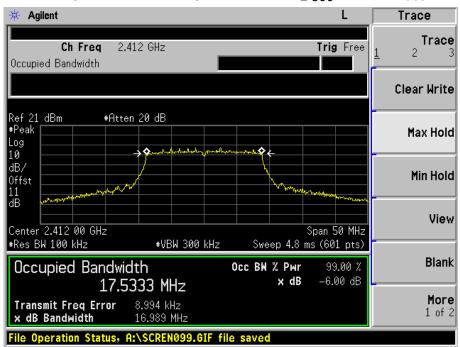


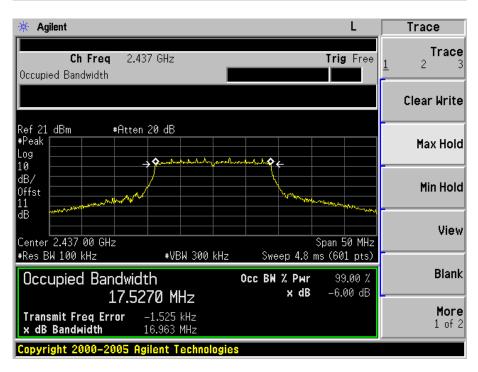




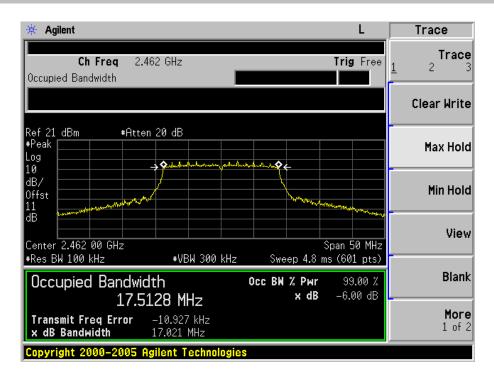
IEEE 802.11n HT20 modulation (6.5Mbps) Test Result

Frequency MHz	Bandwidth kHz	Limit kHz	Result
2412	17533	≥ 500	Pass
2437	17527	≥ 500	Pass
2462	17512	≥ 500	Pass





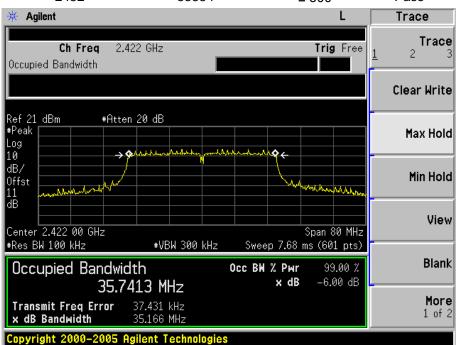


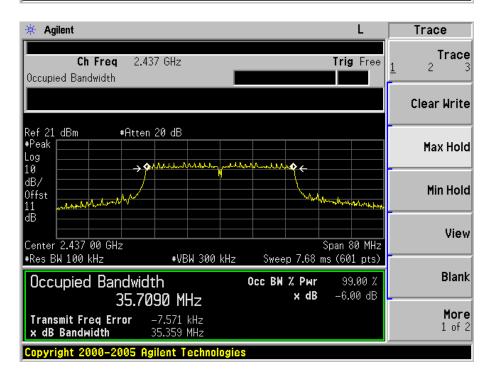




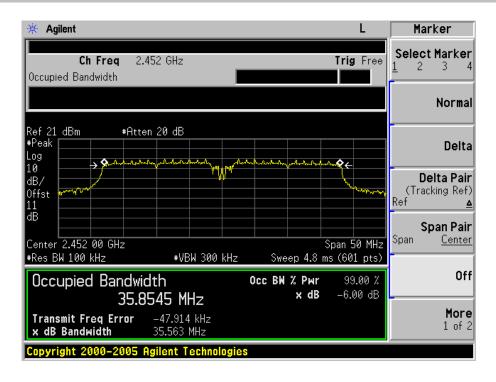
IEEE 802.11n HT40 modulation (13.5Mbps) Test Result

Frequency	Bandwidth	Limit	Result
MHz	kHz	kHz	
2422	35741	≥ 500	Pass
2437	35709	≥ 500	Pass
2452	35854	≥ 500	Pass











# **Test Equipment**

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL.DUE.DATE
Spectrum Analyzer	Agilent	E4446A	MY41440292	May 08, 2011



#### **Test Method**

1 Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

2 Set the spectrum analyzer as RBW = 3 kHz, VBW = 10 kHz, Span = 300kHz, Sweep = 100 s 3 Record the max reading.

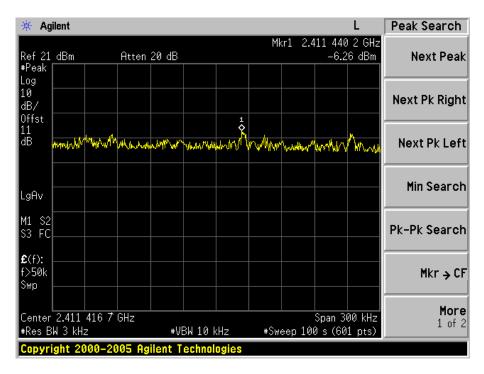
Limit

Limit	
dBm / 3 kHz	
8	

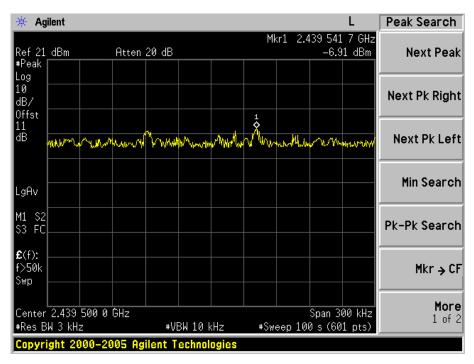


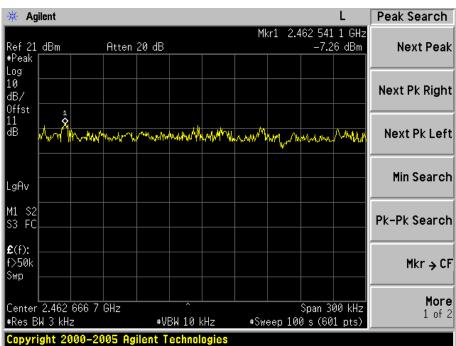
IEEE 802.11b modulation (1Mbps) Test Result

Frequency	Р	Result
MHz	dBm	
2412	-6.26	Pass
2437	-6.91	Pass
2462	-7.26	Pass





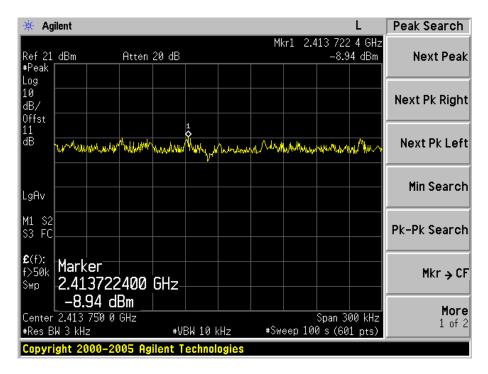




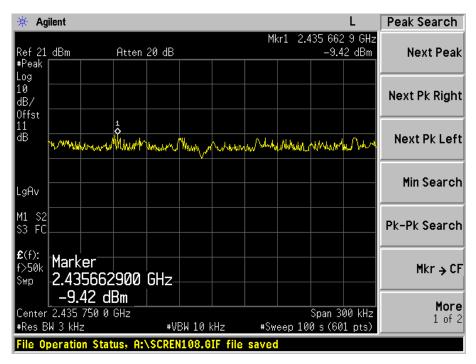


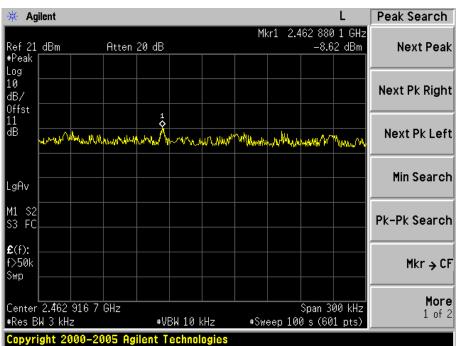
IEEE 802.11g modulation (6Mbps) Test Result

Frequency	Р	Result
MHz	dBm	
2412	-8.94	Pass
2437	-9.42	Pass
2462	-8.62	Pass





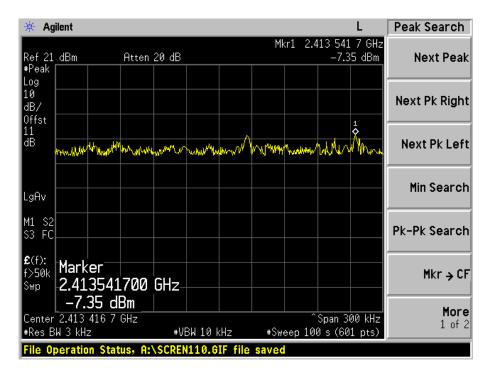




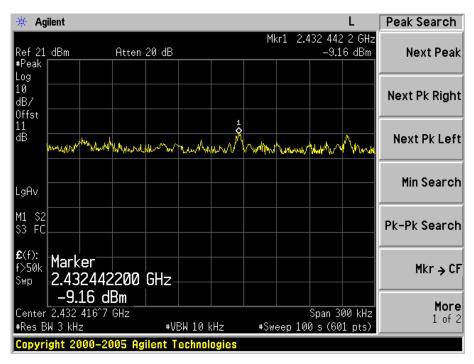


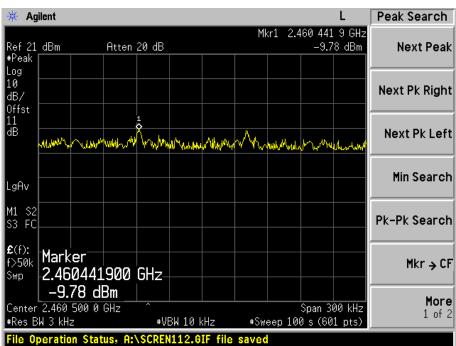
IEEE 802.11n HT20 modulation (6.5Mbps) Test Result

Frequency	Р	Result
MHz	dBm	
2412	-7.35	Pass
2437	-9.16	Pass
2462	-9.78	Pass





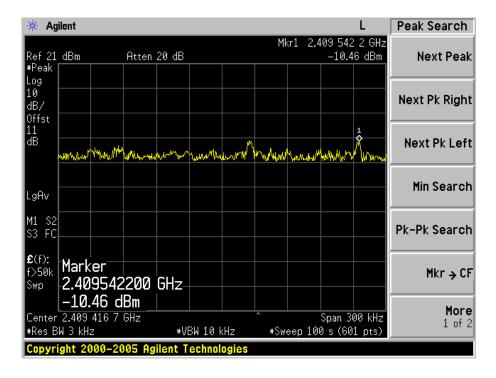




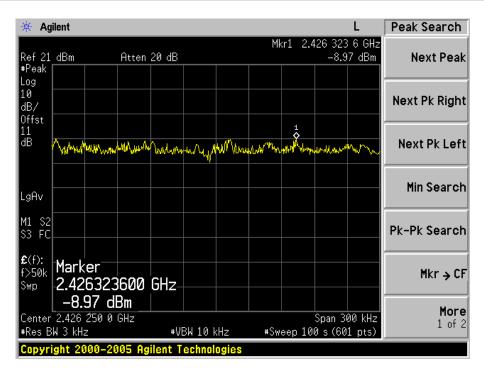


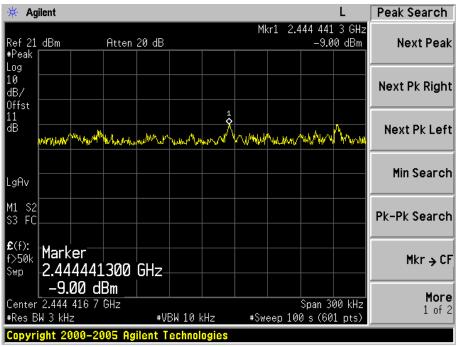
IEEE 802.11n HT40 modulation (13.5Mbps) Test Result

Frequency	P	Result
MHz	dBm	
2422	-10.46	Pass
2437	-8.97	Pass
2452	-9.00	Pass











# **Test Equipment**

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL.DUE.DATE
Spectrum Analyzer	Agilent	E4407B	MY41440292	May 8, 2011



# **8 System Measurement Uncertainty**

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

**System Measurement Uncertainty** 

	Items	Extended Uncertainty
RE	Field strength (dBμV/m)	U=4.32dB (30MHz-25GHz)
CE	Disturbance Voltage (dBμV)	U=2.4dB