



# FCC TEST REPORT

According to

## FCC CFR Title 47 Part 15 Subpart C

Applicant	: Huawei Technologies Co., Ltd.
Address	: Administration Building, Huawei Base, Bantian, Longgang District, Shenzhen 518129 P.R.C.
Manufacturer	: Huawei Technologies Co., Ltd.
Address	: Administration Building, Huawei Base, Bantian, Longgang District, Shenzhen 518129 P.R.C.
Factory	: Askey Technology (Jiangsu) Ltd.
Address	: No.1388, JiaoTong Road, WuJiang Economic-Technological Development Area, Jiangsu Province, P.R.C.
Equipment	: Home Gateway
Model No.	: HG523
Trade Mark	: HUAWEI
FCC ID	: QIS-HG523V1

It is a serials report. The original report No.: SEFI1006073

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- The test report must not be used by the clients to claim product certification approval by **NVLAP** or any agency of the Government.



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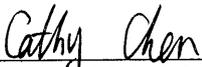
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Equipment : Home Gateway  
Model No. : HG523  
Trade Mark : HUAWEI  
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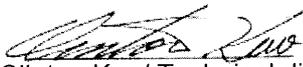
### I HEREBY CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4 – 2003** and the energy emitted by this equipment was **passed CISPR PUB. 22 and FCC Part 15** in both radiated and conducted emission class B limits. Testing was carried out on Oct 12, 2010 at **CerpPASS Technology Corp.**

Documented By:

Approved By:

  
Cathy Chen/ Administration

  
Clinton Kao/ Technical director



### 1. Report of Measurements and Examinations

FCC CFR Title 47 Part 15 Subpart C: 2007			
ANSI C63.4: 2003			
Clause	Test Parameter	Test Performed	Remark
15.207	Conducted Emission	YES	PASS
15.209	Radiated Emission	YES	PASS
15.247(a) 15.215(c)	Occupied Bandwidth	YES	PASS
15.247(b)	Maximum Peak Output Power	YES	PASS
15.247(c)	Band Edges	YES	PASS
15.247(c)	RF antenna conducted	YES	PASS
15.247(d)	Power Spectral Density	YES	PASS



## 2. Test Configuration of Equipment under Test

### 2.1. Feature of Equipment under Test

Home Gateway	Model No.:	HG523
	Trade Mark:	HUAWEI
Adapter #1	Manufacturer:	UE
	Model No.:	UE06L4-120050SPAU
	Input:	100-240V~50/60Hz 0.2A MAX
	Output:	12.0V  0.5 A
Adapter #2	Manufacturer:	SHENZHEN FRECOM ELECTRONICS CO.,LTD
	Model No.:	FPS005USA-120050
	Input:	100-240V~50/60Hz 300mA
	Output:	12V  0.5A

Spreading	802.11b: DSSS 802.11g / n: OFDM
Frequency Range	802.11b/g/n(20MHz): 2412-2462MHz 802.11n(40MHz): 2422-2452MHz
Number of Channels	802.11b/g/n (20MHz):11 802.11n (40MHz): 7
Data Rate	802.11b: 11, 5.5, 2, 1 Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11n: up to 300Mbps
Antenna Type	PIFA
Antenna Gain	2.0dBi
Remark	Power adapter #1 and #2 have been pre-tested. Power adapter #1 has demonstrated the worst case emissions. Therefore, adapter #1 was selected as the test model in this test report. For the detail information please reference to the FCC DOC Report.



## 2.2. Carrier Frequency of Channels

802.11b, 802.11g, 802.11n (20MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	11	2462
06	2437	---	---

802.11n (40MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
---	---	07	2442
---	---	08	2447
03	2422	09	2452
04	2427	---	---
05	2432	---	---
06	2437	---	---



### 2.3. Test Manner

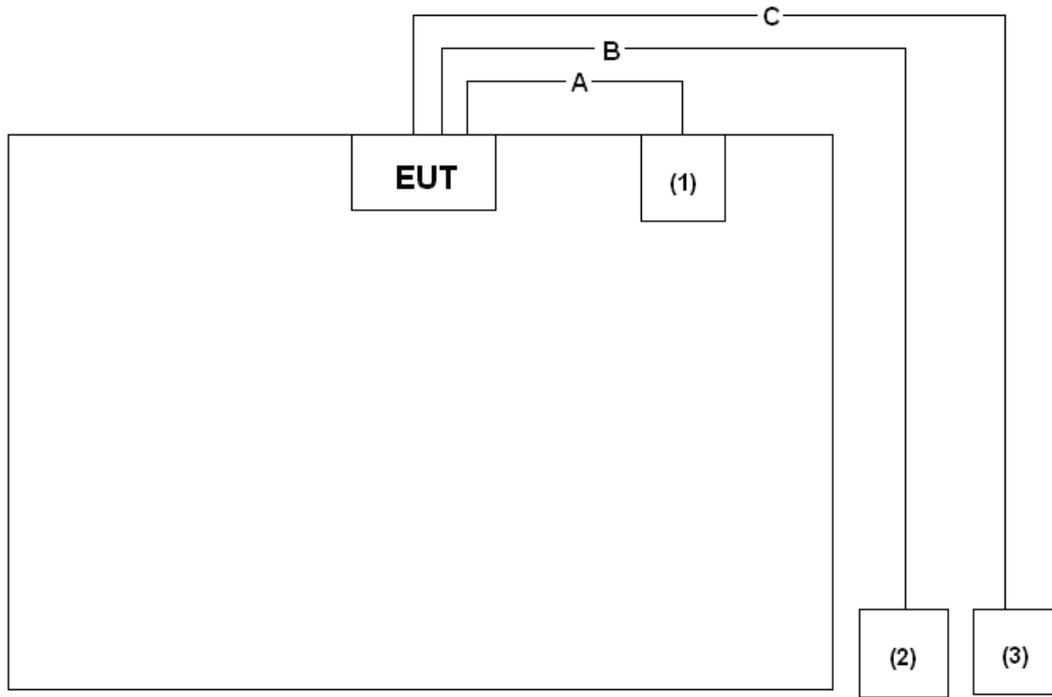
Test Manner	
a	During testing, the interface cables and equipment positions were varied according to 47 CFR, Part 2, Part 15
b	The complete test system included the HUB, IP Express, Notebook and EUT for RF test.
c	Connect the HUB, IP Express, Notebook and EUT.
d	Adjust the EUT at the test mode and the channel. Then test.
The test modes:	
	Mode 1: Transmit by 802.11b
	Mode 2: Transmit by 802.11g
	Mode 3: Transmit by 802.11n (20MHz)
	Mode 4: Transmit by 802.11n (40MHz)

### 2.4. Description of Test System

No.	Device	Manufacturer	Model No.	Serial No.
1	HUB	BELKIN	F5D5141-24	Power by adaptor
2	IP Express	ASKEY	N/A	N/A
3	Notebook	ASUS	W6A	Power by adaptor



### 2.5. Connection Diagram of Test System



Use Cable

No.	Cable	Quantity	Description
A	LAN cable	1	Non-shielding, 1.5m
B	Telephone cable	1	Non-shielding, >5m
C	LAN cable	1	Non-shielding, >5m

**2.6. General Information of Test**

Test Site:	CerpPASS Technology Corp.
Performand Location :	No.66,Tangzhuang Road, Suzhou Industrial Park, Jiangsu 215006, China
NVLAP LAB Code :	200814-0
FCC Registration Number :	916572, 331395
IC Registration Number :	7290A-1, 7290A-2
VCCI Registration Number :	T-343 for Telecommunication Test C-2919 for Conducted emission test R-2670 for Radiated emission test below 1GHz G-227 for Radiated emission test above 1GHz

Laboratory accreditation

**2.7. Measurement Uncertainty**

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9 kHz ~ 30 MHz	LINE/NEUTRAL	±2.71 dB
Radiated Emission	30 MHz ~ 25GHz	Vertical	±4.11 dB
		Horizontal	±4.10 dB
Occupied Bandwidth	---	---	±7500 Hz
Maximum Peak Output Power	---	---	±1.4 dB
Band Edges	---	---	±2.2 dB
Power Spectral Density	---	---	±2.2 dB



### 3. Test of Conducted Emission

#### 3.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB $\mu$ V)	Average (dB $\mu$ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

\*Decreases with the logarithm of the frequency.

#### 3.2. Test Procedures

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

The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)

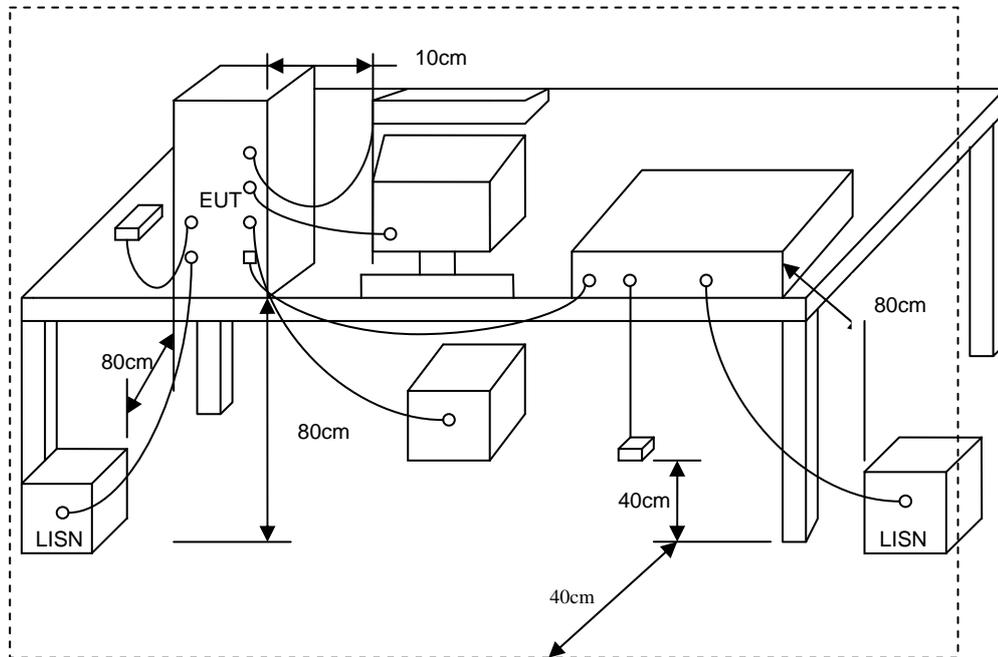
Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.



### 3.3. Typical Test Setup



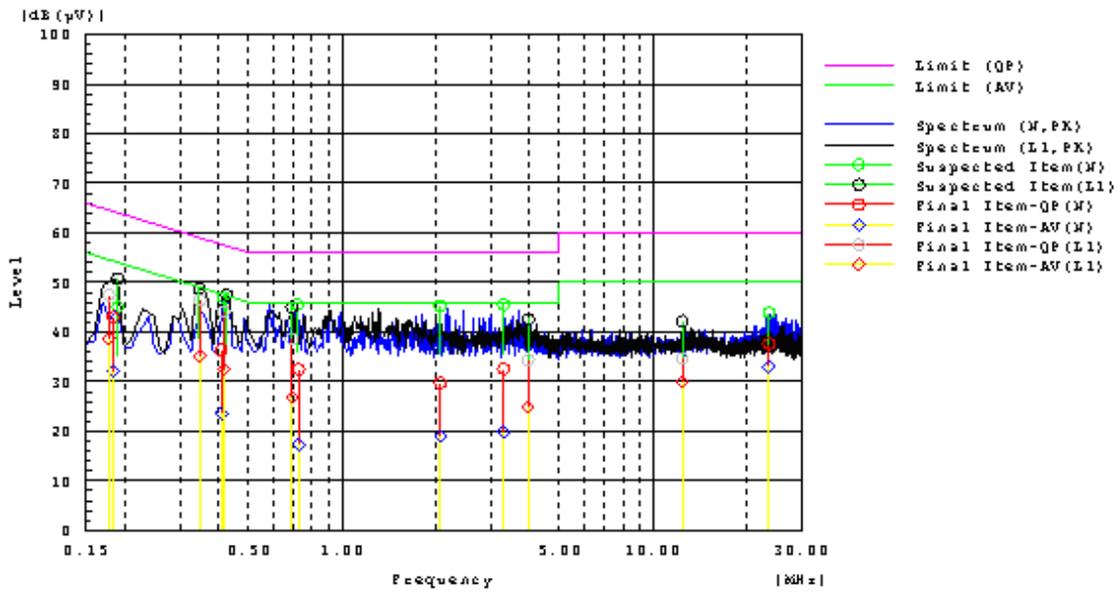
### 3.4. Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date
Test Receiver	R&S	ESCI	100565	2010.01.15
AMN	R&S	ESH2-Z5	100182	2010.06.23
Two-Line V-Network	R&S	ENV216	100325	2010.04.18
ISN	FCC	FCC-TLISN-T2-02	20379	2010.06.23
ISN	FCC	FCC-TLISN-T4-02	20380	2010.06.23
ISN	FCC	FCC-TLISN-T8-02	20381	2010.06.23
Attenuator	R&S	ESH3-Z2	100529	2010.01.11
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-004	2010.08.14



### 3.5. Test Result and Data

Test Mode :	Mode 1: Transmit by 802.11b (2437MHz)		
AC Power :	AC 120V/60Hz	Phase :	L&N
Temperature :	22°C	Humidity:	50%
Pressur(mbar) :	1002	Date:	2010/10/10

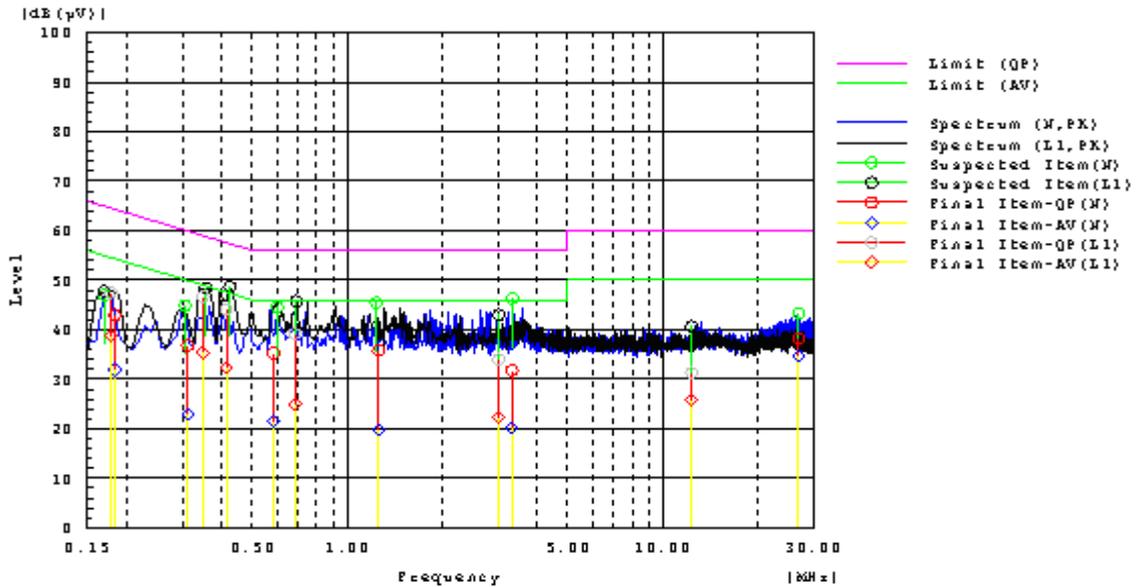


Frequency MHz	Line Phase	Reading dB(uV) QP	Reading dB(uV) AV	Factor dB	Level dB(uV) QP	Level dB(uV) AV	Limit dB(uV) QP	Limit dB(uV) AV	Margin dB QP	Margin dB AV	Pass/Fail
0.17774	L1	27.6	18.8	19.9	47.5	38.7	64.6	54.6	17.1	15.9	Pass
0.34846	L1	26.5	15.2	19.9	46.4	35.1	59.0	49.0	12.6	13.9	Pass
0.68757	L1	18.9	7.0	19.8	38.7	26.8	56.0	46.0	17.3	19.2	Pass
3.96608	L1	14.7	5.2	19.7	34.4	24.9	56.0	46.0	21.6	21.1	Pass
12.4008	L1	14.9	10.1	19.8	34.7	29.9	60.0	50.0	25.3	20.1	Pass
0.415	L1	24.2	12.6	19.9	44.1	32.5	57.5	47.5	13.4	15.0	Pass
0.40792	N	16.9	4.1	19.5	36.4	23.6	57.7	47.7	21.3	24.1	Pass
0.7223	N	13.0	-2.2	19.5	32.5	17.3	56.0	46.0	23.5	28.7	Pass
3.30386	N	12.9	0.3	19.6	32.5	19.9	56.0	46.0	23.5	26.1	Pass
23.634	N	17.8	13.1	19.8	37.6	32.9	60.0	50.0	22.4	17.1	Pass
0.18327	N	23.5	12.5	19.5	43.0	32.0	64.3	54.3	21.3	22.3	Pass
2.07079	N	10.2	-0.4	19.5	29.7	19.1	56.0	46.0	26.3	26.9	Pass

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 2: Transmit by 802.11g (2437MHz)		
AC Power :	AC 120V/60Hz	Phase :	L&N
Temperature :	22°C	Humidity:	50%
Pressur(mbar) :	1002	Date:	2010/10/10

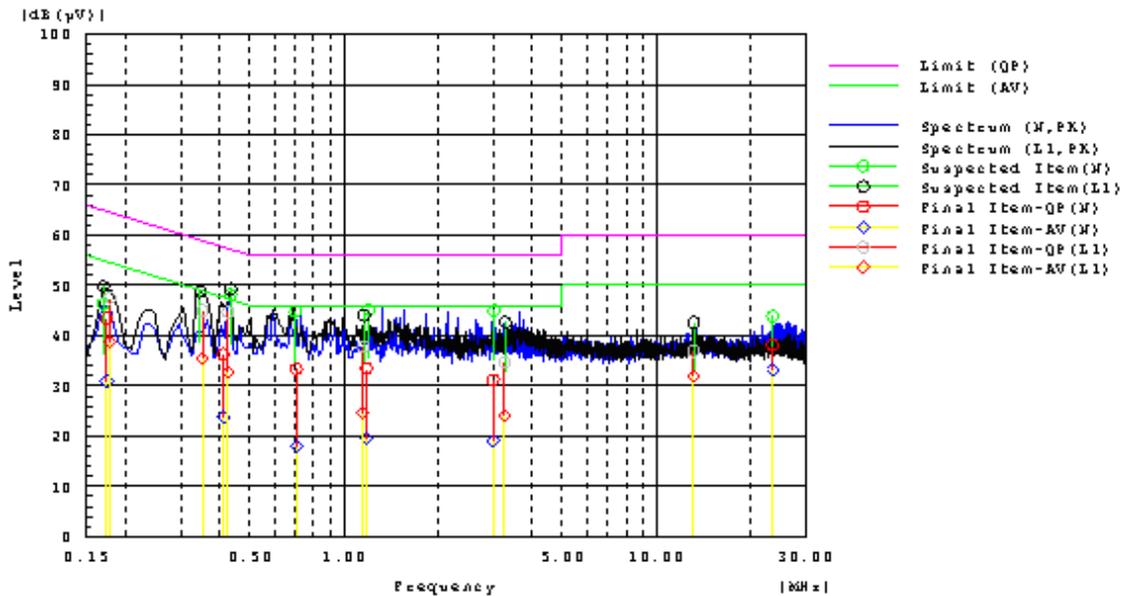


Frequency MHz	Line Phase	Reading dB(uV) QP	Reading dB(uV) AV	Factor dB	Level dB(uV) QP	Level dB(uV) AV	Limit dB(uV) QP	Limit dB(uV) AV	Margin dB QP	Margin dB AV	Pass/Fail
0.41423	L1	24.2	12.4	19.9	44.1	32.3	57.6	47.6	13.5	15.3	Pass
0.17794	L1	27.6	18.8	19.9	47.5	38.7	64.6	54.6	17.1	15.9	Pass
0.34846	L1	26.8	15.5	19.9	46.7	35.4	59.0	49.0	12.3	13.6	Pass
0.68127	L1	19.4	5.3	19.8	39.2	25.1	56.0	46.0	16.8	20.9	Pass
3.01945	L1	14.3	2.7	19.7	34.0	22.4	56.0	46.0	22.0	23.6	Pass
12.3486	L1	11.5	6.0	19.8	31.3	25.8	60.0	50.0	28.7	24.2	Pass
1.25619	N	16.4	0.3	19.4	35.8	19.7	56.0	46.0	20.2	26.3	Pass
0.18356	N	23.5	12.4	19.5	43.0	31.9	64.3	54.3	21.3	22.4	Pass
0.58378	N	15.7	2.1	19.5	35.2	21.6	56.0	46.0	20.8	24.4	Pass
3.32423	N	12.2	0.5	19.6	31.8	20.1	56.0	46.0	24.2	25.9	Pass
26.9416	N	18.5	14.9	19.8	38.3	34.7	60.0	50.0	21.7	15.3	Pass
0.31209	N	17.3	3.4	19.5	36.8	22.9	59.9	49.9	23.1	27.0	Pass

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 3: Transmit by 802.11n(20MHz) (2437MHz)		
AC Power :	AC 120V/60Hz	Phase :	L&N
Temperature :	22°C	Humidity:	50%
Pressur(mbar) :	1002	Date:	2010/10/10

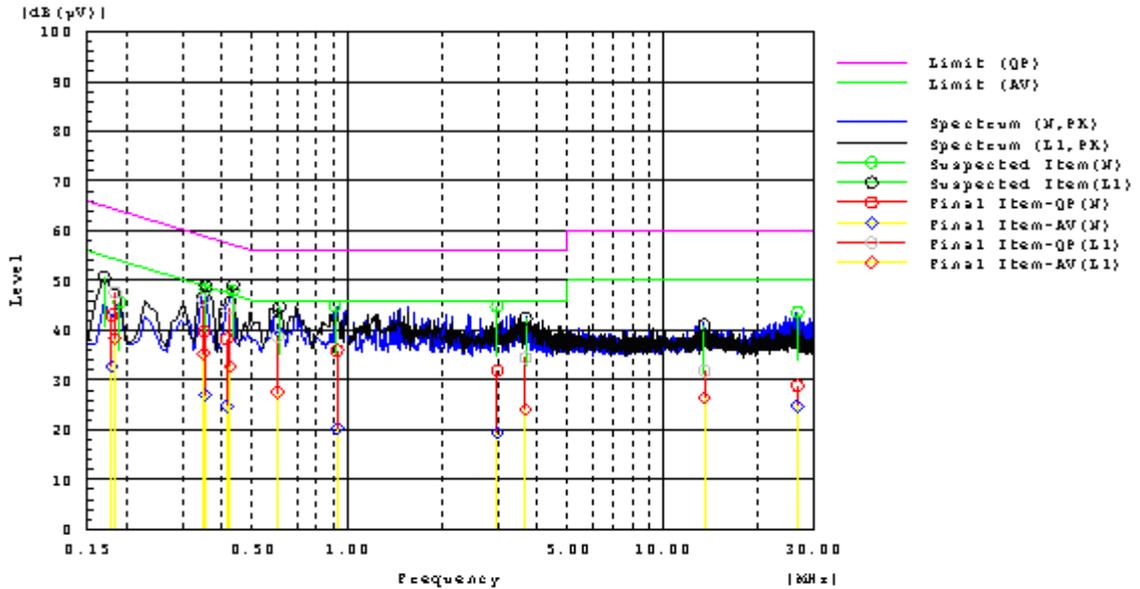


Frequency MHz	Line Phase	Reading dB(uV) QP	Reading dB(uV) AV	Factor dB	Level dB(uV) QP	Level dB(uV) AV	Limit dB(uV) QP	Limit dB(uV) AV	Margin dB QP	Margin dB AV	Pass/Fail
0.42548	L1	24.8	12.8	19.9	44.7	32.7	57.3	47.3	12.6	14.6	Pass
0.17823	L1	27.6	18.9	19.9	47.5	38.8	64.6	54.6	17.1	15.8	Pass
1.15123	L1	18.1	5.0	19.7	37.8	24.7	56.0	46.0	18.2	21.3	Pass
0.35225	L1	25.1	15.6	19.9	45.0	35.5	58.9	48.9	13.9	13.4	Pass
13.1466	L1	17.1	12.2	19.8	36.9	32.0	60.0	50.0	23.1	18.0	Pass
3.26574	L1	15.0	4.5	19.7	34.7	24.2	56.0	46.0	21.3	21.8	Pass
0.41064	N	16.8	4.2	19.5	36.3	23.7	57.6	47.6	21.3	23.9	Pass
1.17898	N	14.1	0.3	19.4	33.5	19.7	56.0	46.0	22.5	26.3	Pass
2.99802	N	11.6	-0.5	19.6	31.2	19.1	56.0	46.0	24.8	26.9	Pass
0.70271	N	13.9	-1.5	19.5	33.4	18.0	56.0	46.0	22.6	28.0	Pass
23.5064	N	18.3	13.2	19.9	38.2	33.1	60.0	50.0	21.8	16.9	Pass
0.17415	N	23.9	11.5	19.5	43.4	31.0	64.8	54.8	21.4	23.8	Pass

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 4: Transmit by 802.11 n(40MHz) (2437MHz)		
AC Power :	AC 120V/60Hz	Phase :	L&N
Temperature :	22°C	Humidity:	50%
Pressur(mbar) :	1002	Date:	2010/10/10



Frequency MHz	Line Phase	Reading dB(uV) QP	Reading dB(uV) AV	Factor dB	Level dB(uV) QP	Level dB(uV) AV	Limit dB(uV) QP	Limit dB(uV) AV	Margin dB QP	Margin dB AV	Pass/Fail
0.42432	L1	24.6	12.8	19.9	44.5	32.7	57.4	47.4	12.9	14.7	Pass
0.18366	L1	27.7	18.5	19.9	47.6	38.4	64.3	54.3	16.7	15.9	Pass
0.35001	L1	26.3	15.5	19.9	46.2	35.4	59.0	49.0	12.8	13.6	Pass
0.60095	L1	19.0	7.8	19.8	38.8	27.6	56.0	46.0	17.2	18.4	Pass
3.67071	L1	14.8	4.4	19.7	34.5	24.1	56.0	46.0	21.5	21.9	Pass
13.5464	L1	12.0	6.6	19.8	31.8	26.4	60.0	50.0	28.2	23.6	Pass
0.35263	N	20.3	7.5	19.5	39.8	27.0	58.9	48.9	19.1	21.9	Pass
0.1791	N	23.5	13.2	19.5	43.0	32.7	64.5	54.5	21.5	21.8	Pass
0.93036	N	16.5	0.8	19.4	35.9	20.2	56.0	46.0	20.1	25.8	Pass
2.99229	N	12.4	-0.2	19.6	32.0	19.4	56.0	46.0	24.0	26.6	Pass
26.7114	N	9.1	5.0	19.8	28.9	24.8	60.0	50.0	31.1	25.2	Pass
0.41549	N	18.8	5.3	19.5	38.3	24.8	57.5	47.5	19.2	22.7	Pass

Note: Measurement Level = Reading Level + Correct Factor

Test engineer: Fred Guo



## 4. Test of Radiated Emission

### 4.1. Test Limit

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defines in ANSI C63.4-2003. The EUT was placed, 0.8 meter above the ground plane, as shown in section 5.6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions for unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance Meters	Radiated ( $\mu$ V / M)	Radiated (dB $\mu$ V/ M)
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the below table.

Frequency (MHz)	Distance Meters	Radiated (dB $\mu$ V/ M)
30-230	10	30
230-1000	10	37

### 4.2. Test Procedures

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

The EUT is placed on a turn table which is 0.8 meter above ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, then the video



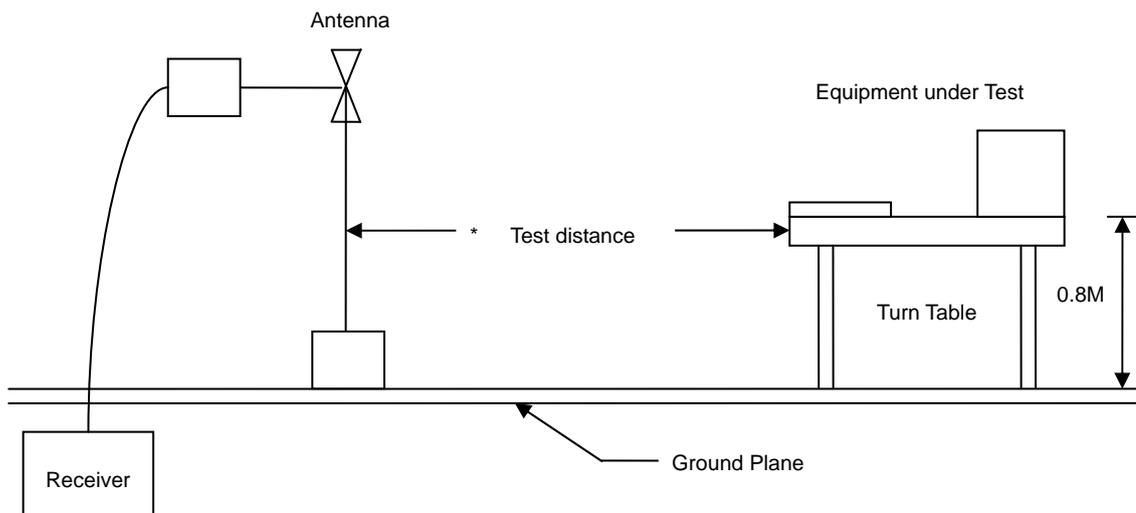
bandwidth is set to 1MHz for peak measurements and 10Hz for average measurements.

The spectrum from 30MHz to 26GHz is investigated with the transmitter set to the lowest, middle and highest channels in the 2.4GHz band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are Made with the antenna polarized in both the vertical and the horizontal positions.

When performing radiated measurements >1 GHz, the EUT always remains within the 3dB beam-width of the measuring antenna.

### 4.3. Typical Test Setup



**4.4. Measurement Equipment**

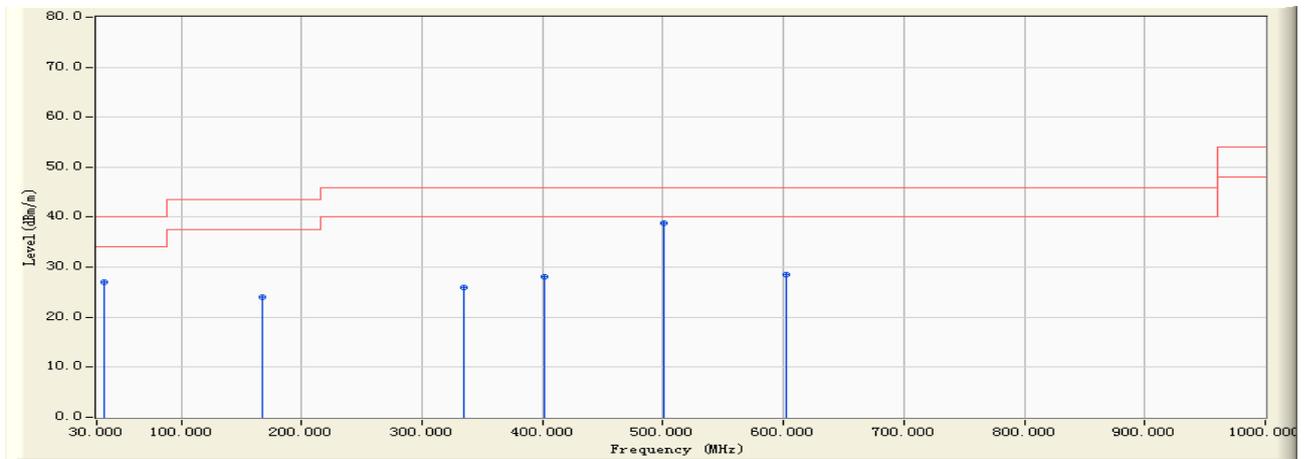
Instrument	Model No.	Manufacturer	Serial No.	Calibration Date
EMI Test Receiver	R&S	ESCI	100563	2010.06.23
H64 Amplifier	HP	8447F	3113A05582	2010.08.14
Preamplifier	Agilent	8449B	ED-HE-EMI-077	2010.02.10
Preamplifier	Agilent	8449B	3008A02342	2010.02.10
Ultra Broadband Antenna	R&S	HL562	100362	2009.11.25
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-619	2009.11.10
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	9170-347	2009.10.15
Spectrum Analyzer	R&S	FSP40	100324	2010.08.14
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2010.08.17



### 4.5. Test Result and Data

Under 1GHz:

Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 10:09
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2412MHz)



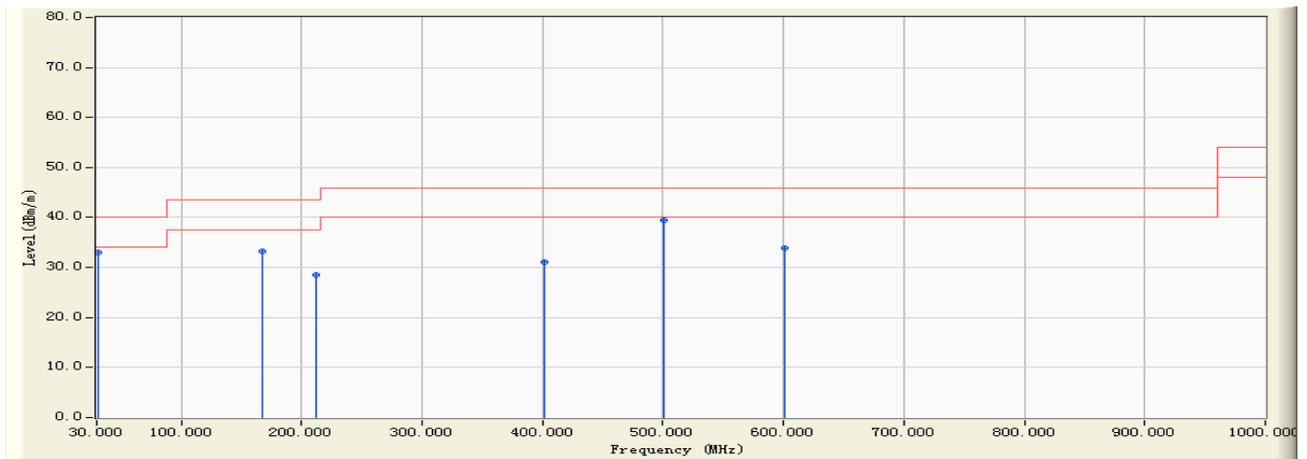
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBUV)	Measure Level (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Detector Type
1		35.680	-8.182	35.210	27.028	-12.972	40.000	QUASPEAK
2		167.850	-15.248	39.210	23.962	-19.538	43.500	QUASPEAK
3		335.210	-9.782	35.640	25.858	-20.142	46.000	QUASPEAK
4		401.360	-7.549	35.620	28.071	-17.929	46.000	QUASPEAK
5	*	500.180	-4.811	43.560	38.750	-7.250	46.000	QUASPEAK
6		602.370	-2.695	31.250	28.554	-17.446	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 10:10
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2412MHz)



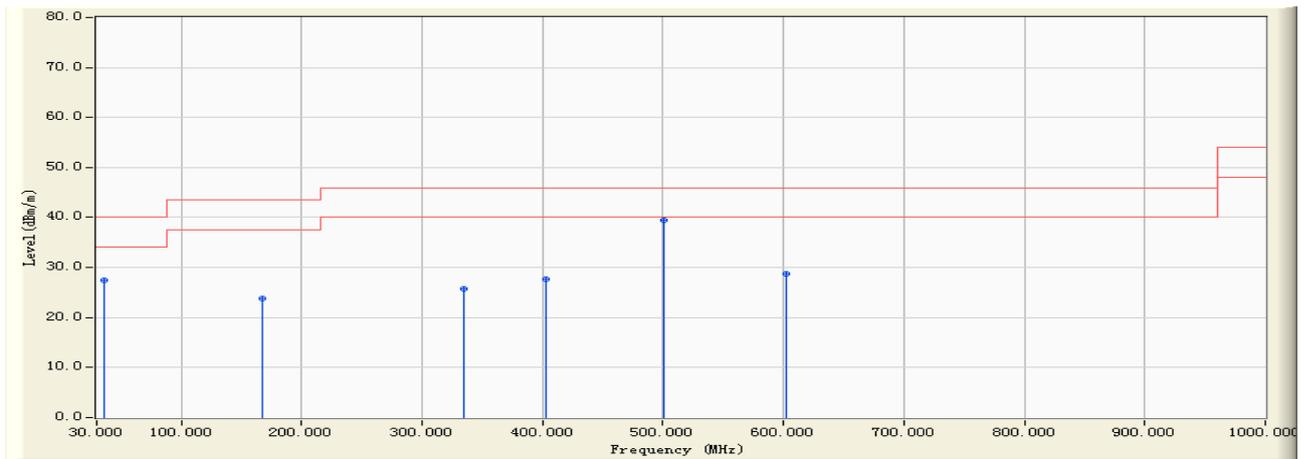
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		31.630	-5.960	39.020	33.060	-6.940	40.000	QUASPEAK
2		167.580	-15.261	48.530	33.269	-10.231	43.500	QUASPEAK
3		211.540	-14.702	43.160	28.457	-15.043	43.500	QUASPEAK
4		401.230	-7.553	38.570	31.017	-14.983	46.000	QUASPEAK
5	*	500.160	-4.811	44.210	39.399	-6.601	46.000	QUASPEAK
6		601.320	-2.678	36.580	33.901	-12.099	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 10:11
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2437MHz)



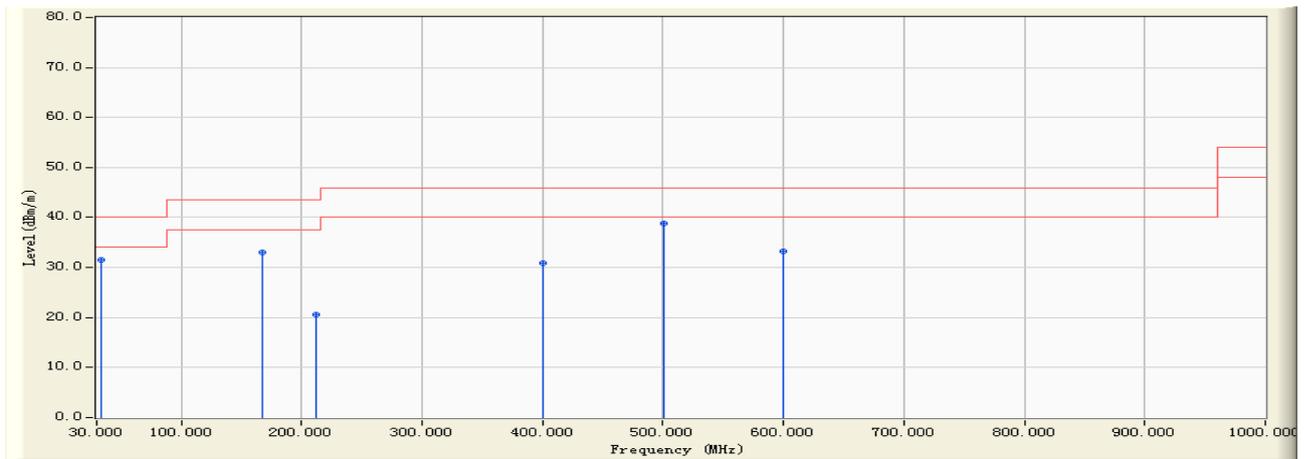
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		35.620	-8.151	35.640	27.489	-12.511	40.000	QUASPEAK
2		167.850	-15.248	39.010	23.762	-19.738	43.500	QUASPEAK
3		335.240	-9.779	35.610	25.830	-20.170	46.000	QUASPEAK
4		402.330	-7.504	35.240	27.736	-18.264	46.000	QUASPEAK
5	*	500.650	-4.799	44.280	39.481	-6.519	46.000	QUASPEAK
6		602.370	-2.695	31.540	28.844	-17.156	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 10:12
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2437MHz)



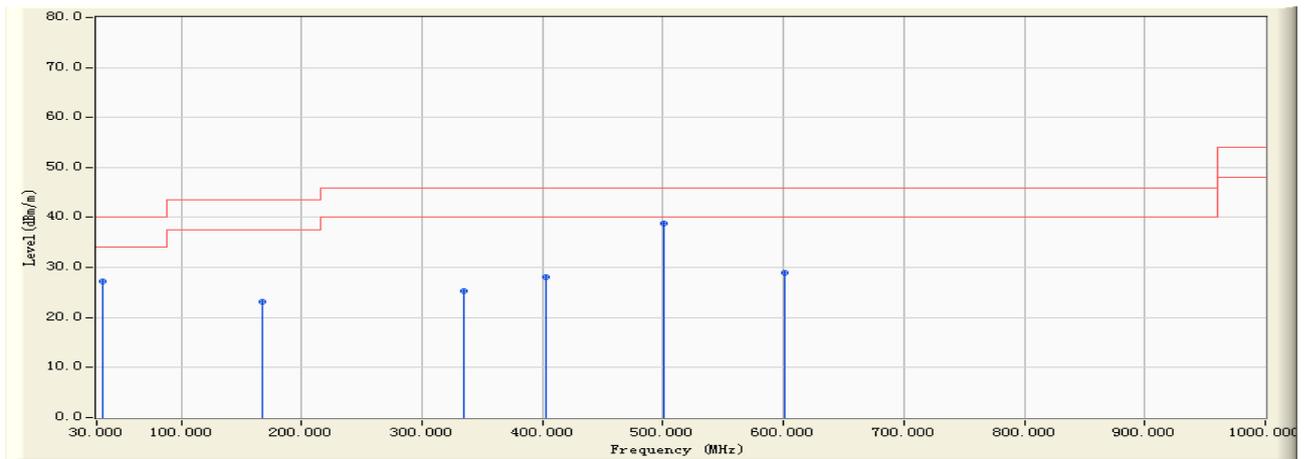
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		33.630	-7.121	38.650	31.529	-8.471	40.000	QUASIPeAK
2		167.580	-15.261	48.360	33.099	-10.401	43.500	QUASIPeAK
3		211.580	-14.701	35.200	20.499	-23.001	43.500	QUASIPeAK
4		400.210	-7.584	38.570	30.986	-15.014	46.000	QUASIPeAK
5	*	500.620	-4.800	43.580	38.780	-7.220	46.000	QUASIPeAK
6		600.360	-2.649	35.860	33.211	-12.789	46.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 10:13
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2462MHz)



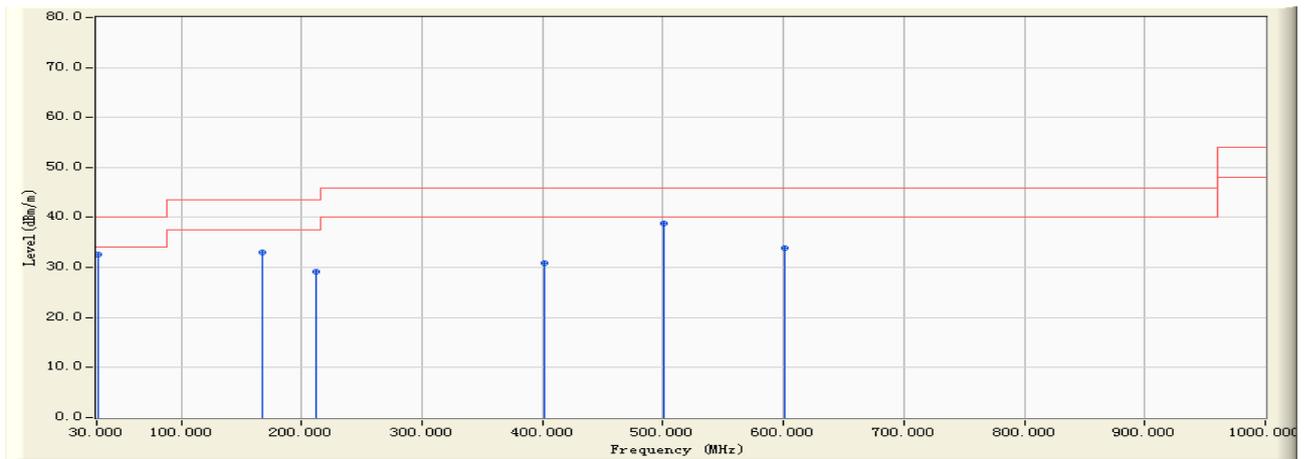
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		35.290	-7.977	35.210	27.233	-12.767	40.000	QUASPEAK
2		167.690	-15.257	38.520	23.263	-20.237	43.500	QUASPEAK
3		335.210	-9.782	35.140	25.358	-20.642	46.000	QUASPEAK
4		402.350	-7.503	35.540	28.037	-17.963	46.000	QUASPEAK
5	*	500.150	-4.811	43.580	38.769	-7.231	46.000	QUASPEAK
6		601.360	-2.680	31.540	28.860	-17.140	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 10:13
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2462MHz)



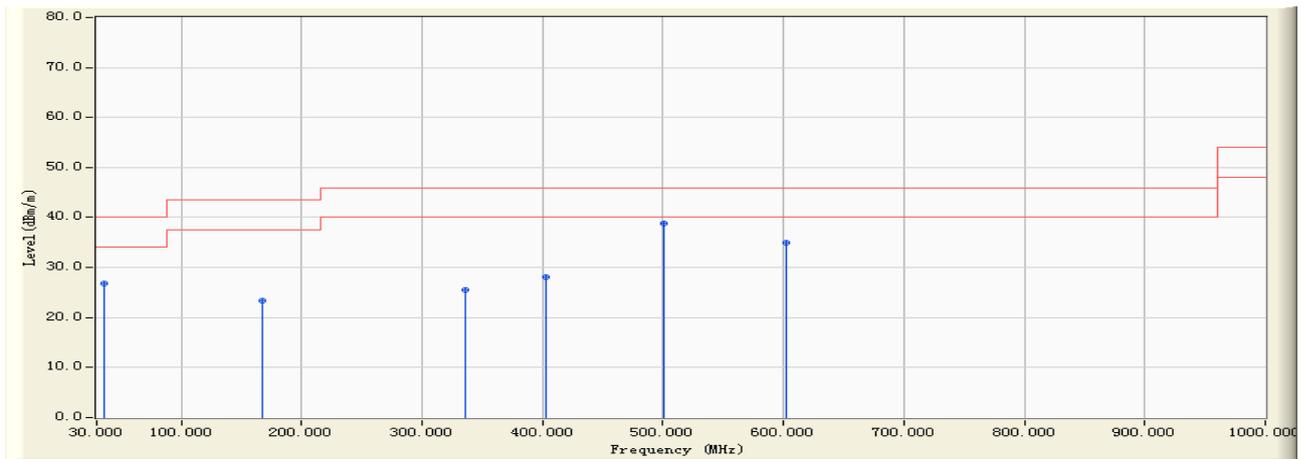
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		31.590	-5.935	38.640	32.705	-7.295	40.000	QUASPEAK
2		167.850	-15.248	48.360	33.112	-10.388	43.500	QUASPEAK
3		211.530	-14.704	43.800	29.097	-14.403	43.500	QUASPEAK
4		401.360	-7.549	38.520	30.971	-15.029	46.000	QUASPEAK
5	*	500.140	-4.811	43.580	38.769	-7.231	46.000	QUASPEAK
6		601.580	-2.684	36.590	33.906	-12.094	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 10:17
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2412MHz)



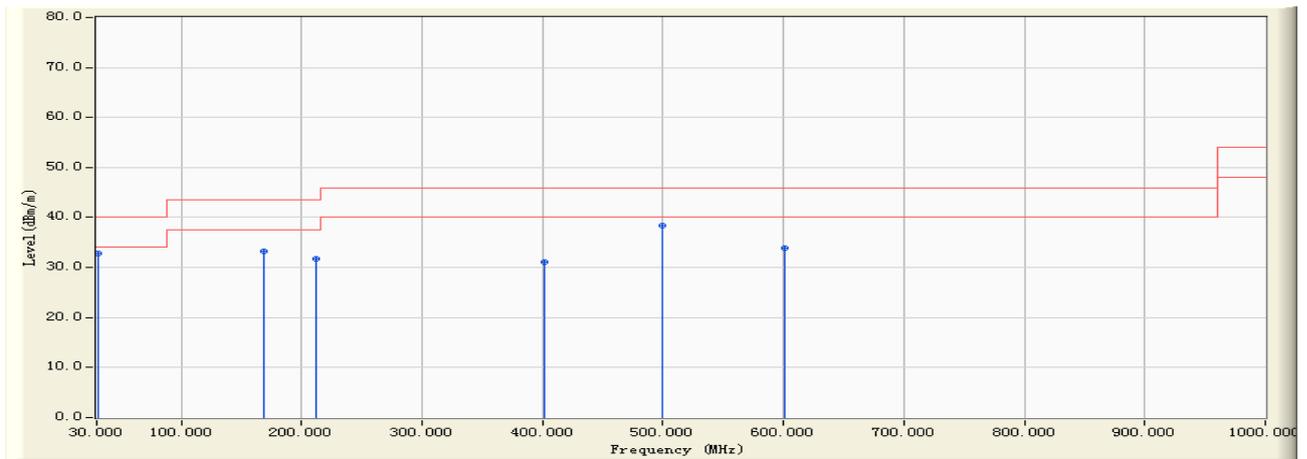
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		35.680	-8.182	35.010	26.828	-13.172	40.000	QUASIPeAK
2		167.890	-15.245	38.540	23.294	-20.206	43.500	QUASIPeAK
3		335.640	-9.754	35.270	25.516	-20.484	46.000	QUASIPeAK
4		402.350	-7.503	35.510	28.007	-17.993	46.000	QUASIPeAK
5	*	500.540	-4.802	43.650	38.848	-7.152	46.000	QUASIPeAK
6		602.590	-2.684	37.620	34.936	-11.064	46.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 10:18
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2412MHz)



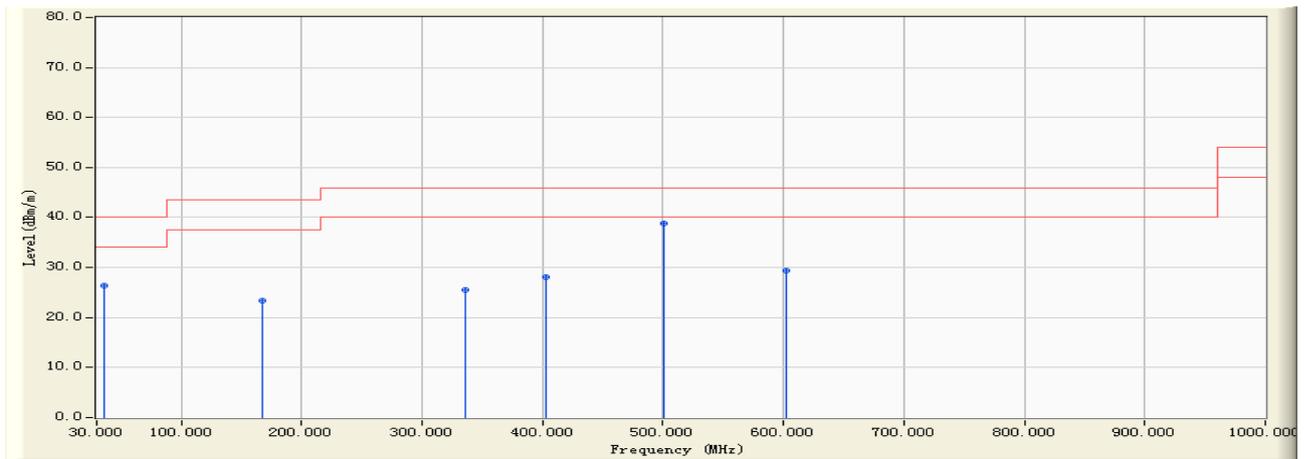
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	31.530	-5.898	38.650	32.752	-7.248	40.000	QUASIPeAK
2		168.590	-15.202	48.360	33.157	-10.343	43.500	QUASIPeAK
3		212.360	-14.670	46.390	31.720	-11.780	43.500	QUASIPeAK
4		401.250	-7.553	38.690	31.137	-14.863	46.000	QUASIPeAK
5		499.360	-4.831	43.210	38.379	-7.621	46.000	QUASIPeAK
6		601.320	-2.678	36.520	33.841	-12.159	46.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 10:19
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2437MHz)



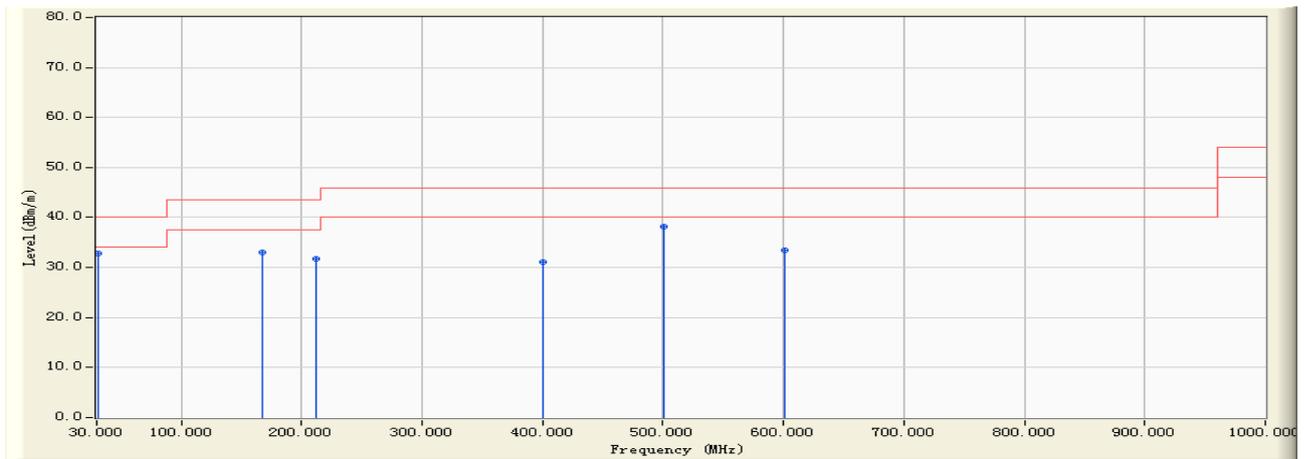
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		36.590	-8.654	35.010	26.356	-13.644	40.000	QUASPEAK
2		167.840	-15.249	38.650	23.401	-20.099	43.500	QUASPEAK
3		335.670	-9.752	35.250	25.498	-20.502	46.000	QUASPEAK
4		402.330	-7.504	35.690	28.186	-17.814	46.000	QUASPEAK
5	*	500.260	-4.809	43.580	38.772	-7.228	46.000	QUASPEAK
6		602.370	-2.695	32.160	29.464	-16.536	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 10:20
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2437MHz)



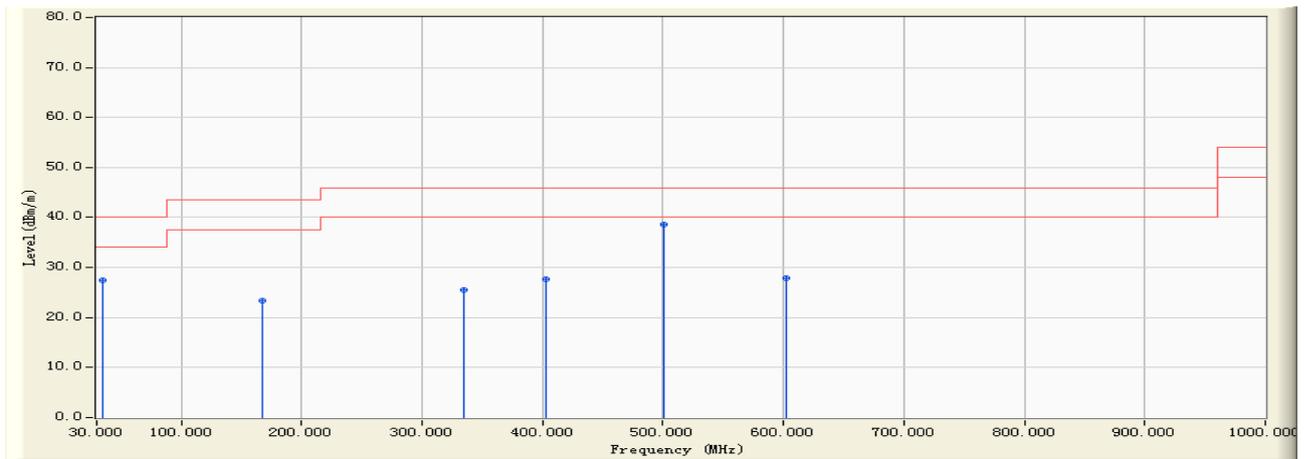
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	31.590	-5.935	38.690	32.755	-7.245	40.000	QUASPEAK
2		167.580	-15.261	48.330	33.069	-10.431	43.500	QUASPEAK
3		211.580	-14.701	46.340	31.639	-11.861	43.500	QUASPEAK
4		400.350	-7.580	38.620	31.040	-14.960	46.000	QUASPEAK
5		500.170	-4.811	43.060	38.249	-7.751	46.000	QUASPEAK
6		601.320	-2.678	36.210	33.531	-12.469	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 10:20
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2462MHz)



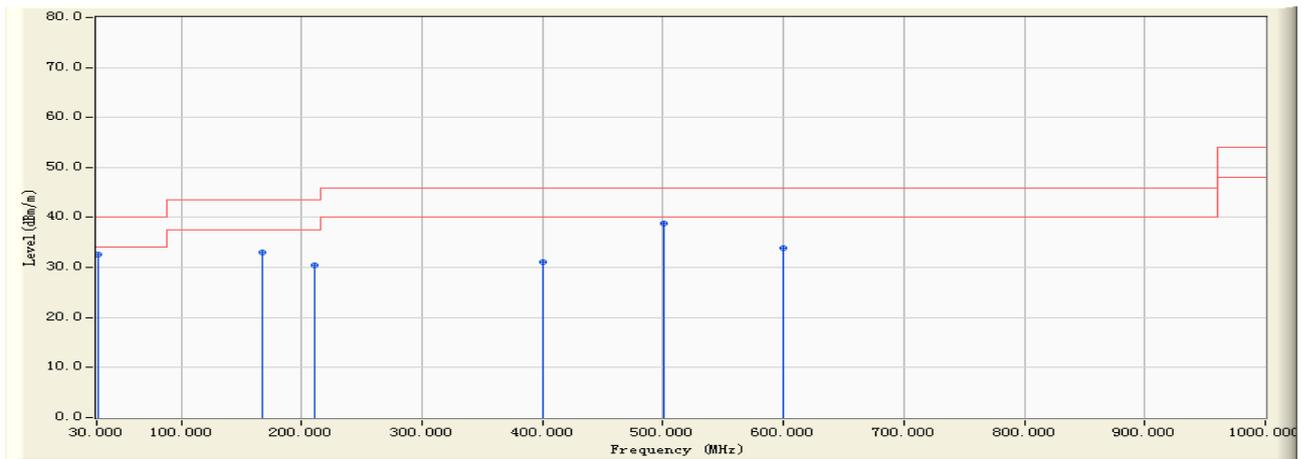
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		34.670	-7.654	35.200	27.546	-12.454	40.000	QUASPEAK
2		167.850	-15.248	38.690	23.442	-20.058	43.500	QUASPEAK
3		335.210	-9.782	35.240	25.458	-20.542	46.000	QUASPEAK
4		402.650	-7.492	35.240	27.748	-18.252	46.000	QUASPEAK
5	*	500.180	-4.811	43.520	38.710	-7.290	46.000	QUASPEAK
6		602.570	-2.685	30.540	27.855	-18.145	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 10:21
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2462MHz)



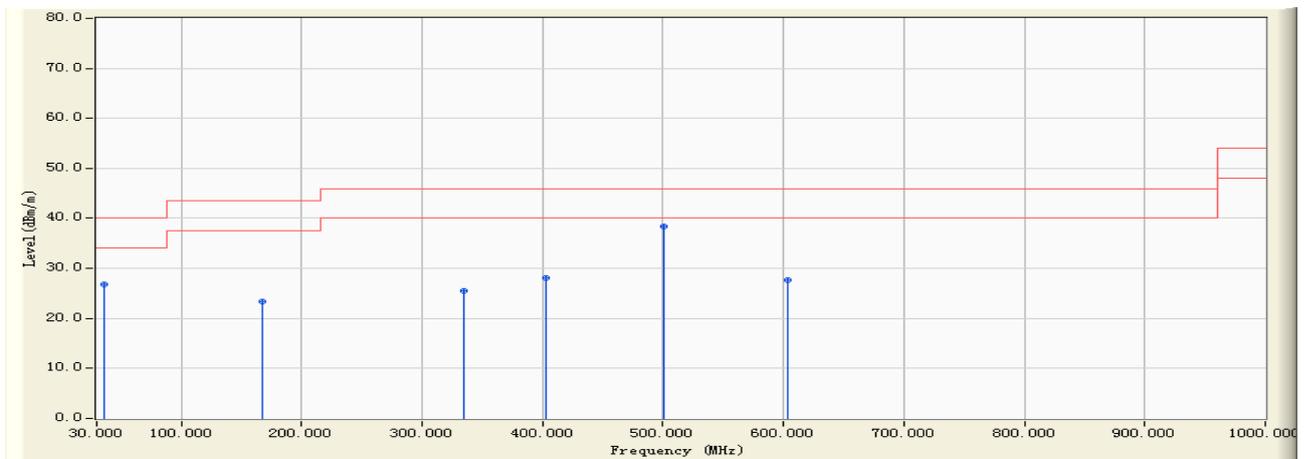
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		31.580	-5.929	38.540	32.611	-7.389	40.000	QUASIPeAK
2		167.540	-15.263	48.390	33.127	-10.373	43.500	QUASIPeAK
3		211.320	-14.711	45.260	30.549	-12.951	43.500	QUASIPeAK
4		400.580	-7.574	38.570	30.997	-15.003	46.000	QUASIPeAK
5	*	500.140	-4.811	43.560	38.749	-7.251	46.000	QUASIPeAK
6		600.250	-2.647	36.590	33.944	-12.056	46.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 10:23
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2412MHz)



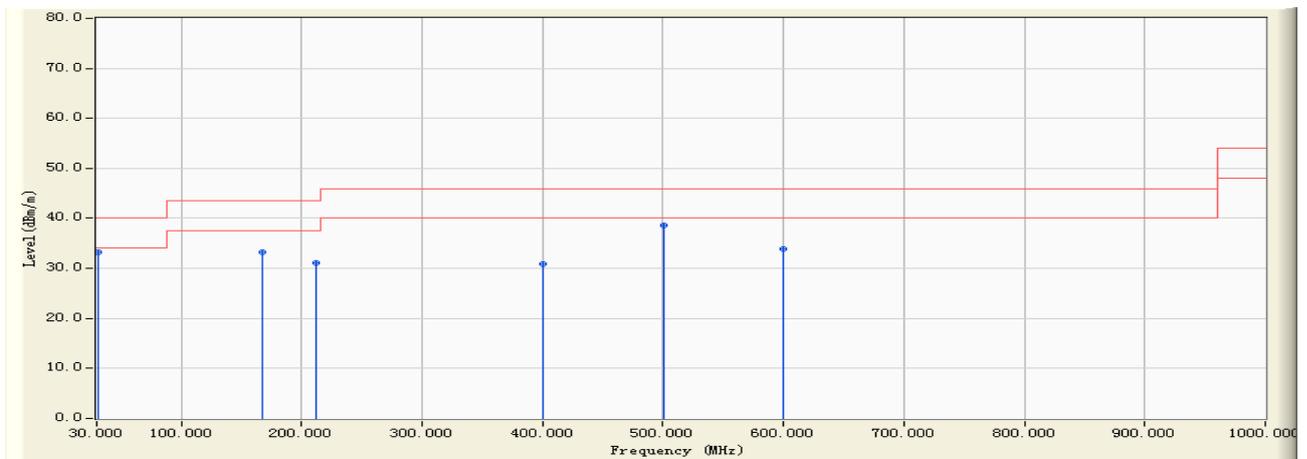
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBUV)	Measure Level (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Detector Type
1		35.690	-8.187	35.020	26.832	-13.168	40.000	QUASPEAK
2		167.590	-15.261	38.560	23.299	-20.201	43.500	QUASPEAK
3		335.250	-9.779	35.240	25.461	-20.539	46.000	QUASPEAK
4		402.330	-7.504	35.670	28.166	-17.834	46.000	QUASPEAK
5	*	500.580	-4.801	43.210	38.409	-7.591	46.000	QUASPEAK
6		602.980	-2.664	30.240	27.576	-18.424	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 10:34
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2412MHz)



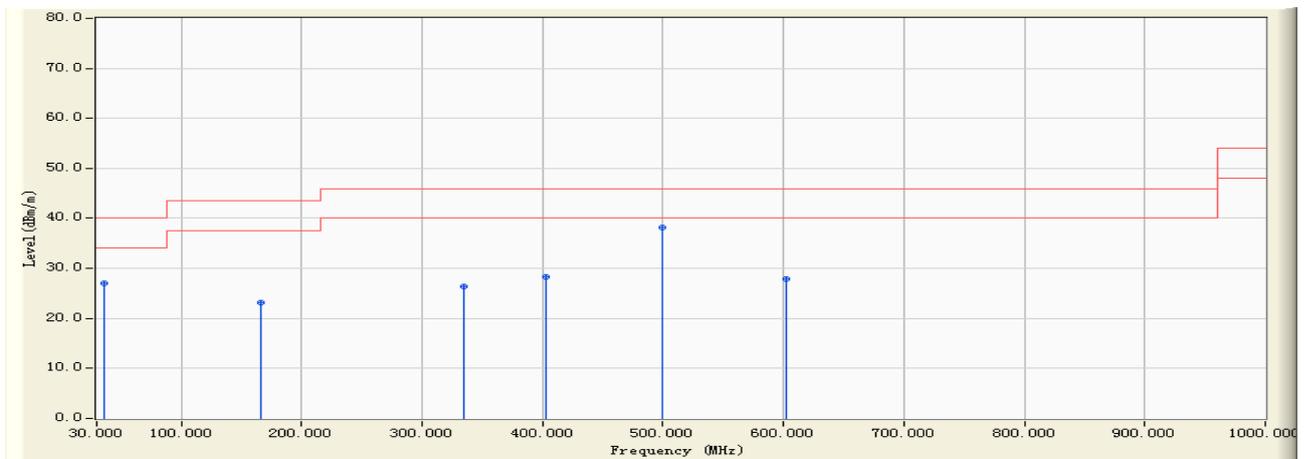
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	31.250	-5.724	38.950	33.226	-6.774	40.000	QUASPEAK
2		167.840	-15.249	48.570	33.321	-10.179	43.500	QUASPEAK
3		211.570	-14.702	45.840	31.138	-12.362	43.500	QUASPEAK
4		400.360	-7.580	38.540	30.960	-15.040	46.000	QUASPEAK
5		500.260	-4.809	43.520	38.712	-7.288	46.000	QUASPEAK
6		600.250	-2.647	36.570	33.924	-12.076	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 10:35
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2437MHz)



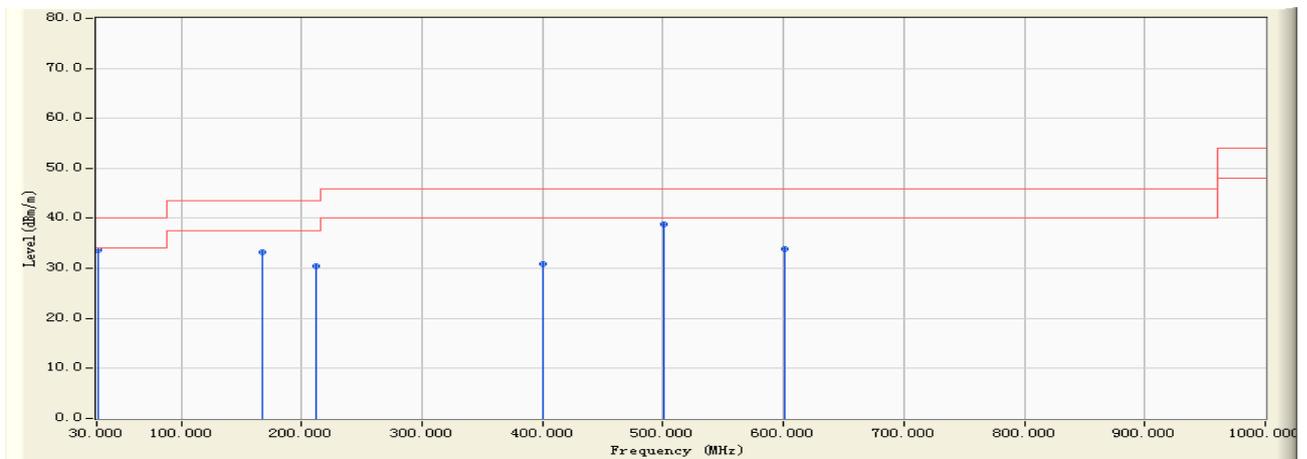
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		35.620	-8.151	35.120	26.969	-13.031	40.000	QUASPEAK
2		166.350	-15.314	38.540	23.226	-20.274	43.500	QUASPEAK
3		334.560	-9.821	36.120	26.298	-19.702	46.000	QUASPEAK
4		402.560	-7.495	35.860	28.365	-17.635	46.000	QUASPEAK
5	*	500.130	-4.811	42.980	38.168	-7.832	46.000	QUASPEAK
6		602.350	-2.697	30.510	27.813	-18.187	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 22:18
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2437MHz)



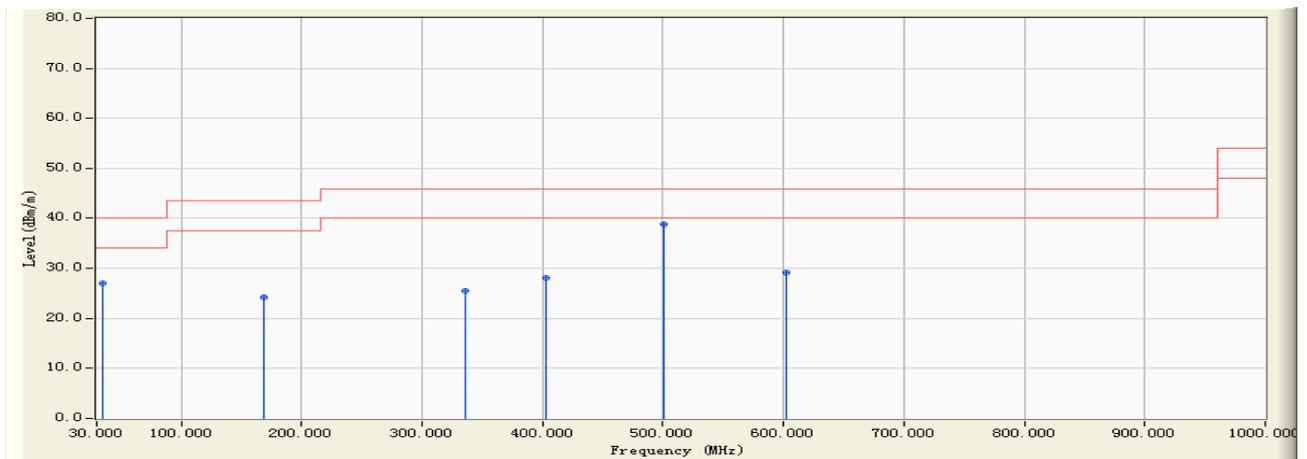
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	31.630	-5.960	39.530	33.570	-6.430	40.000	QUASPEAK
2		167.530	-15.263	48.520	33.257	-10.243	43.500	QUASPEAK
3		211.630	-14.700	45.160	30.461	-13.039	43.500	QUASPEAK
4		400.340	-7.580	38.570	30.990	-15.010	46.000	QUASPEAK
5		500.590	-4.801	43.580	38.779	-7.221	46.000	QUASPEAK
6		601.580	-2.684	36.530	33.846	-12.154	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 22:19
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2462MHz)



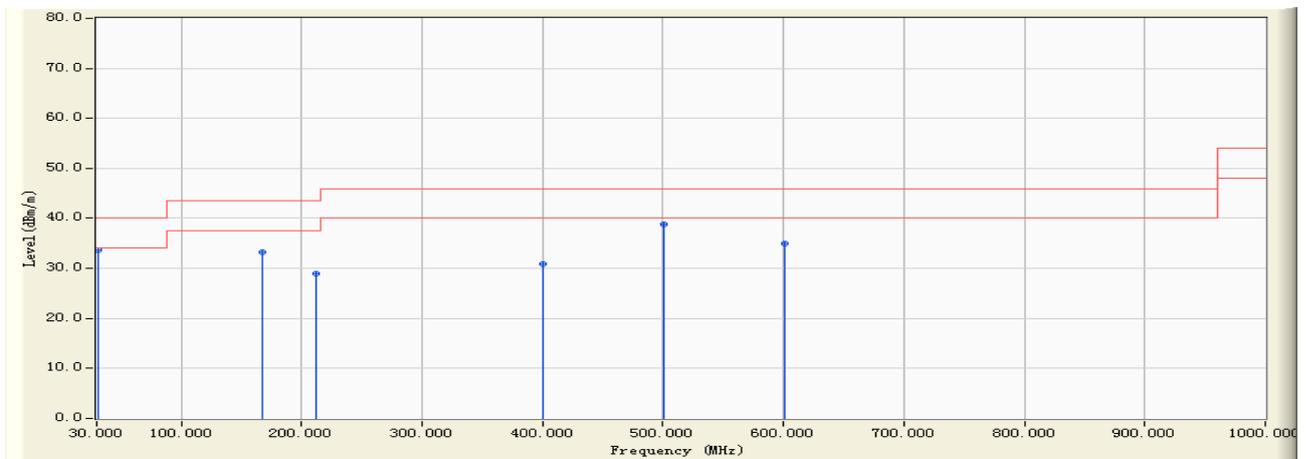
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		35.480	-8.078	35.120	27.043	-12.957	40.000	QUASPEAK
2		168.590	-15.202	39.530	24.327	-19.173	43.500	QUASPEAK
3		335.630	-9.755	35.243	25.488	-20.512	46.000	QUASPEAK
4		402.540	-7.495	35.680	28.185	-17.815	46.000	QUASPEAK
5	*	500.480	-4.804	43.560	38.757	-7.243	46.000	QUASPEAK
6		602.540	-2.687	31.840	29.153	-16.847	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 22:20
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2462MHz)



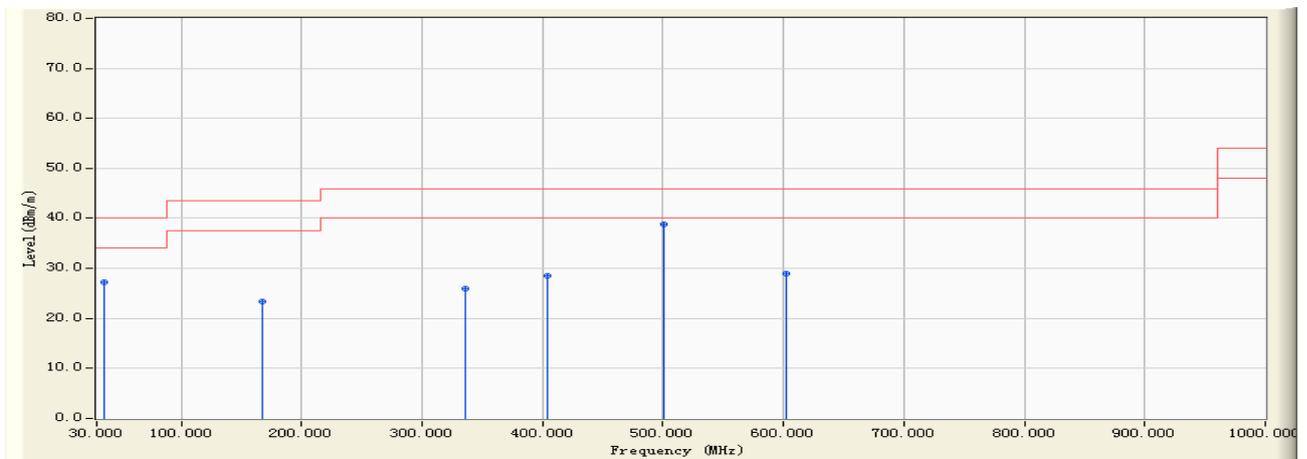
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	31.530	-5.898	39.620	33.722	-6.278	40.000	QUASPEAK
2		167.530	-15.263	48.510	33.247	-10.253	43.500	QUASPEAK
3		212.630	-14.659	43.590	28.931	-14.569	43.500	QUASPEAK
4		400.870	-7.565	38.540	30.976	-15.024	46.000	QUASPEAK
5		500.630	-4.800	43.580	38.780	-7.220	46.000	QUASPEAK
6		601.580	-2.684	37.540	34.856	-11.144	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 22:21
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2422MHz)



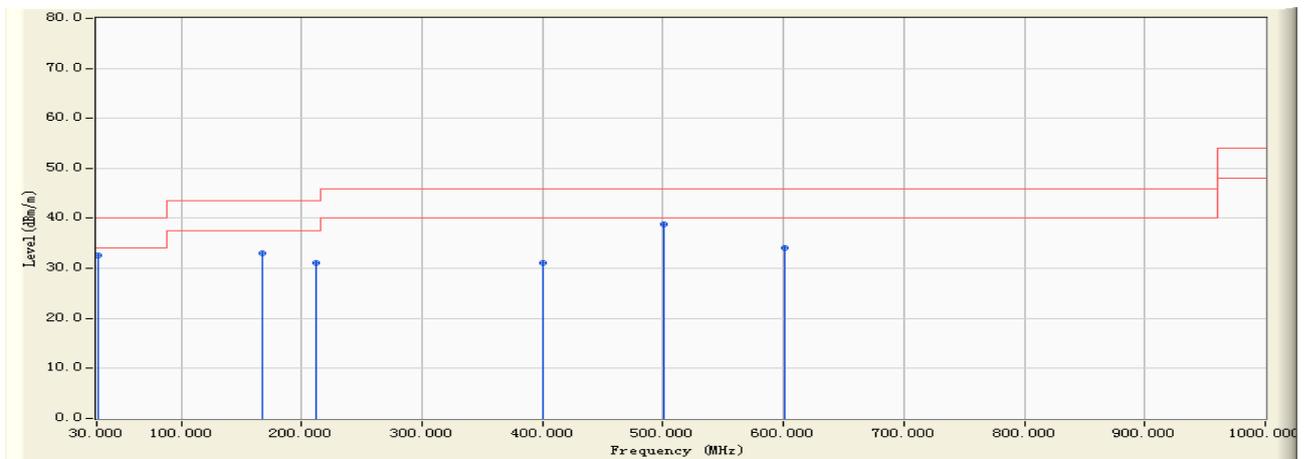
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBUV)	Measure Level (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Detector Type
1		35.680	-8.182	35.390	27.208	-12.792	40.000	QUASPEAK
2		167.890	-15.245	38.540	23.294	-20.206	43.500	QUASPEAK
3		335.680	-9.752	35.640	25.888	-20.112	46.000	QUASPEAK
4		403.530	-7.469	35.940	28.471	-17.529	46.000	QUASPEAK
5	*	500.540	-4.802	43.580	38.778	-7.222	46.000	QUASPEAK
6		602.350	-2.697	31.570	28.873	-17.127	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 22:21
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2422MHz)



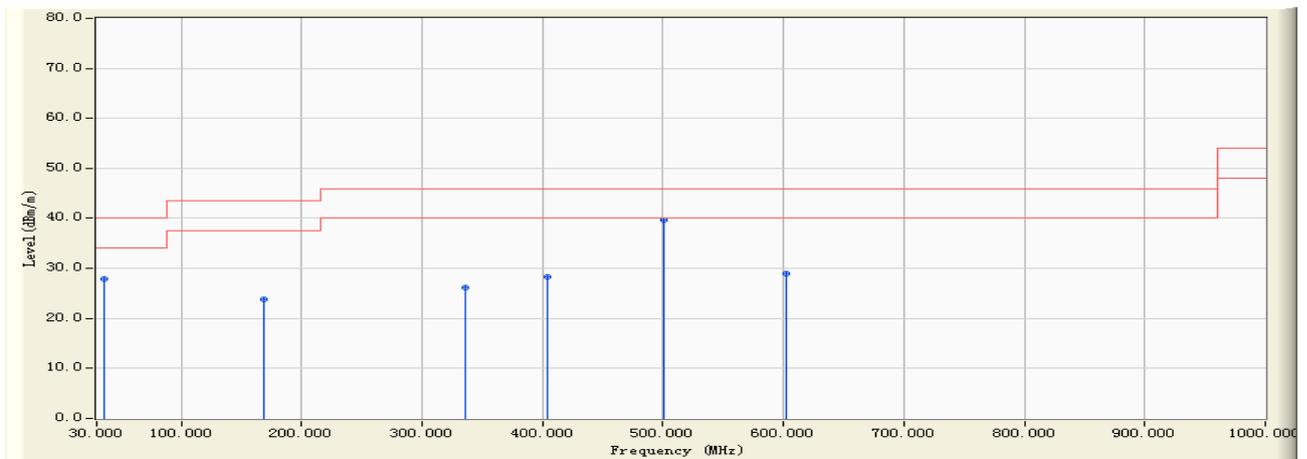
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		31.580	-5.929	38.540	32.611	-7.389	40.000	QUASPEAK
2		167.890	-15.245	48.370	33.124	-10.376	43.500	QUASPEAK
3		212.650	-14.658	45.850	31.192	-12.308	43.500	QUASPEAK
4		400.350	-7.580	38.690	31.110	-14.890	46.000	QUASPEAK
5	*	500.540	-4.802	43.570	38.768	-7.232	46.000	QUASPEAK
6		601.580	-2.684	36.840	34.156	-11.844	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 22:22
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2437MHz)



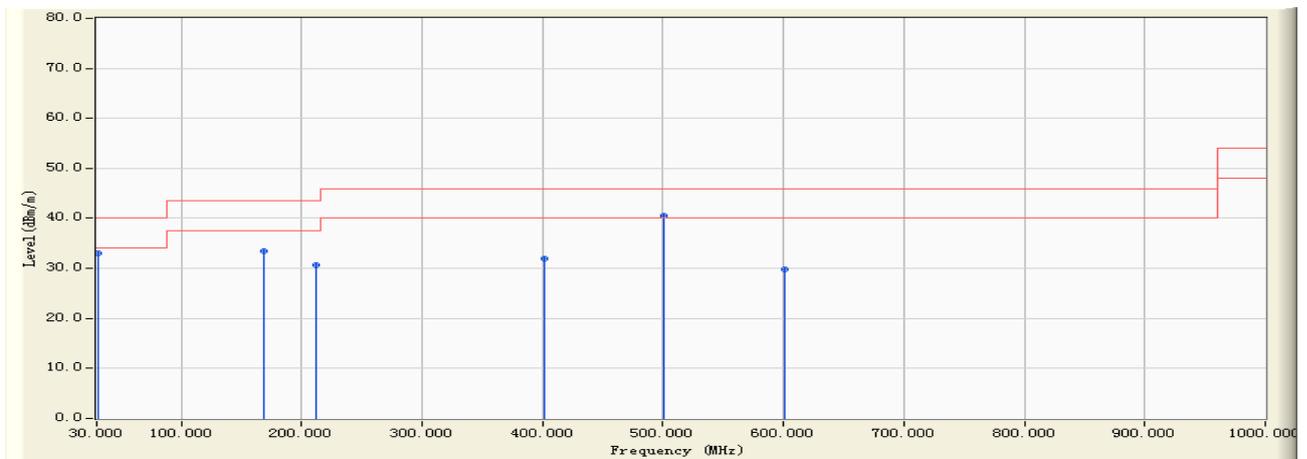
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBUV)	Measure Level (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Detector Type
1		35.630	-8.156	35.940	27.784	-12.216	40.000	QUASPEAK
2		168.650	-15.200	38.940	23.741	-19.759	43.500	QUASPEAK
3		335.640	-9.754	35.840	26.086	-19.914	46.000	QUASPEAK
4		403.510	-7.469	35.840	28.371	-17.629	46.000	QUASPEAK
5	*	500.510	-4.802	44.580	39.777	-6.223	46.000	QUASPEAK
6		601.840	-2.690	31.580	28.890	-17.110	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 22:23
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2437MHz)



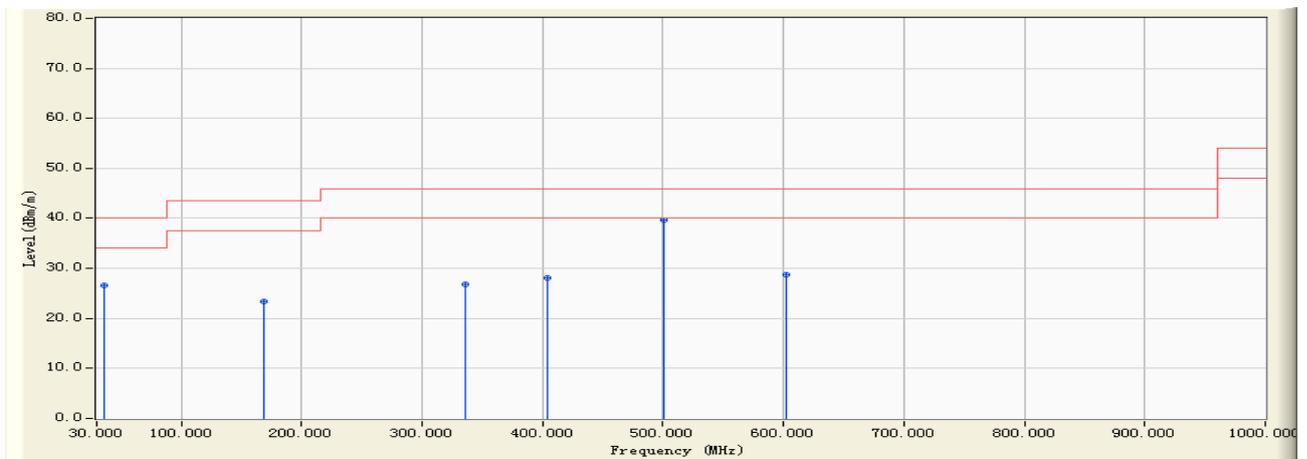
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		31.530	-5.898	38.940	33.042	-6.958	40.000	QUASPEAK
2		168.590	-15.202	48.750	33.547	-9.953	43.500	QUASPEAK
3		211.560	-14.702	45.340	30.638	-12.862	43.500	QUASPEAK
4		401.580	-7.540	39.510	31.970	-14.030	46.000	QUASPEAK
5	*	500.480	-4.804	45.310	40.507	-5.493	46.000	QUASPEAK
6		601.590	-2.684	32.560	29.876	-16.124	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 22:24
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2452MHz)



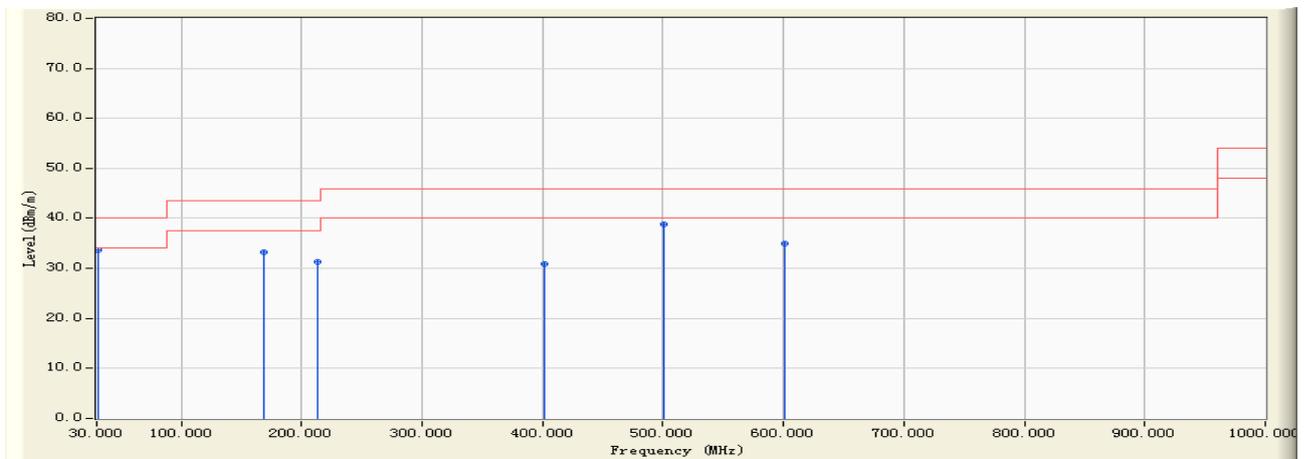
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		35.690	-8.187	34.730	26.542	-13.458	40.000	QUASPEAK
2		168.540	-15.206	38.670	23.464	-20.036	43.500	QUASPEAK
3		335.610	-9.756	36.510	26.753	-19.247	46.000	QUASPEAK
4		403.520	-7.469	35.640	28.171	-17.829	46.000	QUASPEAK
5	*	500.540	-4.802	44.580	39.778	-6.222	46.000	QUASPEAK
6		602.330	-2.698	31.520	28.822	-17.178	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC102	Time : 2010/10/12 - 22:24
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Home Gateway	Probe : HL562(30-1000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2452MHz)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	31.580	-5.929	39.510	33.581	-6.419	40.000	QUASPEAK
2		168.530	-15.207	48.510	33.303	-10.197	43.500	QUASPEAK
3		213.560	-14.622	45.980	31.358	-12.142	43.500	QUASPEAK
4		401.350	-7.549	38.510	30.961	-15.039	46.000	QUASPEAK
5		500.140	-4.811	43.580	38.769	-7.231	46.000	QUASPEAK
6		601.590	-2.684	37.540	34.856	-11.144	46.000	QUASPEAK

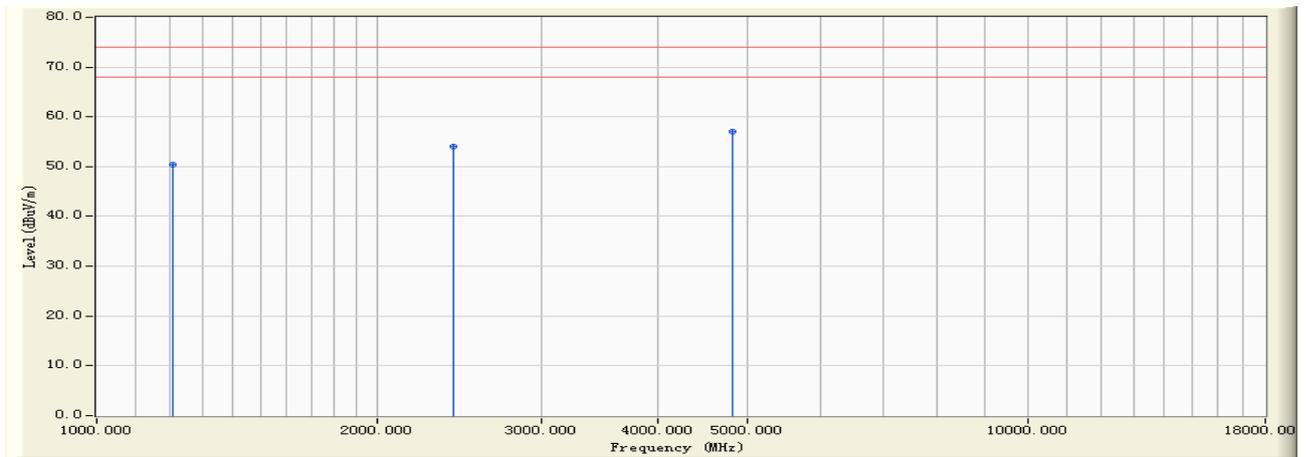
Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Above 1GHz:

Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:12
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2412MHz)



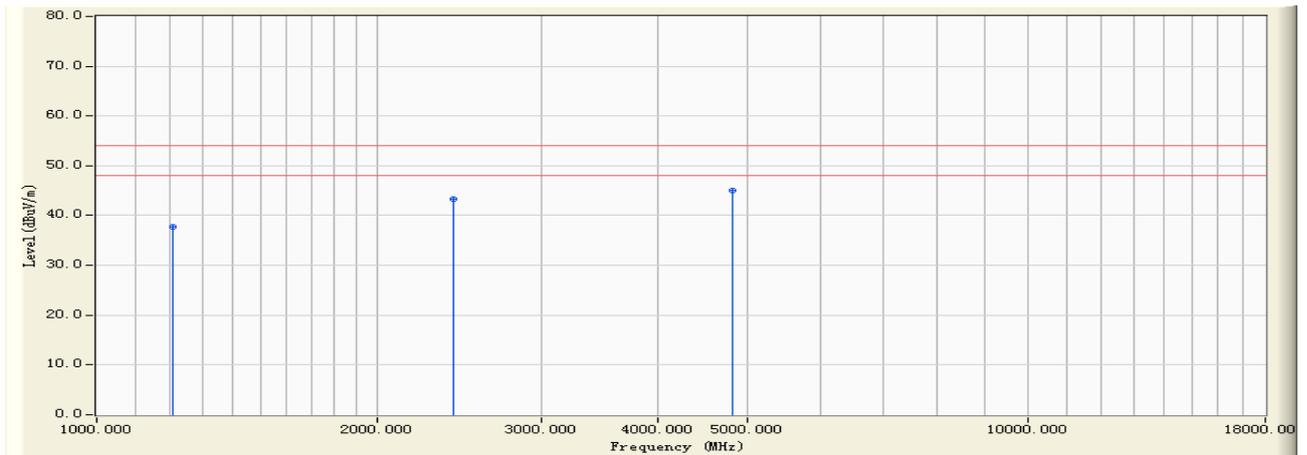
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1208.390	-5.874	56.350	50.477	-23.523	74.000	PEAK
2		2412.150	0.428	53.580	54.009	-19.991	74.000	PEAK
3	*	4825.370	7.350	49.680	57.031	-16.969	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:12
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2412MHz)



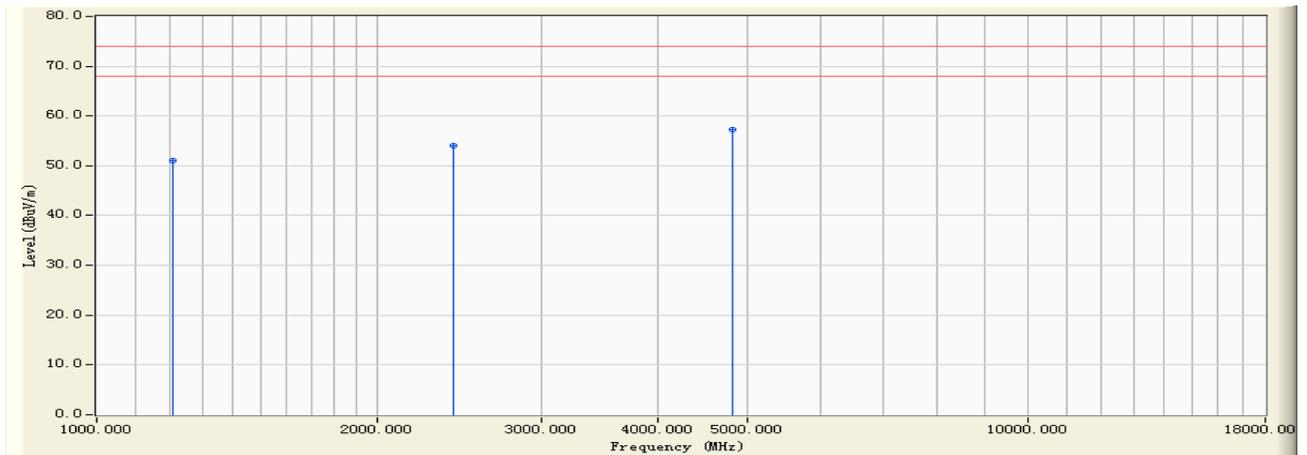
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1208.390	-5.874	43.580	37.707	-16.293	54.000	AVERAGE
2		2412.150	0.428	42.960	43.389	-10.611	54.000	AVERAGE
3	*	4825.370	7.350	37.590	44.941	-9.059	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:13
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2412MHz)



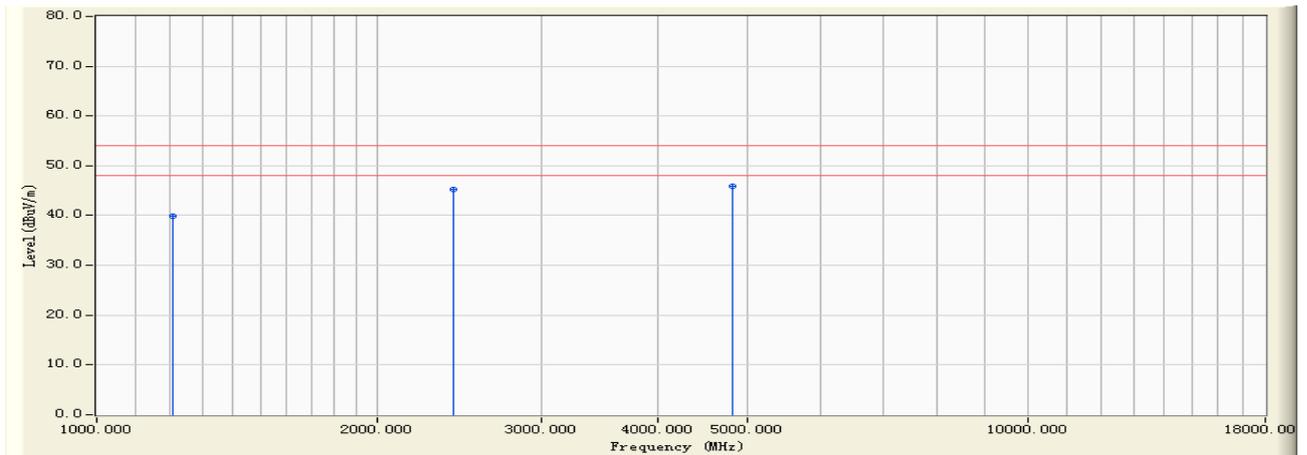
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.980	-5.877	56.950	51.073	-22.927	74.000	PEAK
2		2412.350	0.429	53.570	54.000	-20.000	74.000	PEAK
3	*	4825.390	7.350	49.870	57.221	-16.779	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:13
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2412MHz)



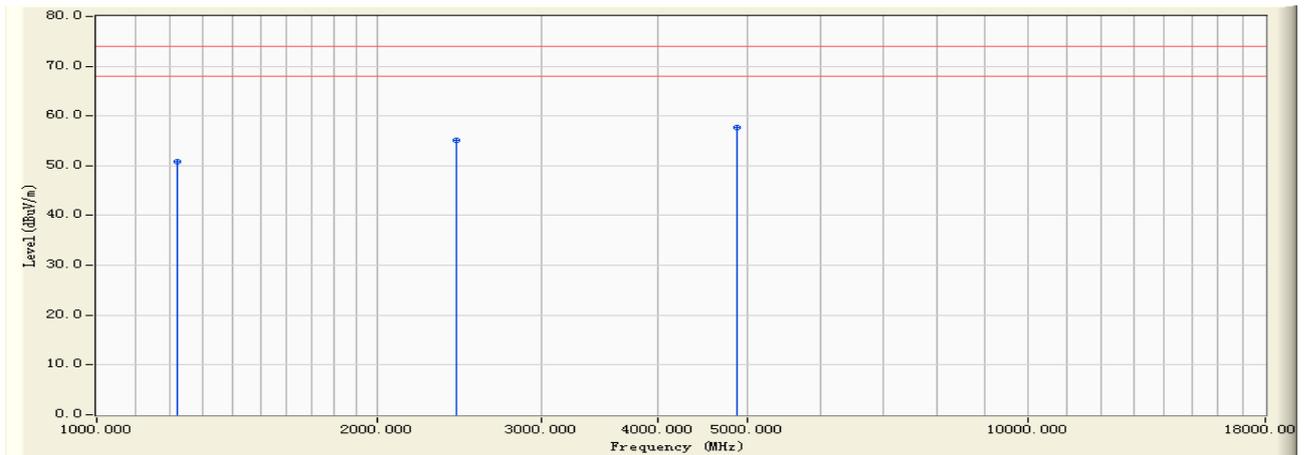
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.980	-5.877	45.850	39.973	-14.027	54.000	AVERAGE
2		2412.350	0.429	44.850	45.280	-8.720	54.000	AVERAGE
3	*	4825.390	7.350	38.570	45.921	-8.079	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:14
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2437MHz)



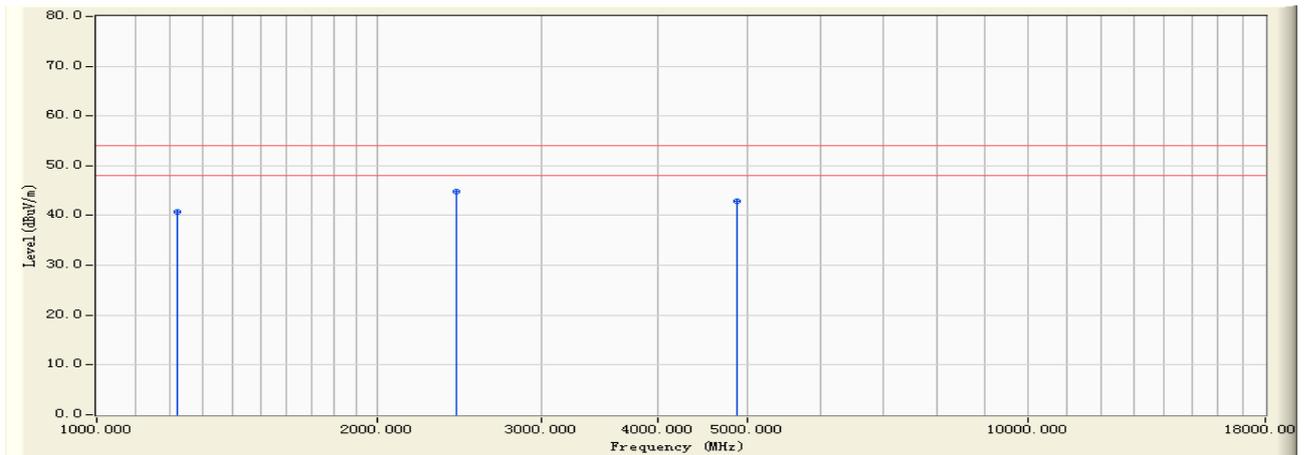
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.860	-5.752	56.540	50.787	-23.213	74.000	PEAK
2		2437.510	0.510	54.510	55.021	-18.979	74.000	PEAK
3	*	4876.570	7.462	50.140	57.602	-16.398	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:14
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2437MHz)



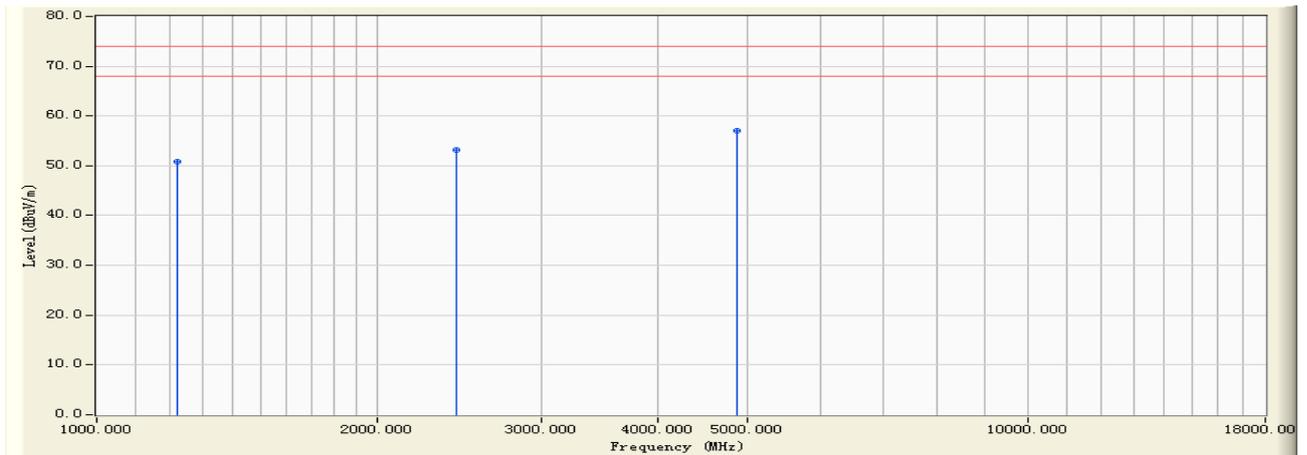
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.860	-5.752	46.580	40.827	-13.173	54.000	AVERAGE
2	*	2437.510	0.510	44.310	44.821	-9.179	54.000	AVERAGE
3		4876.570	7.462	35.470	42.932	-11.068	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:15
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2437MHz)



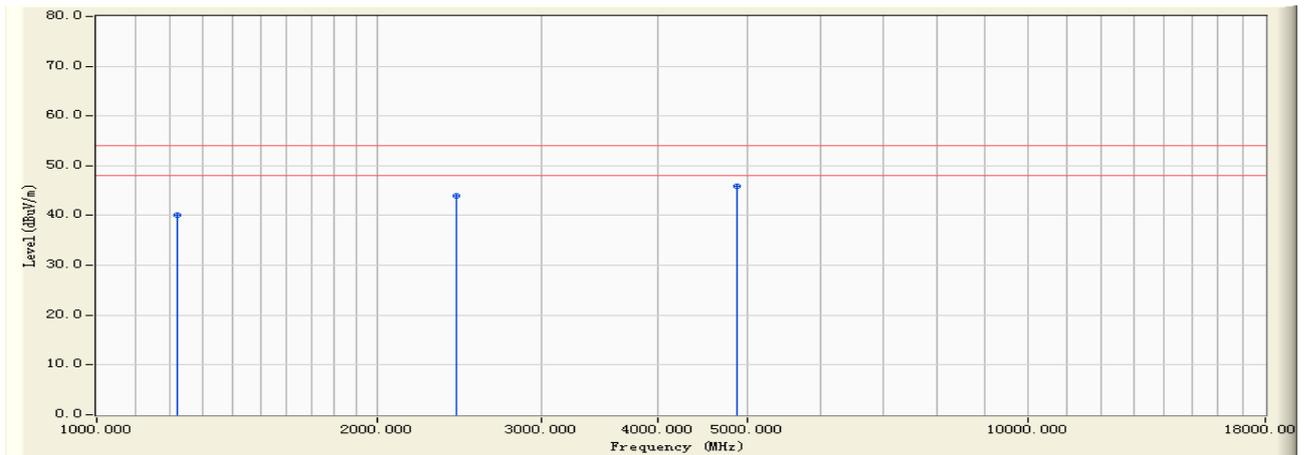
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1220.350	-5.748	56.570	50.822	-23.178	74.000	PEAK
2		2437.040	0.509	52.680	53.189	-20.811	74.000	PEAK
3	*	4876.960	7.464	49.580	57.043	-16.957	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:15
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2437MHz)



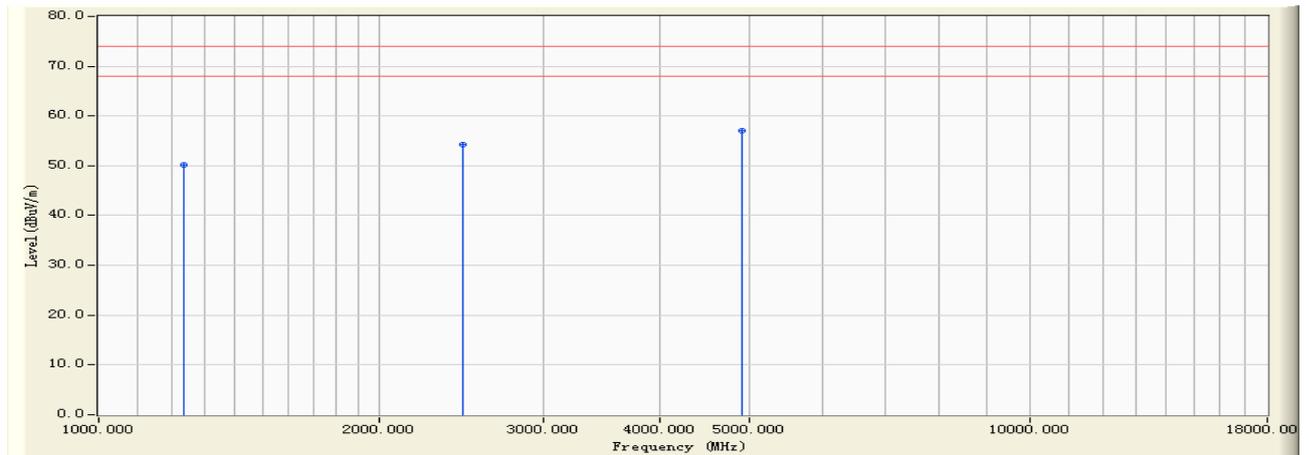
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1220.350	-5.748	45.850	40.102	-13.898	54.000	AVERAGE
2		2437.040	0.509	43.560	44.069	-9.931	54.000	AVERAGE
3	*	4876.960	7.464	38.540	46.003	-7.997	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:16
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2462MHz)



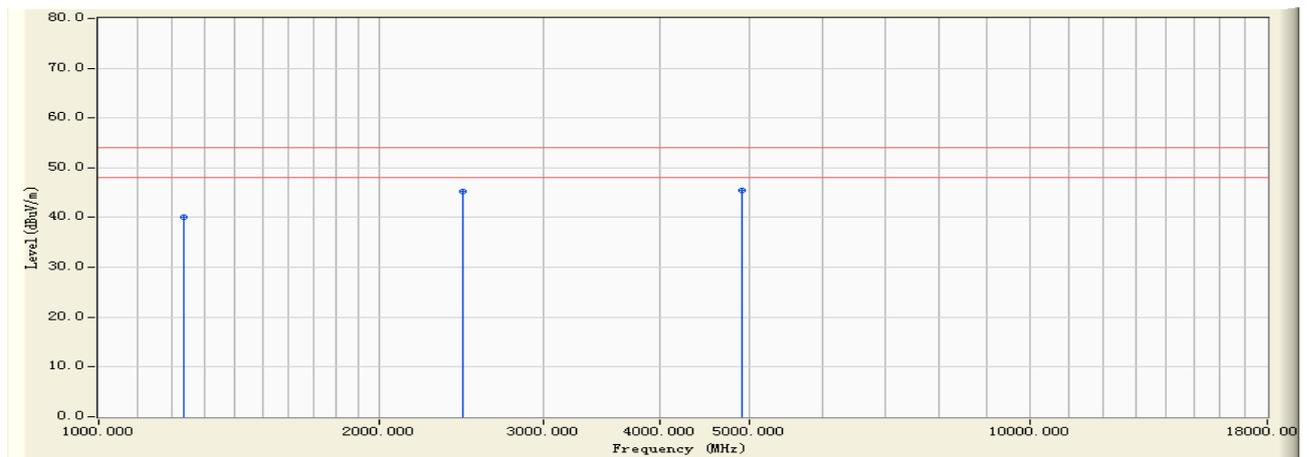
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1233.520	-5.602	55.850	50.249	-23.751	74.000	PEAK
2		2462.570	0.601	53.560	54.161	-19.839	74.000	PEAK
3	*	4905.820	7.527	49.570	57.097	-16.903	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:16
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2462MHz)



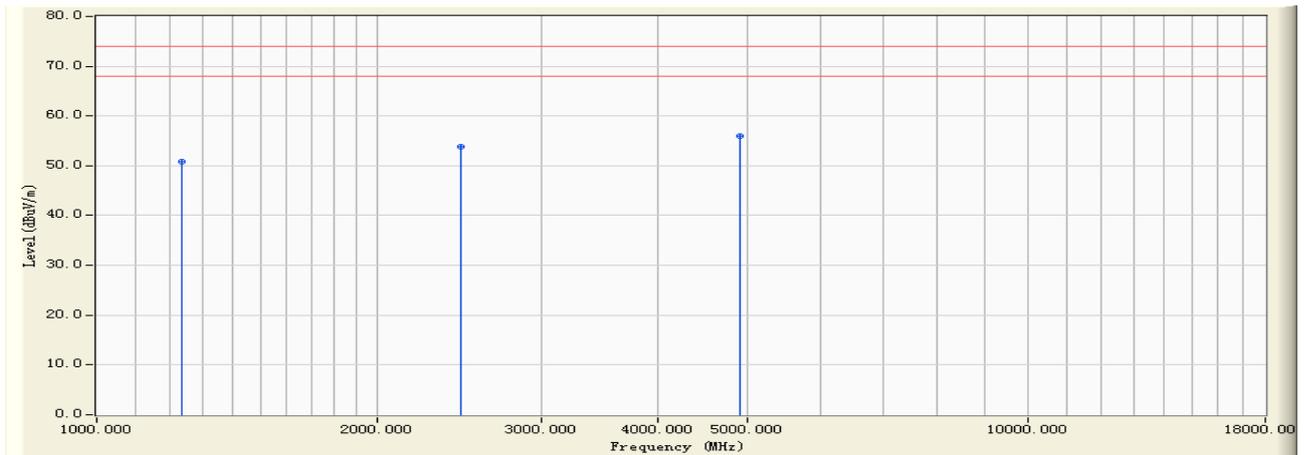
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1233.520	-5.602	45.680	40.079	-13.921	54.000	AVERAGE
2		2462.570	0.601	44.560	45.161	-8.839	54.000	AVERAGE
3	*	4905.820	7.527	37.950	45.477	-8.523	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:17
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2462MHz)



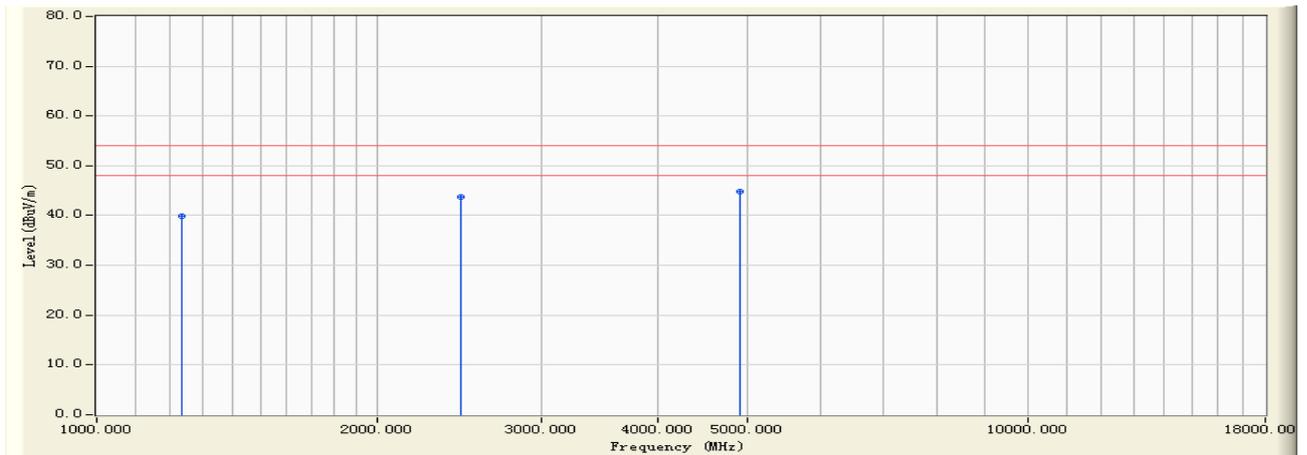
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1232.520	-5.613	56.340	50.727	-23.273	74.000	PEAK
2		2462.350	0.601	53.240	53.841	-20.159	74.000	PEAK
3	*	4906.360	7.529	48.530	56.058	-17.942	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:17
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2462MHz)



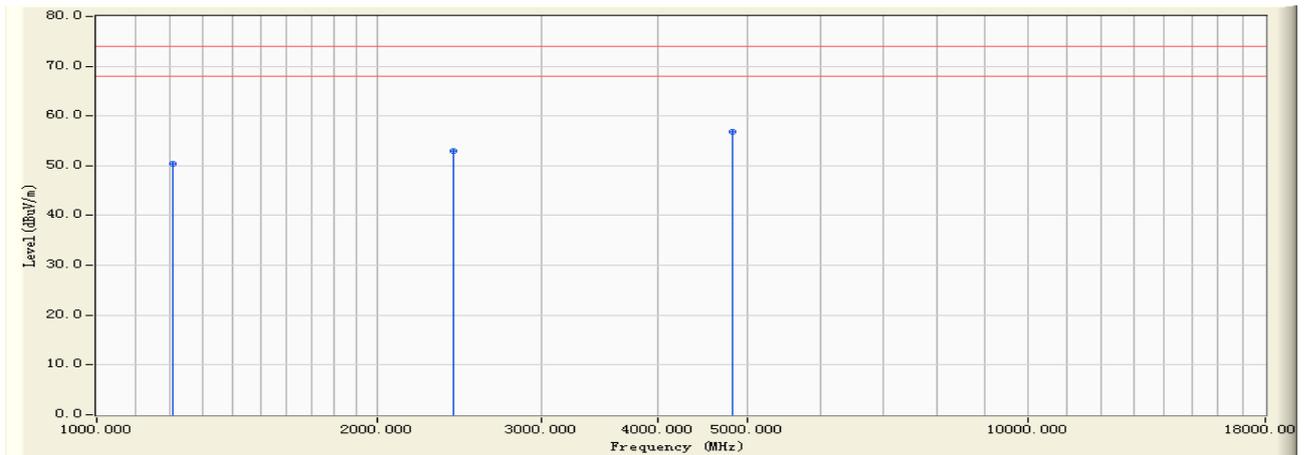
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1232.520	-5.613	45.570	39.957	-14.043	54.000	AVERAGE
2		2462.350	0.601	43.120	43.721	-10.279	54.000	AVERAGE
3	*	4906.360	7.529	37.240	44.768	-9.232	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:19
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2412MHz)



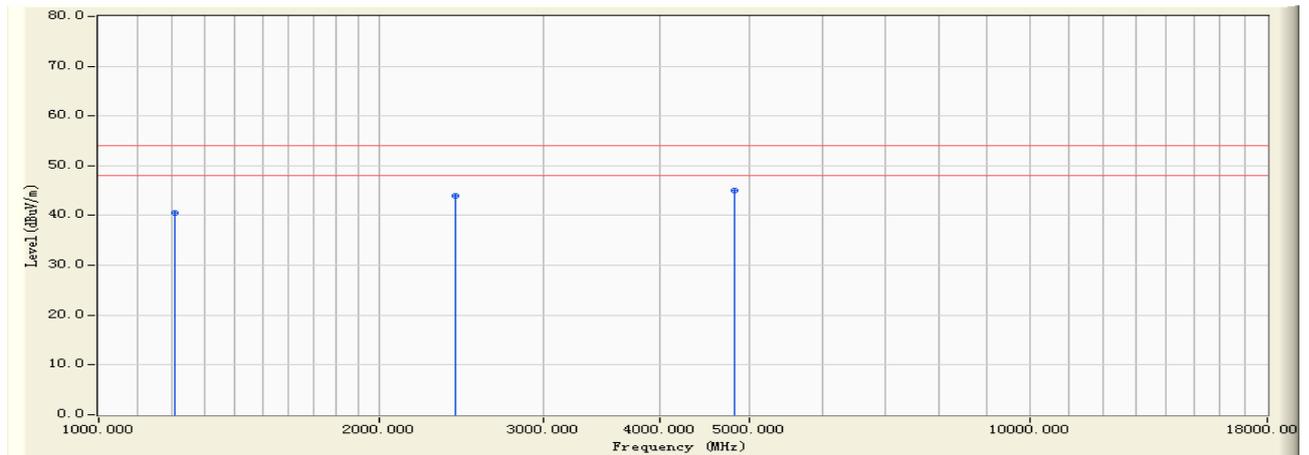
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.850	-5.878	56.340	50.461	-23.539	74.000	PEAK
2		2412.360	0.429	52.570	53.000	-21.000	74.000	PEAK
3	*	4825.670	7.352	49.540	56.891	-17.109	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:19
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2412MHz)



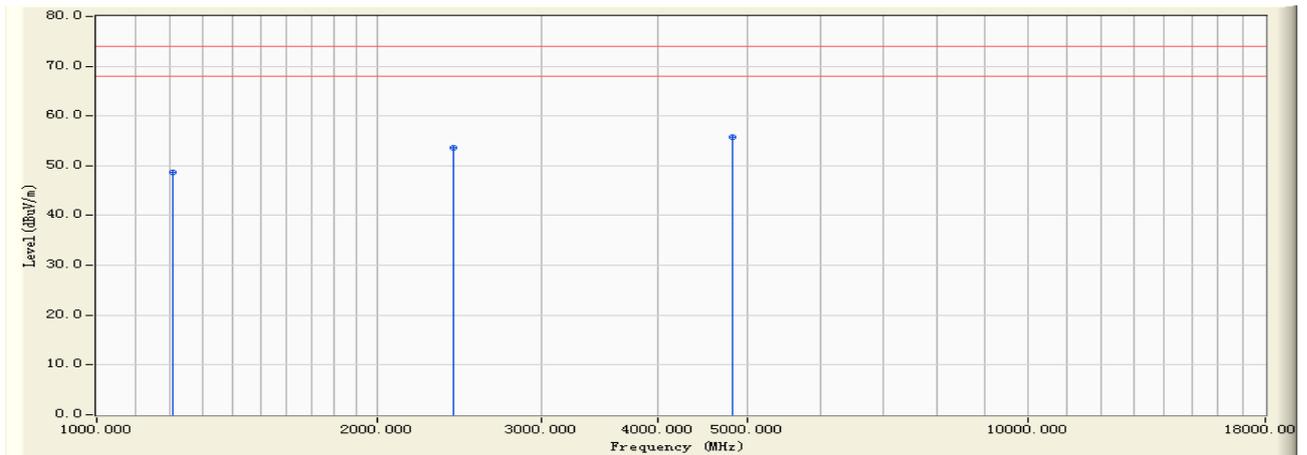
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.850	-5.878	46.320	40.441	-13.559	54.000	AVERAGE
2		2412.360	0.429	43.580	44.010	-9.990	54.000	AVERAGE
3	*	4825.670	7.352	37.630	44.981	-9.019	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:20
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2412MHz)



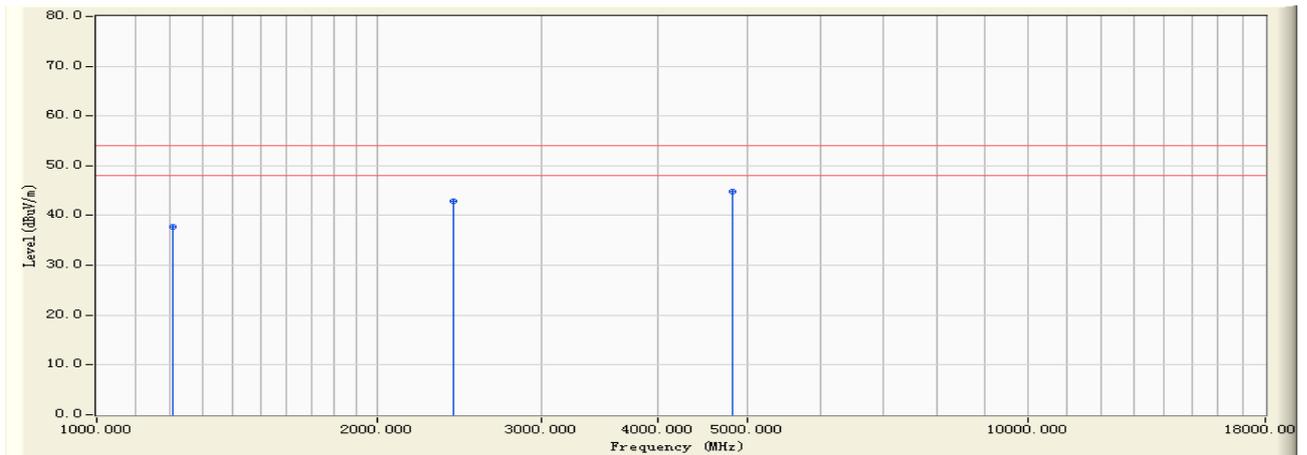
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1206.960	-5.889	54.680	48.792	-25.208	74.000	PEAK
2		2412.580	0.430	53.240	53.670	-20.330	74.000	PEAK
3	*	4825.640	7.352	48.370	55.721	-18.279	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:20
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2412MHz)



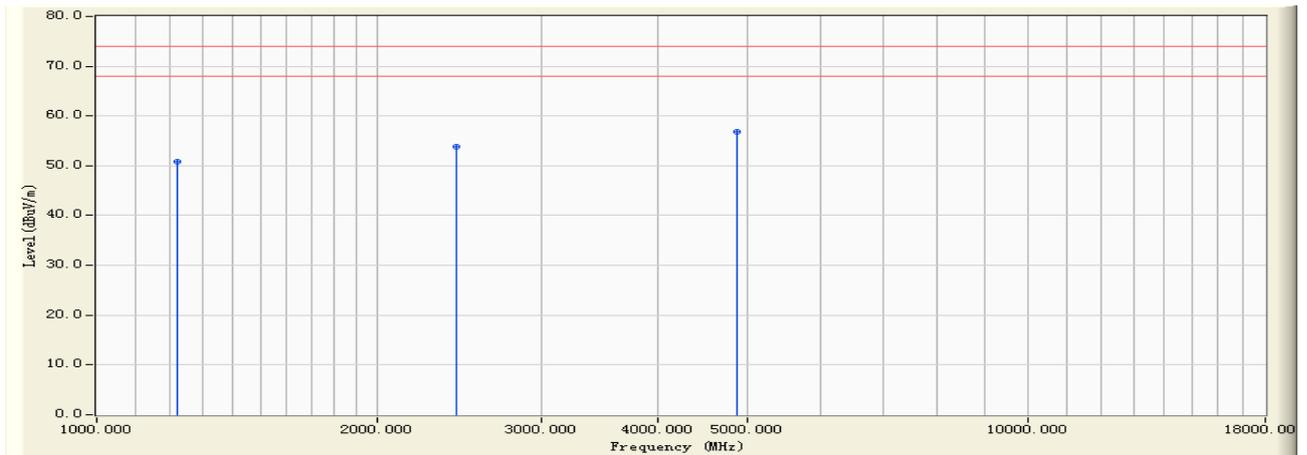
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1206.960	-5.889	43.580	37.692	-16.308	54.000	AVERAGE
2		2412.580	0.430	42.570	43.000	-11.000	54.000	AVERAGE
3	*	4825.640	7.352	37.540	44.891	-9.109	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:22
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2437MHz)



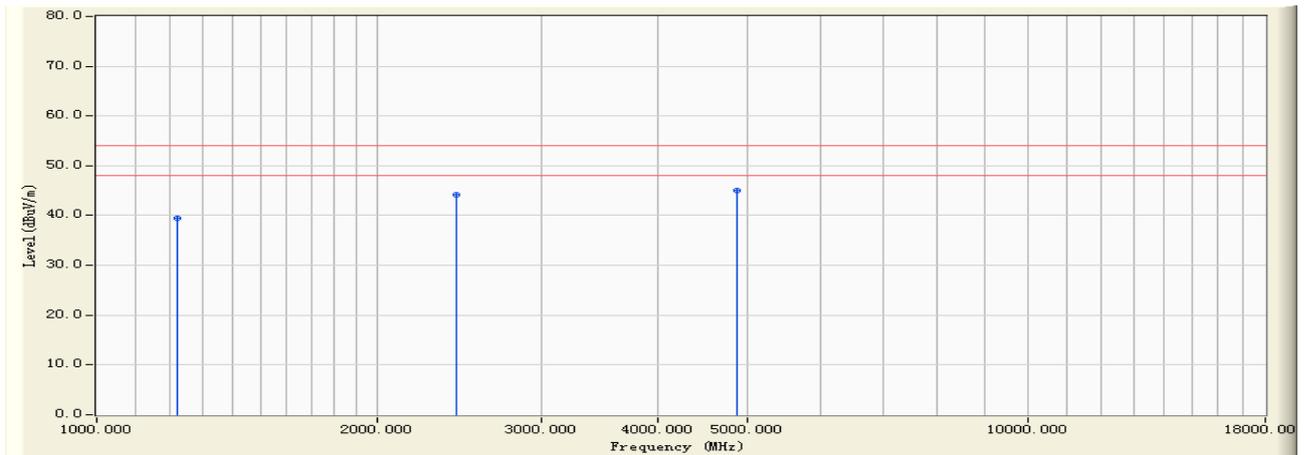
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1221.360	-5.737	56.520	50.783	-23.217	74.000	PEAK
2		2437.520	0.510	53.270	53.781	-20.219	74.000	PEAK
3	*	4876.540	7.462	49.310	56.772	-17.228	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:22
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2437MHz)



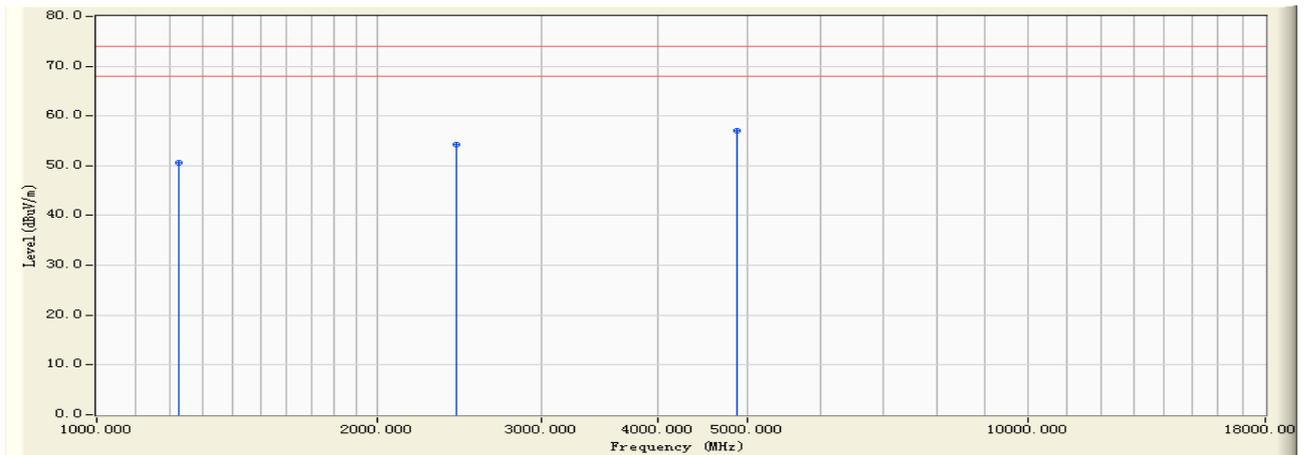
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1221.360	-5.737	45.250	39.513	-14.487	54.000	AVERAGE
2		2437.520	0.510	43.680	44.191	-9.809	54.000	AVERAGE
3	*	4876.540	7.462	37.540	45.002	-8.998	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:23
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2437MHz)



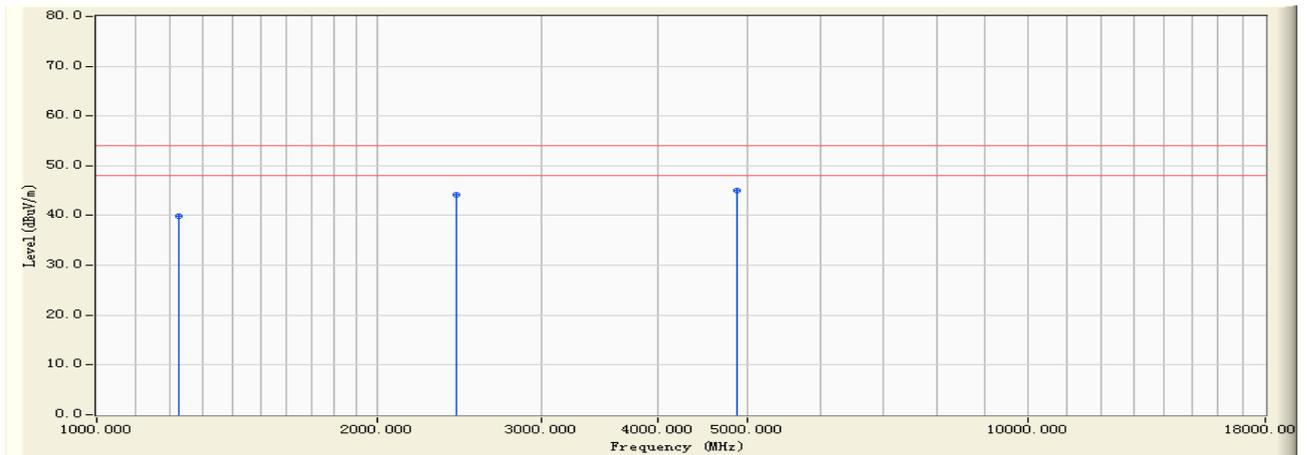
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1223.580	-5.713	56.320	50.607	-23.393	74.000	PEAK
2		2437.560	0.510	53.680	54.191	-19.809	74.000	PEAK
3	*	4875.680	7.461	49.510	56.970	-17.030	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:23
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2437MHz)



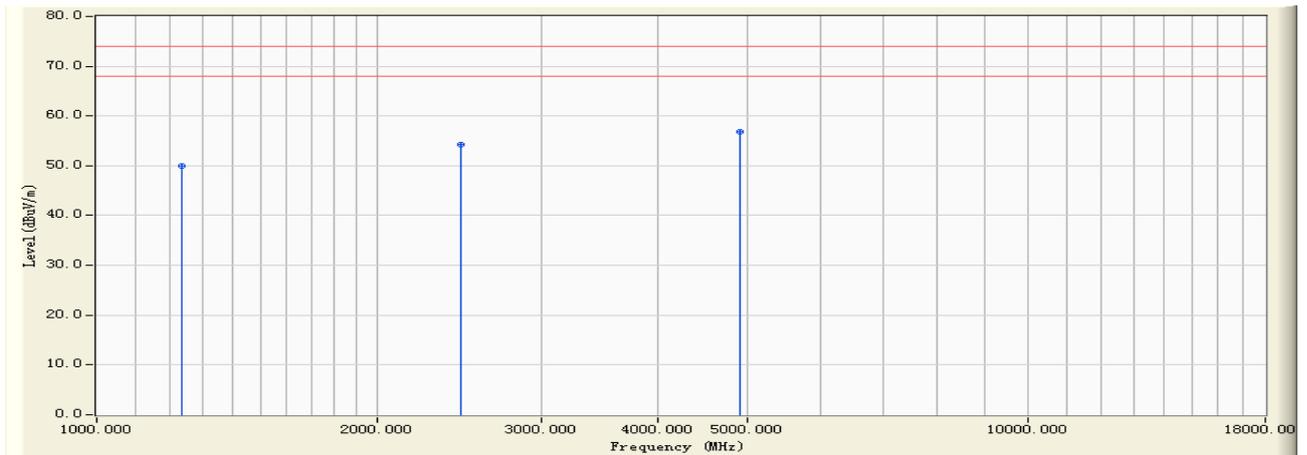
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1223.580	-5.713	45.570	39.857	-14.143	54.000	AVERAGE
2		2437.560	0.510	43.570	44.081	-9.919	54.000	AVERAGE
3	*	4875.680	7.461	37.560	45.020	-8.980	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:24
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2462MHz)



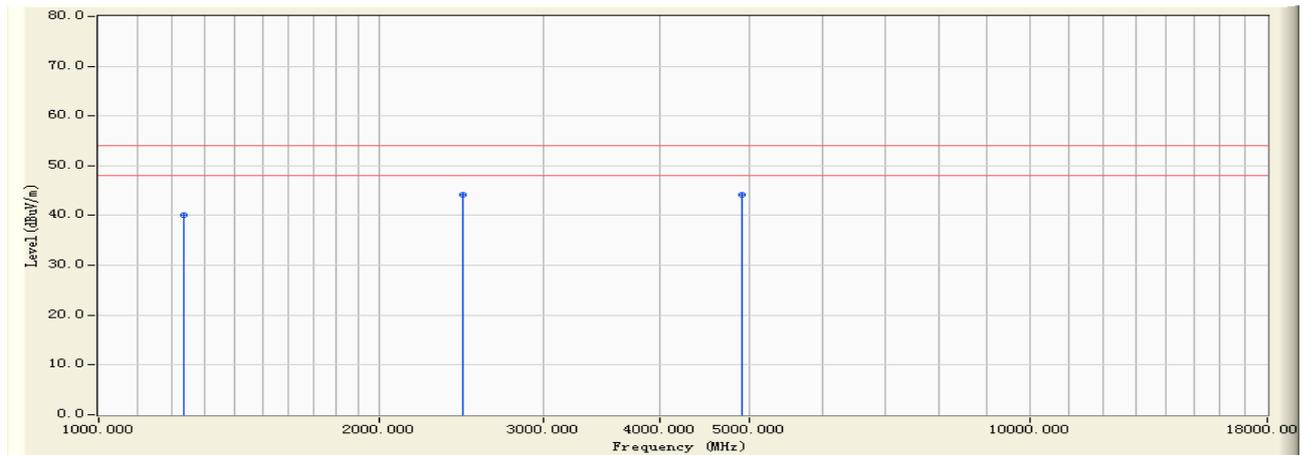
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1233.630	-5.601	55.580	49.980	-24.020	74.000	PEAK
2		2462.340	0.601	53.570	54.171	-19.829	74.000	PEAK
3	*	4906.520	7.529	49.320	56.849	-17.151	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:24
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2462MHz)



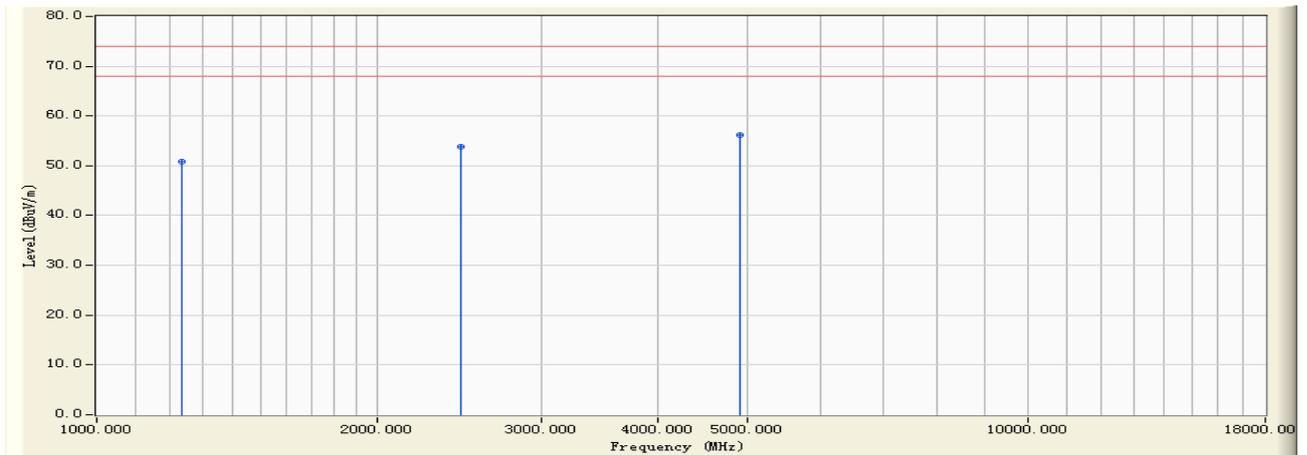
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1233.630	-5.601	45.680	40.080	-13.920	54.000	AVERAGE
2	*	2462.340	0.601	43.670	44.271	-9.729	54.000	AVERAGE
3		4906.520	7.529	36.580	44.109	-9.891	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:25
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2462MHz)



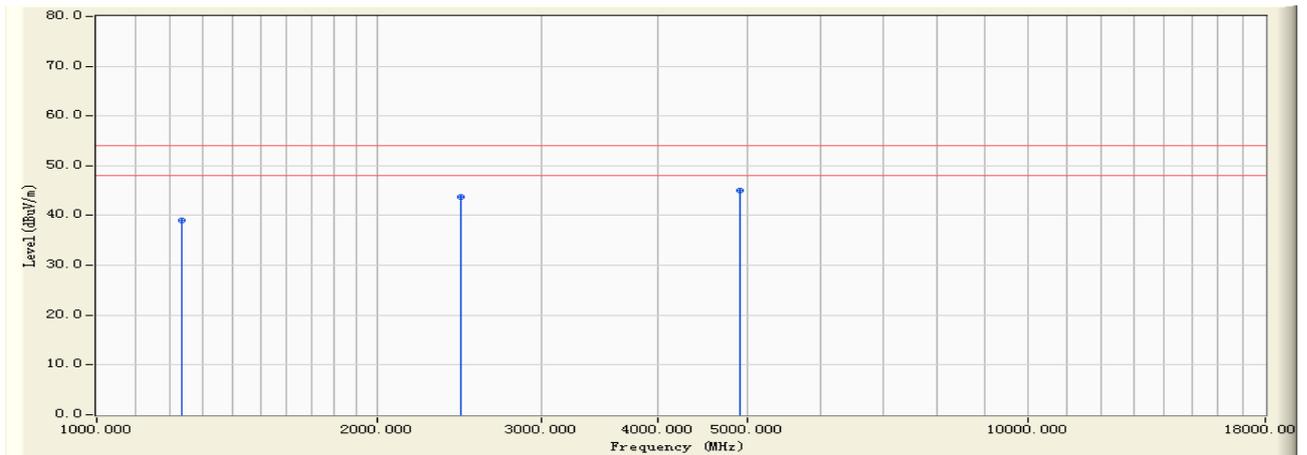
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1234.580	-5.589	56.320	50.731	-23.269	74.000	PEAK
2		2462.580	0.601	53.270	53.871	-20.129	74.000	PEAK
3	*	4905.660	7.527	48.650	56.177	-17.823	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:25
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2462MHz)



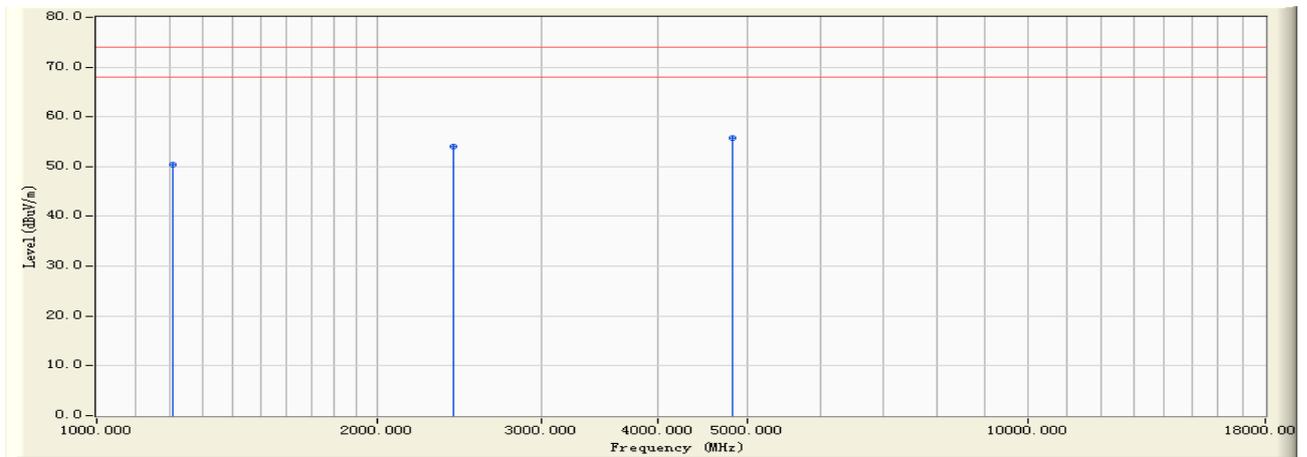
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1234.580	-5.589	44.630	39.041	-14.959	54.000	AVERAGE
2		2462.580	0.601	43.210	43.811	-10.189	54.000	AVERAGE
3	*	4905.660	7.527	37.540	45.067	-8.933	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:29
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2412MHz)



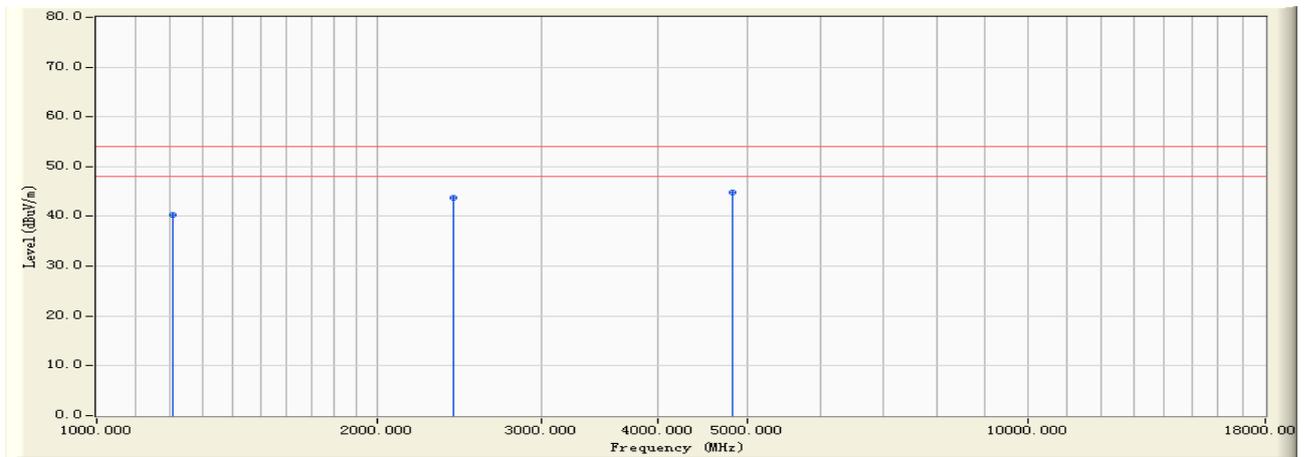
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1205.850	-5.900	56.320	50.421	-23.579	74.000	PEAK
2		2412.380	0.429	53.520	53.950	-20.050	74.000	PEAK
3	*	4825.690	7.352	48.370	55.721	-18.279	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:29
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2412MHz)



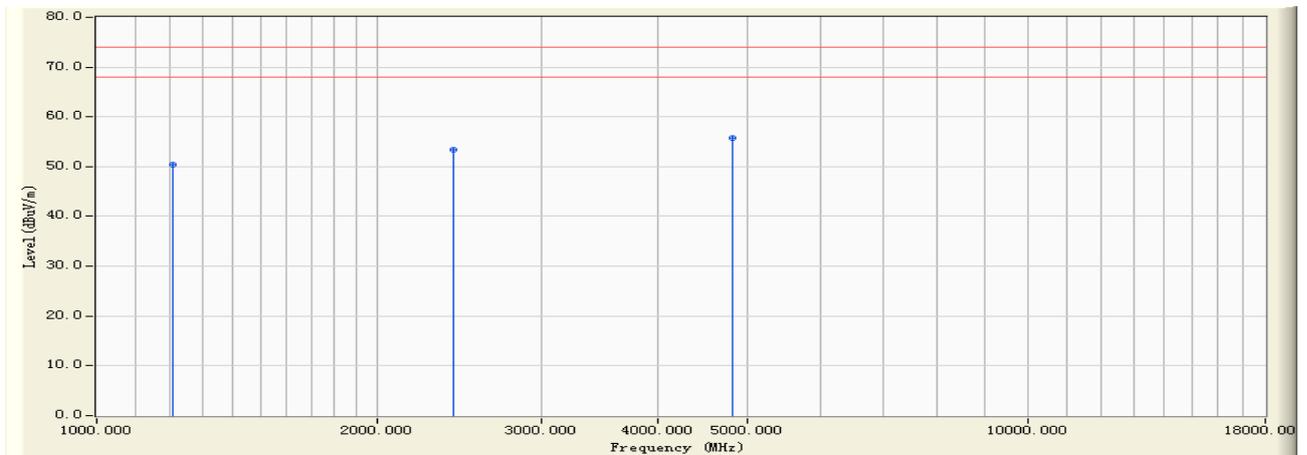
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1205.850	-5.900	46.310	40.411	-13.589	54.000	AVERAGE
2		2412.380	0.429	43.280	43.710	-10.290	54.000	AVERAGE
3	*	4825.690	7.352	37.580	44.931	-9.069	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:30
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2412MHz)



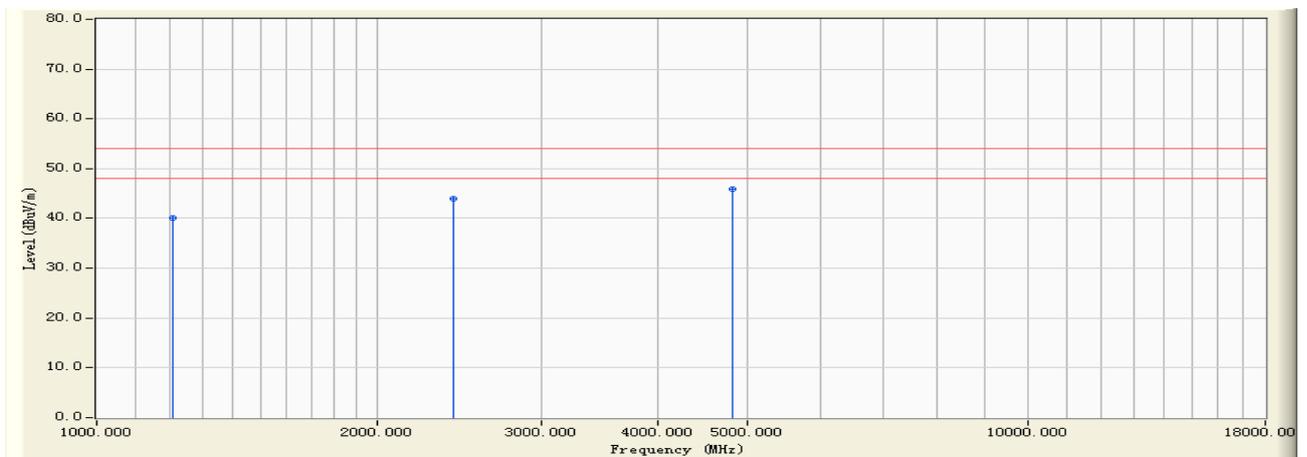
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.580	-5.882	56.390	50.509	-23.491	74.000	PEAK
2		2412.560	0.430	52.890	53.320	-20.680	74.000	PEAK
3	*	4826.350	7.353	48.330	55.683	-18.317	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:30
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2412MHz)



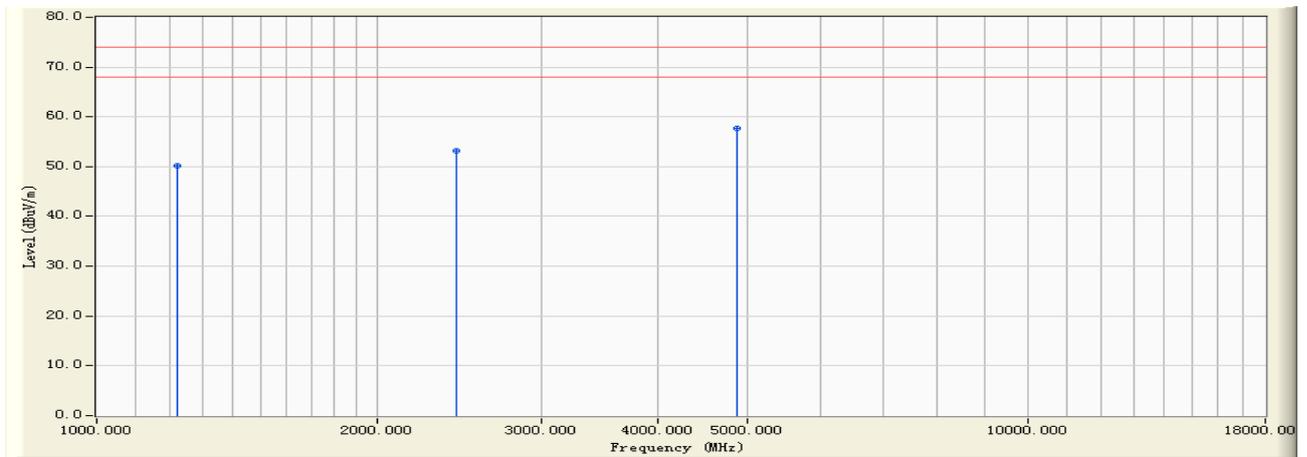
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.580	-5.882	45.960	40.079	-13.921	54.000	AVERAGE
2		2412.560	0.430	43.570	44.000	-10.000	54.000	AVERAGE
3	*	4826.350	7.353	38.540	45.893	-8.107	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:31
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2437MHz)



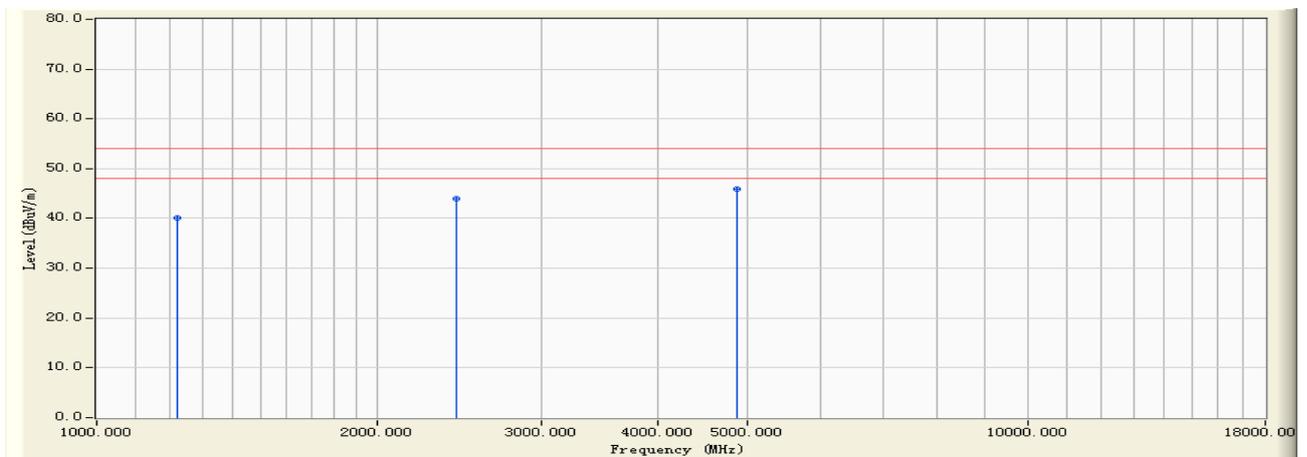
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1220.360	-5.748	55.850	50.102	-23.898	74.000	PEAK
2		2437.560	0.510	52.670	53.181	-20.819	74.000	PEAK
3	*	4875.340	7.459	50.180	57.639	-16.361	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:31
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2437MHz)



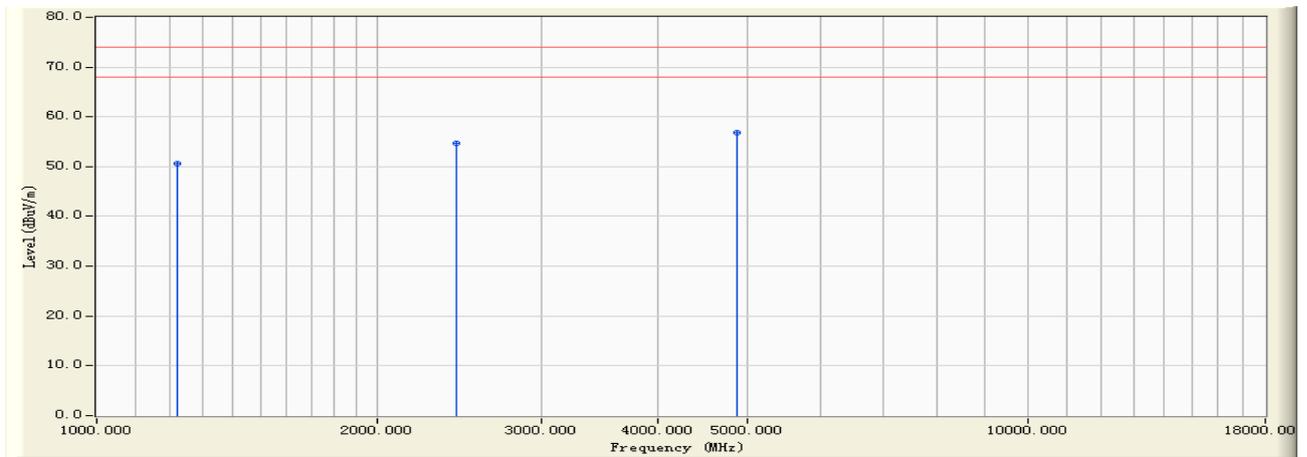
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1220.360	-5.748	45.870	40.122	-13.878	54.000	AVERAGE
2		2437.560	0.510	43.540	44.051	-9.949	54.000	AVERAGE
3	*	4875.340	7.459	38.510	45.969	-8.031	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:32
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2437MHz)



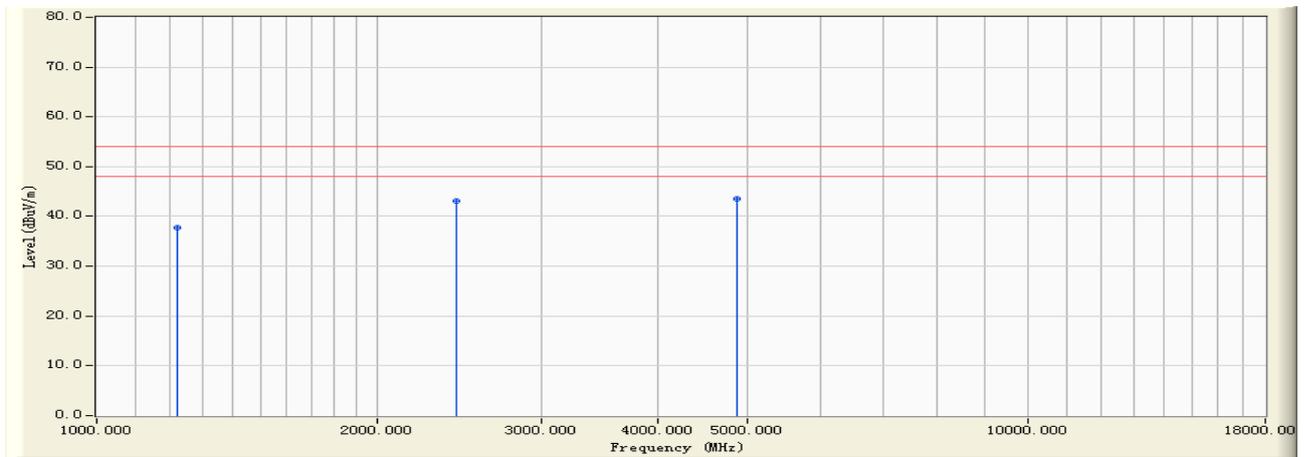
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1220.680	-5.744	56.330	50.585	-23.415	74.000	PEAK
2		2437.510	0.510	54.250	54.761	-19.239	74.000	PEAK
3	*	4875.690	7.461	49.340	56.800	-17.200	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:32
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2437MHz)



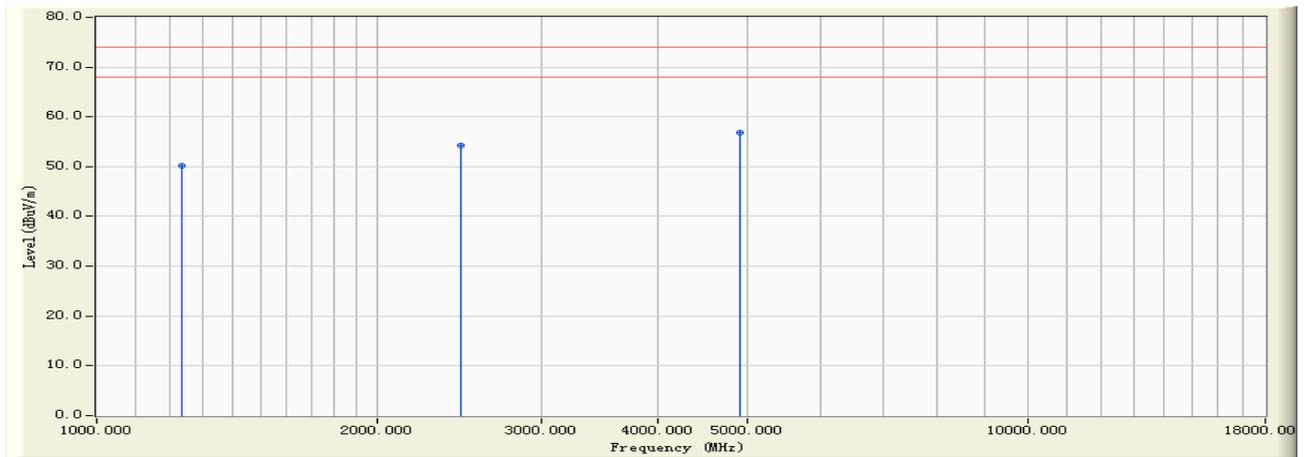
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1220.680	-5.744	43.580	37.835	-16.165	54.000	AVERAGE
2		2437.510	0.510	42.520	43.031	-10.969	54.000	AVERAGE
3	*	4875.690	7.461	35.990	43.450	-10.550	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:33
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2462MHz)



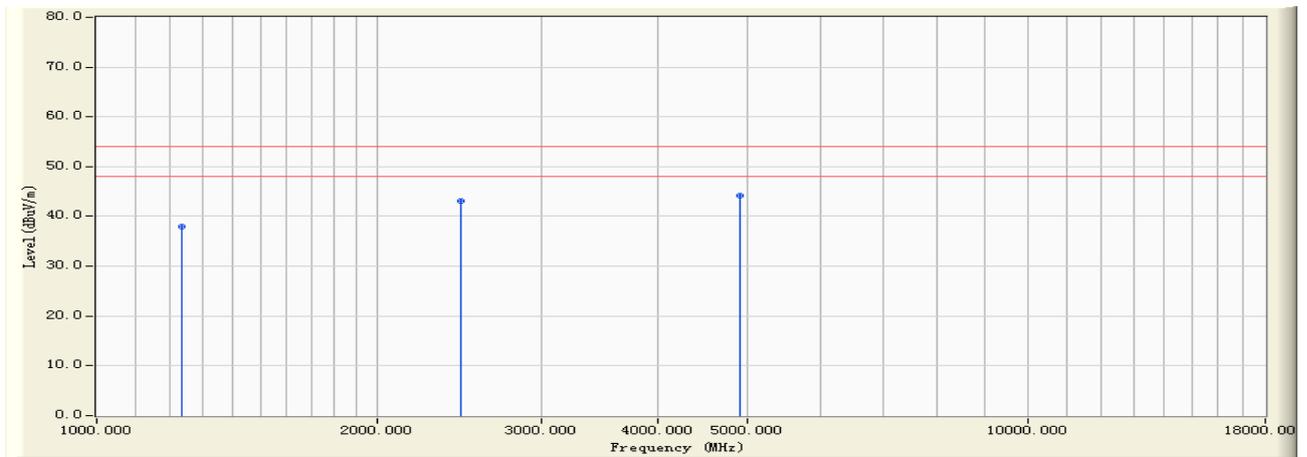
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1235.520	-5.580	55.860	50.281	-23.719	74.000	PEAK
2		2462.530	0.601	53.580	54.181	-19.819	74.000	PEAK
3	*	4906.550	7.529	49.310	56.839	-17.161	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:33
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2462MHz)



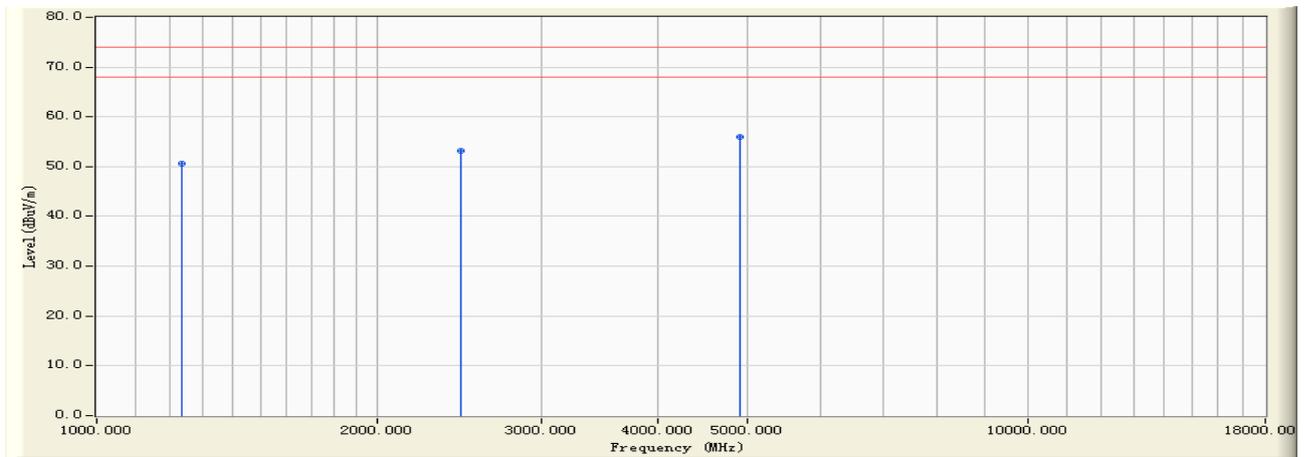
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1235.520	-5.580	43.560	37.981	-16.019	54.000	AVERAGE
2		2462.530	0.601	42.580	43.181	-10.819	54.000	AVERAGE
3	*	4906.550	7.529	36.570	44.099	-9.901	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:34
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2462MHz)



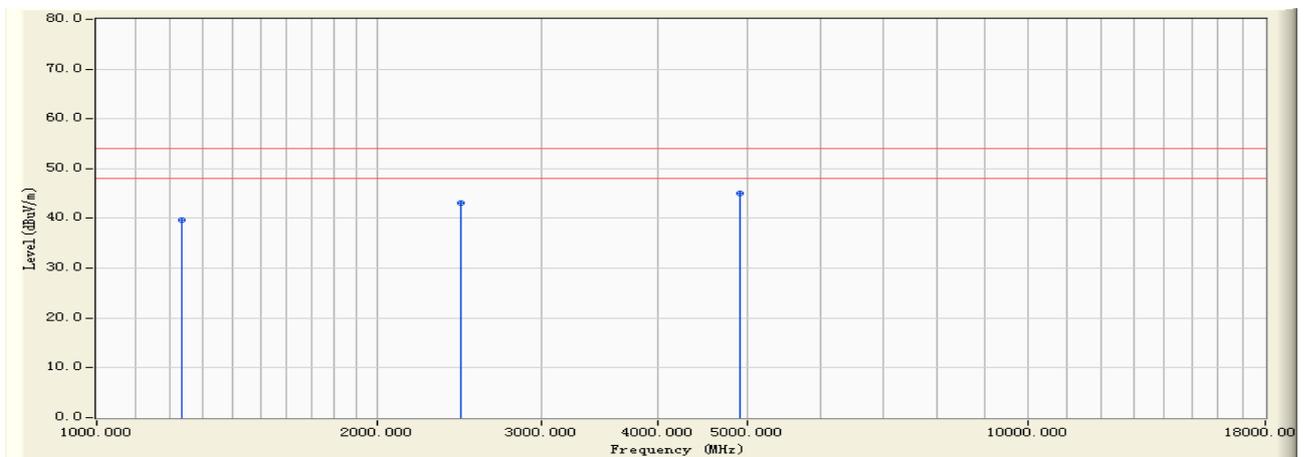
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1234.630	-5.589	56.310	50.721	-23.279	74.000	PEAK
2		2462.570	0.601	52.670	53.271	-20.729	74.000	PEAK
3	*	4906.330	7.529	48.520	56.048	-17.952	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:34
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2462MHz)



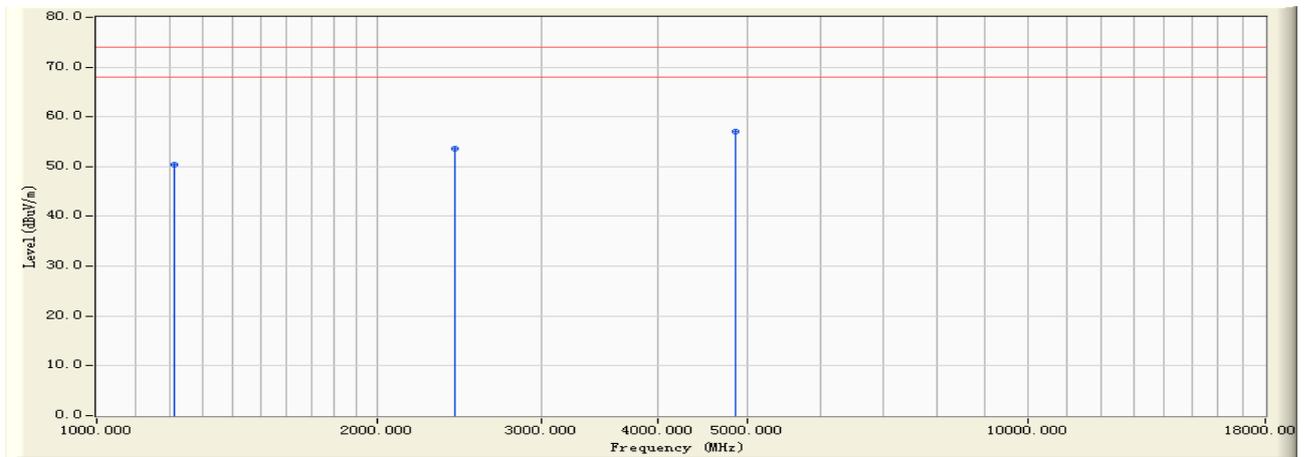
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1234.630	-5.589	45.360	39.771	-14.229	54.000	AVERAGE
2		2462.570	0.601	42.540	43.141	-10.859	54.000	AVERAGE
3	*	4906.330	7.529	37.520	45.048	-8.952	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:35
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2422MHz)



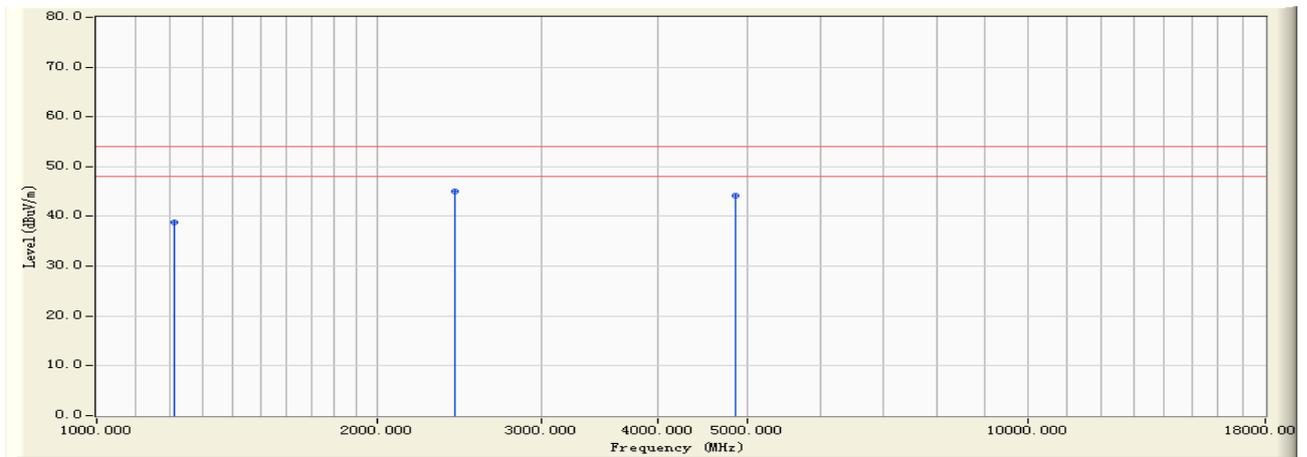
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1213.530	-5.819	56.320	50.501	-23.499	74.000	PEAK
2		2422.560	0.464	53.260	53.725	-20.275	74.000	PEAK
3	*	4845.690	7.394	49.570	56.963	-17.037	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:35
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2422MHz)



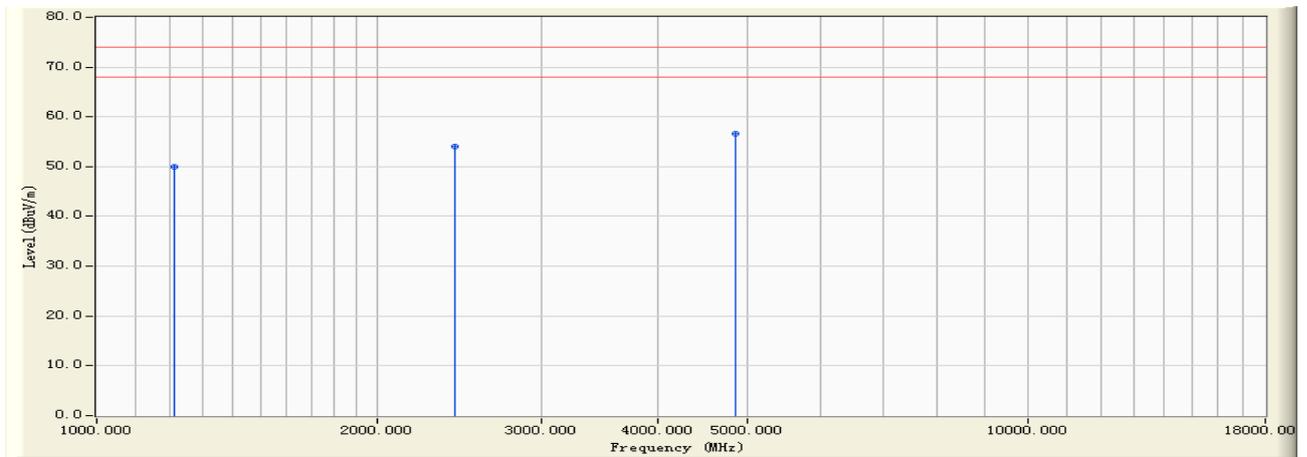
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1213.530	-5.819	44.680	38.861	-15.139	54.000	AVERAGE
2	*	2422.560	0.464	44.520	44.985	-9.015	54.000	AVERAGE
3		4845.690	7.394	36.840	44.233	-9.767	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:36
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2422MHz)



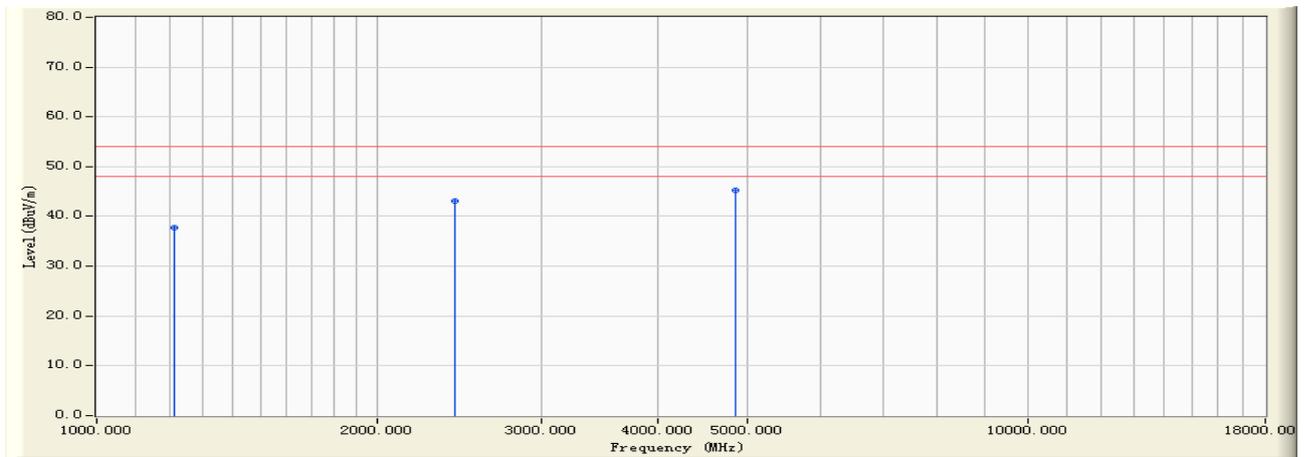
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1213.580	-5.819	55.850	50.031	-23.969	74.000	PEAK
2		2422.530	0.464	53.580	54.044	-19.956	74.000	PEAK
3	*	4846.350	7.395	49.310	56.705	-17.295	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:36
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2422MHz)



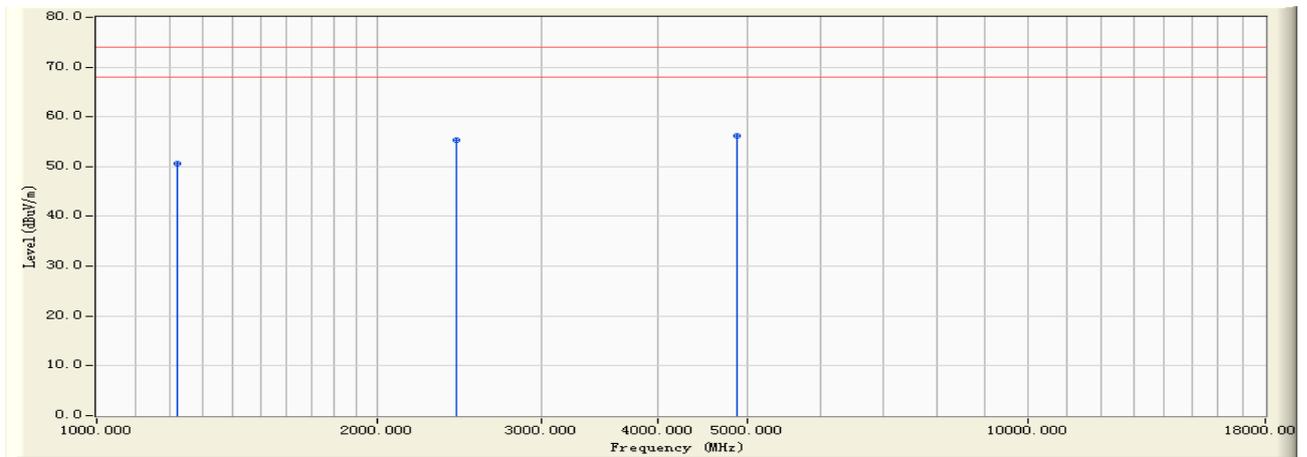
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1213.580	-5.819	43.560	37.741	-16.259	54.000	AVERAGE
2		2422.530	0.464	42.580	43.044	-10.956	54.000	AVERAGE
3	*	4846.350	7.395	37.950	45.345	-8.655	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:37
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2437MHz)



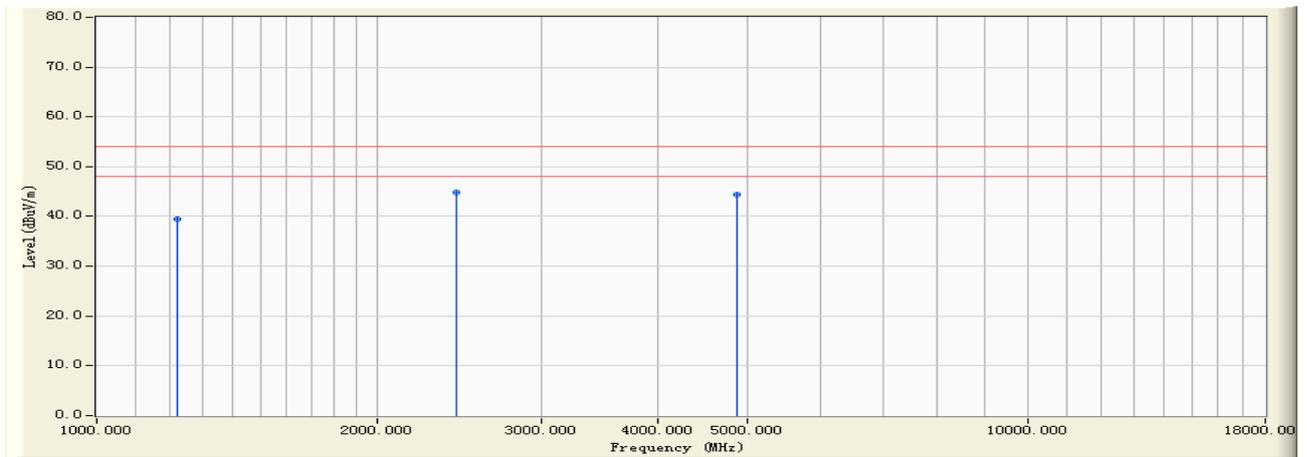
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1220.360	-5.748	56.360	50.612	-23.388	74.000	PEAK
2		2437.510	0.510	54.870	55.381	-18.619	74.000	PEAK
3	*	4876.590	7.462	48.650	56.112	-17.888	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:37
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2437MHz)



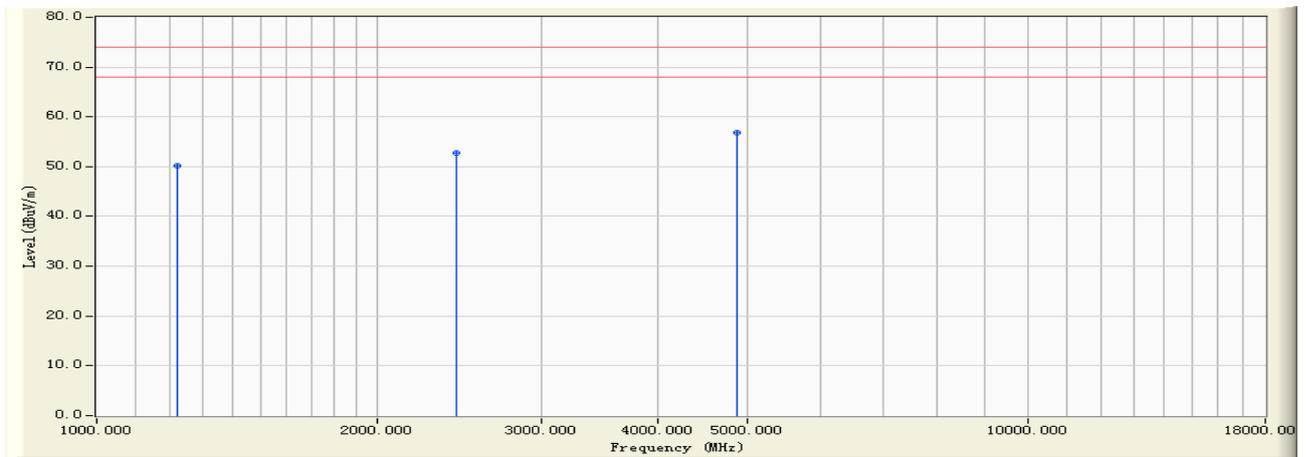
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1220.360	-5.748	45.310	39.562	-14.438	54.000	AVERAGE
2	*	2437.510	0.510	44.210	44.721	-9.279	54.000	AVERAGE
3		4876.590	7.462	36.860	44.322	-9.678	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:38
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2437MHz)



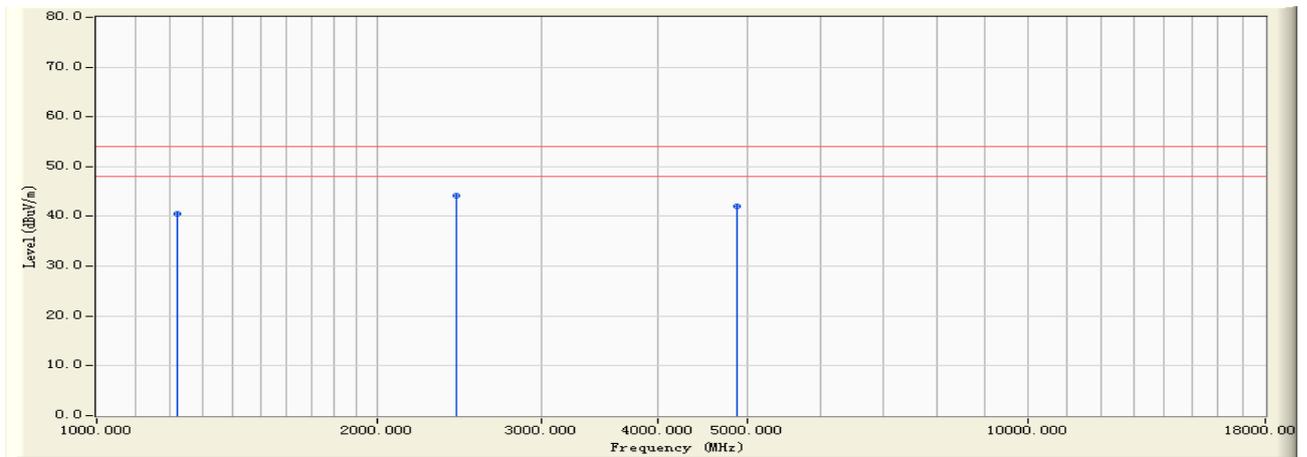
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1221.360	-5.737	55.850	50.113	-23.887	74.000	PEAK
2		2437.540	0.510	52.340	52.851	-21.149	74.000	PEAK
3	*	4876.590	7.462	49.360	56.822	-17.178	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:38
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2437MHz)



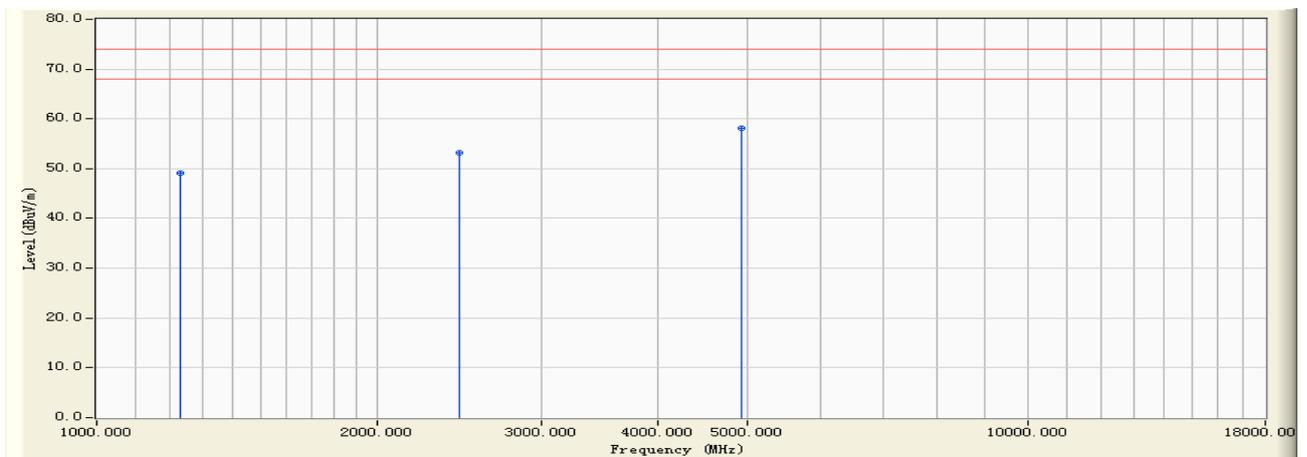
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1221.360	-5.737	46.350	40.613	-13.387	54.000	AVERAGE
2	*	2437.540	0.510	43.580	44.091	-9.909	54.000	AVERAGE
3		4876.590	7.462	34.520	41.982	-12.018	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:39
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2452MHz)



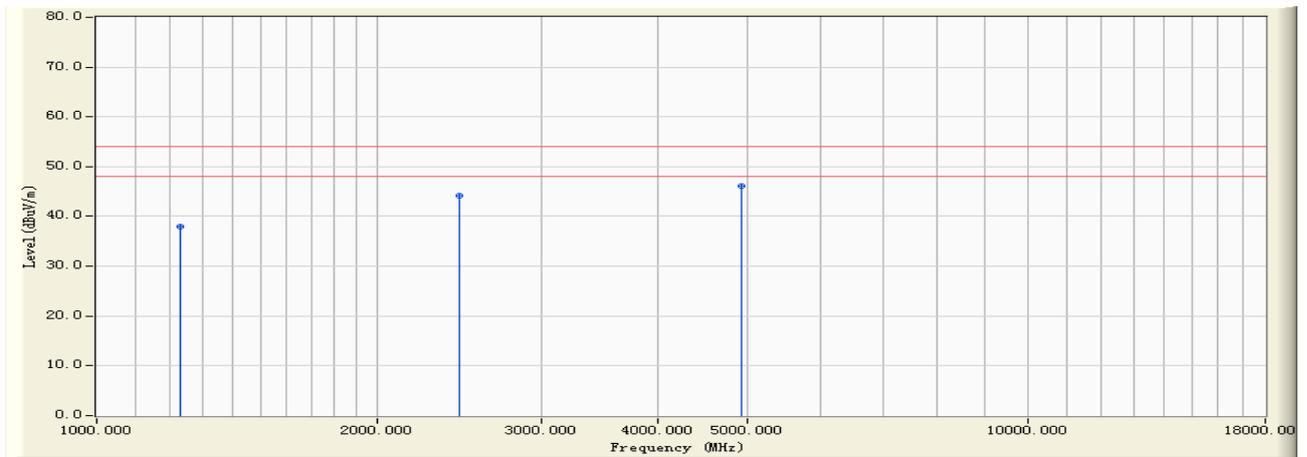
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1228.650	-5.657	54.860	49.203	-24.797	74.000	PEAK
2		2452.570	0.561	52.670	53.232	-20.768	74.000	PEAK
3	*	4926.360	7.570	50.540	58.110	-15.890	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:39
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2452MHz)



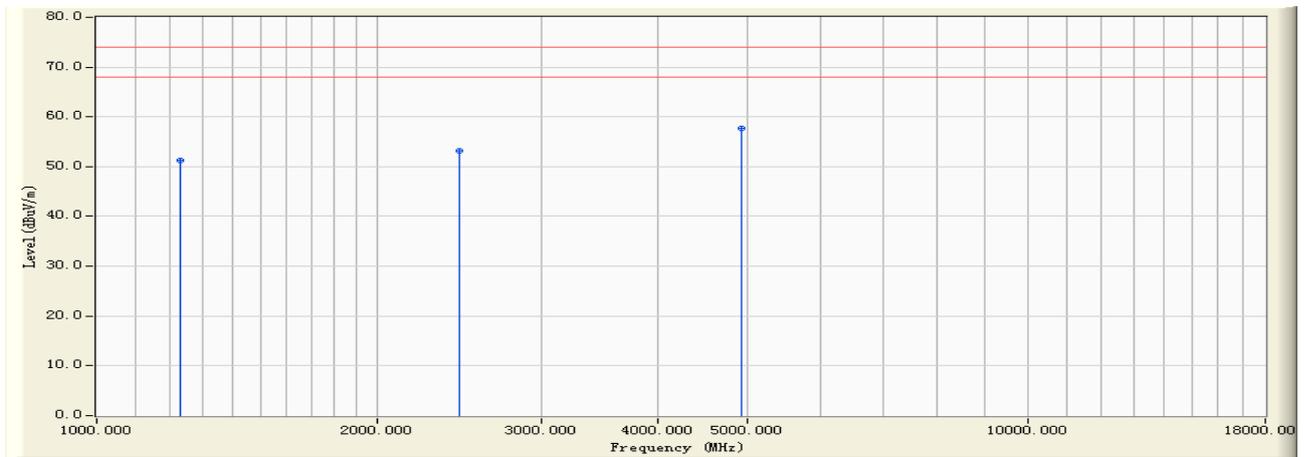
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1228.650	-5.657	43.580	37.923	-16.077	54.000	AVERAGE
2		2452.570	0.561	43.520	44.082	-9.918	54.000	AVERAGE
3	*	4926.360	7.570	38.630	46.200	-7.800	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:40
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2452MHz)



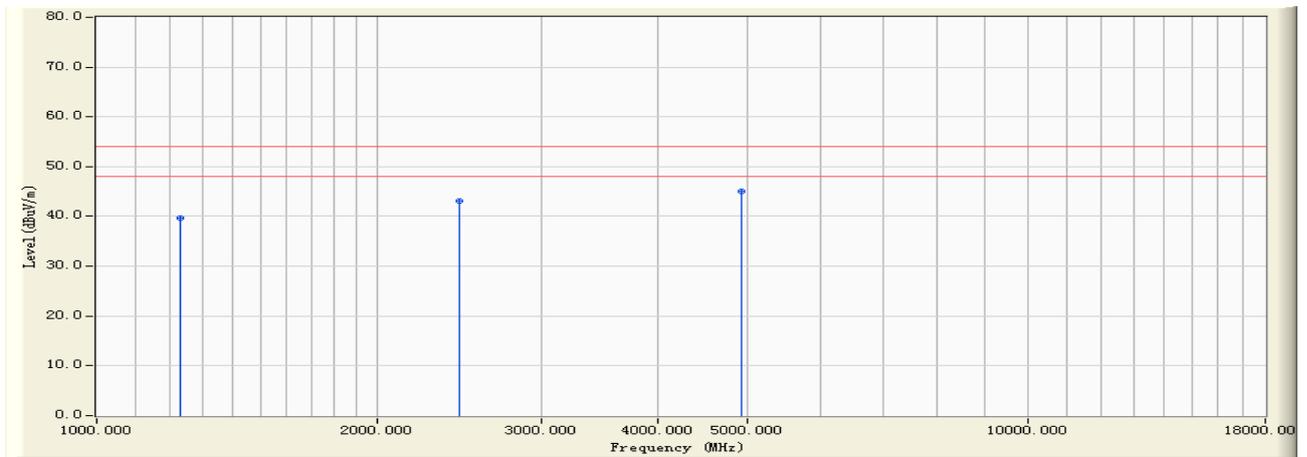
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1230.630	-5.634	56.950	51.316	-22.684	74.000	PEAK
2		2452.370	0.560	52.640	53.201	-20.799	74.000	PEAK
3	*	4926.380	7.570	50.140	57.710	-16.290	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 21:40
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2452MHz)



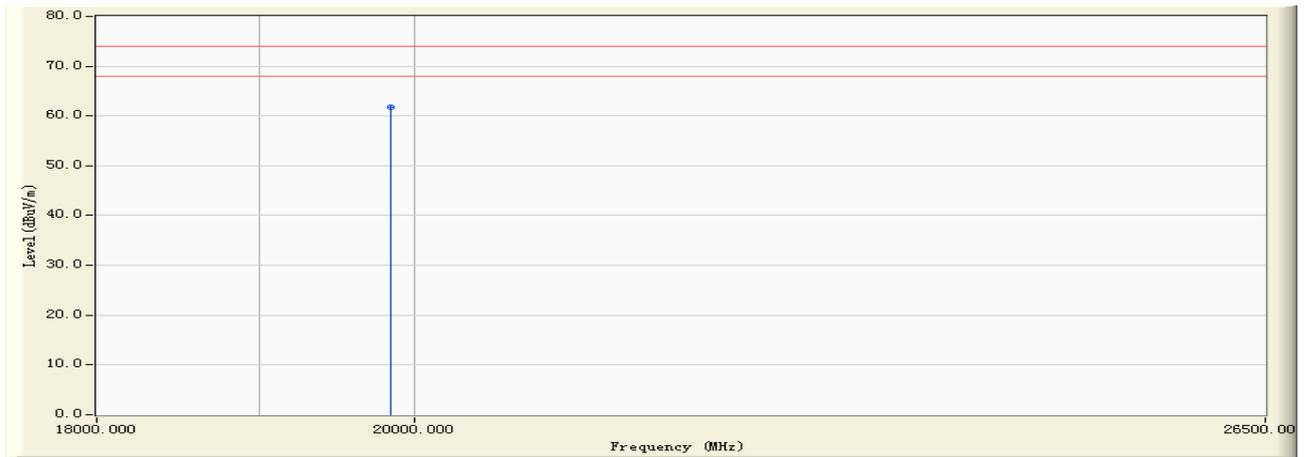
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1230.630	-5.634	45.210	39.576	-14.424	54.000	AVERAGE
2		2452.370	0.560	42.580	43.141	-10.859	54.000	AVERAGE
3	*	4926.380	7.570	37.540	45.110	-8.890	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 22:54
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2412MHz)



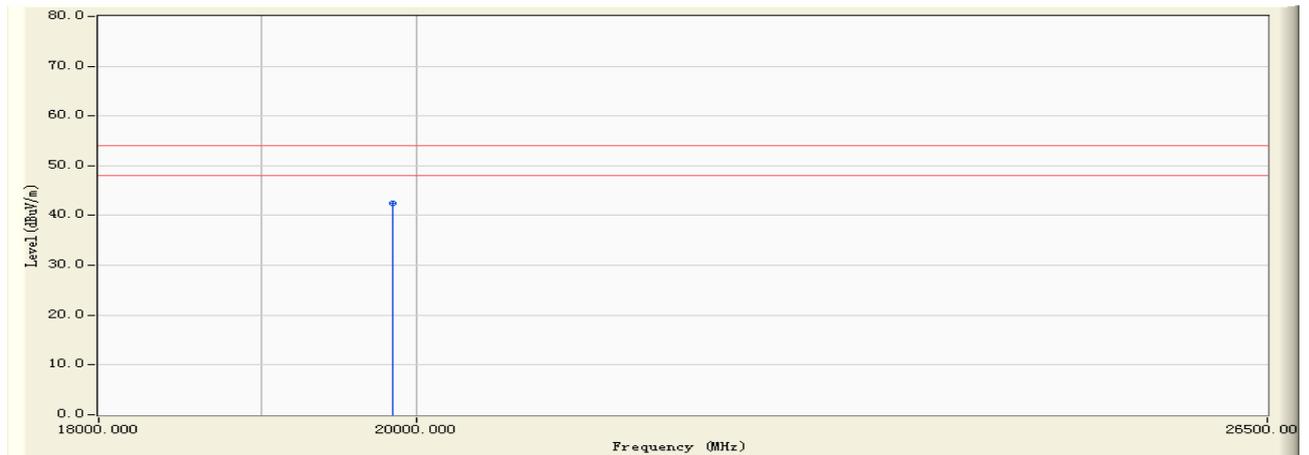
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	19836.000	9.936	51.840	61.775	-12.225	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 22:54
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2412MHz)



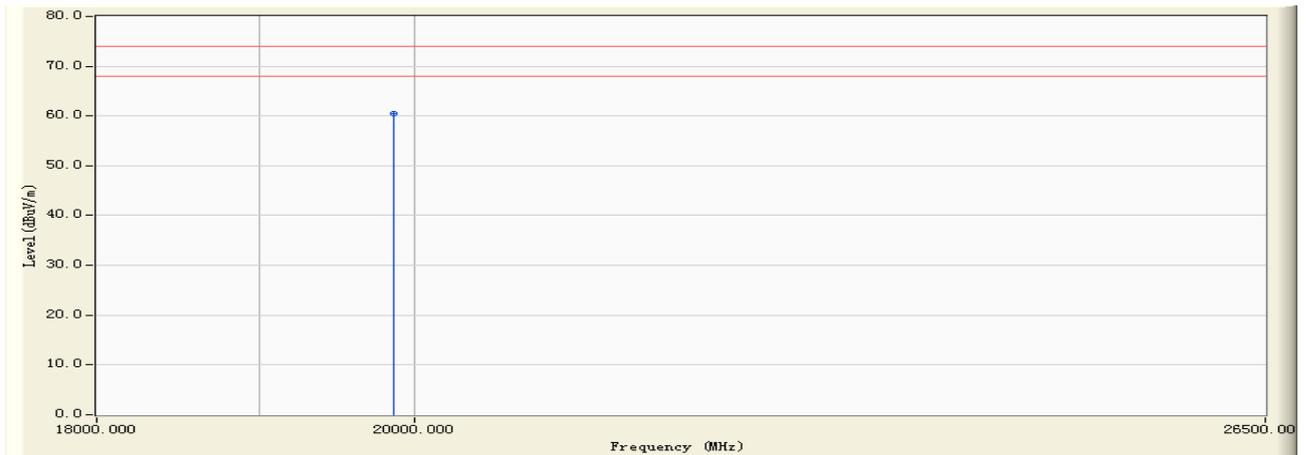
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	19836.000	9.936	32.580	42.515	-11.485	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 22:54
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2412MHz)



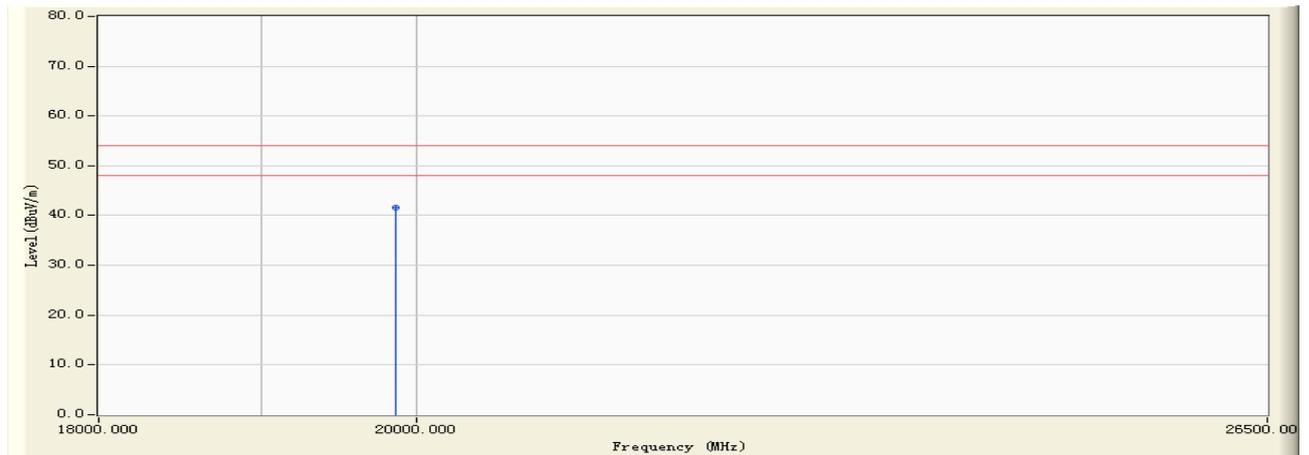
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	19857.000	9.931	50.570	60.501	-13.499	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 22:54
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2412MHz)



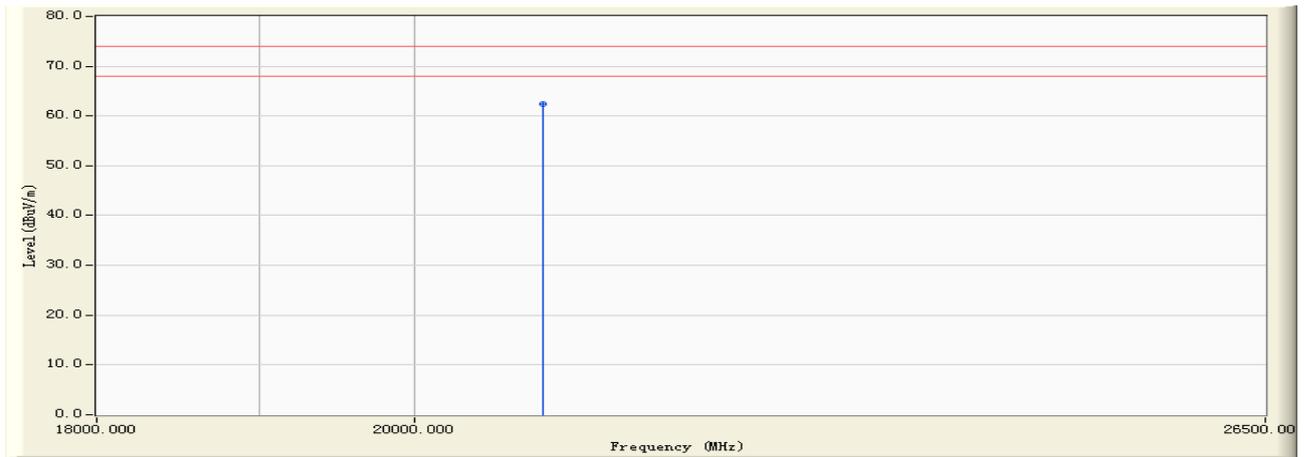
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	19857.000	9.931	31.590	41.521	-12.479	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 22:55
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2437MHz)



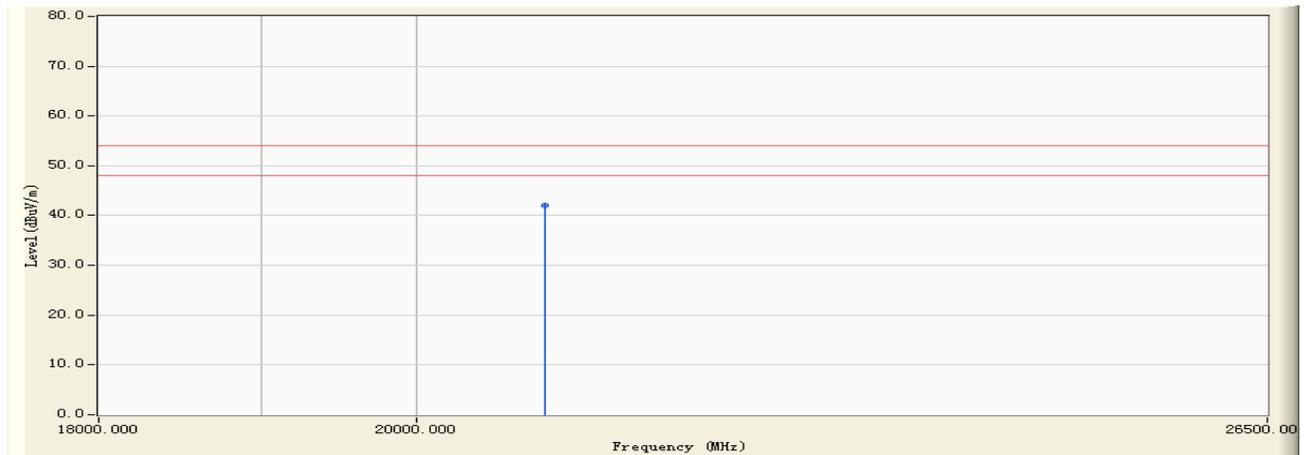
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20869.000	10.163	52.310	62.473	-11.527	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 22:55
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2437MHz)



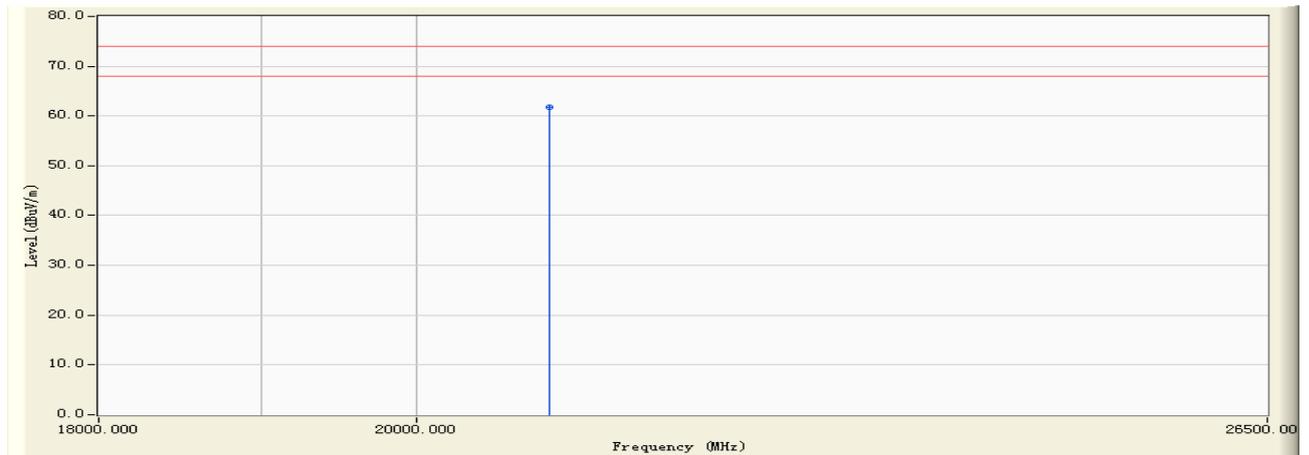
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20869.000	10.163	31.840	42.003	-11.997	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 22:56
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2437MHz)



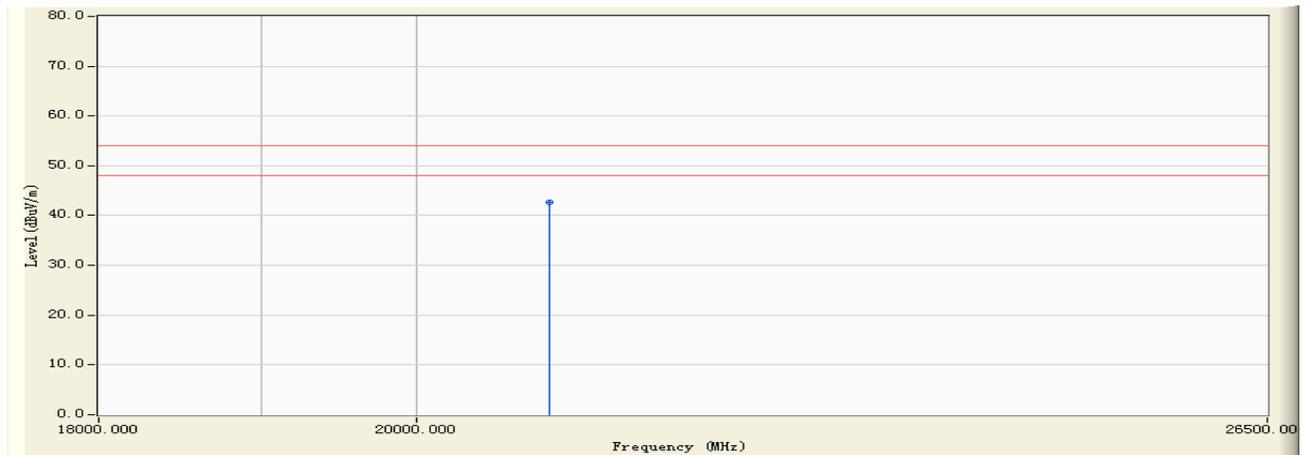
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20894.000	10.191	51.580	61.772	-12.228	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 22:56
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2437MHz)



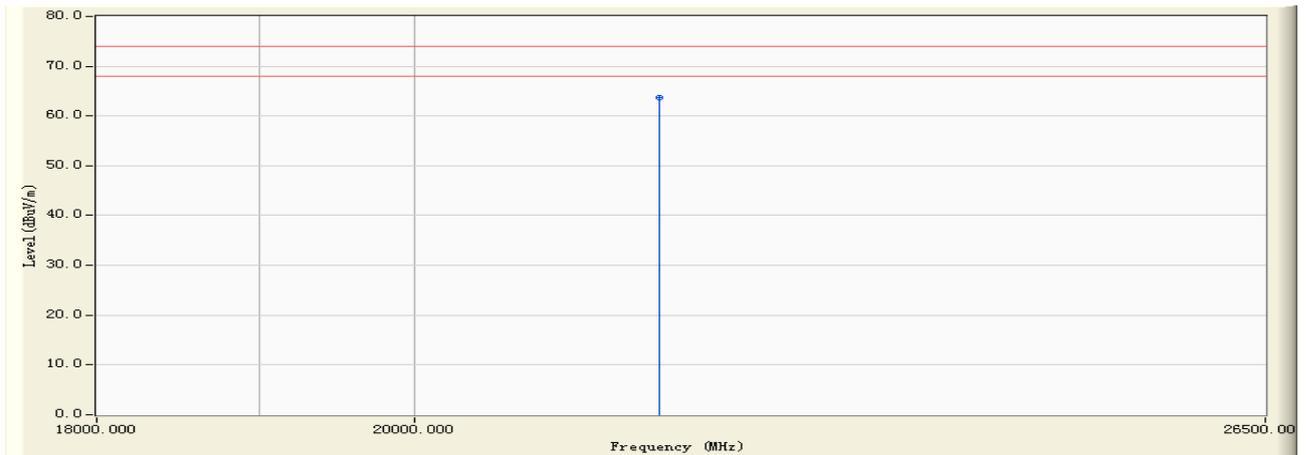
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20894.000	10.191	32.580	42.772	-11.228	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 22:56
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2462MHz)



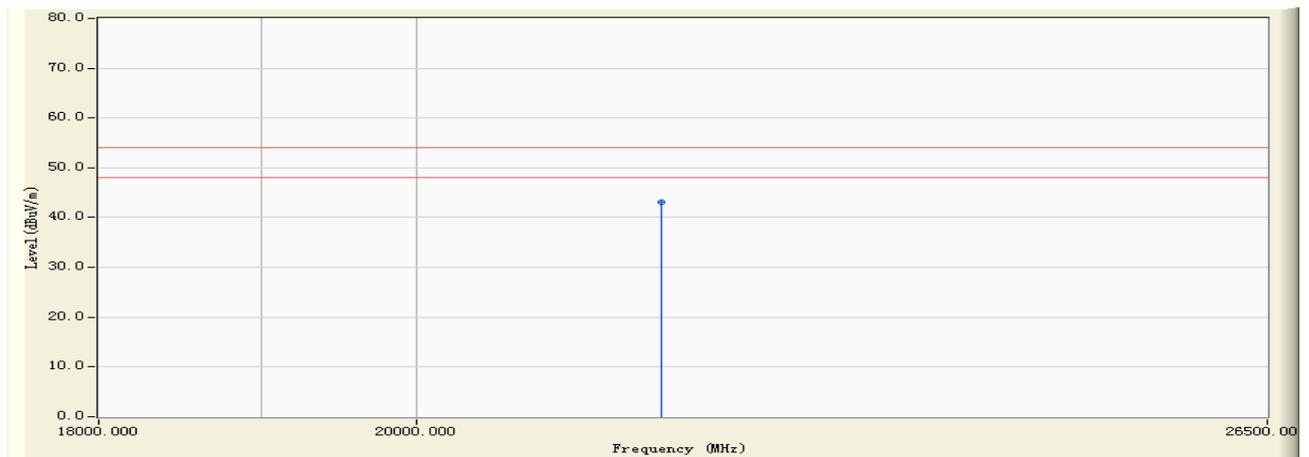
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21685.000	11.619	52.030	63.649	-10.351	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 22:56
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2462MHz)



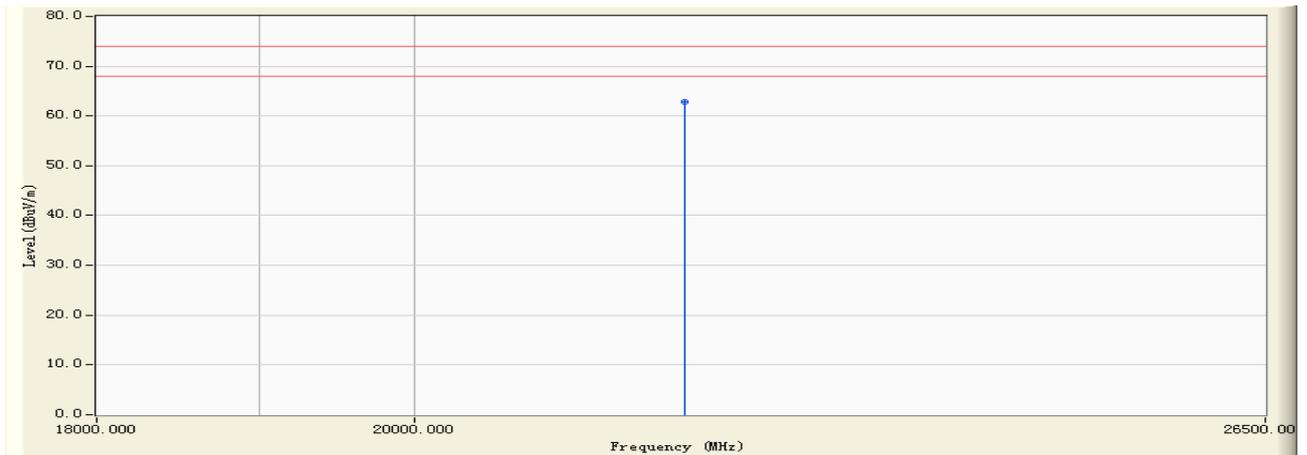
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21685.000	11.619	31.590	43.209	-10.791	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 22:57
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2462MHz)



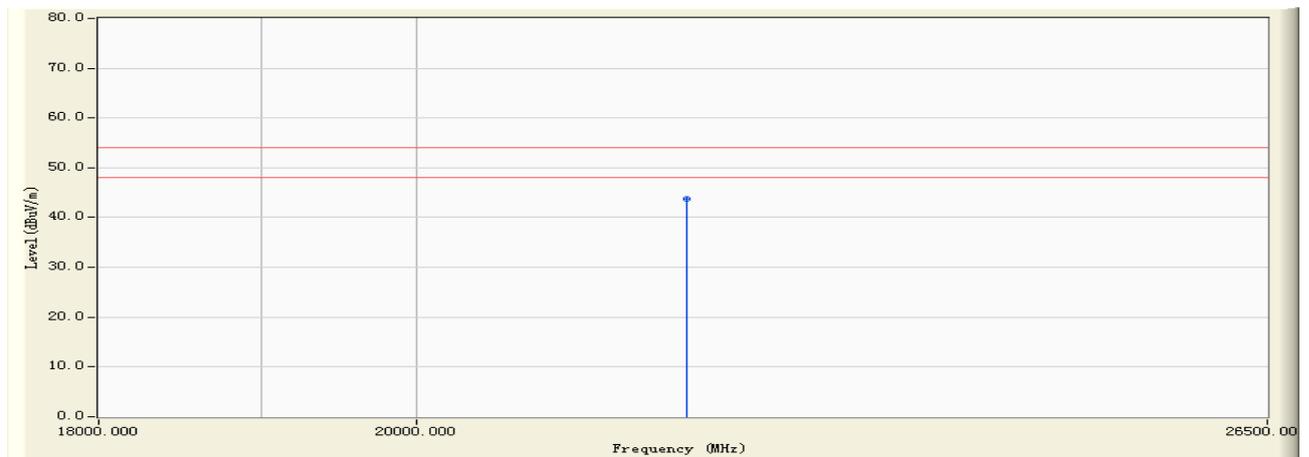
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21863.000	11.970	50.950	62.920	-11.080	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 22:57
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2462MHz)



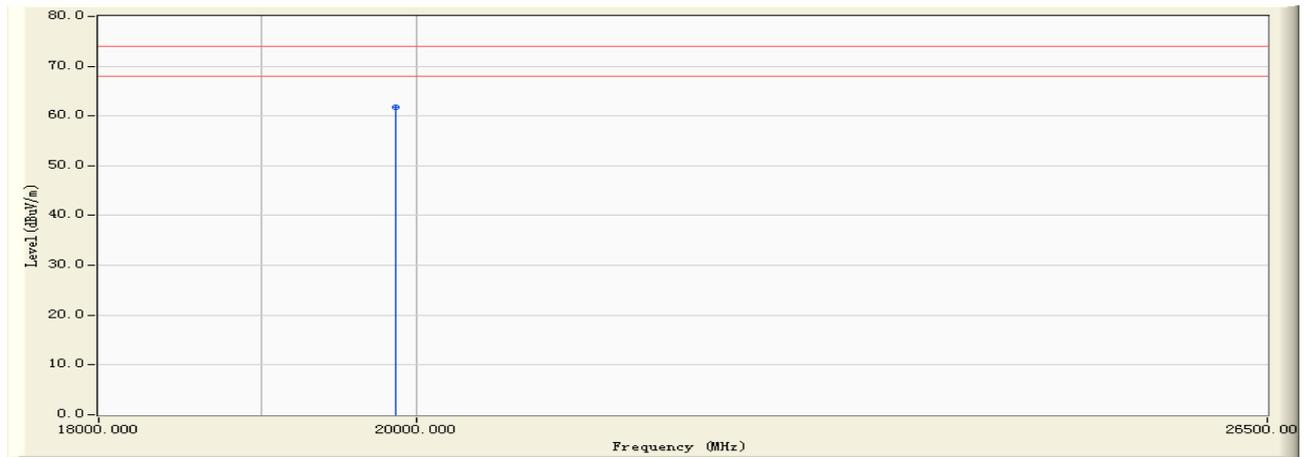
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21863.000	11.970	31.870	43.840	-10.160	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 22:59
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2412MHz)



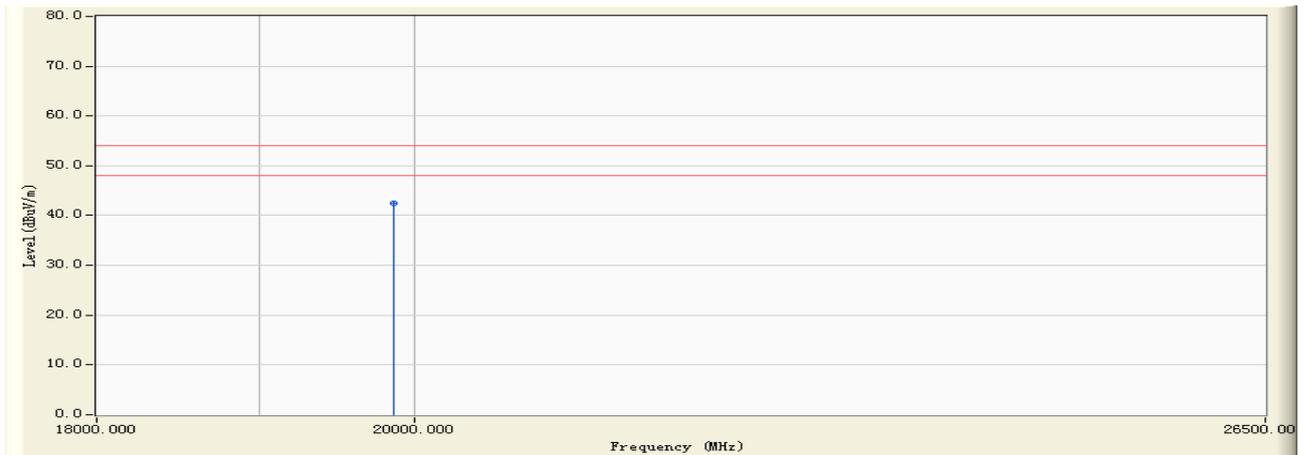
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	19857.000	9.931	51.890	61.821	-12.179	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 22:59
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2412MHz)



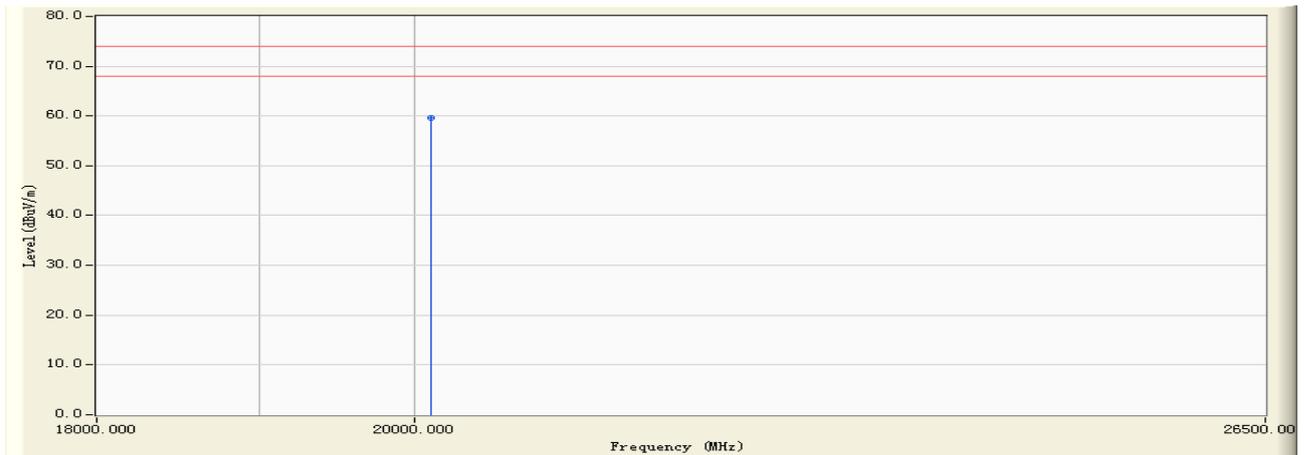
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	19857.000	9.931	32.560	42.491	-11.509	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 22:59
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2412MHz)



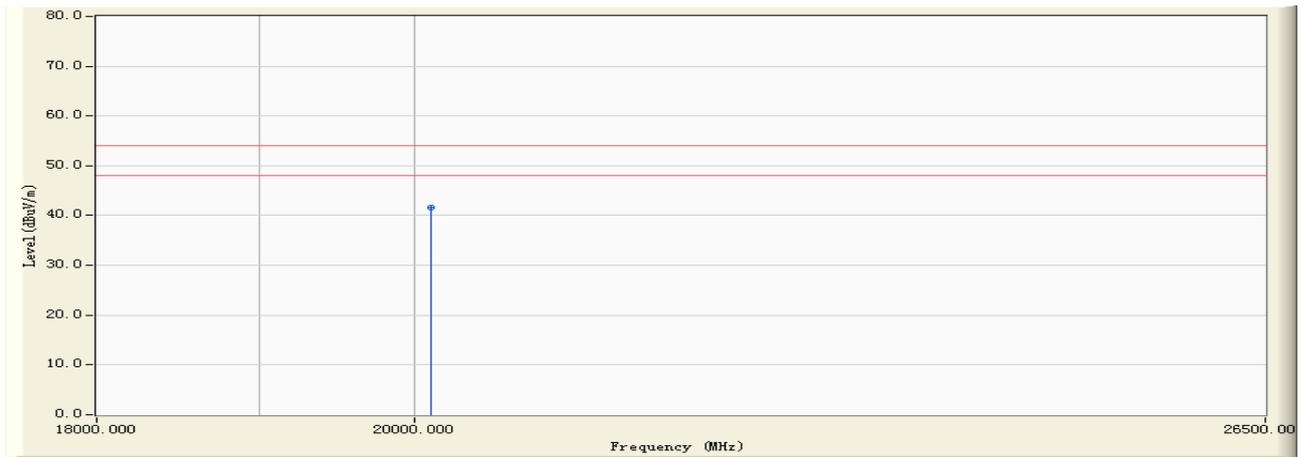
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20103.000	9.868	49.860	59.728	-14.272	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 22:59
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2412MHz)



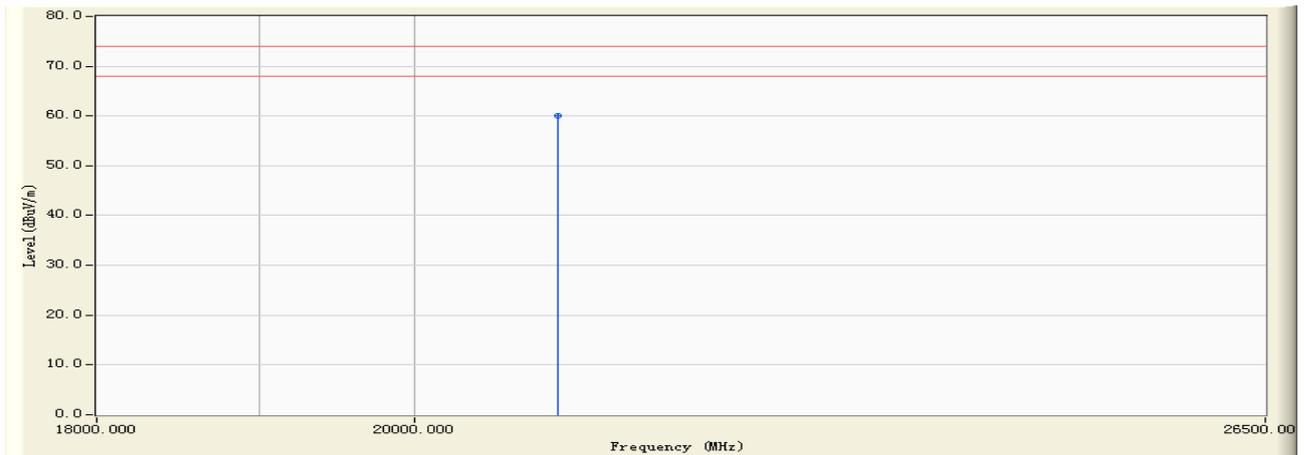
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20103.000	9.868	31.840	41.708	-12.292	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:00
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2437MHz)



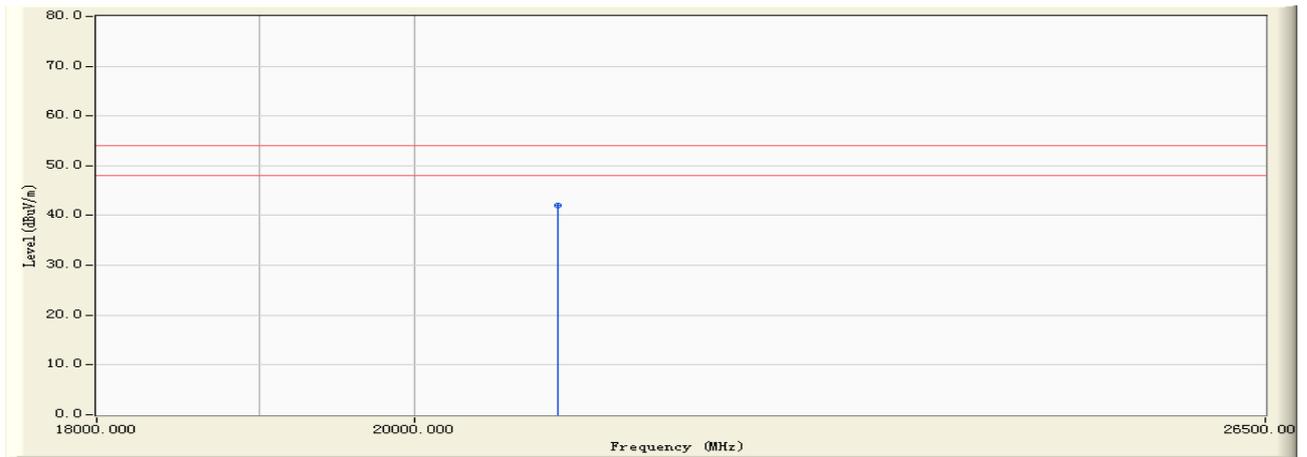
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20968.000	10.268	49.840	60.108	-13.892	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:00
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2437MHz)



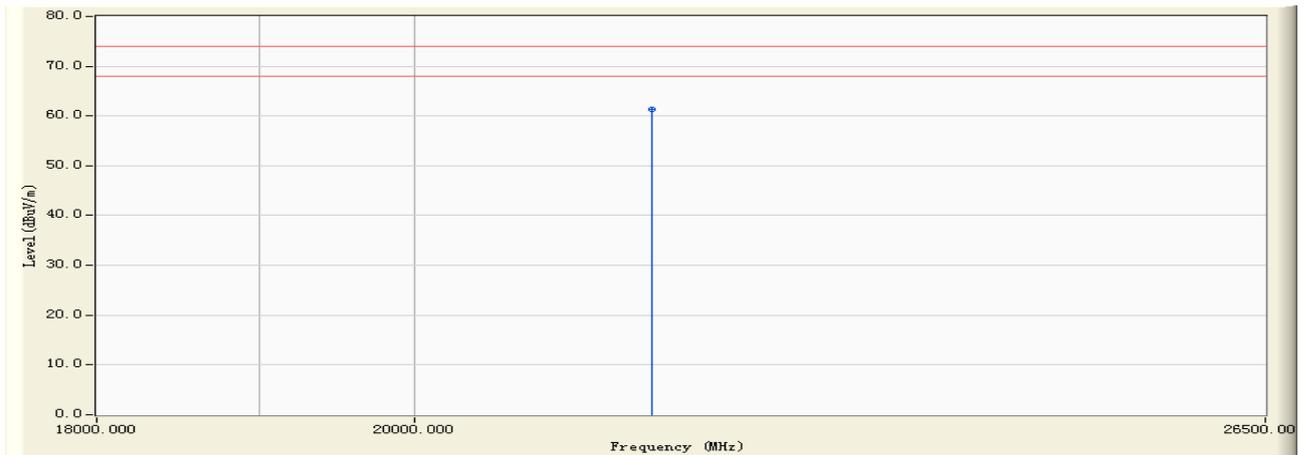
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20968.000	10.268	31.840	42.108	-11.892	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:00
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2437MHz)



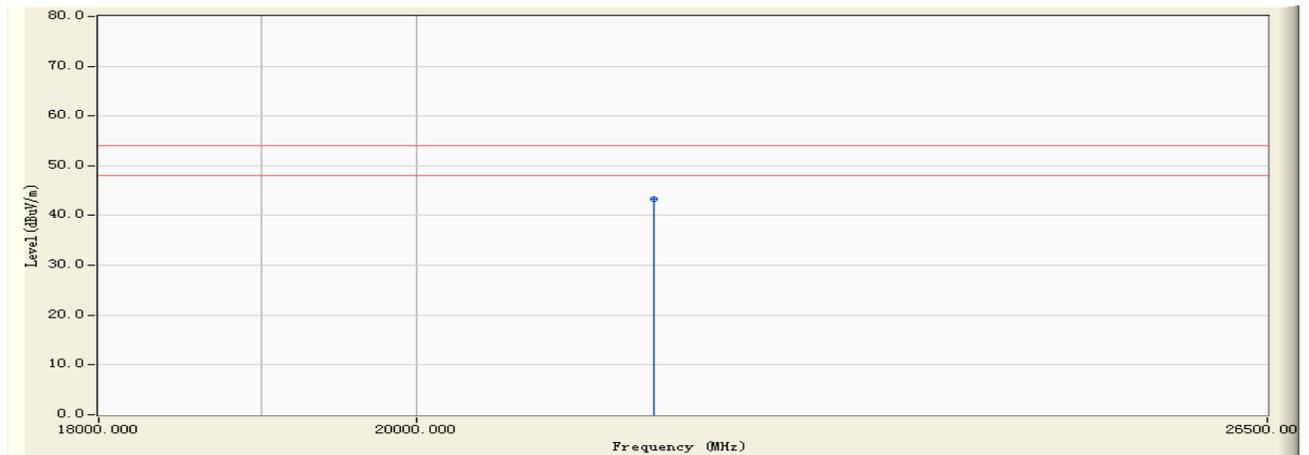
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21635.000	11.518	49.860	61.378	-12.622	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:00
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2437MHz)



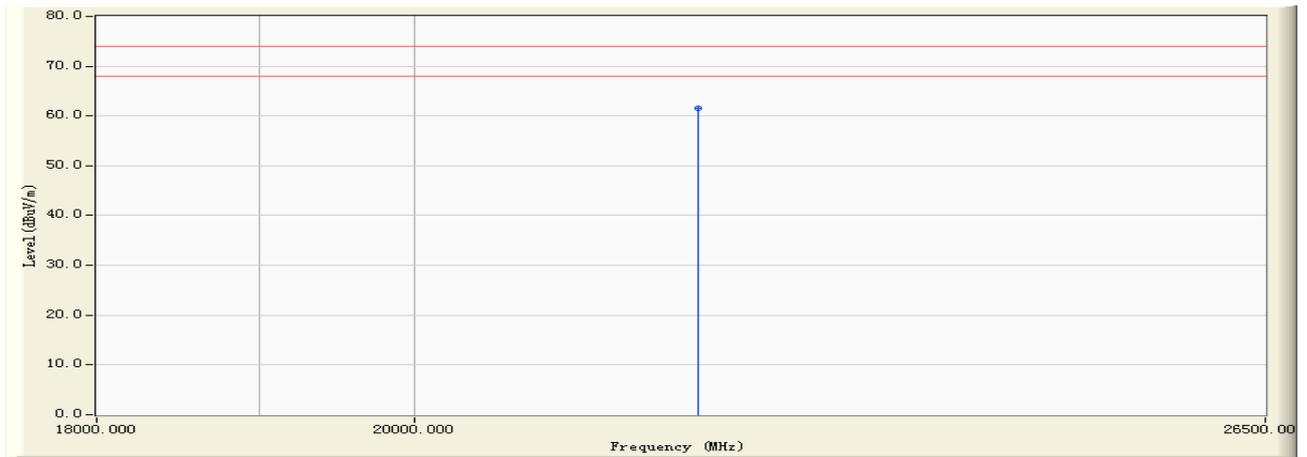
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21635.000	11.518	31.840	43.358	-10.642	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:01
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2462MHz)



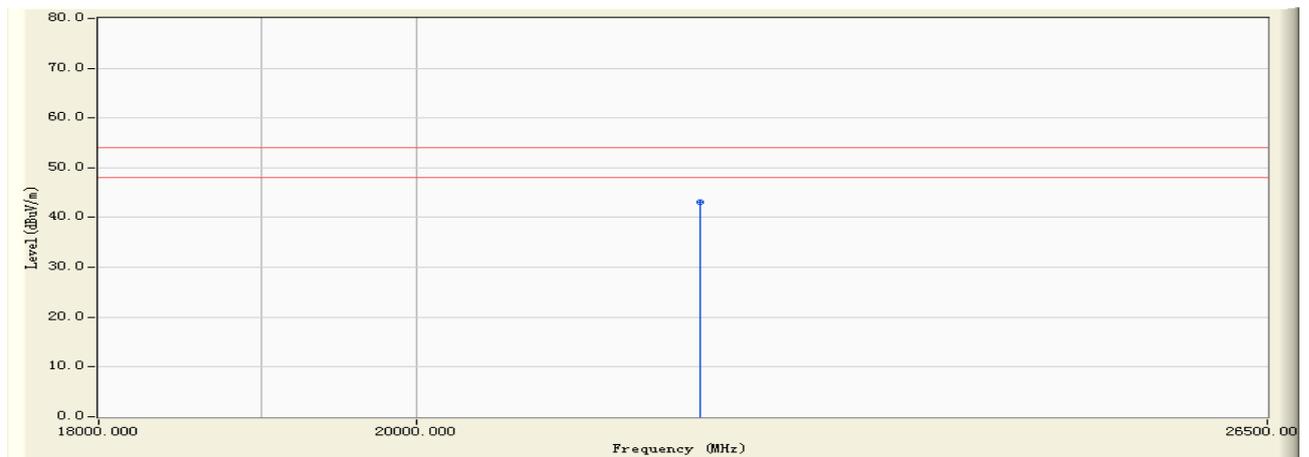
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21967.000	12.213	49.310	61.523	-12.477	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:01
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2462MHz)



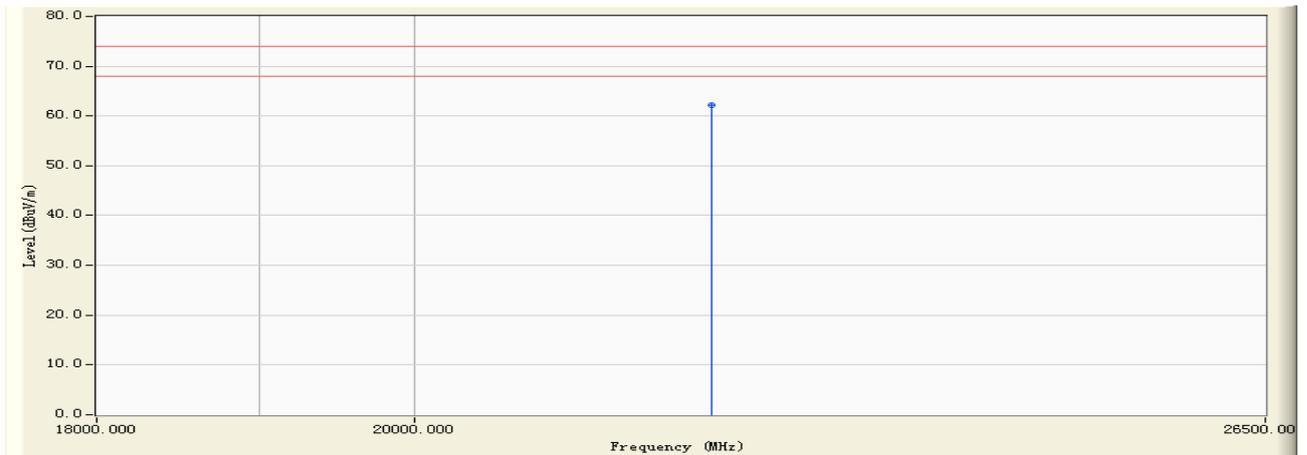
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21967.000	12.213	30.840	43.053	-10.947	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:02
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2462MHz)



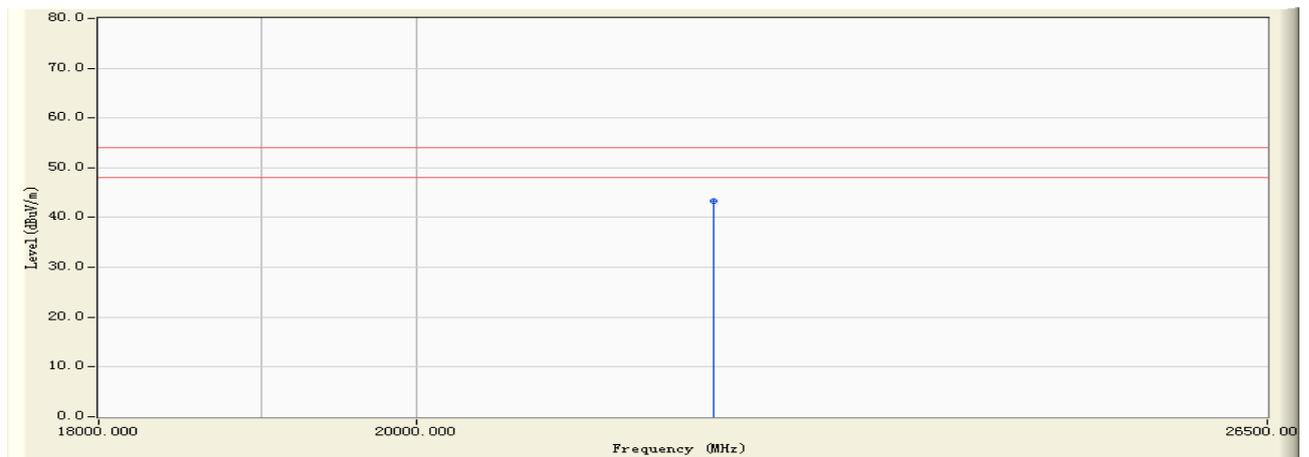
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	22065.000	12.394	49.870	62.264	-11.736	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:02
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2462MHz)



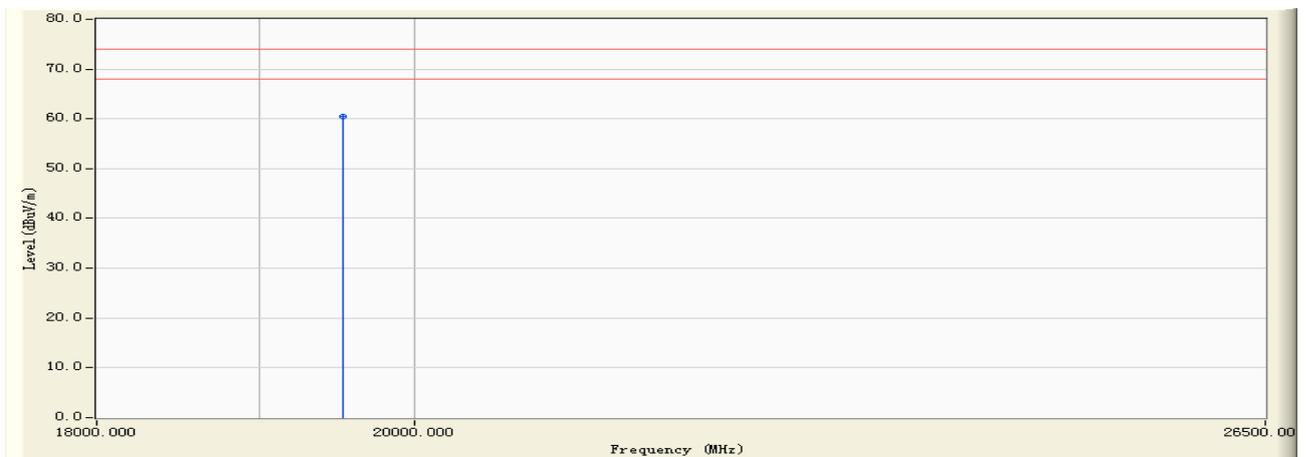
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	22065.000	12.394	30.890	43.284	-10.716	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:05
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2412MHz)



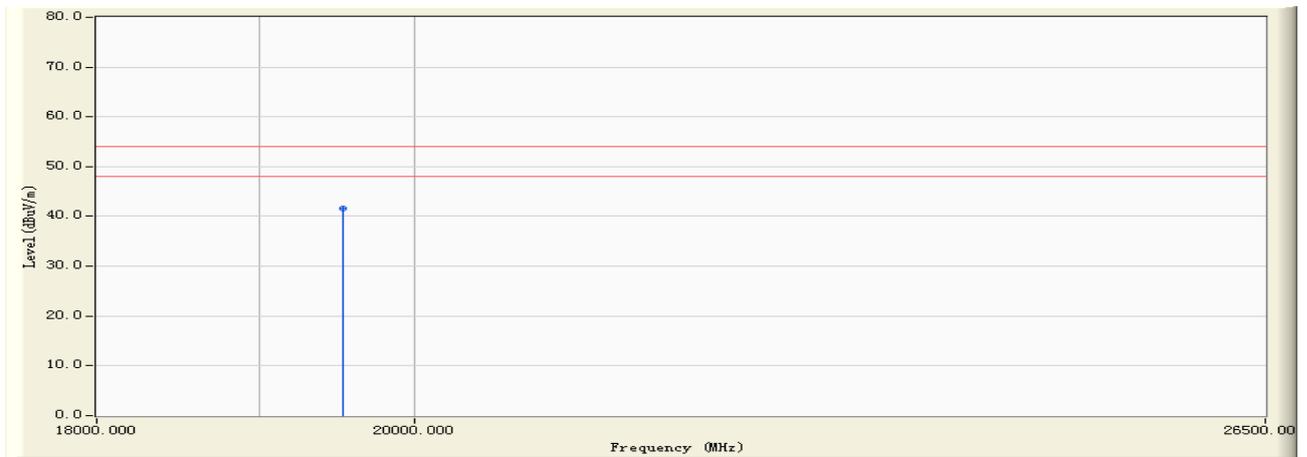
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	19526.000	9.947	50.480	60.427	-13.573	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:05
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2412MHz)



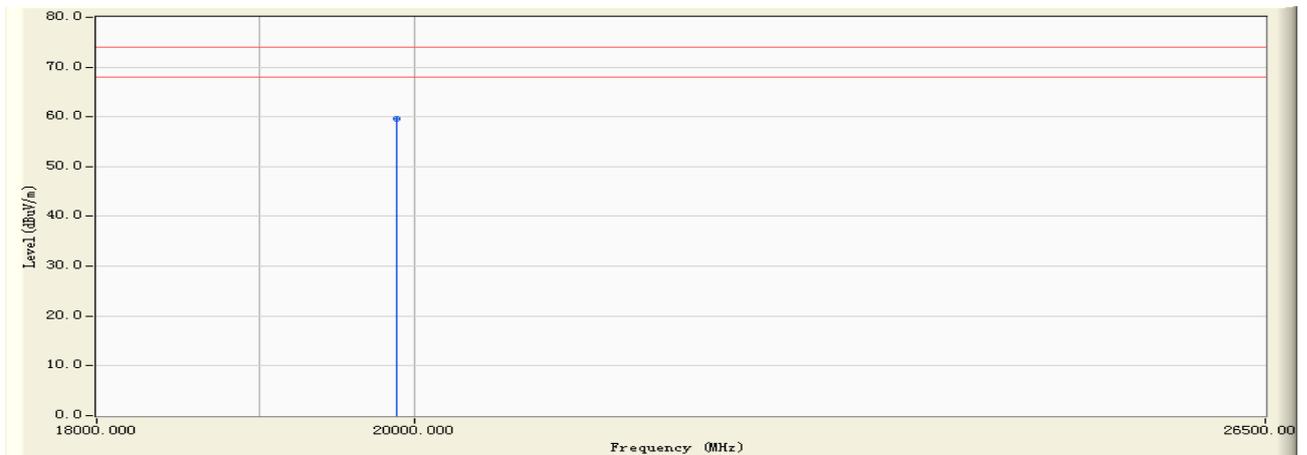
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	19526.000	9.947	31.580	41.527	-12.473	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:06
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2412MHz)



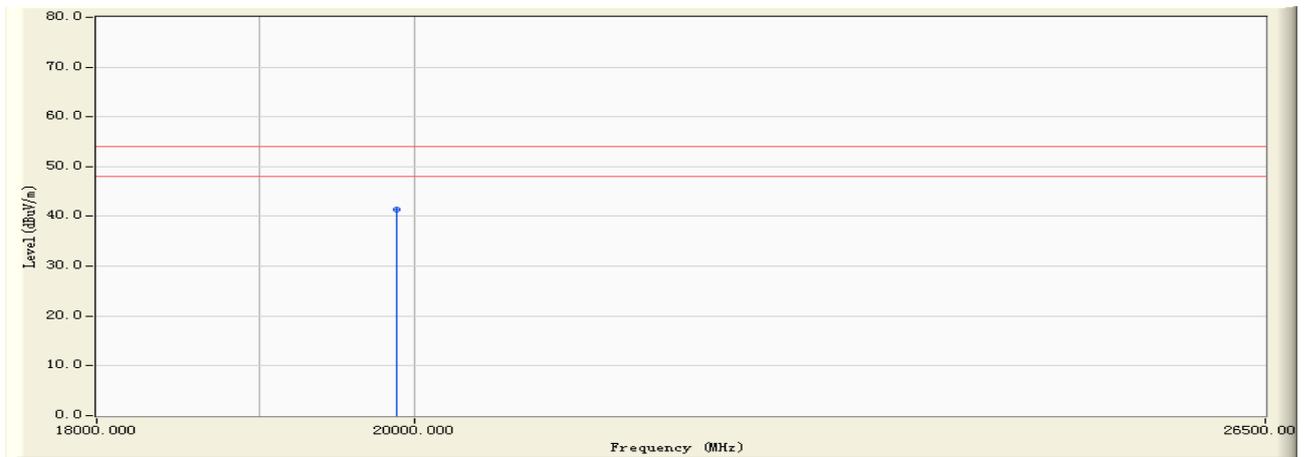
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	19874.000	9.931	49.630	59.561	-14.439	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:06
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2412MHz)



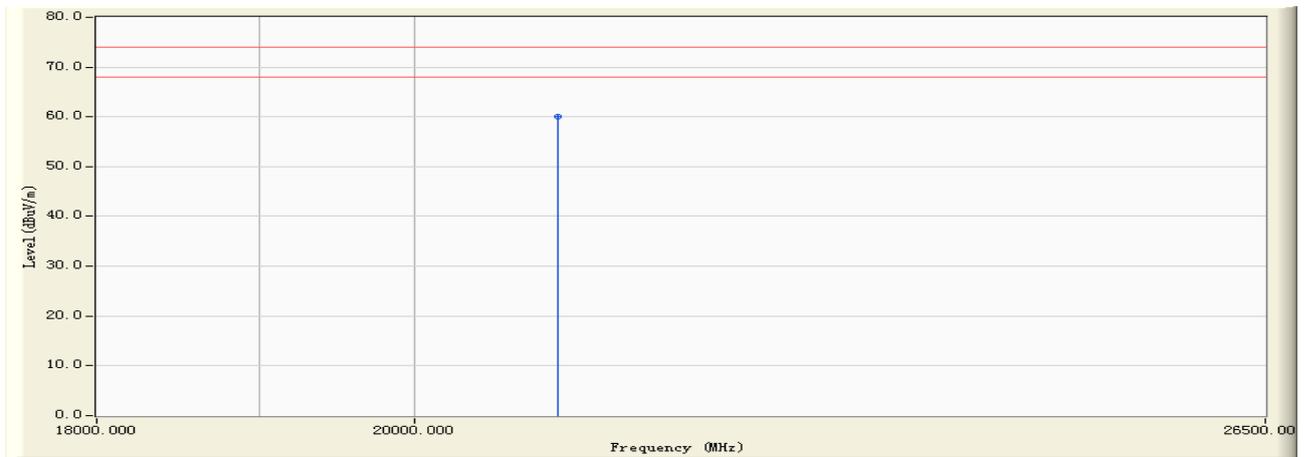
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	19874.000	9.931	31.520	41.451	-12.549	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:06
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2437MHz)



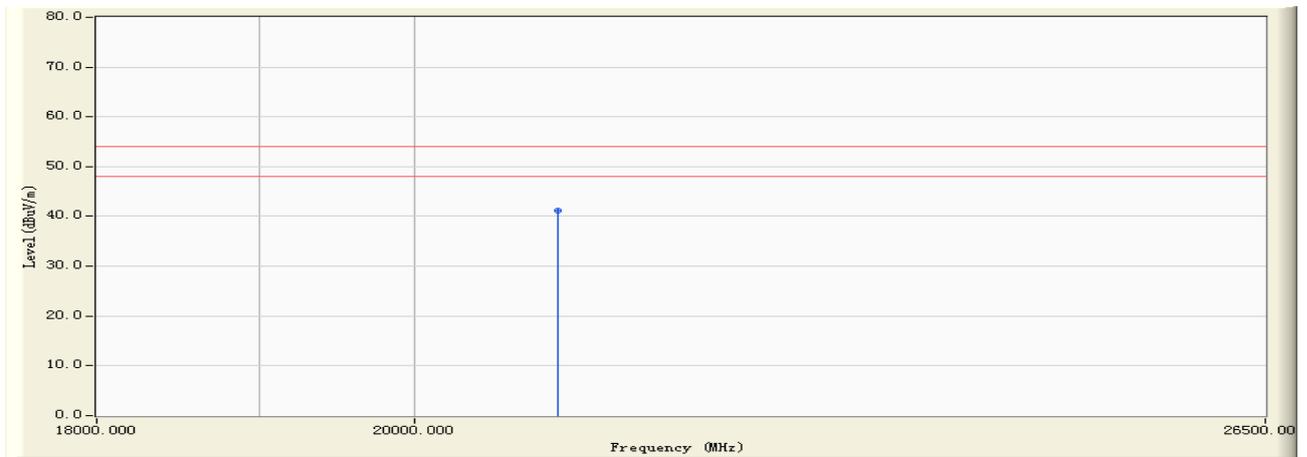
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20964.000	10.265	49.810	60.075	-13.925	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:06
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2437MHz)



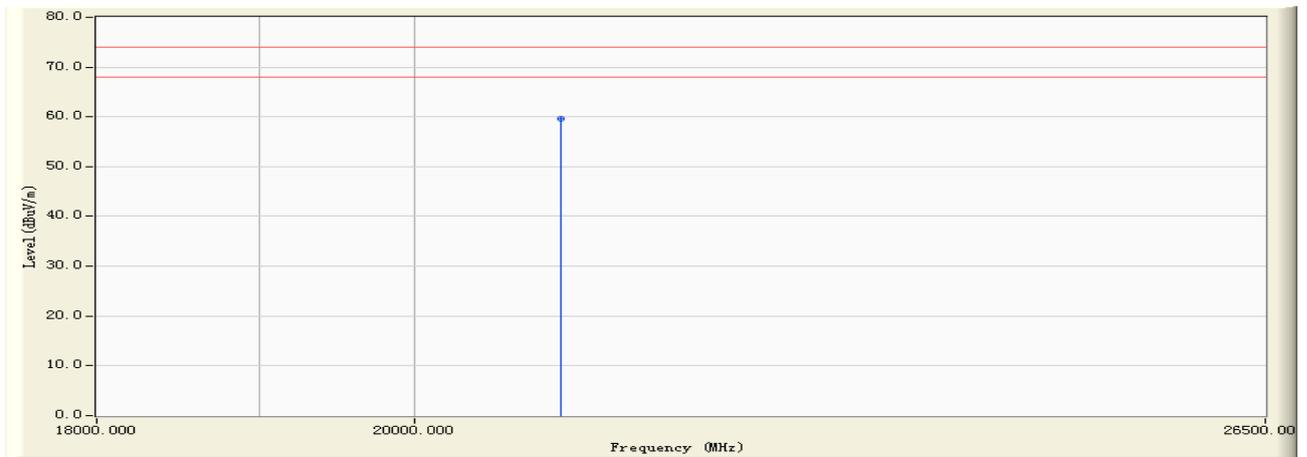
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20964.000	10.265	30.870	41.135	-12.865	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:07
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2437MHz)



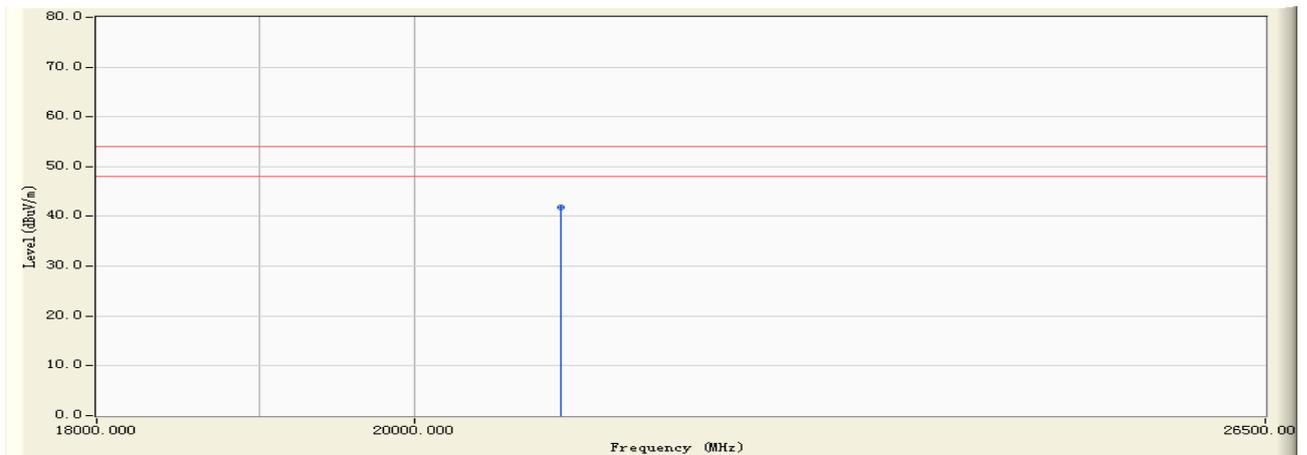
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20984.000	10.286	49.310	59.597	-14.403	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:07
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2437MHz)



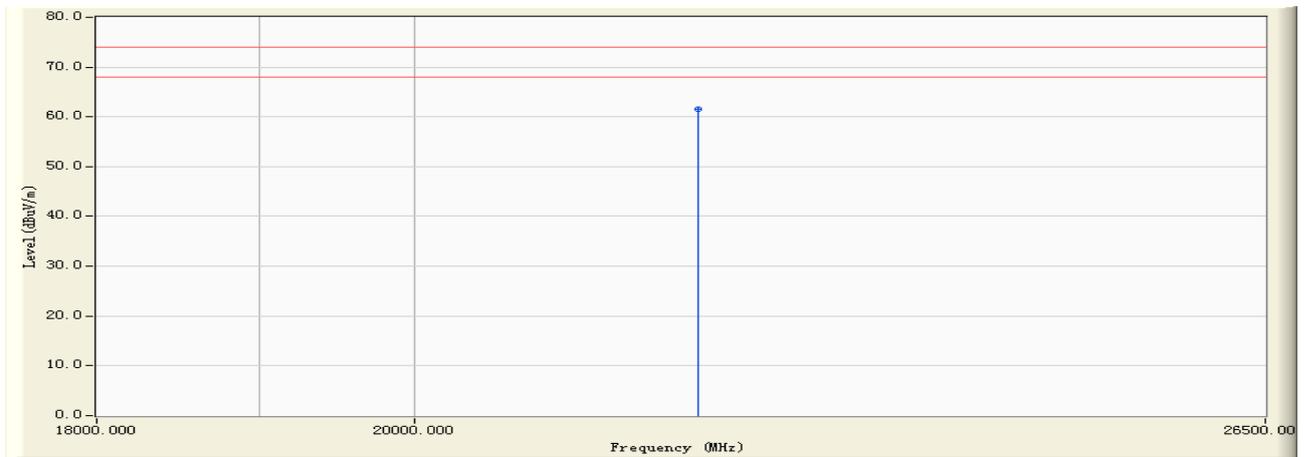
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20984.000	10.286	31.560	41.847	-12.153	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:07
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2462MHz)



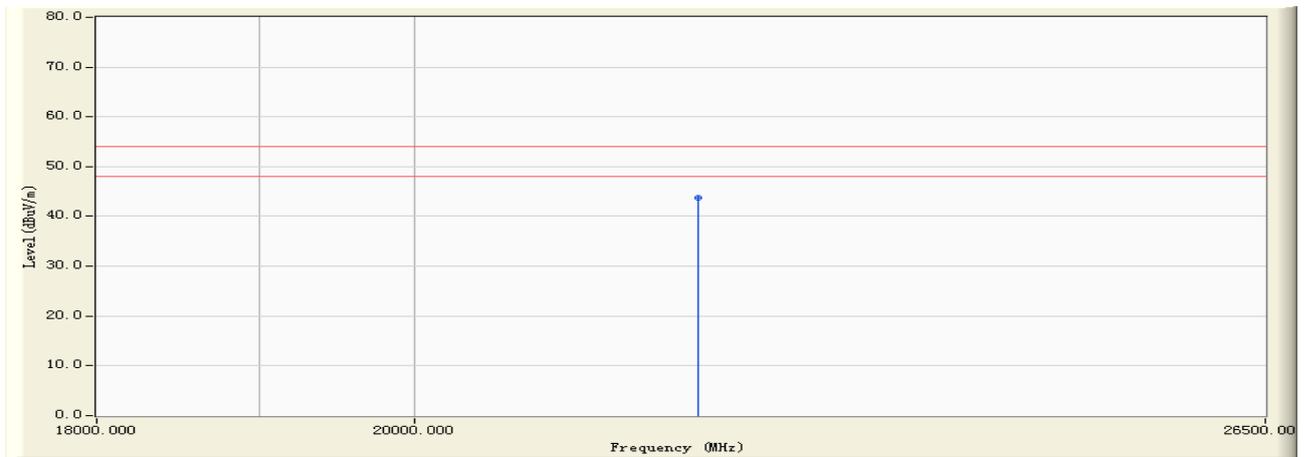
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21964.000	12.207	49.340	61.547	-12.453	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:07
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2462MHz)



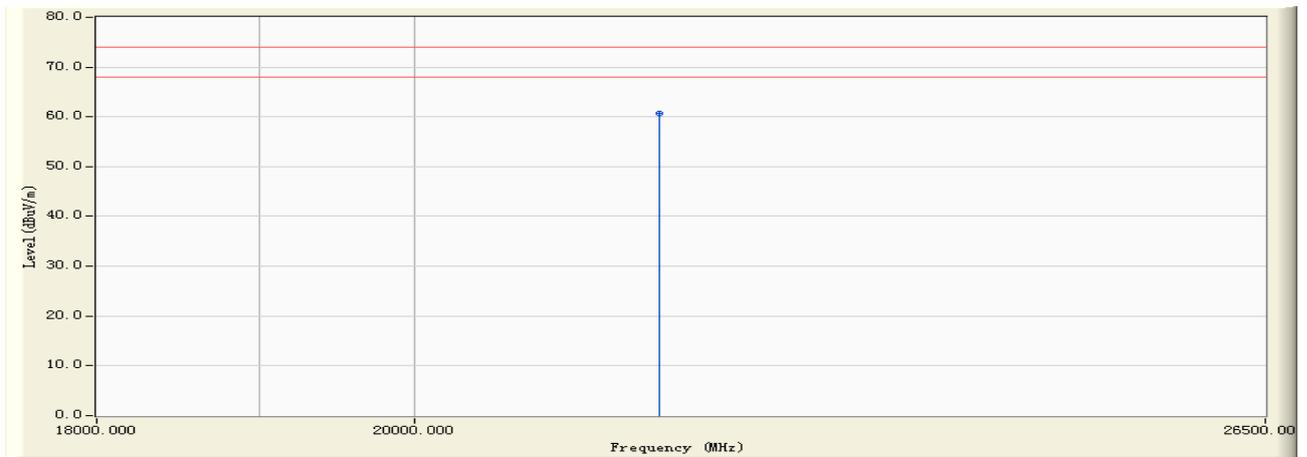
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21964.000	12.207	31.570	43.777	-10.223	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:08
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2462MHz)



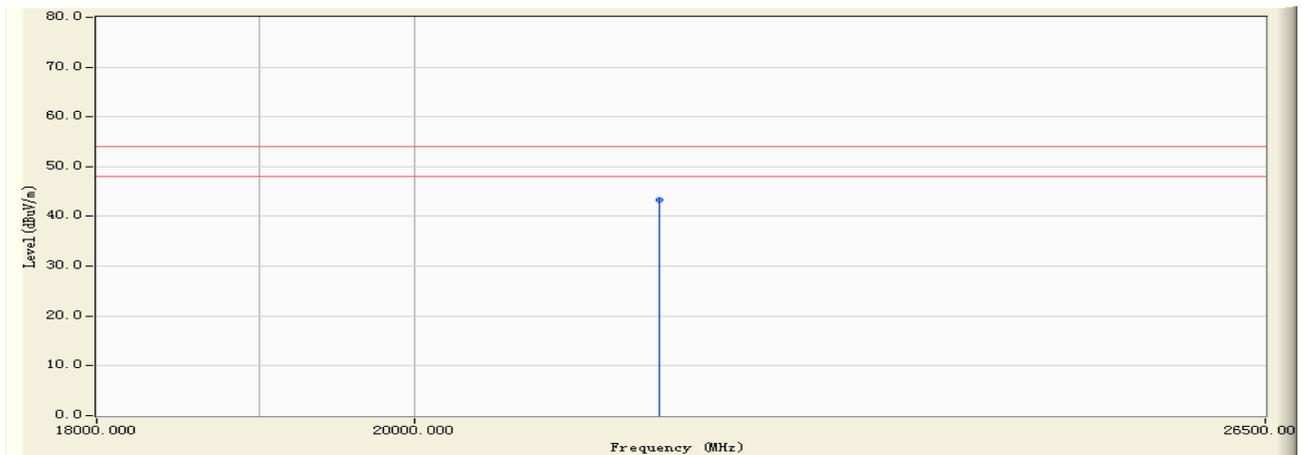
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21687.000	11.622	48.990	60.612	-13.388	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:08
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2462MHz)



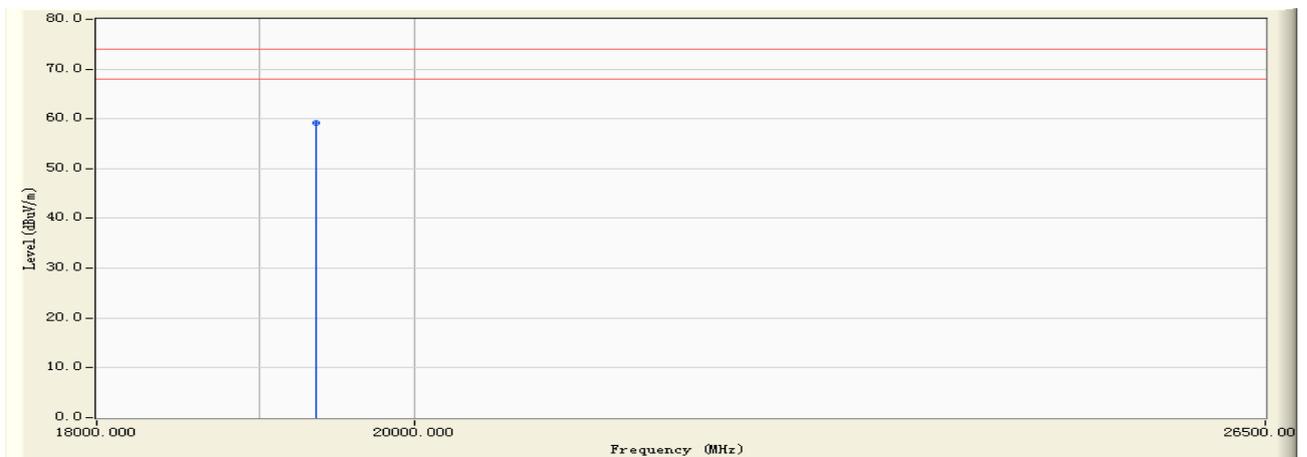
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21687.000	11.622	31.620	43.242	-10.758	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:09
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2422MHz)



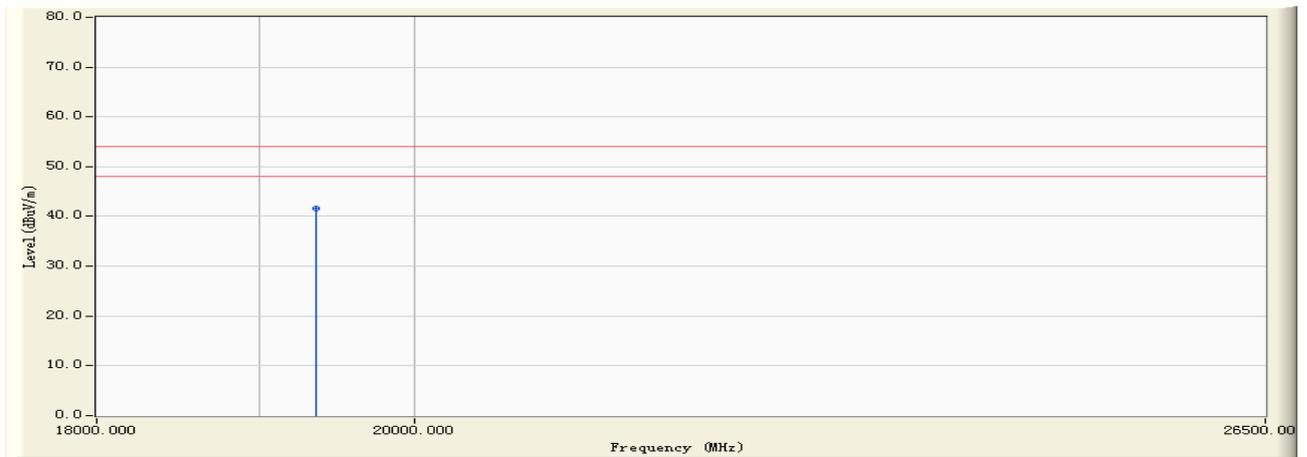
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	19351.000	9.919	49.350	59.269	-14.731	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:09
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2422MHz)



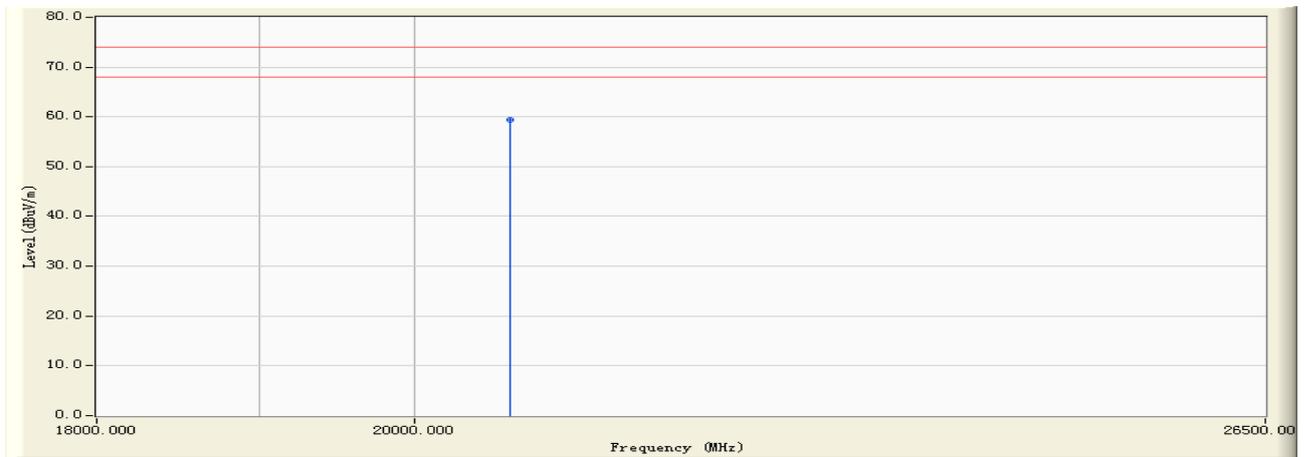
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	19351.000	9.919	31.670	41.589	-12.411	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:09
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2422MHz)



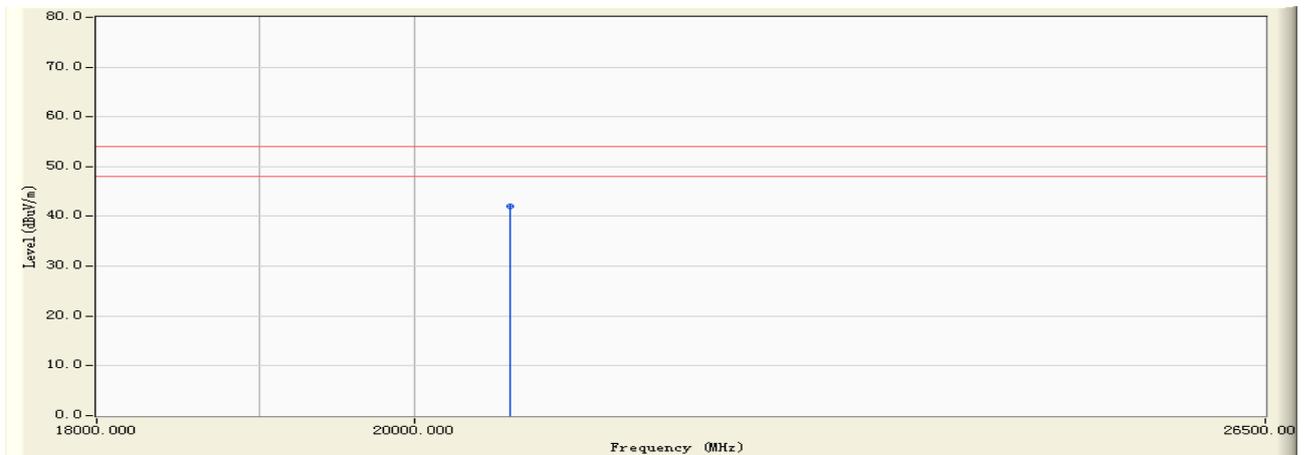
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20638.000	9.973	49.370	59.344	-14.656	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:09
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2422MHz)



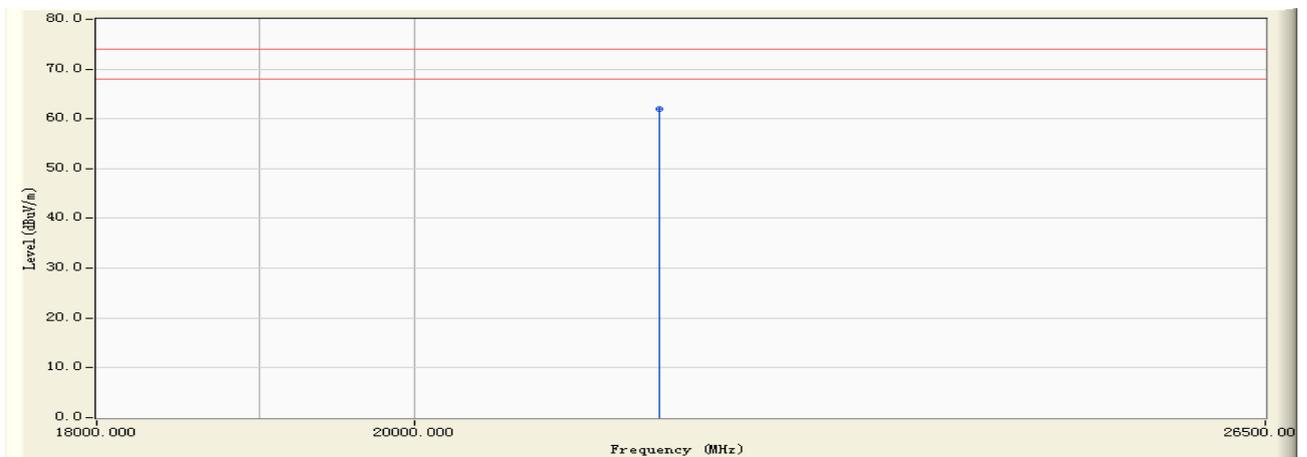
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20638.000	9.973	32.060	42.034	-11.966	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:10
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2437MHz)



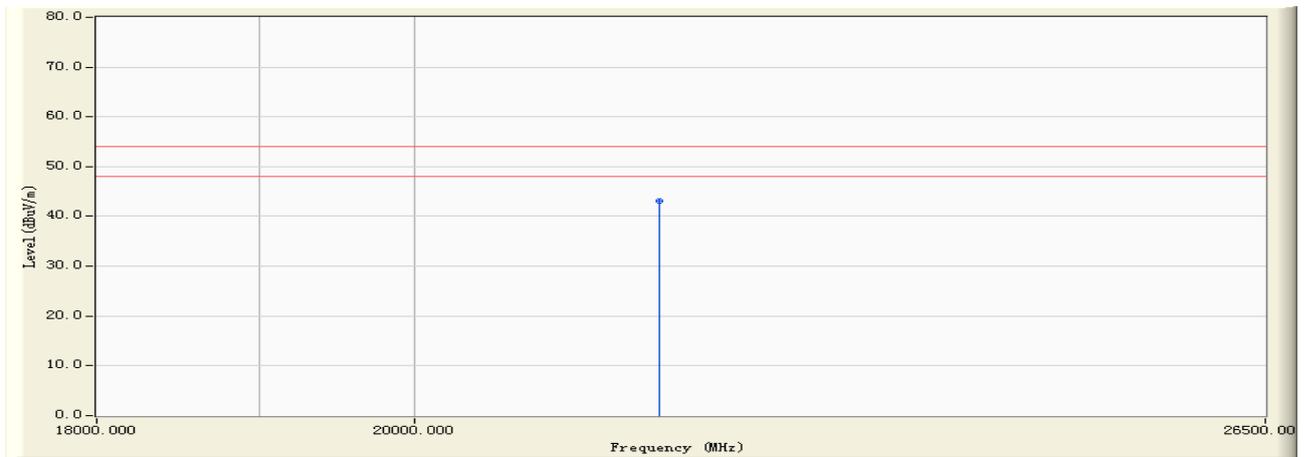
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21684.000	11.618	50.310	61.927	-12.073	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:10
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2437MHz)



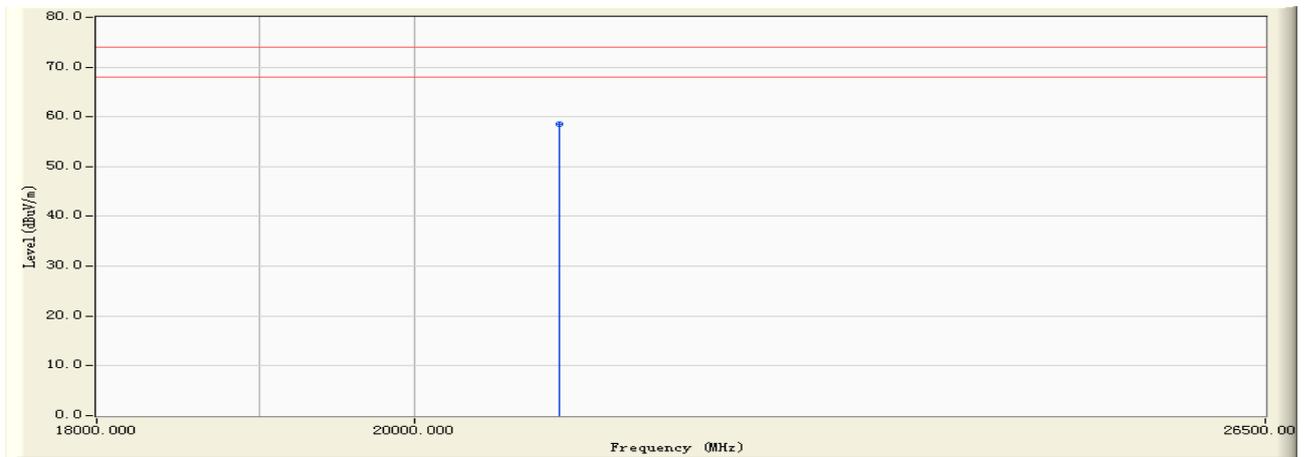
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21684.000	11.618	31.570	43.187	-10.813	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:11
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2437MHz)



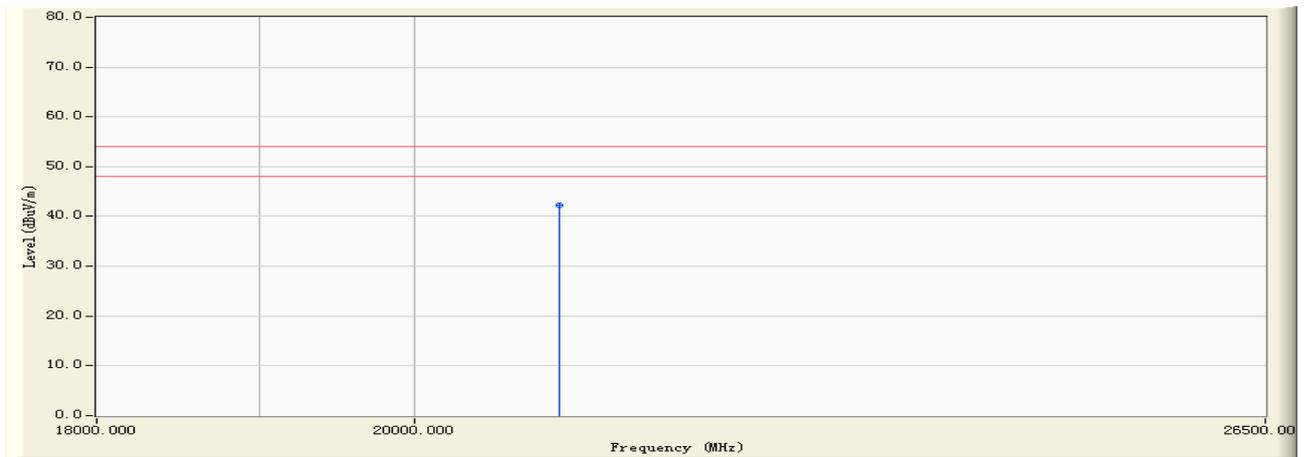
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20976.000	10.278	48.330	58.608	-15.392	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:11
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2437MHz)



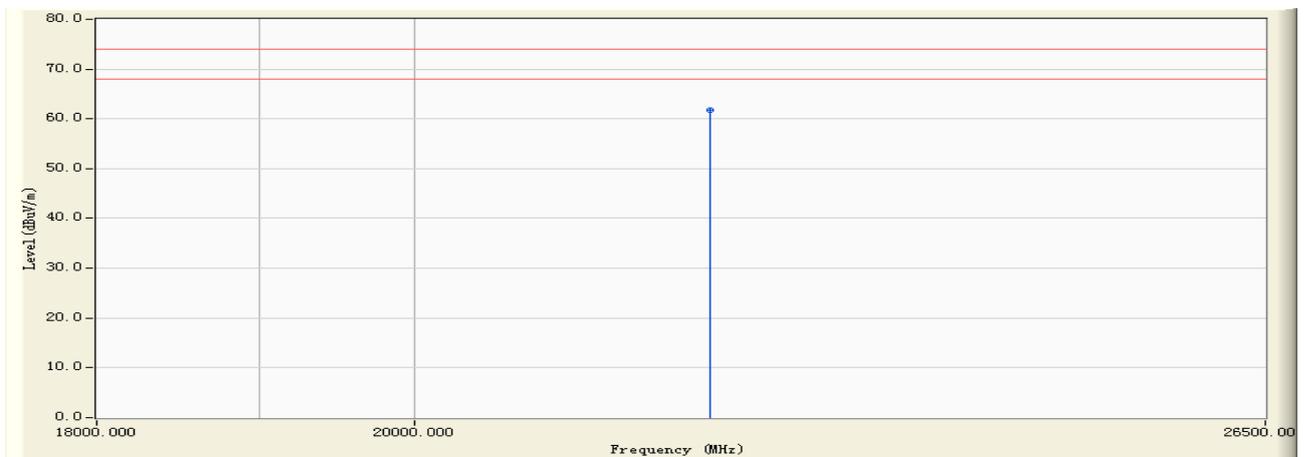
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20976.000	10.278	31.870	42.148	-11.852	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:11
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2452MHz)



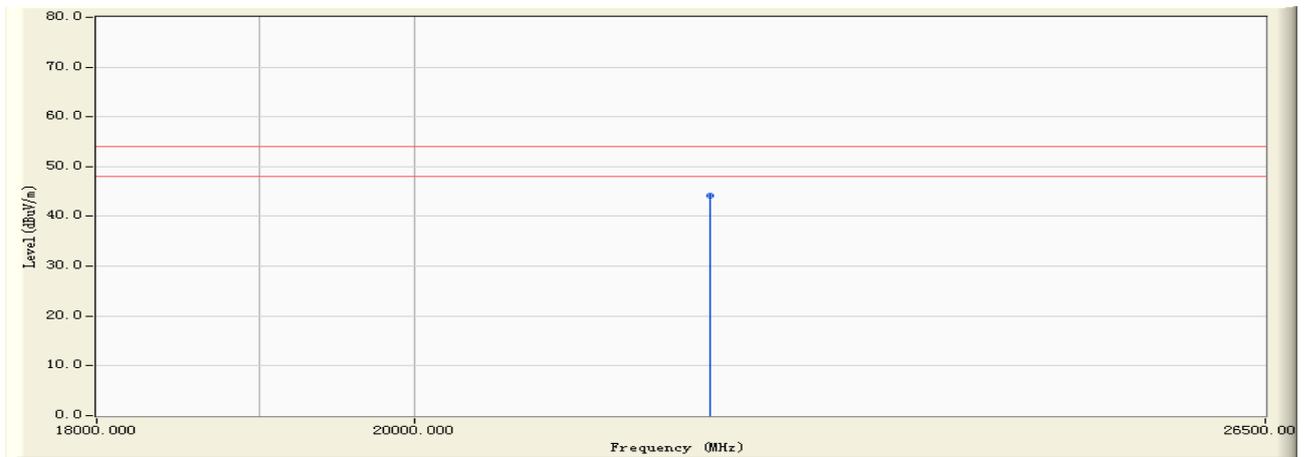
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	22057.000	12.382	49.380	61.762	-12.238	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:11
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2452MHz)



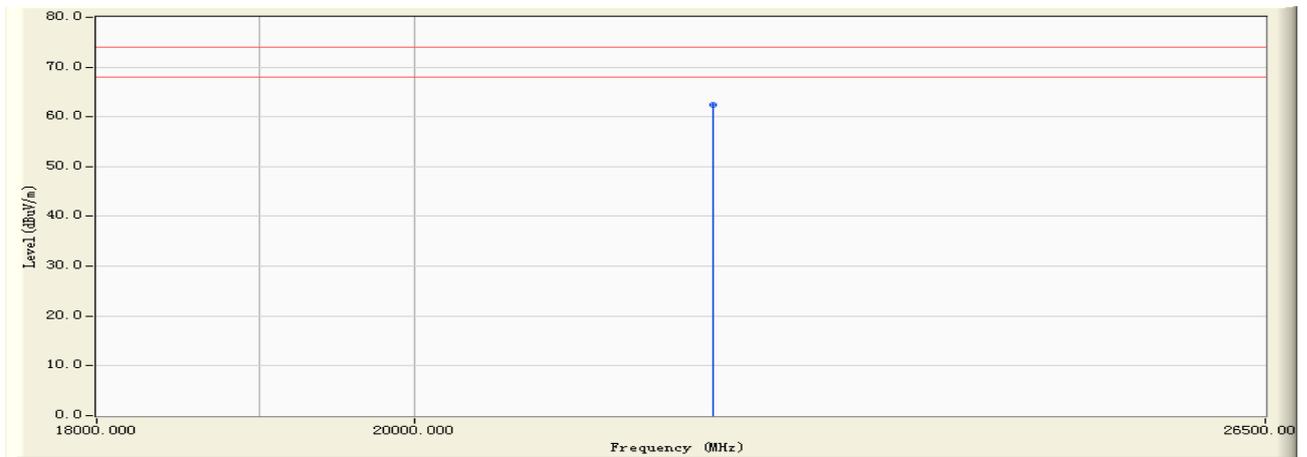
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	22057.000	12.382	31.860	44.242	-9.758	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:12
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2452MHz)



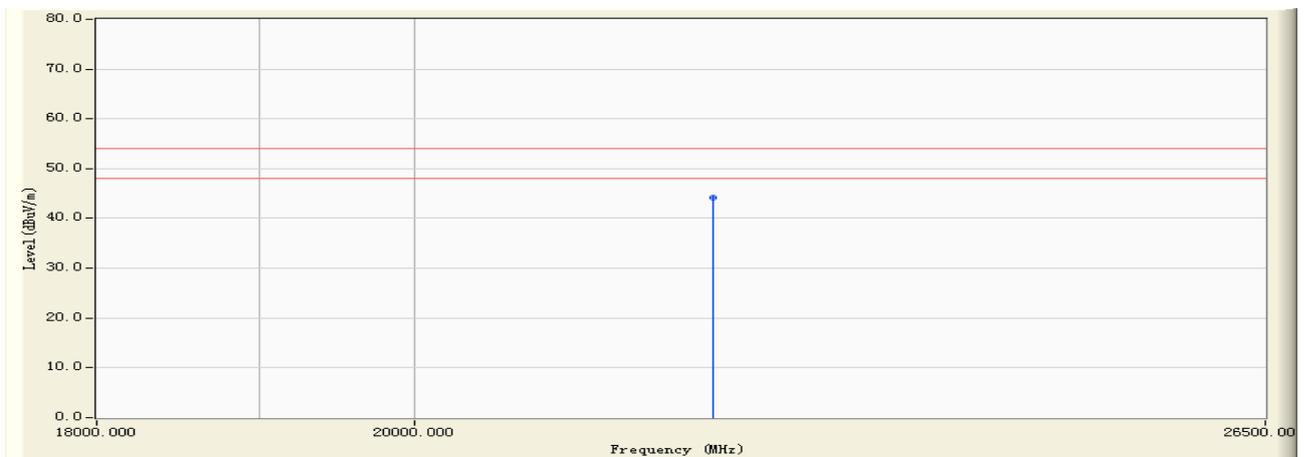
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	22069.000	12.401	50.010	62.411	-11.589	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Fred	
Site : EMC Lab AC 102	Time : 2010/10/12 - 23:12
Limit : FCC_15_03M_AV	Margin : 6
EUT : Home Gateway	Probe : BBHA9170(18-26.5GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2452MHz)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	22069.000	12.401	31.850	44.251	-9.749	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Test engineer: Fred Guo



## 5. Occupied Bandwidth

### 5.1. Test Limit

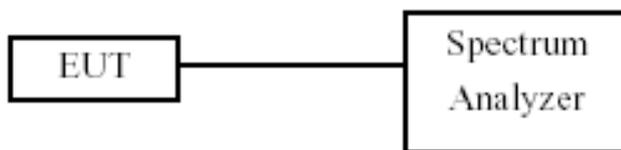
Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725- 5850 MHz band. The minimum 6 dB bandwidth shall be at least 500 kHz.

### 5.2. Test Procedures

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

### 5.3. Test Setup Layout



### 5.4. Measurement Equipment

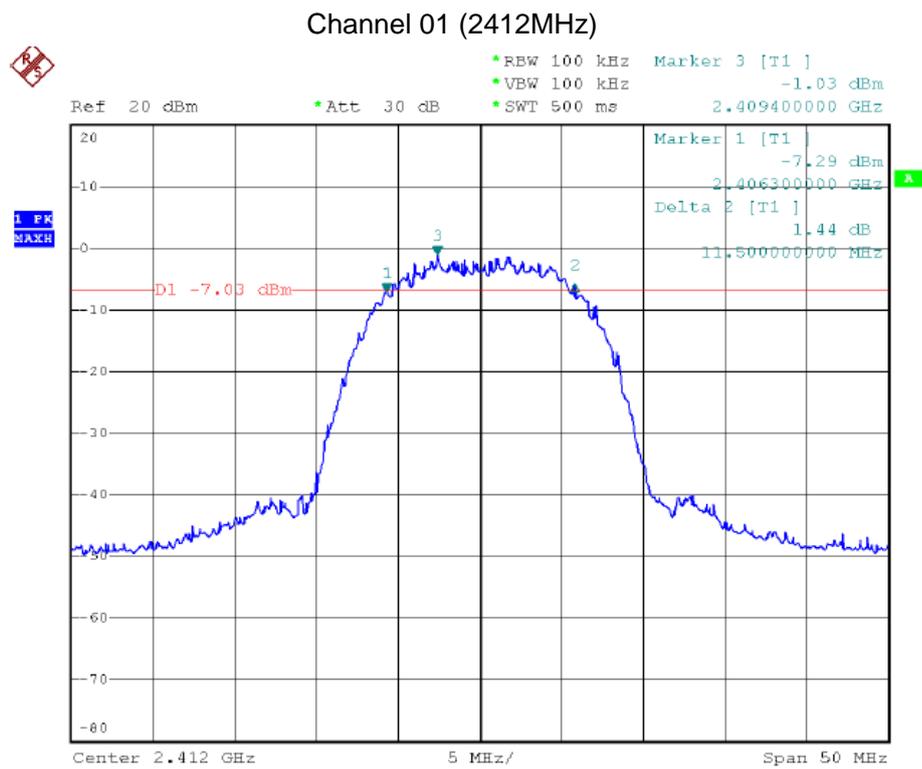
Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date
Spectrum Analyzer	R&S	FSP40	100324	2010.08.14
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2010.08.17



### 5.5. Test Result and Data

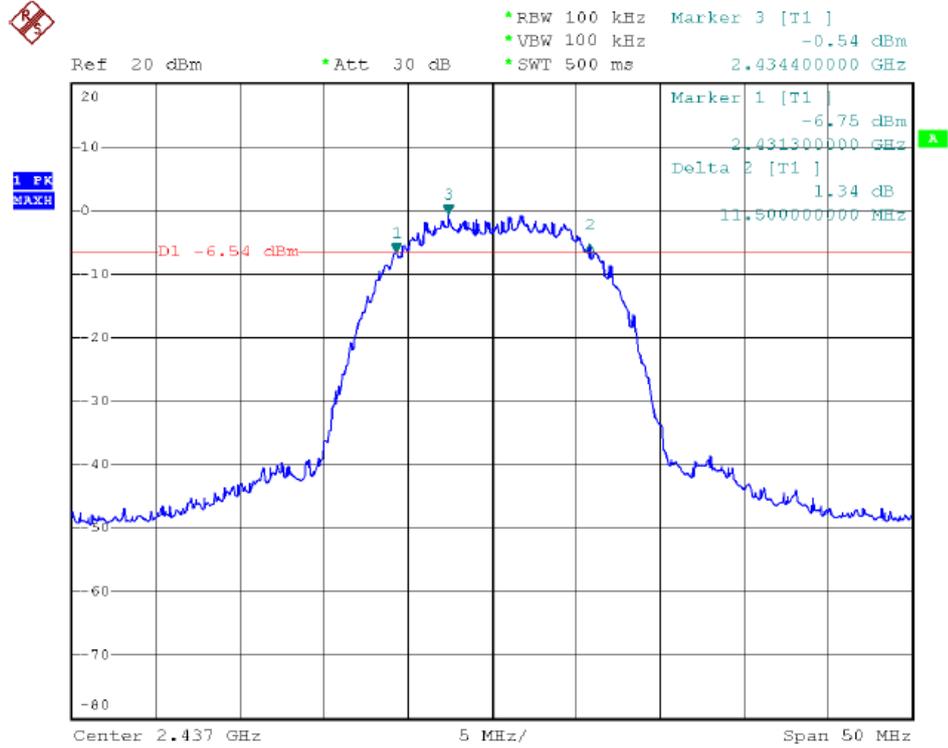
Test Item	Occupied Bandwidth
Test Mode	Mode 1:Transmit by 802.11b
Test Date	2010-10-08

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	11500	500	Pass
06	2437	11500	500	Pass
11	2462	11500	500	Pass

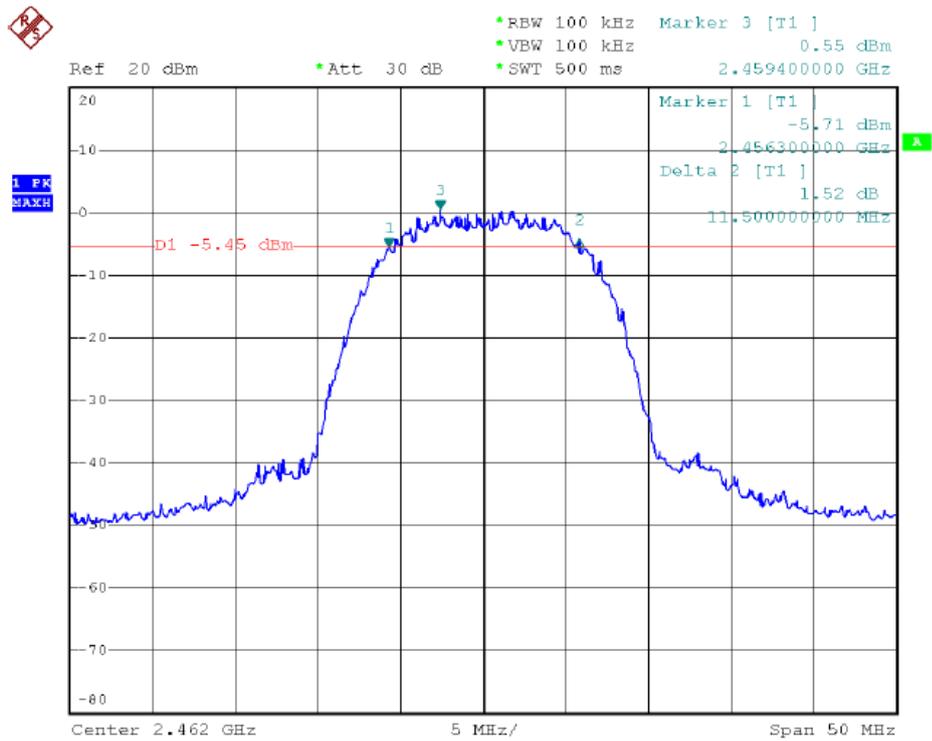




Channel 06 (2437MHz)



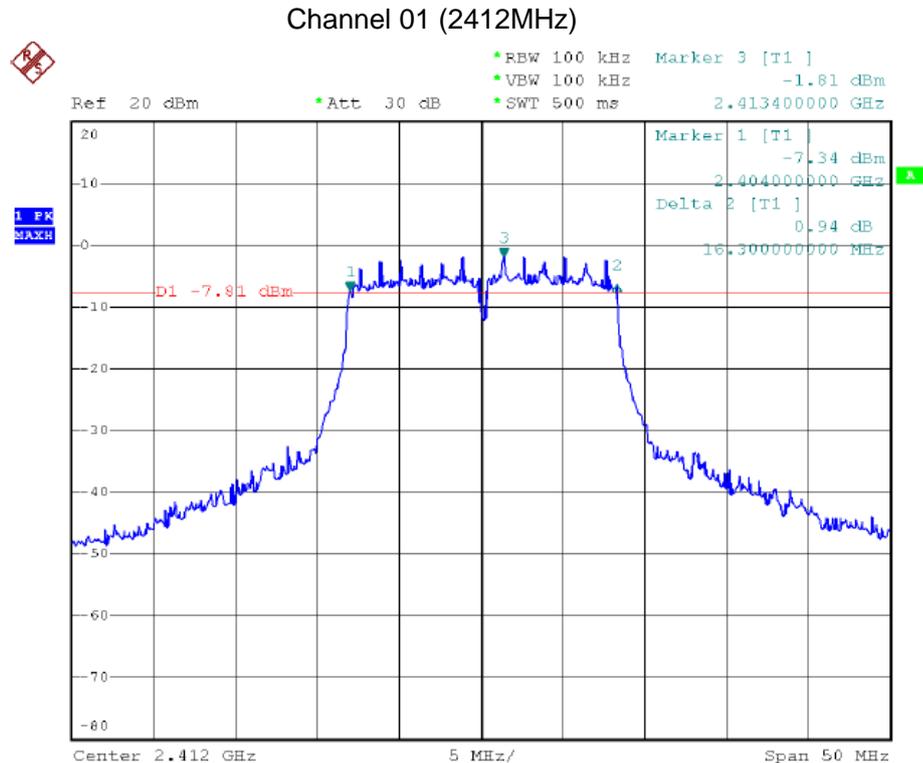
Channel 11 (2462MHz)





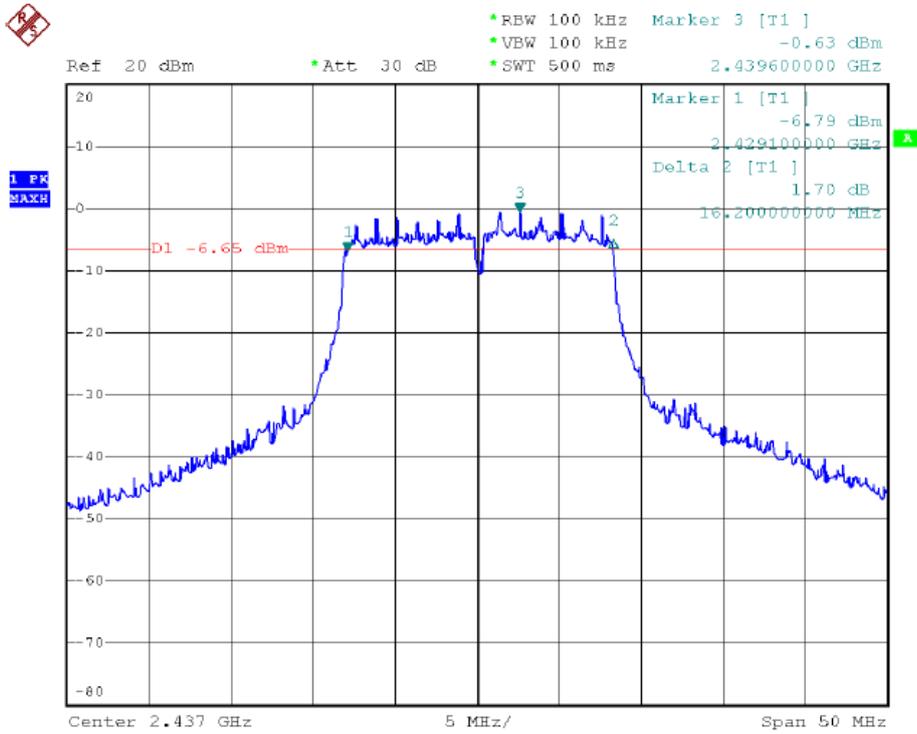
Test Item	Occupied Bandwidth
Test Mode	Mode 2:Transmit by 802.11g
Test Date	2010-10-08

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	16300	500	Pass
06	2437	16200	500	Pass
11	2462	16400	500	Pass

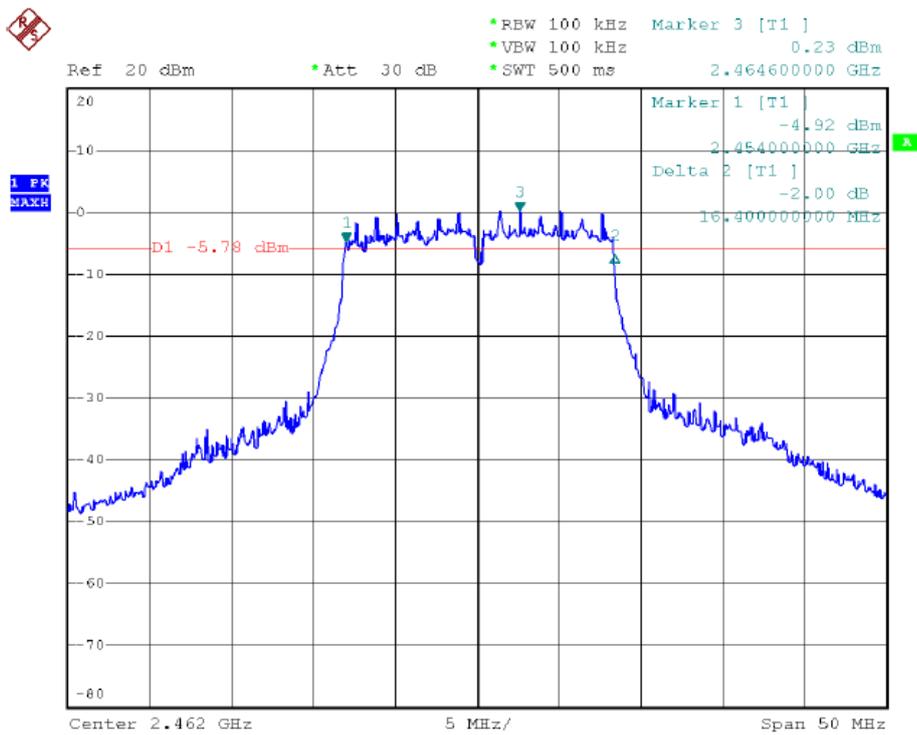




Channel 06 (2437MHz)



Channel 11 (2462MHz)

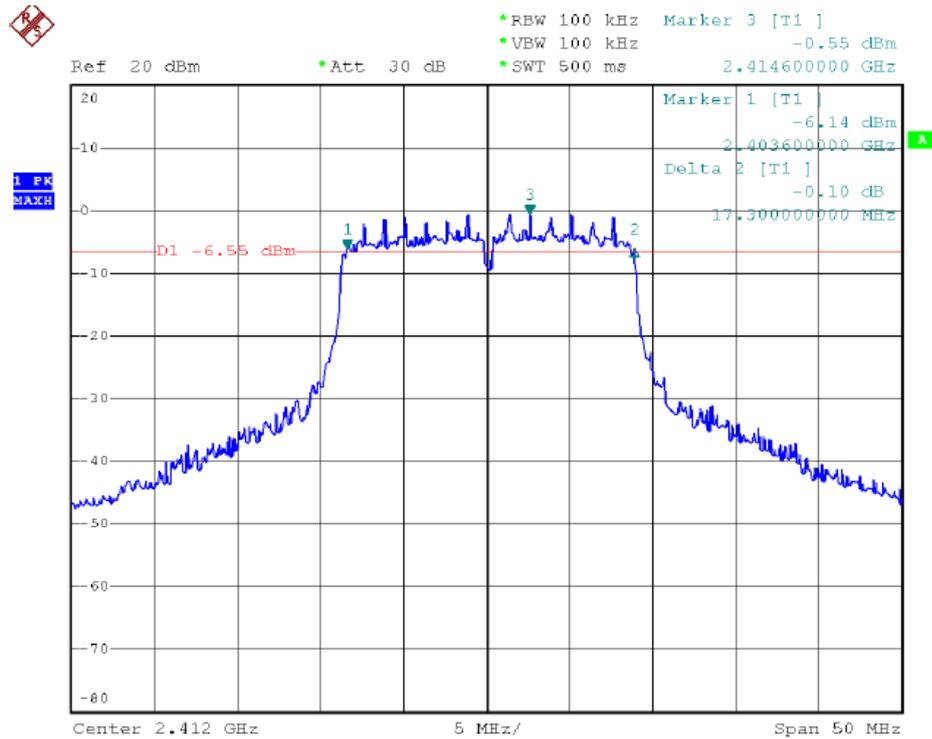




Test Item	Occupied Bandwidth
Test Mode	Mode 3: Transmit by 802.11n (20MHz)
Test Date	2010-10-08

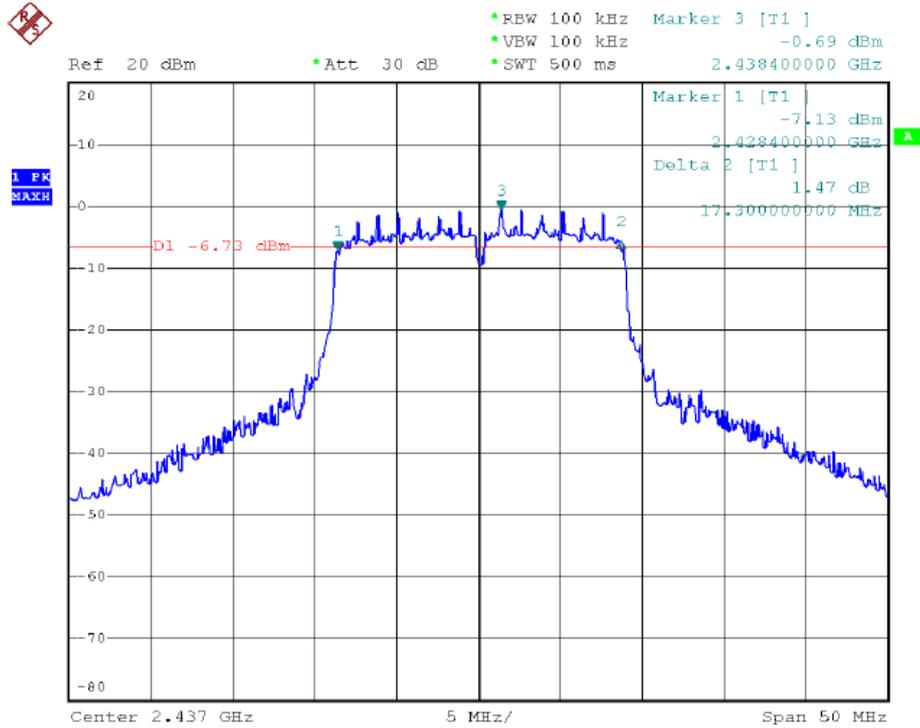
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	17300	500	Pass
06	2437	17300	500	Pass
11	2462	17100	500	Pass

Channel 01 (2412MHz)

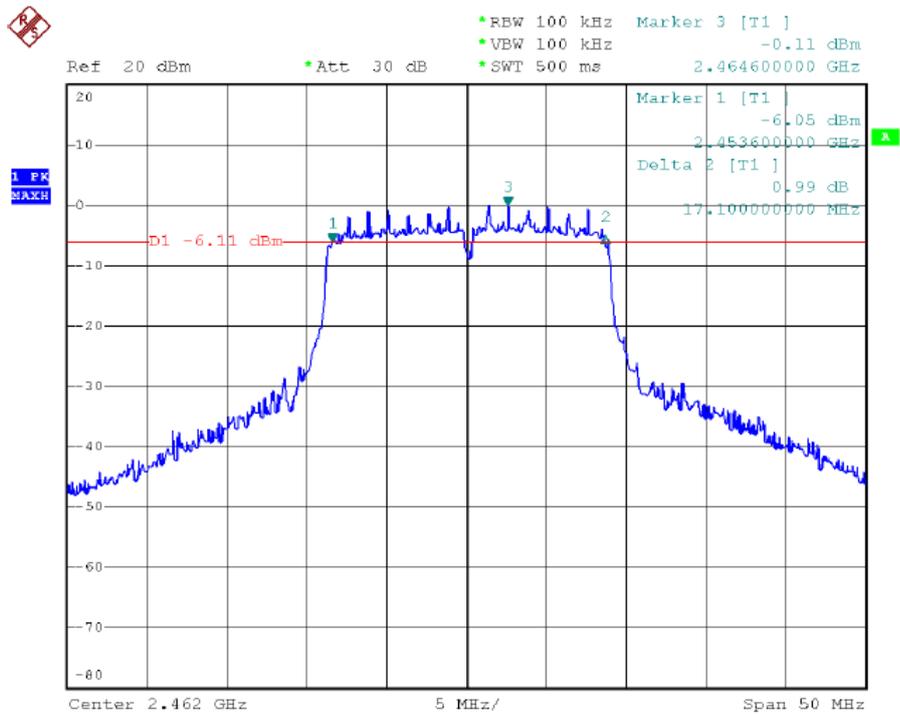




### Channel 06 (2437MHz)



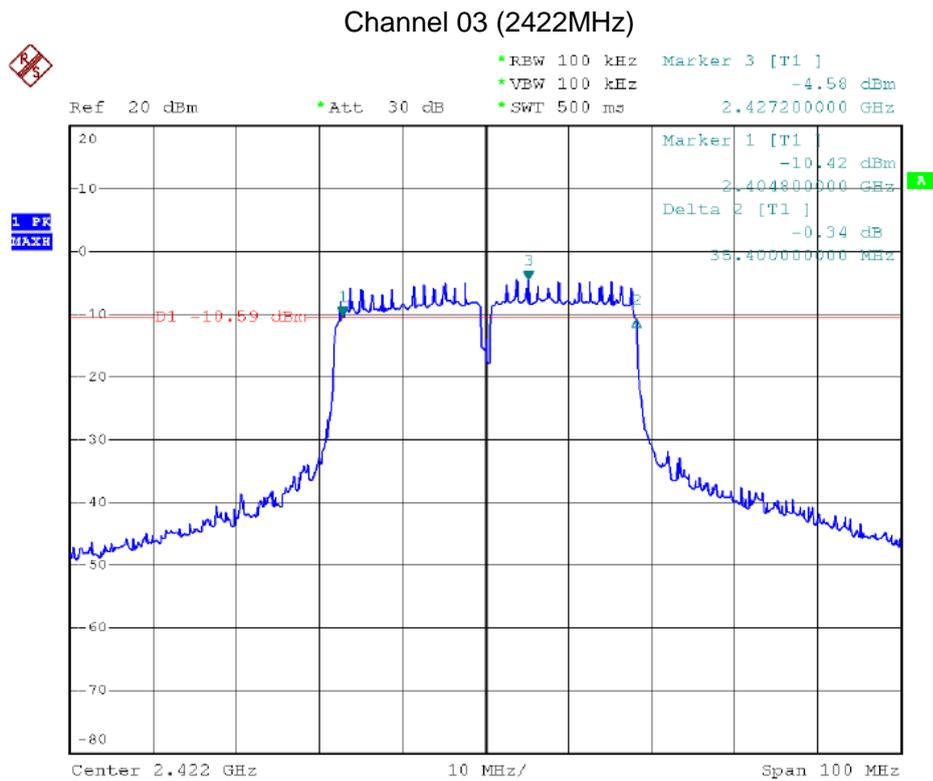
### Channel 11 (2462MHz)





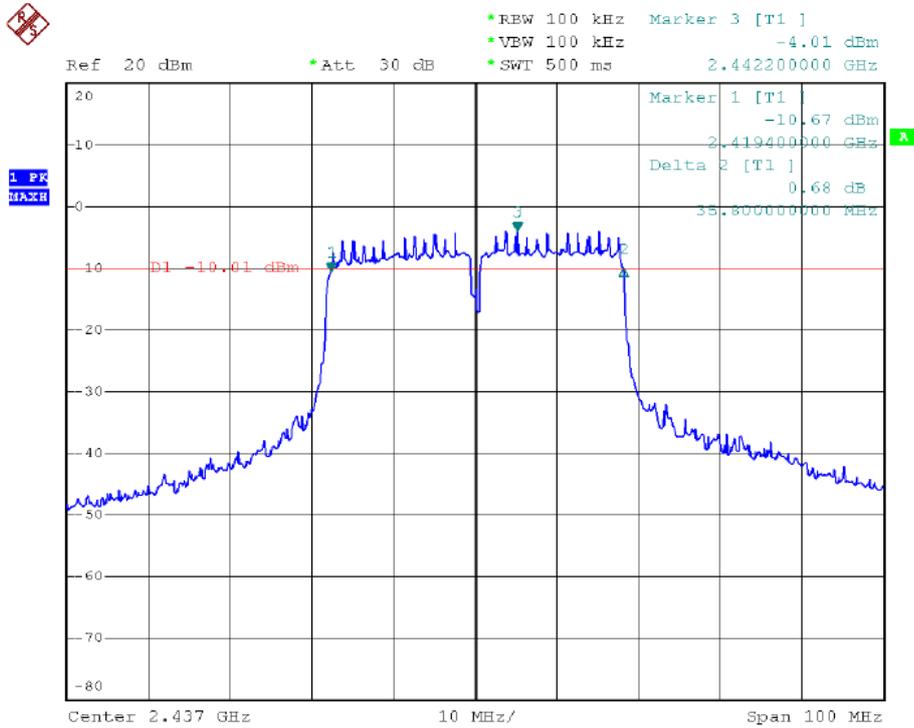
Test Item	Occupied Bandwidth
Test Mode	Mode 4: Transmit by 802.11n (40MHz)
Test Date	2010-10-08

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
03	2422	35400	500	Pass
06	2437	35800	500	Pass
09	2452	35800	500	Pass

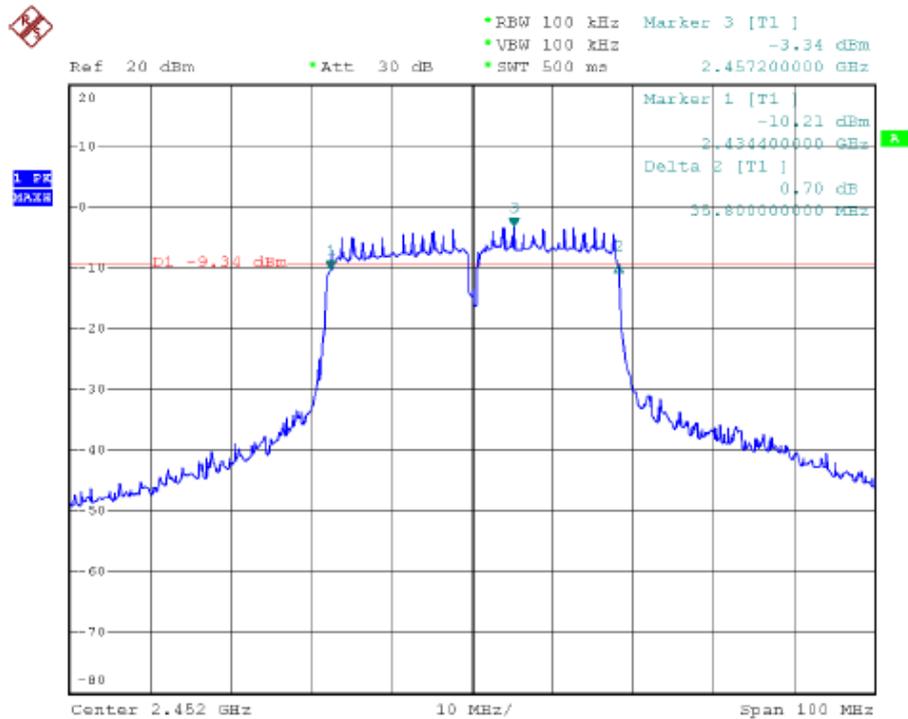




### Channel 06 (2437MHz)



### Channel 09 (2452MHz)





## 6. Maximum Peak Output Power

### 6.1. Test Limit

The maximum peak power shall be less 1Watt (30dBm).

The conducted output power limit is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of standard FCC part 15.247, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6 dBi.

### 6.2. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

In the following, "T" is the transmission pulse duration over which the transmitter is on and transmitting at its maximum power control level. Measurements are performed with a spectrum analyzer. Three methods are provided to accommodate measurement limitations of the spectrum analyzer depending on signal parameters. Set resolution bandwidth (RBW) = 1 MHz. Set span to encompass the entire emission bandwidth (EBW) of the signal. Use automatic setting for analyzer sweep time (except in Method #2). Check the sweep time to determine which procedure to use.

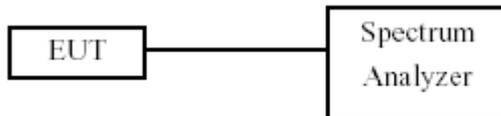
As "T"  $\geq$  sweep time, the test procedure will be used as following:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz.
3. Set VBW  $\geq$  3 MHz.
4. Use sample detector mode if bin width (i.e., span/number of points in spectrum display) < 0.5 RBW. Otherwise use peak detector mode.
5. Use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at full control power for entire sweep of every sweep. If the device transmits continuously, with no off intervals or reduced power intervals, the trigger may be set to "free run".
6. Trace average 100 traces in power averaging mode.
7. Compute power by integrating the spectrum across the 26 dB EBW of the signal. The integration can be performed using the spectrum analyzer's band power measurement function with band limits set equal to the EBW band edges or by summing power



levels in each 1 MHz band in linear power terms. The 1 MHz band power levels to be summed can be obtained by averaging, in linear power terms, power levels in each frequency bin across the 1 MHz.

### 6.3. Test Setup Layout



### 6.4. Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date
Spectrum Analyzer	R&S	FSP40	100324	2010.08.14
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2010.08.17

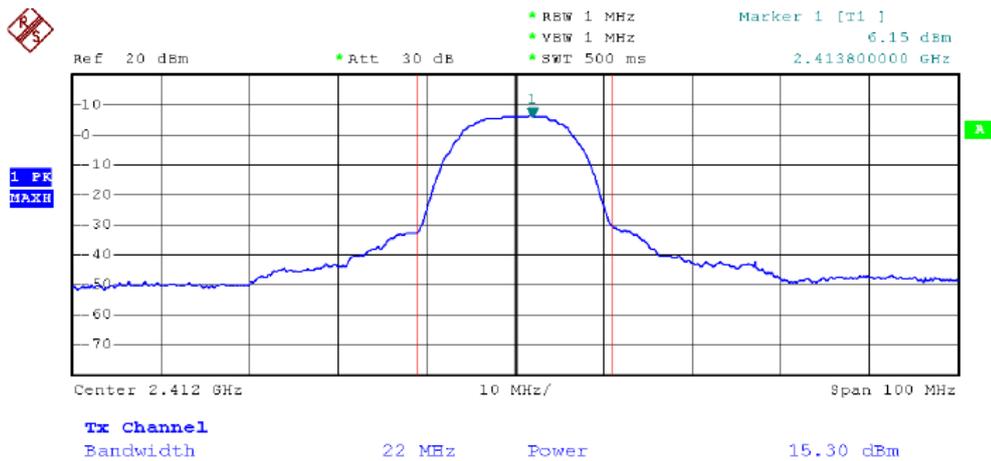


### 6.5. Test Result and Data

Test Item	Maximum Peak Output Power
Test Mode	Mode 1: Transmit by 802.11b
Test Date	2010-10-08

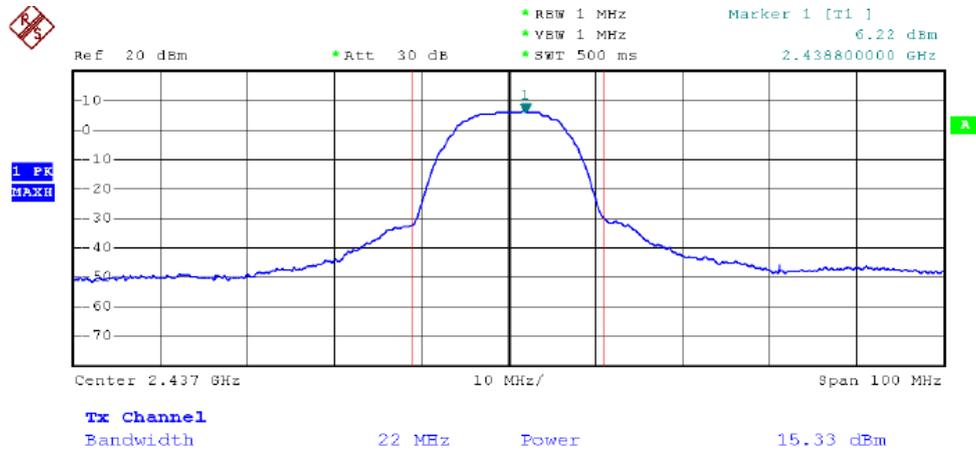
Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit (dBm)	Result
01	2412	15.30	30 dBm	Pass
06	2437	15.33	30 dBm	Pass
11	2462	16.72	30 dBm	Pass

Channel 01 (2412MHz)

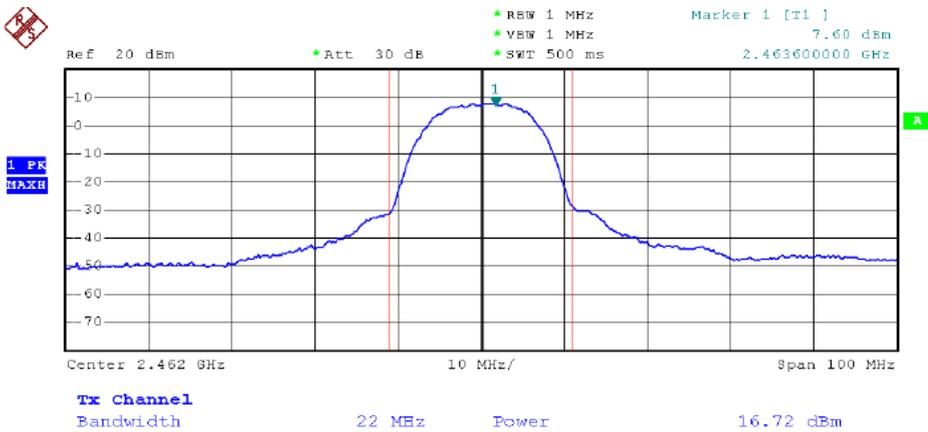




Channel 06 (2437MHz)



Channel 11 (2462MHz)

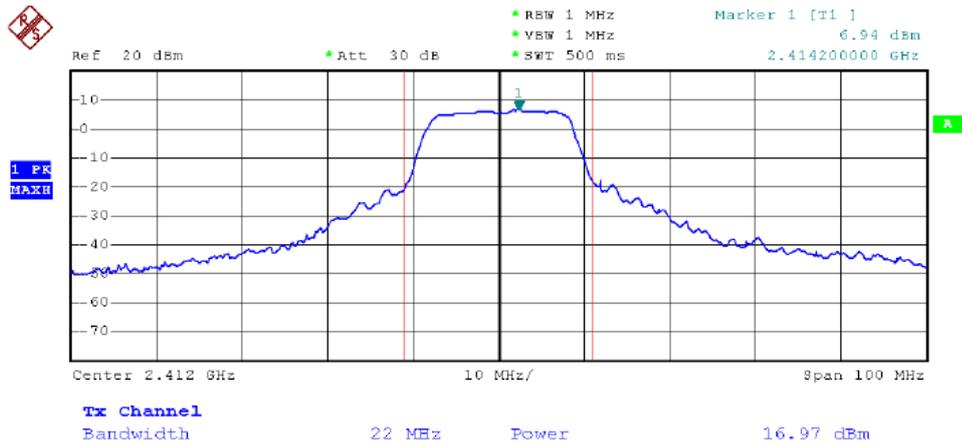




Test Item	Maximum Peak Output Power
Test Mode	Mode 2: Transmit by 802.11g
Test Date	2010-10-08

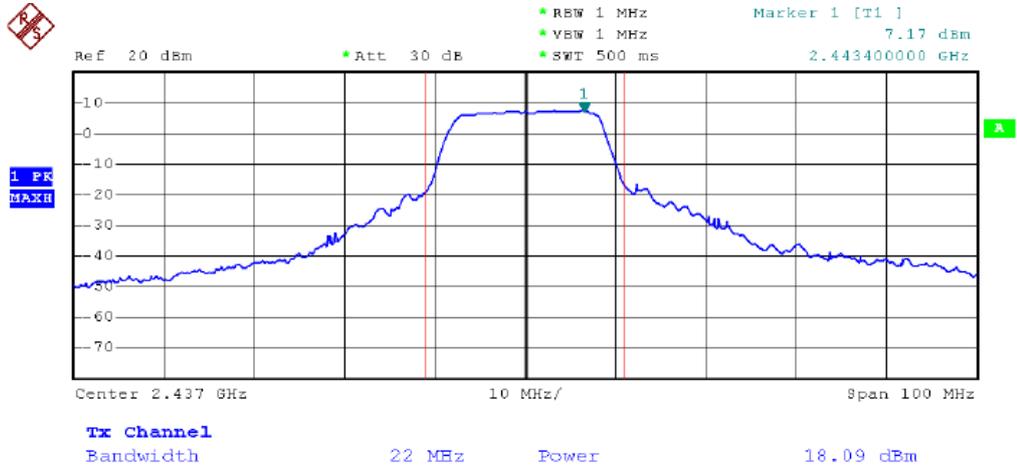
Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit (dBm)	Result
01	2412	16.97	30 dBm	Pass
06	2437	18.09	30 dBm	Pass
11	2462	19.06	30 dBm	Pass

Channel 01 (2412MHz)

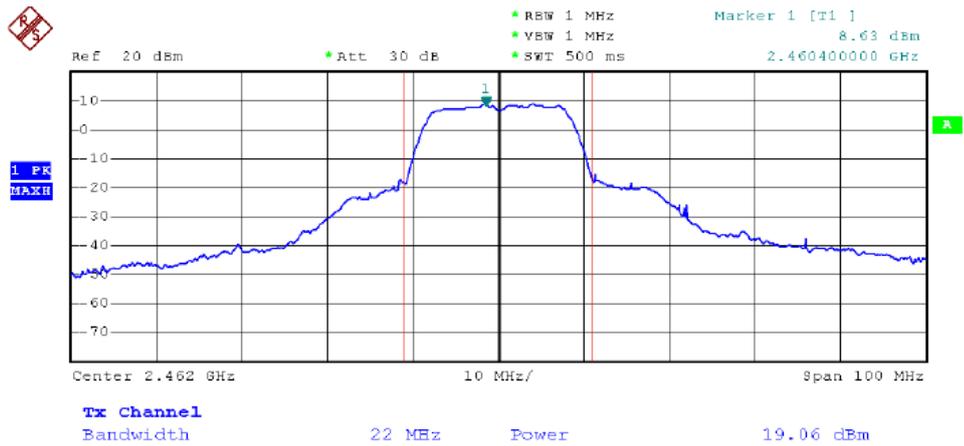




### Channel 06 (2437MHz)



### Channel 11 (2462MHz)

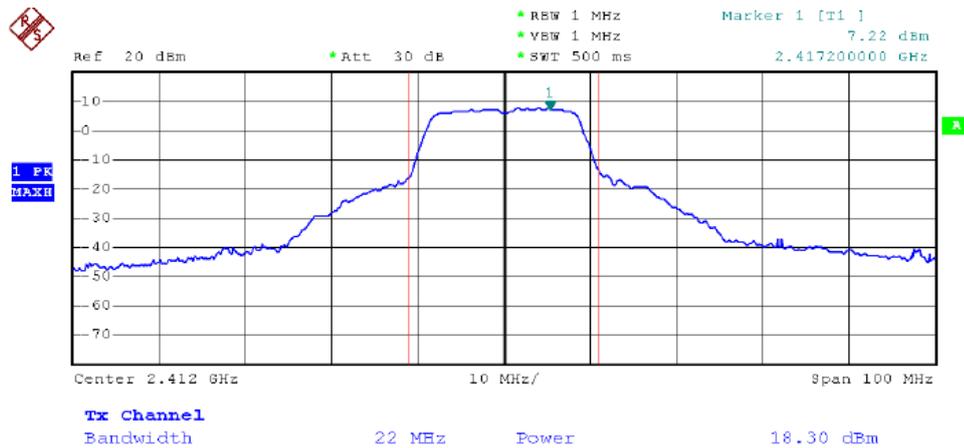




Test Item	Maximum Peak Output Power
Test Mode	Mode 3: Transmit by 802.11n (20MHz)
Test Date	2010-10-08

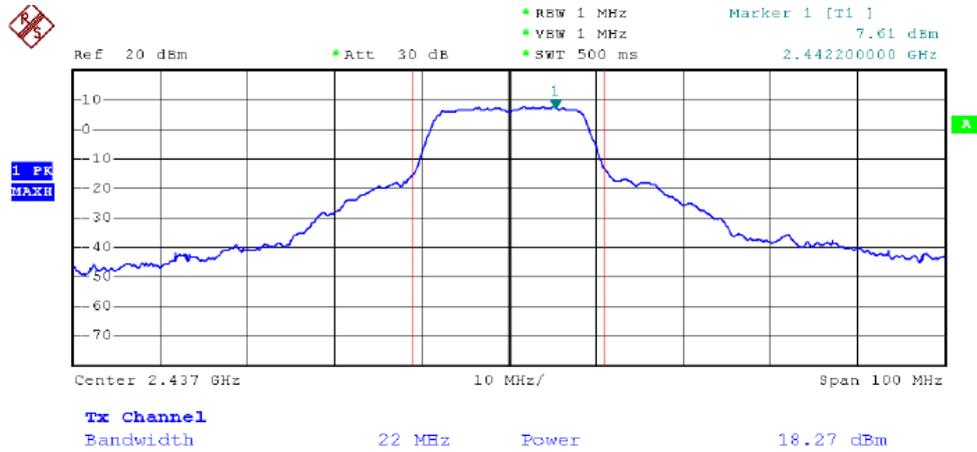
Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit (dBm)	Result
01	2412	18.30	30 dBm	Pass
06	2437	18.27	30 dBm	Pass
11	2462	18.73	30 dBm	Pass

Channel 01 (2412MHz)

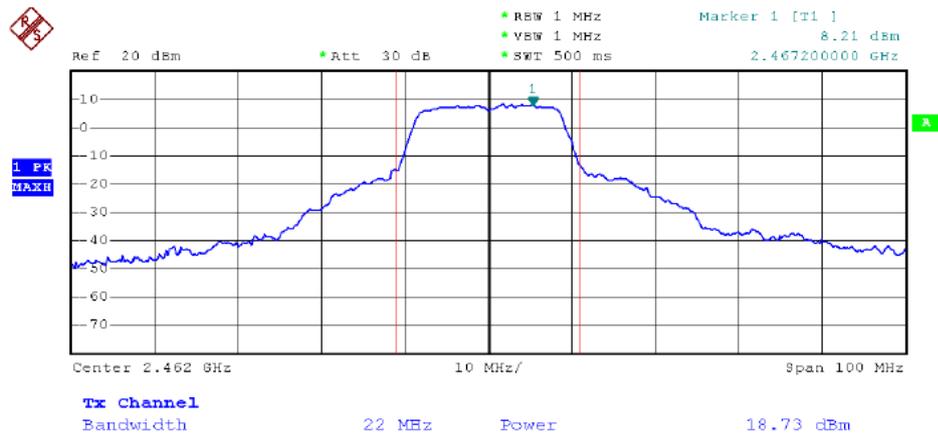




### Channel 06 (2437MHz)



### Channel 11 (2462MHz)

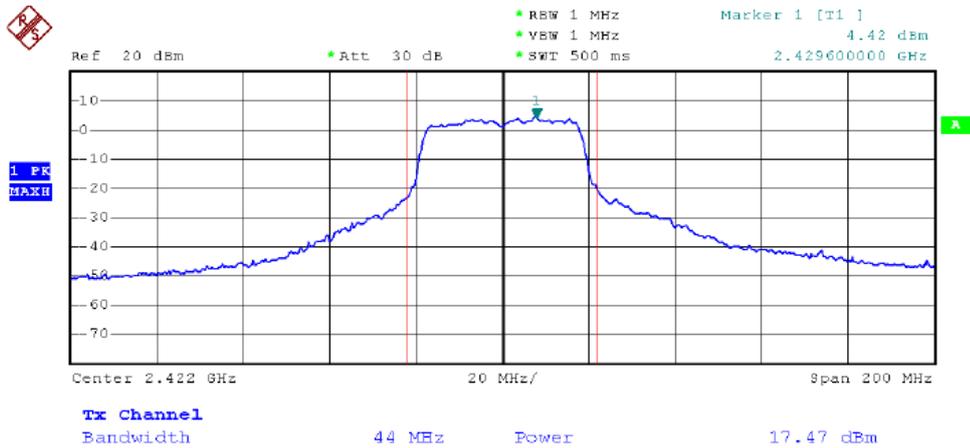




Test Item	Maximum Peak Output Power
Test Mode	Mode 4: Transmit by 802.11 n (40MHz)
Test Date	2010-10-08

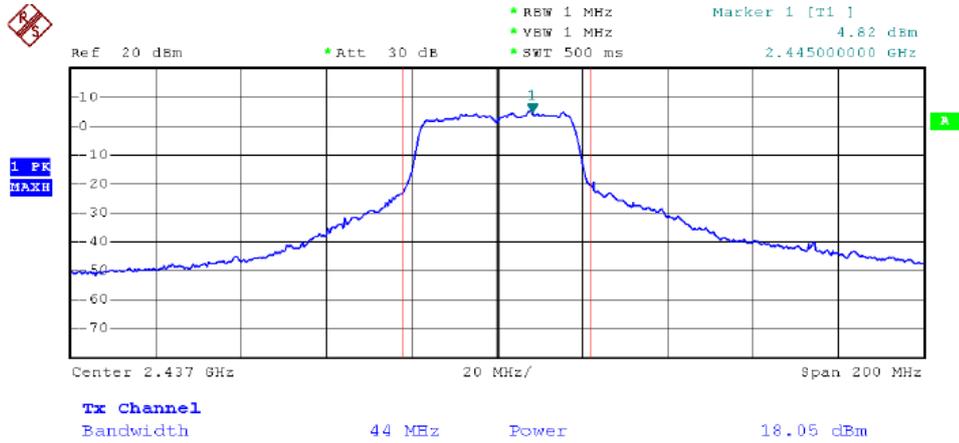
Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit (dBm)	Result
03	2422	17.47	30 dBm	Pass
06	2437	18.05	30 dBm	Pass
09	2452	18.79	30 dBm	Pass

Channel 03 (2422MHz)

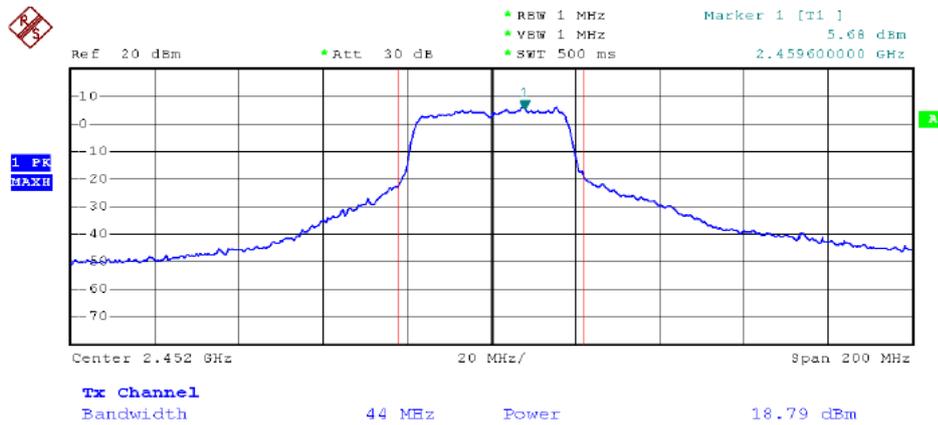




### Channel 06 (2437MHz)



### Channel 09 (2452MHz)





## 7. Band Edges

### 7.1. Test Limit

**For RF Conducted requirement:**

20 dB bandwidth of the emission is contained within the operation frequency band.

**For RF Radiated requirement:**

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

### 7.2. Test Procedure

**For RF Conducted Measurement:**

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

**For RF Radiated Measurement:**

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

The EUT is placed on a turn table which is 0.8 meter above ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

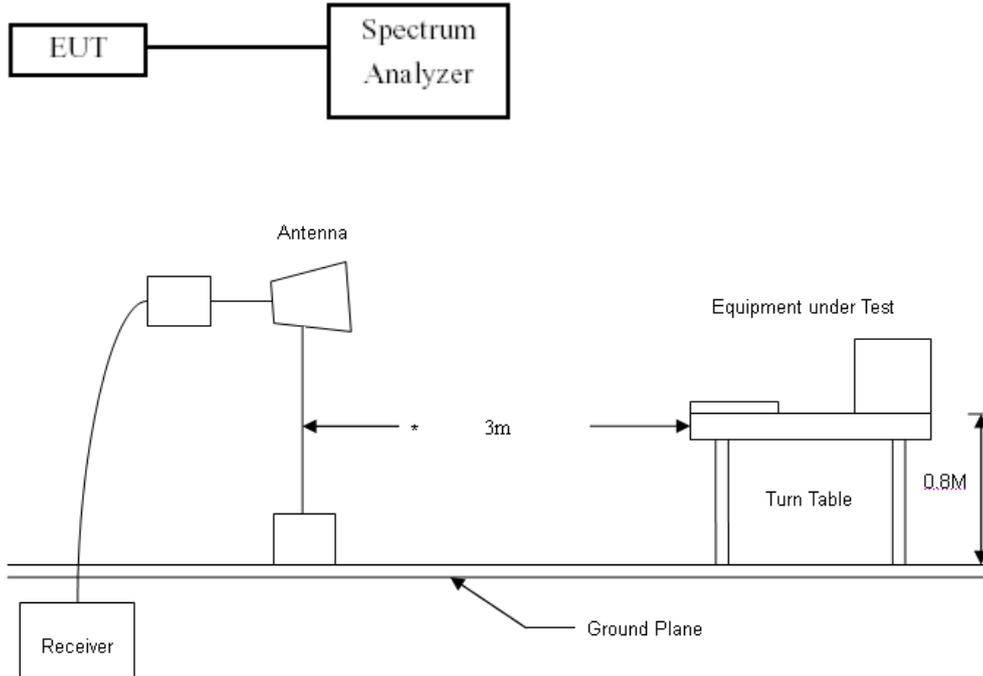
For measurements above 1GHz the resolution bandwidth is set to 1MHz, then the video bandwidth is set to 1MHz for peak measurements and 10Hz for average measurements.

The spectrum from 30MHz to 26GHz is investigated with the transmitter set to the lowest, middle and highest channels in the 2.4GHz band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are Made with the antenna polarized in both the vertical and the horizontal positions.



### 7.3. Test Setup Layout



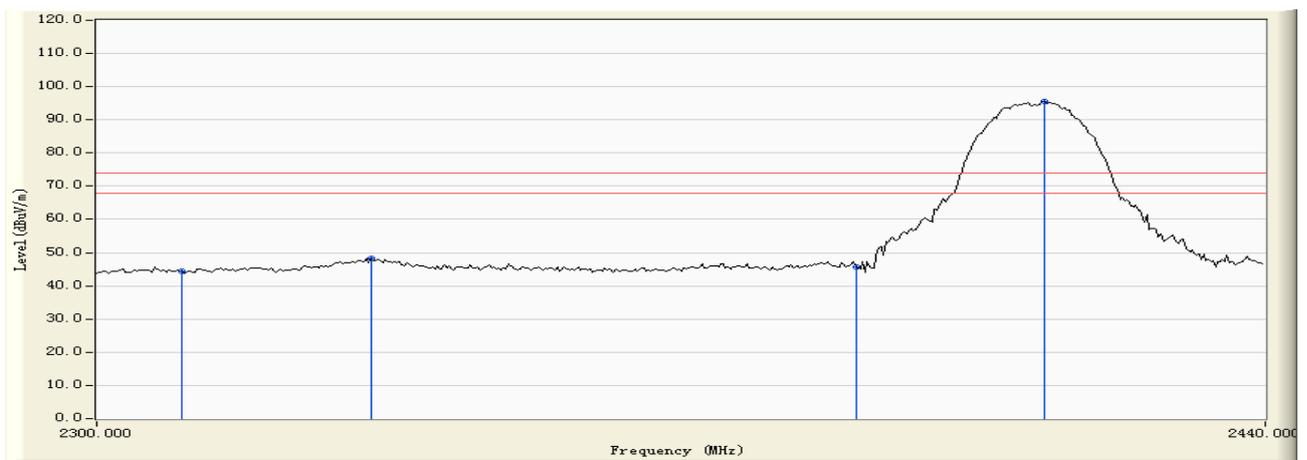
### 7.4. Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date
Spectrum Analyzer	R&S	FSP40	100324	2010.08.14
H64 Amplifier	HP	8447F	3113A05582	2010.08.14
Preamplifier	Agilent	8449B	ED-HE-EMI-077	2010.02.10
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-619	2009.11.10
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2010.08.17



### 7.5. Test Result and Data

Engineer : Alice	
Site : EMC Lab AC 102	Time : 2010/10/12 - 19:42
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2412MHz)



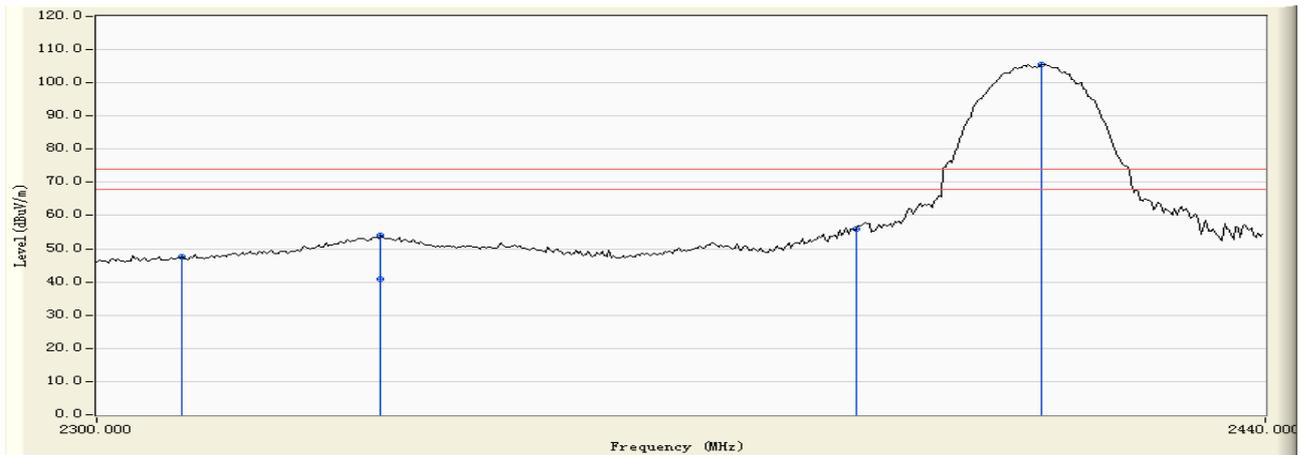
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	0.188	44.049	44.238	-29.762	74.000	PEAK
2		2332.136	0.238	48.145	48.383	-25.617	74.000	PEAK
3		2390.000	0.358	45.309	45.667	-28.333	74.000	PEAK
4	*	2412.894	0.432	95.068	95.500	N/A	N/A	PEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor



Engineer : Alice	
Site : EMC Lab AC 102	Time : 2010/10/12 - 19:43
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2412MHz)



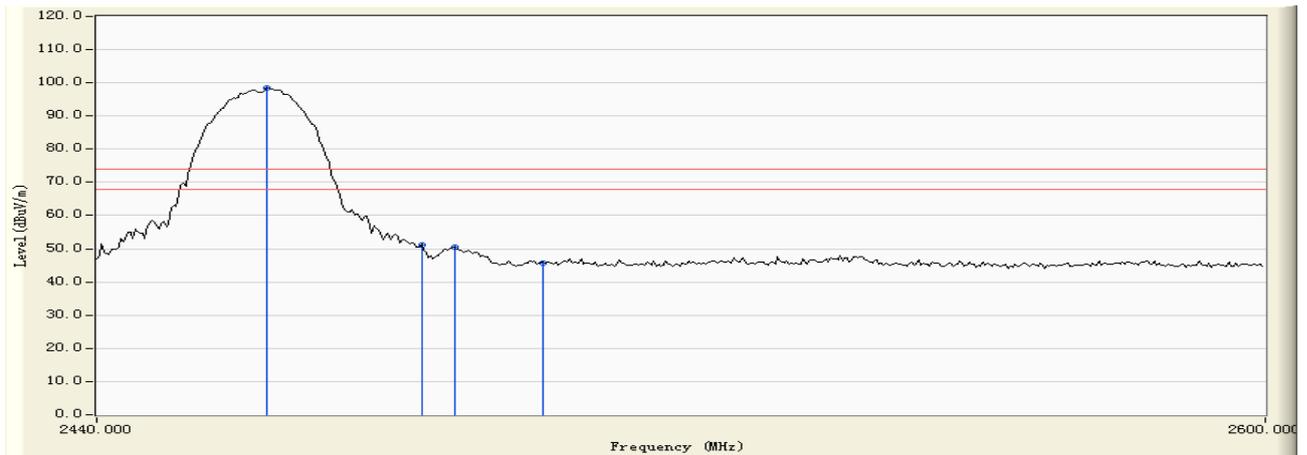
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	0.188	47.314	47.503	-26.497	74.000	PEAK
2		2333.253	0.240	53.768	54.009	-19.991	74.000	PEAK
3		2333.253	0.240	40.590	40.831	-13.169	54.000	AVERAGE
4		2390.000	0.358	53.475	53.833	-20.167	74.000	PEAK
5	*	2412.615	0.431	105.071	105.502	N/A	N/A	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor



Engineer : Alice	
Site : EMC Lab AC 102	Time : 2010/10/12 - 19:45
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2462MHz)



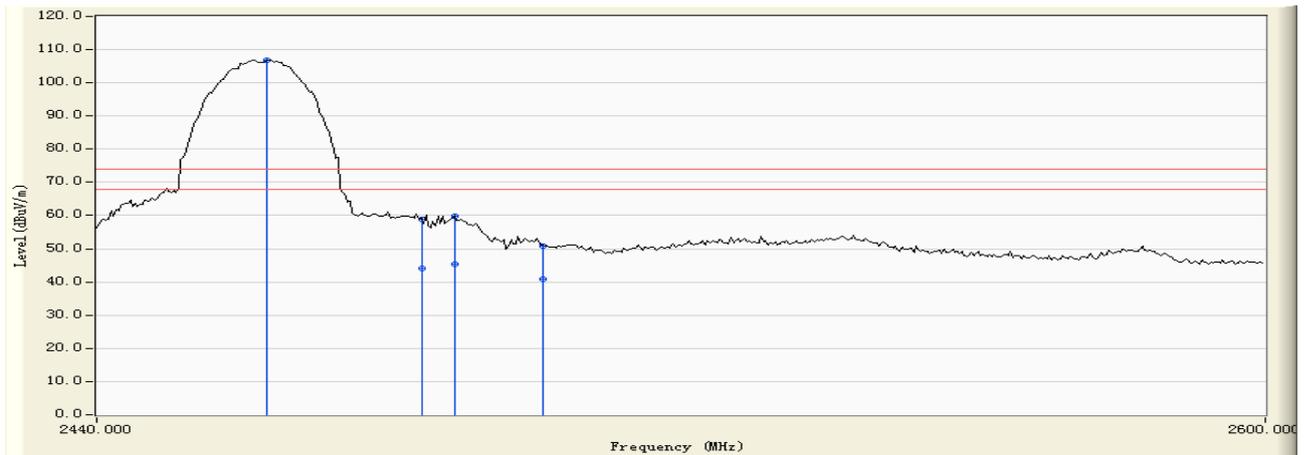
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2462.675	0.602	97.752	98.354	N/A	N/A	PEAK
2		2483.500	0.672	50.375	51.048	-22.952	74.000	PEAK
3		2487.904	0.689	49.809	50.497	-23.503	74.000	PEAK
4		2500.000	0.737	45.096	45.832	-28.168	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor



Engineer : Alice	
Site : EMC Lab AC 102	Time : 2010/10/12 - 19:47
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b (2462MHz)



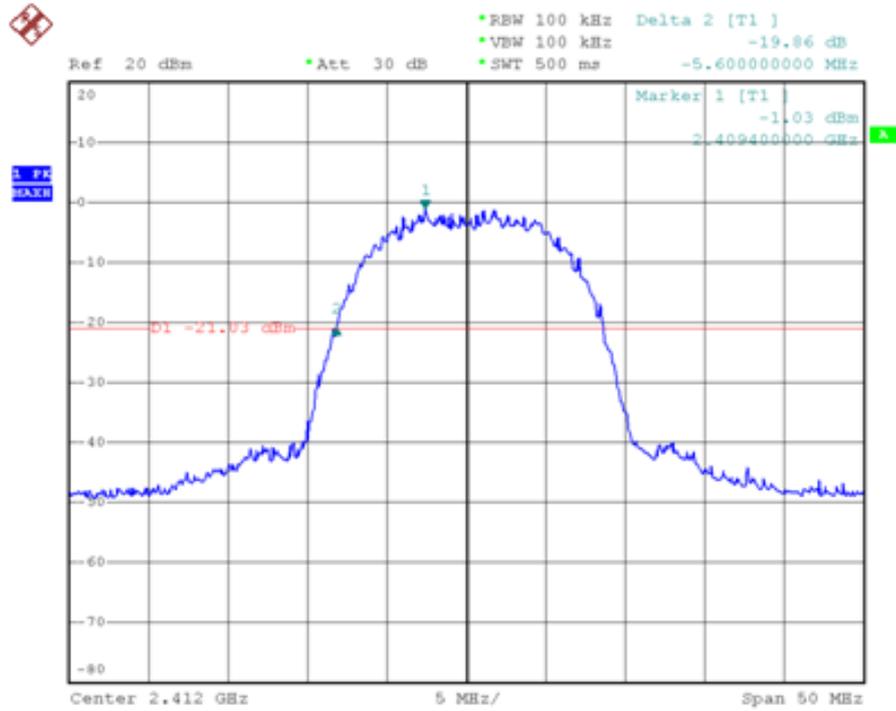
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2462.675	0.602	106.363	106.965	N/A	N/A	PEAK
2		2483.500	0.672	58.247	58.920	-15.080	74.000	PEAK
3		2483.500	0.672	43.560	44.233	-9.767	54.000	AVERAGE
4		2487.904	0.689	59.125	59.813	-14.187	74.000	PEAK
5		2487.904	0.689	44.580	45.268	-8.732	54.000	AVERAGE
6		2500.000	0.737	50.119	50.855	-23.145	74.000	PEAK
7		2500.000	0.737	40.240	40.976	-13.024	54.000	AVERAGE

Note:

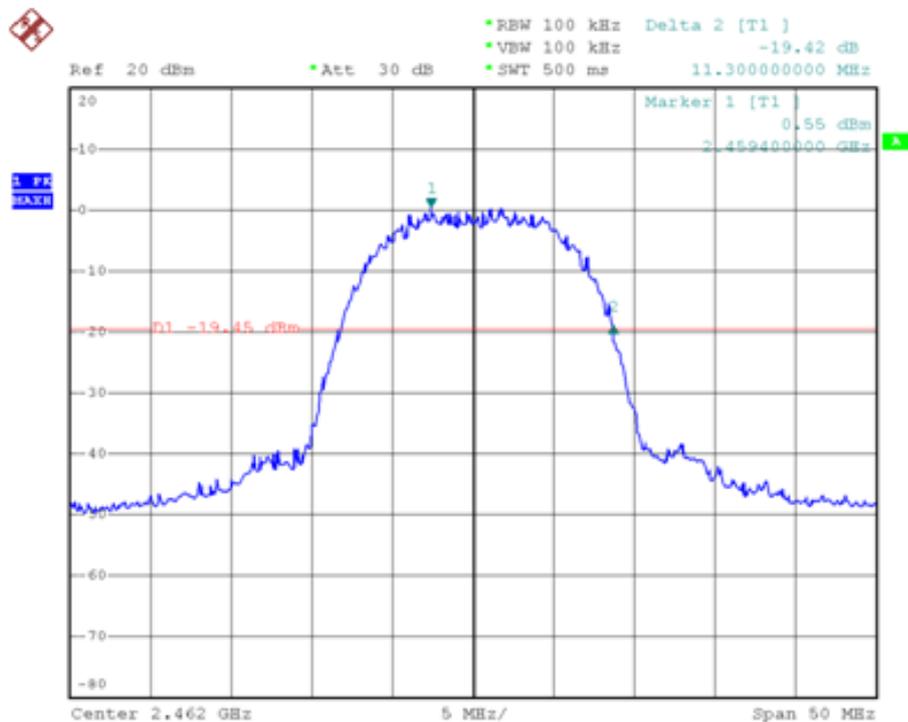
1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor



Band Edge (20dBc RF Conducted Measurement)  
Mode 1: Transmit by 802.11b (2412MHz)

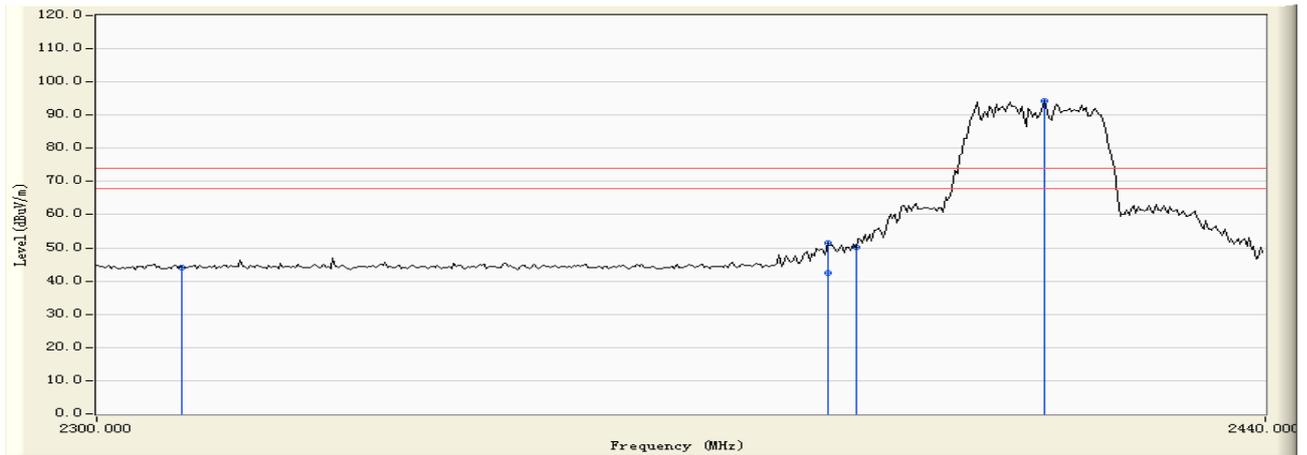


Band Edge (20dBc RF Conducted Measurement)  
Mode 1: Transmit by 802.11b (2462MHz)





Engineer : Alice	
Site : EMC Lab AC 102	Time : 2010/10/12 - 20:00
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2412MHz)



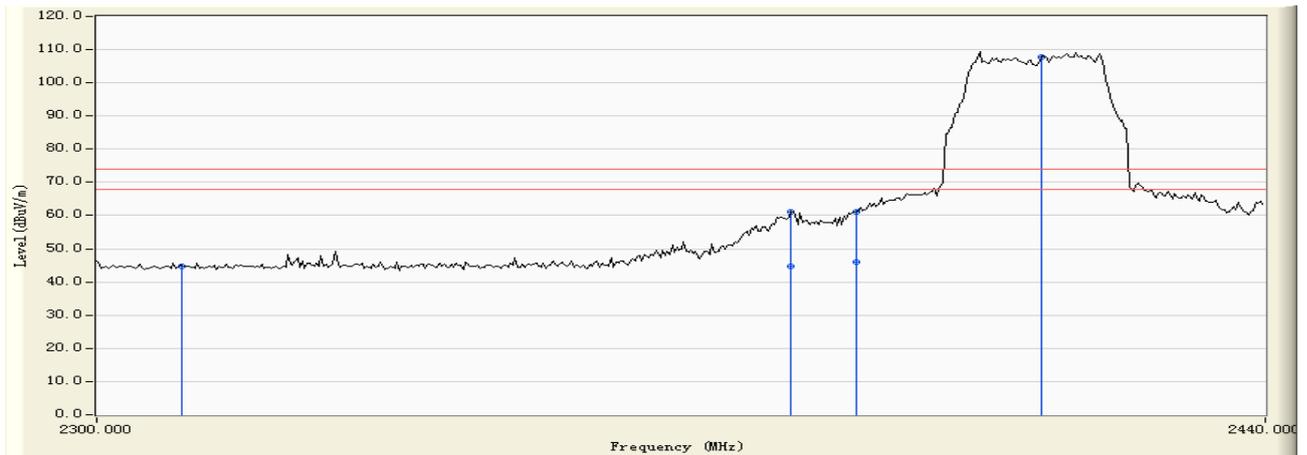
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	0.188	44.008	44.197	-29.803	74.000	PEAK
2		2386.627	0.350	51.212	51.562	-22.438	74.000	PEAK
3		2386.627	0.350	42.020	42.370	-11.630	54.000	AVERAGE
4		2390.000	0.358	49.826	50.184	-23.816	74.000	PEAK
5	*	2412.894	0.432	93.753	94.185	N/A	N/A	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor



Engineer : Alice	
Site : EMC Lab AC 102	Time : 2010/10/12 - 20:01
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2412MHz)



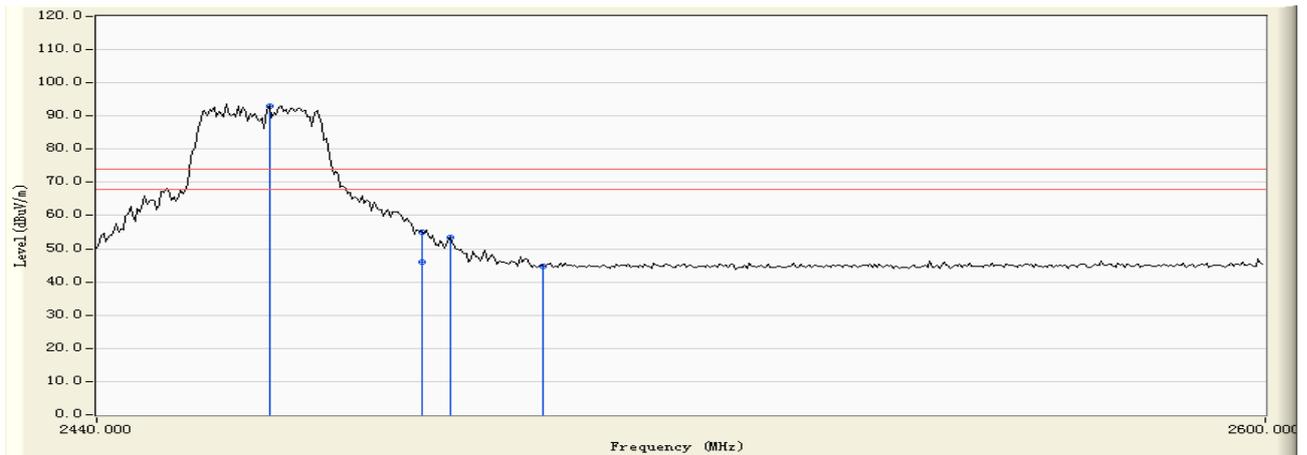
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	0.188	44.681	44.870	-29.130	74.000	PEAK
2		2382.156	0.340	60.759	61.099	-12.901	74.000	PEAK
3		2382.156	0.340	44.240	44.580	-9.420	54.000	AVERAGE
4		2390.000	0.358	60.832	61.190	-12.810	74.000	PEAK
5		2390.000	0.358	45.630	45.988	-8.012	54.000	AVERAGE
6	*	2412.615	0.431	107.381	107.812	N/A	N/A	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor



Engineer : Alice	
Site : EMC Lab AC 102	Time : 2010/10/12 - 20:04
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2462MHz)



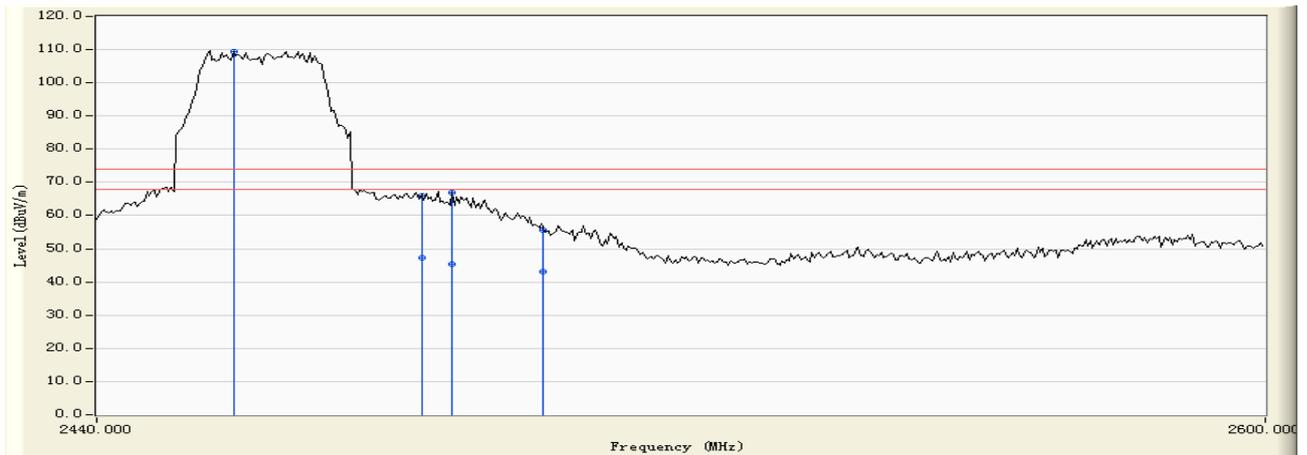
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2462.994	0.602	92.334	92.937	N/A	N/A	PEAK
2		2483.500	0.672	54.341	55.014	-18.986	74.000	PEAK
3		2483.500	0.672	45.240	45.913	-8.087	54.000	AVERAGE
4		2487.265	0.686	52.803	53.489	-20.511	74.000	PEAK
5		2500.000	0.737	43.921	44.657	-29.343	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor



Engineer : Alice	
Site : EMC Lab AC 102	Time : 2010/10/12 - 20:06
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g (2462MHz)



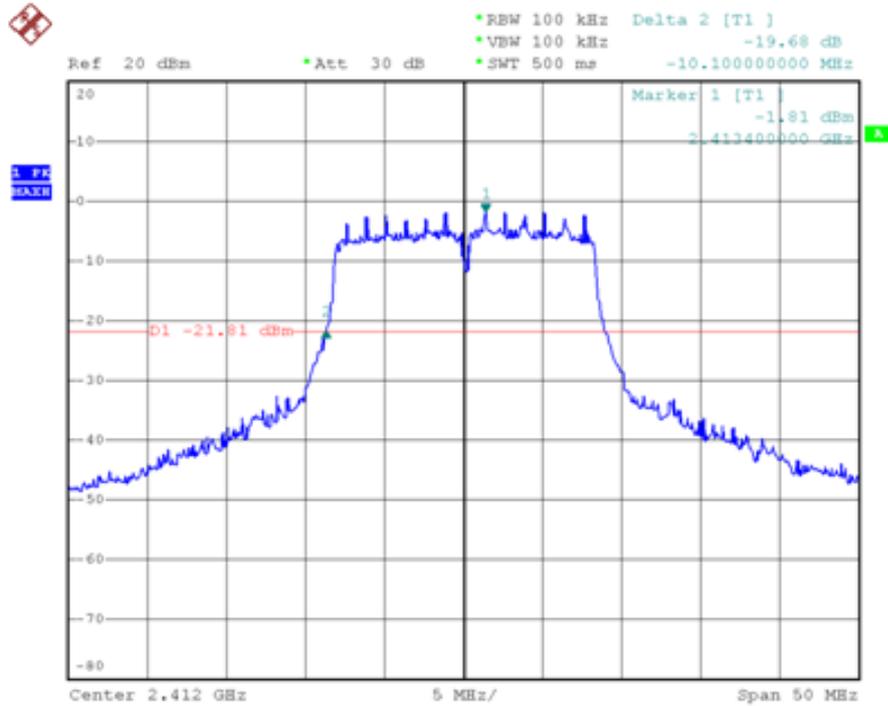
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2458.204	0.584	108.770	109.354	N/A	N/A	PEAK
2		2483.500	0.672	65.376	66.049	-7.951	74.000	PEAK
3		2483.500	0.672	46.530	47.203	-6.797	54.000	AVERAGE
4		2487.585	0.687	66.232	66.919	-7.081	74.000	PEAK
5		2487.585	0.687	44.520	45.207	-8.793	54.000	AVERAGE
6		2500.000	0.737	54.773	55.509	-18.491	74.000	PEAK
7		2500.000	0.737	42.390	43.126	-10.874	54.000	AVERAGE

Note:

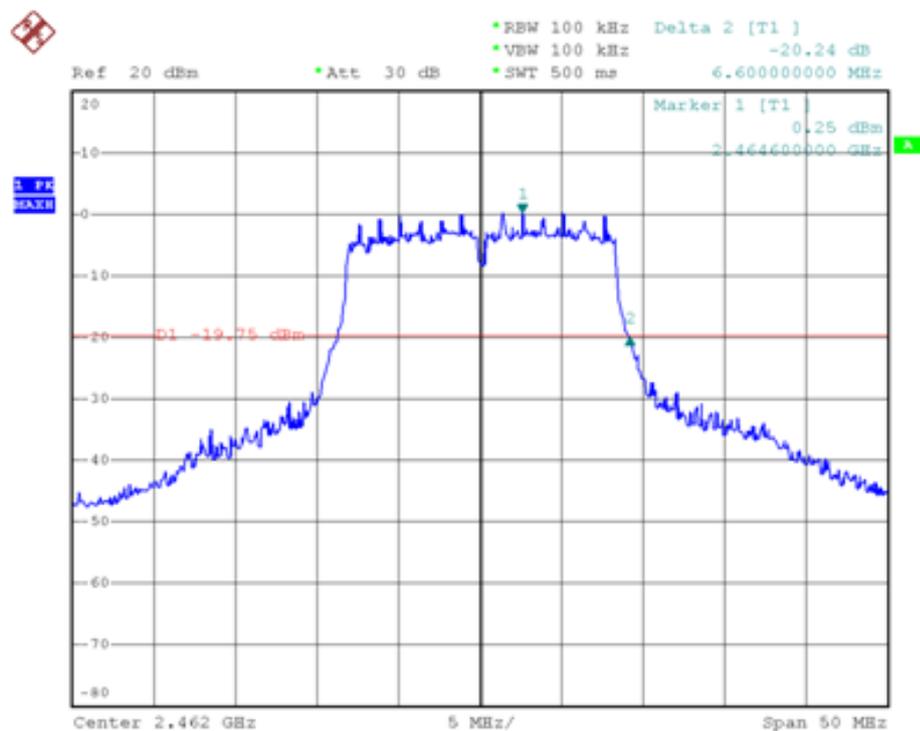
1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor



Band Edge (20dBc RF Conducted Measurement)  
Mode 2: Transmit by 802.11g (2412MHz)

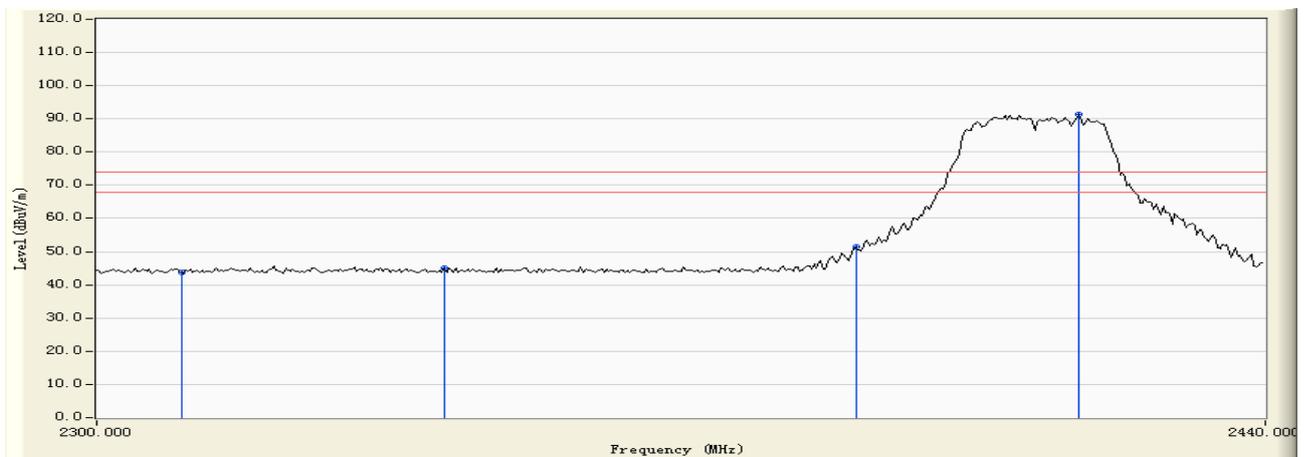


Band Edge (20dBc RF Conducted Measurement)  
Mode 2: Transmit by 802.11g (2462MHz)





Engineer : Alice	
Site : EMC Lab AC 102	Time : 2010/10/12 - 20:10
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2412MHz)



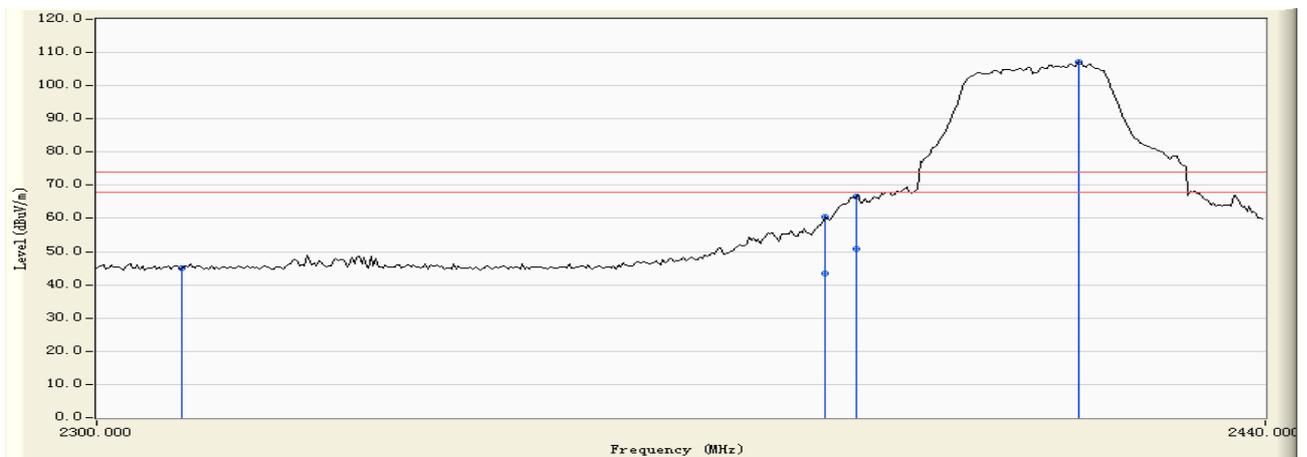
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	0.188	43.424	43.613	-30.387	74.000	PEAK
2		2340.798	0.258	44.689	44.947	-29.053	74.000	PEAK
3		2390.000	0.358	50.966	51.324	-22.676	74.000	PEAK
4	*	2417.086	0.445	90.910	91.356	N/A	N/A	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor



Engineer : Alice	
Site : EMC Lab AC 102	Time : 2010/10/12 - 20:13
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2412MHz)



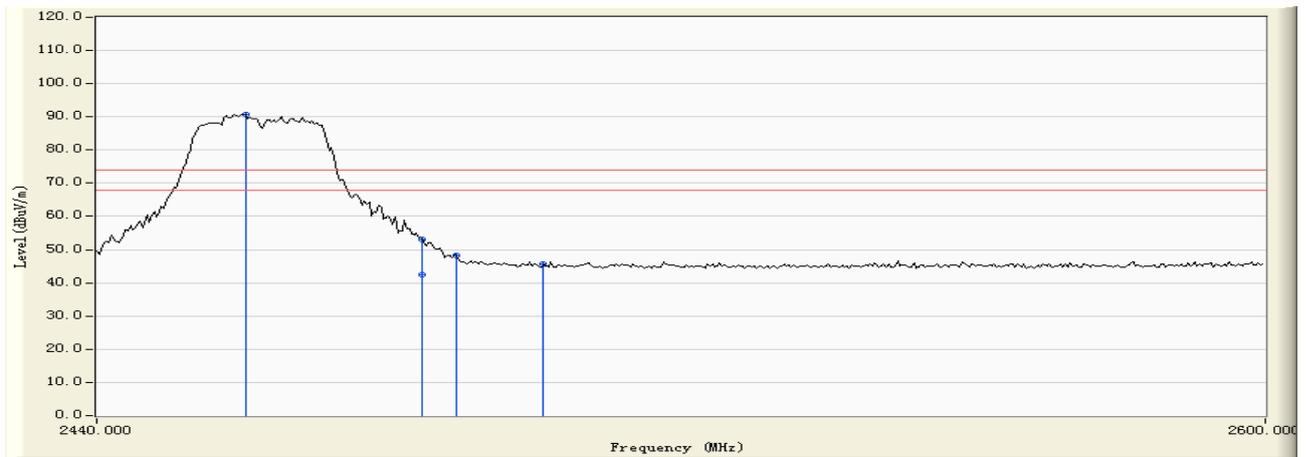
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	0.188	44.894	45.083	-28.917	74.000	PEAK
2		2386.347	0.350	60.063	60.413	-13.587	74.000	PEAK
3		2386.347	0.350	43.240	43.590	-10.410	54.000	AVERAGE
4		2390.000	0.358	66.091	66.449	-7.551	74.000	PEAK
5		2390.000	0.358	50.460	50.818	-3.182	54.000	AVERAGE
6	*	2417.086	0.445	106.585	107.031	N/A	N/A	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor



Engineer : Alice	
Site : EMC Lab AC 102	Time : 2010/10/12 - 20:21
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2462MHz)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2459.800	0.591	90.187	90.778	N/A	N/A	PEAK
2		2483.500	0.672	52.531	53.204	-20.796	74.000	PEAK
3		2483.500	0.672	41.680	42.353	-11.647	54.000	AVERAGE
4		2488.224	0.689	47.690	48.379	-25.621	74.000	PEAK
5		2500.000	0.737	44.873	45.609	-28.391	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor



Engineer : Alice	
Site : EMC Lab AC 102	Time : 2010/10/12 - 20:23
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit by 802.11n (20MHz) (2462MHz)



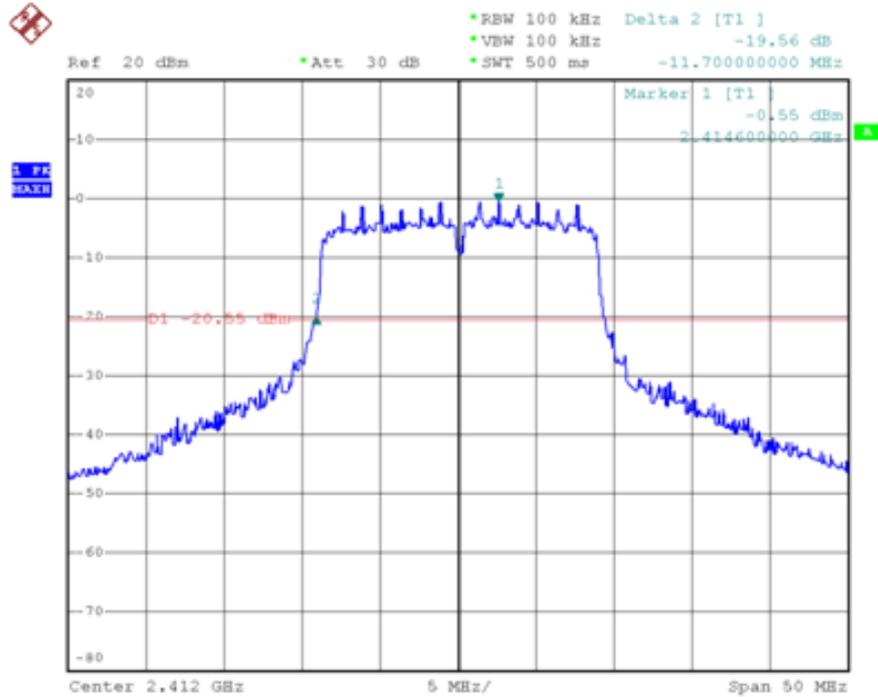
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.591	0.608	106.862	107.470	N/A	N/A	PEAK
2		2483.500	0.672	63.924	64.597	-9.403	74.000	PEAK
3		2483.500	0.672	45.680	46.353	-7.647	54.000	AVERAGE
4		2485.349	0.680	64.854	65.533	-8.467	74.000	PEAK
5		2485.349	0.680	44.250	44.929	-9.071	54.000	AVERAGE
6		2500.000	0.737	51.729	52.465	-21.535	74.000	PEAK
7		2500.000	0.737	41.570	42.306	-11.694	54.000	AVERAGE

Note:

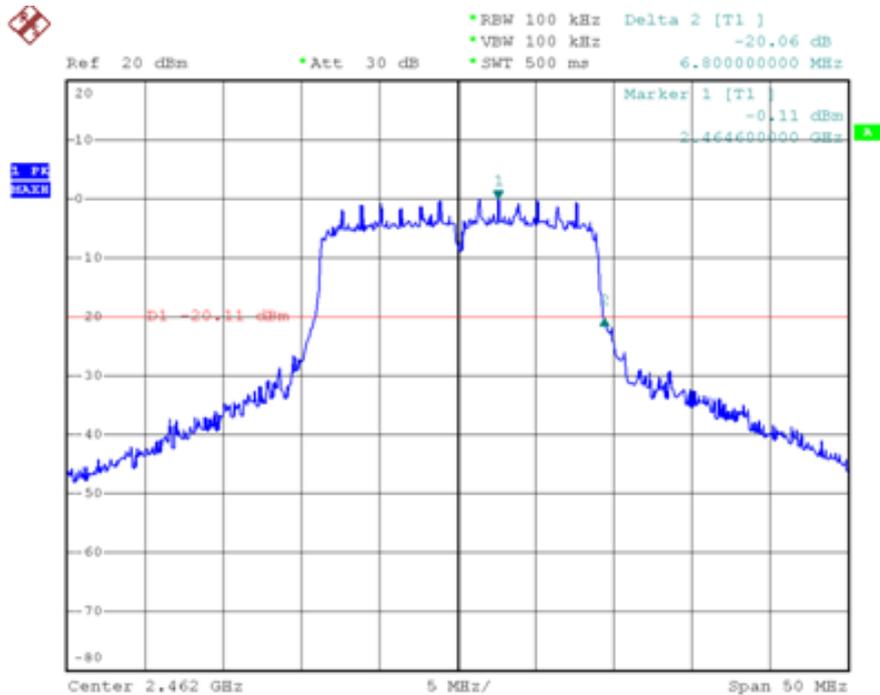
1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor



Band Edge (20dBc RF Conducted Measurement)  
Mode 3: Transmit by 802.11n (20MHz) (2412MHz)

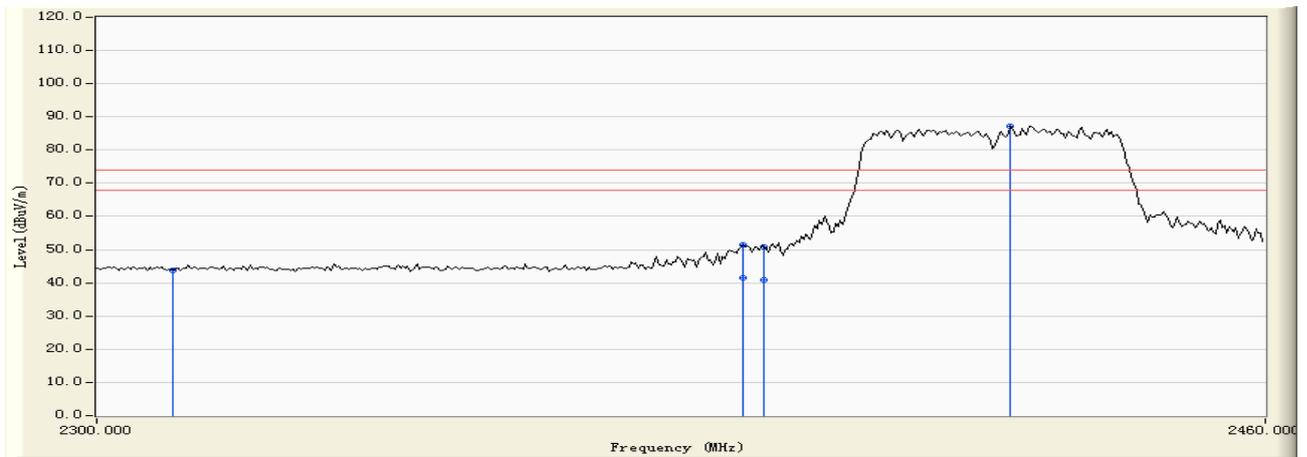


Band Edge (20dBc RF Conducted Measurement)  
Mode 3: Transmit by 802.11n (20MHz) (2462MHz)





Engineer : Alice	
Site : EMC Lab AC 102	Time : 2010/10/12 - 20:27
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2422MHz)



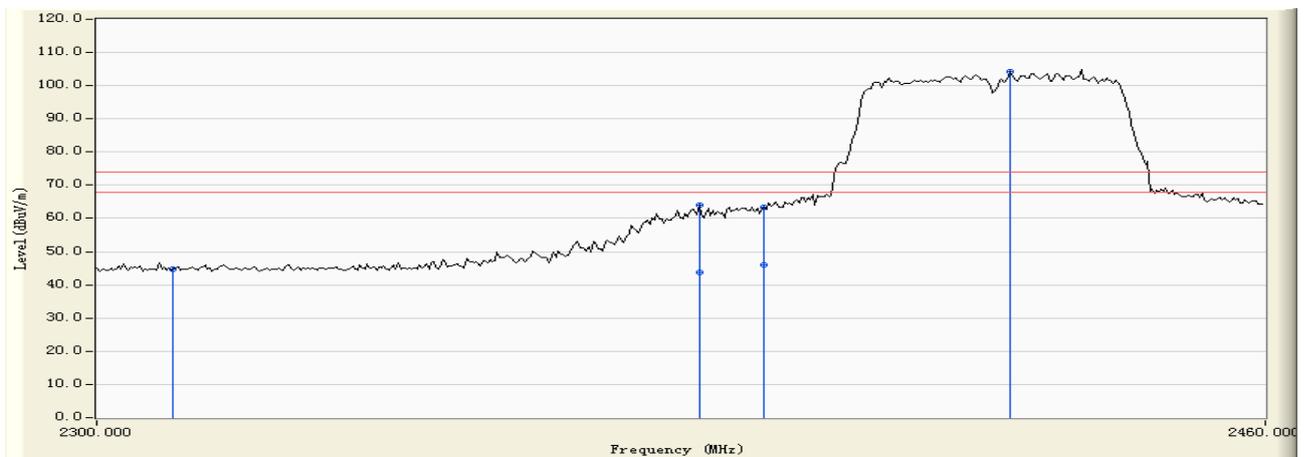
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	0.188	43.687	43.876	-30.124	74.000	PEAK
2		2387.186	0.352	51.188	51.540	-22.460	74.000	PEAK
3		2387.186	0.352	41.020	41.372	-12.628	54.000	AVERAGE
4		2390.000	0.358	50.417	50.775	-23.225	74.000	PEAK
5		2390.000	0.358	40.580	40.938	-13.062	54.000	AVERAGE
6	*	2424.232	0.470	86.866	87.336	N/A	N/A	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor



Engineer : Alice	
Site : EMC Lab AC 102	Time : 2010/10/12 - 20:29
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2422MHz)



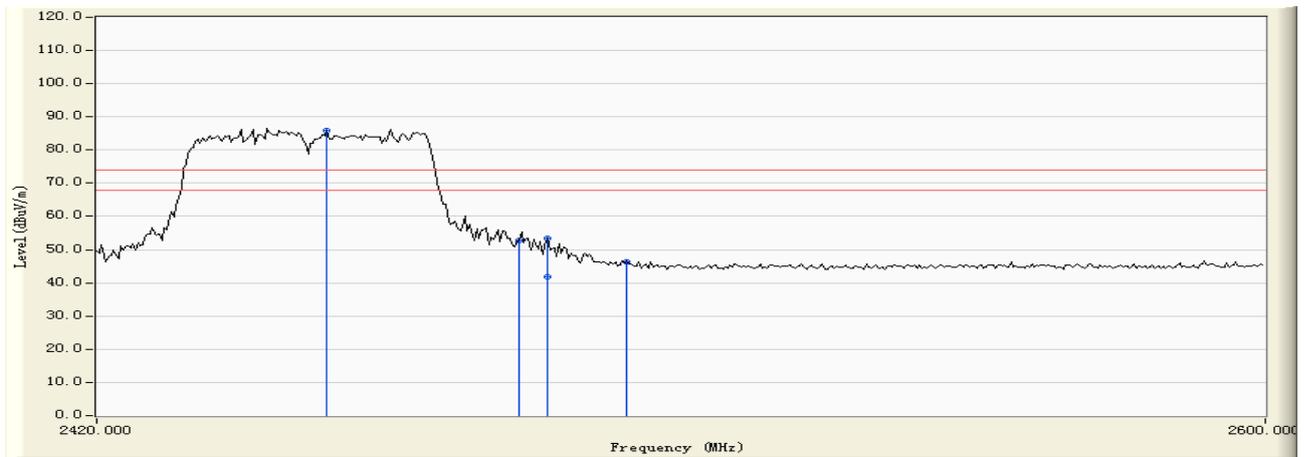
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	0.188	44.415	44.604	-29.396	74.000	PEAK
2		2381.118	0.338	63.786	64.124	-9.876	74.000	PEAK
3		2381.118	0.338	43.570	43.908	-10.092	54.000	AVERAGE
4		2390.000	0.358	63.094	63.452	-10.548	74.000	PEAK
5		2390.000	0.358	45.680	46.038	-7.962	54.000	AVERAGE
6	*	2424.231	0.470	103.836	104.306	N/A	N/A	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor



Engineer : Alice	
Site : EMC Lab AC 102	Time : 2010/10/12 - 20:32
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2452MHz)



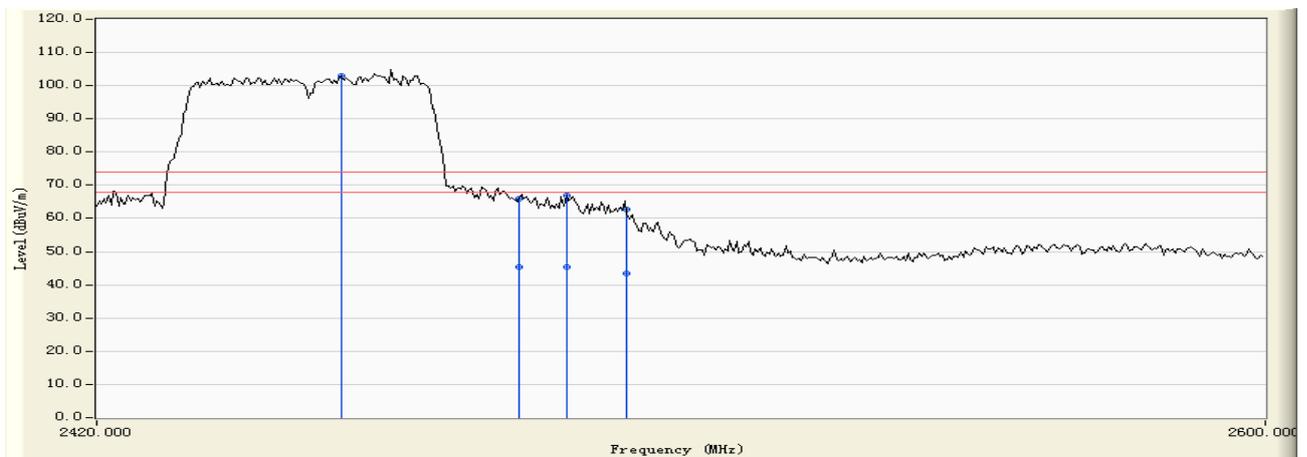
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2454.491	0.570	85.289	85.858	N/A	N/A	PEAK
2		2483.500	0.672	52.111	52.784	-21.216	74.000	PEAK
3		2487.904	0.689	52.562	53.250	-20.750	74.000	PEAK
4		2487.904	0.689	41.260	41.948	-12.052	54.000	AVERAGE
5		2500.000	0.737	45.708	46.444	-27.556	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor



Engineer : Alice	
Site : EMC Lab AC 102	Time : 2010/10/12 - 20:33
Limit : FCC_15_03M_PK	Margin : 6
EUT : Home Gateway	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4: Transmit by 802.11n (40MHz) (2452MHz)



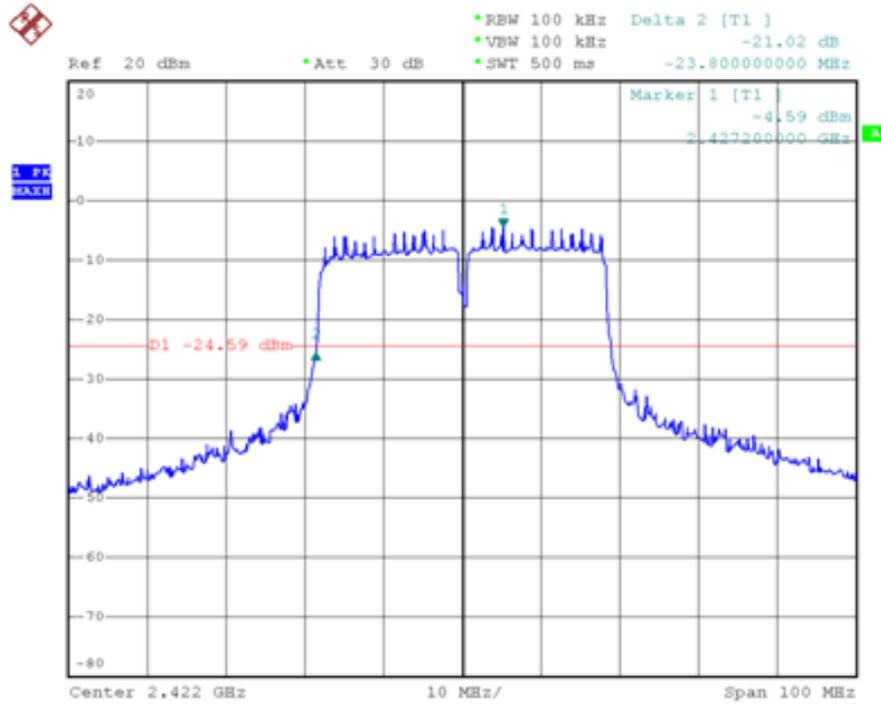
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2456.647	0.578	102.339	102.917	N/A	N/A	PEAK
2		2483.500	0.672	65.235	65.908	-8.092	74.000	PEAK
3		2483.500	0.672	44.680	45.353	-8.647	54.000	AVERAGE
4		2490.779	0.697	66.247	66.945	-7.055	74.000	PEAK
5		2490.779	0.697	44.580	45.278	-8.722	54.000	AVERAGE
6		2500.000	0.737	61.972	62.708	-11.292	74.000	PEAK
7		2500.000	0.737	42.680	43.416	-10.584	54.000	AVERAGE

Note:

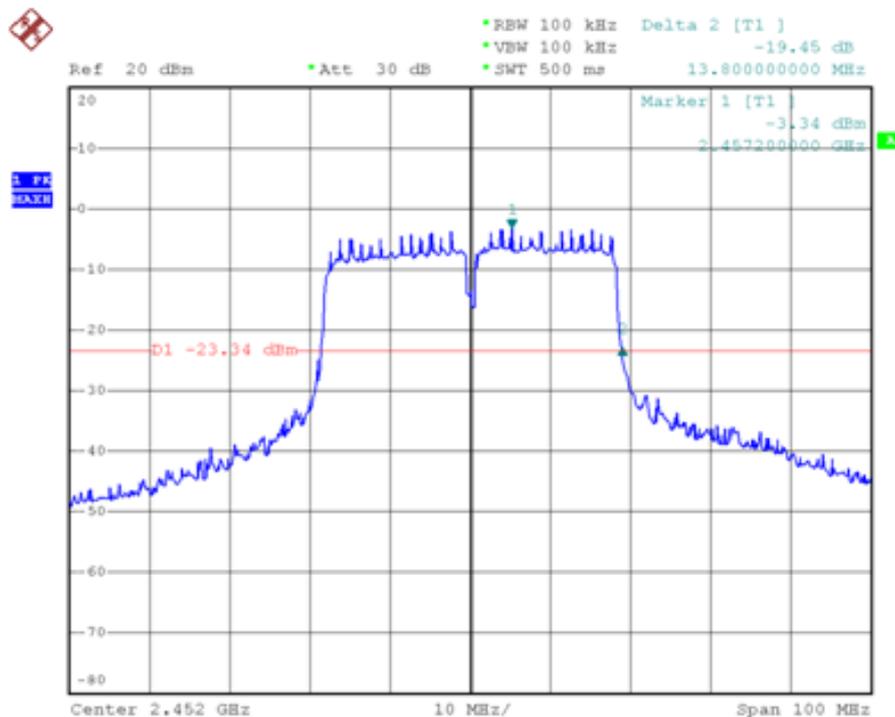
1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor



Band Edge (20dBc RF Conducted Measurement)  
Mode 4: Transmit by 802.11n (40MHz) (2422MHz)



Band Edge (20dBc RF Conducted Measurement)  
Mode 4: Transmit by 802.11 n (40MHz) (2452MHz)





## 8. RF Antenna Conducted Spurious

### 8.1. Test Limit

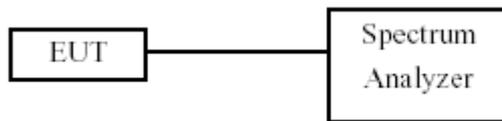
In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional Radiator is operating, the radio frequency power that is produced by the intentional radiator shall Be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

### 8.2. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074for compliance to FCC 47CFR 15.247 requirements.

Set RBW= 100 kHz, Set VBW>RBW, Sweep time=Auto, set up through 10 th harmonic.

### 8.3. Test Setup Layout



### 8.4. Measurement Equipment

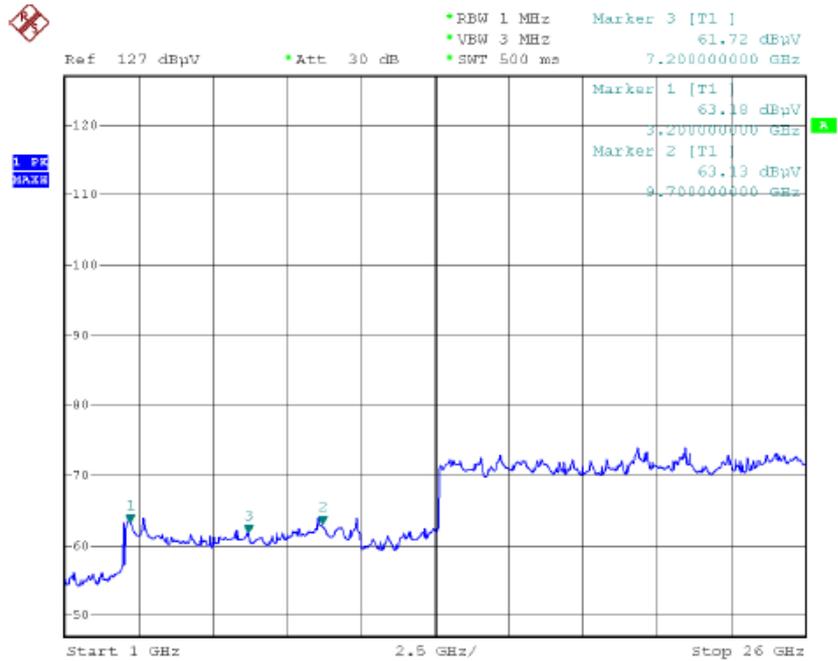
Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date
Spectrum Analyzer	R&S	FSP40	100324	2010.08.14
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2010.08.17



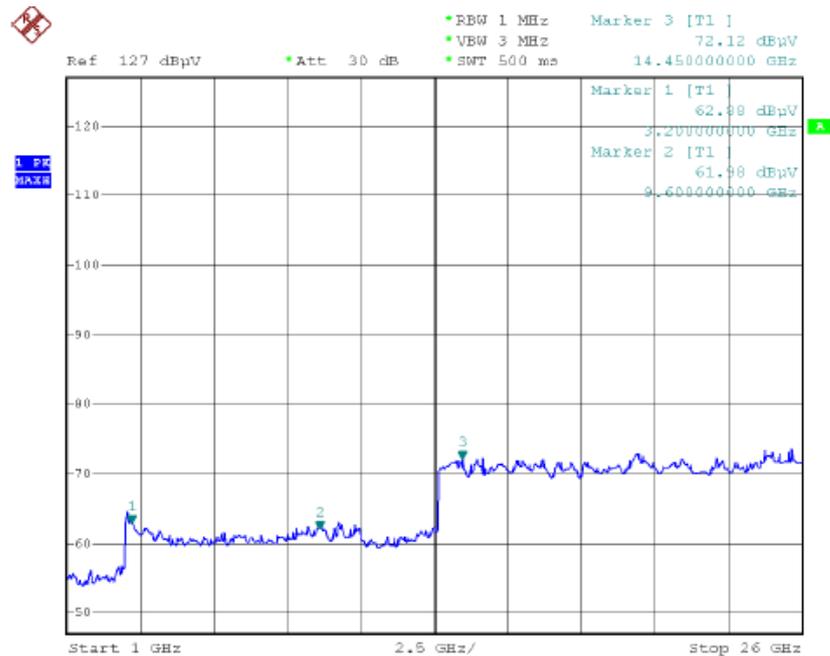
### 8.5. Test Result and Data

Test Item	RF Antenna Conducted Spurious
Test Mode	Mode 1: Transmit by 802.11b
Test Date	2010-10-11

Channel 01 (2412MHz)

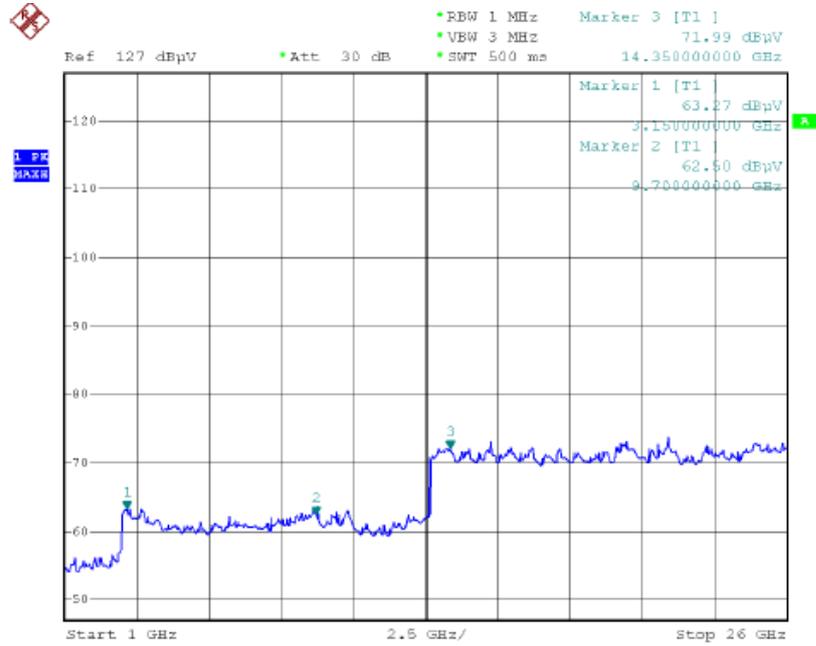


Channel 06 (2437MHz)





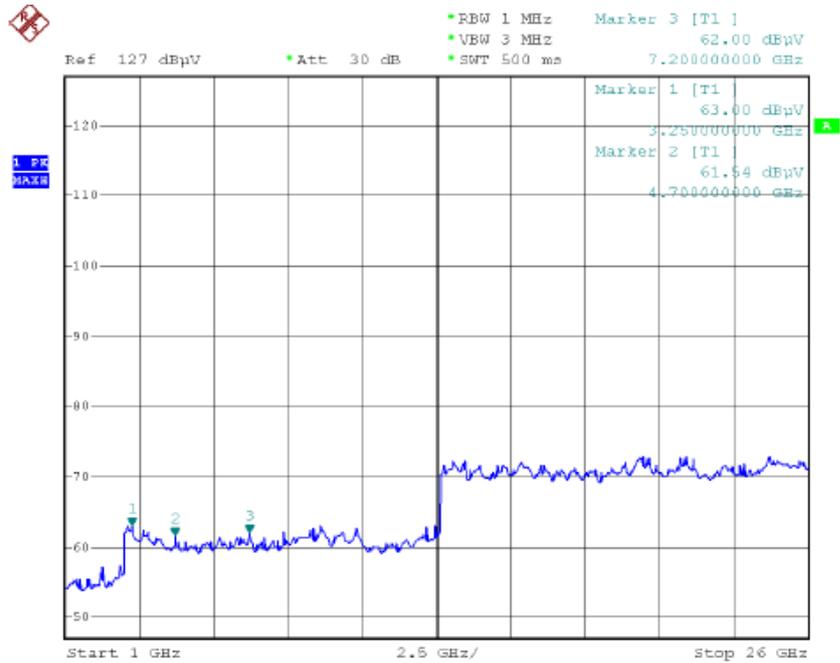
Channel 11 (2462MHz)



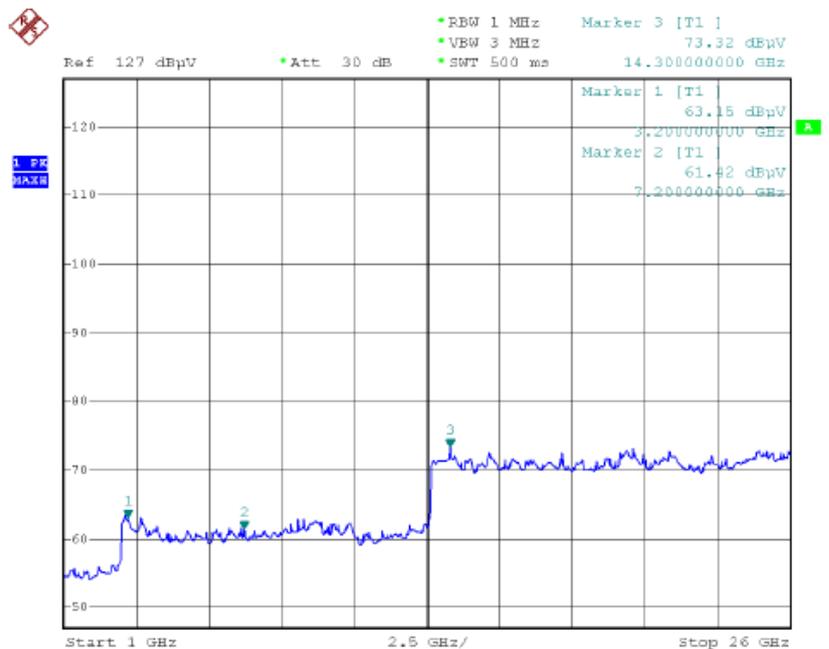


Test Item	RF Antenna Conducted Spurious
Test Mode	Mode 2: Transmit by 802.11g
Test Date	2010-10-11

Channel 01 (2412MHz)

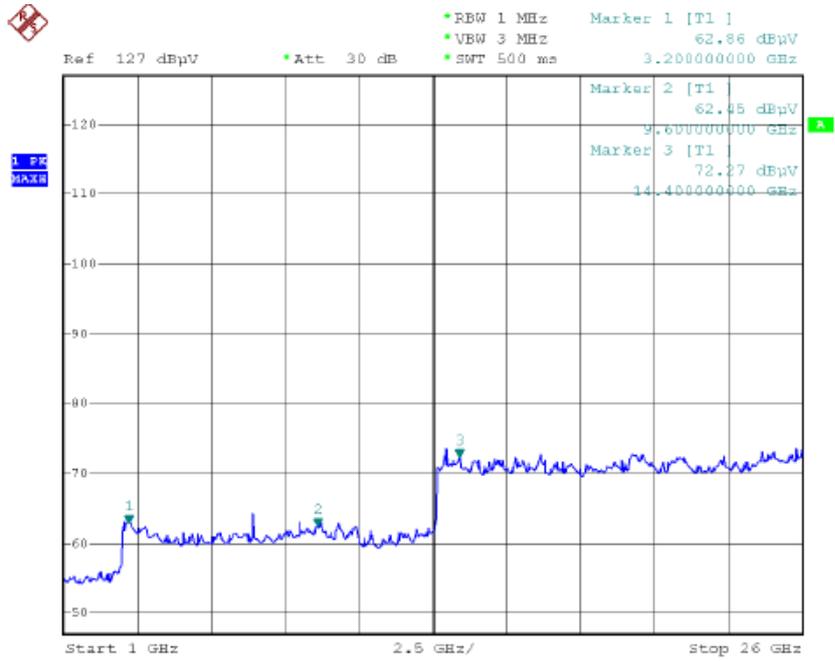


Channel 06 (2437MHz)





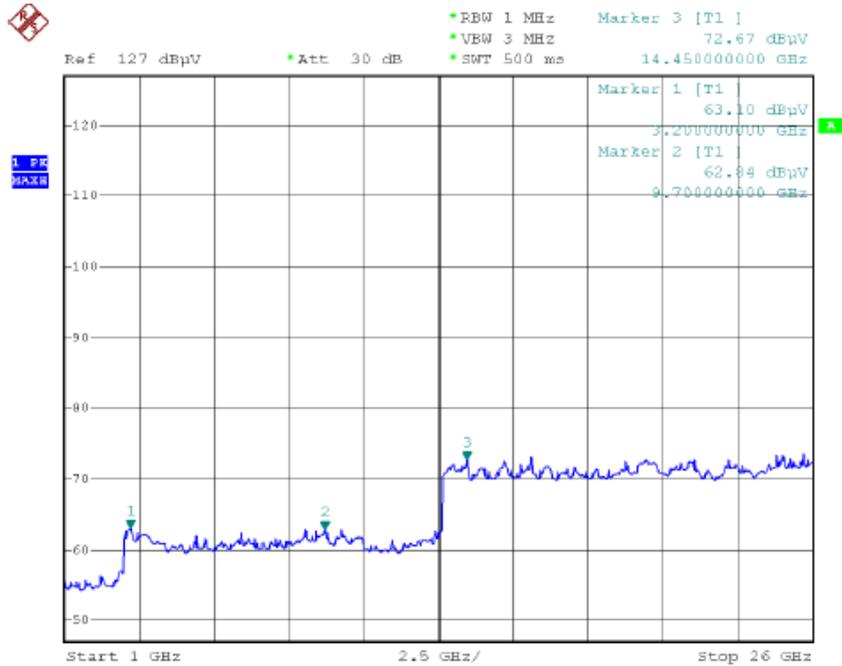
Channel 11 (2462MHz)



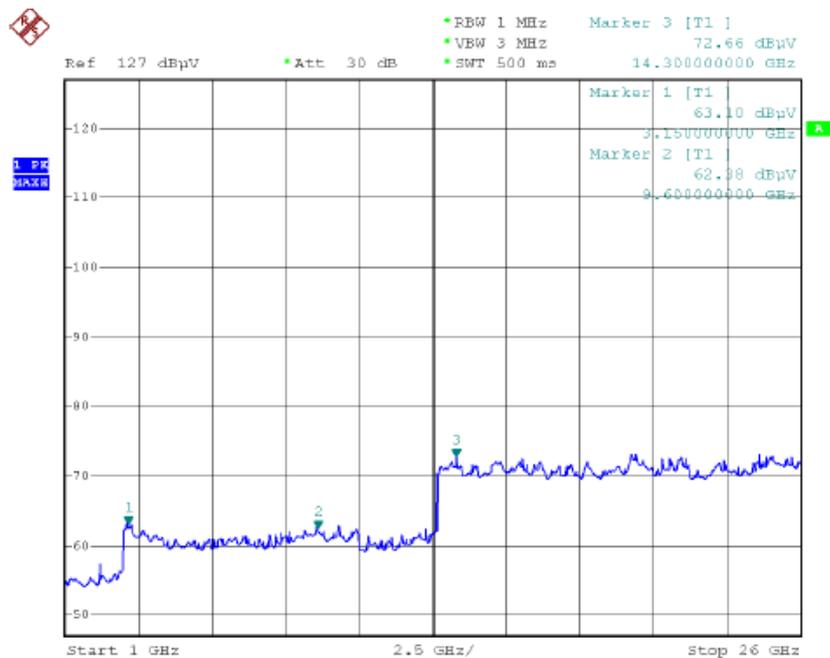


Test Item	RF Antenna Conducted Spurious
Test Mode	Mode 3: Transmit by 802.11n (20MHz)
Test Date	2010-10-11

Channel 01 (2412MHz)

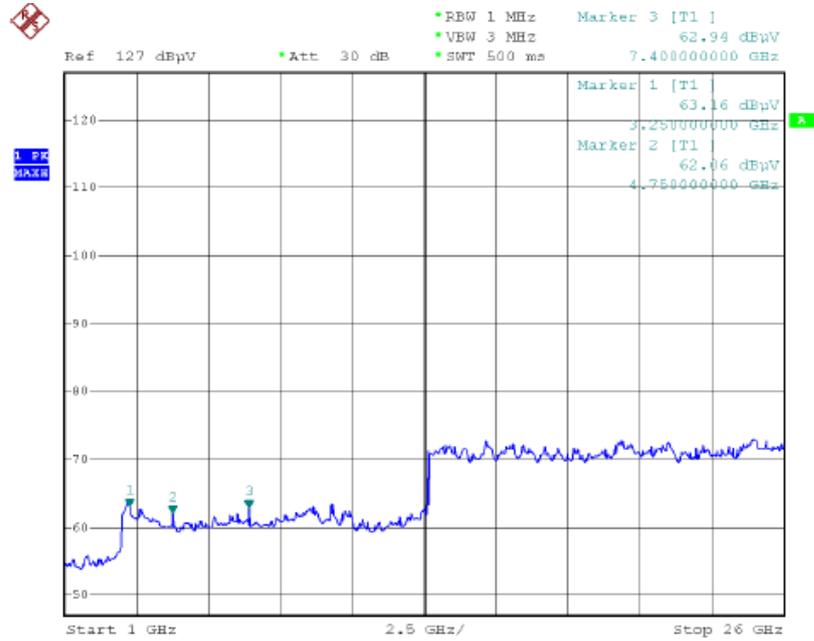


Channel 06 (2437MHz)





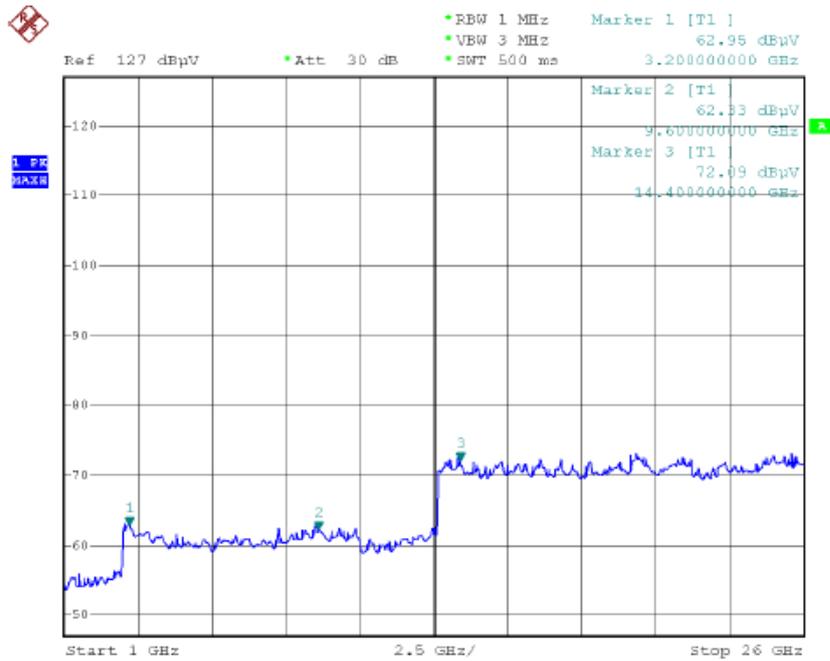
Channel 11 (2462MHz)



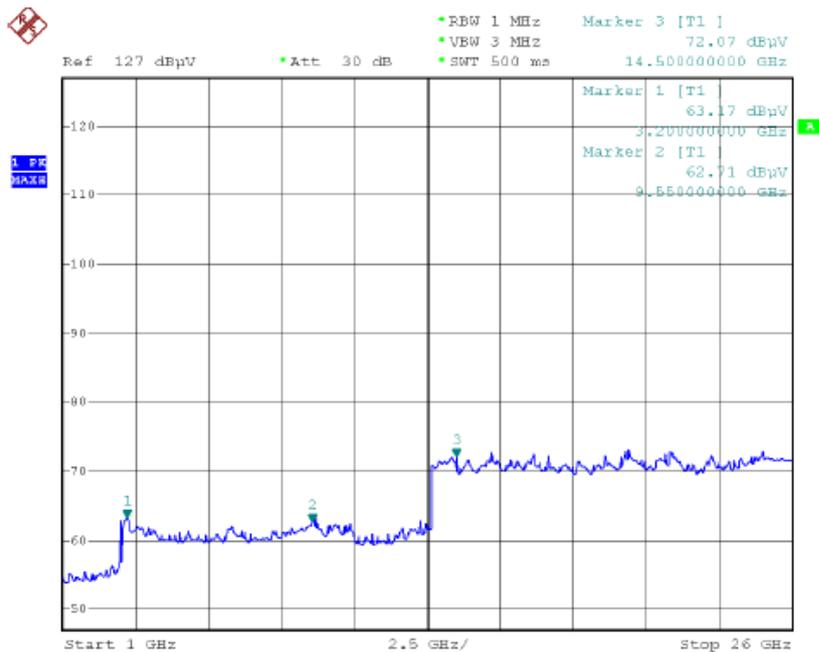


Test Item	RF Antenna Conducted Spurious
Test Mode	Mode 4: Transmit by 802.11n (40MHz)
Test Date	2010-10-11

Channel 03 (2422MHz)

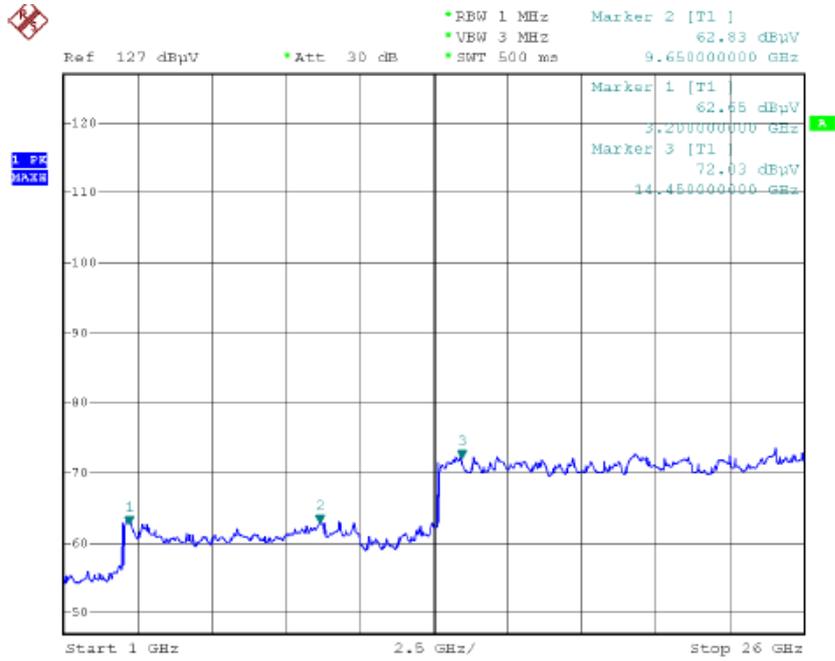


Channel 06 (2437MHz)





Channel 09 (2452MHz)





## 9. Power Spectral Density

### 9.1. Test Limit

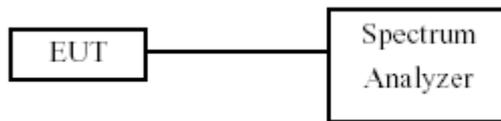
For digitally modulated systems, the power spectral density conducted from the intentional radiated to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

### 9.2. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW= 3 kHz, Set VBW  $\geq$  9 kHz, Sweep time=Auto, Set detector=Peak detector.

### 9.3. Test Setup Layout



### 9.4. Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date
Spectrum Analyzer	R&S	FSP40	100324	2010.08.14
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2010.08.17

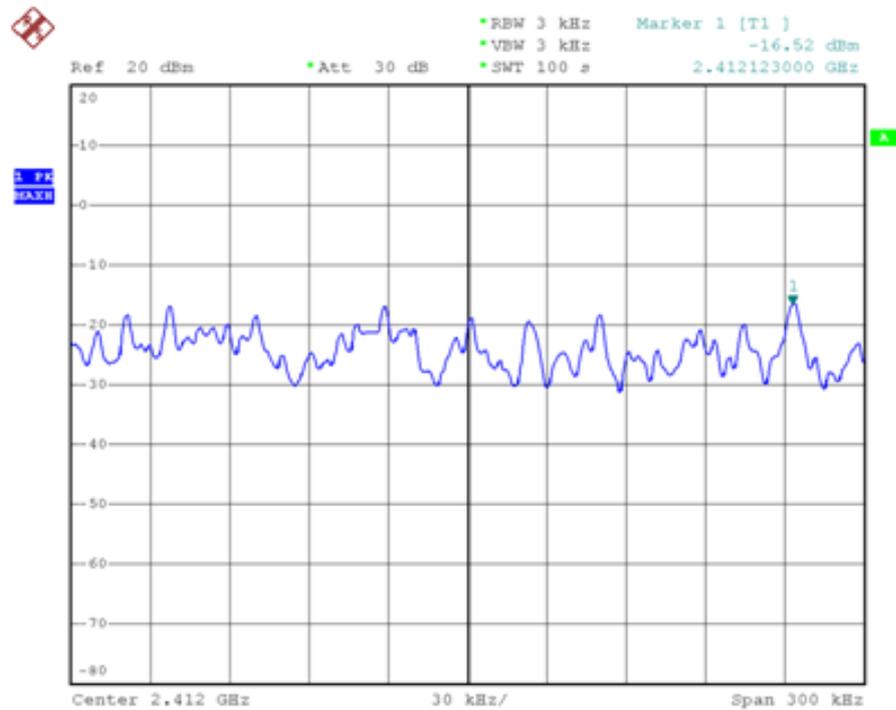


### 9.5. Test Result and Data

Test Item	Power Spectral Density
Test Mode	Mode 1: Transmit by 802.11b
Test Date	2010-10-11

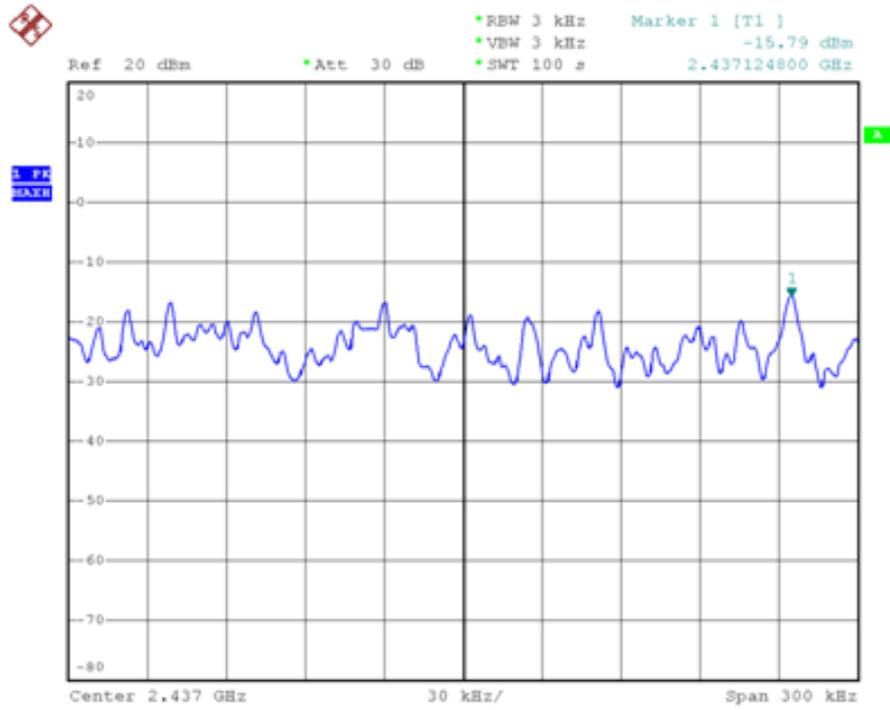
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-16.52	8	Pass
06	2437	-15.79	8	Pass
11	2462	-14.40	8	Pass

Channel 01 (2412MHz)

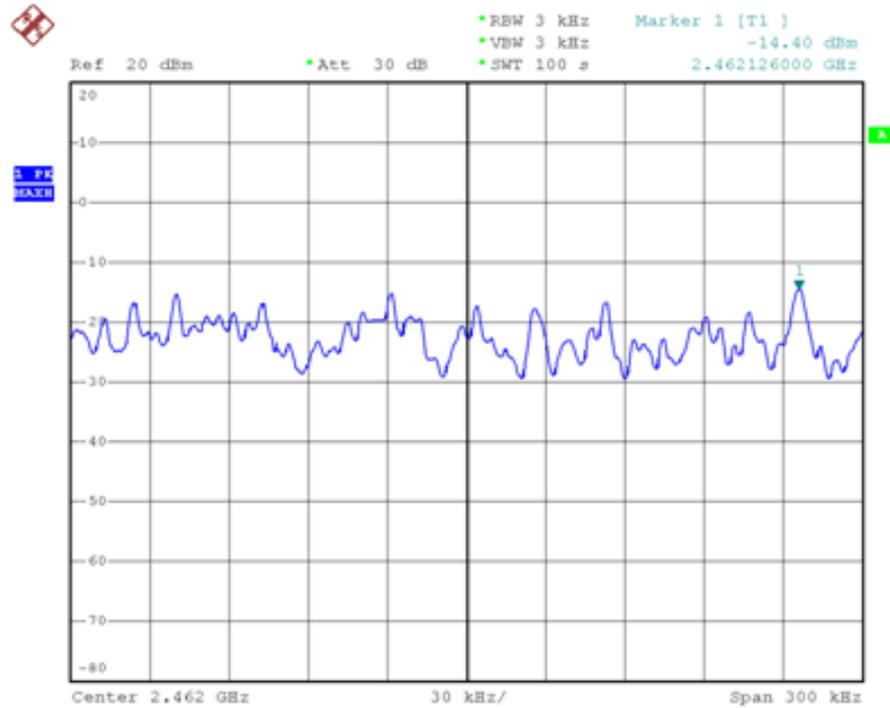




Channel 06 (2437MHz)



Channel 11 (2462MHz)

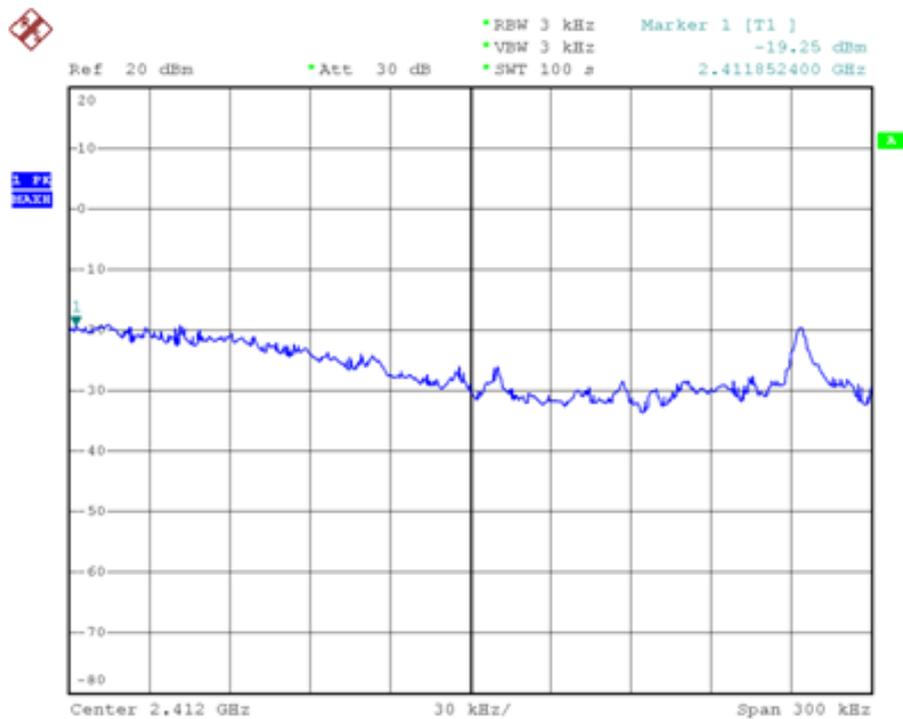




Test Item	Power Spectral Density
Test Mode	Mode 2: Transmit by 802.11g
Test Date	2010-10-11

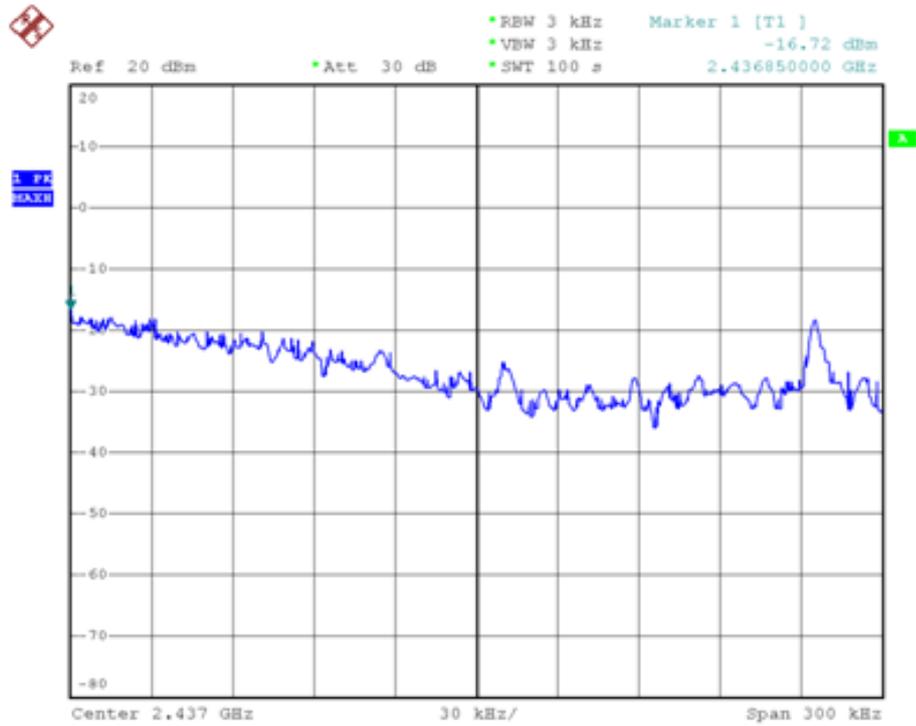
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-19.25	8	Pass
06	2437	-16.72	8	Pass
11	2462	-15.58	8	Pass

Channel 01 (2412MHz)

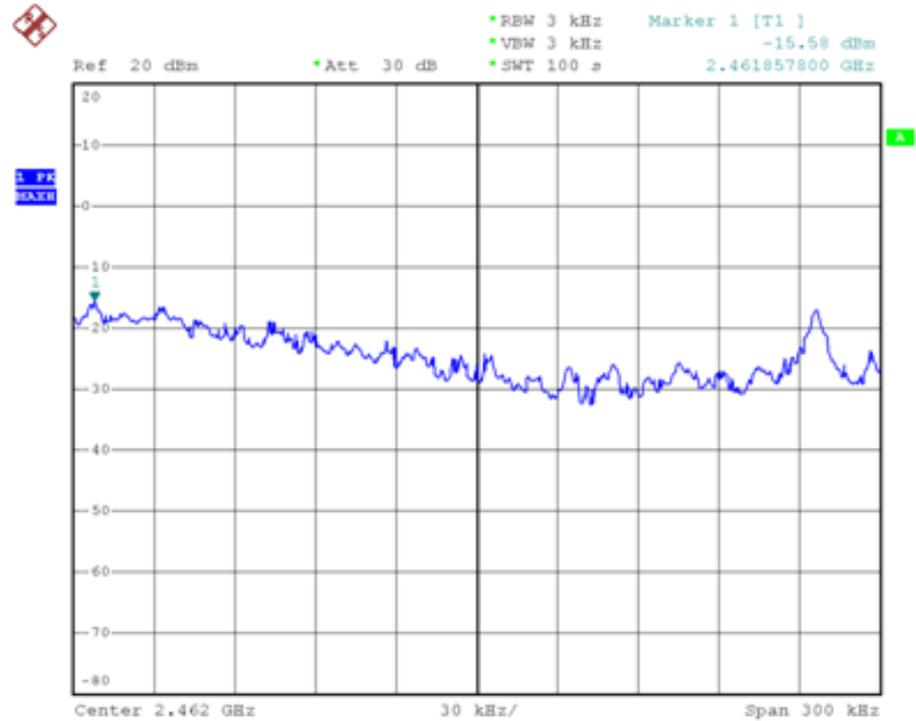




Channel 06 (2437MHz)



Channel 11 (2462MHz)

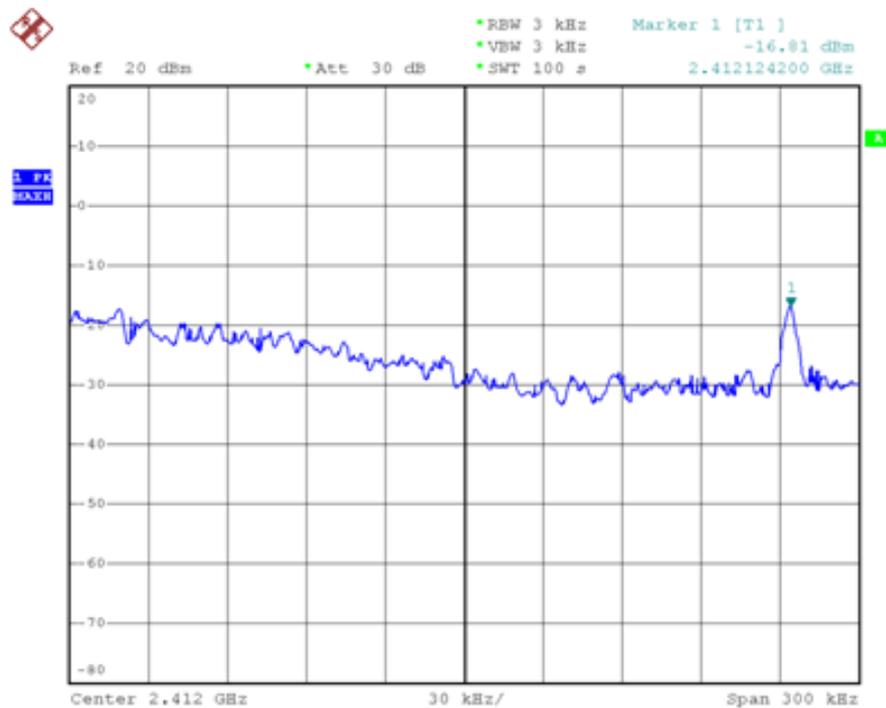




Test Item	Power Spectral Density
Test Mode	Mode 3: Transmit by 802.11n (20MHz)
Test Date	2010-10-11

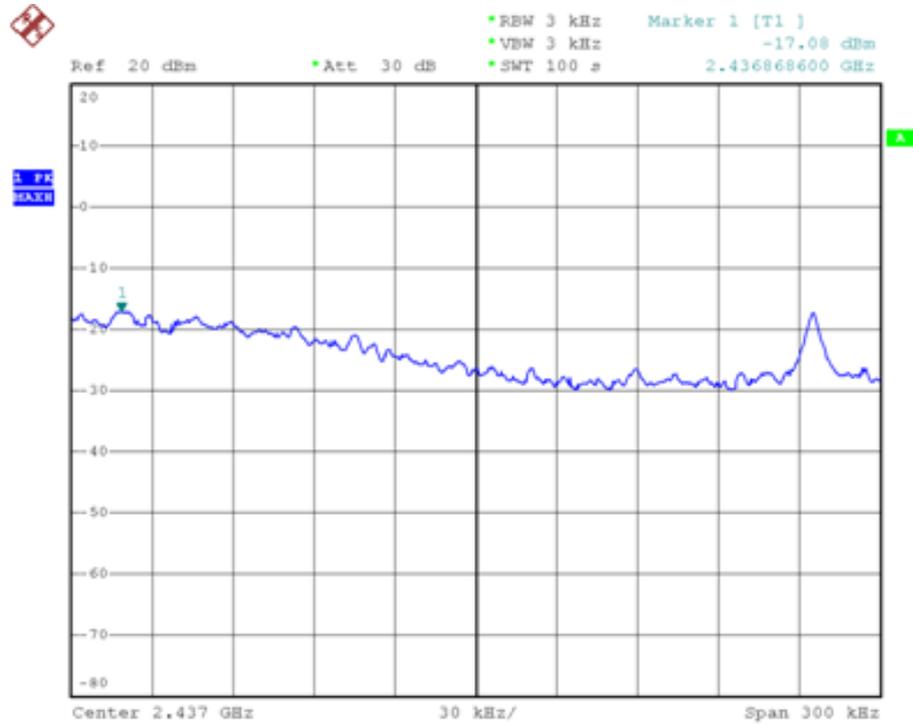
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-16.81	8	Pass
06	2437	-17.08	8	Pass
11	2462	-16.51	8	Pass

Channel 01 (2412MHz)

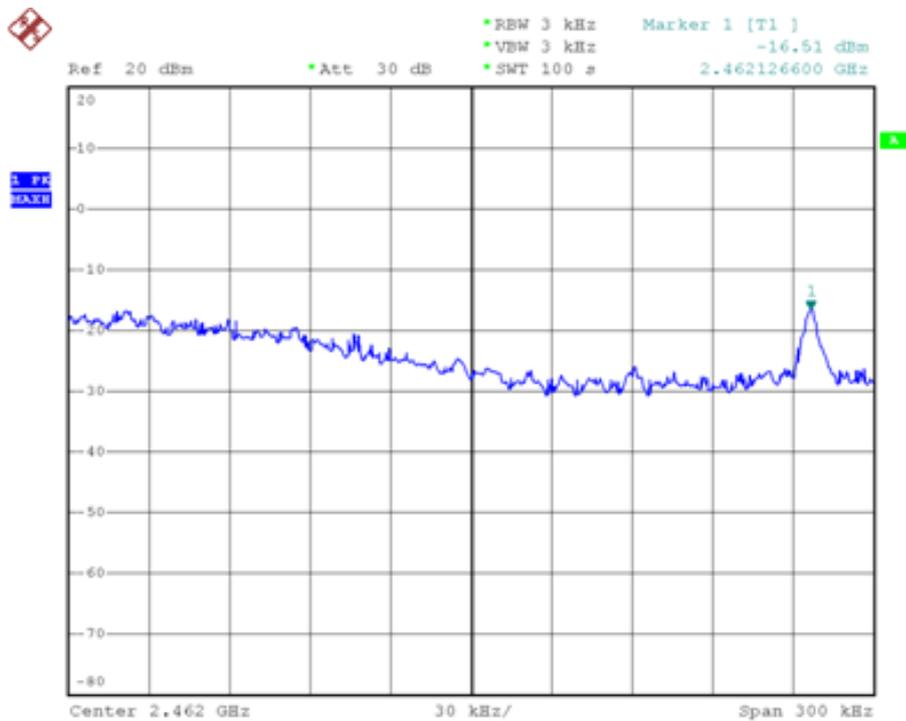




Channel 06 (2437MHz)



Channel 11 (2462MHz)

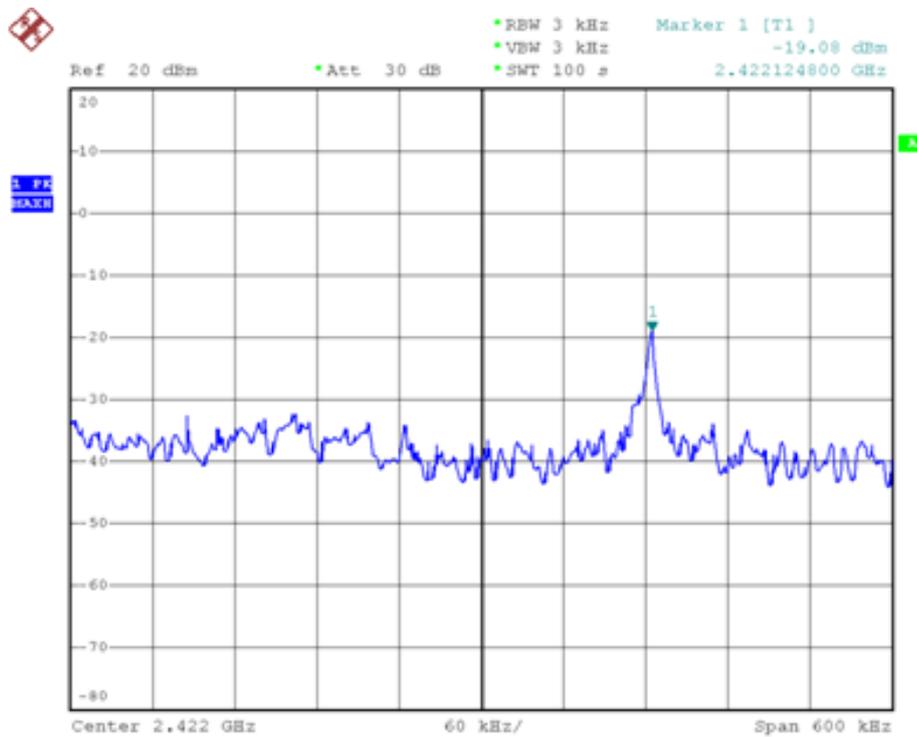




Test Item	Power Spectral Density
Test Mode	Mode 4: Transmit by 802.11n (40MHz)
Test Date	2010-10-11

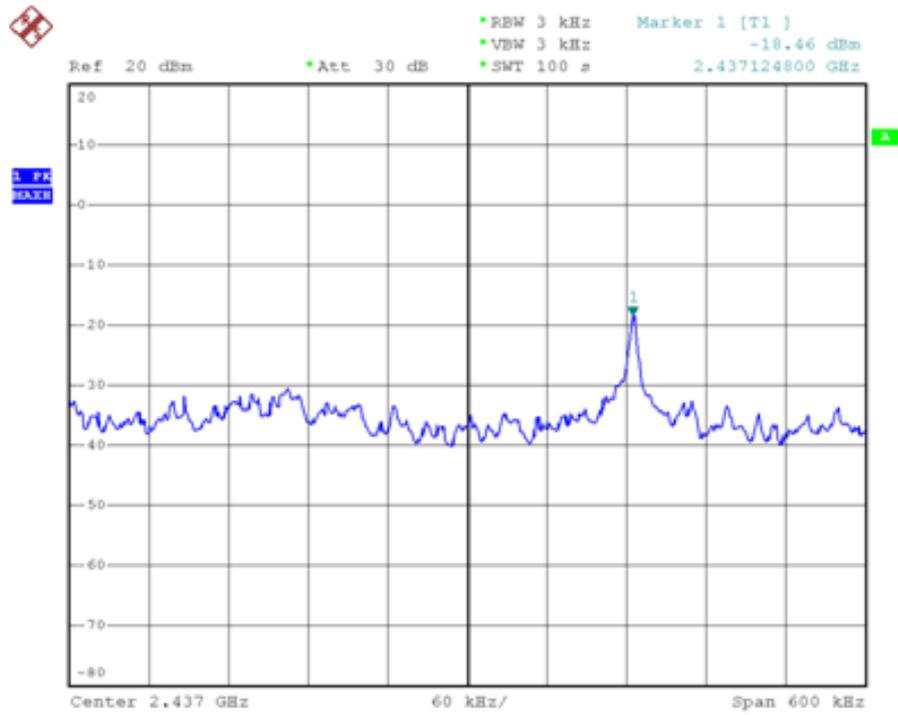
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
03	2422	-19.08	8	Pass
06	2437	-18.46	8	Pass
09	2452	-18.09	8	Pass

Channel 03 (2422MHz)





Channel 06 (2437MHz)



Channel 09 (2452MHz)

