

FCC Part15 Subpart C Test Report

Product Name : Home Gateway
Model No. : HG622
FCC ID : QISHG622

Applicant : Huawei Technologies Co., Ltd.
Address : Administration Building, Huawei Base, Bantian,
Longgang District, Shenzhen 518129 P.R.C.

Date of Receipt : Nov.24, 2009
Test Date : Nov.24,2009~Dec.22,2009
Issued Date : Dec.22, 2009
Report No. : 09BS117R-RF-US-P05V01
Report Version : V1.1

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Test Report Certification

Issued Date : Dec.22, 2009

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Address : Administration Building, Huawei Base, Bantian,
Longgang District, Shenzhen 518129 P.R.C.

Manufacturer : Huawei Technologies Co., Ltd.

Address : Administration Building, Huawei Base, Bantian,
Longgang District, Shenzhen 518129 P.R.C.

Model No. : HG622

FCC ID : QISHG622

EUT Voltage : DC 12 V

Trade Name : HUAWEI

Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2008
ANSI C63.4: 2003

Test Result : Complied

Performed Location : SuZhou EMC laboratory
No.99 Hongye Rd., Suzhou Industrial Park Loufeng
Hi-Tech Development Zone., SuZhou, China
TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098
FCC Registration Number: 800392

Documented By : Alice Ni
(Engineering ADM: Alice Ni)

Reviewed By : Marlin Chen
(Engineering Supervisor: Marlin Chen)

Approved By : Dream Cao
(Engineering Manager: Dream Cao)

Laboratory Information

We , **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited by the following accreditation Bodies in compliance with ISO 17025, EN 45001 and Guide 25:

Taiwan R.O.C.	: BSMI, DGT, CNLA
Germany	: TUV Rheinland
Norway	: Nemko, DNV
USA	: FCC, NVLAP
Japan	: VCCI

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://tw.quietek.com/modules/myalbum/>
The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>
If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

HsinChu Testing Laboratory :

No.75-2, 3rd Lin, Wangye Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C.
TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : service@quietek.com



LinKou Testing Laboratory :

No. 5, Ruei-Shu Valley, Ruei-Ping Tsuen, Lin-Kou Shiang, Taipei, Taiwan, R.O.C.
TEL : +886-2-8601-3788 / FAX : 886-2-8601-3789 E-Mail : service@quietek.com



Suzhou Testing Laboratory :

No.99 Hongye Rd., Suzhou Industrial Park Loufeng Hi-Tech Development Zone., SuZhou, China
TEL : +86-512-6251-5088 / FAX : 86-512-6251-5098 E-Mail : service@quietek.com



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1. General Information

1.1. EUT Description

Product Name	Home Gateway
Trade Name	HUAWEI
Model No.	HG622
EUT Voltage	DC 12 V
Frequency Range	802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz): 2422~2452MHz
Channel Number	802.11b/g/n(20MHz): 11 802.11n(40MHz): 7
Tech. of Modulation	802.11b: DSSS 802.11g/n: OFDM
Data Rate	802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11b: 1/2/5.5/11 Mbps 802.11n: up to 300Mbps
Channel Control	Auto
Antenna Delivery	2*TX + 2*RX
Antenna Type	PCB type
Peak Antenna Gain	2dBi

Channel List

802.11b/g/n(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz	04	2427 MHz
05	2432 MHz	06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	10	2457 MHz	11	2462 MHz	N/A	N/A
802.11n(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz	N/A	N/A

Note: HG622 was used for testing with number 1 adapter listed as follows.

Component	
AC Adapter #1	I.T.E POWER SUPPLY Manufacturer: ShenZhen Frecom Electronics Co., Ltd. Model: FM120015-US Input: 100-240V~, 50/60Hz, 0.6A Output: 12VDC, 1.5A
AC Adapter #2	I.T.E POWER SUPPLY Manufacturer: Dongguan Shilong Fuhua Electronic Co., Ltd Model: UE25L-120150SPAU Input: 100-240V~, 50/60Hz, 600mA MAX Output: 12VDC, 1.5A

1.2. Mode of Operation

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Transmit by 802.11b
Mode 2: Transmit by 802.11g
Mode 3: Transmit by 802.11 n (20MHz)
Mode 4: Transmit by 802.11n (40MHz)

Note:

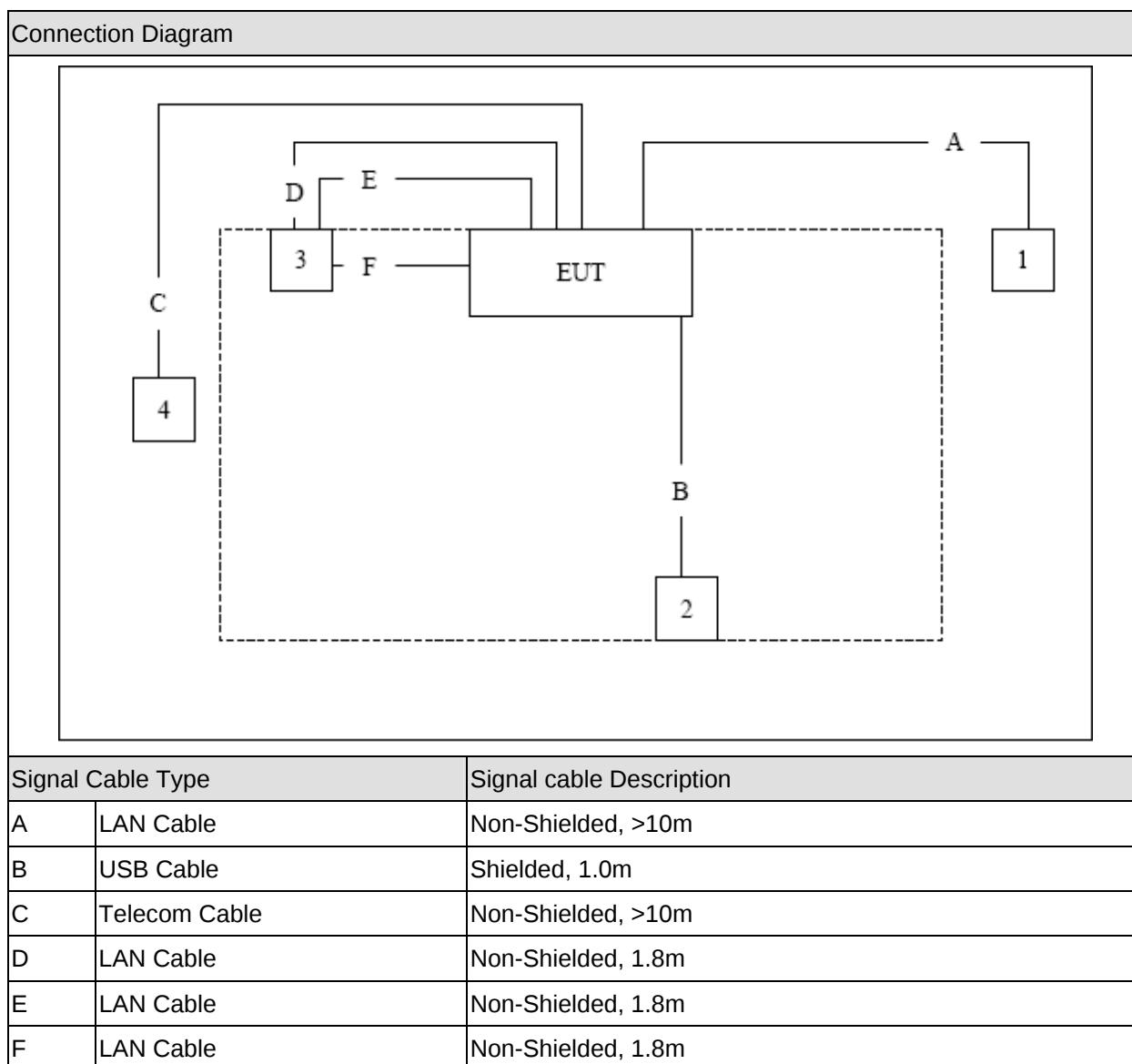
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. This device is a composite device in accordance with Part 15 Subpart B regulations. The function for the receiver was measured and made a test report that the report number is 09BS117R-RF-US-P01V02.

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook	DELL	PP19L	JH097 A01	Power by adapter
2	iPod	Apple	A1199	6U715YSVVQ5	Power by PC
3	Hub	D-Link	DIR-623	F33M383000011	Non-Shielded, 1.8m
4	IP Express	ZyXEL	IES-1248-71	S523825530	Non-Shielded, 1.8m

1.4. Configuration of Tested System



1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on above
2	Turn on the power of equipment.
3	Run control software "RT3x9xQA.exe" provided by applicant.
4	Select test channel and test mode for test.

2. Technical Test

2.1. Summary of Test Result

- ☒ No deviations from the test standards
- ☐ Deviations from the test standards as below description:

Performed Test Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.207	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.209	Yes	No
RF Antenna Conducted Spurious	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.247(d)	Yes	No
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2008 15.247(d)	Yes	No
Operation Frequency Range of 20dB Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2008 15.215(c)	Yes	No
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.247(a)(2)	Yes	No
Power Output	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.247(b)(3)	Yes	No
Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.247(e)	Yes	No

2.2. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

3. Conducted Emission

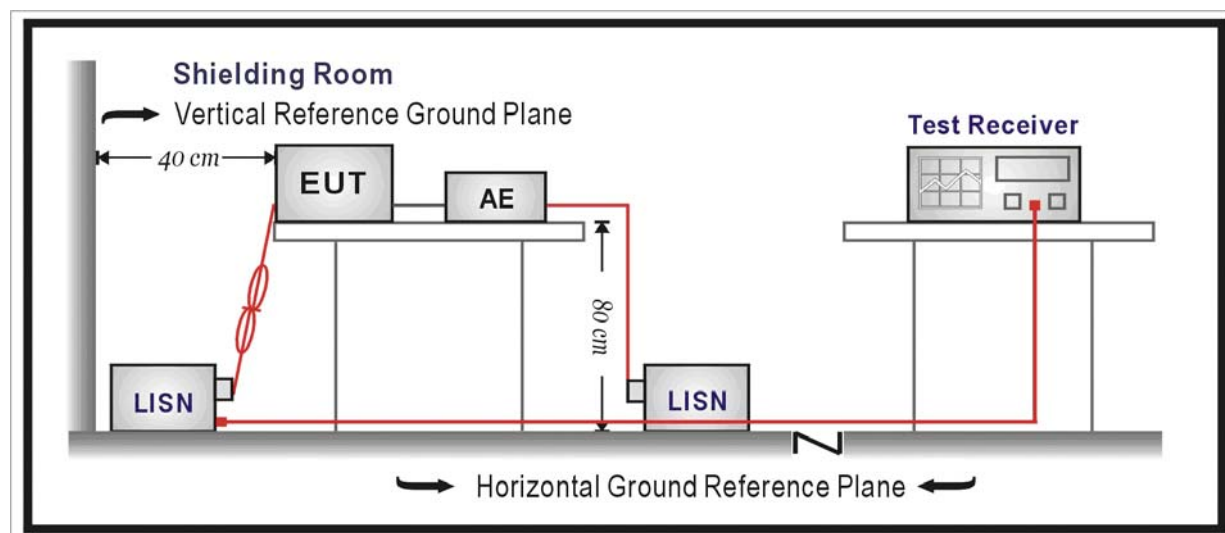
3.1. Test Equipment

Conducted Emission / SR-1

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
EMI Test Receiver	R&S	ESCI	100726	2009/02/07
Two-Line V-Network	R&S	ENV216	100013	2009/11/15
Two-Line V-Network	R&S	ENV216	100014	2009/11/15
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2009/11/25
50ohm Termination	SHX	TF2	07081401	2009/10/19
Coaxial Cable	Luthi	RG214	519358	2009/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH004	2009/03/31

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

3.2. Test Setup



3.3. Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

3.4. Test Procedure

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.

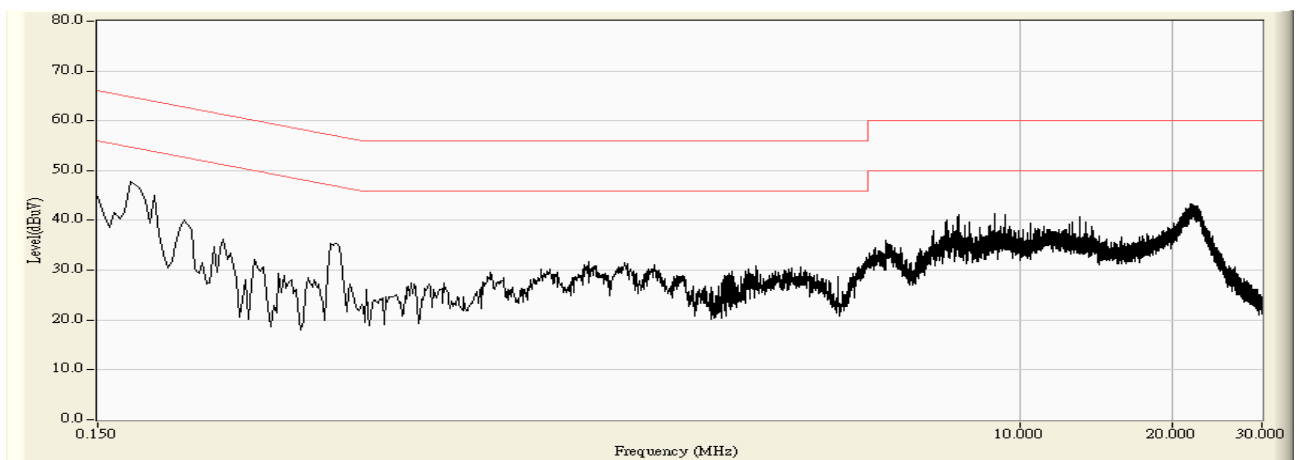
The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

3.5. Uncertainty

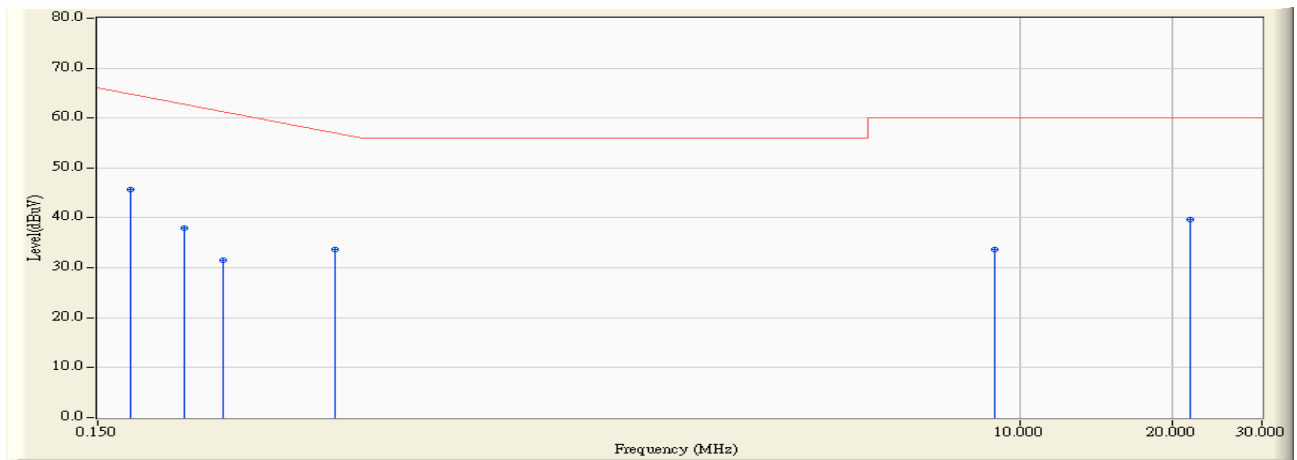
The measurement uncertainty is defined as ± 2.02 dB

3.6. Test Result

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/11/28 - 10:09
Limit : FCC_Part15.207_00M_QP	Margin : 10
Probe : ENV216_100014(0.009-30MHz) - Line1	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 1

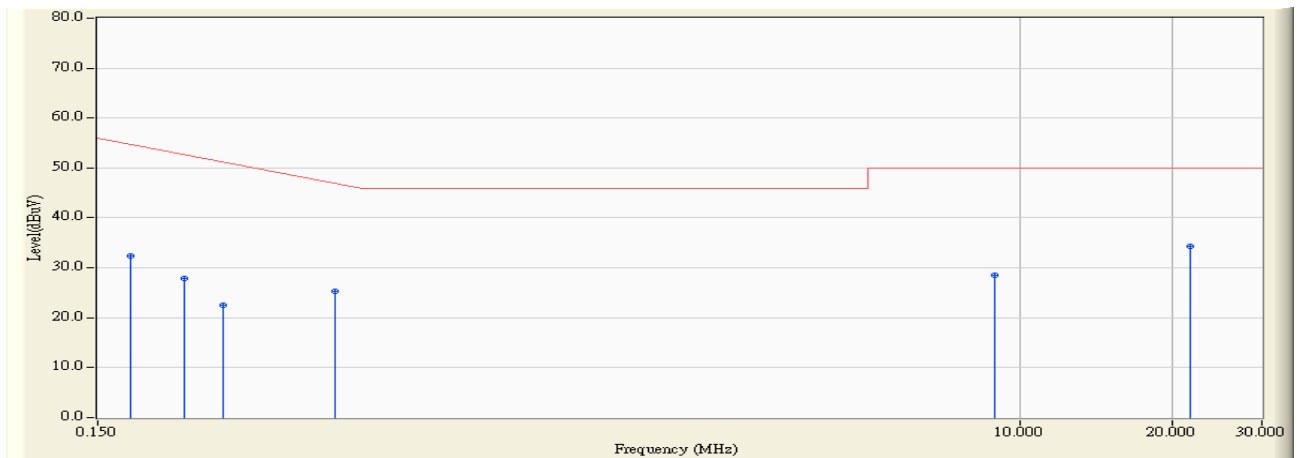


Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/11/28 - 10:11
Limit : FCC_Part15.207_00M_QP	Margin : 0
Probe : ENV216_100014(0.009-30MHz) - Line1	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 1



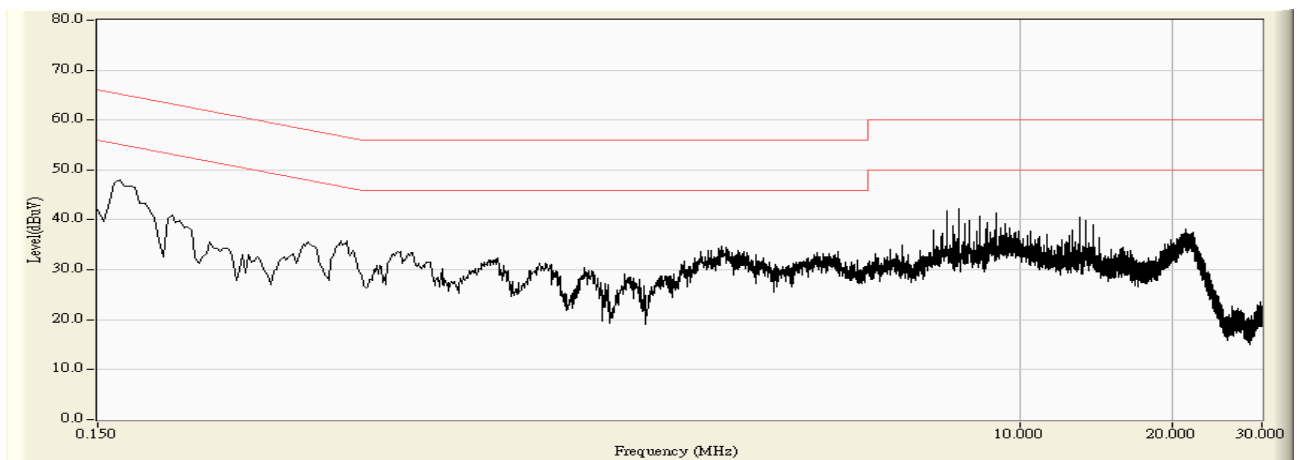
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.174	9.929	35.700	45.629	-19.138	64.767	QUASIPeAK
2		0.222	9.442	28.500	37.942	-24.802	62.744	QUASIPeAK
3		0.266	9.471	22.100	31.571	-29.671	61.242	QUASIPeAK
4		0.442	9.589	24.000	33.589	-23.435	57.024	QUASIPeAK
5		8.918	9.880	23.900	33.780	-26.220	60.000	QUASIPeAK
6		21.694	10.460	29.200	39.660	-20.340	60.000	QUASIPeAK

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/11/28 - 10:11
Limit : FCC_Part15.207_00M_AV	Margin : 0
Probe : ENV216_100014(0.009-30MHz) - Line1	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 1

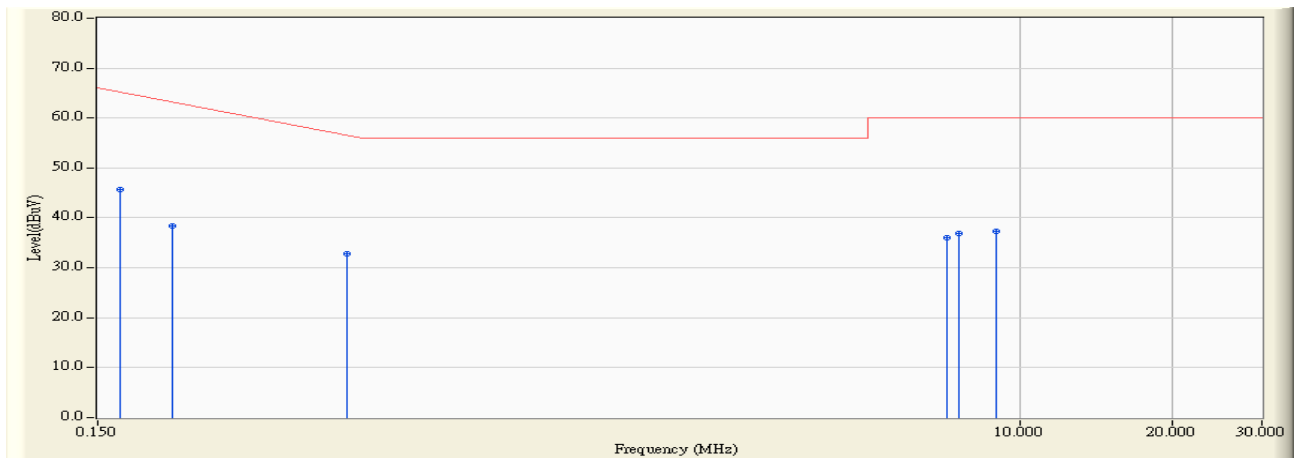


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.174	9.929	22.400	32.329	-22.438	54.767	AVERAGE
2		0.222	9.442	18.400	27.842	-24.902	52.744	AVERAGE
3		0.266	9.471	13.100	22.571	-28.671	51.242	AVERAGE
4		0.442	9.589	15.700	25.289	-21.735	47.024	AVERAGE
5		8.918	9.880	18.600	28.480	-21.520	50.000	AVERAGE
6	*	21.694	10.460	23.800	34.260	-15.740	50.000	AVERAGE

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/11/28 - 10:13
Limit : FCC_Part15.207_00M_QP	Margin : 10
Probe : ENV216_100014(0.009-30MHz) - Line2	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 1

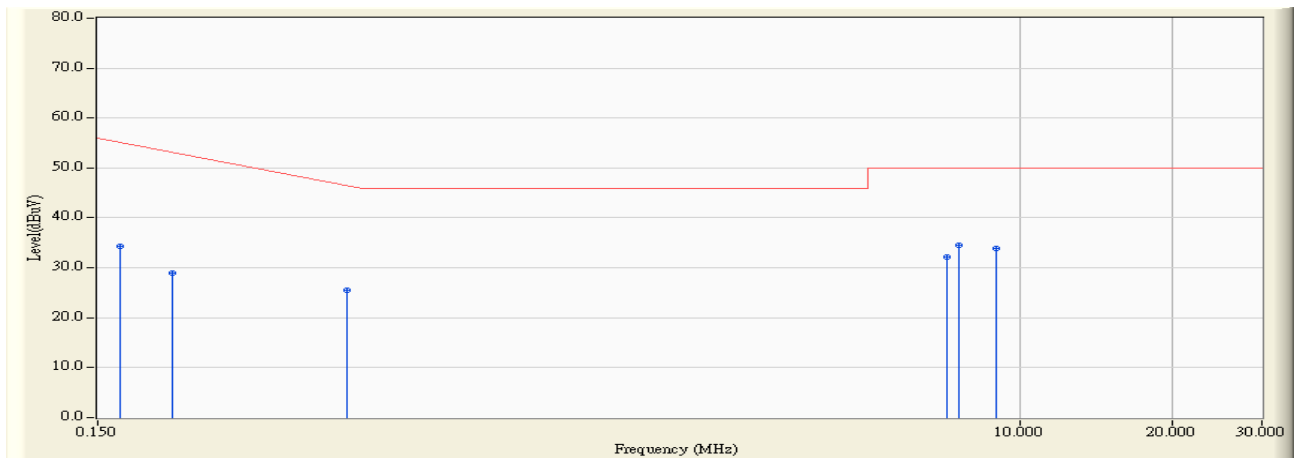


Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/11/28 - 10:15
Limit : FCC_Part15.207_00M_QP	Margin : 0
Probe : ENV216_100014(0.009-30MHz) - Line2	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 1



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.166	9.952	35.700	45.652	-19.506	65.158	QUASIPeAK
2		0.210	9.616	28.700	38.316	-24.889	63.205	QUASIPeAK
3		0.466	9.620	23.100	32.720	-23.865	56.585	QUASIPeAK
4		7.138	9.860	26.200	36.060	-23.940	60.000	QUASIPeAK
5		7.534	9.860	27.000	36.860	-23.140	60.000	QUASIPeAK
6		8.930	9.860	27.400	37.260	-22.740	60.000	QUASIPeAK

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/11/28 - 10:15
Limit : FCC_Part15.207_00M_AV	Margin : 0
Probe : ENV216_100014(0.009-30MHz) - Line2	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 1



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.166	9.952	24.300	34.252	-20.906	55.158	AVERAGE
2		0.210	9.616	19.400	29.016	-24.189	53.205	AVERAGE
3		0.466	9.620	15.900	25.520	-21.065	46.585	AVERAGE
4		7.138	9.860	22.300	32.160	-17.840	50.000	AVERAGE
5	*	7.534	9.860	24.600	34.460	-15.540	50.000	AVERAGE
6		8.930	9.860	24.100	33.960	-16.040	50.000	AVERAGE

4. Radiated Emission

4.1. Test Equipment

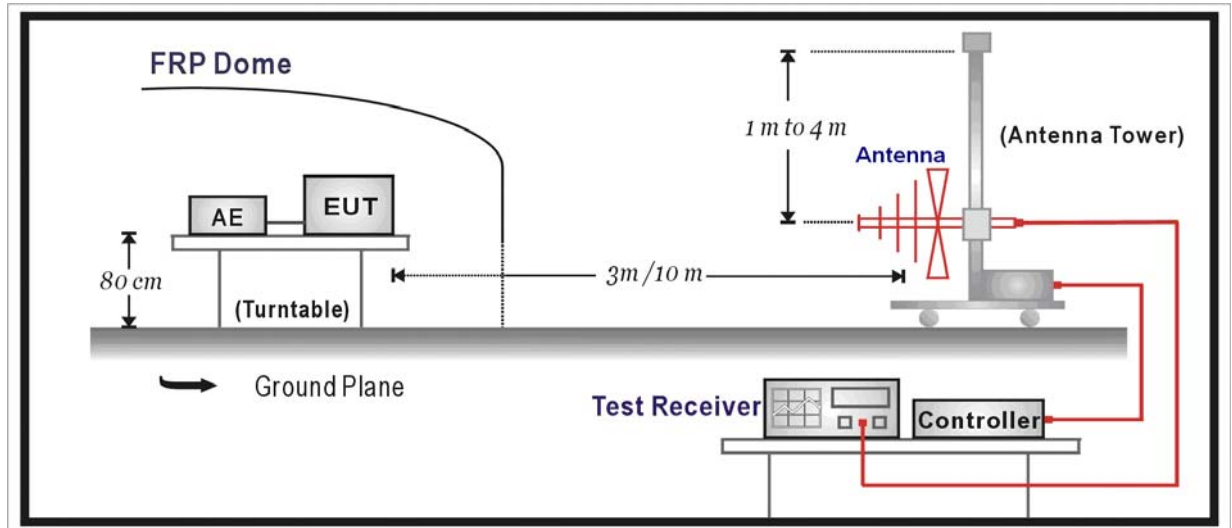
☒ Radiated Emission / AC-5

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2009.04.23
EMI Test Receiver	R&S	ESCI	100906	2009.02.16
Preamplifier	Quietek	AP-180C	CHM-0602013	2009.05.25
Preamplifier	Quietek	AP-040G	CHM-0906001	2009.06.18
Bilog Antenna	Teseq GmbH	CBL6112D	27612	2009.02.25
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2009.06.11
High-Pass Filter	Wainwright	WHKX2.8/18G-12SS	SN1	2009.03.03
High-Pass Filter	Wainwright	WHKX7.0/18G-8SS	SN16	2009.03.03
Lowpass Filter	Wainwright	WLKS4500-9SS	SN2	2009.03.03
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2009.05.25
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C2	2009.05.25
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC5-TH	2009.03.31

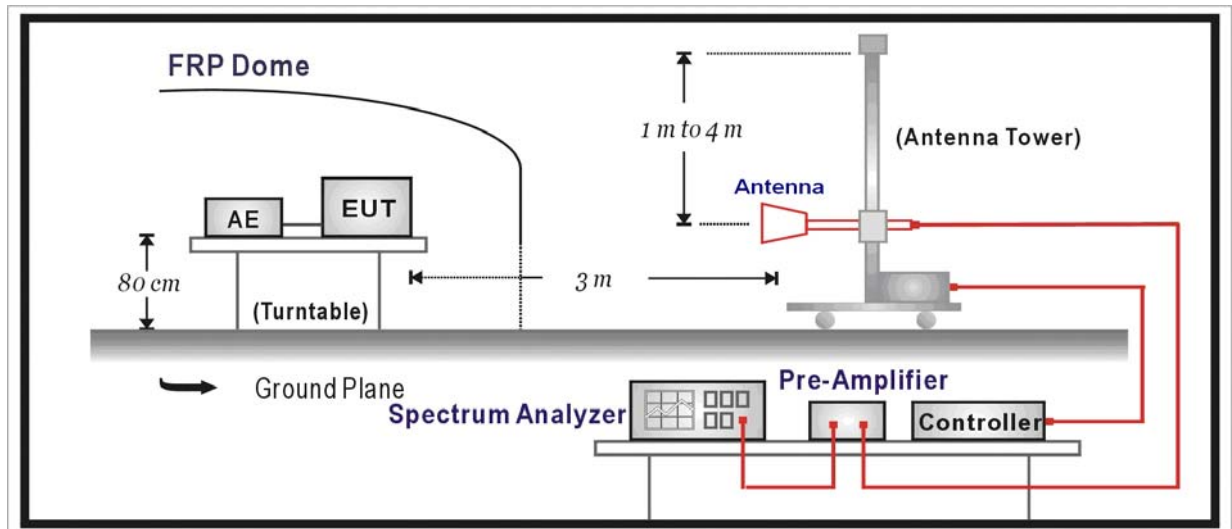
Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

4.2. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

FCC Part 15 Subpart C Paragraph 15.209		
Frequency (MHz)	Distance (m)	Level (dBuV/m)
30 - 88	3	40
88 - 216	3	43.5
216 - 960	3	46
Above 960	3	54

Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.4. Test Procedure

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. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2003 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

The frequency range from 30MHz to 10th harmonic is checked.

Note: When doing emission measurement above 1GHz, the horn antenna will be bended down a little (as horn antenna has the narrow beamwidth) in order to keeping the antenna in the "cone of radiation" of EUT. The 3dB beamwidth is 10~60 degrees for H-plane and 10~90 degrees for E-plane.

4.5. Uncertainty

The measurement uncertainty above 1G is defined as ± 3.9 dB
below 1G is defined as ± 3.8 dB

4.6. Test Result

All of the test result shown indicates the worst case, and spectrum analyzer parameters setting as shown below:

Peak detector: RBW = 1MHz, VBW = 3MHz, sweep time = 200ms;

Average detector: RBW = 1MHz, VBW = 10Hz, sweep time = auto.

Measure Level = Reading Level + Cable Loss + Antenna Factor - Preamplifier Gain

802.11b

Chain	CH	Antenna	Frequen cy (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
0	1	V	2413.5	75.7	31.1	106.8	Fundamental	/	PK
		H	479.8	21.1	21.2	42.3	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4825.0	59.1	0.6	59.7	74	-14.3	PK
		V	4825.0	52.8	0.6	53.4	54	-0.6	AV
		V	5420.0	45.6	1.6	47.2	54	-6.8	PK
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
	6	V	2435.3	64.4	31.2	95.6	Fundamental	/	PK
		H	479.8	21.1	21.2	42.3	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4876.0	56.5	0.8	57.3	74	-16.7	PK
		V	4876.0	49.6	0.8	50.4	54	-3.6	AV
		V	7307.0	44.5	8.2	52.7	74	-21.3	PK
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
	11	V	2463.7	78.5	31.2	111.4	Fundamental	/	PK
		H	479.8	21.1	21.2	42.3	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4927.0	58.6	0.9	59.7	74	-15.3	PK
		V	4927.0	49.6	0.9	50.5	54	-3.5	AV
		V	7392.0	46.7	8.5	55.2	74	-18.8	PK
		V	7392.0	42.4	8.5	50.9	54	-3.1	AV
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
1	1	V	2413.5	72.7	31.1	112.1	Fundamental	/	PK

		H	479.8	21.1	21.2	42.3	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4825.0	55.3	0.6	55.9	74	-18.1	PK
		V	4825.0	45.9	0.6	46.5	54	-7.5	AV
		V	5420.0	45.6	1.6	47.2	54	-6.8	PK
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
	6	V	2435.4	70.4	31.2	101.6	Fundamental	/	PK
		H	479.8	21.1	21.2	42.3	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4876.0	56.2	0.8	57.0	74	17.0	PK
		V	4876.0	45.7	0.8	46.5	54	-7.5	AV
		V	7018.0	46.4	8.1	54.5	74	-19.5	PK
		V	7018.0	43.5	8.1	51.6	54	-2.4	AV
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
	11	V	2463.6	73.0	31.2	111.6	Fundamental	/	PK
		H	479.8	21.1	21.2	42.3	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4927.0	54.4	0.9	55.3	74	-18.7	PK
		V	4927.0	38.9	0.9	39.8	54	-14.2	AV
		V	7392.0	46.6	8.5	55.1	74	-18.9	PK
		V	7392.0	40.2	8.5	48.7	54	-5.3	AV
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK

802.11g

Chain	CH	Antenna	Frequen cy (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
0	1	V	2413.5	77.6	31.1	111.0	Fundamental	/	PK
		H	479.8	21.1	21.2	42.3	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4824.0	57.7	0.6	58.3	74	-15.7	PK
		V	4824.0	39.9	0.6	40.5	54	-13.5	AV
		V	5420.0	45.6	1.6	47.2	54	-6.8	PK

1	6	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
		V	2435.1	75.2	31.2	106.4	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4876.0	46.9	0.8	47.7	54	-6.3	PK
		V	7307.0	48.3	8.2	56.5	74	-17.5	PK
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
		V	2465.2	79.6	31.2	111.4	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4927.0	54.3	0.9	55.2	54	-18.8	PK
		V	4927.0	36.2	0.9	37.1	54	-16.9	AV
		V	7375.0	52.1	8.4	60.5	74	-13.5	PK
		V	7375.0	33.8	8.5	42.3	54	-11.7	AV
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
	11	V	2413.2	77.8	31.1	111.9	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4825.0	58.4	0.6	59.0	74	-15.0	PK
		V	4825.0	45.2	0.6	45.8	54	-8.2	AV
		V	5420.0	45.6	1.6	47.2	54	-6.8	PK
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
		V	2437.1	80.6	31.2	111.8	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4876.0	57.3	0.8	58.1	74	-15.9	PK
		V	4876.0	45.5	0.8	46.3	54	-7.7	AV
		V	7307.0	47.4	8.2	55.3	74	-18.7	PK
		V	7307.0	34.8	8.2	43.0	54	-11.0	AV
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
	11	V	2459.2	78.0	31.2	112.2	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP

	V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
	V	4927.0	53.5	0.9	54.4	74	-19.6	PK
	V	4927.0	46.5	0.9	47.4	54	-6.6	PK
	V	7392.0	51.3	8.5	59.8	74	-14.2	PK
	V	7392.0	37.2	8.5	45.7	54	-8.3	AV
	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK

802.11n(20MHz)

Chain	CH	Antenna	Frequen cy (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
0	1	V	2413.6	75.1	31.1	110.7	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4825.0	56.7	0.6	57.3	74	-16.7	PK
		V	4825.0	43.3	0.6	43.9	54	-10.1	AV
		V	5420.0	45.6	1.6	47.2	54	-6.8	PK
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
	6	V	2439.3	71.4	31.2	102.6	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4876.0	52.8	0.8	53.6	54	-0.4	PK
		V	7307.0	48.1	8.2	56.3	74	-17.7	PK
		V	7307.0	33.6	8.2	41.8	54	-12.2	PK
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
	11	V	2464.8	76.2	31.2	110.7	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4910.0	52.4	0.9	53.3	54	-0.7	PK
		V	7392.0	48.8	8.5	57.3	74	-16.7	PK
		V	7392.0	34.5	8.5	43.0	54	-11.0	AV
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
1	1	V	2414.8	77.6	31.1	111.9	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP

0+1		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4842.0	56.3	0.7	57.0	74	-17.0	PK
		V	4842.0	47.3	0.7	48.0	54	-6.0	AV
		V	5420.0	45.6	1.6	47.2	54	-6.8	PK
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
	6	V	2436.6	77.2	31.2	108.4	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4876.0	57.3	0.8	58.1	74	-15.9	PK
		V	4876.0	44.5	0.8	45.3	54	-8.7	AV
		V	7307.0	48.1	8.2	56.3	74	-17.7	PK
		V	7307.0	35.7	8.2	43.9	54	-10.1	AV
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
	11	V	2459.3	75.6	31.2	112.0	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4927.0	53.9	0.9	54.8	74	-19.2	PK
		V	4927.0	52.3	0.9	53.2	54	-0.8	AV
		V	7375.0	50.2	8.4	58.6	74	-15.4	PK
		V	7375.0	36.5	8.4	44.9	54	-9.1	AV
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
	1	V	2408.1	81.8	31.1	114.6	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4825.0	59.3	0.6	59.9	74	-14.1	PK
		V	4825.0	42.6	0.5	46.7	54	-7.3	AV
		V	5420.0	45.6	1.6	47.2	54	-6.8	PK
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
	6	V	2440.1	81.2	31.2	112.4	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4876.0	56.5	0.8	57.3	74	-16.7	PK

		V	4876.0	44.2	0.8	45.0	54	-9.0	AV
		V	7307.0	47.9	8.2	56.1	74	-17.9	PK
		V	7307.0	35.6	8.2	43.8	54	-10.2	AV
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
	11	V	2463.8	81.2	31.2	114.4	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4927.0	57.3	0.9	58.2	74	-15.8	PK
		V	4927.0	43.4	0.9	44.3	54	-9.7	AV
		V	7392.0	52.7	8.5	61.2	74	-12.8	PK
		V	7392.0	38.2	8.5	46.7	54	-7.3	AV
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK

802.11n(40MHz)

Chain	CH	Antenna	Frequen cy (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
0	3	V	2432.3	73.8	31.2	109.1	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4842.0	50.7	0.7	51.4	54	-2.6	PK
		V	7266.0	43.0	9.6	52.6	54	-1.4	PK
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
	6	V	2435.3	74.2	31.2	105.4	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4876.0	50.1	0.8	50.9	54	-3.1	PK
		V	7324.0	44.9	8.3	53.2	54	-0.8	PK
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
	9	V	2466.0	75.2	31.2	107.9	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4893.0	47.0	0.9	47.9	54	-6.1	PK

		V	7356.0	44.7	8.4	53.1	54	-0.9	PK
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
1	3	V	2426.8	76.1	31.2	110.0	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4842.0	49.5	0.7	50.2	54	-3.8	PK
		V	7266.0	43.4	8.3	51.7	54	-2.3	PK
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
	6	V	2435.3	77.2	31.2	108.4	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4876.0	50.9	0.8	51.7	54	-2.3	PK
		V	7324.0	44.4	8.3	52.7	54	-1.3	PK
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
	9	V	2456.6	76.2	31.2	107.7	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4910.0	48.9	0.9	49.8	54	-4.2	PK
		V	7356.0	43.4	8.4	51.8	54	-2.2	PK
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
0+1	3	V	2429.8	77.2	31.2	110.2	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4842.0	52.9	0.7	53.6	54	-0.4	PK
		V	7266.0	43.9	8.3	52.2	54	-1.8	PK
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
	6	V	2436.5	78.4	31.2	109.6	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
		V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4876.0	52.4	0.8	53.2	54	-0.8	PK
		V	7324.0	43.9	8.3	52.2	54	-1.8	PK
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK

		V	2459.7	77.8	31.2	106.9	Fundamental	/	PK
		H	479.8	21.1	21.2	42.4	46	-3.7	QP
		H	799.7	18.5	25.5	44.0	46	-2.0	QP
	9	V	3210.0	48.8	-4.2	44.6	54	-9.4	PK
		V	4910.0	51.9	0.9	52.8	54	-1.2	PK
		V	7375.0	45.1	8.4	53.5	54	-0.5	PK
		V	24000.0	59.1	-8.9	50.2	54	-3.8	PK

Note 1: This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

5. RF Antenna Conducted Spurious

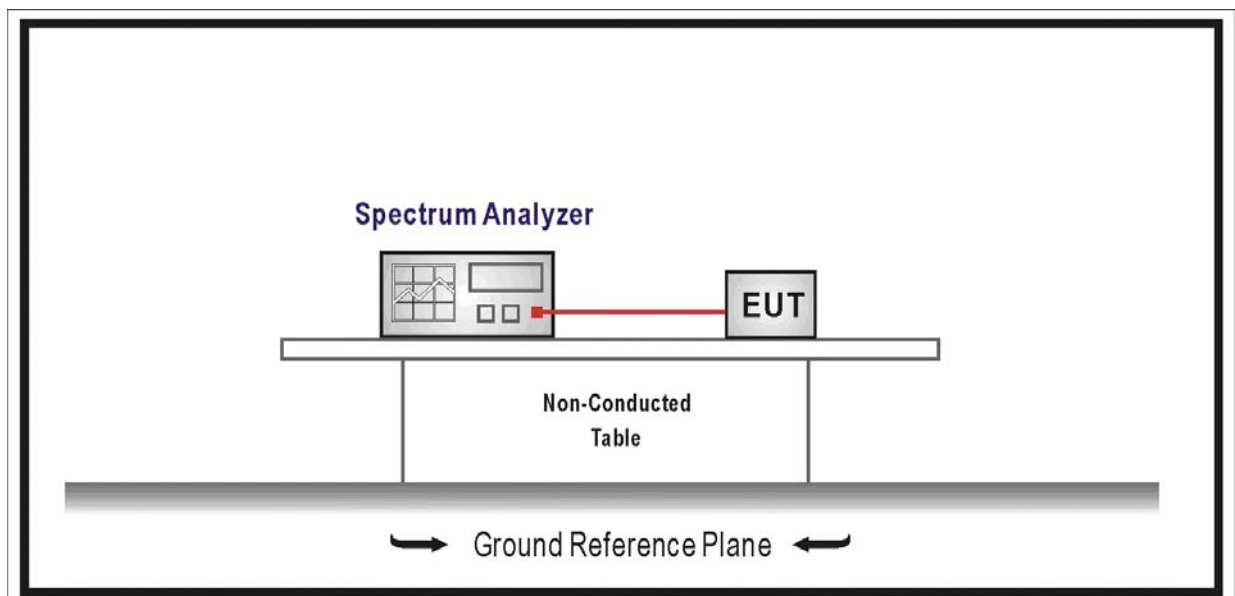
5.1. Test Equipment

RF Antenna Conducted Spurious / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2009/05/06
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2009/03/30

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

5.2. Test Setup



5.3. Limit

In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.4. 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 = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

5.6. Test Result

Product	:	Home Gateway
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 0)

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



Product	:	Home Gateway
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 0)

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



Product	:	Home Gateway
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 3: Transmit at 802.11n (20MHz) (Chain 0)

Channel 01 (2412MHz)



Agilent Spectrum Analyzer - Swept SA

Marker 1 2.439906238280 GHz

Input: RF PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB

Avg Type: Log-Pwr

Ref Offset 0.8 dB Ref 20.00 dBm

Mkr1 2.440 GHz 0.002 dBm

Start 30 MHz Stop 25.00 GHz

#Res BW 100 kHz #VBW 300 kHz Sweep 2.39 s (8000 pts)

MSG STATUS

Peak Search

Next Peak

Next Right

Next Left

Marker Delta

Mkr->CF

Mkr->Ref Lvl

More

Agilent Spectrum Analyzer - Swept SA

50 Ω AC SENSE:INT ALIGN OFF 02:05:04 AM Nov 29, 2009

Marker 1 2.461757719715 GHz

Input: RF PNO: Fast Trig: Free Run Avg Type: Log-Pwr

IF Gain: Low #Atten: 30 dB

TRACE 1 2 3 4 5
TYPE M
DET P N N N N

Ref Offset 0.8 dB
Ref 20.00 dBm

Mkr1 2.462 GHz -0.275 dBm

10 dB/div Log

Start 30 MHz Stop 25.00 GHz
#Res BW 100 kHz #VBW 300 kHz Sweep 2.39 s (8000 pts)

Product	:	Home Gateway
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 4: Transmit at 802.11n (40MHz) (Chain 0)

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



Product	:	Home Gateway
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 1: Transmit at 802.11b (Chain 1)

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



Product	:	Home Gateway
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 2: Transmit at 802.11g (Chain 1)

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



Product	:	Home Gateway
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 3: Transmit at 802.11n (20MHz) (Chain 1)

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



Product	:	Home Gateway
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 4: Transmit at 802.11n (40MHz) (Chain 1)

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



6. Radiated Emission Band Edge

6.1. Test Equipment

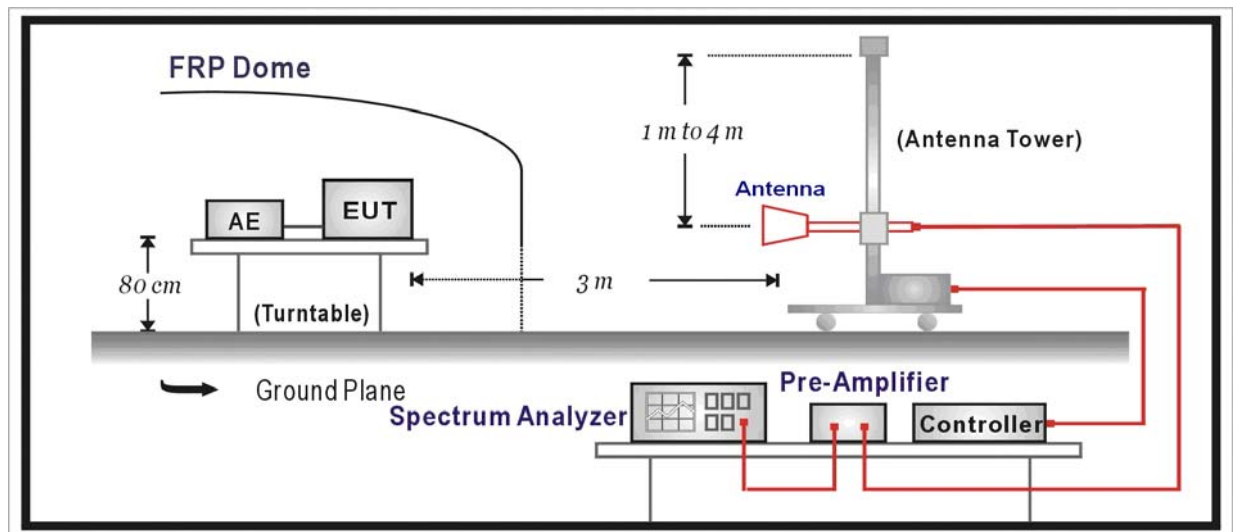
☒ Radiated Emission / AC-5

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2009.04.23
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2009.06.11
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC5-TH	2009.03.31

Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

Note 2: The test instruments marked with "X" are used to measure the final test results.

6.2. Test Setup



6.3. Limit

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)).

6.4. Test Procedure

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. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2003 on radiated measurement.

6.5. Uncertainty

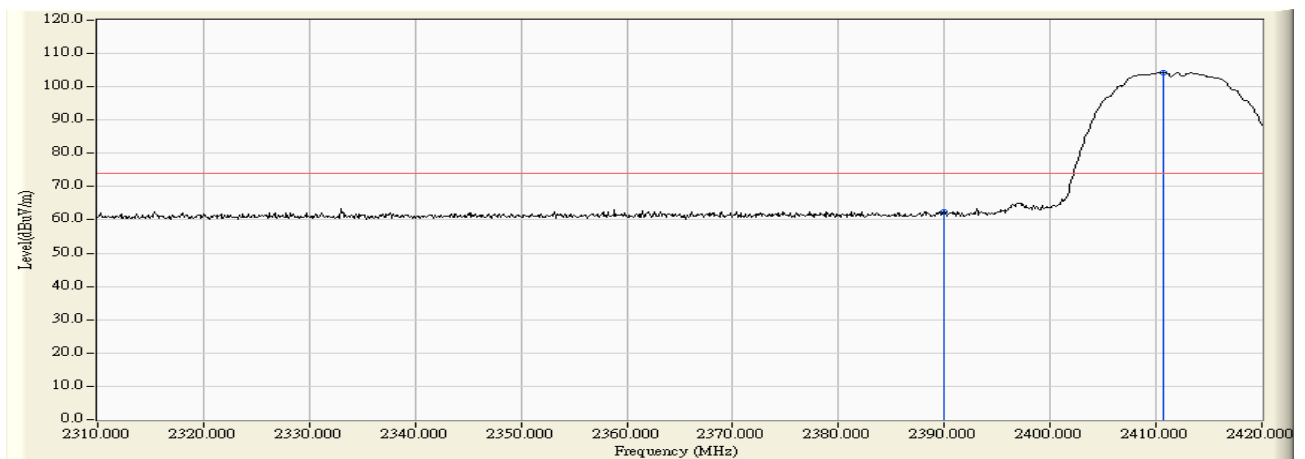
The measurement uncertainty above 1G is defined as ± 3.9 dB

6.6. Test Result

Peak detector: RBW = 1MHz, VBW = 3MHz, sweep time = 200ms;

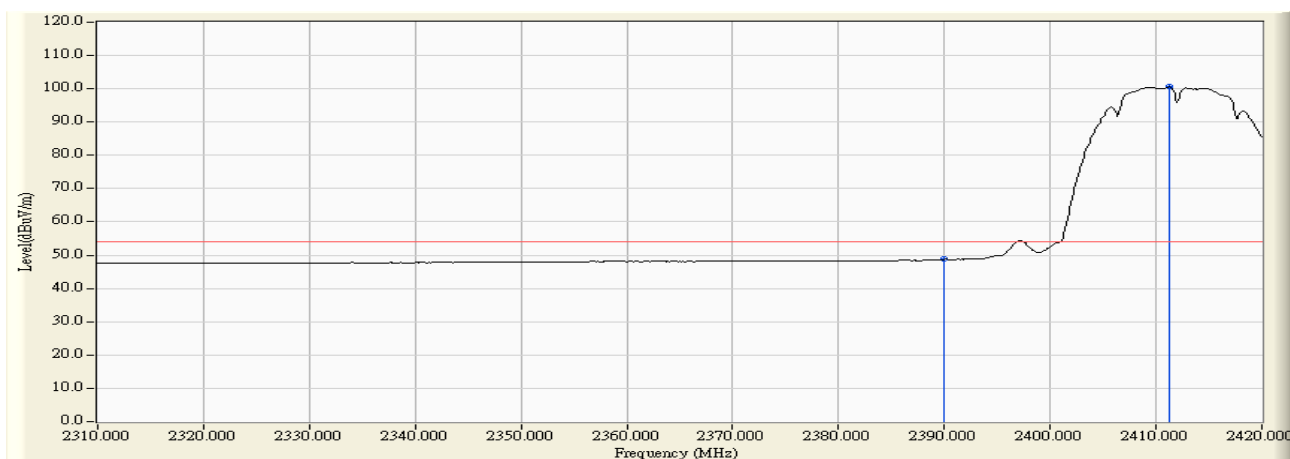
Average detector: RBW = 1MHz, VBW = 10Hz, sweep time = auto.

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 13:44
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 1: Transmit at channel 2412MHz By 802.11b (Chain 0)



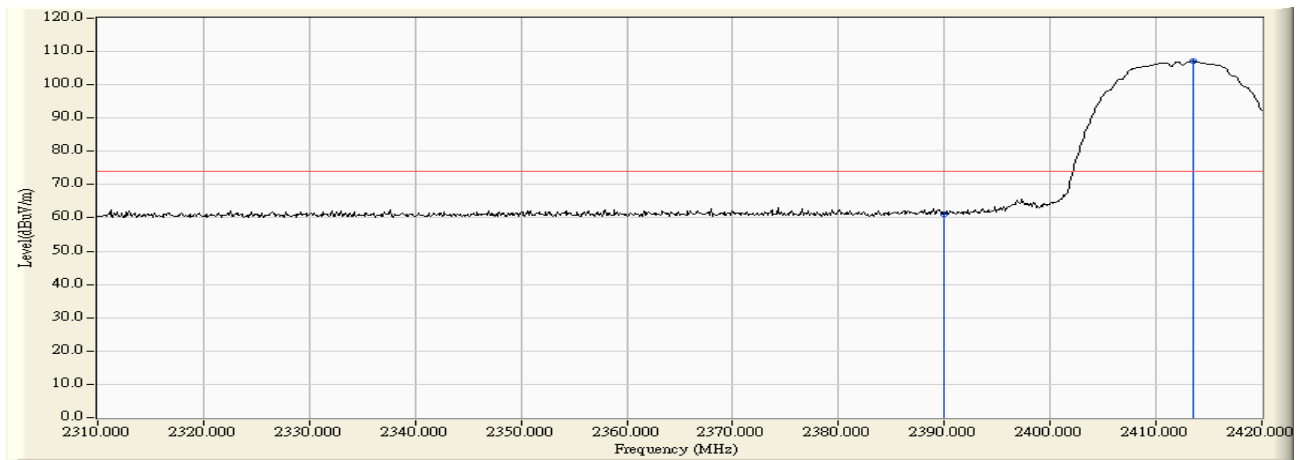
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	31.334	62.518	-11.452	73.970	PEAK
2	*	2410.650	31.189	73.028	104.217	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 13:44
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 1: Transmit at channel 2412MHz By 802.11b (Chain 0)



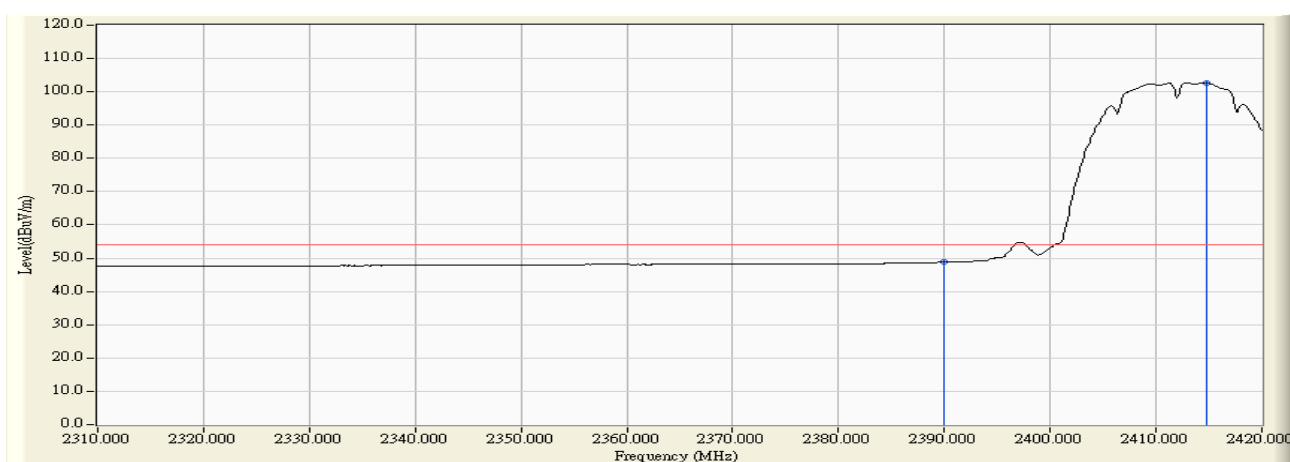
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	17.562	48.746	-5.224	53.970	AVERAGE
2	*	2411.200	31.190	69.382	100.572	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 13:46
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 1: Transmit at channel 2412MHz By 802.11b (Chain 0)



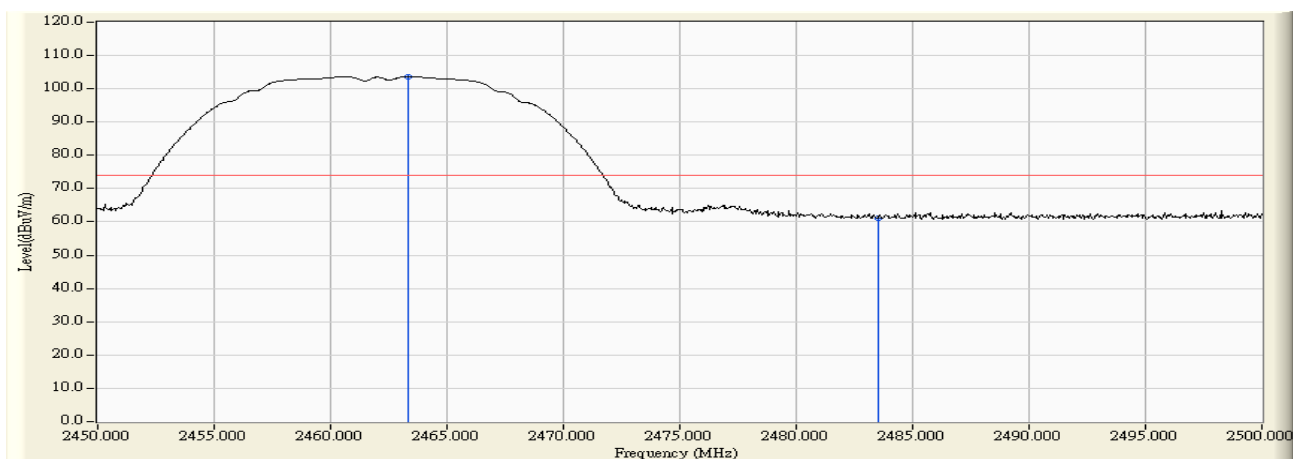
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	30.071	61.255	-12.715	73.970	PEAK
2	*	2413.510	31.192	75.795	106.987	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 13:47
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 1: Transmit at channel 2412MHz By 802.11b (Chain 0)



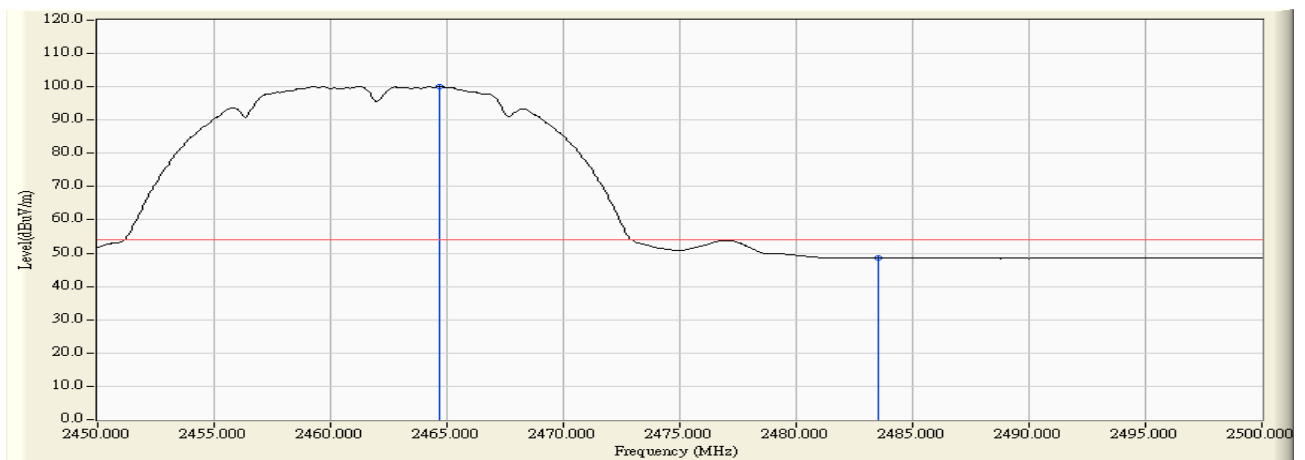
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	17.667	48.851	-5.119	53.970	AVERAGE
2	*	2414.720	31.193	71.594	102.787	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 13:49
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 1: Transmit at channel 2462MHz By 802.11b (Chain 0)



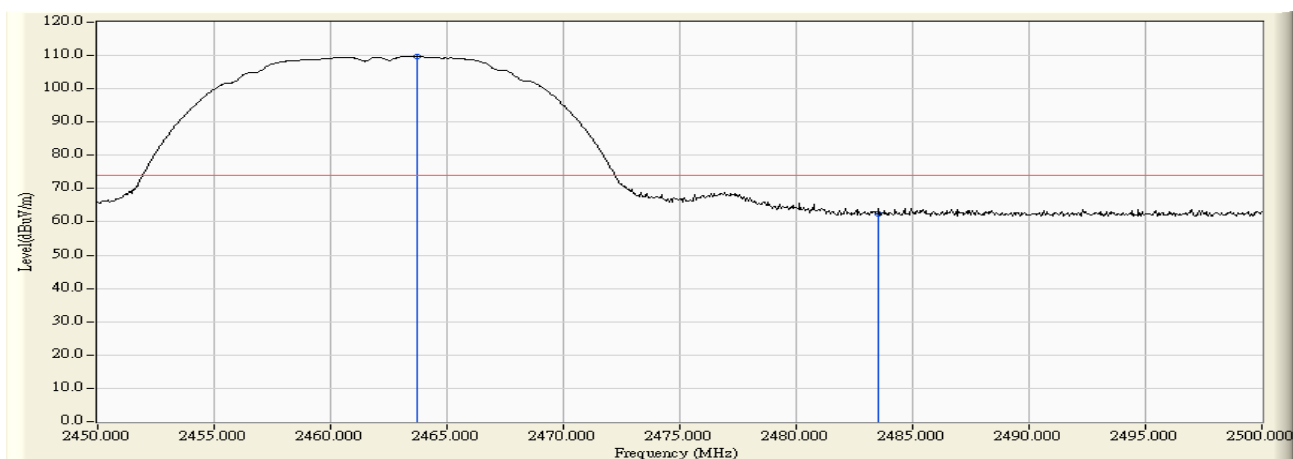
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.350	31.224	72.378	103.602	N/A	N/A	PEAK
2		2483.500	31.212	30.034	61.246	-12.724	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 13:49
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 1: Transmit at channel 2462MHz By 802.11b (Chain 0)



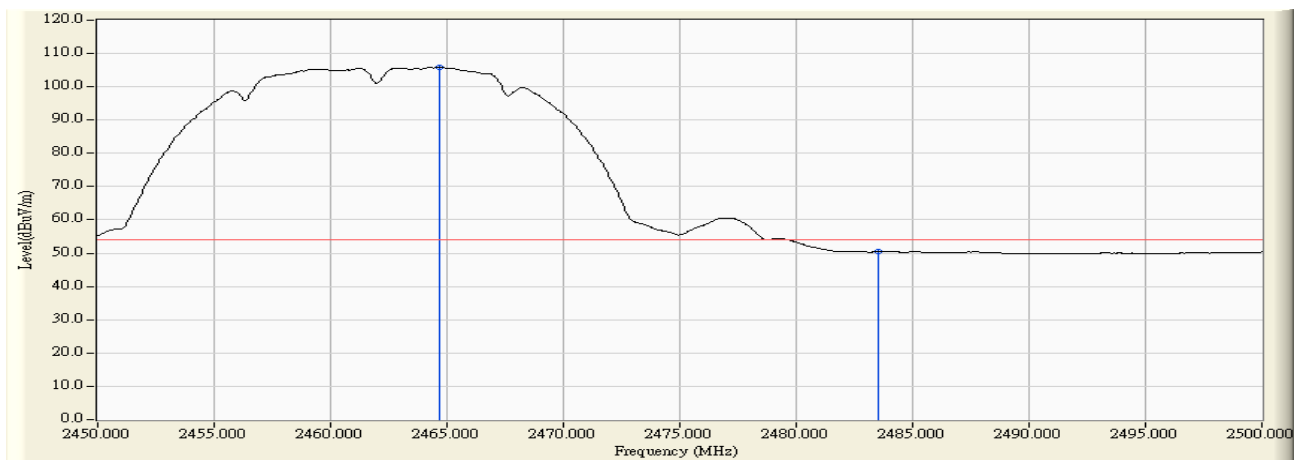
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.700	31.223	68.827	100.051	N/A	N/A	AVERAGE
2		2483.500	31.212	17.321	48.533	-5.437	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 13:52
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 1: Transmit at channel 2462MHz By 802.11b (Chain 0)



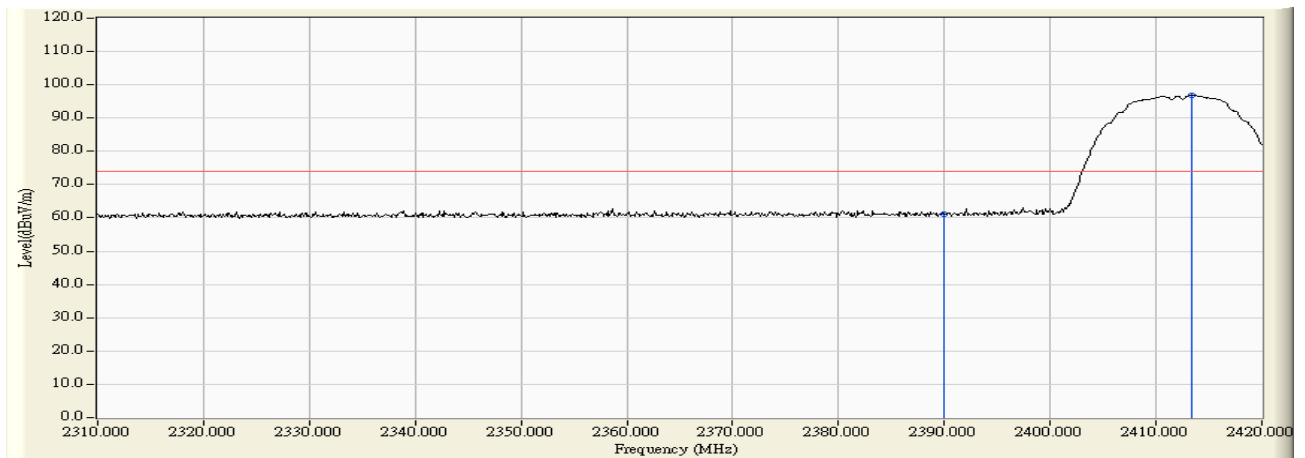
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.750	31.224	78.526	109.750	N/A	N/A	PEAK
2		2483.500	31.212	31.308	62.520	-11.450	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 13:52
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 1: Transmit at channel 2462MHz By 802.11b (Chain 0)



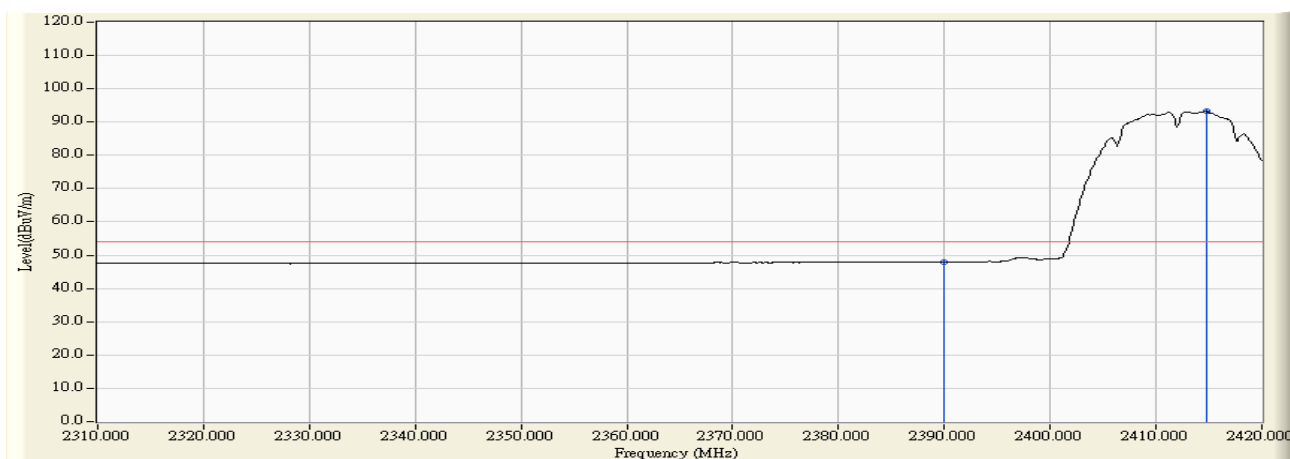
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.700	31.223	74.736	105.960	N/A	N/A	AVERAGE
2		2483.500	31.212	19.186	50.398	-3.572	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 13:54
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 1: Transmit at channel 2412MHz By 802.11b (Chain 1)



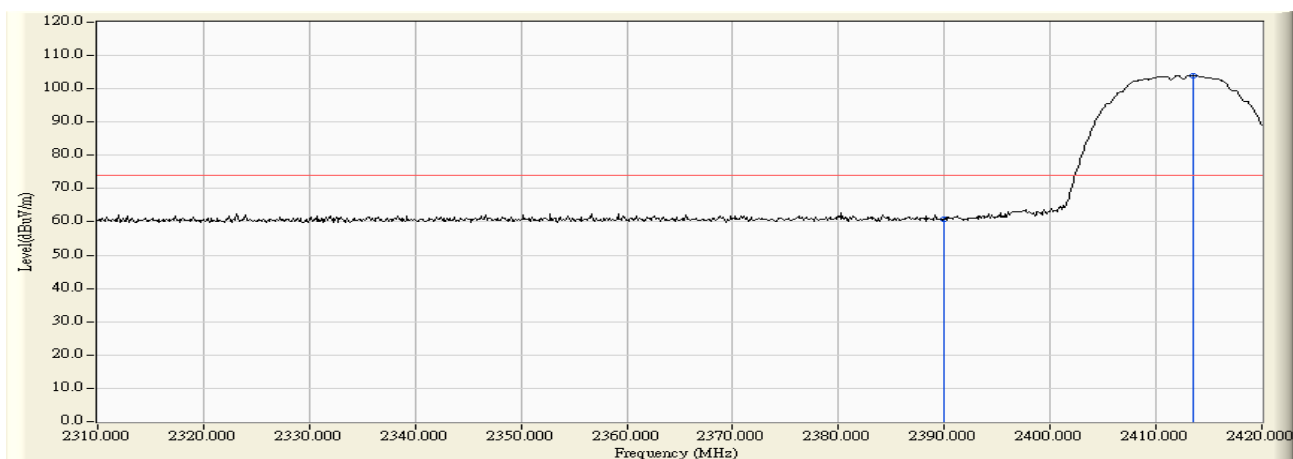
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	29.890	61.074	-12.896	73.970	PEAK
2	*	2413.400	31.192	65.609	96.801	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 13:54
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 1: Transmit at channel 2412MHz By 802.11b (Chain 1)



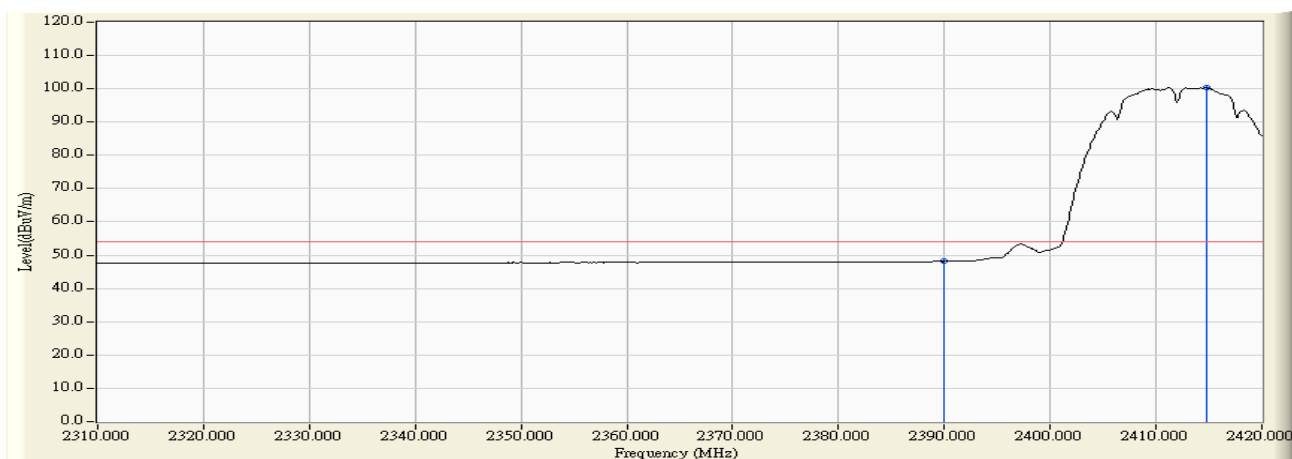
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	16.712	47.896	-6.074	53.970	AVERAGE
2	*	2414.720	31.193	61.966	93.159	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 13:56
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 1: Transmit at channel 2412MHz By 802.11b (Chain 1)



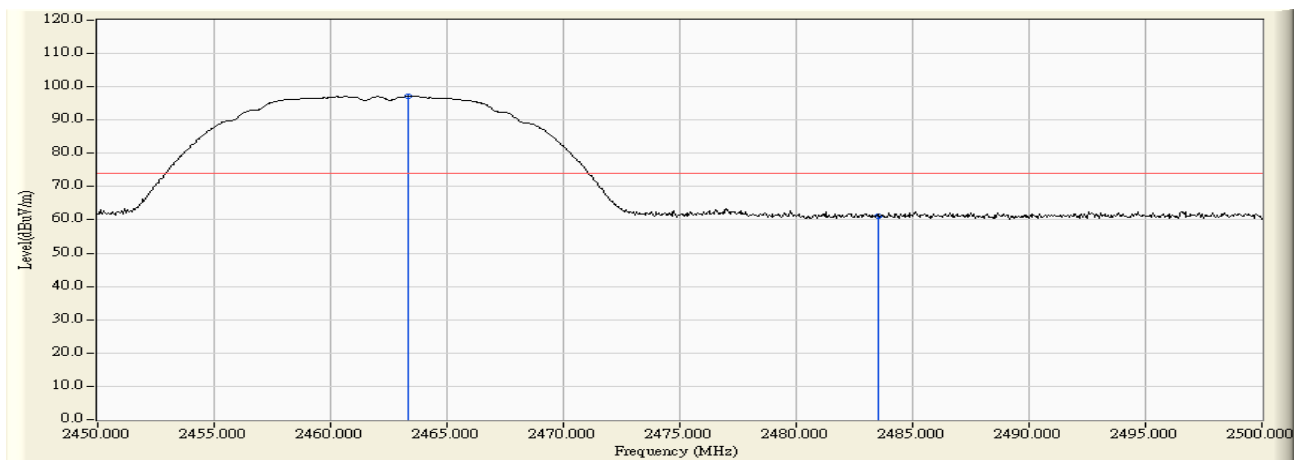
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	29.673	60.857	-13.113	73.970	PEAK
2	*	2413.510	31.192	72.781	103.973	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 13:56
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 1: Transmit at channel 2412MHz By 802.11b (Chain 1)



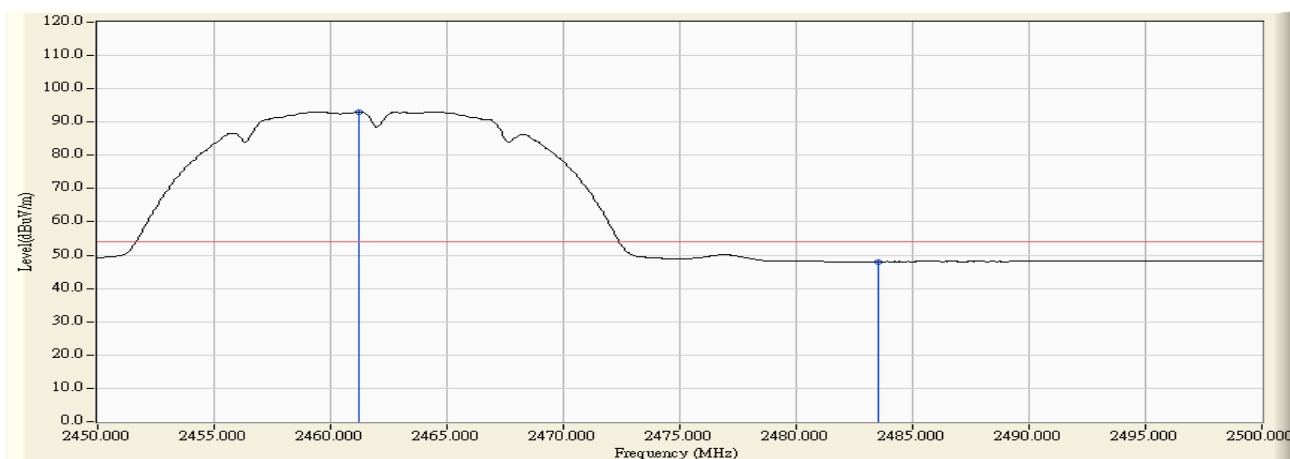
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	16.919	48.103	-5.867	53.970	AVERAGE
2	*	2414.720	31.193	69.139	100.332	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 13:58
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 1: Transmit at channel 2462MHz By 802.11b (Chain 1)



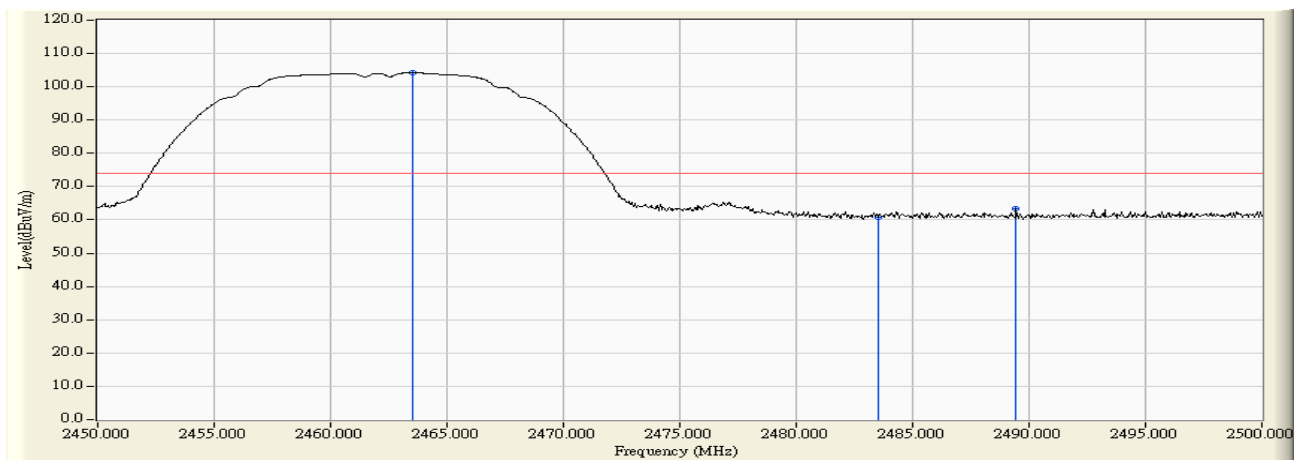
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.350	31.224	65.838	97.062	N/A	N/A	PEAK
2		2483.500	31.212	29.938	61.150	-12.820	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 13:58
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 1: Transmit at channel 2462MHz By 802.11b (Chain 1)



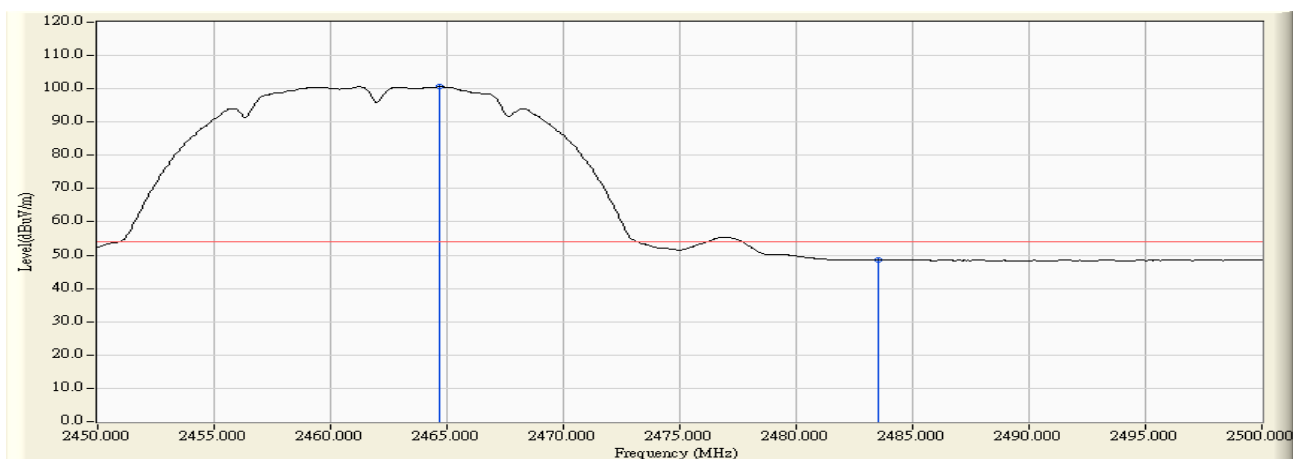
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.250	31.225	61.907	93.132	N/A	N/A	AVERAGE
2		2483.500	31.212	16.844	48.056	-5.914	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 13:59
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 1: Transmit at channel 2462MHz By 802.11b (Chain 1)



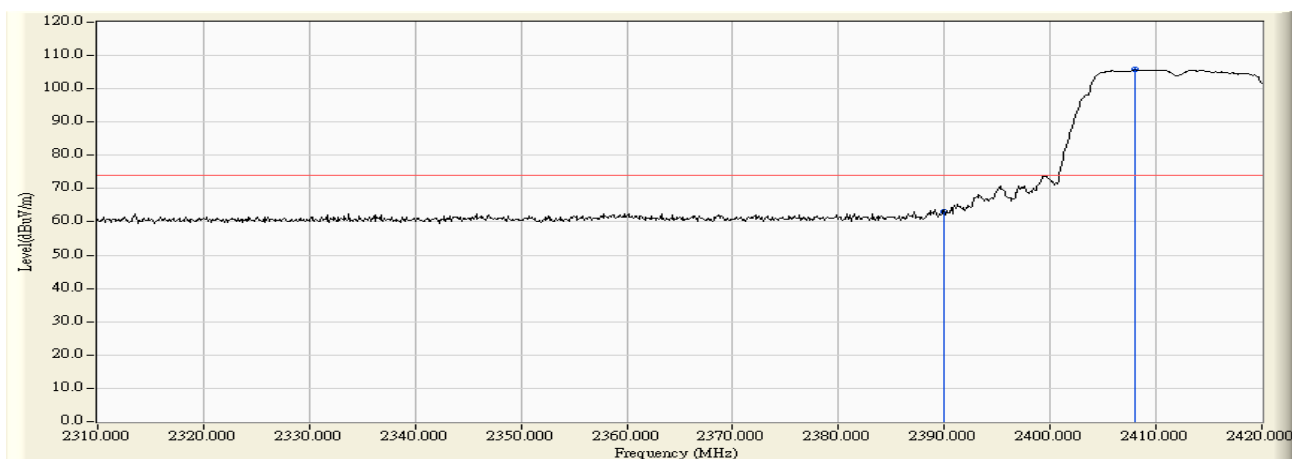
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.500	31.224	73.006	104.230	N/A	N/A	PEAK
2		2483.500	31.212	29.708	60.920	-13.050	73.970	PEAK
3		2489.450	31.208	32.119	63.327	-10.643	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 13:59
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 1: Transmit at channel 2462MHz By 802.11b (Chain 1)



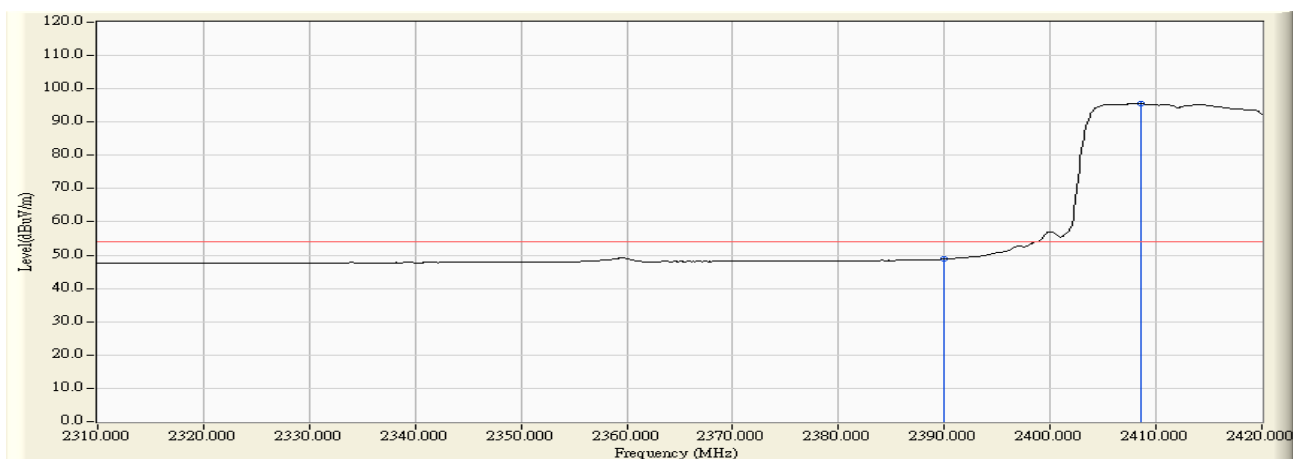
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.700	31.223	69.421	100.645	N/A	N/A	AVERAGE
2		2483.500	31.212	17.248	48.460	-5.510	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:01
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 2: Transmit at channel 2412MHz By 802.11g (Chain 0)



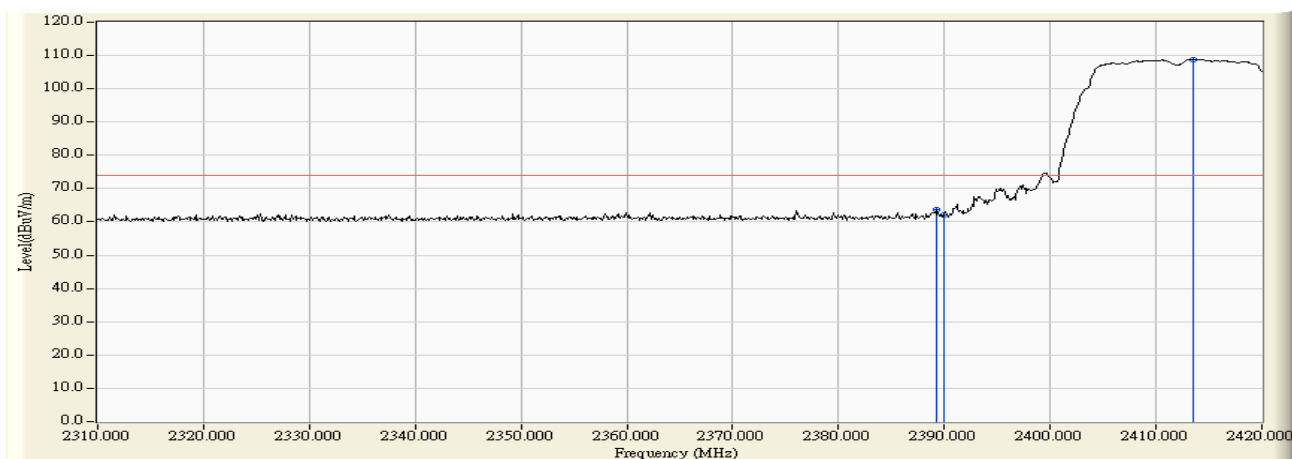
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	31.974	63.158	-10.812	73.970	PEAK
2	*	2408.010	31.188	74.497	105.685	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 2: Transmit at channel 2412MHz By 802.11g (Chain 0)



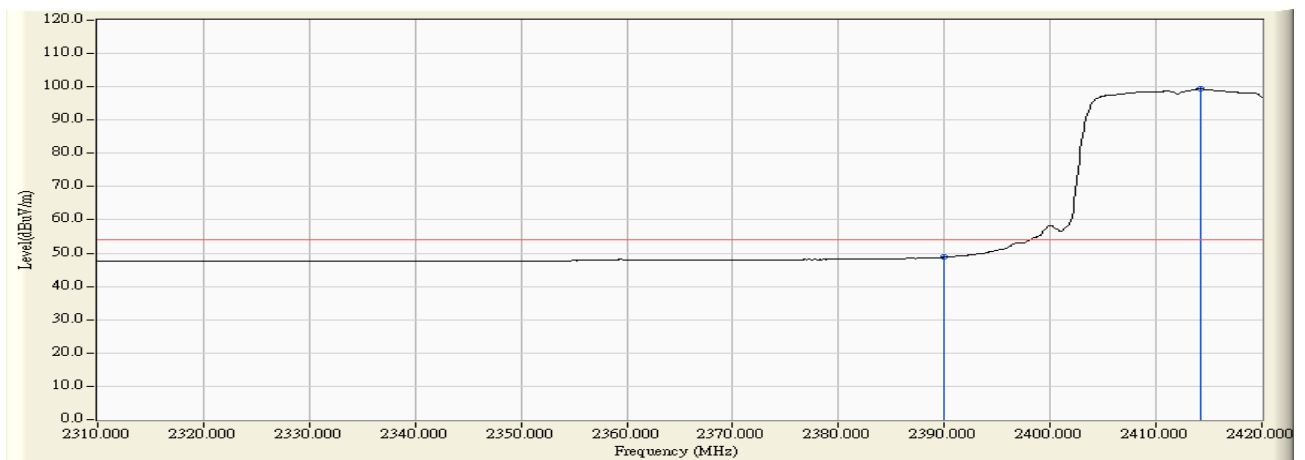
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	17.652	48.836	-5.134	53.970	AVERAGE
2	*	2408.560	31.188	64.300	95.488	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:04
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 2: Transmit at channel 2412MHz By 802.11g (Chain 0)



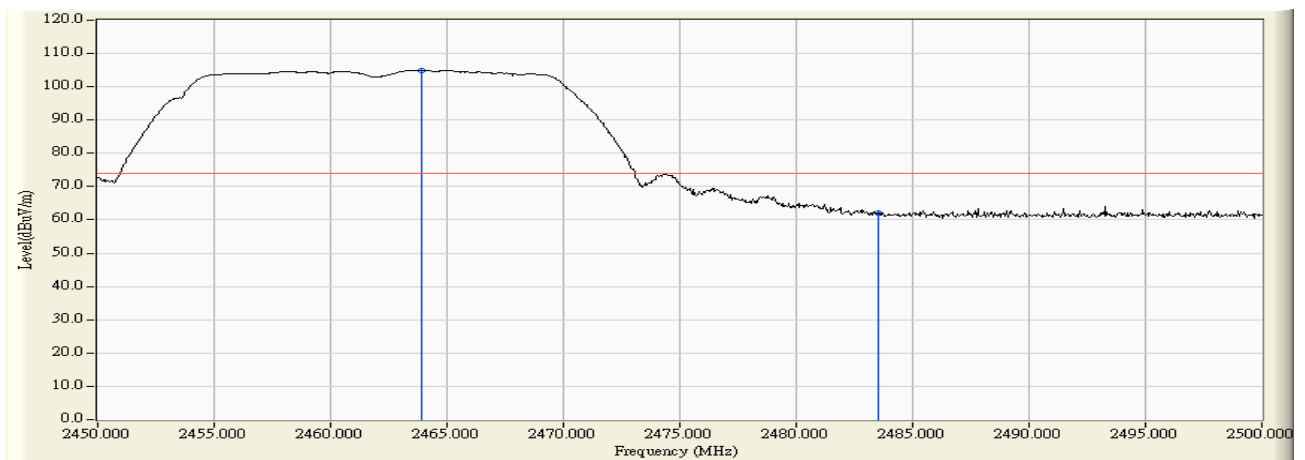
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2389.310	31.185	32.543	63.728	-10.242	73.970	PEAK
2		2390.000	31.184	30.809	61.993	-11.977	73.970	PEAK
3	*	2413.510	31.192	77.664	108.856	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:04
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 2: Transmit at channel 2412MHz By 802.11g (Chain 0)



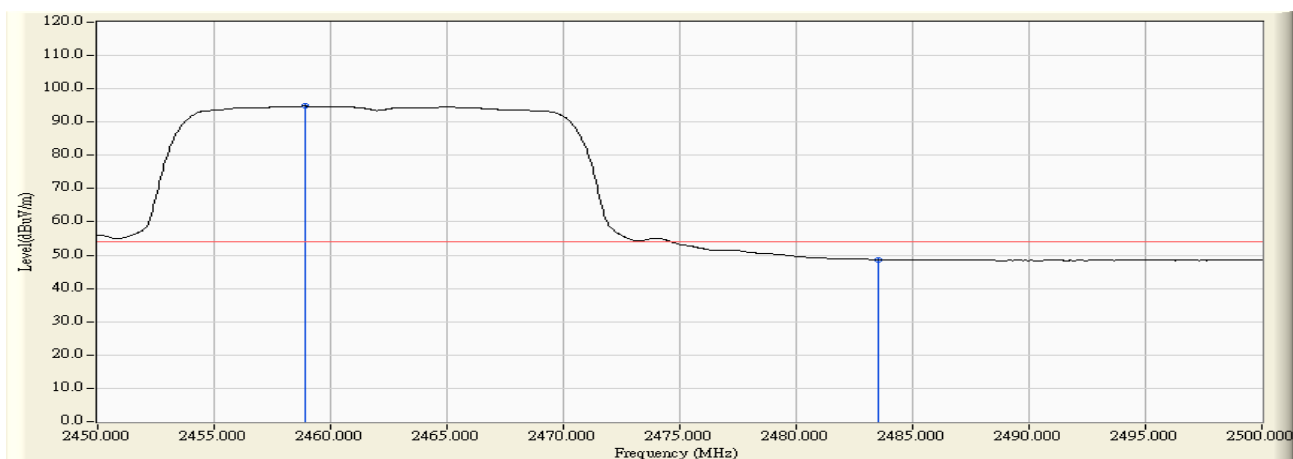
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	17.606	48.790	-5.180	53.970	AVERAGE
2	*	2414.170	31.192	68.125	99.317	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:06
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 2: Transmit at channel 2462MHz By 802.11g (Chain 0)



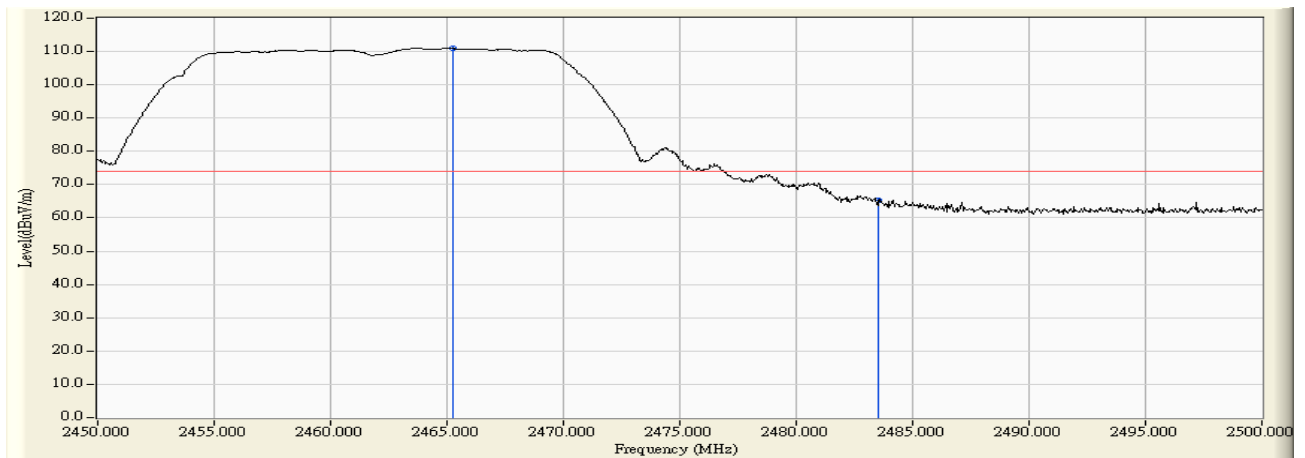
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.900	31.224	73.645	104.869	N/A	N/A	PEAK
2		2483.500	31.212	30.949	62.161	-11.809	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:06
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 2: Transmit at channel 2462MHz By 802.11g (Chain 0)



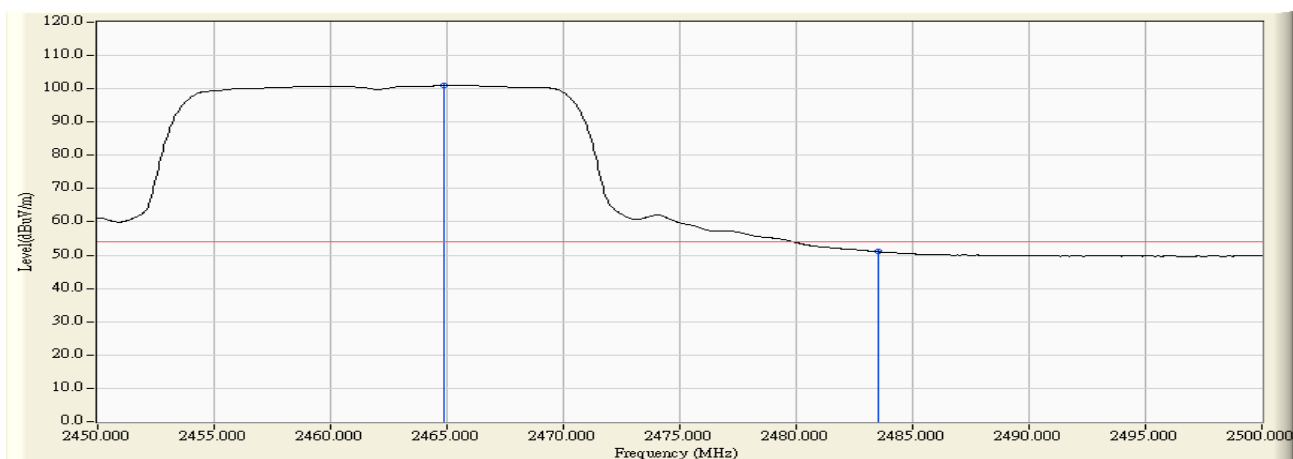
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2458.900	31.224	63.525	94.749	N/A	N/A	AVERAGE
2		2483.500	31.212	17.463	48.675	-5.295	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:08
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 2: Transmit at channel 2462MHz By 802.11g (Chain 0)



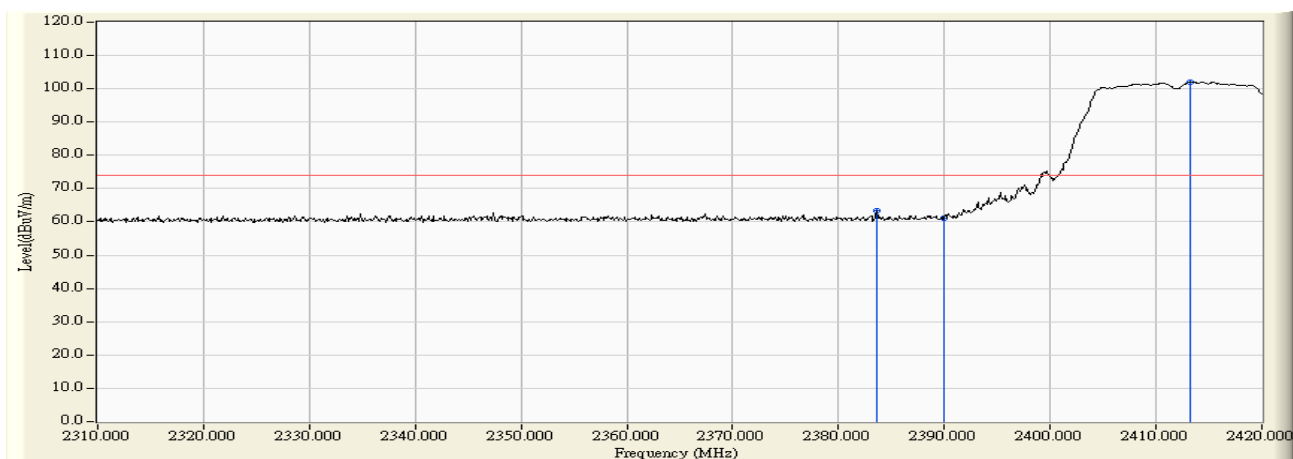
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2465.250	31.223	79.695	110.918	N/A	N/A	PEAK
2		2483.500	31.212	33.946	65.158	-8.812	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:08
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 2: Transmit at channel 2462MHz By 802.11g (Chain 0)



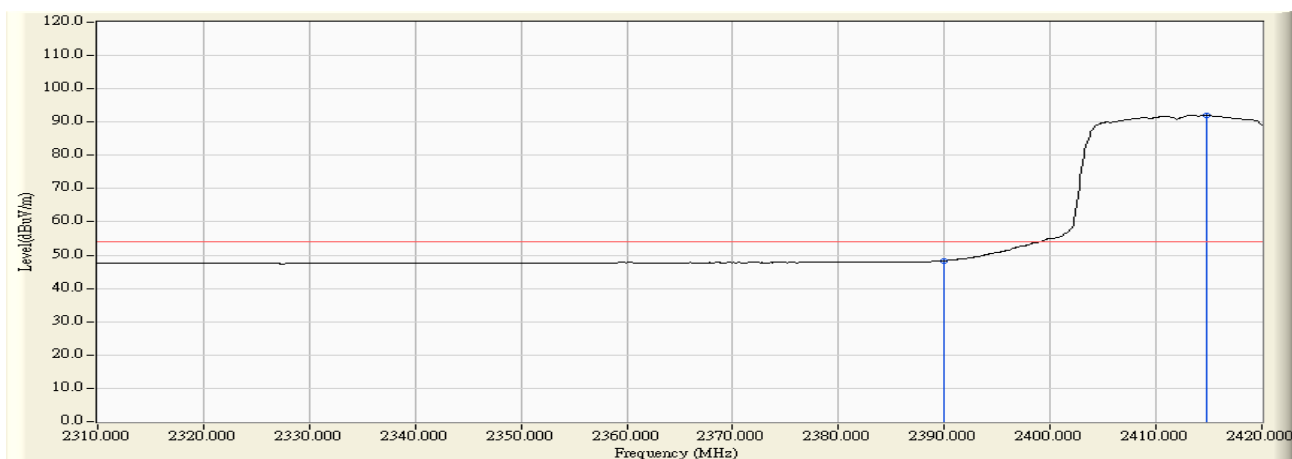
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.900	31.223	69.833	101.057	N/A	N/A	AVERAGE
2		2483.500	31.212	19.793	51.005	-2.965	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 2: Transmit at channel 2412MHz By 802.11g (Chain 1)



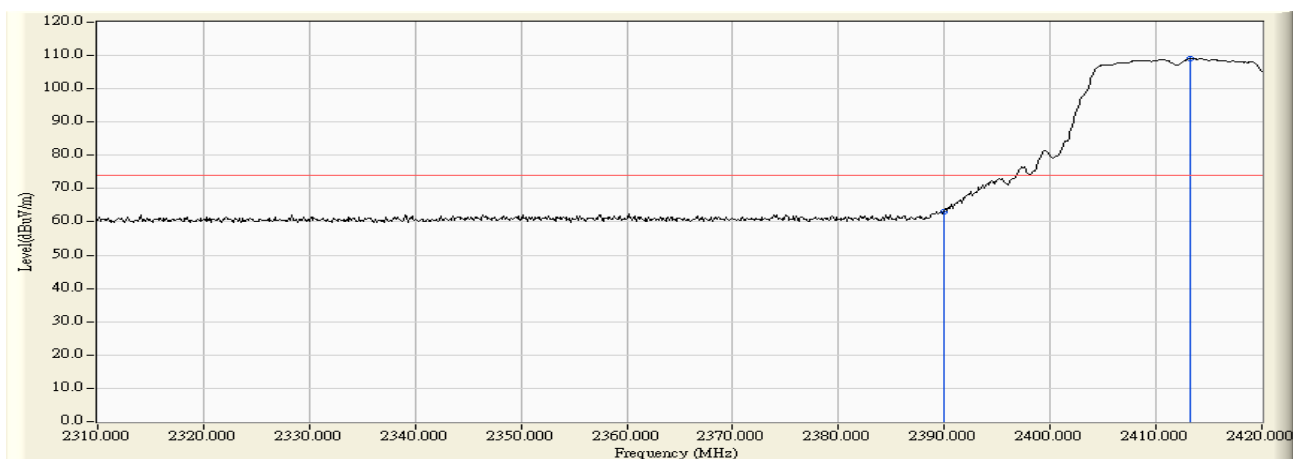
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2383.590	31.191	32.059	63.250	-10.720	73.970	PEAK
2		2390.000	31.184	29.919	61.103	-12.867	73.970	PEAK
3	*	2413.290	31.192	70.824	102.015	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 2: Transmit at channel 2412MHz By 802.11g (Chain 1)



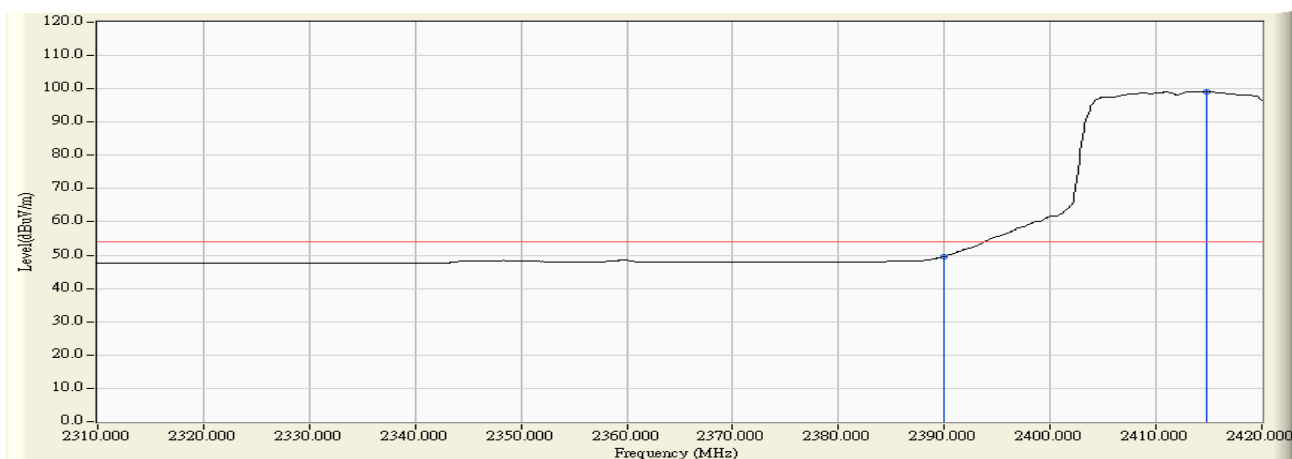
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	17.127	48.311	-5.659	53.970	AVERAGE
2	*	2414.830	31.193	60.897	92.090	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:12
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 2: Transmit at channel 2412MHz By 802.11g (Chain 1)



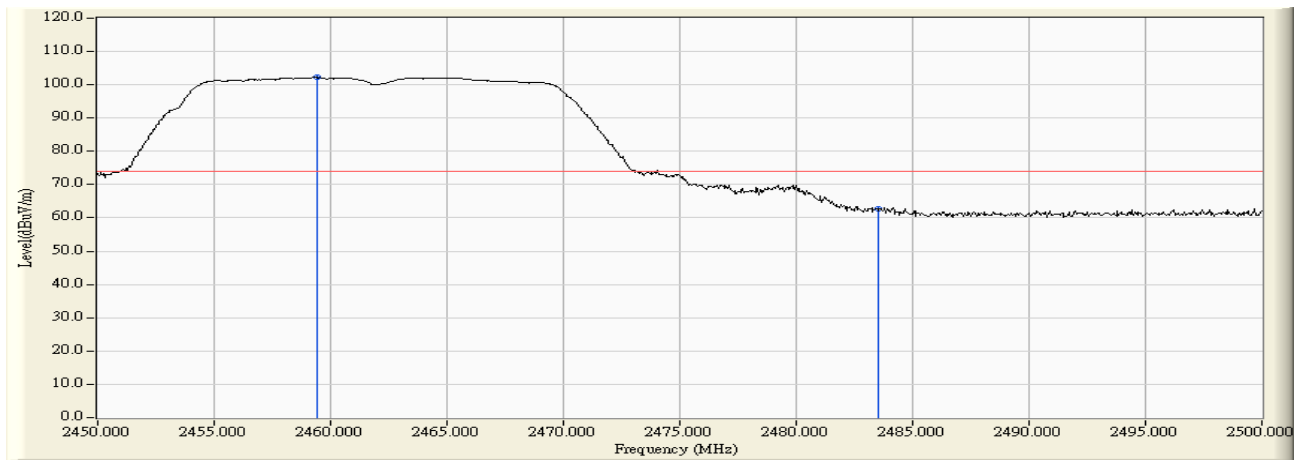
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	32.021	63.205	-10.765	73.970	PEAK
2	*	2413.290	31.192	77.831	109.022	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:13
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 2: Transmit at channel 2412MHz By 802.11g (Chain 1)



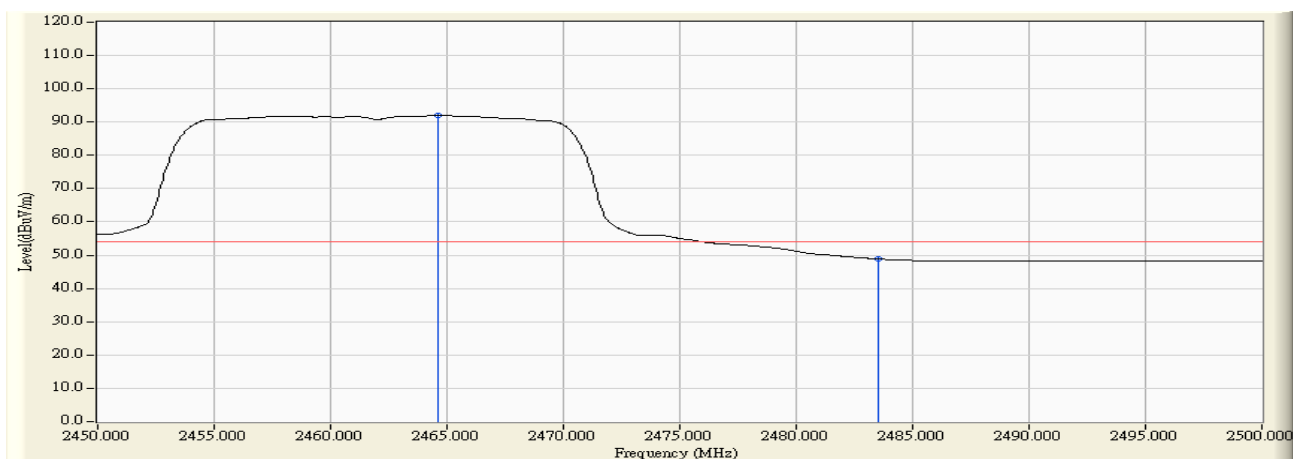
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	18.423	49.607	-4.363	53.970	AVERAGE
2	*	2414.830	31.193	68.043	99.236	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:14
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 2: Transmit at channel 2462MHz By 802.11g (Chain 1)



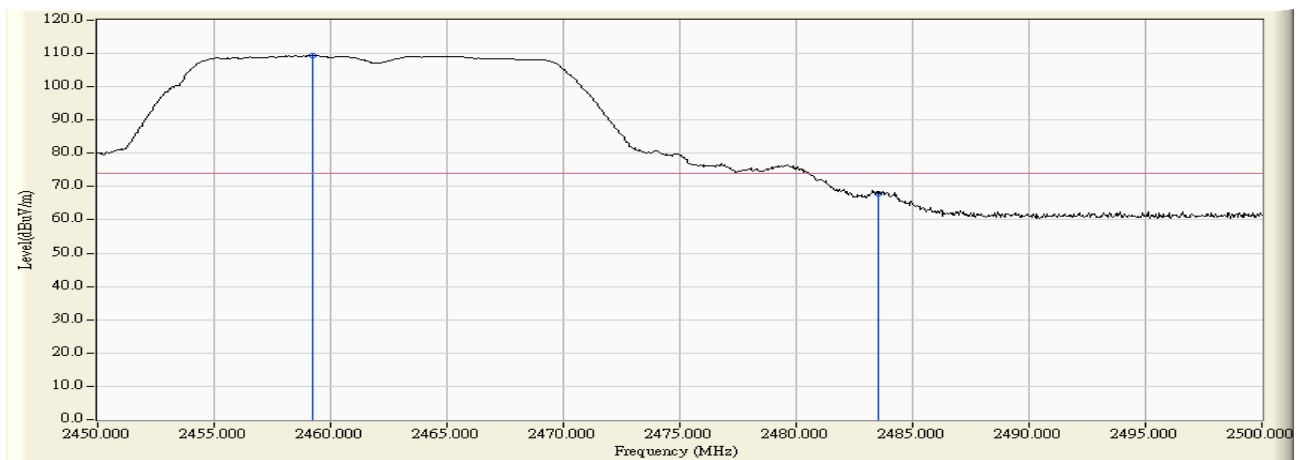
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2459.400	31.224	70.985	102.209	N/A	N/A	PEAK
2		2483.500	31.212	31.650	62.862	-11.108	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:15
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 2: Transmit at channel 2462MHz By 802.11g (Chain 1)



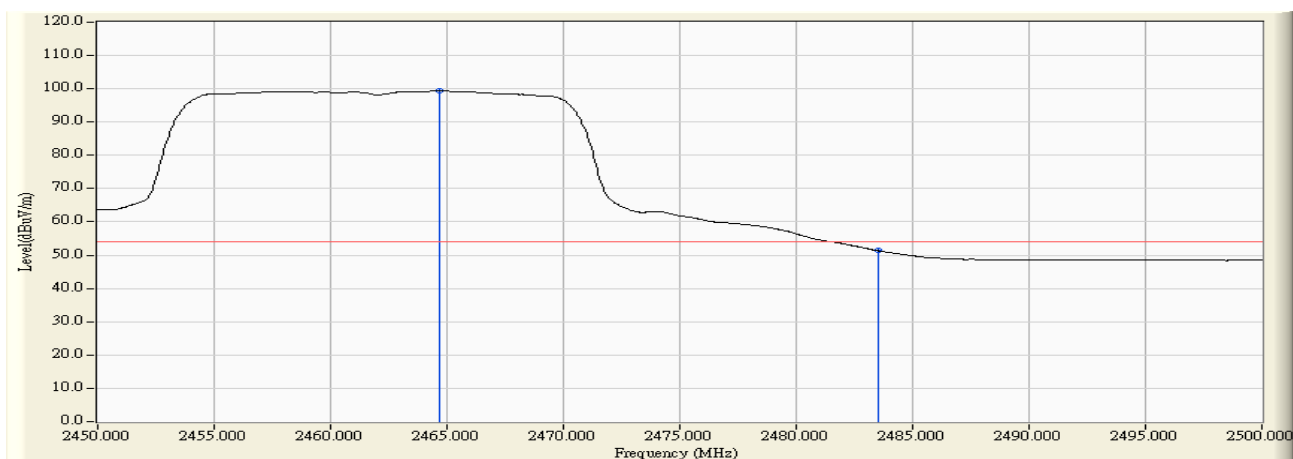
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.600	31.223	60.903	92.127	N/A	N/A	AVERAGE
2		2483.500	31.212	17.679	48.891	-5.079	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:15
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 2: Transmit at channel 2462MHz By 802.11g (Chain 1)



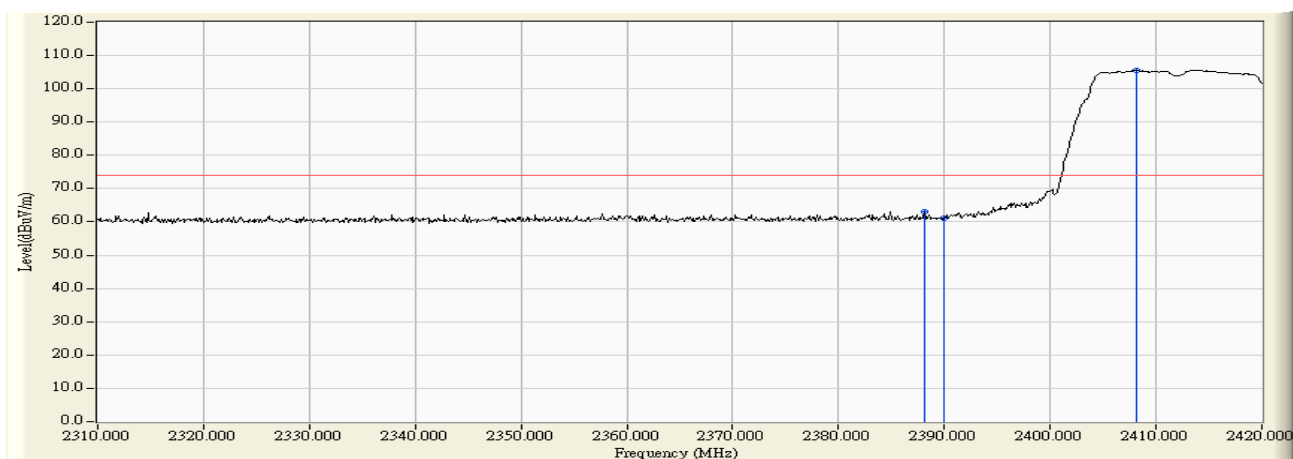
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2459.250	31.224	78.074	109.298	N/A	N/A	PEAK
2		2483.500	31.212	36.766	67.978	-5.992	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:16
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 2: Transmit at channel 2462MHz By 802.11g (Chain 1)



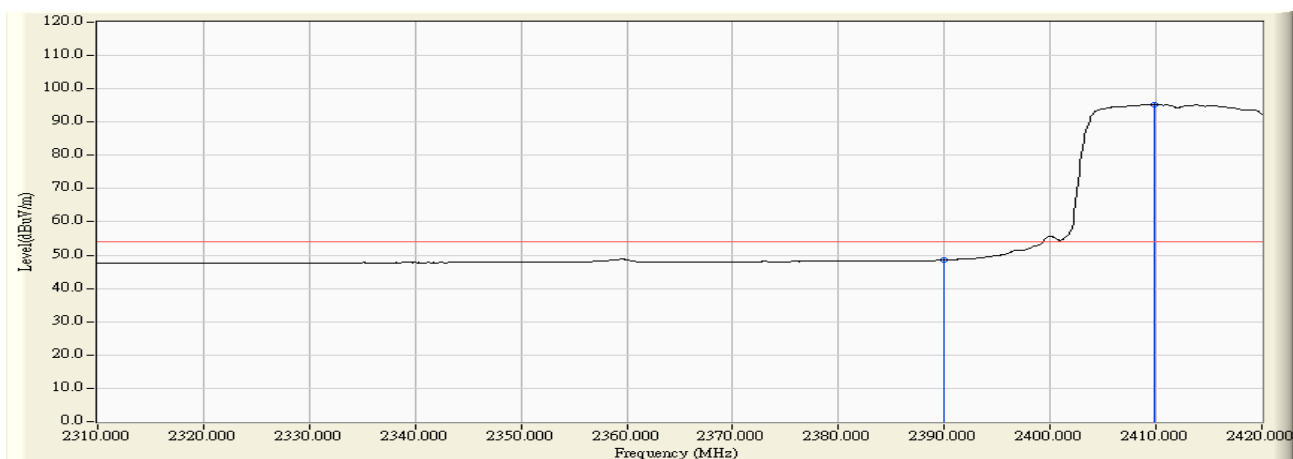
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.700	31.223	68.200	99.424	N/A	N/A	AVERAGE
2		2483.500	31.212	20.126	51.338	-2.632	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:17
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz) (Chain 0)



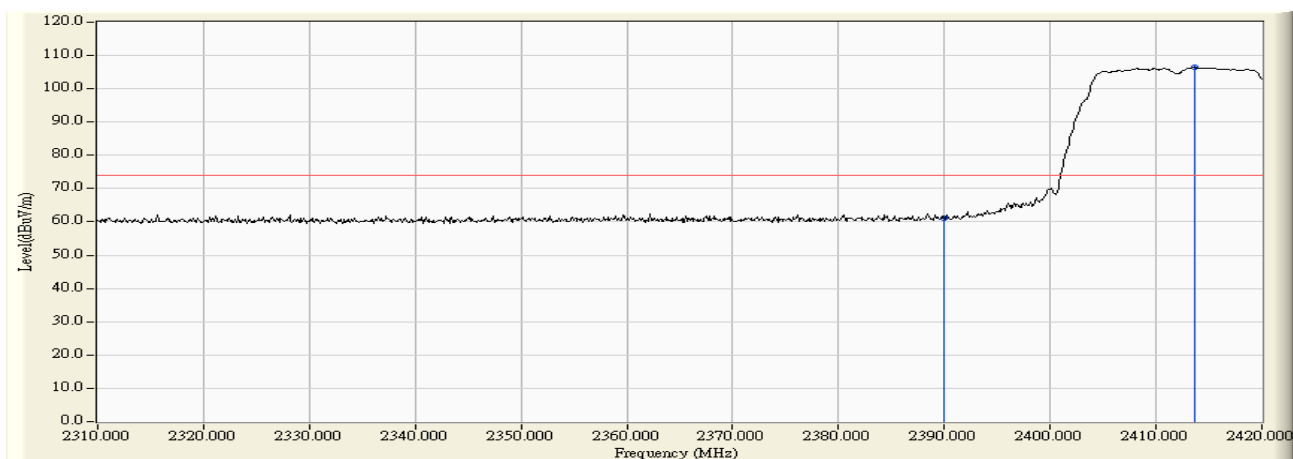
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2388.100	31.186	31.723	62.909	-11.061	73.970	PEAK
2		2390.000	31.184	29.843	61.027	-12.943	73.970	PEAK
3	*	2408.120	31.188	74.367	105.555	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:18
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz) (Chain 0)



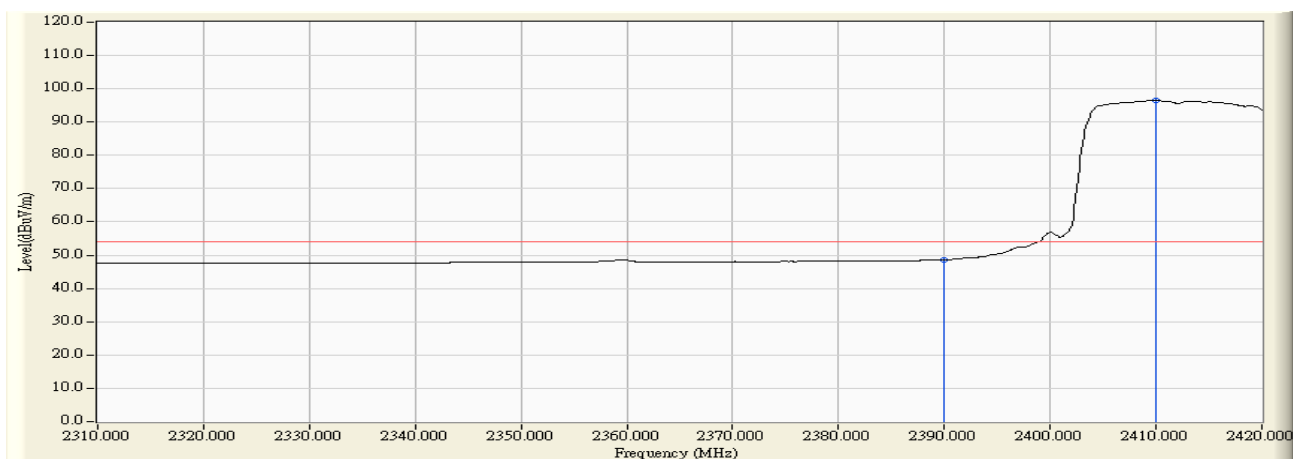
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	17.374	48.558	-5.412	53.970	AVERAGE
2	*	2409.880	31.189	64.115	95.304	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:19
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz) (Chain 0)



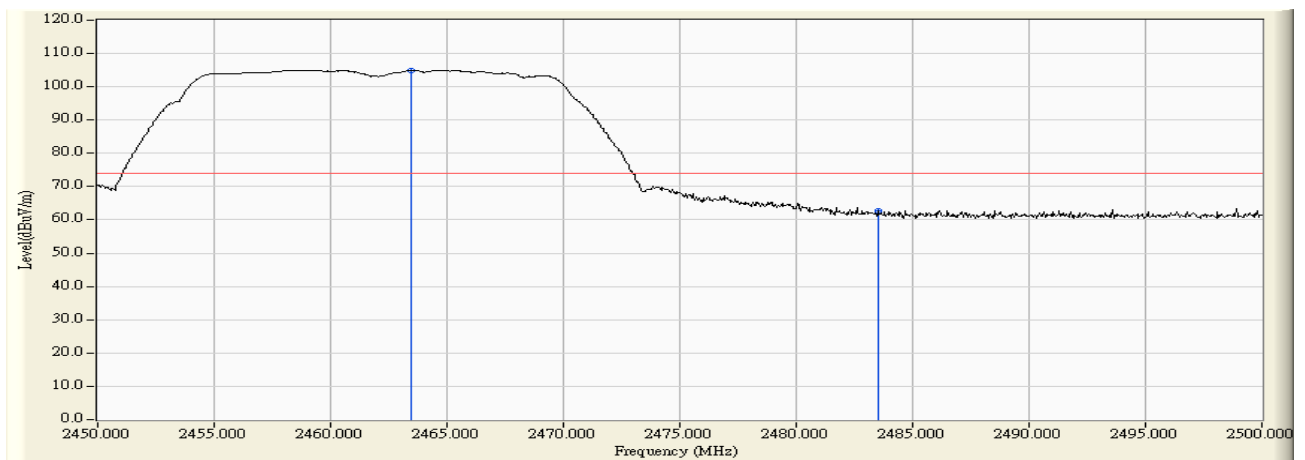
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	29.879	61.063	-12.907	73.970	PEAK
2	*	2413.620	31.191	75.149	106.341	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:20
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz) (Chain 0)



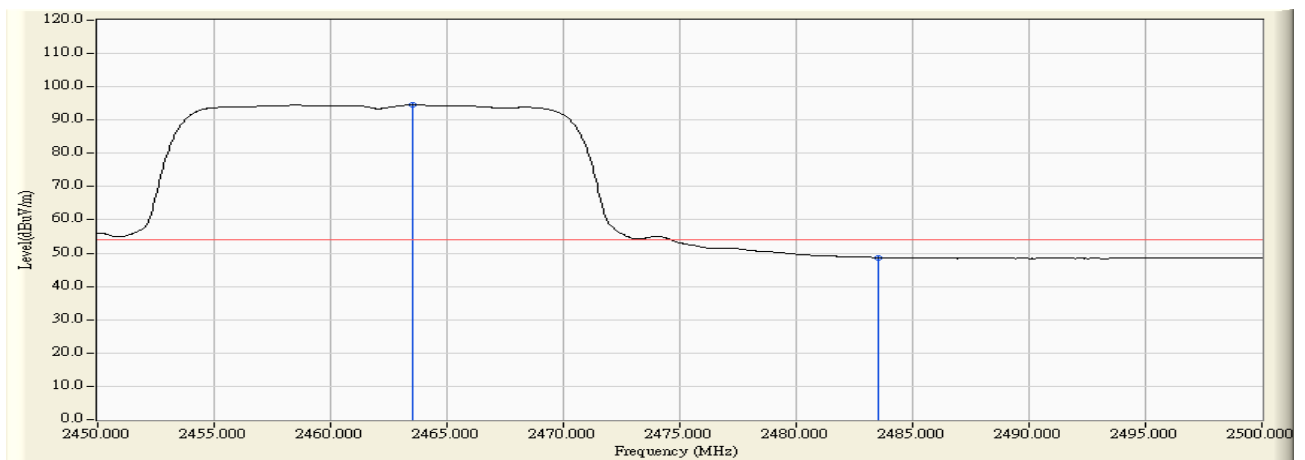
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	17.493	48.677	-5.293	53.970	AVERAGE
2	*	2409.990	31.189	65.301	96.490	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:22
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz) (Chain 0)



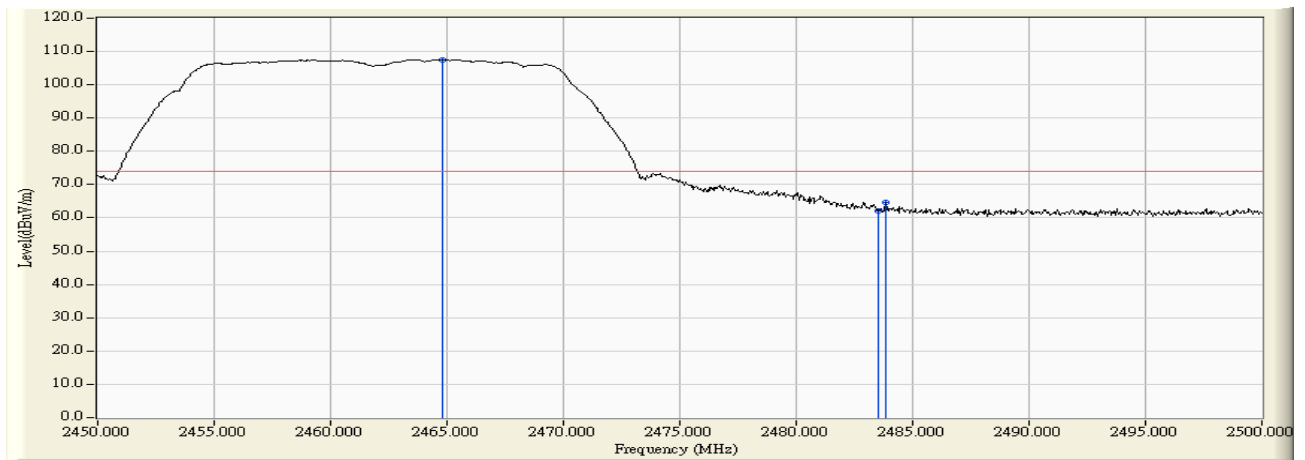
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.450	31.224	73.726	104.950	N/A	N/A	PEAK
2		2483.500	31.212	31.606	62.818	-11.152	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:22
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz) (Chain 0)



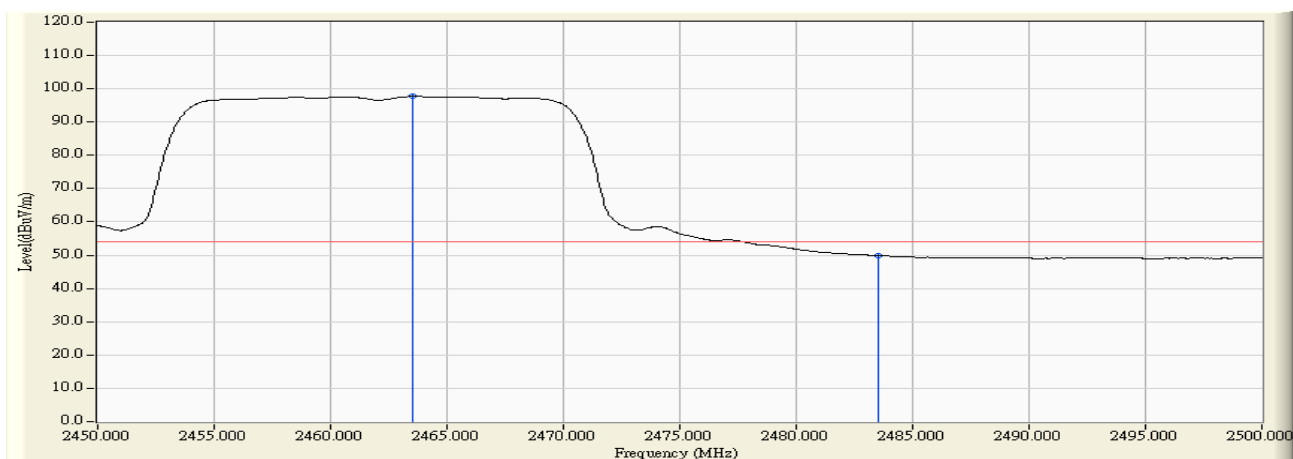
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.500	31.224	63.302	94.526	N/A	N/A	AVERAGE
2		2483.500	31.212	17.477	48.689	-5.281	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:23
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz) (Chain 0)



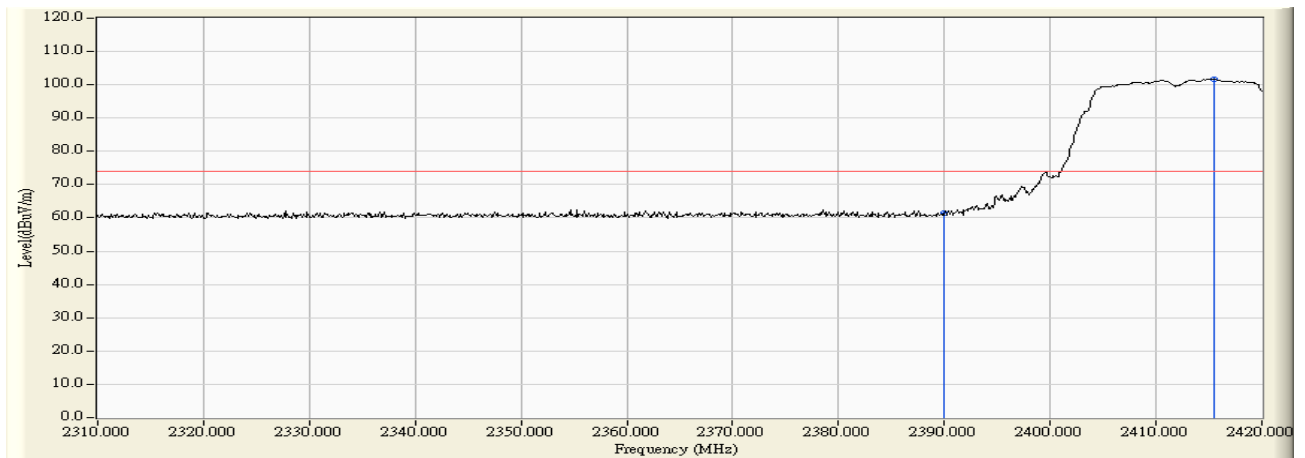
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.800	31.223	76.225	107.449	N/A	N/A	PEAK
2		2483.500	31.212	30.895	62.107	-11.863	73.970	PEAK
3		2483.850	31.212	33.444	64.656	-9.314	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:23
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz) (Chain 0)



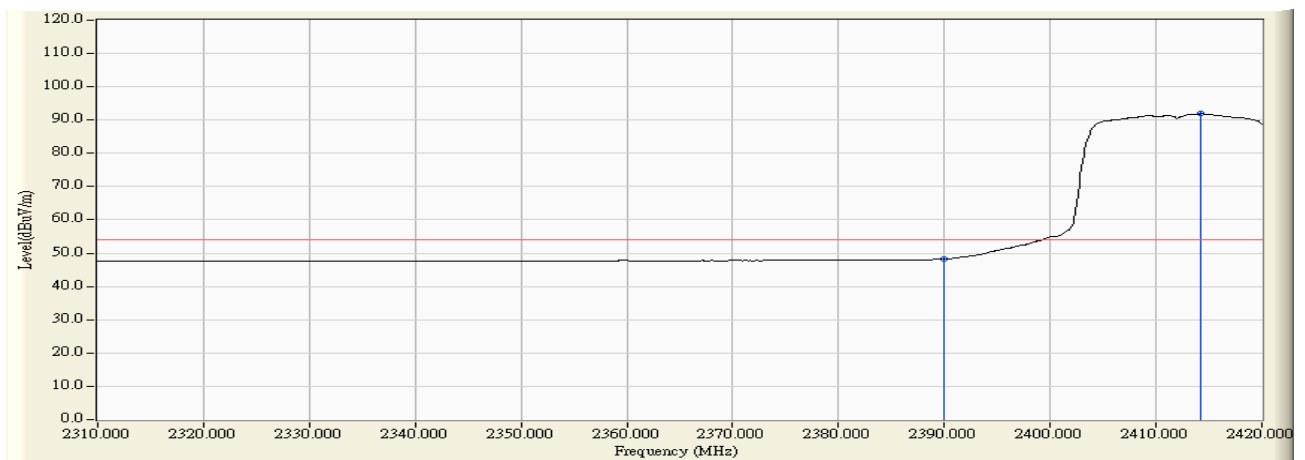
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.500	31.224	66.471	97.695	N/A	N/A	AVERAGE
2		2483.500	31.212	18.652	49.864	-4.106	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:25
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz) (Chain 1)



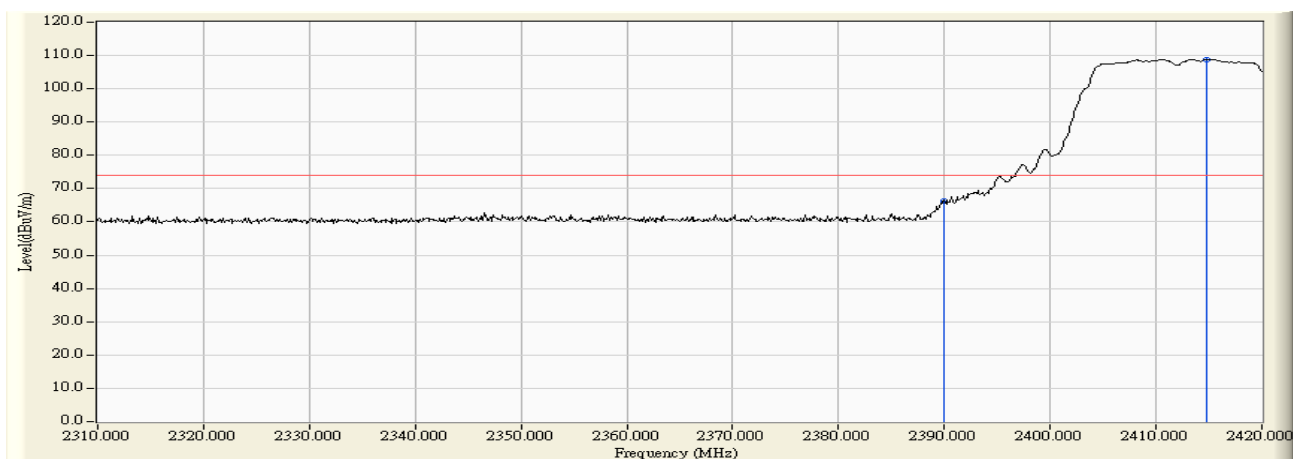
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	30.131	61.315	-12.655	73.970	PEAK
2	*	2415.490	31.193	70.475	101.668	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:26
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz) (Chain 1)



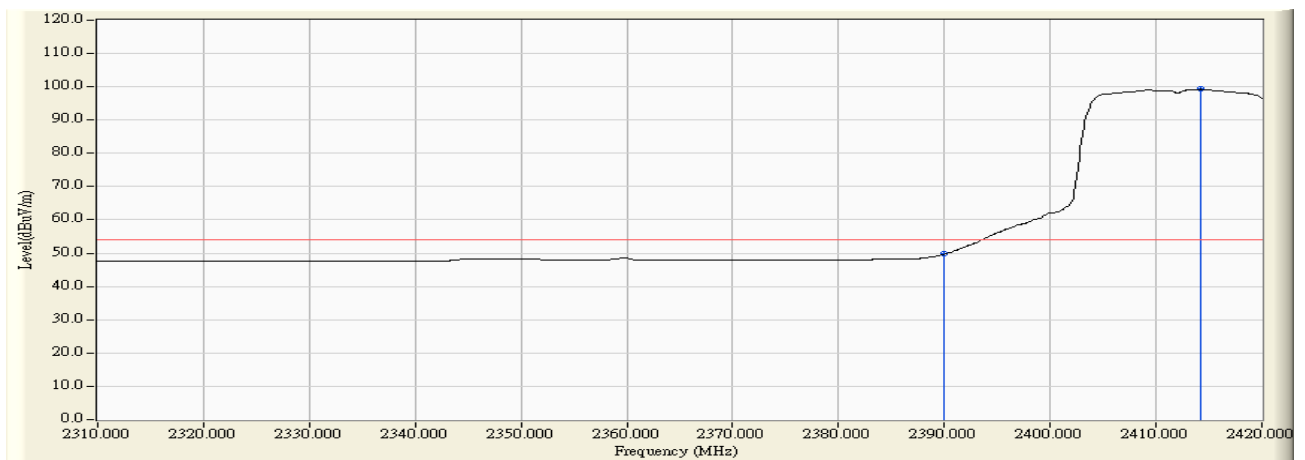
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	17.106	48.290	-5.680	53.970	AVERAGE
2	*	2414.280	31.192	60.662	91.854	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:26
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz) (Chain 1)



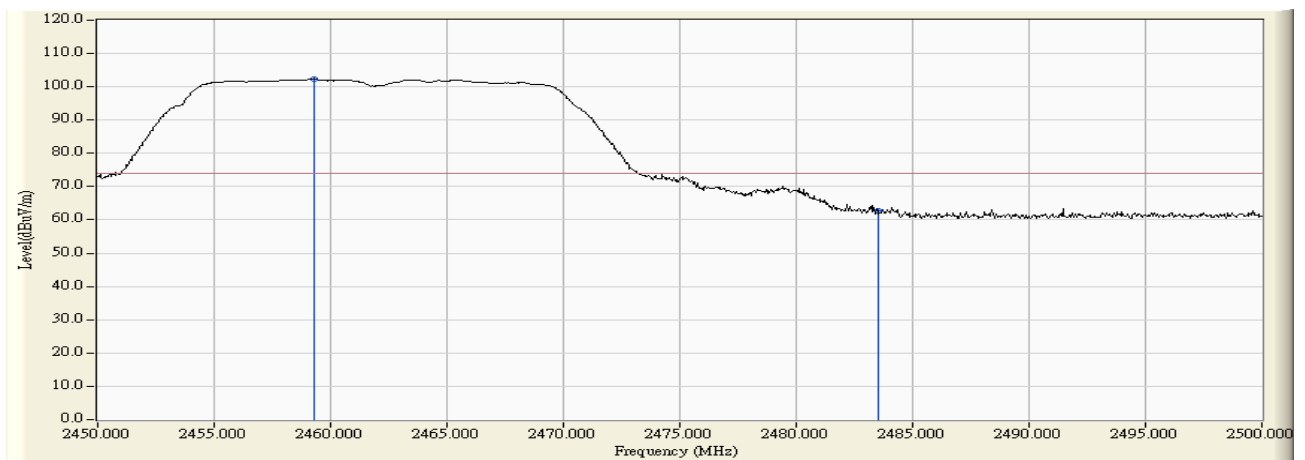
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	35.240	66.424	-7.546	73.970	PEAK
2	*	2414.830	31.193	77.632	108.825	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:27
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz) (Chain 1)



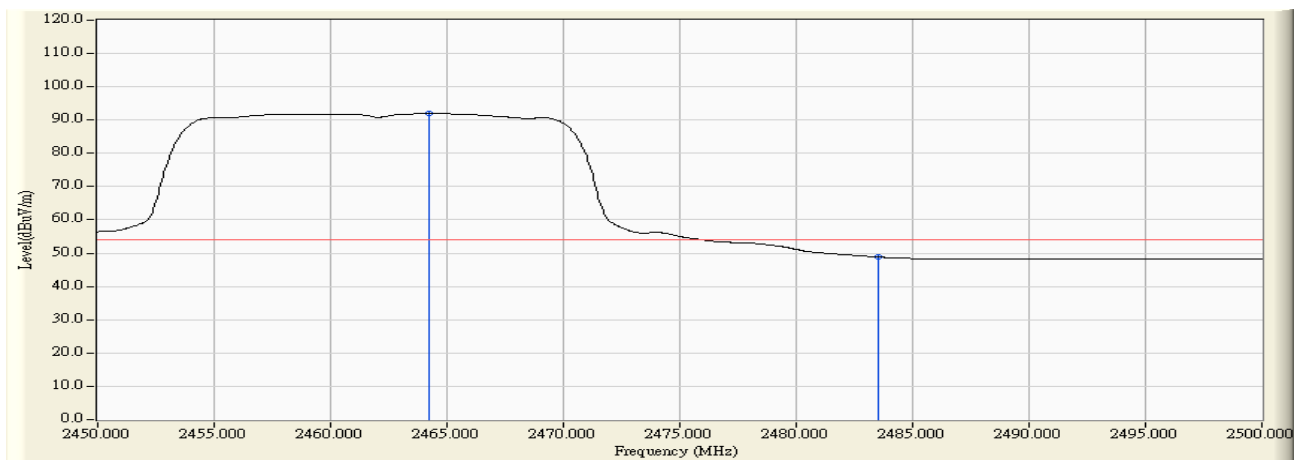
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	18.547	49.731	-4.239	53.970	AVERAGE
2	*	2414.280	31.192	68.059	99.251	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz) (Chain 1)



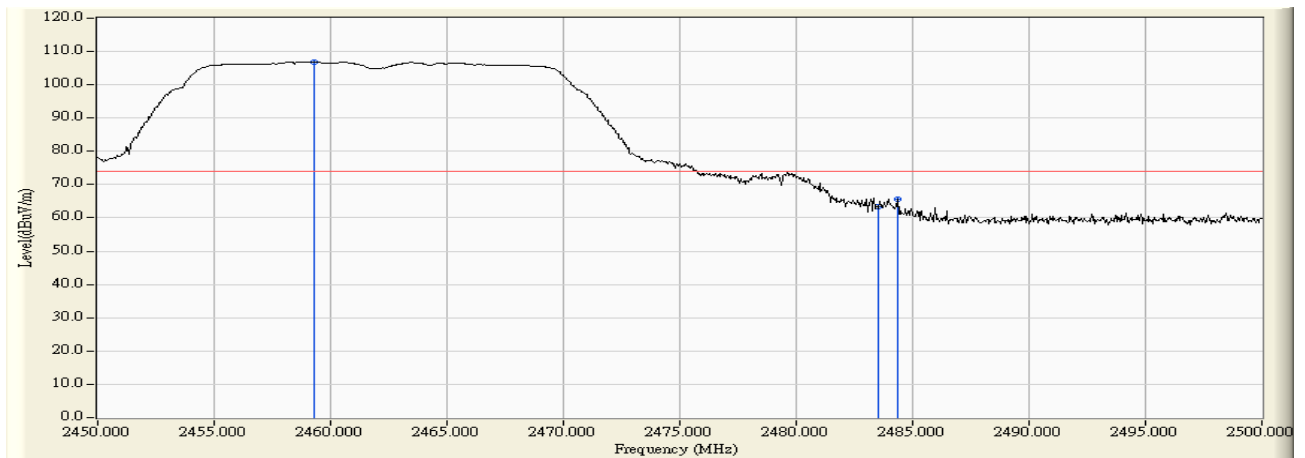
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2459.300	31.224	71.012	102.236	N/A	N/A	PEAK
2		2483.500	31.212	31.628	62.840	-11.130	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:29
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz) (Chain 1)



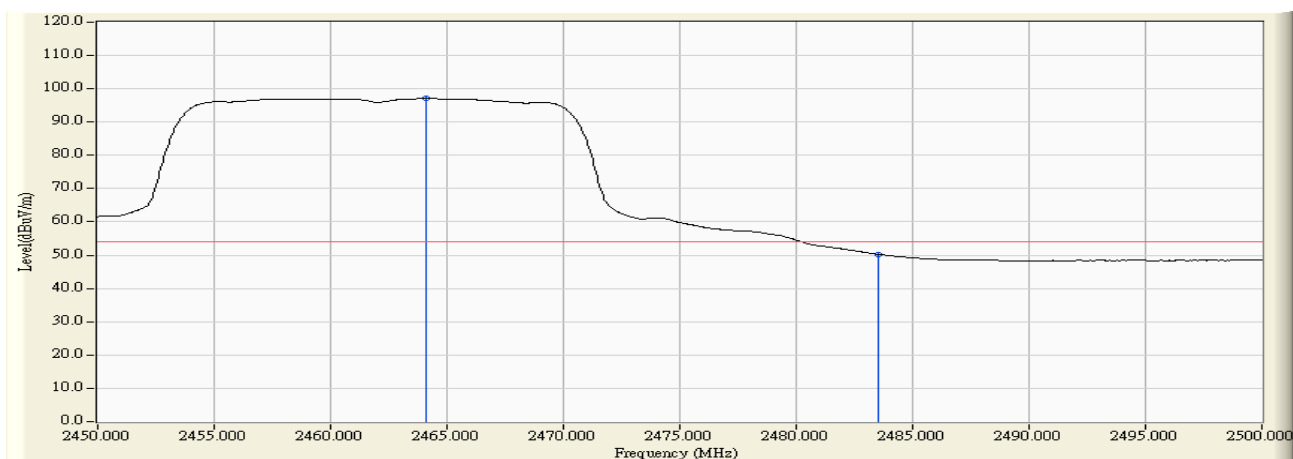
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.200	31.224	60.801	92.025	N/A	N/A	AVERAGE
2		2483.500	31.212	17.621	48.833	-5.137	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:35
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz) (Chain 1)



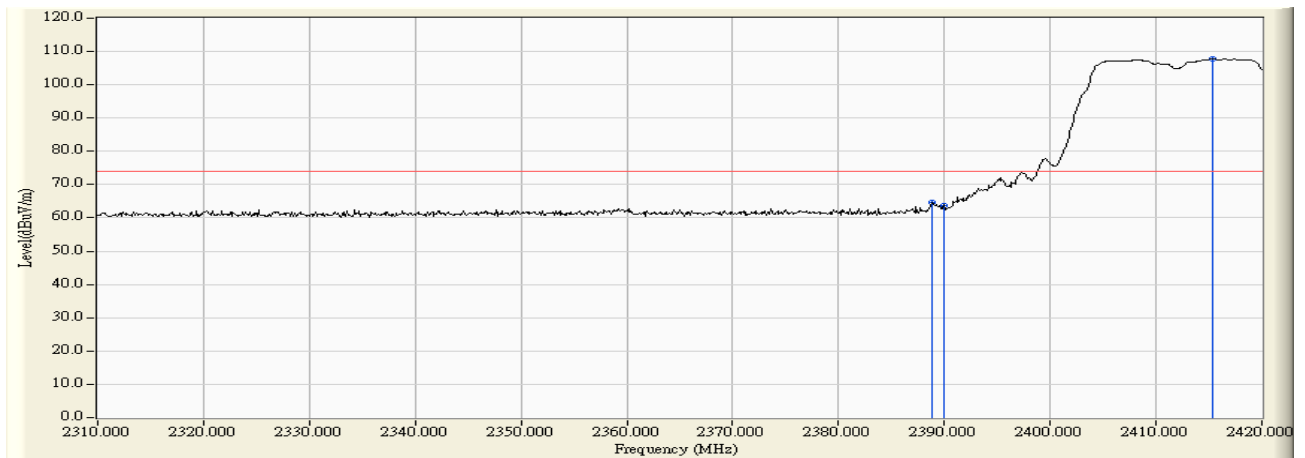
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2459.300	31.224	75.621	106.845	N/A	N/A	PEAK
2		2483.500	31.212	32.186	63.398	-10.572	73.970	PEAK
3		2484.350	31.212	34.338	65.549	-8.421	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:36
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz) (Chain 1)



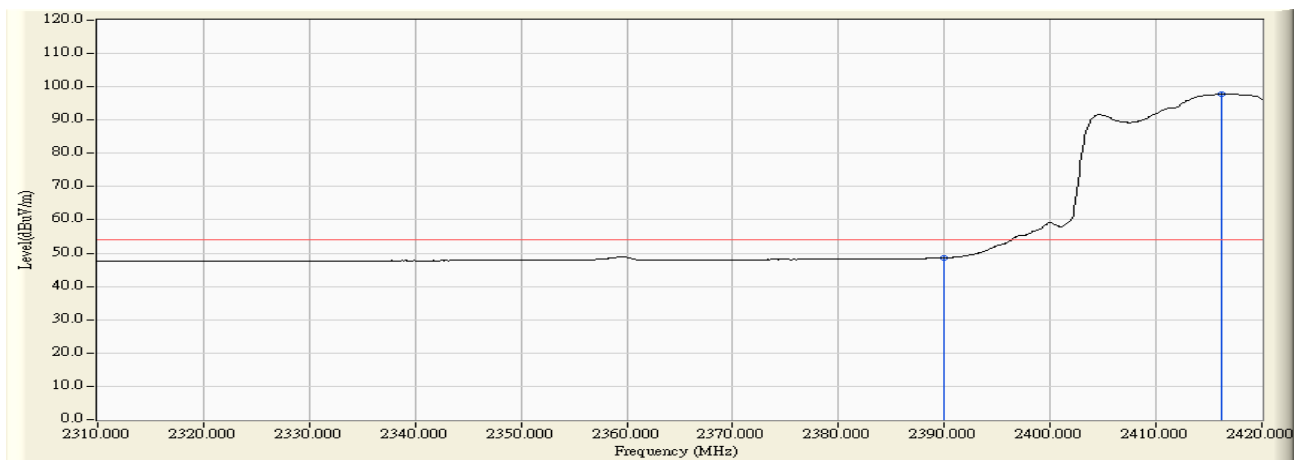
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.100	31.224	65.880	97.104	N/A	N/A	AVERAGE
2		2483.500	31.212	19.077	50.289	-3.681	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:39
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz) (Chain 0+1)



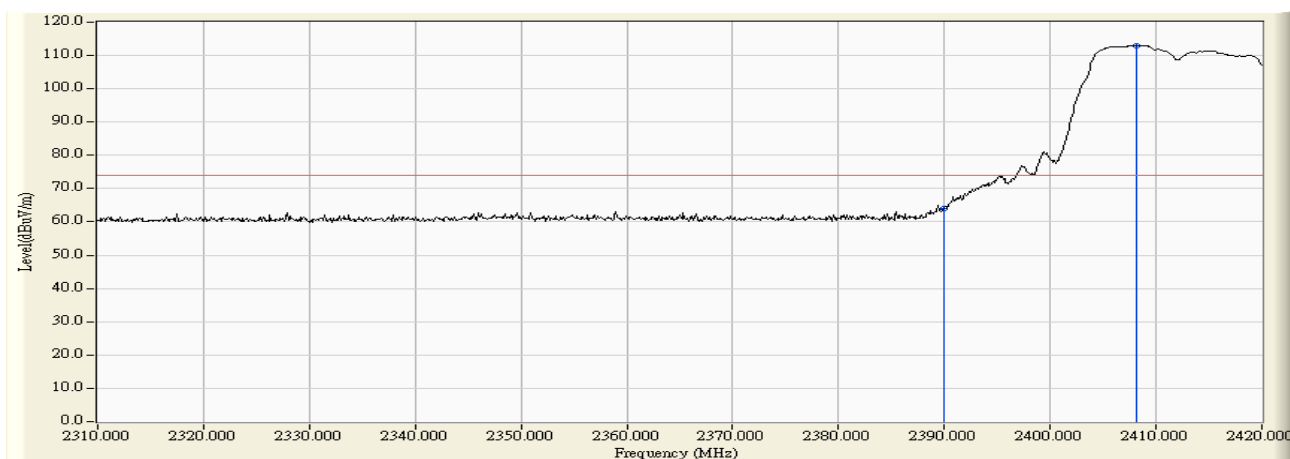
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2388.870	31.185	33.613	64.799	-9.171	73.970	PEAK
2		2390.000	31.184	32.355	63.539	-10.431	73.970	PEAK
3	*	2415.380	31.193	76.627	107.820	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:39
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz) (Chain 0+1)



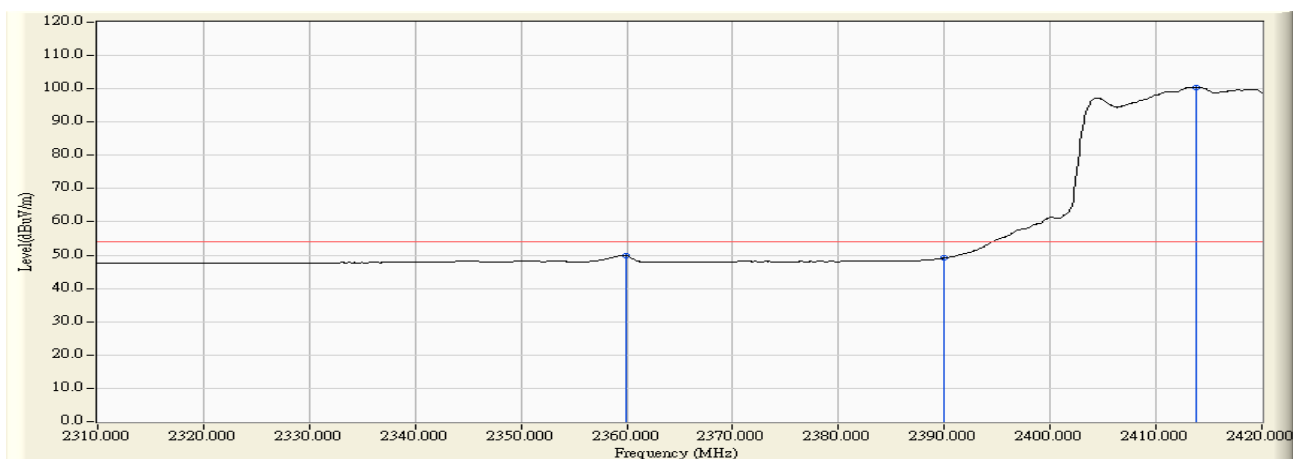
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	17.344	48.528	-5.442	53.970	AVERAGE
2	*	2416.260	31.194	66.546	97.740	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:41
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz) (Chain 0+1)



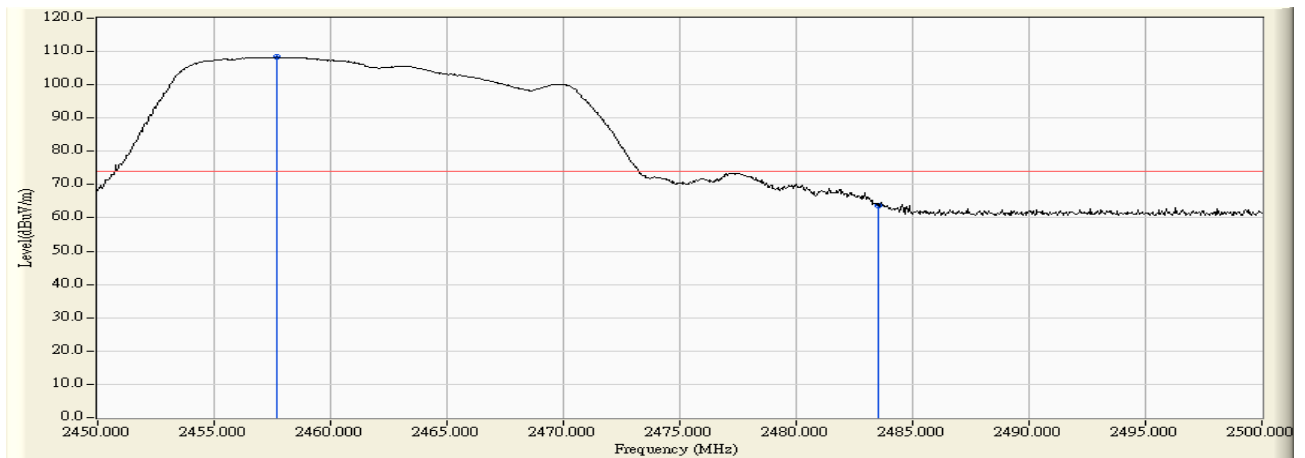
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	32.986	64.170	-9.800	73.970	PEAK
2	*	2408.120	31.188	81.869	113.057	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:43
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz) (Chain 0+1)



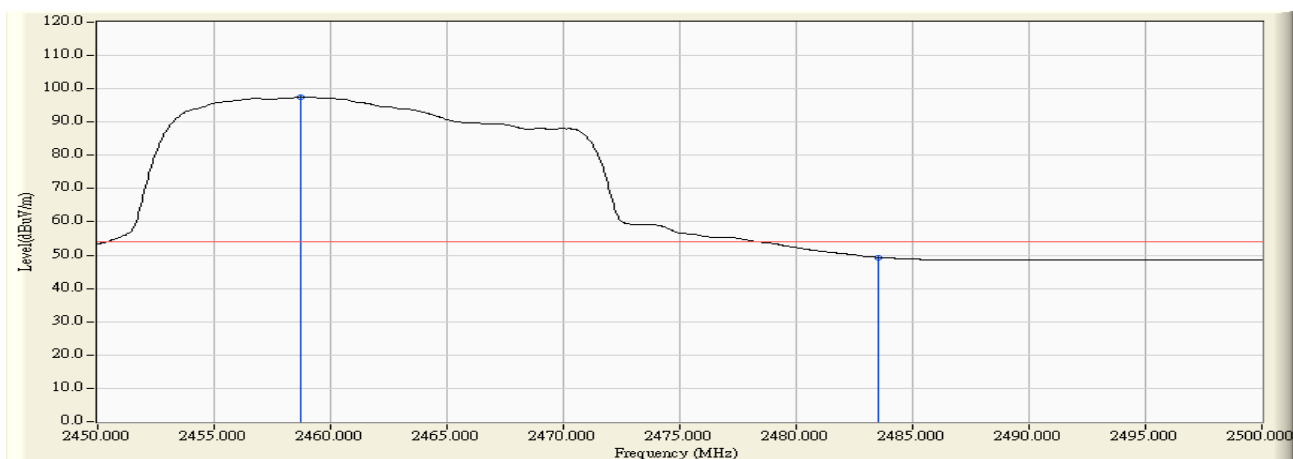
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2359.940	31.218	18.620	49.838	-4.132	53.970	AVERAGE
2		2390.000	31.184	17.970	49.154	-4.816	53.970	AVERAGE
3	*	2413.730	31.191	69.326	100.518	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:49
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz) (Chain 0+1)



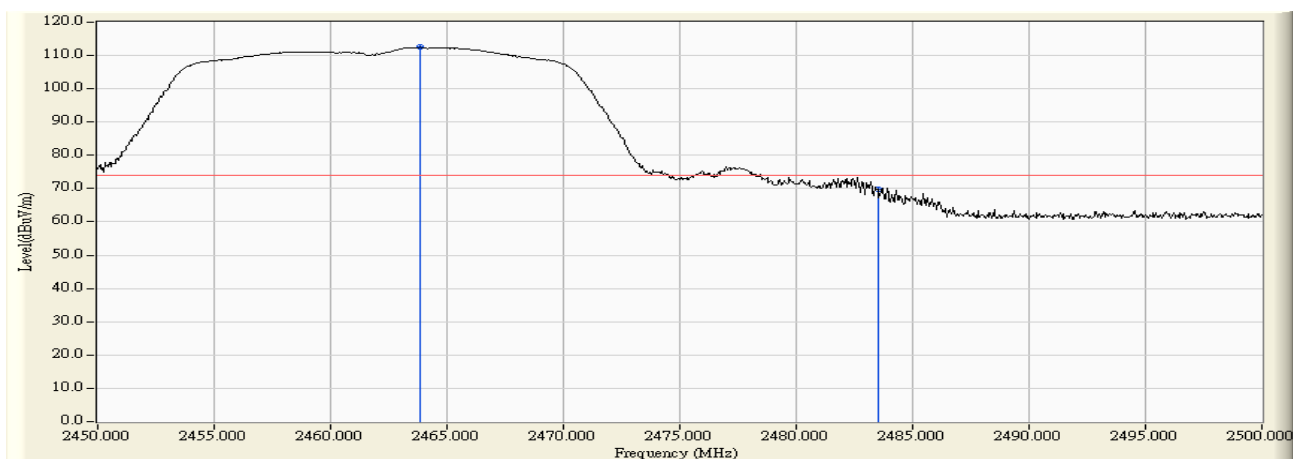
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2457.700	31.224	77.050	108.274	N/A	N/A	PEAK
2		2483.500	31.212	32.422	63.634	-10.336	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:51
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz) (Chain 0+1)



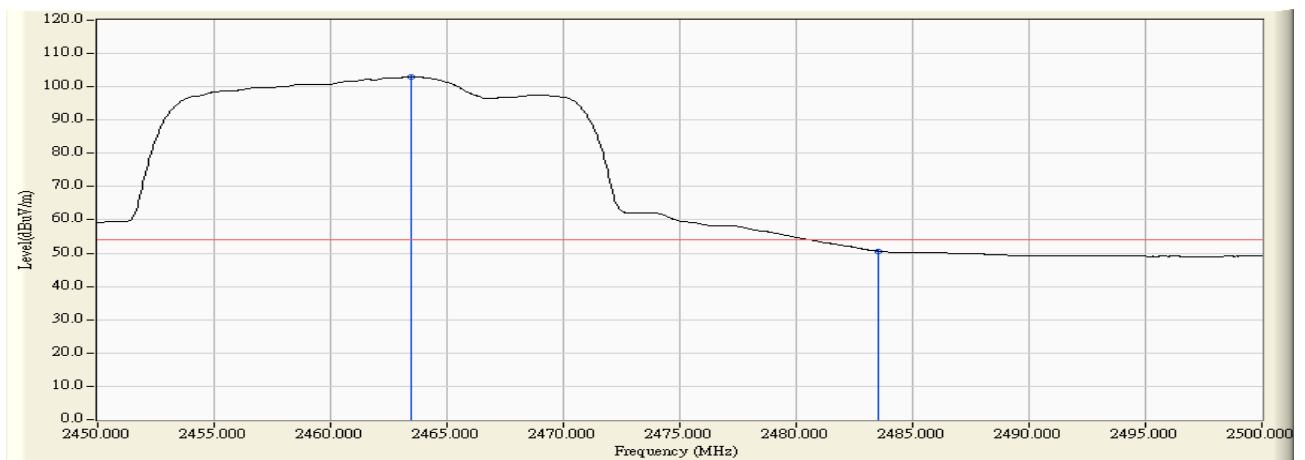
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2458.750	31.224	66.369	97.593	N/A	N/A	AVERAGE
2		2483.500	31.212	18.123	49.335	-4.635	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:51
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz) (Chain 0+1)



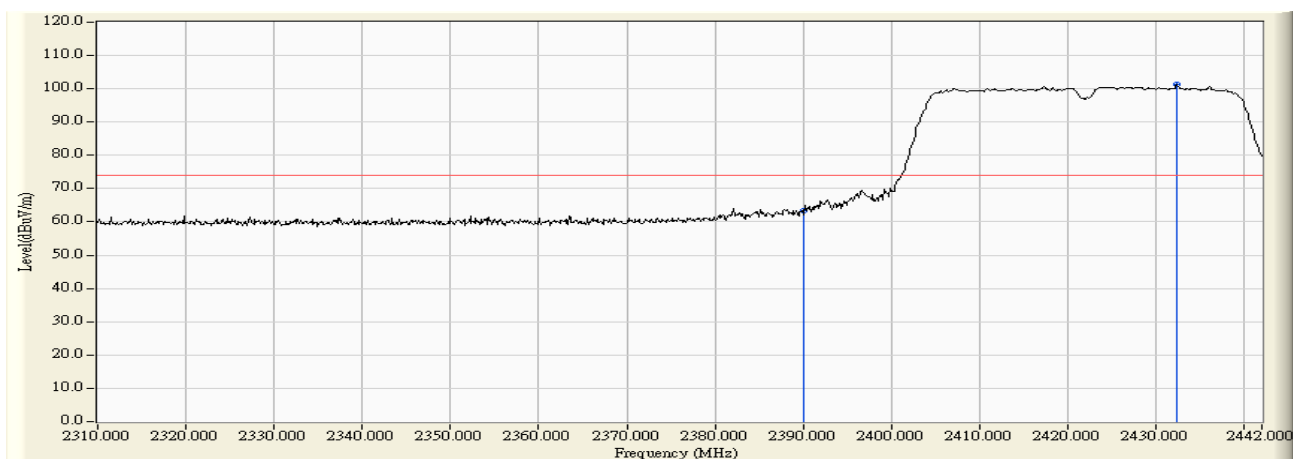
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.850	31.224	81.216	112.440	N/A	N/A	PEAK
2		2483.500	31.212	38.671	69.883	-4.087	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:54
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz) (Chain 0+1)



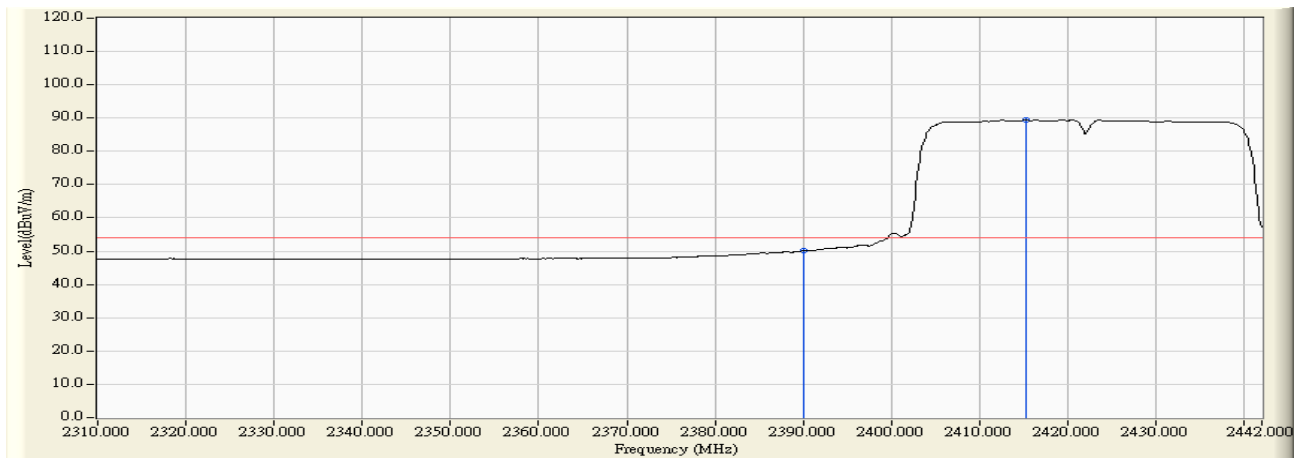
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.450	31.224	71.816	103.040	N/A	N/A	AVERAGE
2		2483.500	31.212	19.410	50.622	-3.348	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:55
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz) (Chain 0)



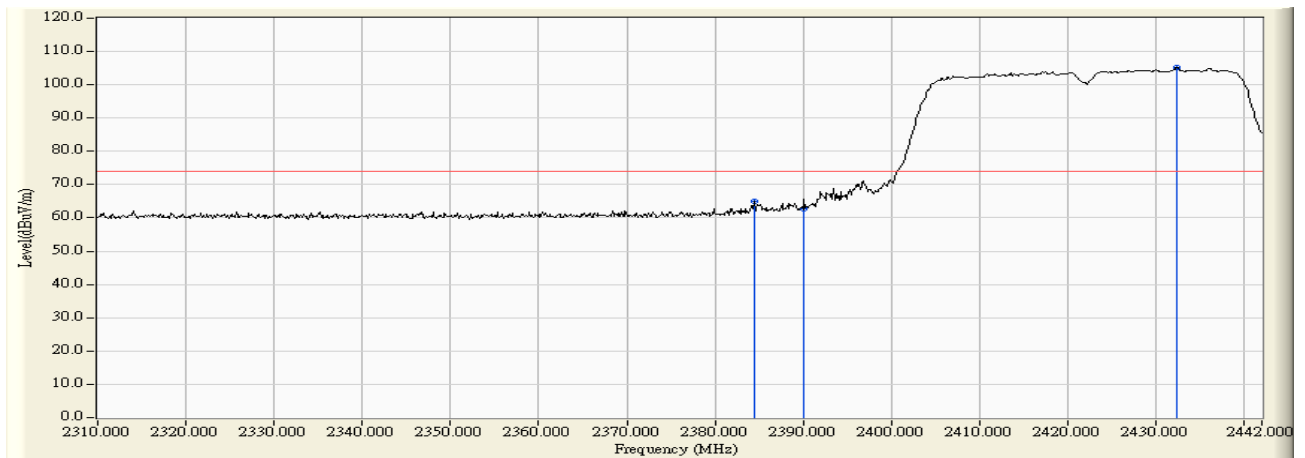
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	32.344	63.528	-10.442	73.970	PEAK
2	*	2432.364	31.207	69.975	101.183	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:56
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz) (Chain 0)



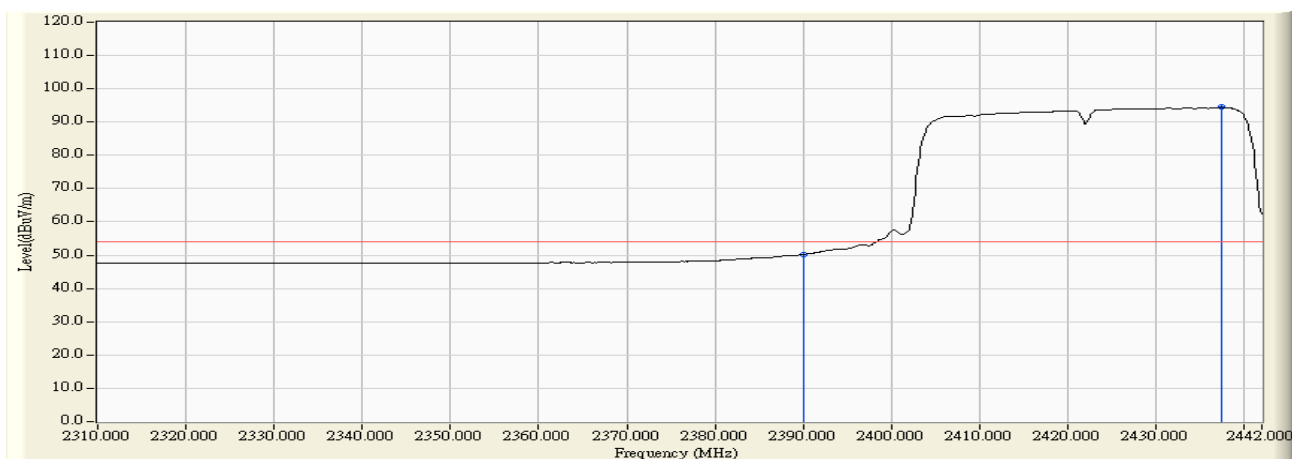
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	18.880	50.064	-3.906	53.970	AVERAGE
2	*	2415.336	31.193	58.160	89.353	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:57
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz) (Chain 0)



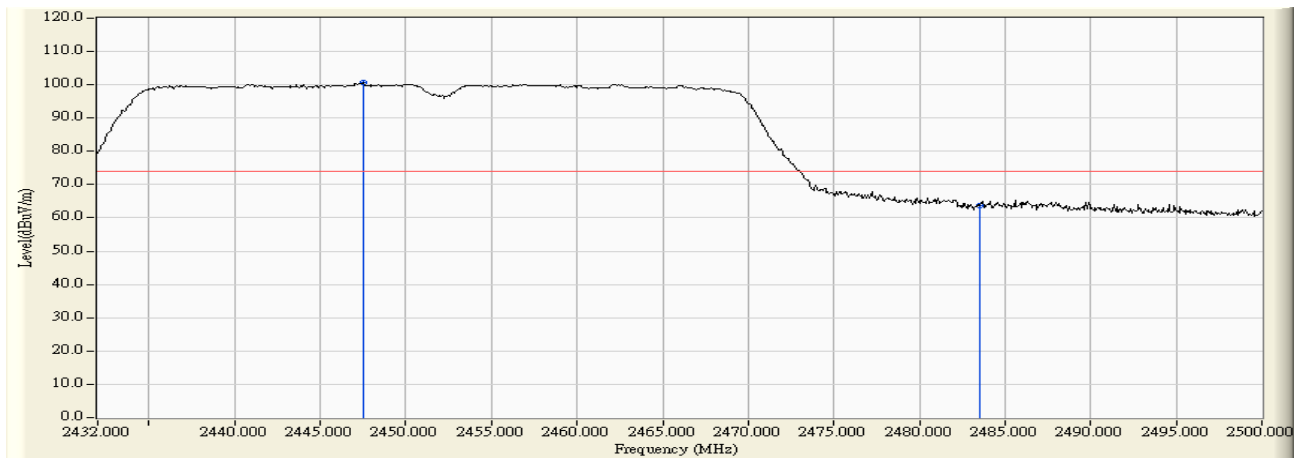
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2384.448	31.191	33.798	64.988	-8.982	73.970	PEAK
2		2390.000	31.184	31.427	62.611	-11.359	73.970	PEAK
3	*	2432.364	31.207	73.892	105.100	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:57
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz) (Chain 0)



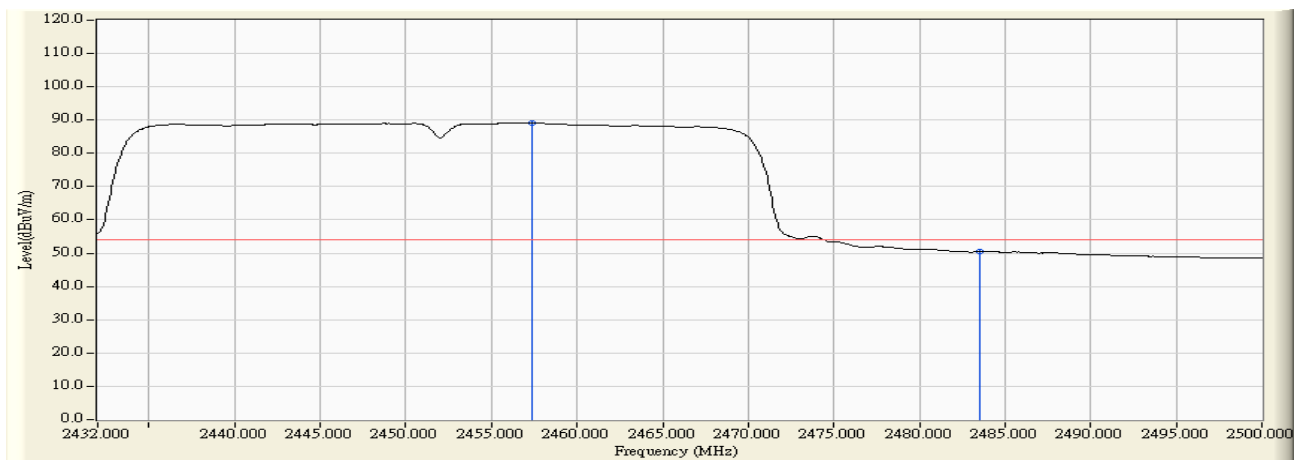
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	19.068	50.252	-3.718	53.970	AVERAGE
2	*	2437.380	31.212	63.220	94.432	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:59
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2452MHz By 802.11n(40MHz) (Chain 0)



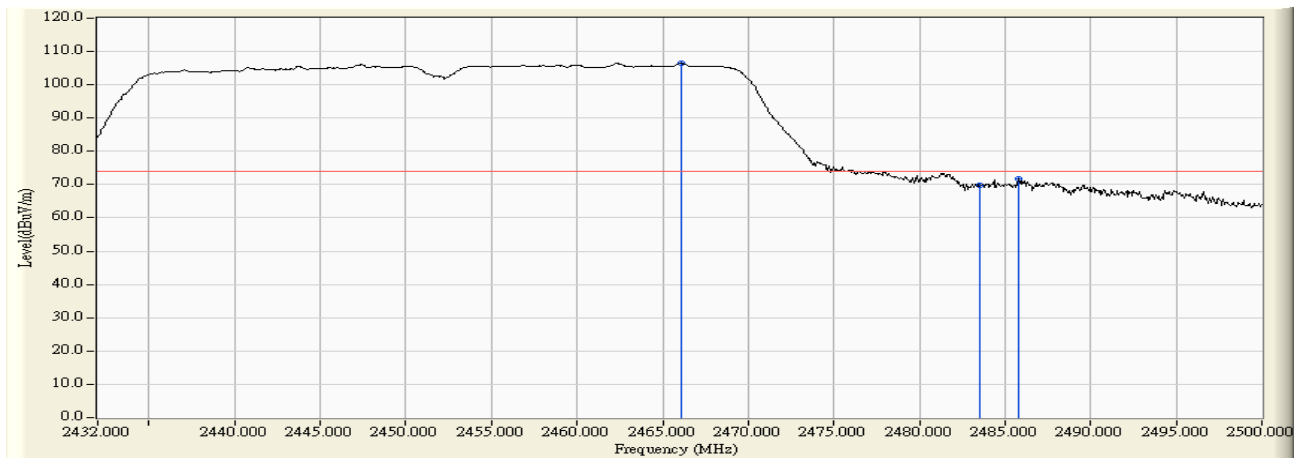
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2447.504	31.220	69.401	100.621	N/A	N/A	PEAK
2		2483.500	31.212	32.384	63.596	-10.374	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 14:59
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2452MHz By 802.11n(40MHz) (Chain 0)



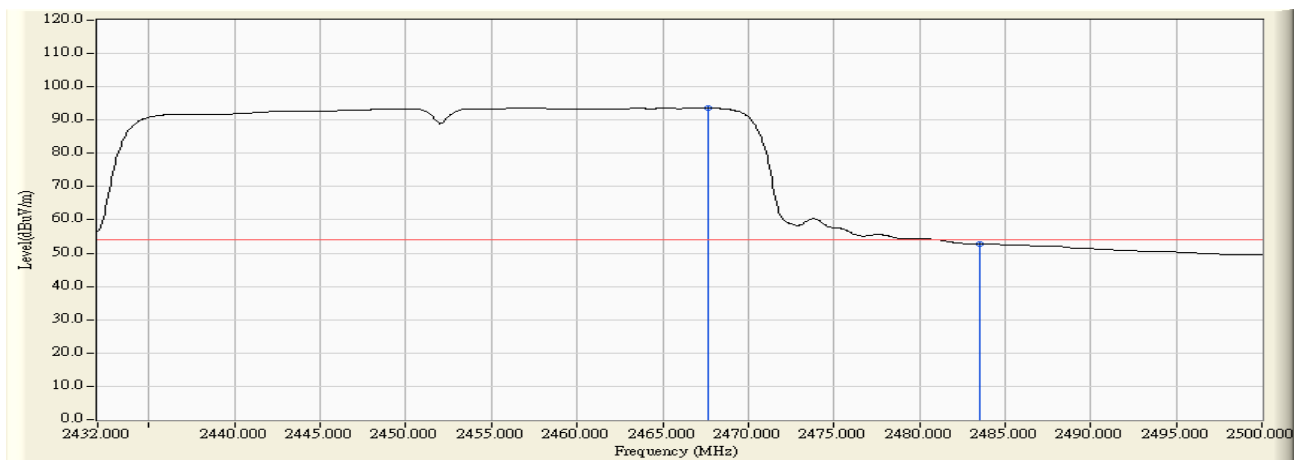
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2457.364	31.223	57.939	89.162	N/A	N/A	AVERAGE
2		2483.500	31.212	19.170	50.382	-3.588	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 15:00
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2452MHz By 802.11n(40MHz) (Chain 0)



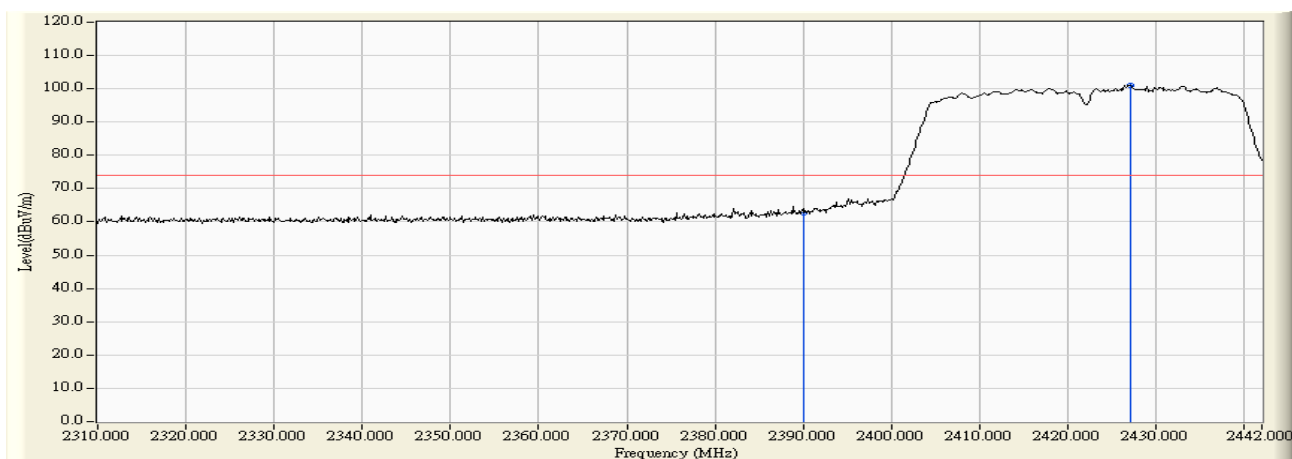
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2466.068	31.223	75.266	106.489	N/A	N/A	PEAK
2		2483.500	31.212	38.669	69.881	-4.089	73.970	PEAK
3		2485.788	31.211	40.644	71.855	-2.115	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 15:02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2452MHz By 802.11n(40MHz) (Chain 0)



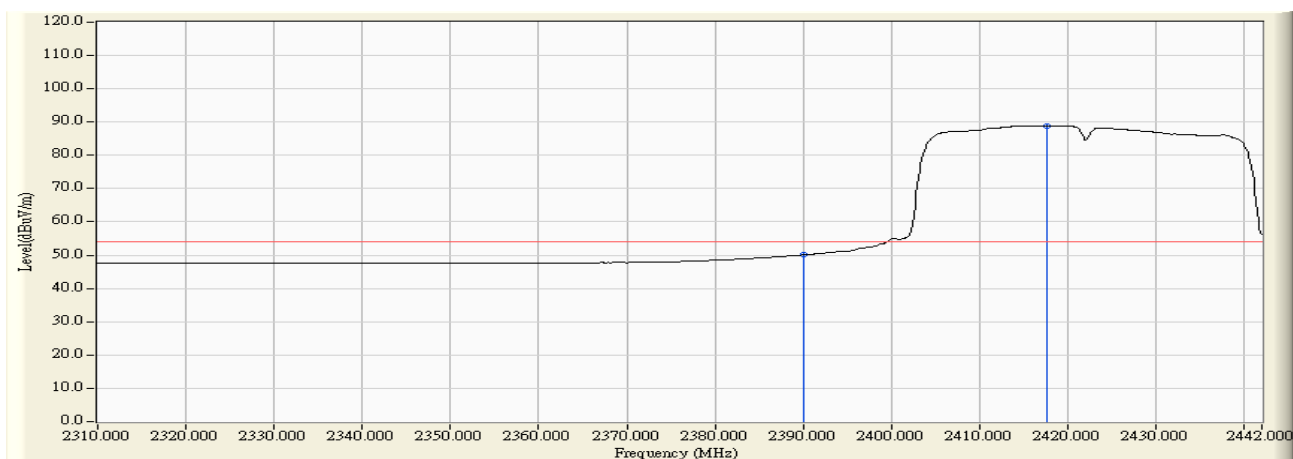
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2467.632	31.222	62.506	93.728	N/A	N/A	AVERAGE
2		2483.500	31.212	21.563	52.775	-1.195	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 15:04
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz) (Chain 1)



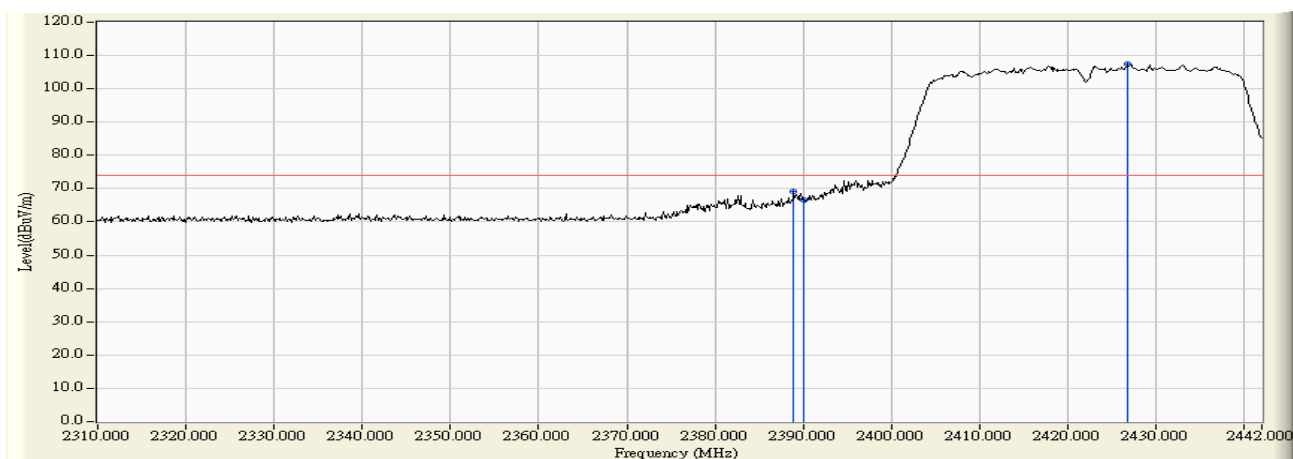
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	31.667	62.851	-11.119	73.970	PEAK
2	*	2427.084	31.204	69.822	101.025	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 15:04
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz) (Chain 1)



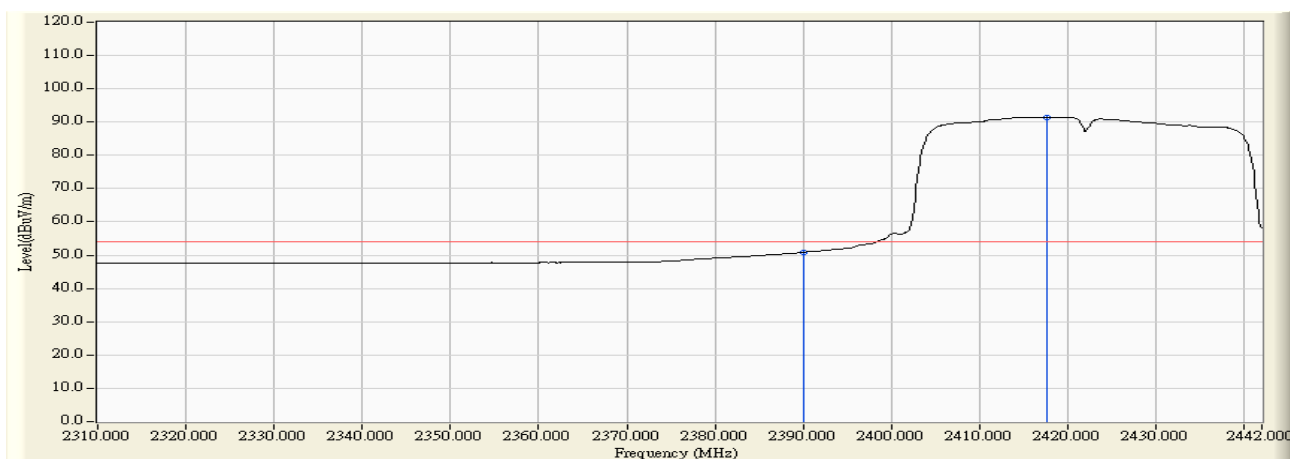
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	18.911	50.095	-3.875	53.970	AVERAGE
2	*	2417.580	31.195	57.703	88.898	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 15:06
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz) (Chain 1)



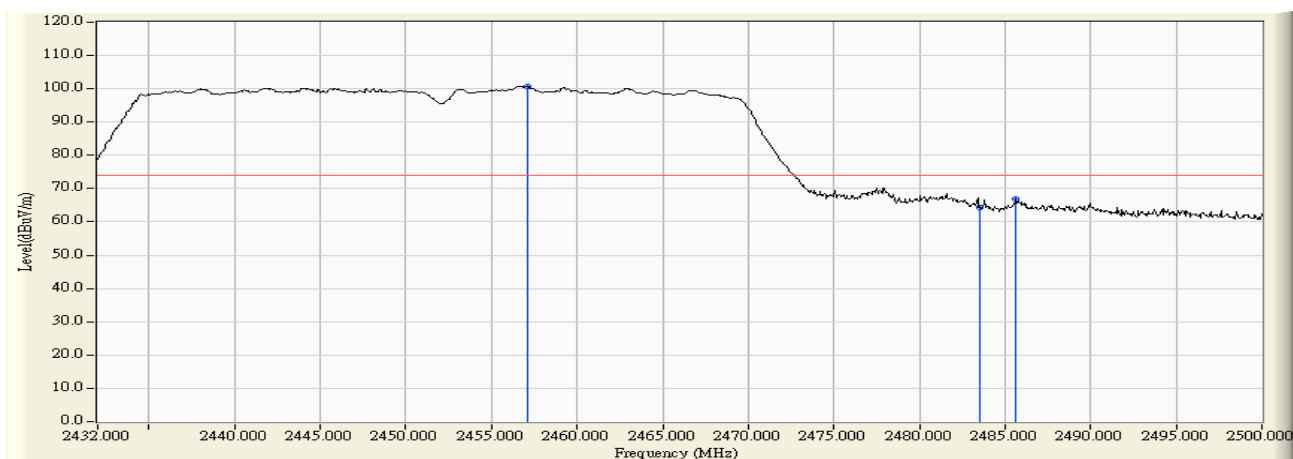
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2388.936	31.186	37.899	69.084	-4.886	73.970	PEAK
2		2390.000	31.184	35.418	66.602	-7.368	73.970	PEAK
3	*	2426.820	31.203	76.103	107.306	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 15:06
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz) (Chain 1)



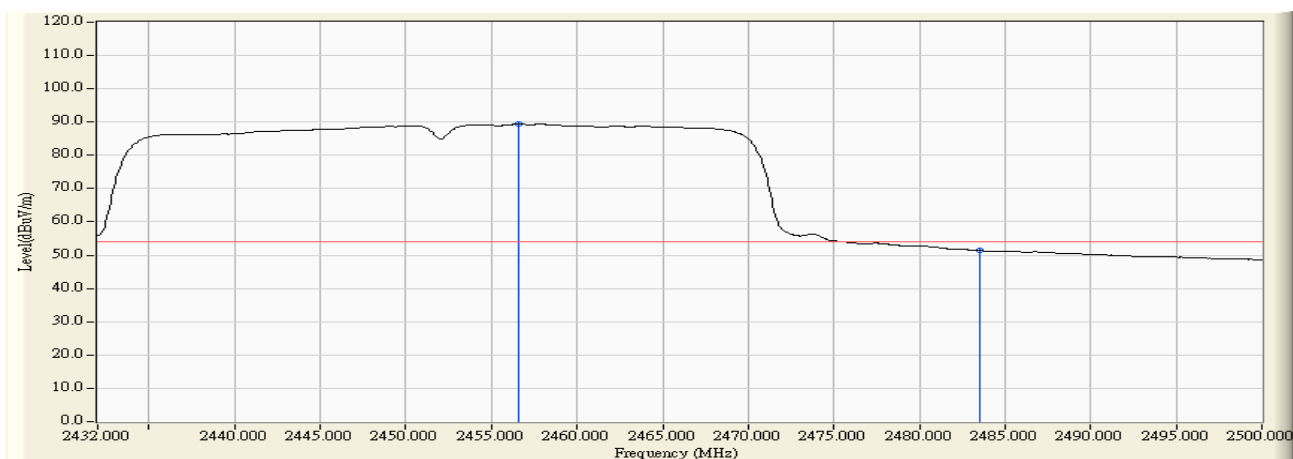
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	19.752	50.936	-3.034	53.970	AVERAGE
2	*	2417.580	31.195	60.284	91.479	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 15:08
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2452MHz By 802.11n(40MHz) (Chain 1)



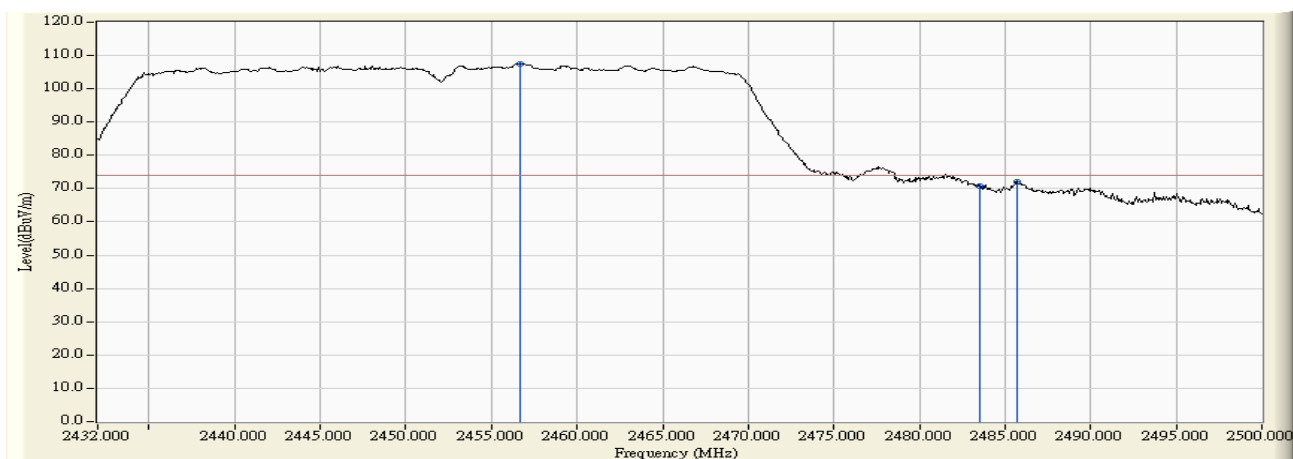
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2457.092	31.223	69.530	100.753	N/A	N/A	PEAK
2		2483.500	31.212	33.232	64.444	-9.526	73.970	PEAK
3		2485.652	31.211	35.618	66.829	-7.141	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 15:08
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2452MHz By 802.11n(40MHz) (Chain 1)



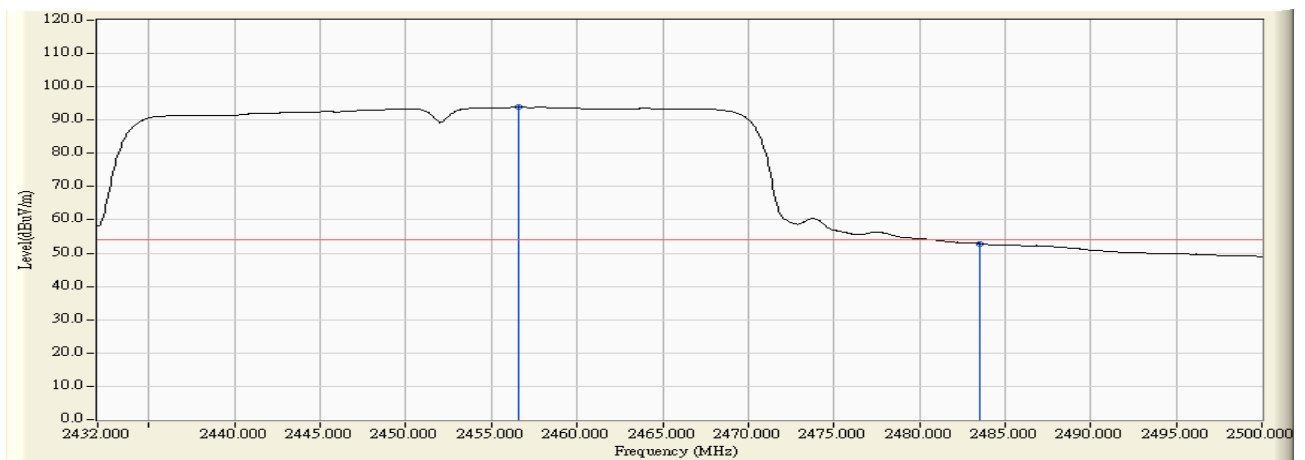
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2456.548	31.223	58.158	89.381	N/A	N/A	AVERAGE
2		2483.500	31.212	20.184	51.396	-2.574	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 15:09
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2452MHz By 802.11n(40MHz) (Chain 1)



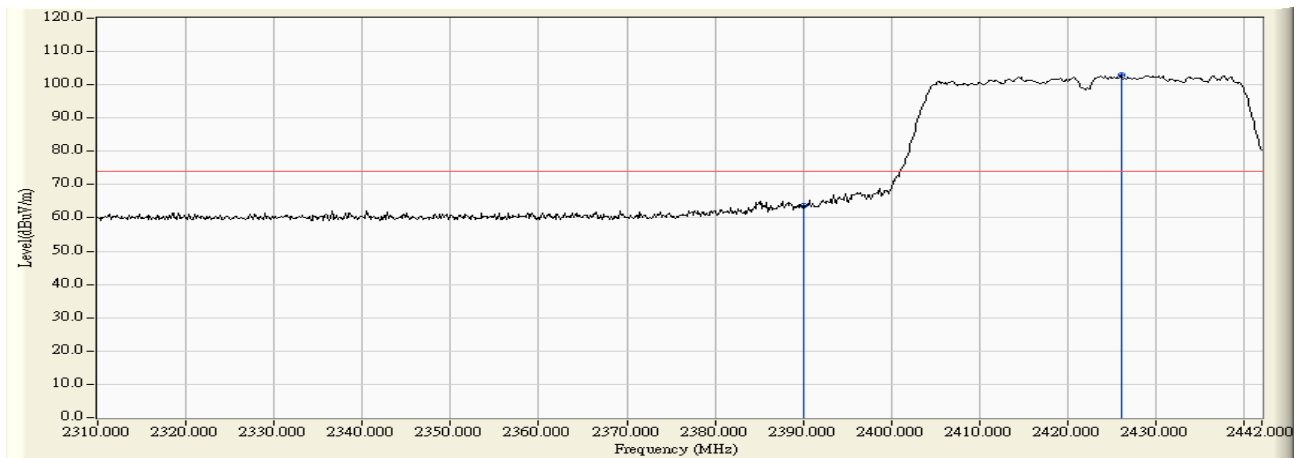
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2456.684	31.223	76.285	107.508	N/A	N/A	PEAK
2		2483.500	31.212	39.671	70.883	-3.087	73.970	PEAK
3		2485.720	31.211	40.724	71.935	-2.035	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 15:10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2452MHz By 802.11n(40MHz) (Chain 1)



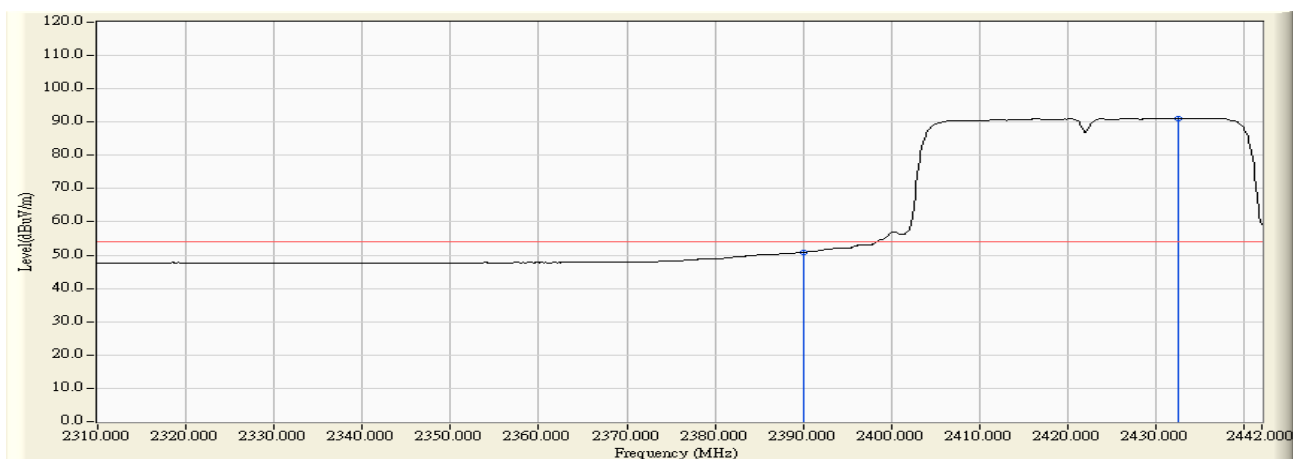
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2456.548	31.223	62.657	93.880	N/A	N/A	AVERAGE
2		2483.500	31.212	21.675	52.887	-1.083	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 15:11
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz) (Chain 0+1)



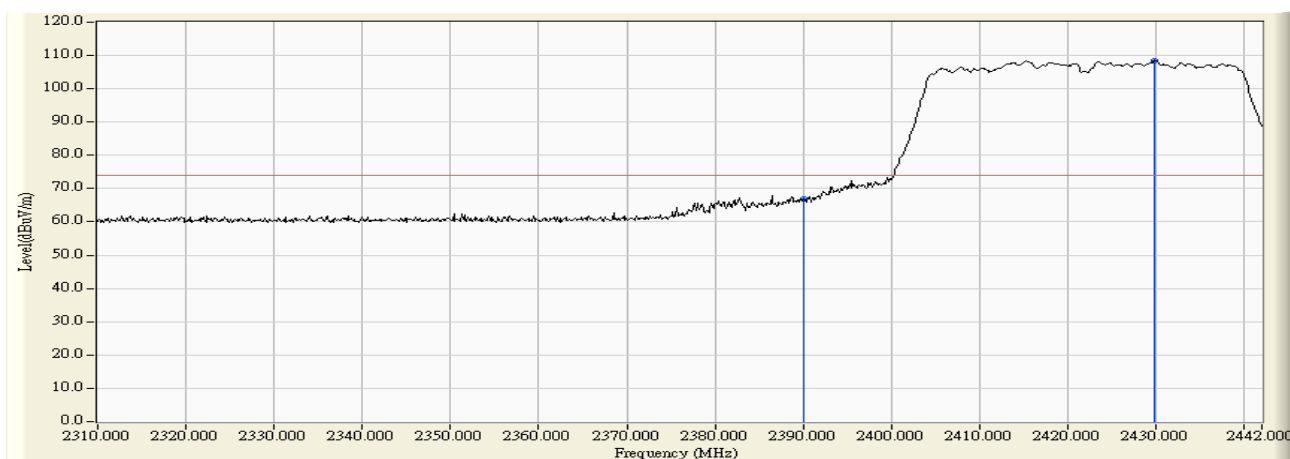
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	32.542	63.726	-10.244	73.970	PEAK
2	*	2426.028	31.202	71.726	102.928	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 15:11
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz) (Chain 0+1)



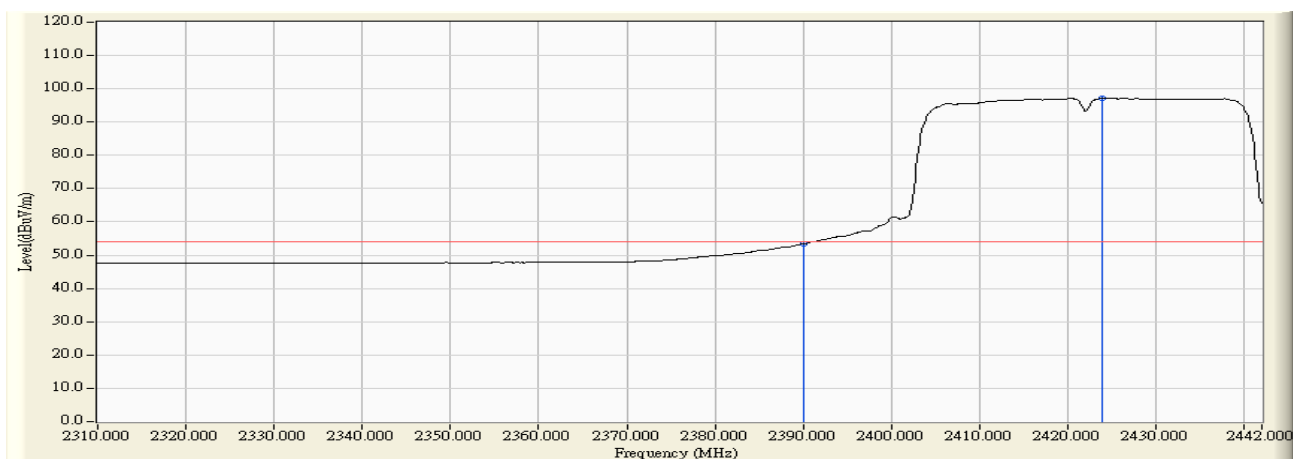
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	19.726	50.910	-3.060	53.970	AVERAGE
2	*	2432.496	31.207	59.947	91.155	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 15:12
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz) (Chain 0+1)



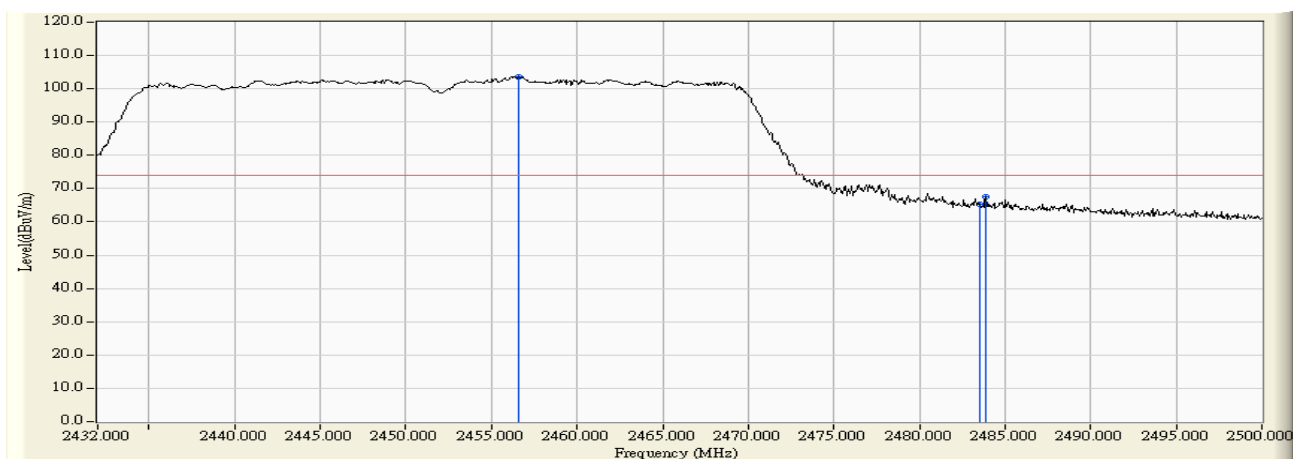
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	35.593	66.777	-7.193	73.970	PEAK
2	*	2429.856	31.206	77.261	108.467	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 15:13
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz) (Chain 0+1)



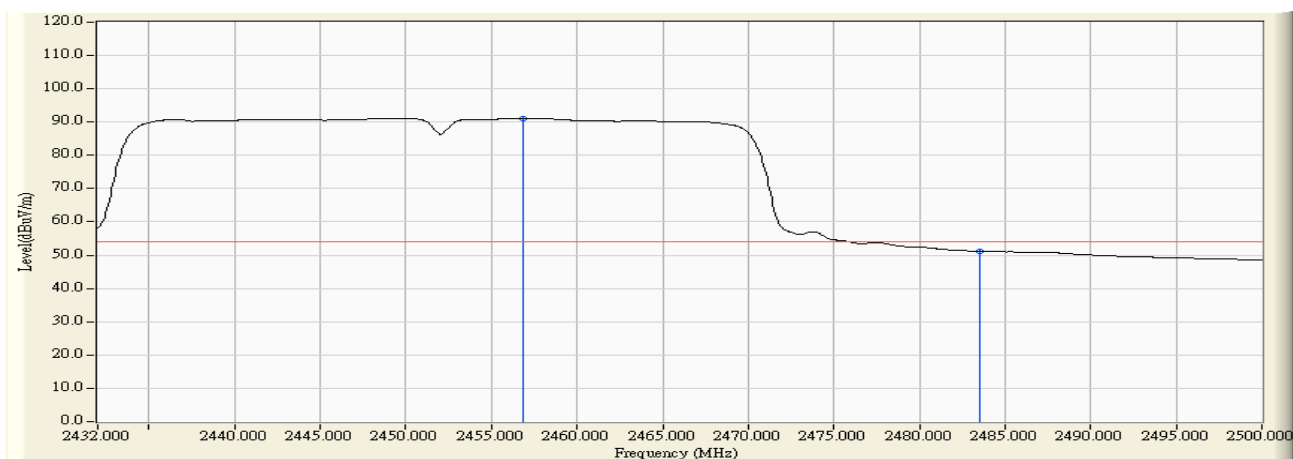
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	22.251	53.435	-0.535	53.970	AVERAGE
2	*	2423.916	31.200	65.969	97.170	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 15:14
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2452MHz By 802.11n(40MHz) (Chain 0+1)



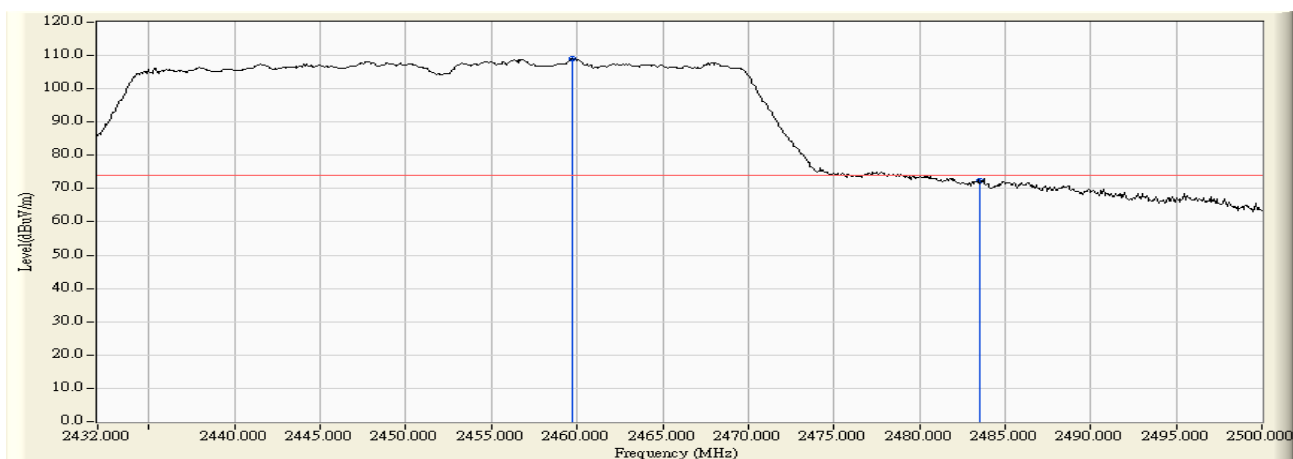
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2456.548	31.223	72.397	103.620	N/A	N/A	PEAK
2		2483.500	31.212	34.069	65.281	-8.689	73.970	PEAK
3		2483.884	31.212	36.335	67.547	-6.423	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 15:14
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2452MHz By 802.11n(40MHz) (Chain 0+1)



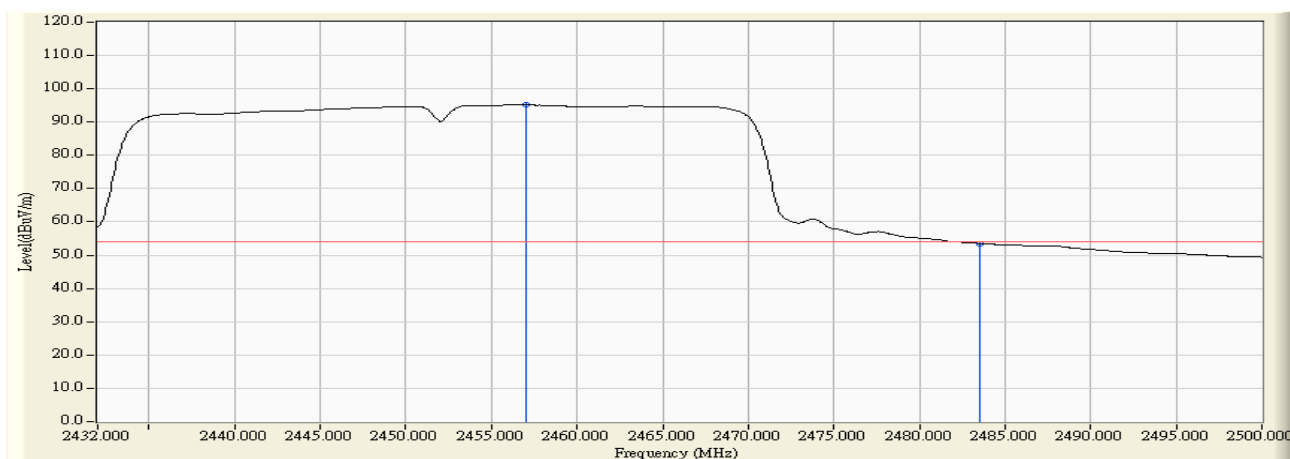
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2456.820	31.223	59.850	91.073	N/A	N/A	AVERAGE
2		2483.500	31.212	19.866	51.078	-2.892	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 15:15
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2452MHz By 802.11n(40MHz) (Chain 0+1)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2459.744	31.224	77.845	109.069	N/A	N/A	PEAK
2		2483.500	31.212	41.045	72.257	-1.713	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/12/19 - 15:16
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Home Gateway	Note : Mode 4: Transmit at channel 2452MHz By 802.11n(40MHz) (Chain 0+1)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2457.024	31.223	64.017	95.240	N/A	N/A	AVERAGE
2		2483.500	31.212	22.299	53.511	-0.459	53.970	AVERAGE

7. Operation Frequency Range of 20dB Bandwidth

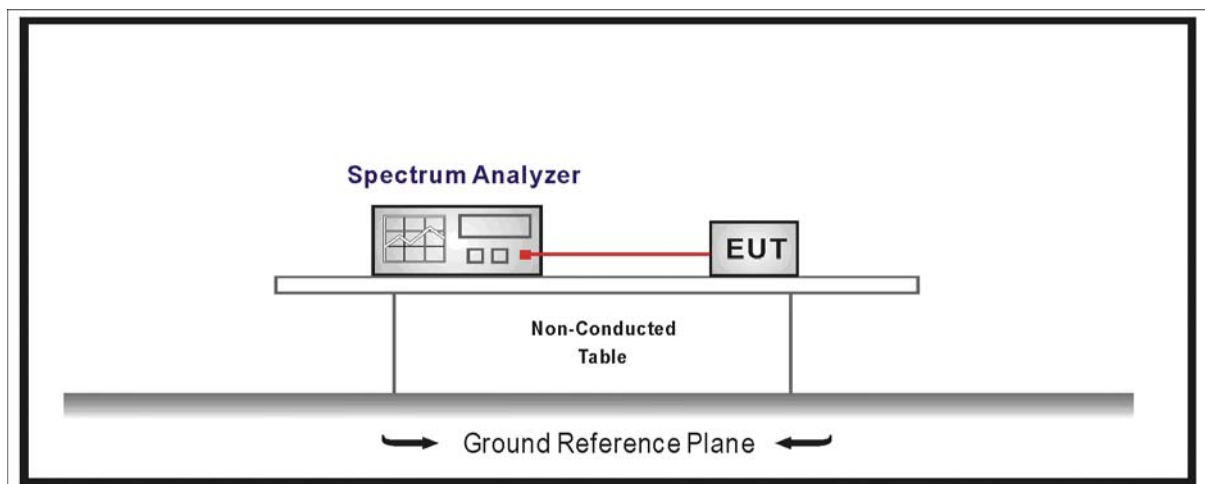
7.1. Test Equipment

Operation Frequency Range of 20dB Bandwidth / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2009/05/06
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2009/03/30

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

7.2. Test Setup



7.3. Limit

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

7.4. 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 = 100 kHz, Span greater than RBW.

7.5. Uncertainty

The measurement uncertainty is defined as ± 1 kHz

7.6. Test Result

Product	:	Home Gateway
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 0)

Channel 01 (2412MHz)



Channel 11 (2462MHz)



Product	:	Home Gateway
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 0)

Channel 01 (2412MHz)



Channel 11 (2462MHz)



Product	:	Home Gateway
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz) (Chain 0)

Channel 01 (2412MHz)



Channel 11 (2462MHz)



Product	:	Home Gateway
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz) (Chain 0)

Channel 03 (2422MHz)



Channel 09 (2452MHz)

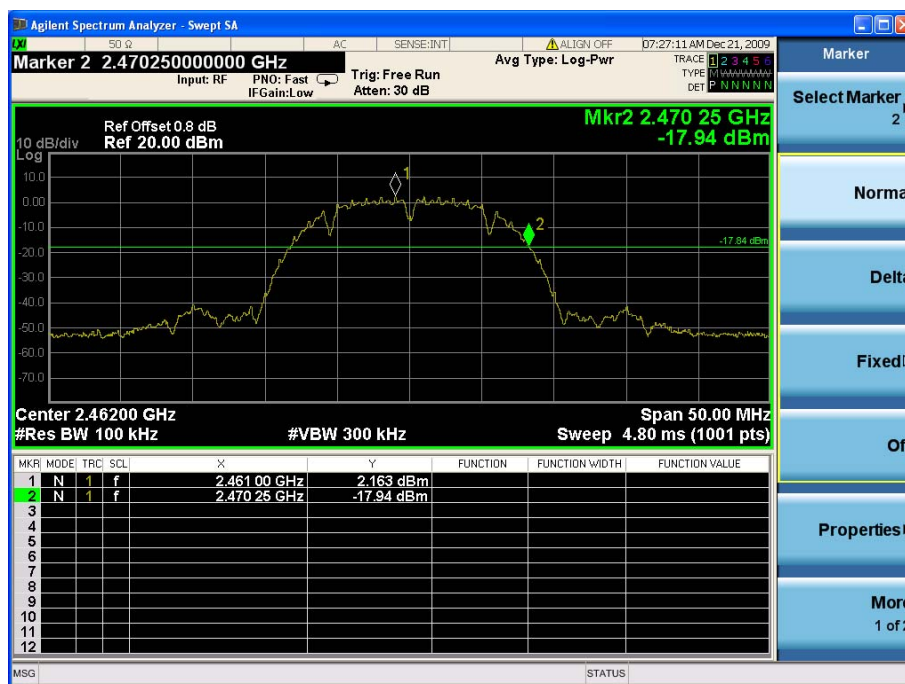


Product	:	Home Gateway
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Mode	:	Mode 1: Transmit at 802.11b (Chain 1)

Channel 01 (2412MHz)



Channel 11 (2462MHz)



Product	:	Home Gateway
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Mode	:	Mode 2: Transmit at 802.11g (Chain 1)

Channel 01 (2412MHz)



Channel 11 (2462MHz)



Product	:	Home Gateway
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Mode	:	Mode 3: Transmit at 802.11n (20MHz) (Chain 1)

Channel 01 (2412MHz)



Channel 11 (2462MHz)

