FCC TEST REPORT

According to

FCC CFR Title 47 Part 15 Subpart C

Applicant	:	ZyXEL Communications Corporation.
Address	:	No.6,Innovation Rd.II Science Based Industrial Park Hsinchu, Taiwan
Manufacturer	:	Wuxi MitraStar Technology Co.Ltd
Address	:	Wuxi New District Minshan road 60#-E Jiangsu PRC
Equipment	:	802.11n ADSL2+ 4-port WiFi Gateway; Wireless N ADSL2+ 4-port Gateway with USB; 802.11n Wireless ADSL2+ 4-port Gateway
Model No.	:	P-660HN-51; P-660HNU-51; DSL-101HN-B1
FCC ID		I88P660HN51

It is a serials report. The original report No.: SEFI1007018.

- The test result refers exclusively to the test presented test model / sample.
- Without written approval of ***Cerpass Technology Corp.*** the test report shall not be reproduced except in full.
- 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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Document history

Attachment No.	Date	Description
SEFI1110042	October 31, 2011	First issue
SEFI1007018-B	December 23, 2011	Second edition (Add two equipment names, two model names, one power adapter, one USB interface.)

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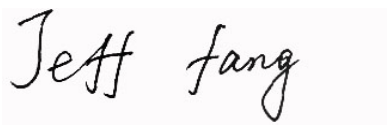
FCC ID		I88P660HN51

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 Dec 19, 2011 at ***Cerpass Technology Corp.***

Documented By:



Jeff Fang/ Administration

Approved By:

Miro Chueh / 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

802.11n ADSL2+ 4-port WiFi Gateway; Wireless N ADSL2+ 4-port Gateway with USB; 802.11n Wireless ADSL2+ 4-port Gateway	Model No:	P-660HN-51;P-660HNU-51;DSL-101HN-B1
Power Adapter	Model No:	ADS 0128-W 120100
	Input:	100~240V AC 50-60Hz 0.5A
	Output:	12V⎓1.0A
Add one adapter 1#	Manufacturer:	LEI
	Model No.:	MU18-D120150-A1
	Input:	100-240V~50-60Hz, 0.6A
	Output:	12V⎓1.5A
Power supply cable	Non-Shielded, 1.5m	
Remark	1) They add models P-660HNU-51,DSL-101HN-B1 and P-660HN-51 is the same product, just for different customers	
	2) They add products Wireless N ADSL2+ 4-port Gateway with USB, 802.11n Wireless ADSL2+ 4-port Gateway	
	3) In the original foundation increased the USB interface	
	4) **P-660HN-51** was selected as the test model and its data have been recorded in this report.	

WLAN	Broadcom/BCM43225
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	Dipole
Antenna Gain	Ant0: C034-510777-A/3.5dBi; Ant1: C034-510776-A/3.5dBi;

2.2. Carrier Frequency of Channels

For 2.4G 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	---	---

For 2.4G 802.11n (40MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
01	---	08	2447
02	---	09	2452
03	2422	---	---
04	2427	---	---
05	2432	---	---
06	2437	---	---
07	2442	---	---

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	Adjust the EUT at the test mode and the test channel. Then test.
The test modes:	
	Mode 1: Transmit by 802.11b (An0)
	Mode 2: Transmit by 802.11g (An0)
	Mode 3: Transmit by 802.11n (20MHz) (An0 and An1)
	Mode 4: Transmit by 802.11n (40MHz) (An0 and An1)

2.4. Description of Test System

No	Device	Manufacturer	Model No.	Description
1	HUB	D-Link	DI-504	N/A
2	IP Express	ASKEY	N/A	N/A
3	Notebook	ASUS	W6A	Power by adaptor
4	IPOD	Apple	MA477TA/A	N/A

2.5. General Information of Test

Test Site:	Cerpass 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-1945 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

2.6. 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 μ V)	Average (dB μ 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.

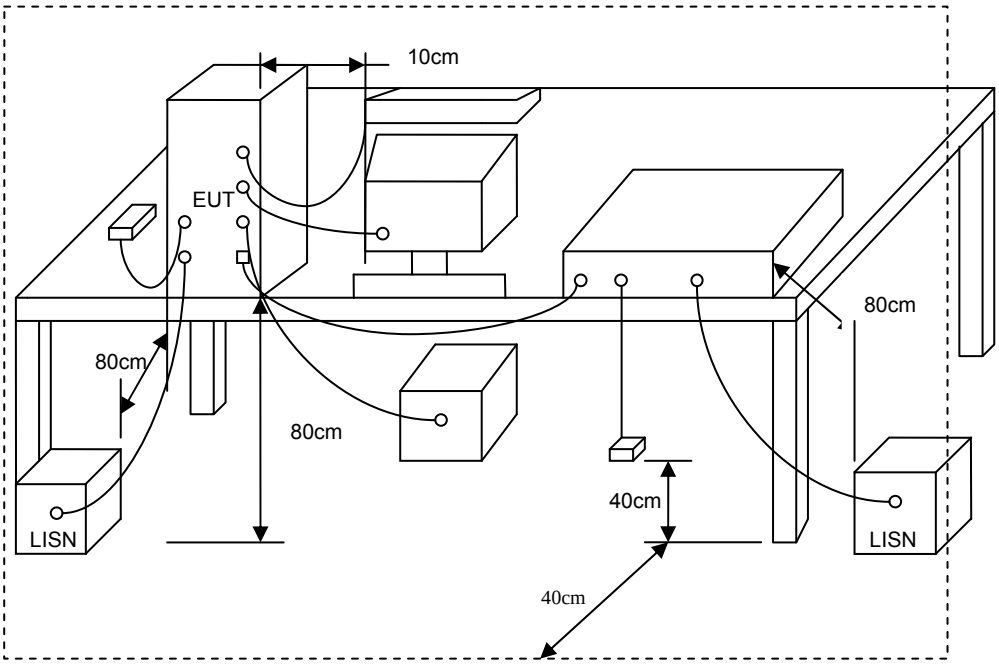
The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are 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

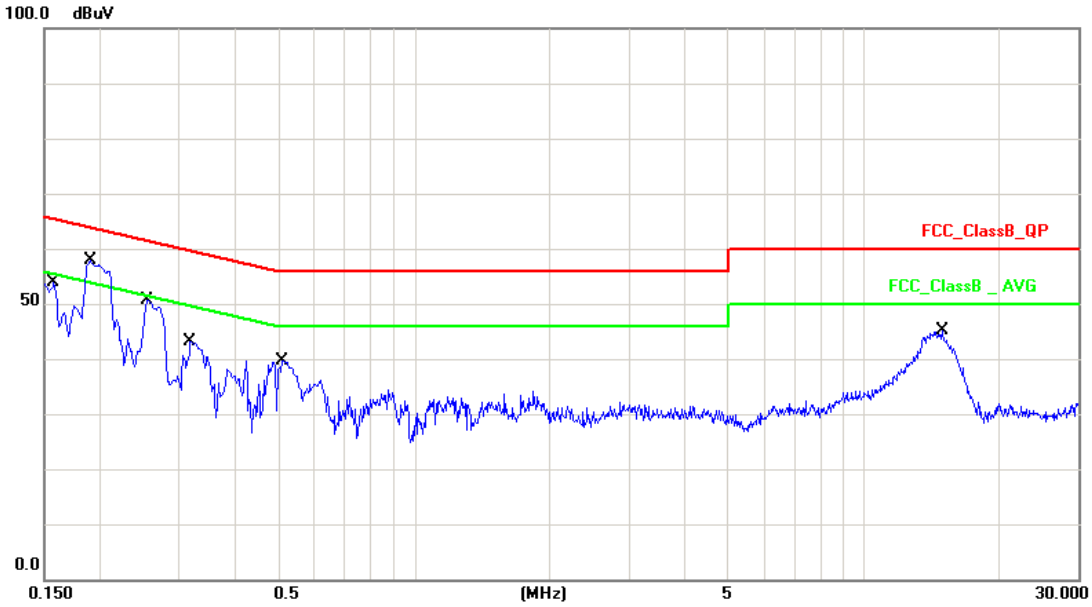


3.4. Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date
Test Receiver	R&S	ESCI	100565	2011.01.15
AMN	R&S	ESH2-Z5	100182	2011.03.14
Two-Line V-Network	R&S	ENV216	100325	2011.03.14
ISN	FCC	FCC-TLISN-T2-02	20379	2011.03.14
ISN	FCC	FCC-TLISN-T4-02	20380	2011.03.14
ISN	FCC	FCC-TLISN-T8-02	20381	2011.03.14
Attenuator	R&S	ESH3-Z2	100529	2011.03.14
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-004	2011.03.14

3.5. Test Result and Data

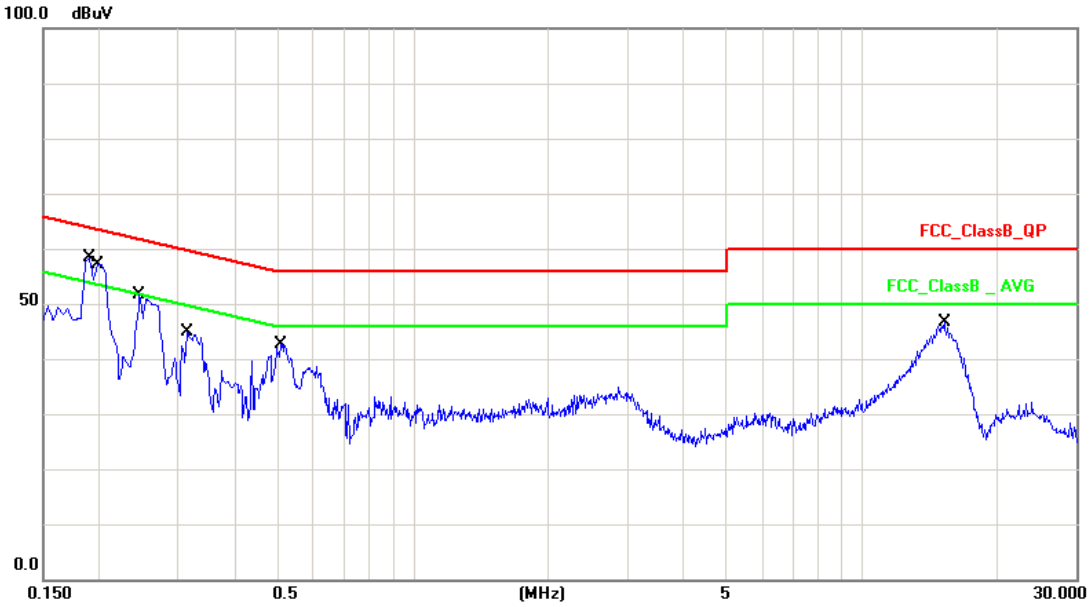
Test Mode :	Normal Link		
AC Power :	AC 120V/60Hz	Phase :	Line
Temperature :	20°C	Humidity:	51%
Pressur(mbar) :	1002	Date:	2011/12/20



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	19.87	22.28	42.15	65.56	-23.41	QP
2	0.1580	19.87	2.26	22.13	55.56	-33.43	AVG
3	0.1900	19.87	34.63	54.50	64.03	-9.53	QP
4	0.1900	19.87	15.51	35.38	54.03	-18.65	AVG
5	0.2540	19.86	26.78	46.64	61.62	-14.98	QP
6	0.2540	19.86	8.82	28.68	51.62	-22.94	AVG
7	0.3180	19.87	19.25	39.12	59.76	-20.64	QP
8	0.3180	19.87	3.98	23.85	49.76	-25.91	AVG
9	0.5100	19.85	17.24	37.09	56.00	-18.91	QP
10	0.5100	19.85	5.94	25.79	46.00	-20.21	AVG
11	14.9700	19.82	18.71	38.53	60.00	-21.47	QP
12	14.9700	19.82	12.34	32.16	50.00	-17.84	AVG

Note: Measurement Level = Reading Level + Correct Factor

Test Mode :	Normal Link		
AC Power :	AC 120V/60Hz	Phase :	Neutral
Temperature :	20°C	Humidity :	51%
Pressur(mbar) :	1002	Date :	2011/12/20



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1900	19.50	35.41	54.91	64.03	-9.12	QP
2	0.1900	19.50	17.51	37.01	54.03	-17.02	AVG
3	0.1980	19.50	35.00	54.50	63.69	-9.19	QP
4	0.1980	19.50	20.14	39.64	53.69	-14.05	AVG
5	0.2460	19.50	17.46	36.96	61.89	-24.93	QP
6	0.2460	19.50	1.39	20.89	51.89	-31.00	AVG
7	0.3140	19.51	18.14	37.65	59.86	-22.21	QP
8	0.3140	19.51	2.21	21.72	49.86	-28.14	AVG
9	0.5100	19.50	18.80	38.30	56.00	-17.70	QP
10	0.5100	19.50	7.45	26.95	46.00	-19.05	AVG
11	15.2300	19.94	21.01	40.95	60.00	-19.05	QP
12	15.2300	19.94	14.81	34.75	50.00	-15.25	AVG

Note: Measurement Level = Reading Level + Correct Factor

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)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

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.

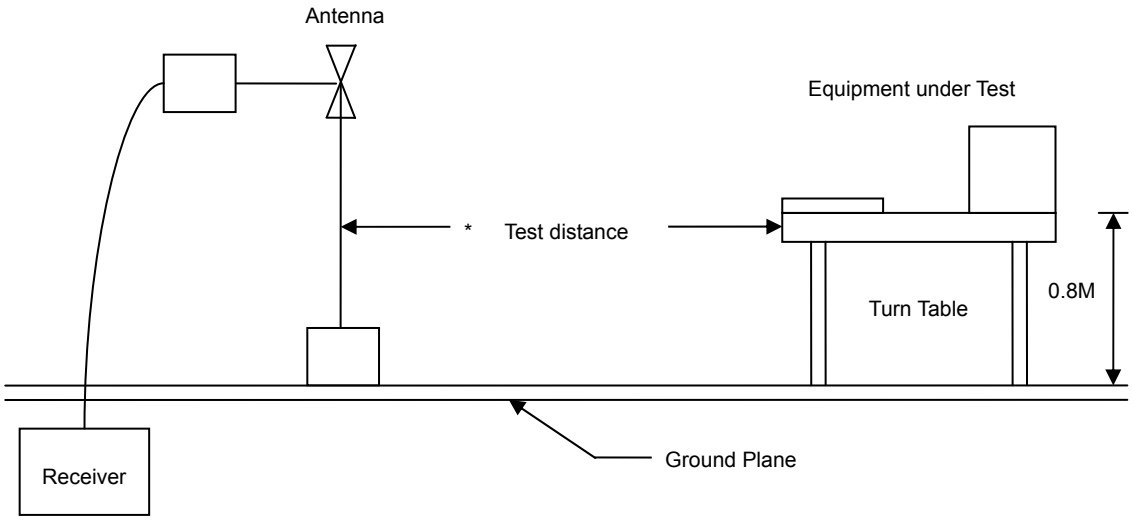
The spectrum from 30MHz to 26GHz is investigated with the transmitter set to the lowest, middle and highest channels in the 2.4GHz band.

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



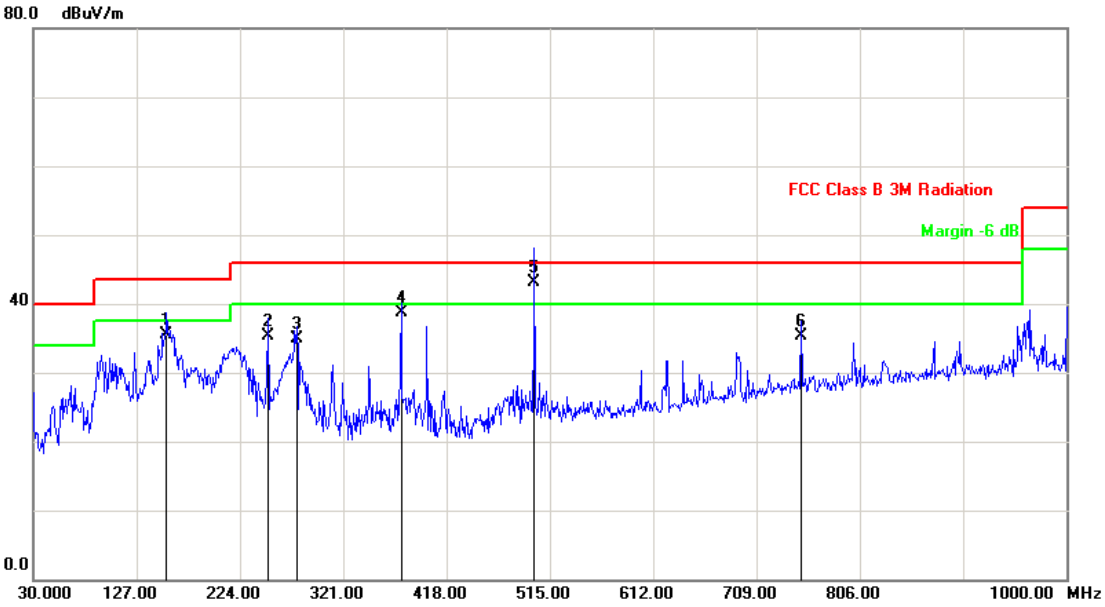
4.4. Measurement Equipment

Instrument	Model No.	Manufacturer	Serial No.	Calibration Date
EMI Test Receiver	R&S	ESCI	101183	2011.05.11
H64 Amplifier	HP	8447F	3113A05582	2011.08.14
Preamplifier	Agilent	8449B	3008A02342	2011.02.10
Ultra Broadband Antenna	R&S	HL562	100363	2011.05.07
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-619	2011.05.07
Spectrum Analyzer	R&S	FSP40	100324	2011.08.14
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2011.08.17

4.5. Test Result and Data

Under 1G:

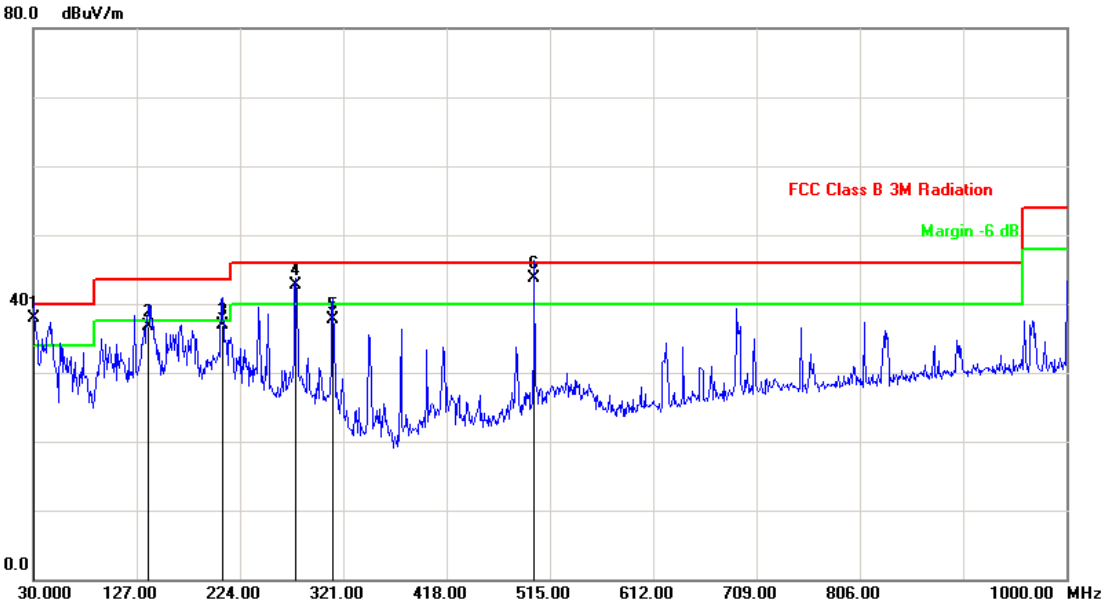
Test Mode :	Normal Operation		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Horizontal
Temp :	23℃	Humidity :	52%
Pressure(mbar) :	1002	Date :	2011/12/20



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	155.1300	-15.50	51.05	35.55	43.50	-7.95	QP	200	159
2	250.1900	-12.74	47.95	35.21	46.00	-10.79	QP	100	151
3	277.3500	-11.73	46.68	34.95	46.00	-11.05	QP	100	167
4	375.3200	-8.36	47.01	38.65	46.00	-7.35	QP	100	334
5	499.9920	-4.82	47.97	43.15	46.00	-2.85	QP	100	25
6	750.7100	0.28	34.95	35.23	46.00	-10.77	QP	123	0

Note: Measurement Level = Reading Level + Correct Factor

Test Mode :	Normal Operation		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Vertical
Temp :	23℃	Humidity :	52%
Pressure(mbar) :	1002	Date :	2011/12/20

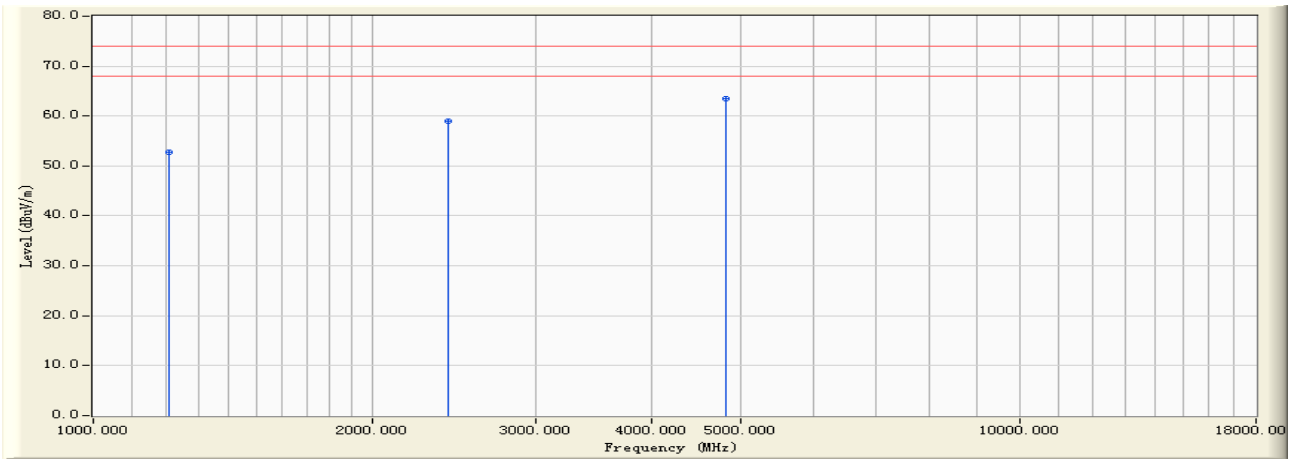


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.6200	-5.35	43.25	37.90	40.00	-2.10	QP	100	41
2	138.6399	-14.87	51.52	36.65	43.50	-6.85	QP	100	178
3	207.5099	-14.95	51.90	36.95	43.50	-6.55	QP	100	200
4	276.3798	-11.76	54.44	42.68	46.00	-3.32	QP	100	194
5	311.3000	-10.52	48.14	37.62	46.00	-8.38	QP	100	181
6	500.4499	-4.81	48.46	43.65	46.00	-2.35	QP	100	175

Note: Measurement Level = Reading Level + Correct Factor

Above 1G:

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/07/24 - 16:07**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 1:Transmit by 802.11b (An0) (2412MHz)**

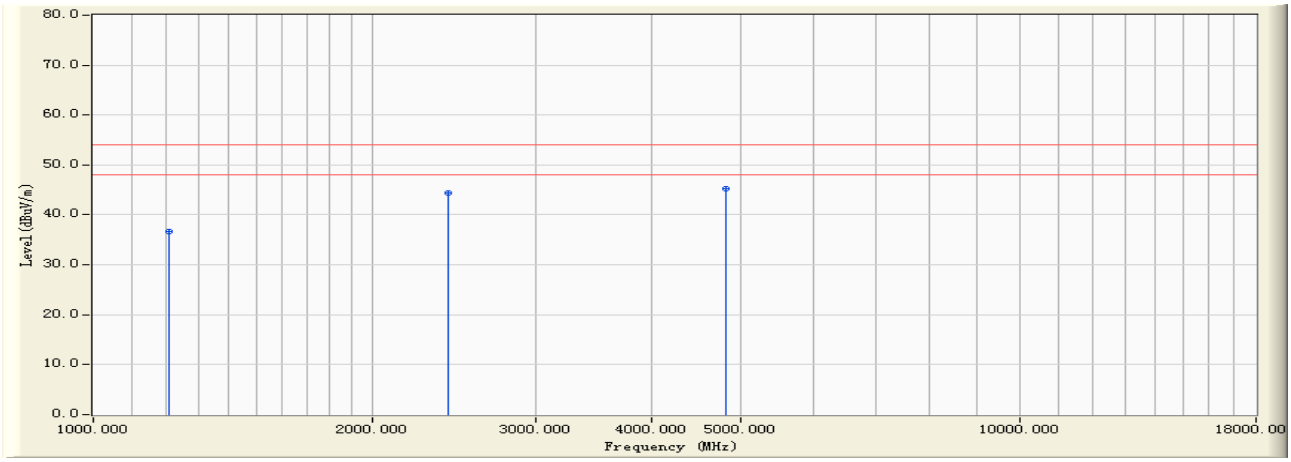


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.350	-5.883	58.620	52.736	-21.264	74.000	PEAK
2		2412.350	0.429	58.620	59.050	-14.950	74.000	PEAK
3	*	4825.370	7.350	56.240	63.591	-10.409	74.000	PEAK

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 : 2010/07/24 - 16:07**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 1:Transmit by 802.11b (An0) (2412MHz)**

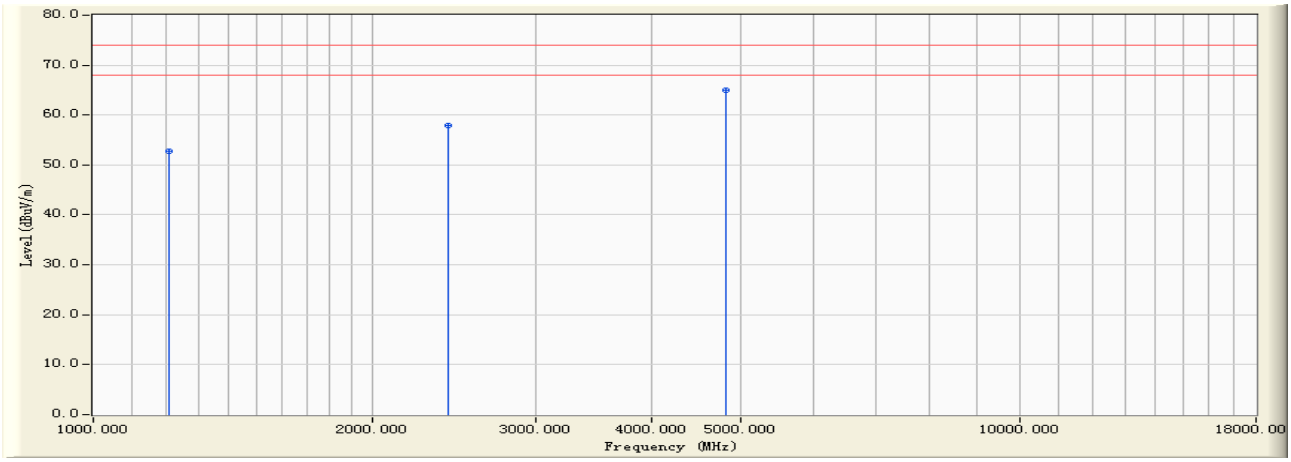


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.350	-5.883	42.620	36.736	-17.264	54.000	AVERAGE
2		2412.350	0.429	43.910	44.340	-9.660	54.000	AVERAGE
3	*	4825.370	7.350	37.910	45.261	-8.739	54.000	AVERAGE

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 : 2010/07/24 - 16:09**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 1:Transmit by 802.11b (An0) (2412MHz)**

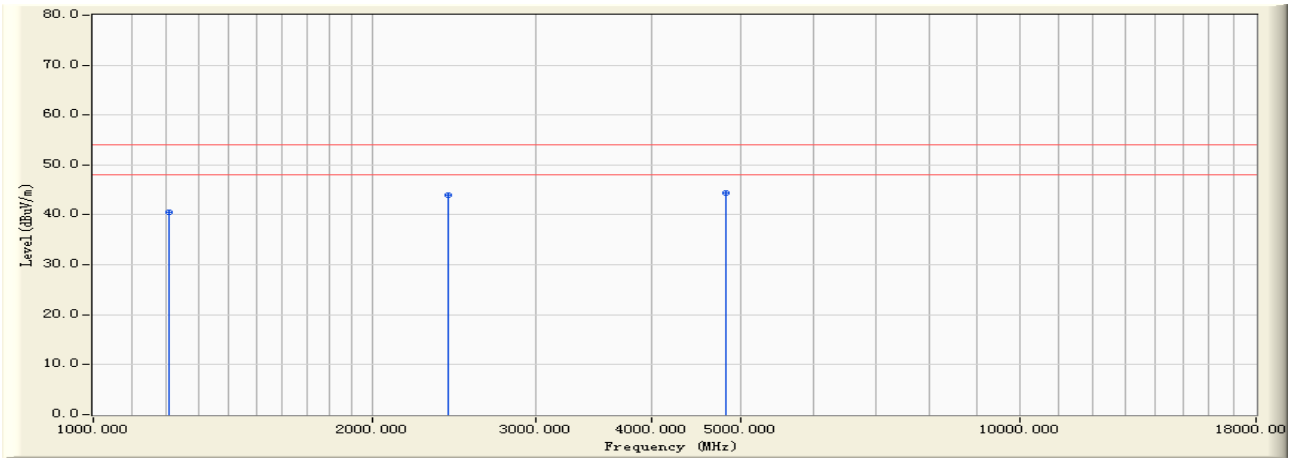


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1208.620	-5.871	58.640	52.769	-21.231	74.000	PEAK
2		2412.290	0.429	57.530	57.959	-16.041	74.000	PEAK
3	*	4825.360	7.350	57.620	64.971	-9.029	74.000	PEAK

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 : 2010/07/24 - 16:09**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 1:Transmit by 802.11b (An0) (2412MHz)**

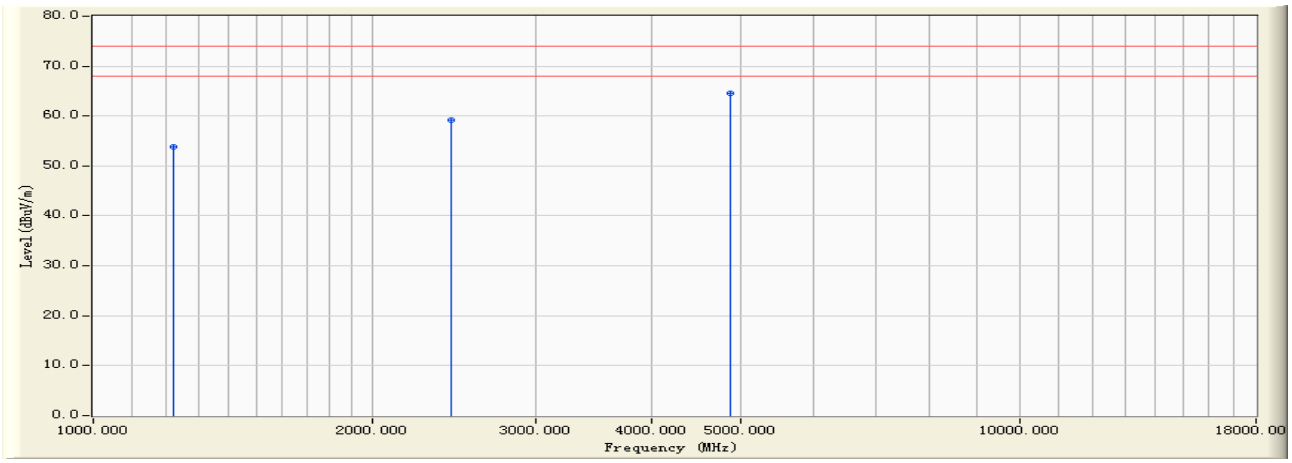


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1208.620	-5.871	46.510	40.639	-13.361	54.000	AVERAGE
2		2412.290	0.429	43.570	43.999	-10.001	54.000	AVERAGE
3	*	4825.360	7.350	37.070	44.421	-9.579	54.000	AVERAGE

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 : 2010/07/24 - 16:10**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 1:Transmit by 802.11b (An0) (2437MHz)**

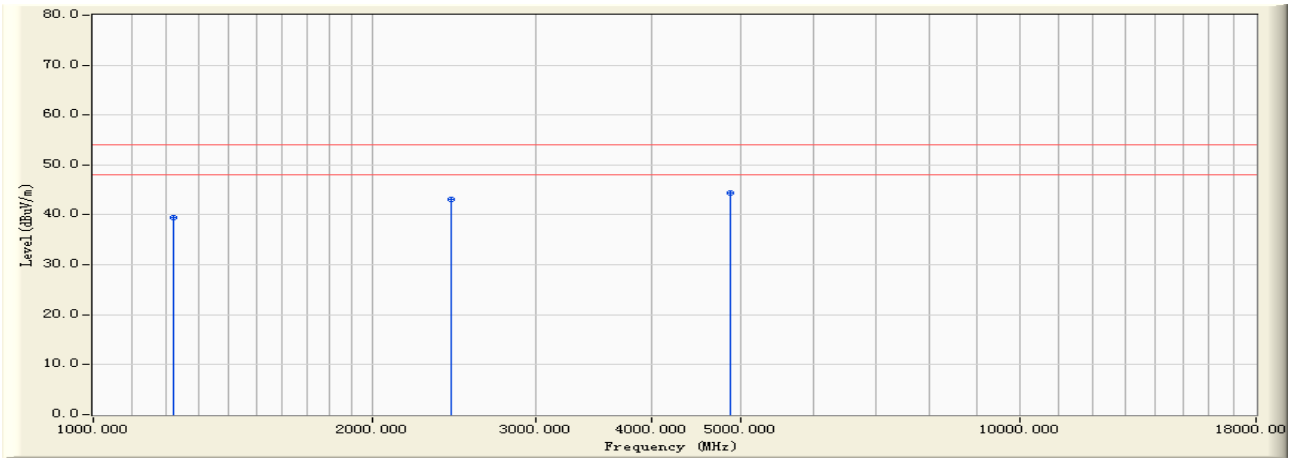


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.350	-5.759	59.610	53.852	-20.148	74.000	PEAK
2		2437.590	0.510	58.610	59.121	-14.879	74.000	PEAK
3	*	4875.360	7.459	57.120	64.580	-9.420	74.000	PEAK

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 : 2010/07/24 - 16:10**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 1:Transmit by 802.11b (An0) (2437MHz)**

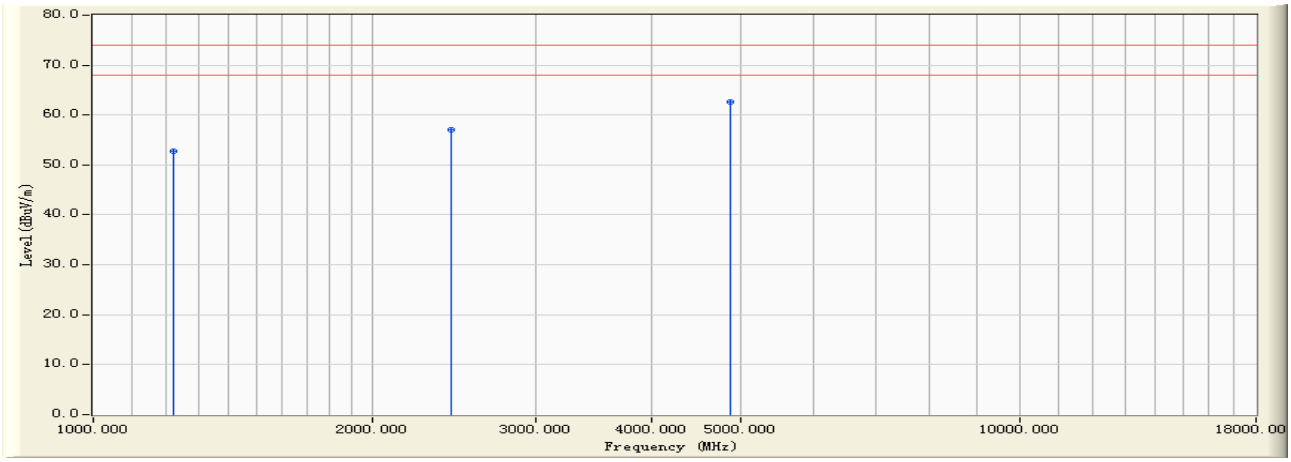


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.350	-5.759	45.210	39.452	-14.548	54.000	AVERAGE
2		2437.590	0.510	42.510	43.021	-10.979	54.000	AVERAGE
3	*	4875.360	7.459	37.040	44.500	-9.500	54.000	AVERAGE

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 : 2010/07/24 - 16:11**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 1:Transmit by 802.11b (An0) (2437MHz)**

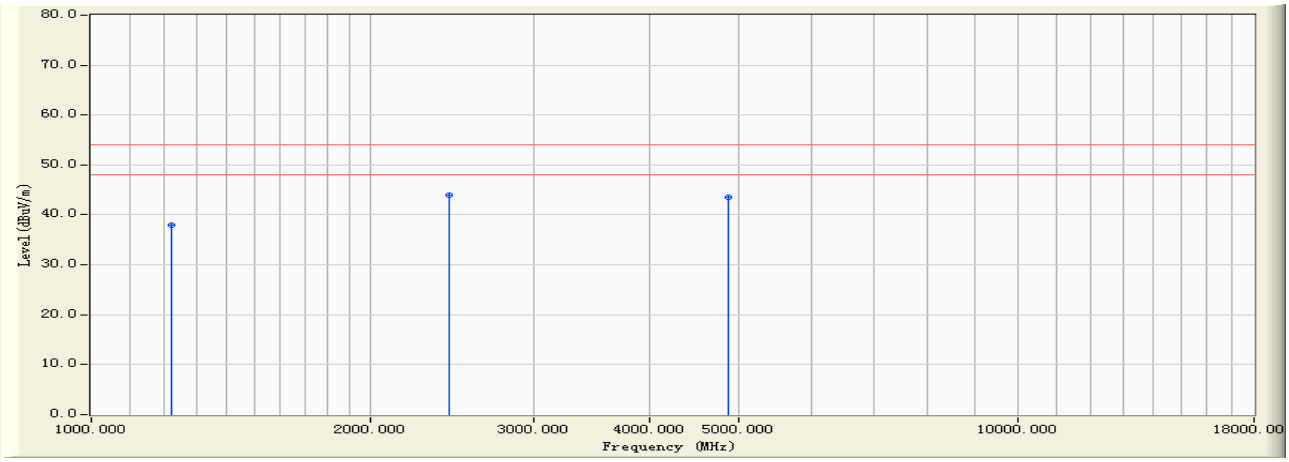


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.870	-5.752	58.620	52.867	-21.133	74.000	PEAK
2		2437.120	0.509	56.520	57.030	-16.970	74.000	PEAK
3	*	4875.360	7.459	55.210	62.670	-11.330	74.000	PEAK

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 : 2010/07/24 - 16:11**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 1:Transmit by 802.11b (An0) (2437MHz)**

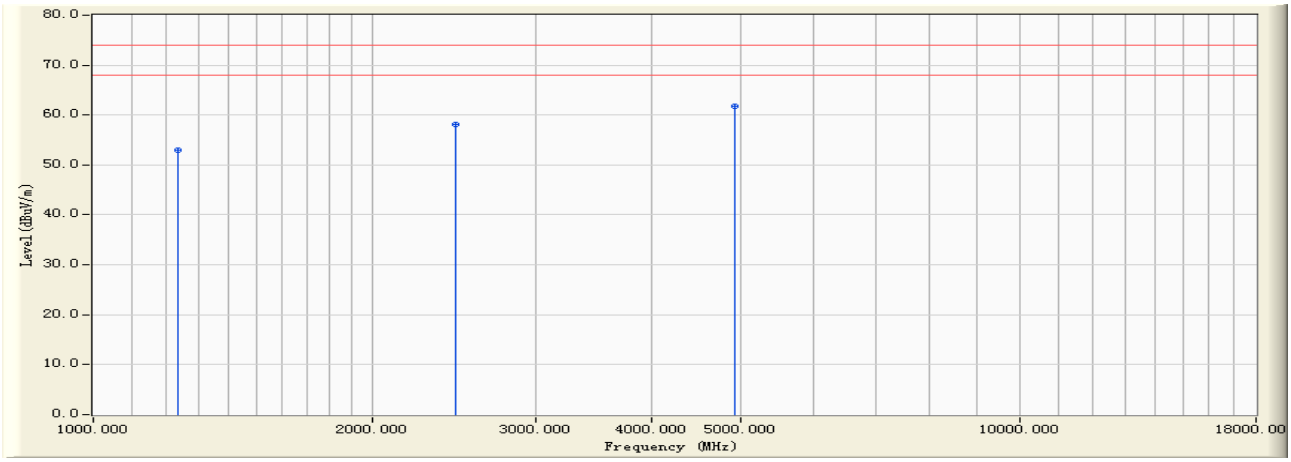


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.870	-5.752	43.650	37.897	-16.103	54.000	AVERAGE
2	*	2437.120	0.509	43.540	44.050	-9.950	54.000	AVERAGE
3		4875.360	7.459	36.080	43.540	-10.460	54.000	AVERAGE

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 : 2010/07/24 - 16:13**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 1:Transmit by 802.11b (An0) (2462MHz)**

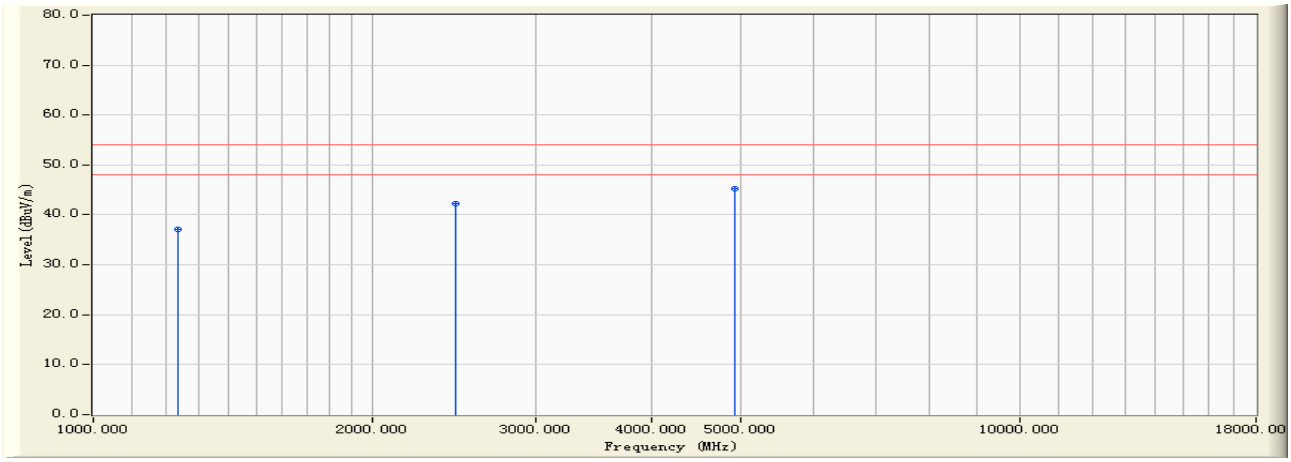


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1232.250	-5.617	58.610	52.994	-21.006	74.000	PEAK
2		2462.150	0.600	57.450	58.050	-15.950	74.000	PEAK
3	*	4924.630	7.566	54.280	61.846	-12.154	74.000	PEAK

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 : 2010/07/24 - 16:13**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 1:Transmit by 802.11b (An0) (2462MHz)**

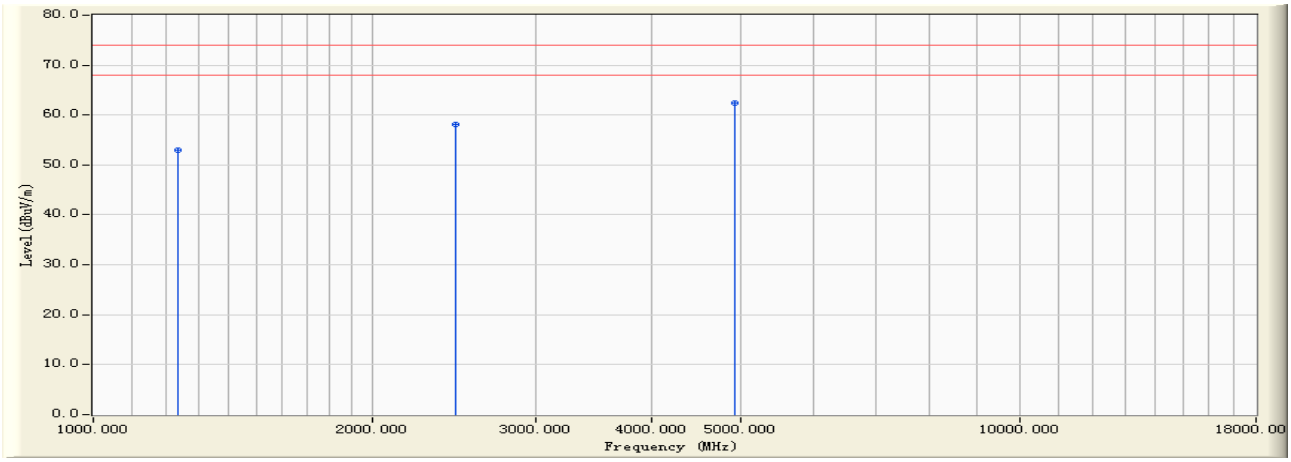


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1232.250	-5.617	42.650	37.034	-16.966	54.000	AVERAGE
2		2462.150	0.600	41.620	42.220	-11.780	54.000	AVERAGE
3	*	4924.630	7.566	37.770	45.336	-8.664	54.000	AVERAGE

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 : 2010/07/24 - 16:15**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 1:Transmit by 802.11b (An0) (2462MHz)**

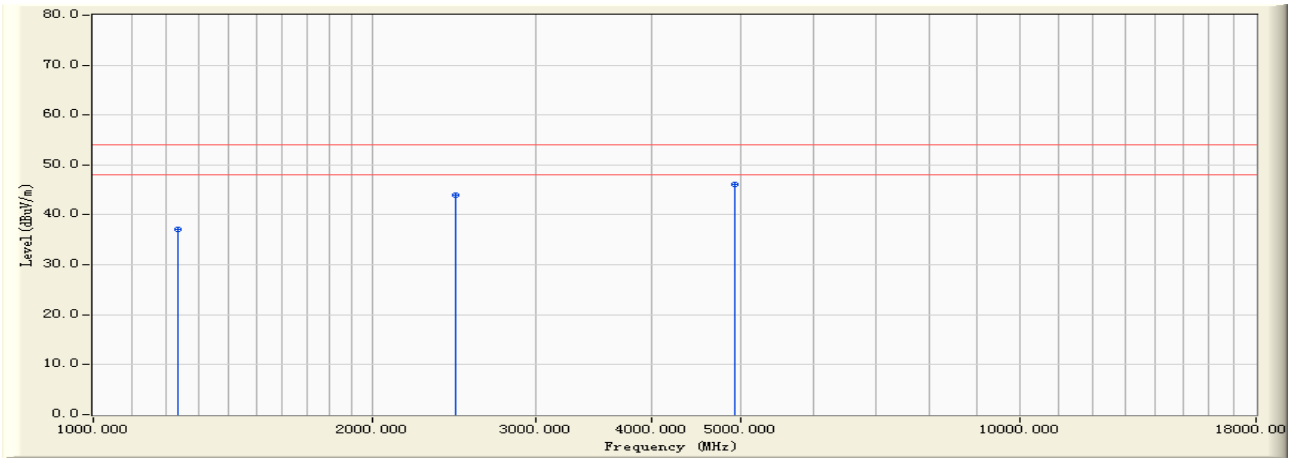


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1232.450	-5.613	58.640	53.026	-20.974	74.000	PEAK
2		2462.150	0.600	57.430	58.030	-15.970	74.000	PEAK
3	*	4925.670	7.569	54.830	62.398	-11.602	74.000	PEAK

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 : 2010/07/24 - 16:15**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 1:Transmit by 802.11b (An0) (2462MHz)**

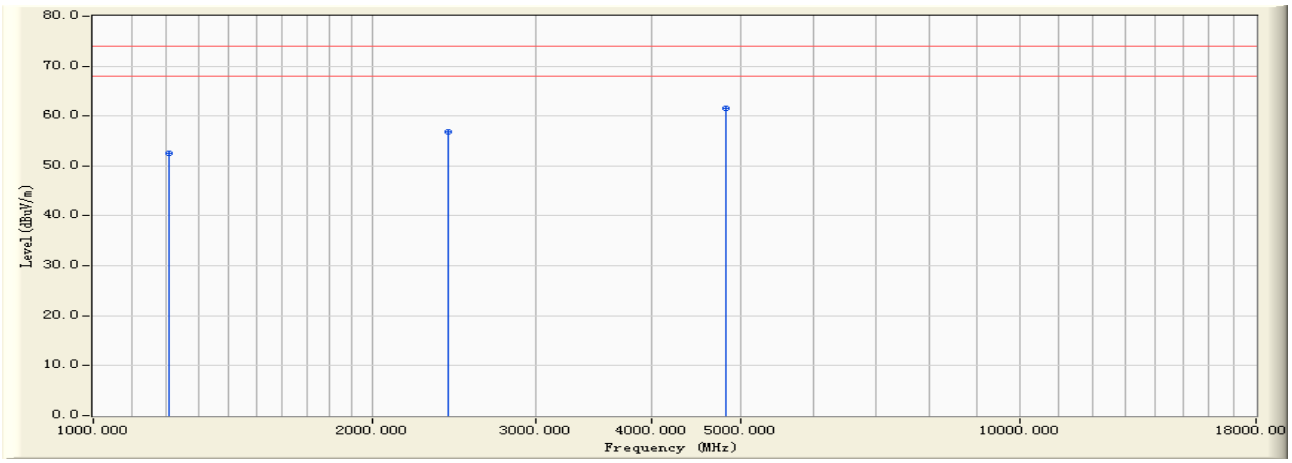


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1232.450	-5.613	42.690	37.076	-16.924	54.000	AVERAGE
2		2462.150	0.600	43.360	43.960	-10.040	54.000	AVERAGE
3	*	4925.670	7.569	38.610	46.178	-7.822	54.000	AVERAGE

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 : 2010/07/24 - 16:17**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2412MHz)**

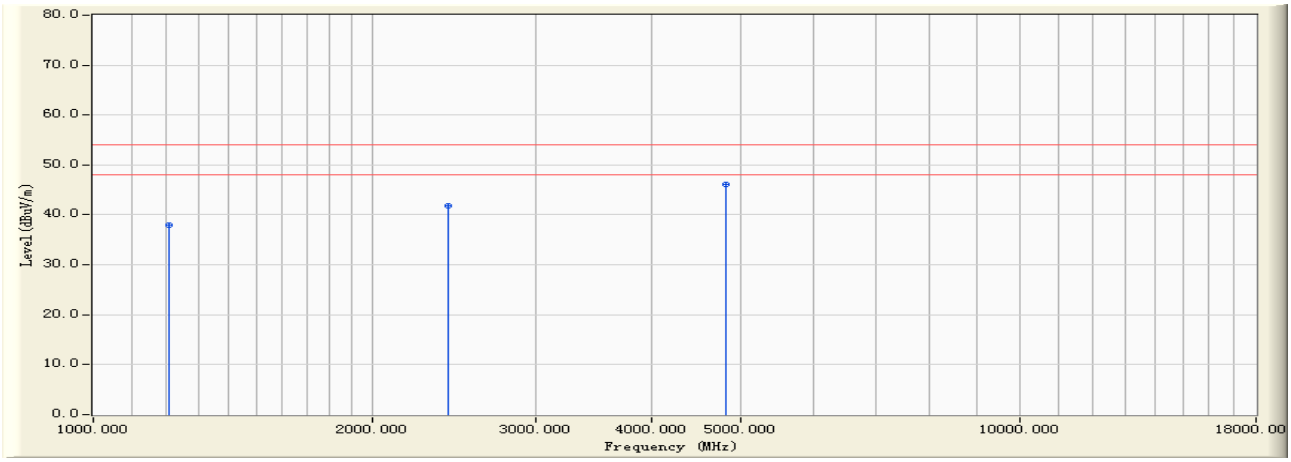


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.360	-5.883	58.420	52.536	-21.464	74.000	PEAK
2		2412.190	0.429	56.450	56.879	-17.121	74.000	PEAK
3	*	4825.610	7.351	54.220	61.571	-12.429	74.000	PEAK

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 : 2010/07/24 - 16:17**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2412MHz)**

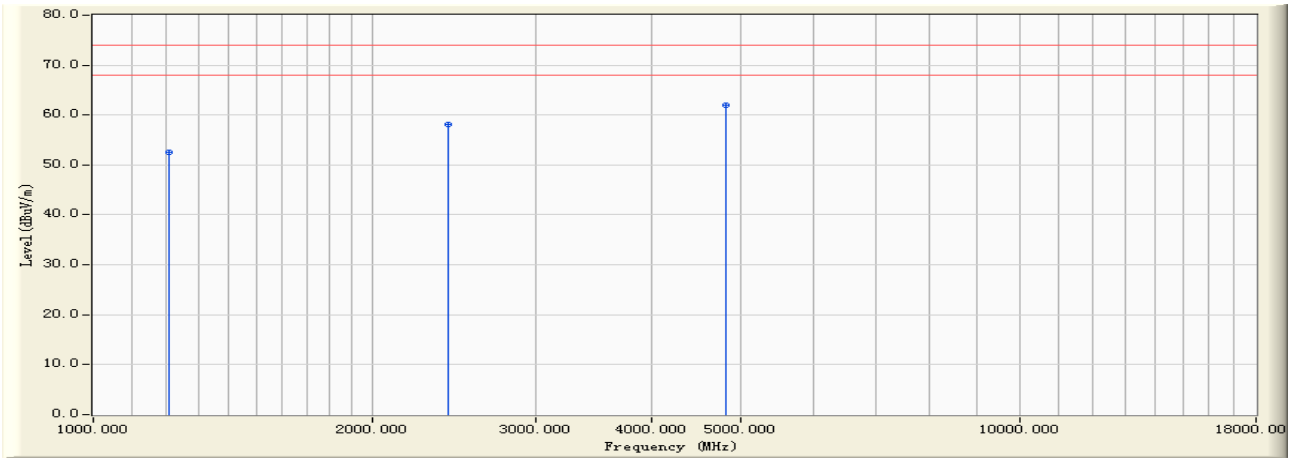


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.360	-5.883	43.850	37.966	-16.034	54.000	AVERAGE
2		2412.190	0.429	41.350	41.779	-12.221	54.000	AVERAGE
3	*	4825.610	7.351	38.670	46.021	-7.979	54.000	AVERAGE

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 : 2010/07/24 - 16:19**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2412MHz)**

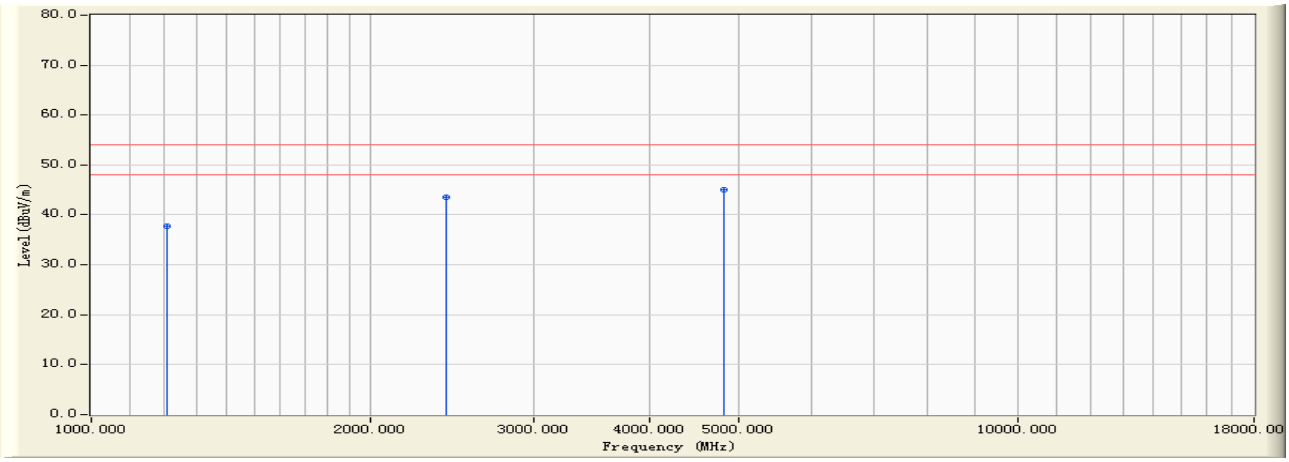


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1208.360	-5.874	58.510	52.637	-21.363	74.000	PEAK
2		2412.350	0.429	57.690	58.120	-15.880	74.000	PEAK
3	*	4825.640	7.352	54.630	61.981	-12.019	74.000	PEAK

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 : 2010/07/24 - 16:19**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2412MHz)**

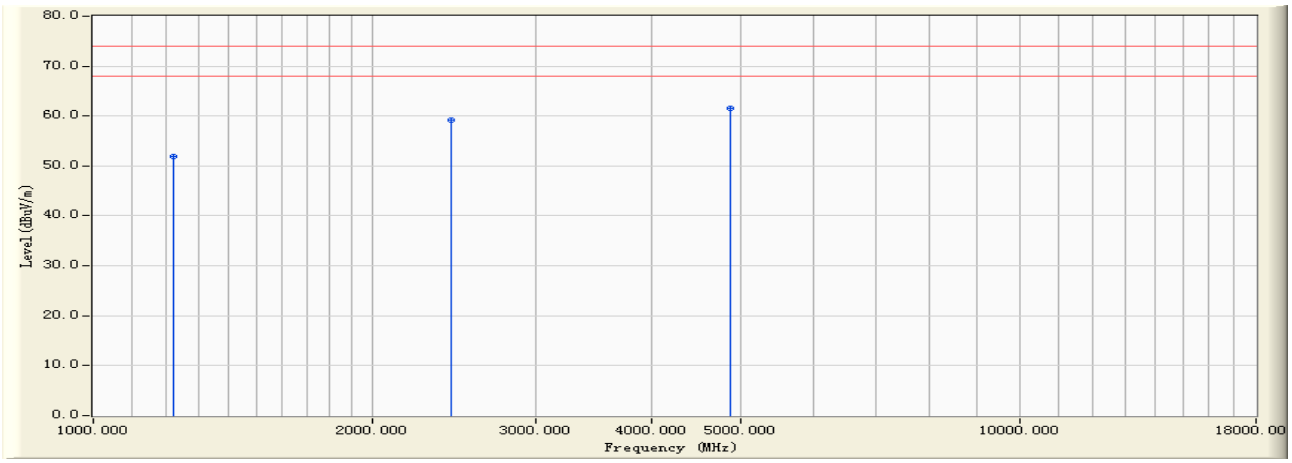


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1208.360	-5.874	43.580	37.707	-16.293	54.000	AVERAGE
2		2412.350	0.429	43.180	43.610	-10.390	54.000	AVERAGE
3	*	4825.640	7.352	37.610	44.961	-9.039	54.000	AVERAGE

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 : 2010/07/24 - 16:20**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2437MHz)**

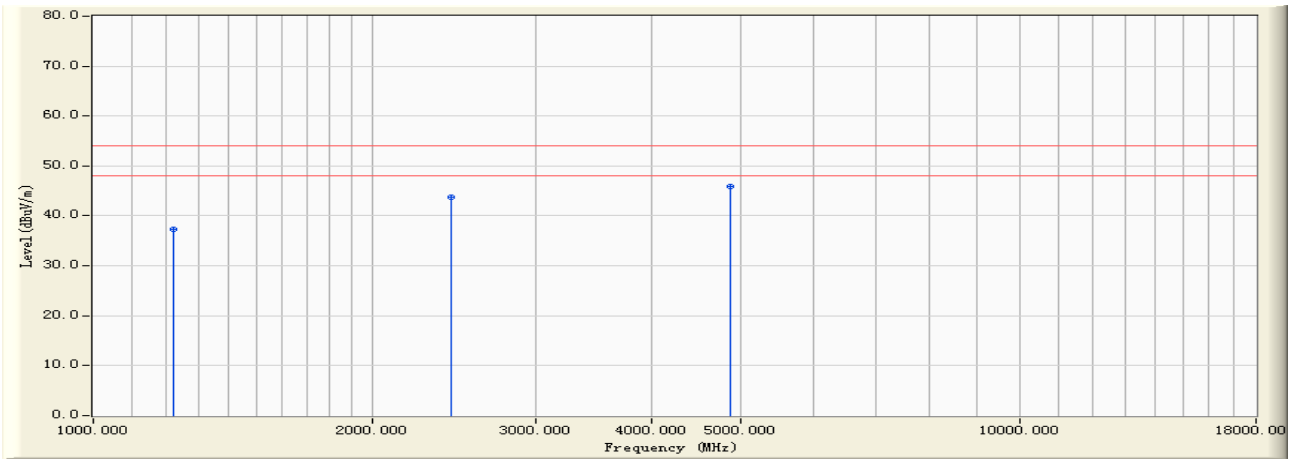


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.350	-5.759	57.620	51.862	-22.138	74.000	PEAK
2		2437.180	0.510	58.640	59.150	-14.850	74.000	PEAK
3	*	4875.630	7.461	54.170	61.630	-12.370	74.000	PEAK

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 : 2010/07/24 - 16:20**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2437MHz)**

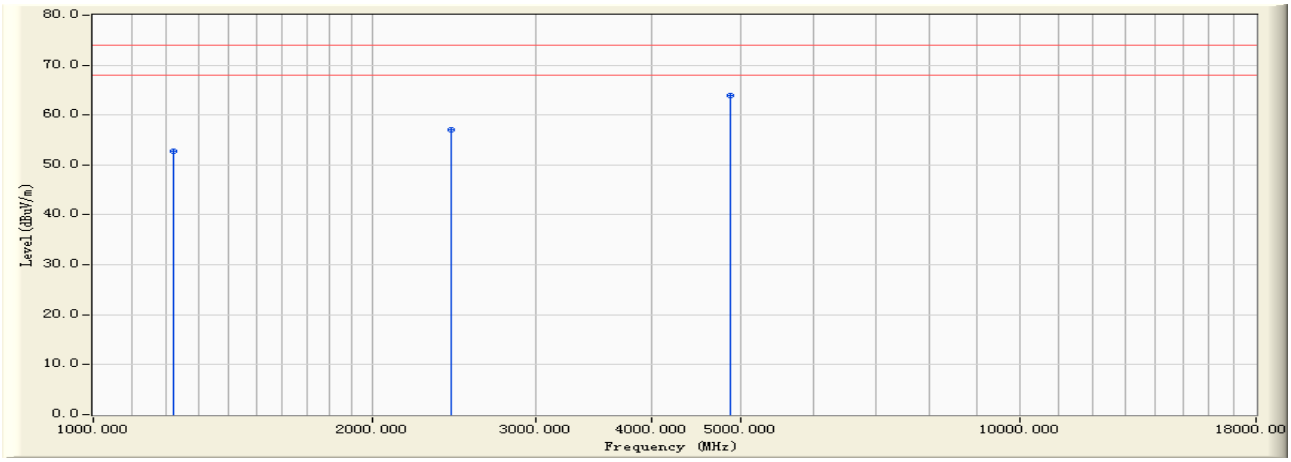


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.350	-5.759	43.180	37.422	-16.578	54.000	AVERAGE
2		2437.180	0.510	43.140	43.650	-10.350	54.000	AVERAGE
3	*	4875.630	7.461	38.520	45.980	-8.020	54.000	AVERAGE

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 : 2010/07/24 - 16:22**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2437MHz)**

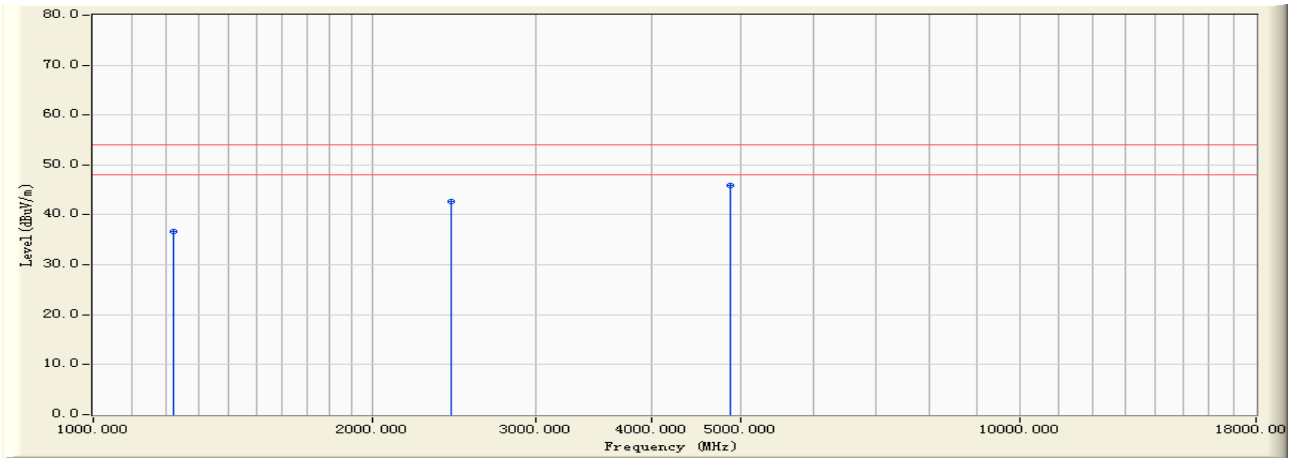


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.340	-5.759	58.620	52.861	-21.139	74.000	PEAK
2		2437.560	0.510	56.520	57.031	-16.969	74.000	PEAK
3	*	4875.640	7.461	56.520	63.980	-10.020	74.000	PEAK

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 : 2010/07/24 - 16:22**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2437MHz)**

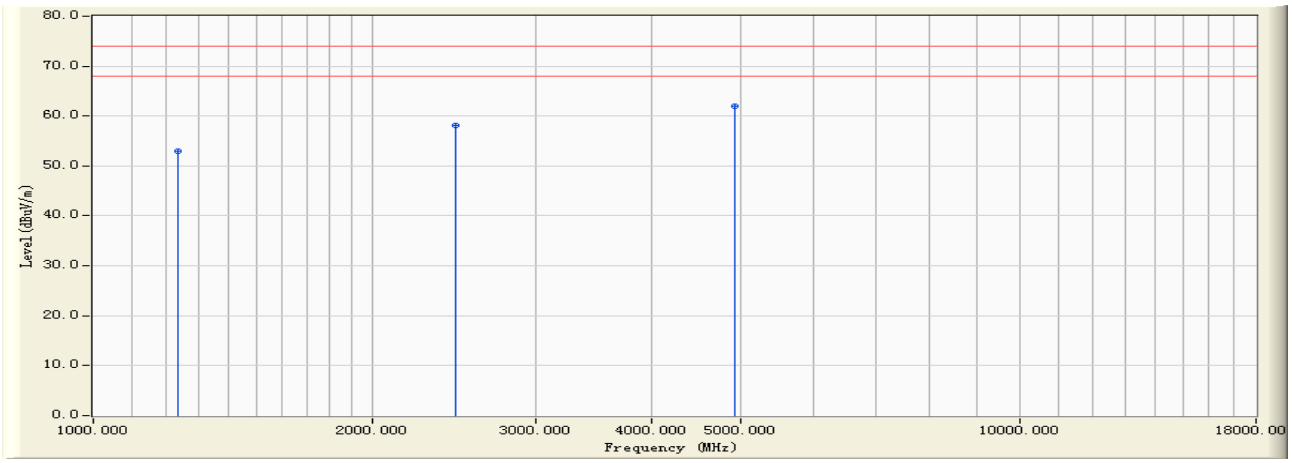


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.340	-5.759	42.510	36.751	-17.249	54.000	AVERAGE
2		2437.560	0.510	42.180	42.691	-11.309	54.000	AVERAGE
3	*	4875.640	7.461	38.410	45.870	-8.130	54.000	AVERAGE

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 : 2010/07/24 - 16:23**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2462MHz)**

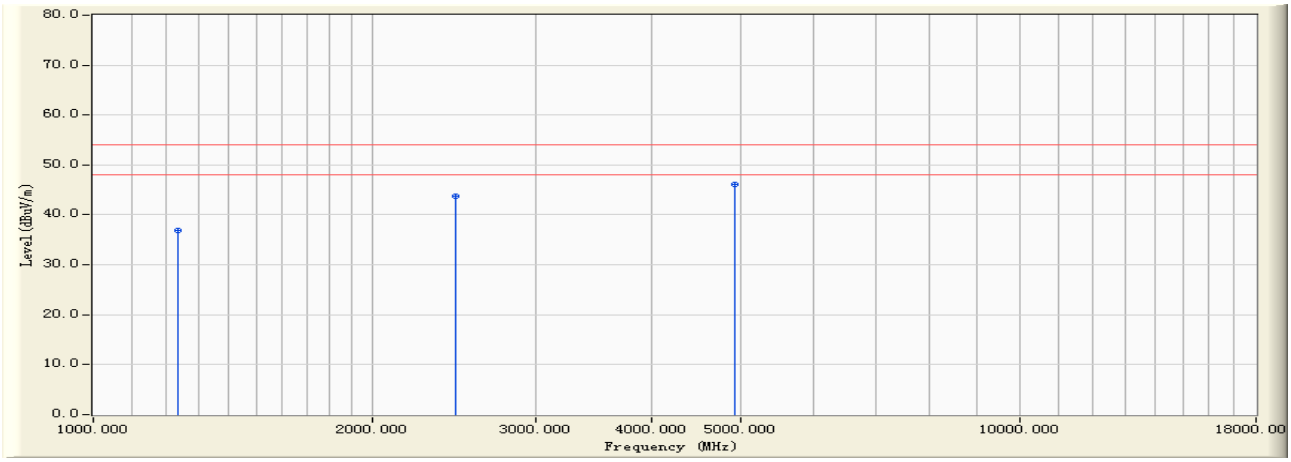


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1233.480	-5.602	58.490	52.888	-21.112	74.000	PEAK
2		2462.140	0.600	57.530	58.130	-15.870	74.000	PEAK
3	*	4925.670	7.569	54.520	62.088	-11.912	74.000	PEAK

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 : 2010/07/24 - 16:23**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2462MHz)**

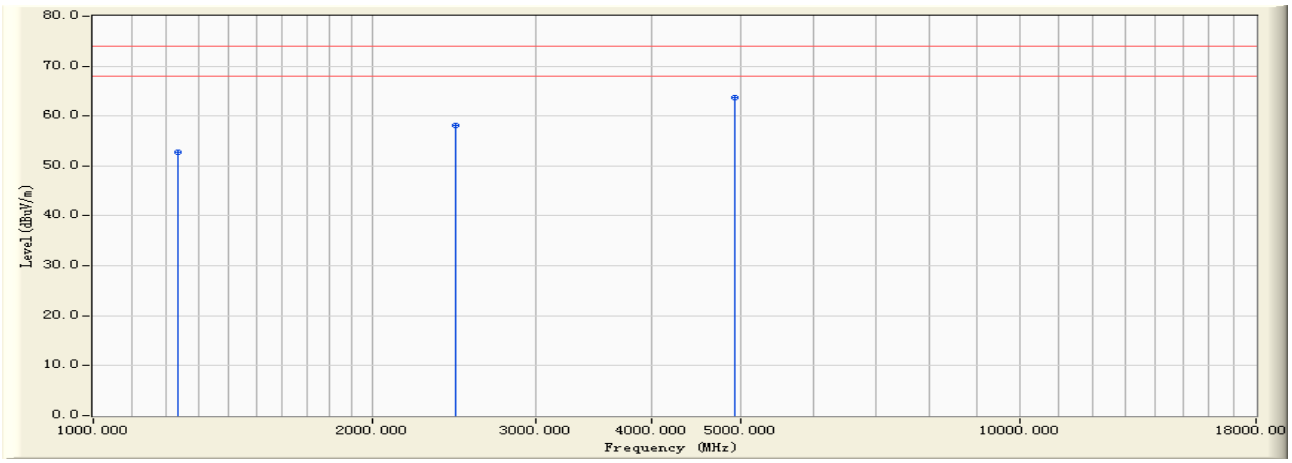


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1233.480	-5.602	42.510	36.908	-17.092	54.000	AVERAGE
2		2462.140	0.600	43.150	43.750	-10.250	54.000	AVERAGE
3	*	4925.670	7.569	38.620	46.188	-7.812	54.000	AVERAGE

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 : 2010/07/24 - 16:24**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2462MHz)**

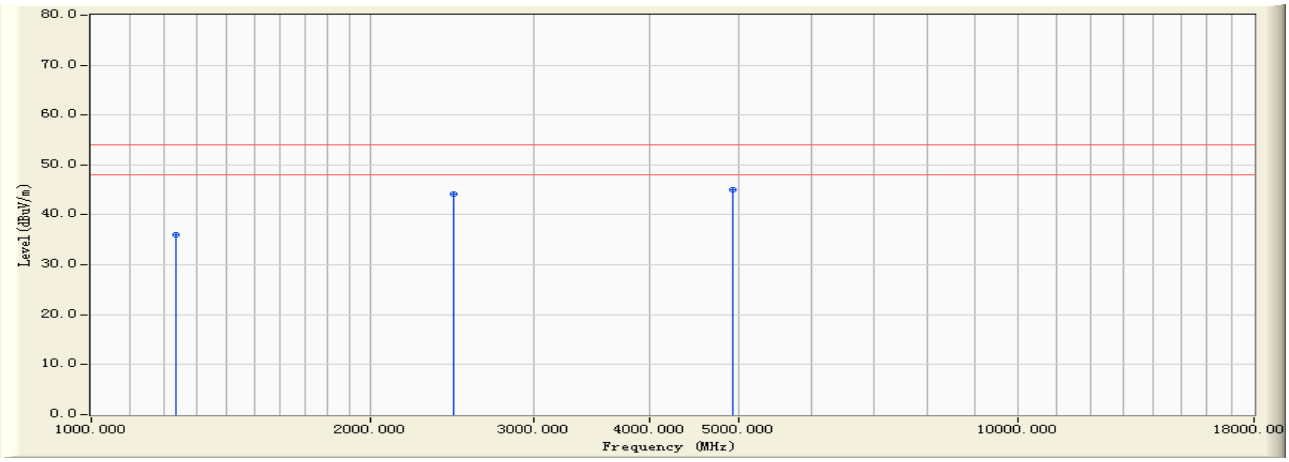


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1232.630	-5.612	58.460	52.848	-21.152	74.000	PEAK
2		2462.540	0.601	57.420	58.021	-15.979	74.000	PEAK
3	*	4925.570	7.567	56.230	63.798	-10.202	74.000	PEAK

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 : 2010/07/24 - 16:24**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2462MHz)**

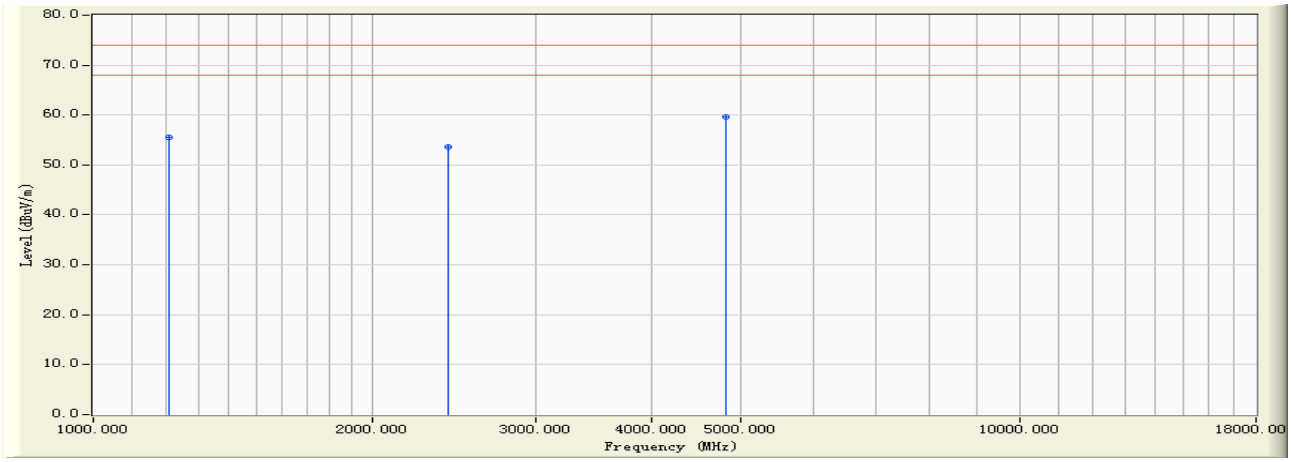


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1232.630	-5.612	41.570	35.958	-18.042	54.000	AVERAGE
2		2462.540	0.601	43.580	44.181	-9.819	54.000	AVERAGE
3	*	4925.570	7.567	37.530	45.098	-8.902	54.000	AVERAGE

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 : 2010/07/24 - 16:31**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 3:Transmit by 802.11n(20MHz) (An0 and An1) (2412MHz)**

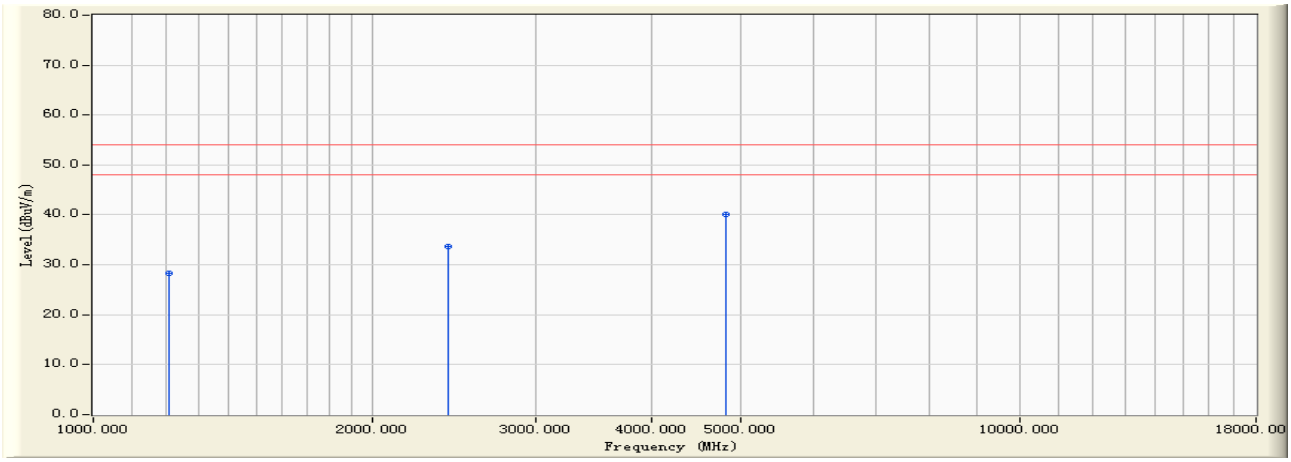


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.350	-5.883	61.390	55.506	-18.494	74.000	PEAK
2		2412.030	0.428	53.180	53.609	-20.391	74.000	PEAK
3	*	4825.130	7.350	52.180	59.530	-14.470	74.000	PEAK

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 : 2010/07/24 - 16:31**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 3:Transmit by 802.11n(20MHz) (An0 and An1) (2412MHz)**

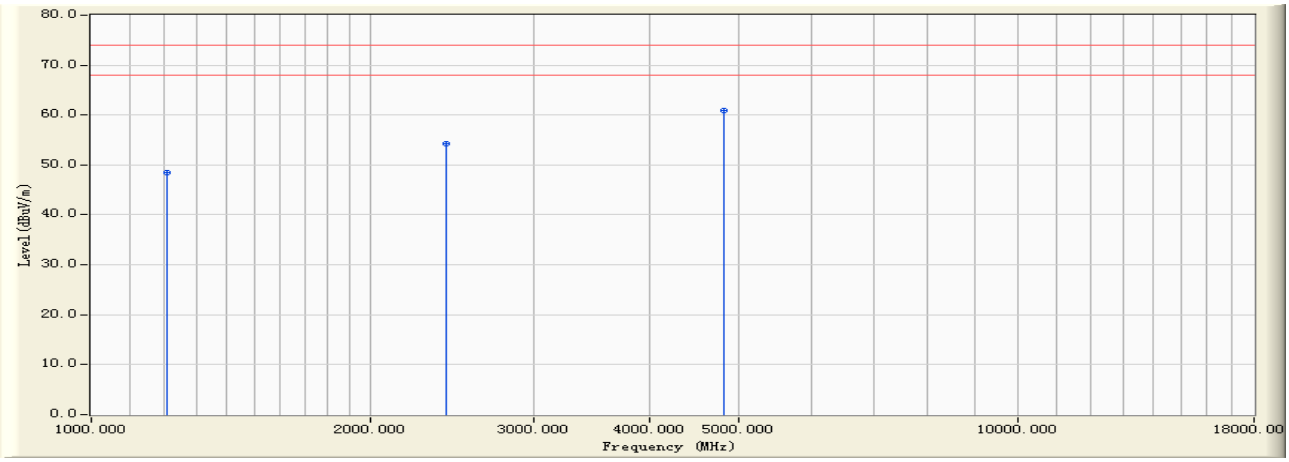


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.350	-5.883	34.260	28.376	-25.624	54.000	AVERAGE
2		2412.030	0.428	33.290	33.719	-20.281	54.000	AVERAGE
3	*	4825.130	7.350	32.660	40.010	-13.990	54.000	AVERAGE

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 : 2010/07/24 - 16:33**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 3:Transmit by 802.11n(20MHz) (An0 and An1) (2412MHz)**

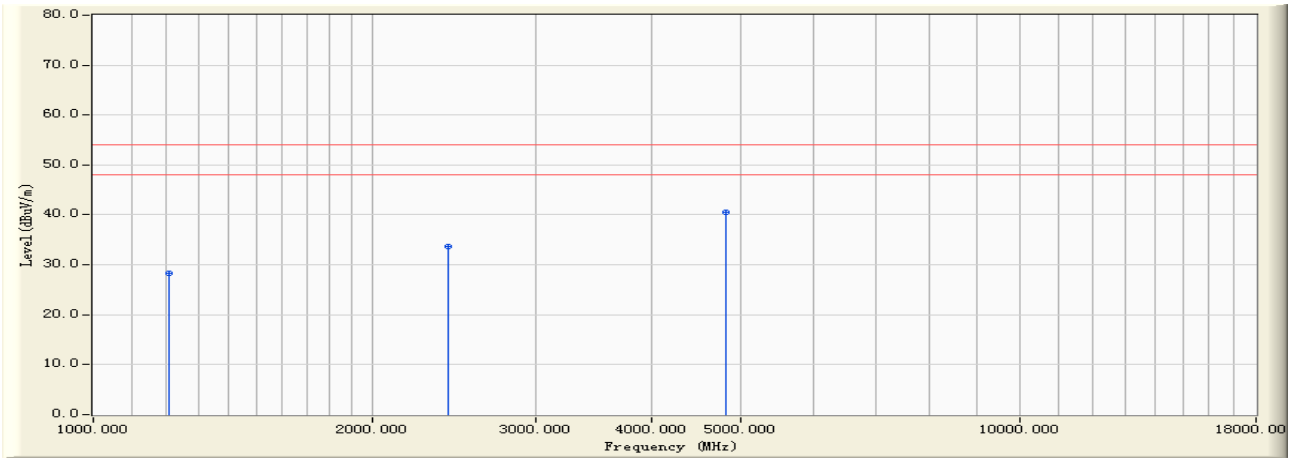


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.390	-5.883	54.260	48.377	-25.623	74.000	PEAK
2		2412.080	0.428	53.870	54.299	-19.701	74.000	PEAK
3	*	4825.360	7.350	53.480	60.831	-13.169	74.000	PEAK

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 : 2010/07/24 - 16:33**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 3:Transmit by 802.11n(20MHz) (An0 and An1) (2412MHz)**

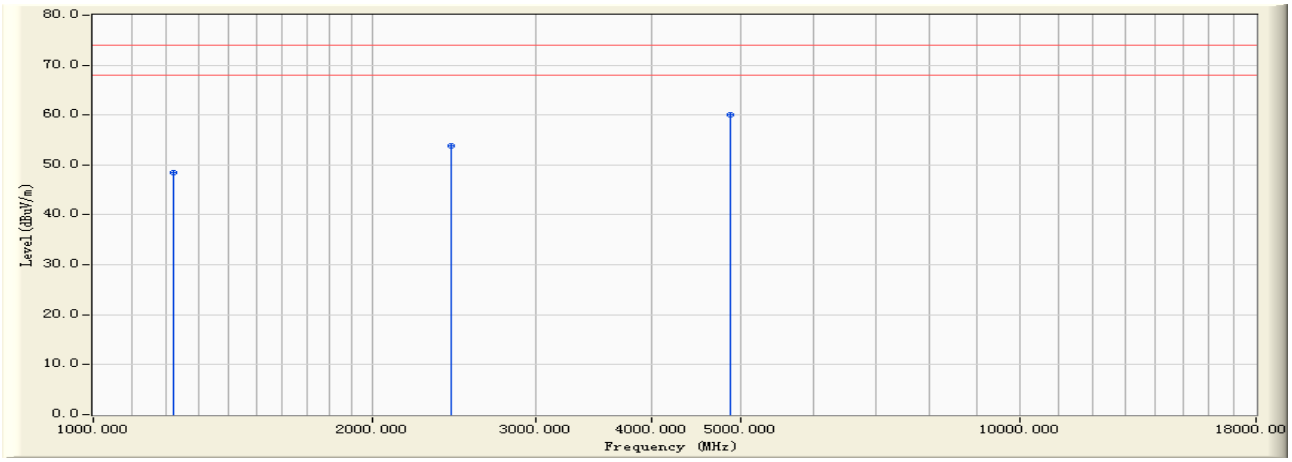


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.390	-5.883	34.260	28.377	-25.623	54.000	AVERAGE
2		2412.080	0.428	33.260	33.689	-20.311	54.000	AVERAGE
3	*	4825.360	7.350	33.290	40.641	-13.359	54.000	AVERAGE

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 : 2010/07/24 - 16:34**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 3:Transmit by 802.11n(20MHz) (An0 and An1) (2437MHz)**

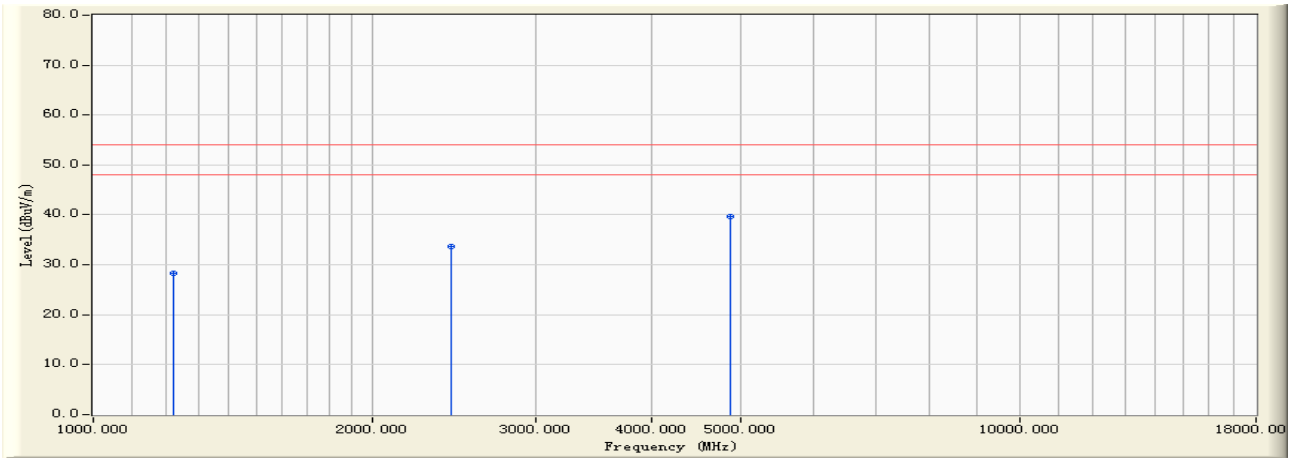


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.350	-5.759	54.310	48.552	-25.448	74.000	PEAK
2		2437.060	0.509	53.290	53.799	-20.201	74.000	PEAK
3	*	4875.310	7.459	52.680	60.139	-13.861	74.000	PEAK

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 : 2010/07/24 - 16:34**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 3:Transmit by 802.11n(20MHz) (An0 and An1) (2437MHz)**

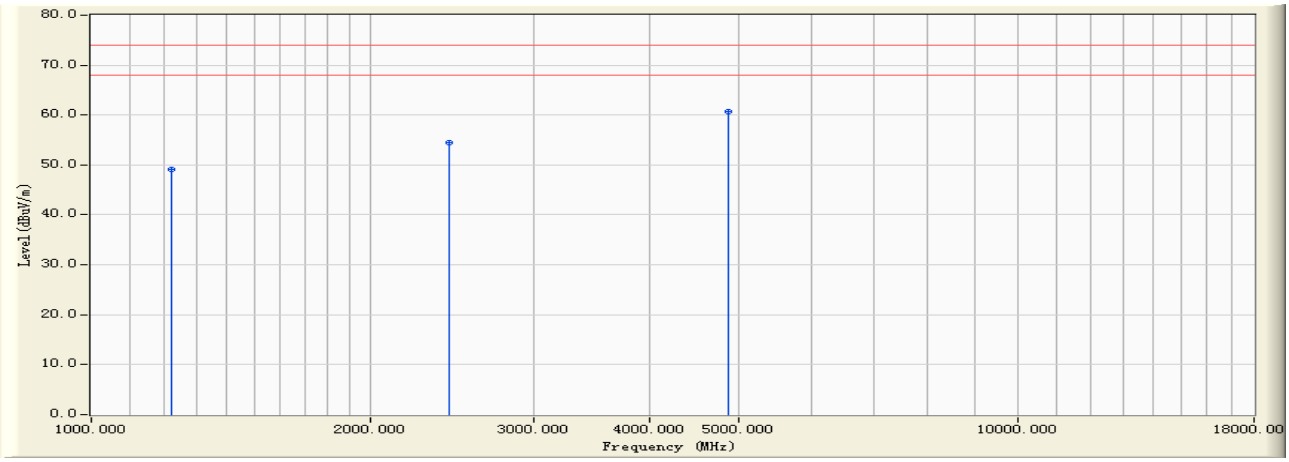


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.350	-5.759	34.160	28.402	-25.598	54.000	AVERAGE
2		2437.060	0.509	33.190	33.699	-20.301	54.000	AVERAGE
3	*	4875.310	7.459	32.180	39.639	-14.361	54.000	AVERAGE

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 : 2010/07/24 - 16:36**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 3:Transmit by 802.11n(20MHz) (An0 and An1) (2437MHz)**

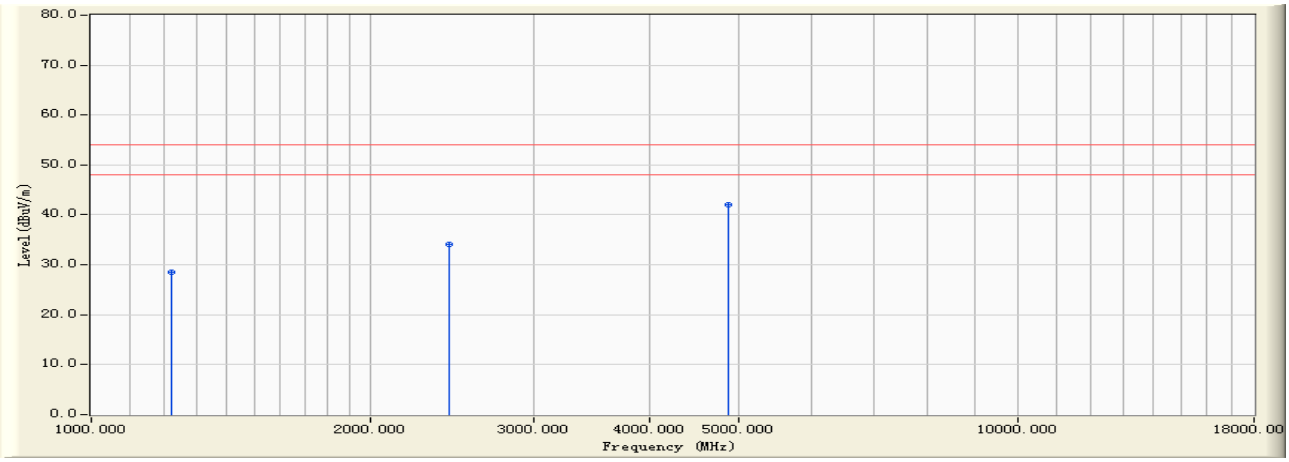


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.360	-5.759	54.870	49.112	-24.888	74.000	PEAK
2		2437.040	0.509	53.870	54.379	-19.621	74.000	PEAK
3	*	4875.960	7.461	53.180	60.641	-13.359	74.000	PEAK

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 : 2010/07/24 - 16:36**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 3:Transmit by 802.11n(20MHz) (An0 and An1) (2437MHz)**

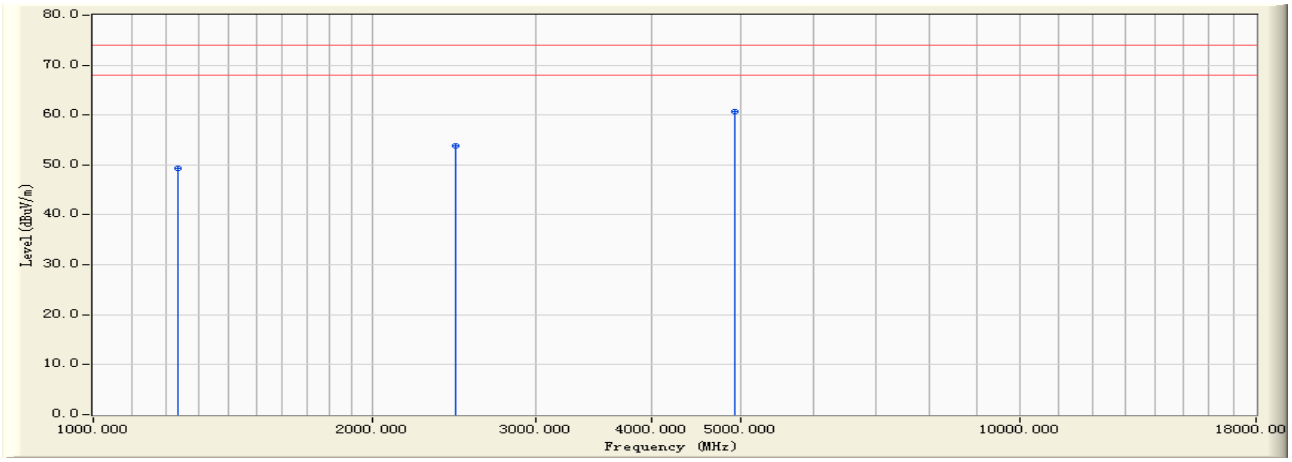


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.360	-5.759	34.250	28.492	-25.508	54.000	AVERAGE
2		2437.040	0.509	33.640	34.149	-19.851	54.000	AVERAGE
3	*	4875.960	7.461	34.680	42.141	-11.859	54.000	AVERAGE

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 : 2010/07/24 - 16:39**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 3:Transmit by 802.11n(20MHz) (An0 and An1) (2462MHz)**

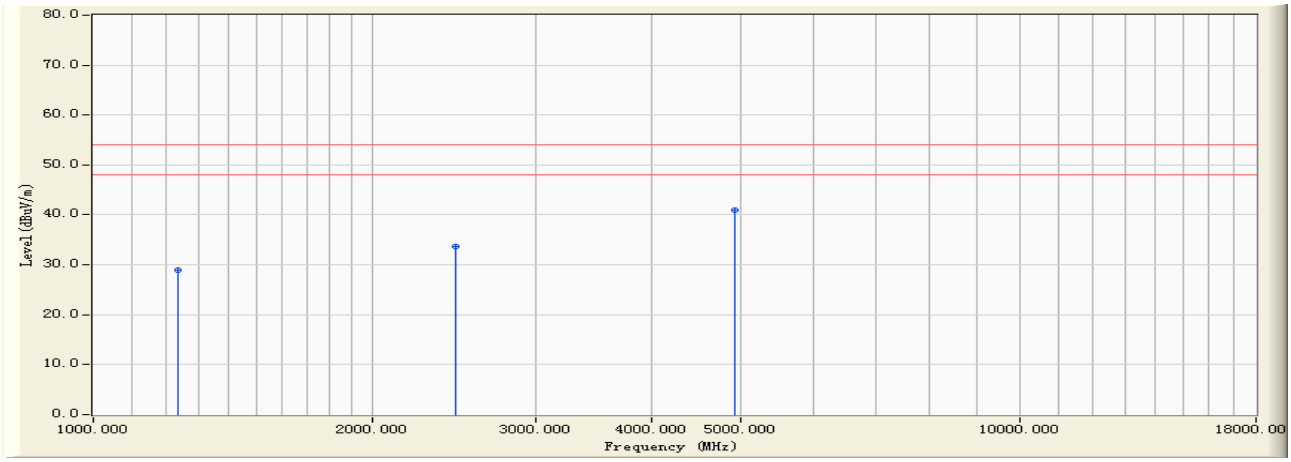


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1232.460	-5.613	54.980	49.366	-24.634	74.000	PEAK
2		2462.060	0.600	53.190	53.790	-20.210	74.000	PEAK
3	*	4925.370	7.567	53.160	60.727	-13.273	74.000	PEAK

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 : 2010/07/24 - 16:39**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 3:Transmit by 802.11n(20MHz) (An0 and An1) (2462MHz)**

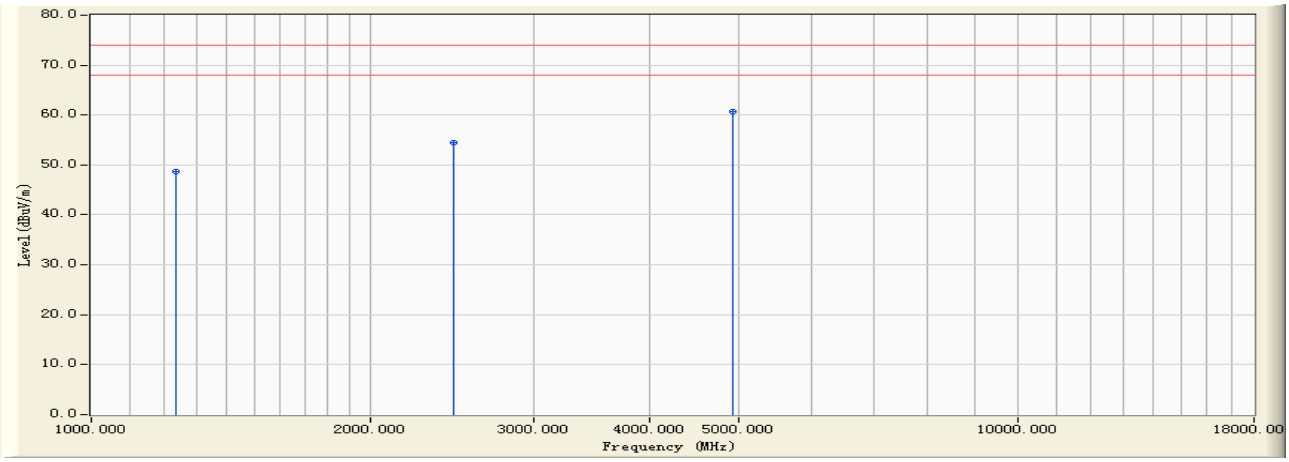


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1232.460	-5.613	34.620	29.006	-24.994	54.000	AVERAGE
2		2462.060	0.600	33.160	33.760	-20.240	54.000	AVERAGE
3	*	4925.370	7.567	33.490	41.057	-12.943	54.000	AVERAGE

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 : 2010/07/24 - 16:40**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 3:Transmit by 802.11n(20MHz) (An0 and An1) (2462MHz)**

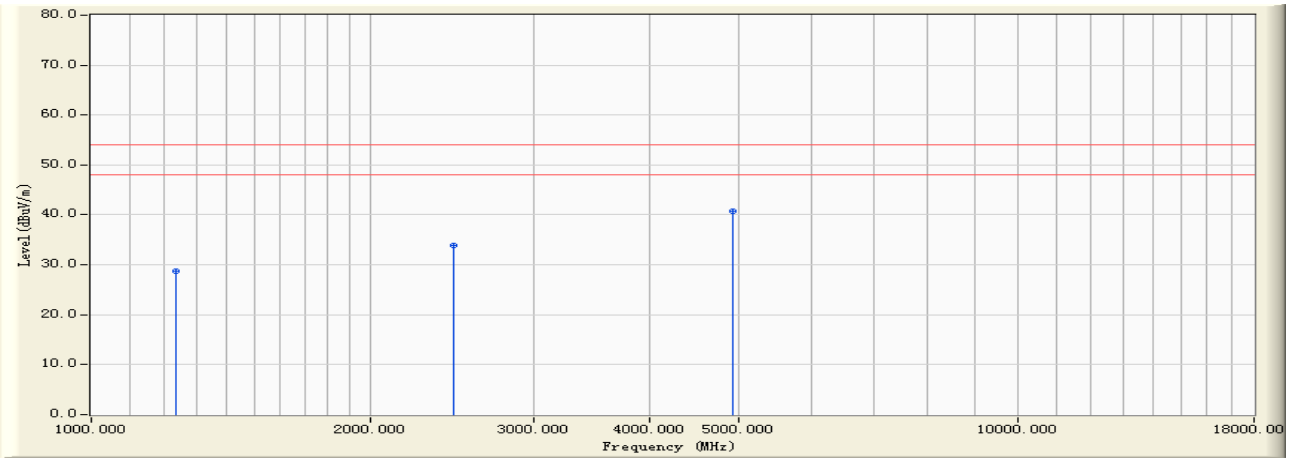


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1232.640	-5.612	54.360	48.748	-25.252	74.000	PEAK
2		2462.010	0.600	53.890	54.490	-19.510	74.000	PEAK
3	*	4926.370	7.570	53.180	60.750	-13.250	74.000	PEAK

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 : 2010/07/24 - 16:40**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 3:Transmit by 802.11n(20MHz) (An0 and An1) (2462MHz)**

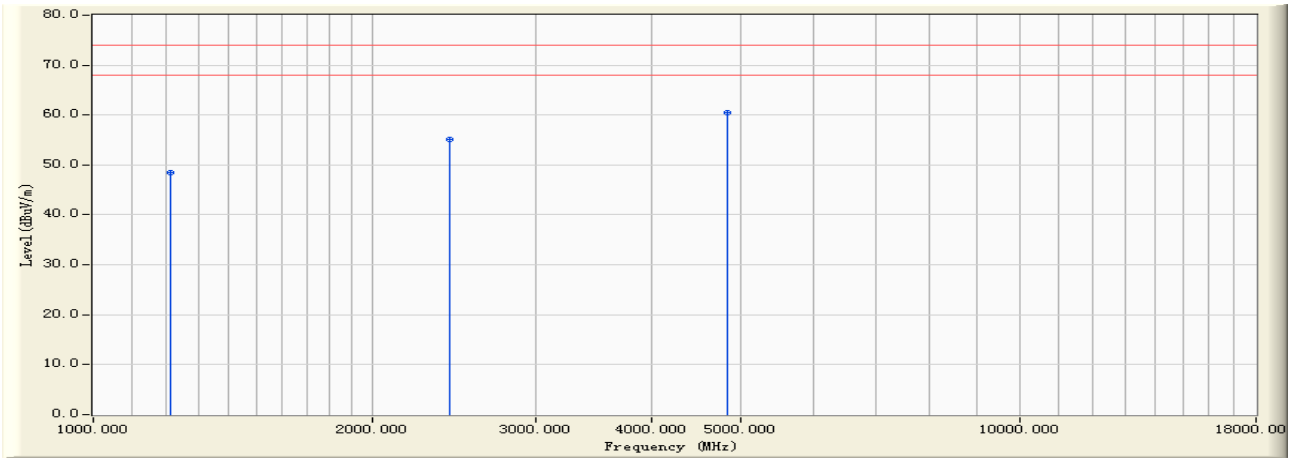


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1232.640	-5.612	34.260	28.648	-25.352	54.000	AVERAGE
2		2462.010	0.600	33.260	33.860	-20.140	54.000	AVERAGE
3	*	4926.370	7.570	33.280	40.850	-13.150	54.000	AVERAGE

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 : 2010/07/24 - 16:42**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 4:Transmit by 802.11n(40MHz) (An0 and An1) (2422MHz)**

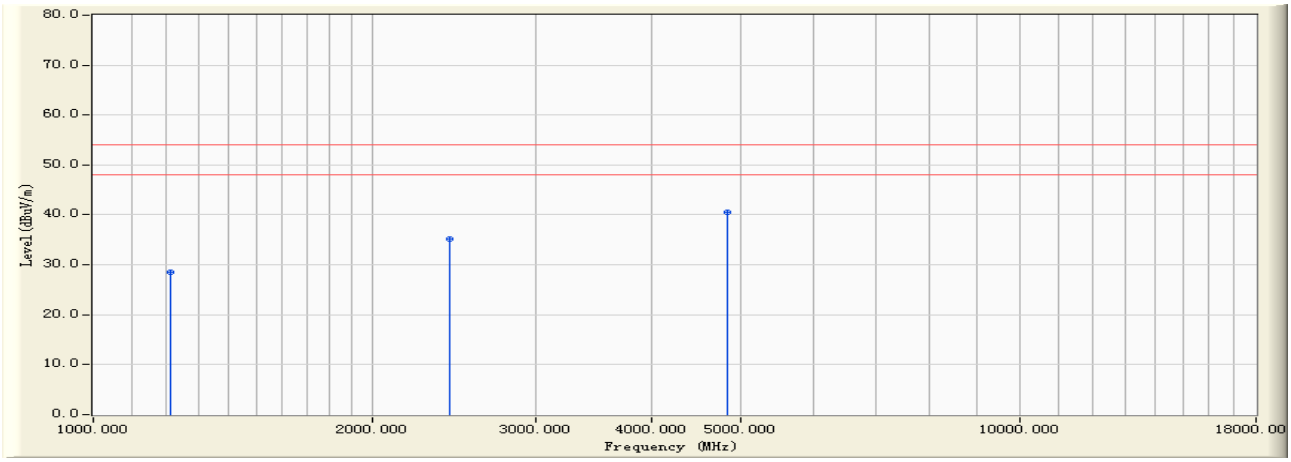


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1212.320	-5.832	54.260	48.428	-25.572	74.000	PEAK
2		2422.035	0.463	54.690	55.153	-18.847	74.000	PEAK
3	*	4845.310	7.392	53.160	60.552	-13.448	74.000	PEAK

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 : 2010/07/24 - 16:42**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 4:Transmit by 802.11n(40MHz) (An0 and An1) (2422MHz)**

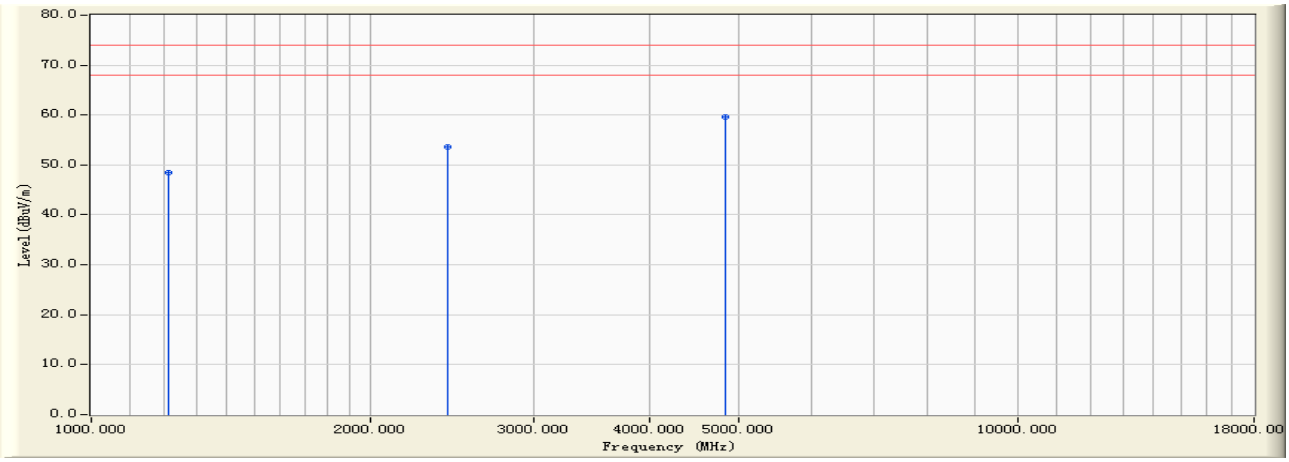


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1212.320	-5.832	34.260	28.428	-25.572	54.000	AVERAGE
2		2422.035	0.463	34.620	35.083	-18.917	54.000	AVERAGE
3	*	4845.310	7.392	33.160	40.552	-13.448	54.000	AVERAGE

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 : 2010/07/24 - 16:44**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 4:Transmit by 802.11n(40MHz) (An0 and An1) (2422MHz)**

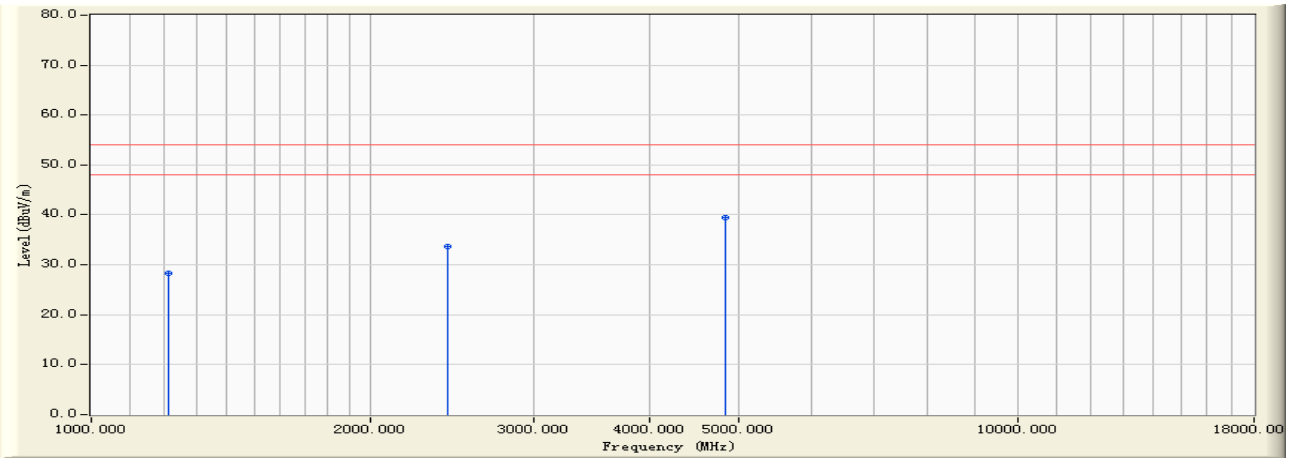


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1212.350	-5.831	54.310	48.478	-25.522	74.000	PEAK
2		2422.060	0.462	53.160	53.623	-20.377	74.000	PEAK
3	*	4845.360	7.392	52.190	59.582	-14.418	74.000	PEAK

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 : 2010/07/24- 16:44**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 4:Transmit by 802.11n(40MHz) (An0 and An1) (2422MHz)**

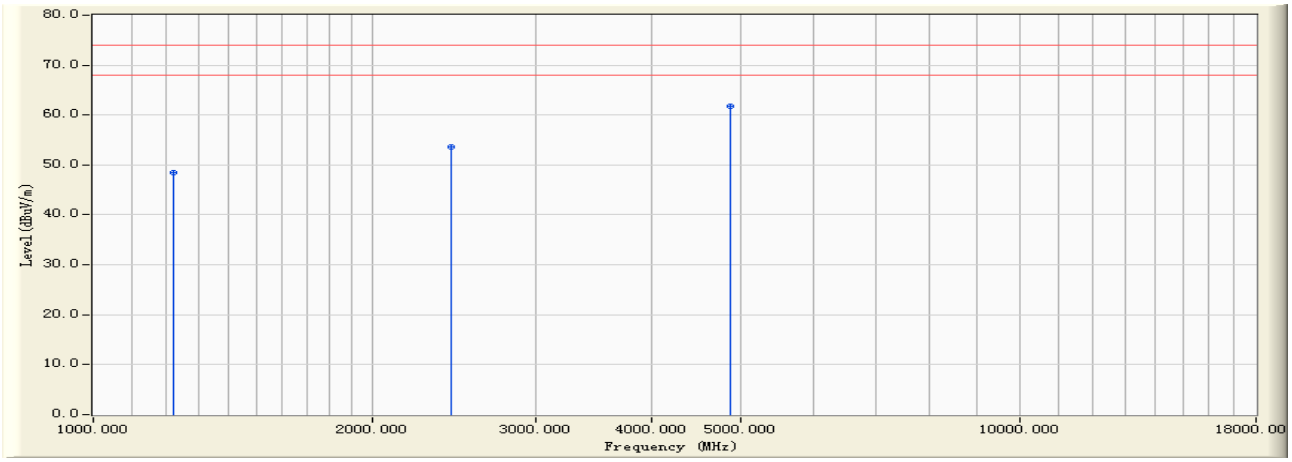


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1212.350	-5.831	34.160	28.328	-25.672	54.000	AVERAGE
2		2422.060	0.462	33.160	33.623	-20.377	54.000	AVERAGE
3	*	4845.360	7.392	32.160	39.552	-14.448	54.000	AVERAGE

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 : 2010/07/24 - 16:47**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 4:Transmit by 802.11n(40MHz) (An0 and An1) (2437MHz)**

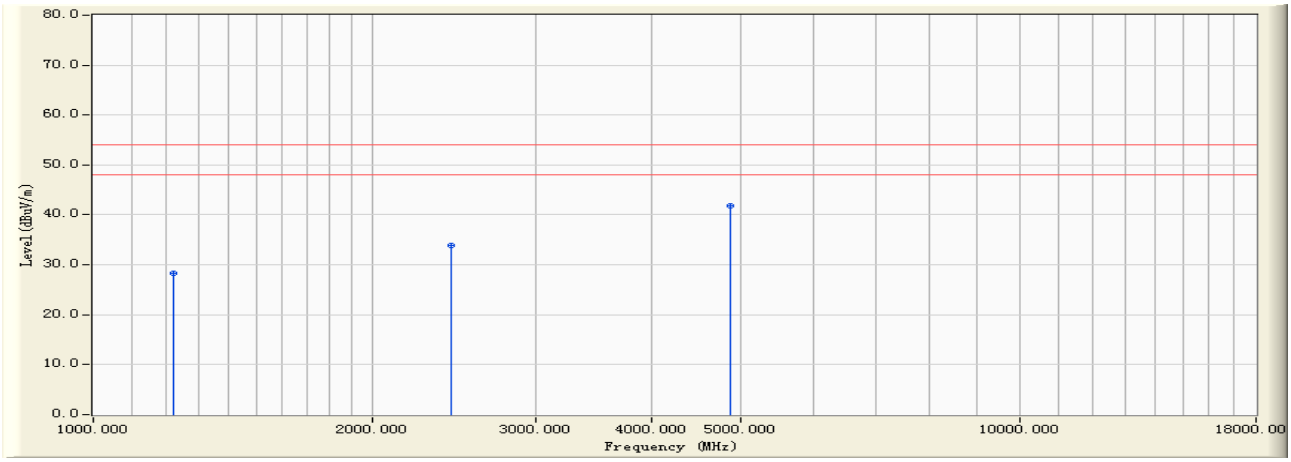


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.360	-5.759	54.130	48.372	-25.628	74.000	PEAK
2		2437.060	0.509	53.160	53.669	-20.331	74.000	PEAK
3	*	4875.310	7.459	54.360	61.819	-12.181	74.000	PEAK

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 : 2010/07/24 - 16:47**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 4:Transmit by 802.11n(40MHz) (An0 and An1) (2437MHz)**

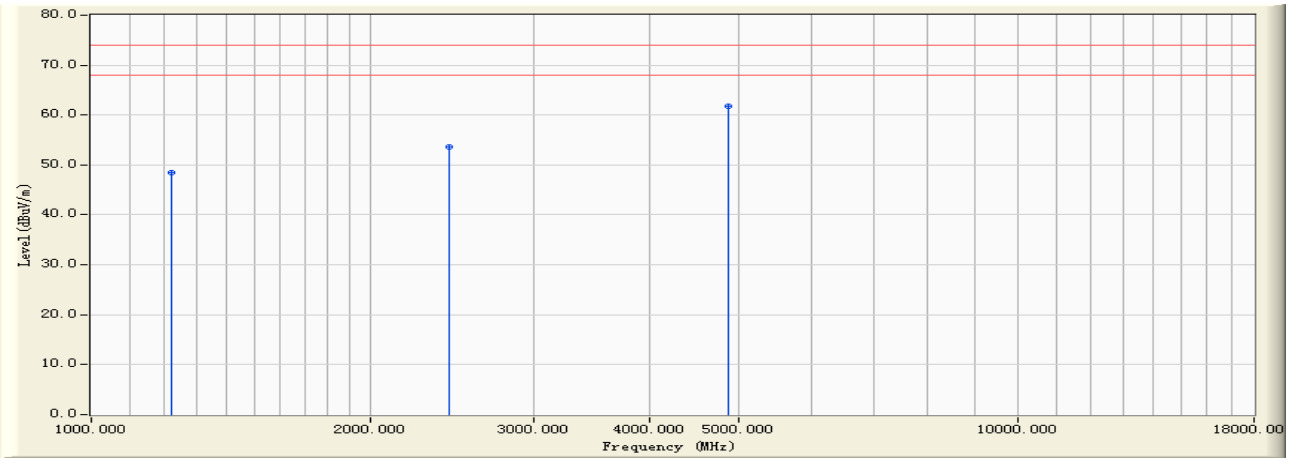


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.360	-5.759	34.160	28.402	-25.598	54.000	AVERAGE
2		2437.060	0.509	33.290	33.799	-20.201	54.000	AVERAGE
3	*	4875.310	7.459	34.260	41.719	-12.281	54.000	AVERAGE

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 : 2010/07/24 - 16:48**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 4:Transmit by 802.11n(40MHz) (An0 and An1) (2437MHz)**

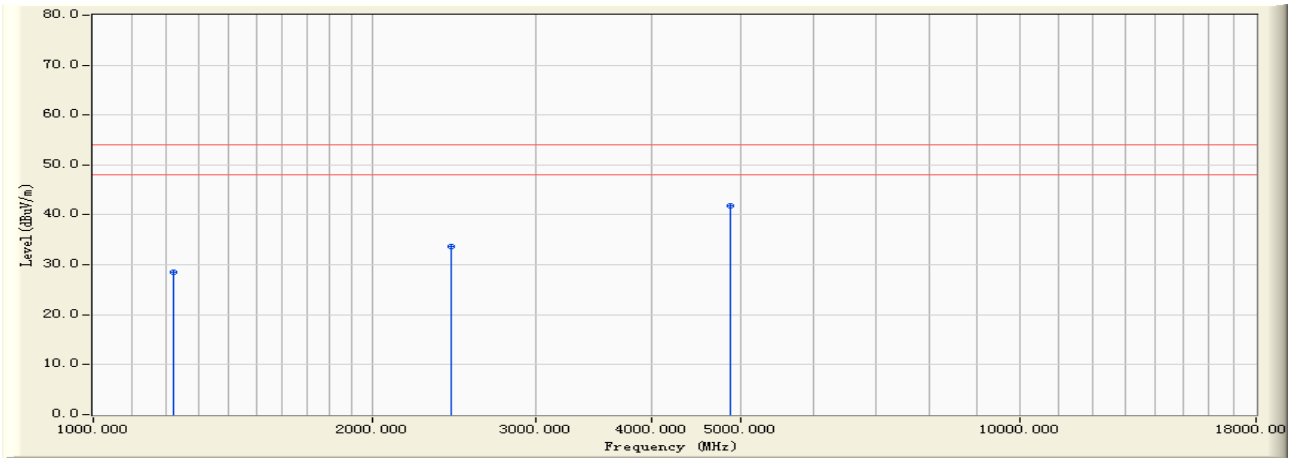


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.350	-5.759	54.310	48.552	-25.448	74.000	PEAK
2		2437.160	0.510	53.190	53.700	-20.300	74.000	PEAK
3	*	4875.340	7.459	54.360	61.819	-12.181	74.000	PEAK

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 : 2010/07/24 - 16:48**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 4:Transmit by 802.11n(40MHz) (An0 and An1) (2437MHz)**

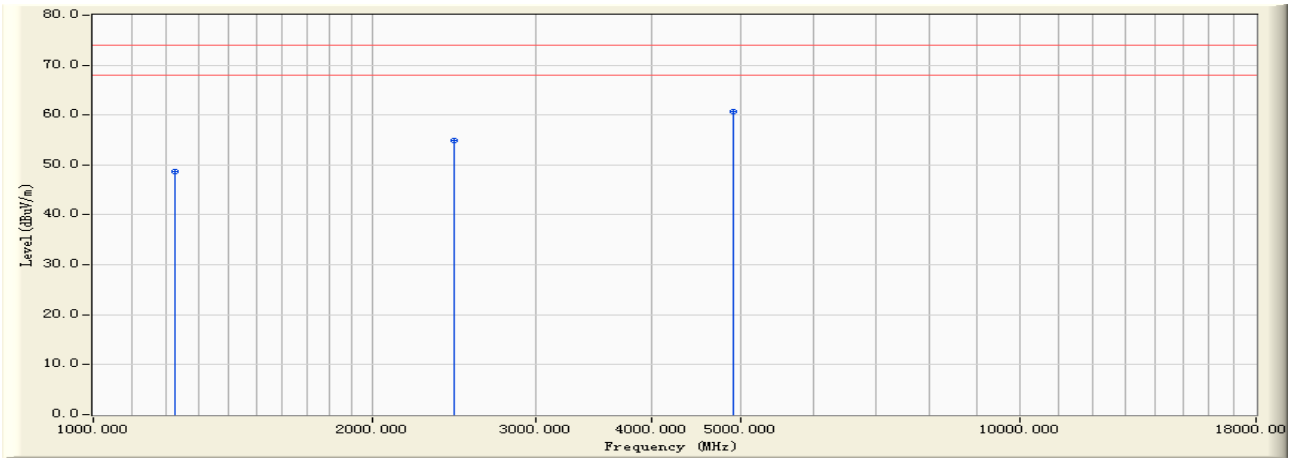


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.350	-5.759	34.260	28.502	-25.498	54.000	AVERAGE
2		2437.160	0.510	33.160	33.670	-20.330	54.000	AVERAGE
3	*	4875.340	7.459	34.260	41.719	-12.281	54.000	AVERAGE

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 : 2010/07/24 - 16:50**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 4:Transmit by 802.11n(40MHz) (An0 and An1) (2452MHz)**

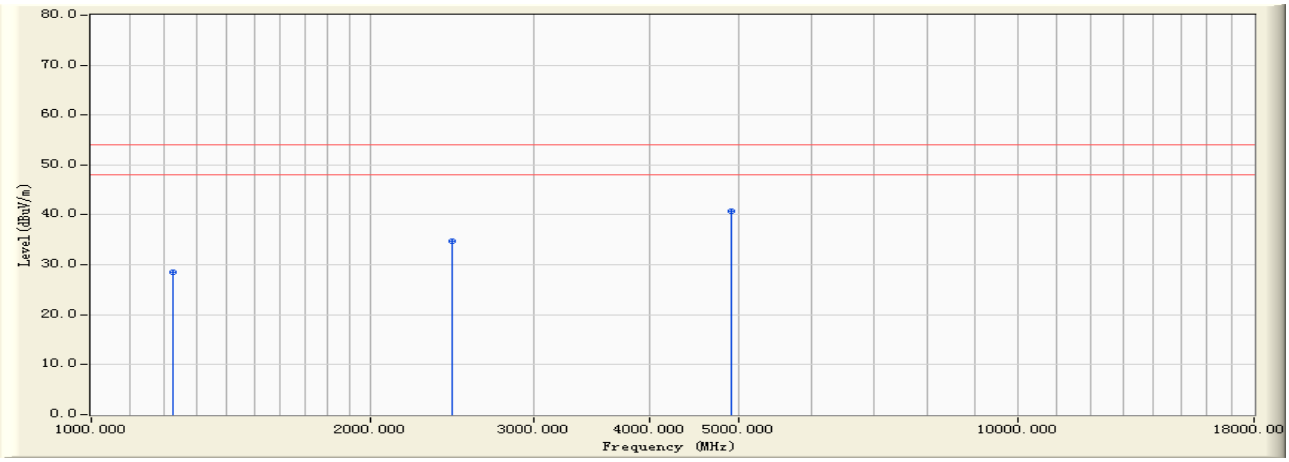


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1227.350	-5.671	54.310	48.639	-25.361	74.000	PEAK
2		2452.360	0.560	54.340	54.901	-19.099	74.000	PEAK
3	*	4905.160	7.526	53.160	60.686	-13.314	74.000	PEAK

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 : 2010/07/24 - 16:50**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 4:Transmit by 802.11n(40MHz) (An0 and An1) (2452MHz)**

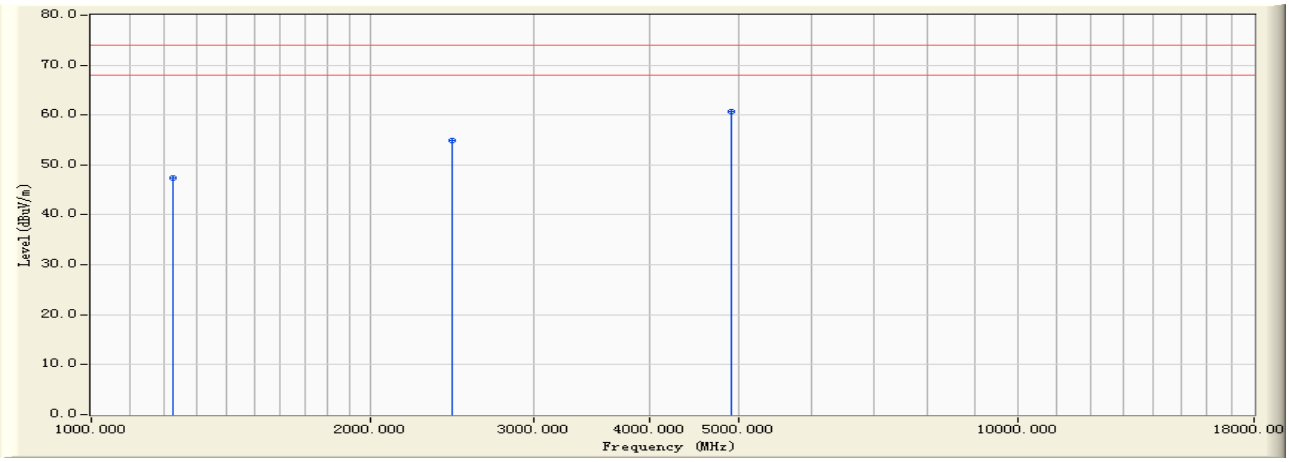


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1227.350	-5.671	34.160	28.489	-25.511	54.000	AVERAGE
2		2452.360	0.560	34.160	34.721	-19.279	54.000	AVERAGE
3	*	4905.320	7.526	33.290	40.817	-13.183	54.000	AVERAGE

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 : 2010/07/24 - 16:52**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 4:Transmit by 802.11n(40MHz) (An0 and An1) (2452MHz)**

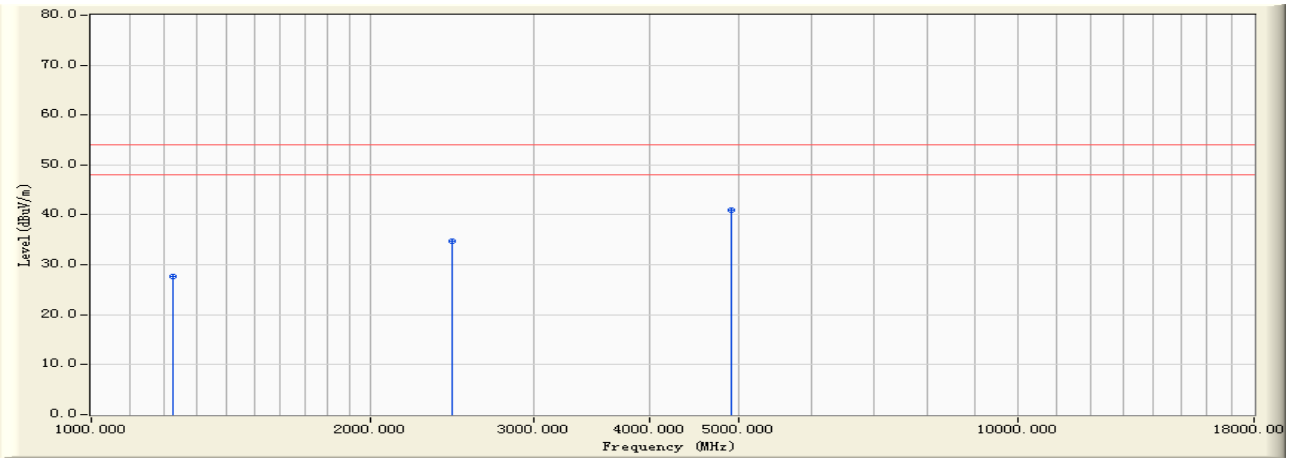


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1227.340	-5.671	53.160	47.489	-26.511	74.000	PEAK
2		2452.040	0.560	54.360	54.920	-19.080	74.000	PEAK
3	*	4905.340	7.527	53.160	60.687	-13.313	74.000	PEAK

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 : 2010/07/24 - 16:52**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 4:Transmit by 802.11n(40MHz) (An0 and An1) (2452MHz)**

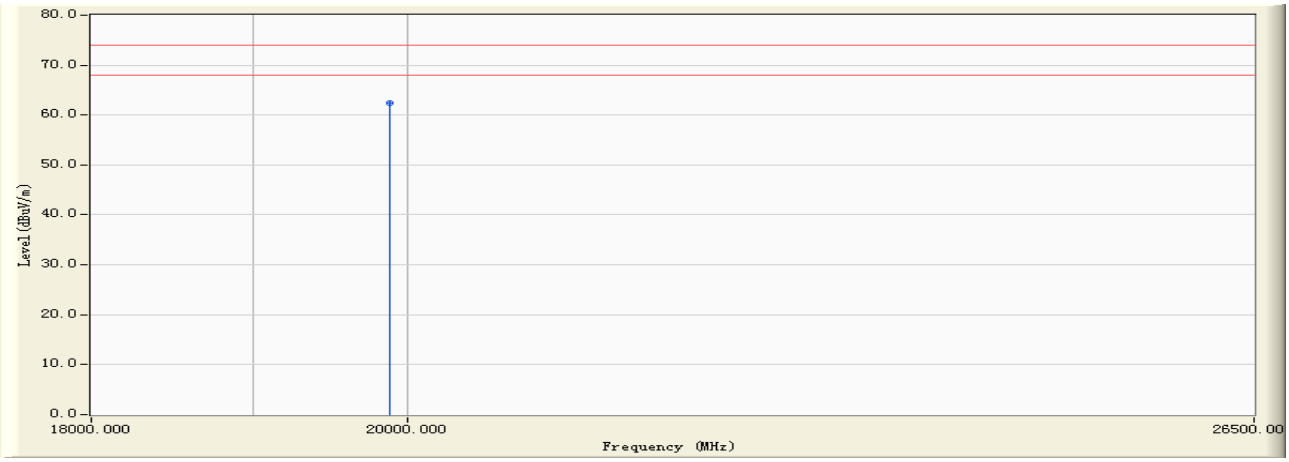


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1227.340	-5.671	33.260	27.589	-26.411	54.000	AVERAGE
2		2452.040	0.560	34.160	34.720	-19.280	54.000	AVERAGE
3	*	4905.340	7.527	33.490	41.017	-12.983	54.000	AVERAGE

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 : 2010/07/29 - 11:12**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2412MHz)**

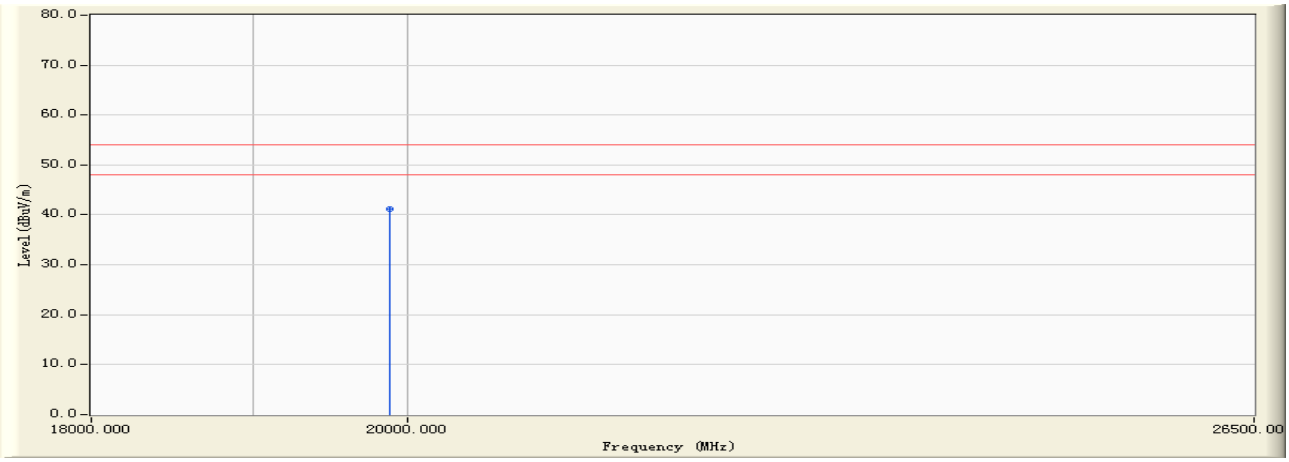


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	19875.200	4.709	57.620	62.328	-11.672	74.000	PEAK

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 : 2010/07/29 - 11:12**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2412MHz)**

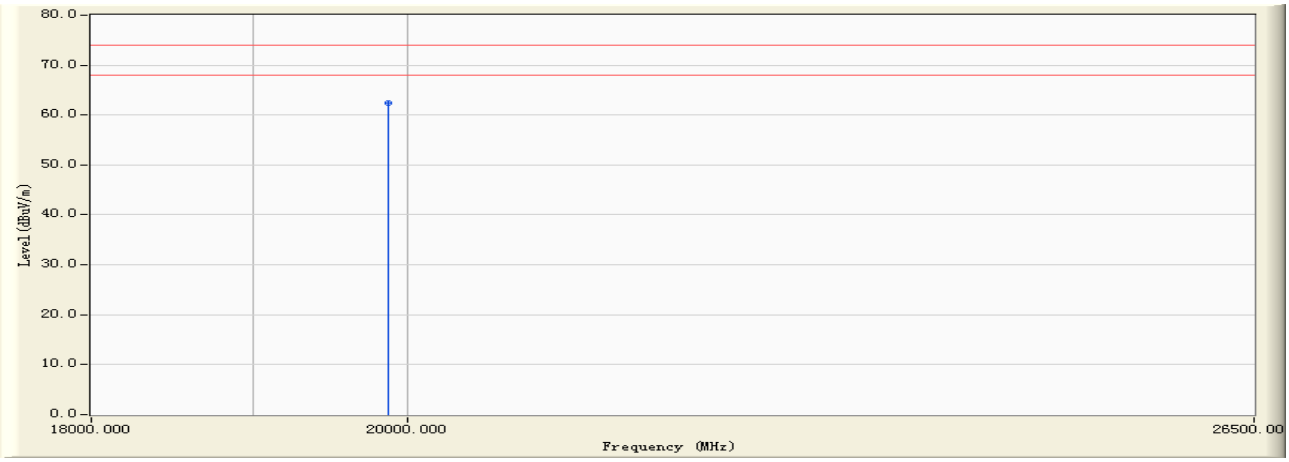


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	19875.200	4.709	36.540	41.248	-12.752	54.000	AVERAGE

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 : 2010/07/29 - 11:13**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2412MHz)**

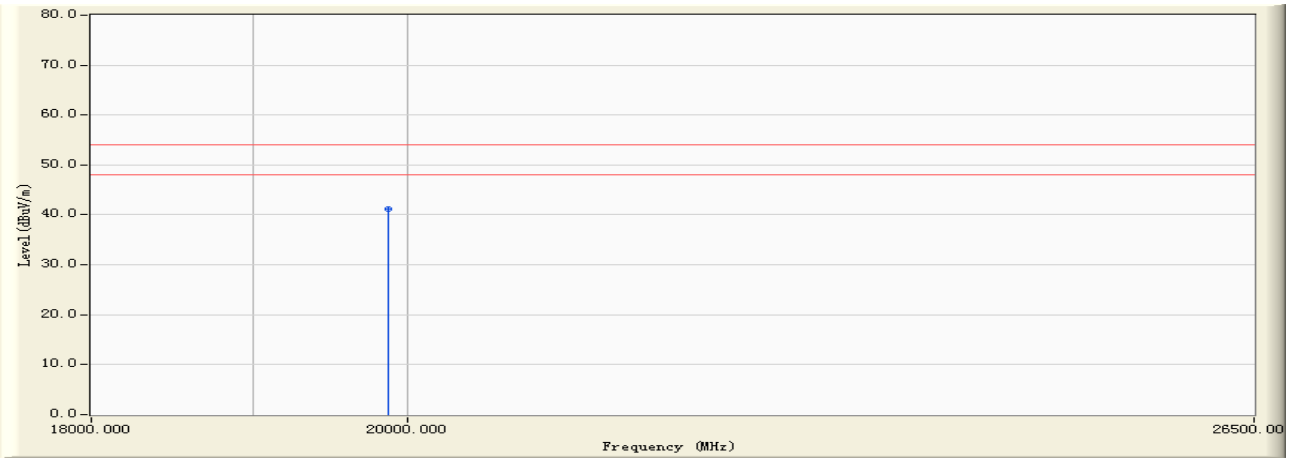


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	19865.200	4.713	57.620	62.333	-11.667	74.000	PEAK

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 : 2010/07/29 - 11:13**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2412MHz)**

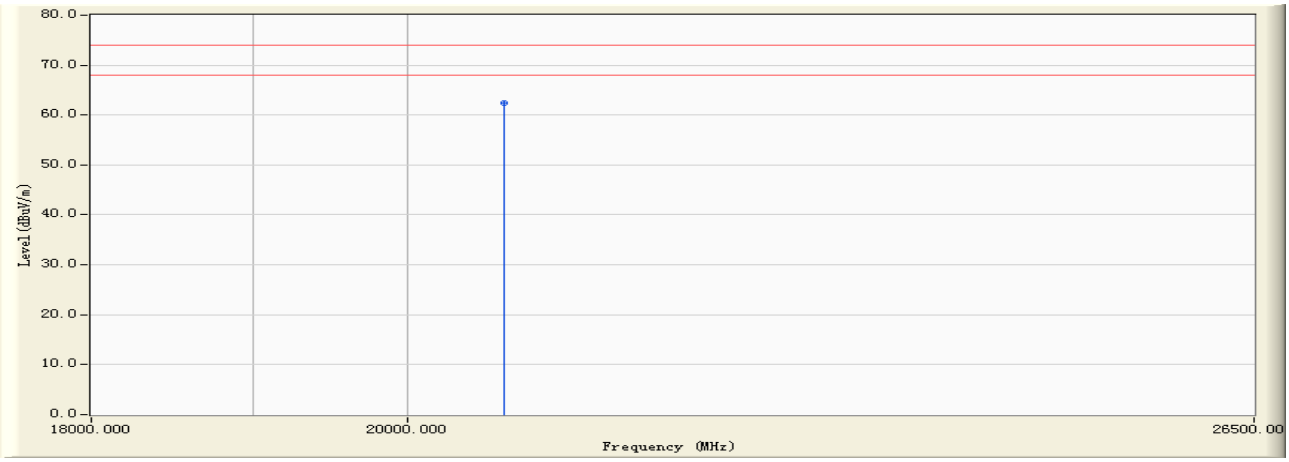


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	19865.200	4.713	36.520	41.233	-12.767	54.000	AVERAGE

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 : 2010/07/29 - 11:14**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2437MHz)**

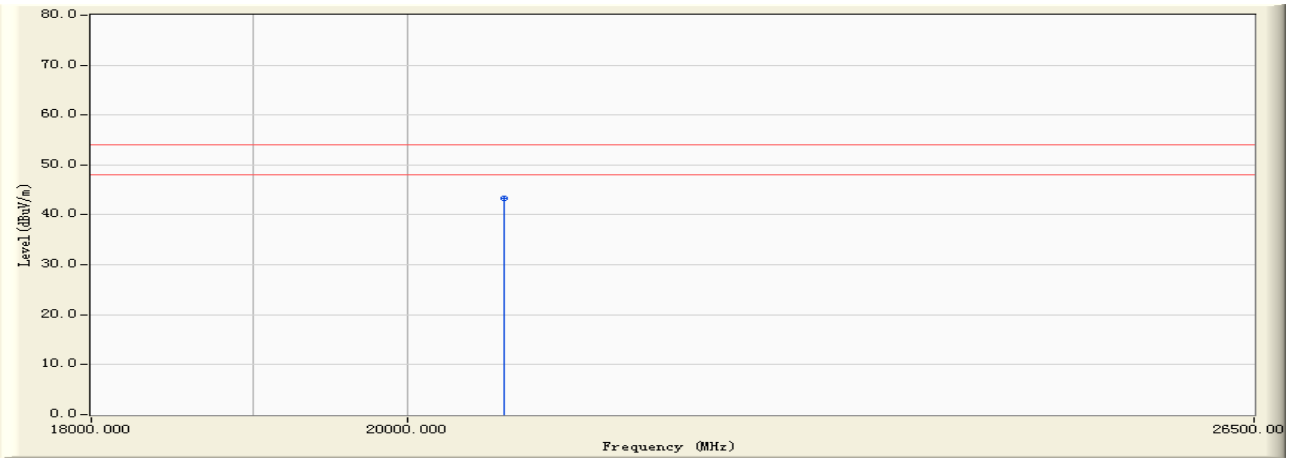


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20653.100	4.793	57.630	62.423	-11.577	74.000	PEAK

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 : 2010/07/29 - 11:14**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2437MHz)**

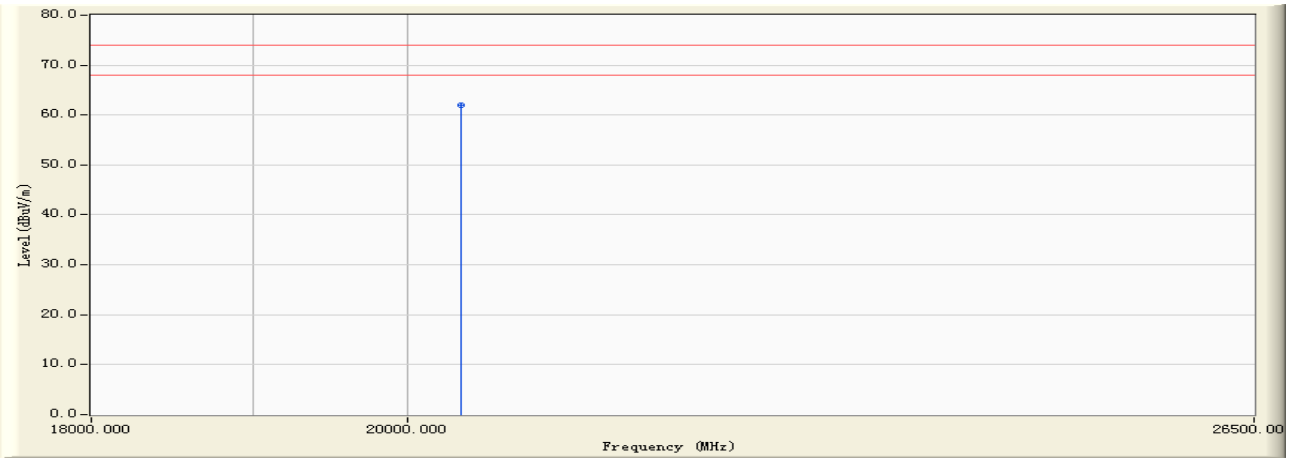


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20653.100	4.793	38.520	43.313	-10.687	54.000	AVERAGE

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 : 2010/07/29 - 11:15**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2437MHz)**

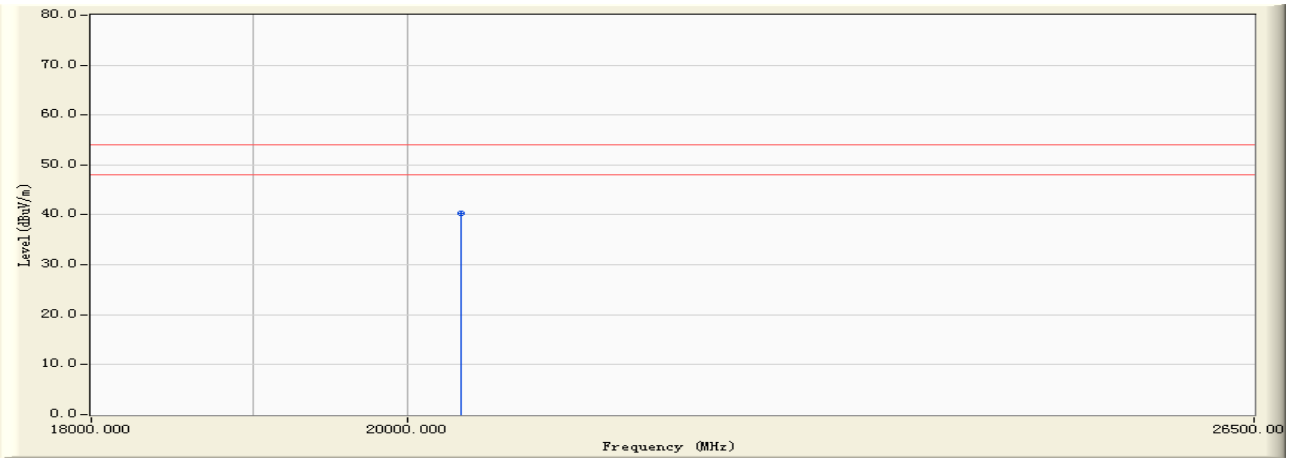


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20352.900	4.711	57.340	62.052	-11.948	74.000	PEAK

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 : 2010/07/29 - 11:15**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2437MHz)**

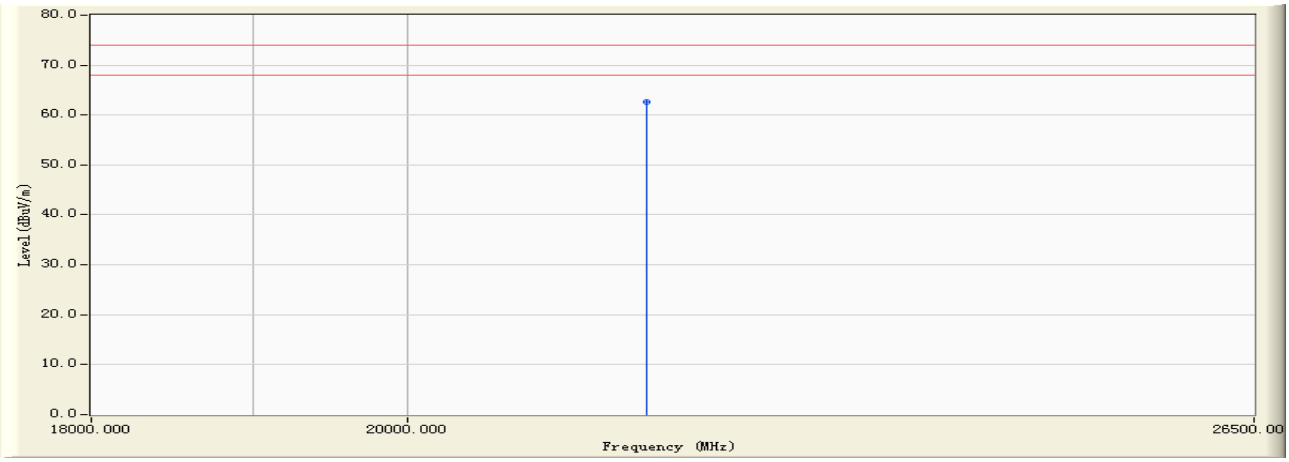


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20352.900	4.711	35.620	40.332	-13.668	54.000	AVERAGE

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 : 2010/07/29 - 11:17**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2462MHz)**

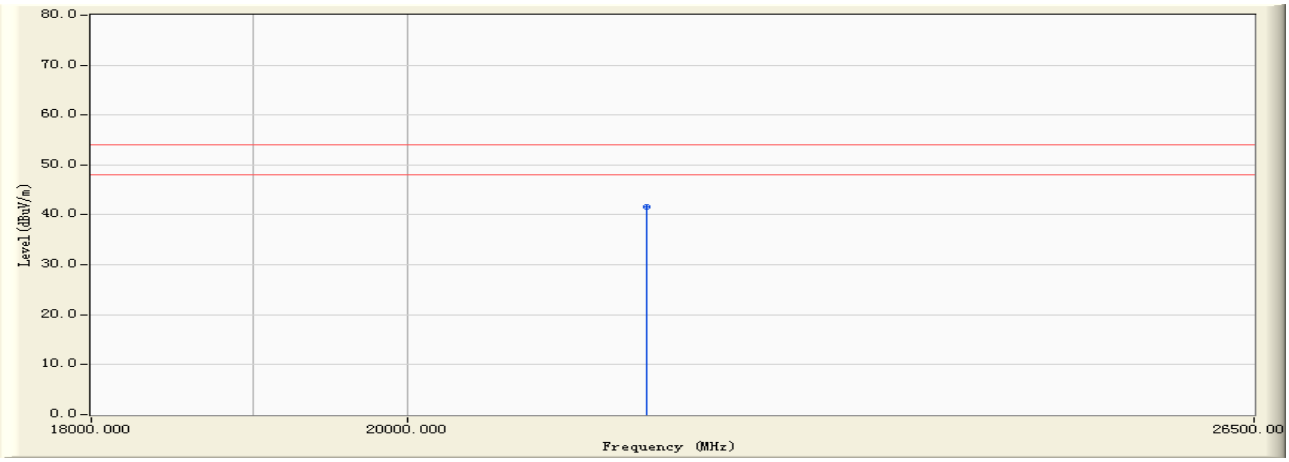


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21656.200	5.038	57.620	62.659	-11.341	74.000	PEAK

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 : 2010/07/29 - 11:17**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2462MHz)**

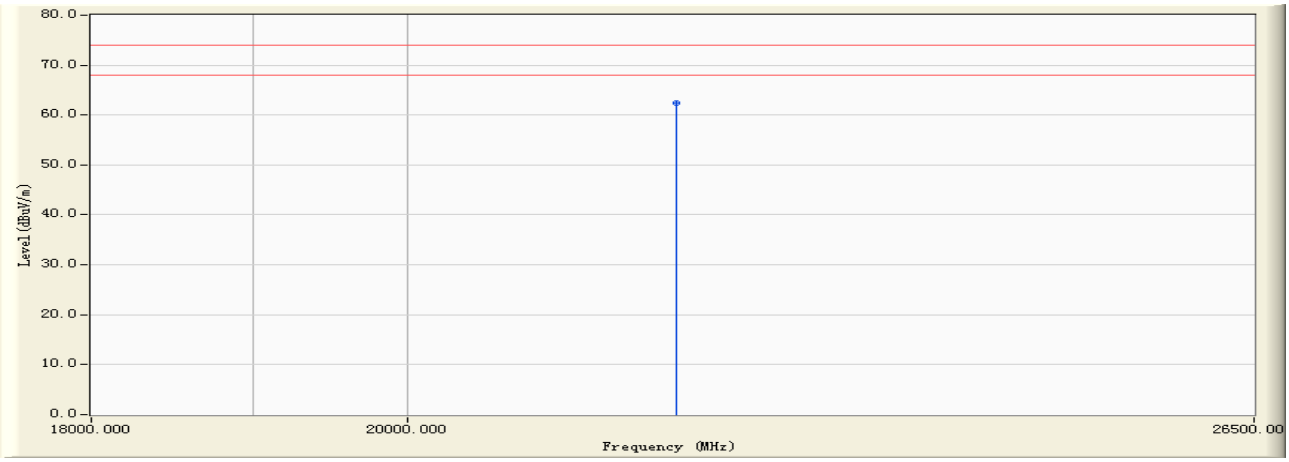


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21656.200	5.038	36.520	41.559	-12.441	54.000	AVERAGE

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 : 2010/07/29 - 11:18**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2462MHz)**

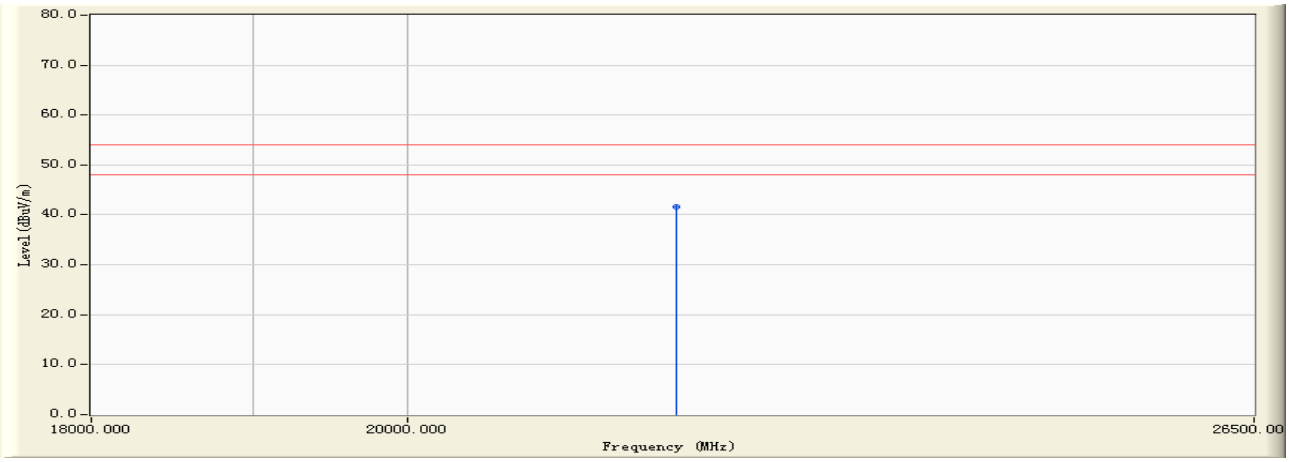


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21863.500	5.158	57.240	62.398	-11.602	74.000	PEAK

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 : 2010/07/29 - 11:18**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2462MHz)**

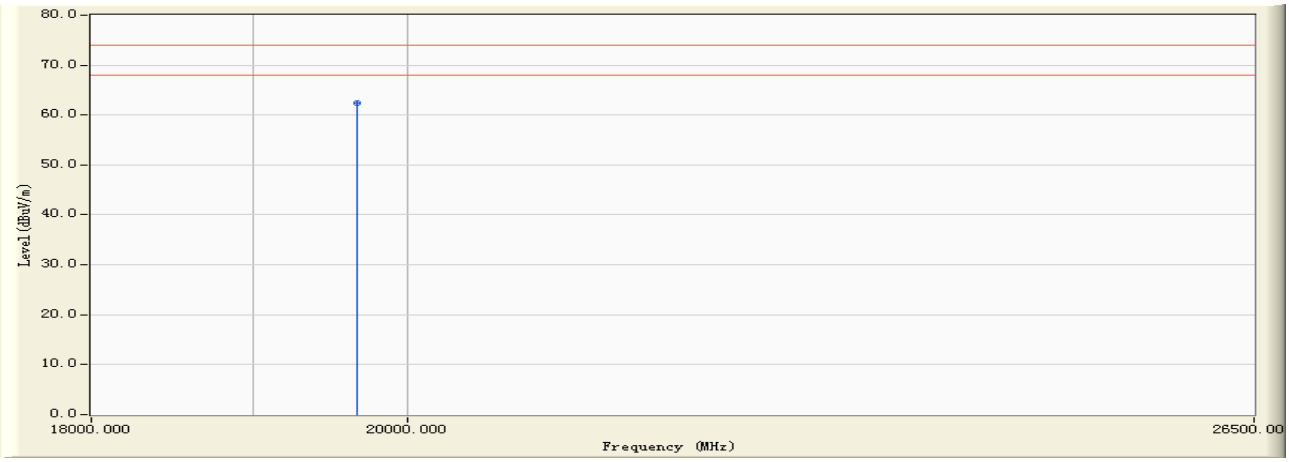


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21863.500	5.158	36.540	41.698	-12.302	54.000	AVERAGE

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 : 2010/07/29 - 11:21**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2412MHz)**

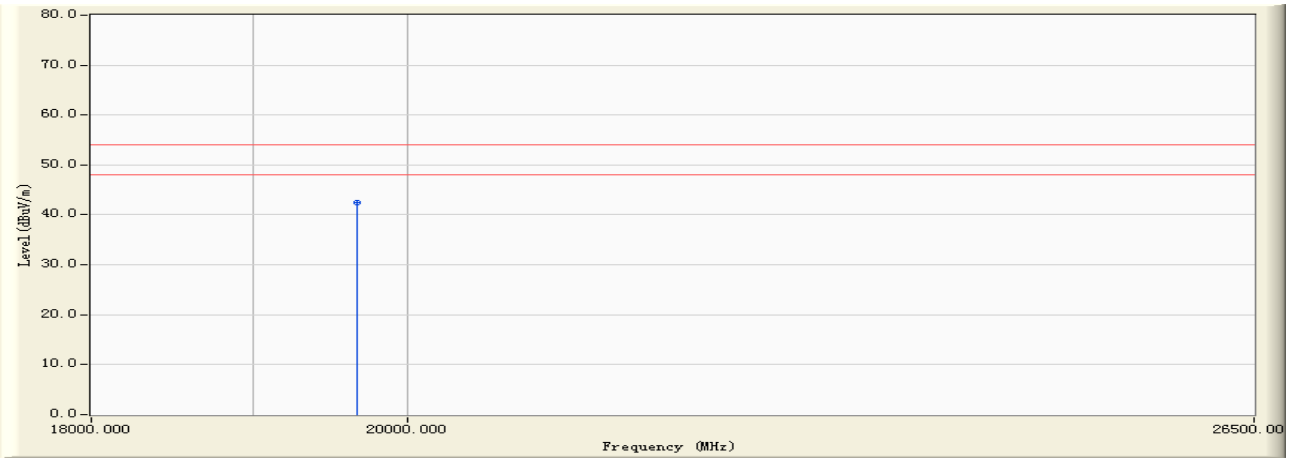


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	19659.200	4.846	57.630	62.477	-11.523	74.000	PEAK

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 : 2010/07/29 - 11:21**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2412MHz)**

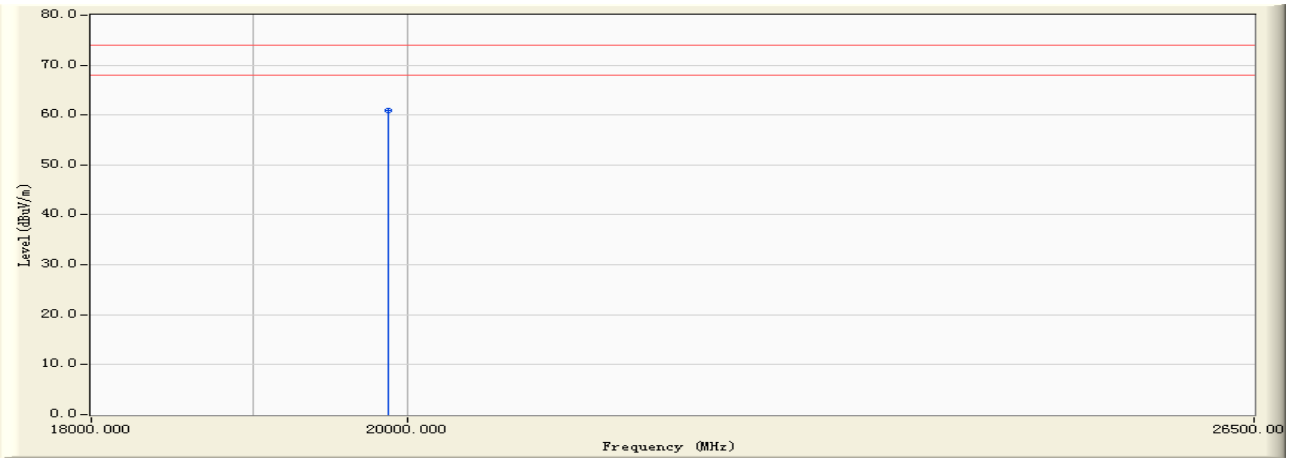


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	19659.200	4.846	37.620	42.467	-11.533	54.000	AVERAGE

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 : 2010/07/29 - 11:22**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2412MHz)**

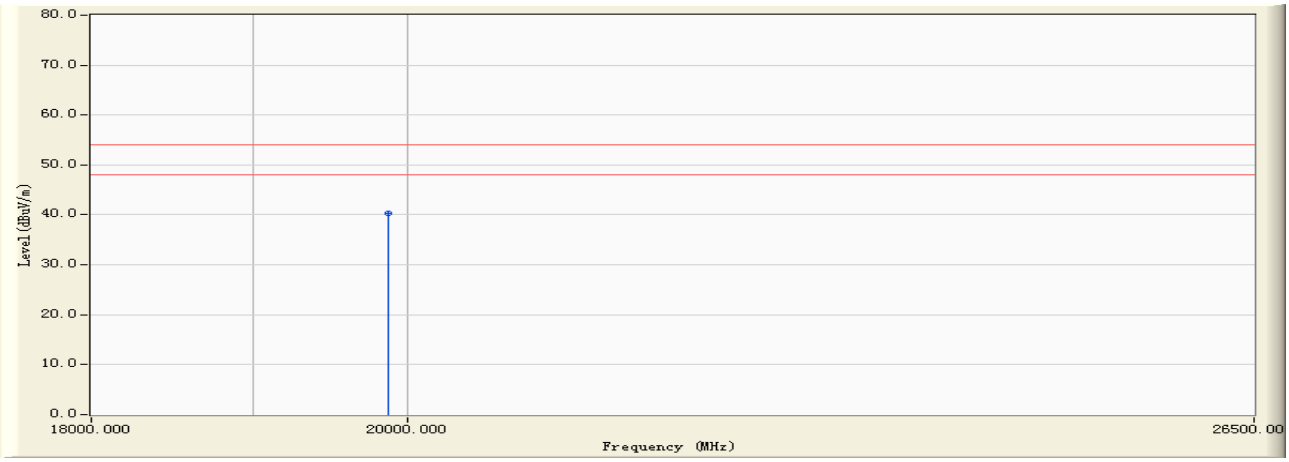


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	19873.500	4.708	56.250	60.958	-13.042	74.000	PEAK

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 : 2010/07/29 - 11:22**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2412MHz)**

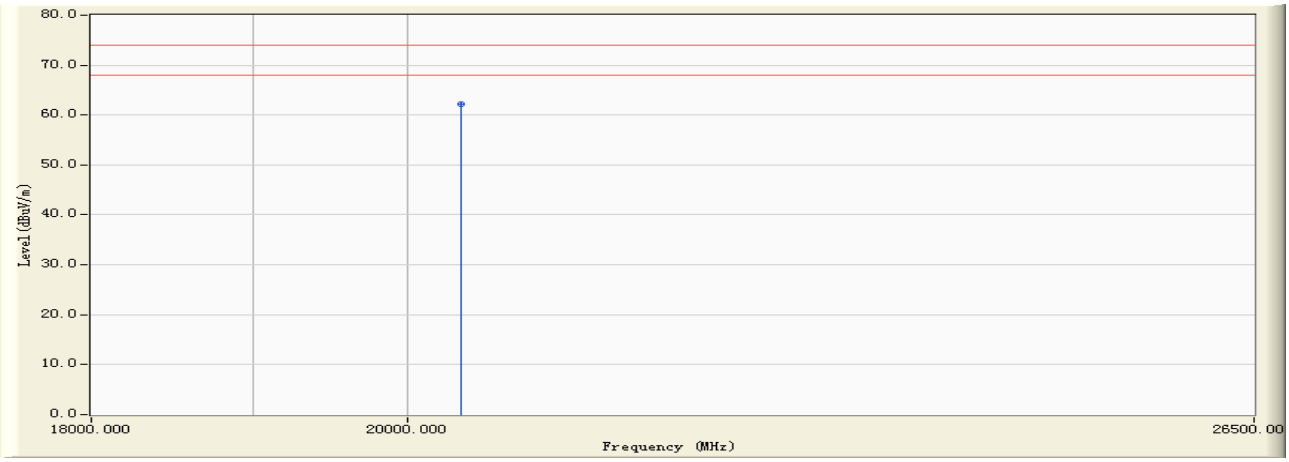


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	19873.500	4.708	35.520	40.228	-13.772	54.000	AVERAGE

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 : 2010/07/29 - 11:22**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2437MHz)**

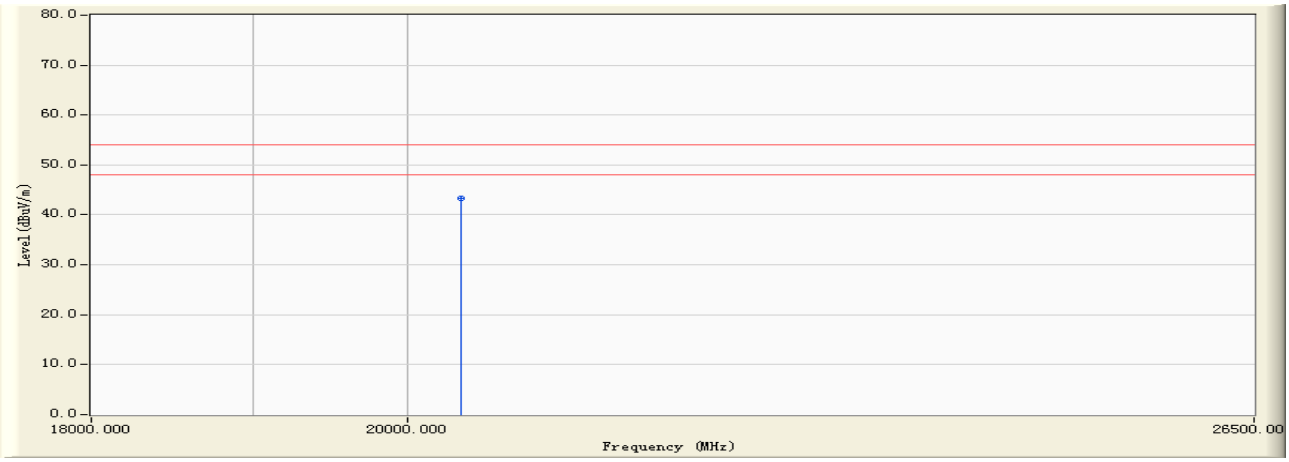


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20358.400	4.714	57.520	62.233	-11.767	74.000	PEAK

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 : 2010/07/29 - 11:22**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2437MHz)**

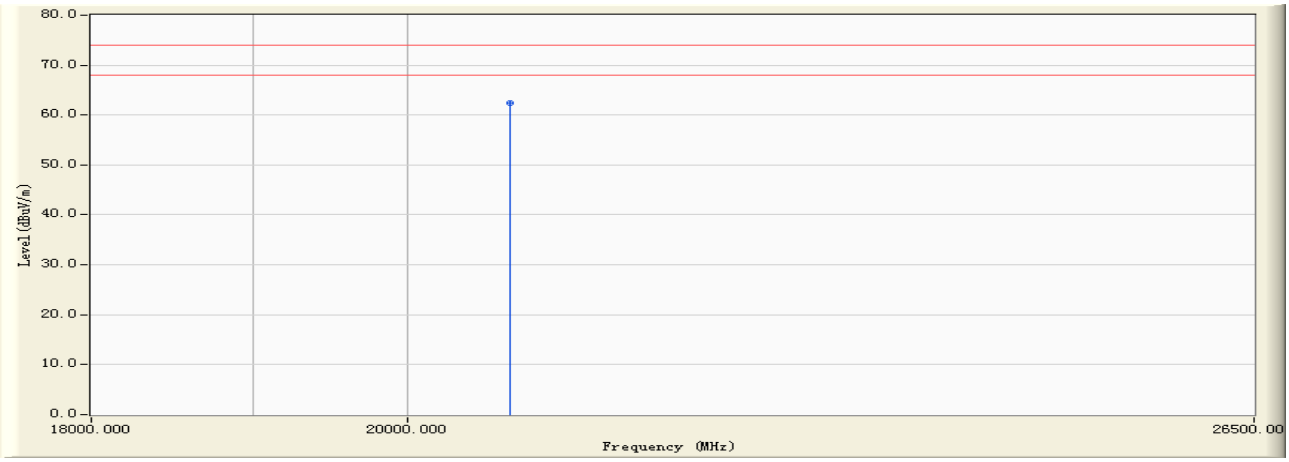


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20358.400	4.714	38.613	43.326	-10.674	54.000	AVERAGE

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 : 2010/07/29 - 11:23**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2437MHz)**

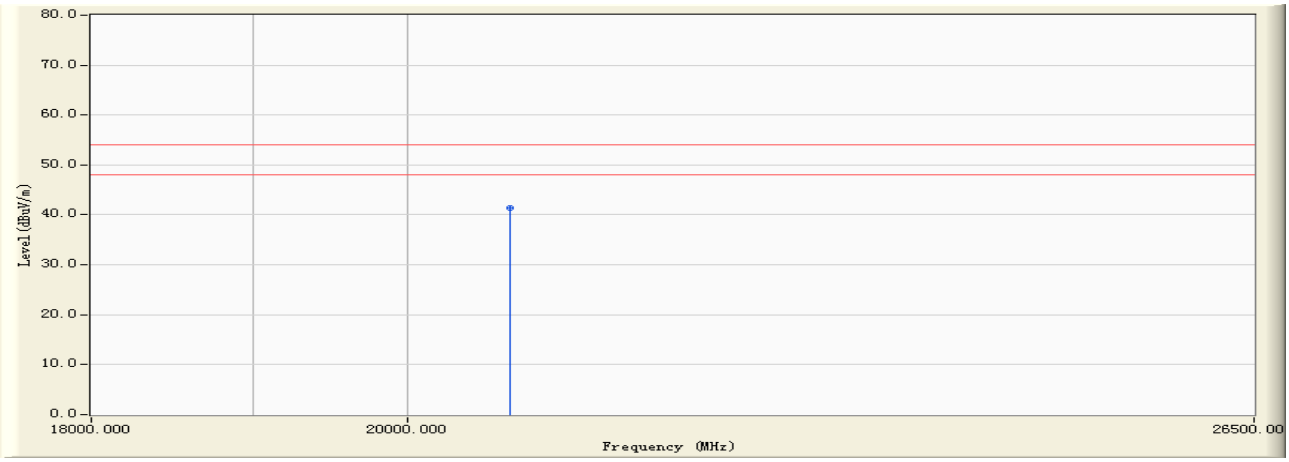


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20685.400	4.808	57.620	62.427	-11.573	74.000	PEAK

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 : 2010/07/29 - 11:23**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2437MHz)**

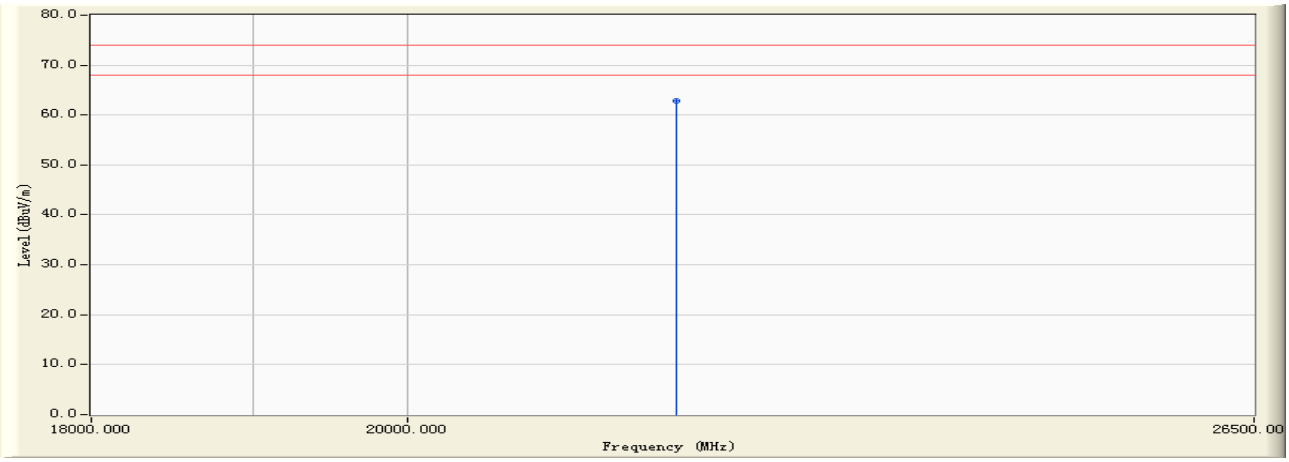


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20685.400	4.808	36.540	41.347	-12.653	54.000	AVERAGE

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 : 2010/07/29 - 11:24**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2462MHz)**

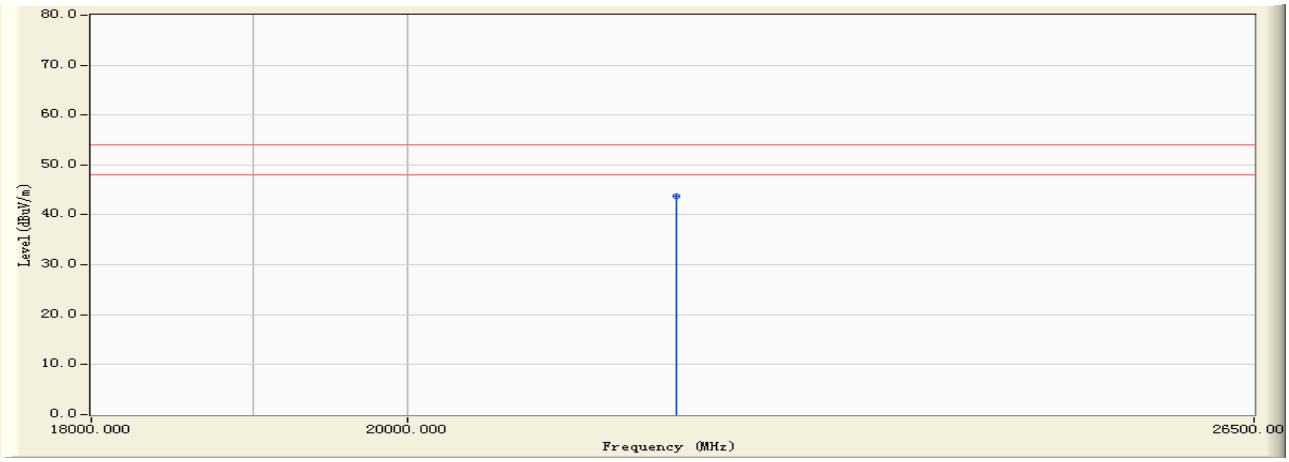


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21863.400	5.158	57.620	62.778	-11.222	74.000	PEAK

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 : 2010/07/29 - 11:24**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2462MHz)**

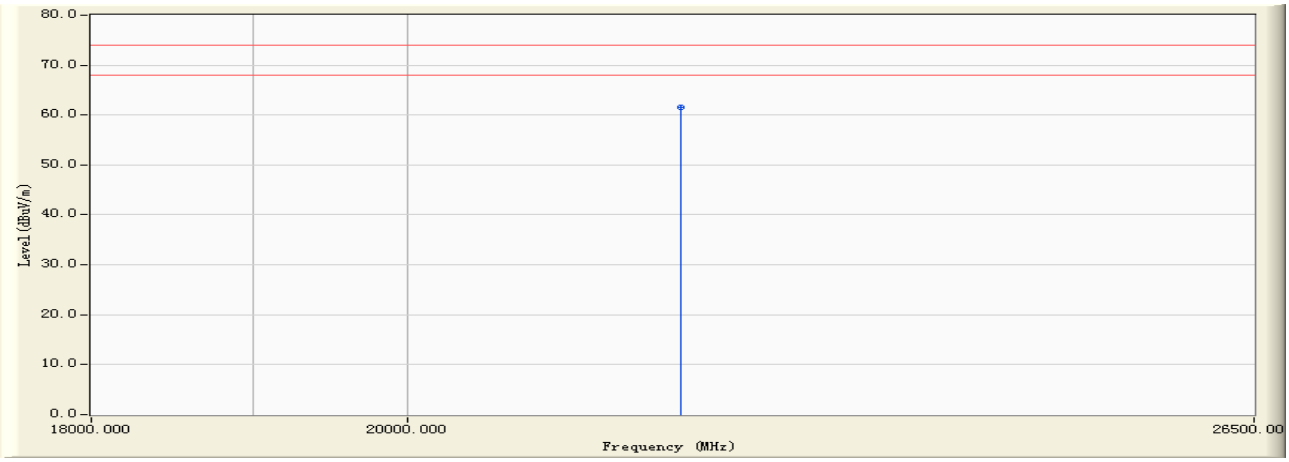


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21863.400	5.158	38.640	43.798	-10.202	54.000	AVERAGE

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 : 2010/07/29 - 11:24**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2462MHz)**

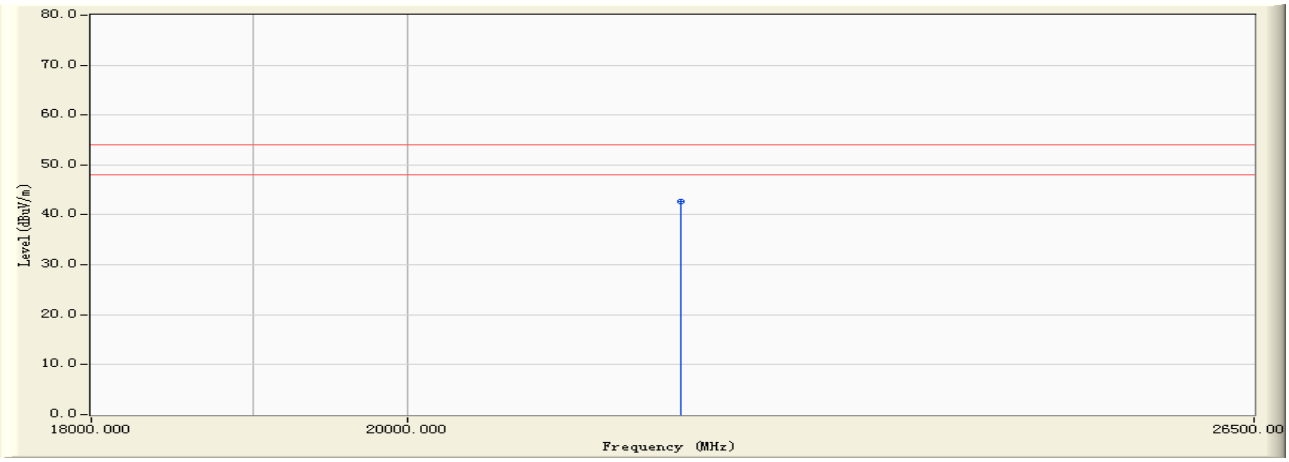


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21896.400	5.190	56.350	61.540	-12.460	74.000	PEAK

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 : 2010/07/29 - 11:24**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 2:Transmit by 802.11g (An0) (2462MHz)**

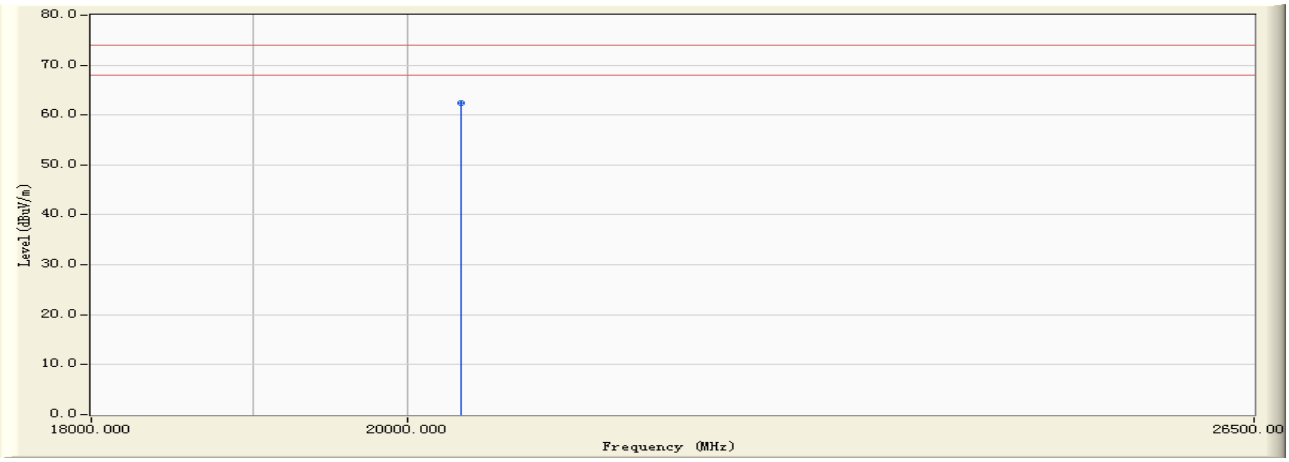


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21896.400	5.190	37.520	42.710	-11.290	54.000	AVERAGE

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 : 2010/07/29 - 11:26**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n (20MHz) (An0 and An1) (2412MHz)**

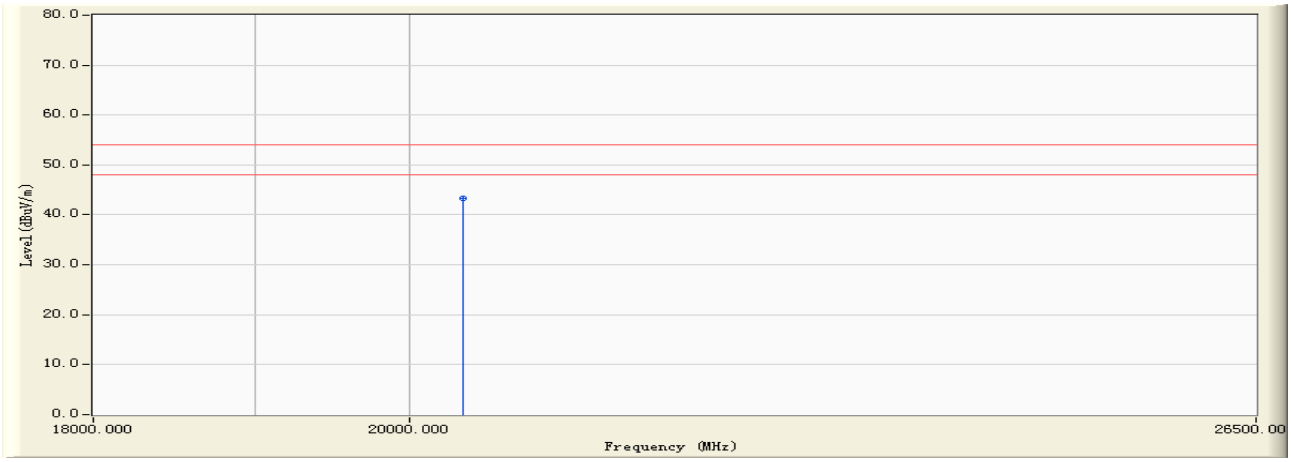


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20358.400	4.714	57.620	62.333	-11.667	74.000	PEAK

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 : 2010/07/29 - 11:26**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n (20MHz) (An0 and An1) (2412MHz)**

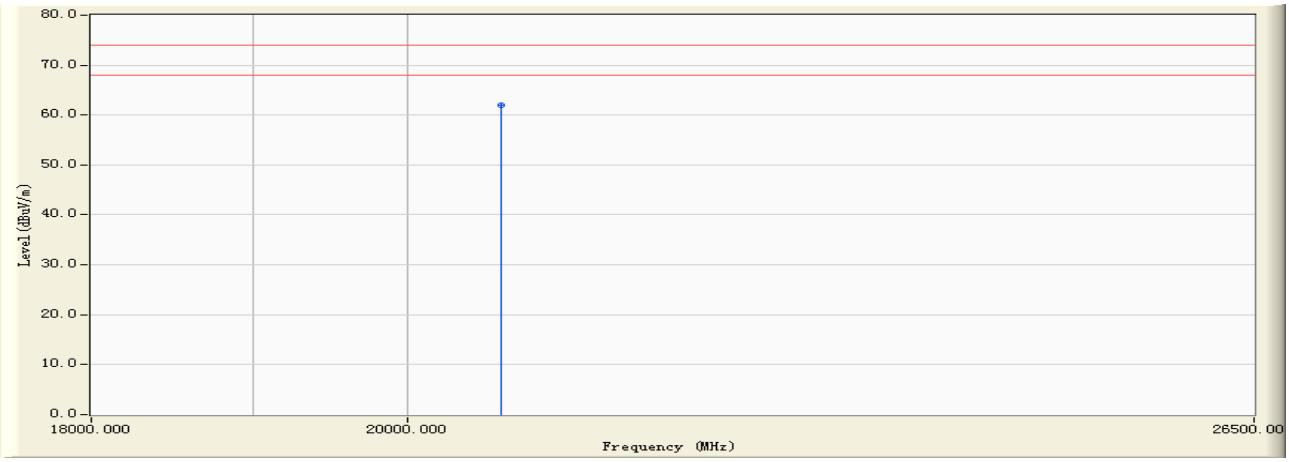


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20358.400	4.714	38.620	43.333	-10.667	54.000	AVERAGE

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 : 2010/07/29 - 11:27**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n (20MHz) (An0 and An1) (2412MHz)**

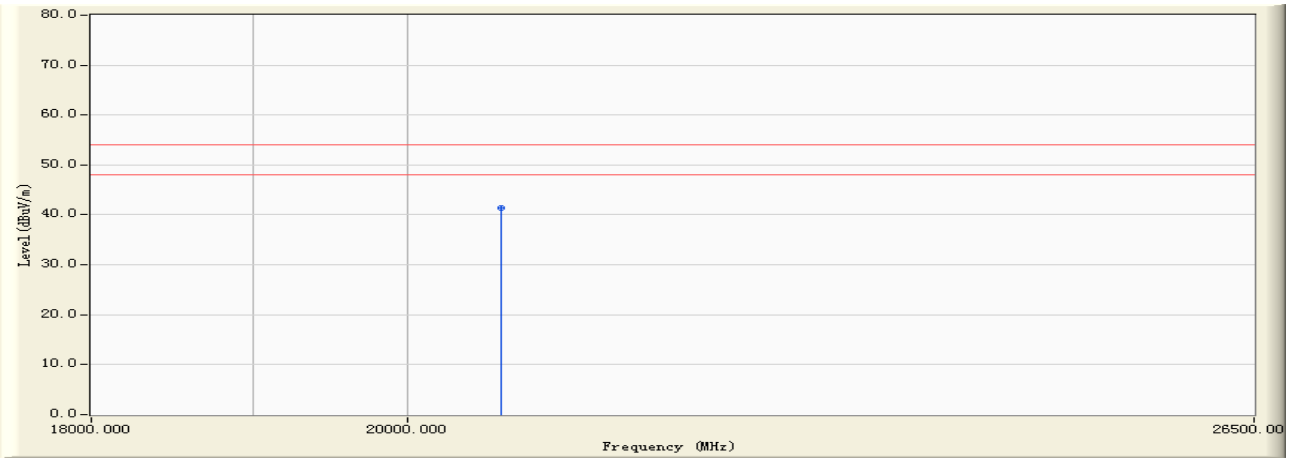


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20632.400	4.793	57.250	62.043	-11.957	74.000	PEAK

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 : 2010/07/29 - 11:27**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n (20MHz) (An0 and An1) (2412MHz)**

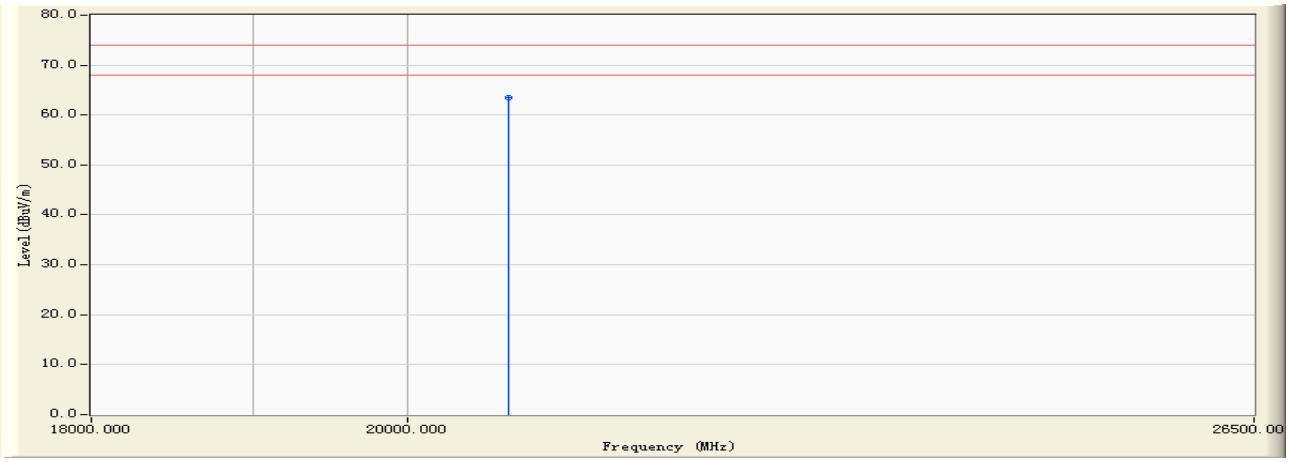


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20632.400	4.793	36.510	41.303	-12.697	54.000	AVERAGE

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 : 2010/07/29 - 11:28**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n (20MHz) (An0 and An1) (2437MHz)**

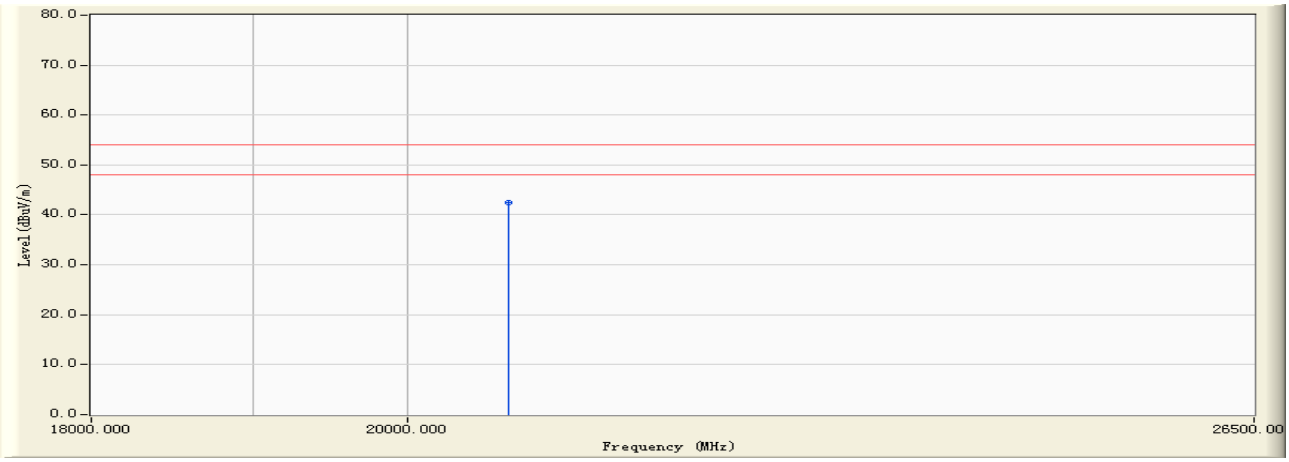


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20683.400	4.806	58.630	63.436	-10.564	74.000	PEAK

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 : 2010/07/29 - 11:28**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n (20MHz) (An0 and An1) (2437MHz)**

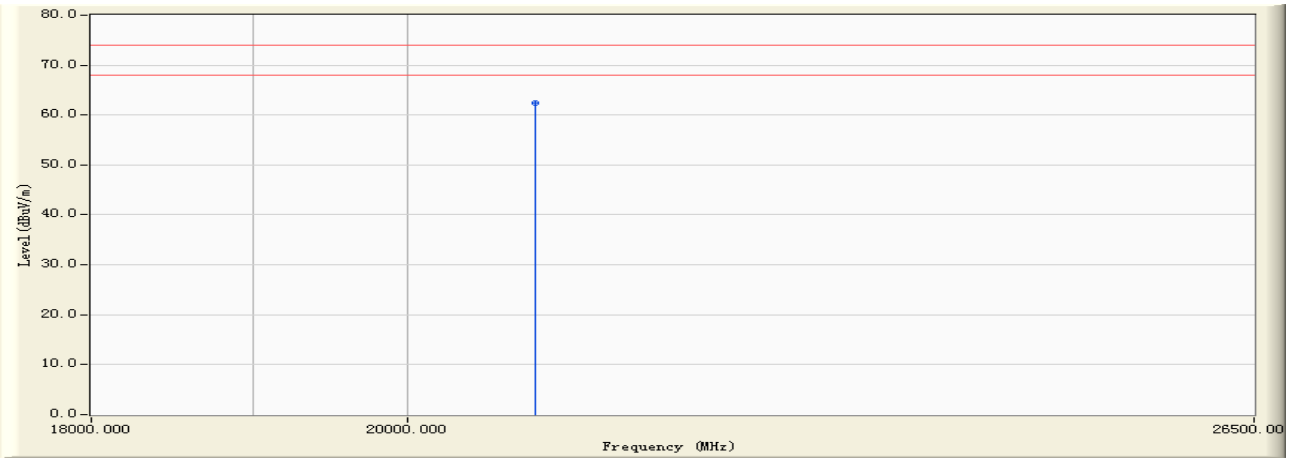


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20683.400	4.806	37.620	42.426	-11.574	54.000	AVERAGE

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 : 2010/07/29 - 11:29**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n (20MHz) (An0 and An1) (2437MHz)**

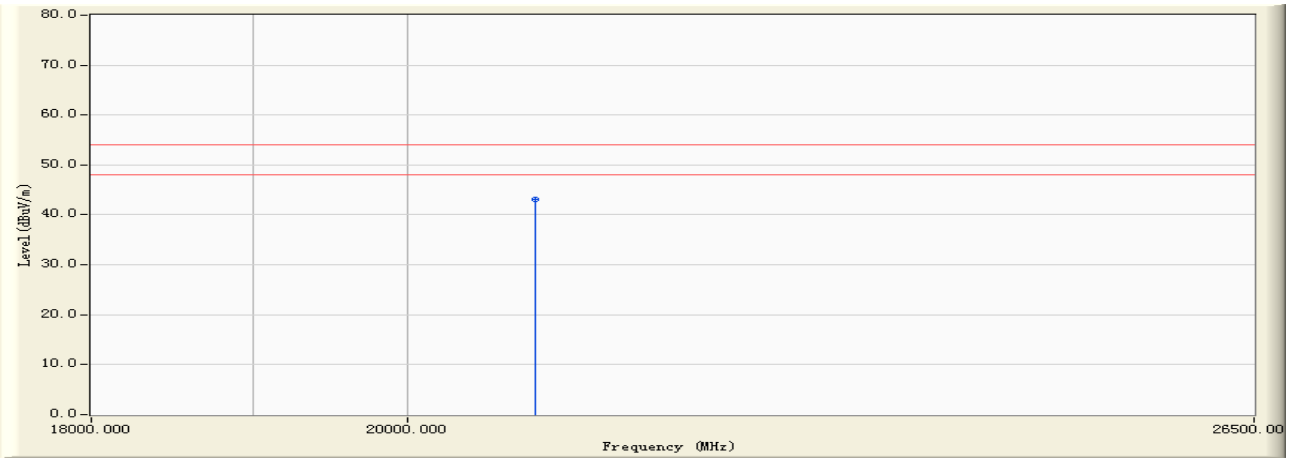


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20869.400	4.837	57.520	62.357	-11.643	74.000	PEAK

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 : 2010/07/29 - 11:29**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n (20MHz) (An0 and An1) (2437MHz)**

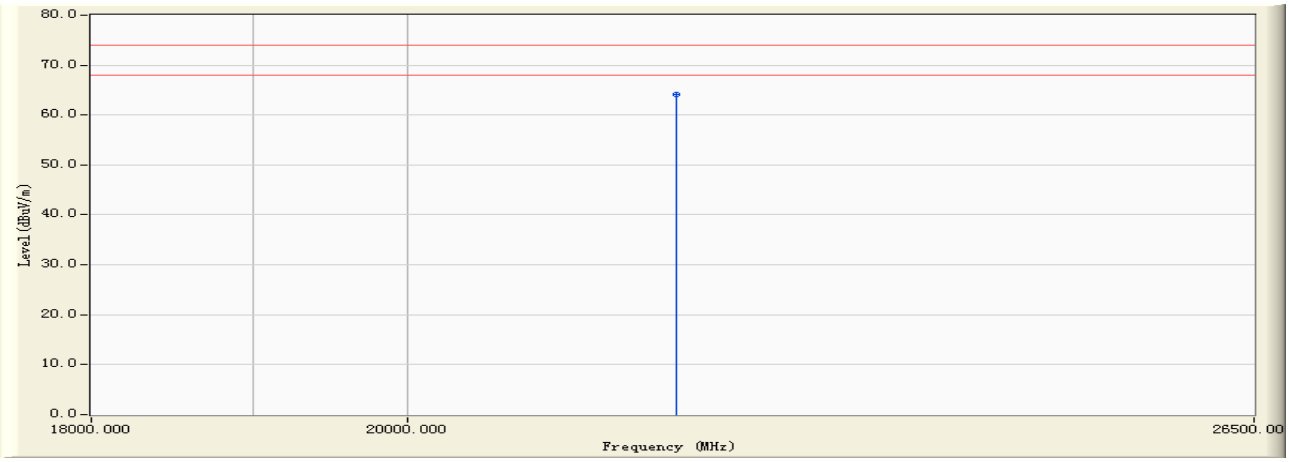


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20869.400	4.837	38.210	43.047	-10.953	54.000	AVERAGE

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 : 2010/07/29 - 11:29**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n (20MHz) (An0 and An1) (2462MHz)**

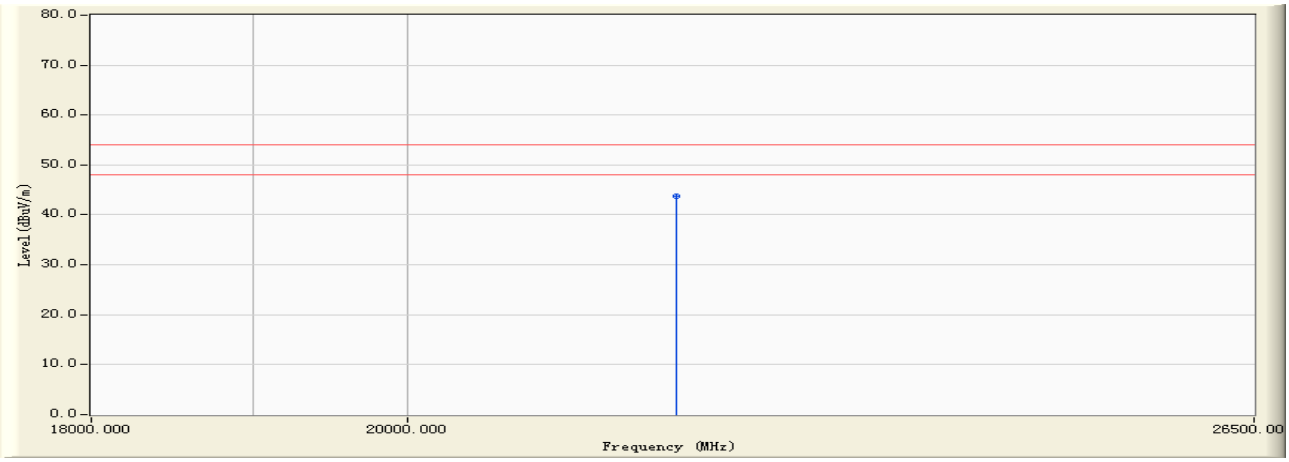


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21865.200	5.159	58.960	64.119	-9.881	74.000	PEAK

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 : 2010/07/29 - 11:29**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n (20MHz) (An0 and An1) (2462MHz)**

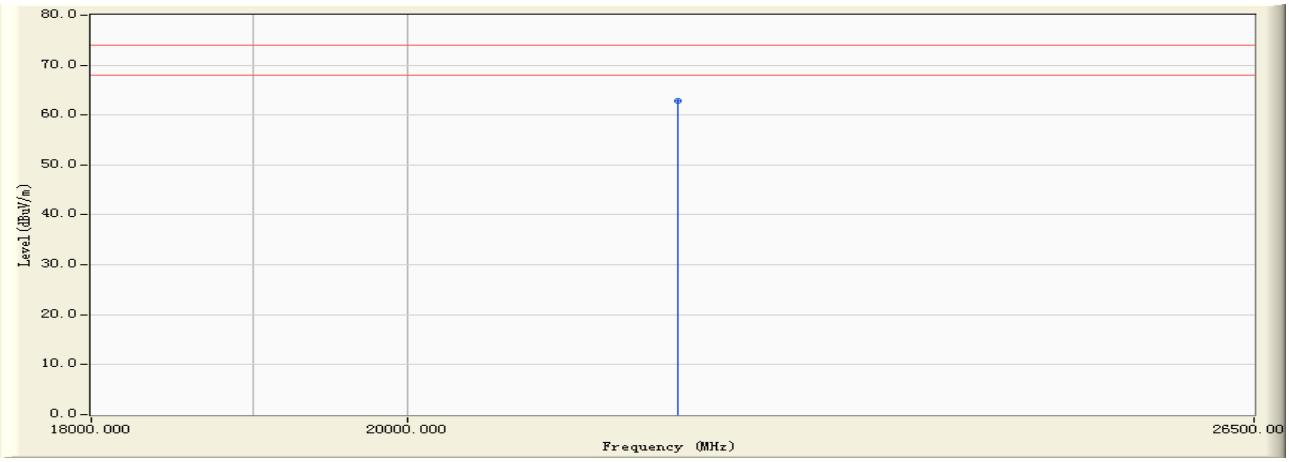


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21865.200	5.159	38.650	43.809	-10.191	54.000	AVERAGE

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 : 2010/07/29 - 11:30**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n (20MHz) (An0 and An1) (2462MHz)**

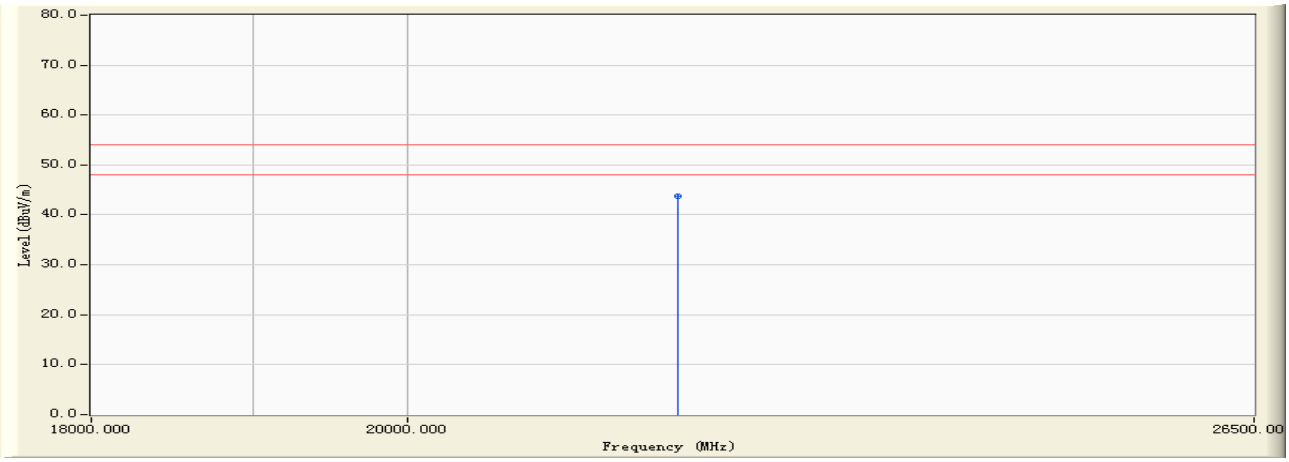


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21875.100	5.170	57.630	62.800	-11.200	74.000	PEAK

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 : 2010/07/29 - 11:30**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n (20MHz) (An0 and An1) (2462MHz)**

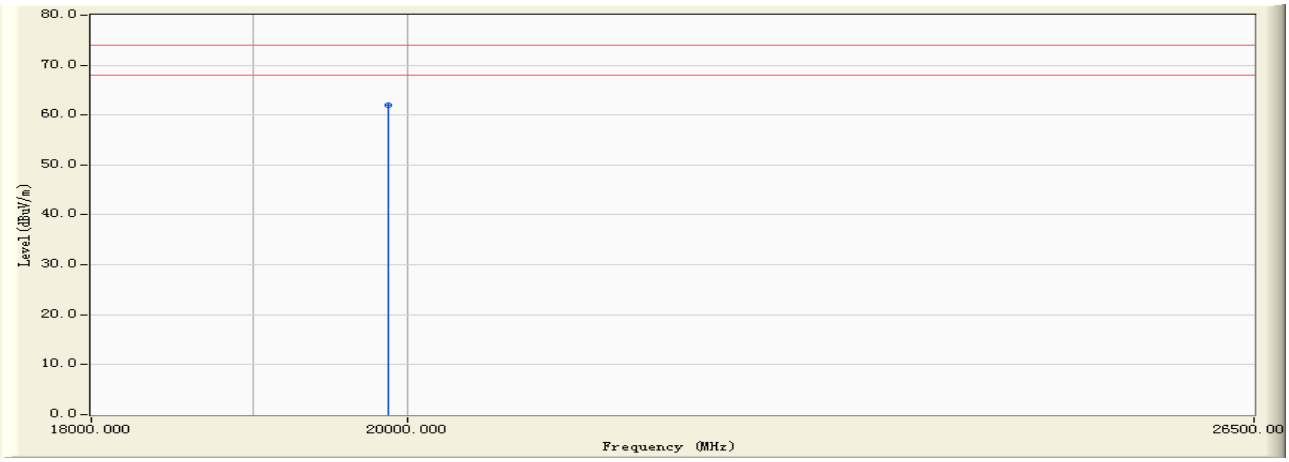


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21875.100	5.170	38.640	43.810	-10.190	54.000	AVERAGE

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 : 2010/07/29 - 11:31**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n (40MHz) (An0 and An1) (2422MHz)**

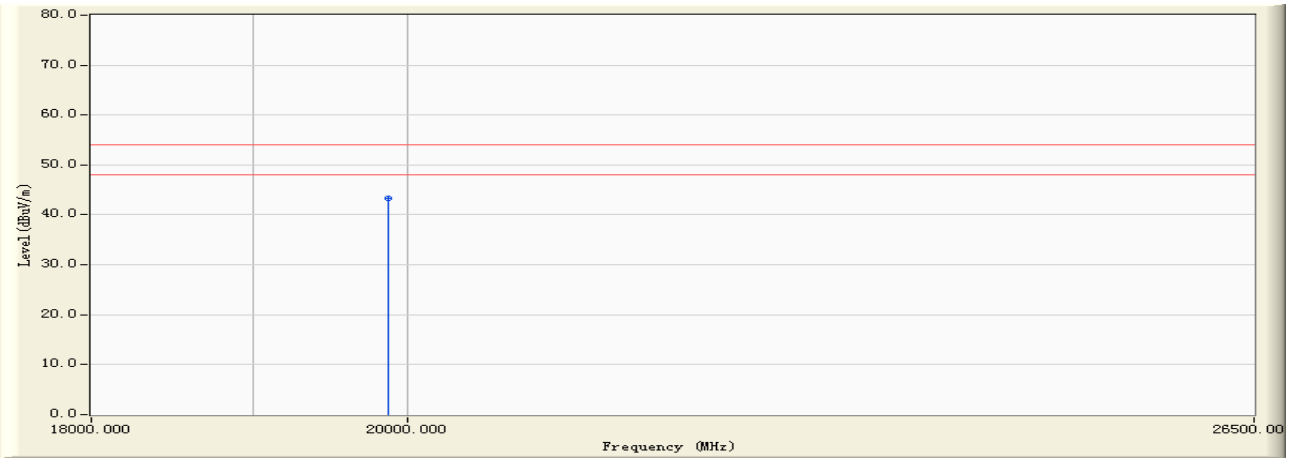


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	19865.400	4.712	57.350	62.062	-11.938	74.000	PEAK

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 : 2010/07/29 - 11:31**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n (40MHz) (An0 and An1) (2422MHz)**

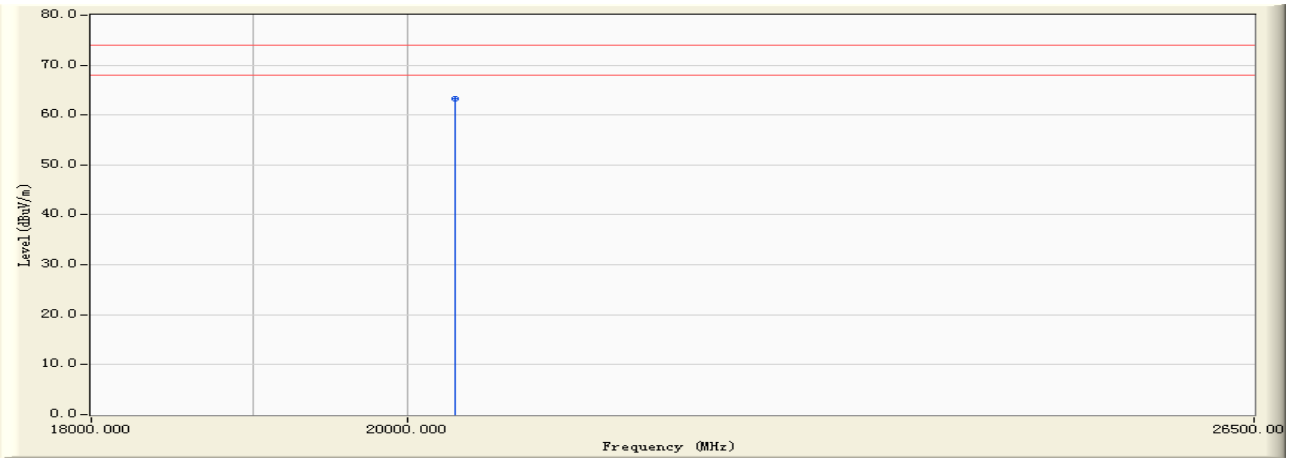


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	19865.400	4.712	38.620	43.332	-10.668	54.000	AVERAGE

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 : 2010/07/29 - 11:32**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n (40MHz) (An0 and An1) (2422MHz)**

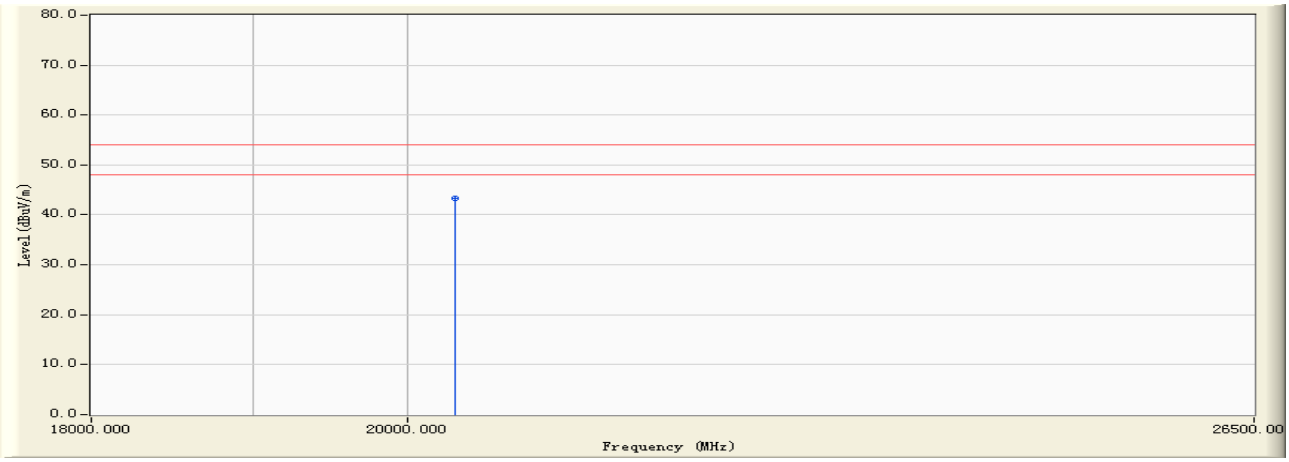


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20314.200	4.686	58.630	63.317	-10.683	74.000	PEAK

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 : 2010/07/29 - 11:32**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n (40MHz) (An0 and An1) (2422MHz)**

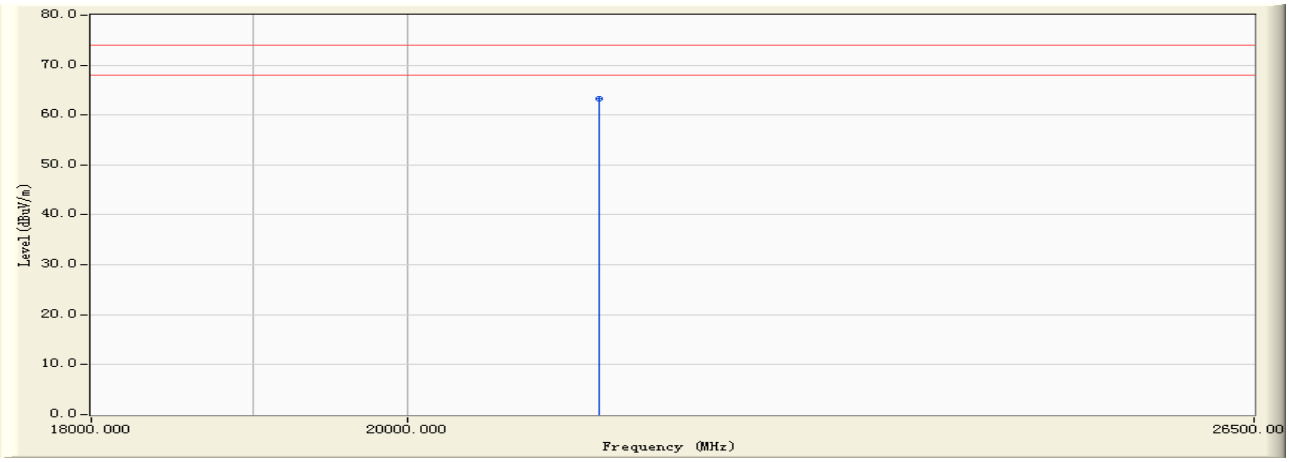


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	20314.200	4.686	38.620	43.307	-10.693	54.000	AVERAGE

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 : 2010/07/29 - 11:33**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n (40MHz) (An0 and An1) (2437MHz)**

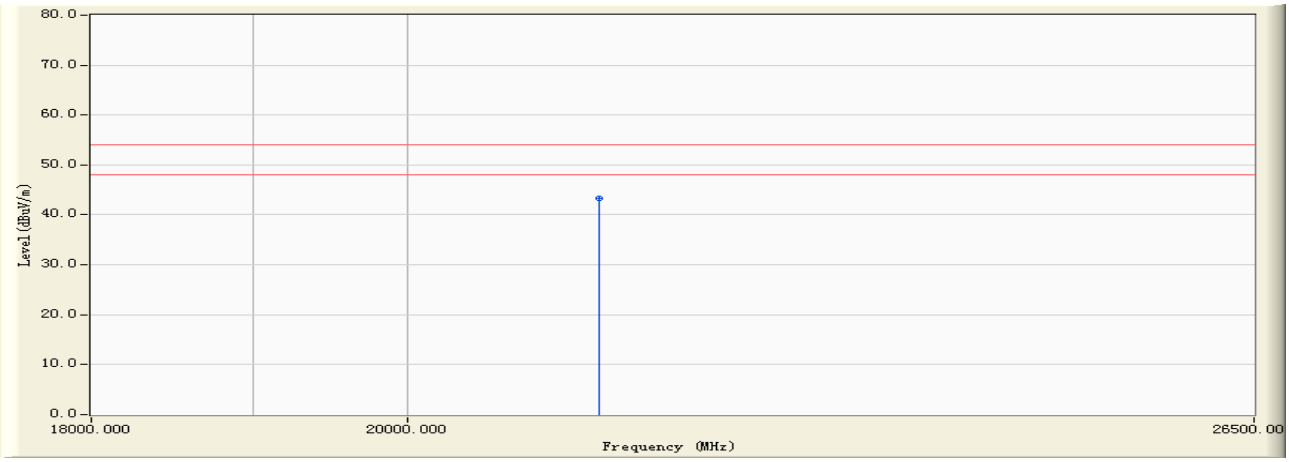


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21315.600	4.946	58.340	63.286	-10.714	74.000	PEAK

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 : 2010/07/29 - 11:33**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n (40MHz) (An0 and An1) (2437MHz)**

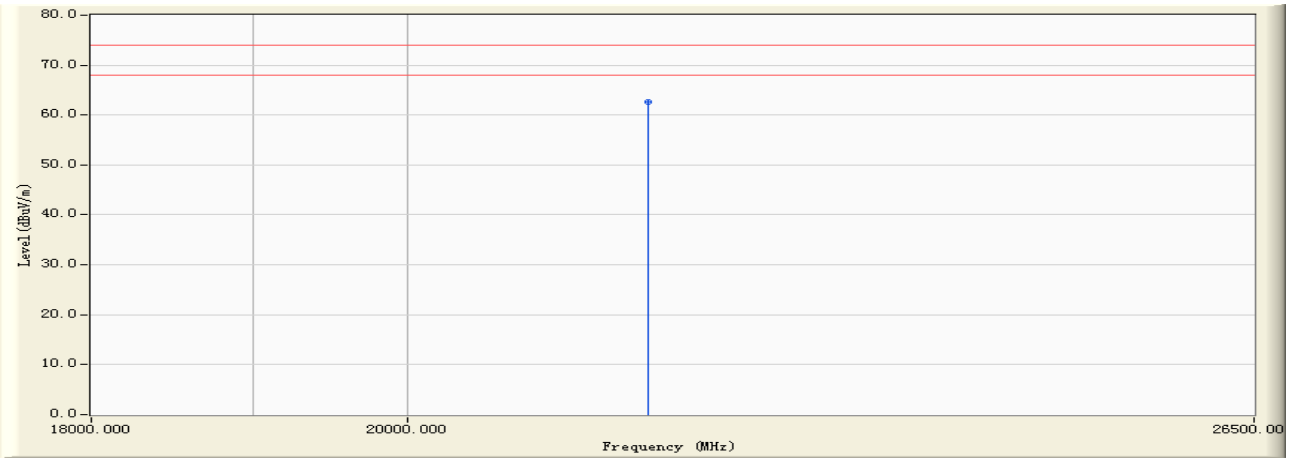


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21315.600	4.946	38.360	43.306	-10.694	54.000	AVERAGE

Note:

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

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/07/29 - 11:33**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n (40MHz) (An0 and An1) (2437MHz)**

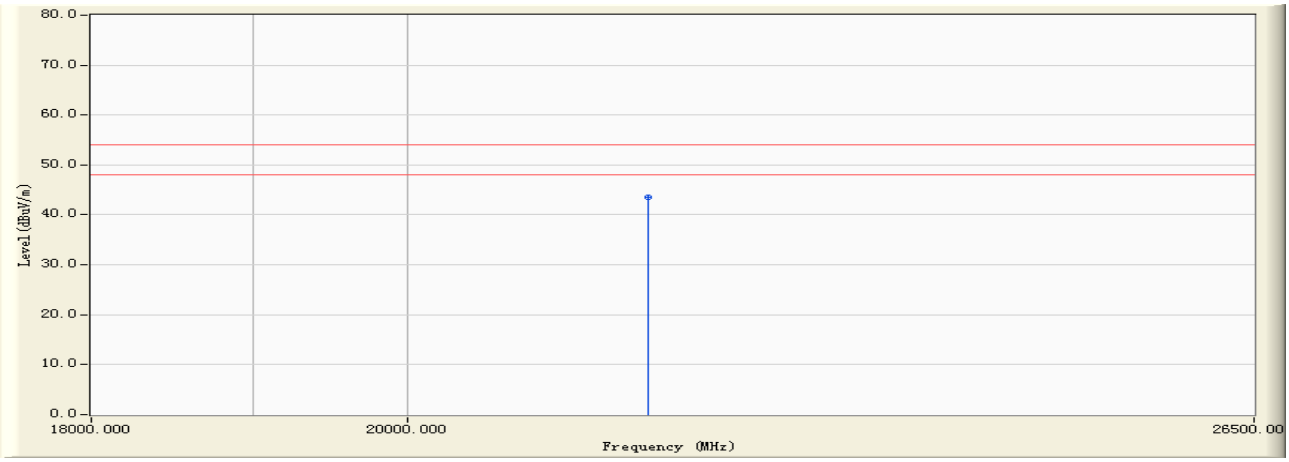


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21658.600	5.041	57.630	62.671	-11.329	74.000	PEAK

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 : 2010/07/29 - 11:33**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n (40MHz) (An0 and An1) (2437MHz)**

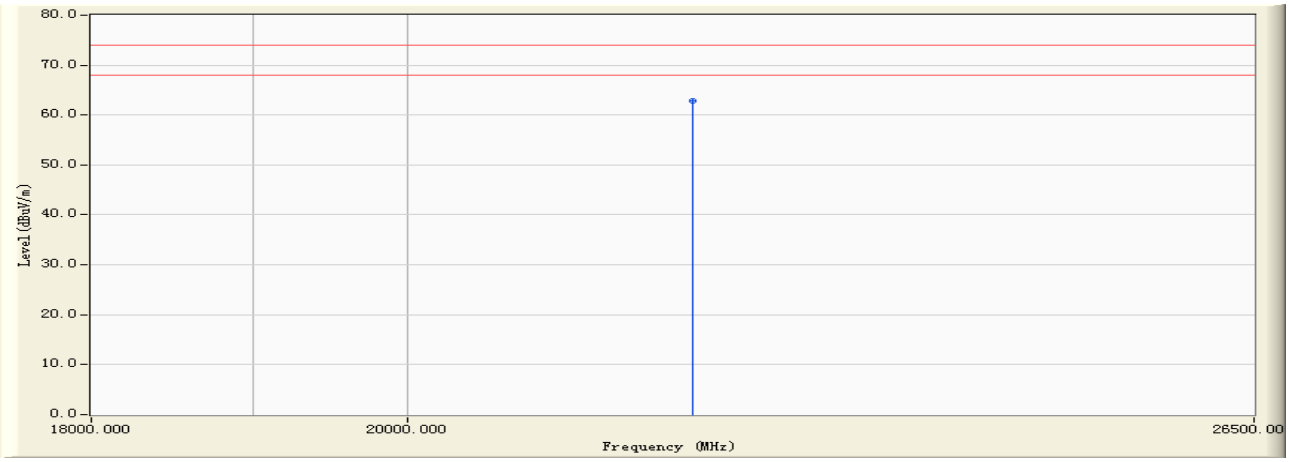


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21658.600	5.041	38.540	43.581	-10.419	54.000	AVERAGE

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 : 2010/07/29 - 11:34**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n (40MHz) (An0 and An1) (2452MHz)**

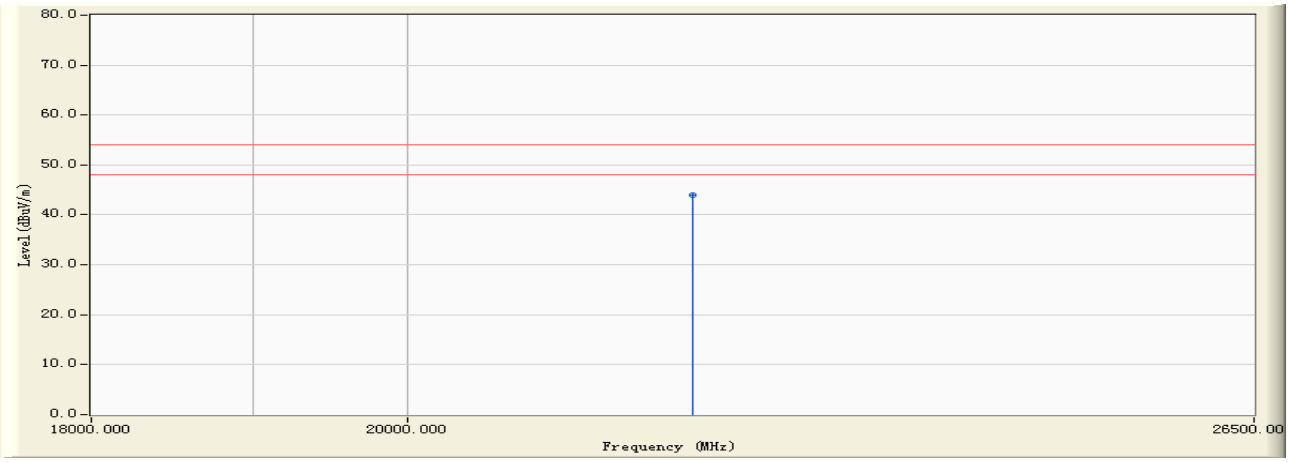


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21986.300	5.273	57.630	62.903	-11.097	74.000	PEAK

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 : 2010/07/29 - 11:34**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n (40MHz) (An0 and An1) (2452MHz)**

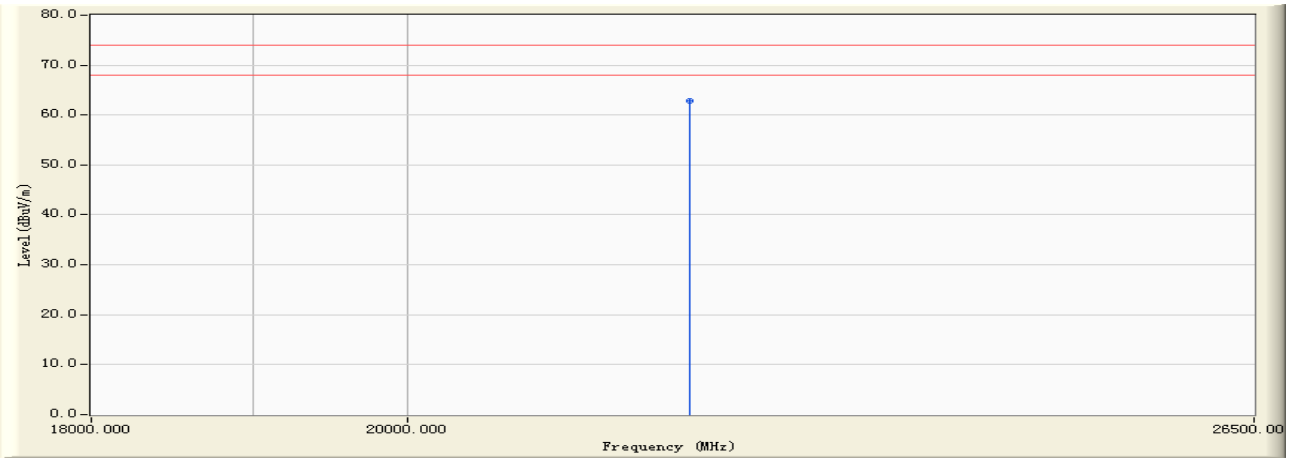


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21986.300	5.273	38.650	43.923	-10.077	54.000	AVERAGE

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 : 2010/07/29 - 11:37**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n (40MHz) (An0 and An1) (2452MHz)**

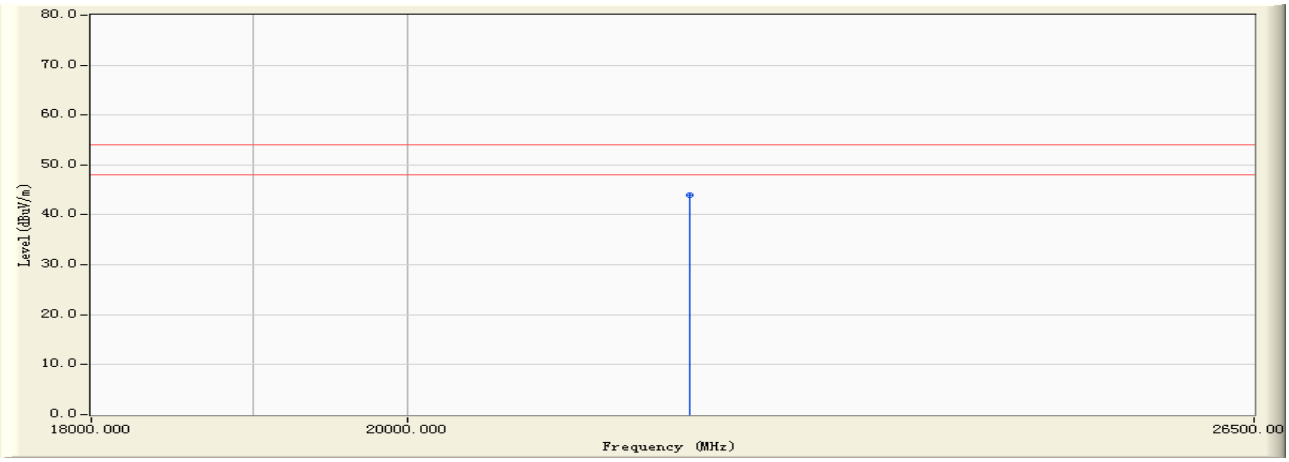


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21965.200	5.254	57.630	62.884	-11.116	74.000	PEAK

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 : 2010/07/29 - 11:37**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9170(18-26.5G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n (40MHz) (An0 and An1) (2452MHz)**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	21965.200	5.254	38.640	43.894	-10.106	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

5. Occupied Bandwidth

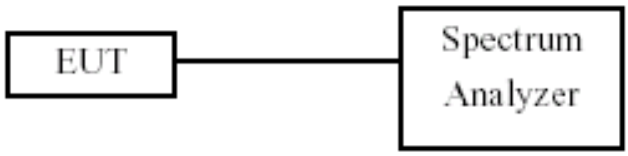
5.1. Test Limit

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

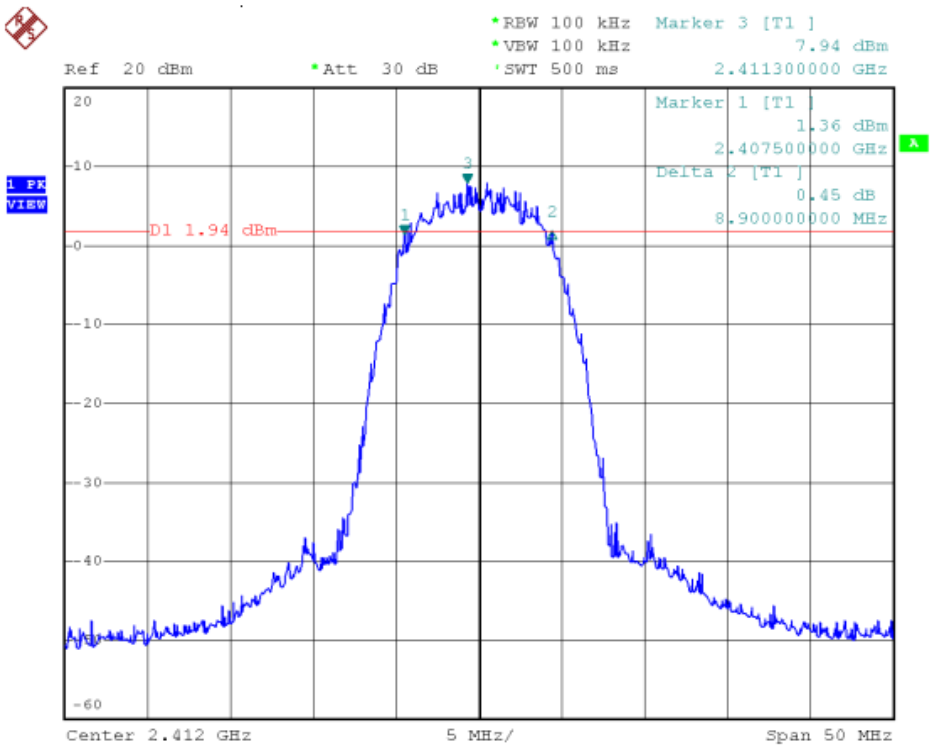
Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date
Spectrum Analyzer	R&S	FSP40	100324	2009.11.02
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2009.10.19

5.5. Test Result and Data

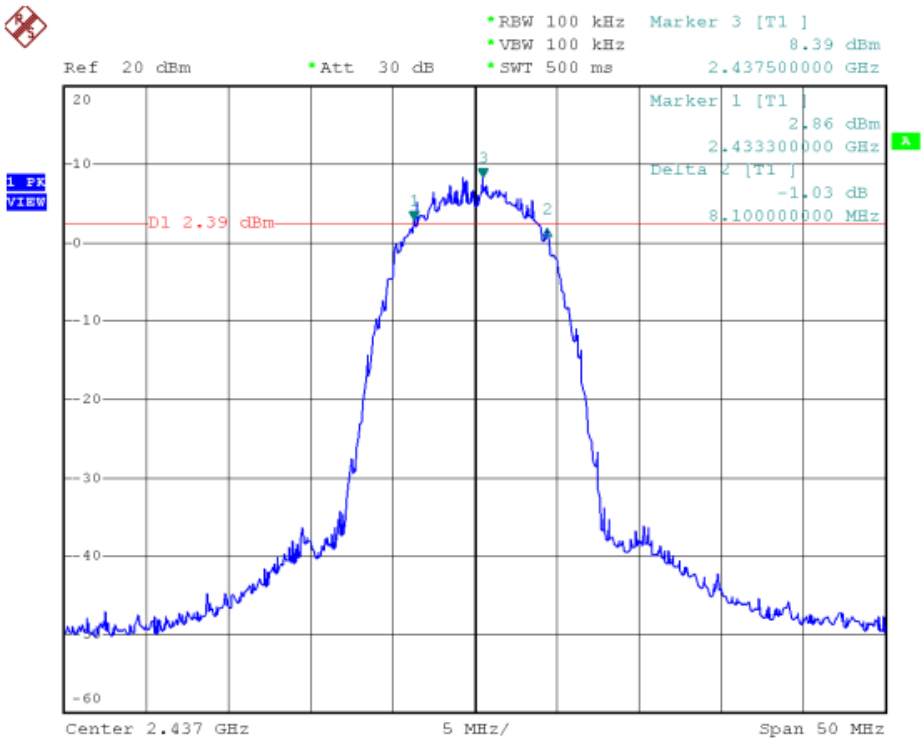
Test Item	Occupied Bandwidth
Test Mode	Mode 1:Transmit by 802.11b (An0)
Test Date	2010-07-22

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	8900	500	Pass
06	2437	8100	500	Pass
11	2462	8400	500	Pass

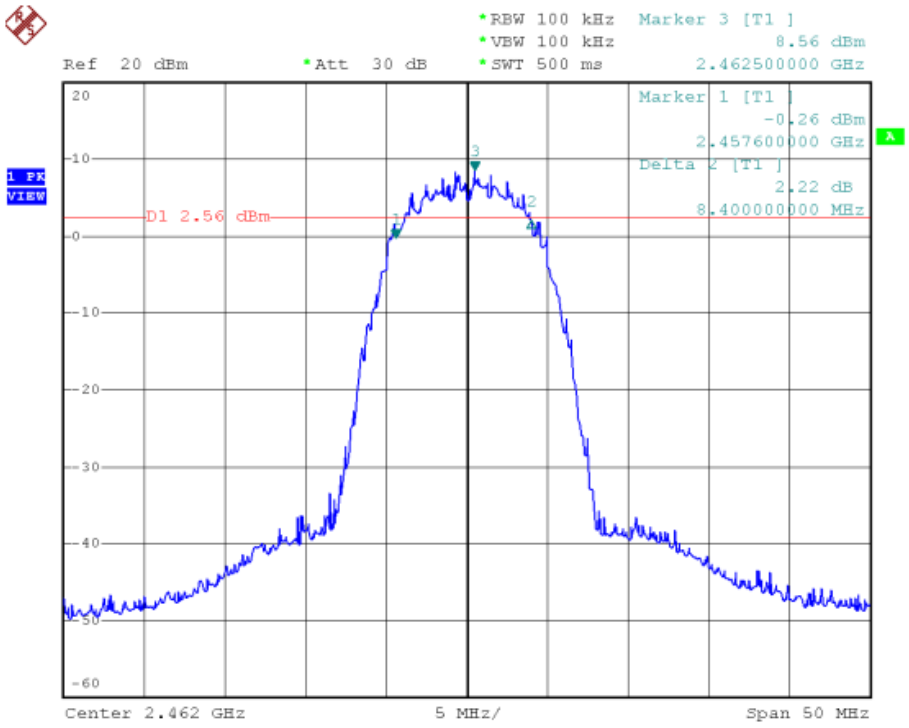
Channel 01 (2412MHz)



Channel 06 (2437MHz)



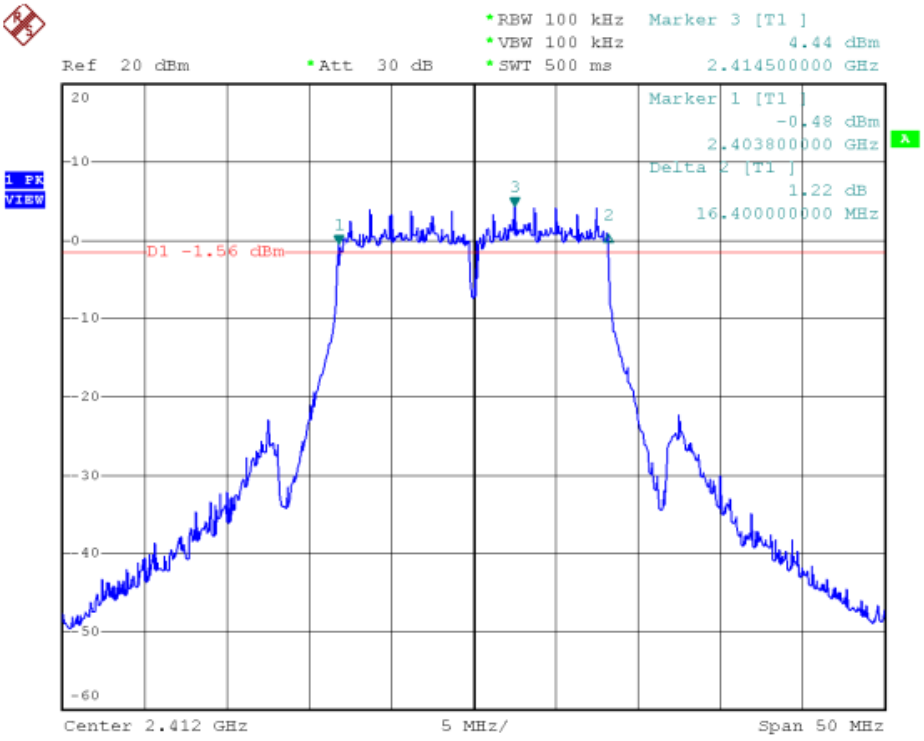
Channel 11 (2462MHz)



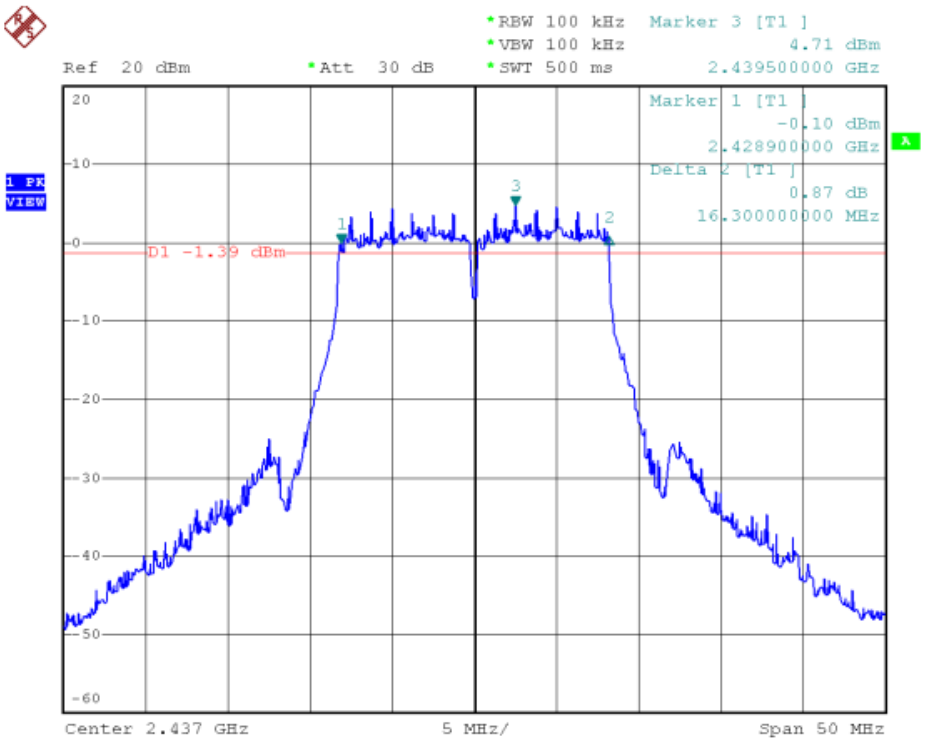
Test Item	Occupied Bandwidth
Test Mode	Mode 2:Transmit by 802.11g (An0)
Test Date	2010-07-22

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	16400	500	Pass
06	2437	16300	500	Pass
11	2462	16600	500	Pass

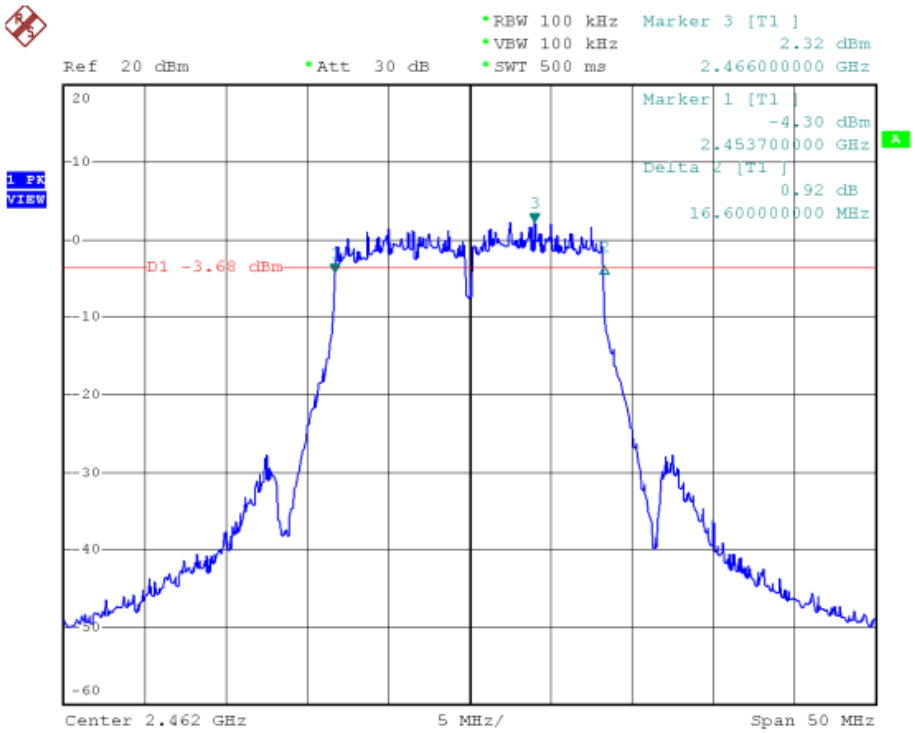
Channel 01 (2412MHz)



Channel 06 (2437MHz)



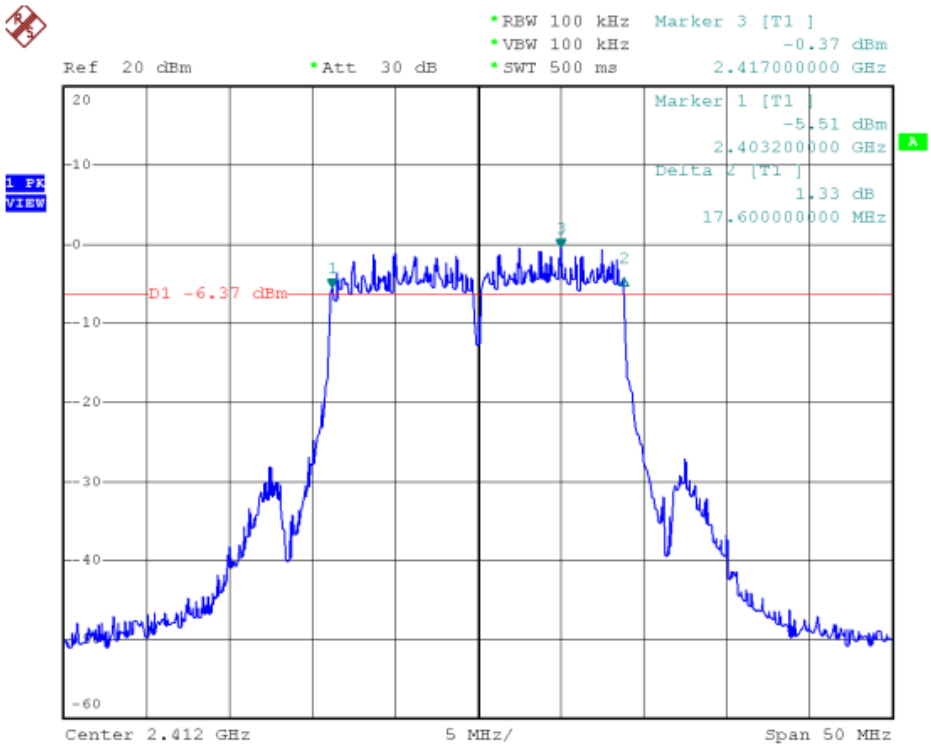
Channel 11 (2462MHz)



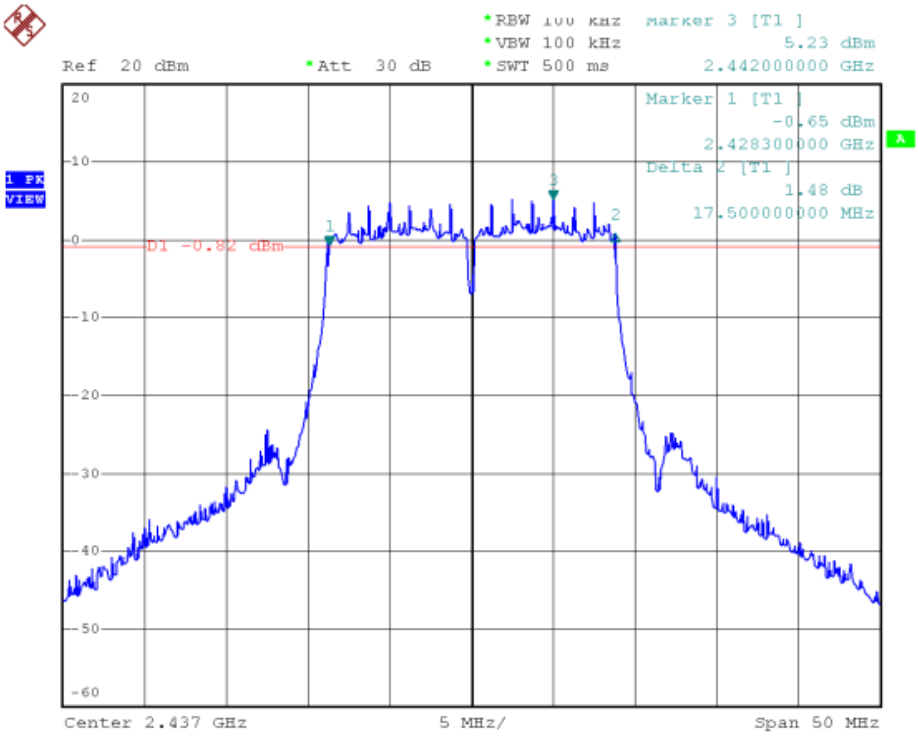
Test Item	Occupied Bandwidth
Test Mode	Mode 3: Transmit by 802.11n（20MHz）(An0)
Test Date	2010-07-22

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	17600	500	Pass
06	2437	17500	500	Pass
11	2462	17600	500	Pass

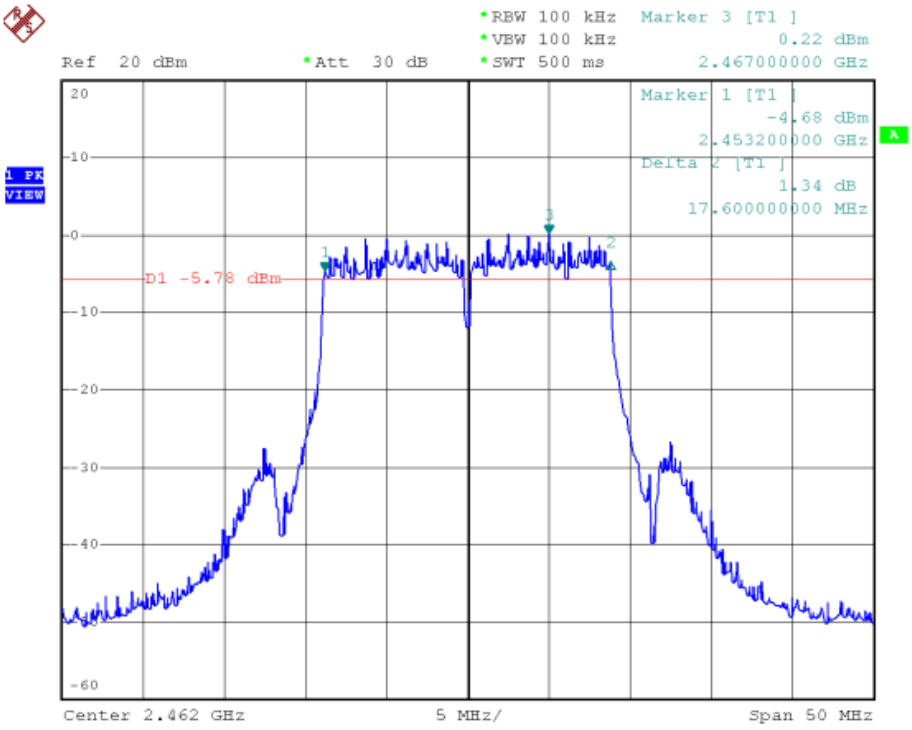
Channel 01 (2412MHz)



Channel 06 (2437MHz)



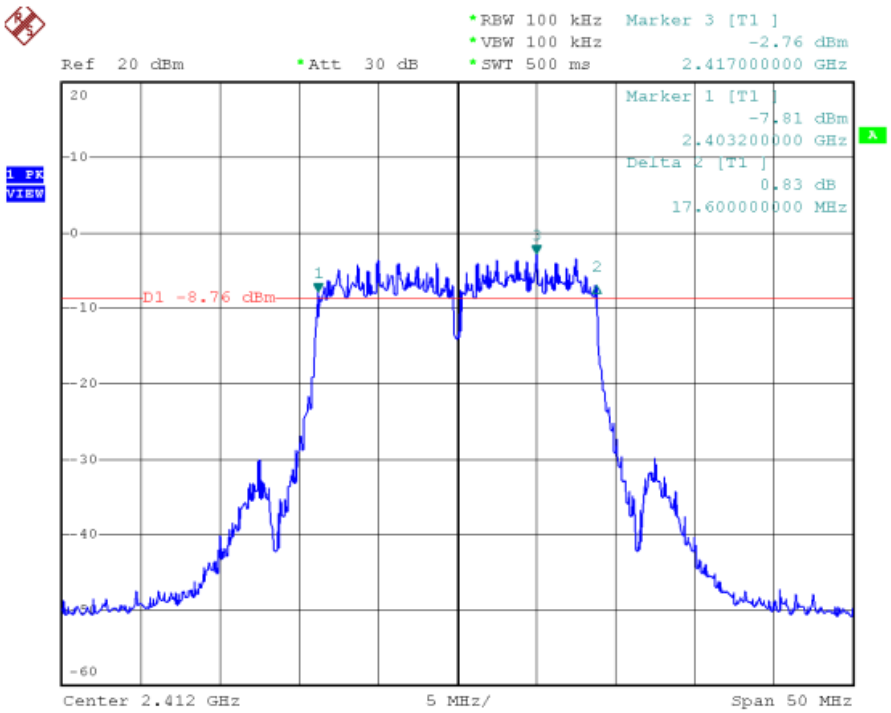
Channel 11 (2462MHz)



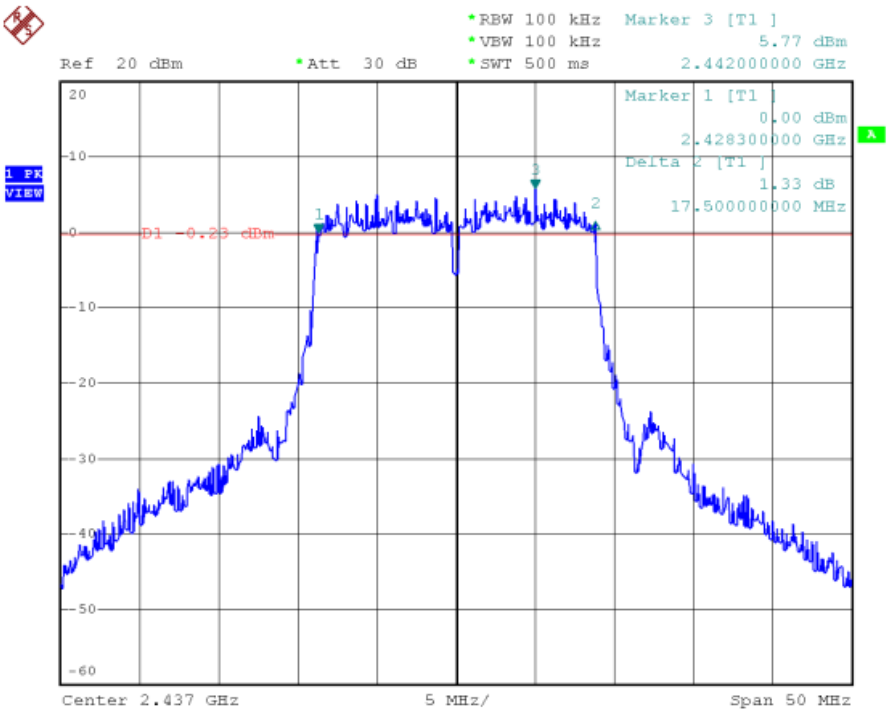
Test Item	Occupied Bandwidth
Test Mode	Mode 3: Transmit by 802.11n（20MHz）(An1)
Test Date	2010-07-22

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	17600	500	Pass
06	2437	17500	500	Pass
11	2462	17700	500	Pass

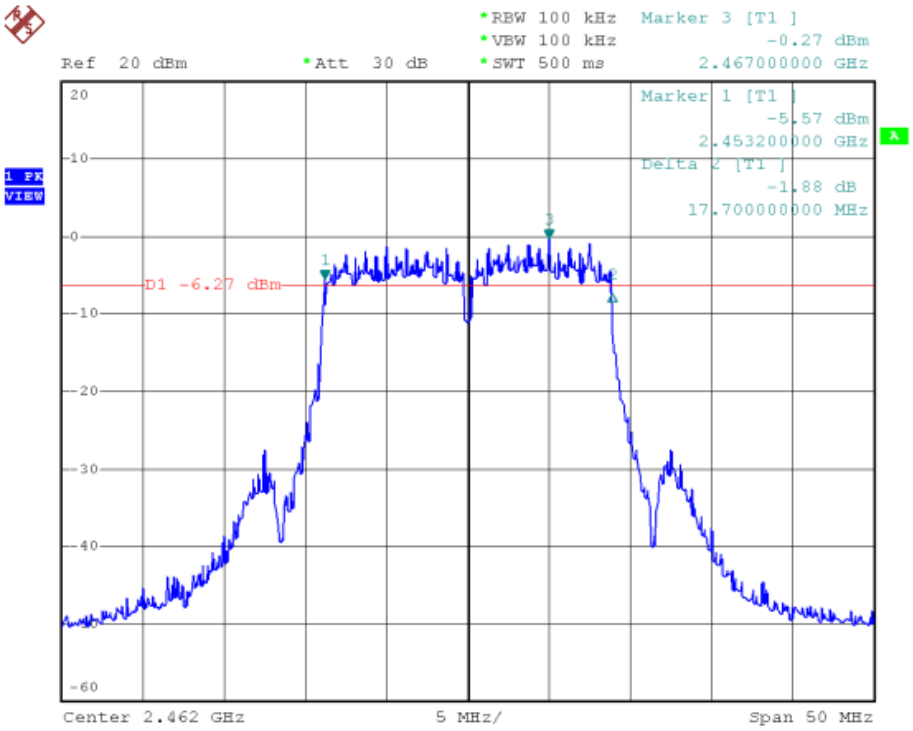
Channel 01 (2412MHz)



Channel 06 (2437MHz)



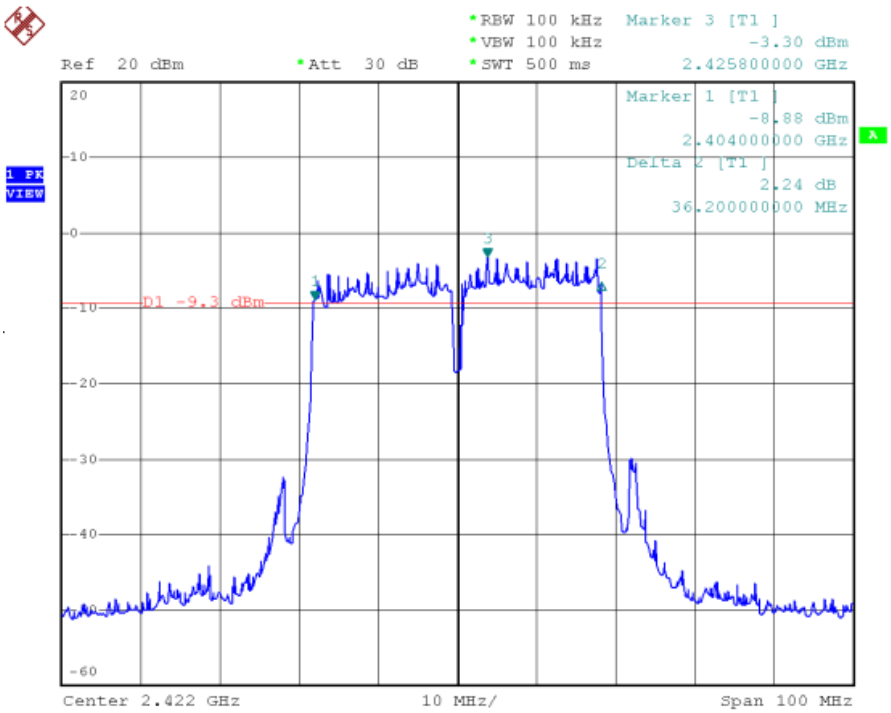
Channel 11 (2462MHz)



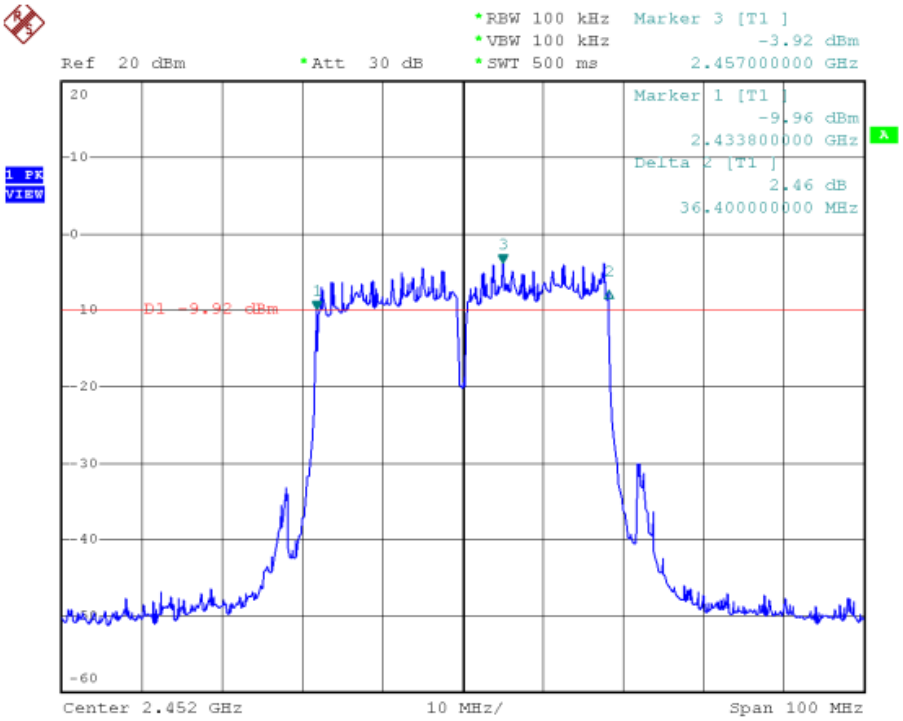
Test Item	Occupied Bandwidth
Test Mode	Mode 4: Transmit by 802.11n（40MHz）(An0)
Test Date	2010-07-22

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
03	2422	36200	500	Pass
06	2437	36400	500	Pass
09	2452	36200	500	Pass

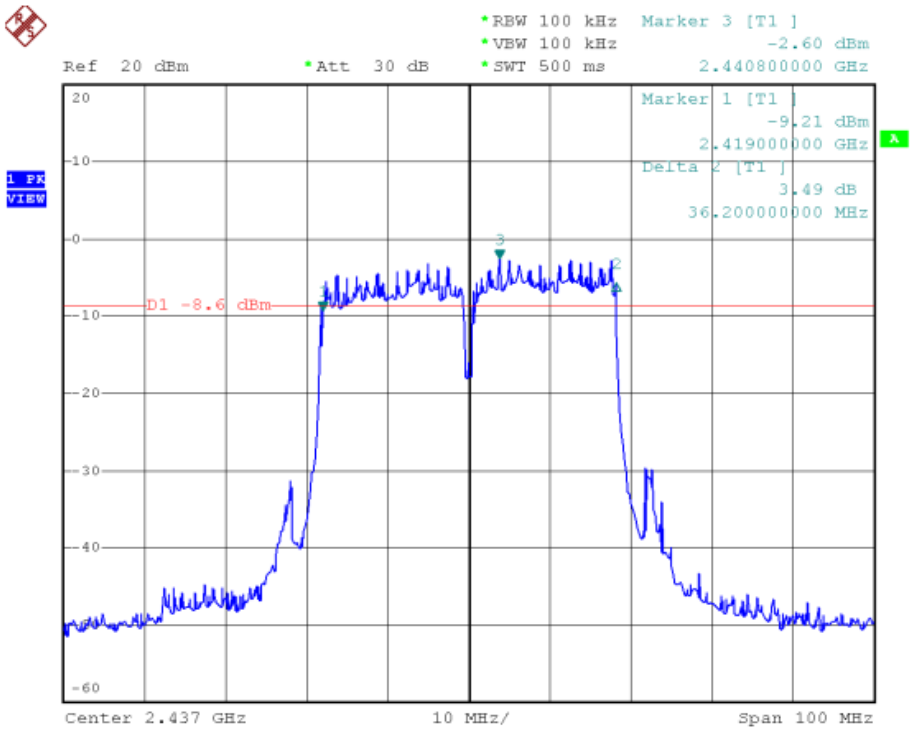
Channel 03 (2422MHz)



Channel 06 (2437MHz)



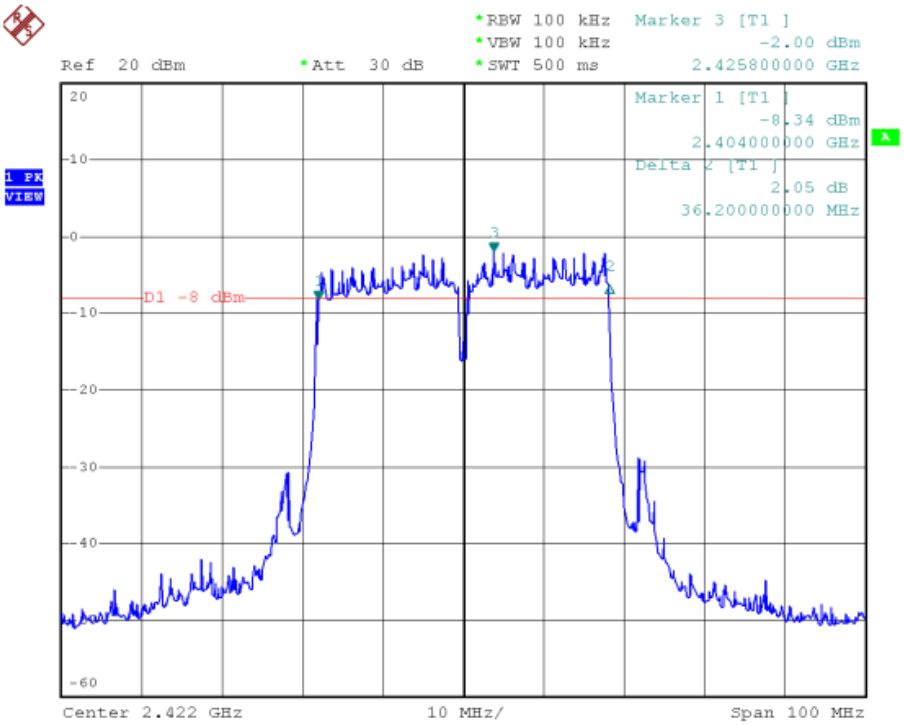
Channel 09 (2452MHz)



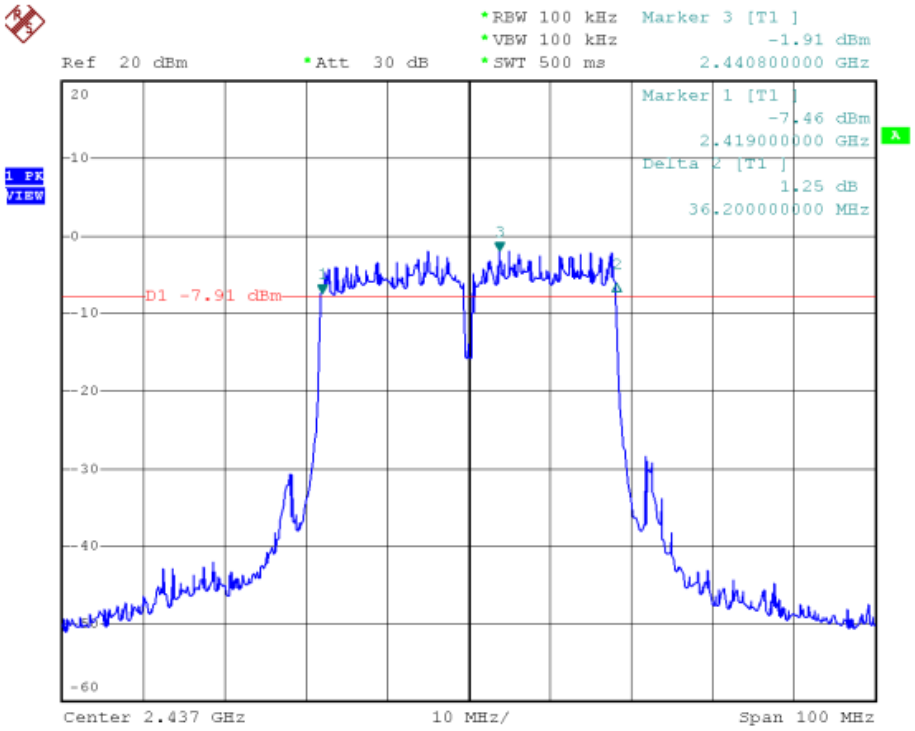
Test Item	Occupied Bandwidth
Test Mode	Mode 4: Transmit by 802.11n（40MHz）(An1)
Test Date	2010-07-22

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
03	2422	36200	500	Pass
06	2437	36200	500	Pass
09	2452	36200	500	Pass

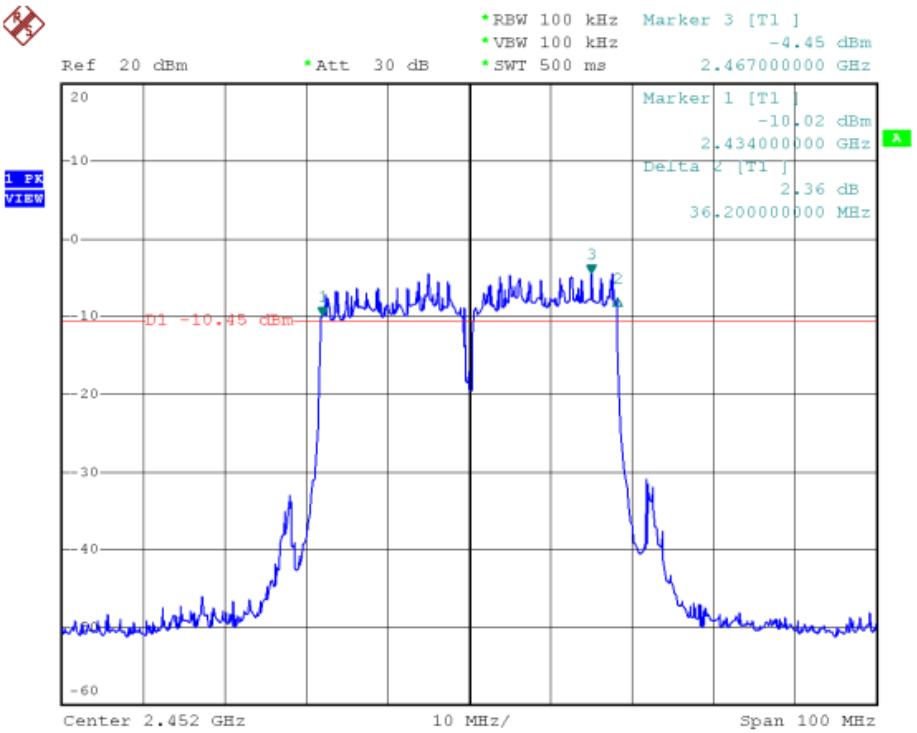
Channel 03 (2422MHz)



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.

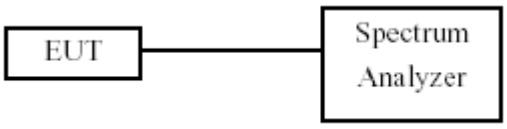
In the following, “T” is the transmission pulse duration over which the transmitter is on and transmitting at its maximum power control level. Measurements are performed with a spectrum analyzer. Three methods are provided to accommodate measurement limitations of the spectrum analyzer depending on signal 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” ≧ 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 ≧ 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

The EUT use SMA connector to perform the conducted peak power measurement.



6.4. Measurement Equipment

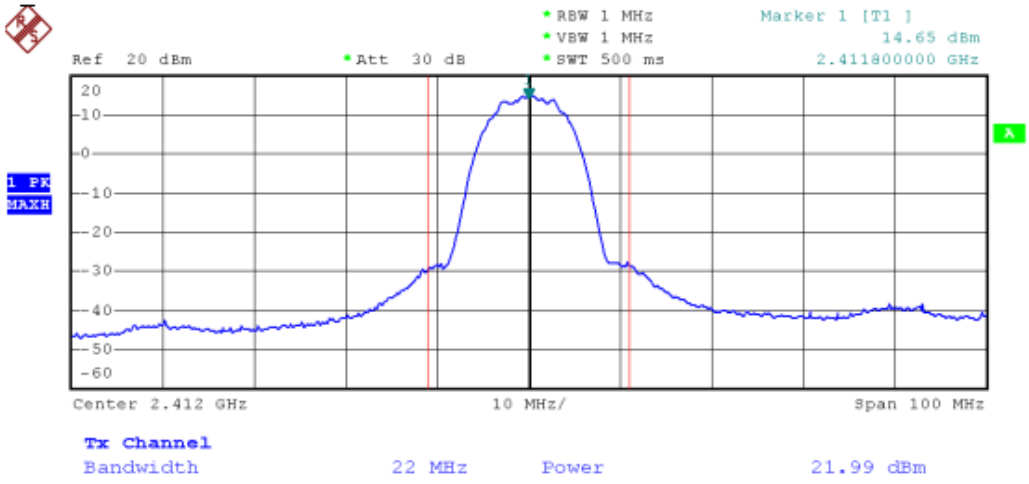
Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date
Spectrum Analyzer	R&S	FSP40	100324	2009.11.02
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2009.10.19

6.5. Test Result and Data

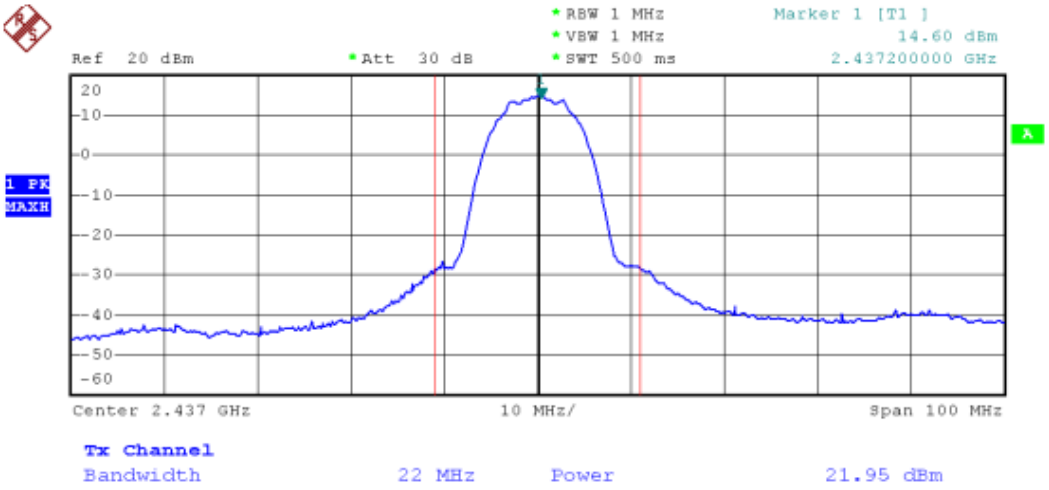
Test Item	Maximum Peak Output Power
Test Mode	Mode 1: Transmit by 802.11b (An0)
Test Date	2010-07-22

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit (dBm)	Result
01	2412	21.99	30 dBm	Pass
06	2437	21.95	30 dBm	Pass
11	2462	21.99	30 dBm	Pass

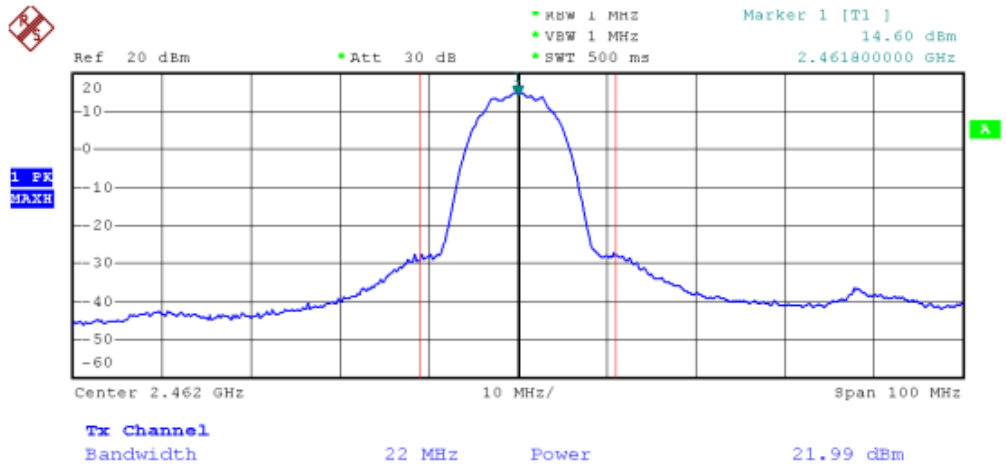
Channel 01 (2412MHz)



Channel 06 (2437MHz)



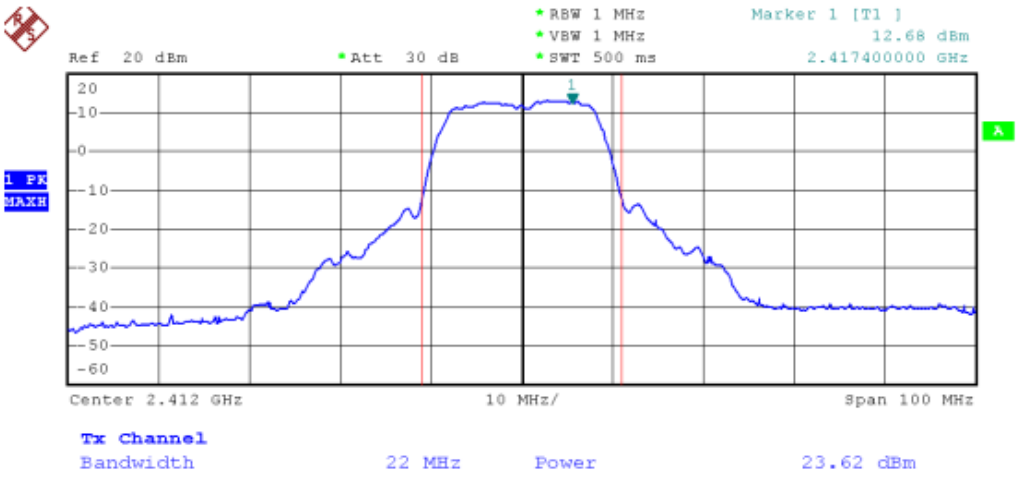
Channel 11 (2462MHz)



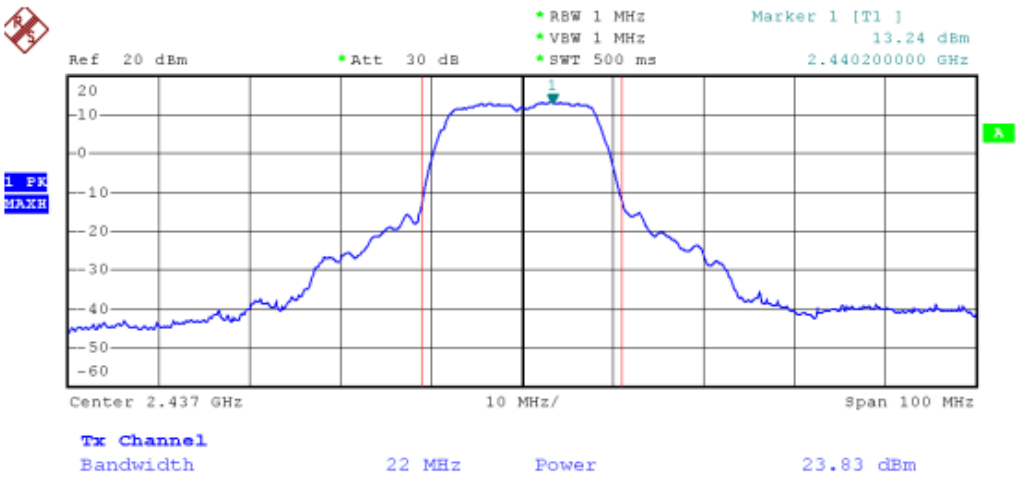
Test Item	Maximum Peak Output Power
Test Mode	Mode 2: Transmit by 802.11g (An0)
Test Date	2010-07-22

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit (dBm)	Result
01	2412	23.62	30 dBm	Pass
06	2437	23.83	30 dBm	Pass
11	2462	21.90	30 dBm	Pass

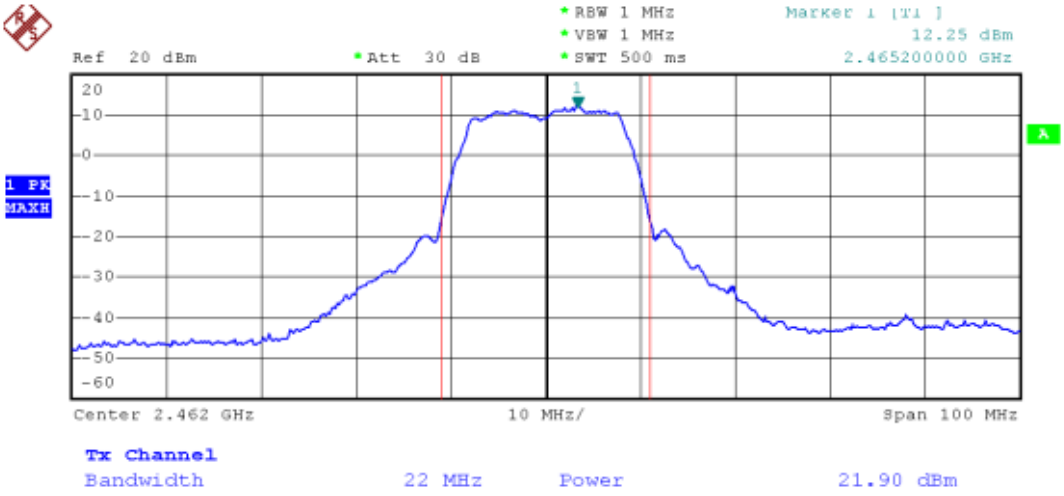
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



Test Item	Maximum Peak Output Power
Test Mode	Mode 3: Transmit by 802.11n（20MHz）(An0 and An1)
Test Date	2010-07-22

An0:

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit (dBm)	Result
01	2412	18.82	30 dBm	Pass
06	2437	23.90	30 dBm	Pass
11	2462	19.36	30 dBm	Pass

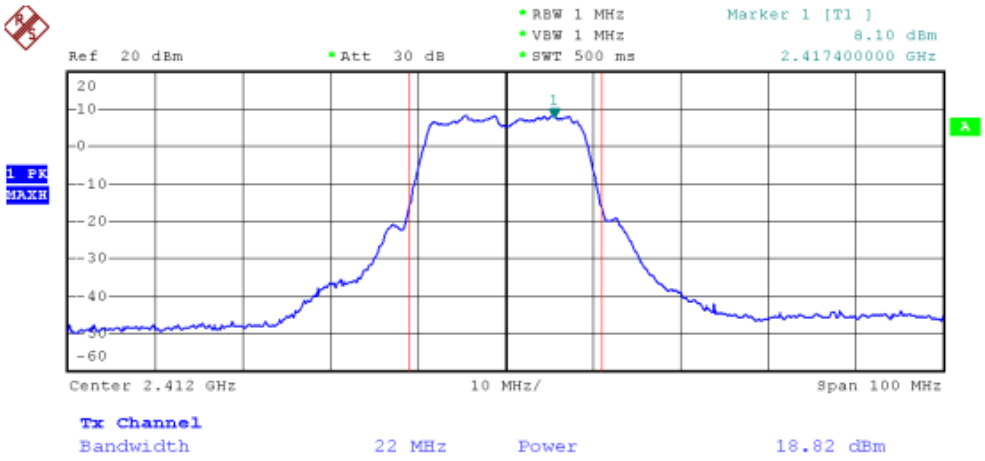
An1:

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit (dBm)	Result
01	2412	18.26	30 dBm	Pass
06	2437	25.31	30 dBm	Pass
11	2462	19.46	30 dBm	Pass

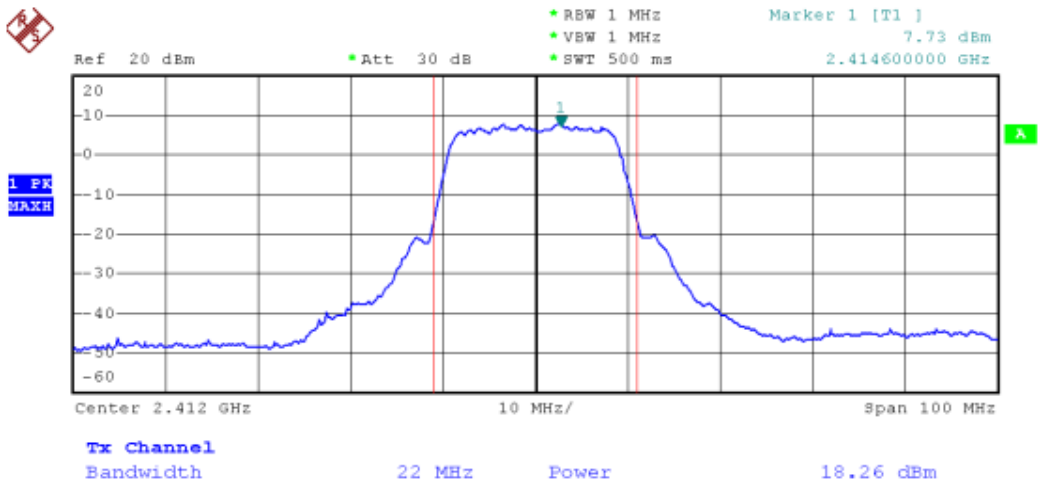
An0 and An1:

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit (dBm)	Result
01	2412	21.55	30 dBm	Pass
06	2437	27.67	30 dBm	Pass
11	2462	22.42	30 dBm	Pass

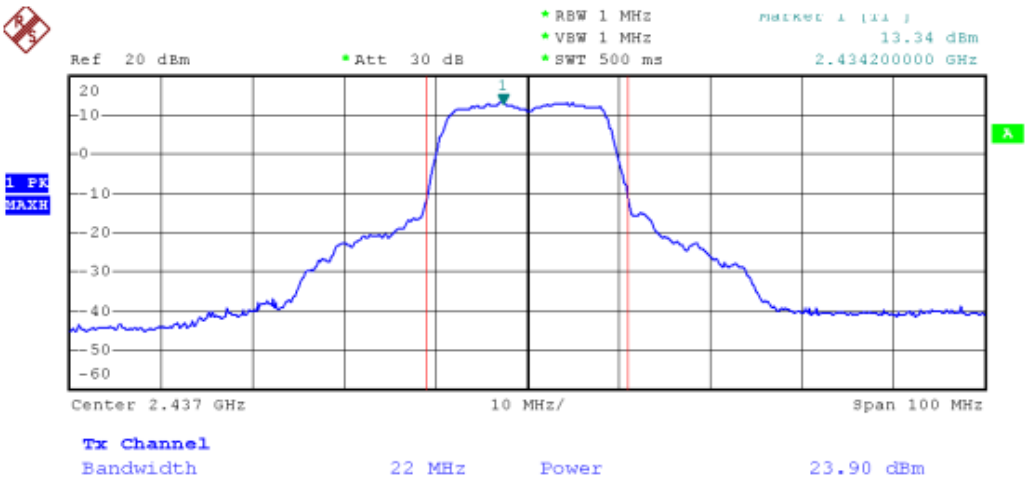
Channel 01 (2412MHz) (An0)



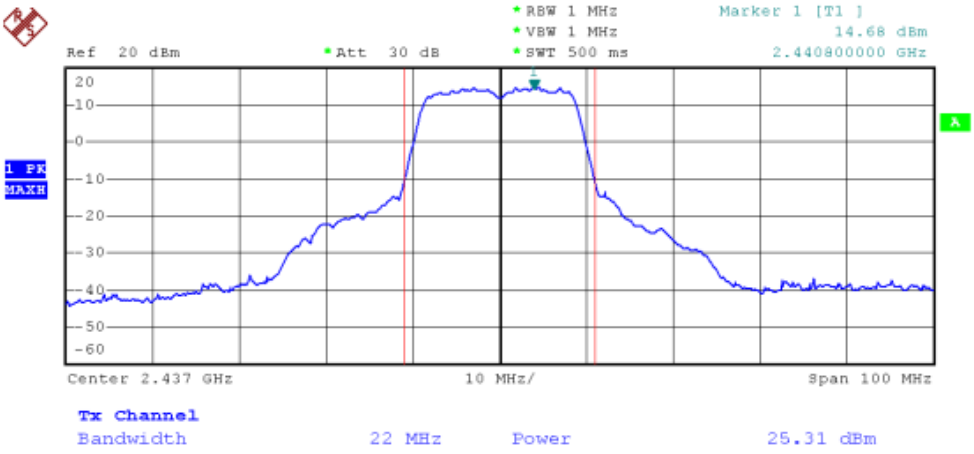
Channel 01 (2412MHz) (An1)



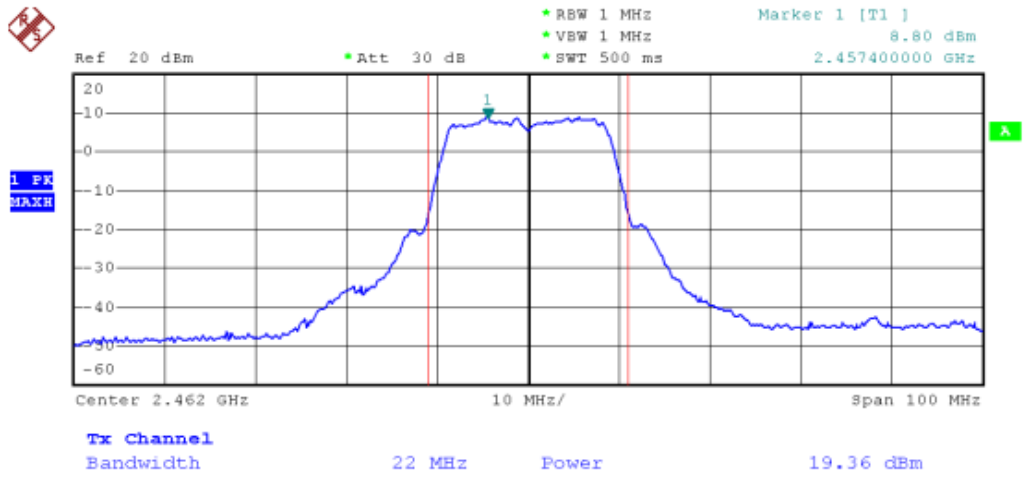
Channel 06 (2437MHz) (An0)



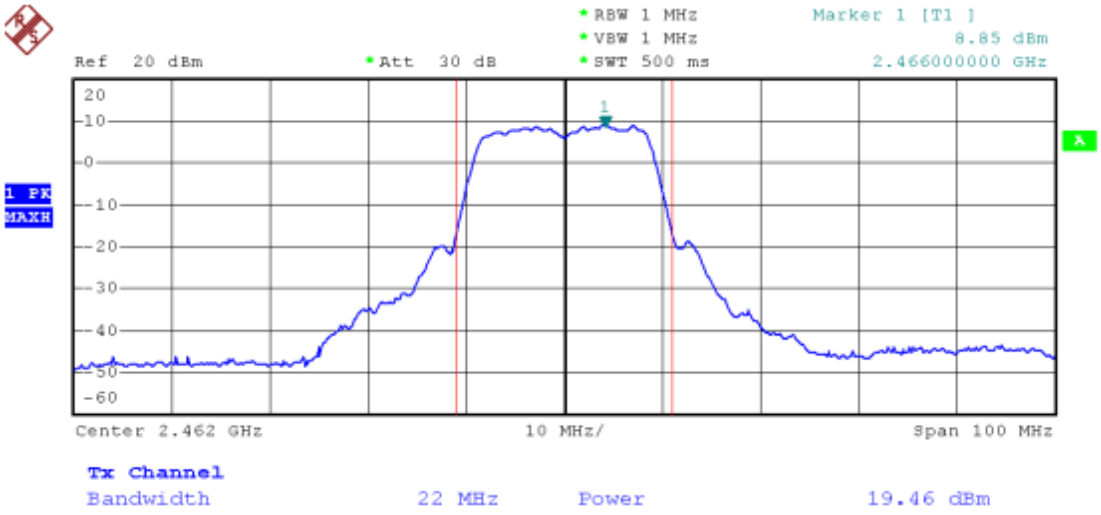
Channel 06 (2437MHz) (An1)



Channel 11 (2462MHz) (An0)



Channel 11 (2462MHz) (An1)



Test Item	Maximum Peak Output Power
Test Mode	Mode 4: Transmit by 802.11 n（40MHz）(An0 and An1)
Test Date	2010-07-22

An0:

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit (dBm)	Result
03	2422	18.46	30 dBm	Pass
06	2437	19.25	30 dBm	Pass
09	2452	17.70	30 dBm	Pass

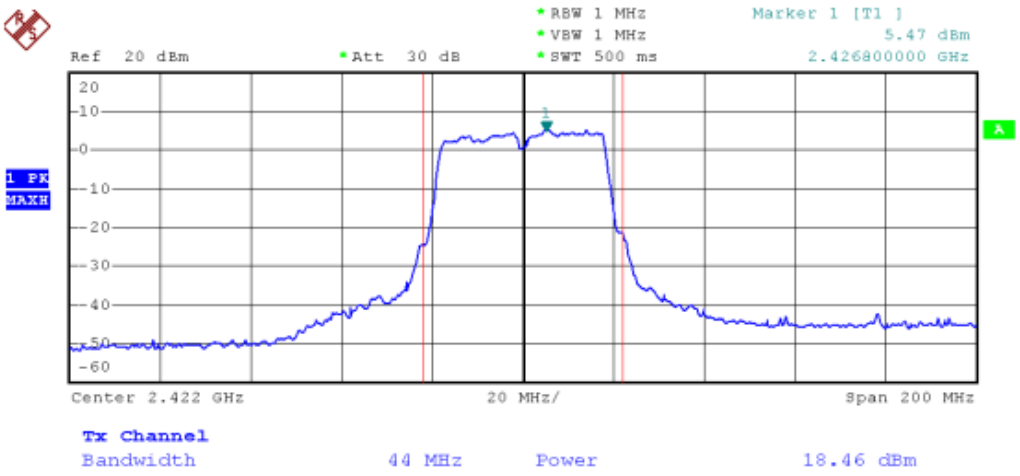
An1:

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit (dBm)	Result
03	2422	19.91	30 dBm	Pass
06	2437	20.21	30 dBm	Pass
09	2452	17.43	30 dBm	Pass

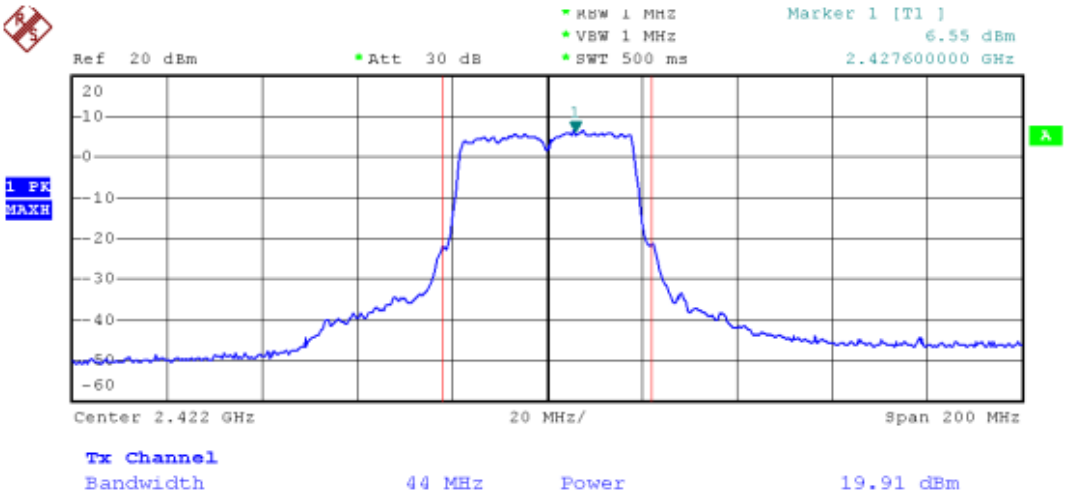
An0 and An1:

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit (dBm)	Result
03	2422	21.97	30 dBm	Pass
06	2437	22.77	30 dBm	Pass
09	2452	20.58	30 dBm	Pass

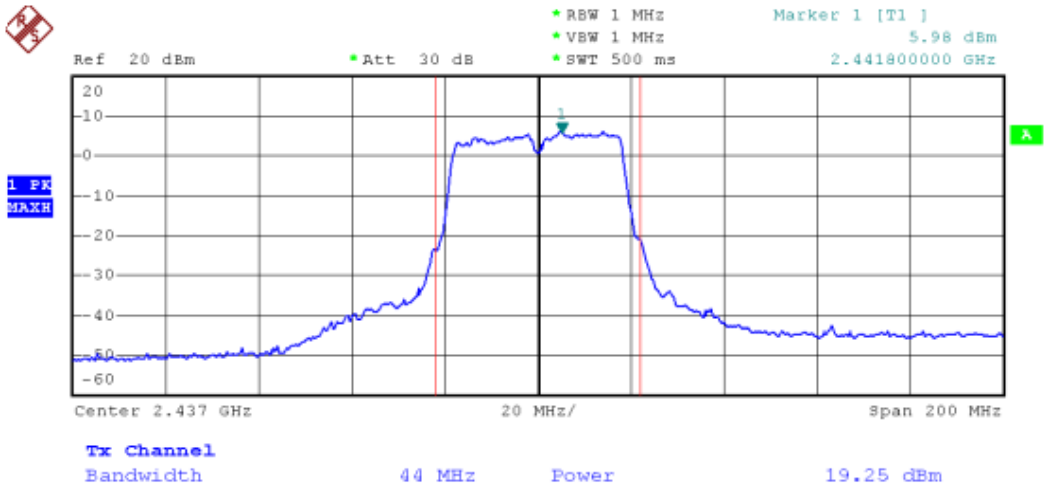
Channel 03 (2422MHz) (An0)



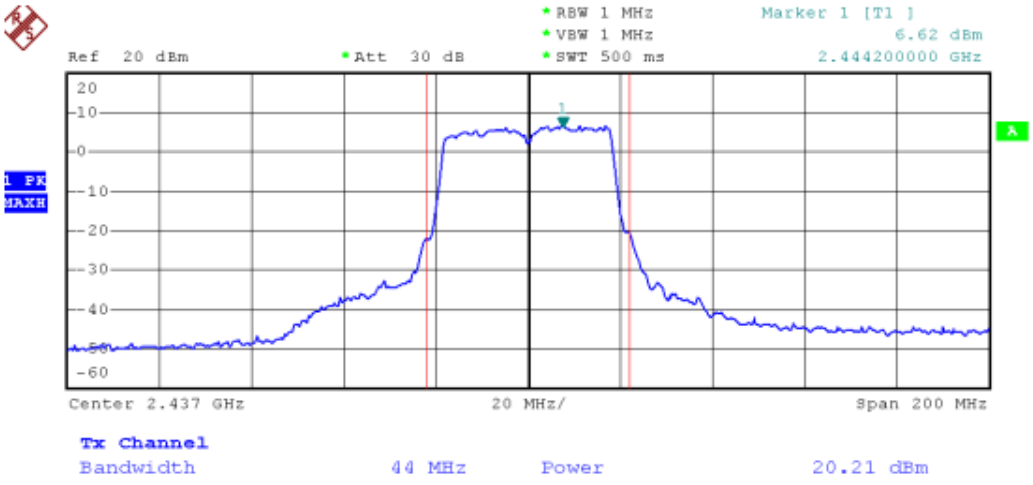
Channel 03 (2422MHz) (An1)



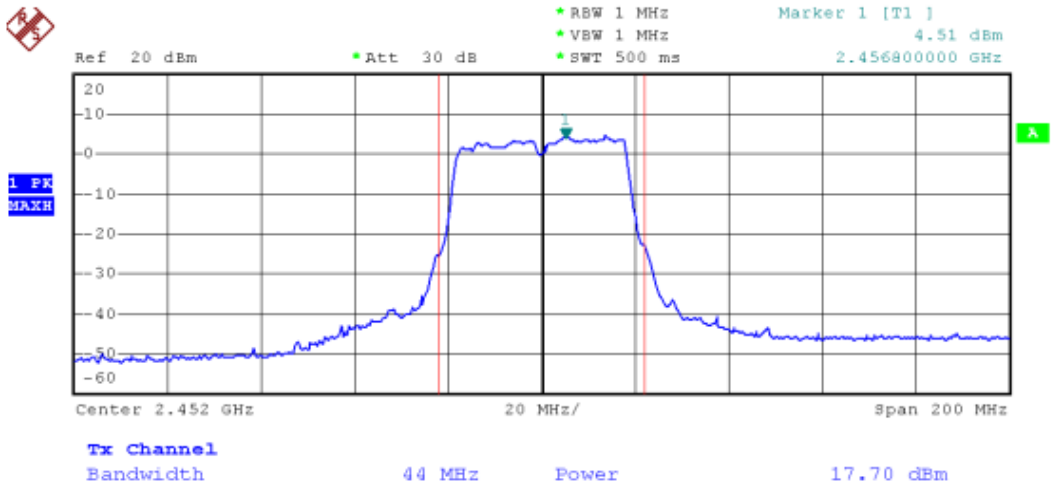
Channel 06 (2437MHz) (An0)



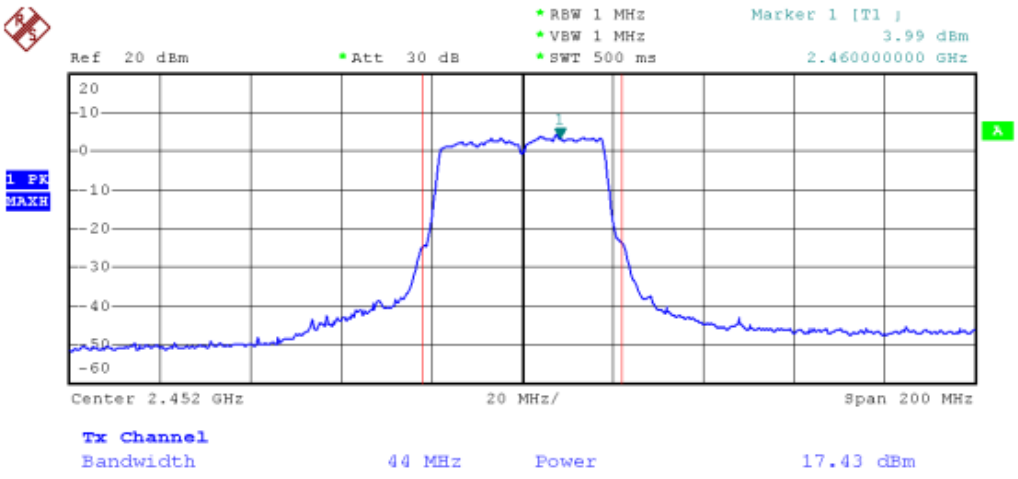
Channel 06 (2437MHz) (An1)



Channel 09 (2452MHz) (An0)



Channel 09 (2452MHz) (An1)



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.

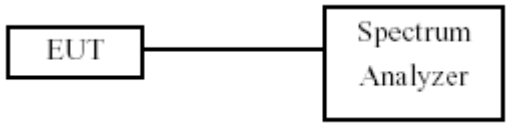
For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

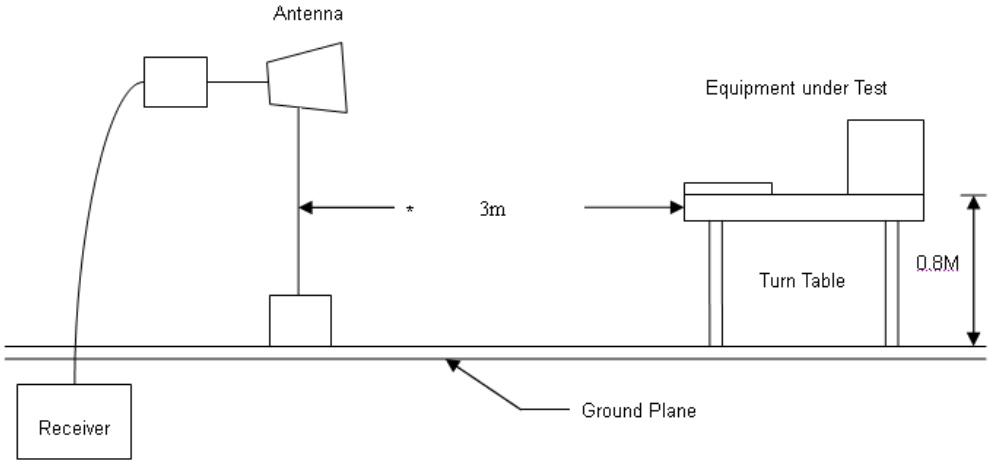
For measurements above 1GHz the resolution bandwidth is set to 1MHz, then the video bandwidth is set to 1MHz for peak measurements and 10Hz for average measurements.

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



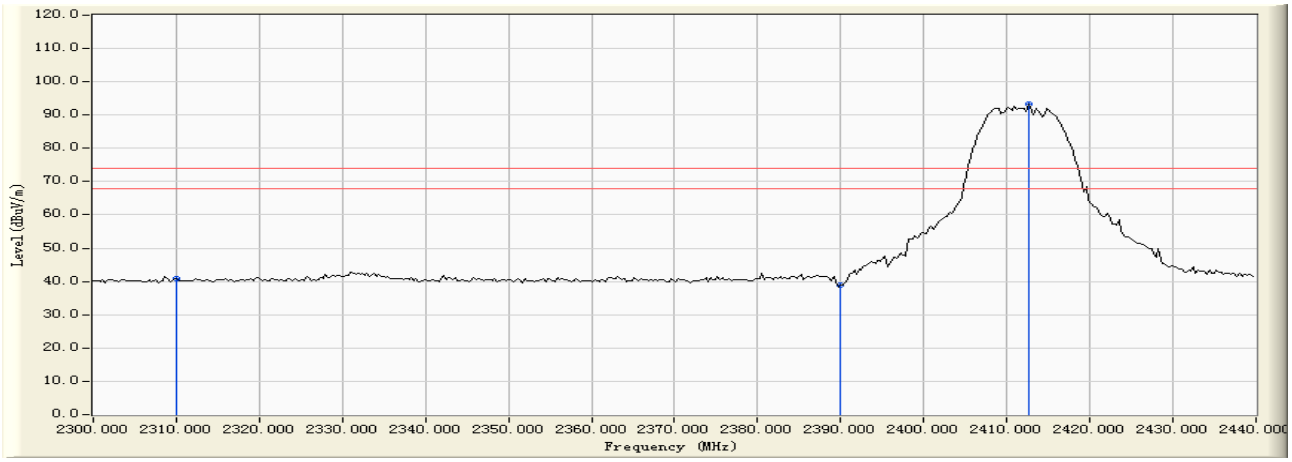


7.4. Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date
Spectrum Analyzer	R&S	FSP40	100324	2009.11.02
H64 Amplifier	HP	8447F	3113A05582	2009.12.01
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	2009.10.19

7.5. Test Result and Data

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/07/19 - 14:02**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2412MHz)**

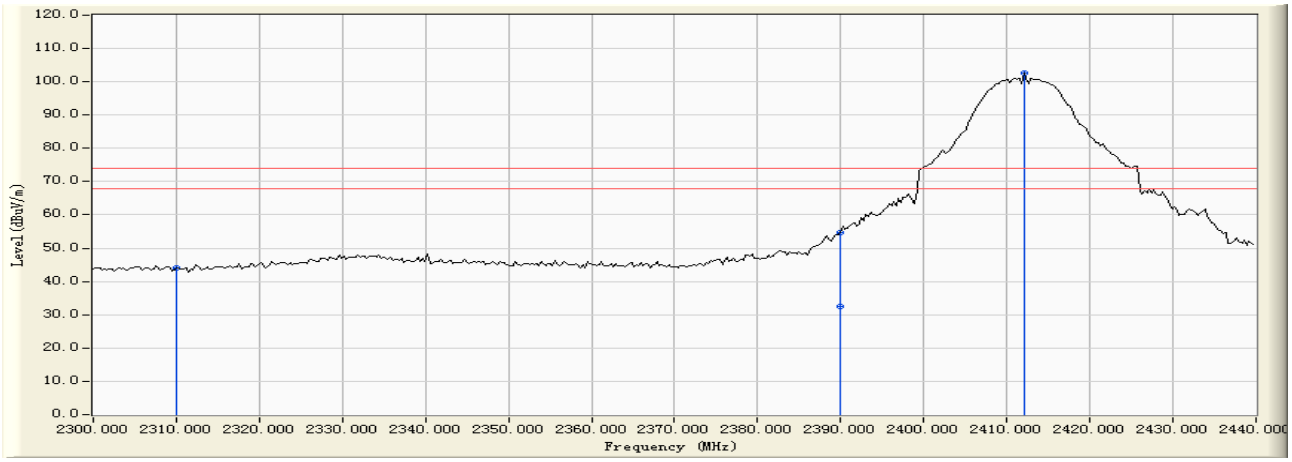


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-10.012	50.980	40.968	-33.032	74.000	PEAK
2		2390.000	-10.041	49.074	39.034	-34.966	74.000	PEAK
3	*	2412.615	-10.017	103.289	93.273	N/A	N/A	PEAK

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 : Fred	
Site : EMC Lab AC 102	**Time : 2010/07/19 - 13:54**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2412MHz)**

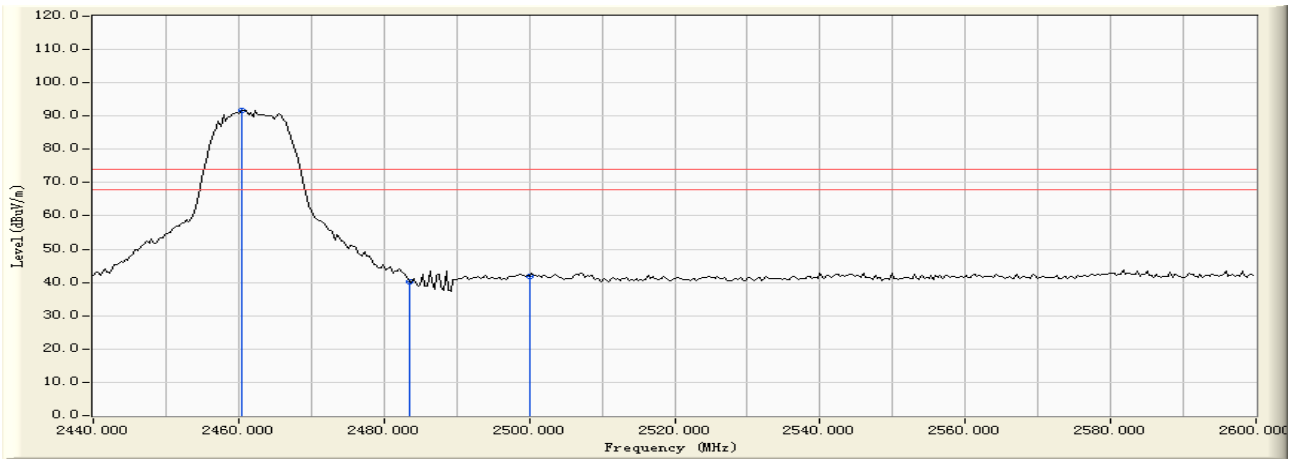


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-10.012	53.992	43.980	-30.020	74.000	PEAK
2		2390.000	-10.041	64.783	54.743	-19.257	74.000	PEAK
3		2390.000	-10.041	42.610	32.570	-21.430	54.000	AVERAGE
4	*	2412.056	-10.017	112.587	102.570	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 : Fred	
Site : EMC Lab AC 102	**Time : 2010/07/19 - 14:06**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2462MHz)**

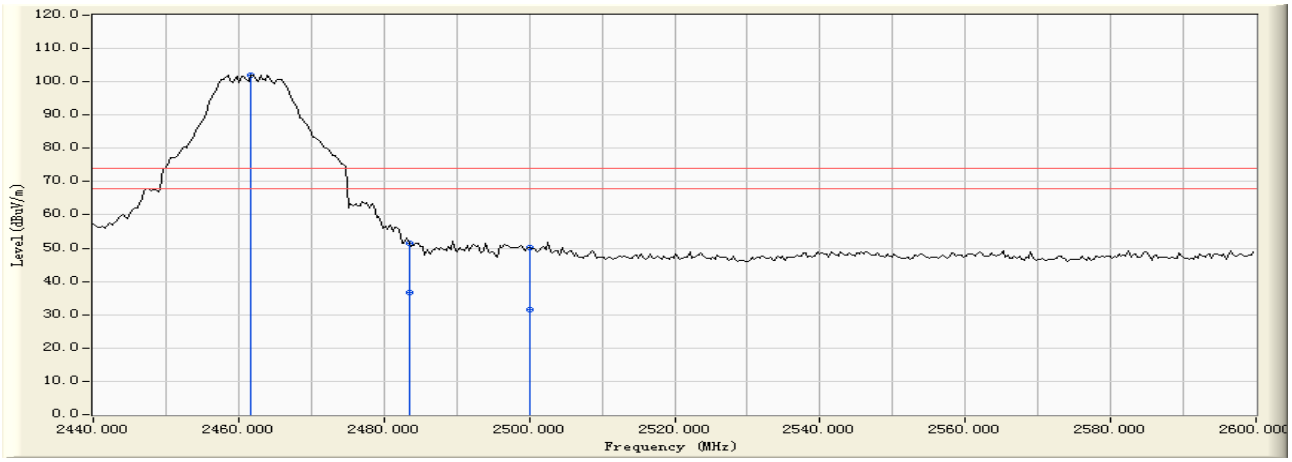


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2460.439	-9.913	101.721	91.809	N/A	N/A	PEAK
2		2483.500	-9.856	50.137	40.281	-33.719	74.000	PEAK
3		2500.000	-9.810	51.675	41.865	-32.135	74.000	PEAK

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 : Fred	
Site : EMC Lab AC 102	**Time : 2010/07/19 - 14:09**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2462MHz)**

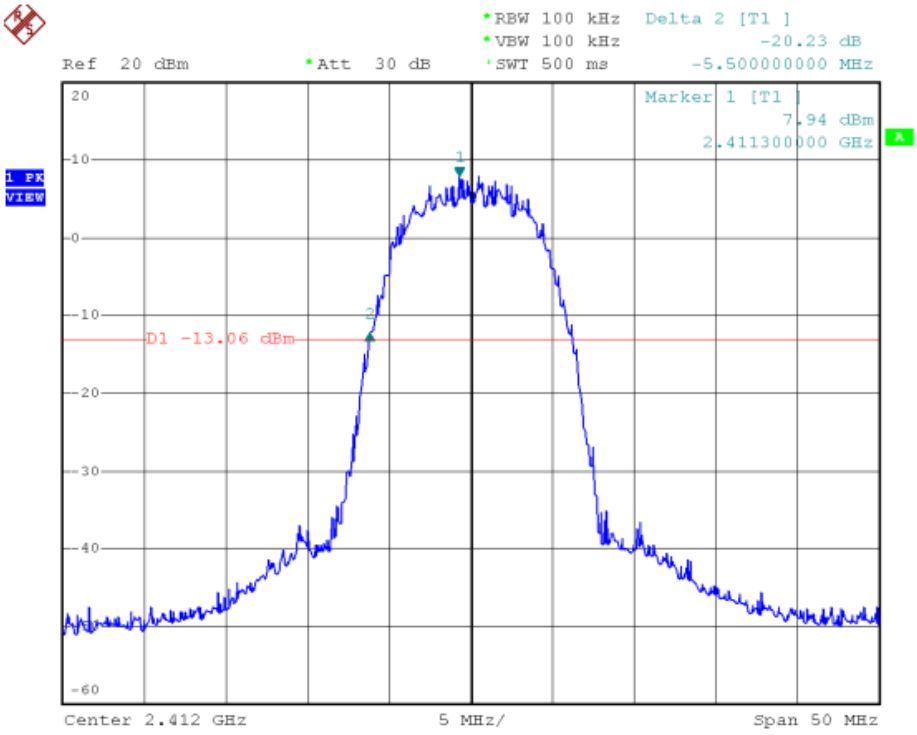


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.717	-9.910	111.747	101.837	N/A	N/A	PEAK
2		2483.500	-9.856	61.213	51.357	-22.643	74.000	PEAK
3		2483.500	-9.856	46.510	36.654	-17.346	54.000	AVERAGE
4		2500.000	-9.810	59.837	50.027	-23.973	74.000	PEAK
5		2500.000	-9.810	41.390	31.580	-22.420	54.000	AVERAGE

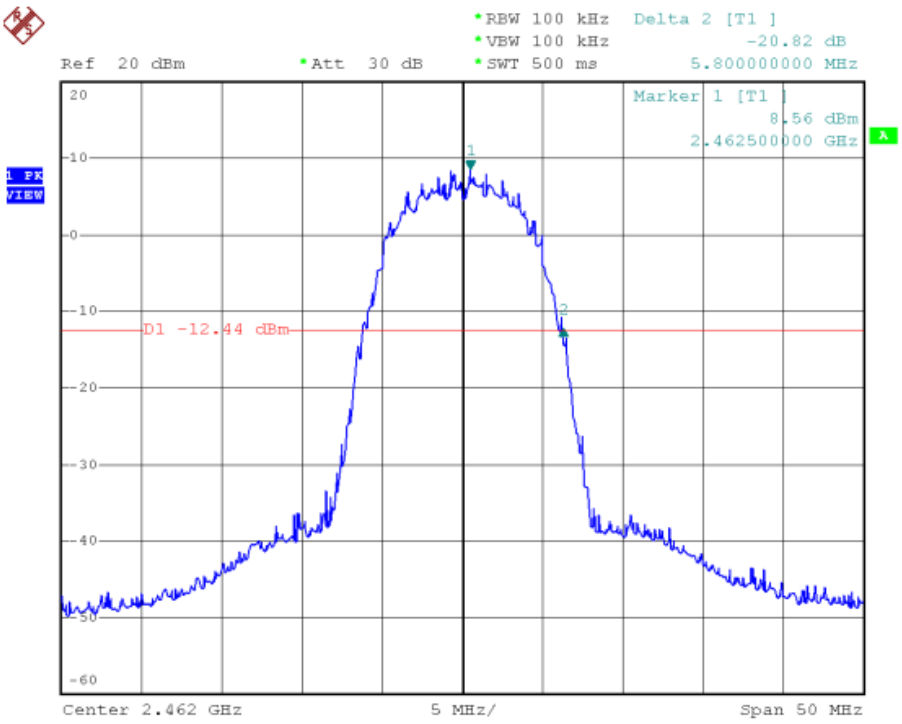
Note:

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

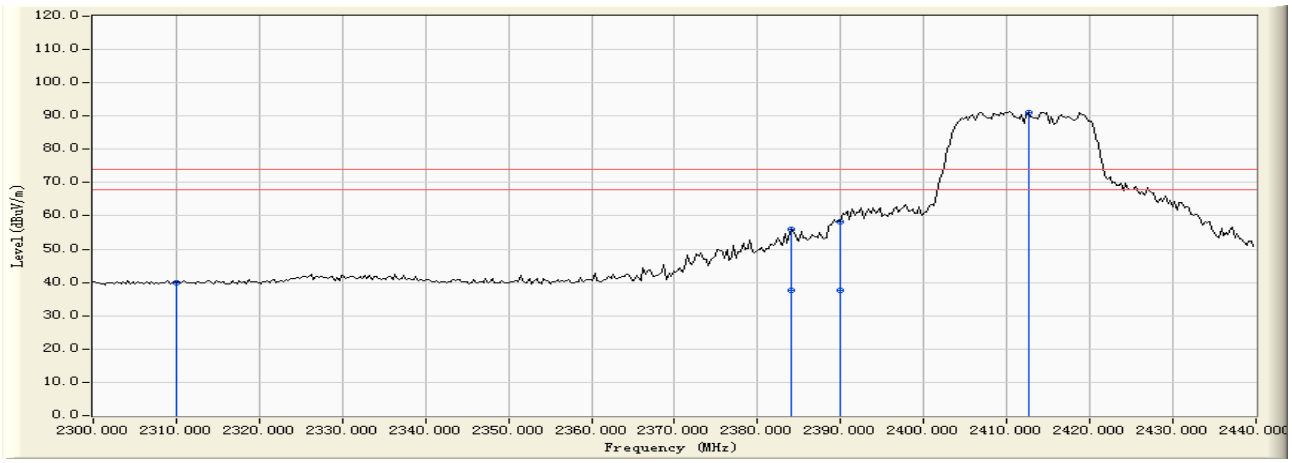
Band Edge (20dBc RF Conducted Measurement)
Mode 1: Transmit by 802.11b (An0) (2412MHz)



Band Edge (20dBc RF Conducted Measurement)
Mode 1: Transmit by 802.11b (An0) (2462MHz)



Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/07/19 - 14:45**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC120V/60Hz	**Note : Mode 2: Transmit by 802.11g (An0) (2412MHz)**

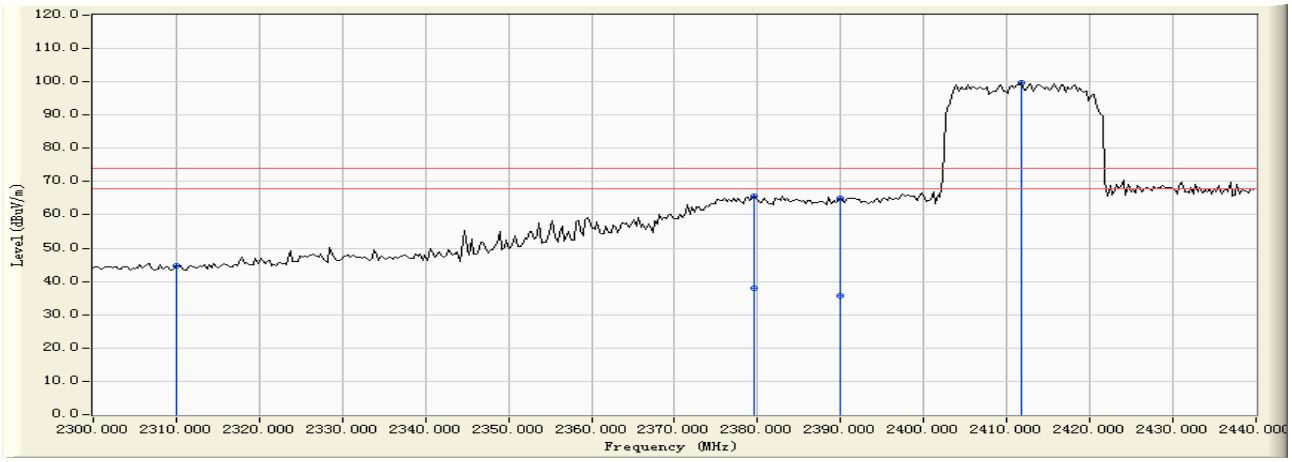


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-10.012	49.910	39.898	-34.102	74.000	PEAK
2		2384.112	-10.035	66.112	56.078	-17.922	74.000	PEAK
3		2384.112	-10.035	47.830	37.796	-16.204	54.000	AVERAGE
4		2390.000	-10.041	68.430	58.390	-15.610	74.000	PEAK
5		2390.000	-10.041	47.610	37.570	-16.430	54.000	AVERAGE
6	*	2412.615	-10.017	101.054	91.038	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 : Fred	
Site : EMC Lab AC 102	**Time : 2010/07/19 - 14:43**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC120V/60Hz	**Note : Mode 2: Transmit by 802.11g (An0) (2412MHz)**

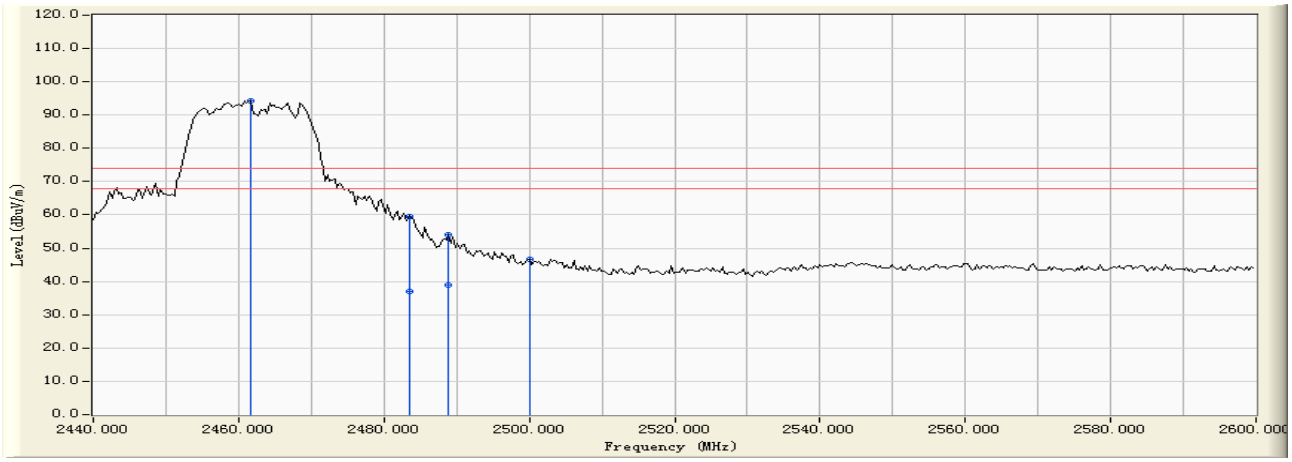


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-10.012	54.584	44.572	-29.428	74.000	PEAK
2		2379.641	-10.036	75.600	65.565	-8.435	74.000	PEAK
3		2379.641	-10.036	47.940	37.905	-16.095	54.000	AVERAGE
4		2390.000	-10.041	75.038	64.998	-9.002	74.000	PEAK
5		2390.000	-10.041	45.610	35.570	-18.430	54.000	AVERAGE
6	*	2411.776	-10.017	109.661	99.644	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 : Fred	
Site : EMC Lab AC 102	**Time : 2010/07/19 - 14:47**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC120V/60Hz	**Note : Mode 2: Transmit by 802.11g (An0) (2462MHz)**

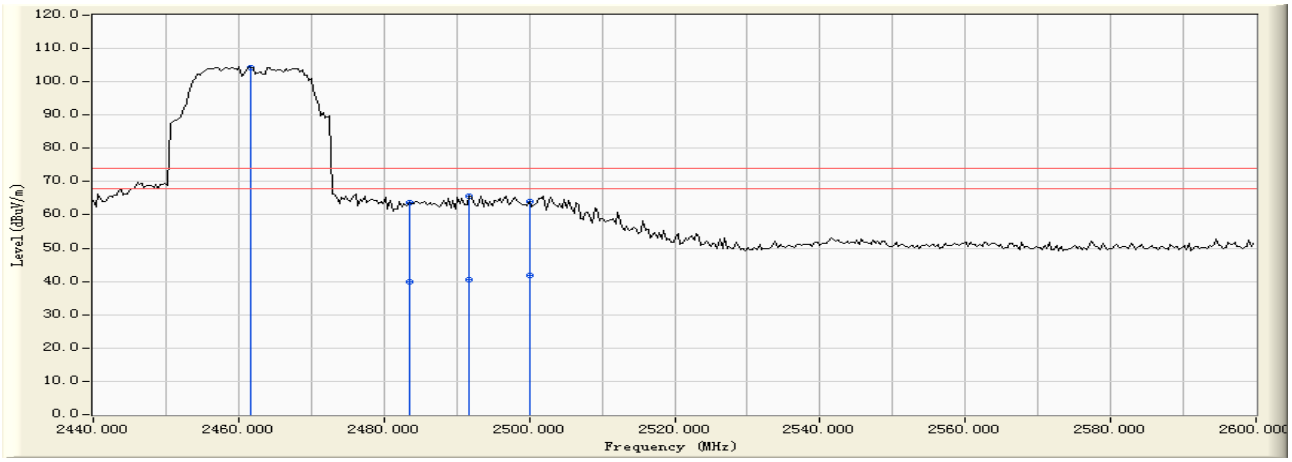


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.717	-9.910	104.204	94.294	N/A	N/A	PEAK
2		2483.500	-9.856	69.479	59.623	-14.377	74.000	PEAK
3		2483.500	-9.856	46.840	36.984	-17.016	54.000	AVERAGE
4		2488.862	-9.846	63.744	53.898	-20.102	74.000	PEAK
5		2488.862	-9.846	48.613	38.767	-15.233	54.000	AVERAGE
6		2500.000	-9.810	56.431	46.621	-27.379	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 : Fred	
Site : EMC Lab AC 102	**Time : 2010/07/19 - 14:48**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC120V/60Hz	**Note : Mode 2: Transmit by 802.11g (An0) (2462MHz)**

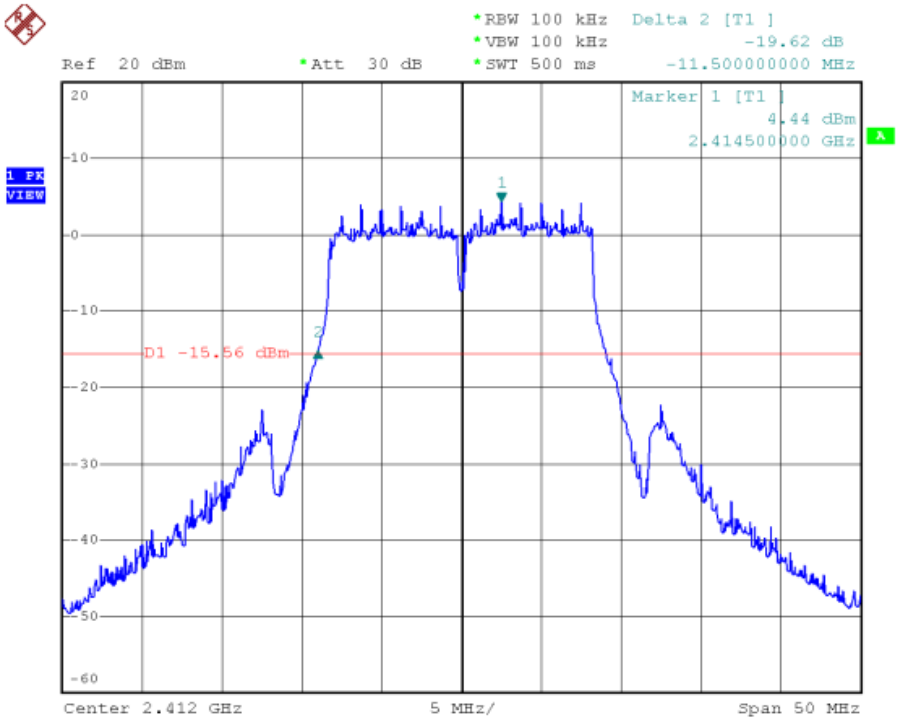


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.717	-9.910	114.264	104.354	N/A	N/A	PEAK
2		2483.500	-9.856	73.602	63.746	-10.254	74.000	PEAK
3		2483.500	-9.856	49.670	39.814	-14.186	54.000	AVERAGE
4		2491.737	-9.837	75.410	65.573	-8.427	74.000	PEAK
5		2491.737	-9.837	50.420	40.583	-13.417	54.000	AVERAGE
6		2500.000	-9.810	73.774	63.964	-10.036	74.000	PEAK
7		2500.000	-9.810	51.620	41.810	-12.190	54.000	AVERAGE

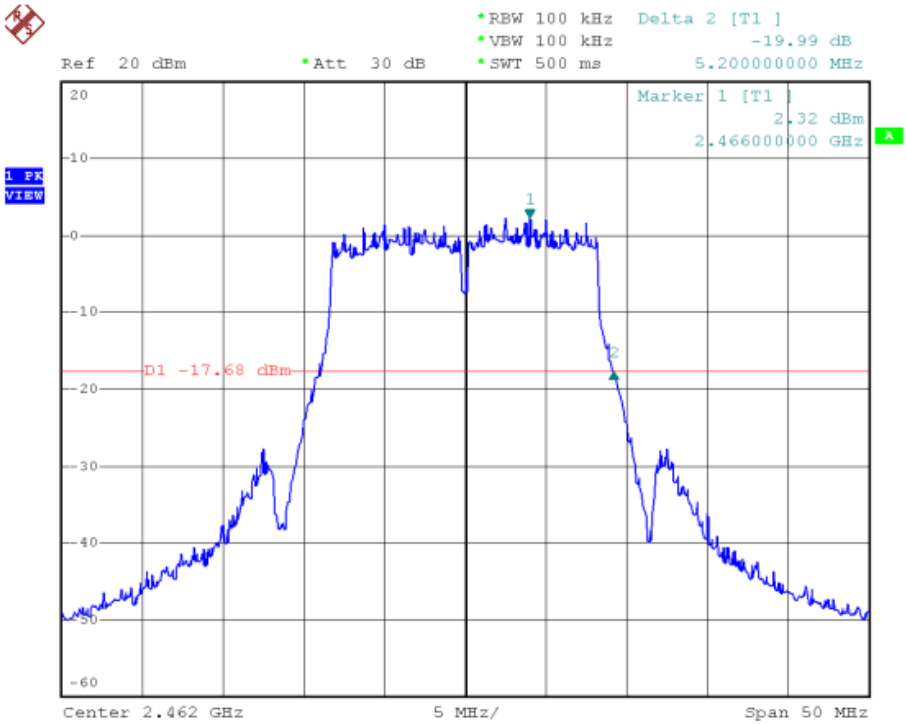
Note:

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

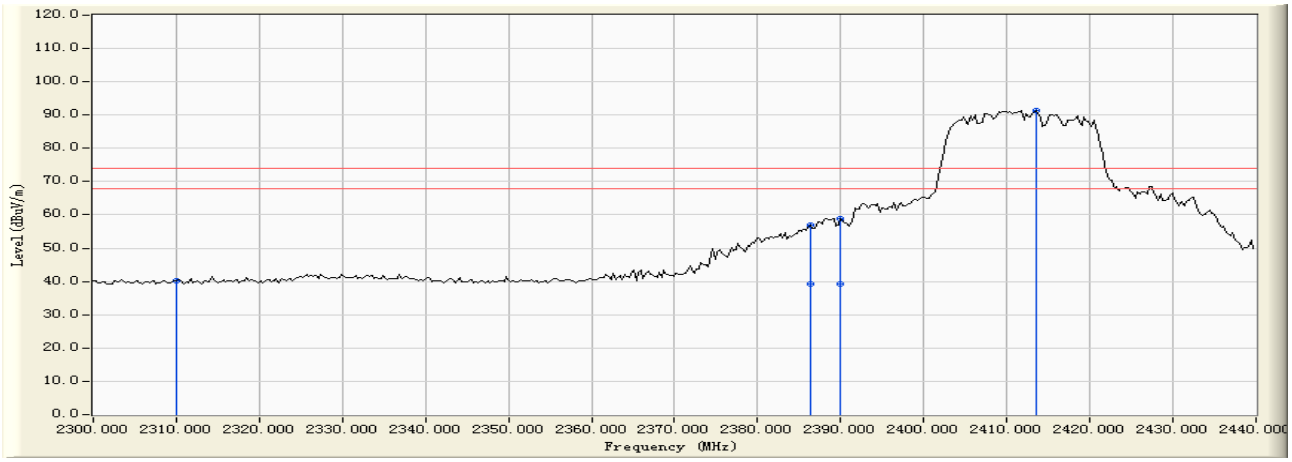
Band Edge (20dBc RF Conducted Measurement)
Mode 2: Transmit by 802.11g (An0) (2412MHz)



Band Edge (20dBc RF Conducted Measurement)
Mode 2: Transmit by 802.11g (An0) (2462MHz)



Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/07/19 - 14:52**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC120V/60Hz	**Note : Mode 3: Transmit by 802.11n(20MHz) (An0 and An1) (2412MHz)**

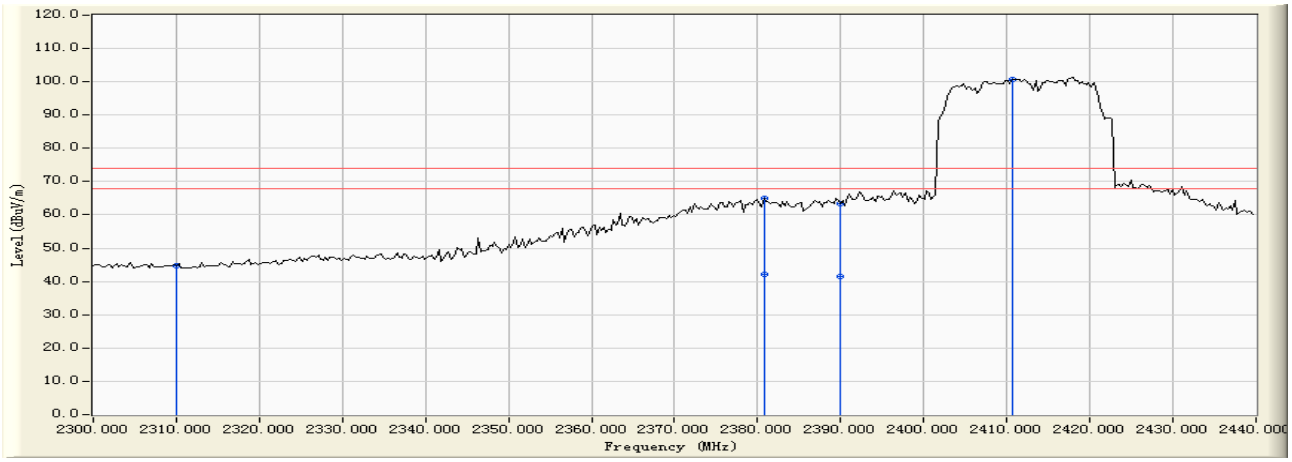


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-10.012	50.182	40.170	-33.830	74.000	PEAK
2		2386.347	-10.036	67.127	57.090	-16.910	74.000	PEAK
3		2386.347	-10.036	49.310	39.273	-14.727	54.000	AVERAGE
4		2390.000	-10.041	68.991	58.951	-15.049	74.000	PEAK
5		2390.000	-10.041	49.340	39.300	-14.700	54.000	AVERAGE
6	*	2413.453	-10.016	101.415	91.399	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 : Fred	
Site : EMC Lab AC 102	**Time : 2010/07/19 - 14:51**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC120V/60Hz	**Note : Mode 3: Transmit by 802.11n(20MHz) (An0 and An1) (2412MHz)**

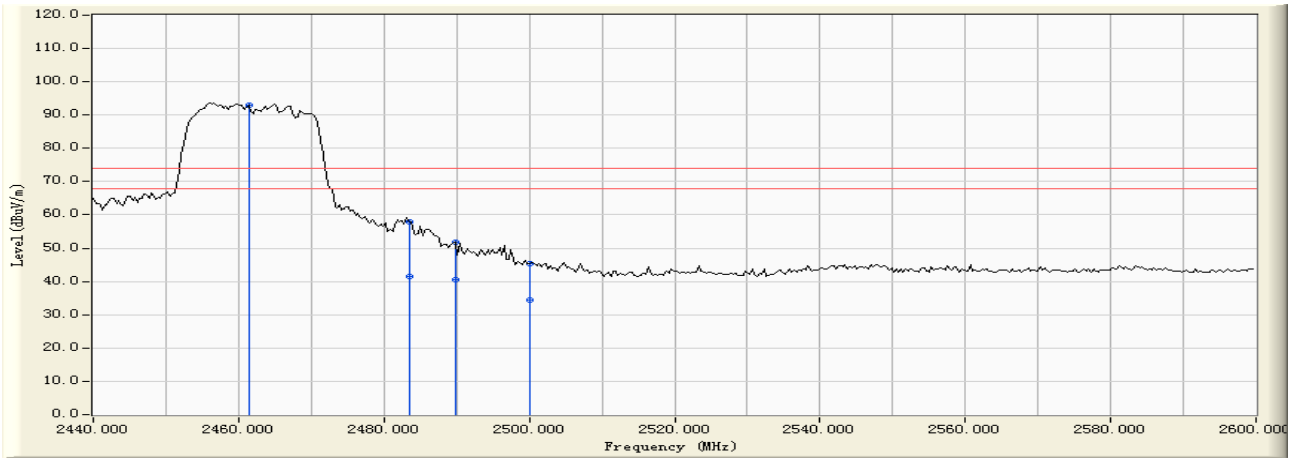


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-10.012	54.745	44.733	-29.267	74.000	PEAK
2		2380.759	-10.035	75.001	64.966	-9.034	74.000	PEAK
3		2380.759	-10.035	52.160	42.125	-11.875	54.000	AVERAGE
4		2390.000	-10.041	73.564	63.524	-10.476	74.000	PEAK
5		2390.000	-10.041	51.420	41.380	-12.620	54.000	AVERAGE
6	*	2410.659	-10.017	110.818	100.800	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 : Fred	
Site : EMC Lab AC 102	**Time : 2010/07/19 - 14:55**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC120V/60Hz	**Note : Mode 3: Transmit by 802.11n(20MHz) (An0 and An1) (2462MHz)**

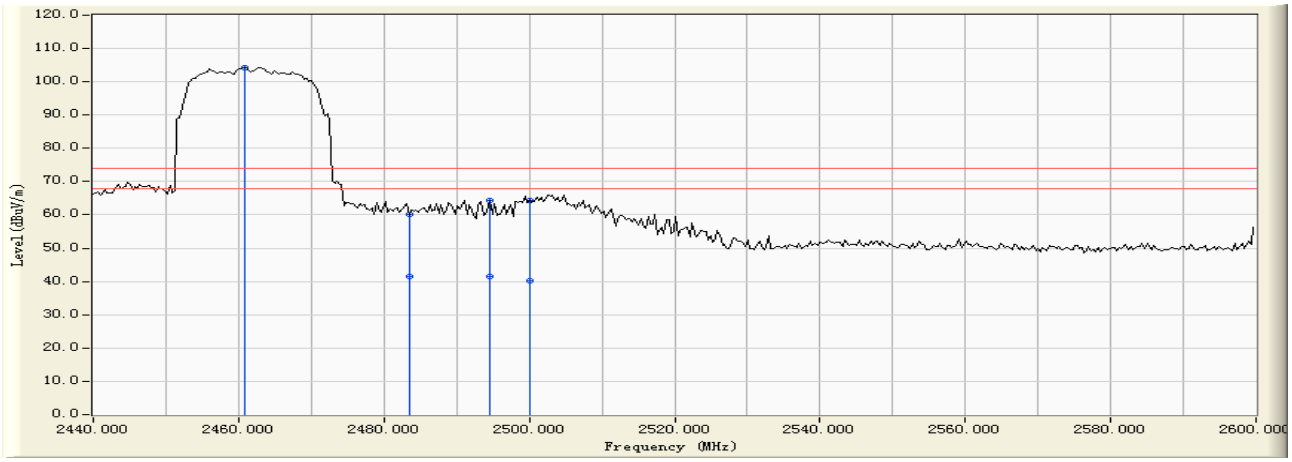


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.397	-9.911	102.830	92.920	N/A	N/A	PEAK
2		2483.500	-9.856	67.742	57.886	-16.114	74.000	PEAK
3		2483.500	-9.856	51.340	41.484	-12.516	54.000	AVERAGE
4		2489.820	-9.843	61.634	51.791	-22.209	74.000	PEAK
5		2489.820	-9.843	50.320	40.477	-13.523	54.000	AVERAGE
6		2500.000	-9.810	55.166	45.356	-28.644	74.000	PEAK
7		2500.000	-9.810	44.290	34.480	-19.520	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

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/07/19 - 14:56**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC120V/60Hz	**Note : Mode 3: Transmit by 802.11n(20MHz) (An0 and An1) (2462MHz)**

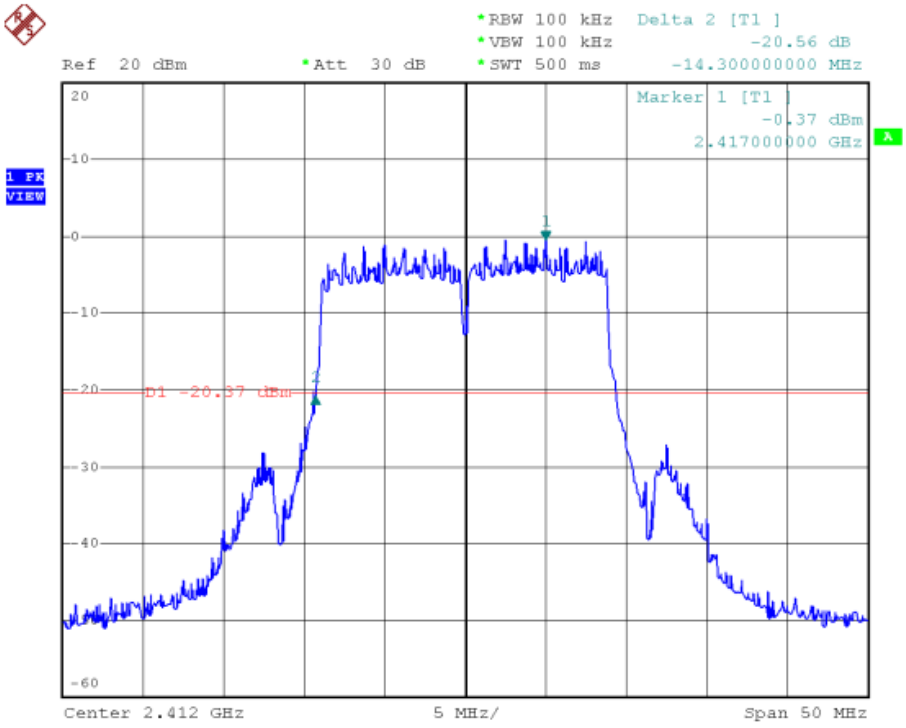


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2460.759	-9.912	114.197	104.285	N/A	N/A	PEAK
2		2483.500	-9.856	69.886	60.030	-13.970	74.000	PEAK
3		2483.500	-9.856	51.360	41.504	-12.496	54.000	AVERAGE
4		2494.611	-9.828	74.327	64.498	-9.502	74.000	PEAK
5		2494.611	-9.828	51.280	41.451	-12.549	54.000	AVERAGE
6		2500.000	-9.810	74.232	64.422	-9.578	74.000	PEAK
7		2500.000	-9.810	50.180	40.370	-13.630	54.000	AVERAGE

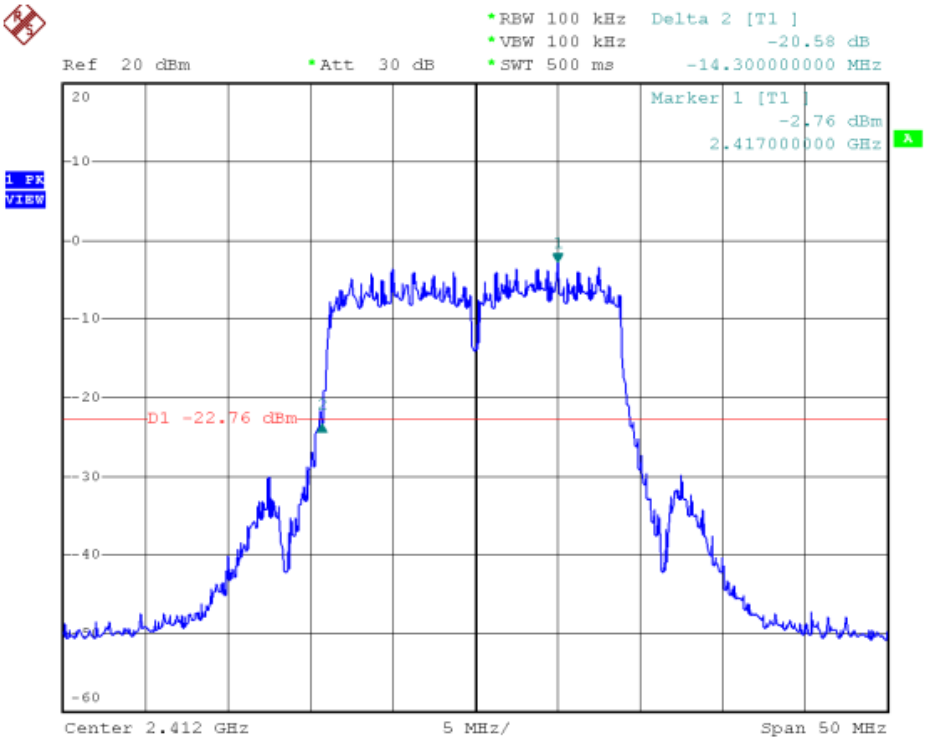
Note:

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

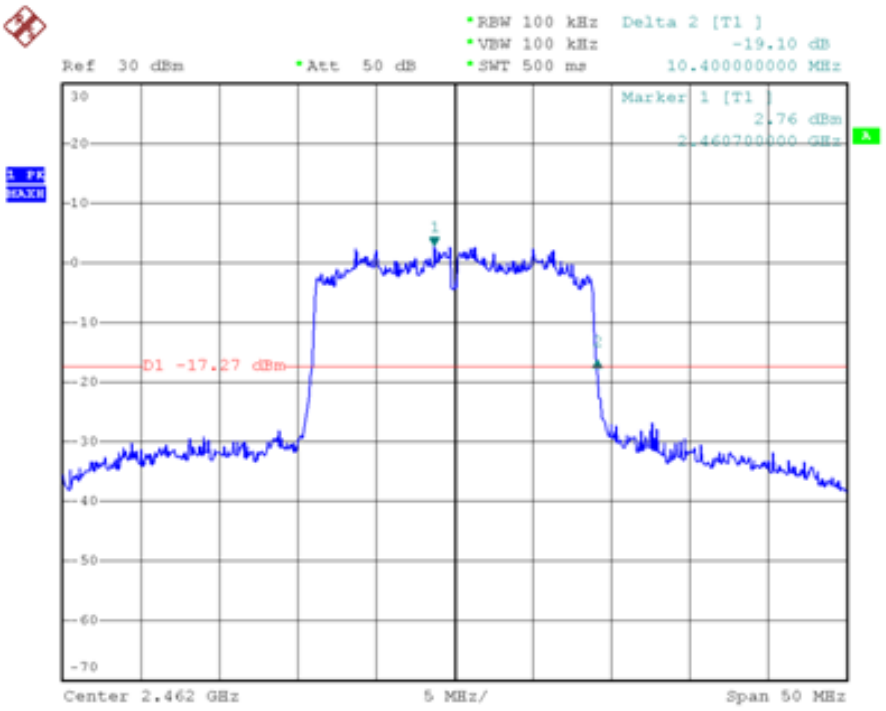
Band Edge (20dBc RF Conducted Measurement)
Mode 3: Transmit by 802.11n（20MHz）(An0) (2412MHz)



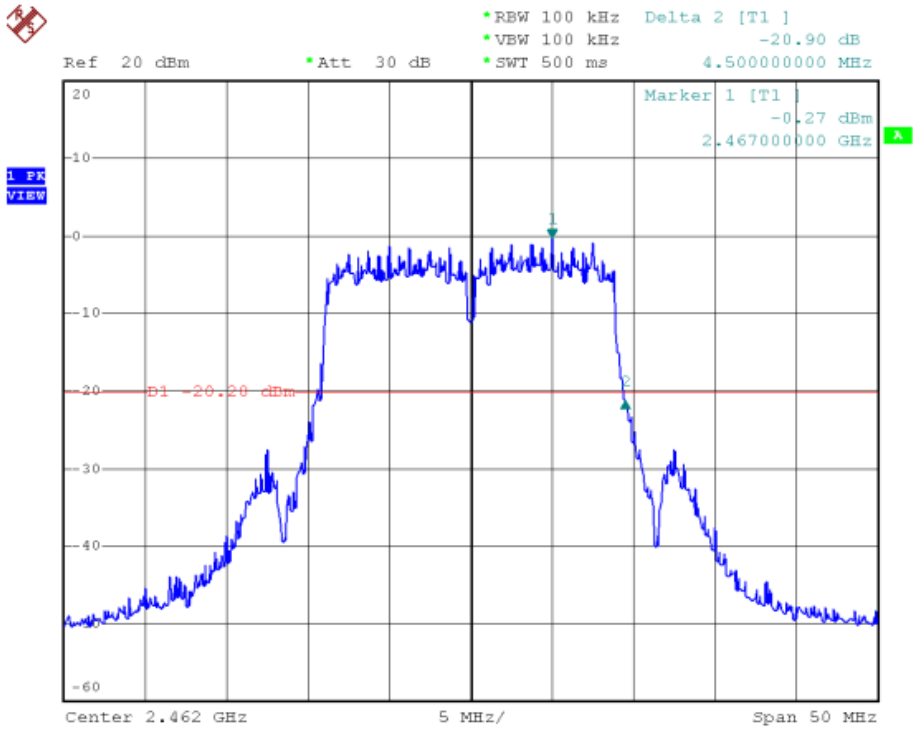
Band Edge (20dBc RF Conducted Measurement)
Mode 3: Transmit by 802.11n（20MHz）(An1) (2412MHz)



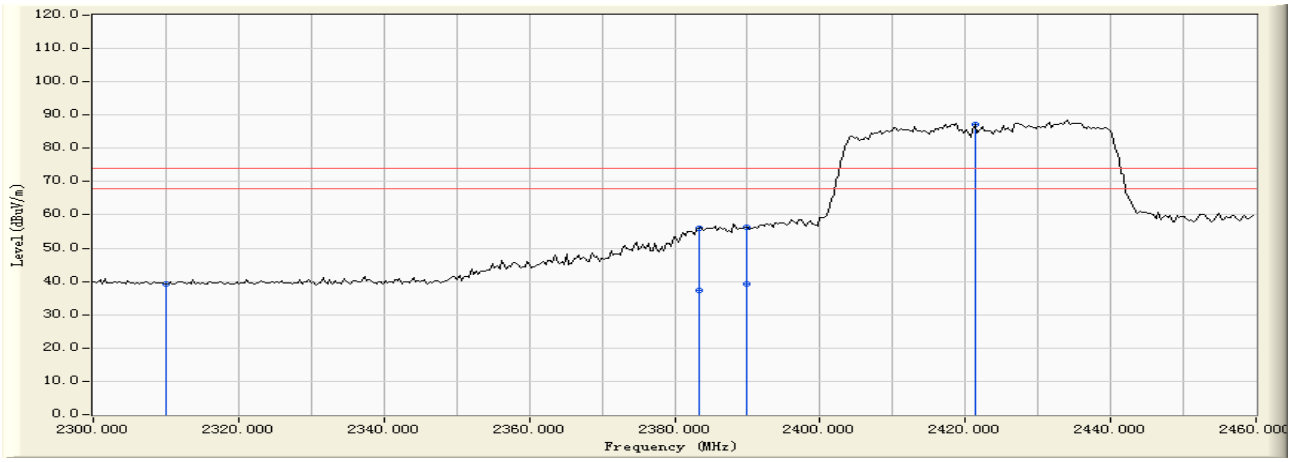
Band Edge (20dBc RF Conducted Measurement)
Mode 3: Transmit by 802.11n（20MHz）(An0) (2462MHz)



Band Edge (20dBc RF Conducted Measurement)
Mode 3: Transmit by 802.11n（20MHz）(An1) (2462MHz)



Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/07/19 - 14:59**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC120V/60Hz	**Note : Mode 4: Transmit by 802.11n(40MHz) (An0 and An1) (2422MHz)**

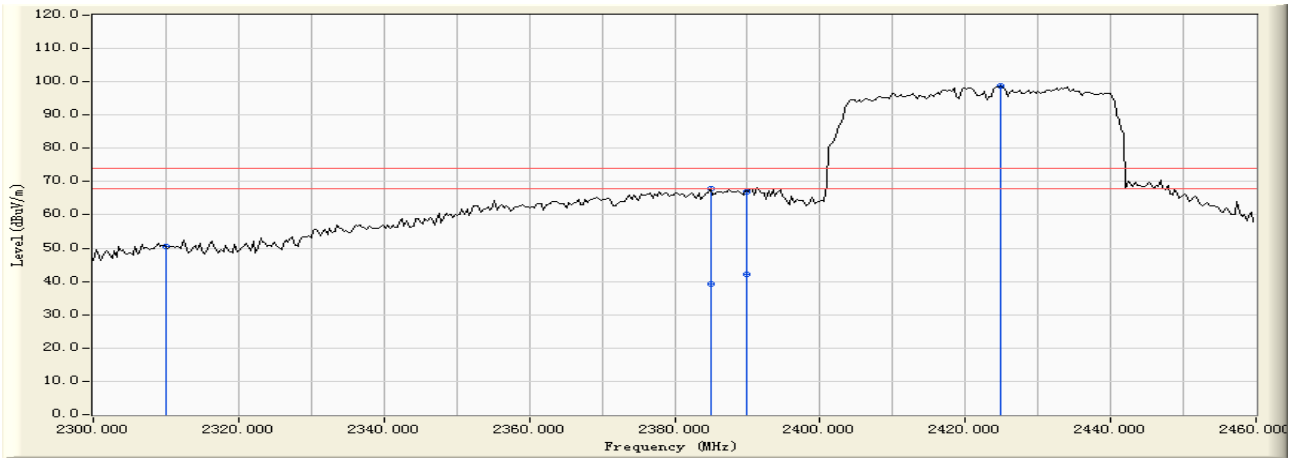


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-10.012	49.229	39.217	-34.783	74.000	PEAK
2		2383.353	-10.034	65.973	55.938	-18.062	74.000	PEAK
3		2383.353	-10.034	47.390	37.355	-16.645	54.000	AVERAGE
4		2390.000	-10.041	66.260	56.220	-17.780	74.000	PEAK
5		2390.000	-10.041	49.160	39.120	-14.880	54.000	AVERAGE
6	*	2421.357	-10.005	97.175	87.170	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 : Fred	
Site : EMC Lab AC 102	**Time : 2010/07/19 - 14:58**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC120V/60Hz	**Note : Mode 4: Transmit by 802.11n(40MHz) (An0 and An1) (2422MHz)**

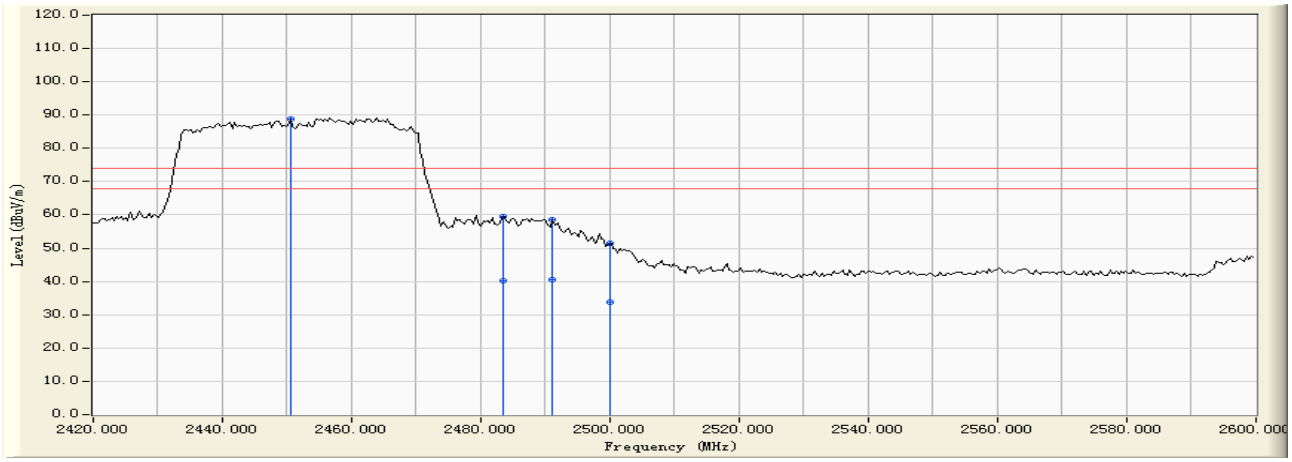


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-10.012	60.538	50.526	-23.474	74.000	PEAK
2		2384.950	-10.035	77.792	67.757	-6.243	74.000	PEAK
3		2384.950	-10.035	49.380	39.345	-14.655	54.000	AVERAGE
4		2390.000	-10.041	77.022	66.982	-7.018	74.000	PEAK
5		2390.000	-10.041	52.160	42.120	-11.880	54.000	AVERAGE
6	*	2424.870	-9.999	108.621	98.621	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 : Fred	
Site : EMC Lab AC 102	**Time : 2010/07/19 - 15:01**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC120V/60Hz	**Note : Mode 4: Transmit by 802.11n(40MHz) (An0 and An1) (2452MHz)**

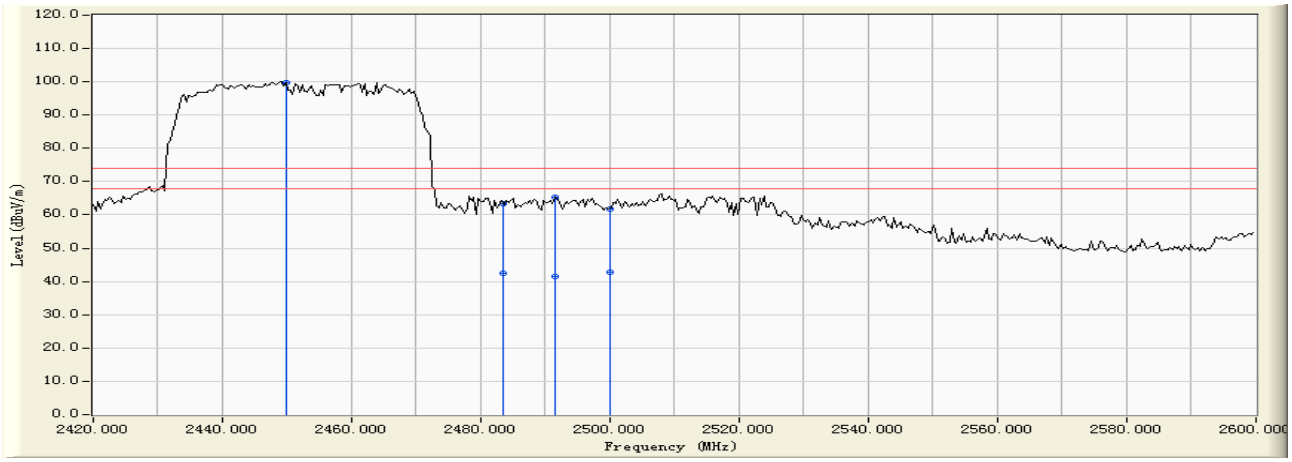


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2450.539	-9.938	98.635	88.697	N/A	N/A	PEAK
2		2483.500	-9.856	69.344	59.488	-14.512	74.000	PEAK
3		2483.500	-9.856	50.180	40.324	-13.676	54.000	AVERAGE
4		2491.138	-9.839	68.270	58.431	-15.569	74.000	PEAK
5		2491.138	-9.839	50.260	40.421	-13.579	54.000	AVERAGE
6		2500.000	-9.810	61.128	51.318	-22.682	74.000	PEAK
7		2500.000	-9.810	43.510	33.700	-20.300	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

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/07/19 - 15:03**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : 802.11n ADSL2+ 4-port WiFi Gateway	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC120V/60Hz	**Note : Mode 4: Transmit by 802.11n(40MHz) (An0 and An1) (2452MHz)**

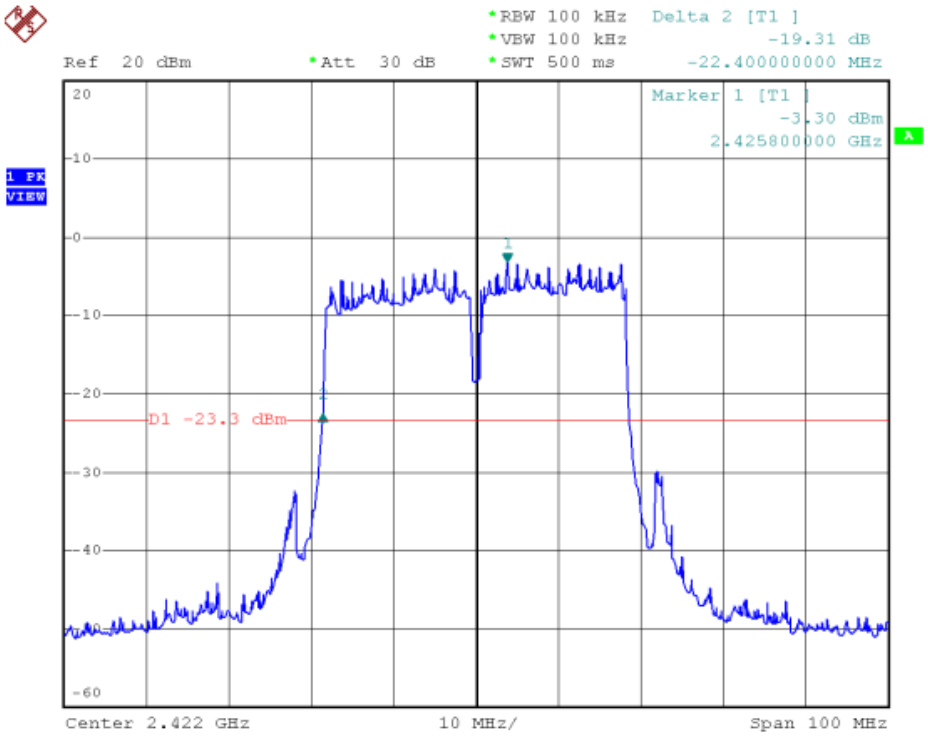


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2449.820	-9.941	109.818	99.877	N/A	N/A	PEAK
2		2483.500	-9.856	73.186	63.330	-10.670	74.000	PEAK
3		2483.500	-9.856	52.190	42.334	-11.666	54.000	AVERAGE
4		2491.497	-9.838	75.028	65.190	-8.810	74.000	PEAK
5		2491.497	-9.838	51.380	41.542	-12.458	54.000	AVERAGE
6		2500.000	-9.810	71.717	61.907	-12.093	74.000	PEAK
7		2500.000	-9.810	52.640	42.830	-11.170	54.000	AVERAGE

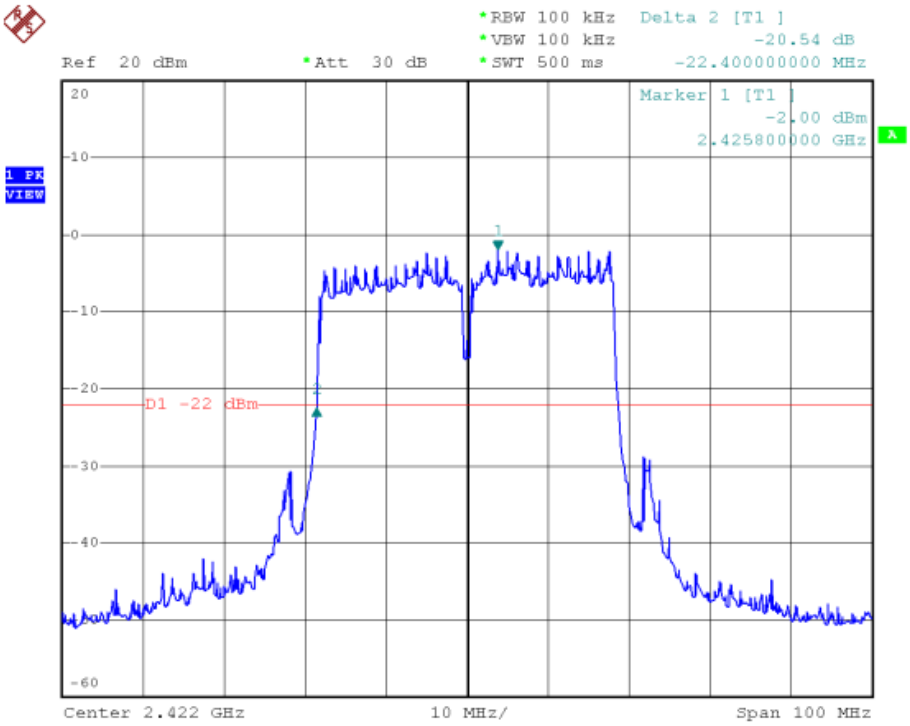
Note:

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

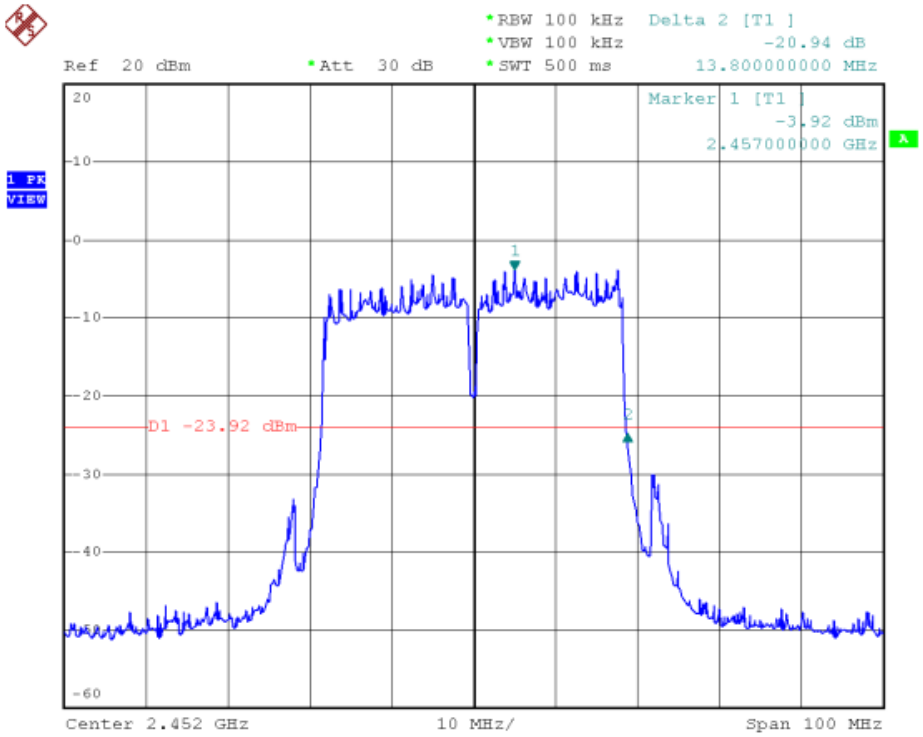
Band Edge (20dBc RF Conducted Measurement)
Mode 4: Transmit by 802.11n（40MHz）(An0) (2422MHz)



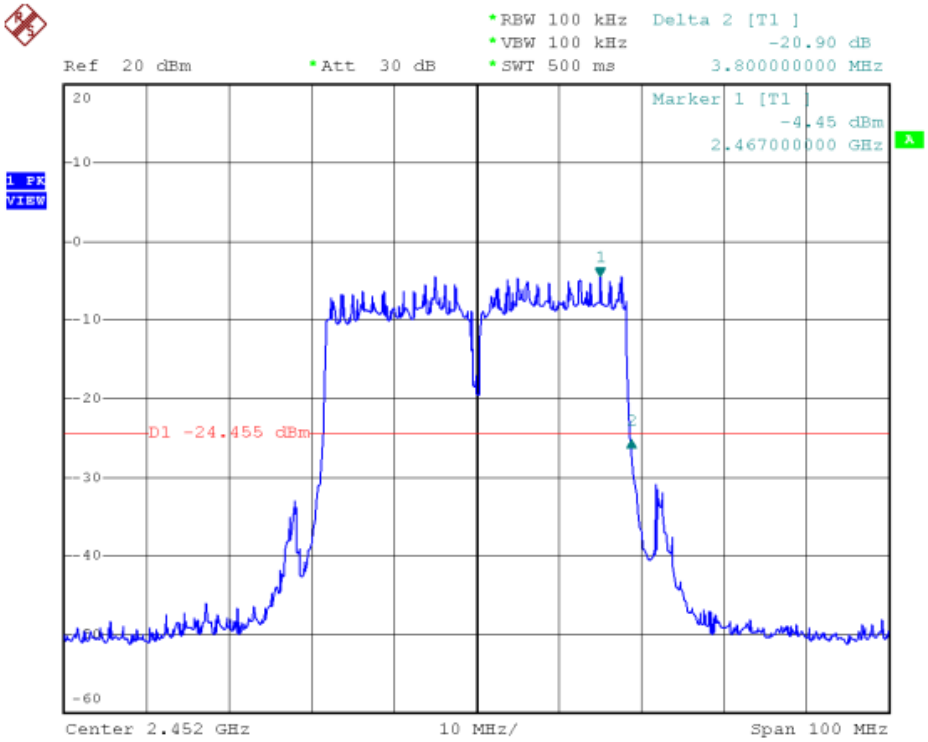
Band Edge (20dBc RF Conducted Measurement)
Mode 4: Transmit by 802.11n（40MHz）(An1) (2422MHz)



Band Edge (20dBc RF Conducted Measurement)
Mode 4: Transmit by 802.11 n（40MHz）(An0) (2452MHz)



Band Edge (20dBc RF Conducted Measurement)
Mode 4: Transmit by 802.11 n（40MHz）(An1) (2452MHz)



8. RF Antenna Conducted Spurious

8.1. Test Limit

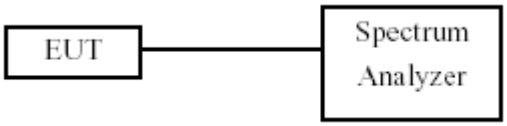
In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional Radiator is operating, the radio frequency power that is produced by the intentional radiator shall Be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired 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



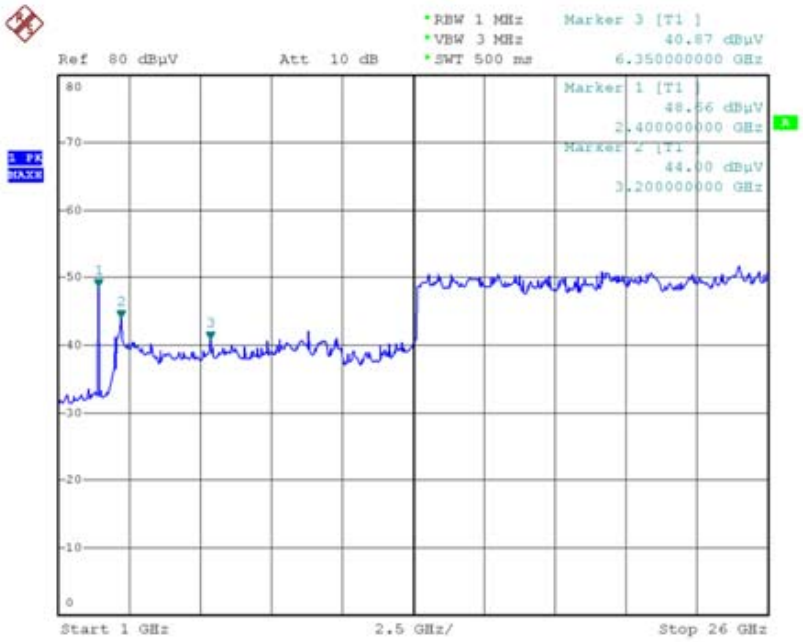
8.4. Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date
Spectrum Analyzer	R&S	FSP40	100324	2009.11.02
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2009.10.19

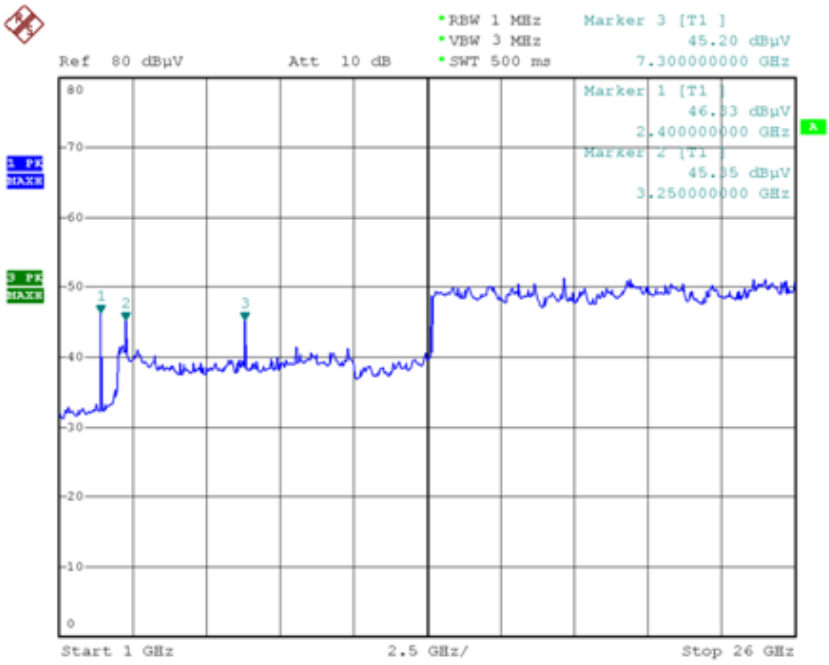
8.5. Test Result and Data

Test Item	RF Antenna Conducted Spurious
Test Mode	Mode 1: Transmit by 802.11b (An0)
Test Date	2010-07-31

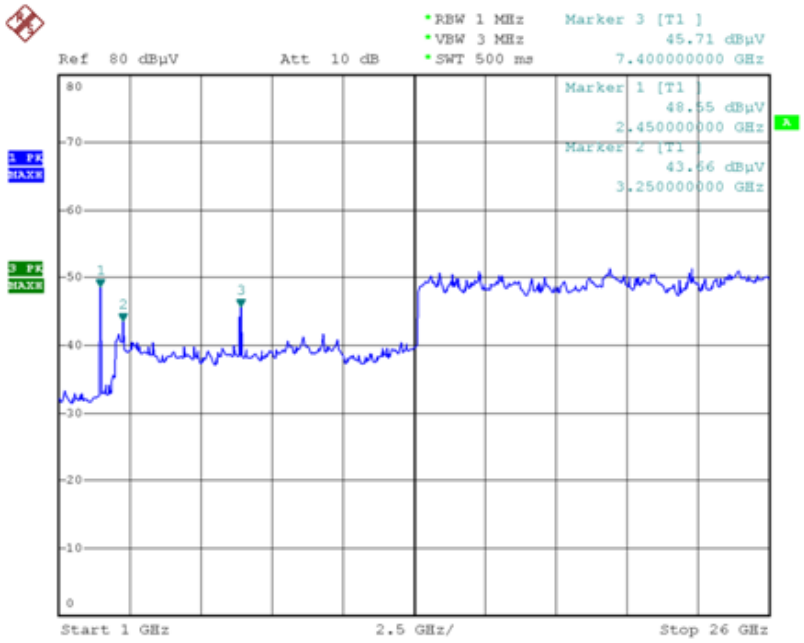
Channel 01 (2412MHz)



Channel 06 (2437MHz)

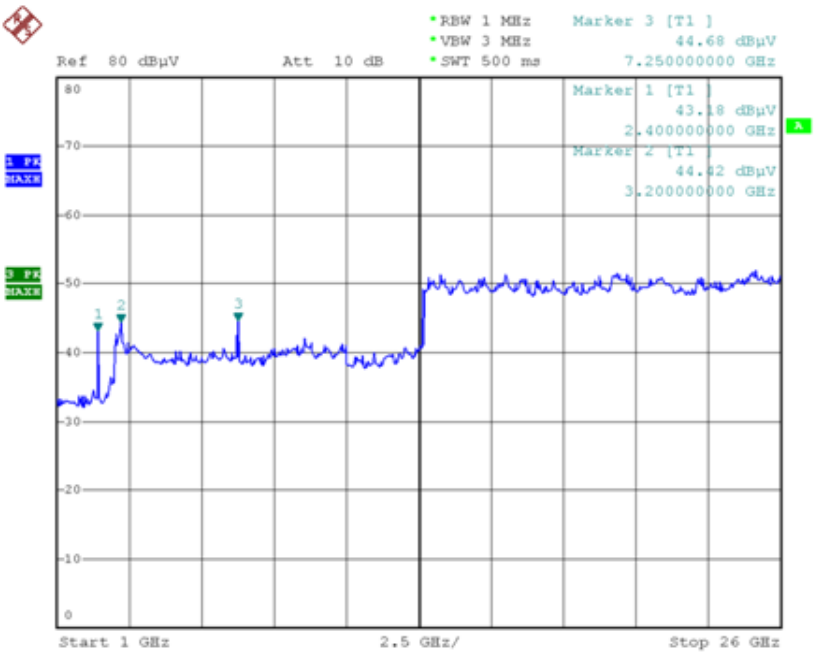


Channel 11 (2462MHz)

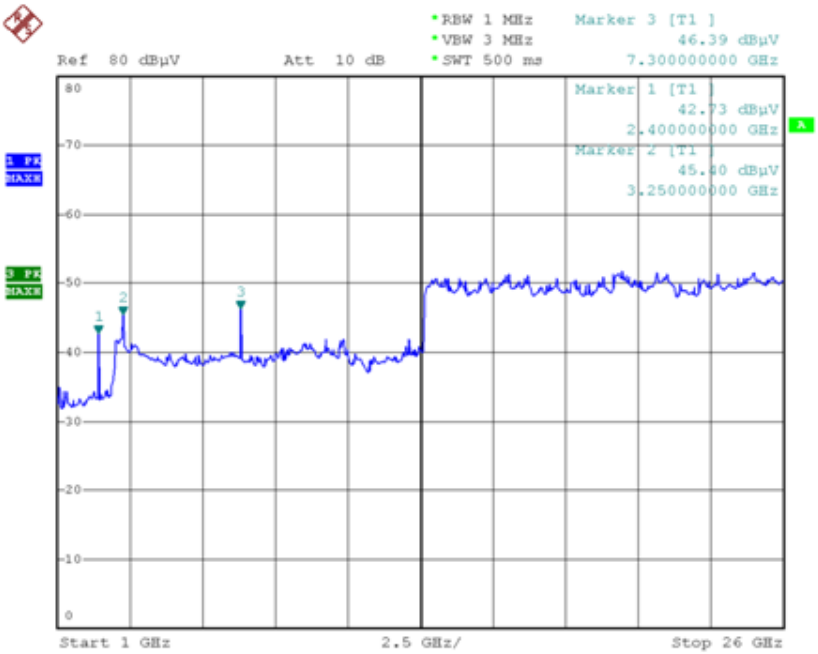


Test Item	RF Antenna Conducted Spurious
Test Mode	Mode 2: Transmit by 802.11g (An0)
Test Date	2010-07-31

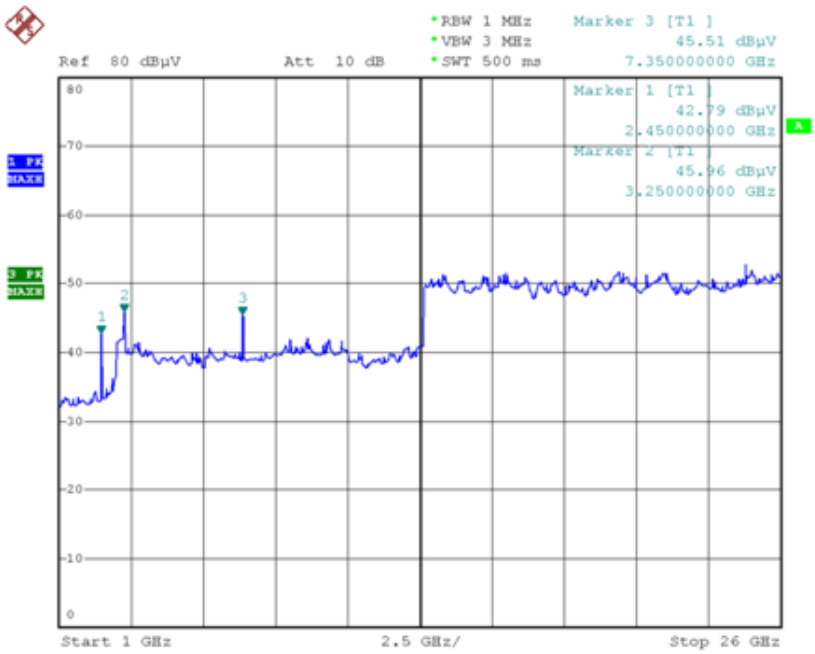
Channel 01 (2412MHz)



Channel 06 (2437MHz)

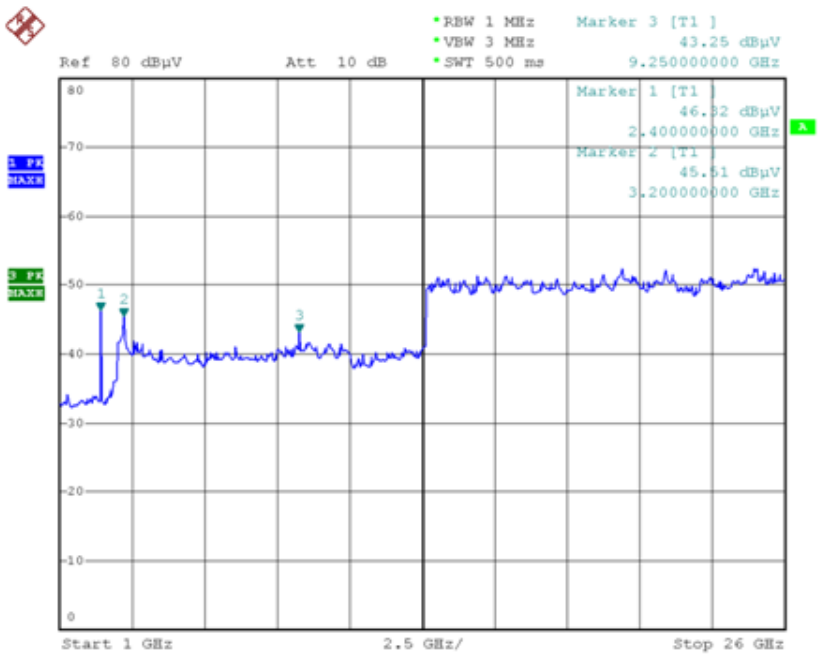


Channel 11 (2462MHz)

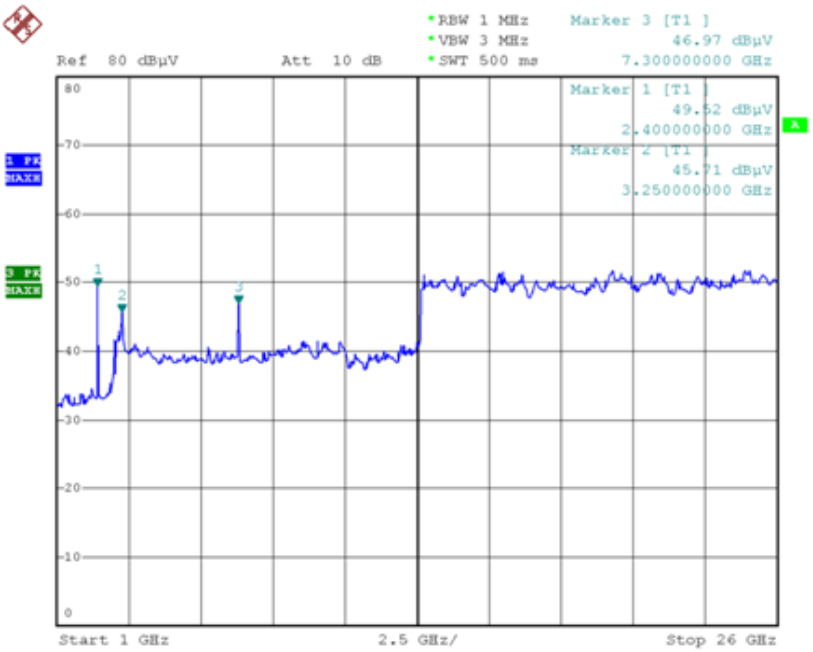


Test Item	RF Antenna Conducted Spurious
Test Mode	Mode 3: Transmit by 802.11n (20MHz) (An0 and An1)
Test Date	2010-07-31

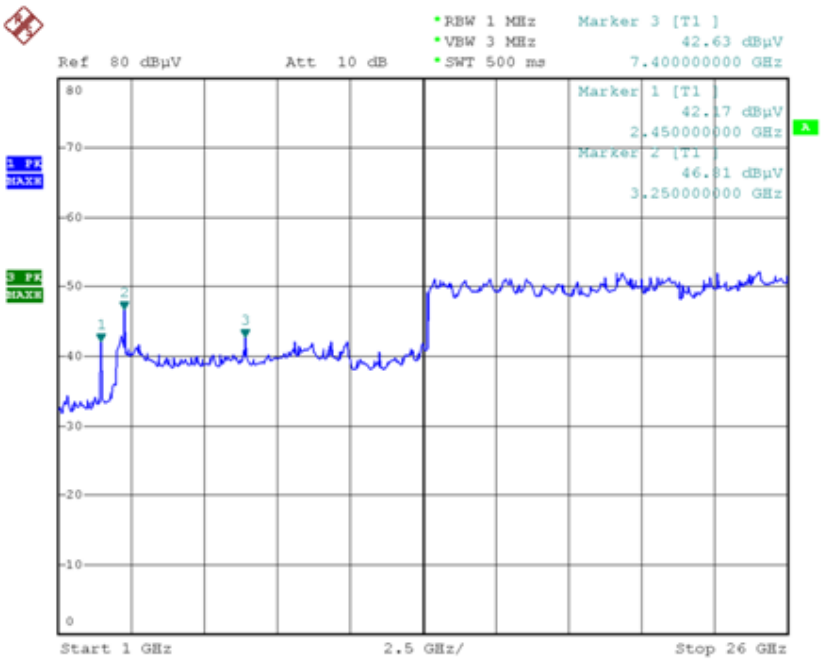
Channel 01 (2412MHz)



Channel 06 (2437MHz)

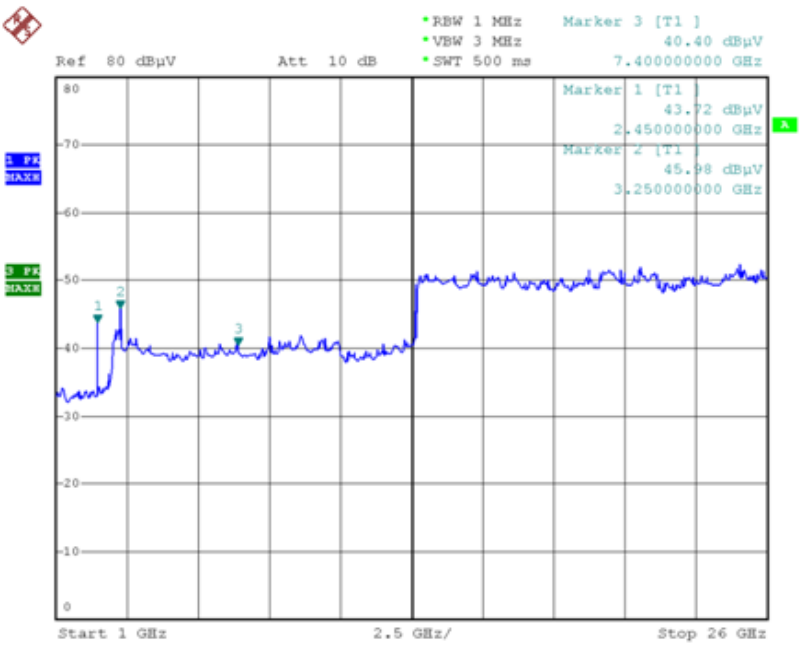


Channel 11 (2462MHz)

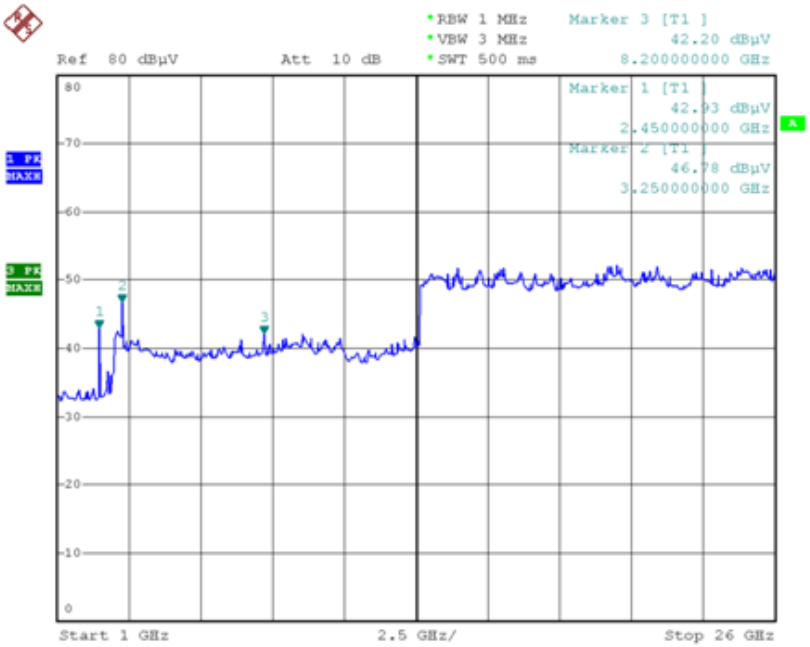


Test Item	RF Antenna Conducted Spurious
Test Mode	Mode 4: Transmit by 802.11n (40MHz) (An0 and An1)
Test Date	2010-07-31

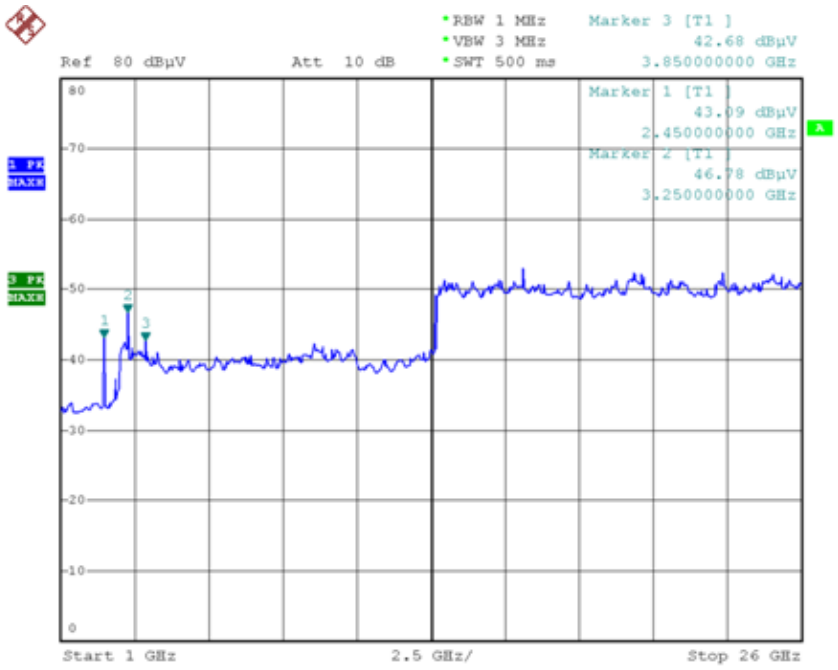
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



9. Power Spectral Density

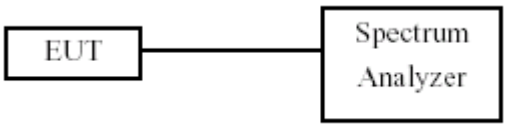
9.1. Test Limit

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≧ RBW, Sweep time=Auto, Set detector=Peak detector.

9.3. Test Setup Layout



9.4. Measurement Equipment

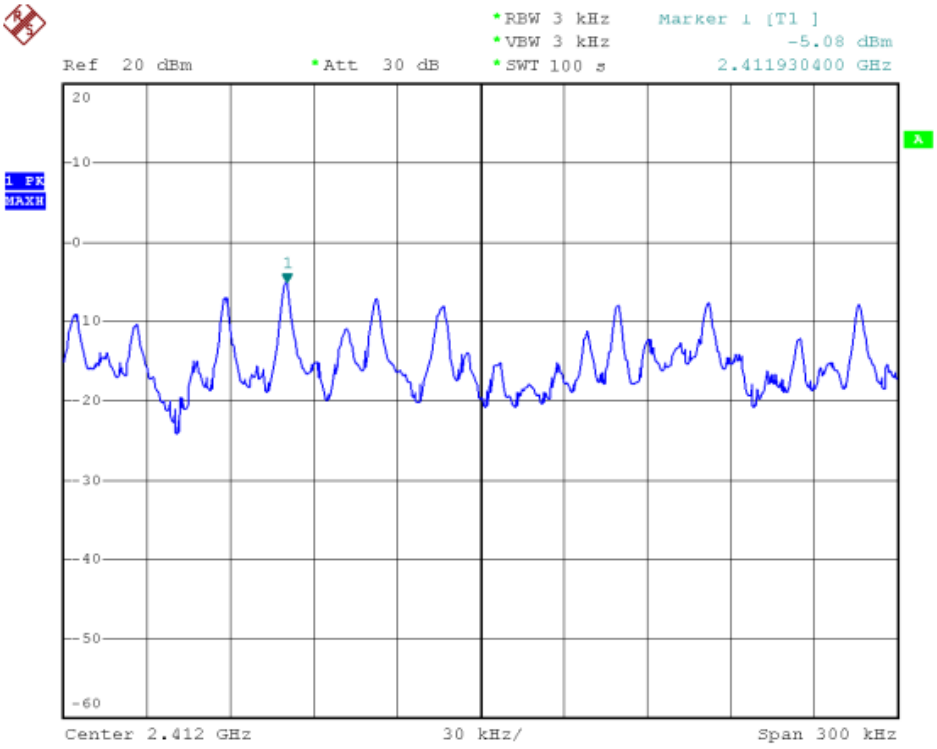
Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date
Spectrum Analyzer	R&S	FSP40	100324	2009.11.02
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2009.10.19

9.5. Test Result and Data

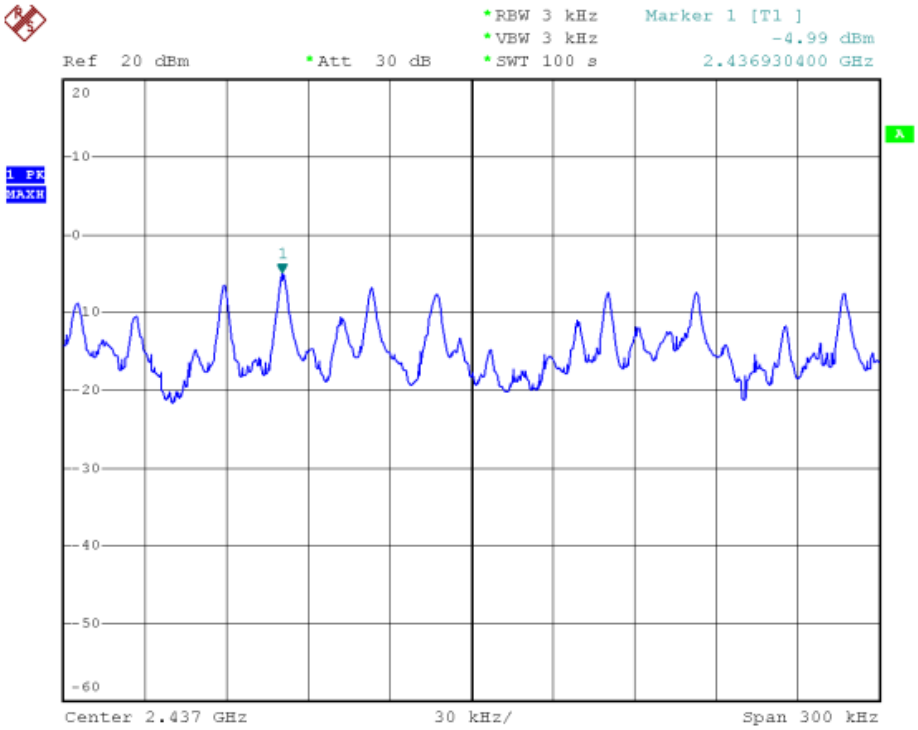
Test Item	Power Spectral Density
Test Mode	Mode 1: Transmit by 802.11b (An0)
Test Date	2010-07-23

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-5.08	8	Pass
06	2437	-4.99	8	Pass
11	2462	-5.02	8	Pass

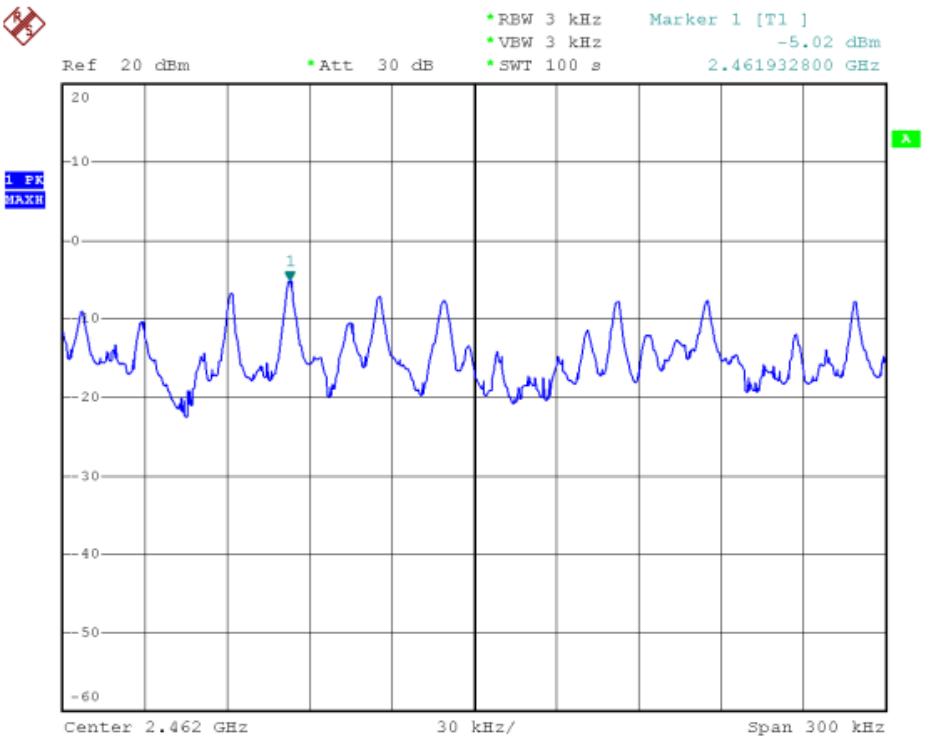
Channel 01 (2412MHz)



Channel 06 (2437MHz)



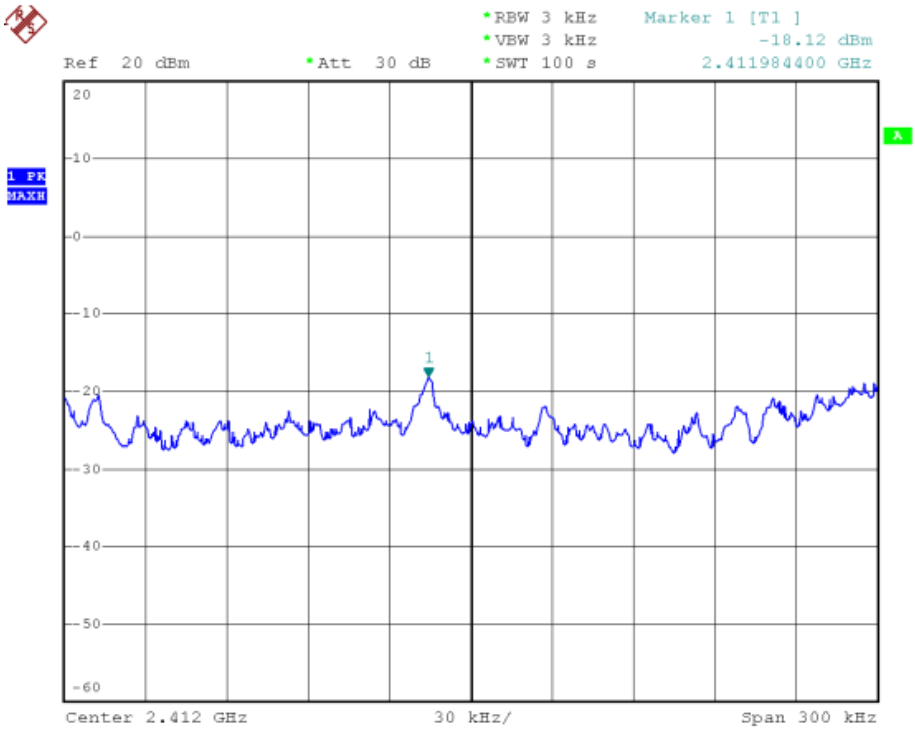
Channel 11 (2462MHz)



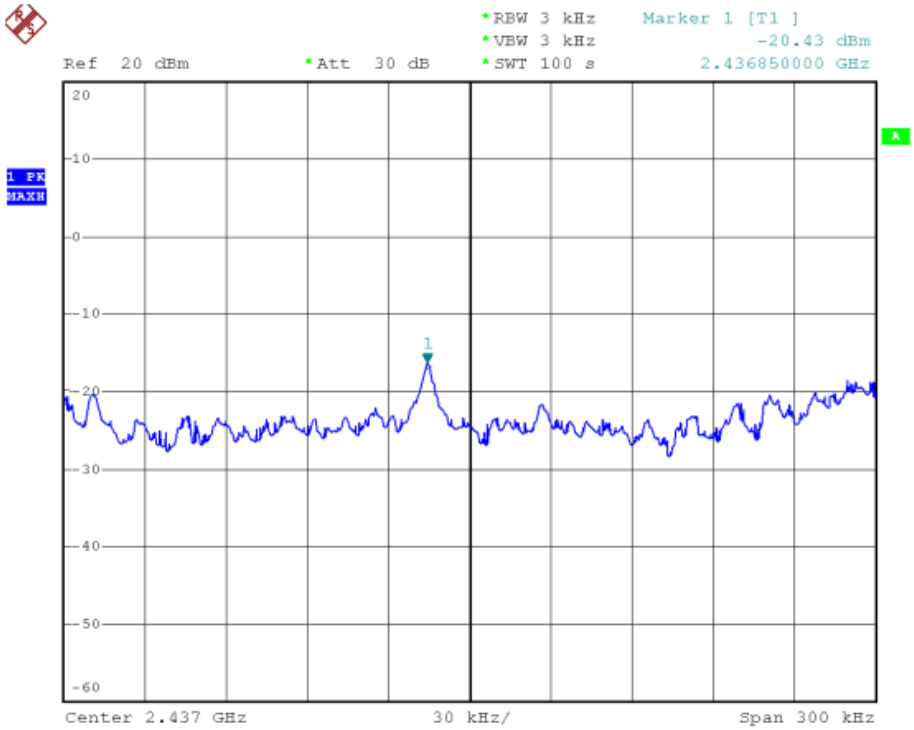
Test Item	Power Spectral Density
Test Mode	Mode 2: Transmit by 802.11g (An0)
Test Date	2010-07-23

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-18.12	8	Pass
06	2437	-20.43	8	Pass
11	2462	-18.93	8	Pass

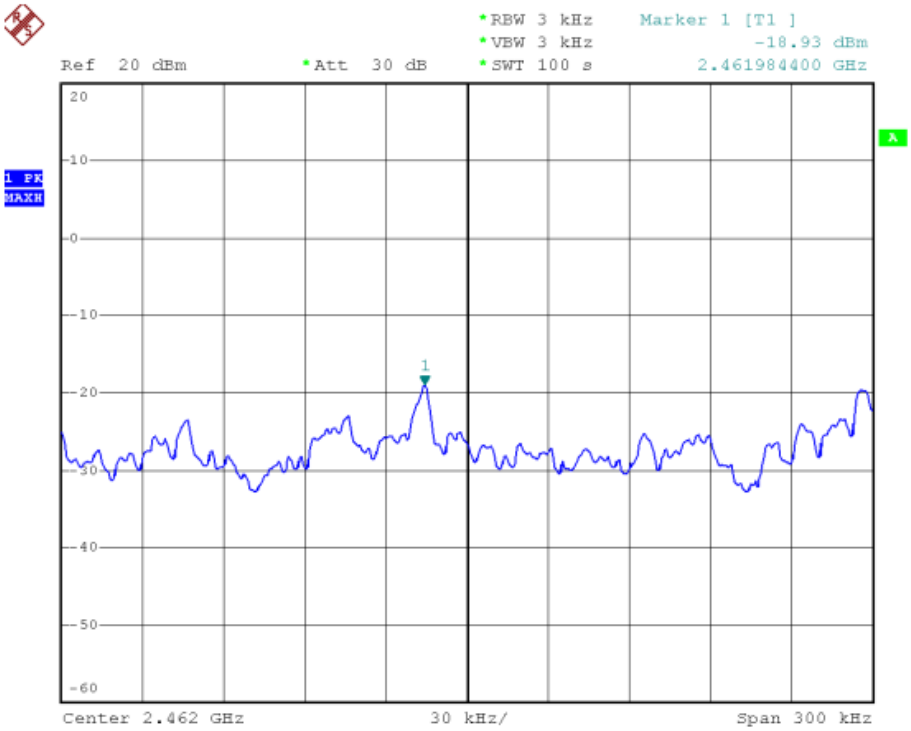
Channel 01 (2412MHz)



Channel 06 (2437MHz)



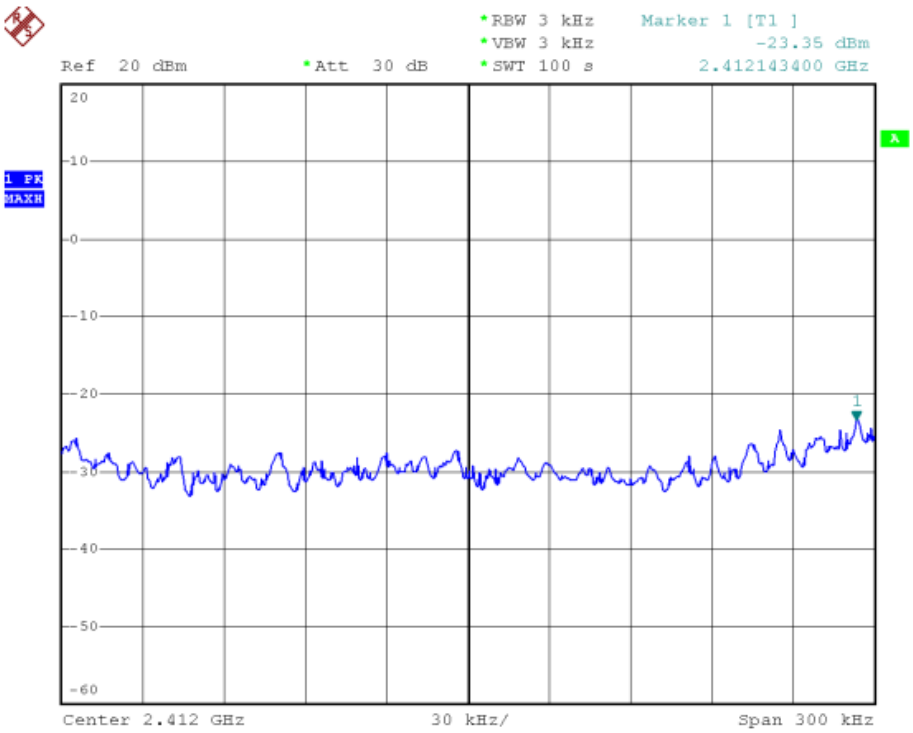
Channel 11 (2462MHz)



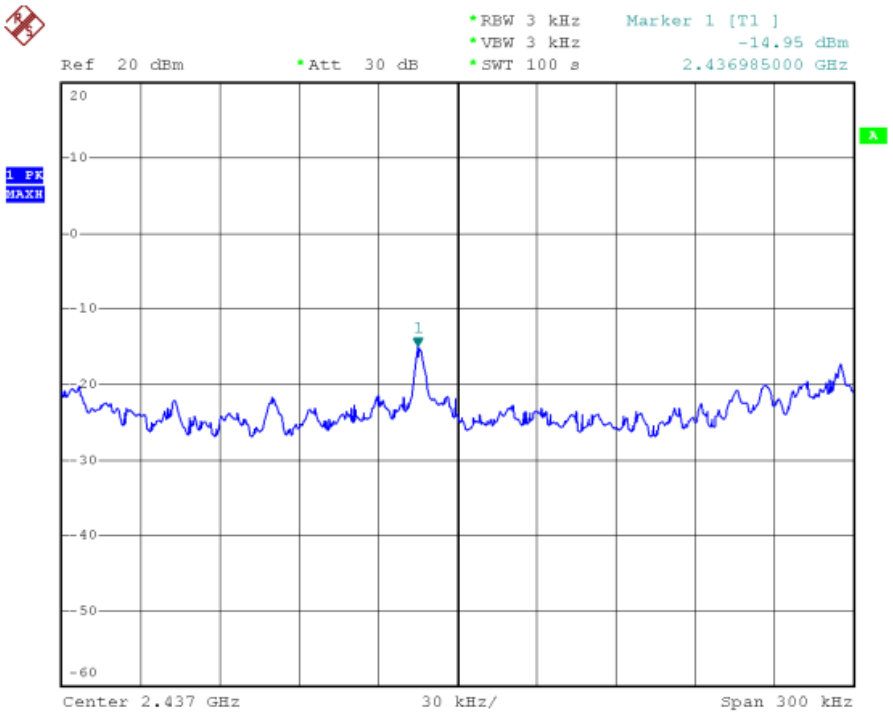
Test Item	Power Spectral Density
Test Mode	Mode 3: Transmit by 802.11n（20MHz）(An0)
Test Date	2010-07-23

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-23.35	8	Pass
06	2437	-14.95	8	Pass
11	2462	-23.20	8	Pass

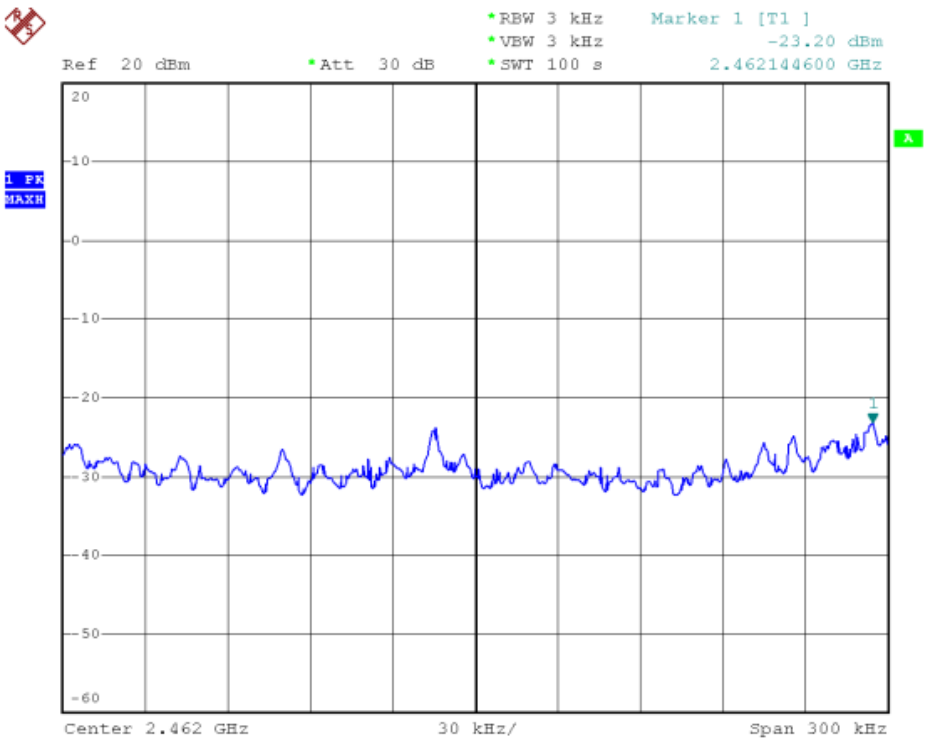
Channel 01 (2412MHz)



Channel 06 (2437MHz)



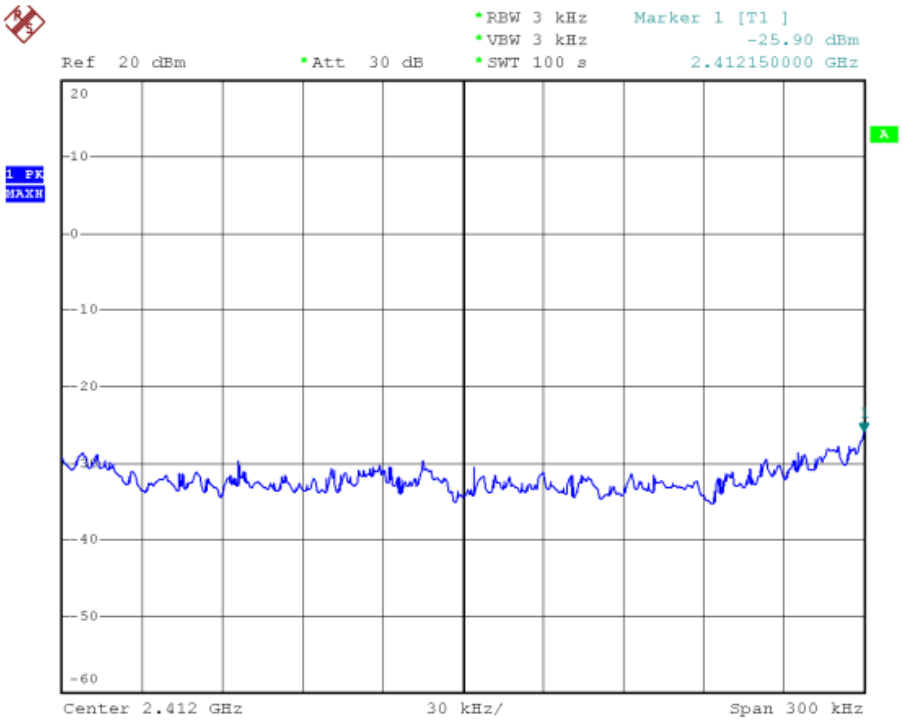
Channel 11 (2462MHz)



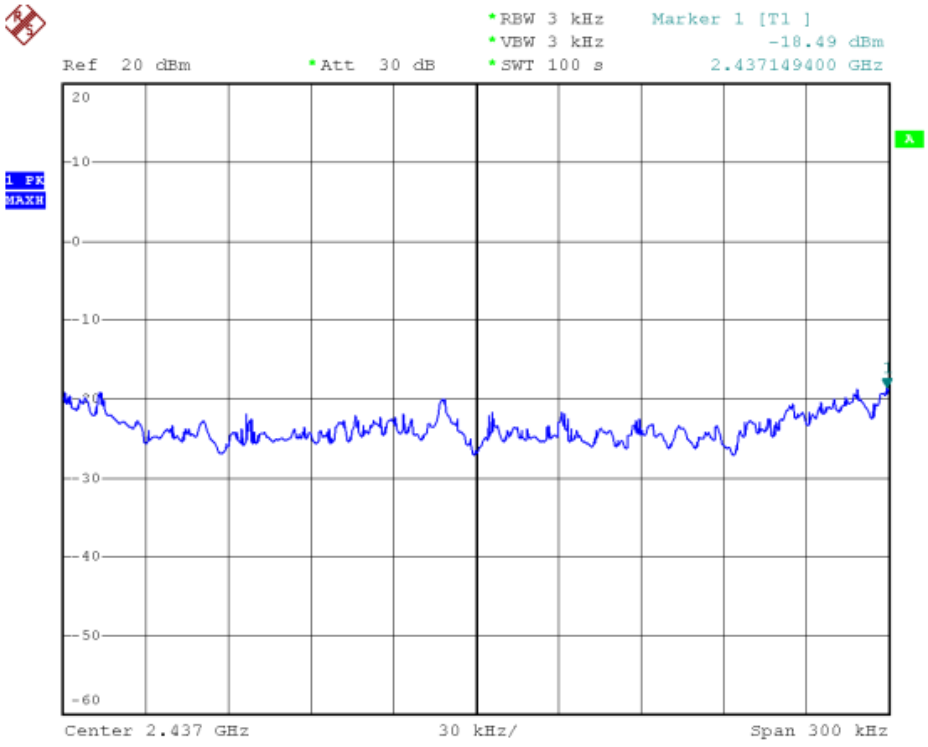
Test Item	Power Spectral Density
Test Mode	Mode 3: Transmit by 802.11n（20MHz）(An1)
Test Date	2010-07-23

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-25.90	8	Pass
06	2437	-18.49	8	Pass
11	2462	-23.75	8	Pass

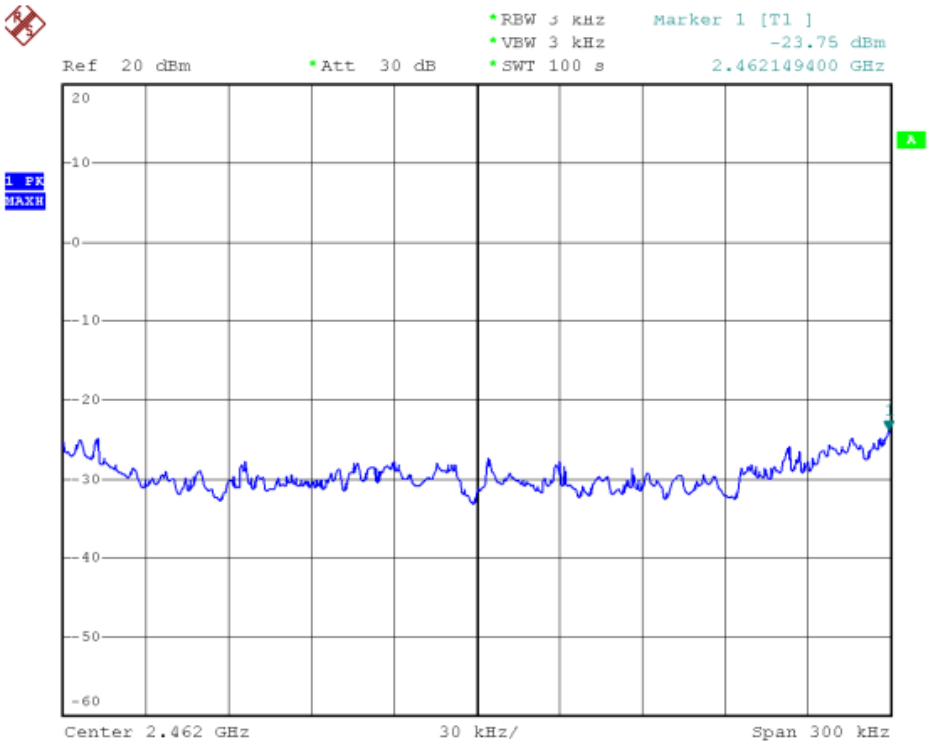
Channel 01 (2412MHz)



Channel 06 (2437MHz)



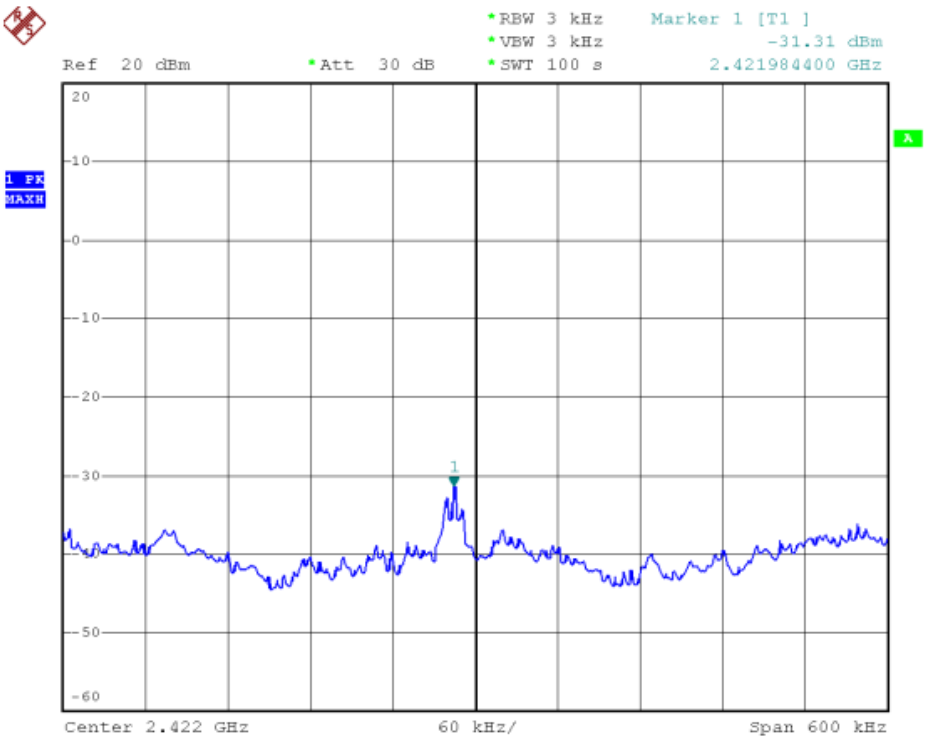
Channel 11 (2462MHz)



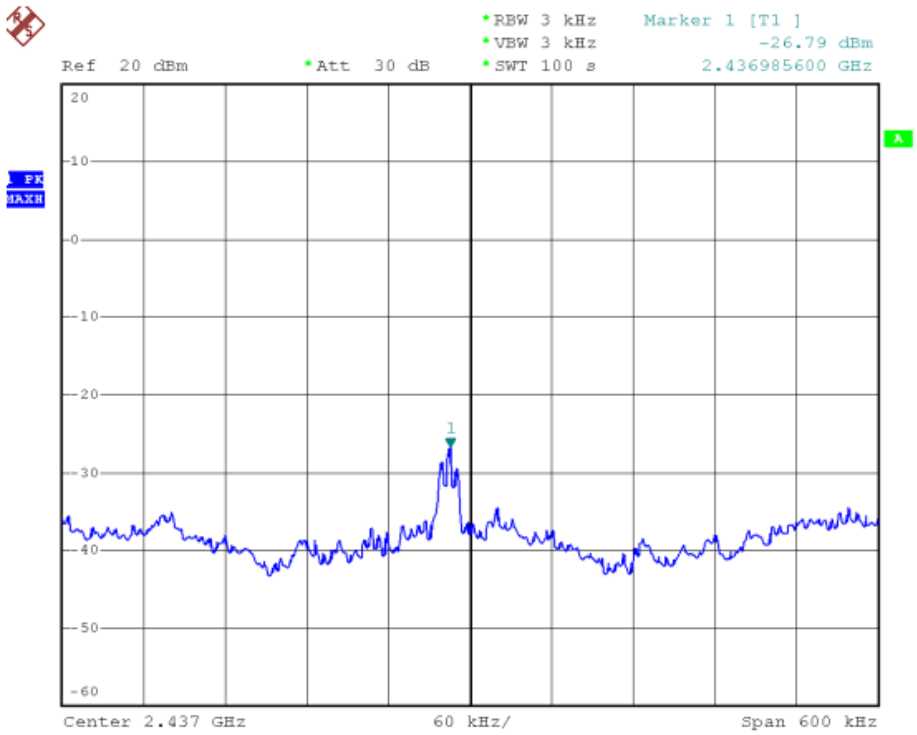
Test Item	Power Spectral Density
Test Mode	Mode 4: Transmit by 802.11n（40MHz）(An0)
Test Date	2010-07-23

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
03	2422	-31.31	8	Pass
06	2437	-26.79	8	Pass
09	2452	-31.39	8	Pass

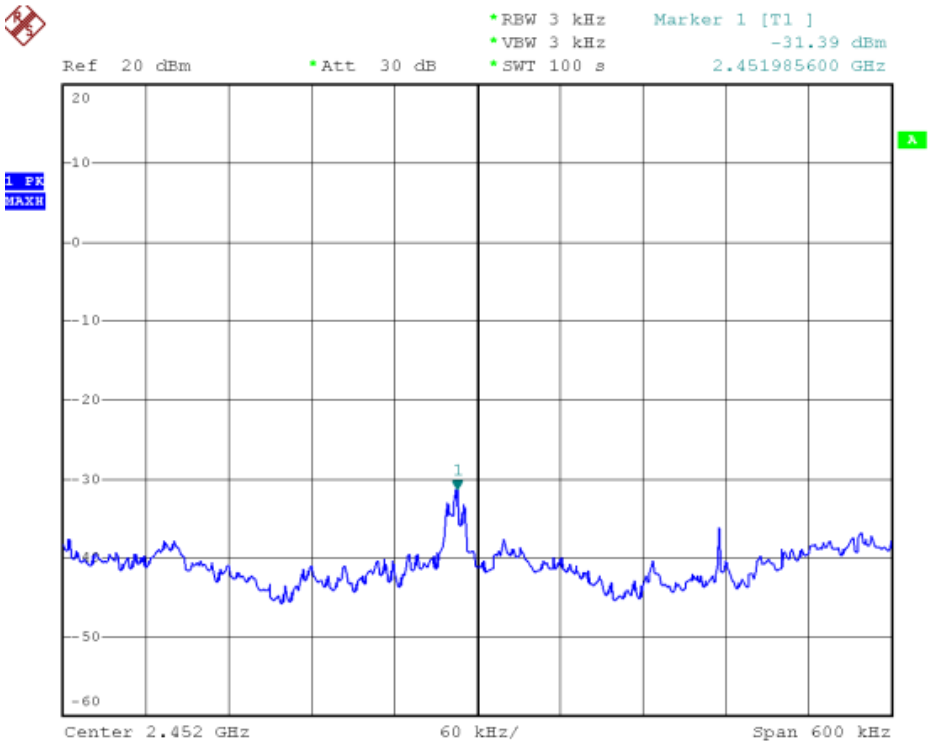
Channel 03 (2422MHz)



Channel 06 (2437MHz)



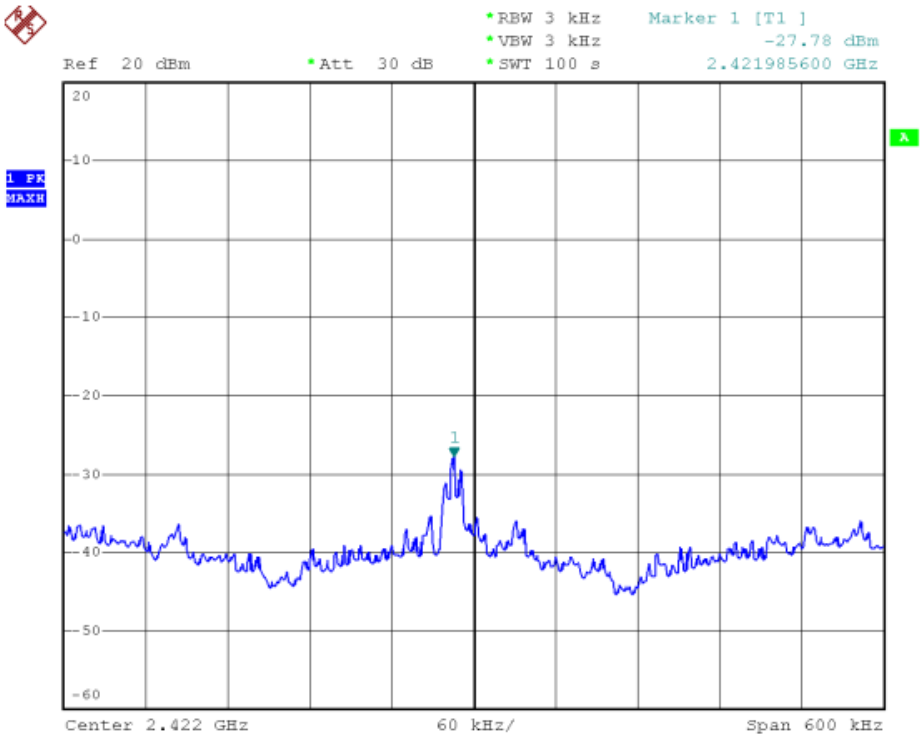
Channel 09 (2452MHz)



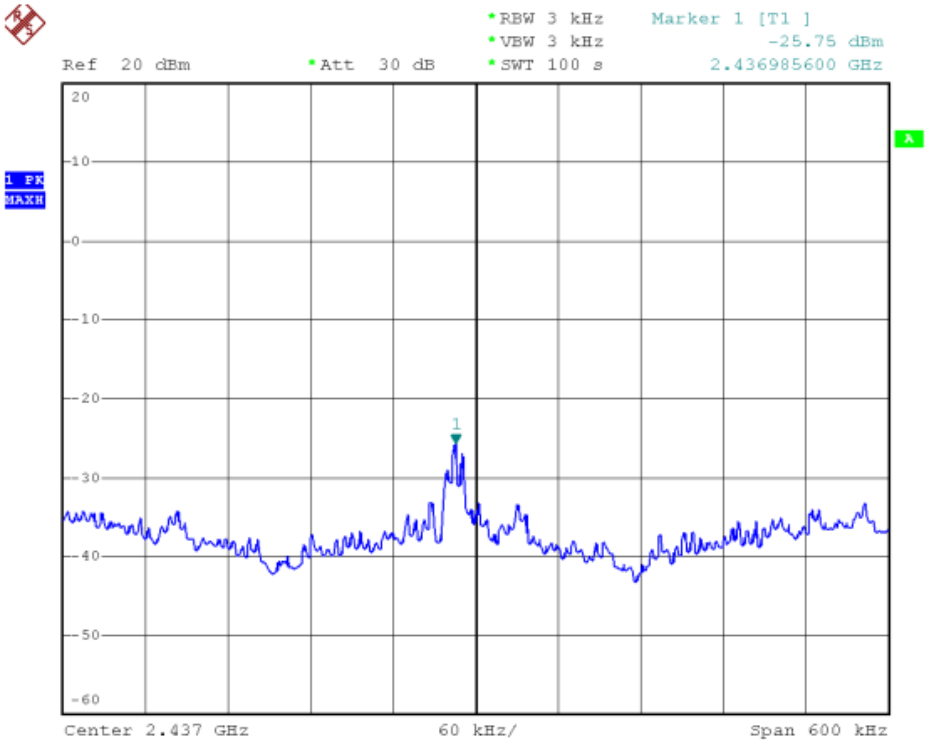
Test Item	Power Spectral Density
Test Mode	Mode 4: Transmit by 802.11n（40MHz）(An1)
Test Date	2010-07-23

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
03	2422	-27.78	8	Pass
06	2437	-25.75	8	Pass
09	2452	-28.75	8	Pass

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)