



Test Report

**Industry Canada RSS-Gen Issue 3/RSS-210 Issue 8
FCC Part15 Subpart C**

Product Name : WIRELESS-ABGN 2X2 NETWORK
MINI PCIE ADAPTER
Model No. : WLE250NX
FCC ID : TK4WLE250NX

Applicant : Compex Systems Pte Ltd
Address : 135 Joo Seng Road, #08-01 PM Industrial Building
Singapore 368363

Date of Receipt : 04/02/2013
Test Date : 05/02/2013~30/04/2013
Issued Date : 07/05/2013
Report No. : 132S009R-RF-US-P05V01
Report Version : V1.0

This report was based on Quietek report No: 132S008R

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 : 07/05/2013

Report No. : 132S009R-RF-US-P05V01



Product Name : WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
 Applicant : Compex Systems Pte Ltd
 Address : 135 Joo Seng Road, #08-01 PM Industrial Building
 Singapore 368363
 Manufacturer : Compex Systems Pte Ltd
 Address : 135 Joo Seng Road, #08-01 PM Industrial Building
 Singapore 368363
 Model No. : WLE250NX
 FCC ID : TK4WLE250NX
 EUT Voltage : DC: 3.3V
 Brand Name : COMPEX
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2012
 ANSI C63.4: 2009; KDB 558074
 Test Result : Complied
 Performed Location : Suzhou EMC Laboratory
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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/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

Taiwan R.O.C.	:	BSMI, NCC, TAF
Germany	:	TUV Rheinland
Norway	:	Nemko, DNV
USA	:	FCC, NVLAP
Japan	:	VCCI
China	:	CNAS

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1. General Information

1.1. EUT Description

Product Name	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Brand Name	COMPEX
Model No.	WLE250NX
EUT Voltage	DC 3.3V
Frequency Range	For 2.4GHz Band 802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz): 2422~2452MHz For 5.0GHz Band 802.11a/n(20MHz): 5180~5320MHz, 5500~5580, 5680~5700MHz, 5745~5825MHz 802.11n(40MHz): 5190~5310MHz, 5510~5550MHz, 5755~5795MHz
Channel Number	For 2.4GHz Band 802.11b/g/n(20MHz): 11 802.11n(40MHz): 7 For 5.0GHz Band 802.11a/n(20MHz): 20 802.11n(40MHz): 8
Type of Modulation	802.11b: DSSS
	802.11a/g/n: OFDM
Data Rate	802.11a/g: 6/9/12/18/24/36/48/54 Mbps
	802.11b: 1/2/5.5/11 Mbps
	802.11n: up to 300 Mbps
Channel Control	Auto
Antenna Delivery	2*T _x + 2*R _x
Antenna Type	Reference to Antenna List
Peak Antenna Gain	Reference to Antenna List

For 2.4GHz Band

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

For 5.0GHz Band

802.11a/n(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz	48	5240 MHz
52	5260 MHz	56	5280 MHz	60	5300 MHz	64	5320 MHz
100	5500 MHz	104	5520 MHz	108	5540 MHz	112	5560 MHz
116	5580 MHz	120	5600 MHz	124	5620 MHz	128	5640 MHz
132	5660 MHz	136	5680 MHz	140	5700 MHz	149	5745 MHz
153	5765 MHz	157	5785 MHz	161	5805 MHz	165	5825 MHz
802.11n(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	54	5270 MHz	62	5310 MHz
102	5510 MHz	110	5550 MHz	118	5590 MHz	126	5630 MHz
134	5670 MHz	151	5755 MHz	159	5795 MHz	N/A	N/A

Note: This Wireless Module can't operate in 5600~5650 MHz band in Canada/US.

802.11a/b/g/n Antenna List

Antenna	Manufacturer	Peak Gain
Dipole Antenna 1#	SmartAnt Telecom Co., Ltd.	4.5dBi for 2.4GHz, 7dBi for 5GHz
Dipole Antenna 2#	Kunshan Wavelink Electronic Co., Ltd.	2dBi for 2.4GHz and 5GHz

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 802.11a
Mode 4: Transmit by 802.11n (20MHz)
Mode 5: 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 132S009R-RF-US-P01V02.

Power Parameter Value of the test software

Test Mode	Test Channel	Ant0	Ant1	Ant0+1
802.11b	2412	19.0	20.0	×
	2437	19.5	20.0	×
	2462	19.5	20.0	×
802.11g	2412	15.0	17.0	×
	2437	15.0	15.5	×
	2462	14.5	16.5	×
802.11n(20MHz)	2412	14.0	16.5	14.0
	2437	14.5	15.5	15.5
	2462	14.0	16.0	14.5
	5745	15.5	19.5	19.0
	5785	15.5	19.5	18.5
	5825	14.5	19.5	18.5
802.11n(40MHz)	2422	13.0	14.0	14.0
	2437	14.0	15.5	15.5
	2452	12.5	15.5	14.0
	5755	14.5	20.0	17.0
	5795	15.5	20.5	18.5
802.11a	5745	17.0	20.0	×
	5785	16.5	20.5	×
	5825	15.5	19.5	×

The test mode of the test software can support.

Test Mode	Ant0	Ant1	Ant0+1
802.11b	√	√	×
802.11g	√	√	×
802.11a	√	√	×
802.11n(20)	√	√	√
802.11n(40)	√	√	√

Duty Cycle

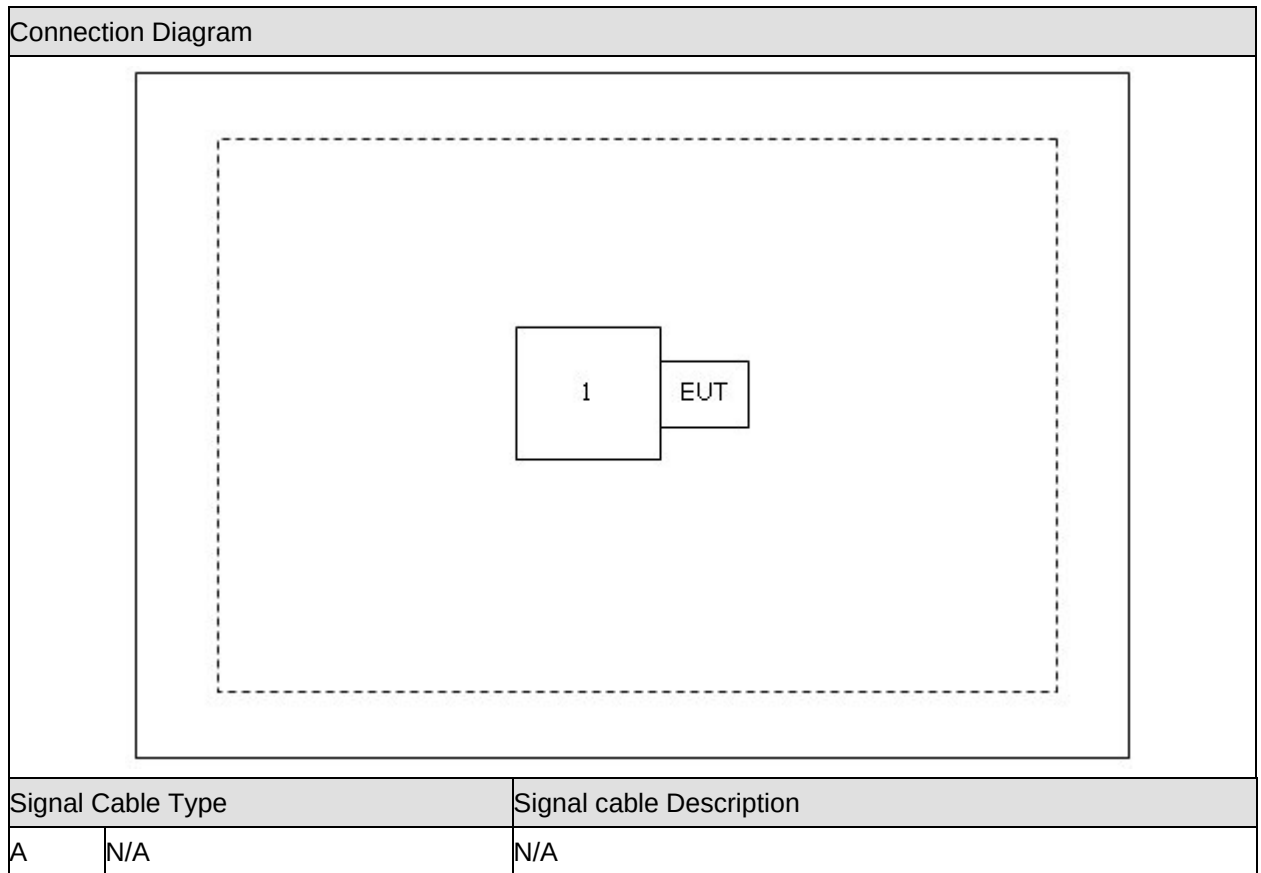
Test Mode	Duty Cycle
802.11b	99%
802.11g	99%
802.11a	99%
802.11n(20MHz)	99%
802.11n(40MHz)	99%

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	E520	N/A	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 the RF test software "Art2", and set the test mode and channel, then press OK to start continue Transmit or receive.

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: 2012 Section 15.207	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart C: 2012 Section 15.209	Yes	No
RF Antenna Conducted Spurious	FCC CFR Title 47 Part 15 Subpart C: 2012 Section 15.247(d)	Yes	No
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2012 15.247(d)	Yes	No
Operation Frequency Range of 20dB Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2012 15.215(c)	Yes	No
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2012 Section 15.247(a)(2)	Yes	No
Power Output	FCC CFR Title 47 Part 15 Subpart C: 2012 Section 15.247(b)(3)	Yes	No
Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: 2012 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

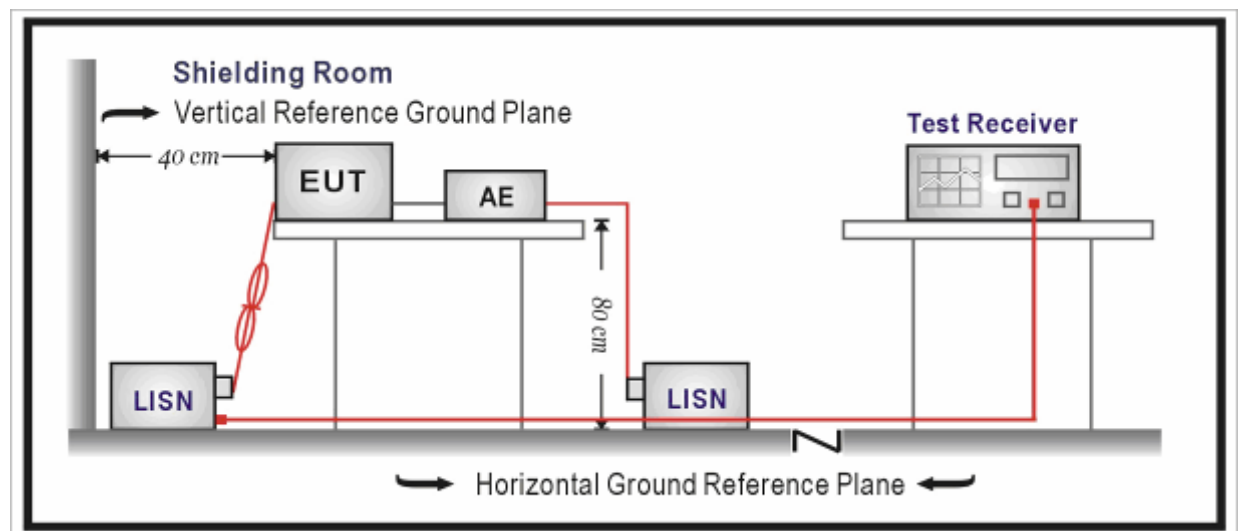
3.1. Test Equipment

Conducted Emission / TR-1

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
EMI Test Receiver	R&S	ESCI	100726	2014.01.07
Two-Line V-Network	R&S	ENV216	100043	2014.03.30
Two-Line V-Network	R&S	ENV216	100044	2013.09.17
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2014.03.01
50ohm Termination	SHX	TF2	07081401	2013.09.17
Temperature/Humidity Meter	zhicheng	ZC1-2	TR1-TH	2014.01.10

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, 2009 and tested according to KDB 558074 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.

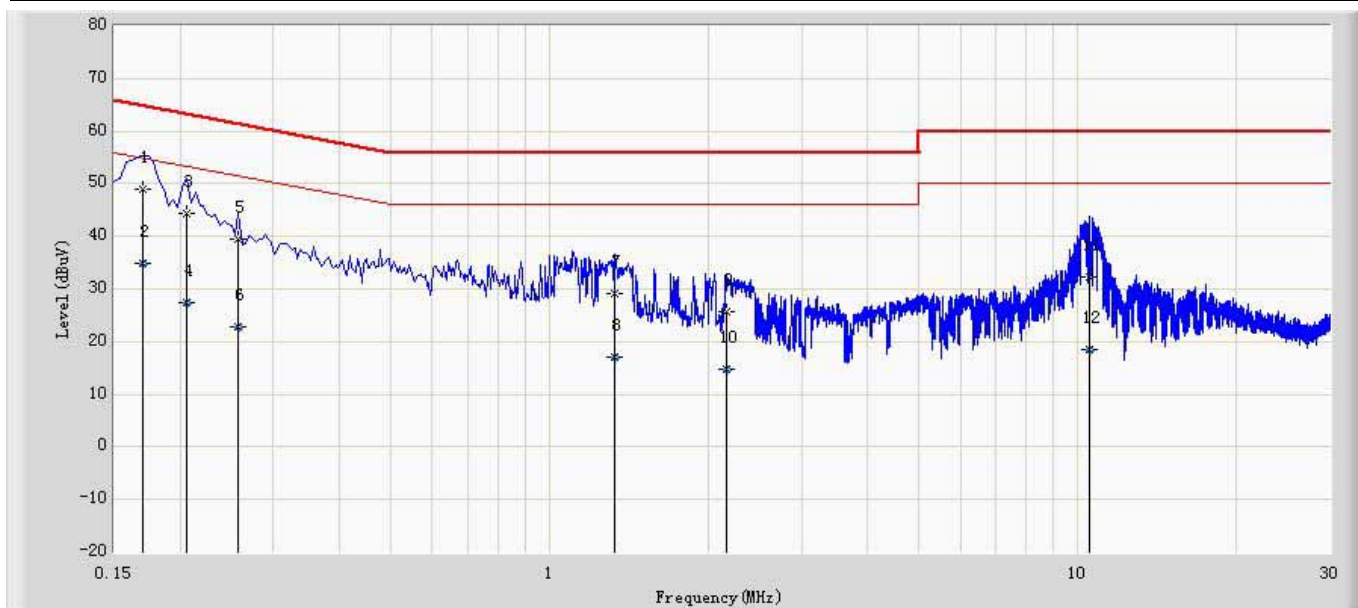
The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

3.5. Uncertainty

The measurement uncertainty is defined as ± 2.02 dB

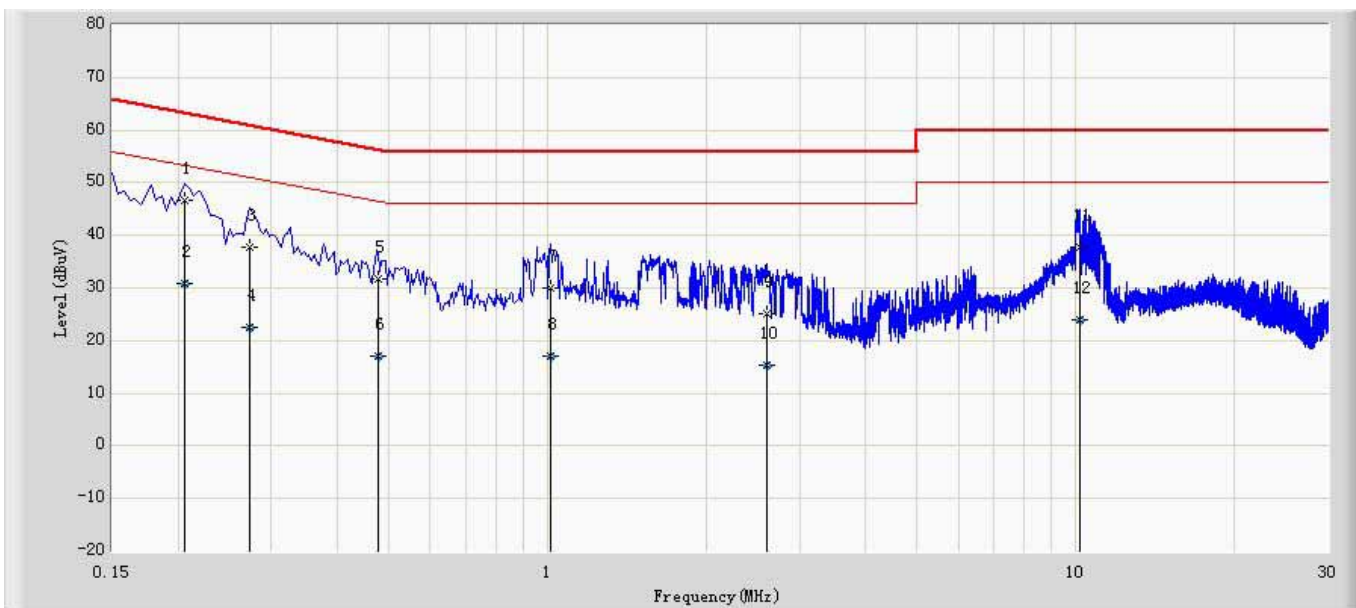
3.6. Test Result

Site: TR1	Time: 2013/04/22 - 19:56
Limit: FCC_Part15.207_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Line
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1	*	0.170	48.908	39.057	-16.052	64.960	9.851	QP
2		0.170	34.793	24.942	-20.168	54.960	9.851	AV
3		0.206	44.485	34.624	-18.880	63.365	9.861	QP
4		0.206	27.307	17.446	-26.058	53.365	9.861	AV
5		0.258	39.513	29.645	-21.983	61.496	9.868	QP
6		0.258	22.788	12.920	-28.707	51.496	9.868	AV
7		1.330	29.245	19.448	-26.755	56.000	9.797	QP
8		1.330	17.182	7.385	-28.818	46.000	9.797	AV
9		2.158	25.803	16.012	-30.197	56.000	9.791	QP
10		2.158	14.717	4.926	-31.283	46.000	9.791	AV
11		10.534	32.287	22.272	-27.713	60.000	10.015	QP
12		10.534	18.507	8.492	-31.493	50.000	10.015	AV

Site: TR1	Time: 2013/04/22 - 20:01
Limit: FCC_Part15.207_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Neutral
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1	*	0.206	46.688	36.771	-16.677	63.365	9.917	QP
2		0.206	30.816	20.900	-22.549	53.365	9.917	AV
3		0.274	37.702	27.766	-23.293	60.996	9.937	QP
4		0.274	22.516	12.579	-28.480	50.996	9.937	AV
5		0.478	31.638	21.589	-24.736	56.374	10.049	QP
6		0.478	16.934	6.885	-29.440	46.374	10.049	AV
7		1.014	30.041	20.004	-25.959	56.000	10.038	QP
8		1.014	17.184	7.146	-28.816	46.000	10.038	AV
9		2.594	25.154	15.175	-30.846	56.000	9.978	QP
10		2.594	15.481	5.503	-30.519	46.000	9.978	AV
11		10.170	37.698	27.319	-22.302	60.000	10.379	QP
12		10.170	23.943	13.564	-26.057	50.000	10.379	AV

4. Radiated Emission

4.1. Test Equipment

Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
EMI Test Receiver	R&S	ESCI	100573	2014.03.30
Loop Antenna	R&S	HFH2-Z2	833799/003	2013.11.22
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2013.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2014.03.01
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC2-TH	2014.01.09

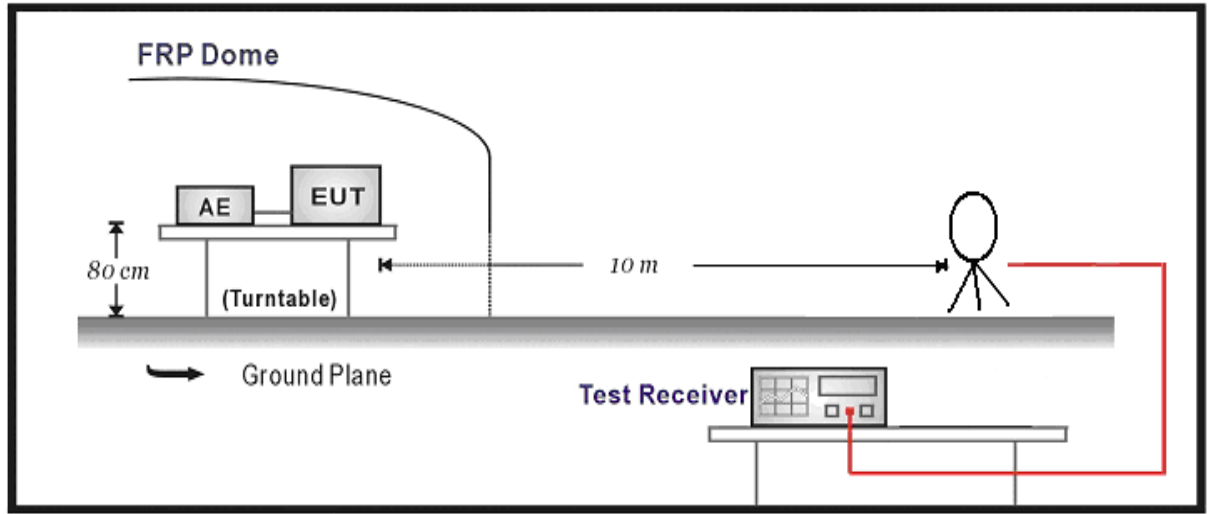
Radiated Emission / AC-5

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2014.03.30
Preamplifier	Miteq	NSP1800-25	1364185	2014.05.04
Preamplifier	QuieTek	AP-040G	CHM-0906001	2014.05.04
Bilog Antenna	Teseq GmbH	CBL6112D	27612	2013.10.15
DRG Horn	ETS-Lindgren	3117	00123988	2014.01.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2013.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2014.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2014.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2014.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2013.06.11
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2014.01.11

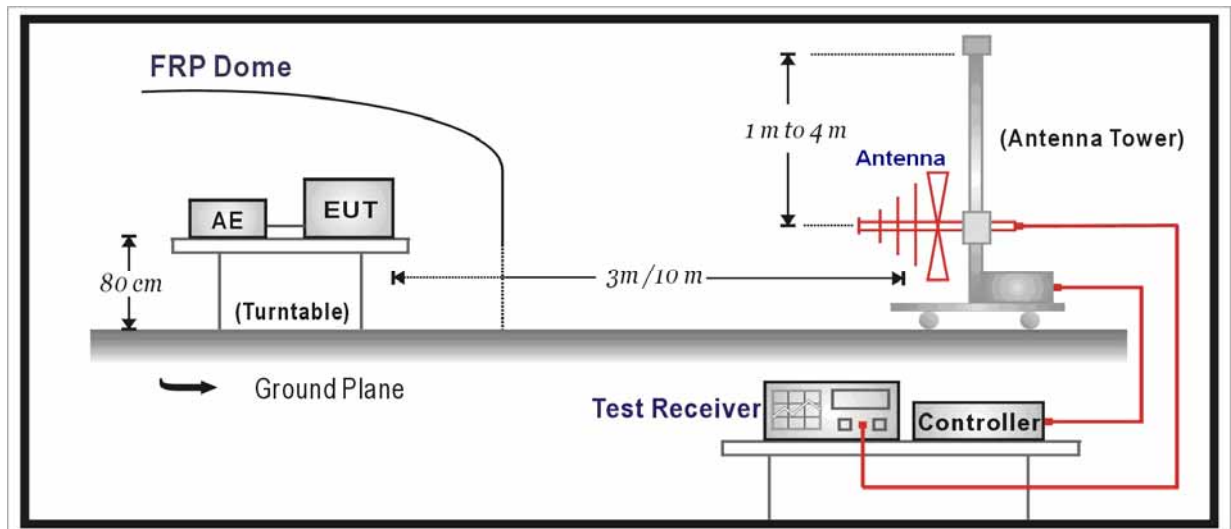
Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

4.2. Test Setup

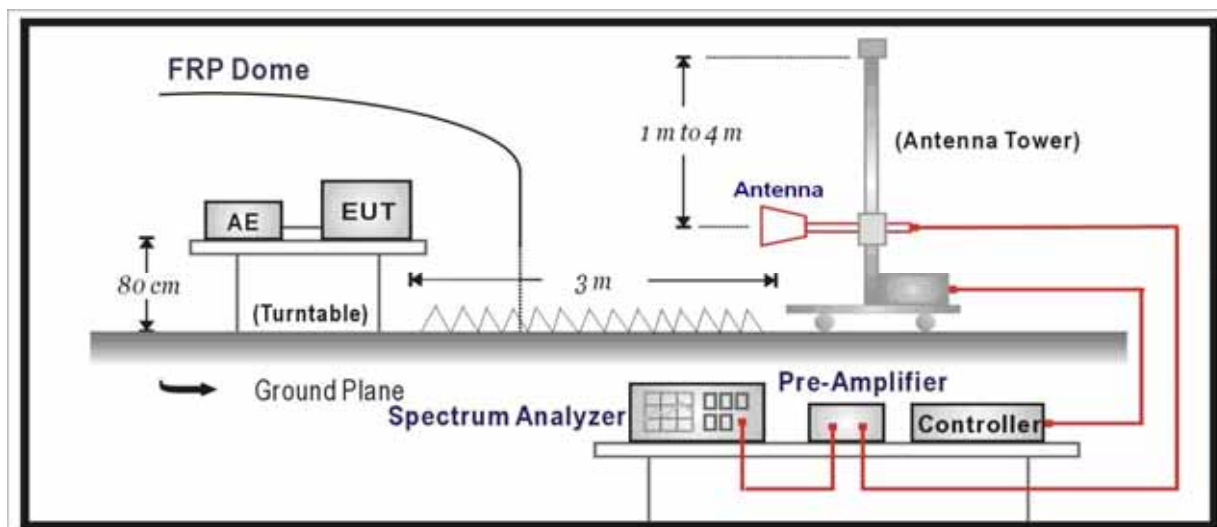
Below 30MHz Test Setup:



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, 2009 and tested according to KDB 558074 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 C63.4:2009 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

Mode1: Transmit by 802.11b

Chain	CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
Chain 0	1	H	3023.0	51.3	-10.8	40.5	54(note3)	-13.5	PK
		V	3125.0	50.9	-10.9	40.0	54(note3)	-14.0	PK
		H	4824.0	47.8	-34.5	13.3	54(note3)	-40.7	PK
		V	4825.0	49.0	-33.4	15.6	54(note3)	-38.4	PK
		H	7236.0	45.5	-31.9	13.6	54(note3)	-40.4	PK
		V	7236.0	44.4	-33.0	11.4	54(note3)	-42.6	PK
		H	9648.0	40.2	-31.2	9.0	54(note3)	-45.0	PK
		V	9648.0	39.9	-31.5	8.4	54(note3)	-45.6	PK
	6	H	3125.0	52.4	-10.6	41.8	54(note3)	-12.2	PK
		V	3116.5	50.9	-10.9	40.0	54(note3)	-14.0	PK
		H	4874.0	48.3	-34.0	14.3	54(note3)	-39.7	PK
		V	4874.0	48.7	-33.6	15.1	54(note3)	-38.9	PK
		H	7311.0	45.5	-31.8	13.7	54(note3)	-40.3	PK
		V	7311.0	45.0	-32.2	12.8	54(note3)	-41.2	PK
		H	9748.0	39.6	-31.8	7.8	54(note3)	-46.2	PK
		V	9748.0	39.1	-32.2	6.9	54(note3)	-47.1	PK
	11	H	3116.5	51.3	-10.6	40.7	54(note3)	-13.3	PK
		V	3159.0	51.2	-10.8	40.4	54(note3)	-13.6	PK
		H	4924.0	48.1	-34.3	13.8	54(note3)	-40.2	PK
		V	4924.0	49.6	-32.7	16.9	54(note3)	-37.1	PK
		H	7386.0	44.3	-32.7	11.6	54(note3)	-42.4	PK
		V	7386.0	44.9	-32.1	12.8	54(note3)	-41.2	PK
		H	9848.0	39.7	-31.2	8.5	54(note3)	-45.5	PK
		V	9848.0	39.3	-31.6	7.7	54(note3)	-46.3	PK
Chain 1	1	H	3040.0	51.5	-10.8	40.7	54(note3)	-13.3	PK
		V	3176.0	50.5	-10.7	39.8	54(note3)	-14.2	PK

		H	4825.0	48.8	-8.3	40.5	54(note3)	-13.5	PK
		V	4825.0	53.3	-8.4	44.9	54(note3)	-9.1	PK
		H	7236.0	42.9	-3.4	39.5	54(note3)	-14.5	PK
		V	7236.0	43.1	-3.4	39.7	54(note3)	-14.3	PK
		H	9648.0	37.8	2.6	40.4	54(note3)	-13.6	PK
		V	9648.0	38.3	2.6	40.9	54(note3)	-13.1	PK
	6	H	2955.0	50.6	-11.1	39.5	54(note3)	-14.5	PK
		V	3099.5	51.3	-11.0	40.3	54(note3)	-13.7	PK
		H	4874.0	46.5	-8.3	38.2	54(note3)	-15.8	PK
		V	4876.0	51.2	-8.3	42.9	54(note3)	-11.1	PK
		H	7311.0	43.3	-3.3	40.0	54(note3)	-14.0	PK
		V	7311.0	42.4	-3.3	39.1	54(note3)	-14.9	PK
		H	9748.0	37.5	2.7	40.2	54(note3)	-13.8	PK
		V	9748.0	37.4	2.8	40.2	54(note3)	-13.8	PK
	11	H	2980.5	51.1	-10.9	40.2	54(note3)	-13.8	PK
		V	3150.5	50.7	-10.8	39.9	54(note3)	-14.1	PK
		H	4924.0	46.8	-8.4	38.4	54(note3)	-15.6	PK
		V	4927.0	51.3	-8.3	43.0	54(note3)	-11.0	PK
		H	7386.0	42.3	-3.0	39.3	54(note3)	-14.7	PK
		V	7386.0	42.5	-3.0	39.5	54(note3)	-14.5	PK
		H	9848.0	37.2	3.1	40.3	54(note3)	-13.7	PK
		V	9848.0	37.0	3.2	40.2	54(note3)	-13.8	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. 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.

Mode2: Transmit by 802.11g

Chain	CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
Chain 0	1	H	3048.5	51.2	-10.7	40.5	54(note3)	-13.5	PK
		V	3159.0	50.8	-10.8	40.0	54(note3)	-14.0	PK
		H	4824.0	47.5	-8.3	39.2	54(note3)	-14.8	PK
		V	4824.0	48.0	-8.4	39.6	54(note3)	-14.4	PK

Chain 1		H	7236.0	44.9	-3.4	41.5	54(note3)	-12.5	PK
		V	7236.0	44.7	-3.4	41.3	54(note3)	-12.7	PK
		H	9648.0	39.8	2.6	42.3	54(note3)	-11.7	PK
		V	9648.0	40.5	2.6	43.2	54(note3)	-10.8	PK
	6	H	3125.0	53.3	-10.6	42.7	54(note3)	-11.3	PK
		V	3099.5	50.2	-11.0	39.2	54(note3)	-14.8	PK
		H	4874.0	47.8	-8.3	39.5	54(note3)	-14.5	PK
		V	4874.0	47.9	-8.3	39.6	54(note3)	-14.4	PK
		H	7311.0	44.7	-3.3	41.4	54(note3)	-12.6	PK
		V	7311.0	44.4	-3.3	41.1	54(note3)	-12.9	PK
		H	9748.0	39.4	2.7	42.1	54(note3)	-11.9	PK
		V	9748.0	39.7	2.8	42.5	54(note3)	-11.5	PK
	11	H	3125.0	51.9	-10.6	41.3	54(note3)	-12.7	PK
		V	3040.0	50.9	-11.1	39.8	54(note3)	-14.2	PK
		H	4924.0	47.8	-8.4	39.5	54(note3)	-14.5	PK
		V	4924.0	49.8	-8.3	41.5	54(note3)	-12.5	PK
		H	7386.0	44.7	-3.0	41.6	54(note3)	-12.4	PK
		V	7386.0	44.4	-3.0	41.4	54(note3)	-12.6	PK
		H	9848.0	39.1	3.1	42.2	54(note3)	-11.8	PK
		V	9848.0	39.0	3.2	42.1	54(note3)	-11.9	PK
	1	H	3125.0	52.0	-10.6	41.4	54(note3)	-12.6	PK
		V	3159.0	50.8	-10.8	40.0	54(note3)	-14.0	PK
		H	4824.0	46.6	-8.3	38.3	54(note3)	-15.7	PK
		V	4824.0	46.2	-8.4	37.8	54(note3)	-16.2	PK
		H	7236.0	43.3	-3.4	40.0	54(note3)	-14.1	PK
		V	7236.0	43.0	-3.4	39.6	54(note3)	-14.4	PK
		H	9648.0	38.0	2.6	40.6	54(note3)	-13.4	PK
		V	9648.0	38.3	2.6	40.9	54(note3)	-13.1	PK
		H	3023.0	51.3	-10.8	40.5	54(note3)	-13.5	PK
		V	3048.5	50.7	-10.7	40.0	54(note3)	-14.0	PK
		H	4874.0	46.3	-8.3	38.1	54(note3)	-16.0	PK
		V	4874.0	46.2	-8.3	37.9	54(note3)	-16.1	PK
		H	7311.0	43.5	-3.3	40.3	54(note3)	-13.7	PK
		V	7311.0	43.0	-3.3	39.7	54(note3)	-14.3	PK
		H	9748.0	38.5	2.7	41.2	54(note3)	-12.8	PK
		V	9748.0	38.0	2.8	40.7	54(note3)	-13.3	PK
	11	H	3116.5	51.7	-10.6	41.0	54(note3)	-13.0	PK

	V	3125.0	50.8	-10.9	39.9	54(note3)	-14.1	PK
	H	4924.0	46.2	-8.4	37.8	54(note3)	-16.2	PK
	V	4924.0	46.2	-8.3	37.9	54(note3)	-16.1	PK
	H	7386.0	42.9	-3.0	39.8	54(note3)	-14.2	PK
	V	7386.0	42.8	-3.0	39.8	54(note3)	-14.2	PK
	H	9848.0	37.2	3.1	40.3	54(note3)	-13.7	PK
	V	9848.0	36.7	3.2	39.9	54(note3)	-14.1	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. 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.

Mode3: Transmit by 802.11a

Chain	CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
Chain 0	149	H	11490.0	35.9	6.0	41.9	54(note3)	-12.1	PK
		V	11490.0	36.8	5.9	42.6	54(note3)	-11.4	PK
		H	13061.5	34.8	7.9	42.7	54(note3)	-11.3	PK
		V	13036.0	35.4	7.9	43.3	54(note3)	-10.7	PK
		H	17235.0	34.9	10.4	45.3	54(note3)	-8.7	PK
		V	17235.0	34.7	10.5	45.2	54(note3)	-8.8	PK
	157	H	11570.0	35.5	6.2	41.7	54(note3)	-12.3	PK
		V	11570.0	36.7	6.1	42.8	54(note3)	-11.2	PK
		H	13095.5	34.9	8.0	42.9	54(note3)	-11.1	PK
		V	13087.0	34.5	8.0	42.5	54(note3)	-11.5	PK
		H	17355.0	35.2	10.3	45.5	54(note3)	-8.5	PK
		V	17355.0	35.2	10.4	45.6	54(note3)	-8.4	PK
	165	H	11650.0	36.6	6.6	43.3	54(note3)	-10.7	PK
		V	11650.0	35.6	6.5	42.1	54(note3)	-11.9	PK
		H	13206.0	34.2	8.4	42.6	54(note3)	-11.4	PK
		V	13036.0	34.5	7.9	42.3	54(note3)	-11.7	PK
		H	17475.0	35.1	10.5	45.6	54(note3)	-8.4	PK
		V	17475.0	34.4	10.6	45.0	54(note3)	-9.0	PK
Chain	149	H	11490.0	39.2	6.0	45.2	54(note3)	-8.8	PK

1		V	11490.0	39.4	5.9	45.2	54(note3)	-8.8	PK
		H	13163.5	35.8	8.2	44.0	54(note3)	-10.0	PK
		V	13121.0	34.7	8.0	42.7	54(note3)	-11.3	PK
		H	17235.0	37.0	10.4	47.4	54(note3)	-6.6	PK
		V	17235.0	37.0	10.5	47.5	54(note3)	-6.5	PK
	157	H	11570.0	37.9	6.2	44.1	54(note3)	-9.9	PK
		V	11570.0	40.4	6.1	46.6	54(note3)	-7.4	PK
		H	13146.5	36.1	8.1	44.3	54(note3)	-9.7	PK
		V	13146.5	37.8	8.1	45.8	54(note3)	-8.2	PK
		H	17355.0	37.8	10.3	48.2	54(note3)	-5.8	PK
		V	17355.0	39.7	10.4	50.1	54(note3)	-3.9	PK
	165	H	11650.0	38.0	6.6	44.6	54(note3)	-9.4	PK
		V	11650.0	38.2	6.5	44.7	54(note3)	-9.3	PK
		H	13155.0	34.6	8.1	42.7	54(note3)	-11.3	PK
		V	13036.0	35.4	7.9	43.3	54(note3)	-10.7	PK
		H	17475.0	37.3	10.5	47.8	54(note3)	-6.2	PK
		V	17475.0	36.7	10.6	47.3	54(note3)	-6.7	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. 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.

Mode4: Transmit by 802.11n(20MHz)

Chain	CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
Chain 0	1	H	3125.0	51.7	-10.6	41.1	54(note3)	-12.9	PK
		V	3116.5	51.7	-10.9	40.8	54(note3)	-13.2	PK
		H	4824.0	47.5	-8.3	39.2	54(note3)	-14.8	PK
		V	4824.0	47.7	-8.4	39.3	54(note3)	-14.7	PK
		H	7236.0	44.9	-3.4	41.5	54(note3)	-12.5	PK
		V	7236.0	44.4	-3.4	41.0	54(note3)	-13.0	PK
		H	9648.0	40.0	2.6	42.6	54(note3)	-11.4	PK
		V	9648.0	39.6	2.6	42.2	54(note3)	-11.8	PK
		H	3116.5	52.3	-10.6	41.7	54(note3)	-12.3	PK

Chain 1	6	V	2989.0	51.2	-11.2	40.0	54(note3)	-14.0	PK
		H	4874.0	47.8	-8.3	39.5	54(note3)	-14.5	PK
		V	4874.0	48.2	-8.3	39.9	54(note3)	-14.1	PK
		H	7311.0	44.6	-3.3	41.3	54(note3)	-12.7	PK
		V	7311.0	44.6	-3.3	41.3	54(note3)	-12.7	PK
		H	9748.0	40.0	2.7	42.7	54(note3)	-11.3	PK
		V	9748.0	39.5	2.8	42.3	54(note3)	-11.7	PK
	11	H	3193.0	50.8	-10.5	40.3	54(note3)	-13.7	PK
		V	2921.0	49.3	-11.2	38.1	54(note3)	-15.9	PK
		H	4924.0	48.1	-8.4	39.7	54(note3)	-14.3	PK
		V	4924.0	49.4	-8.3	41.1	54(note3)	-12.9	PK
		H	7386.0	44.3	-3.0	41.3	54(note3)	-12.7	PK
		V	7386.0	45.0	-3.0	42.0	54(note3)	-12.0	PK
		H	9848.0	39.1	3.1	42.2	54(note3)	-11.8	PK
		V	9848.0	39.1	3.2	42.3	54(note3)	-11.7	PK
	149	H	11490.0	35.1	6.0	41.1	54(note3)	-12.9	PK
		V	11490.0	35.5	5.9	41.4	54(note3)	-12.6	PK
		H	13027.5	36.2	7.9	44.1	54(note3)	-9.9	PK
		V	13036.0	36.5	7.9	44.4	54(note3)	-9.6	PK
		H	17235.0	34.2	10.4	44.6	54(note3)	-9.4	PK
		V	17235.0	33.6	10.5	44.1	54(note3)	-9.9	PK
	157	H	11570.0	36.0	6.2	42.2	54(note3)	-11.8	PK
		V	11570.0	35.7	6.1	41.8	54(note3)	-12.2	PK
		H	13172.0	36.1	8.2	44.3	54(note3)	-9.7	PK
		V	13053.0	37.0	8.0	45.0	54(note3)	-9.0	PK
		H	17355.0	35.3	10.3	45.6	54(note3)	-8.4	PK
		V	17355.0	33.6	10.4	44.0	54(note3)	-10.0	PK
	165	H	11650.0	34.0	6.6	40.6	54(note3)	-13.4	PK
		V	11650.0	35.0	6.5	41.5	54(note3)	-12.5	PK
		H	13104.0	35.8	8.0	43.8	54(note3)	-10.2	PK
		V	13112.5	37.4	8.0	45.4	54(note3)	-8.6	PK
		H	17475.0	34.1	10.5	44.6	54(note3)	-9.4	PK
		V	17475.0	34.1	10.6	44.7	54(note3)	-9.3	PK
Chain 1	1	H	3040.0	50.7	-10.8	39.9	54(note3)	-14.1	PK
		V	3193.0	51.8	-10.7	41.1	54(note3)	-12.9	PK
		H	4824.0	45.9	-8.3	37.6	54(note3)	-16.4	PK
		V	4824.0	47.6	-8.4	39.2	54(note3)	-14.8	PK

		H	7236.0	42.8	-3.4	39.4	54(note3)	-14.6	PK
		V	7236.0	43.7	-3.4	40.3	54(note3)	-13.7	PK
		H	9648.0	37.5	2.6	40.1	54(note3)	-13.9	PK
		V	9648.0	37.6	2.6	40.2	54(note3)	-13.8	PK
	6	H	3116.5	51.5	-10.6	40.9	54(note3)	-13.1	PK
		V	2929.5	52.0	-11.2	40.8	54(note3)	-13.2	PK
		H	4874.0	45.7	-8.3	37.4	54(note3)	-16.6	PK
		V	4874.0	46.1	-8.3	37.8	54(note3)	-16.2	PK
		H	7311.0	42.7	-3.3	39.4	54(note3)	-14.6	PK
		V	7311.0	43.2	-3.3	39.9	54(note3)	-14.1	PK
		H	9748.0	37.6	2.7	40.3	54(note3)	-13.7	PK
		V	9748.0	37.5	2.8	40.3	54(note3)	-13.7	PK
	11	H	3065.5	50.3	-10.7	39.6	54(note3)	-14.4	PK
		V	3116.5	52.2	-10.9	41.3	54(note3)	-12.7	PK
		H	4924.0	45.9	-8.4	37.5	54(note3)	-16.5	PK
		V	4924.0	45.9	-8.3	37.6	54(note3)	-16.4	PK
		H	7386.0	42.8	-3.0	39.8	54(note3)	-14.2	PK
		V	7386.0	42.6	-3.0	39.6	54(note3)	-14.4	PK
		H	9848.0	37.6	3.1	40.7	54(note3)	-13.3	PK
		V	9848.0	37.2	3.2	40.4	54(note3)	-13.6	PK
	149	H	11490.0	38.1	6.0	44.1	54(note3)	-9.9	PK
		V	11490.0	38.8	5.9	44.7	54(note3)	-9.3	PK
		H	13087.0	34.3	8.0	42.3	54(note3)	-11.7	PK
		V	13155.0	35.8	8.1	43.9	54(note3)	-10.1	PK
		H	17235.0	36.9	10.4	47.3	54(note3)	-6.7	PK
		V	17235.0	36.9	10.5	47.4	54(note3)	-6.6	PK
	157	H	11570.0	39.0	6.2	45.2	54(note4)	-8.8	PK
		V	11570.0	39.7	6.1	45.8	54(note5)	-8.2	PK
		H	13112.5	34.9	8.0	42.9	54(note6)	-11.1	PK
		V	13095.5	34.7	8.0	42.7	54(note7)	-11.3	PK
		H	17355.0	38.0	10.3	48.3	54(note8)	-5.7	PK
		V	17355.0	37.8	10.4	48.2	54(note9)	-5.8	PK
	165	H	11650.0	38.4	6.6	45.0	54(note10)	-9.0	PK
		V	11650.0	39.0	6.5	45.5	54(note11)	-8.5	PK
		H	13053.0	34.7	8.0	42.7	54(note12)	-11.3	PK
		V	13112.5	36.0	8.0	44.0	54(note13)	-10.0	PK
		H	17475.0	36.8	10.5	47.3	54(note14)	-6.7	PK

		V	17475.0	36.9	10.6	47.5	54(note15)	-6.5	PK
Chain 0+1	1	H	3014.5	50.8	-10.8	40.0	54(note16)	-14.0	PK
		V	2989.0	51.2	-11.2	40.0	54(note17)	-14.0	PK
		H	4824.0	48.0	-8.3	39.7	54(note18)	-14.3	PK
		V	4824.0	48.8	-8.4	40.4	54(note19)	-13.6	PK
		H	7236.0	43.2	-3.4	39.8	54(note20)	-14.2	PK
		V	7236.0	42.8	-3.4	39.4	54(note21)	-14.6	PK
		H	9648.0	39.9	2.6	42.5	54(note22)	-11.5	PK
		V	9648.0	39.3	2.6	41.9	54(note23)	-12.1	PK
	6	H	3006.0	50.9	-10.8	40.1	54(note24)	-13.9	PK
		V	3159.0	50.8	-10.8	40.0	54(note25)	-14.0	PK
		H	4874.0	47.4	-8.3	39.1	54(note26)	-14.9	PK
		V	4874.0	48.8	-8.3	40.5	54(note27)	-13.5	PK
		H	7311.0	43.2	-3.3	39.9	54(note28)	-14.1	PK
		V	7311.0	44.3	-3.3	41.0	54(note29)	-13.0	PK
		H	9748.0	39.5	2.7	42.2	54(note30)	-11.8	PK
		V	9748.0	39.1	2.8	41.9	54(note31)	-12.1	PK
	11	H	3125.0	51.0	-10.6	40.4	54(note32)	-13.6	PK
		V	3040.0	50.9	-11.1	39.8	54(note33)	-14.2	PK
		H	4924.0	48.1	-8.4	39.7	54(note34)	-14.3	PK
		V	4924.0	48.1	-8.3	39.8	54(note35)	-14.2	PK
		H	7386.0	43.3	-3.0	40.3	54(note36)	-13.7	PK
		V	7386.0	44.0	-3.0	41.0	54(note37)	-13.0	PK
		H	9848.0	38.8	3.1	41.9	54(note38)	-12.1	PK
		V	9848.0	39.0	3.2	42.2	54(note39)	-11.8	PK
	149	H	11490.0	38.5	6.0	44.5	54(note40)	-9.5	PK
		V	11490.0	38.3	5.9	44.2	54(note41)	-9.8	PK
		H	13053.0	36.3	8.0	44.3	54(note42)	-9.7	PK
		V	13087.0	35.7	8.0	43.7	54(note43)	-10.3	PK
		H	17235.0	37.2	10.4	47.6	54(note44)	-6.4	PK
		V	17235.0	37.3	10.5	47.8	54(note45)	-6.2	PK
	157	H	11570.0	38.2	6.2	44.4	54(note46)	-9.6	PK
		V	11570.0	39.3	6.1	45.4	54(note47)	-8.6	PK
		H	13095.5	36.8	8.0	44.8	54(note48)	-9.2	PK
		V	13112.5	37.6	8.0	45.6	54(note49)	-8.4	PK
		H	17355.0	37.7	10.3	48.0	54(note50)	-6.0	PK
		V	17355.0	38.8	10.4	49.2	54(note51)	-4.8	PK

	165	H	11650.0	38.9	6.6	45.5	54(note52)	-8.5	PK
		V	11650.0	38.4	6.5	44.9	54(note53)	-9.1	PK
		H	13027.5	36.1	7.9	44.0	54(note54)	-10.0	PK
		V	13027.5	35.9	7.8	43.7	54(note55)	-10.3	PK
		H	17475.0	36.7	10.5	47.2	54(note56)	-6.8	PK
		V	17475.0	37.0	10.6	47.6	54(note57)	-6.4	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. 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.

Mode5: Transmit by 802.11n(40MHz)

Chain	CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
Chain 0	3	H	3125.0	50.6	-10.6	40.0	54(note3)	-14.0	PK
		V	3108.0	51.1	-11.0	40.1	54(note3)	-13.9	PK
		H	4844.0	48.4	-8.3	40.1	54(note3)	-13.9	PK
		V	4844.0	49.1	-8.4	40.7	54(note3)	-13.3	PK
		H	7266.0	44.9	-3.3	41.6	54(note3)	-12.4	PK
		V	7266.0	45.2	-3.3	41.9	54(note3)	-12.1	PK
		H	9688.0	41.0	2.7	43.7	54(note3)	-10.3	PK
		V	9688.0	38.9	2.8	41.7	54(note3)	-12.3	PK
	6	H	3116.5	51.9	-10.6	41.3	54(note3)	-12.7	PK
		V	3014.5	51.1	-11.2	39.9	54(note3)	-14.1	PK
		H	4874.0	48.8	-8.3	40.5	54(note3)	-13.5	PK
		V	4874.0	48.0	-8.3	39.7	54(note3)	-14.3	PK
		H	7311.0	45.2	-3.3	41.9	54(note3)	-12.1	PK
		V	7311.0	44.7	-3.3	41.4	54(note3)	-12.6	PK
		H	9748.0	40.3	2.7	43.0	54(note3)	-11.0	PK
		V	9748.0	39.6	2.8	42.4	54(note3)	-11.6	PK
	9	H	3091.0	50.7	-10.7	40.0	54(note3)	-14.0	PK
		V	3031.5	50.7	-11.1	39.6	54(note3)	-14.4	PK
		H	4904.0	48.6	-8.3	40.3	54(note3)	-13.7	PK
		V	4904.0	47.9	-8.3	39.6	54(note3)	-14.4	PK

Chain 1	151	H	7356.0	44.4	-3.1	41.3	54(note3)	-12.7	PK
		V	7356.0	44.5	-3.1	41.4	54(note3)	-12.6	PK
		H	9808.0	39.4	3.0	42.4	54(note3)	-11.6	PK
		V	9808.0	38.6	3.0	41.6	54(note3)	-12.4	PK
		H	11510.0	34.8	6.1	40.9	54(note3)	-13.1	PK
		V	11510.0	34.4	6.0	40.4	54(note3)	-13.6	PK
		H	13087.0	37.2	8.0	45.2	54(note3)	-8.8	PK
		V	13087.0	36.1	8.0	44.1	54(note3)	-9.9	PK
	159	H	17265.0	35.2	10.5	45.7	54(note3)	-8.3	PK
		V	17265.0	34.6	10.6	45.2	54(note3)	-8.8	PK
		H	11590.0	36.5	6.4	42.9	54(note3)	-11.1	PK
		V	11590.0	34.7	6.3	41.0	54(note3)	-13.0	PK
		H	13087.0	37.2	8.0	45.2	54(note3)	-8.8	PK
		V	13121.0	35.3	8.0	43.3	54(note3)	-10.7	PK
		H	17385.0	34.7	10.2	44.9	54(note3)	-9.1	PK
		V	17385.0	31.9	10.3	42.2	54(note3)	-11.8	PK
	3	H	2980.5	50.5	-10.9	39.6	54(note3)	-14.4	PK
		V	3142.0	51.8	-10.8	41.0	54(note3)	-13.0	PK
		H	4844.0	47.2	-8.3	38.9	54(note3)	-15.1	PK
		V	4844.0	47.0	-8.4	38.6	54(note3)	-15.4	PK
		H	7266.0	42.6	-3.3	39.3	54(note3)	-14.7	PK
		V	7266.0	43.2	-3.3	39.9	54(note3)	-14.1	PK
		H	9688.0	39.1	2.7	41.8	54(note3)	-12.2	PK
		V	9688.0	38.9	2.8	41.7	54(note3)	-12.3	PK
	6	H	2997.5	50.6	-10.9	39.7	54(note3)	-14.3	PK
		V	3116.5	51.0	-10.9	40.1	54(note3)	-13.9	PK
		H	4924.0	46.9	-8.4	38.5	54(note3)	-15.5	PK
		V	4924.0	47.1	-8.3	38.8	54(note3)	-15.2	PK
		H	7311.0	43.9	-3.3	40.6	54(note3)	-13.4	PK
		V	7311.0	43.5	-3.3	40.2	54(note3)	-13.8	PK
		H	9748.0	39.0	2.7	41.7	54(note3)	-12.3	PK
		V	9748.0	39.1	2.8	41.9	54(note3)	-12.1	PK
	9	H	2997.5	50.3	-10.9	39.4	54(note3)	-14.6	PK
		V	3006.0	50.8	-11.2	39.6	54(note3)	-14.4	PK
		H	4904.0	47.3	-8.3	39.0	54(note3)	-15.0	PK
		V	4904.0	47.7	-8.3	39.4	54(note3)	-14.6	PK
		H	7356.0	43.8	-3.1	40.7	54(note3)	-13.3	PK

		V	7356.0	43.5	-3.1	40.4	54(note3)	-13.6	PK
		H	9808.0	38.7	3.0	41.7	54(note3)	-12.3	PK
		V	9808.0	38.8	3.0	41.8	54(note3)	-12.2	PK
	151	H	11510.0	38.7	6.1	44.8	54(note3)	-9.2	PK
		V	11510.0	38.6	6.0	44.6	54(note3)	-9.4	PK
		H	13087.0	37.2	8.0	45.2	54(note3)	-8.8	PK
		V	13197.5	36.0	8.3	44.3	54(note3)	-9.7	PK
		H	17265.0	38.8	10.5	49.3	54(note3)	-4.7	PK
		V	17265.0	38.4	10.6	49.0	54(note3)	-5.0	PK
	159	H	11590.0	38.3	6.4	44.7	54(note3)	-9.3	PK
		V	11590.0	38.8	6.3	45.1	54(note3)	-8.9	PK
		H	13095.5	36.8	8.0	44.8	54(note3)	-9.2	PK
		V	13095.5	34.7	8.0	42.7	54(note3)	-11.3	PK
		H	17385.0	37.2	10.2	47.4	54(note3)	-6.6	PK
		V	17385.0	36.7	10.3	47.0	54(note3)	-7.0	PK
Chain 0+1	3	H	3006.0	51.1	-10.8	40.3	54(note4)	-13.7	PK
		V	3031.5	50.7	-11.1	39.6	54(note5)	-14.4	PK
		H	4844.0	47.6	-8.3	39.3	54(note6)	-14.7	PK
		V	4844.0	47.9	-8.4	39.5	54(note7)	-14.5	PK
		H	7266.0	43.1	-3.3	39.8	54(note8)	-14.2	PK
		V	7266.0	43.6	-3.3	40.3	54(note9)	-13.7	PK
		H	9688.0	38.8	2.7	41.5	54(note10)	-12.5	PK
		V	9688.0	38.6	2.8	41.4	54(note11)	-12.6	PK
	6	H	3116.5	51.3	-10.6	40.7	54(note12)	-13.3	PK
		V	3014.5	51.1	-11.2	39.9	54(note13)	-14.1	PK
		H	4874.0	47.0	-8.3	38.7	54(note14)	-15.3	PK
		V	4874.0	47.4	-8.3	39.1	54(note15)	-14.9	PK
		H	7311.0	43.5	-3.3	40.2	54(note16)	-13.8	PK
		V	7311.0	43.8	-3.3	40.5	54(note17)	-13.5	PK
		H	9748.0	39.0	2.7	41.7	54(note18)	-12.3	PK
		V	9748.0	39.0	2.8	41.8	54(note19)	-12.2	PK
	9	H	2989.0	50.4	-10.9	39.5	54(note20)	-14.5	PK
		V	3108.0	51.1	-11.0	40.1	54(note21)	-13.9	PK
		H	4904.0	47.4	-8.3	39.1	54(note22)	-14.9	PK
		V	4904.0	47.1	-8.3	38.8	54(note23)	-15.2	PK
		H	7356.0	44.4	-3.1	41.3	54(note24)	-12.7	PK
		V	7356.0	44.6	-3.1	41.5	54(note25)	-12.5	PK

		H	9808.0	38.6	3.0	41.6	54(note26)	-12.4	PK
		V	9808.0	39.1	3.0	42.1	54(note27)	-11.9	PK
	151	H	11510.0	38.3	6.1	44.4	54(note28)	-9.6	PK
		V	11510.0	38.2	6.0	44.2	54(note29)	-9.8	PK
		H	13121.0	35.4	8.0	43.4	54(note30)	-10.6	PK
		V	13146.5	37.7	8.1	45.8	54(note31)	-8.2	PK
		H	17265.0	38.4	10.5	48.9	54(note32)	-5.1	PK
		V	17265.0	38.3	10.6	48.9	54(note33)	-5.1	PK
	159	H	11590.0	38.2	6.4	44.6	54(note34)	-9.4	PK
		V	11590.0	38.4	6.3	44.7	54(note35)	-9.3	PK
		H	13146.5	36.8	8.1	44.9	54(note36)	-9.1	PK
		V	13078.5	35.3	7.9	43.2	54(note37)	-10.8	PK
		H	17385.0	37.5	10.2	47.7	54(note38)	-6.3	PK
		V	17385.0	36.9	10.3	47.2	54(note39)	-6.8	PK

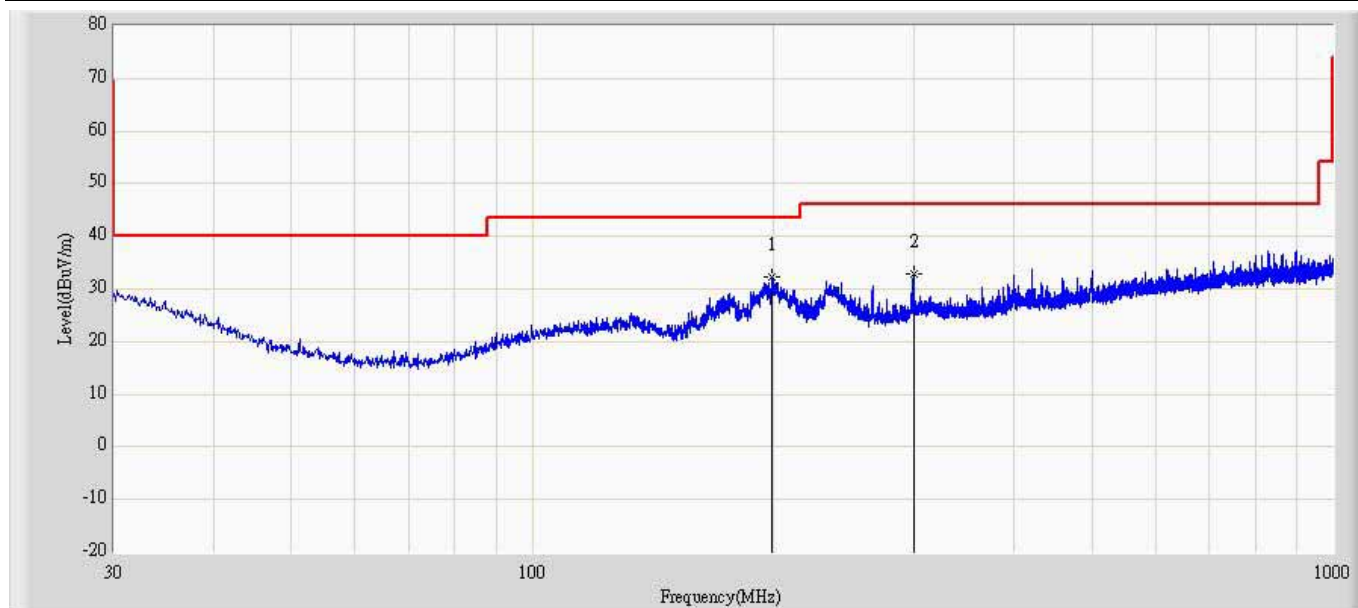
Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. 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.

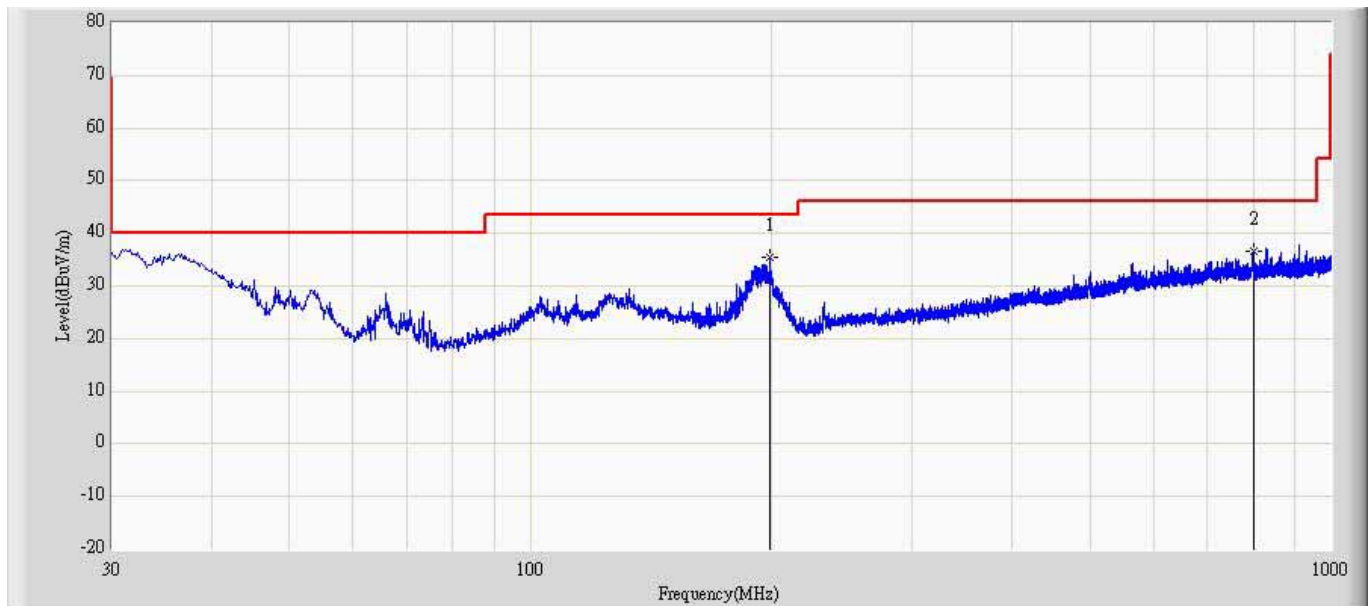
The worst case of Radiated Emission below 1GHz:

Site: AC2	Time: 2013/04/20 - 10:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode1: Transmit	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	199.386	32.337	16.238	-11.163	43.500	16.099	QP
2		299.781	32.757	12.294	-13.243	46.000	20.463	QP

Site: AC2	Time: 2013/04/20 - 10:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode1: Transmit	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	199.023	35.516	19.430	-7.984	43.500	16.087	QP
2		799.331	36.490	7.921	-9.510	46.000	28.569	QP

5. RF Antenna Conducted Spurious

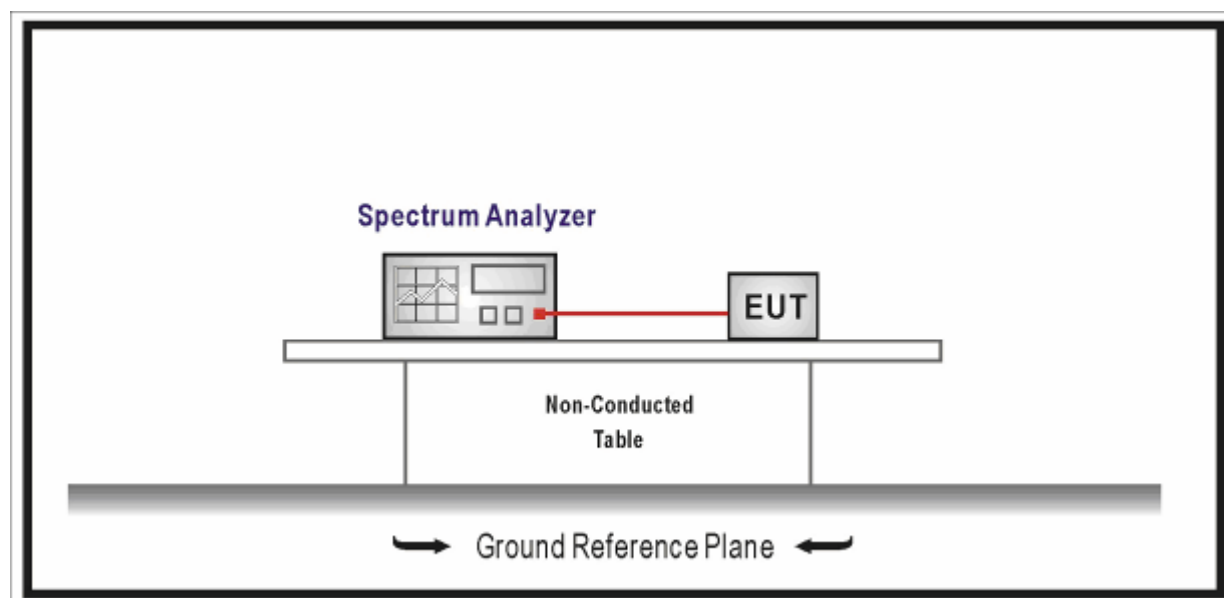
5.1. Test Equipment

RF Antenna Conducted Spurious / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2014.01.21
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2014.05.07

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 KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

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

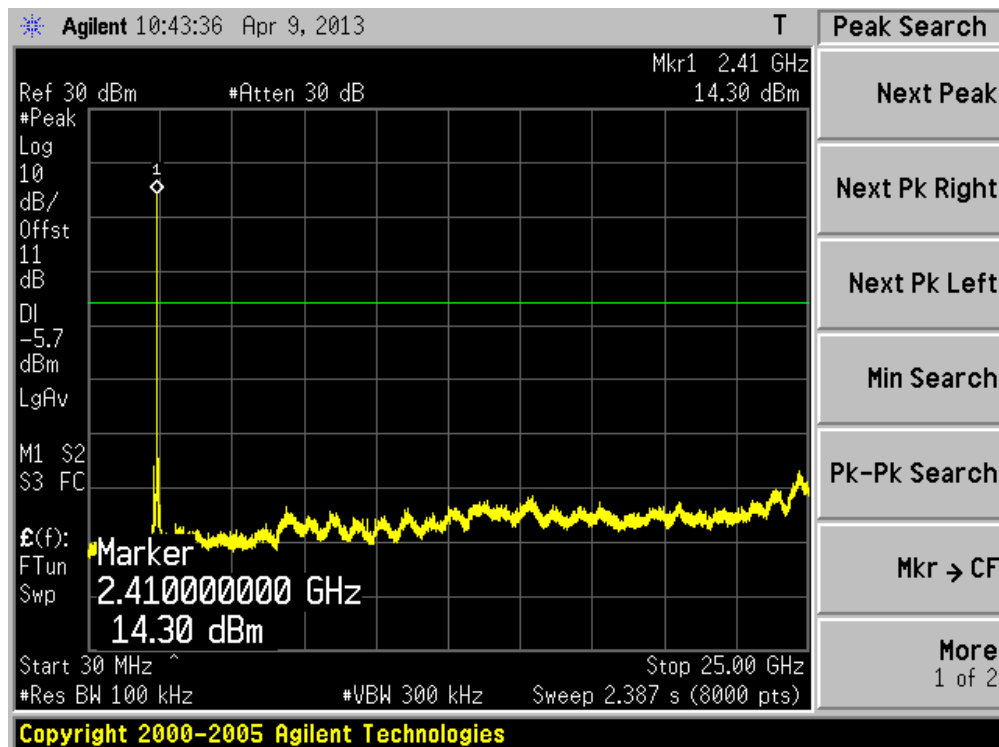
5.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

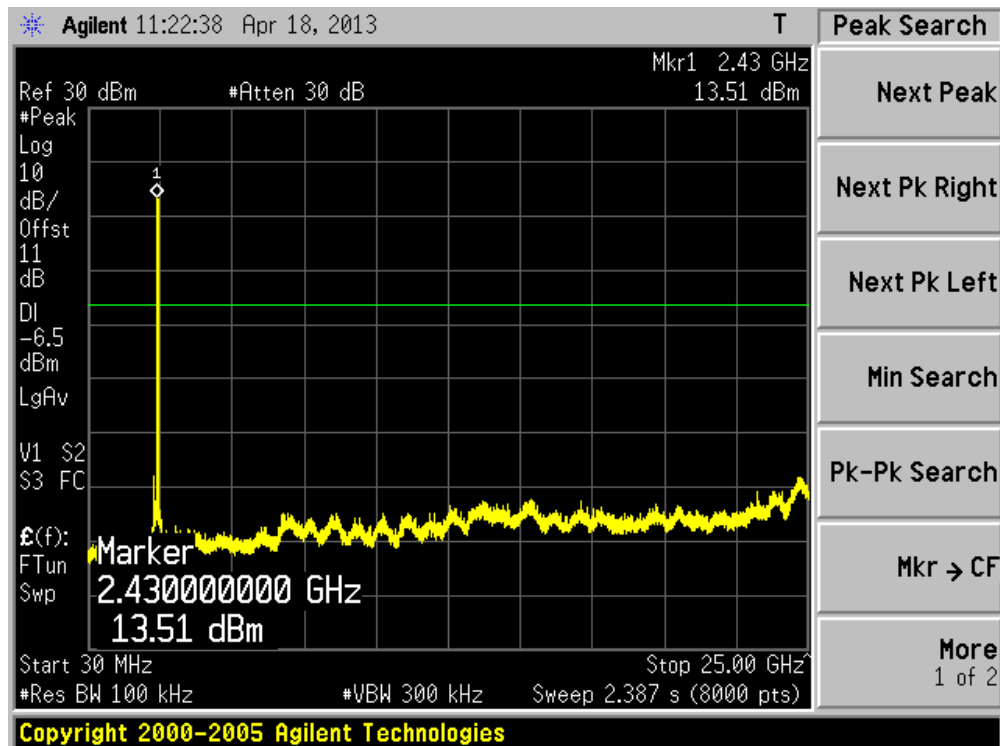
5.6. Test Result

Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 0)

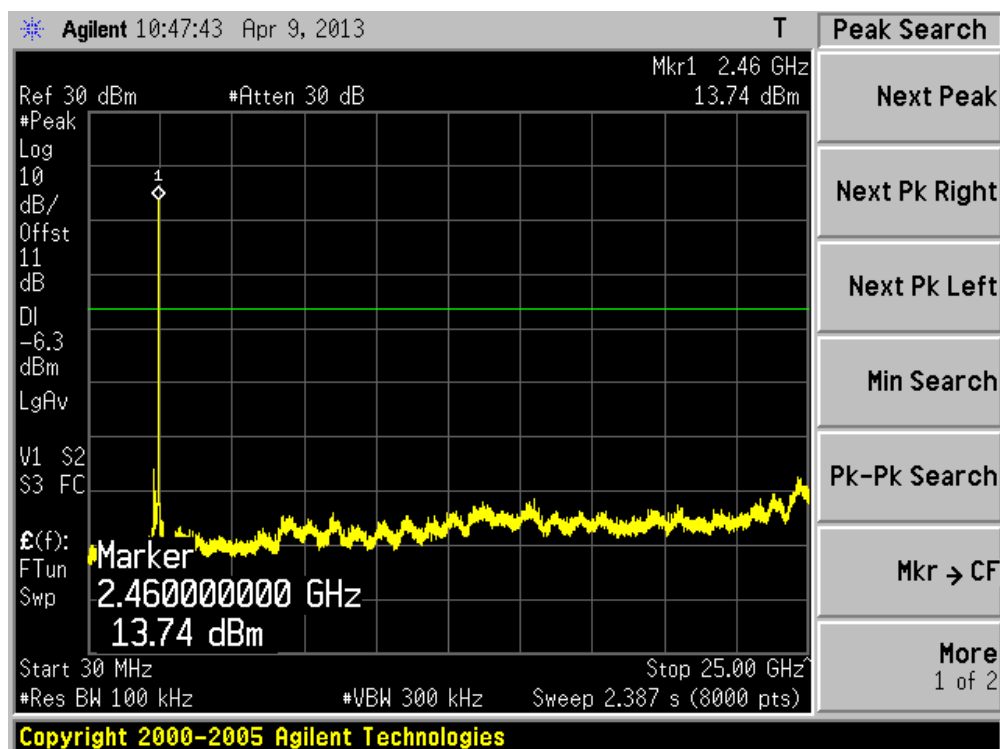
Channel 01 (2412MHz)



Channel 06 (2437MHz)

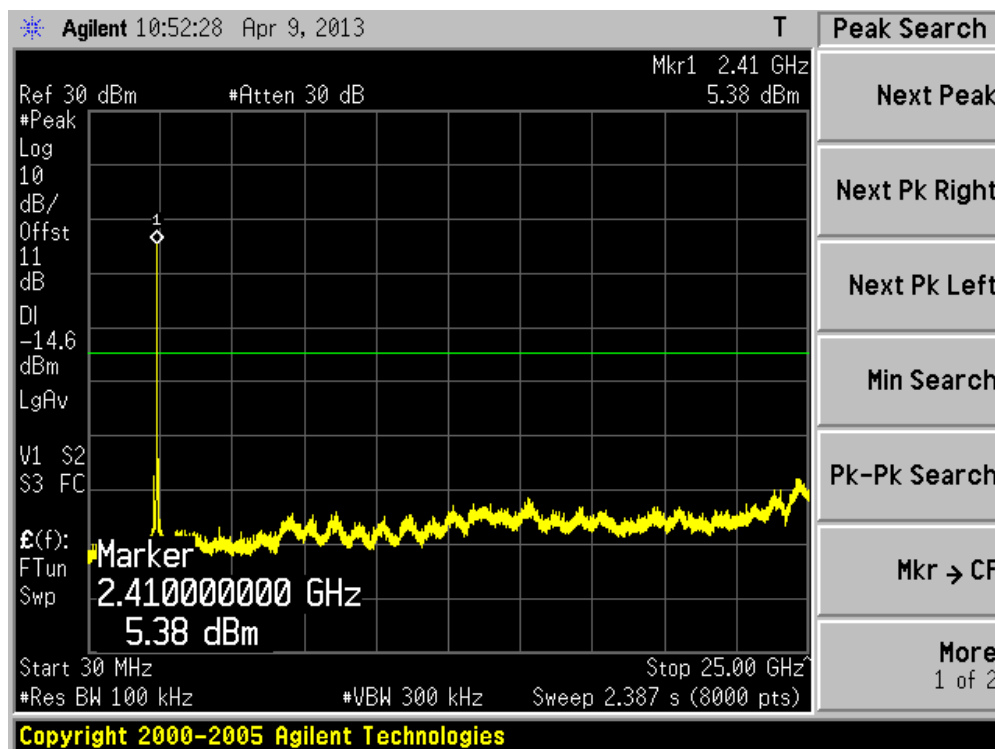


Channel 11 (2462MHz)

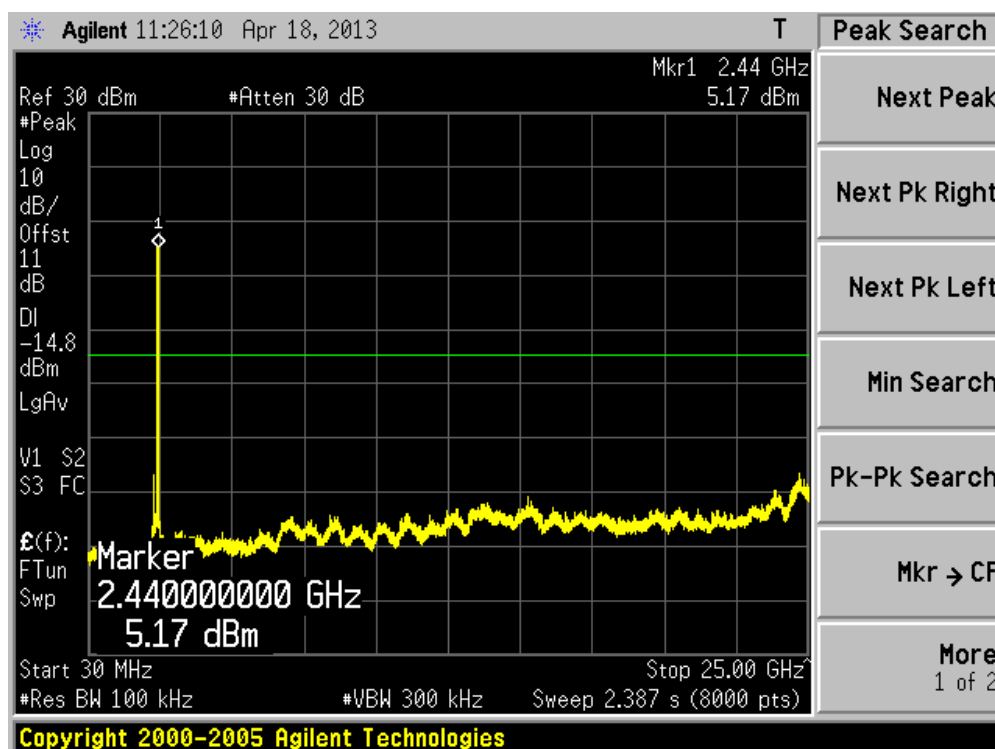


Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 0)

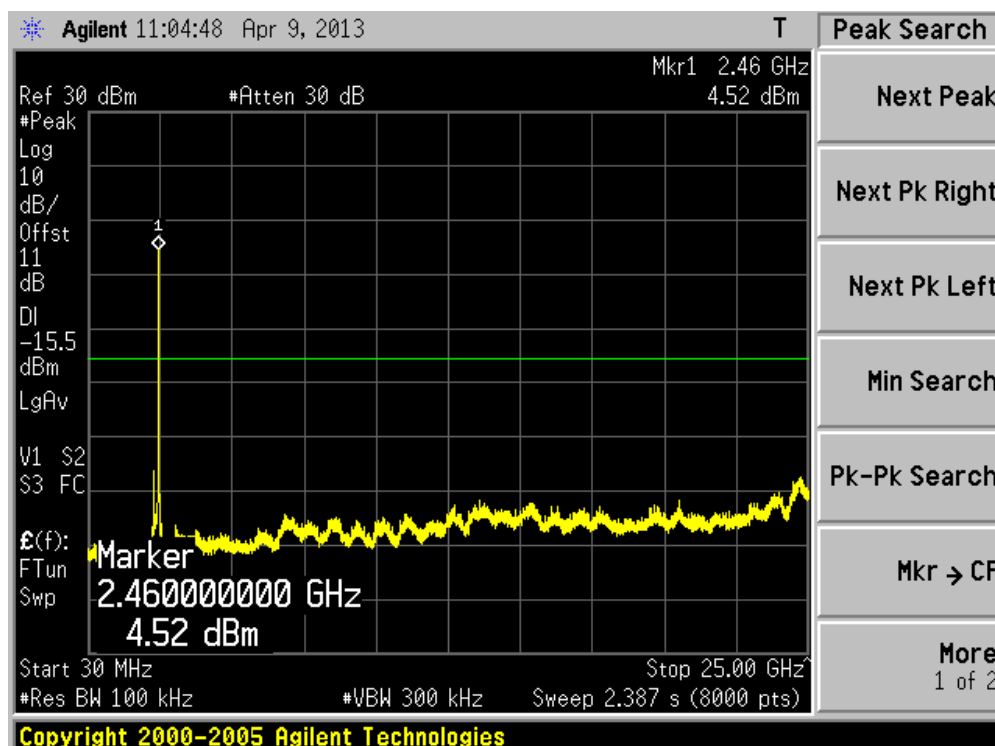
Channel 01 (2412MHz)



Channel 06 (2437MHz)

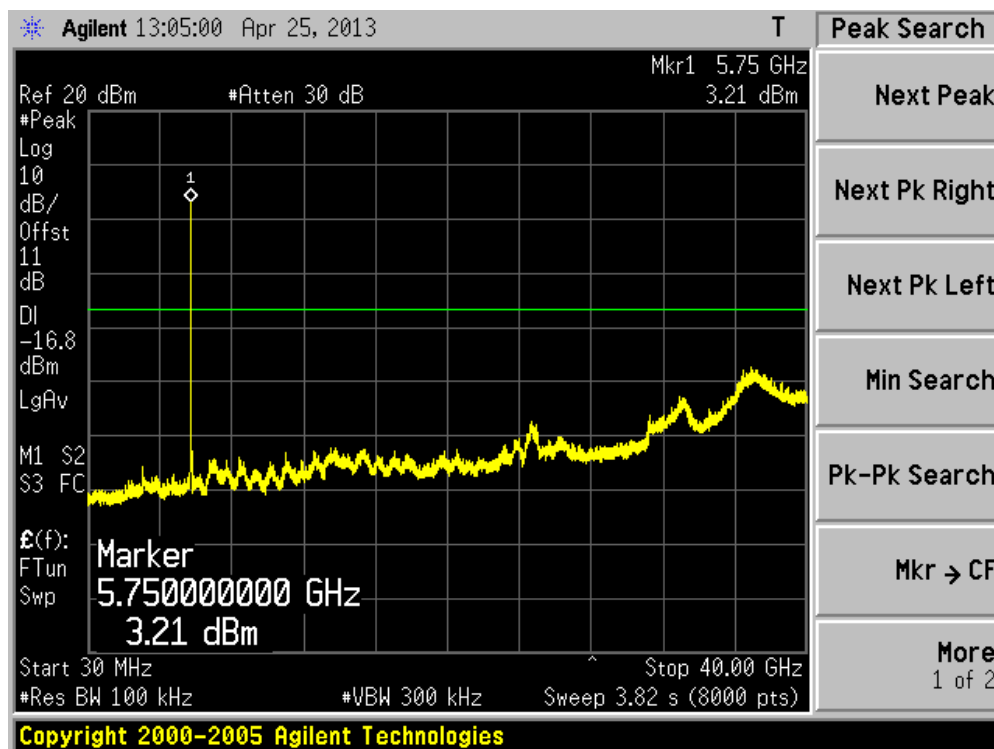


Channel 11 (2462MHz)

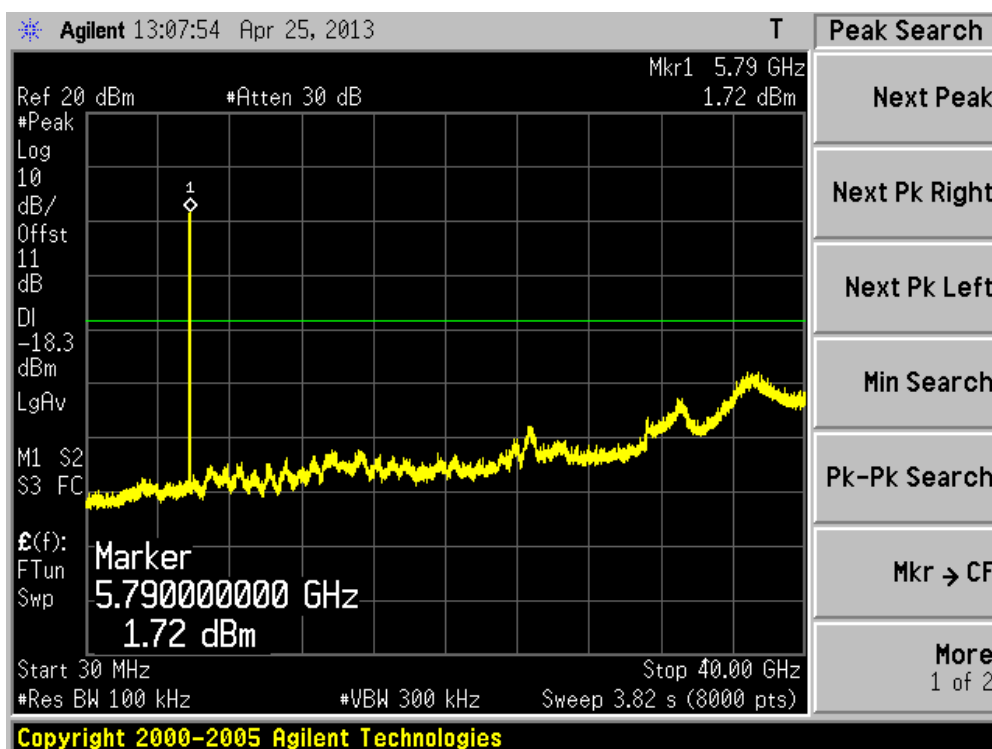


Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11a (Chain 0)

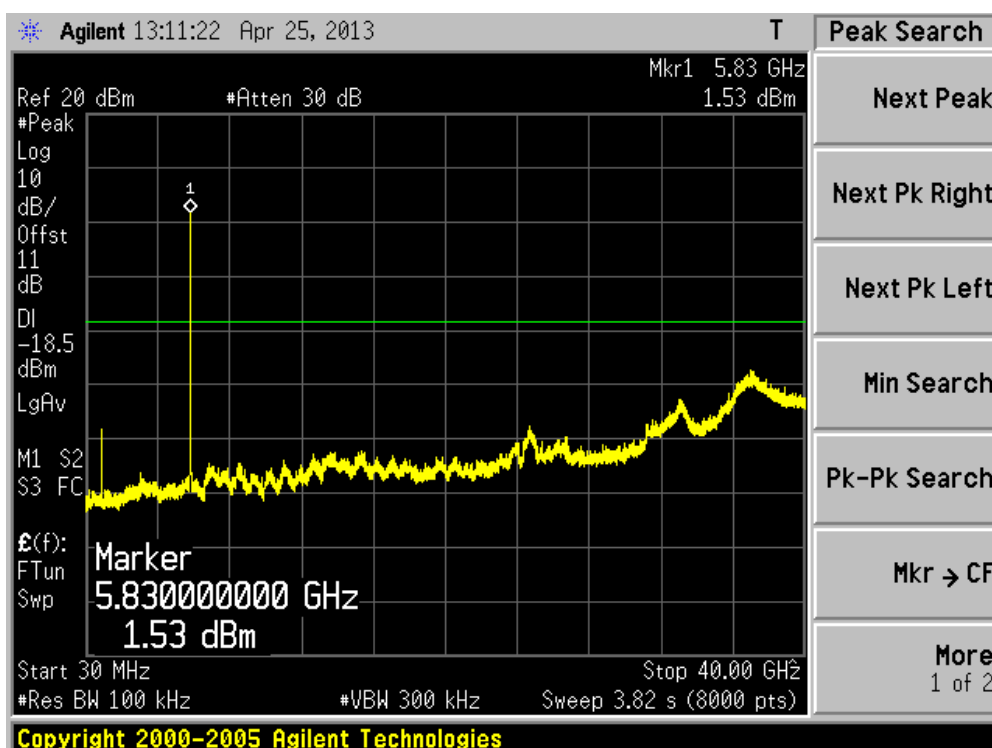
Channel 149 (5745MHz)



Channel 157 (5785MHz)

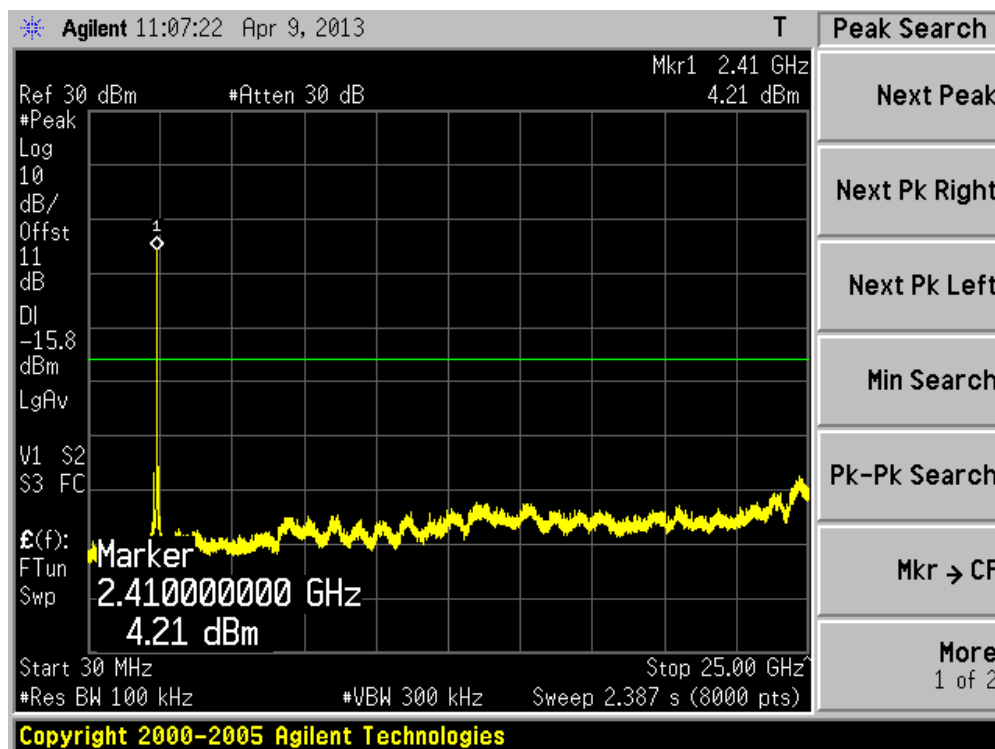


Channel 165 (5825MHz)

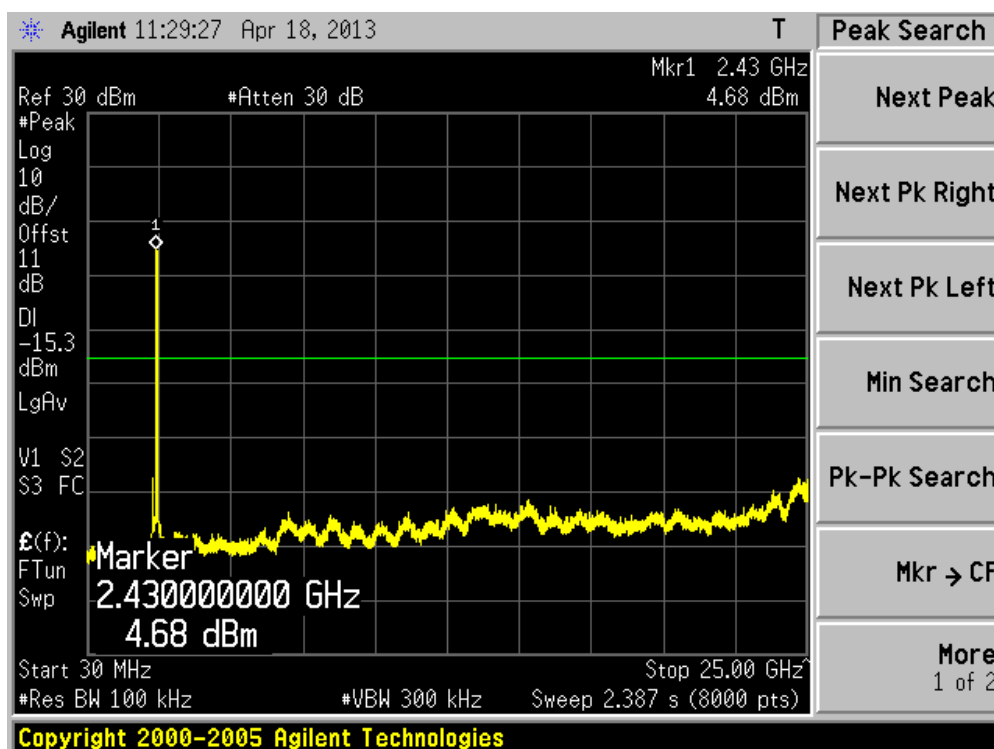


Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n (20MHz)(Chain 0)

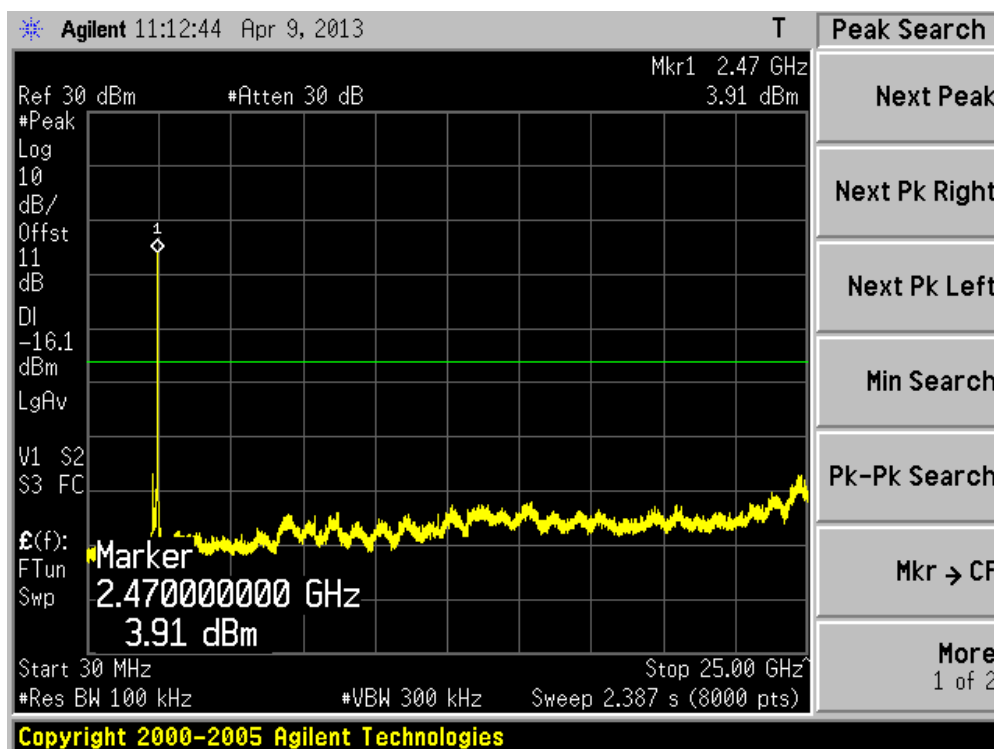
Channel 01 (2412MHz)



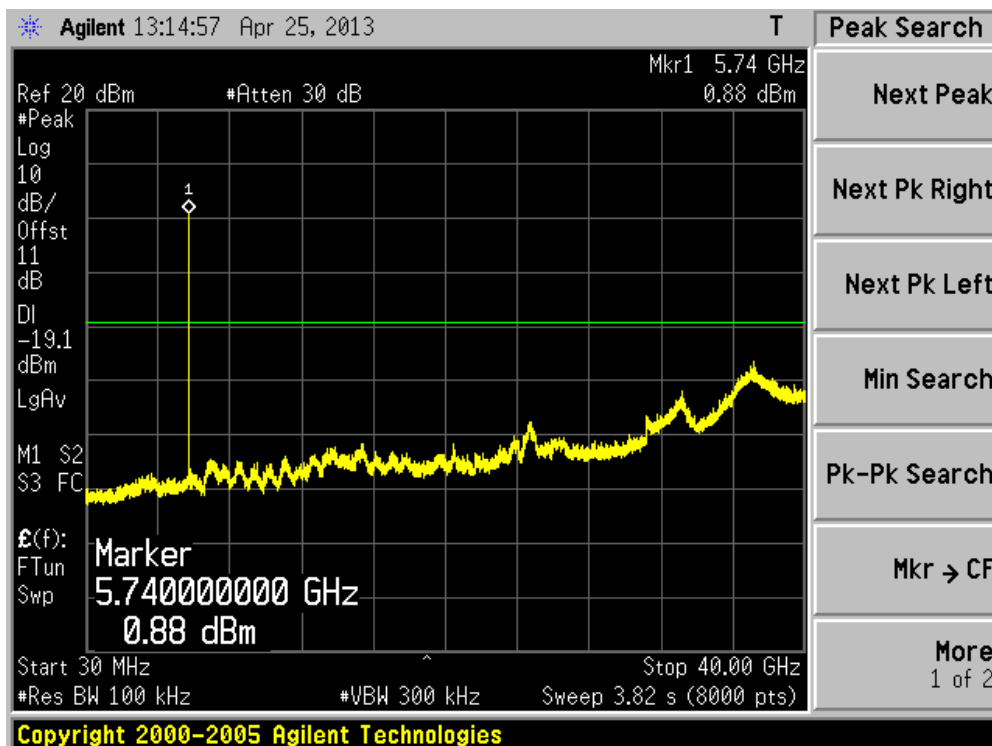
Channel 06 (2437MHz)



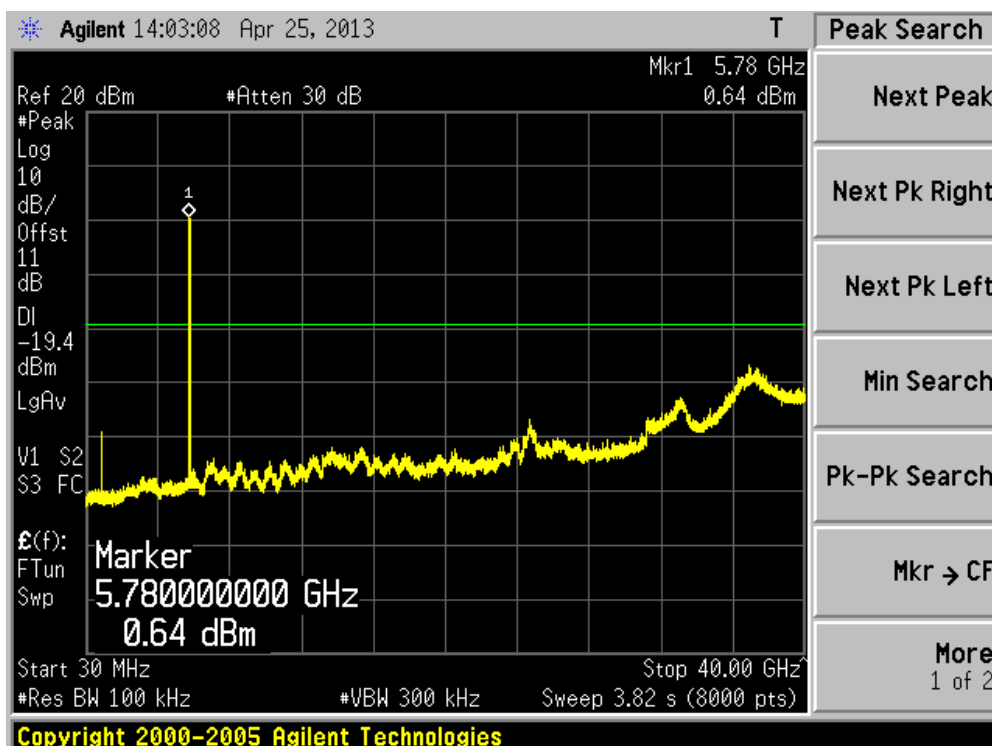
Channel 11 (2462MHz)



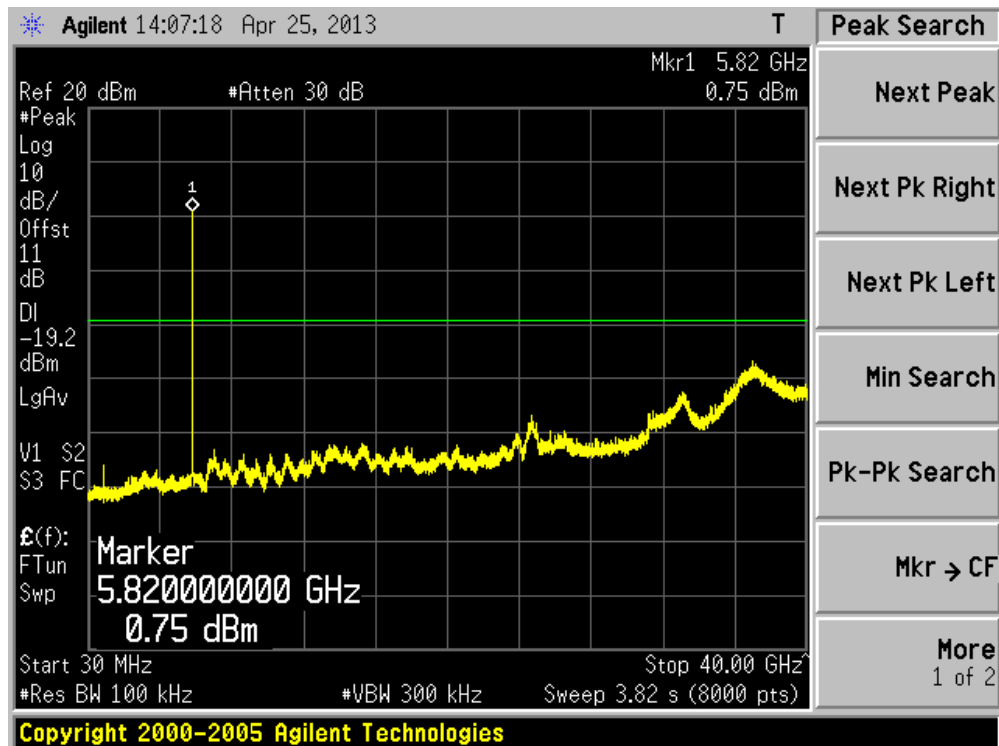
Channel 149 (5745MHz)



Channel 157 (5785MHz)

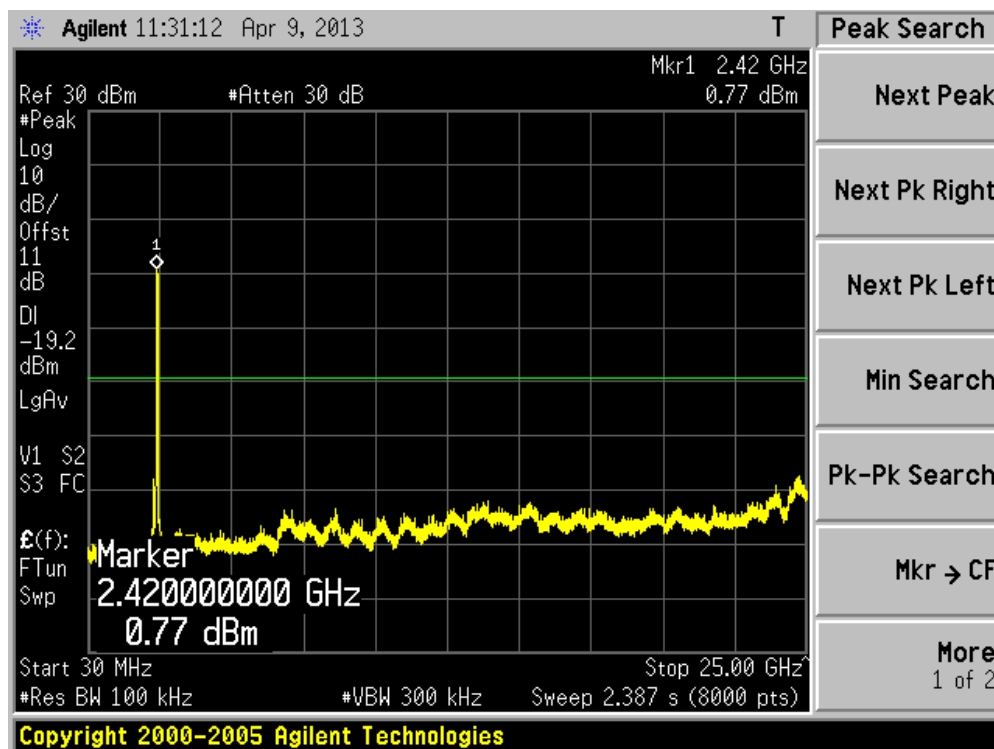


Channel 165 (5825MHz)

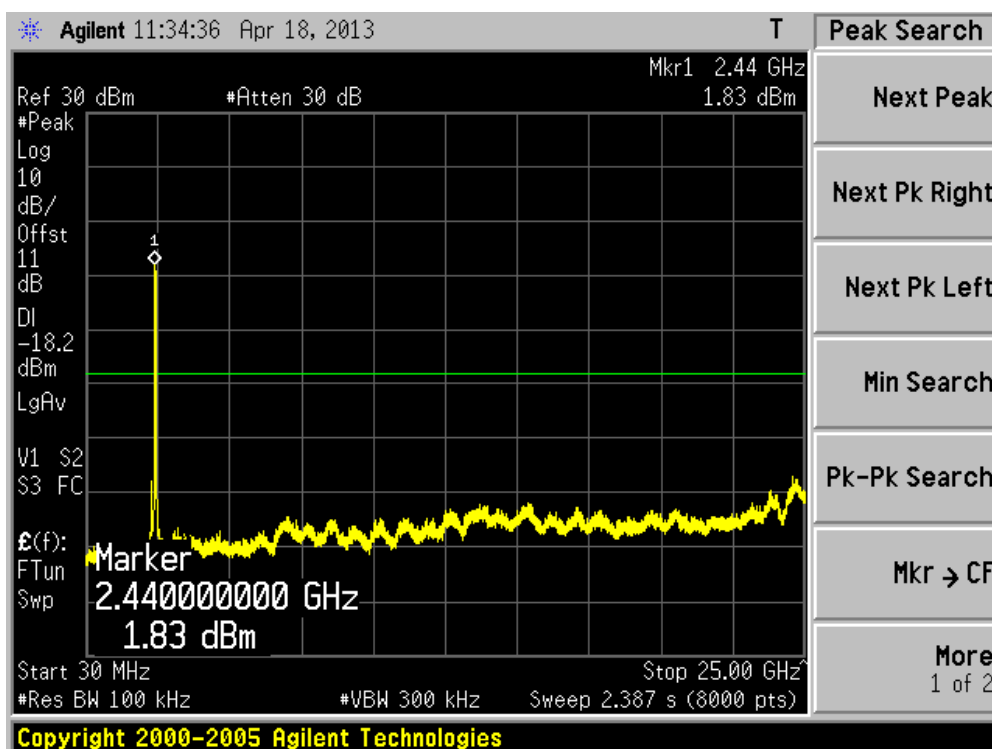


Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	TR-8
Test Mode	:	Mode 5: Transmit by 802.11n (40MHz) (Chain 0)

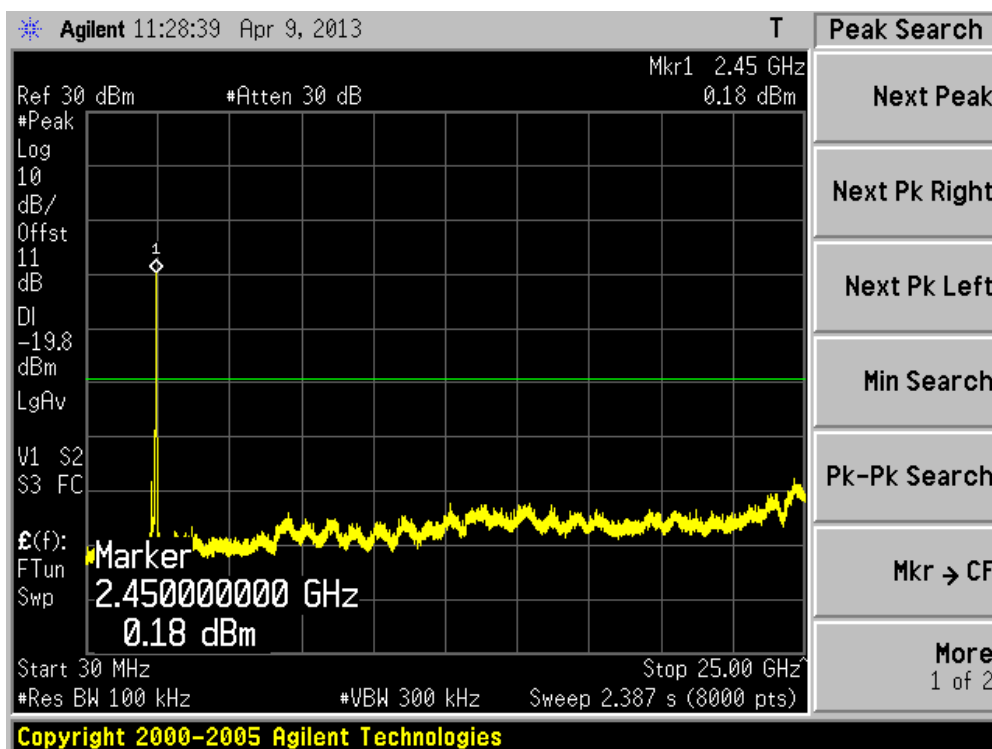
Channel 03 (2422MHz)



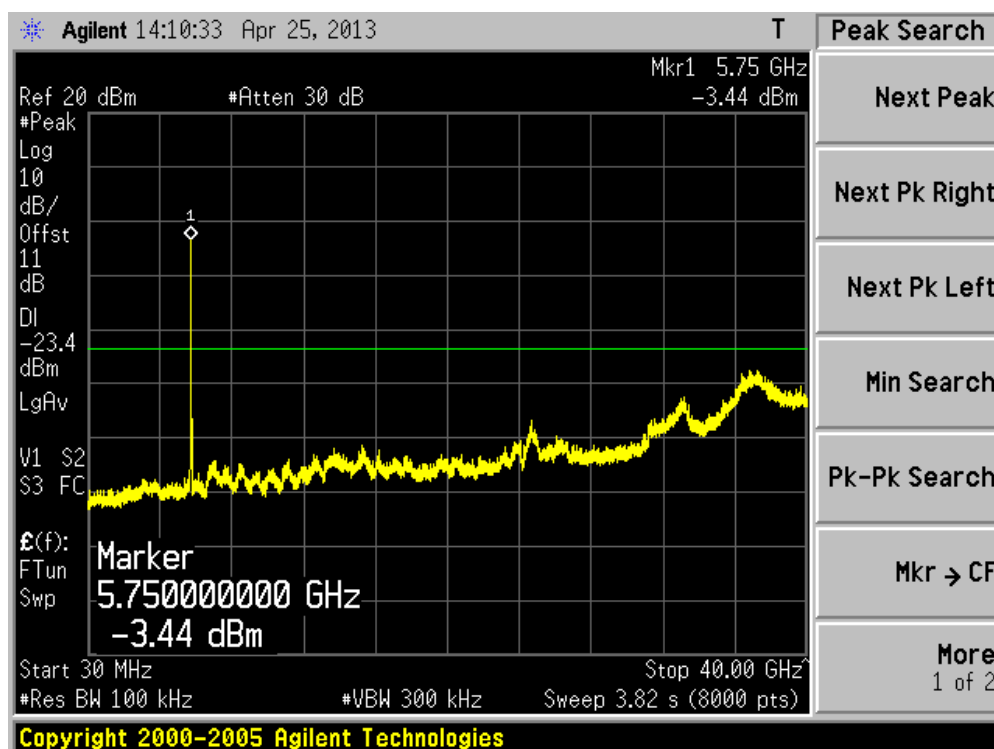
Channel 06 (2437MHz)



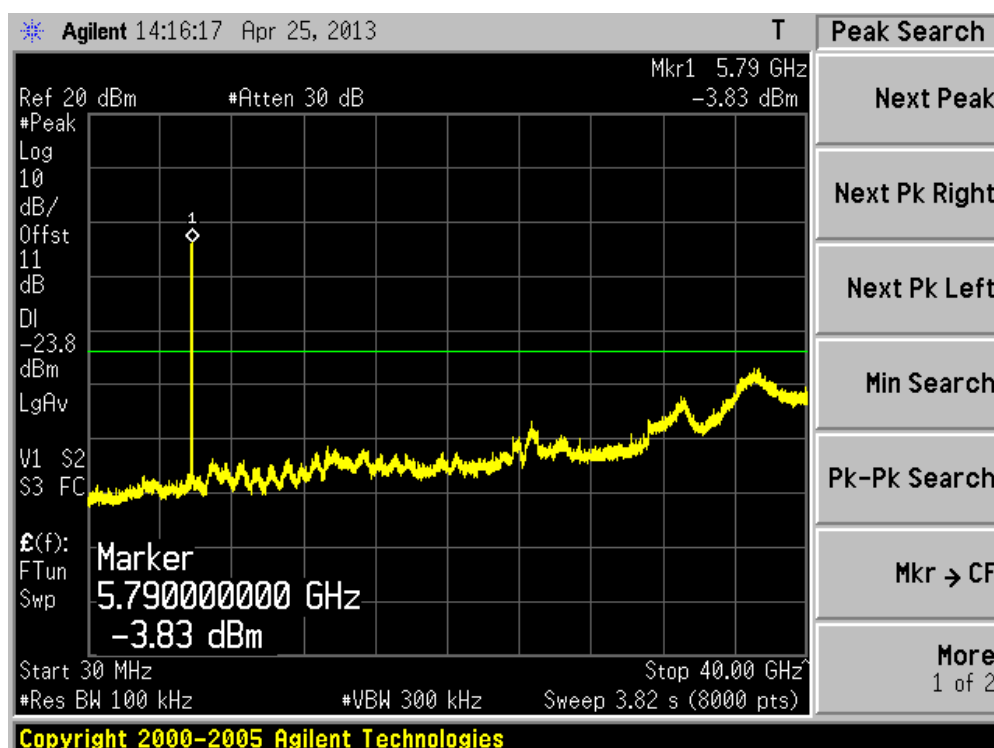
Channel 09 (2452MHz)



Channel 151 (5755MHz)

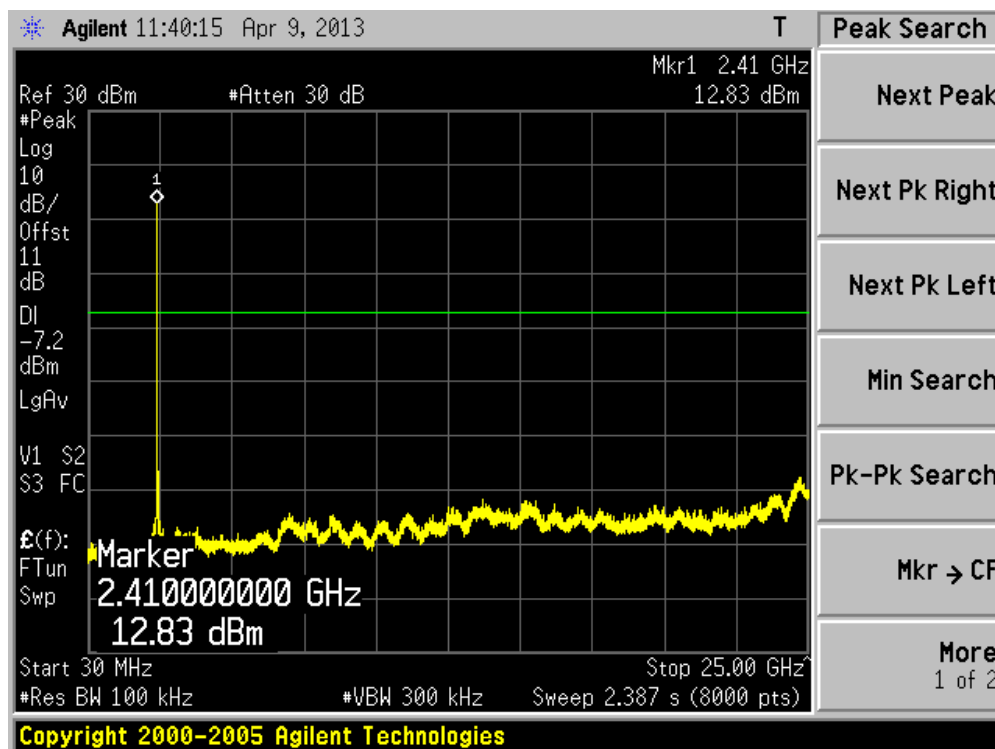


Channel 159 (5795MHz)

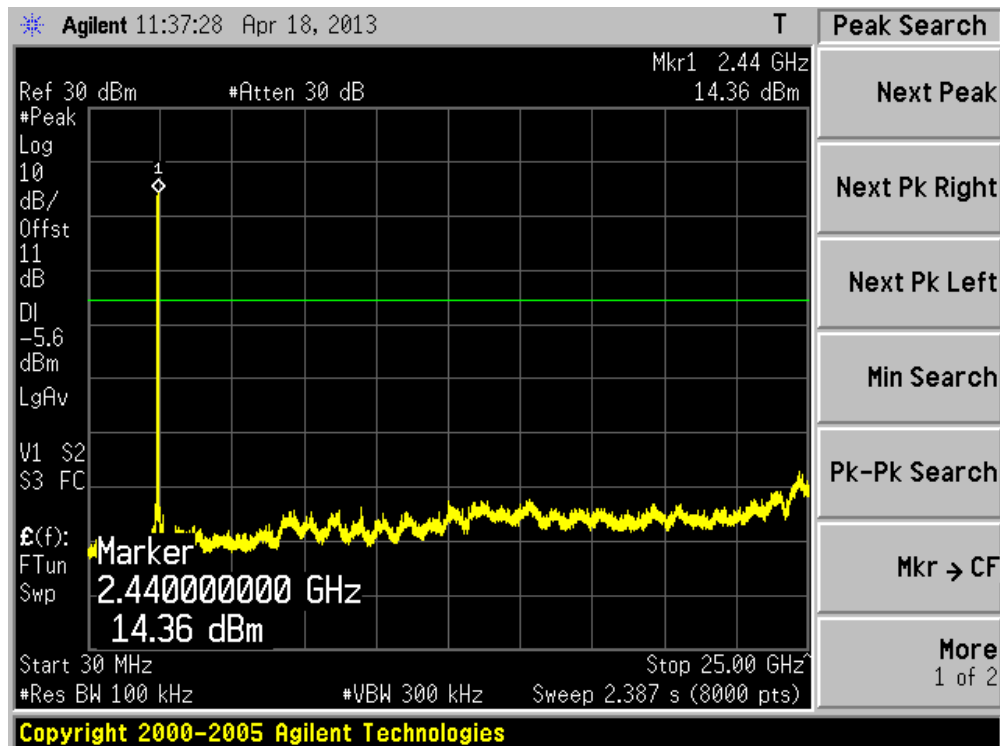


Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 1)

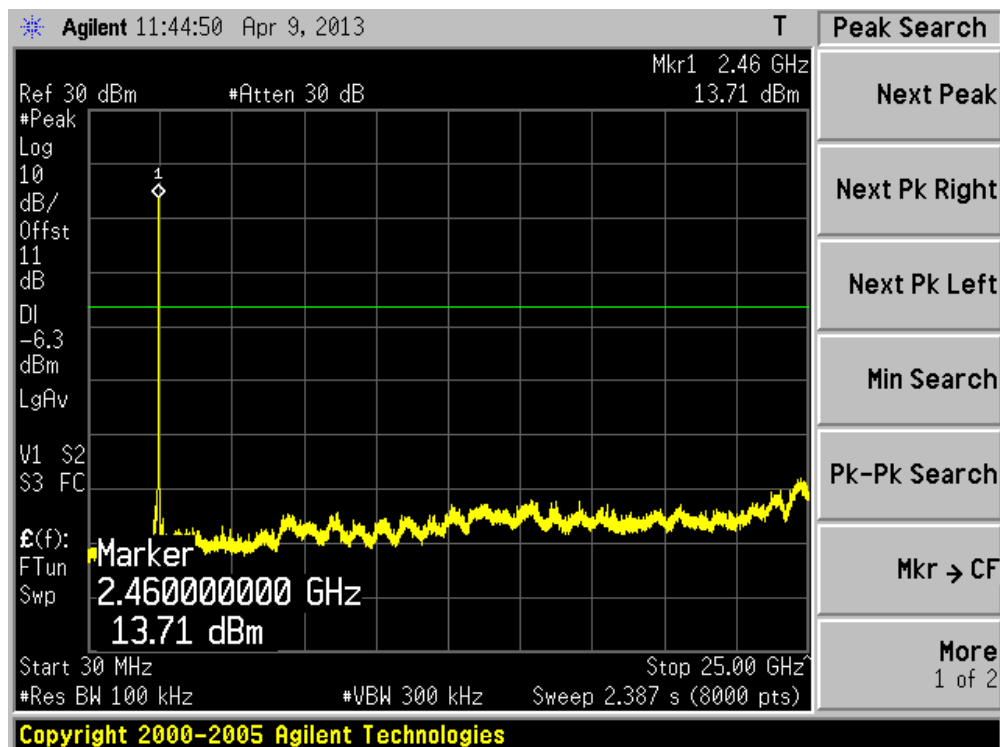
Channel 01 (2412MHz)



Channel 06 (2437MHz)

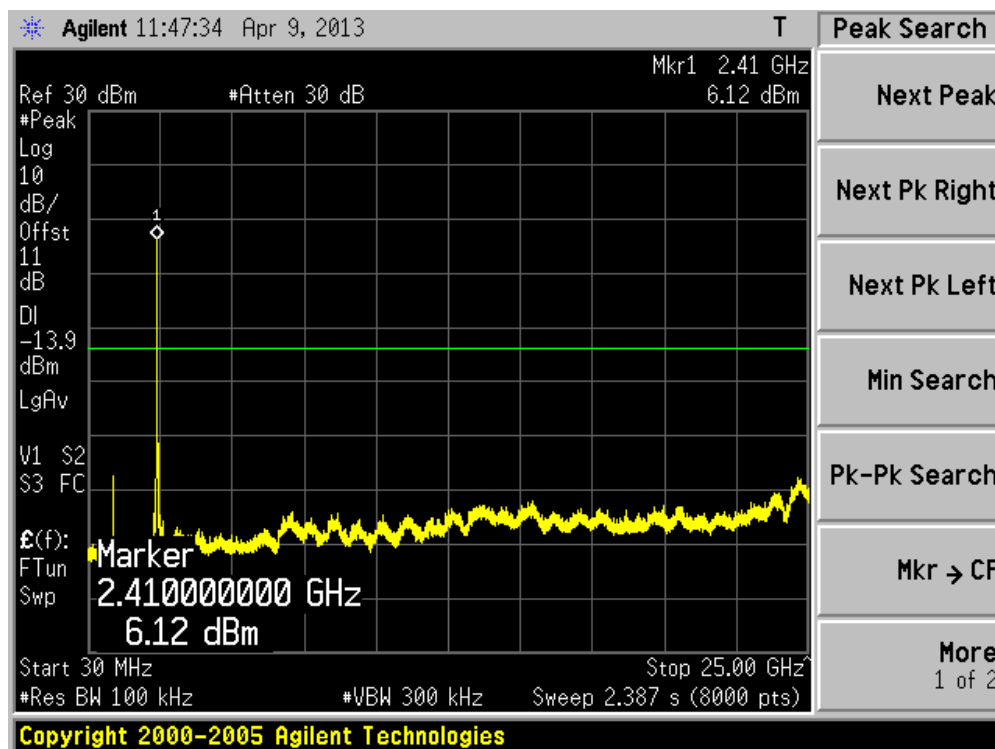


Channel 11 (2462MHz)

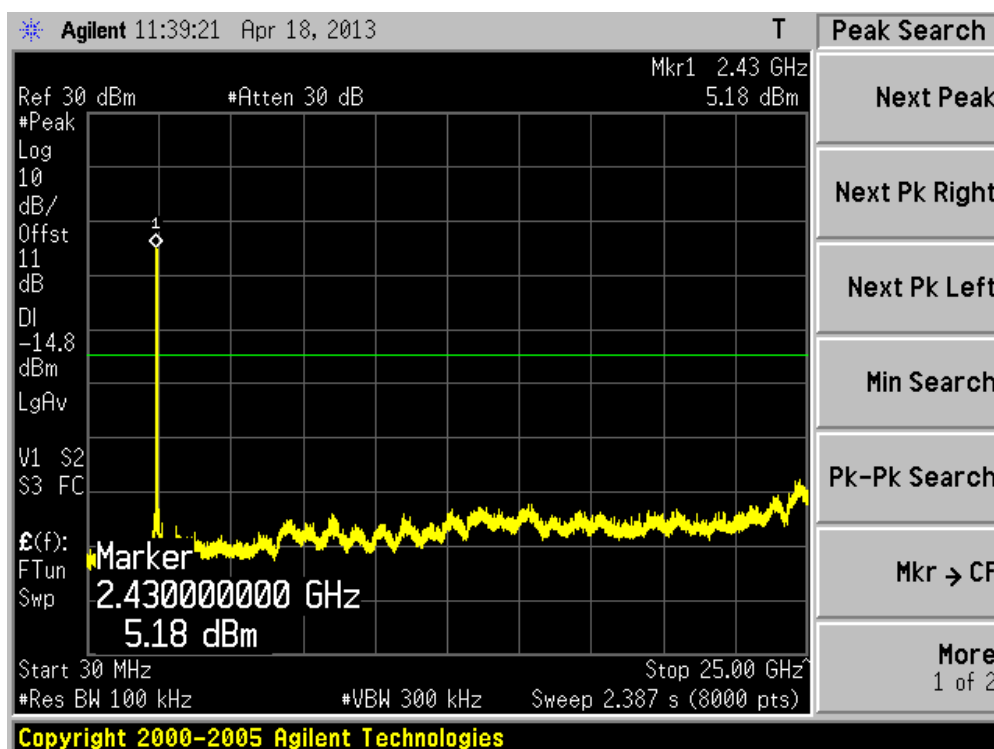


Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 1)

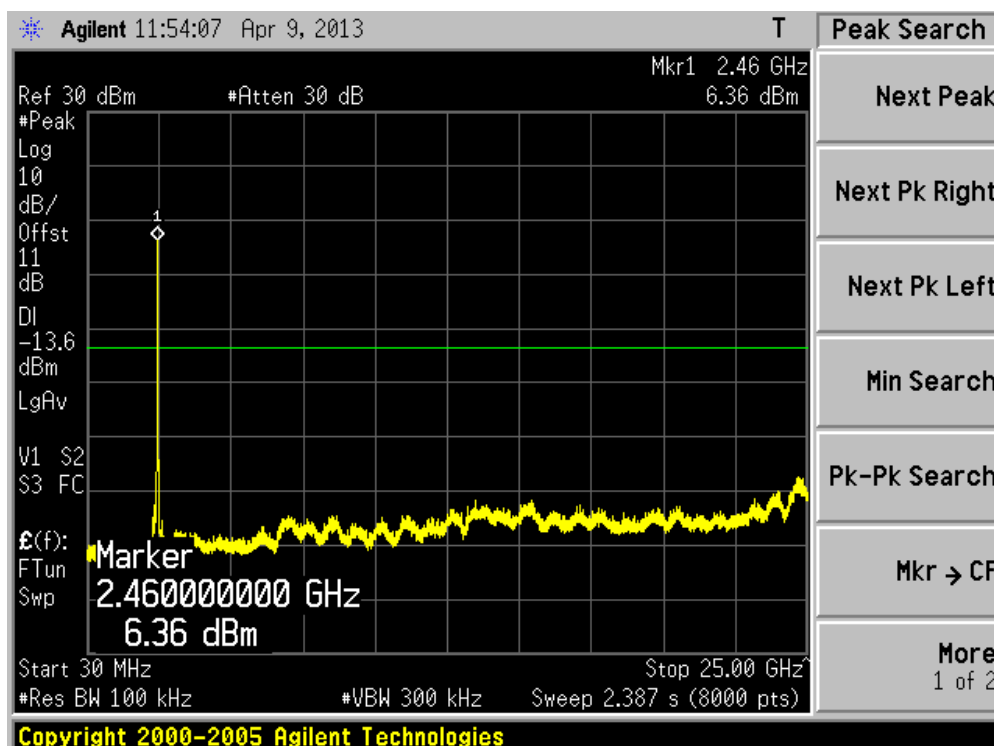
Channel 01 (2412MHz)



Channel 06 (2437MHz)

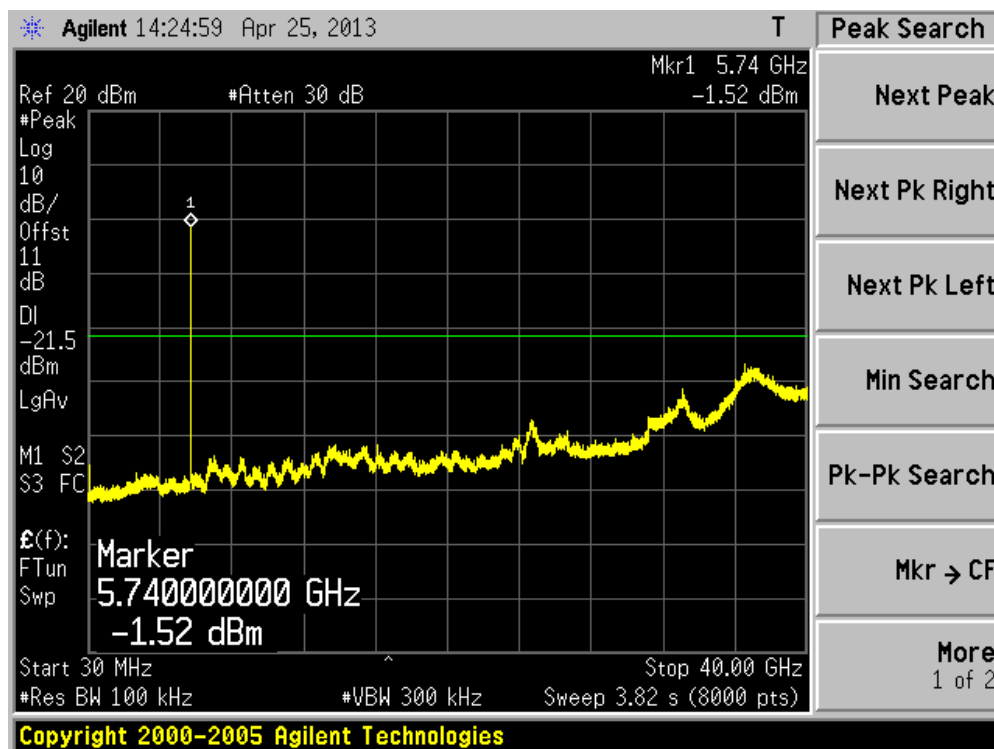


Channel 11 (2462MHz)

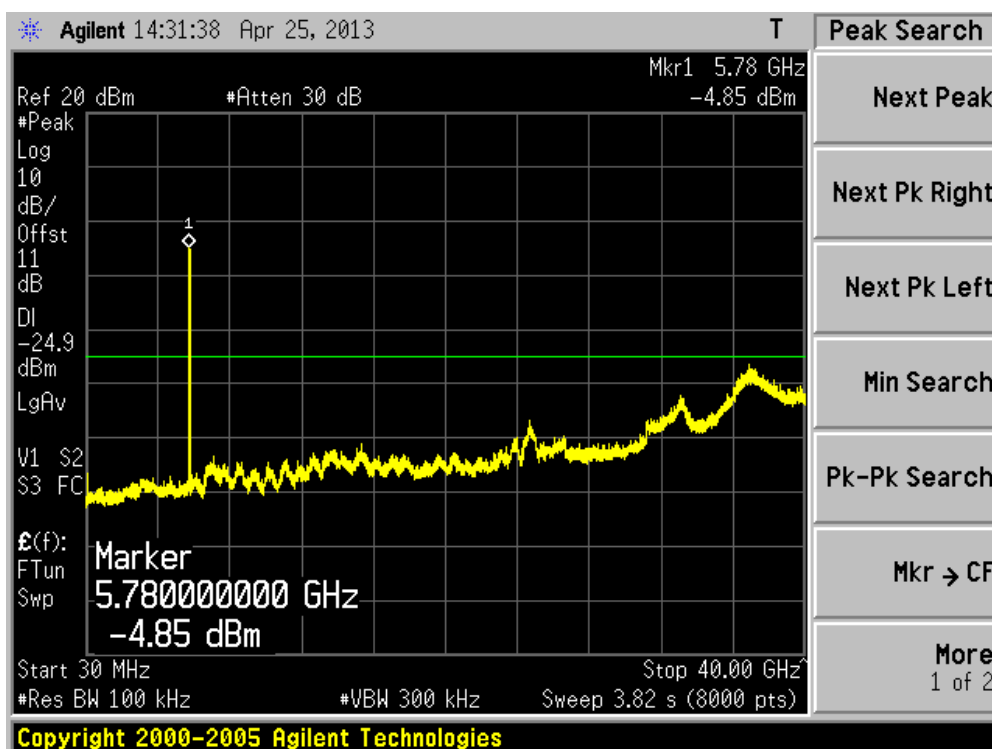


Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11a (Chain 1)

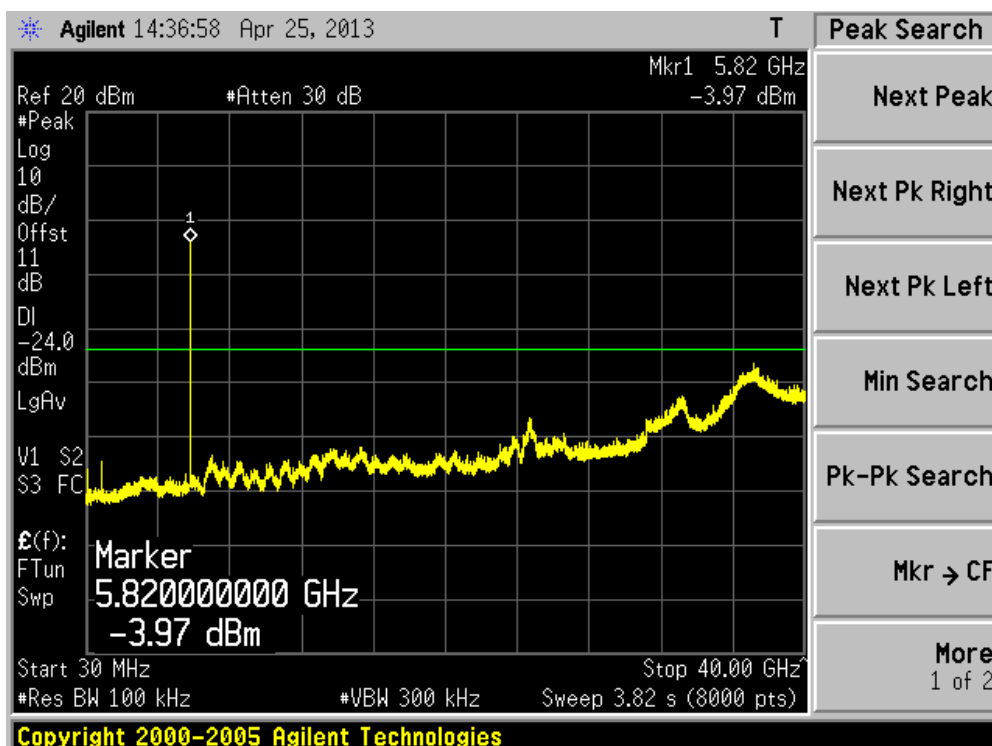
Channel 149 (5745MHz)



Channel 157 (5785MHz)

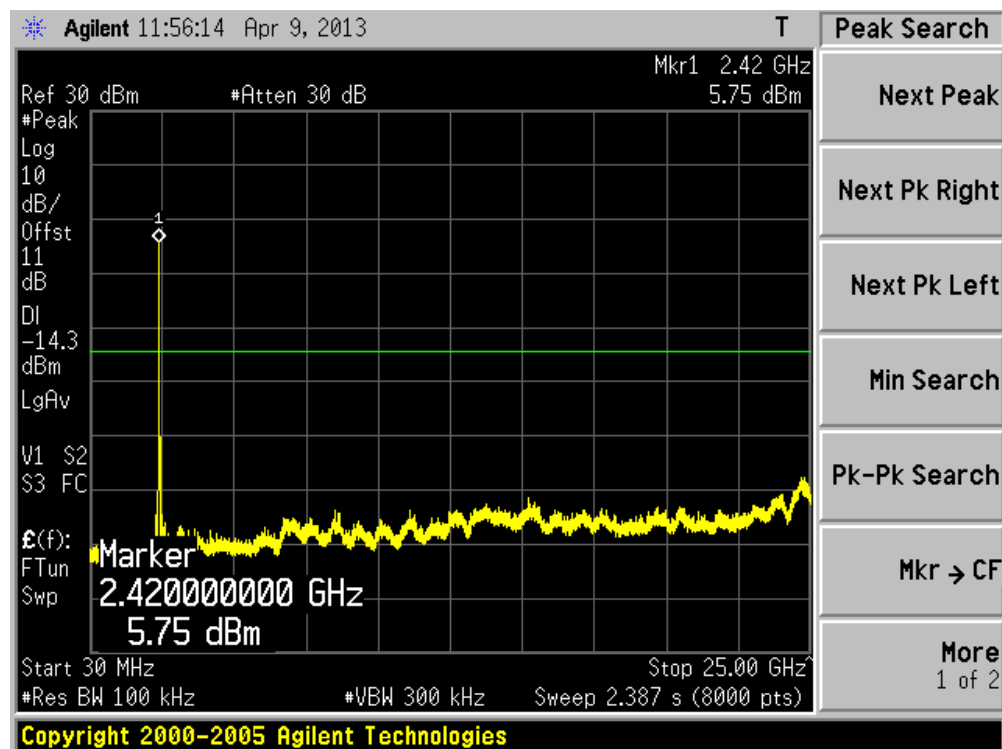


Channel 165 (5825MHz)

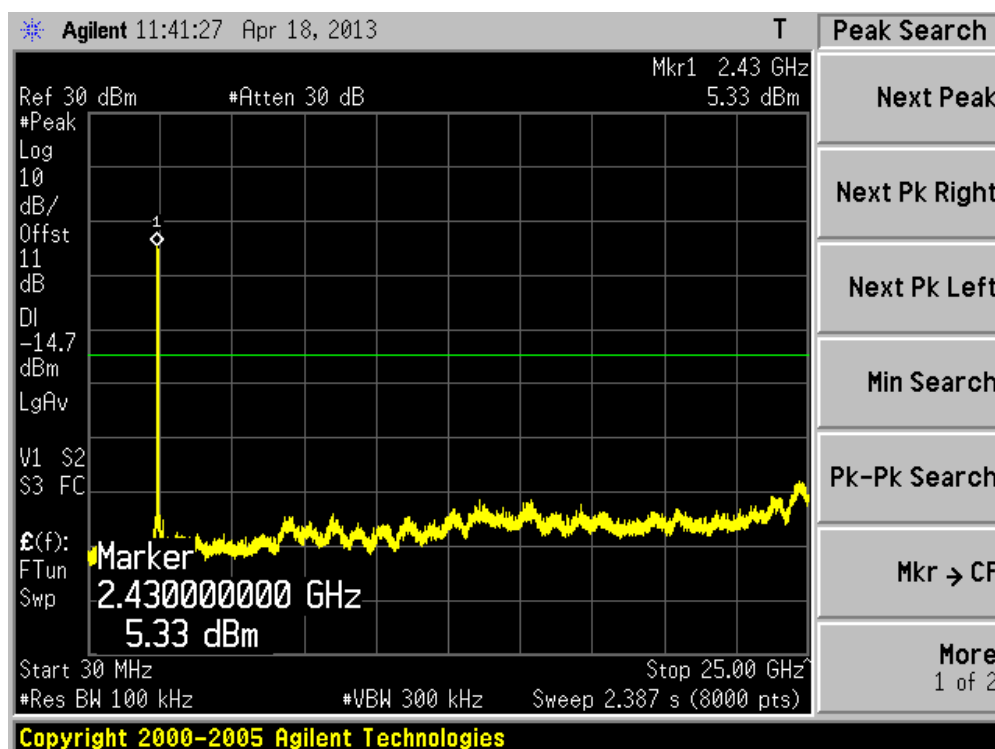


Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n (20MHz) (Chain 1)

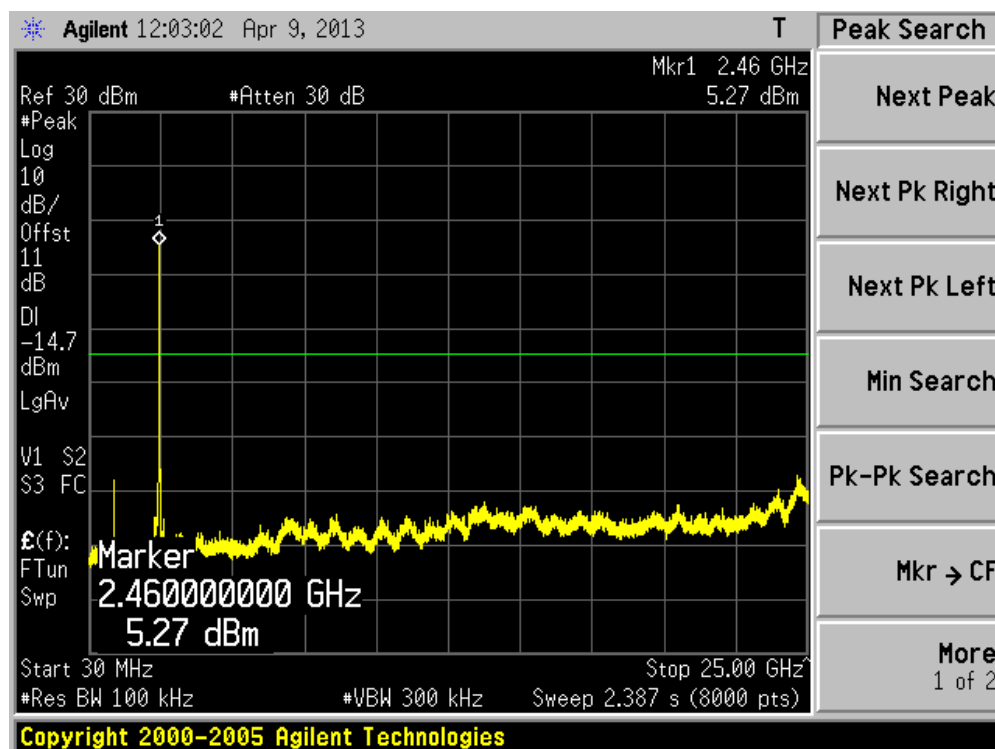
Channel 01 (2412MHz)



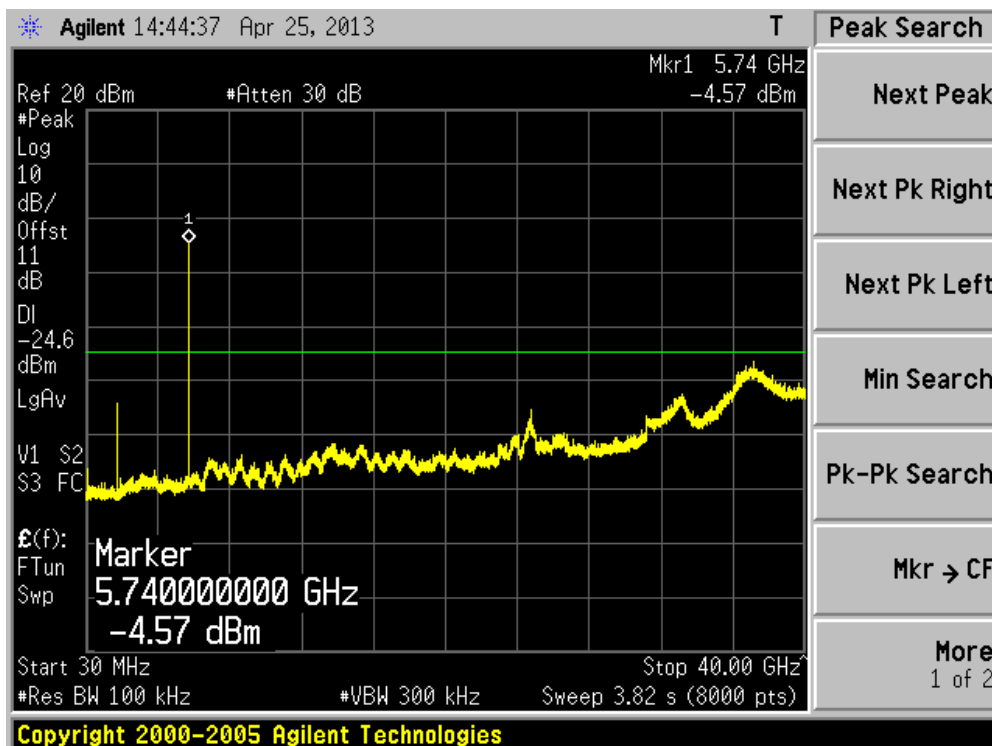
Channel 06 (2437MHz)



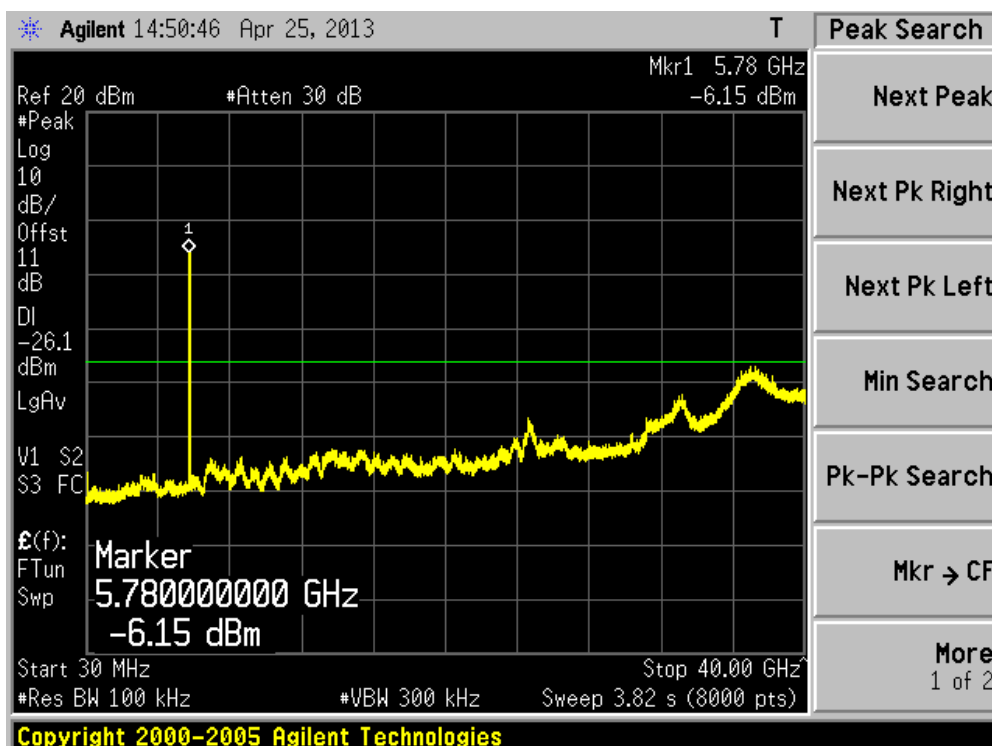
Channel 11 (2462MHz)



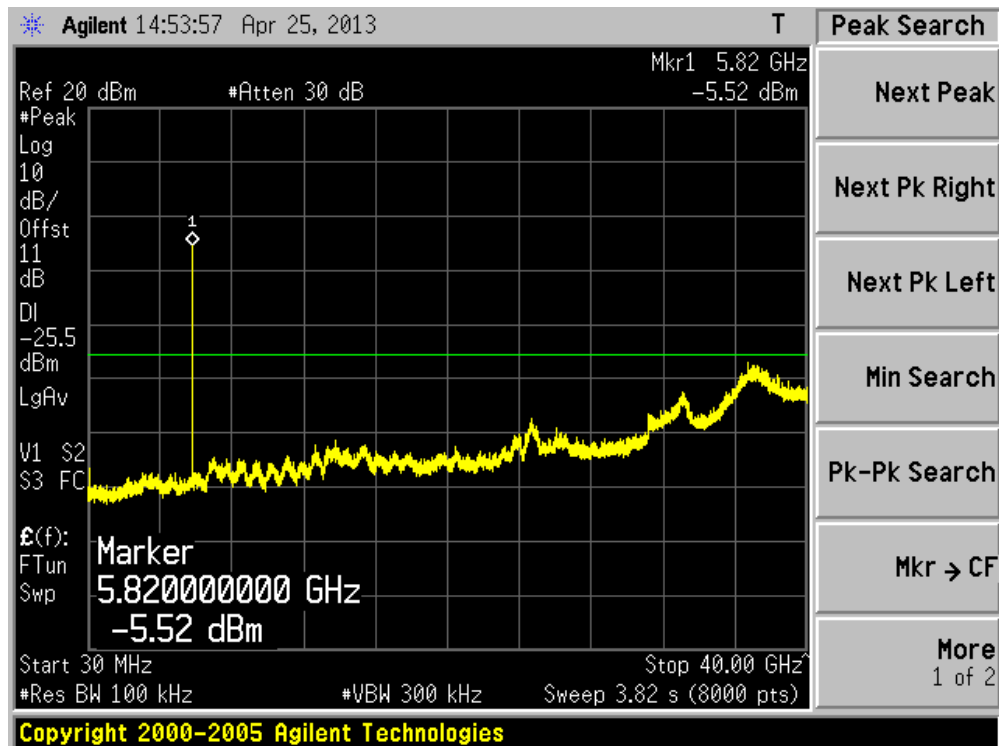
Channel 149 (5745MHz)



Channel 157 (5785MHz)

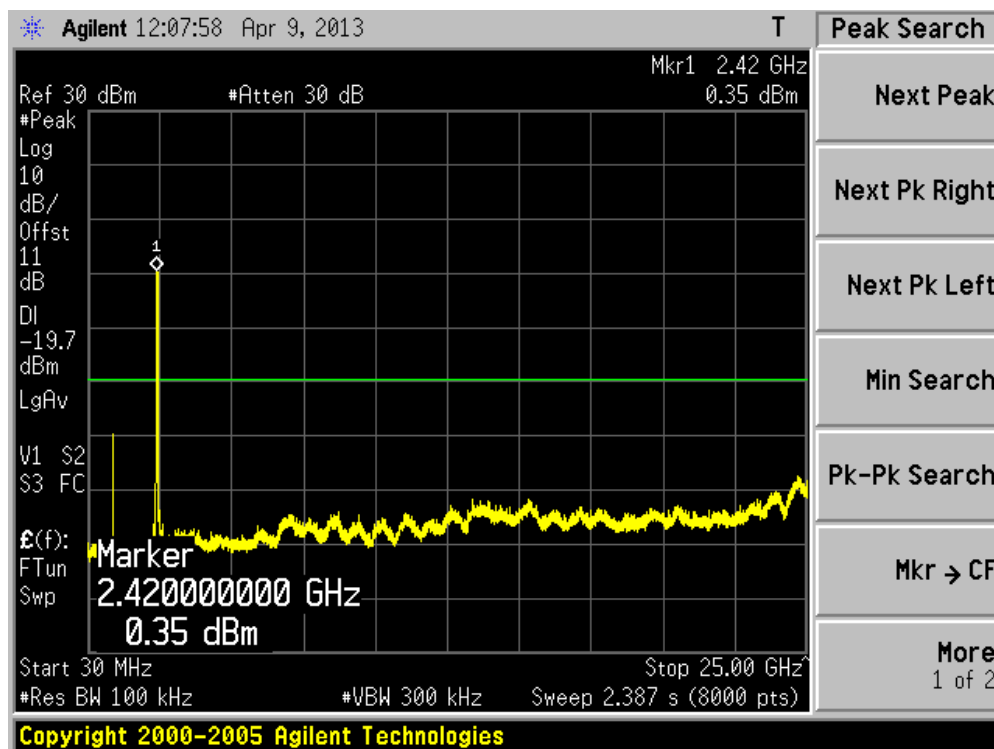


Channel 165 (5825MHz)

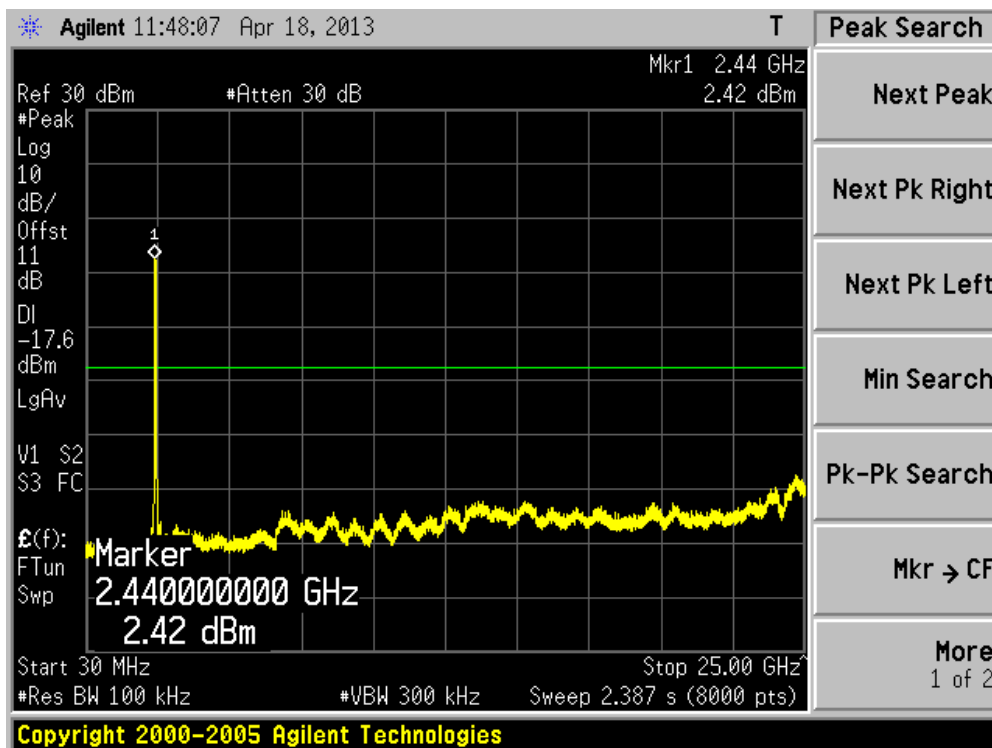


Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	TR-8
Test Mode	:	Mode 5: Transmit by 802.11n (40MHz) (Chain 1)

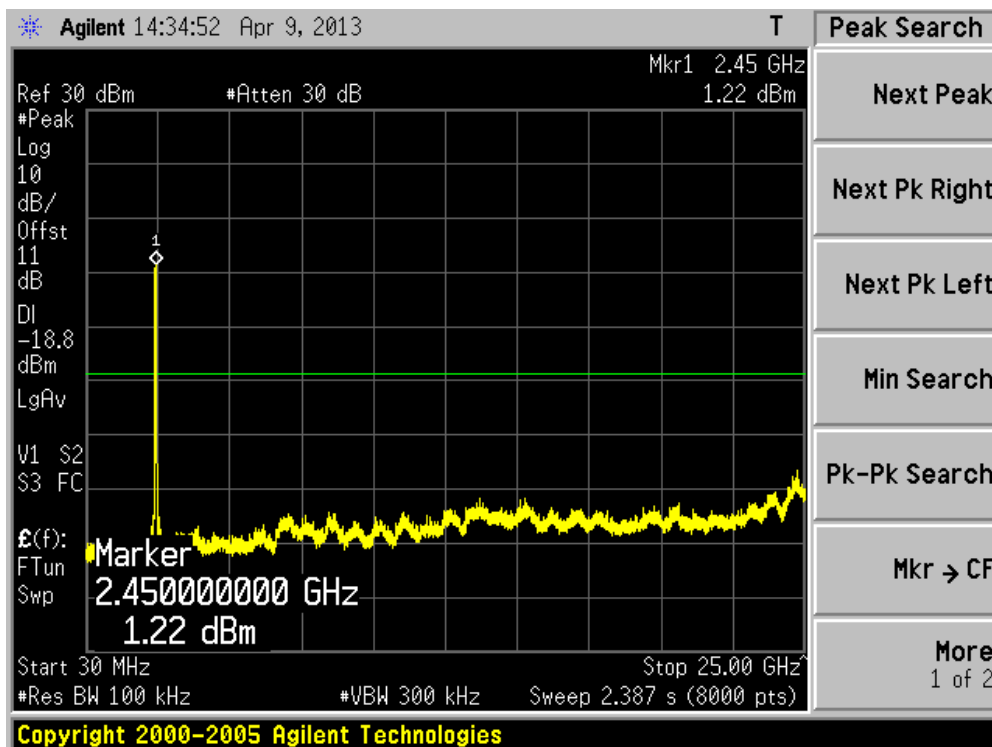
Channel 03 (2422MHz)



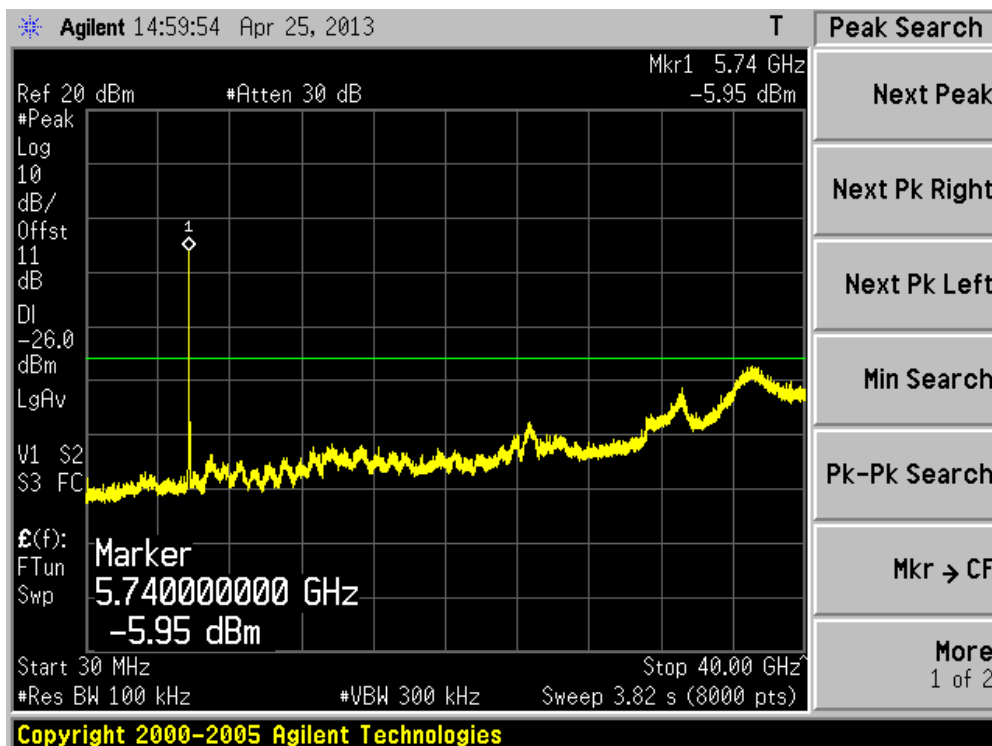
Channel 06 (2437MHz)



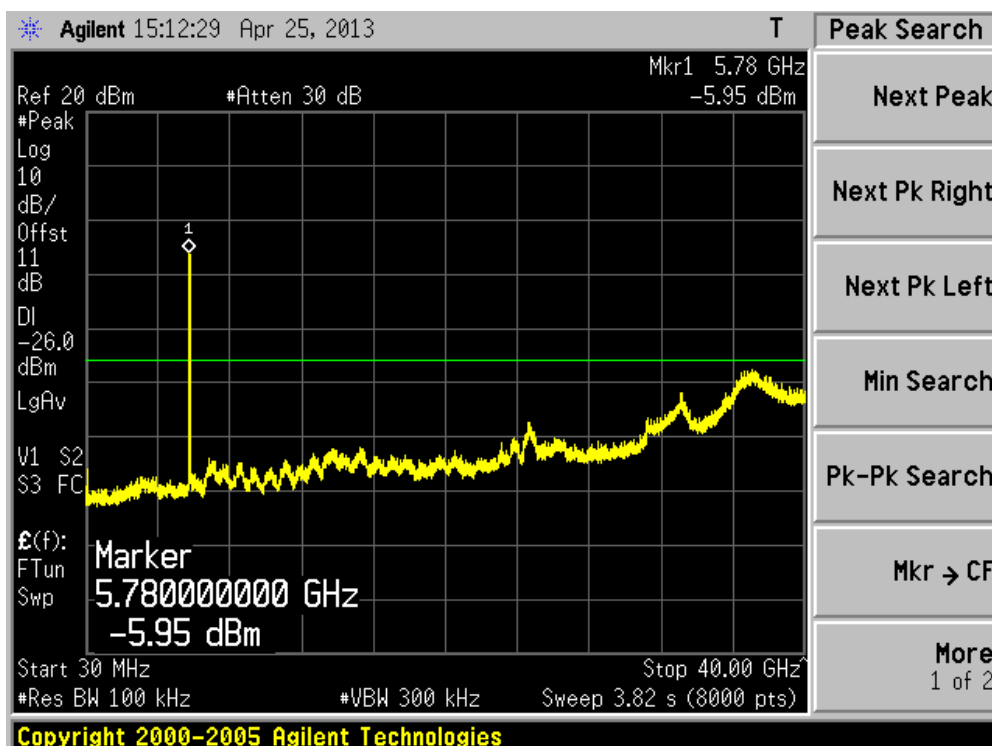
Channel 09 (2452MHz)



Channel 151 (5755MHz)



Channel 159 (5795MHz)



6. Radiated Emission Band Edge

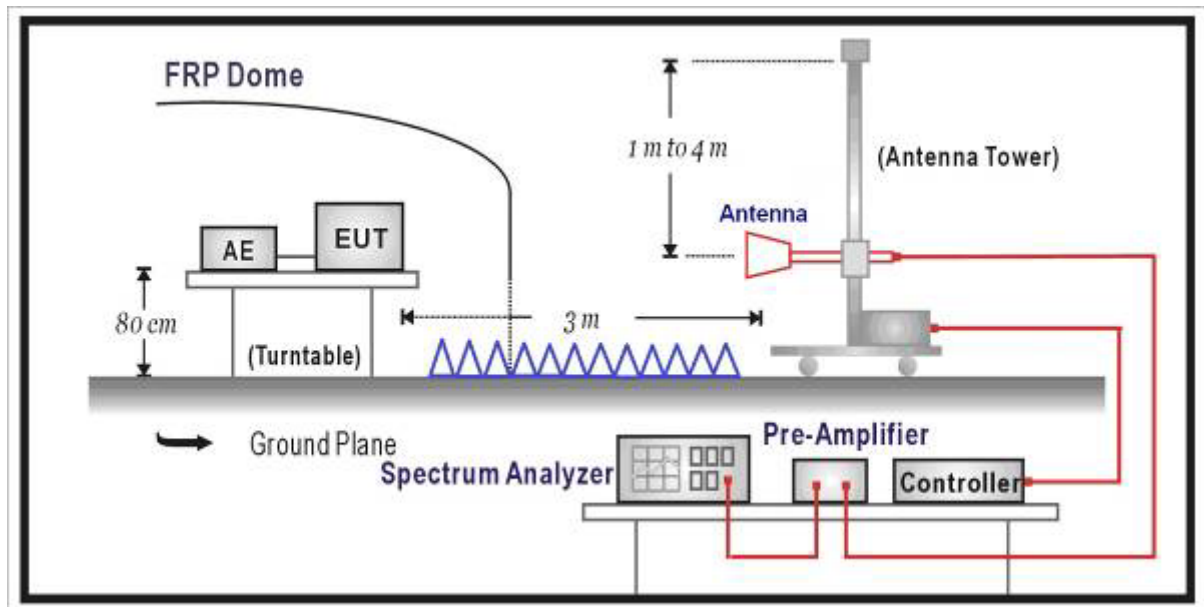
6.1. Test Equipment

☒ Radiated Emission Band Edge / AC-5

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2014.03.30
Preamplifier	Miteq	NSP1800-25	1364185	2014.05.04
Preamplifier	Quietek	AP-040G	CHM-0906001	2014.05.04
Bilog Antenna	Teseq GmbH	CBL6112D	27612	2013.10.15
DRG Horn	ETS-Lindgren	3117	00123988	2014.01.21
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2014.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2014.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2014.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2013.06.11
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2014.01.11

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

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, 2009 and tested according to KDB 558074 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.

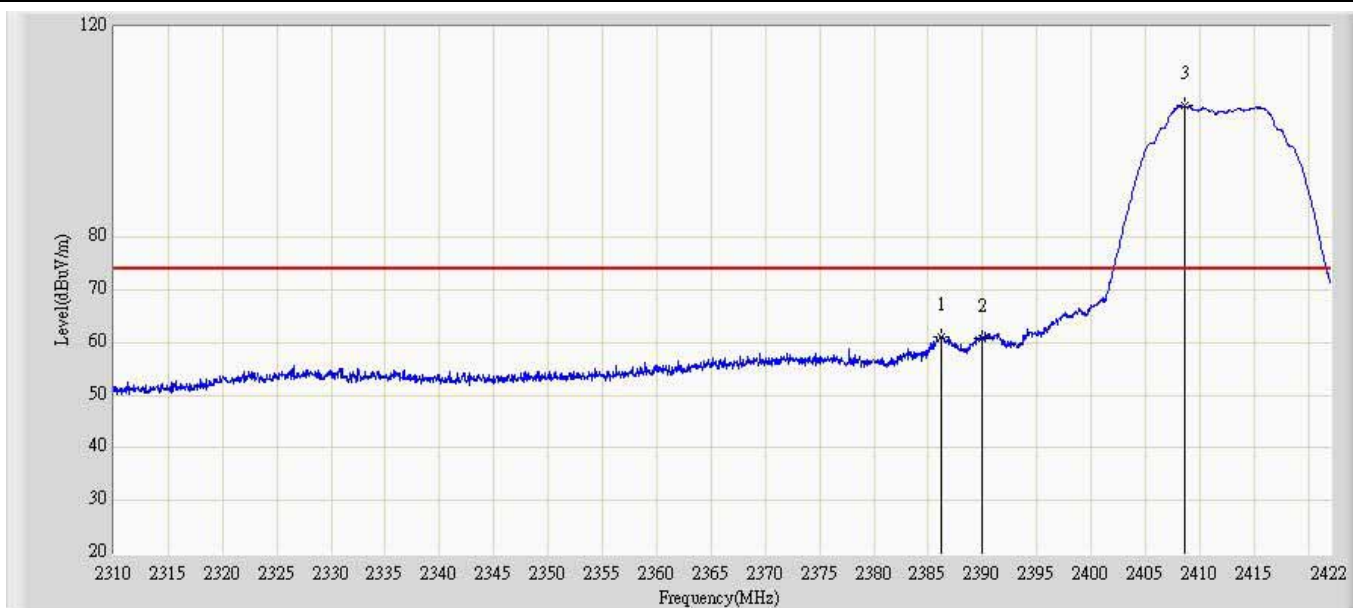
The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4: 2009 on radiated measurement.

6.5. Uncertainty

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

6.6. Test Result

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 09:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 2412MHz by 802.11b Chain 0	



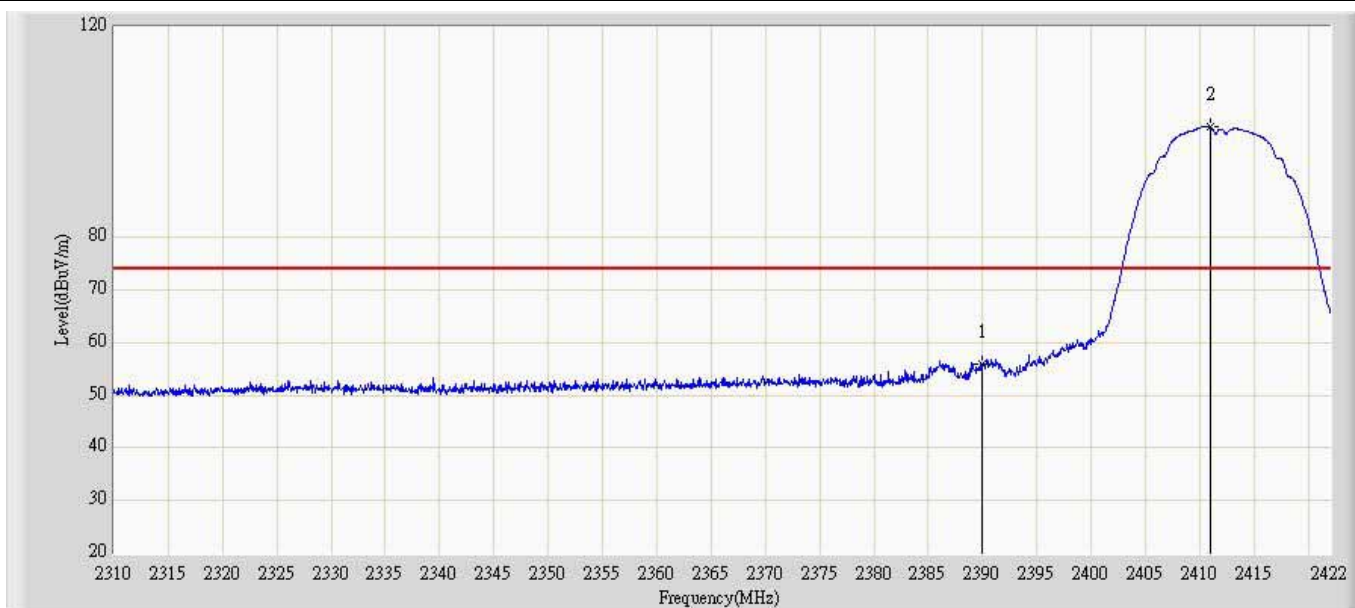
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2386.160	61.195	25.570	-12.805	74.000	35.625	PK
2			2390.000	60.912	25.271	-13.088	74.000	35.642	PK
3		*	2408.616	105.061	69.341	N/A	N/A	35.720	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 10:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 2412MHz by 802.11b Chain 0	



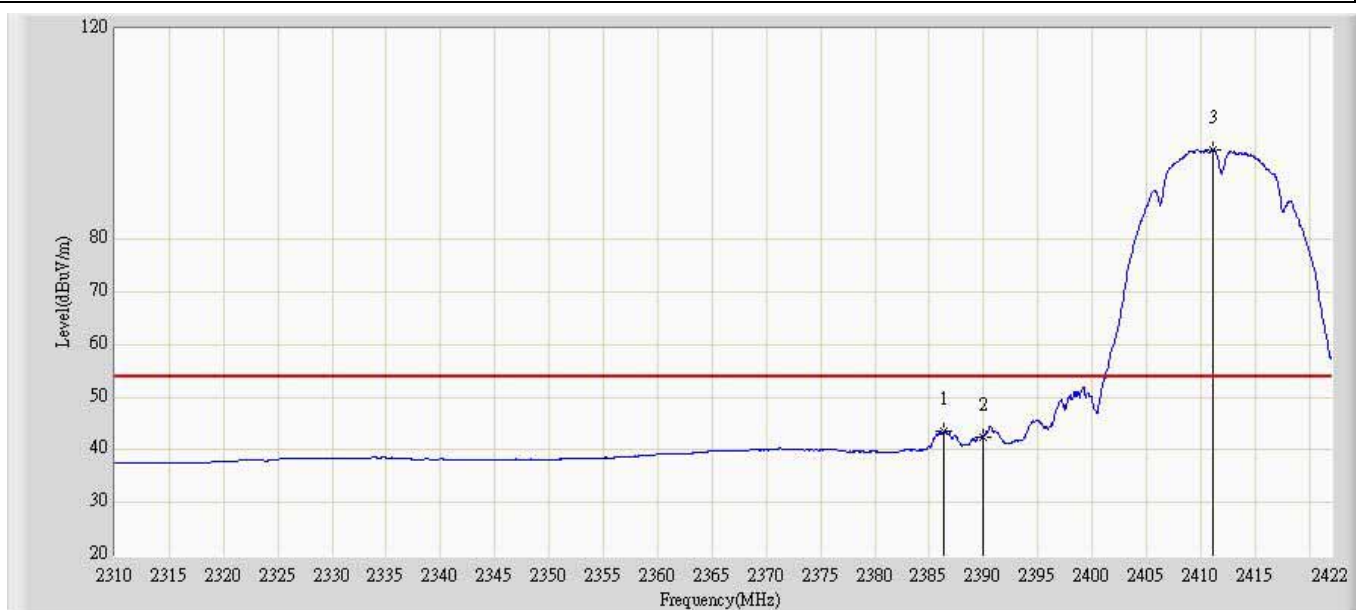
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2386.608	50.375	14.748	-3.625	54.000	35.627	AV
2			2390.000	49.672	14.031	-4.328	54.000	35.642	AV
3		*	2409.232	100.936	65.213	N/A	N/A	35.723	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 10:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 2412MHz by 802.11b Chain 0	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	55.882	19.581	-18.118	74.000	36.302	PK
2		*	2410.968	101.000	64.526	N/A	N/A	36.474	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 10:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 2412MHz by 802.11b Chain 0	



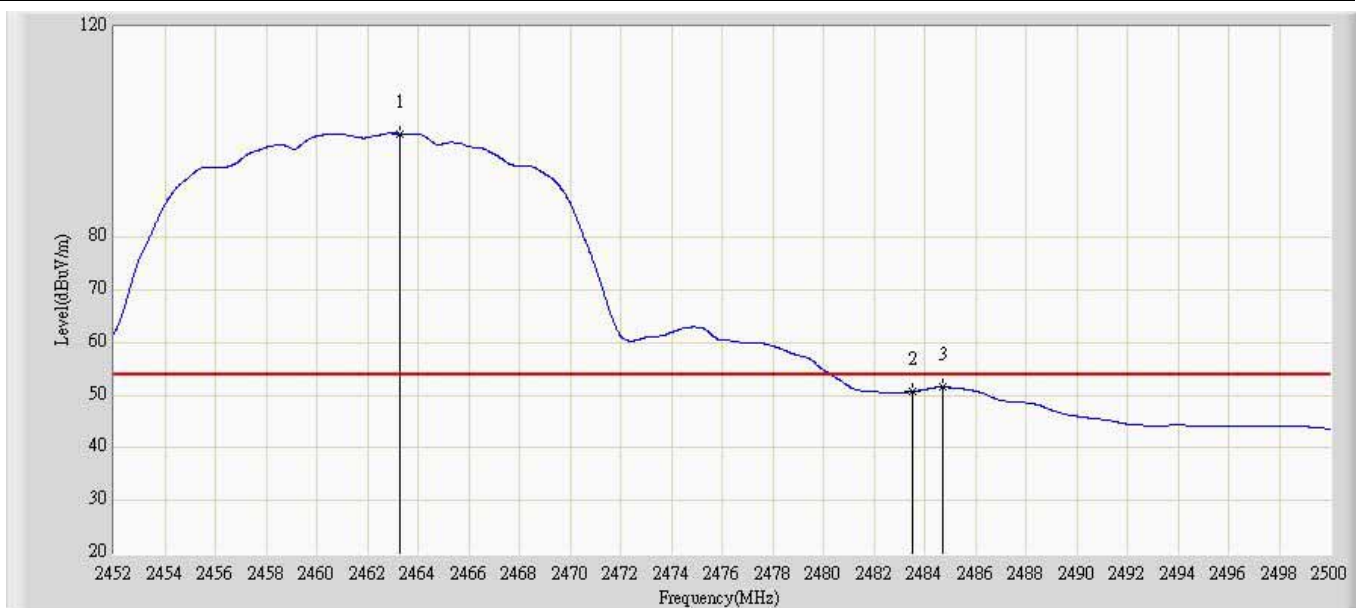
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2386.384	43.574	7.302	-10.426	54.000	36.272	AV
2			2390.000	42.502	6.201	-11.498	54.000	36.302	AV
3		*	2411.136	97.086	60.611	N/A	N/A	36.475	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 10:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 2462MHz by 802.11b Chain 0	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2461.000	107.760	71.802	N/A	N/A	35.958	PK
2			2483.500	62.547	26.491	-11.453	74.000	36.055	PK
3			2487.400	63.646	27.571	-10.354	74.000	36.075	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 10:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 2462MHz by 802.11b Chain 0	



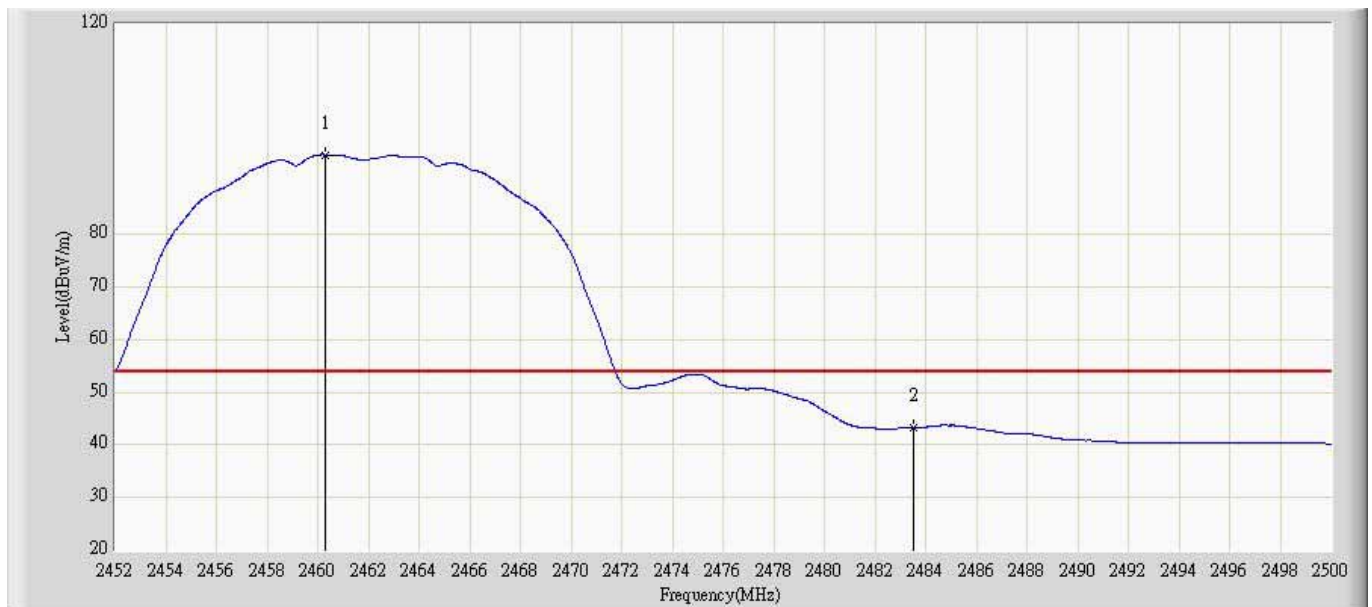
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2463.256	99.675	63.707	N/A	N/A	35.969	AV
2			2483.500	50.666	14.610	-3.334	54.000	36.055	AV
3			2484.736	51.532	15.470	-2.468	54.000	36.062	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 10:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 2462MHz by 802.11b Chain 0	



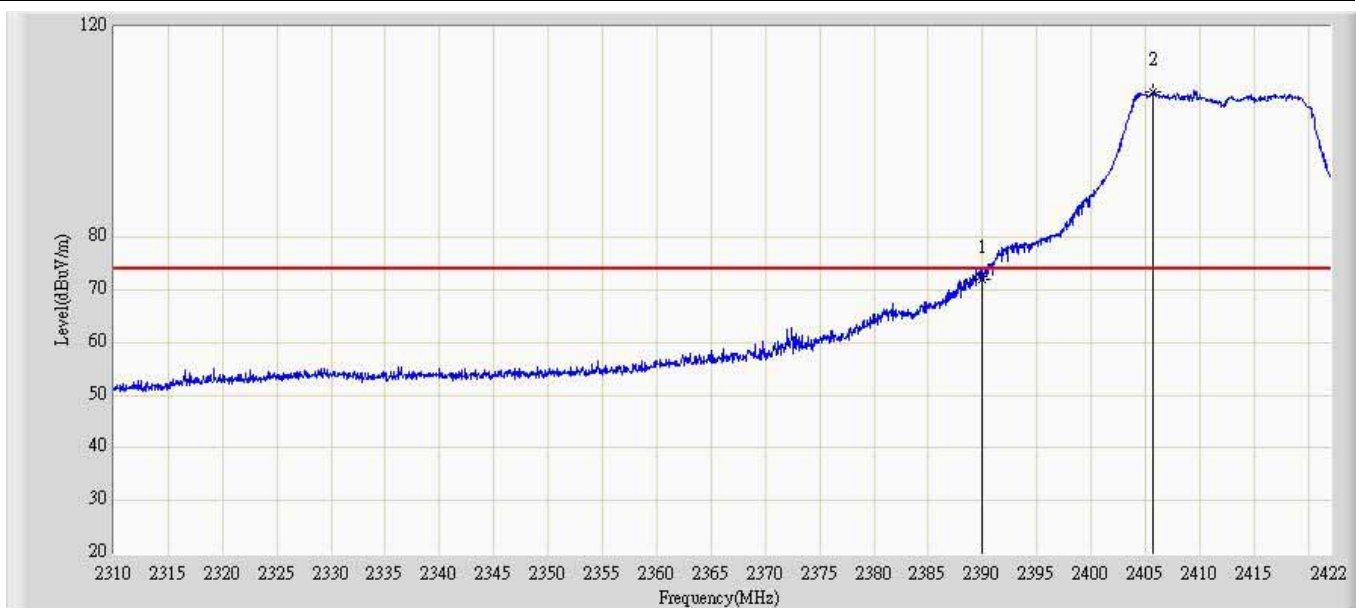
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2459.296	103.561	66.674	N/A	N/A	36.887	PK
2			2483.500	55.900	18.810	-18.100	74.000	37.089	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 10:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 2462MHz by 802.11b Chain 0	



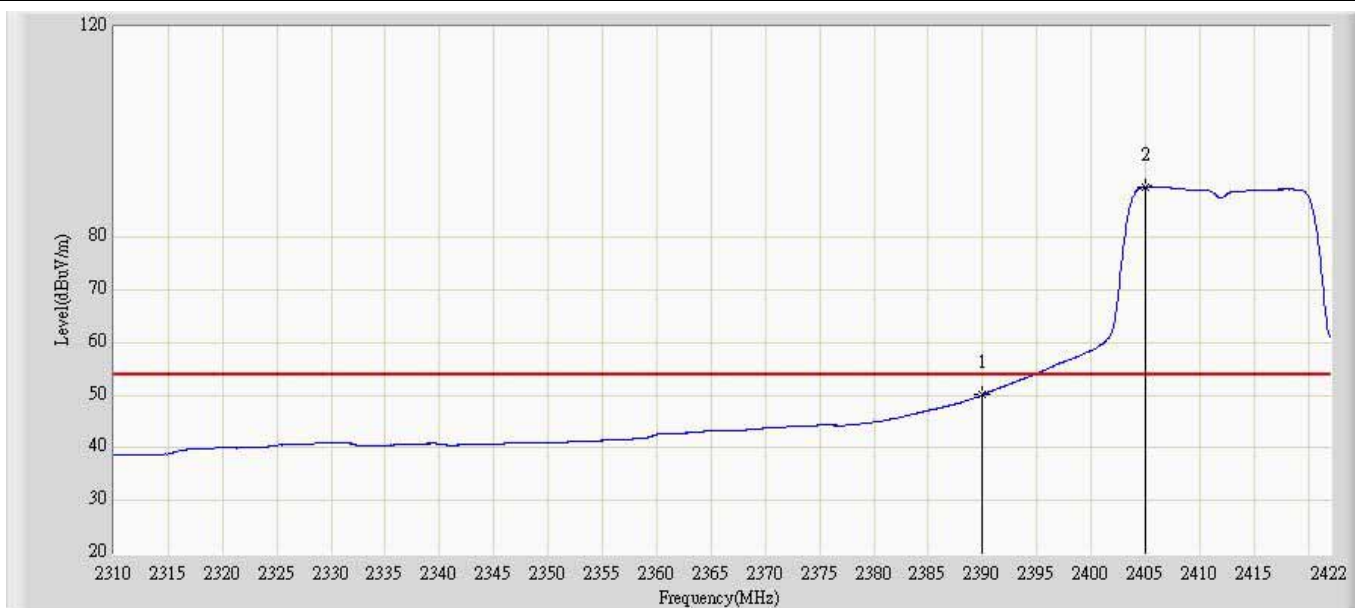
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2460.328	95.072	58.176	N/A	N/A	36.896	AV
2			2483.500	43.243	6.153	-10.757	54.000	37.089	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 10:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 2412MHz by 802.11g Chain 0	



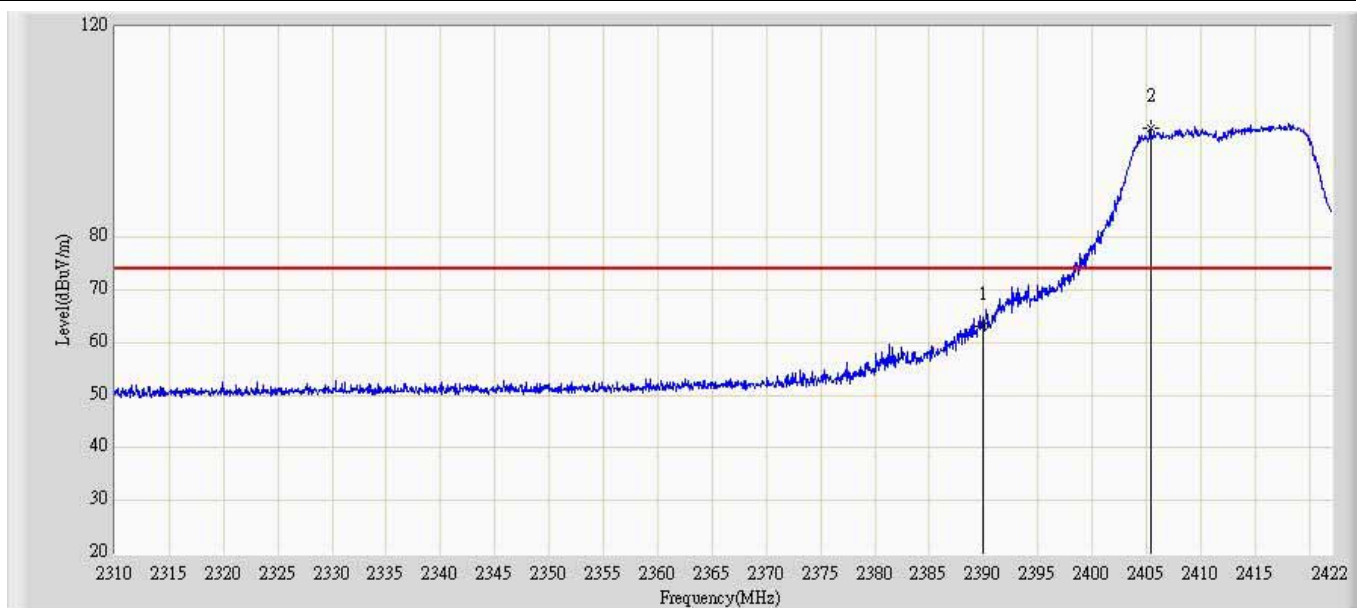
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	71.991	36.350	-2.009	74.000	35.642	PK
2		*	2405.704	107.758	72.050	N/A	N/A	35.708	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 10:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 2412MHz by 802.11g Chain 0	



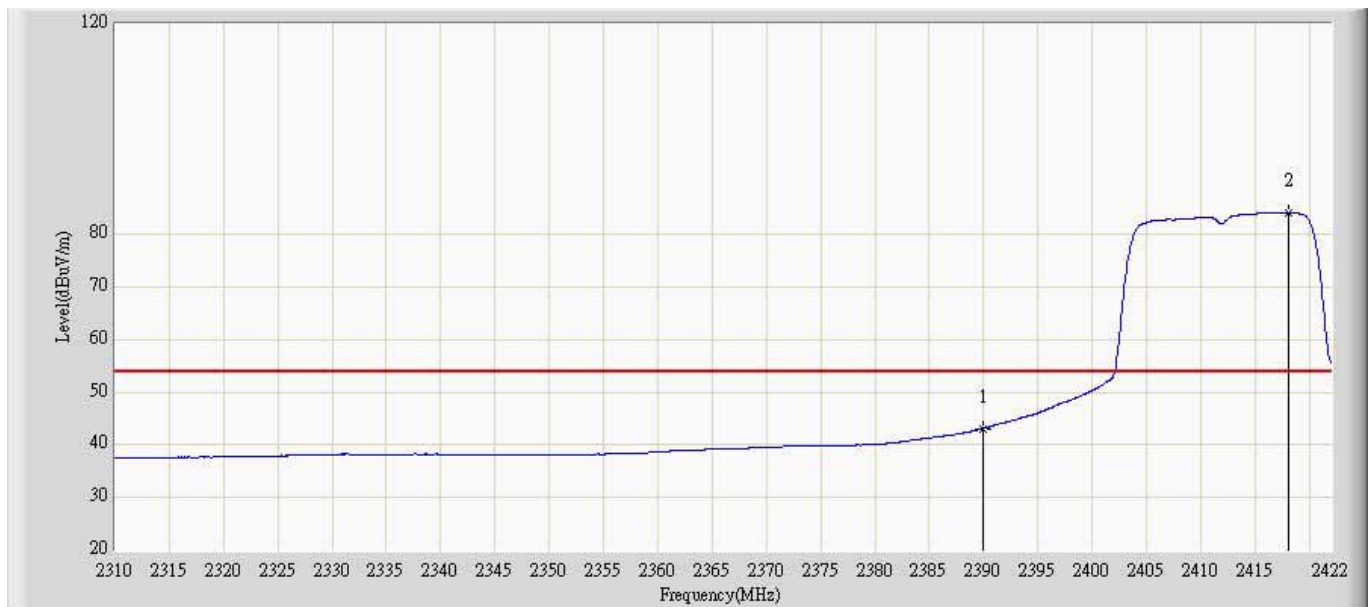
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	50.106	14.465	-3.894	54.000	35.642	AV
2		*	2405.032	89.623	53.918	N/A	N/A	35.704	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 10:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 2412MHz by 802.11g Chain 0	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	62.987	26.686	-11.013	74.000	36.302	PK
2		*	2405.368	100.751	64.323	N/A	N/A	36.428	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 11:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 2412MHz by 802.11g Chain 0	



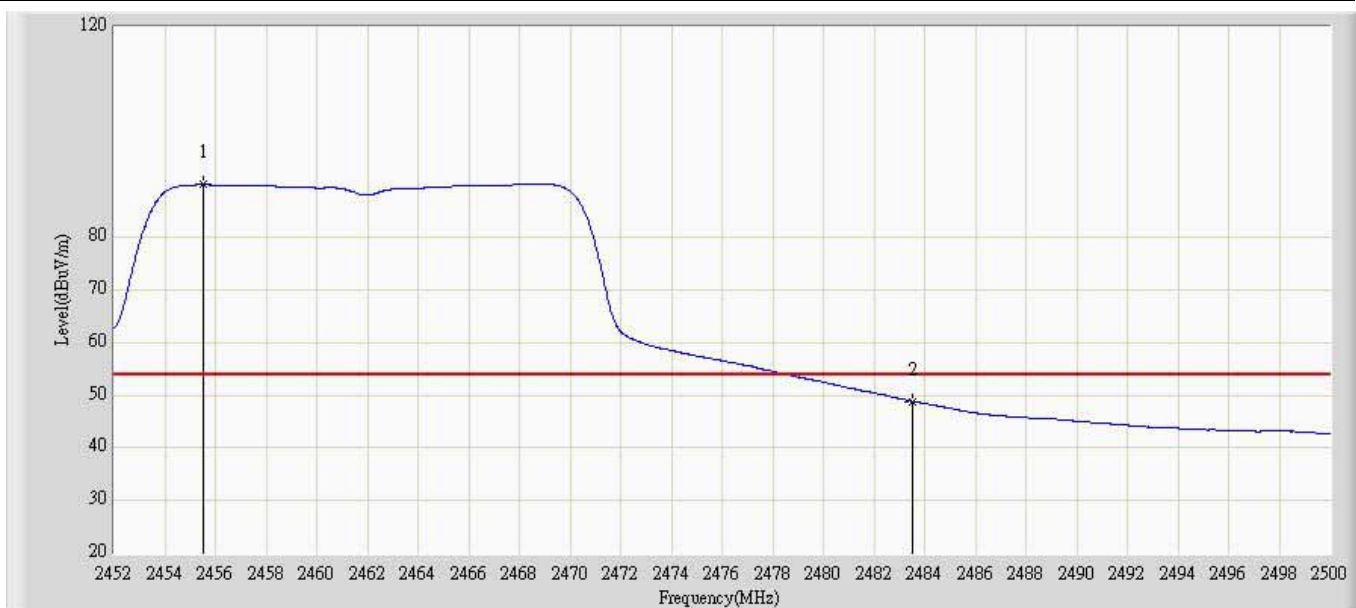
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	43.132	6.831	-10.868	54.000	36.302	AV
2		*	2418.136	84.095	47.558	N/A	N/A	36.536	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 11:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 2462MHz by 802.11g Chain 0	



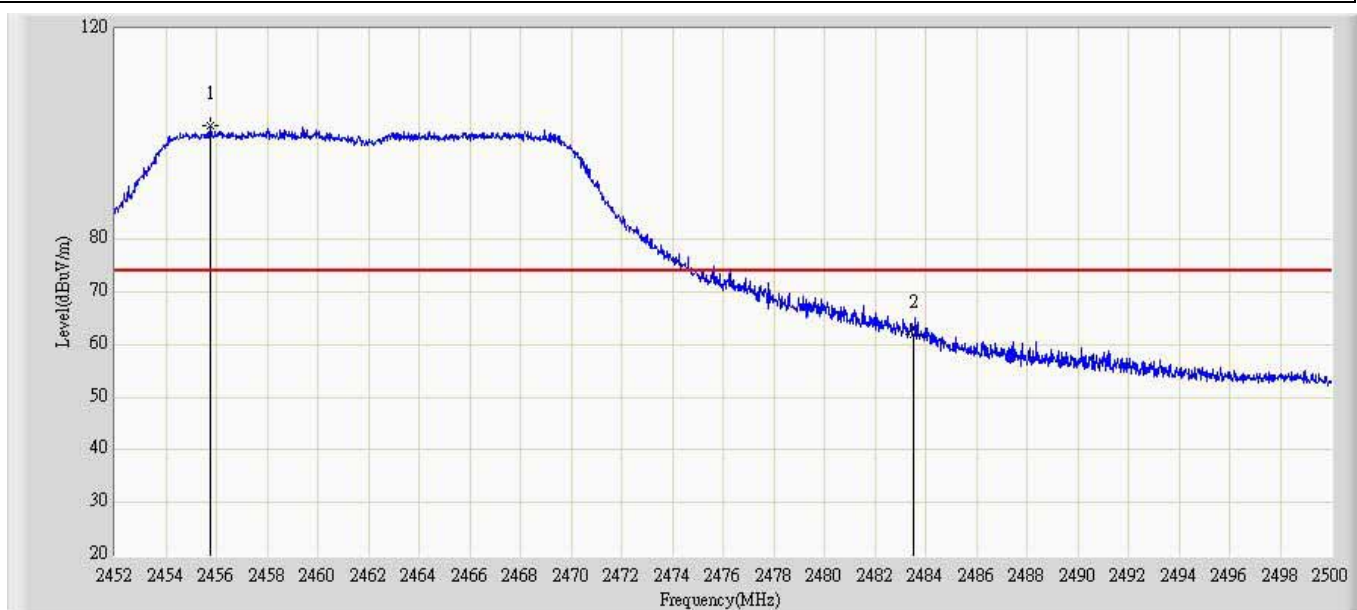
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2459.632	108.312	72.360	N/A	N/A	35.952	PK
2			2483.500	72.960	36.904	-1.040	74.000	36.055	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 11:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 2462MHz by 802.11g Chain 0	



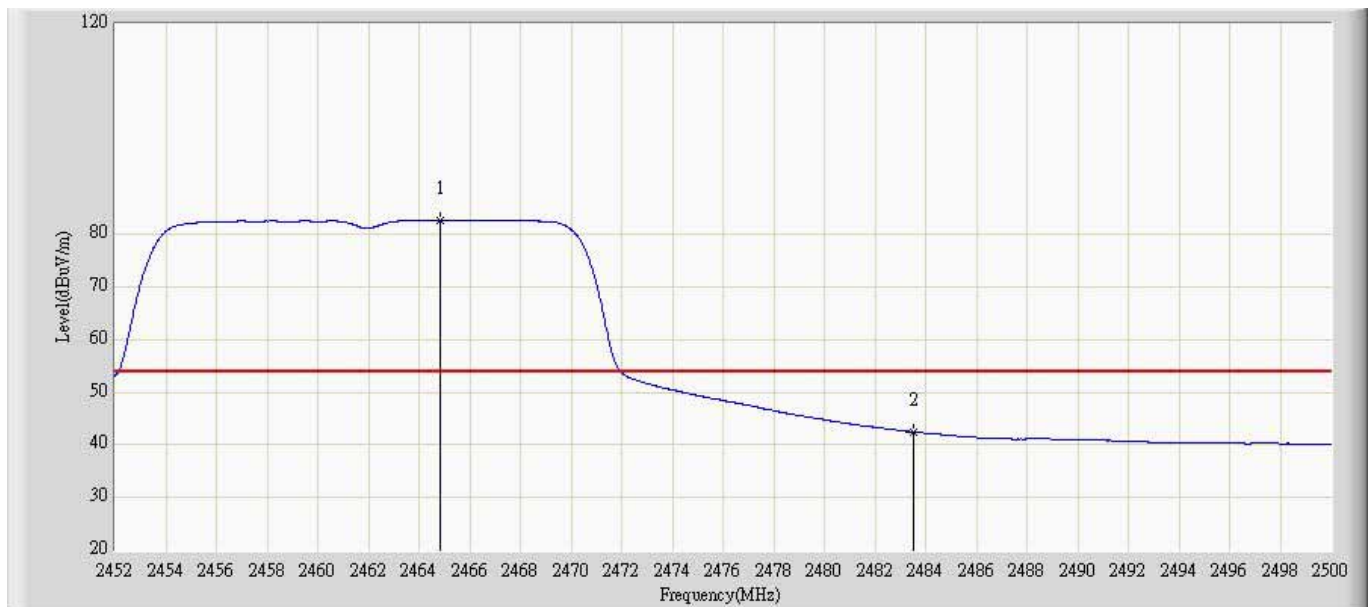
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2455.552	90.031	54.099	N/A	N/A	35.932	AV
2			2483.500	48.840	12.784	-5.160	54.000	36.055	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 11:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 2462MHz by 802.11g Chain 0	



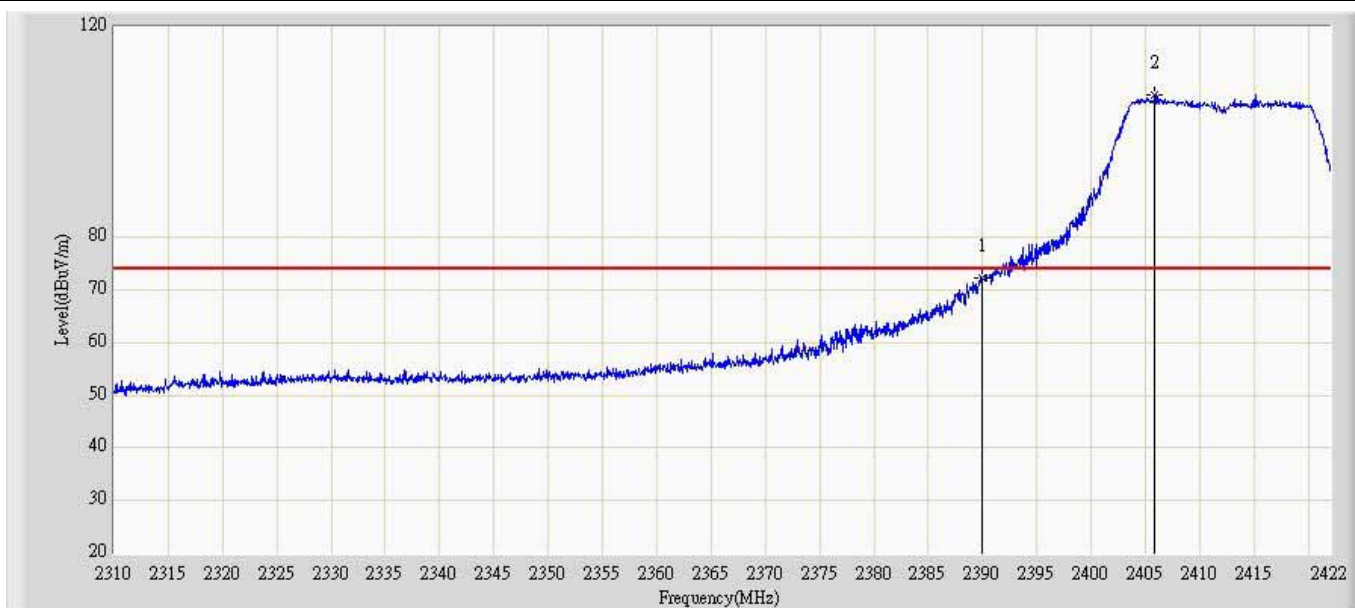
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2455.768	101.574	64.718	N/A	N/A	36.857	PK
2			2483.500	62.042	24.952	-11.958	74.000	37.089	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 11:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 2462MHz by 802.11g Chain 0	



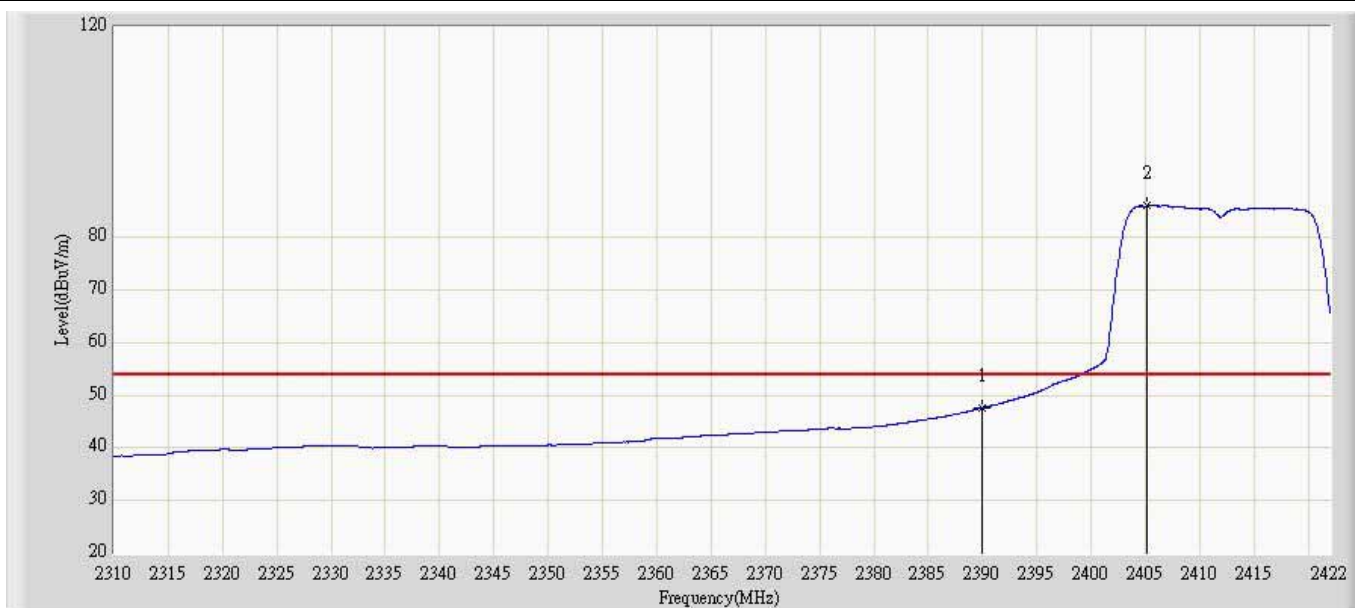
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2464.816	82.727	45.793	N/A	N/A	36.934	AV
2			2483.500	42.442	5.352	-11.558	54.000	37.089	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 11:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2412MHz by 802.11n20MHz Chain 0	



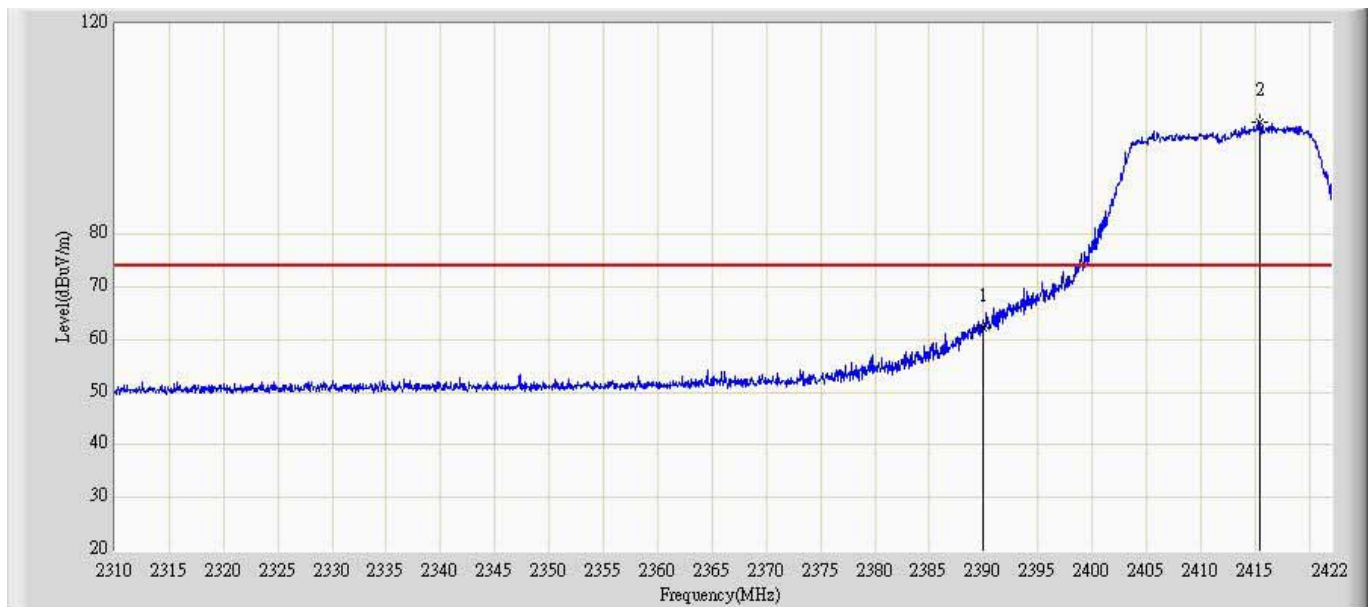
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	72.336	36.695	-1.664	74.000	35.642	PK
2		*	2405.872	107.015	71.307	N/A	N/A	35.708	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 11:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2412MHz by 802.11n20MHz Chain 0	



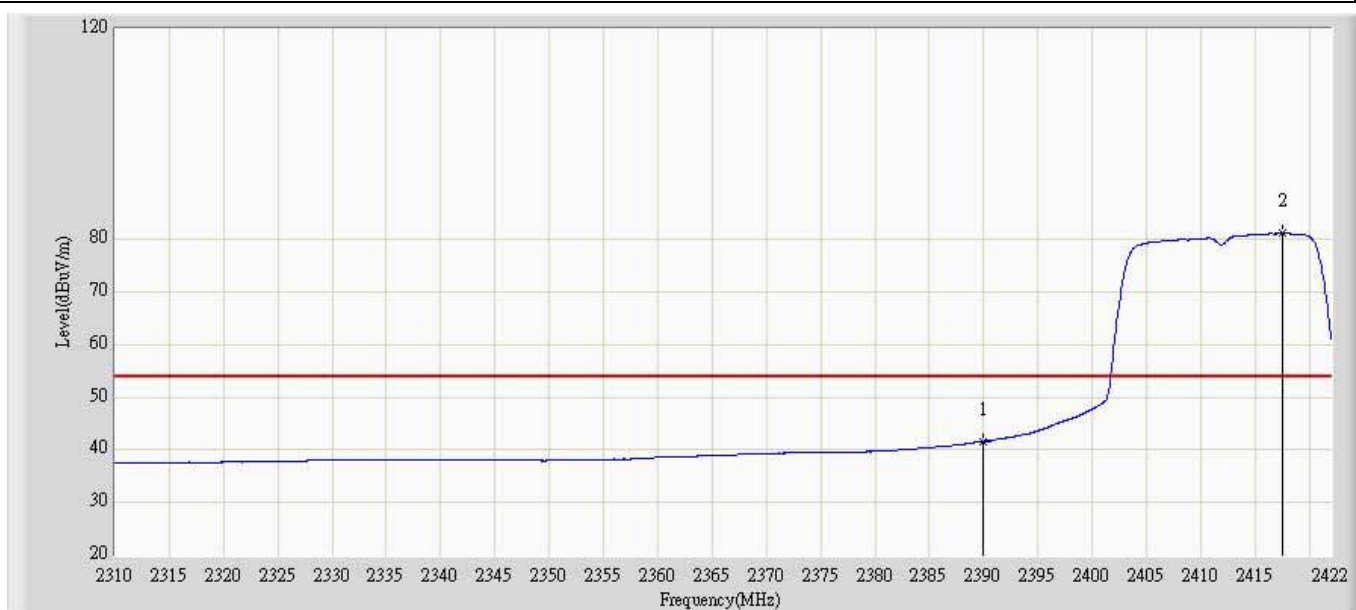
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	47.600	11.959	-6.400	54.000	35.642	AV
2		*	2405.200	86.032	50.327	N/A	N/A	35.706	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 11:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2412MHz by 802.11n20MHz Chain 0	



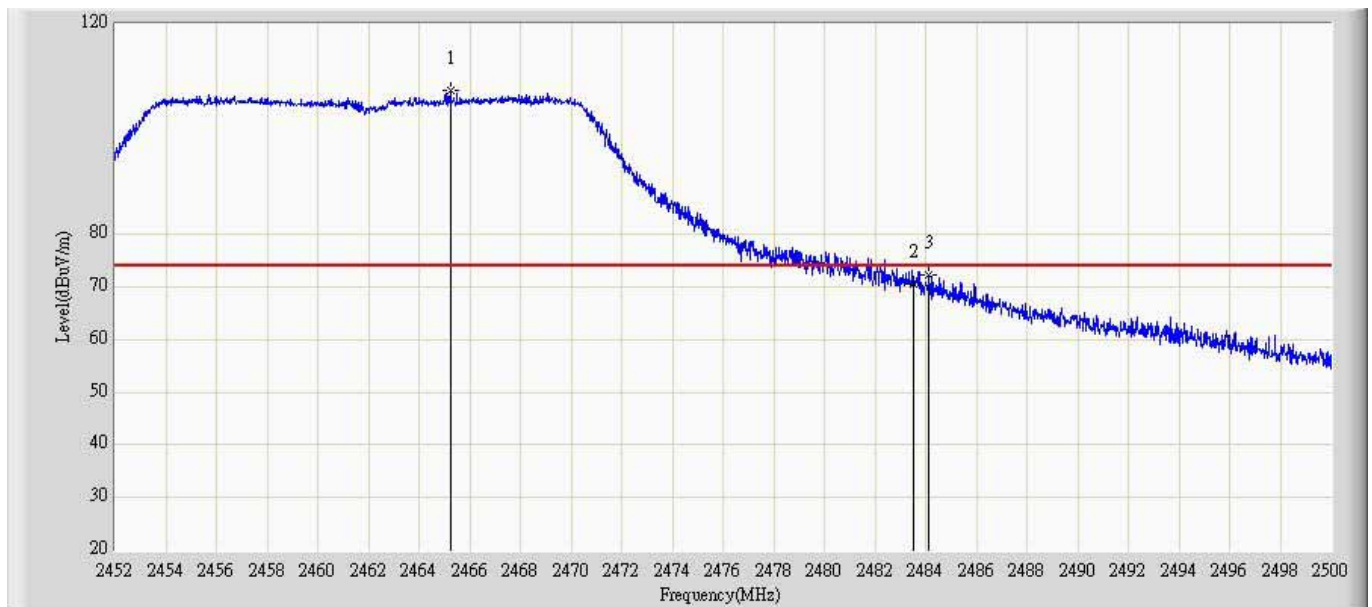
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	62.170	25.869	-11.830	74.000	36.302	PK
2		*	2415.504	101.403	64.890	N/A	N/A	36.513	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 11:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2412MHz by 802.11n20MHz Chain 0	



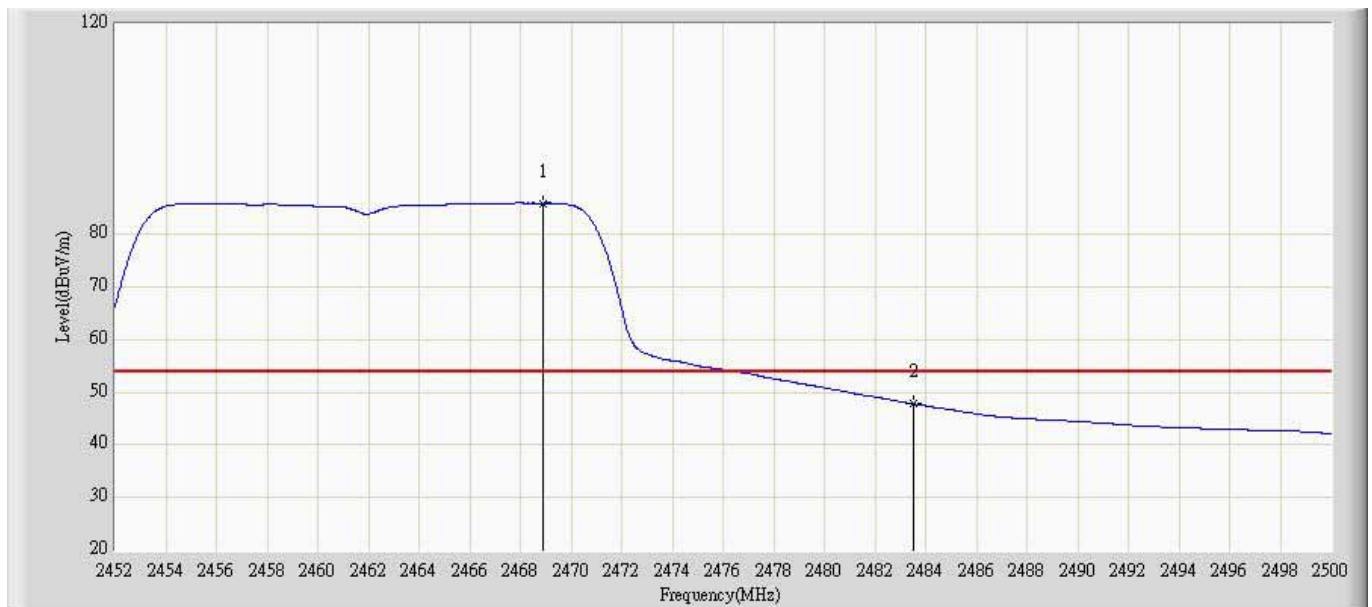
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	41.645	5.344	-12.355	54.000	36.302	AV
2		*	2417.576	81.102	44.570	N/A	N/A	36.532	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 11:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2462MHz by 802.11n20MHz Chain 0	



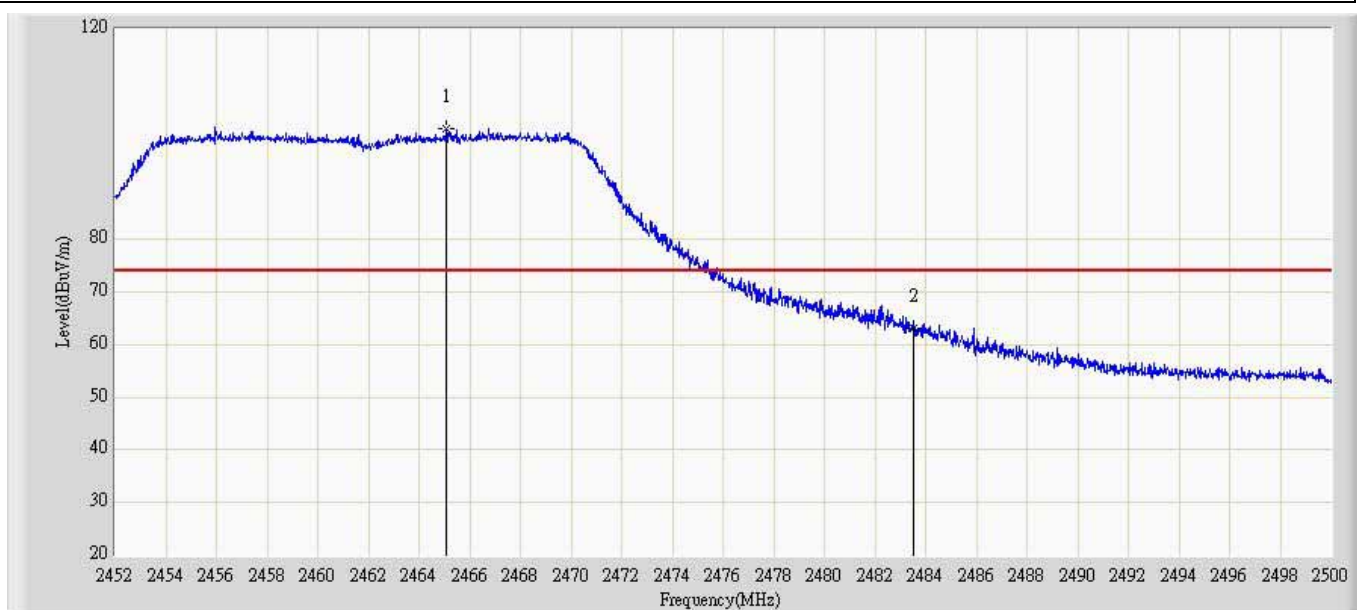
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2465.224	107.247	71.271	N/A	N/A	35.977	PK
2			2483.500	70.502	34.446	-3.498	74.000	36.055	PK
3			2484.136	72.410	36.351	-1.590	74.000	36.059	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 11:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2462MHz by 802.11n20MHz Chain 0	



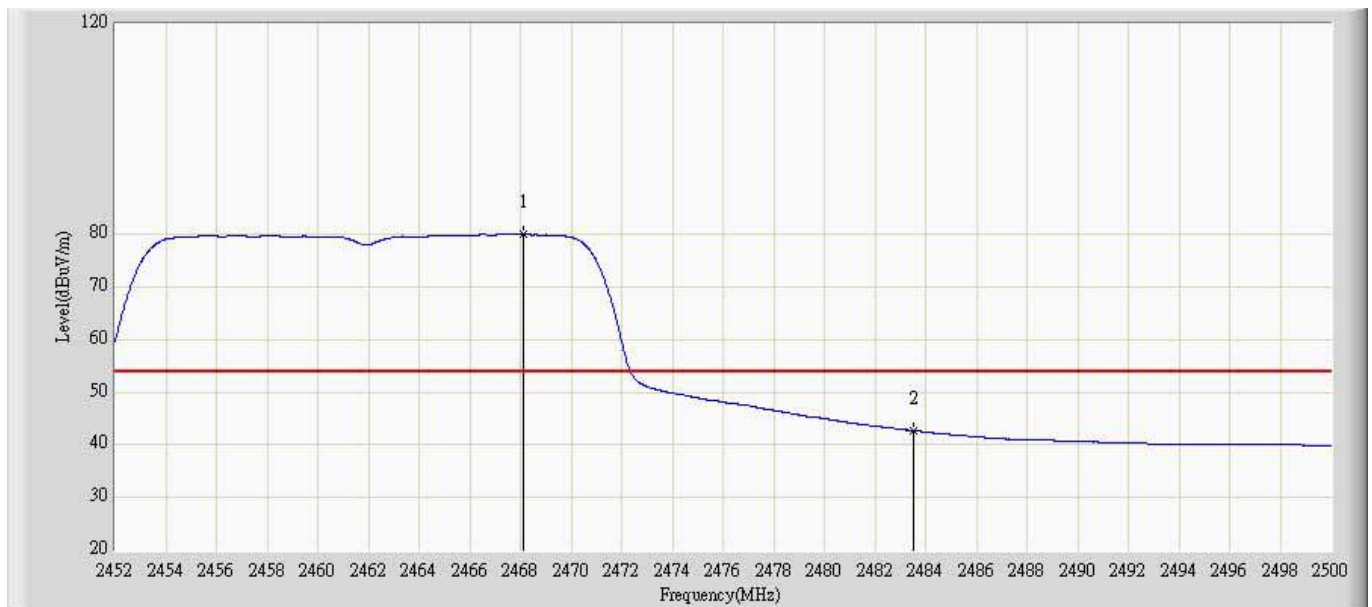
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2468.920	85.939	49.947	N/A	N/A	35.992	AV
2			2483.500	47.819	11.763	-6.181	54.000	36.055	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 11:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2462MHz by 802.11n20MHz Chain 0	



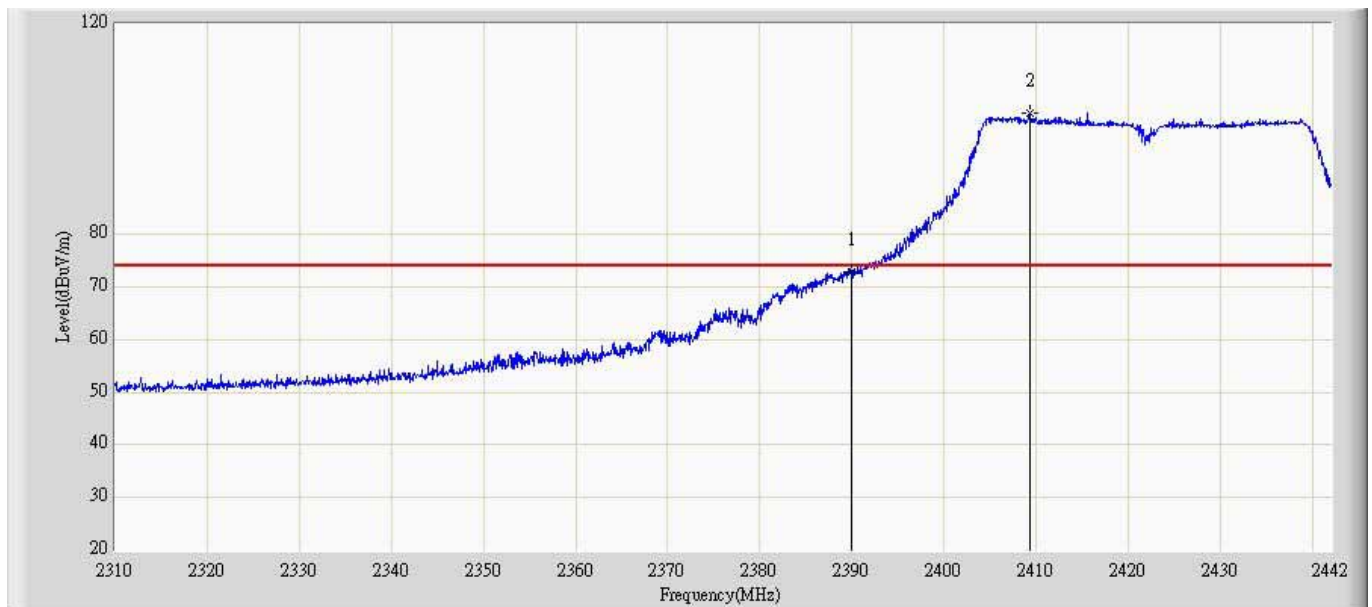
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2465.080	101.138	64.202	N/A	N/A	36.936	PK
2			2483.500	63.195	26.105	-10.805	74.000	37.089	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 11:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2462MHz by 802.11n20MHz Chain 0	



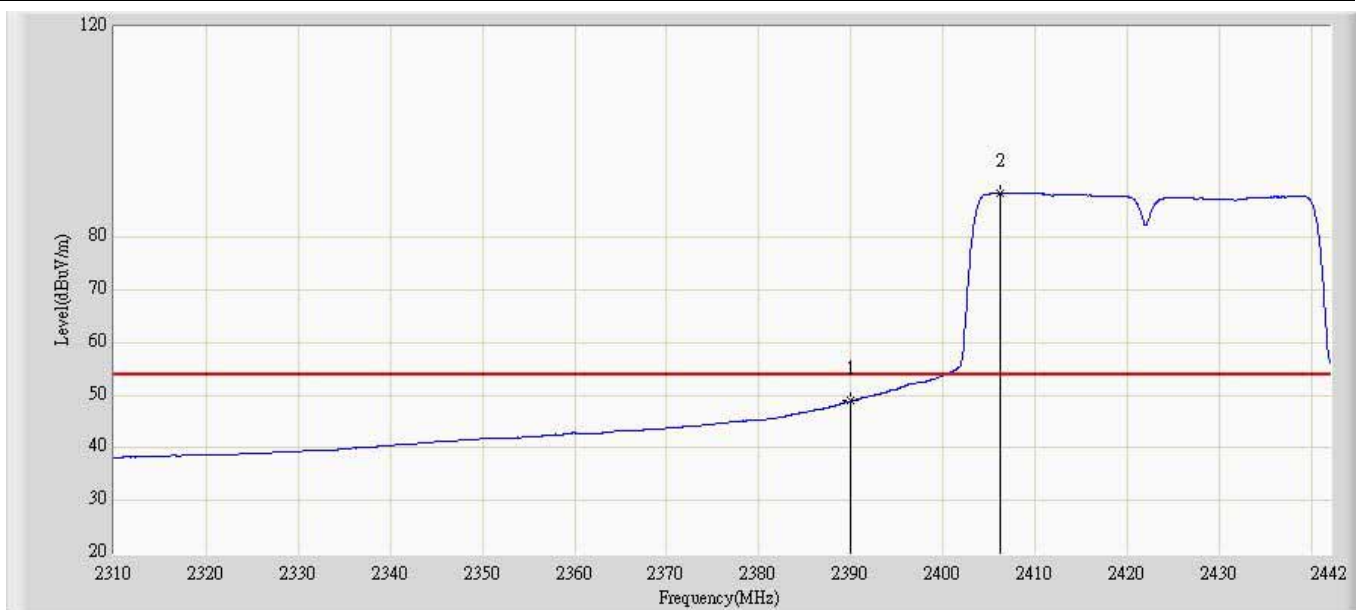
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2468.104	80.007	43.046	N/A	N/A	36.961	AV
2			2483.500	42.694	5.604	-11.306	54.000	37.089	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 11:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2422MHz by 802.11n40MHz Chain 0	



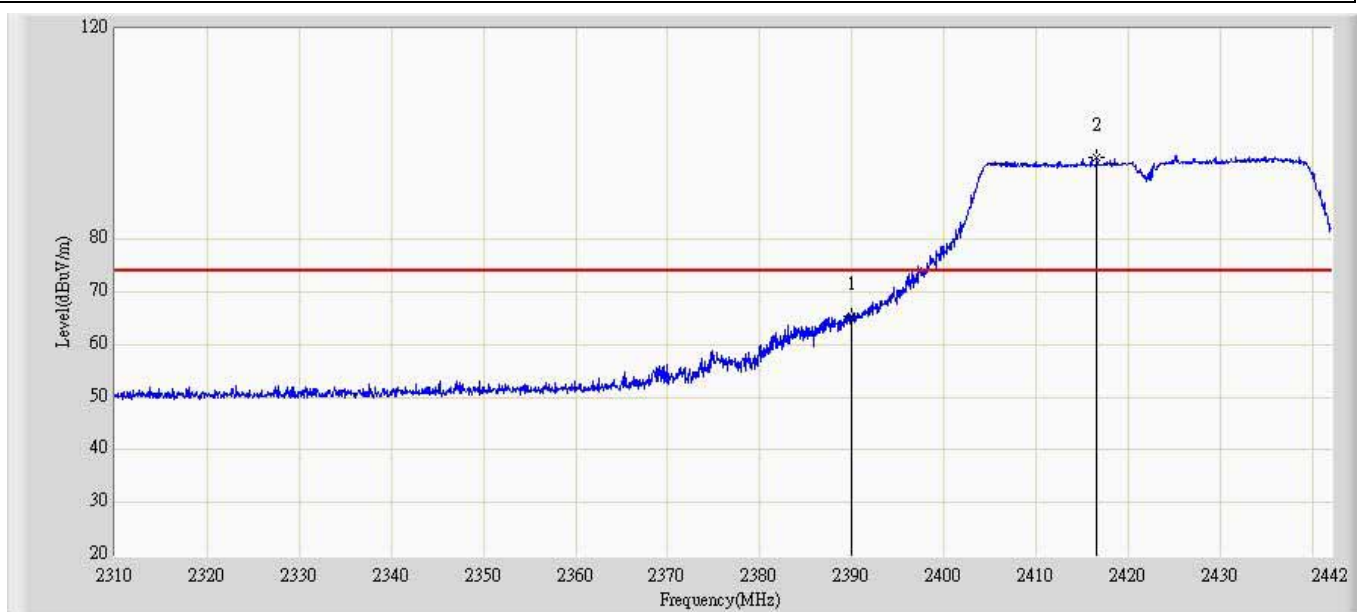
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	72.893	37.252	N/A	N/A	35.642	PK
2		*	2409.264	103.078	67.355	29.078	74.000	35.723	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 11:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2422MHz by 802.11n40MHz Chain 0	



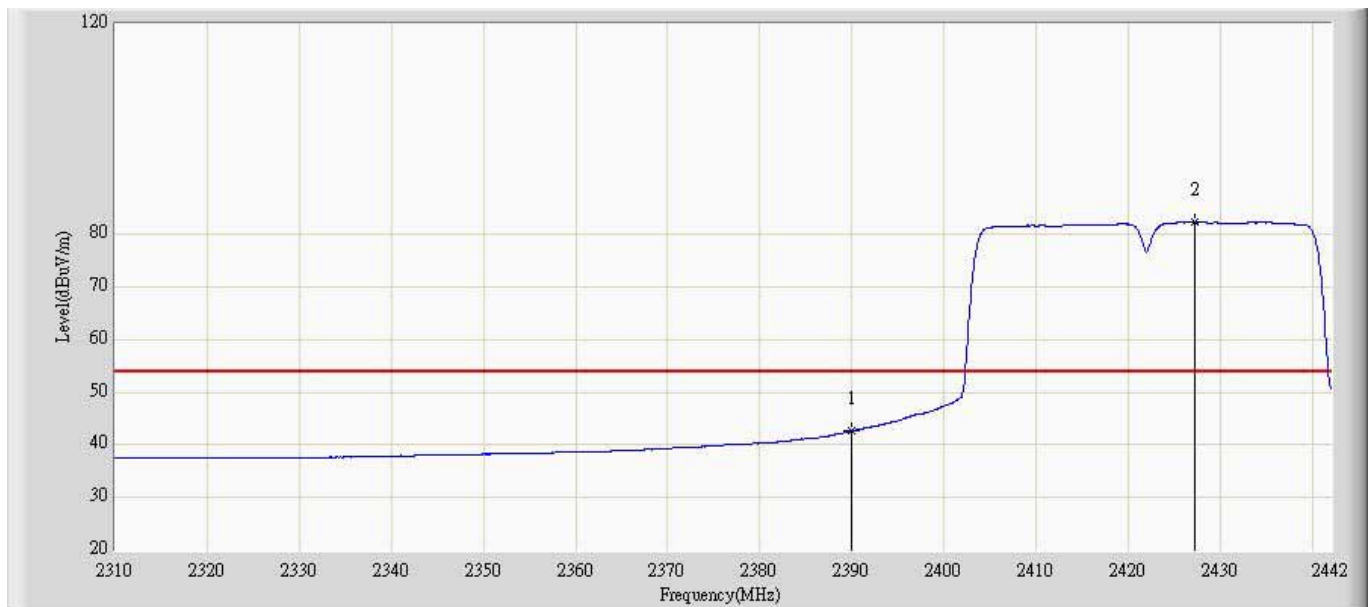
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	48.891	13.250	-5.109	54.000	35.642	AV
2		*	2406.228	88.346	52.636	N/A	N/A	35.710	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 11:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2422MHz by 802.11n40MHz Chain 0	



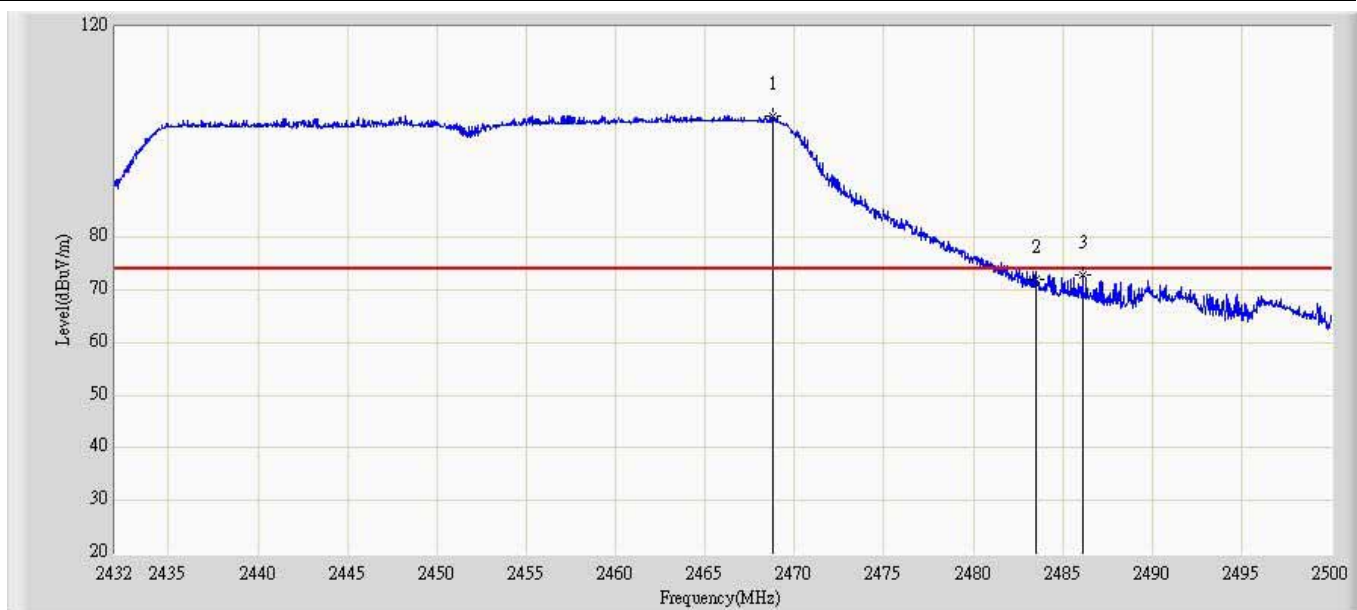
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	65.395	29.094	-8.605	74.000	36.302	PK
2		*	2416.590	95.622	59.099	N/A	N/A	36.523	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 11:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2422MHz by 802.11n40MHz Chain 0	



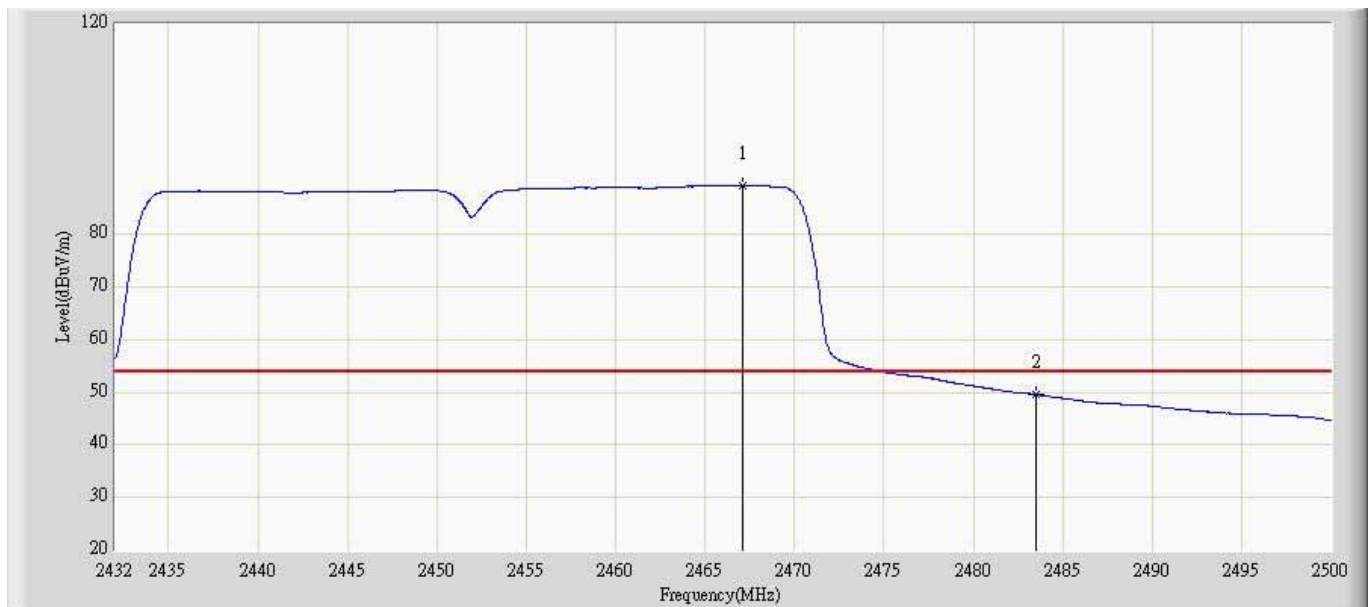
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	42.653	6.352	-11.347	54.000	36.302	AV
2		*	2427.150	82.335	45.719	N/A	N/A	36.616	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 11:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2452MHz by 802.11n40MHz Chain 0	



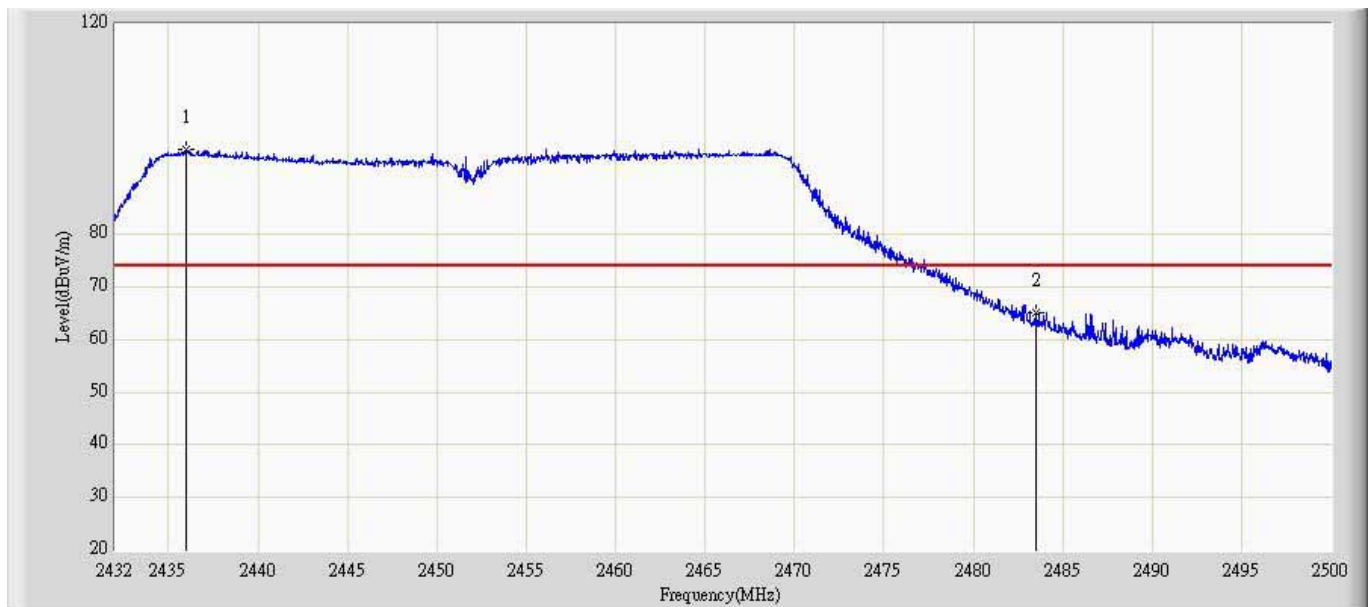
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2468.754	103.153	67.162	N/A	N/A	35.991	PK
2			2483.500	72.080	36.024	-1.920	74.000	36.055	PK
3			2486.128	72.965	36.897	-1.035	74.000	36.068	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 11:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2452MHz by 802.11n40MHz Chain 0	



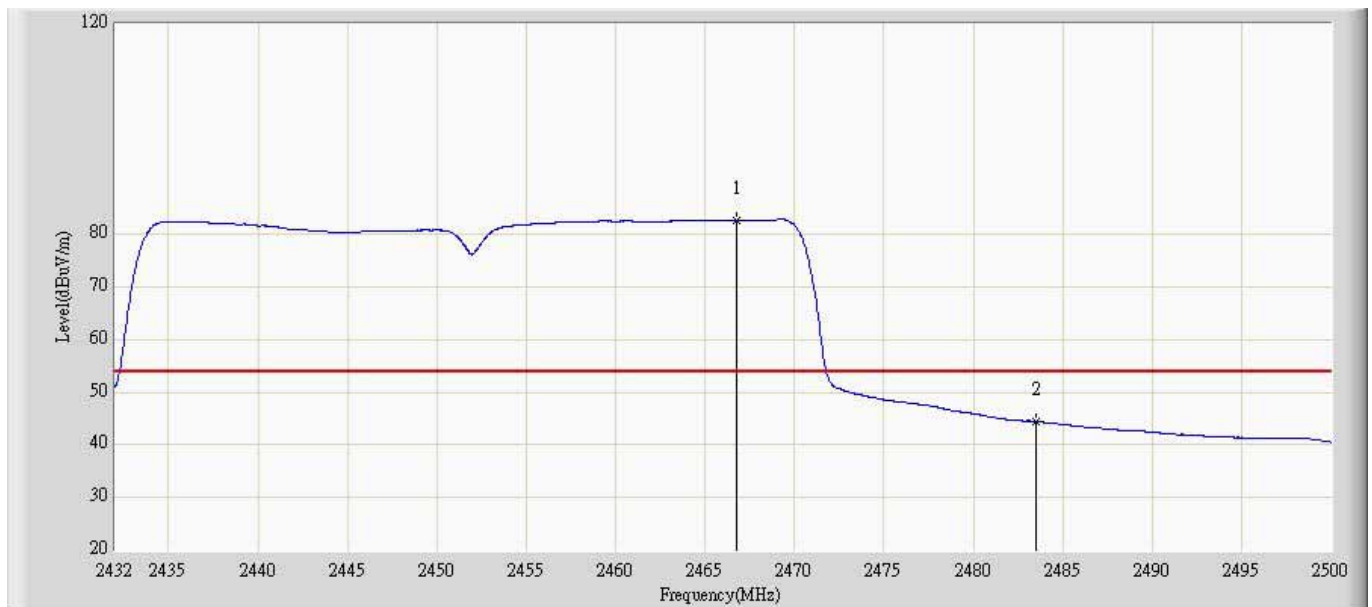
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2467.088	89.169	53.185	N/A	N/A	35.984	AV
2			2483.500	49.552	13.496	-4.448	54.000	36.055	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 11:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2452MHz by 802.11n40MHz Chain 0	



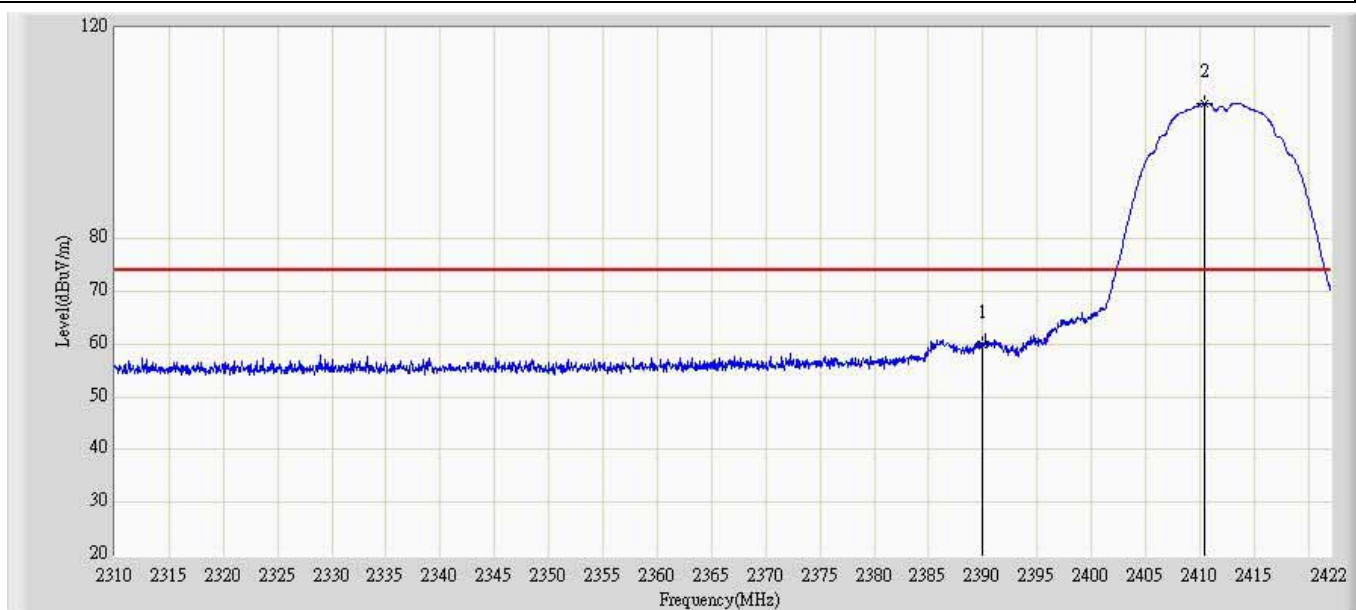
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2435.978	96.066	59.378	N/A	N/A	36.689	PK
2			2483.500	65.108	28.018	-8.892	74.000	37.089	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 11:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2452MHz by 802.11n40MHz Chain 0	



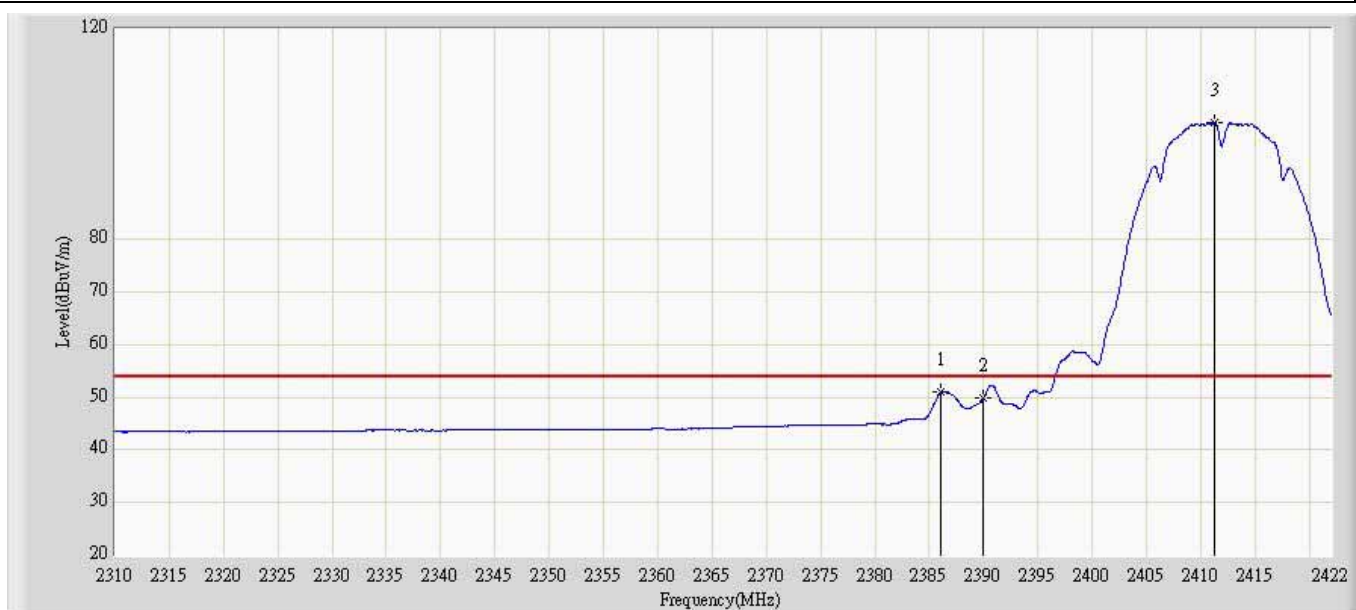
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2466.748	82.625	45.675	N/A	N/A	36.950	AV
2			2483.500	44.476	7.386	-9.524	54.000	37.089	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 17:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 2412MHz by 802.11b Chain 1	



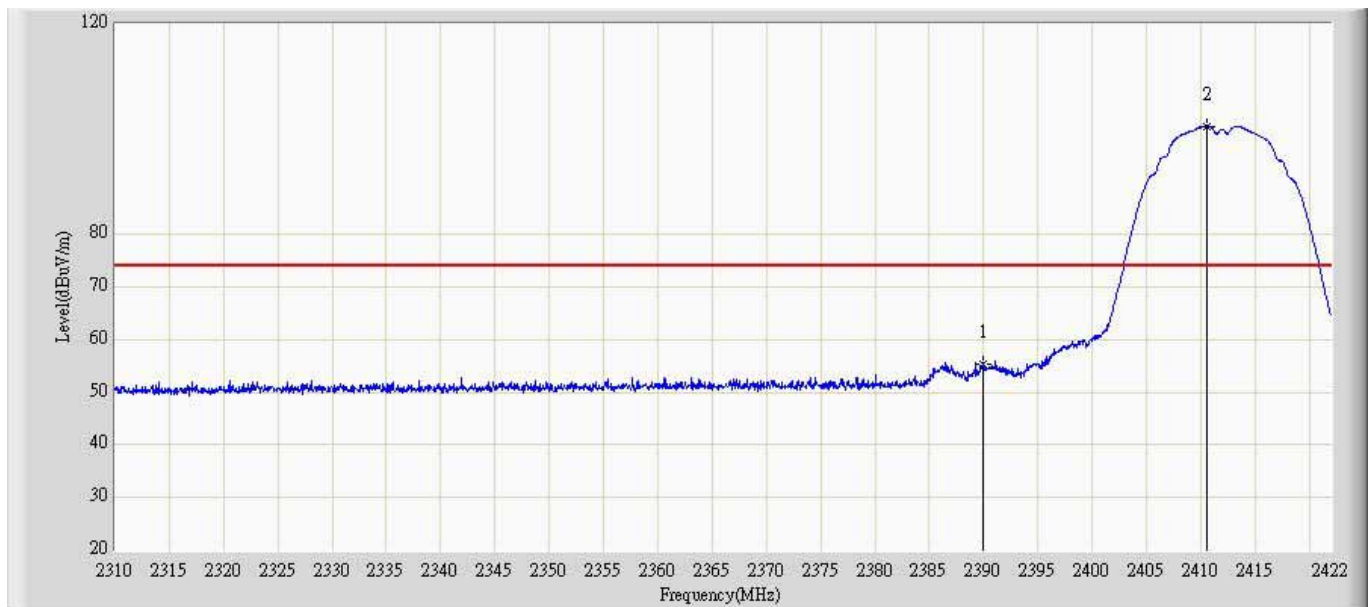
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	59.799	24.158	-14.201	74.000	35.642	PK
2		*	2410.464	105.681	69.953	N/A	N/A	35.728	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 17:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 2412MHz by 802.11b Chain 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2386.104	50.920	15.295	-3.080	54.000	35.625	AV
2			2390.000	49.757	14.116	-4.243	54.000	35.642	AV
3		*	2411.304	102.200	66.469	N/A	N/A	35.731	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 17:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 2412MHz by 802.11b Chain 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	55.357	19.056	-18.643	74.000	36.302	PK
2		*	2410.632	100.596	64.125	N/A	N/A	36.471	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 17:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 2412MHz by 802.11b Chain 1	



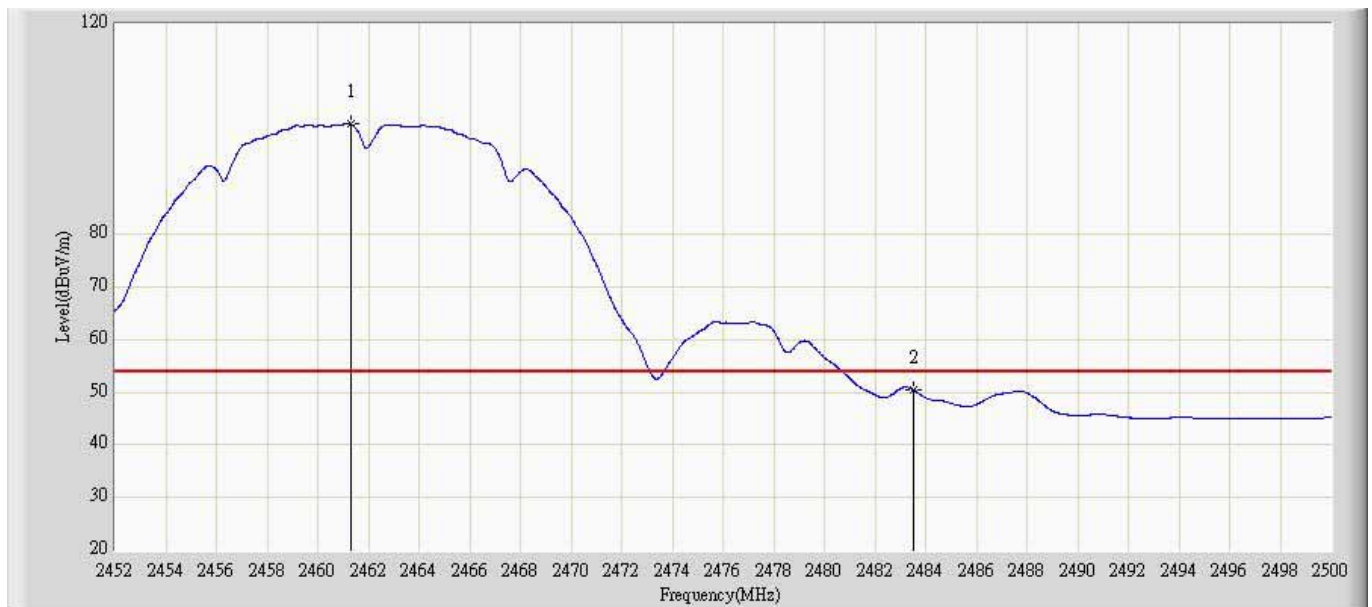
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	43.691	7.390	-10.309	54.000	36.302	AV
2		*	2411.024	96.887	60.413	N/A	N/A	36.474	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 17:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 2462MHz by 802.11b Chain 1	



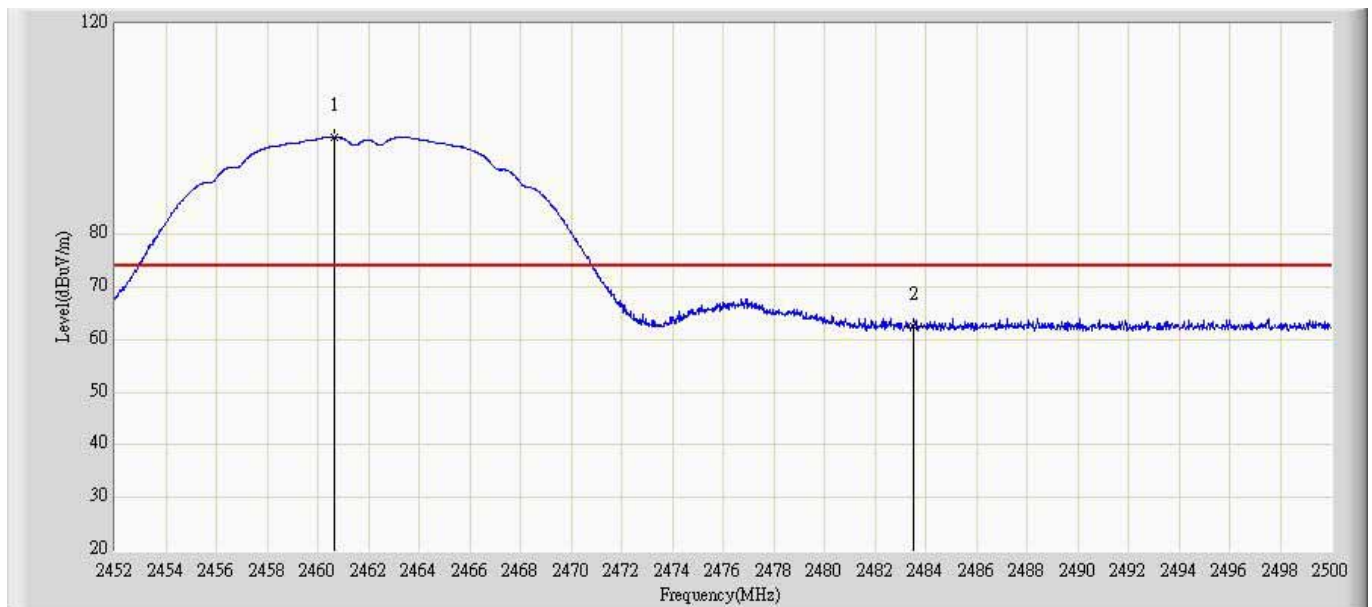
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2460.568	105.035	69.079	N/A	N/A	35.956	PK
2			2483.500	60.523	24.467	-13.477	74.000	36.055	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 17:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 2462MHz by 802.11b Chain 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2461.312	100.949	64.989	N/A	N/A	35.960	AV
2			2483.500	50.563	14.507	-3.437	54.000	36.055	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 17:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 2462MHz by 802.11b Chain 1	



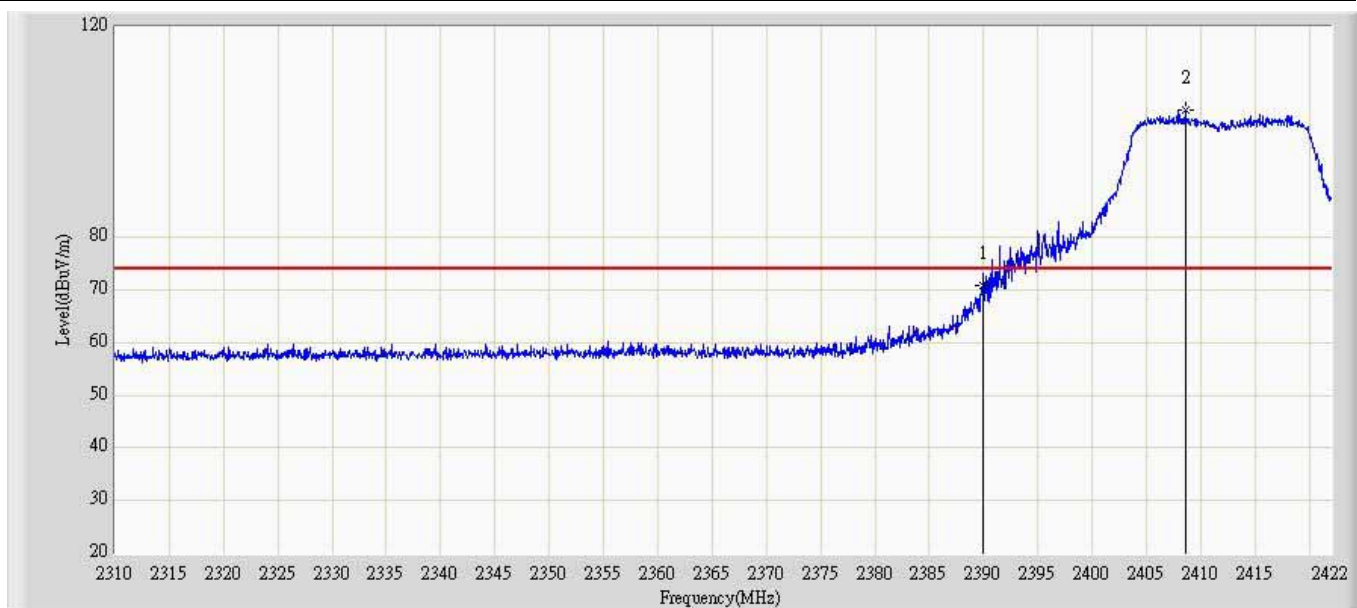
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2460.640	98.432	61.533	N/A	N/A	36.899	PK
2			2483.500	62.597	25.507	-11.403	74.000	37.089	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/01 - 18:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 2462MHz by 802.11b Chain 1	



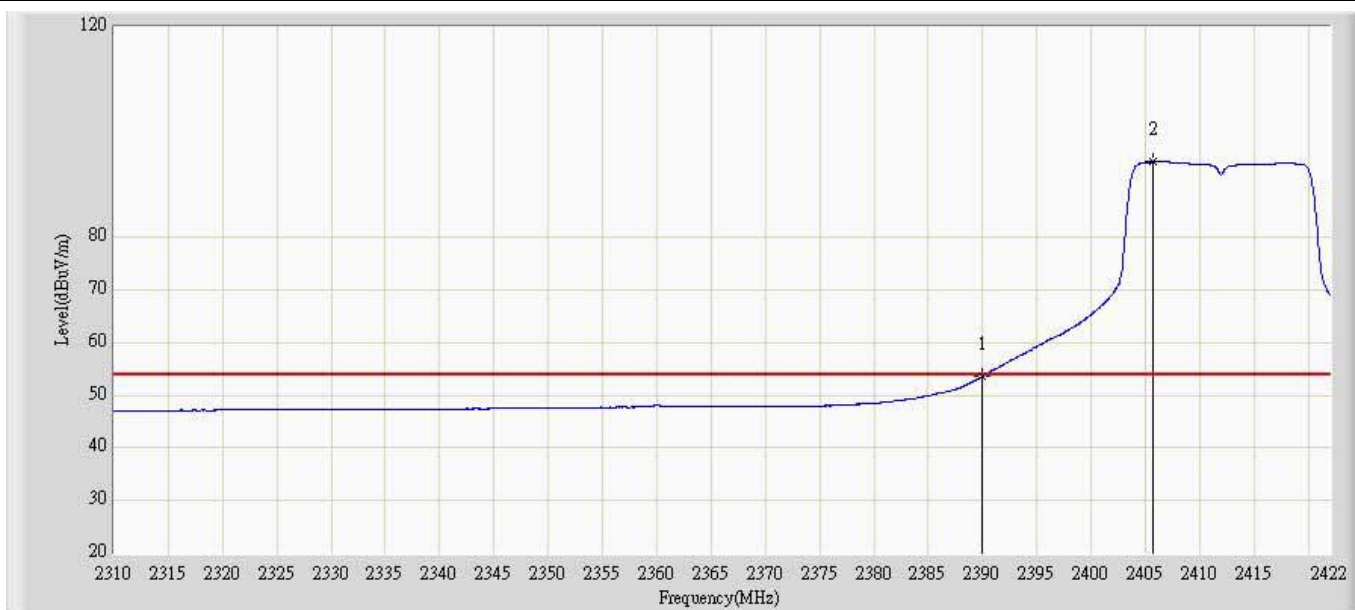
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2461.048	94.102	57.199	N/A	N/A	36.903	AV
2			2483.500	49.861	12.771	-4.139	54.000	37.089	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 09:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 2412MHz by 802.11g Chain 1	



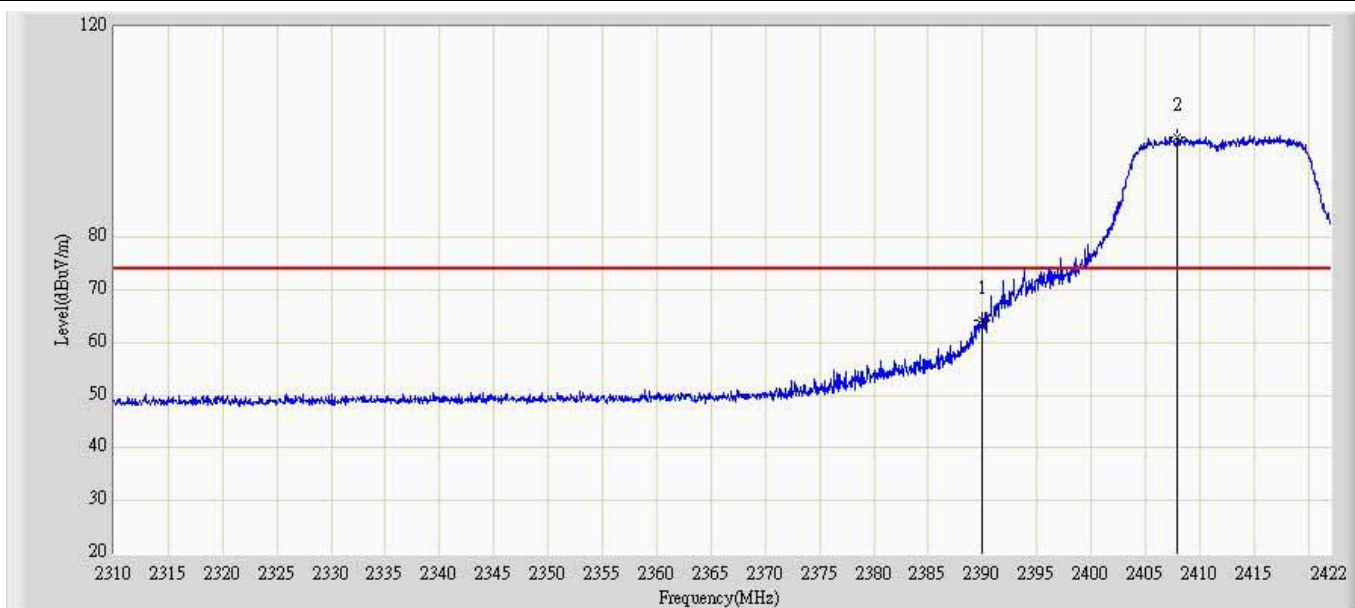
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	70.883	35.242	-3.117	74.000	35.642	PK
2		*	2408.560	104.321	68.601	N/A	N/A	35.720	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 09:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 2412MHz by 802.11g Chain 1	



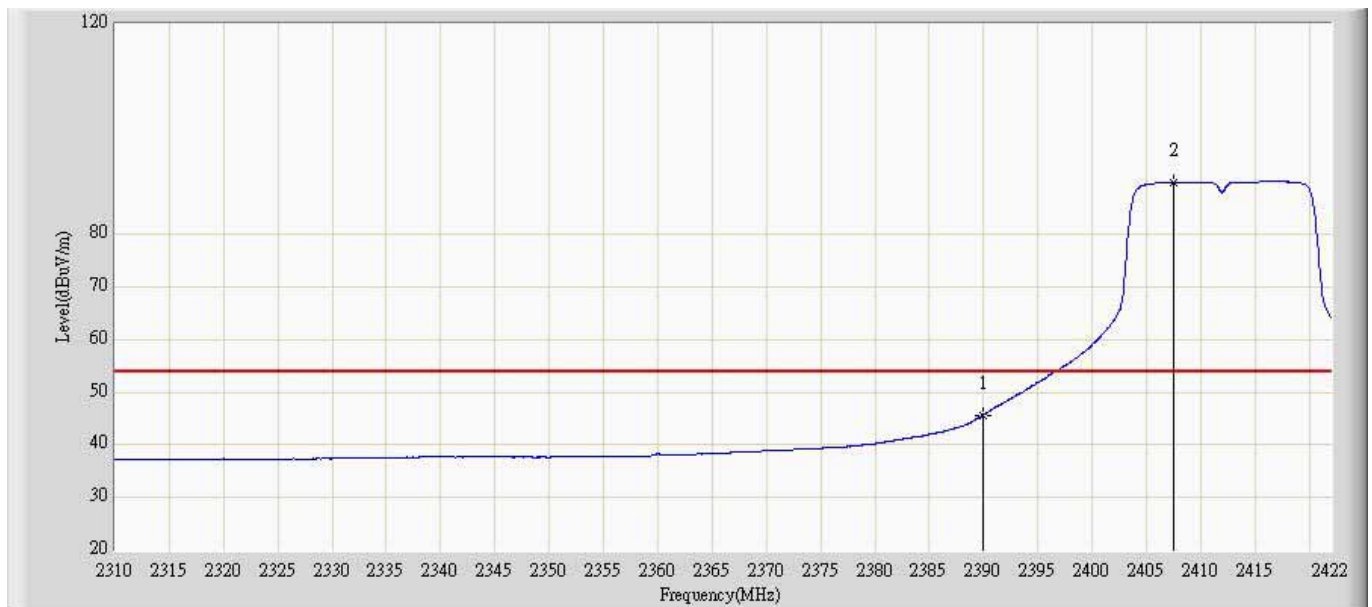
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	53.593	17.952	-0.407	54.000	35.642	AV
2		*	2405.760	94.298	58.590	N/A	N/A	35.708	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 09:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 2412MHz by 802.11g Chain 1	



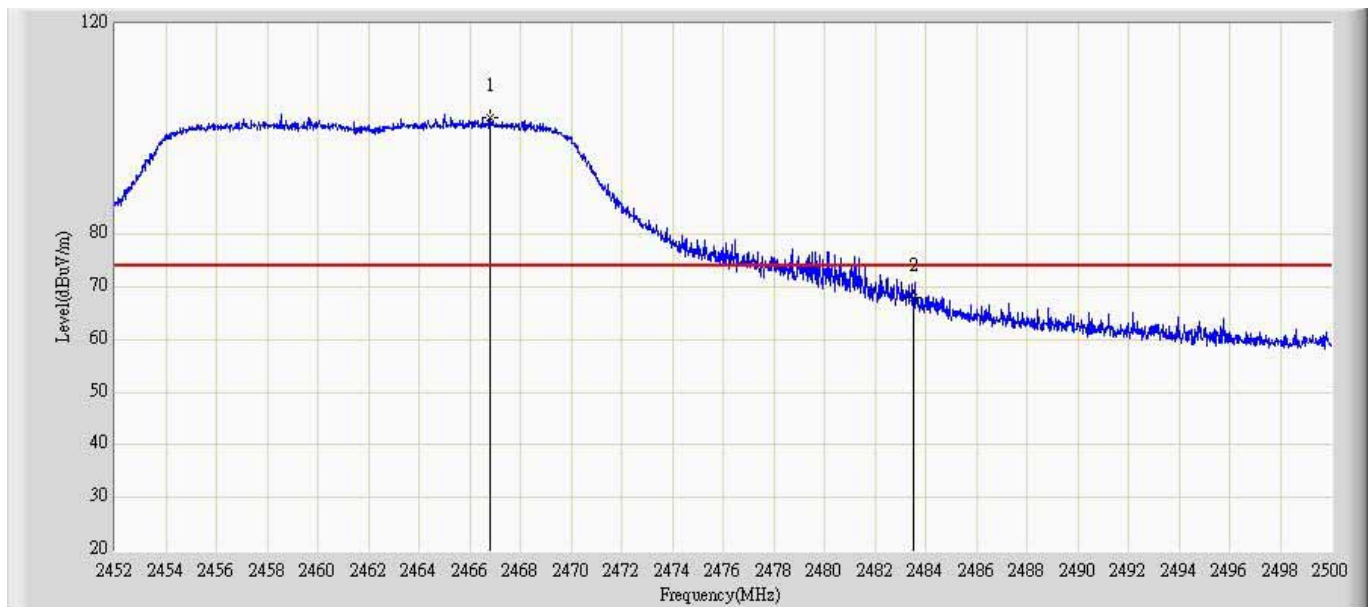
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	64.364	28.063	-9.636	74.000	36.302	PK
2		*	2407.944	98.930	62.481	N/A	N/A	36.449	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 09:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 2412MHz by 802.11g Chain 1	



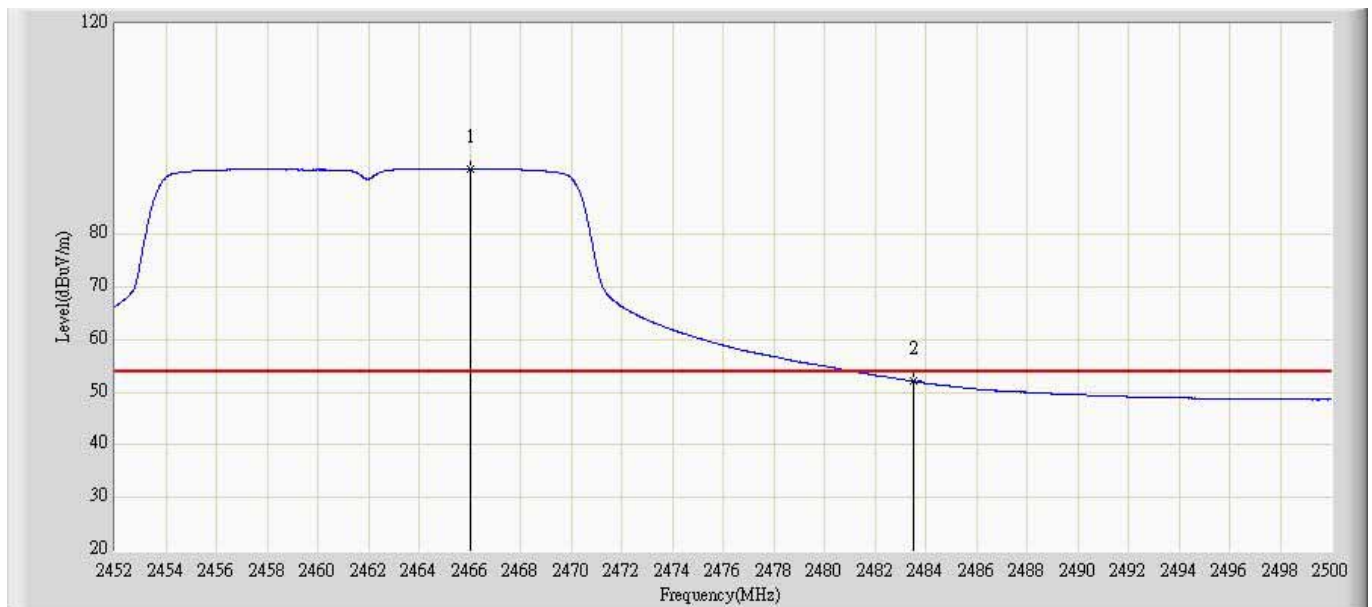
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	45.718	9.417	-8.282	54.000	36.302	AV
2		*	2407.496	89.883	53.438	N/A	N/A	36.445	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 09:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 2462MHz by 802.11g Chain 1	



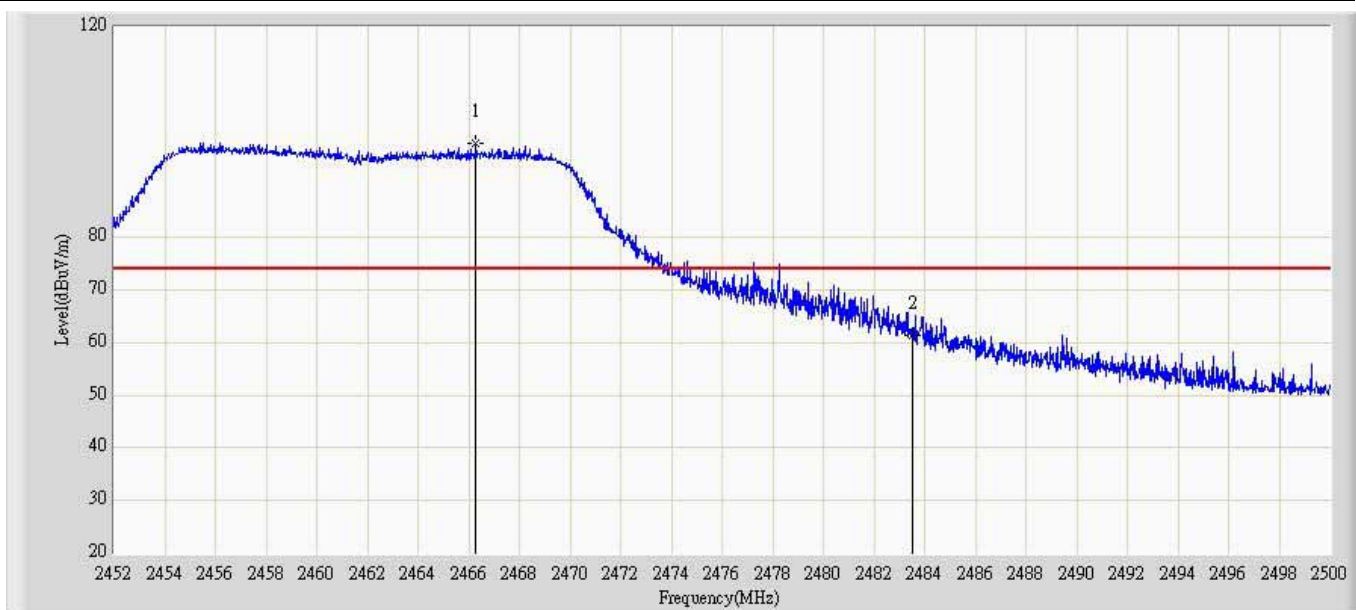
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2466.784	102.166	66.183	N/A	N/A	35.983	PK
2			2483.500	67.927	31.871	-6.073	74.000	36.055	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 09:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 2462MHz by 802.11g Chain 1	



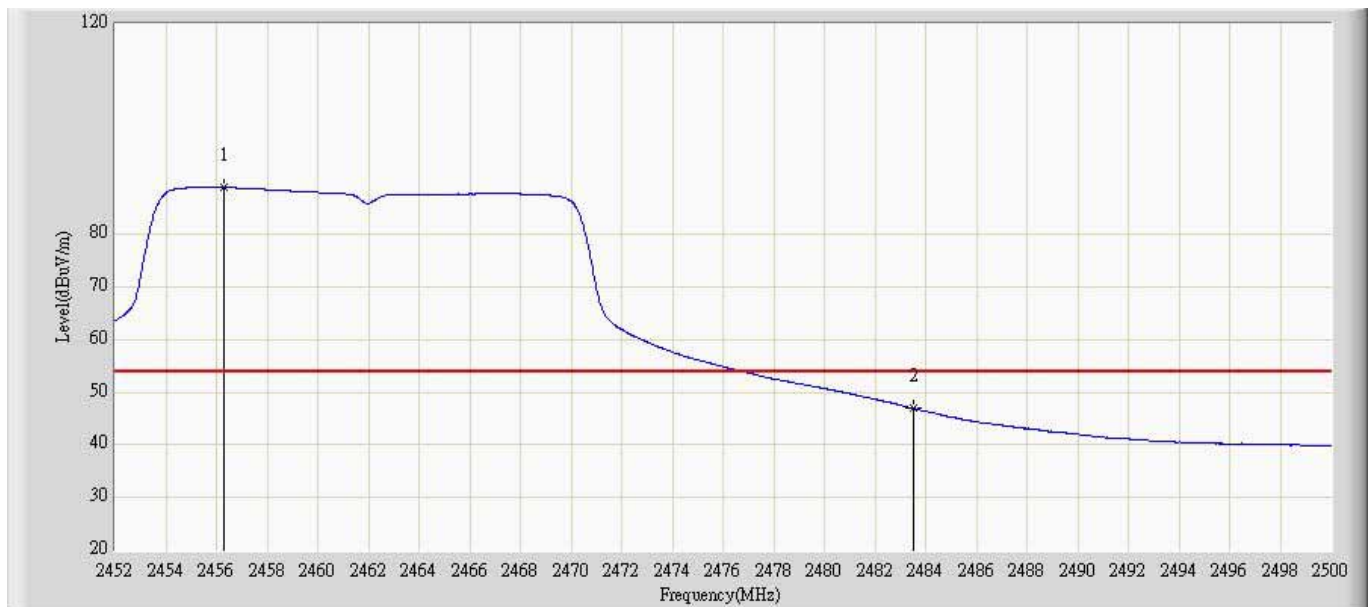
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2466.016	92.454	56.474	N/A	N/A	35.979	AV
2			2483.500	52.106	16.050	-1.894	54.000	36.055	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 09:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 2462MHz by 802.11g Chain 1	



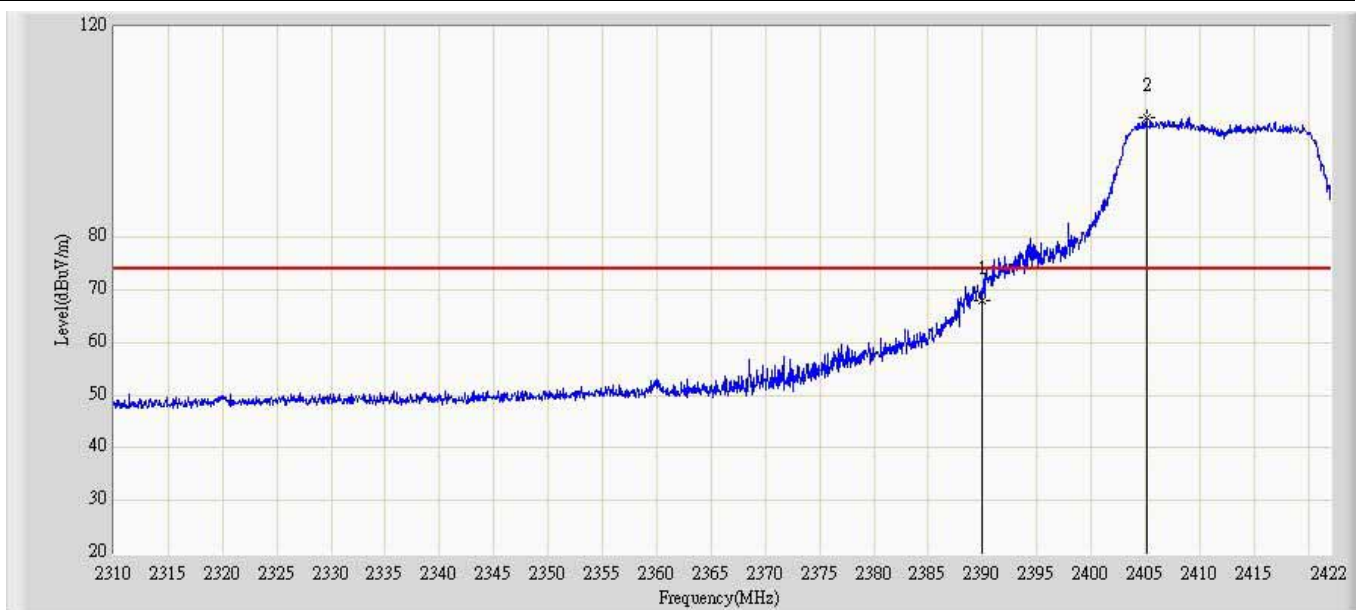
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2466.280	97.939	60.993	N/A	N/A	36.946	PK
2			2483.500	61.325	24.235	-12.675	74.000	37.089	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 09:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 2462MHz by 802.11g Chain 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2456.296	88.882	52.021	N/A	N/A	36.861	AV
2			2483.500	46.930	9.840	-7.070	54.000	37.089	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 09:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2412MHz by 802.11n20 Chain 1	



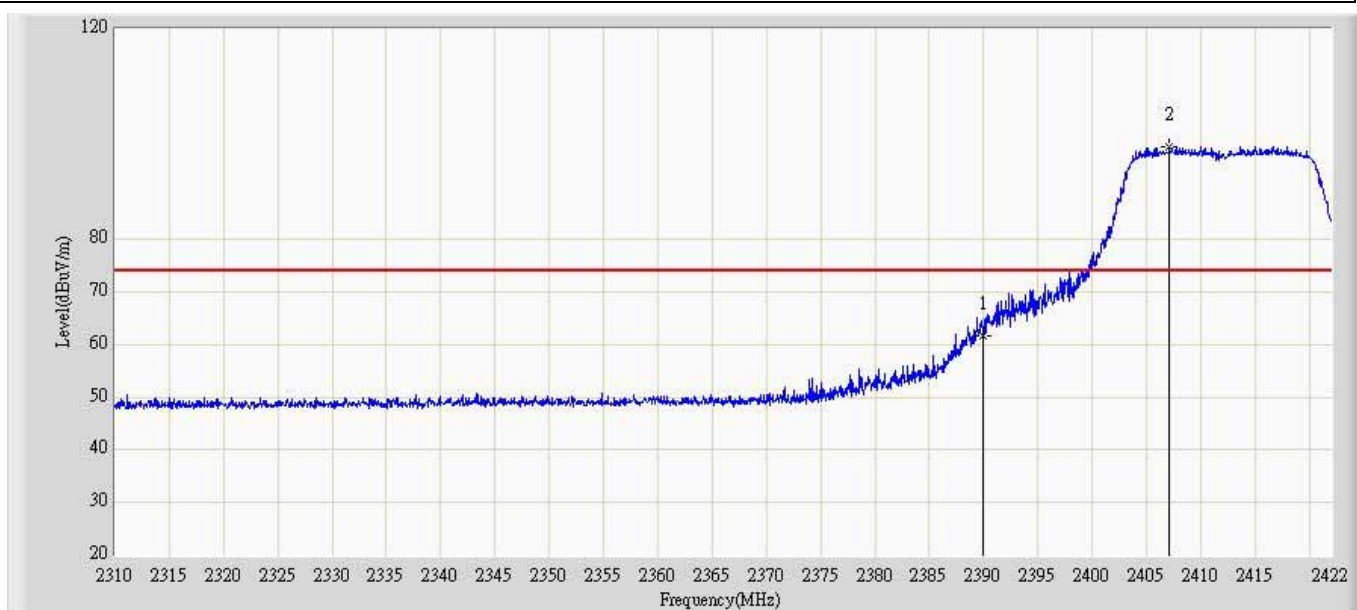
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	67.947	32.306	-6.053	74.000	35.642	PK
2		*	2405.088	102.727	67.022	N/A	N/A	35.705	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 10:03
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2412MHz by 802.11n20 Chain 1	



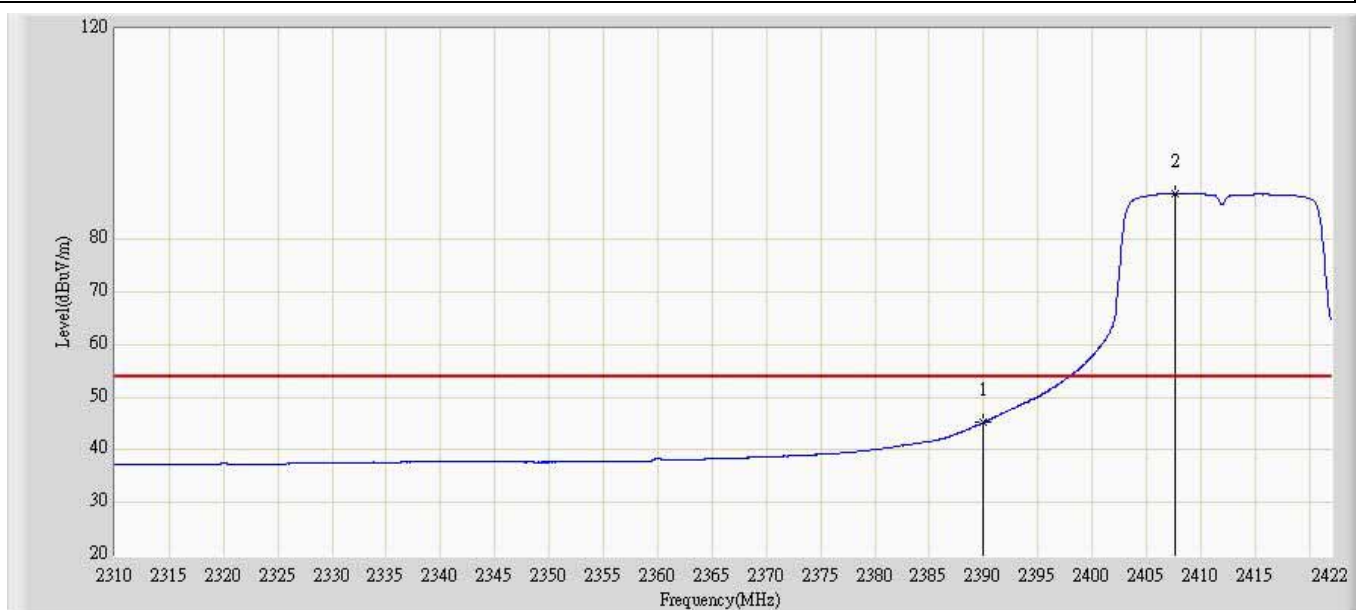
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	51.406	15.765	-2.594	54.000	35.642	AV
2		*	2404.136	92.529	56.828	N/A	N/A	35.701	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 10:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2412MHz by 802.11n20 Chain 1	



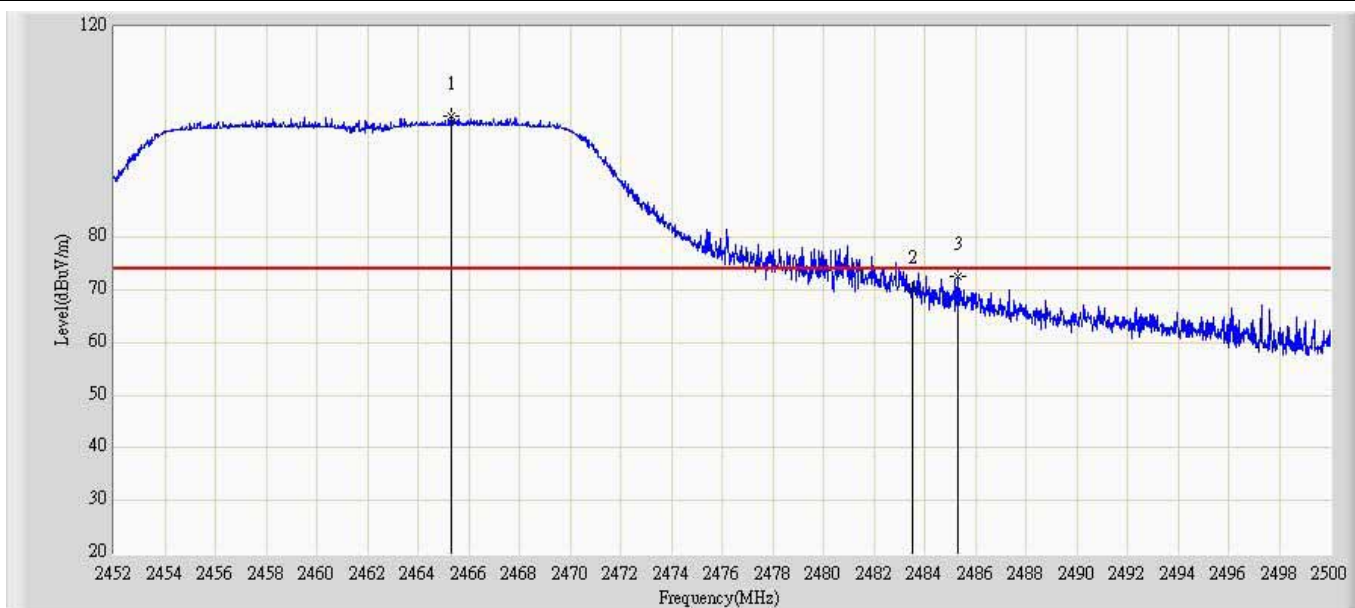
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	61.718	25.417	-12.282	74.000	36.302	PK
2		*	2407.104	97.647	61.205	N/A	N/A	36.442	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 10:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2412MHz by 802.11n20 Chain 1	



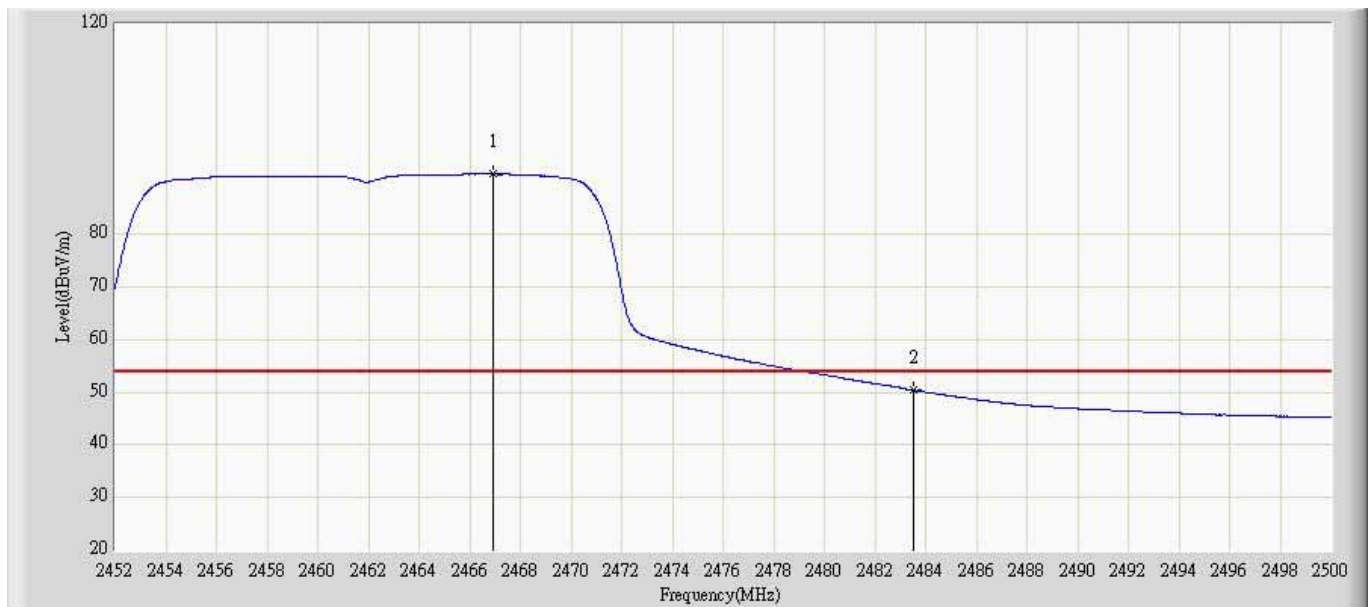
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	45.146	8.845	-8.854	54.000	36.302	AV
2		*	2407.664	88.677	52.230	N/A	N/A	36.446	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 10:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2462MHz by 802.11n20 Chain 1	



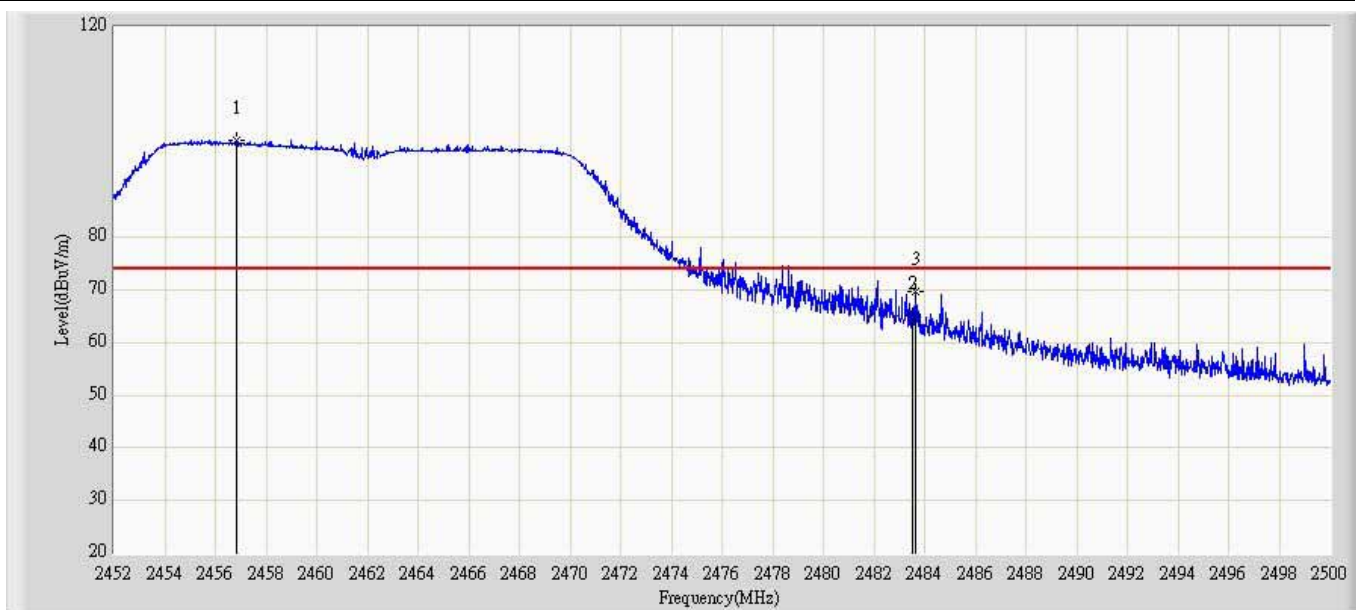
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2465.296	102.969	66.992	N/A	N/A	35.977	PK
2			2483.500	70.073	34.017	-3.927	74.000	36.055	PK
3			2485.336	72.619	36.554	-1.381	74.000	36.064	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 10:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2462MHz by 802.11n20 Chain 1	



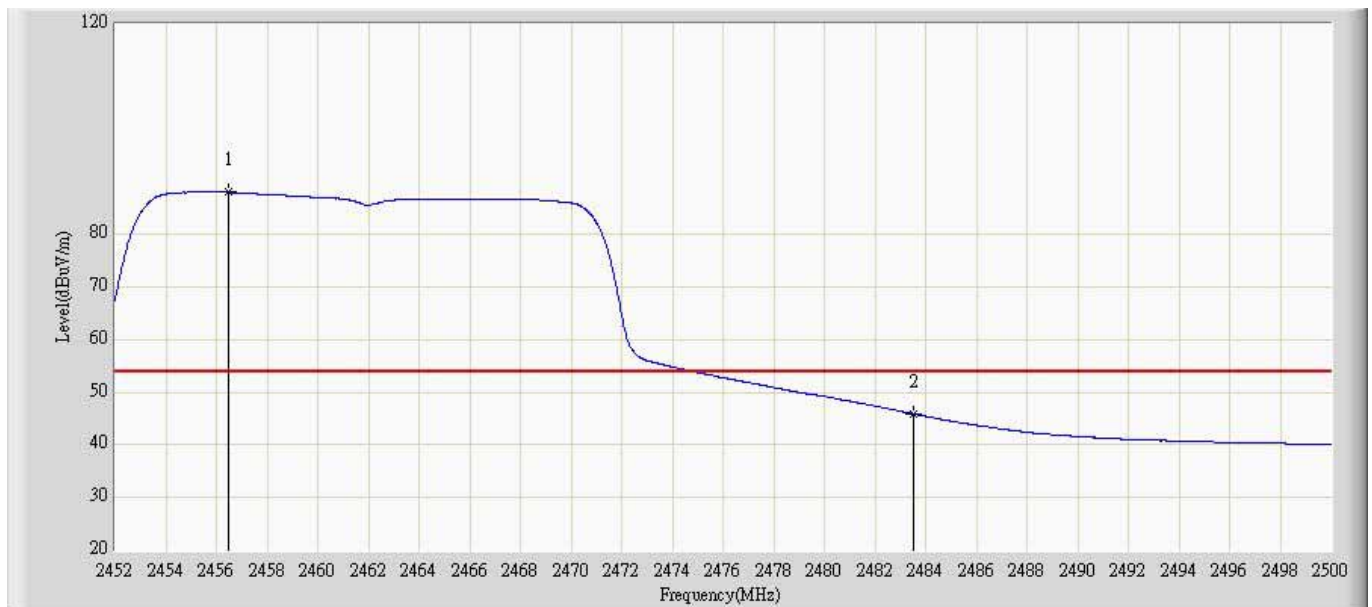
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2466.904	91.468	55.485	N/A	N/A	35.984	AV
2			2483.500	50.426	14.370	-3.574	54.000	36.055	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 10:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2462MHz by 802.11n20 Chain 1	



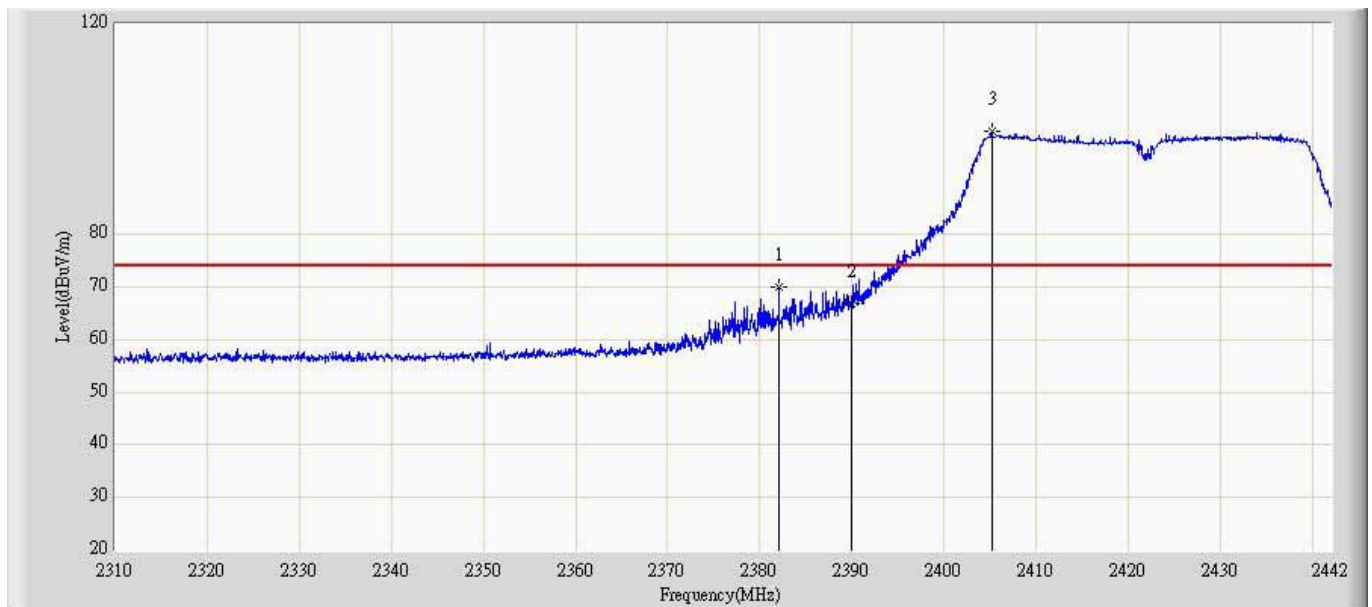
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2456.848	98.489	61.623	N/A	N/A	36.866	PK
2			2483.500	65.064	27.974	-8.936	74.000	37.089	PK
3			2483.656	69.579	32.488	-4.421	74.000	37.091	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 10:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2462MHz by 802.11n20 Chain 1	



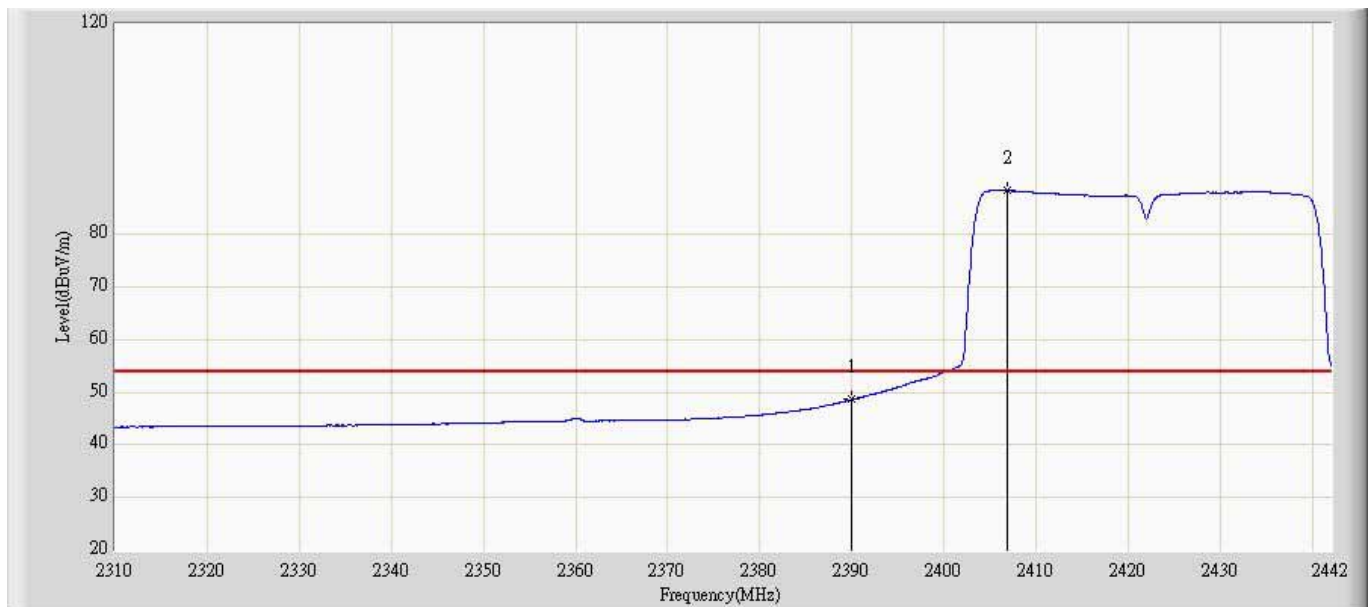
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2456.464	87.965	51.103	N/A	N/A	36.862	AV
2			2483.500	45.926	8.836	-8.074	54.000	37.089	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 10:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2422MHz by 802.11n40 Chain 1	



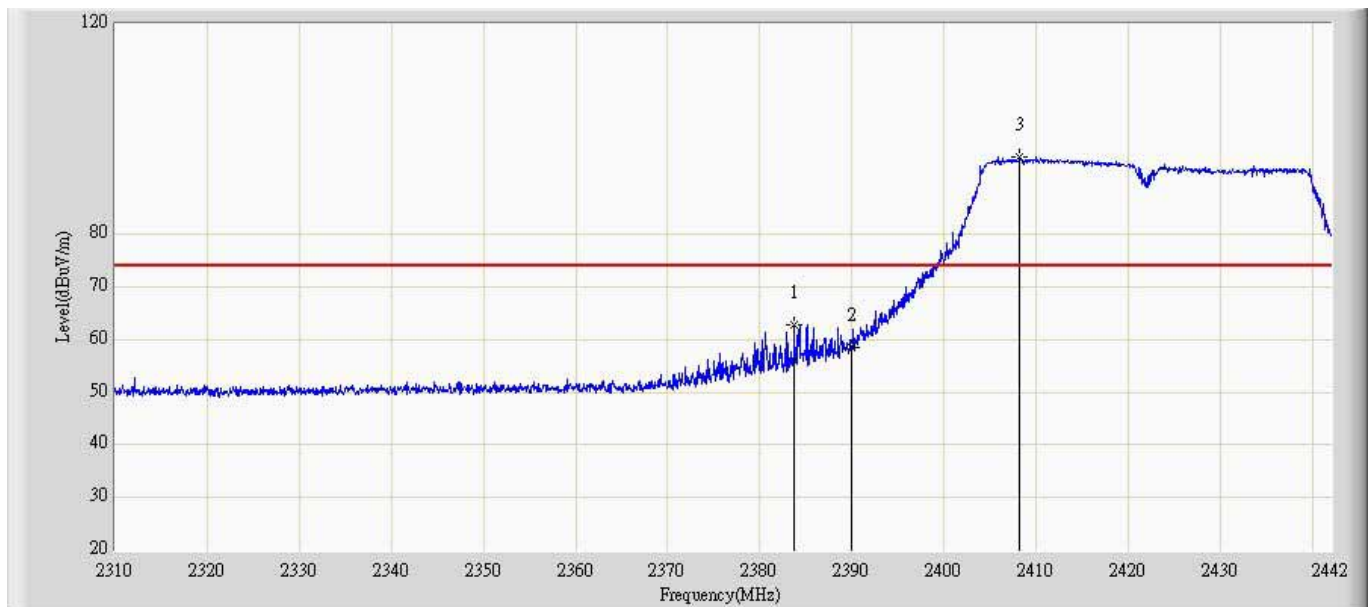
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2382.072	70.055	34.447	-3.945	74.000	35.608	PK
2			2390.000	66.960	31.319	-7.040	74.000	35.642	PK
3		*	2405.172	99.640	63.935	N/A	N/A	35.706	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 10:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2422MHz by 802.11n40 Chain 1	



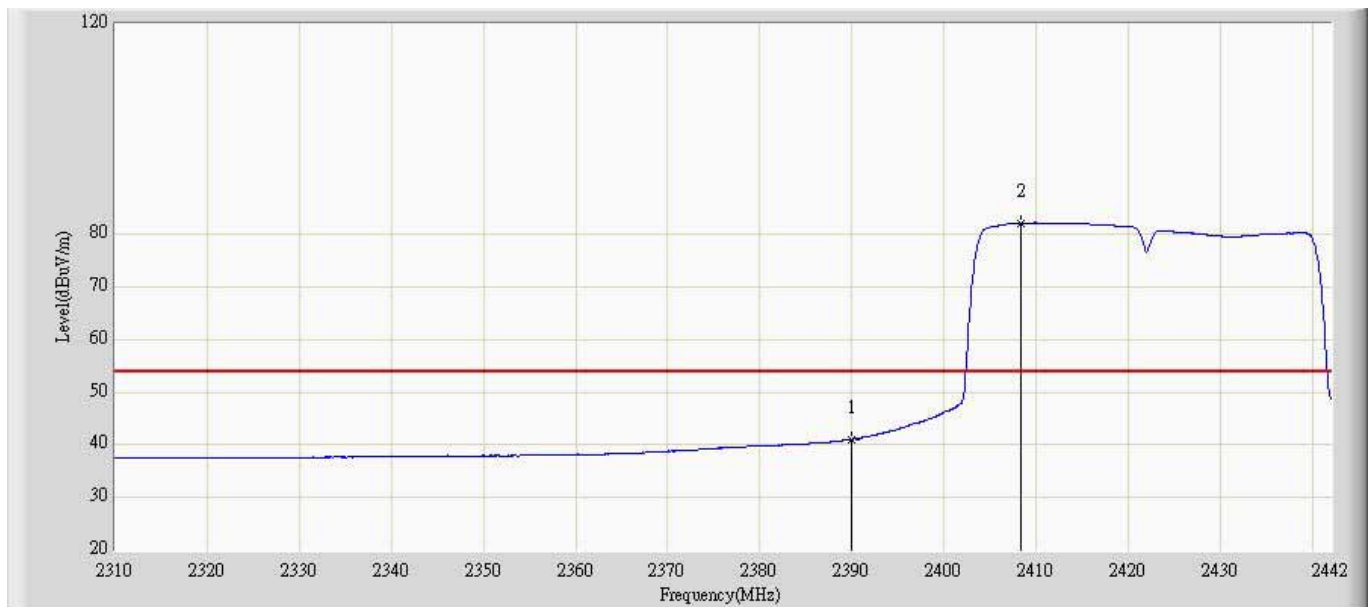
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	48.633	12.992	-5.367	54.000	35.642	AV
2		*	2406.822	88.315	52.603	N/A	N/A	35.713	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 10:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2422MHz by 802.11n40 Chain 1	



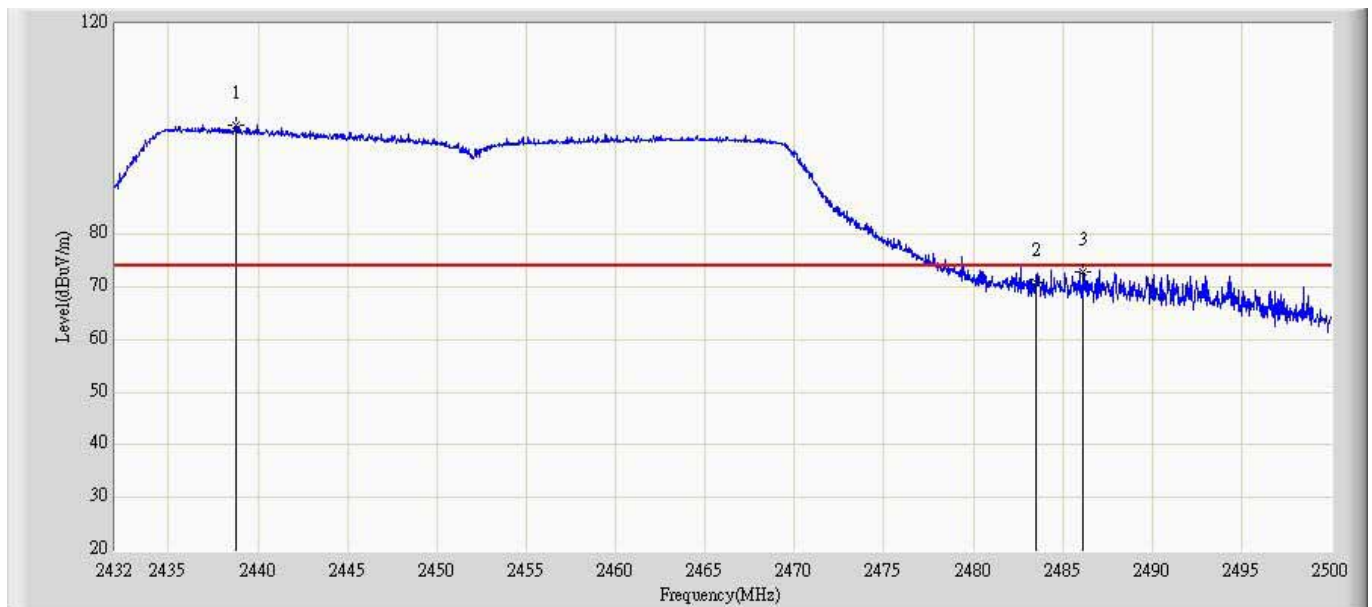
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2383.722	62.828	26.578	-11.172	74.000	36.250	PK
2			2390.000	58.410	22.109	-15.590	74.000	36.302	PK
3		*	2408.208	94.579	58.128	N/A	N/A	36.451	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 10:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2422MHz by 802.11n40 Chain 1	



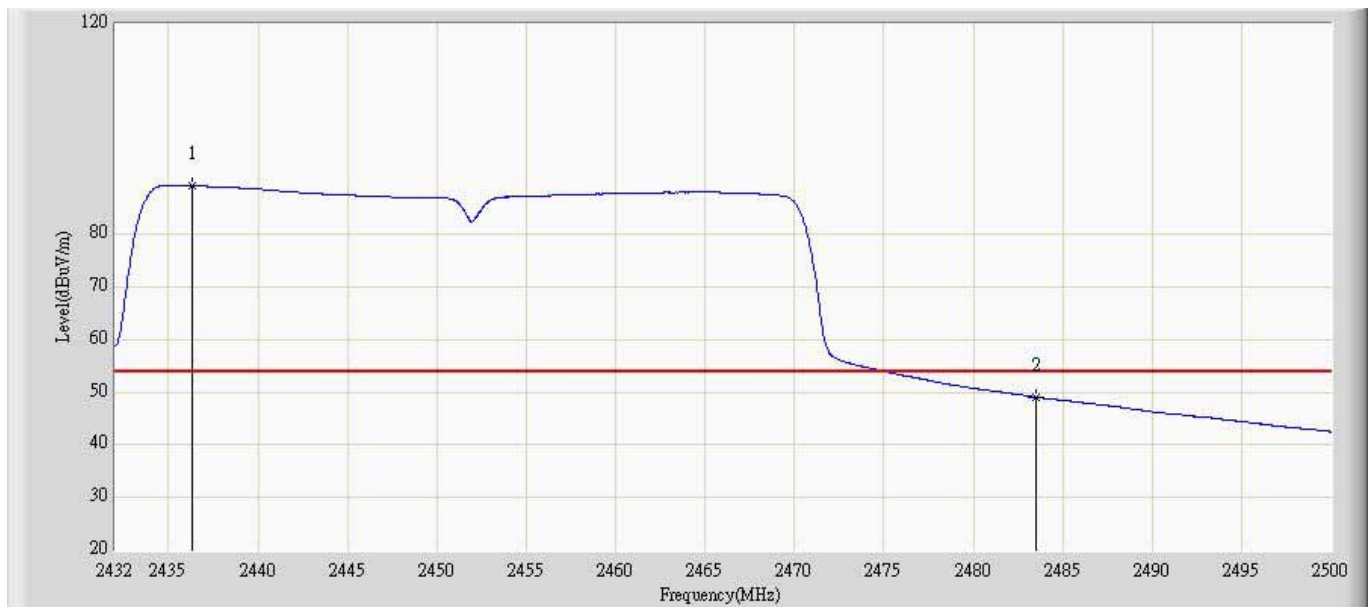
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	41.096	4.795	-12.904	54.000	36.302	AV
2		*	2408.274	82.052	45.600	N/A	N/A	36.451	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 10:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2452MHz by 802.11n40 Chain 1	



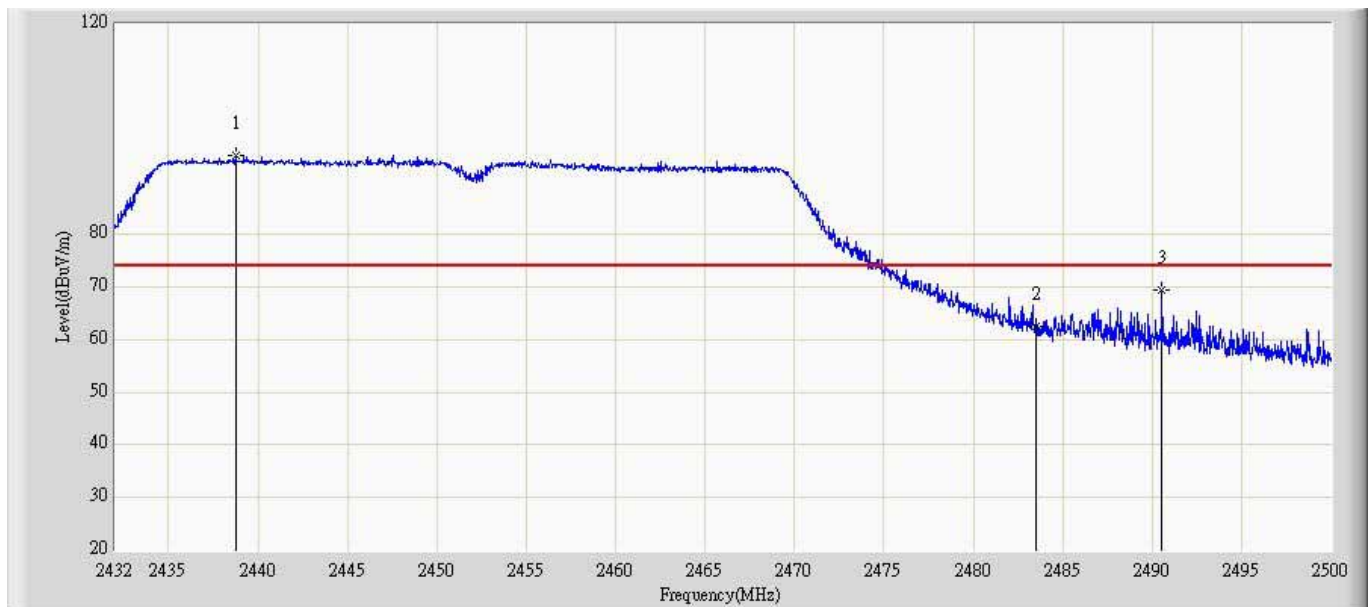
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2438.732	100.751	64.895	N/A	N/A	35.856	PK
2			2483.500	70.882	34.826	-3.118	74.000	36.055	PK
3			2486.162	72.981	36.912	-1.019	74.000	36.068	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 10:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2452MHz by 802.11n40 Chain 1	



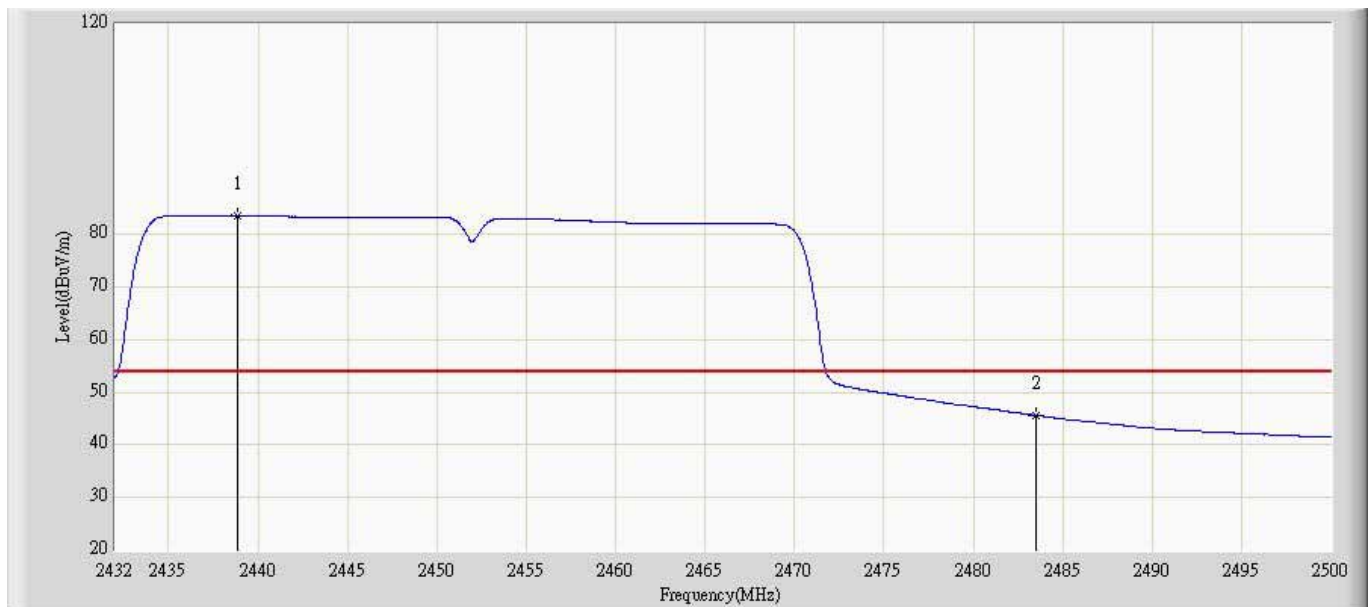
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2436.284	89.214	53.368	N/A	N/A	35.846	AV
2			2483.500	49.082	13.026	-4.918	54.000	36.055	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 10:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2452MHz by 802.11n40 Chain 1	



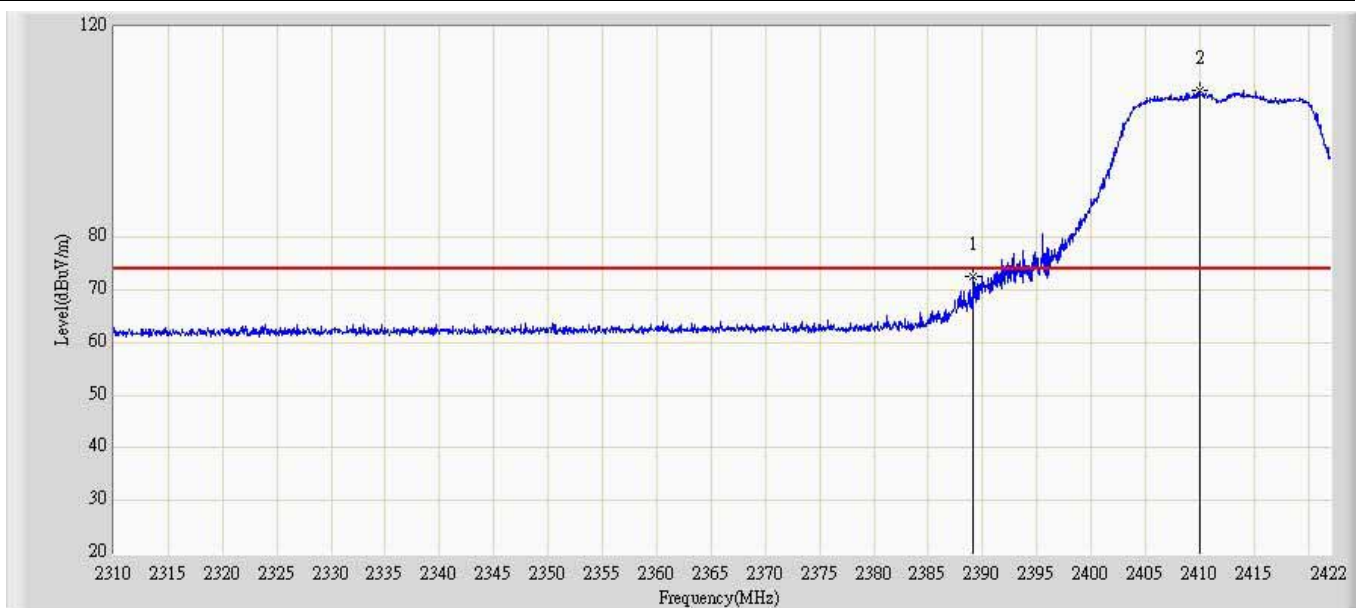
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2438.732	94.905	58.194	N/A	N/A	36.710	PK
2			2483.500	62.585	25.495	-11.415	74.000	37.089	PK
3			2490.548	69.453	32.301	-4.547	74.000	37.152	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 10:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2452MHz by 802.11n40 Chain 1	



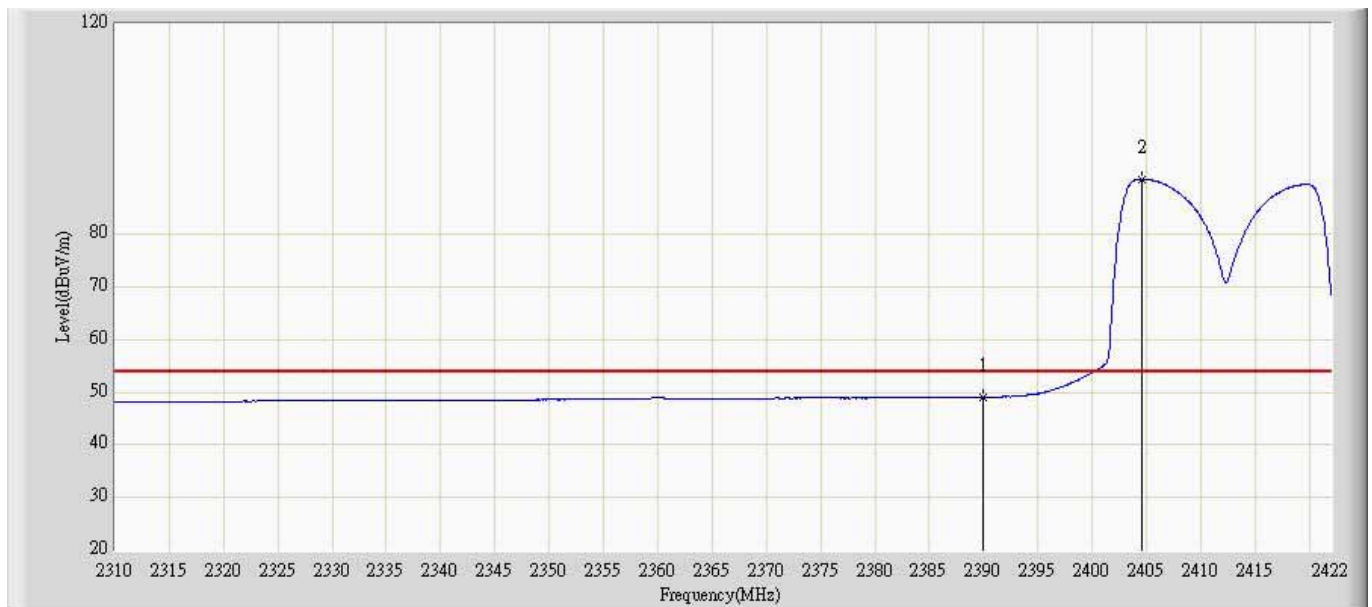
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2438.834	83.580	46.868	N/A	N/A	36.711	AV
2			2483.500	45.598	8.508	-8.402	54.000	37.089	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 14:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2412MHz by 802.11n20 Chain 0+1	



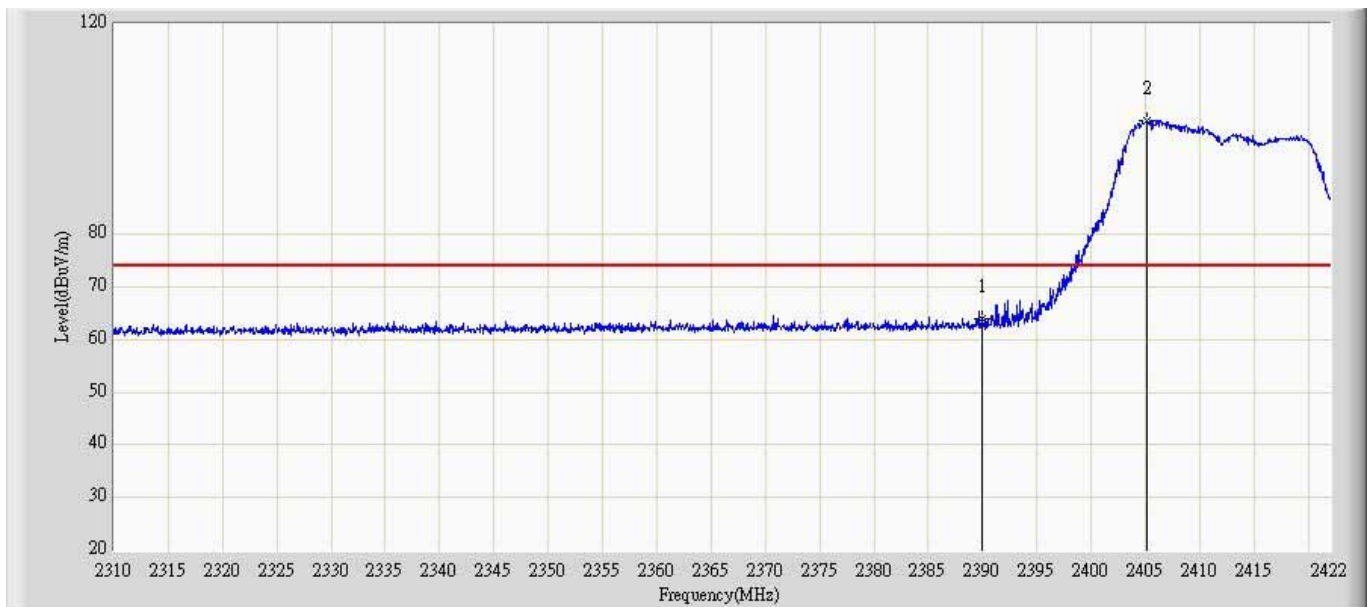
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2389.128	72.613	36.975	-1.387	74.000	35.638	PK
2		*	2409.960	107.840	72.114	N/A	N/A	35.725	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 14:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2412MHz by 802.11n20 Chain 0+1	



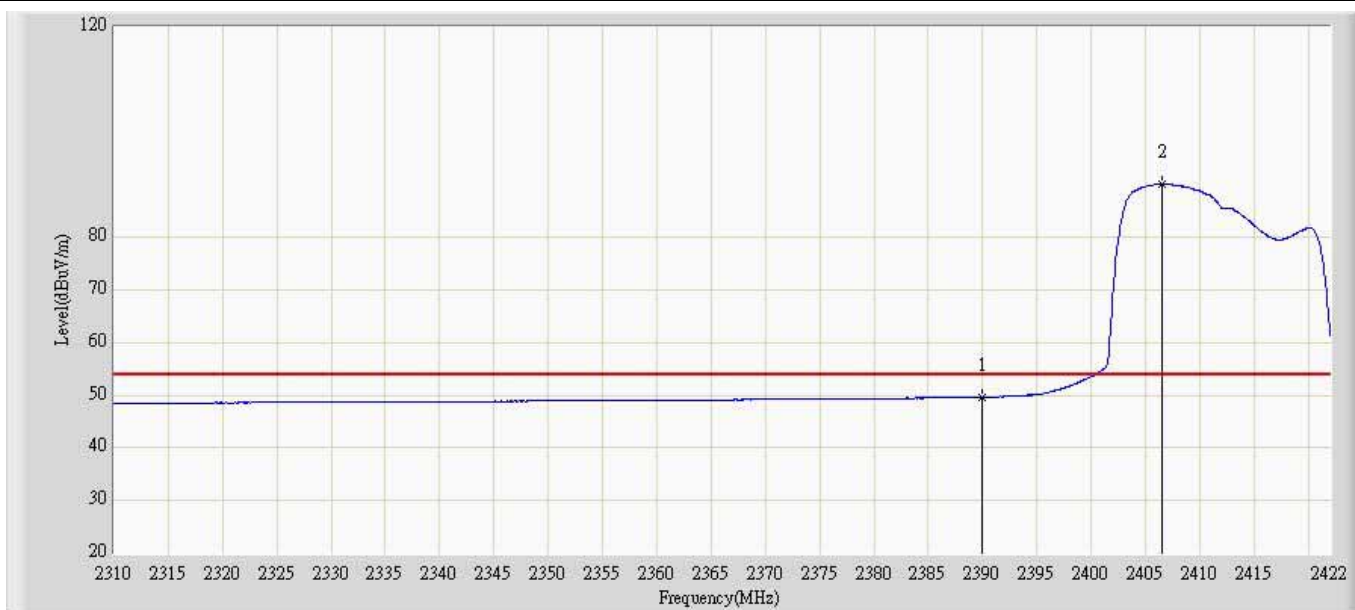
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	49.088	13.447	-4.912	54.000	35.642	AV
2		*	2404.528	90.449	54.746	N/A	N/A	35.702	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 14:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2412MHz by 802.11n20 Chain 0+1	



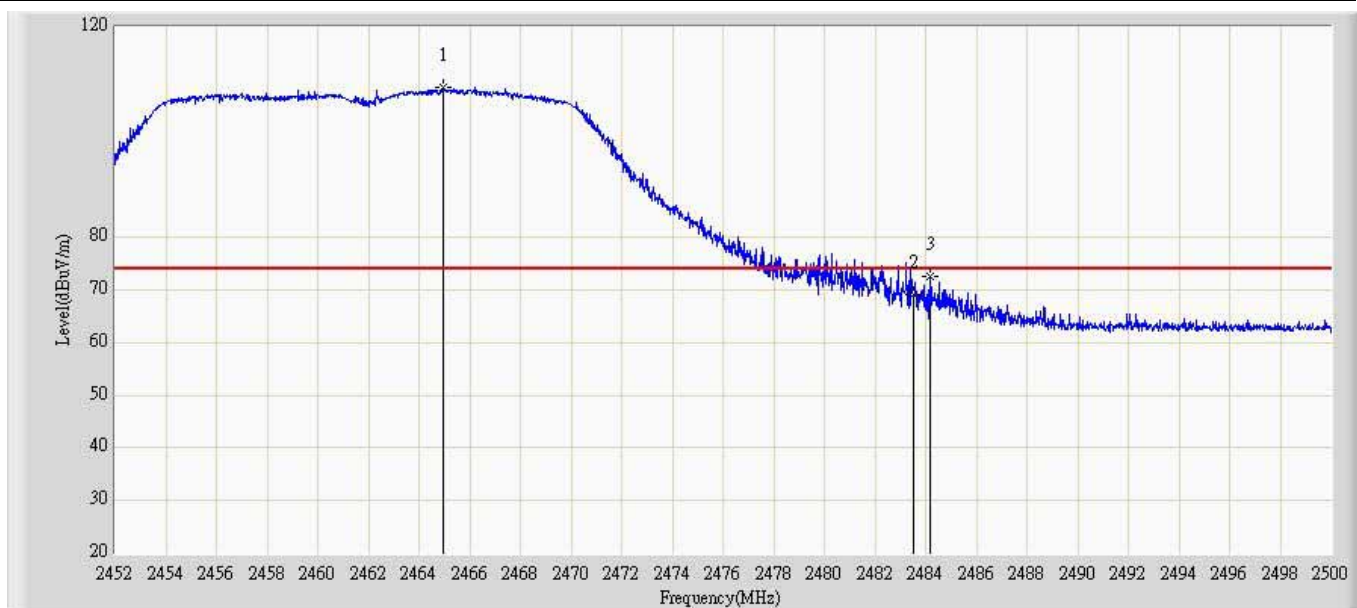
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	63.856	27.555	-10.144	74.000	36.302	PK
2		*	2405.088	101.540	65.115	N/A	N/A	36.426	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 14:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2412MHz by 802.11n20 Chain 0+1	



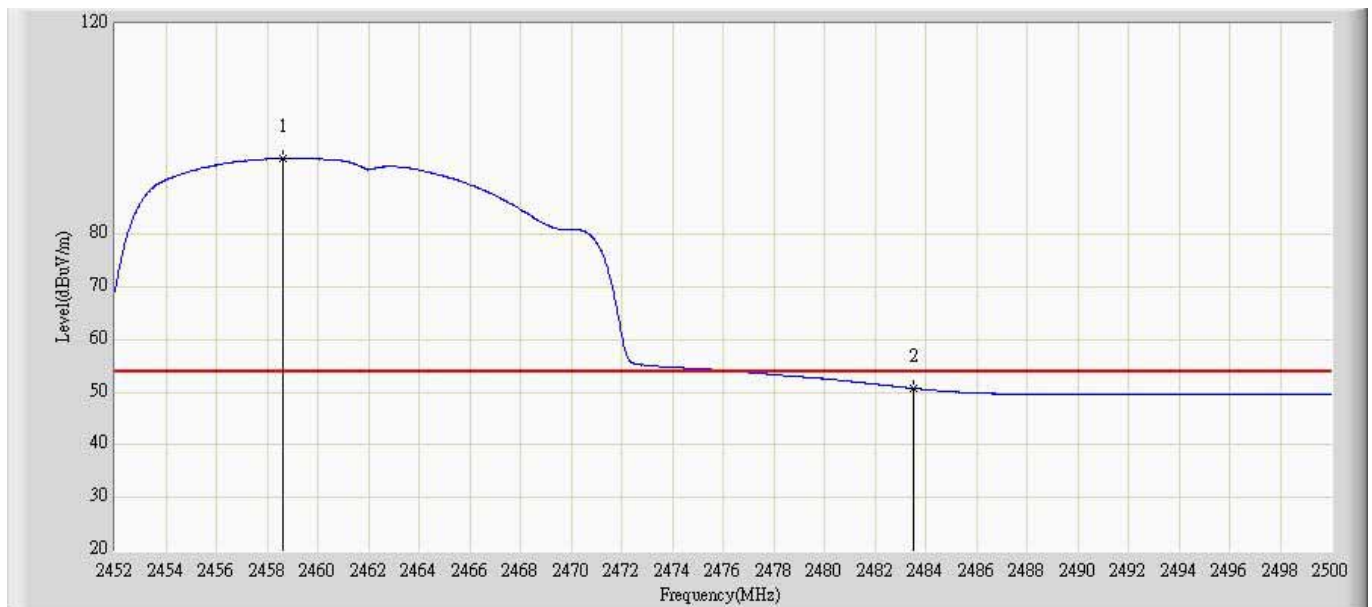
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	49.654	13.353	-4.346	54.000	36.302	AV
2		*	2406.600	90.057	53.619	N/A	N/A	36.437	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 14:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2462MHz by 802.11n20 Chain 0+1	



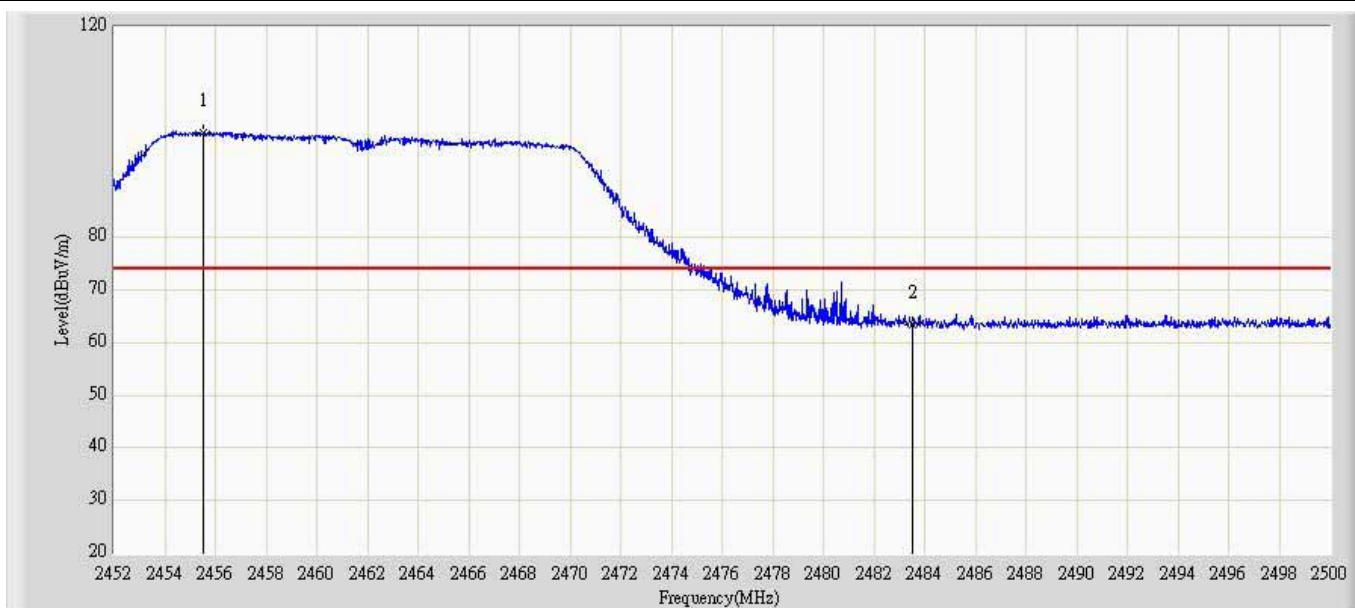
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2464.936	108.524	72.549	N/A	N/A	35.976	PK
2			2483.500	69.259	33.203	-4.741	74.000	36.055	PK
3			2484.160	72.683	36.624	-1.317	74.000	36.059	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 14:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2462MHz by 802.11n20 Chain 0+1	



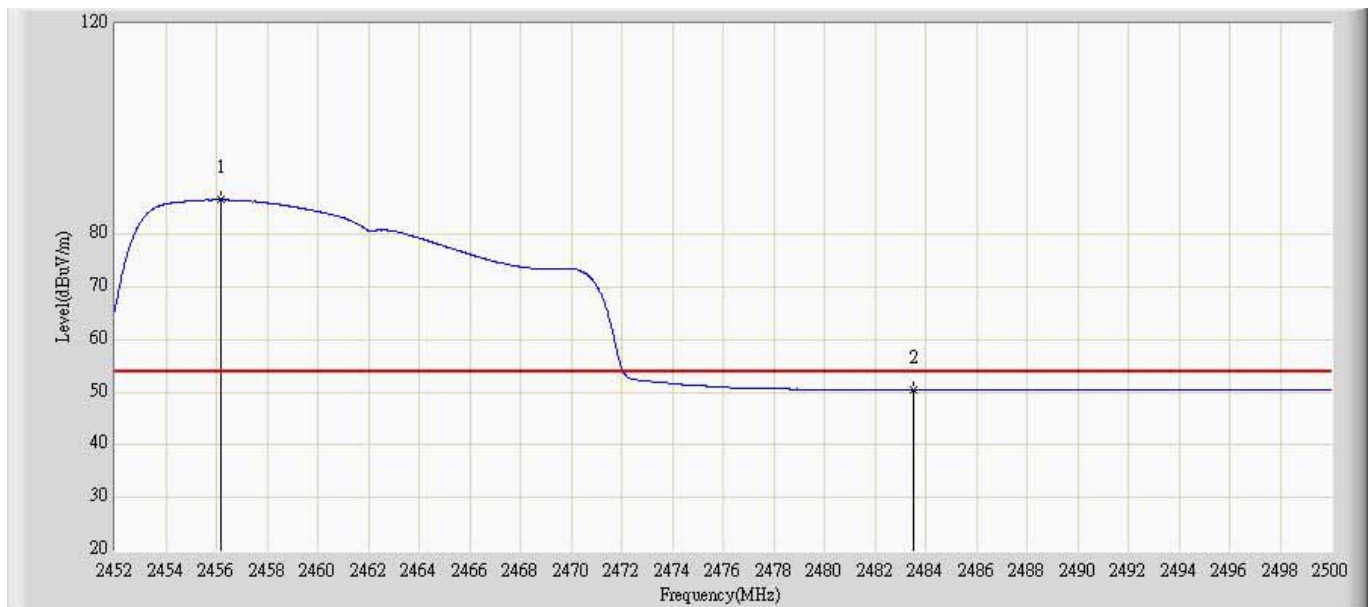
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2458.624	94.419	58.472	N/A	N/A	35.947	AV
2			2483.500	50.762	14.706	-3.238	54.000	36.055	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 14:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2462MHz by 802.11n20 Chain 0+1	



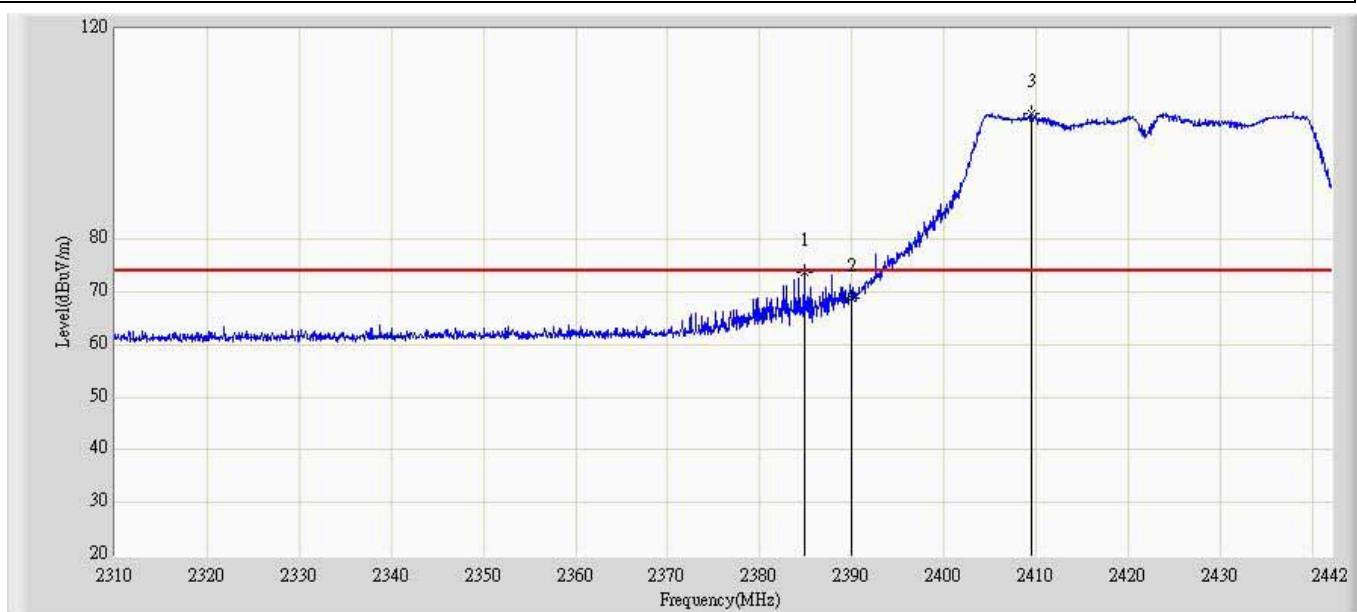
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2455.504	99.969	63.115	N/A	N/A	36.854	PK
2			2483.500	63.470	26.380	-10.530	74.000	37.089	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 14:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 2462MHz by 802.11n20 Chain 0+1	



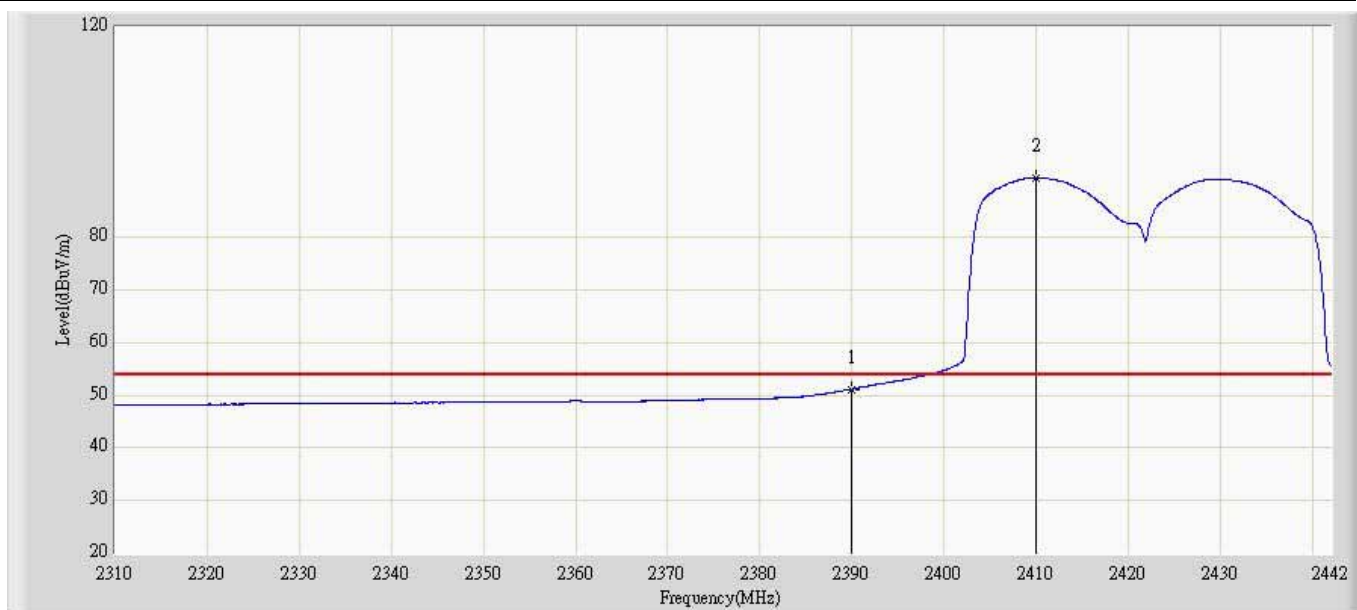
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2456.152	86.547	49.687	N/A	N/A	36.860	AV
2			2483.500	50.442	13.352	-3.558	54.000	37.089	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 14:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2422MHz by 802.11n40 Chain 0+1	



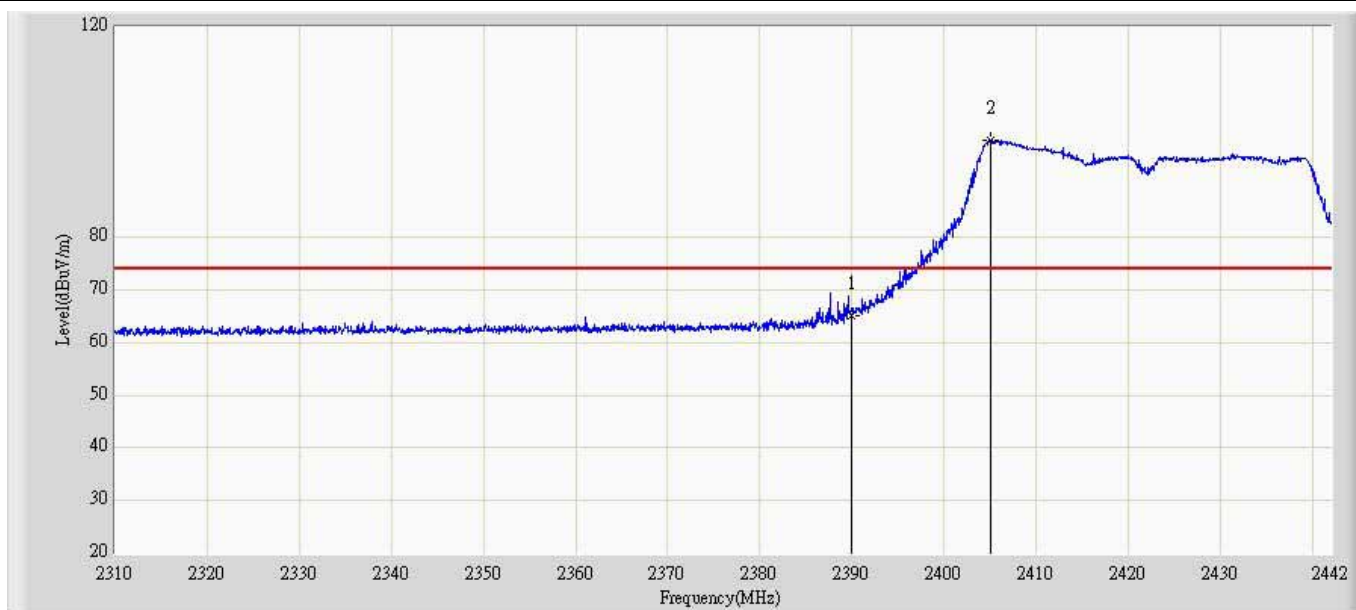
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2384.844	73.733	38.113	-0.267	74.000	35.620	PK
2			2390.000	68.906	33.265	-5.094	74.000	35.642	PK
3		*	2409.528	103.882	68.158	N/A	N/A	35.724	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 14:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2422MHz by 802.11n40 Chain 0+1	



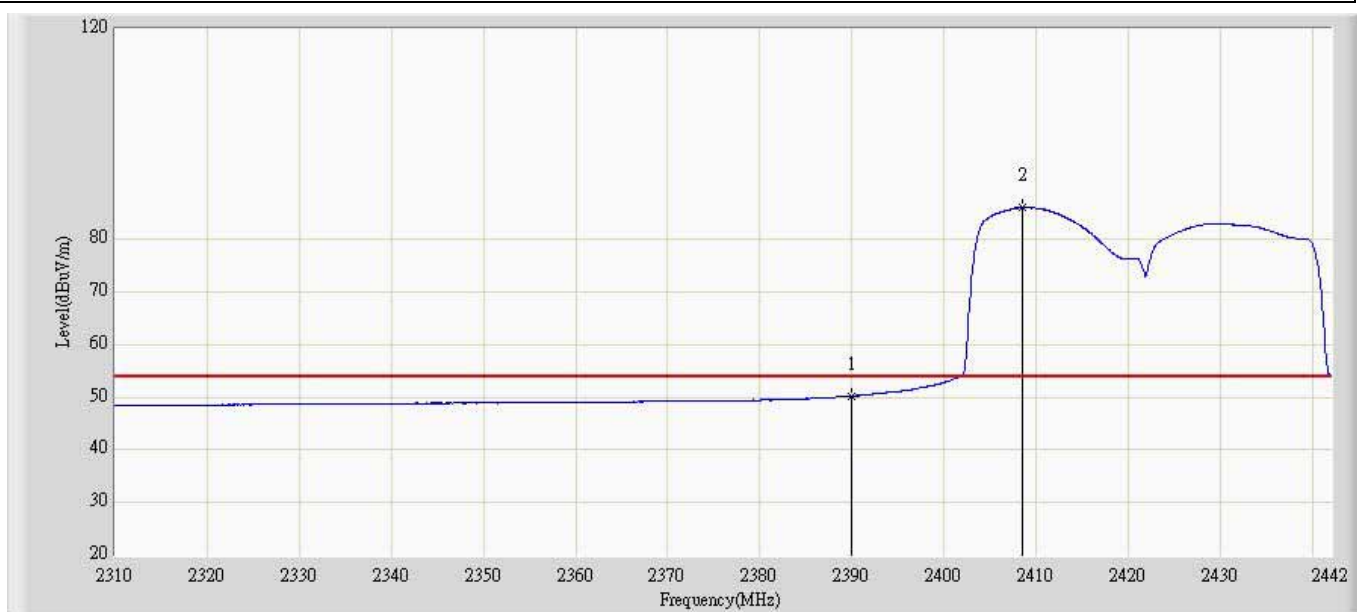
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	51.133	15.492	-2.867	54.000	35.642	AV
2		*	2409.924	91.297	55.572	N/A	N/A	35.725	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 14:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2422MHz by 802.11n40 Chain 0+1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	65.097	28.796	-8.903	74.000	36.302	PK
2		*	2405.040	98.439	62.014	N/A	N/A	36.424	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 14:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2422MHz by 802.11n40 Chain 0+1	



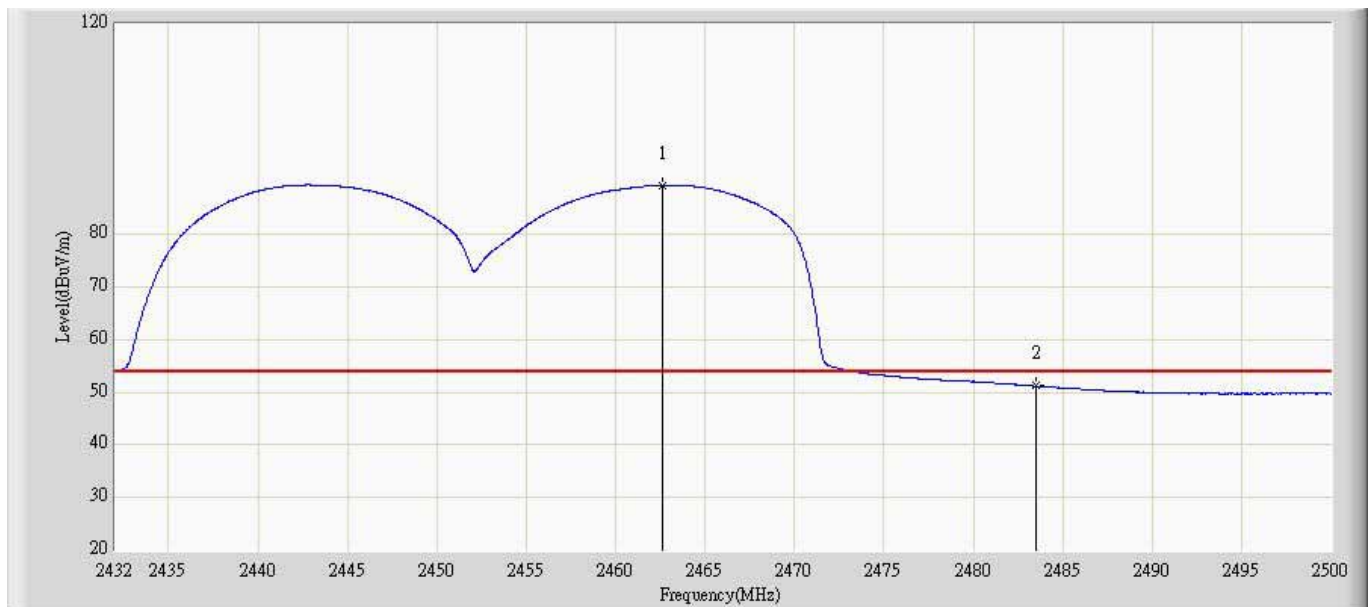
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	50.239	13.938	-3.761	54.000	36.302	AV
2		*	2408.538	86.007	49.553	N/A	N/A	36.454	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 14:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2452MHz by 802.11n40 Chain 0+1	



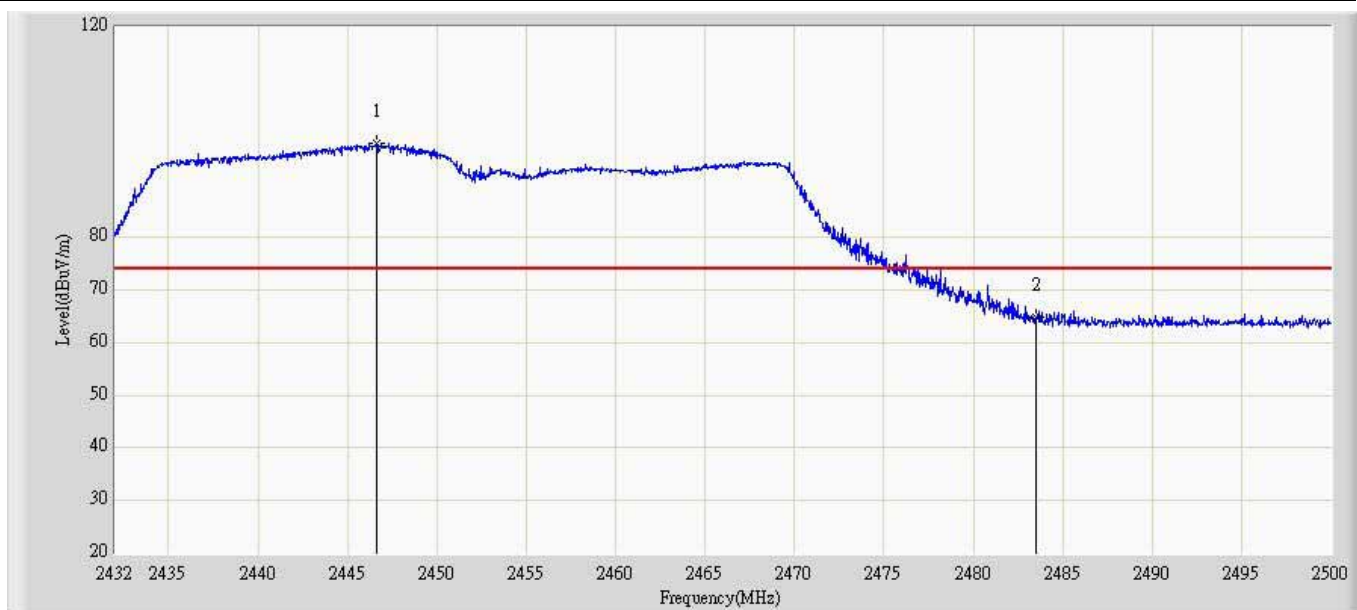
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2435.570	104.022	68.179	N/A	N/A	35.842	PK
2			2483.500	68.567	32.511	-5.433	74.000	36.055	PK
3			2485.516	72.716	36.651	-1.284	74.000	36.066	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 14:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2452MHz by 802.11n40 Chain 0+1	



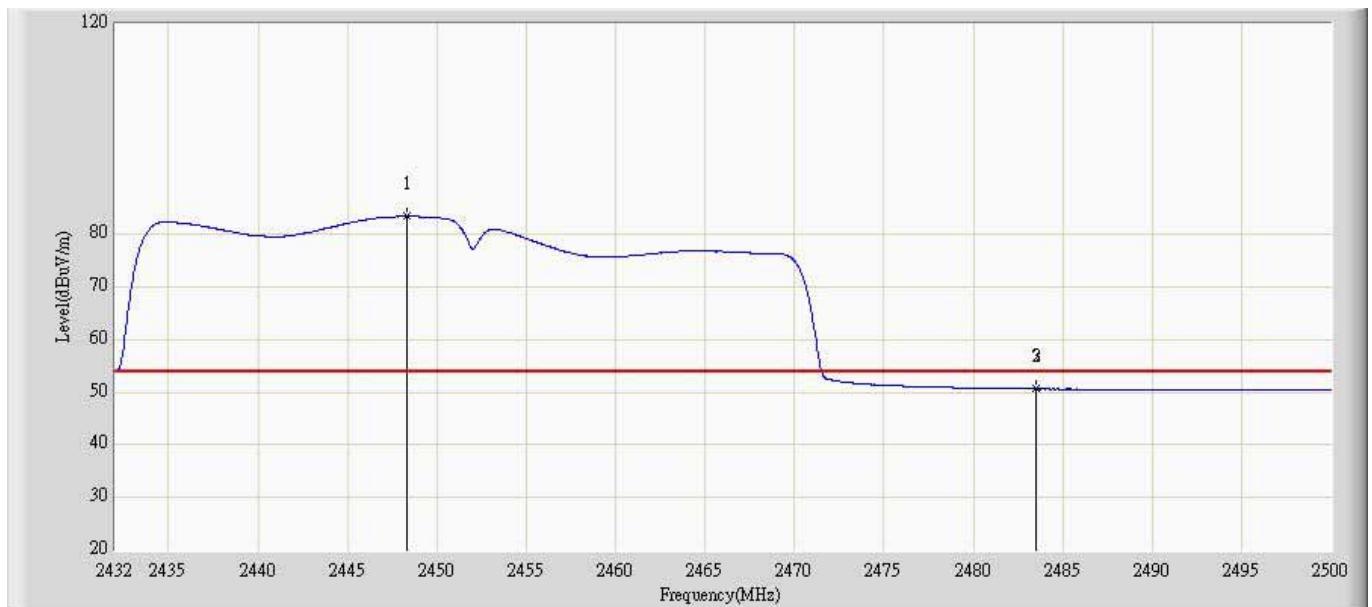
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2462.634	89.306	53.340	N/A	N/A	35.965	AV
2			2483.500	51.179	15.123	-2.821	54.000	36.055	AV

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 14:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2452MHz by 802.11n40 Chain 0+1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2446.654	97.762	60.986	N/A	N/A	36.777	PK
2			2483.500	64.860	27.770	-9.140	74.000	37.089	PK

Engineer: Milo	
Site: AC5	Time: 2013/04/02 - 14:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 2452MHz by 802.11n40 Chain 0+1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2448.354	83.412	46.621	N/A	N/A	36.791	AV
2			2483.500	50.630	13.540	-3.370	54.000	37.089	AV
3			2483.500	50.630	13.540	-3.370	54.000	37.089	AV

7. Operation Frequency Range of 20dB Bandwidth

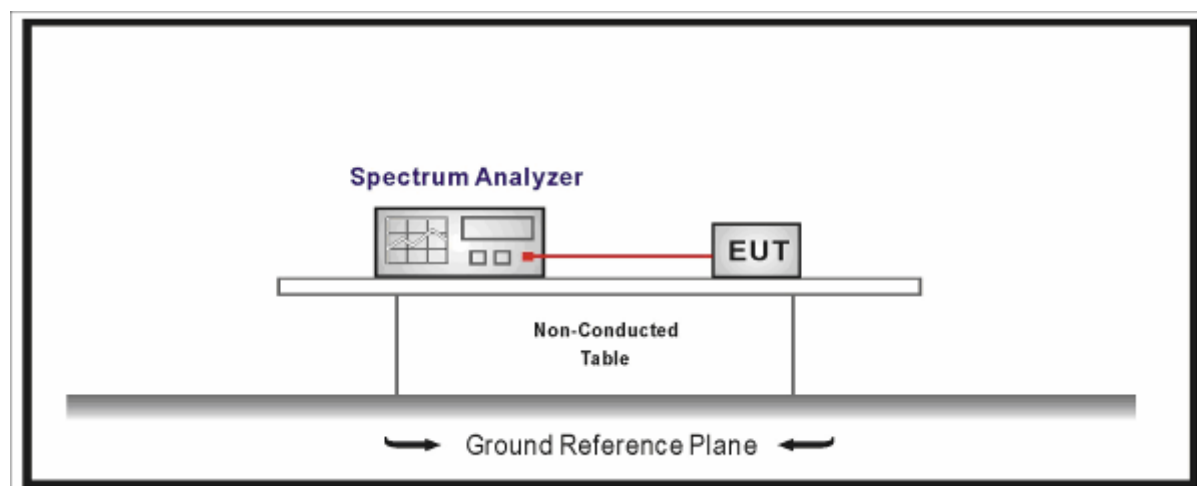
7.1. Test Equipment

Operation Frequency Range of 20dB Bandwidth / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2014.01.21
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2014.05.07

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 KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

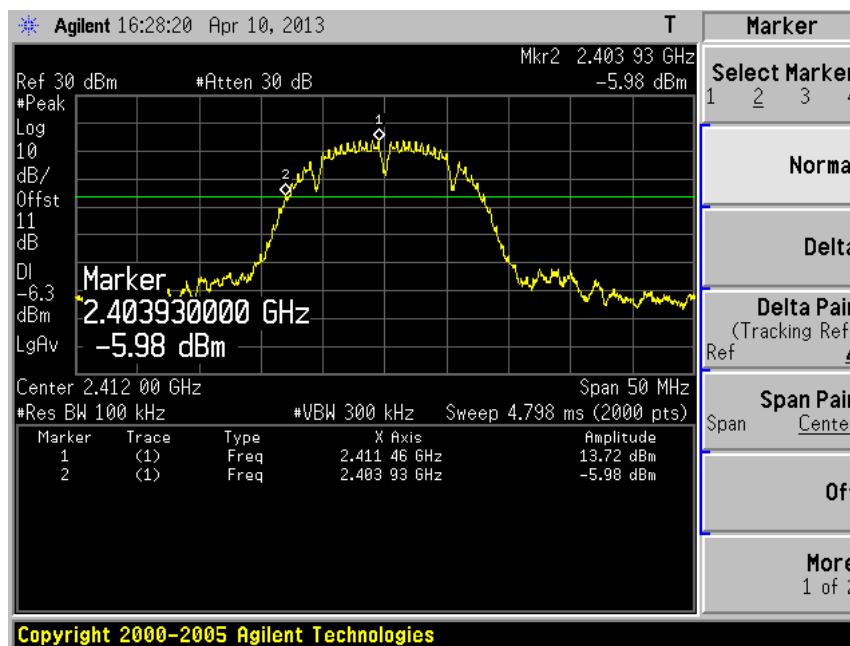
7.5. Uncertainty

The measurement uncertainty is defined as ± 1 kHz

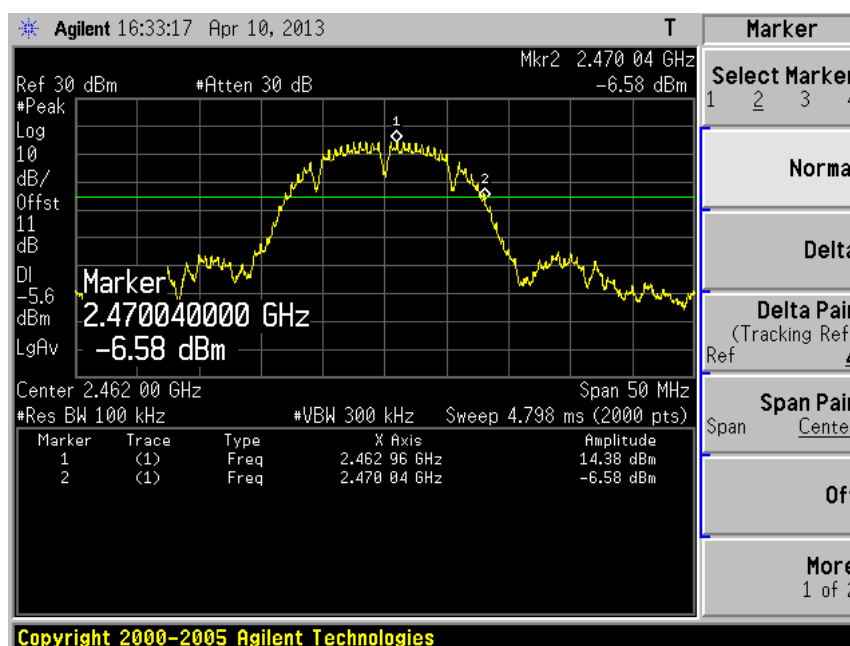
7.6. Test Result

Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 0)

Channel 01 (2412MHz)

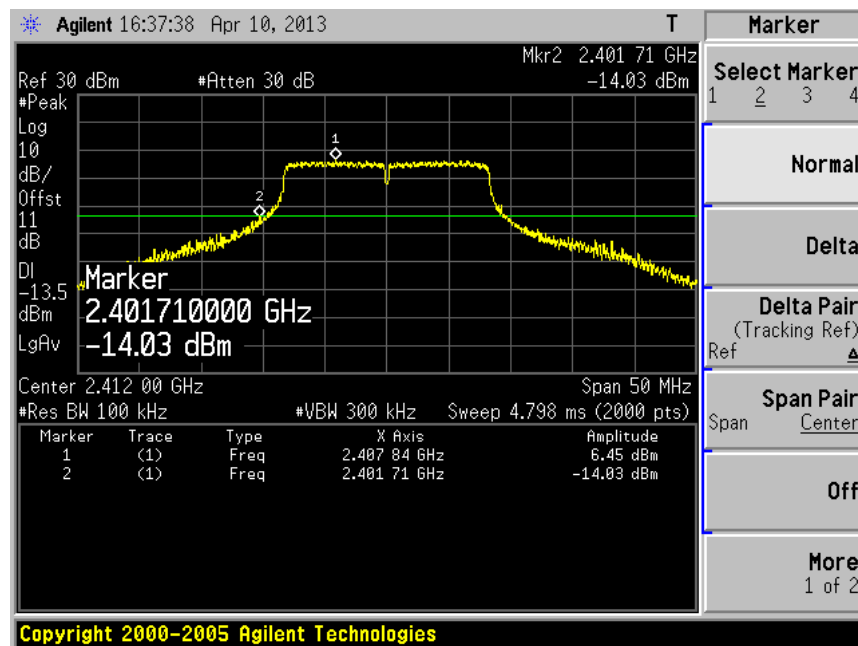


Channel 11 (2462MHz)

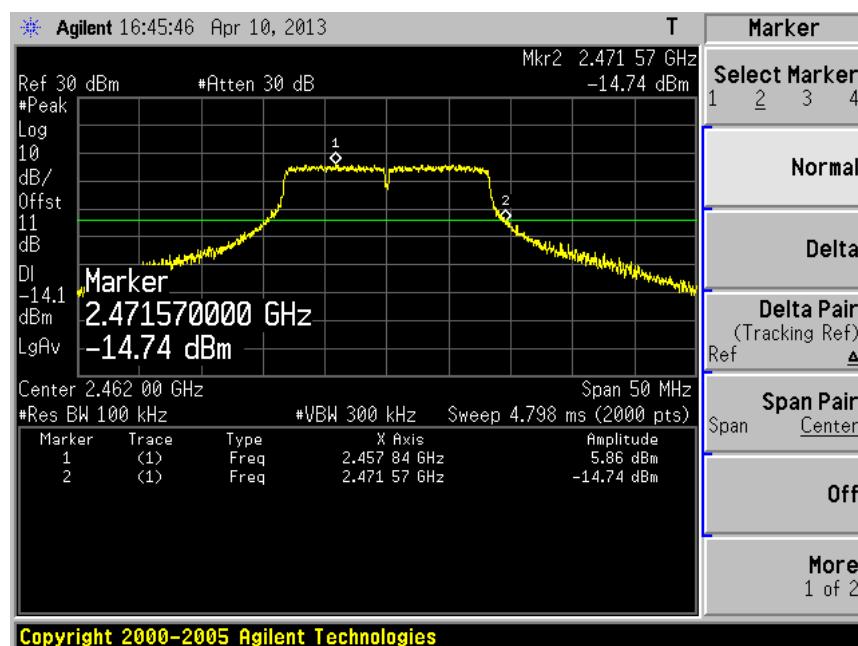


Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 0)

Channel 01 (2412MHz)

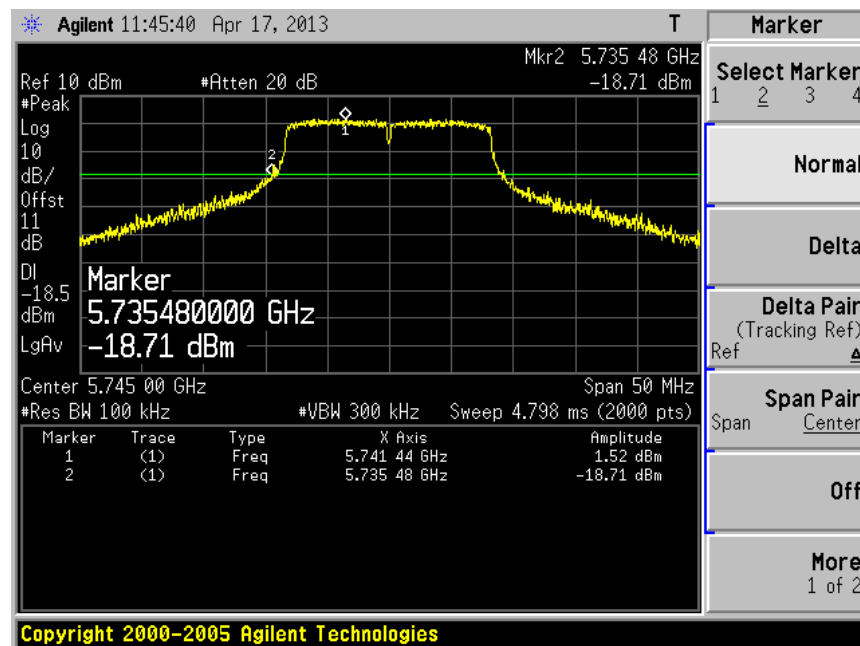


Channel 11 (2462MHz)

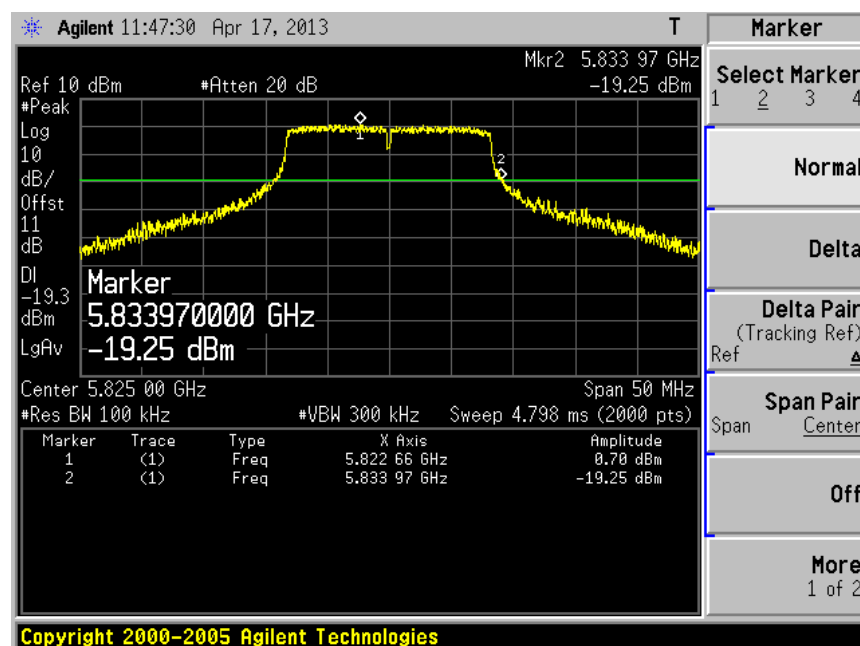


Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11a (Chain 0)

Channel 149 (5745MHz)

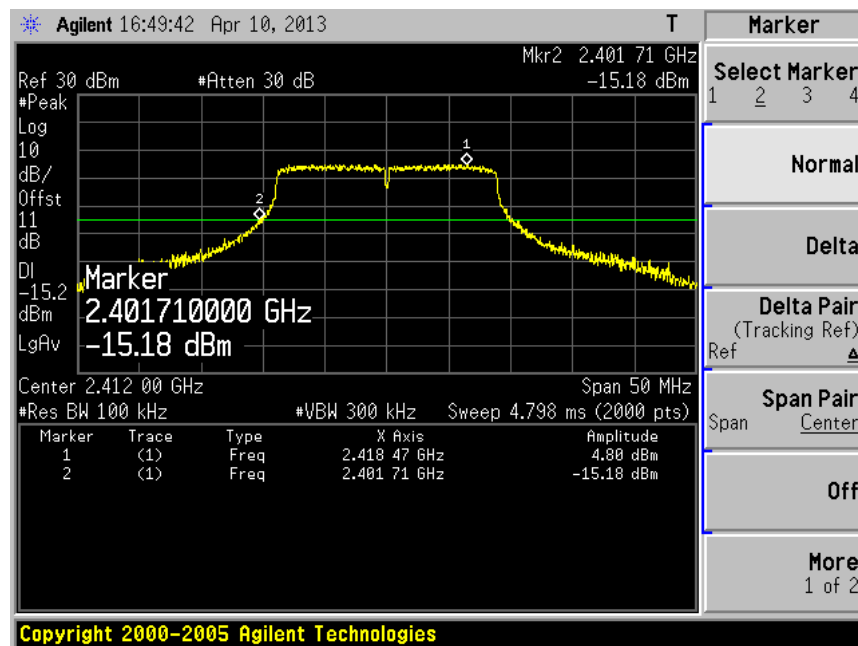


Channel 165 (5825MHz)

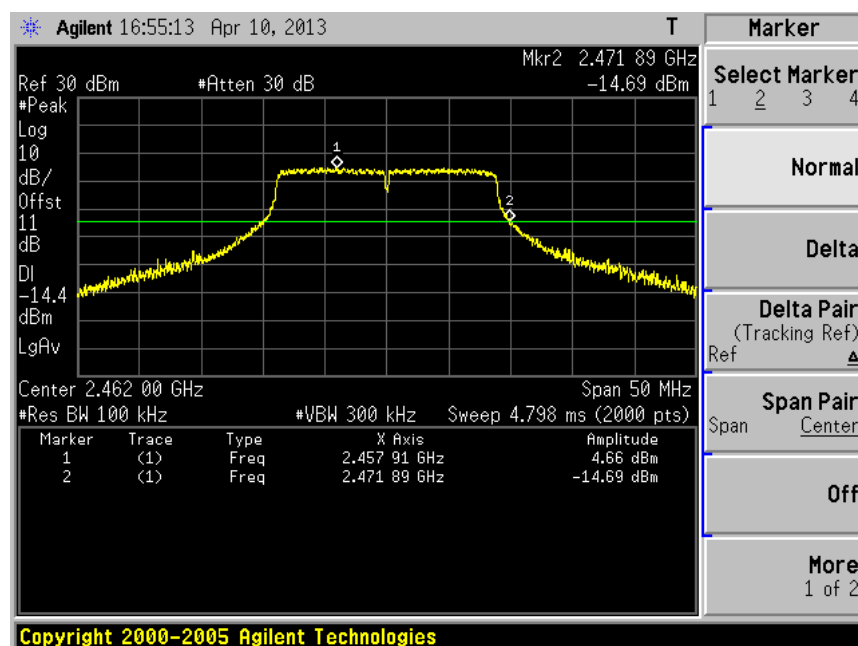


Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n (20MHz) (Chain 0)

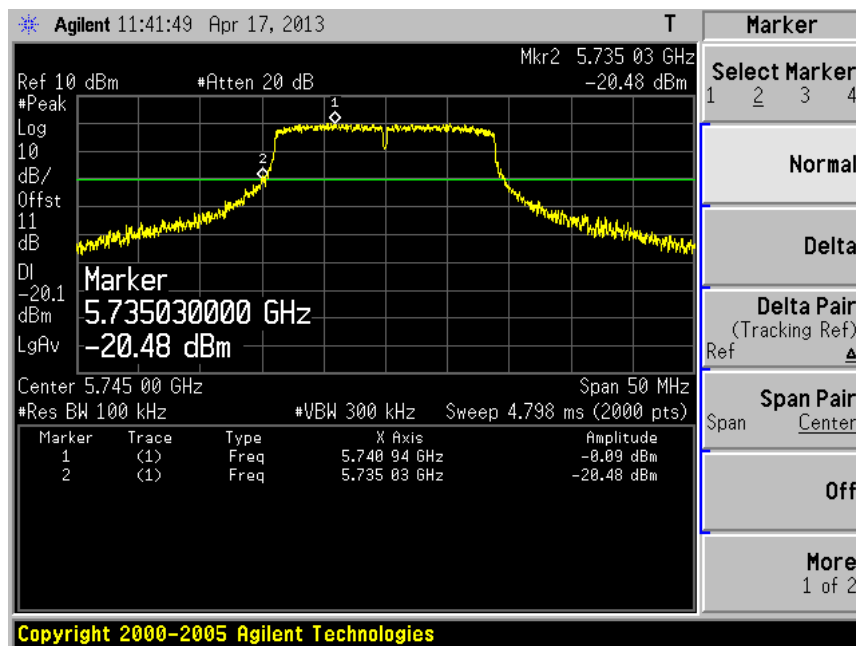
Channel 01 (2412MHz)



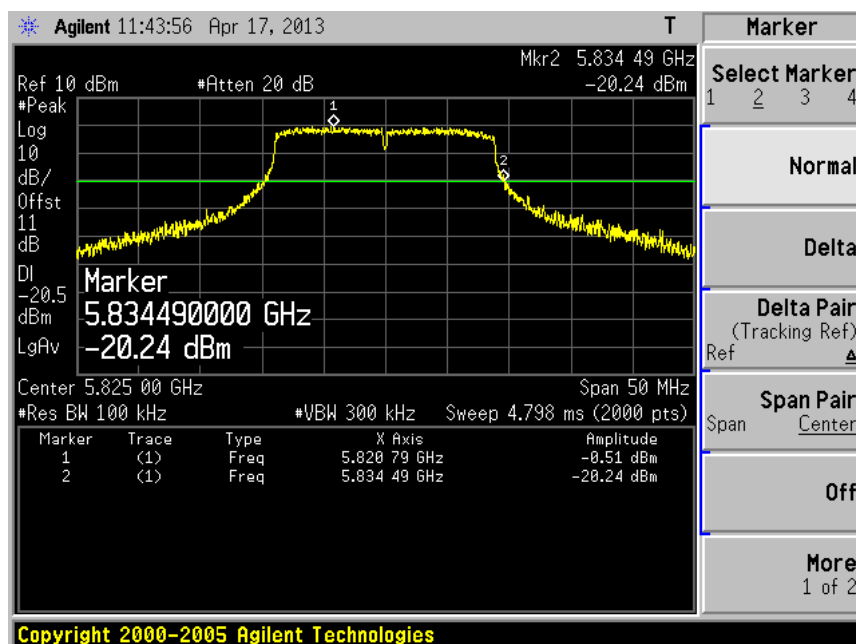
Channel 11 (2462MHz)



Channel 149 (5745MHz)

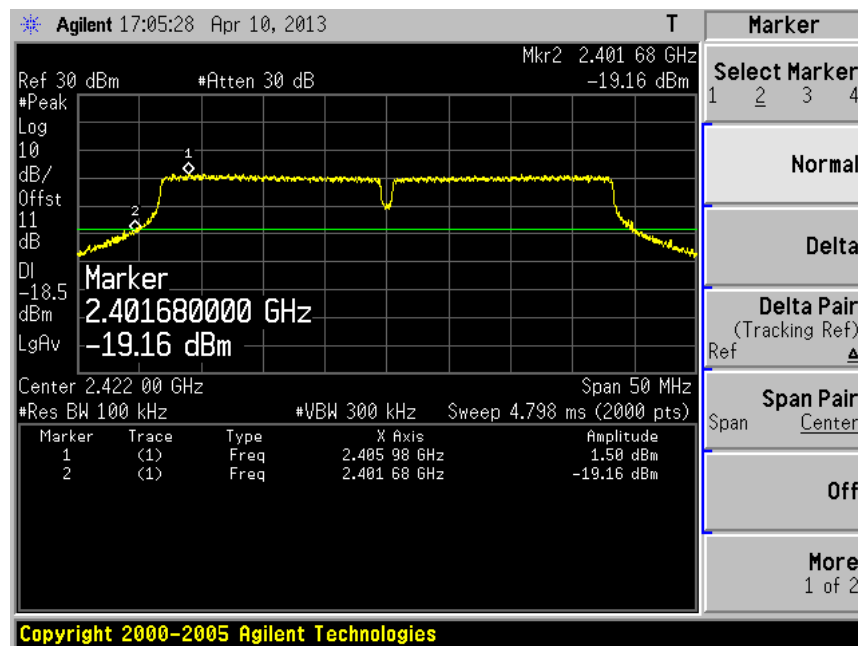


Channel 165 (5825MHz)

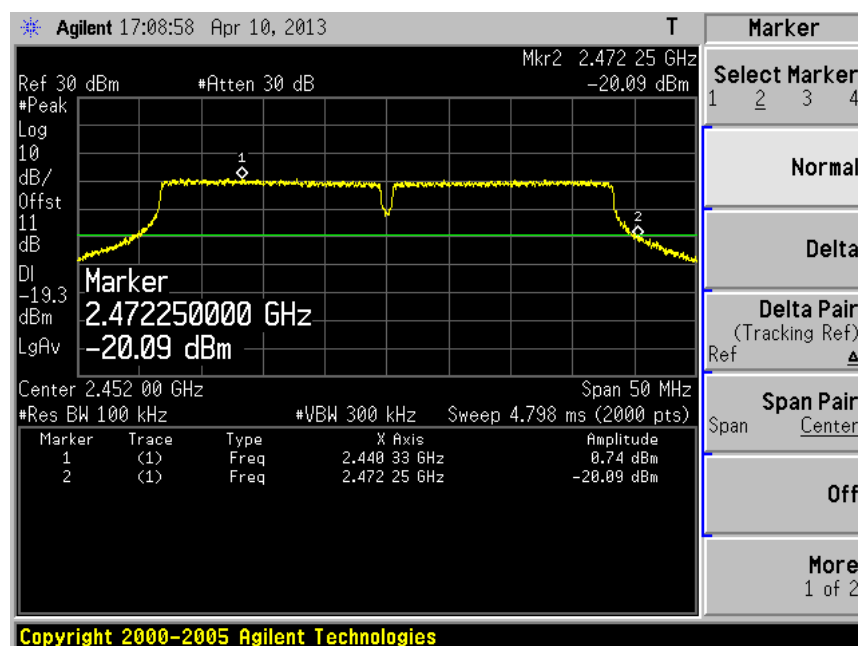


Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 5: Transmit by 802.11n (40MHz) (Chain 0)

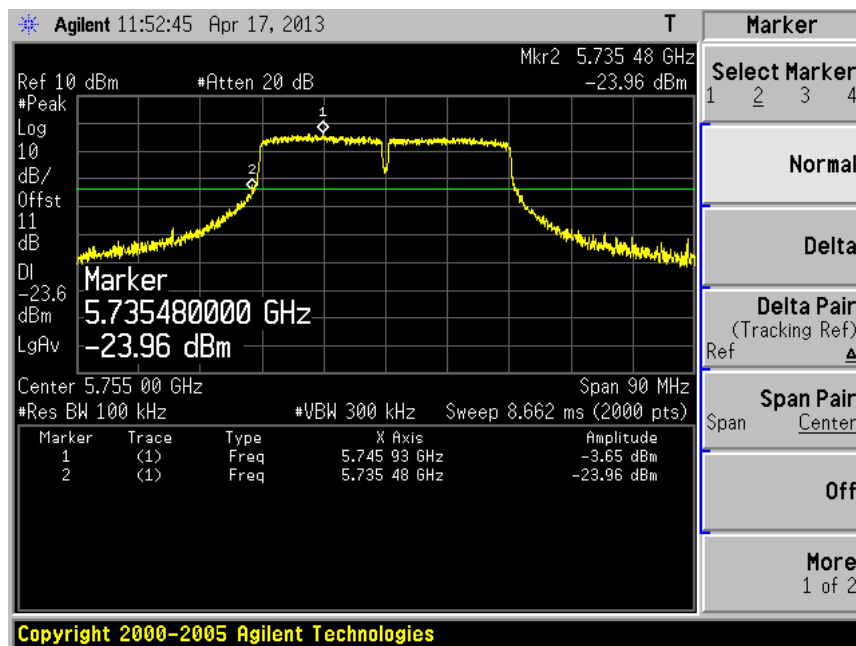
Channel 03 (2422MHz)



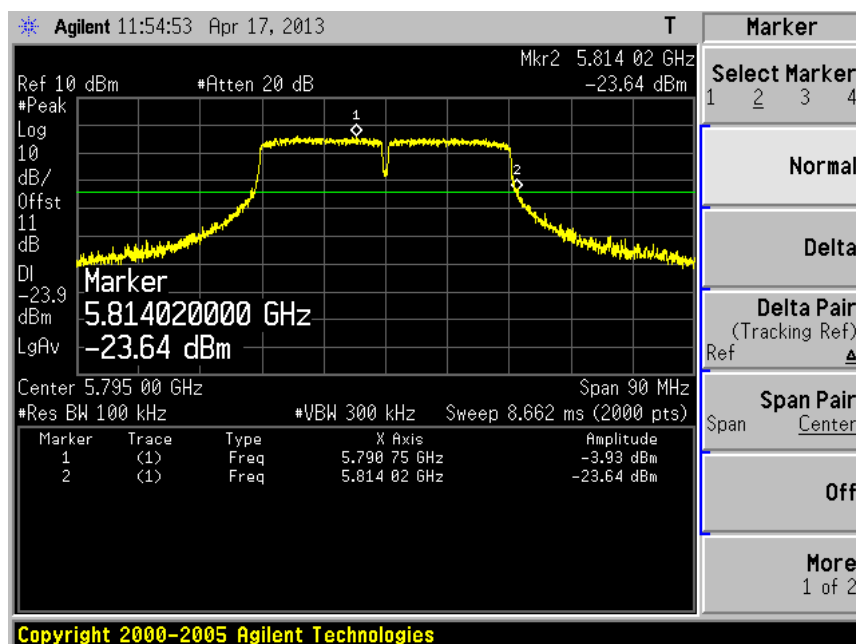
Channel 09 (2452MHz)



Channel 151 (5755MHz)

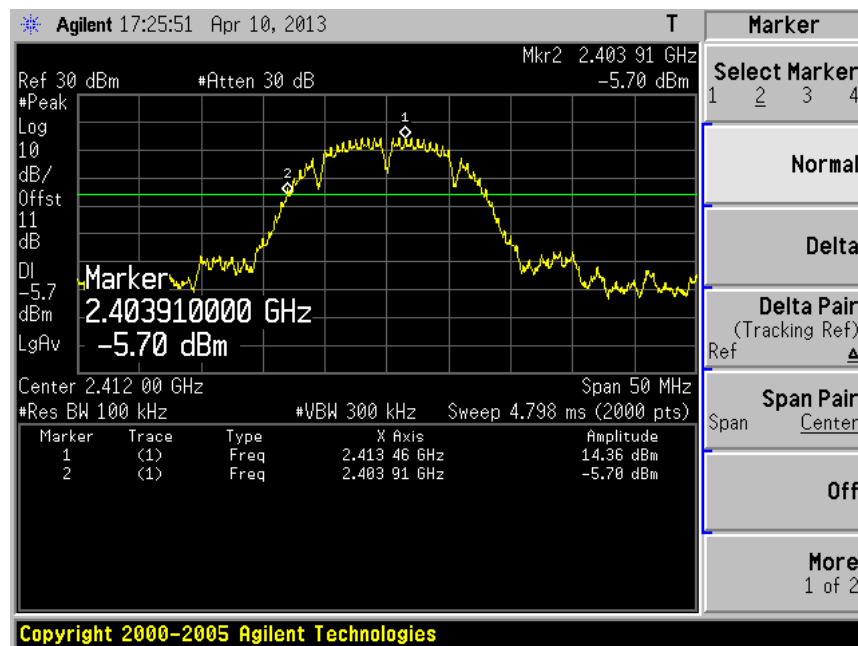


Channel 159 (5795MHz)

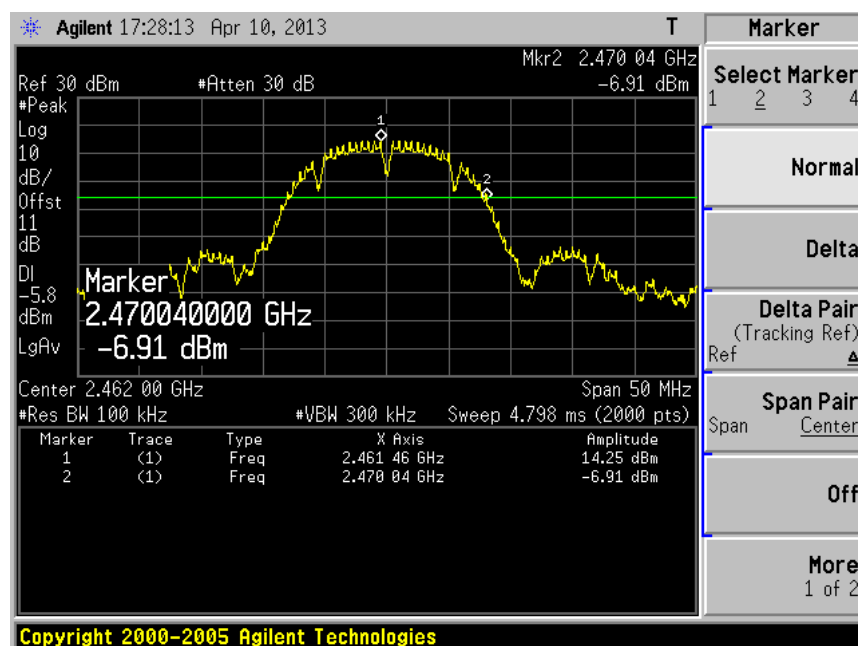


Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 1)

Channel 01 (2412MHz)

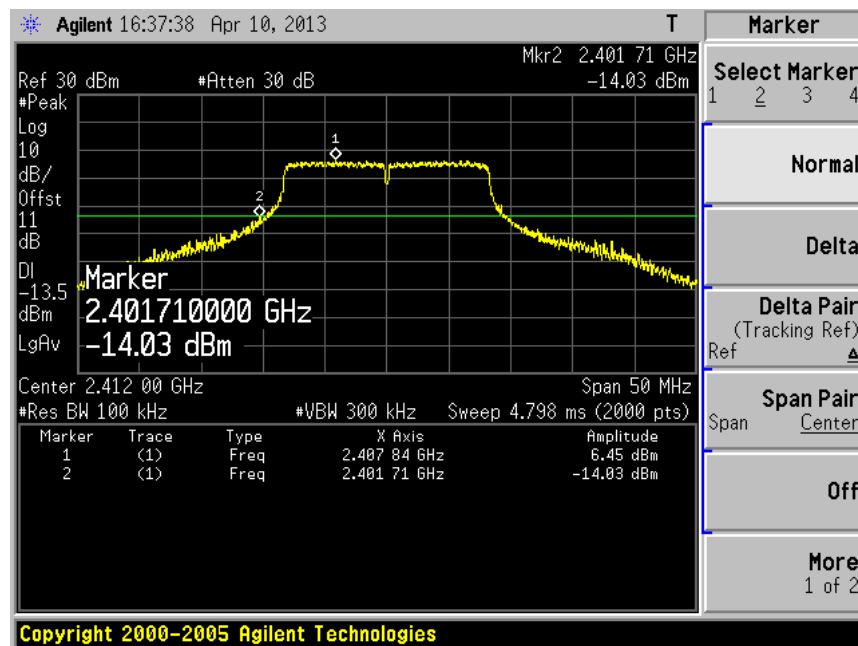


Channel 11 (2462MHz)

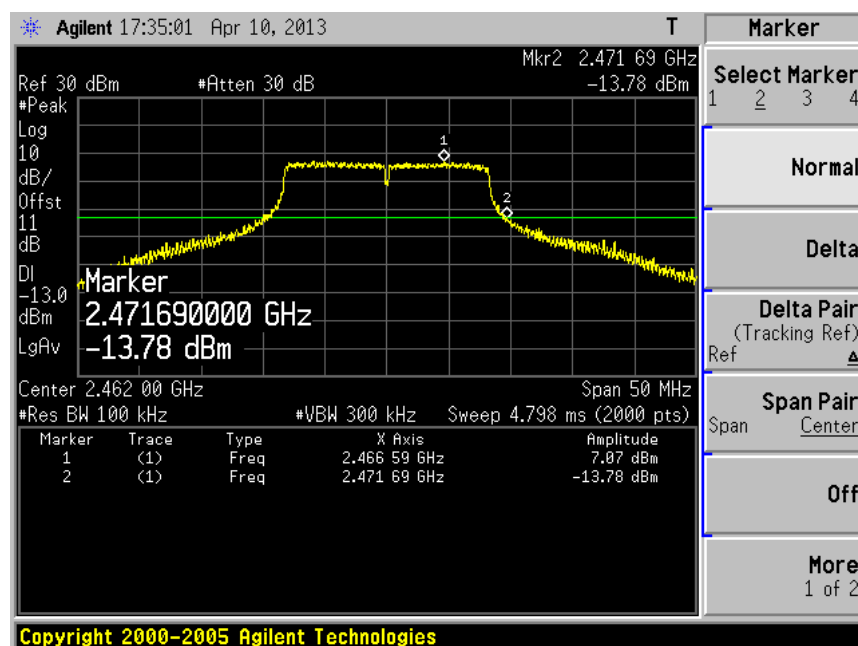


Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 1)

Channel 01 (2412MHz)

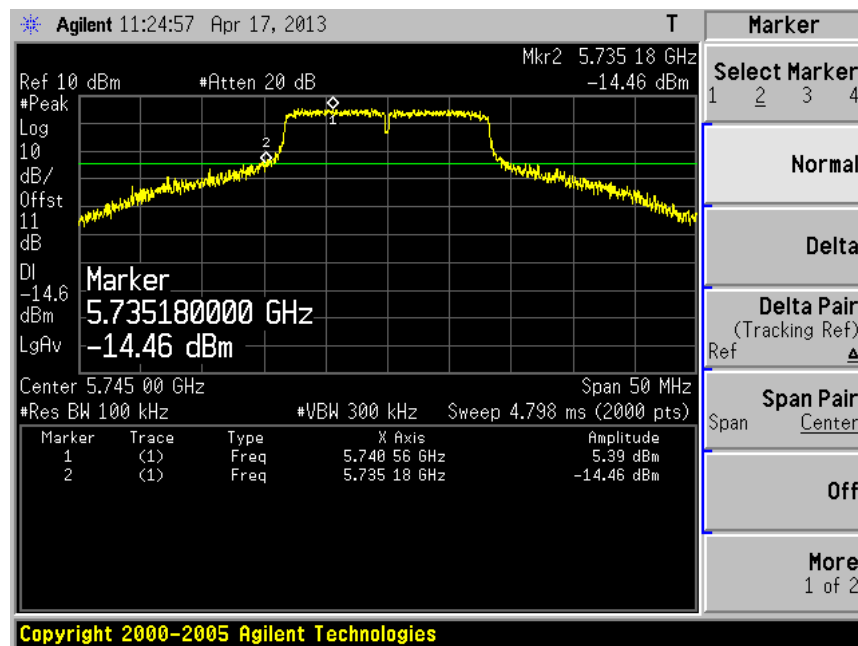


Channel 11 (2462MHz)

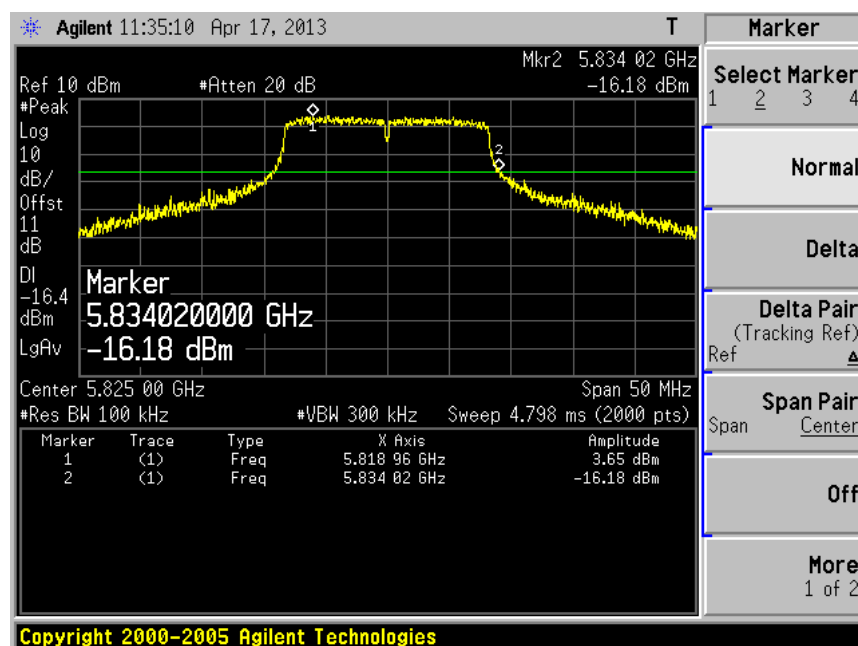


Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11a (Chain 1)

Channel 149 (5745MHz)

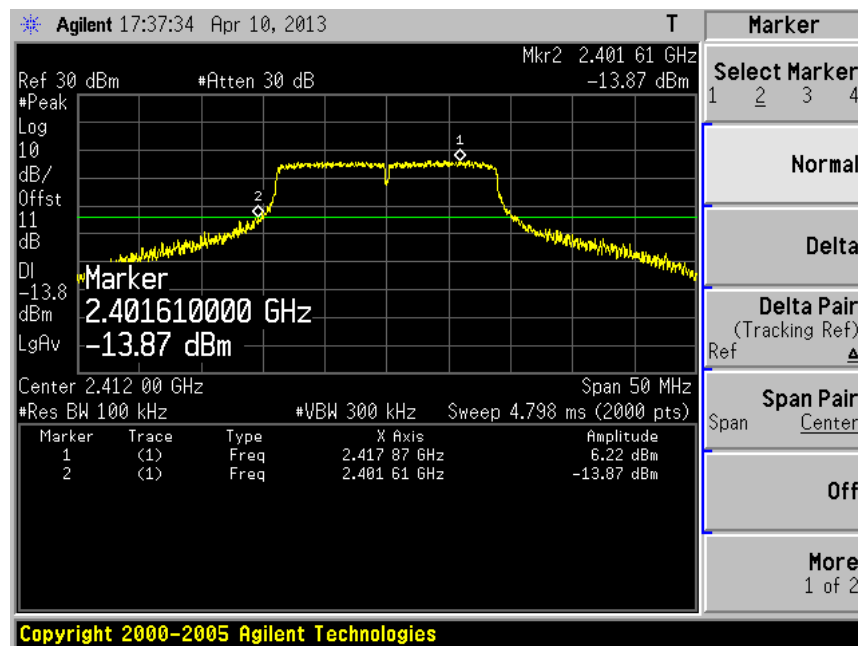


Channel 165 (5825MHz)

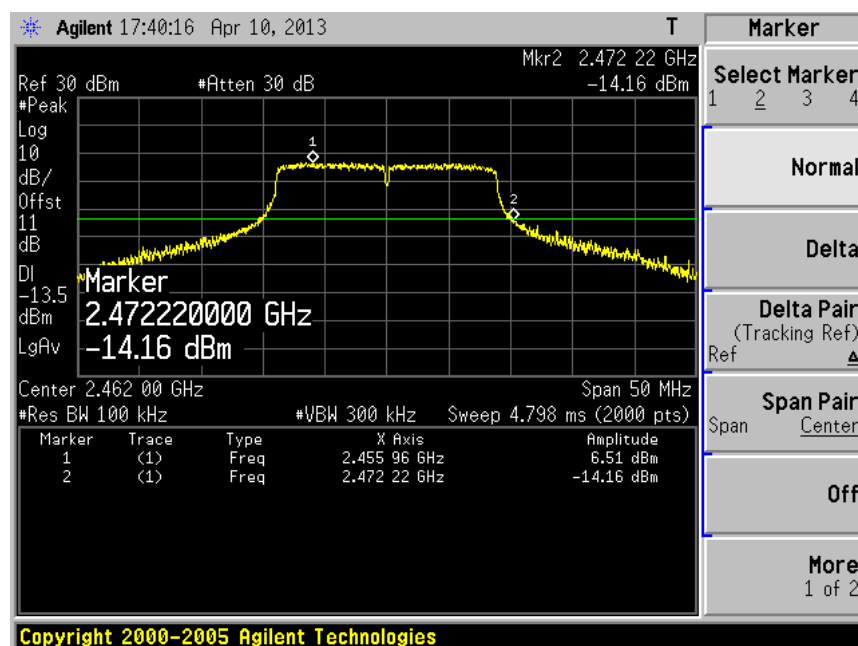


Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n (20MHz) (Chain 1)

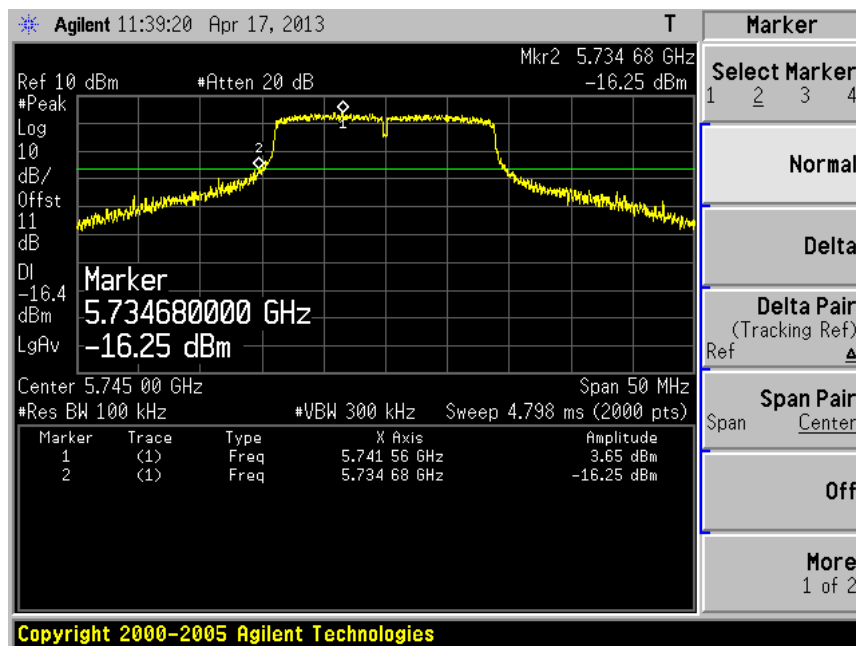
Channel 01 (2412MHz)



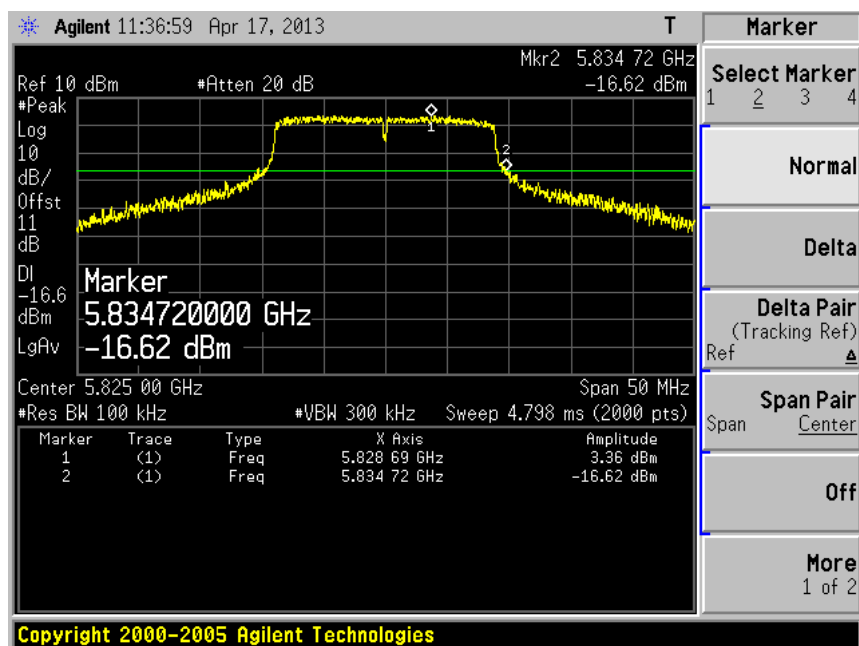
Channel 11 (2462MHz)



Channel 149 (5745MHz)

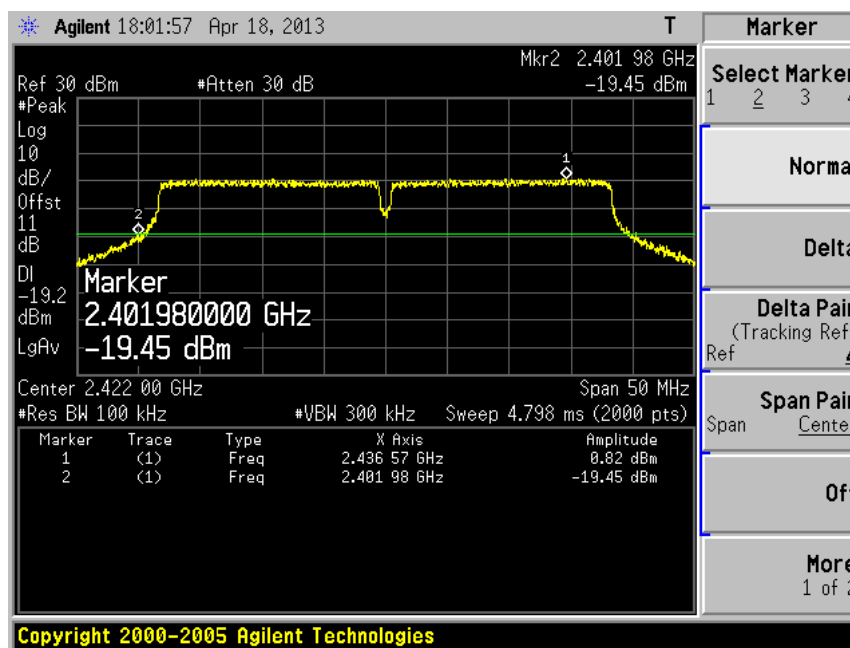


Channel 165 (5825MHz)

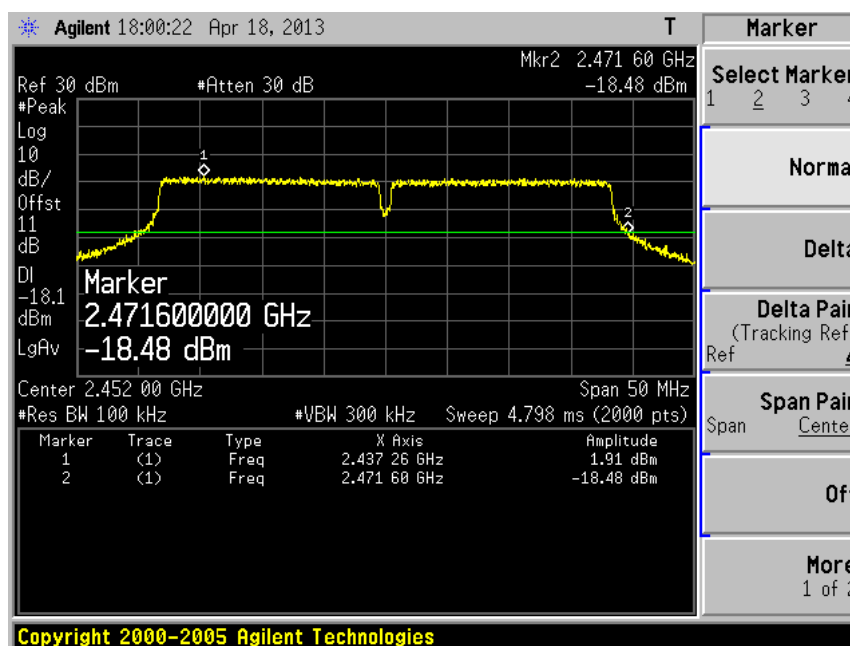


Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 5: Transmit by 802.11n (40MHz) (Chain 1)

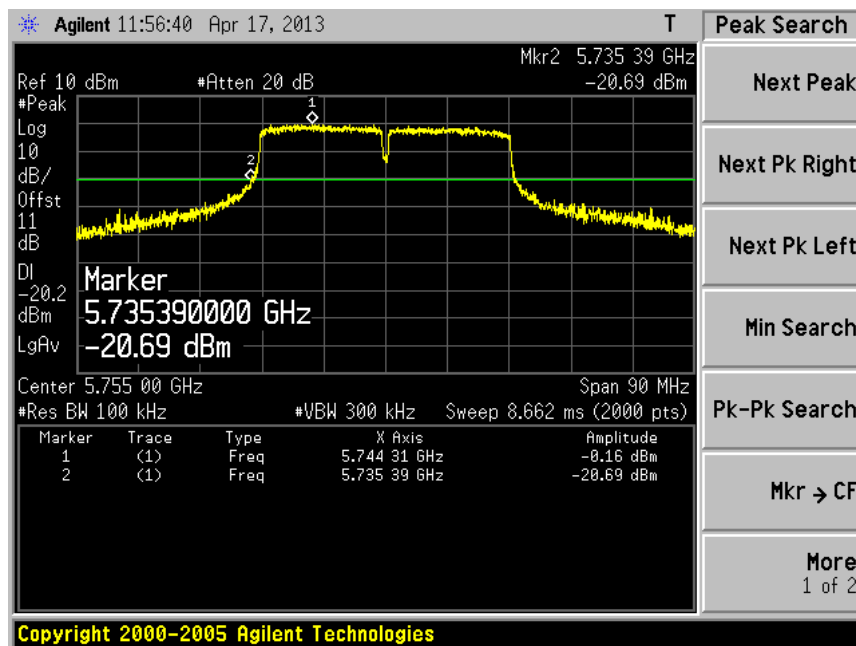
Channel 03 (2422MHz)



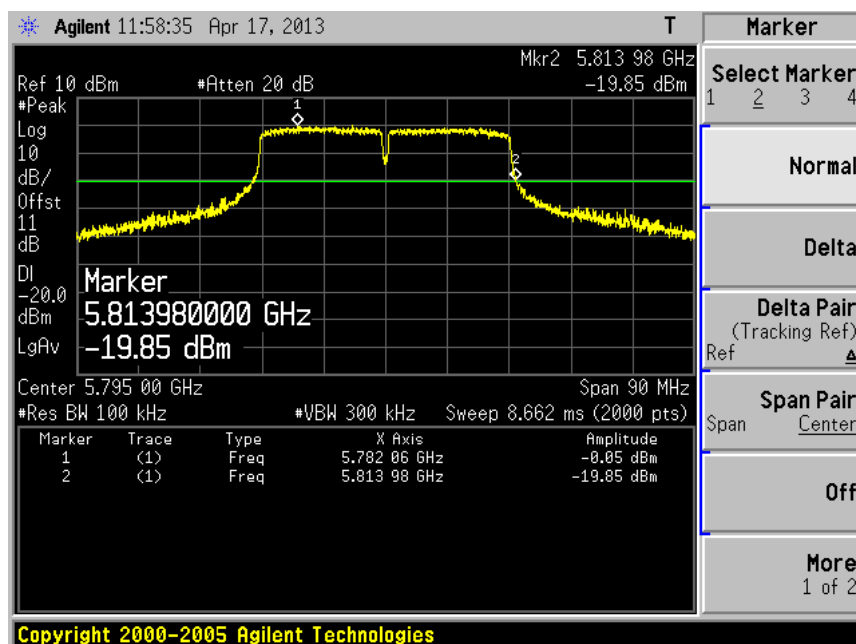
Channel 09 (2452MHz)



Channel 151 (5755MHz)



Channel 159 (5795MHz)



8. Occupied Bandwidth

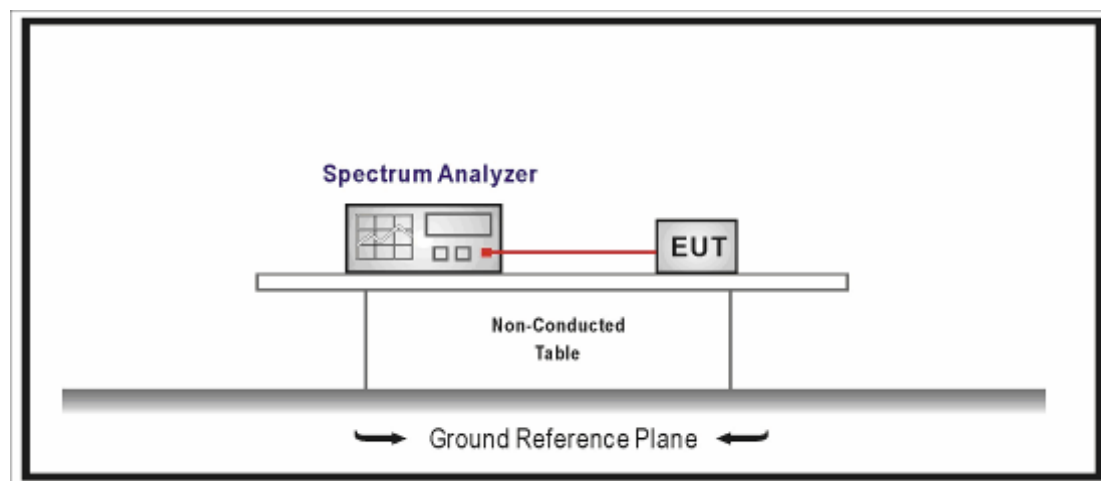
8.1. Test Equipment

Occupied Bandwidth / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2014.03.30
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2014.05.07

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

8.2. Test Setup



8.3. Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

1.1. Test Procedure

The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

1.2. Uncertainty

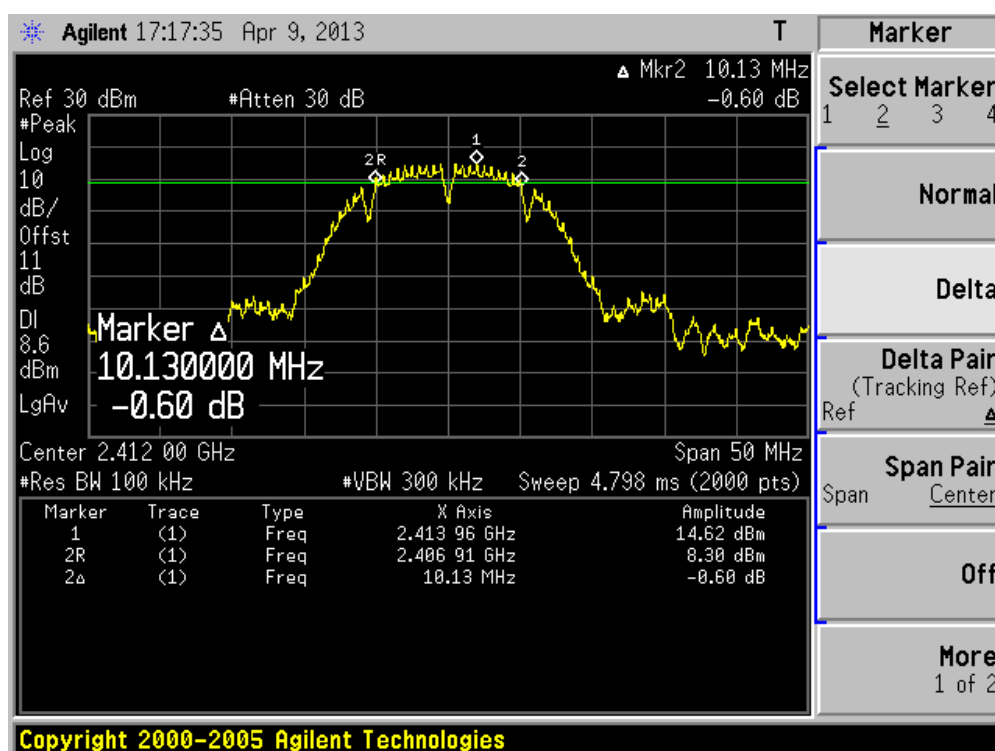
The measurement uncertainty is defined as ± 1 kHz

8.4. Test Result

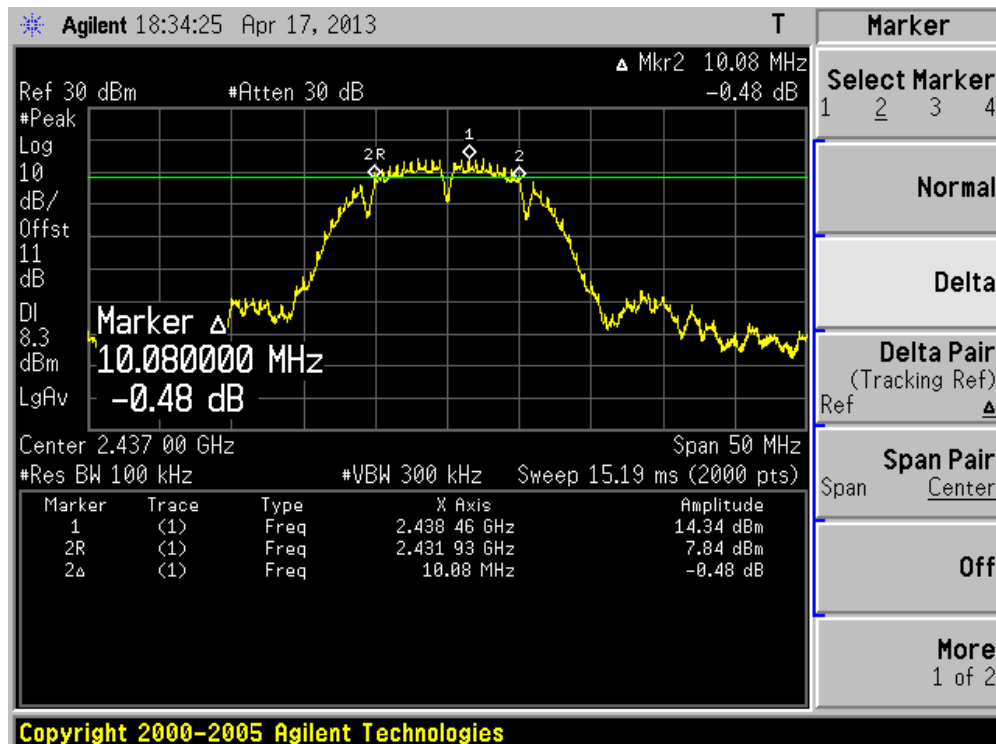
Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 0)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	10130.0	500	Pass
06	2437	10080.0	500	Pass
11	2462	10130.0	500	Pass

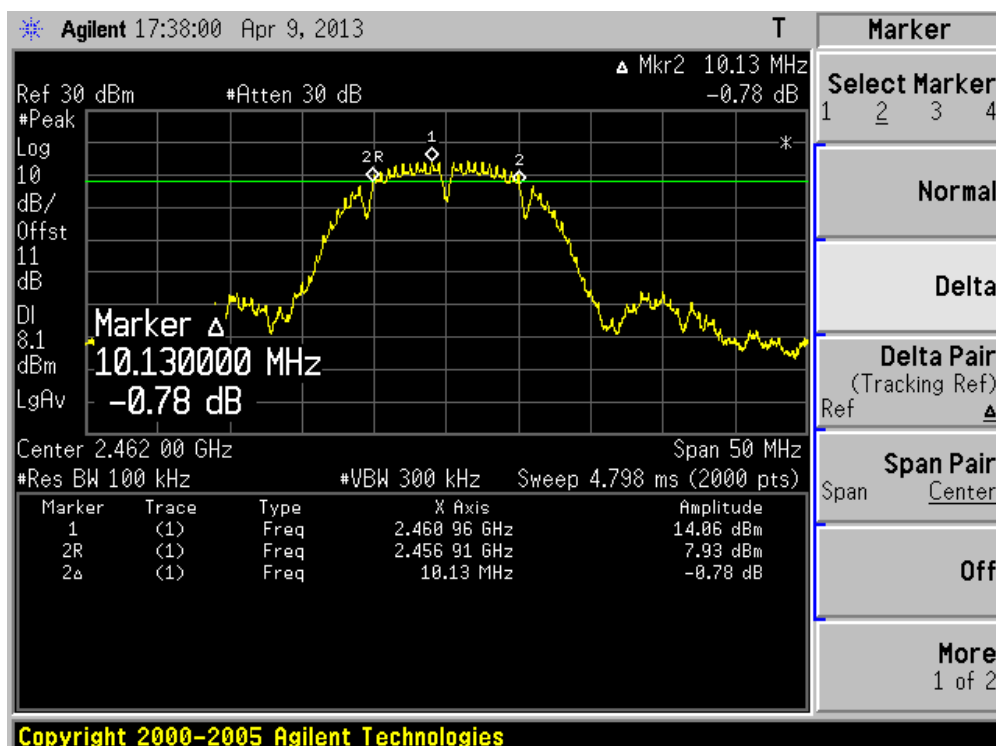
Channel 01 (2412MHz)



Channel 06 (2437MHz)



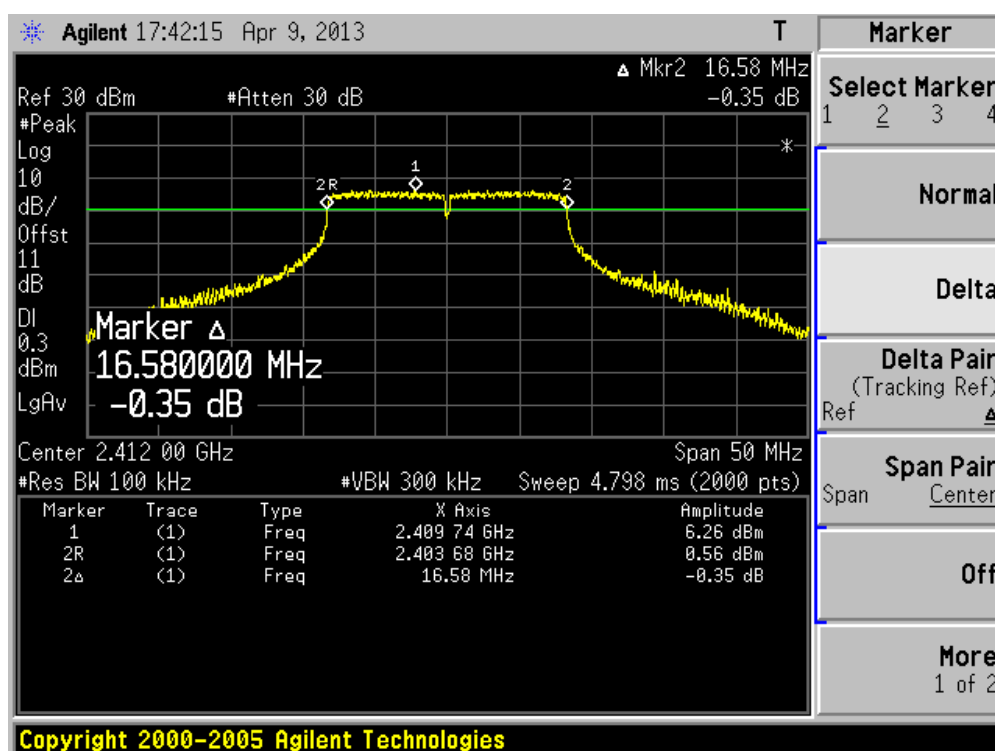
Channel 11 (2462MHz)



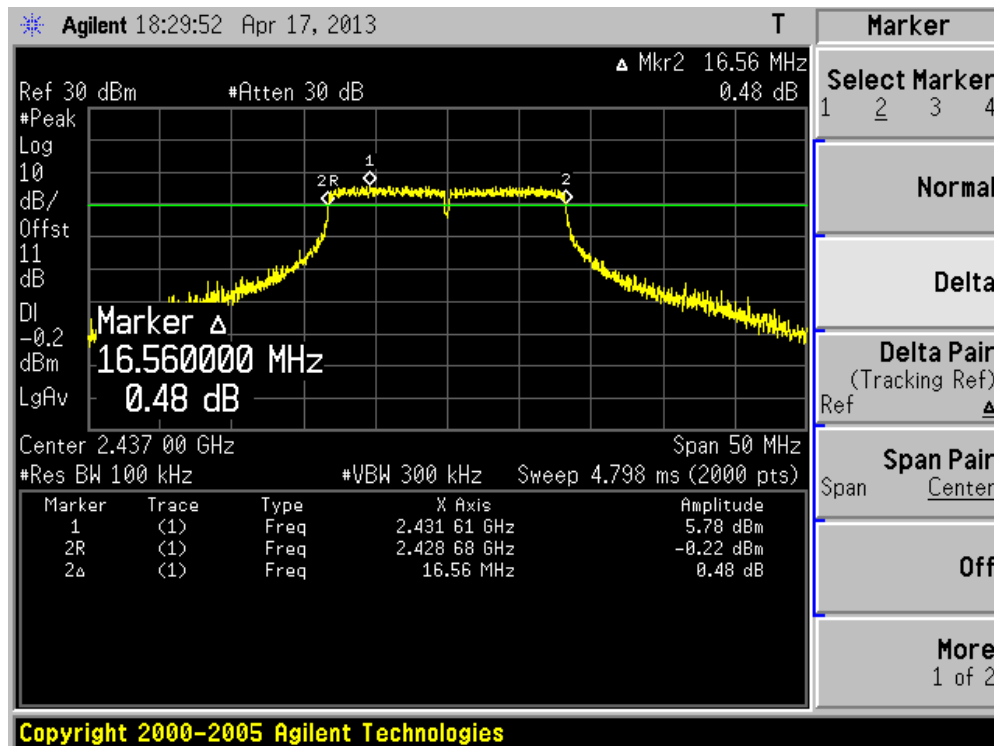
Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 0)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	16580.0	500	Pass
06	2437	16560.0	500	Pass
11	2462	16610.0	500	Pass

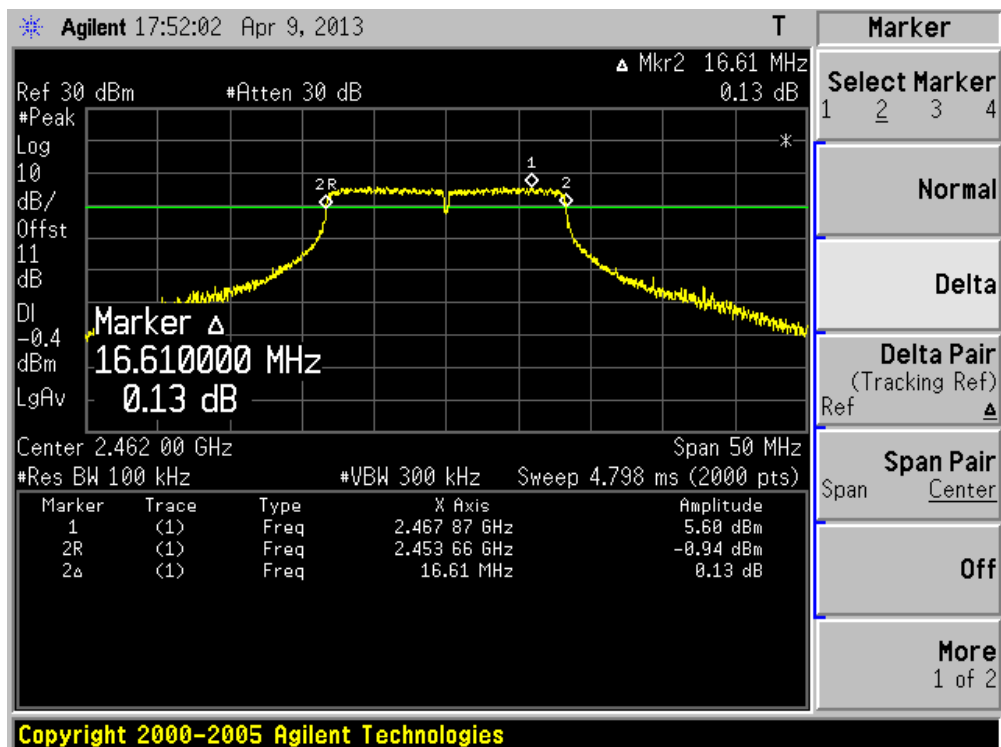
Channel 01 (2412MHz)



Channel 06 (2437MHz)



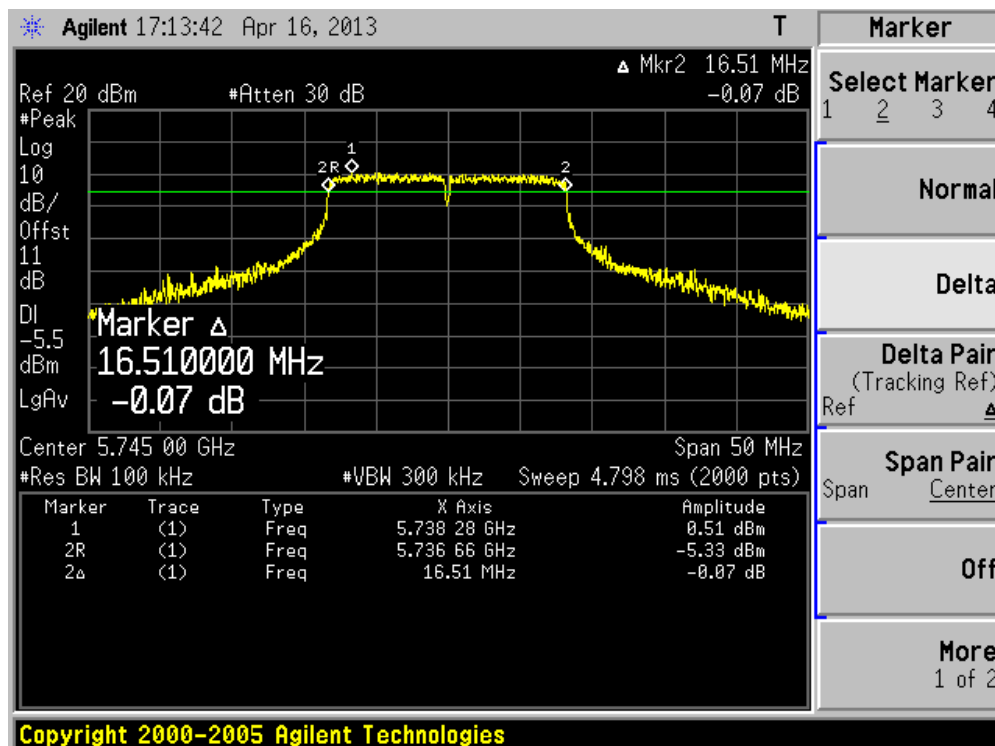
Channel 11 (2462MHz)



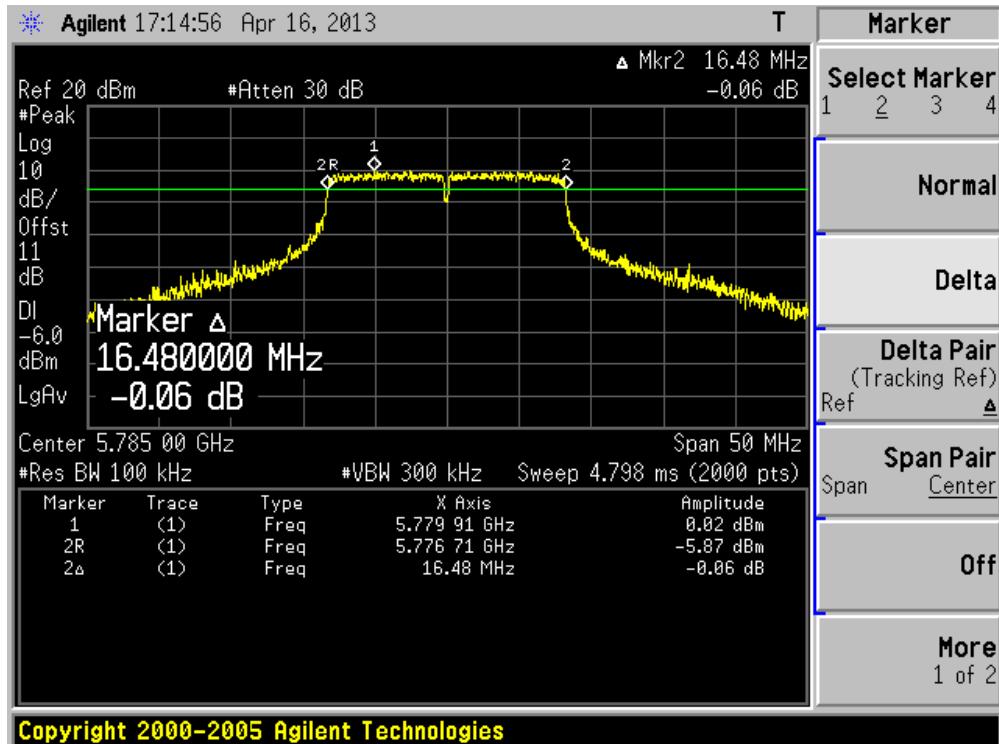
Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11a (Chain 0)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
149	5745	16510.0	500	Pass
157	5785	16480.0	500	Pass
165	5825	16510.0	500	Pass

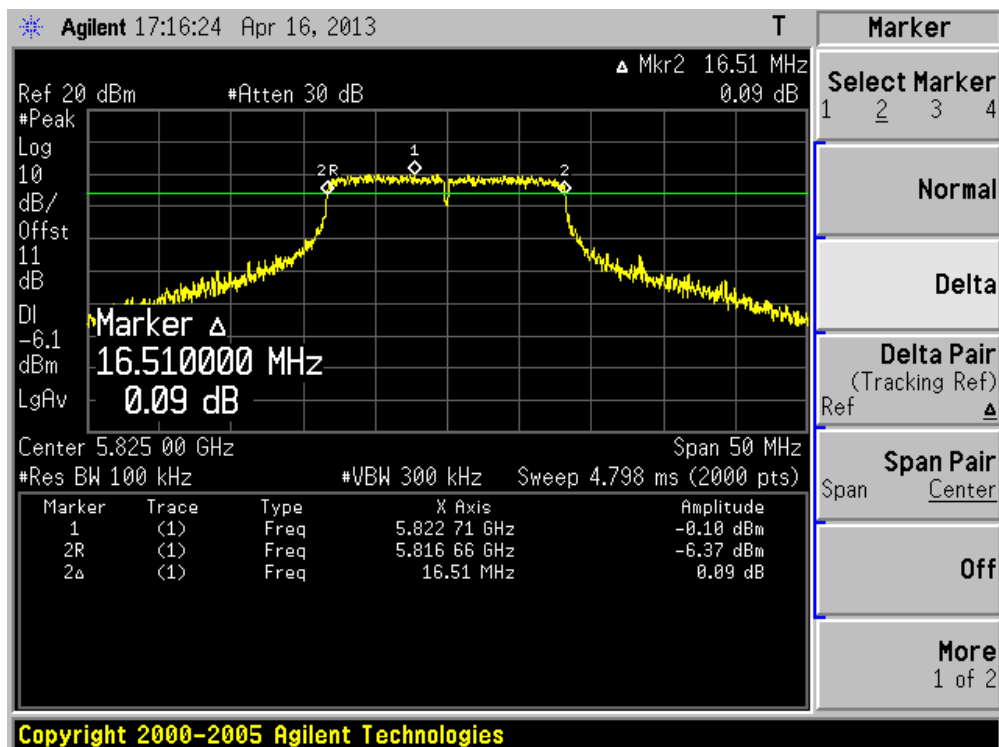
Channel 149 (5745MHz)



Channel 157 (5785MHz)



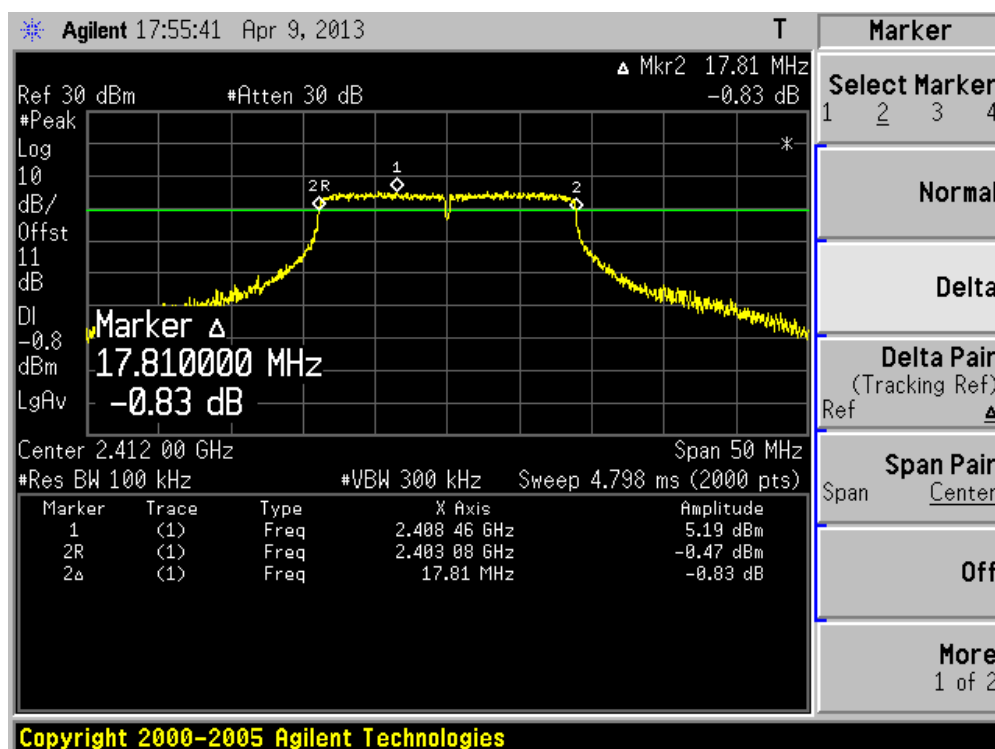
Channel 165 (5825MHz)



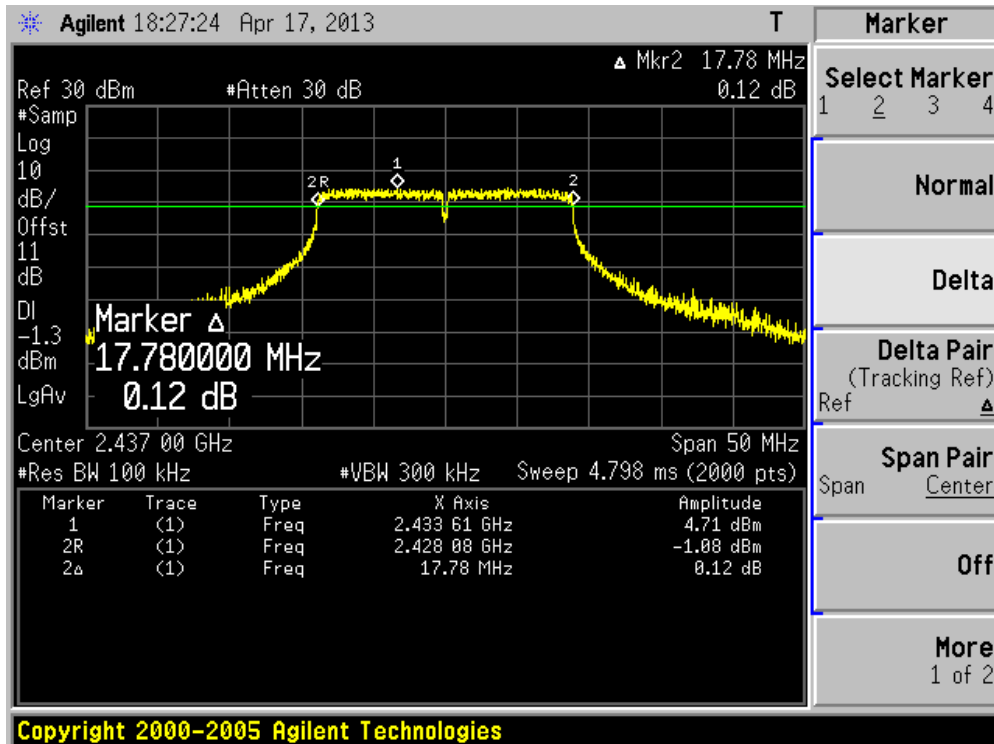
Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n (20MHz) (Chain 0)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	17810.0	500	Pass
06	2437	17780.0	500	Pass
11	2462	17810.0	500	Pass
149	5745	17680.0	500	Pass
157	5785	17680.0	500	Pass
165	5825	17730.0	500	Pass

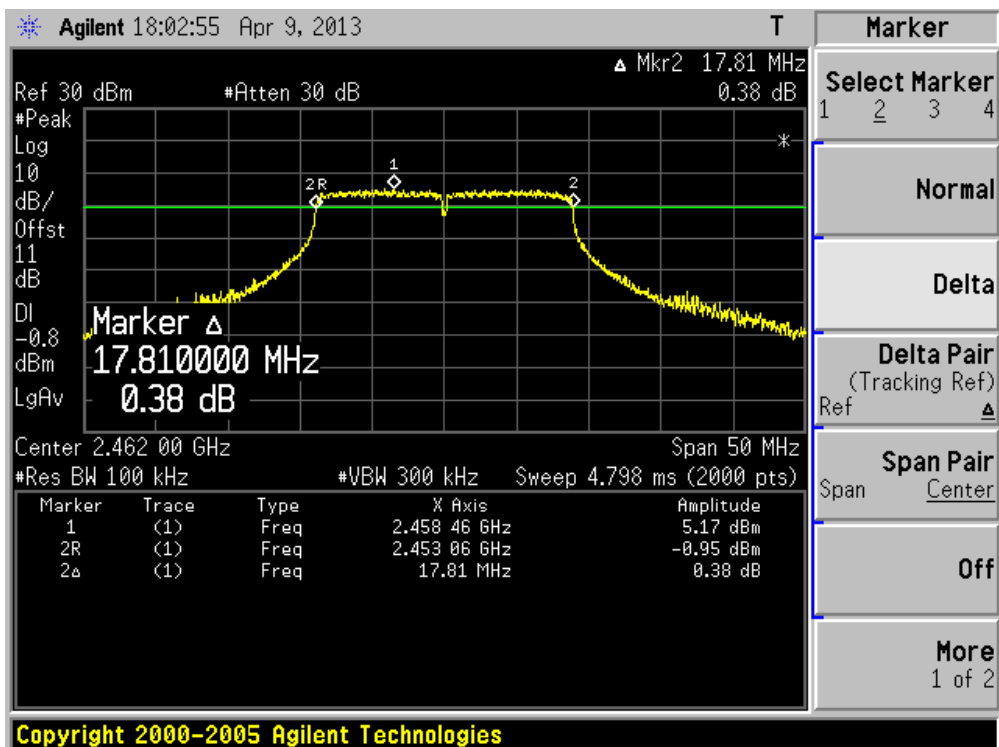
Channel 01 (2412MHz)



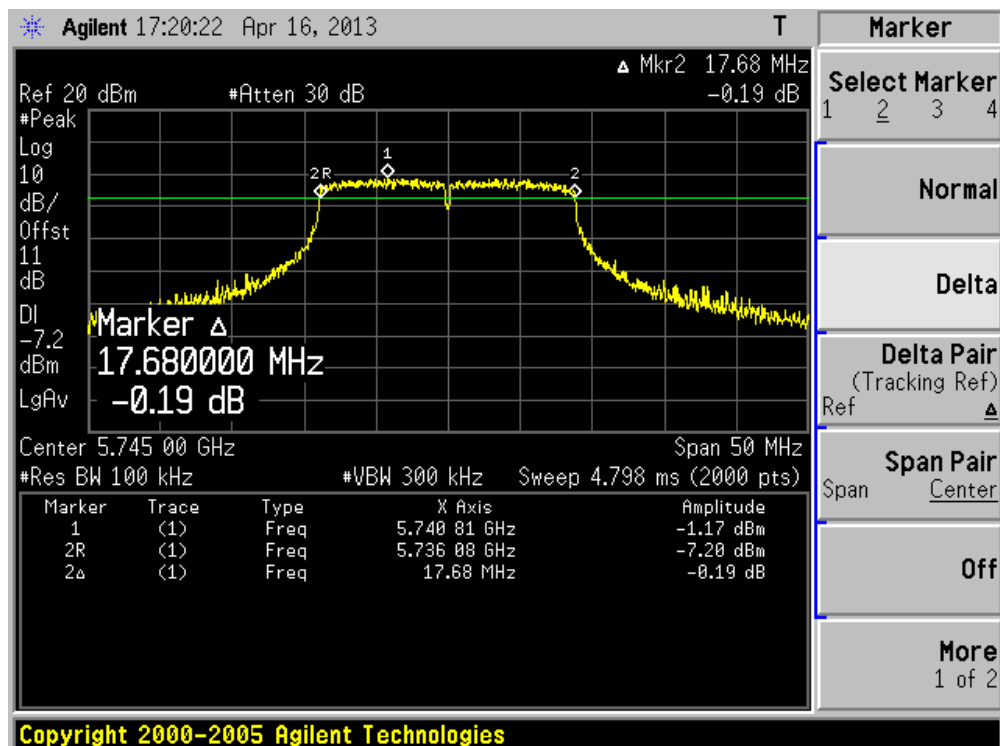
Channel 06 (2437MHz)



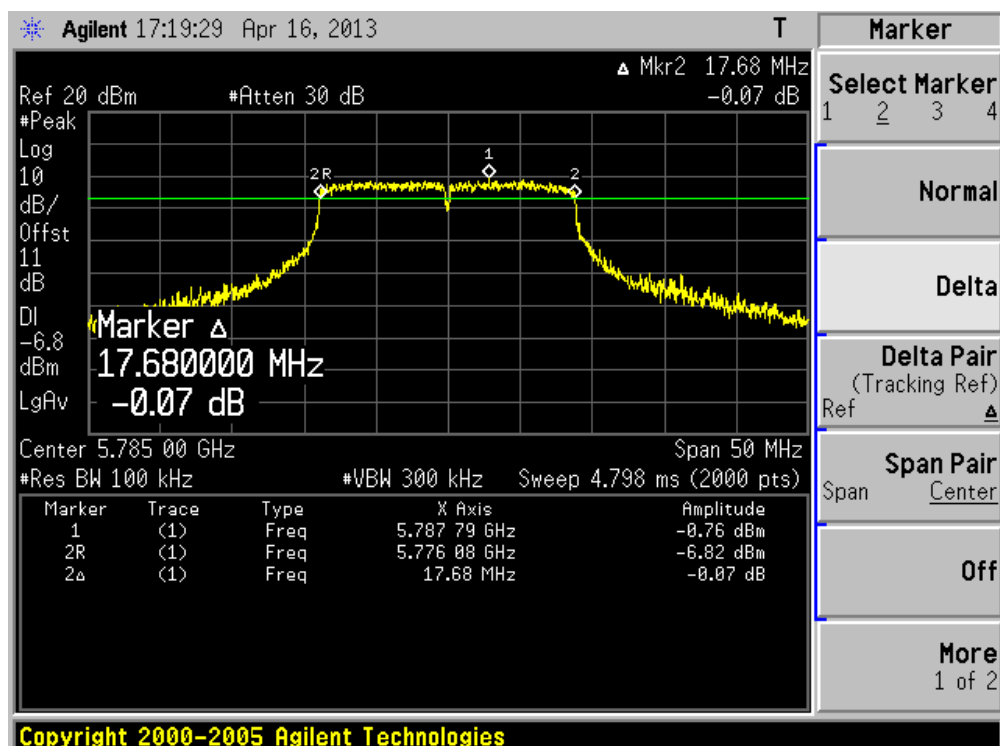
Channel 11 (2462MHz)



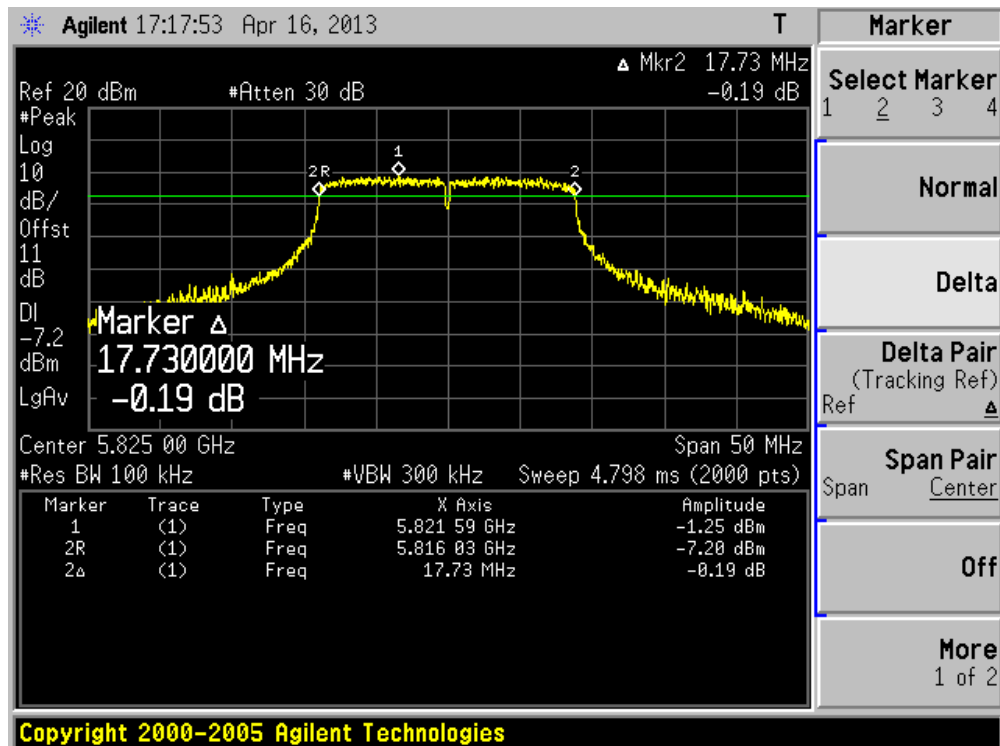
Channel 149 (5745MHz)



Channel 157 (5785MHz)



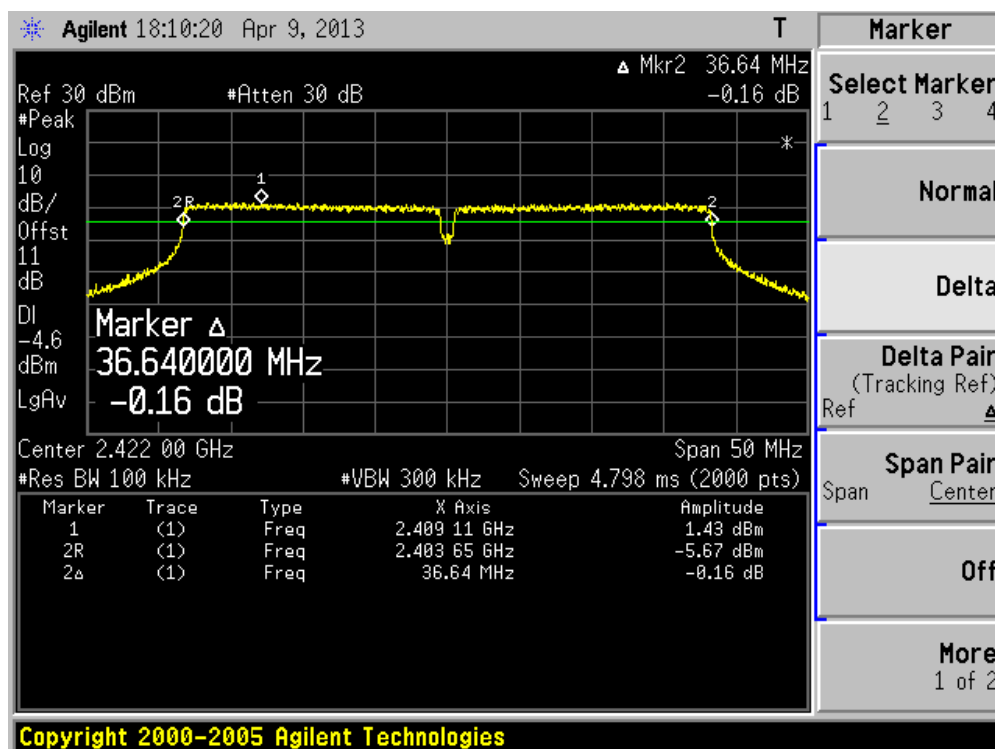
Channel 165 (5825MHz)



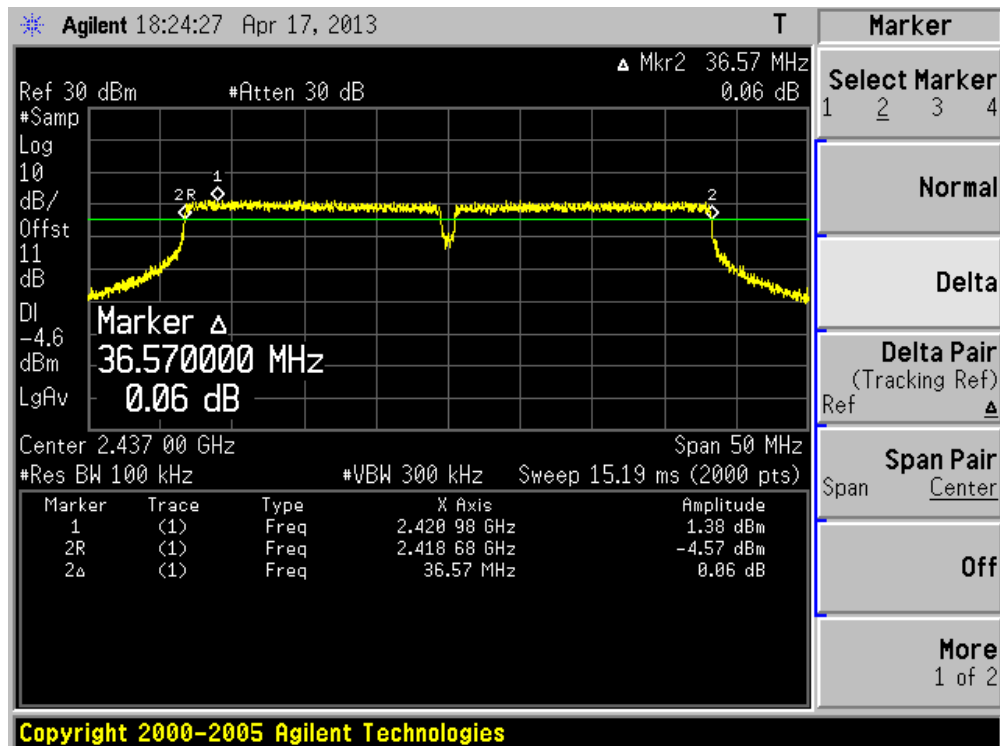
Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 5: Transmit by 802.11n (40MHz) (Chain 0)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
03	2422	36640.0	500	Pass
06	2437	36570.0	500	Pass
09	2452	36620.0	500	Pass
151	5755	36470.0	500	Pass
159	5795	36510.0	500	Pass

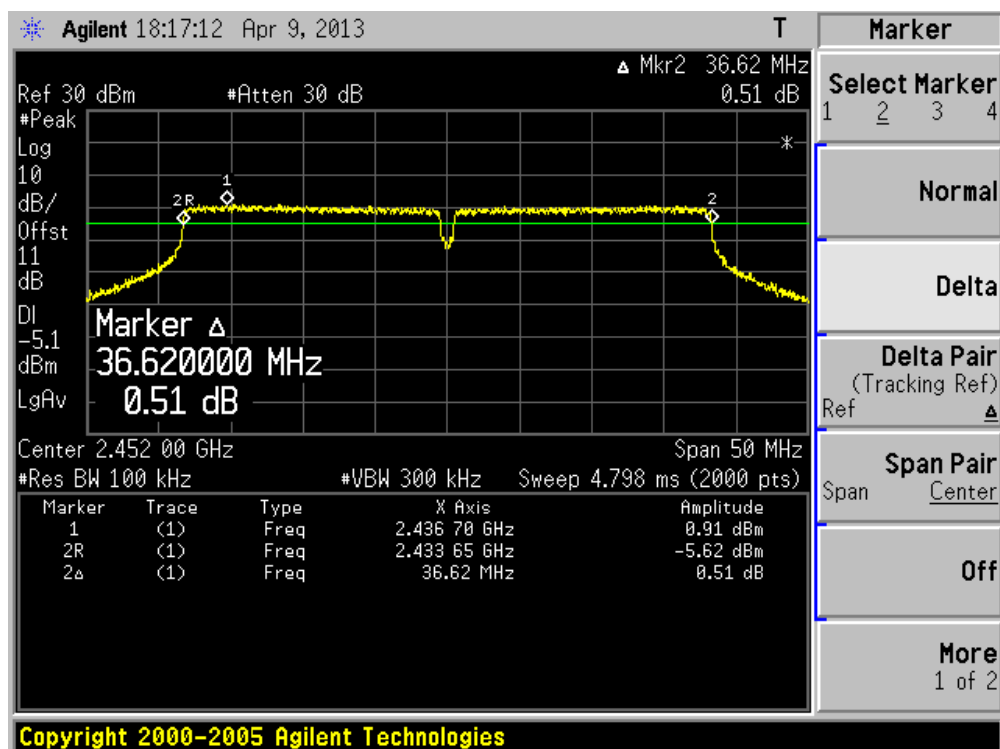
Channel 03 (2422MHz)



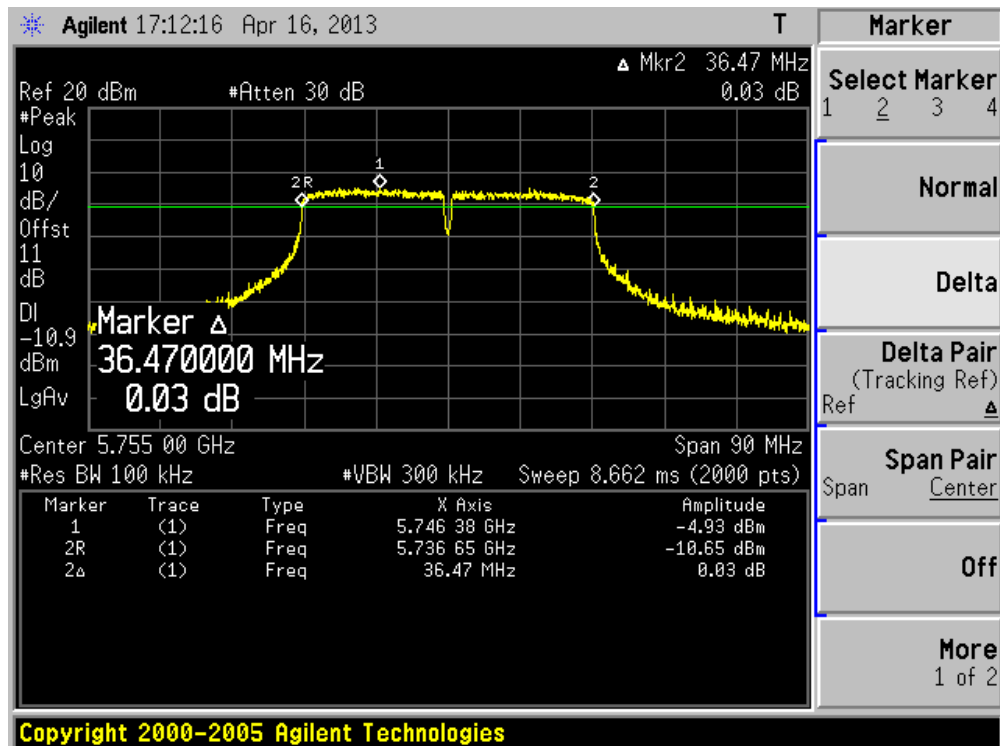
Channel 06 (2437MHz)



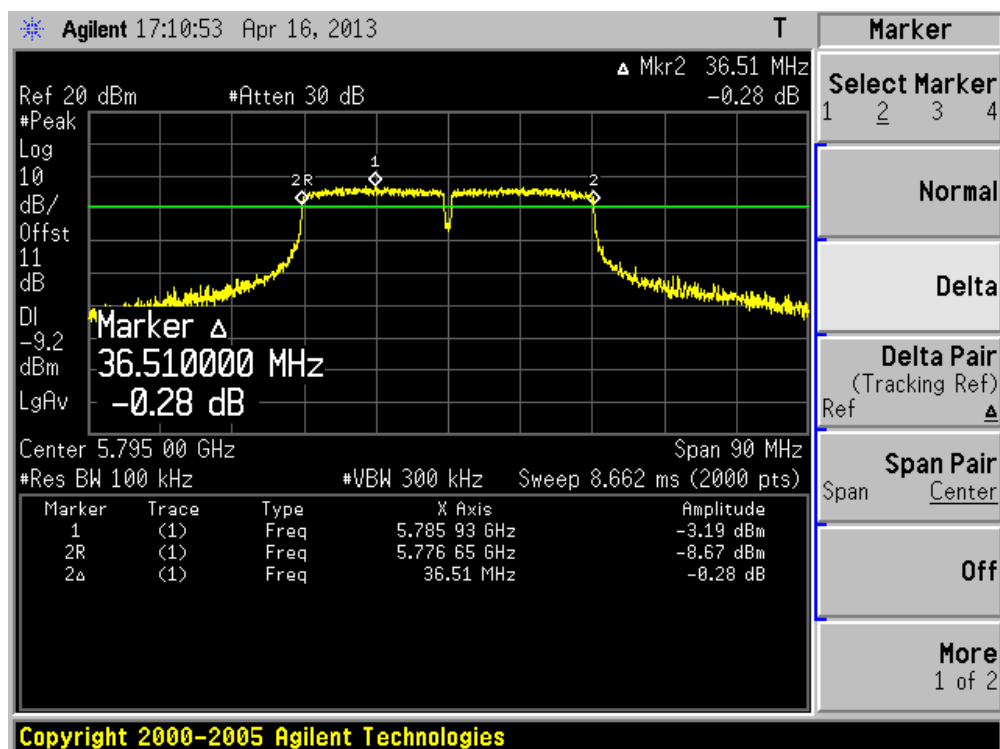
Channel 09 (2452MHz)



Channel 151 (5755MHz)



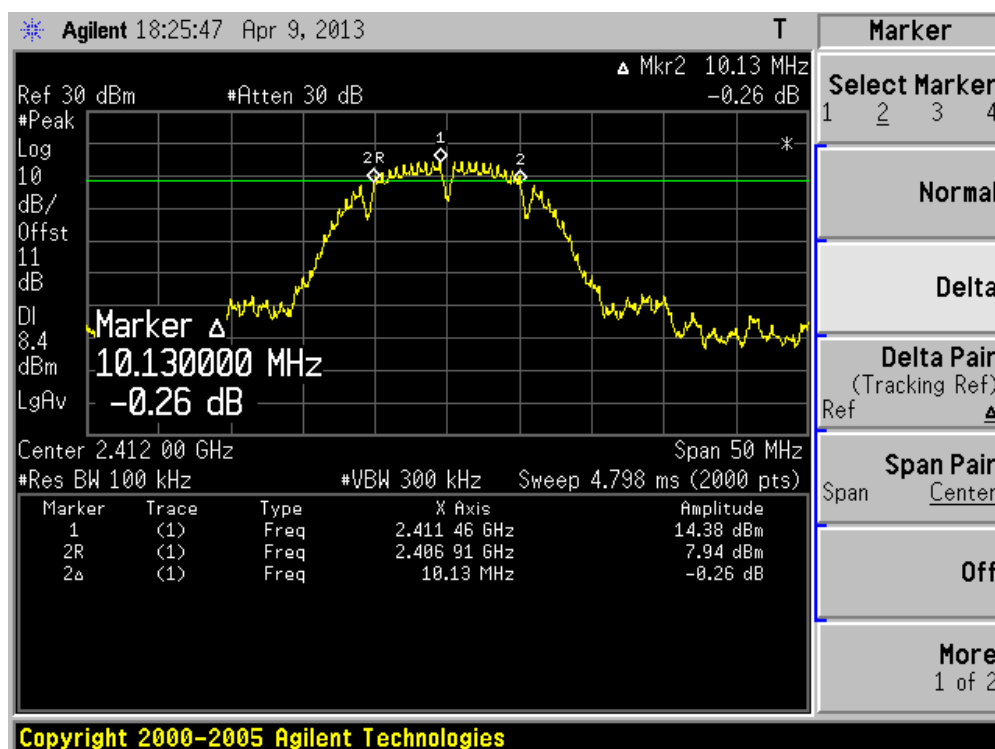
Channel 159 (5795MHz)



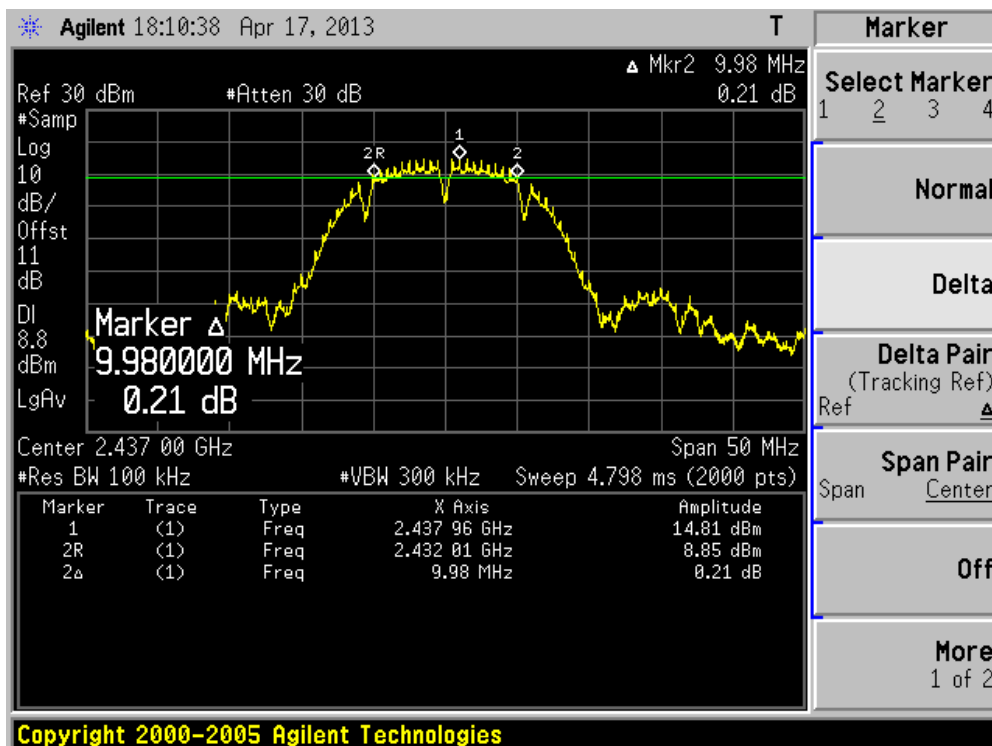
Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 1)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	10130.0	500	Pass
06	2437	9980.0	500	Pass
11	2462	10130.0	500	Pass

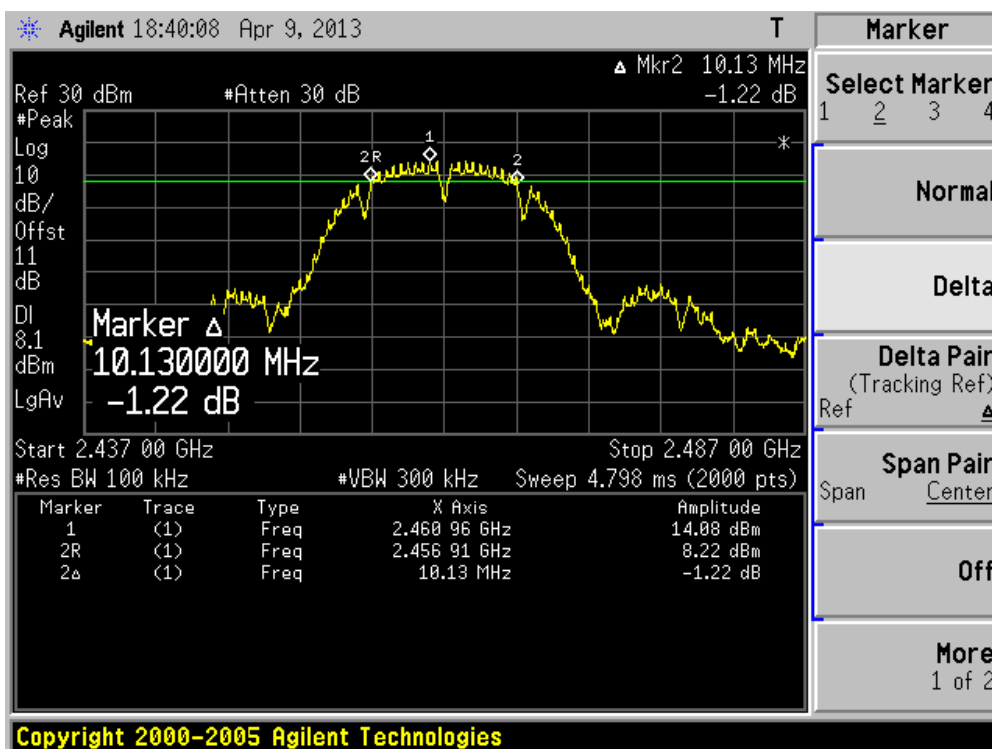
Channel 01 (2412MHz)



Channel 06 (2437MHz)



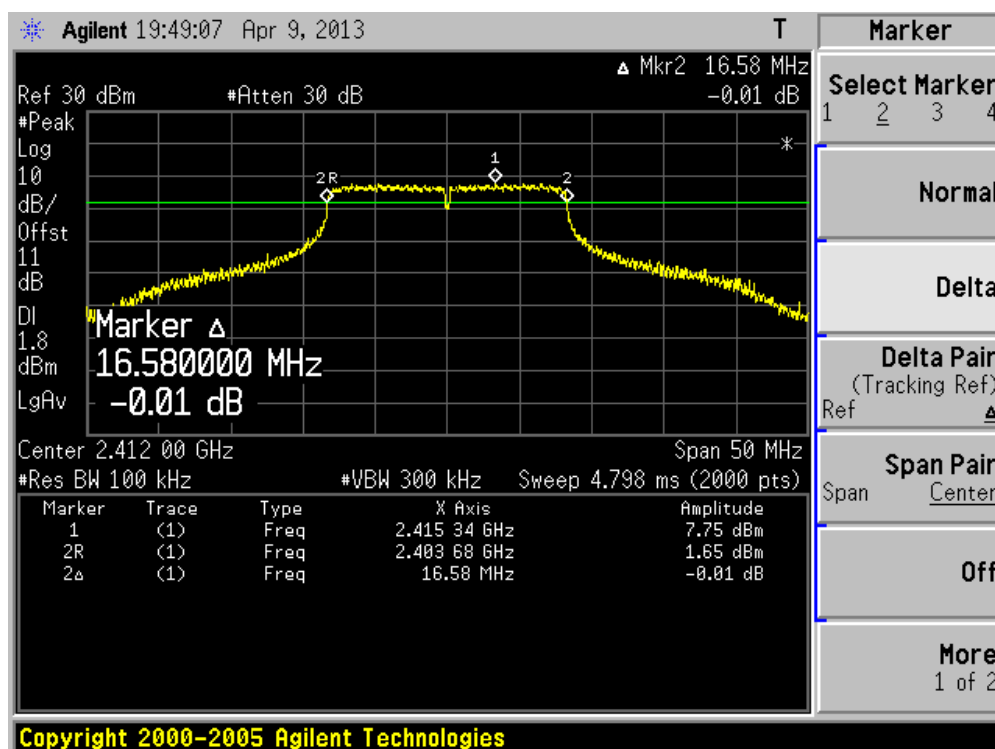
Channel 11 (2462MHz)



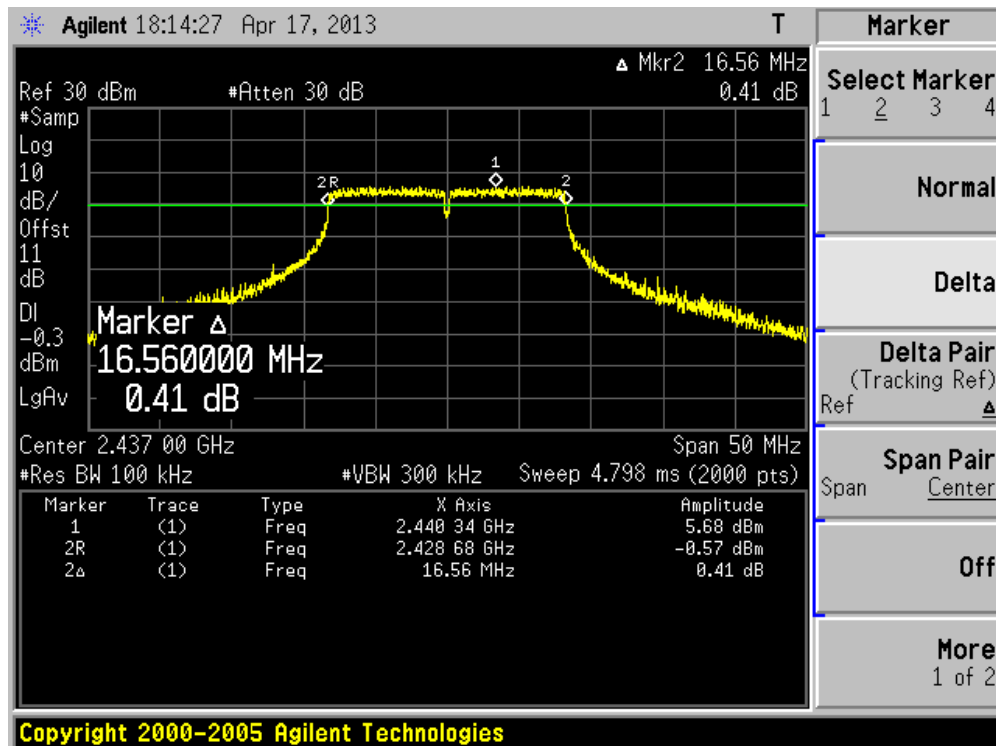
Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 1)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	16580.0	500	Pass
06	2437	16560.0	500	Pass
11	2462	16560.0	500	Pass

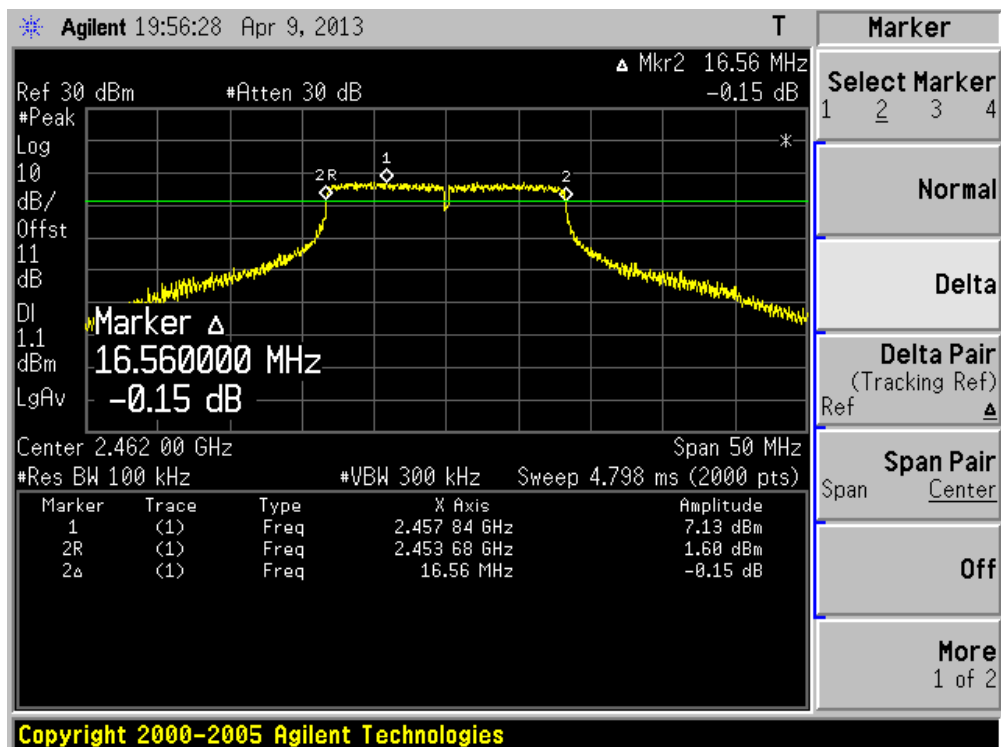
Channel 01 (2412MHz)



Channel 06 (2437MHz)



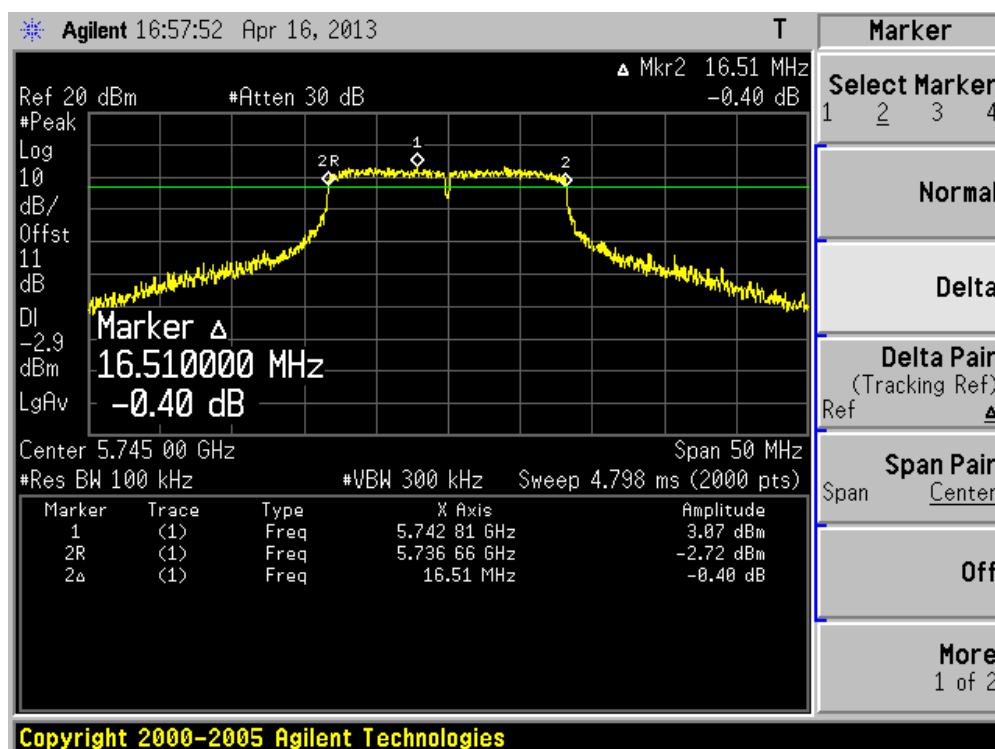
Channel 11 (2462MHz)



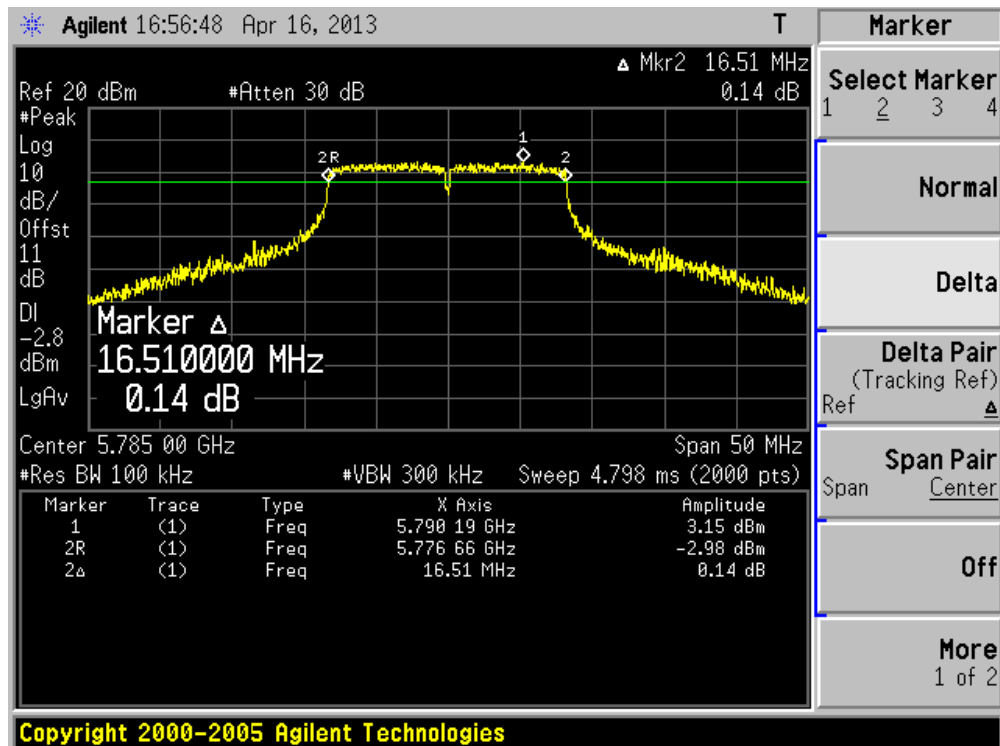
Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11a (Chain 1)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
149	5745	16510.0	500	Pass
157	5785	16510.0	500	Pass
165	5825	16530.0	500	Pass

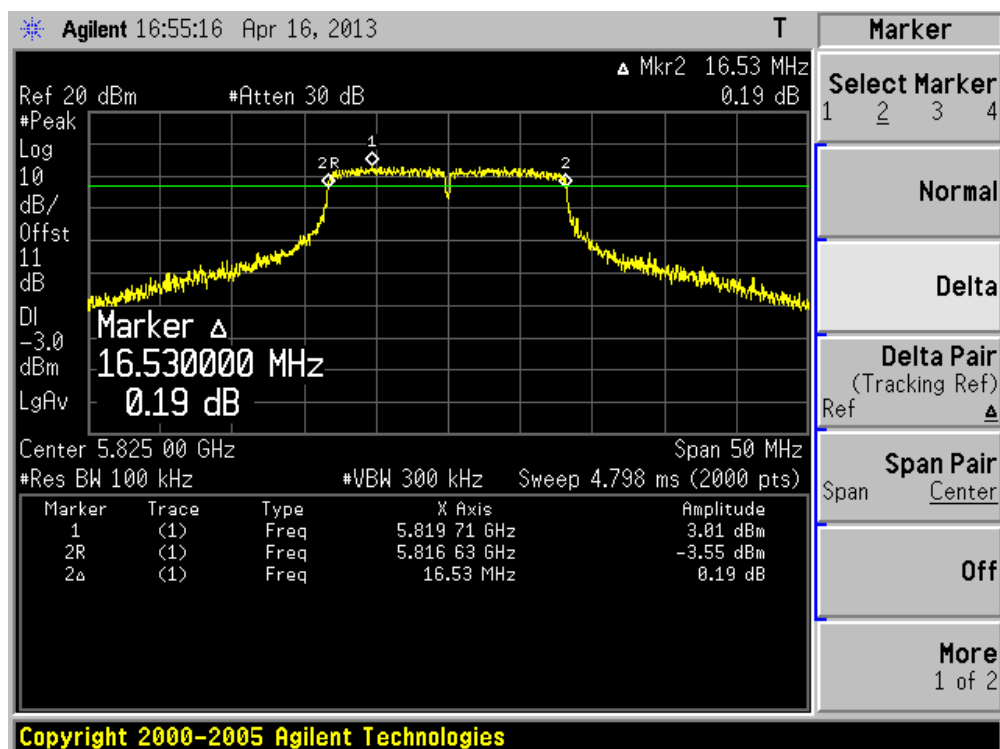
Channel 149 (5745MHz)



Channel 157 (5785MHz)



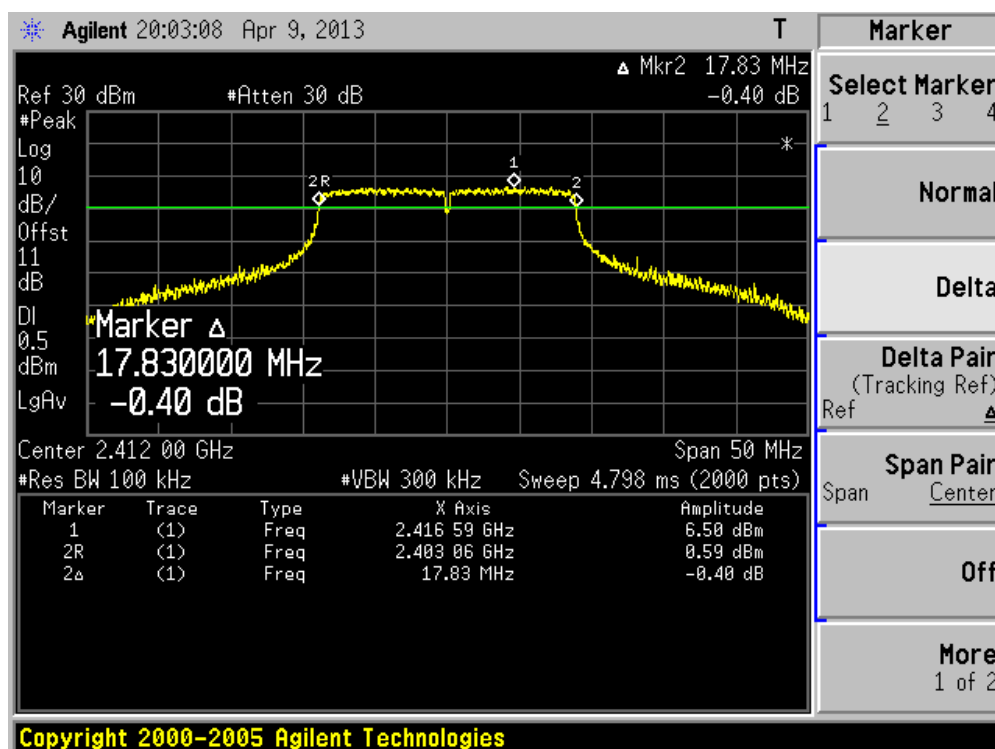
Channel 165 (5825MHz)



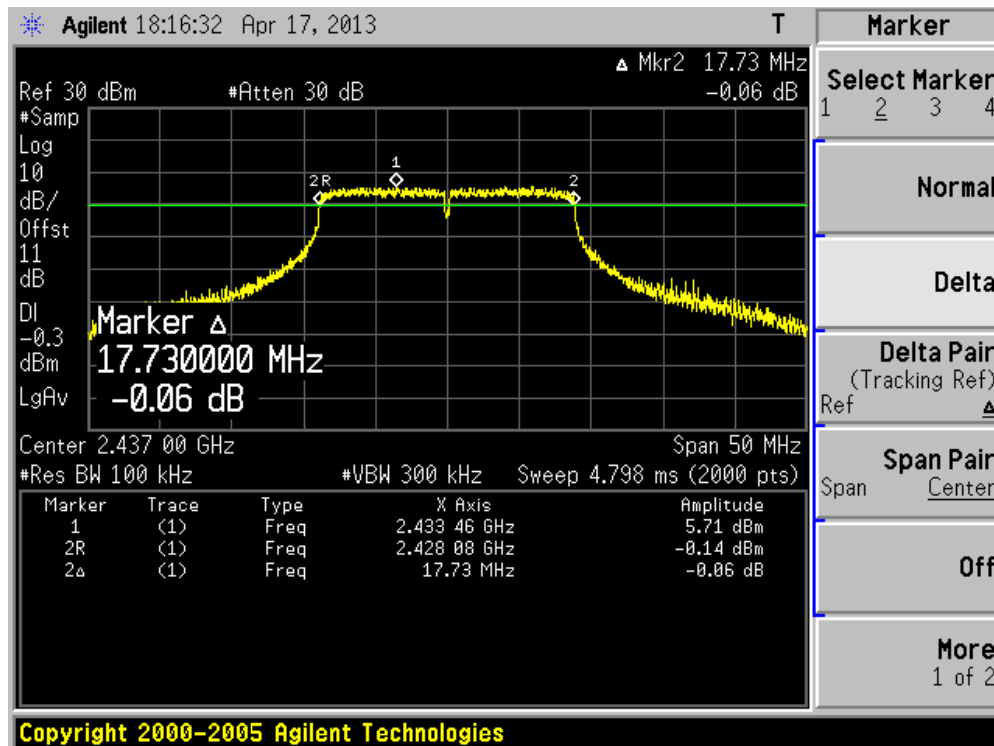
Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n (20MHz) (Chain 1)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	17830.0	500	Pass
06	2437	17730.0	500	Pass
11	2462	17830.0	500	Pass
149	5745	17710.0	500	Pass
157	5785	17730.0	500	Pass
165	5825	17680.0	500	Pass

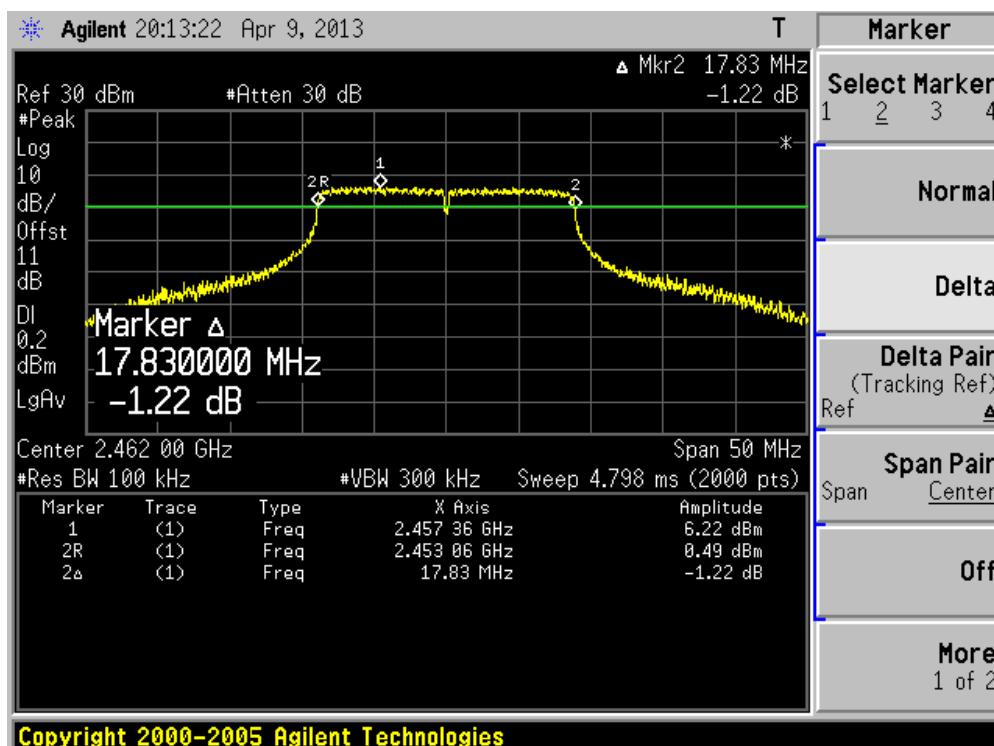
Channel 01 (2412MHz)



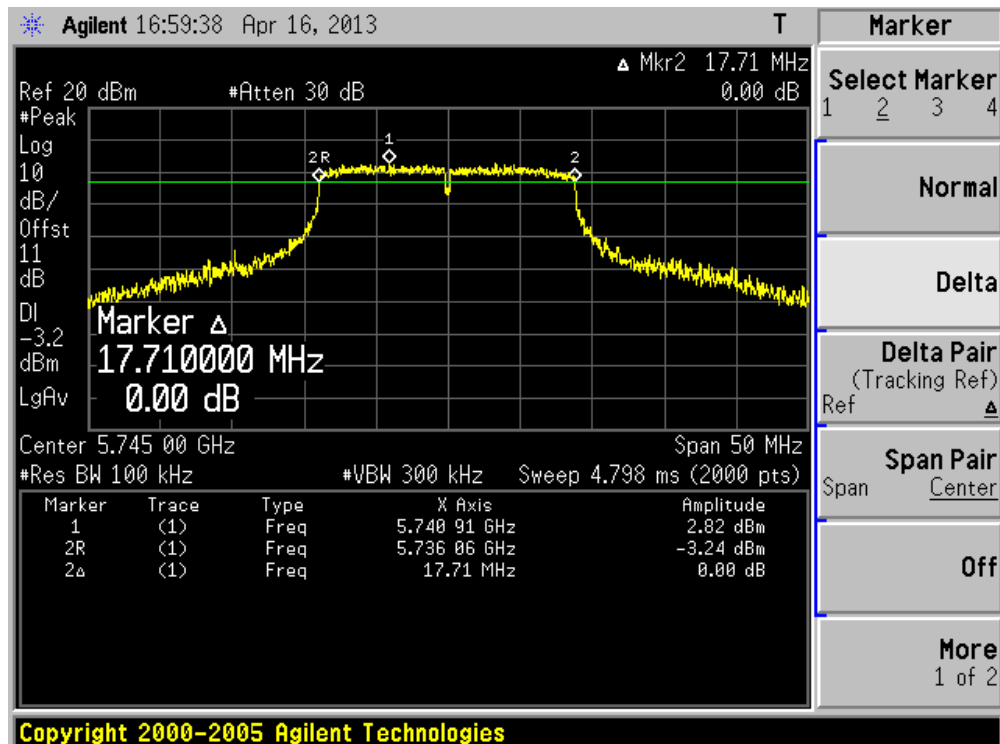
Channel 06 (2437MHz)



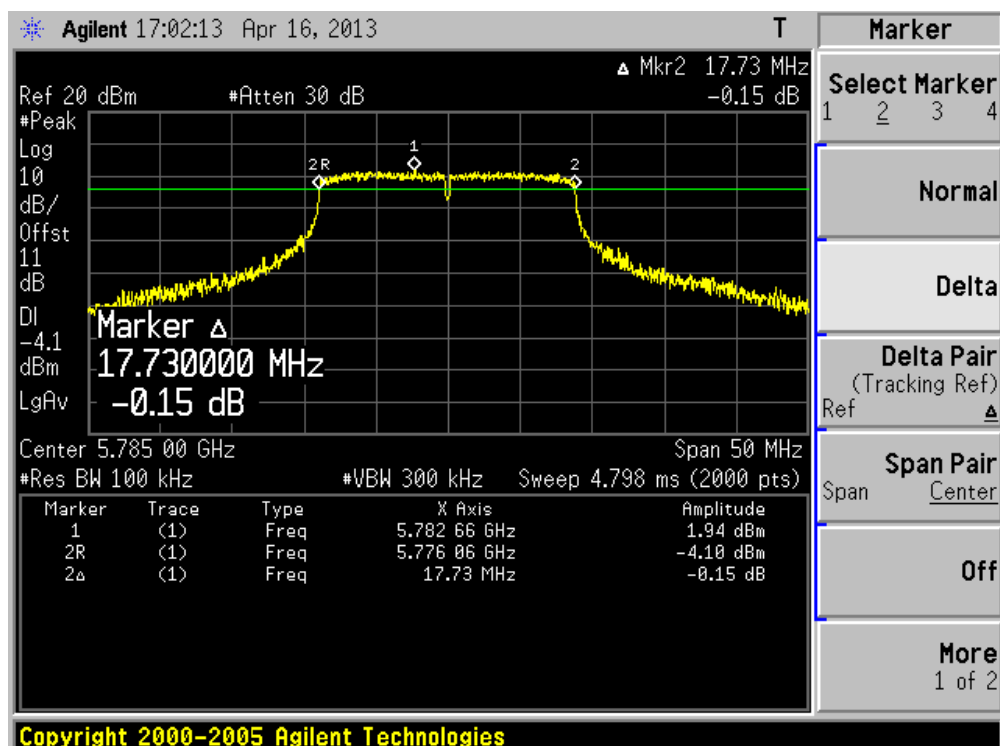
Channel 11 (2462MHz)



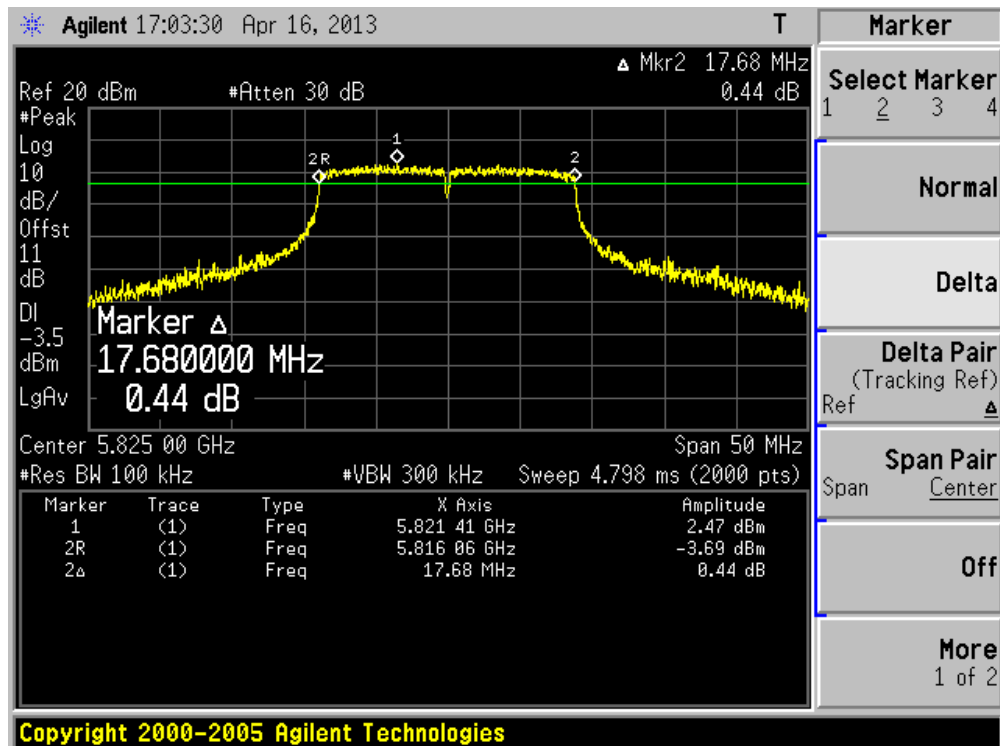
Channel 149 (5745MHz)



Channel 157 (5785MHz)



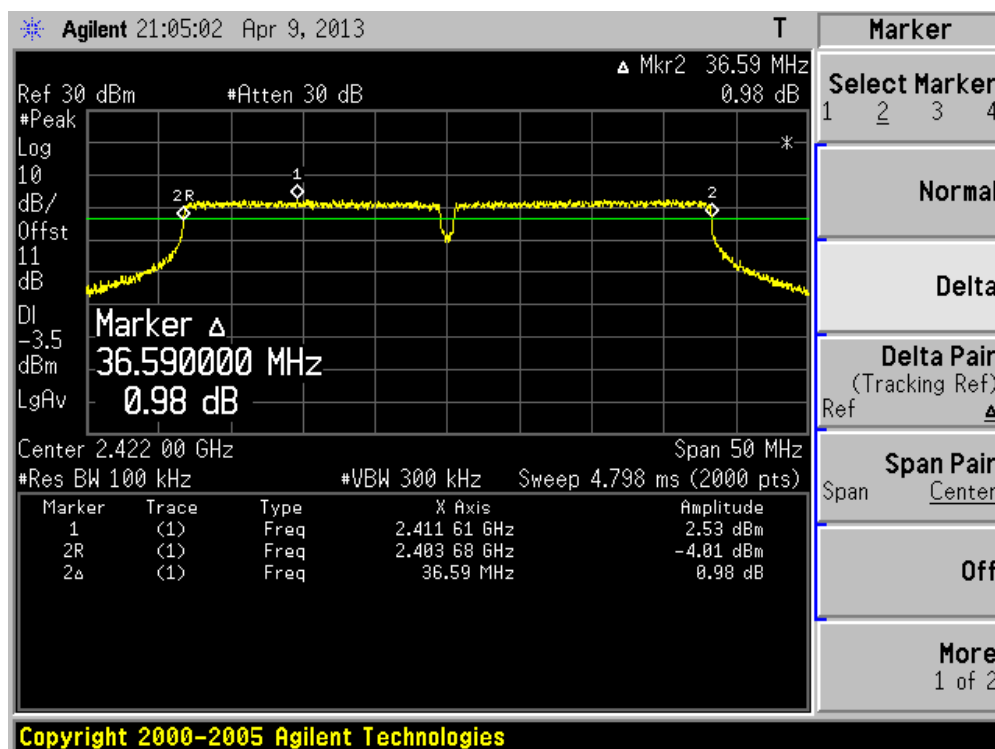
Channel 165 (5825MHz)



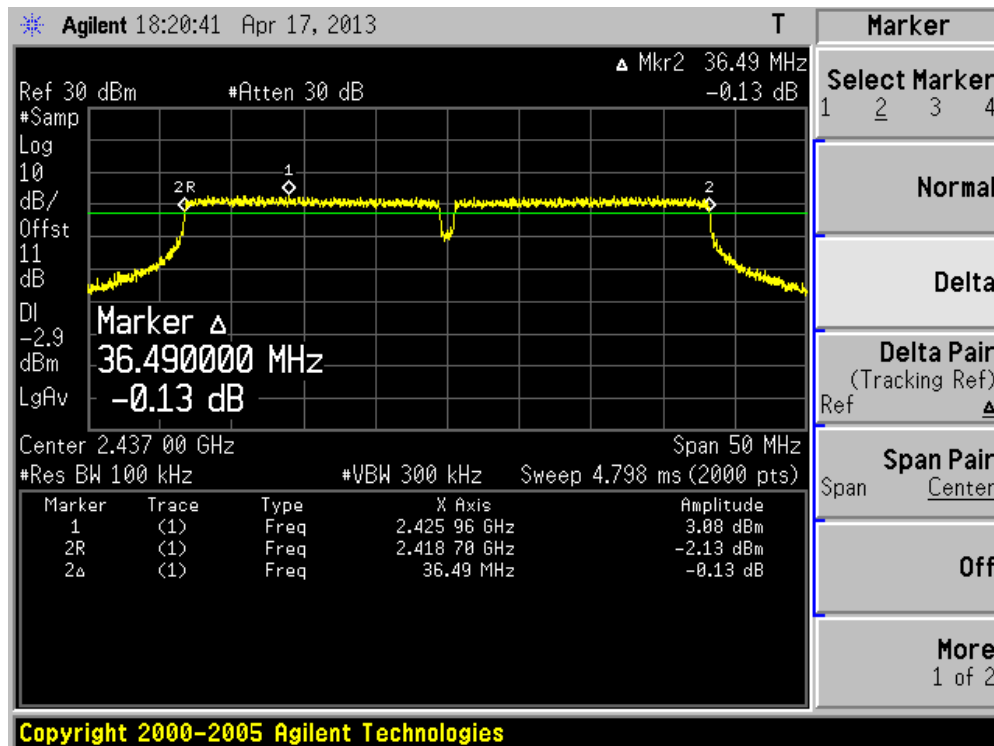
Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 5: Transmit by 802.11n (40MHz) (Chain 1)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
03	2422	36590.0	500	Pass
06	2437	36490.0	500	Pass
09	2452	36590.0	500	Pass
151	5755	36330.0	500	Pass
159	5795	36240.0	500	Pass

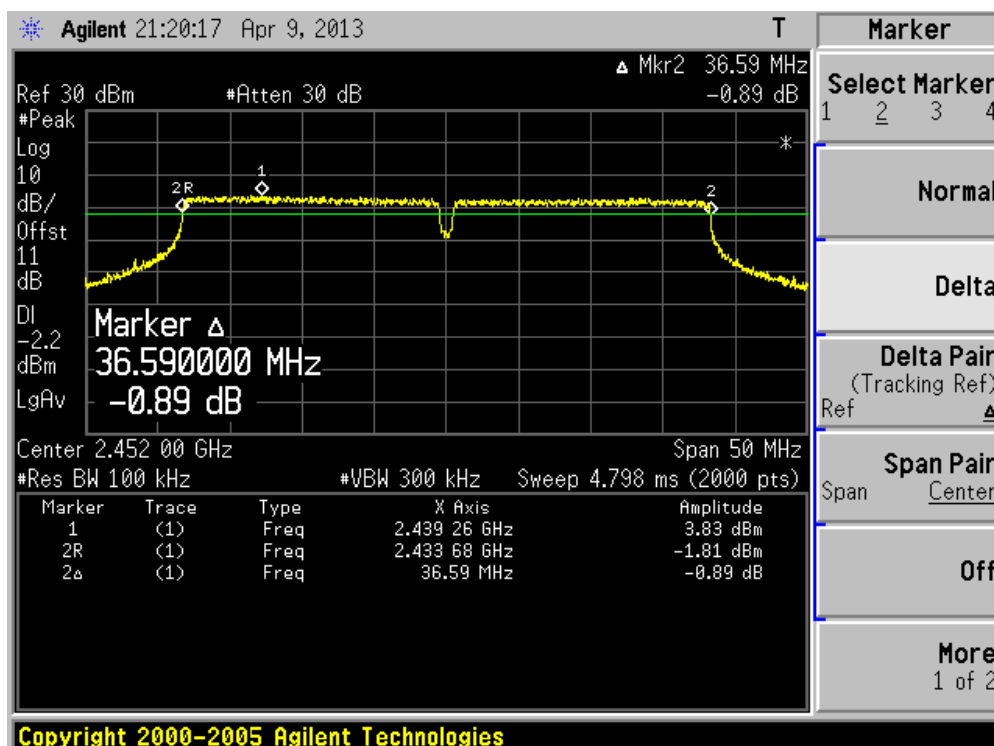
Channel 03 (2422MHz)



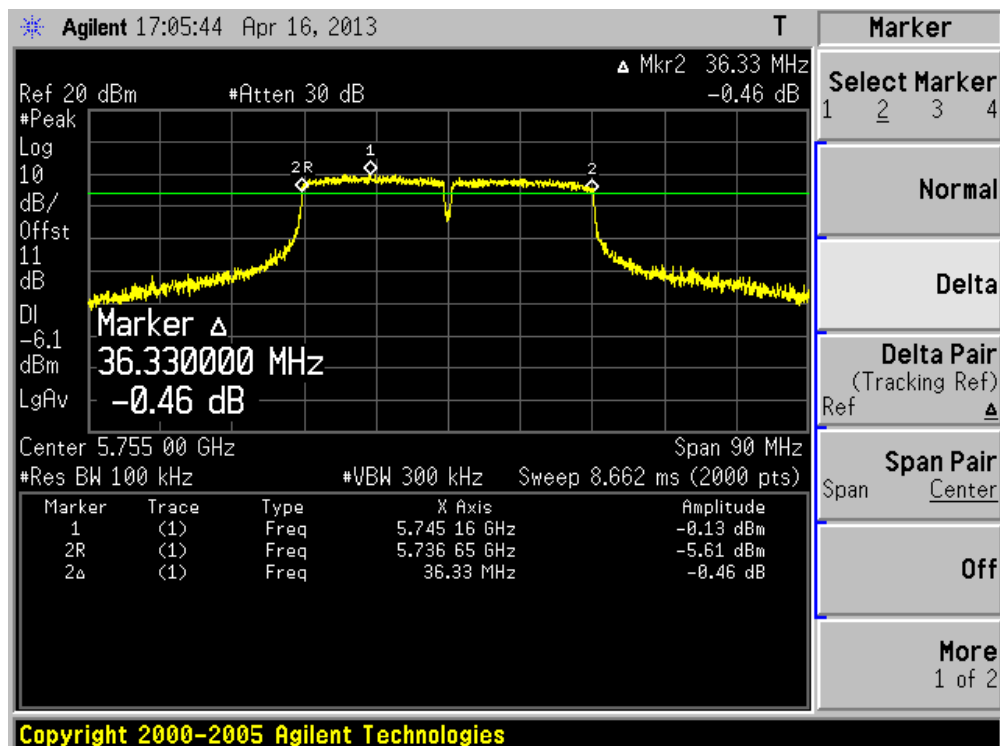
Channel 06 (2437MHz)



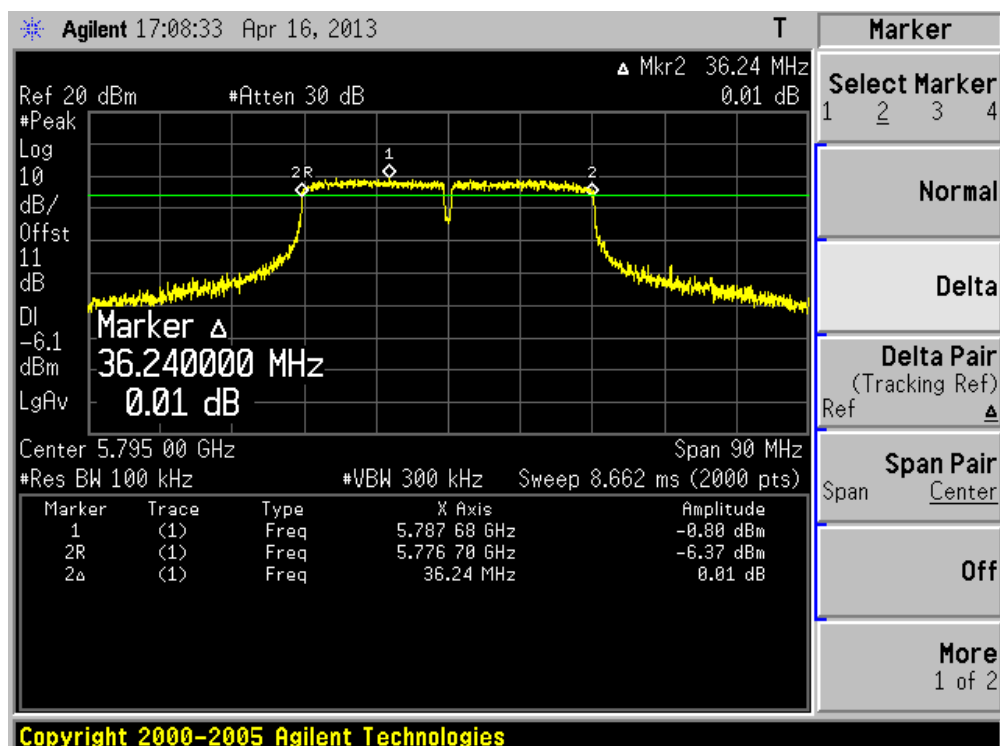
Channel 09 (2452MHz)



Channel 151 (5755MHz)



Channel 159 (5795MHz)



9. Power Output

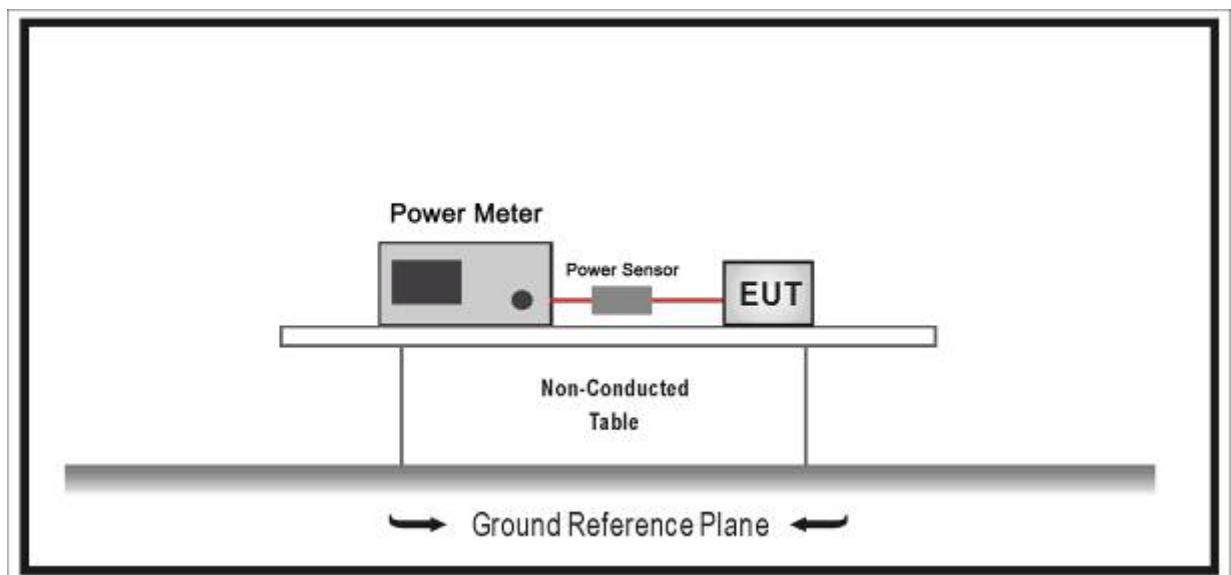
9.1. Test Equipment

Power Output / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2013.11.10
Power Sensor	Anritsu	MA2411B	0846014	2013.11.10
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2014.05.07

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

9.2. Test Setup



9.3. Limit

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

Note: the conducted output power limit specified above is based on the use the antennas with directional gains that do not exceed 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values above, as appropriate, by the amount in dB that the directional gain of antenna exceeds 6 dBi.

1.3. Test Procedure

The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

Use the broadband peak RF power meter to test peak power and record the result.

1.4. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

9.4. Test Result

Power output test was verified over all data rates of each mode shown as below, and then choose the maximum power output (blue marker) for final test of each channel.

MCS Index for 802.11n	Spatial Streams	Data Rate (Mbps)						
		802.11b	802.11g	802.11a	20MHz Bandwidth		40MHz Bandwidth	
					800ns GI	400ns GI	800ns GI	400ns GI
0	1	1	6	6	6.5	7.2	13.5	15.0
1	1	2	9	9	13.0	14.4	27.0	30.0
2	1	5.5	12	12	19.5	21.7	40.5	45.0
3	1	11	18	18	26.0	28.9	54.0	60.0
4	1	---	24	24	39.0	43.3	81.0	90.0
5	1	---	36	36	52.0	57.8	108.0	120.0
6	1	---	48	48	58.5	65.0	121.5	135.0
7	1	---	54	54	65.0	72.2	135.0	150.0
8	2	---	---	---	13.0	14.4	27.0	30.0
9	2	---	---	---	26.0	28.9	54.0	60.0
10	2	---	---	---	39.0	43.3	81.0	90.0
11	2	---	---	---	52.0	57.8	108.0	120.0
12	2	---	---	---	78.0	86.7	162.0	180.0
13	2	---	---	---	104.0	115.6	216.0	240.0
14	2	---	---	---	117.0	130.0	243.0	270.0
15	2	---	---	---	130.0	144.0	270.0	300.0

Power output at various data rates:

Test Mode	Bandwidth	Frequency (MHz)	Channel	Data Rate	Peak Power (dBm)
802.11b(Chain 0)	20	2437	6	1	21.39
				5.5	21.21
				11	20.78
802.11g(Chain 0)	20	2437	6	6	23.56
				24	23.43
				54	23.37
802.11a(Chain 0)	20	5785	157	6	23.46
				24	23.14
				54	22.94
802.11n(Chain 0)	20	2437	6	MCS0	22.24
				MCS4	22.18
				MCS7	22.11
		5785	157	MCS0	23.26
				MCS4	23.25
				MCS7	23.24
802.11n(Chain 0)	40	2437	6	MCS0	23.34
				MCS4	23.15
				MCS7	23.12
		5755	151	MCS0	23.96
				MCS4	22.92
				MCS7	22.89

Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 0)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)			Total Power (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1	Chain 2			
1	2412	20.62	N/A	N/A	20.62	30.00	Pass
6	2437	21.39	N/A	N/A	21.39	30.00	Pass
11	2462	20.44	N/A	N/A	20.44	30.00	Pass

Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 1)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)			Total Power (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1	Chain 2			
1	2412	N/A	17.53	N/A	17.53	30.00	Pass
6	2437	N/A	18.26	N/A	18.26	30.00	Pass
11	2462	N/A	17.79	N/A	17.79	30.00	Pass

Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 0)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)			Total Power (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1	Chain 2			
1	2412	21.86	N/A	N/A	21.86	30.00	Pass
6	2437	23.56	N/A	N/A	23.56	30.00	Pass
11	2462	22.48	N/A	N/A	22.48	30.00	Pass

Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 1)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)			Total Power (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1	Chain 2			
1	2412	N/A	22.36	N/A	22.36	30.00	Pass
6	2437	N/A	23.02	N/A	23.02	30.00	Pass
11	2462	N/A	23.08	N/A	23.08	30.00	Pass

Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 3: Transmit by 802.11a (Chain 0)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)			Total Power (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1	Chain 2			
149	5745	24.37	N/A	N/A	24.37	30.00	Pass
157	5785	23.46	N/A	N/A	23.46	30.00	Pass
165	5825	23.11	N/A	N/A	23.11	30.00	Pass

Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 3: Transmit by 802.11a (Chain 1)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)			Total Power (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1	Chain 2			
149	5745	N/A	23.75	N/A	23.75	30.00	Pass
157	5785	N/A	23.58	N/A	23.58	30.00	Pass
165	5825	N/A	23.46	N/A	23.46	30.00	Pass

Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 4: Transmit by 802.11n(20MHz) (Chain 0)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)			Total Power (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1	Chain 2			
1	2412	21.97	N/A	N/A	21.97	30.00	Pass
6	2437	22.24	N/A	N/A	22.24	30.00	Pass
11	2462	22.29	N/A	N/A	22.29	30.00	Pass
149	5745	23.59	N/A	N/A	23.59	30.00	Pass
157	5785	23.26	N/A	N/A	23.26	30.00	Pass
165	5825	22.86	N/A	N/A	22.86	30.00	Pass

Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 4: Transmit by 802.11n(20MHz) (Chain 1)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)			Total Power (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1	Chain 2			
1	2412	N/A	22.52	N/A	22.52	30.00	Pass
6	2437	N/A	22.83	N/A	22.83	30.00	Pass
11	2462	N/A	23.14	N/A	23.14	30.00	Pass
149	5745	N/A	23.61	N/A	23.61	30.00	Pass
157	5785	N/A	23.39	N/A	23.39	30.00	Pass
165	5825	N/A	23.19	N/A	23.19	30.00	Pass

Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 4: Transmit by 802.11n(20MHz) (Chain 0+1)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)			Total Power (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1	Chain 2			
1	2412	21.56	21.72	N/A	24.65	30.00	Pass
6	2437	23.17	23.24	N/A	26.22	30.00	Pass
11	2462	22.18	22.25	N/A	25.23	30.00	Pass
149	5745	23.37	22.82	N/A	26.11	30.00	Pass
157	5785	23.48	23.01	N/A	26.26	30.00	Pass
165	5825	22.51	23.34	N/A	25.96	30.00	Pass

Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 5: Transmit by 802.11n(40MHz) (Chain 0)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)			Total Power (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1	Chain 2			
3	2422	21.51	N/A	N/A	21.51	30.00	Pass
6	2437	23.34	N/A	N/A	23.34	30.00	Pass
9	2452	21.36	N/A	N/A	21.36	30.00	Pass
151	5755	23.96	N/A	N/A	23.96	30.00	Pass
159	5795	23.95	N/A	N/A	23.95	30.00	Pass

Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 5: Transmit by 802.11n(40MHz) (Chain 1)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)			Total Power (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1	Chain 2			
3	2422	N/A	21.89	N/A	21.89	30.00	Pass
6	2437	N/A	23.64	N/A	23.64	30.00	Pass
9	2452	N/A	22.62	N/A	22.62	30.00	Pass
151	5755	N/A	23.64	N/A	23.64	30.00	Pass
159	5795	N/A	23.42	N/A	23.42	30.00	Pass

Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 5: Transmit by 802.11n(40MHz) (Chain 0+1)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)			Total Power (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1	Chain 2			
3	2422	21.87	21.82	N/A	24.86	30.00	Pass
6	2437	23.49	23.41	N/A	26.46	30.00	Pass
9	2452	21.93	21.78	N/A	24.87	30.00	Pass
151	5755	23.37	22.56	N/A	25.99	30.00	Pass
159	5795	22.09	22.39	N/A	25.25	30.00	Pass

10. Power Spectral Density

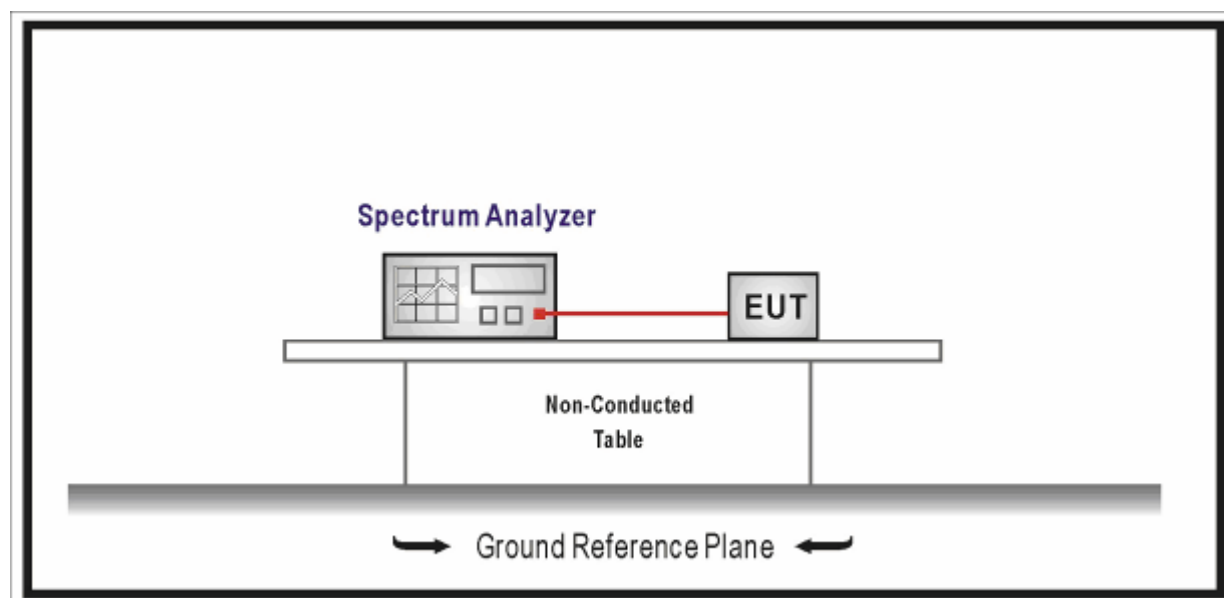
10.1. Test Equipment

Power Spectral Density / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2014.01.21
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2014.05.07

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

10.2. Test Setup



10.3. 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.

1.5. Test Procedure

The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

Set analyzer center frequency to DTS channel center frequency, the span to 1.5 times the DTS channel bandwidth, $RBW \geq 3 \text{ kHz}$, Set $VBW \geq 3 * RBW$, Sweep time = auto couple, Detector = peak, Trace mode = max hold, Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level. If measured value exceed limit reduce RBW (no less than 3kHz) and repeat.

1.6. Uncertainty

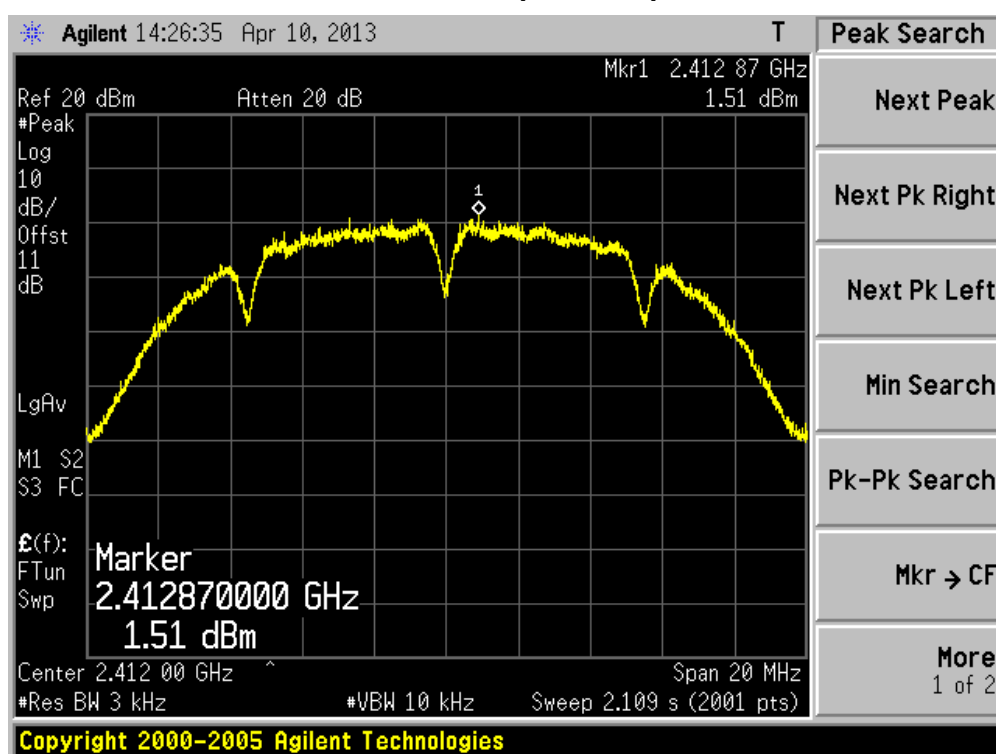
The measurement uncertainty is defined as $\pm 1.27 \text{ dB}$

10.4. Test Result

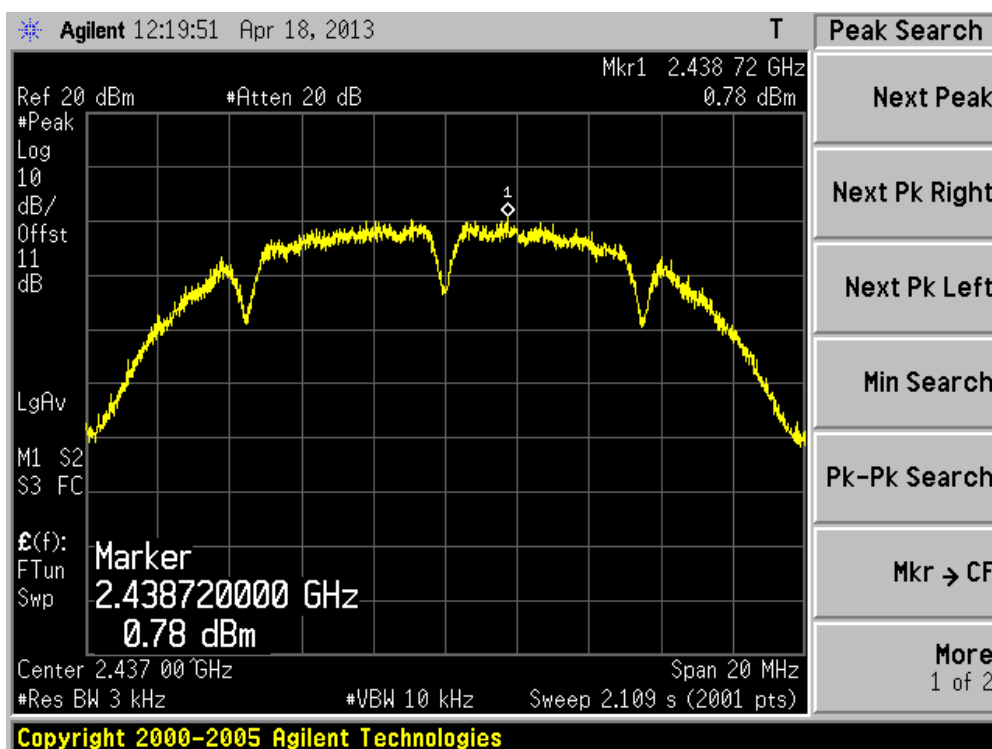
Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 0)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1			
01	2412	1.51	N/A	1.51	8	Pass
06	2437	0.78	N/A	0.78	8	Pass
11	2462	2.89	N/A	2.89	8	Pass

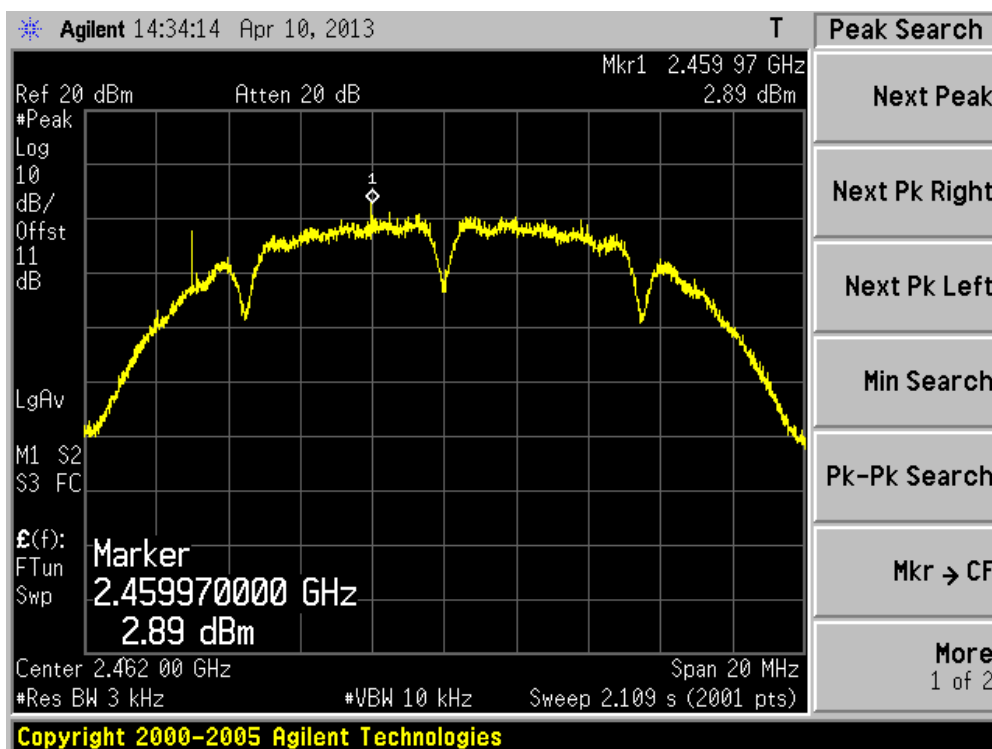
Channel 01 (2412MHz)



Channel 06 (2437MHz)



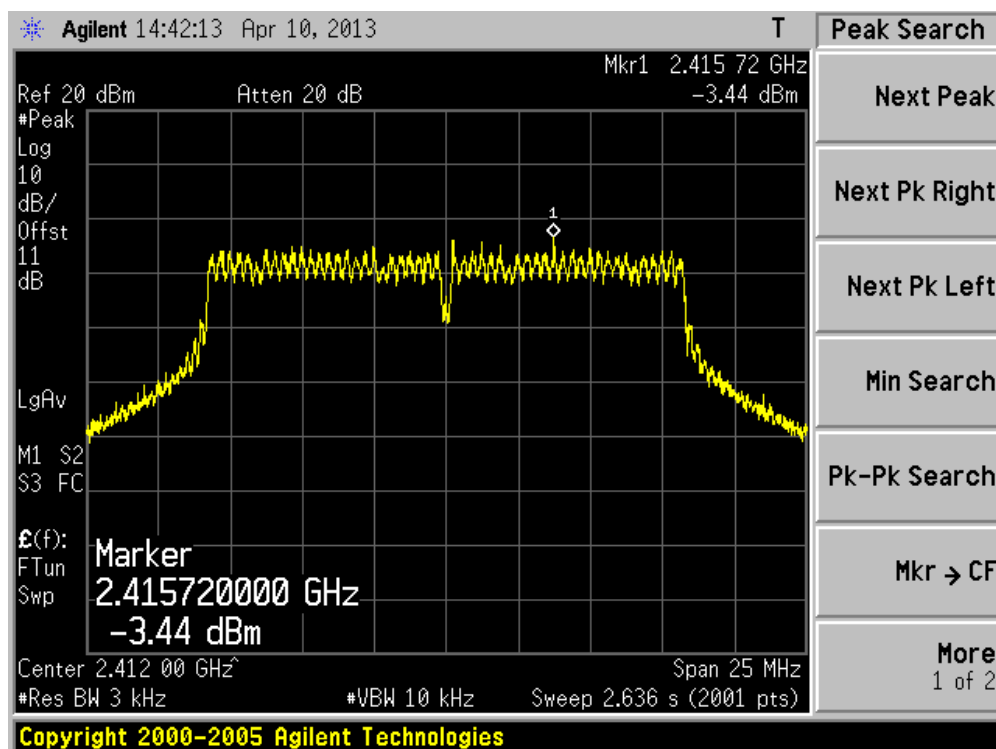
Channel 11 (2462MHz)



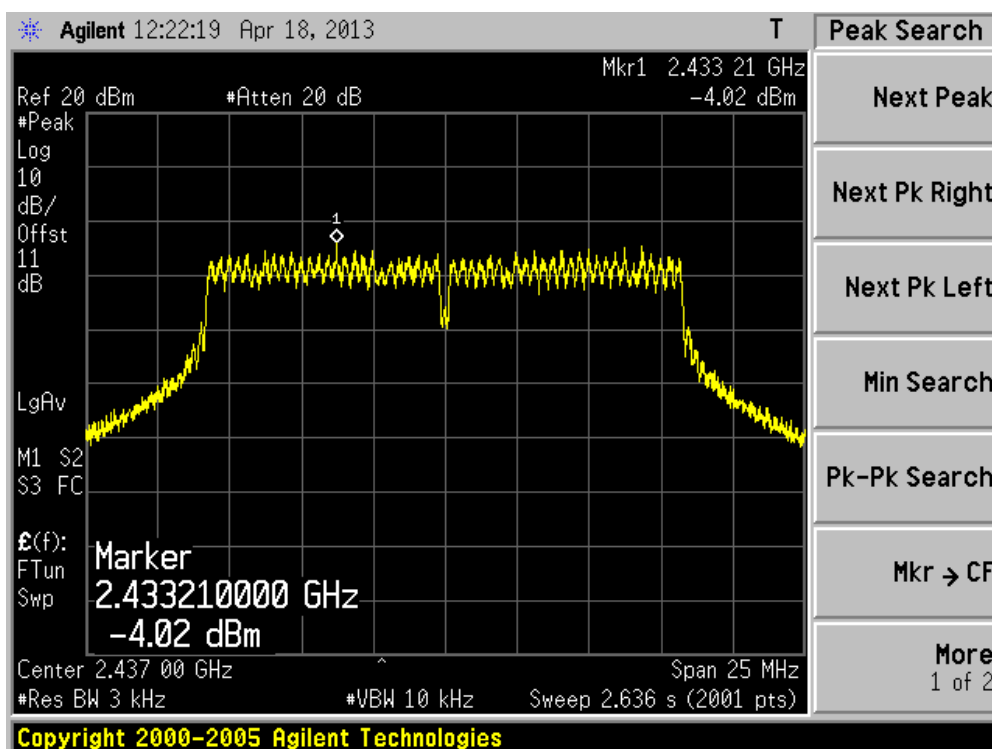
Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 0)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1			
01	2412	-3.44	N/A	-3.44	8	Pass
06	2437	-4.02	N/A	-4.02	8	Pass
11	2462	-5.59	N/A	-5.59	8	Pass

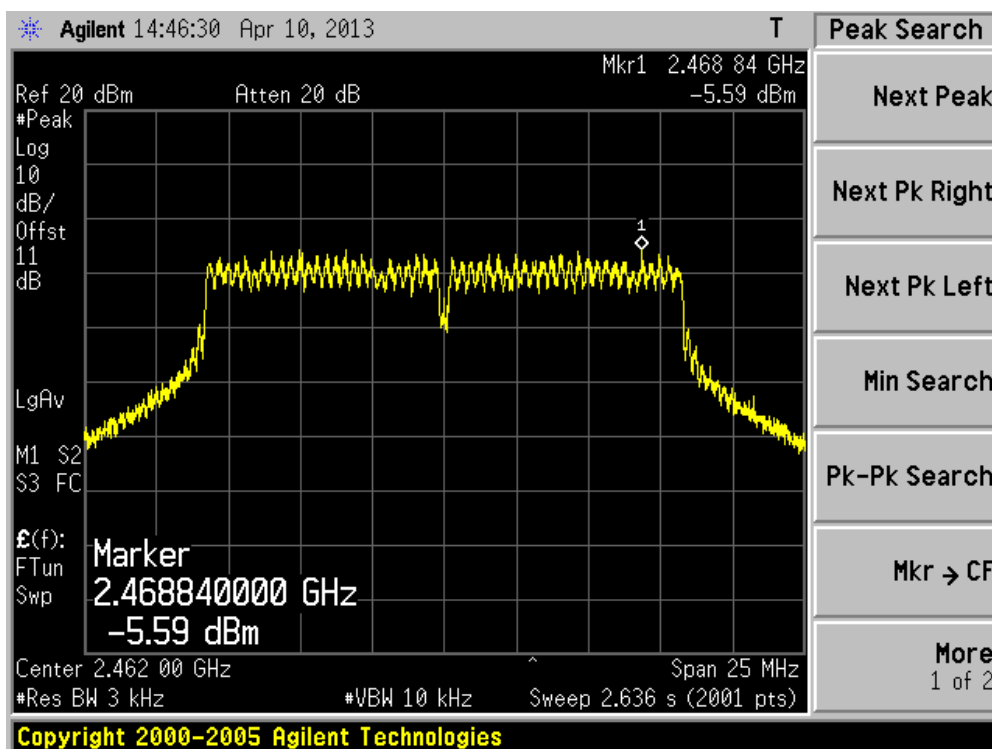
Channel 01 (2412MHz)



Channel 06 (2437MHz)



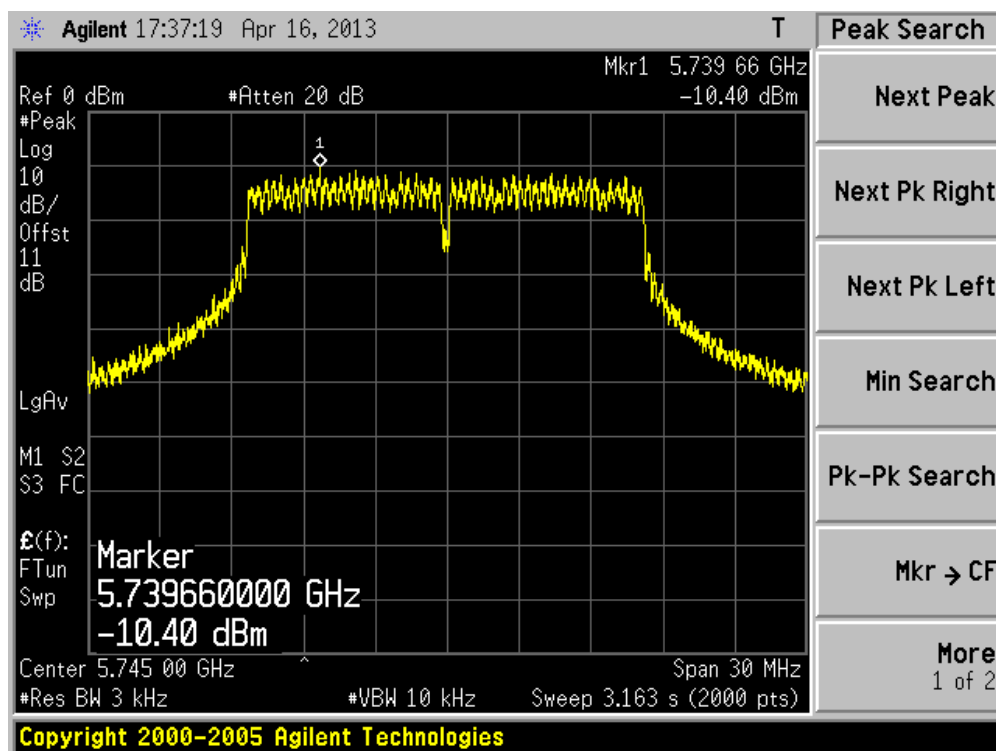
Channel 11 (2462MHz)



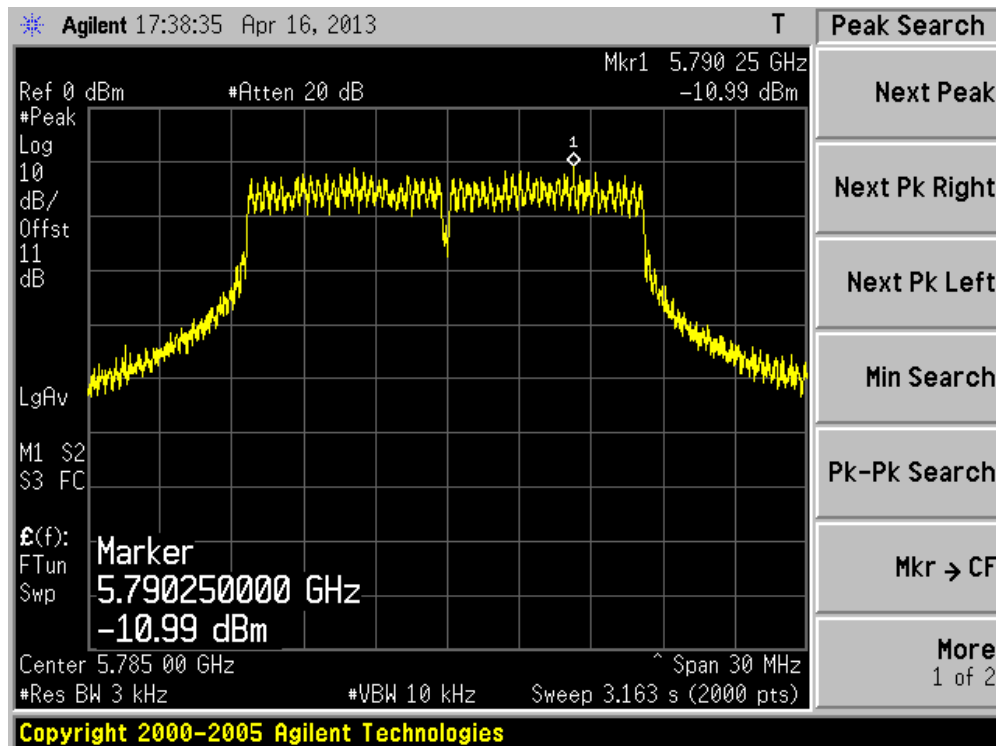
Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11a (Chain 0)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1			
149	5745	-10.40	N/A	-10.40	8	Pass
157	5785	-10.99	N/A	-10.99	8	Pass
165	5825	-11.01	N/A	-11.01	8	Pass

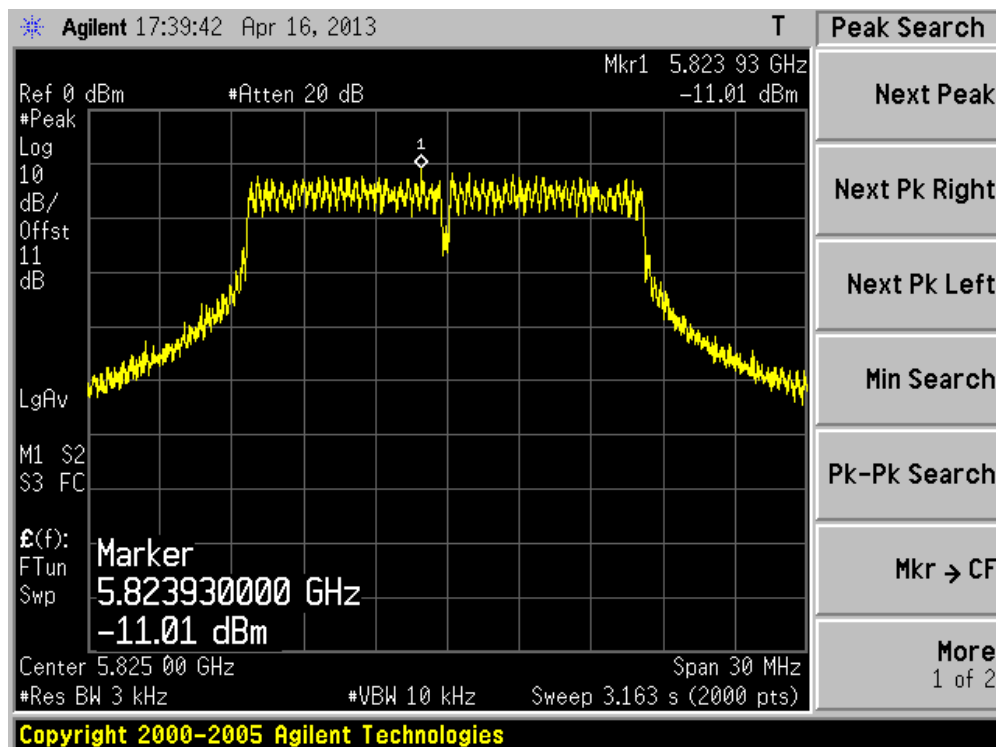
Channel 149 (5745MHz)



Channel 157 (5785MHz)



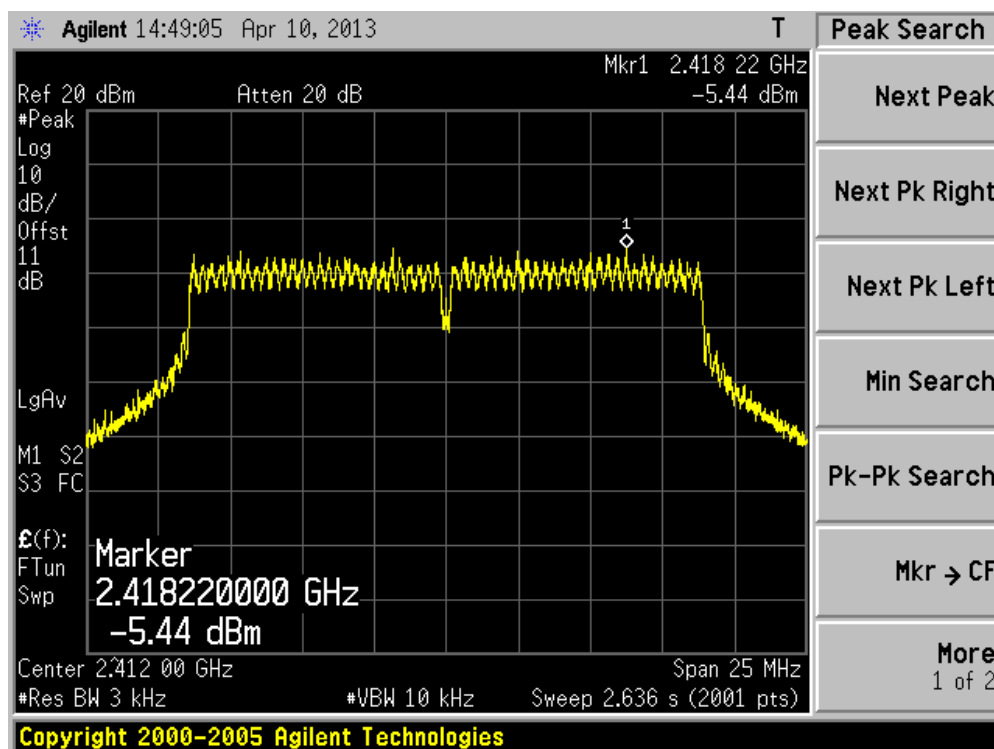
Channel 165 (5825MHz)



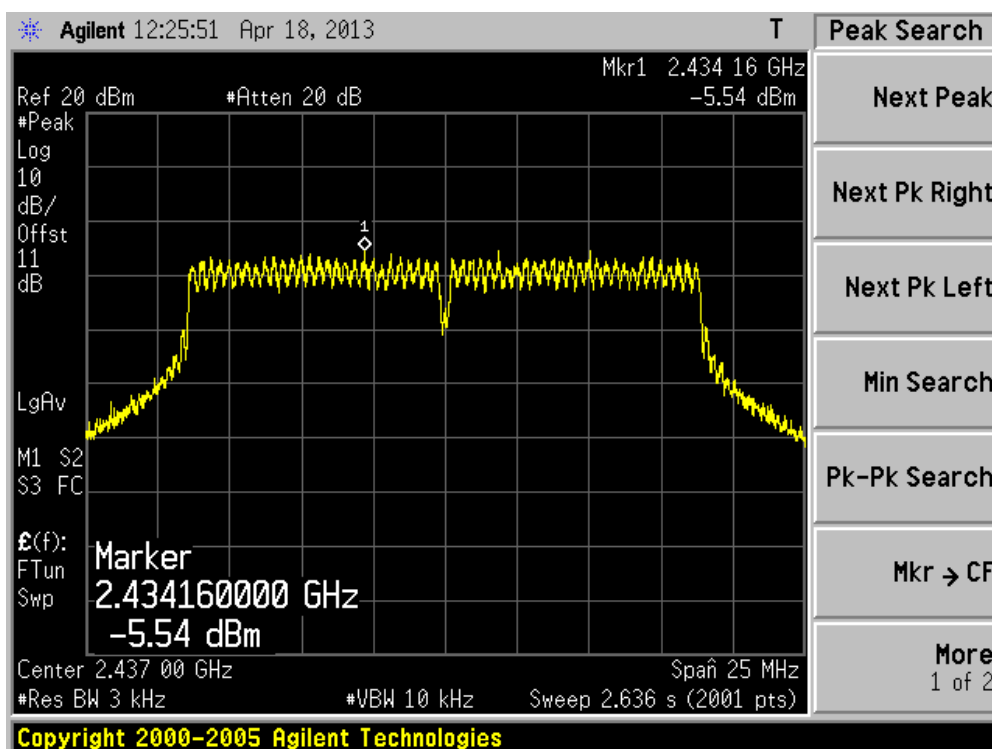
Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n (20MHz) (Chain 0)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1			
01	2412	-5.44	N/A	-5.44	8	Pass
06	2437	-5.54	N/A	-5.54	8	Pass
11	2462	-6.53	N/A	-6.53	8	Pass
149	5745	-11.69	N/A	-11.69	8	Pass
157	5785	-11.67	N/A	-11.67	8	Pass
165	5825	-12.11	N/A	-12.11	8	Pass

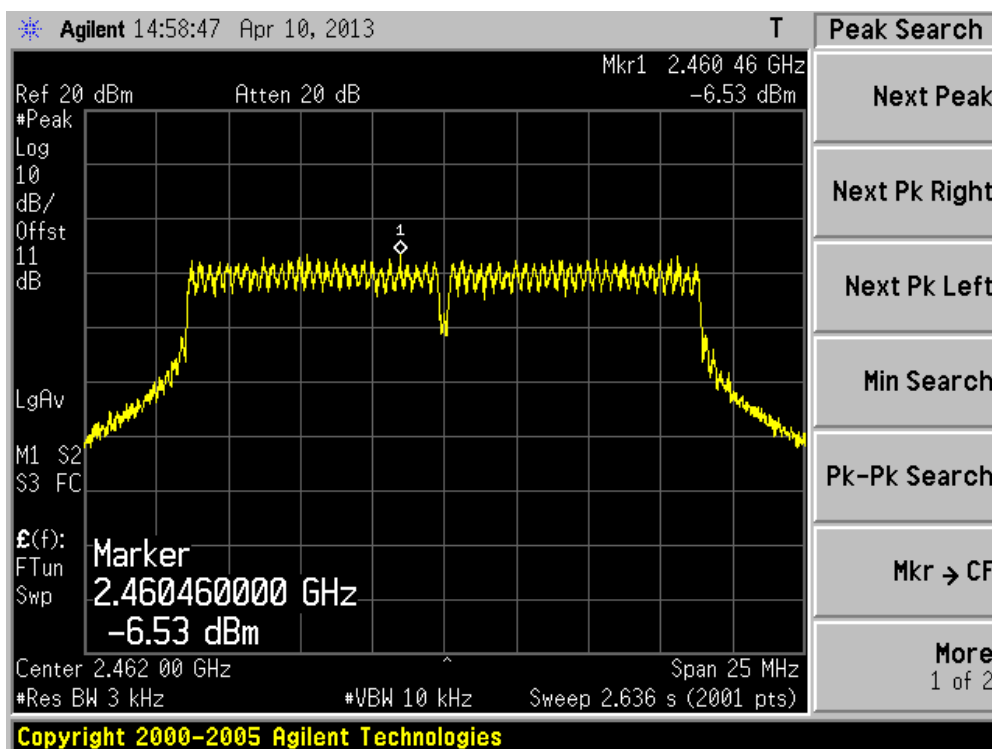
Channel 01 (2412MHz)



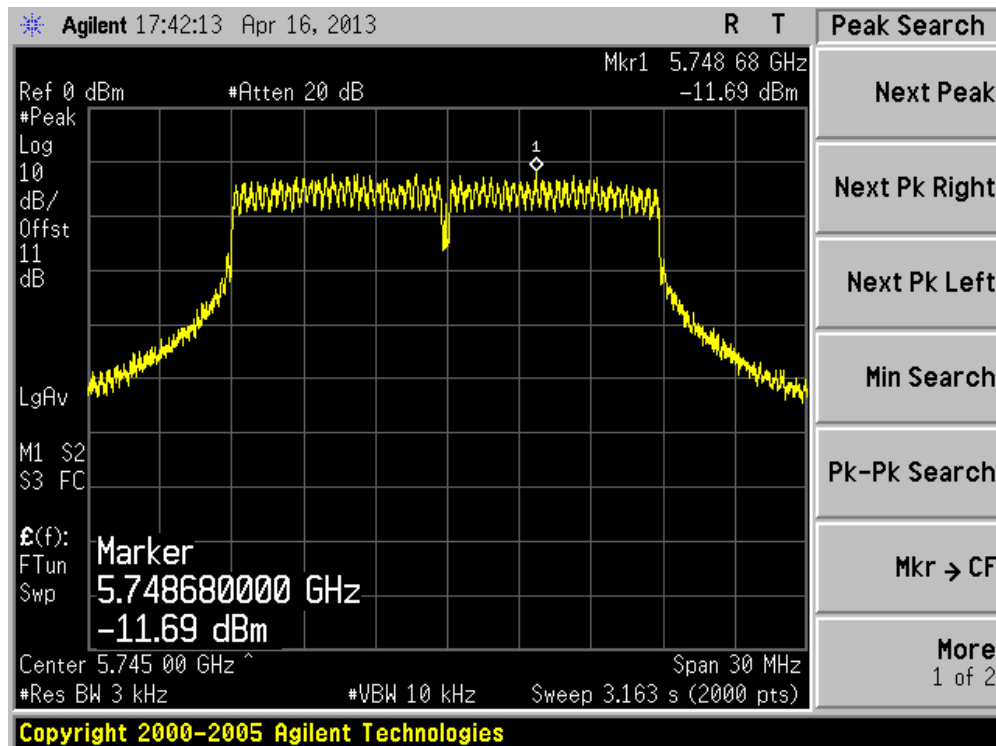
Channel 06 (2437MHz)



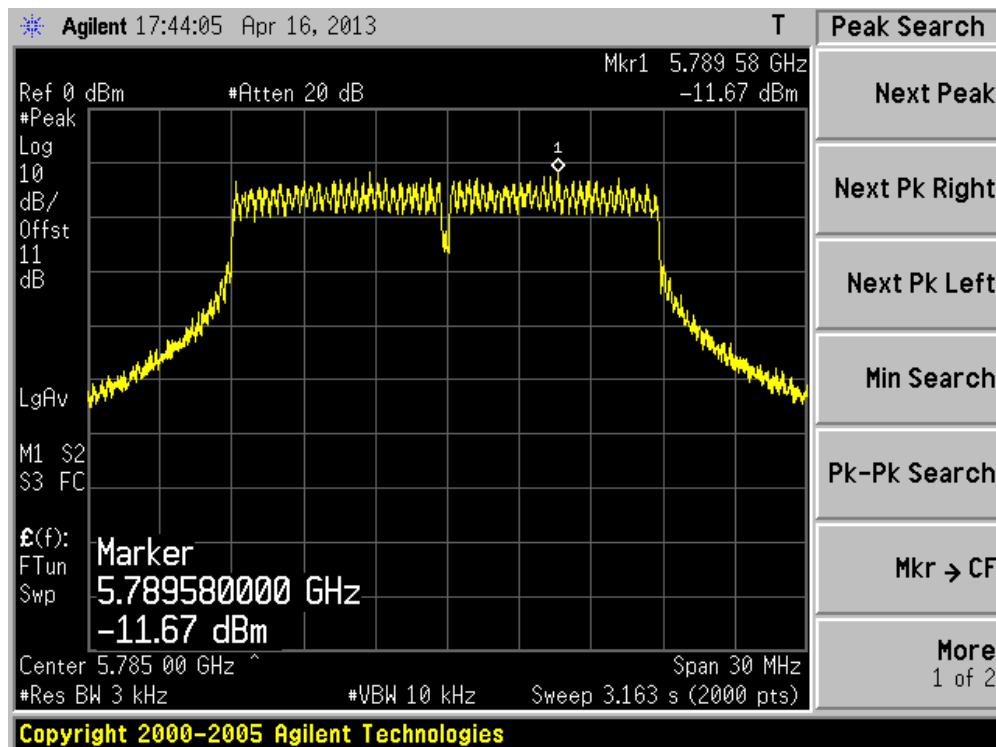
Channel 11 (2462MHz)



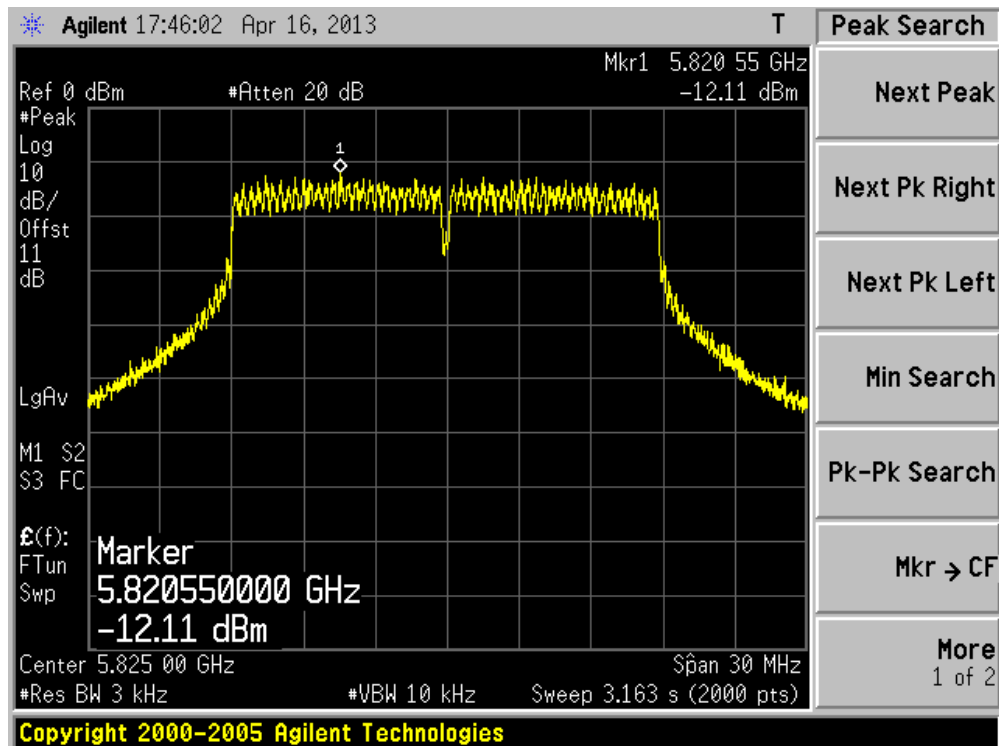
Channel 149 (5745MHz)



Channel 157 (5785MHz)



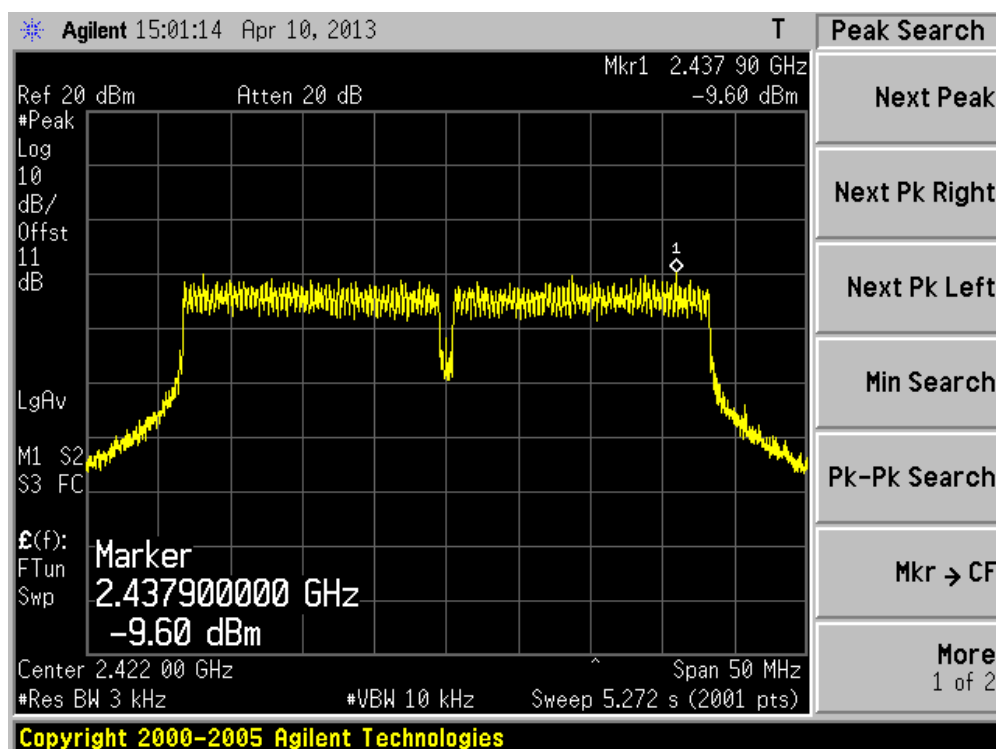
Channel 165 (5825MHz)



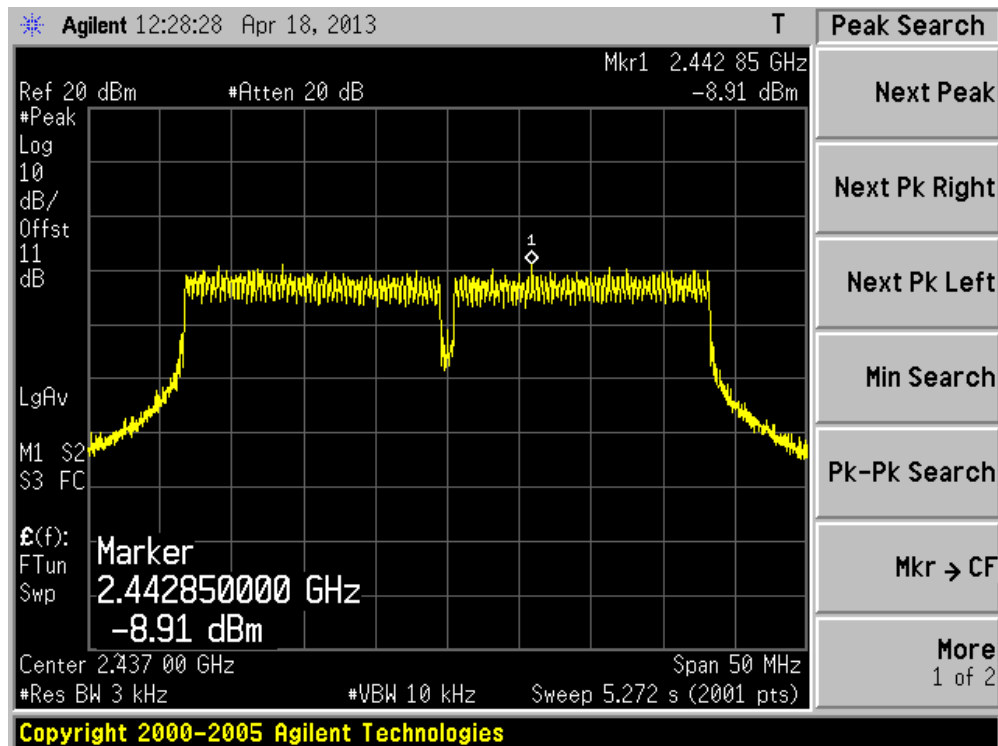
Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 5: Transmit by 802.11n (40MHz) (Chain 0)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1			
03	2422	-9.60	N/A	-9.60	8	Pass
06	2437	-8.91	N/A	-8.91	8	Pass
09	2452	-10.10	N/A	-10.10	8	Pass
151	5755	-16.77	N/A	-16.77	8	Pass
159	5795	-13.62	N/A	-13.62	8	Pass

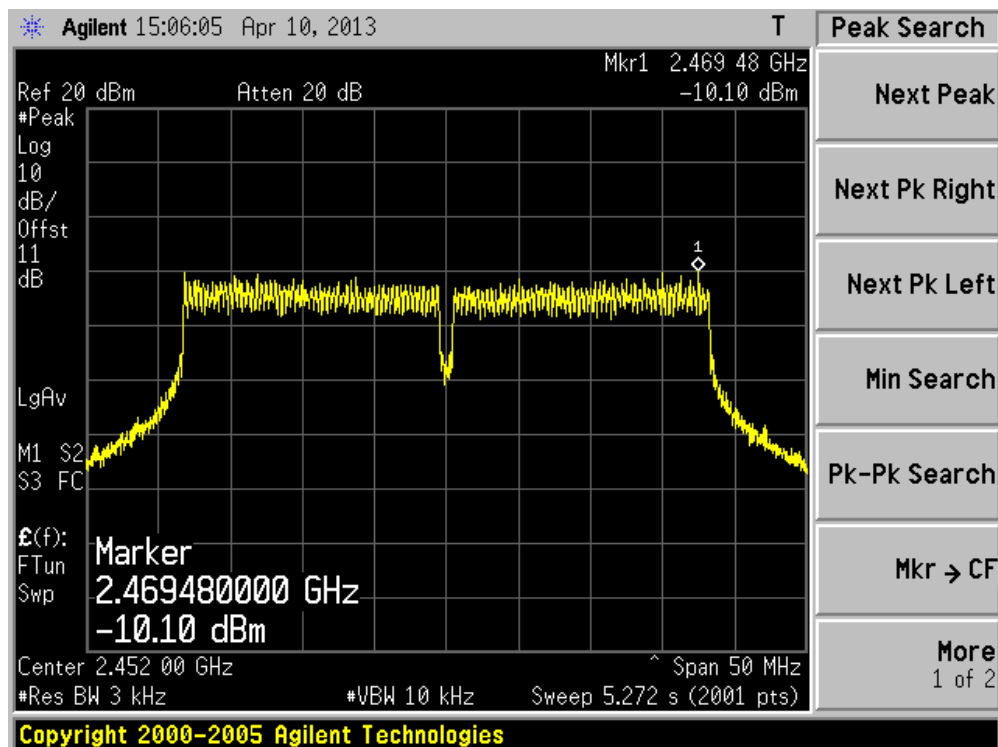
Channel 03 (2422MHz)



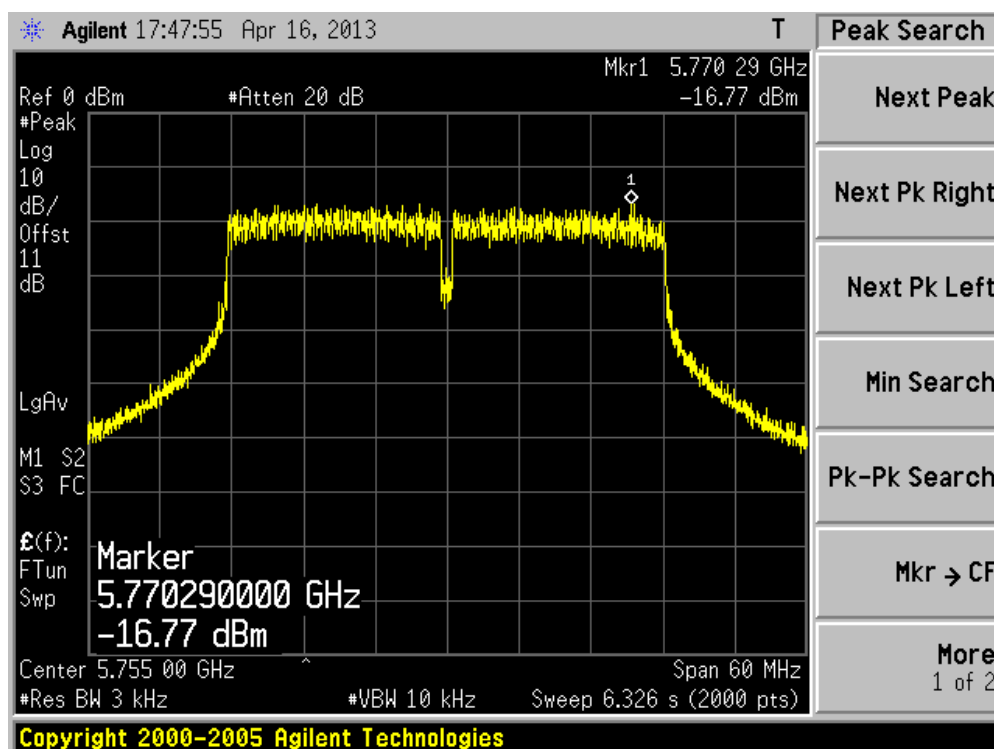
Channel 06 (2437MHz)



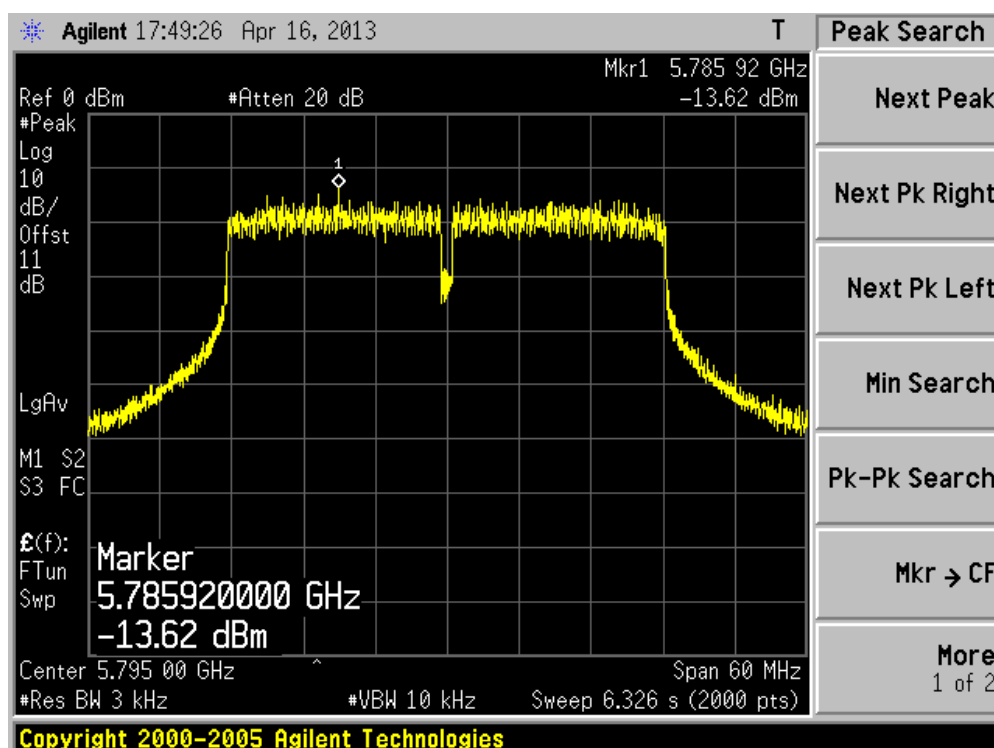
Channel 09 (2452MHz)



Channel 151 (5755MHz)



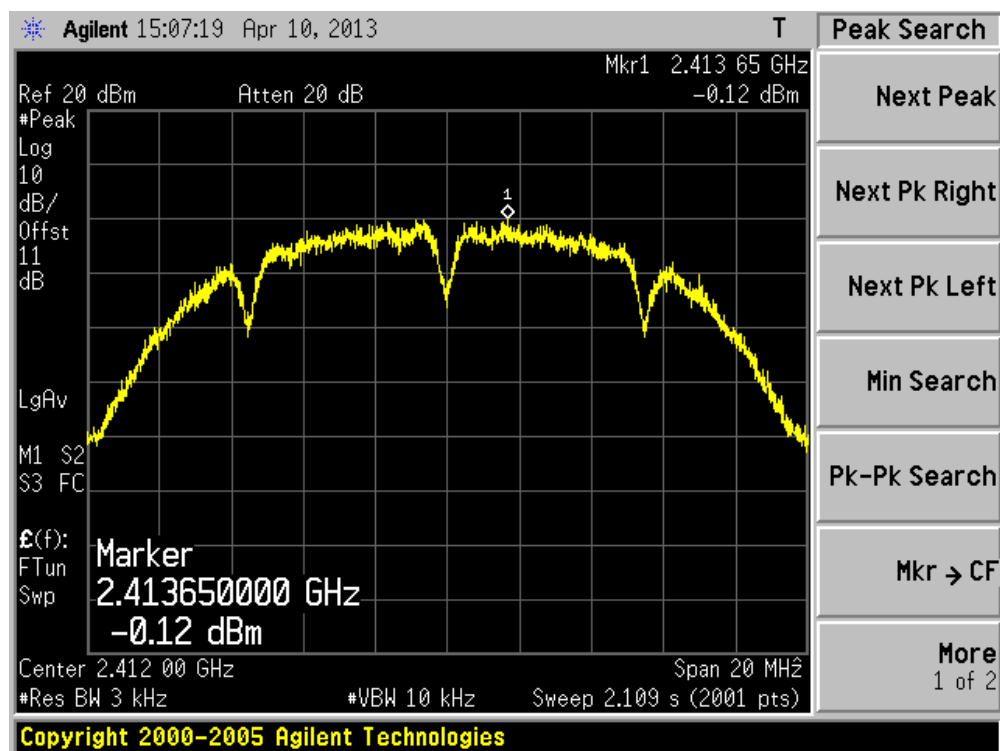
Channel 159 (5795MHz)



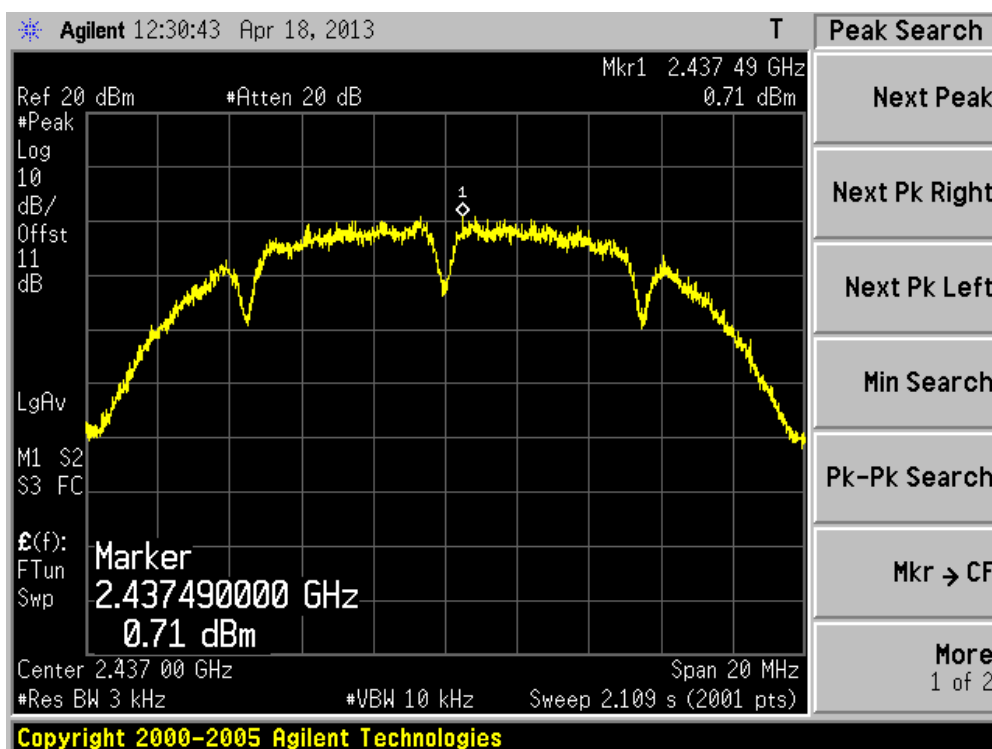
Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 1)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1			
01	2412	N/A	-0.12	-0.12	8	Pass
06	2437	N/A	0.71	0.71	8	Pass
11	2462	N/A	1.93	1.93	8	Pass

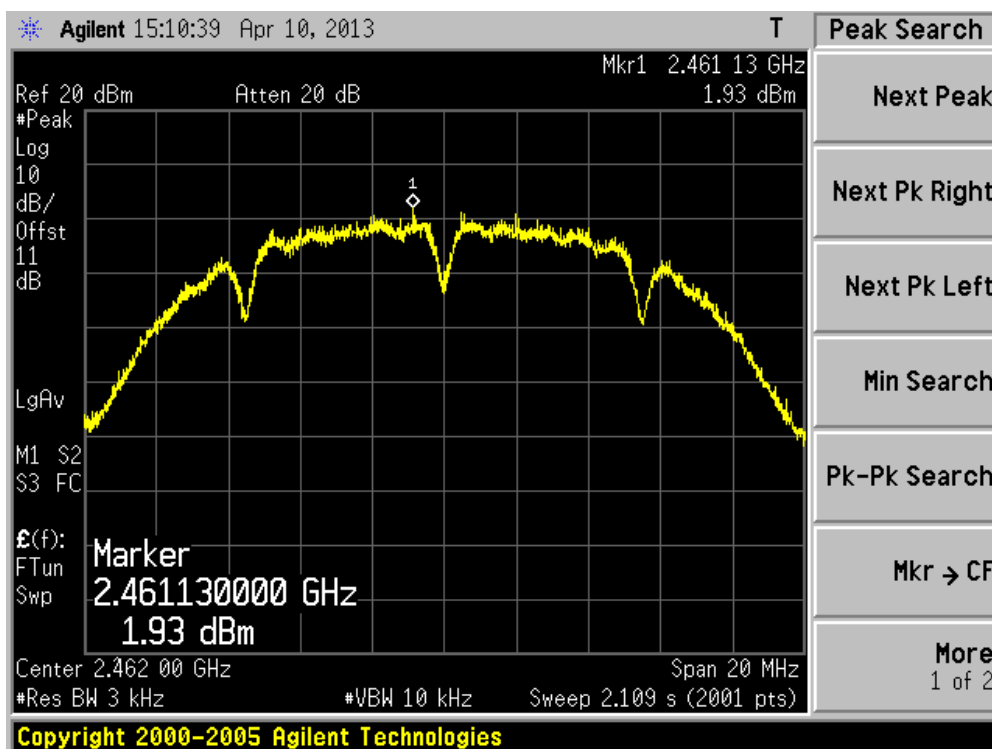
Channel 01 (2412MHz)



Channel 06 (2437MHz)



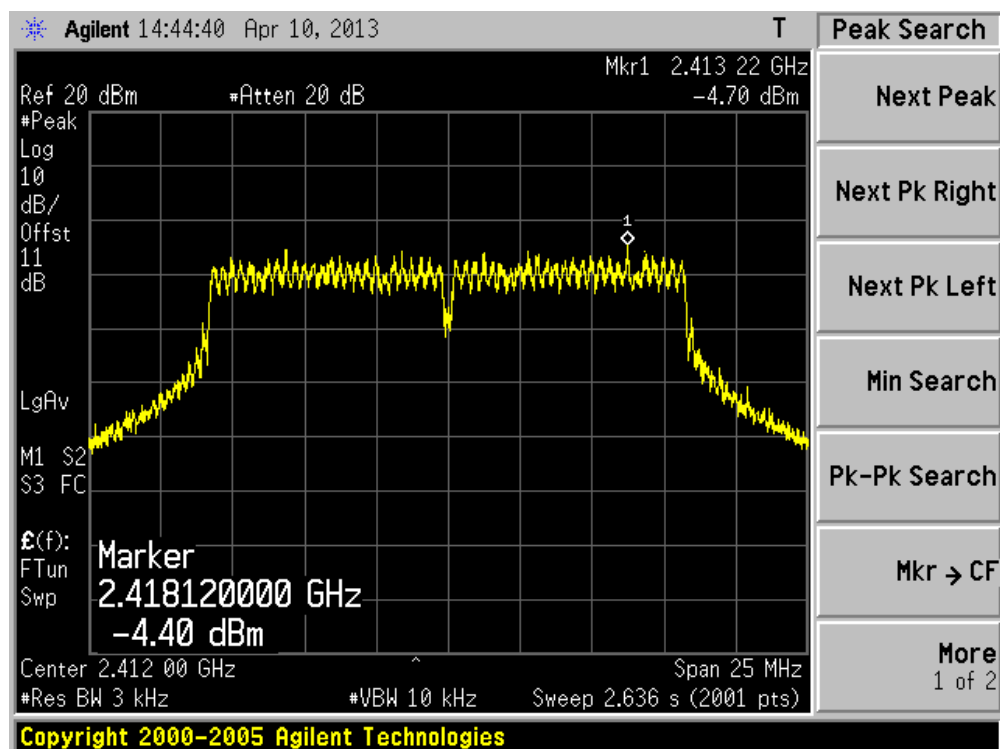
Channel 11 (2462MHz)



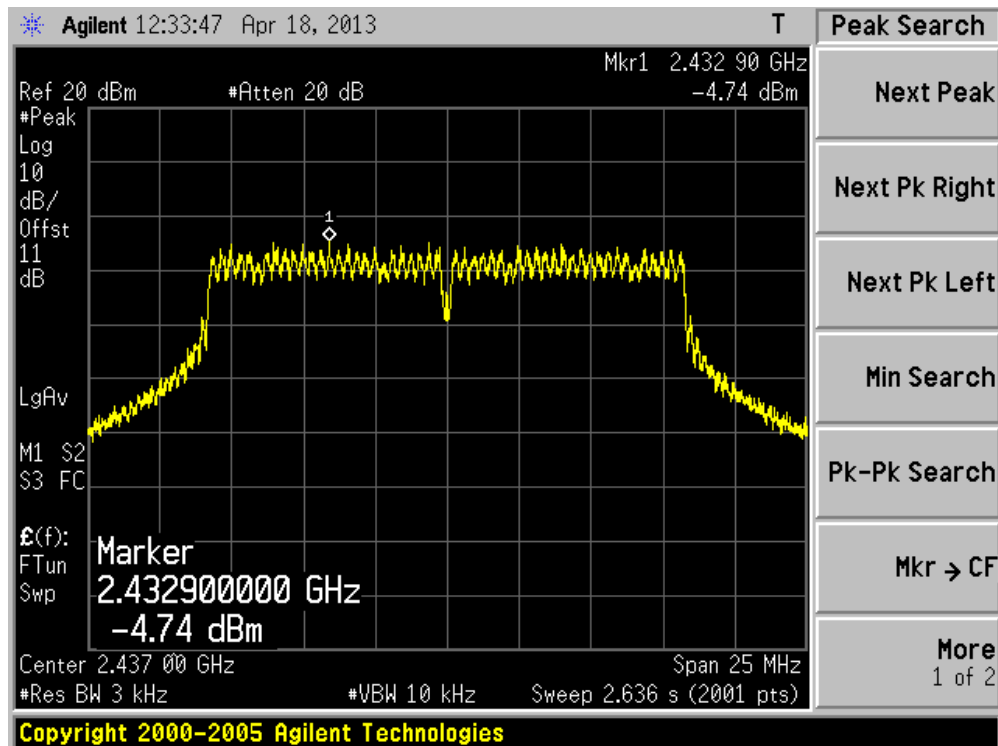
Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 1)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1			
01	2412	N/A	-4.40	-4.40	8	Pass
06	2437	N/A	-4.74	-4.74	8	Pass
11	2462	N/A	-4.56	-4.56	8	Pass

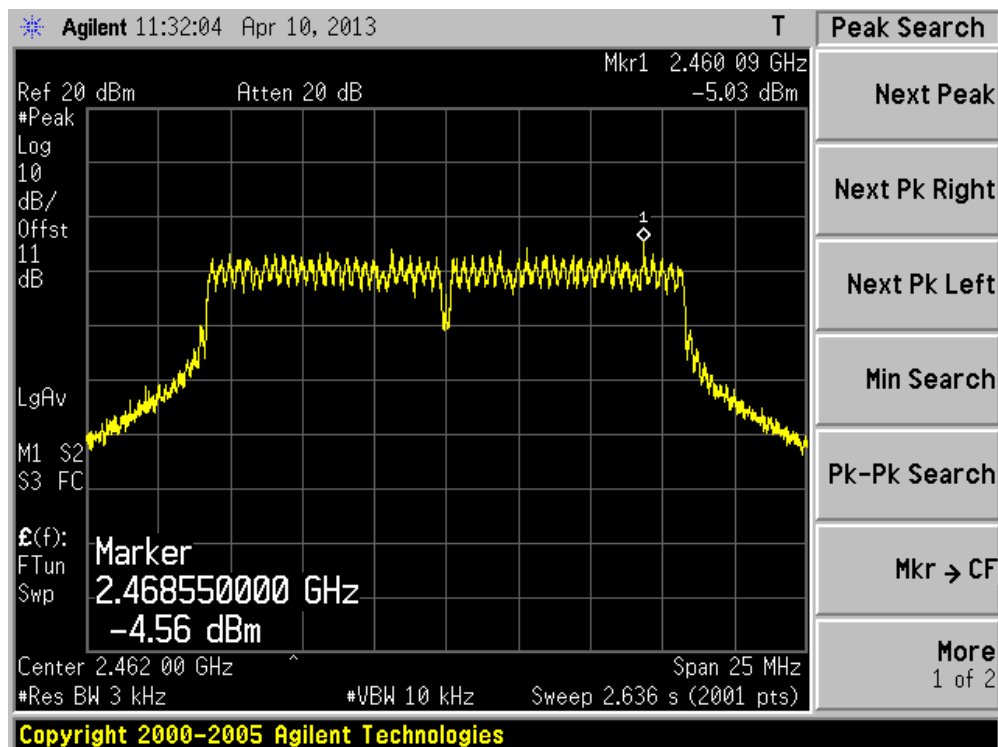
Channel 01 (2412MHz)



Channel 06 (2437MHz)



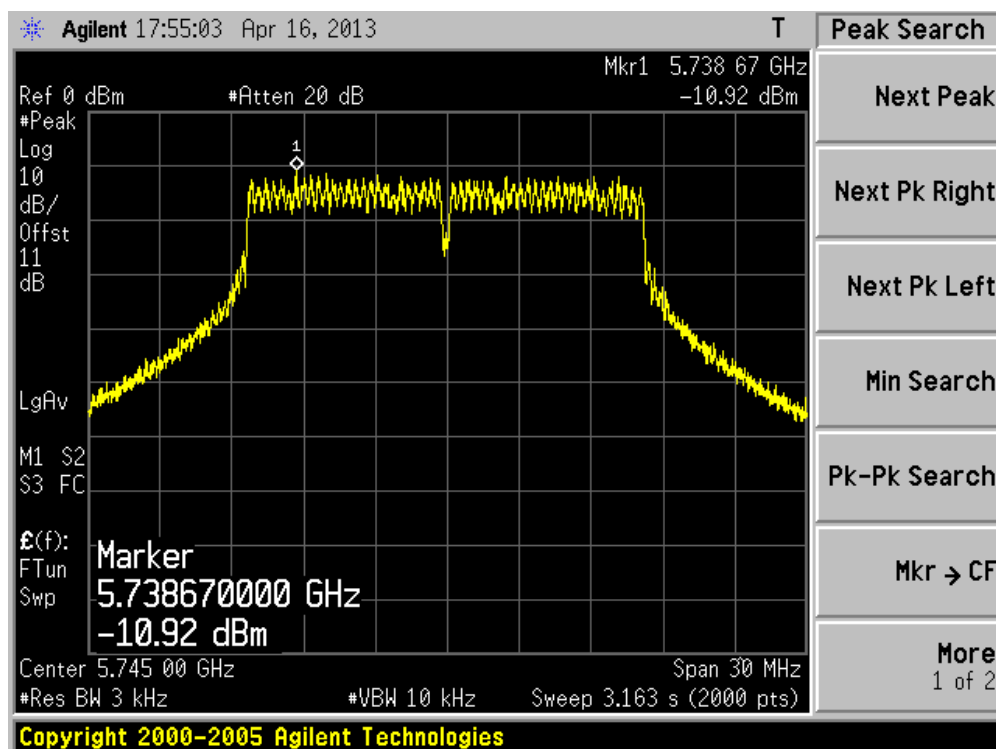
Channel 11 (2462MHz)



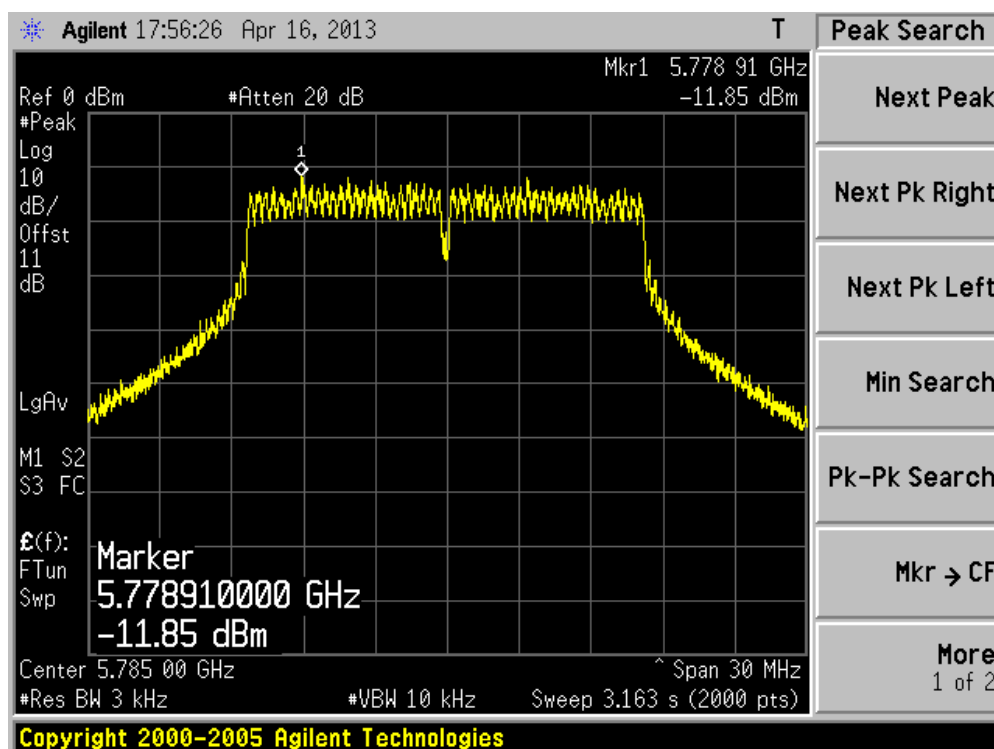
Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11a (Chain 1)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1			
149	5745	N/A	-10.92	-10.92	8	Pass
157	5785	N/A	-11.85	-11.85	8	Pass
165	5825	N/A	-12.72	-12.72	8	Pass

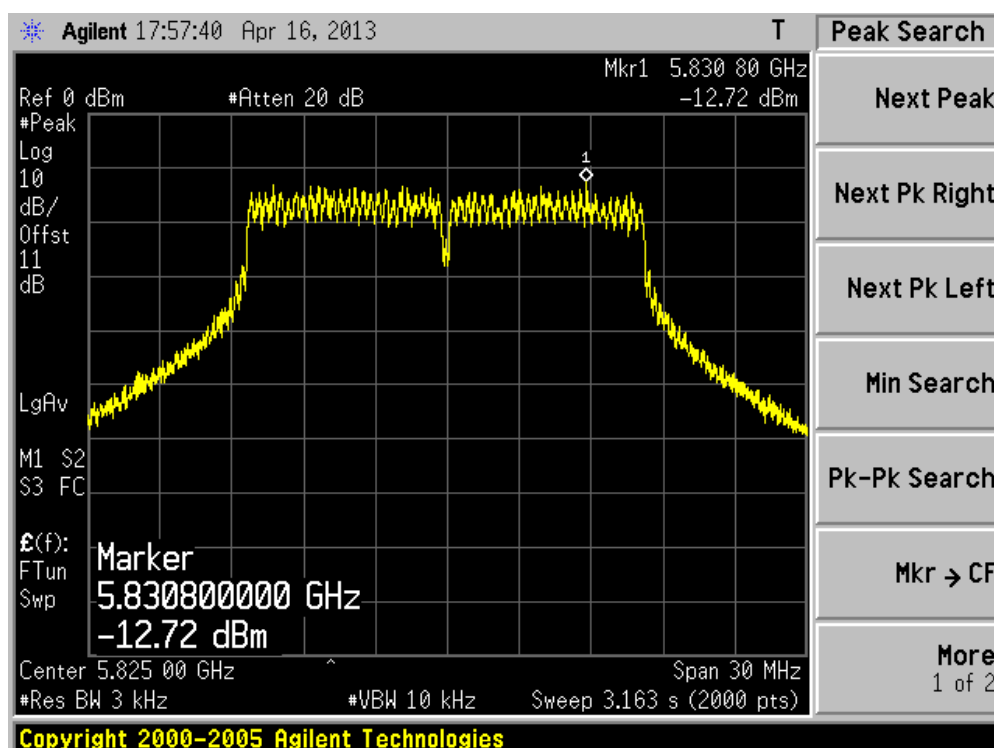
Channel 149 (5745MHz)



Channel 157 (5785MHz)



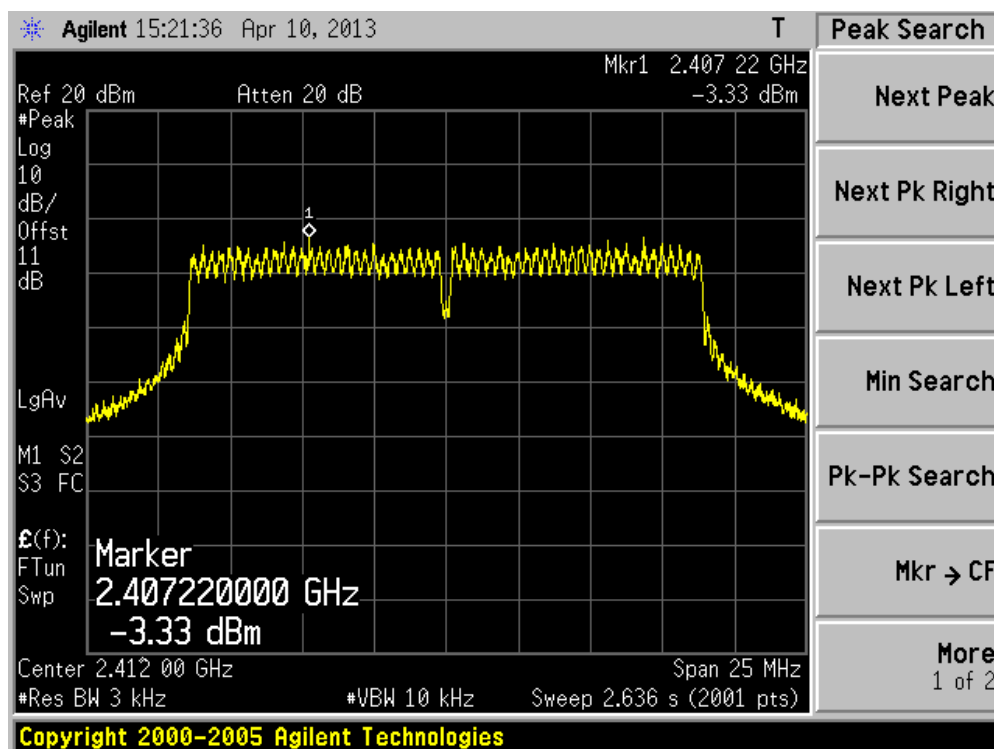
Channel 165 (5825MHz)



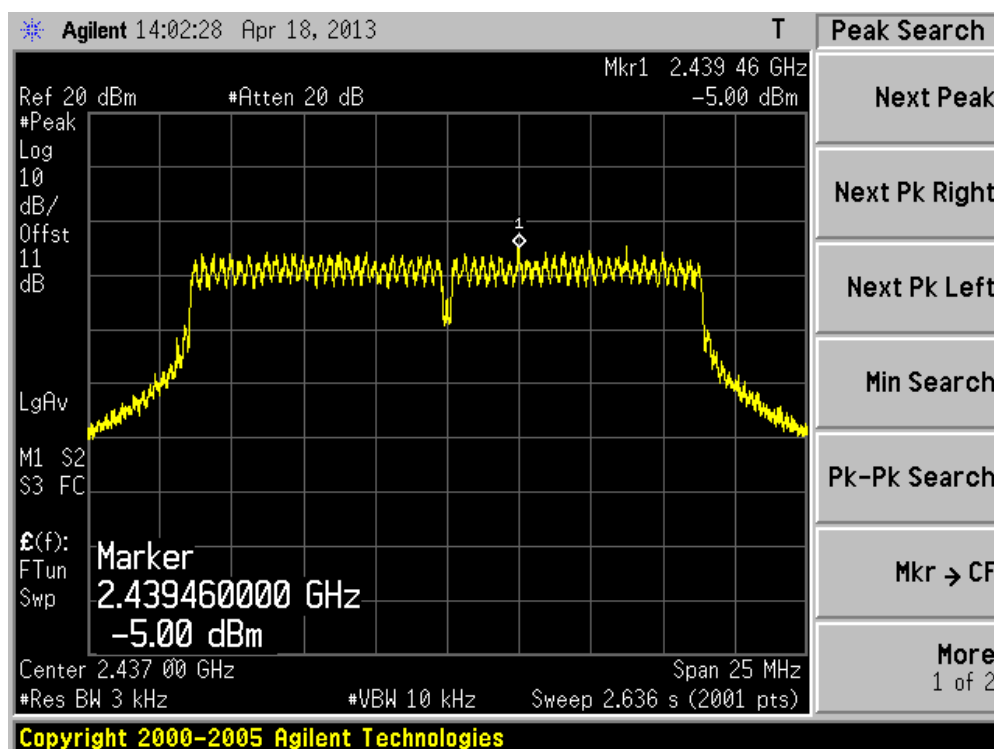
Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n (20MHz) (Chain 1)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1			
01	2412	N/A	-3.33	-3.33	8	Pass
06	2437	N/A	-5.00	-5.00	8	Pass
11	2462	N/A	-4.59	-4.59	8	Pass
149	5745	N/A	-12.83	-12.83	8	Pass
157	5785	N/A	-13.65	-13.65	8	Pass
165	5825	N/A	-13.65	-13.65	8	Pass

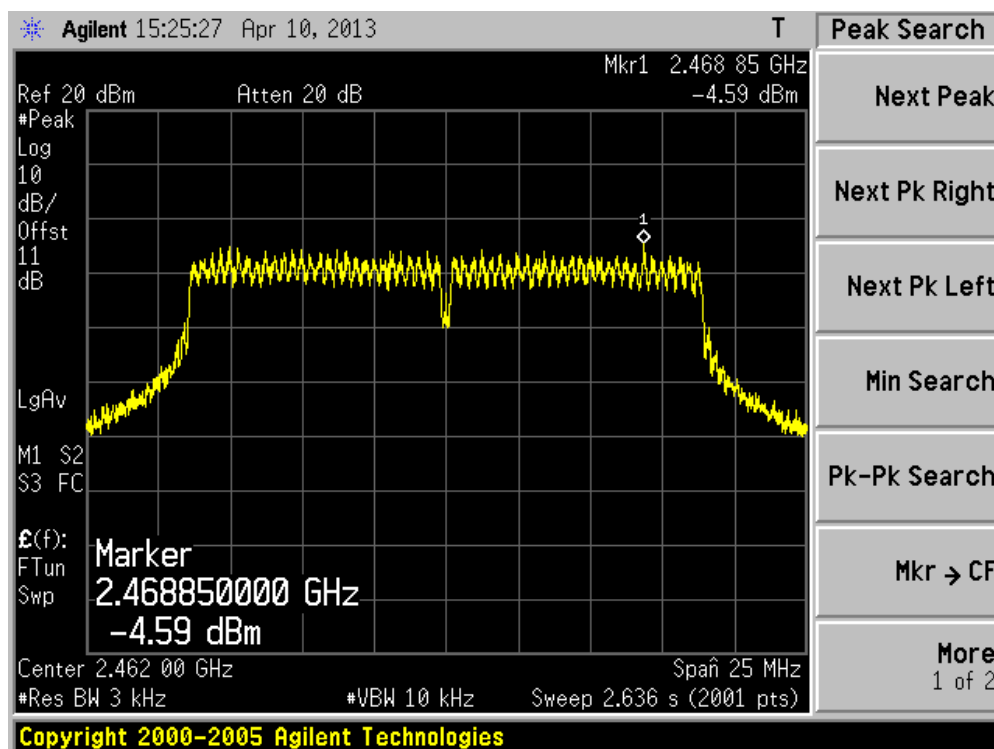
Channel 01 (2412MHz)



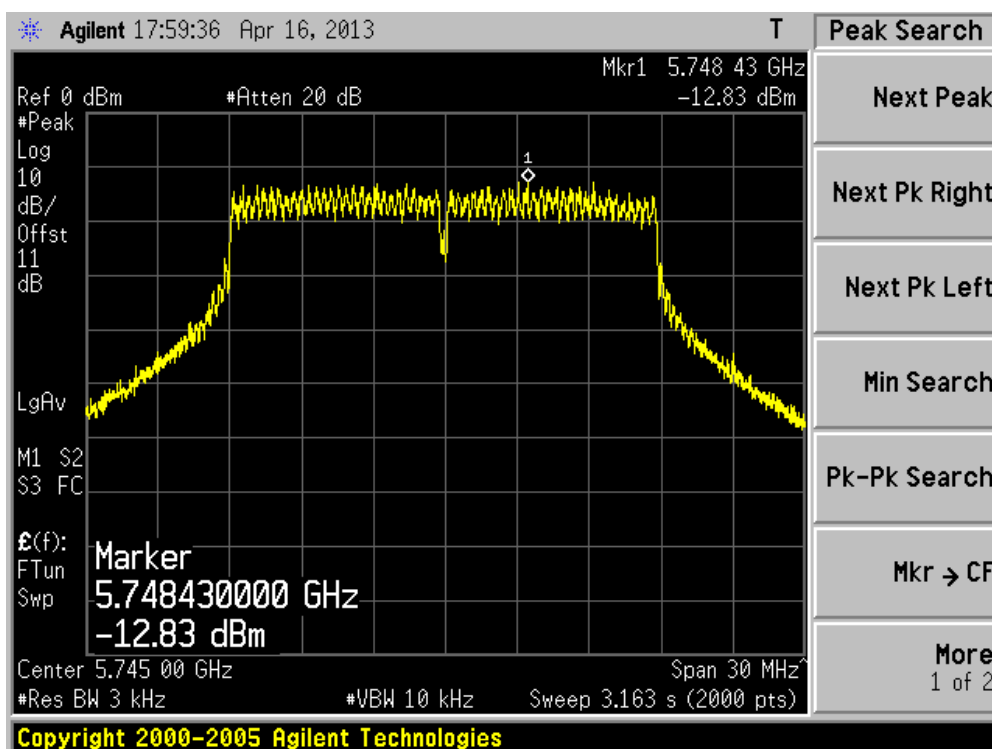
Channel 06 (2437MHz)



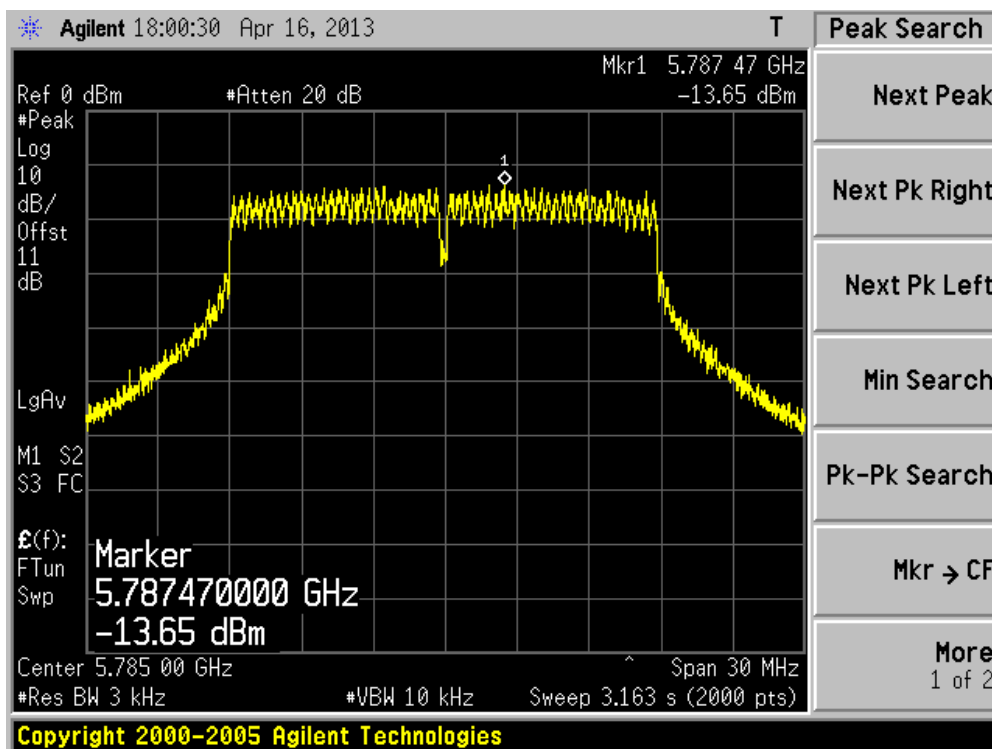
Channel 11 (2462MHz)



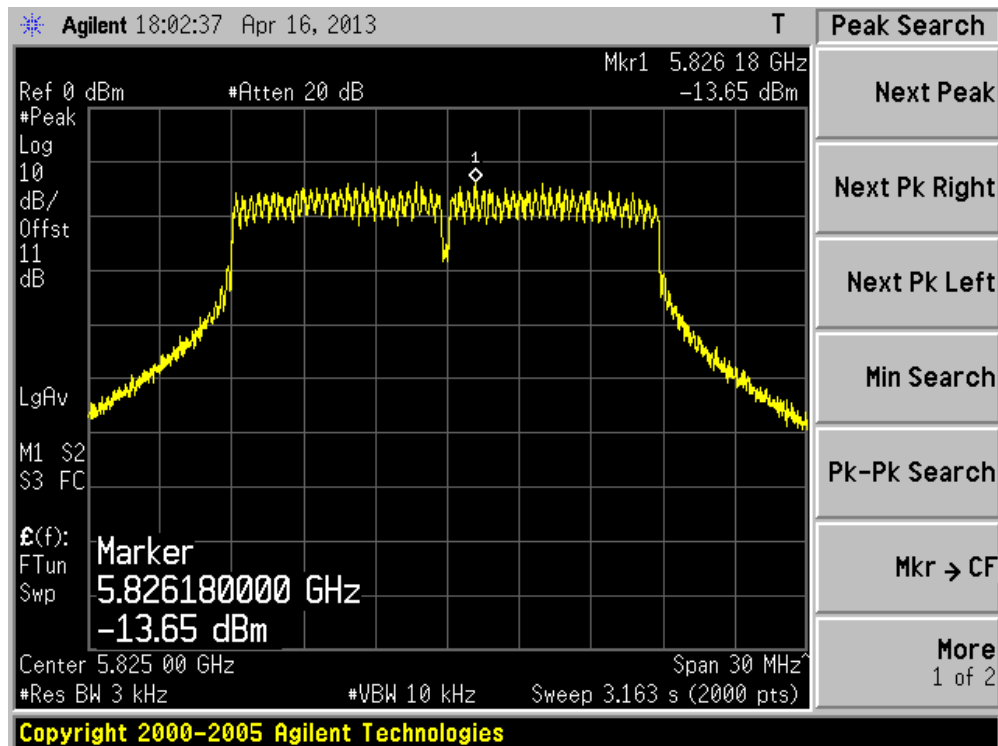
Channel 149 (5745MHz)



Channel 157 (5785MHz)



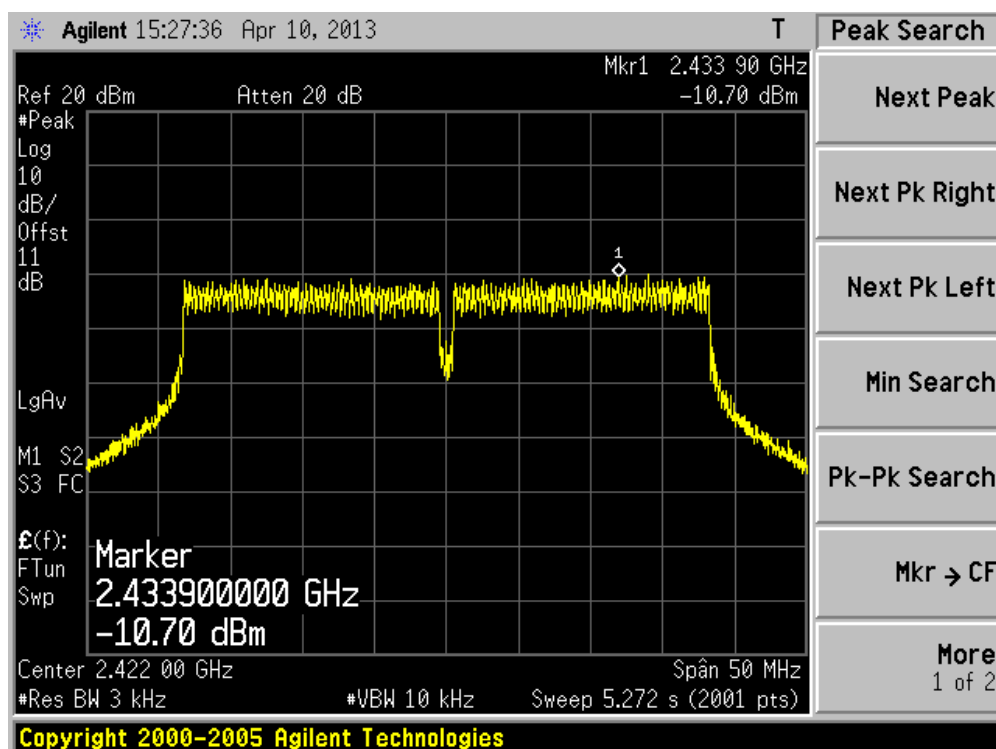
Channel 165 (5825MHz)



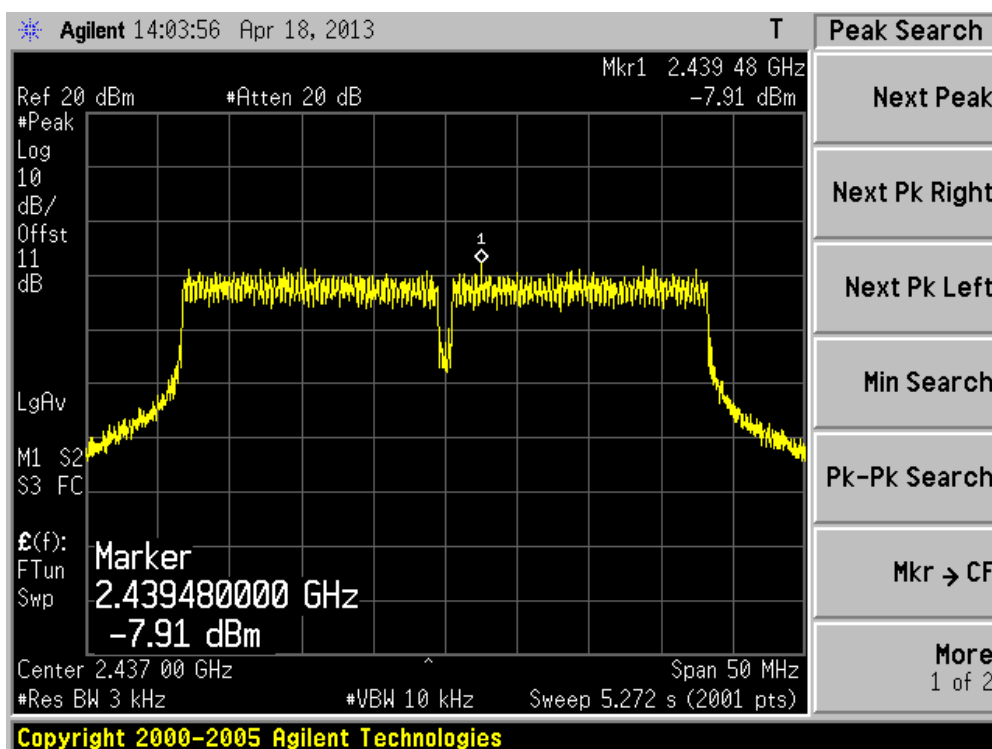
Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 5: Transmit by 802.11n (40MHz) (Chain 1)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1			
03	2422	N/A	-10.70	-10.70	8	Pass
06	2437	N/A	-7.91	-7.91	8	Pass
09	2452	N/A	-7.78	-7.78	8	Pass
151	5755	N/A	-11.81	-11.81	8	Pass
159	5795	N/A	-11.06	-11.06	8	Pass

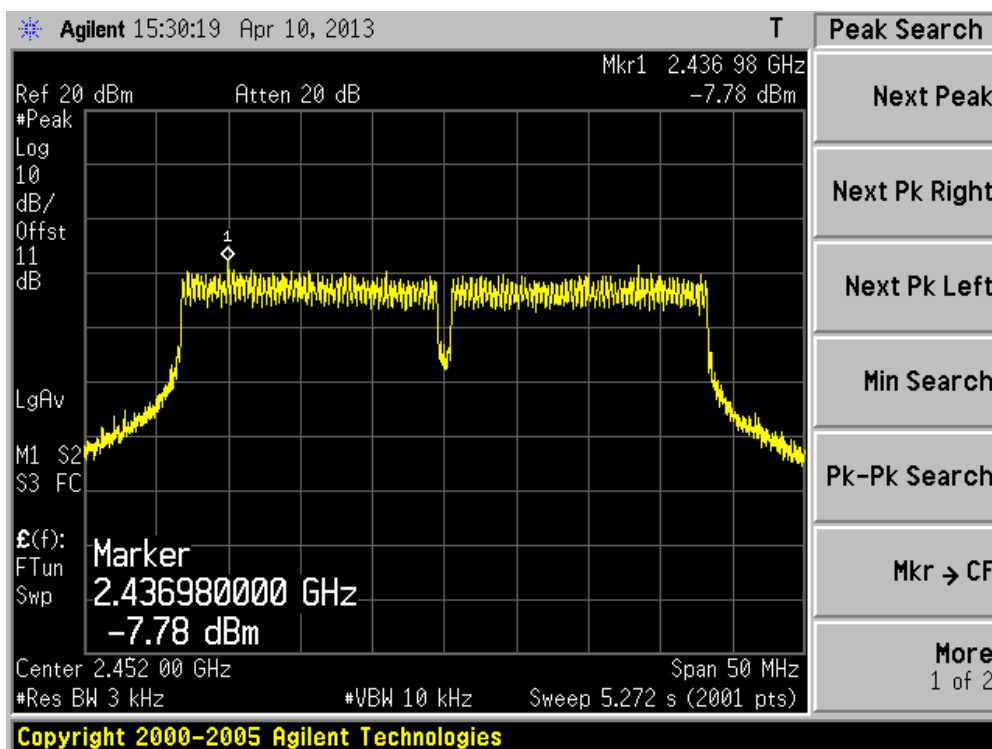
Channel 03 (2422MHz)



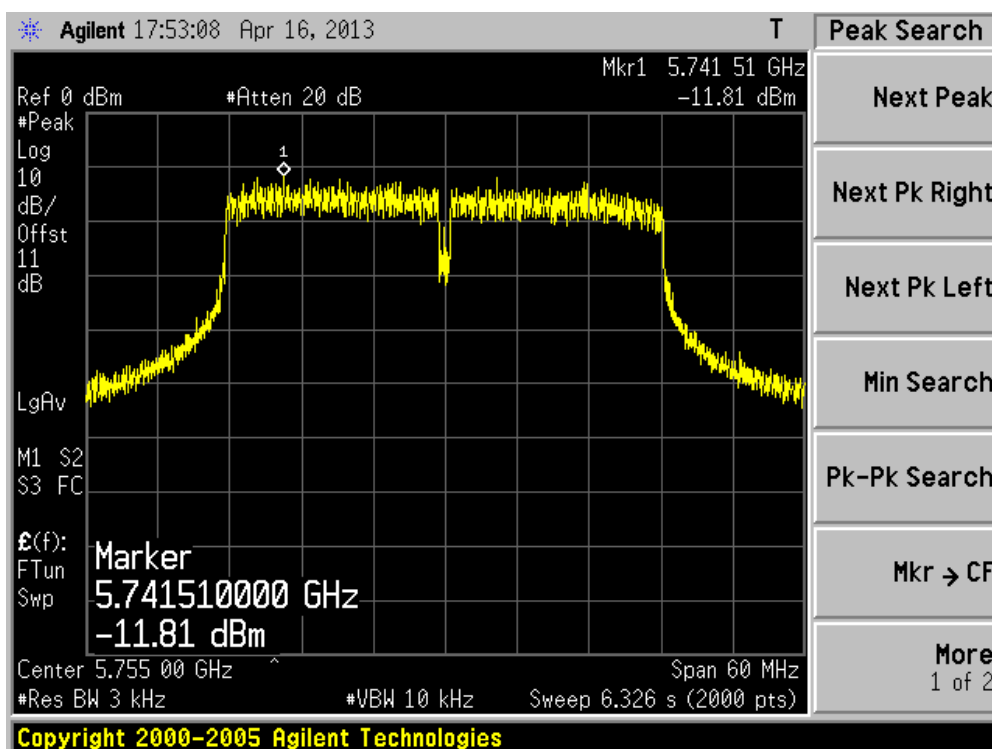
Channel 06 (2437MHz)



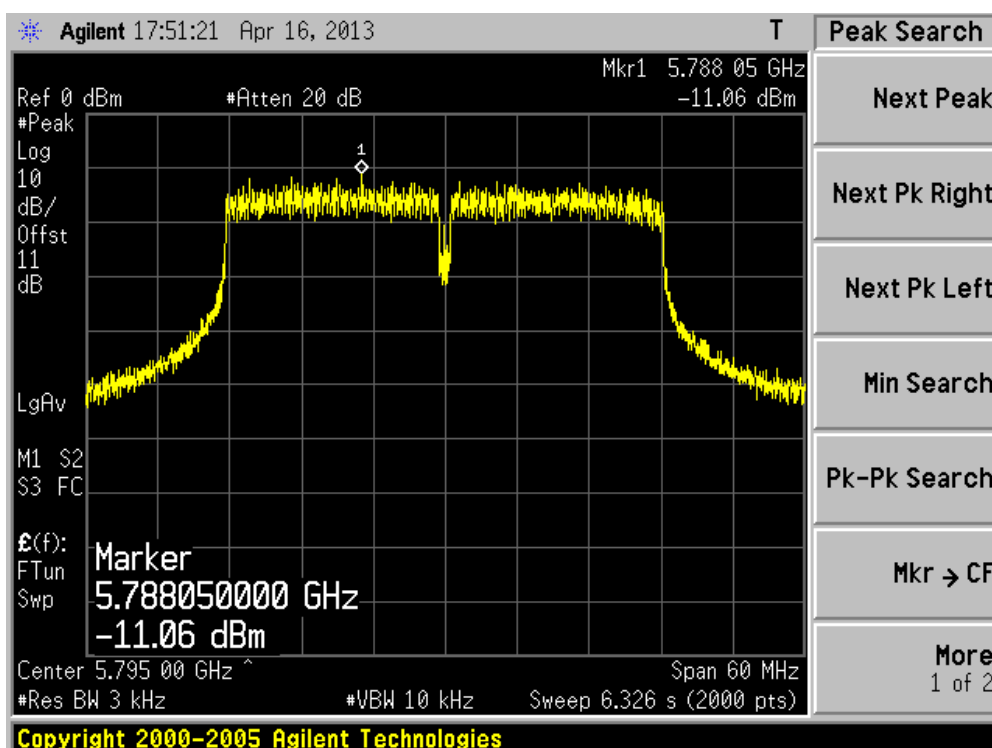
Channel 09 (2452MHz)



Channel 151 (5755MHz)



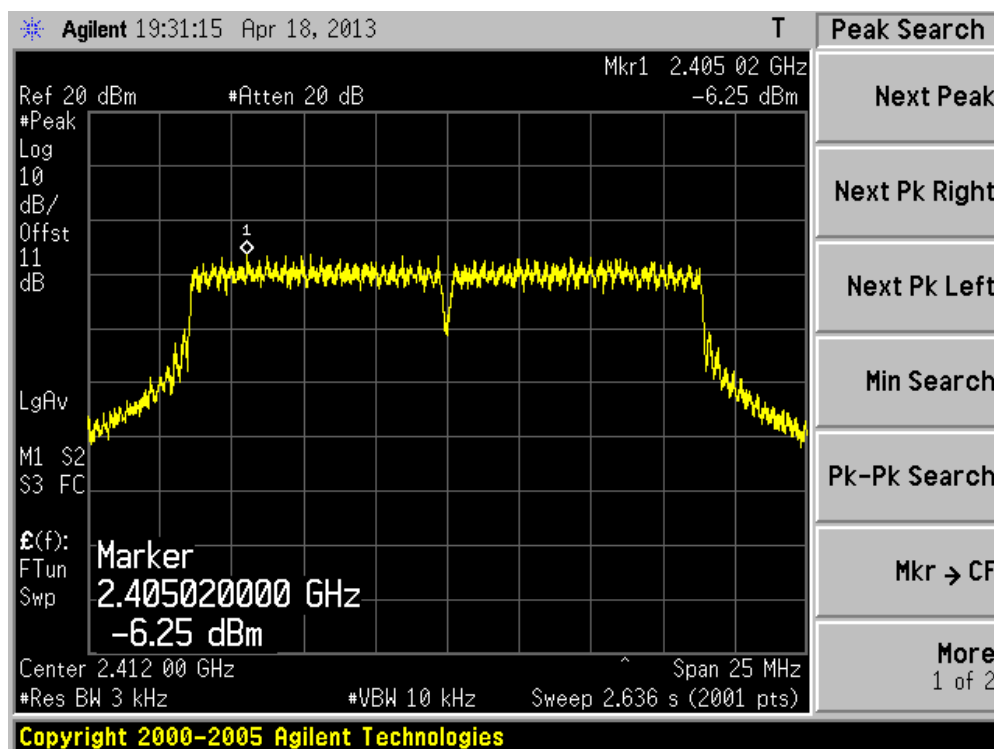
Channel 159 (5795MHz)



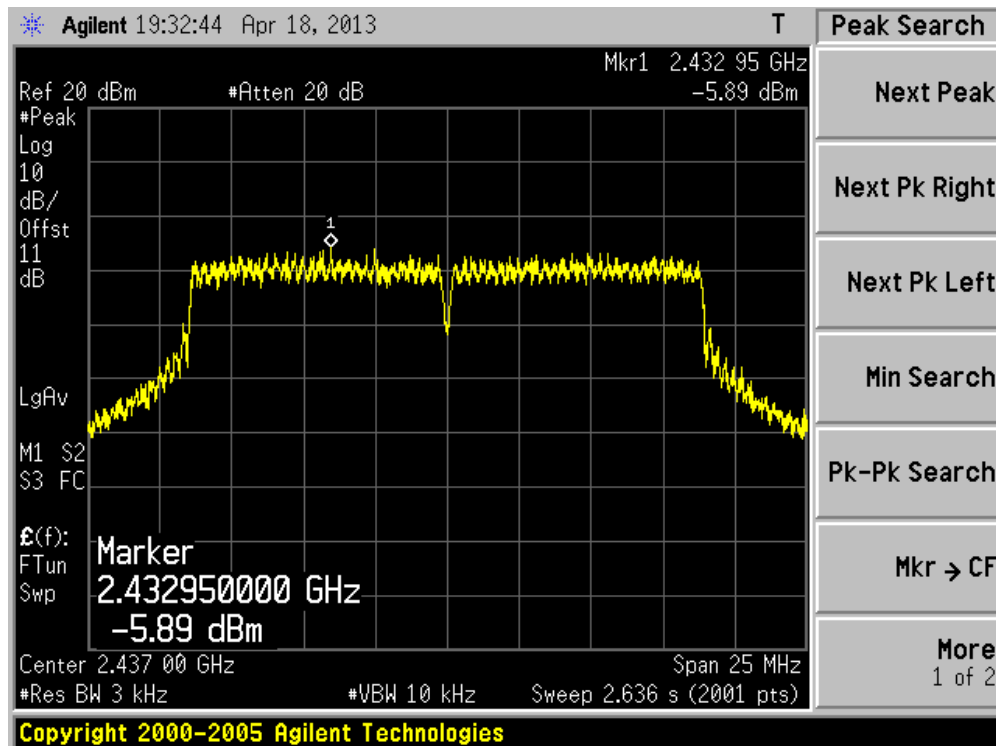
Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n (20MHz) (Chain 0+1)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1			
01	2412	-6.25	-7.14	-3.66	8	Pass
06	2437	-5.89	-6.65	-3.24	8	Pass
11	2462	-4.91	-6.16	-2.48	8	Pass
149	5745	-9.26	-10.47	-6.81	8	Pass
157	5785	-10.49	-11.59	-7.99	8	Pass
165	5825	-8.25	-9.34	-5.75	8	Pass

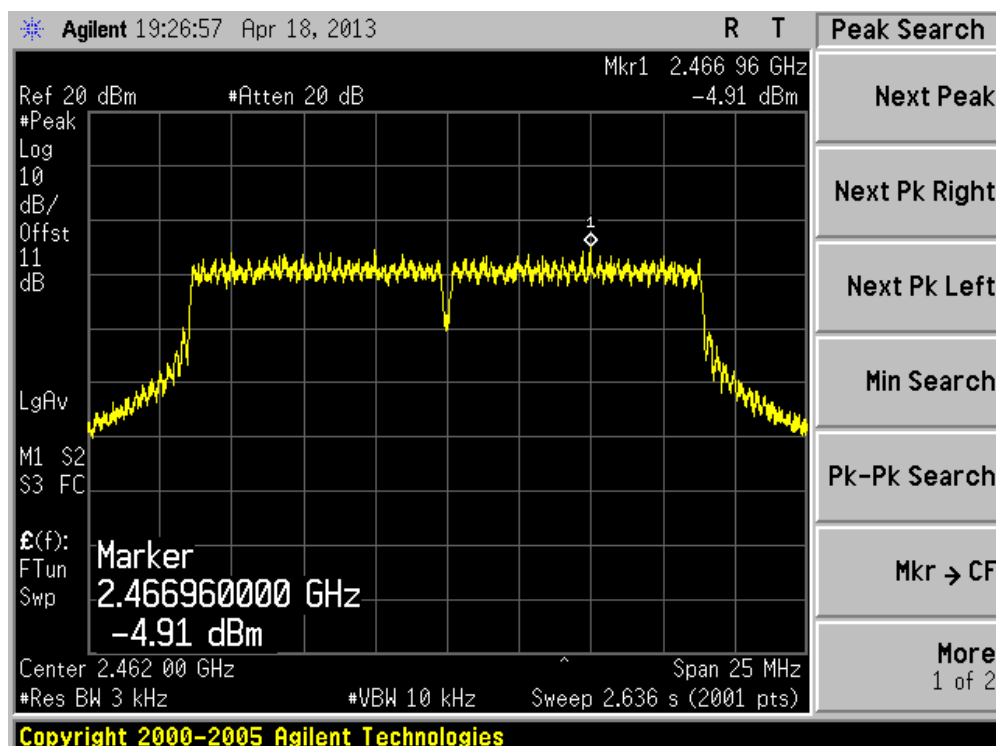
Channel 01 (2412MHz) – Chain 0



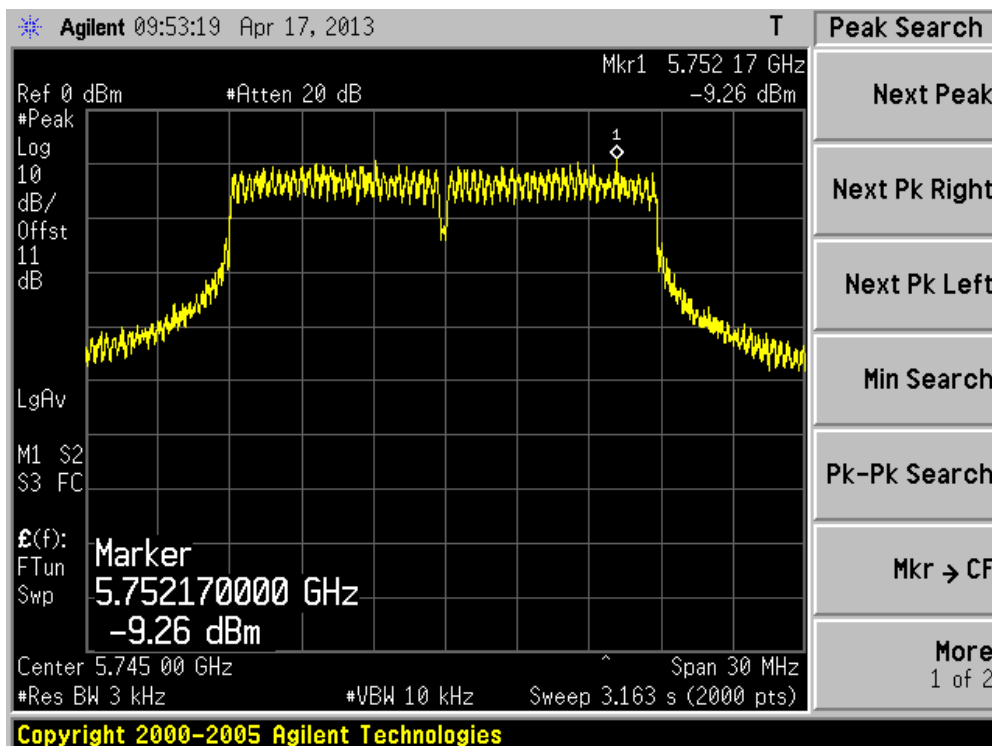
Channel 06 (2437MHz) – Chain 0



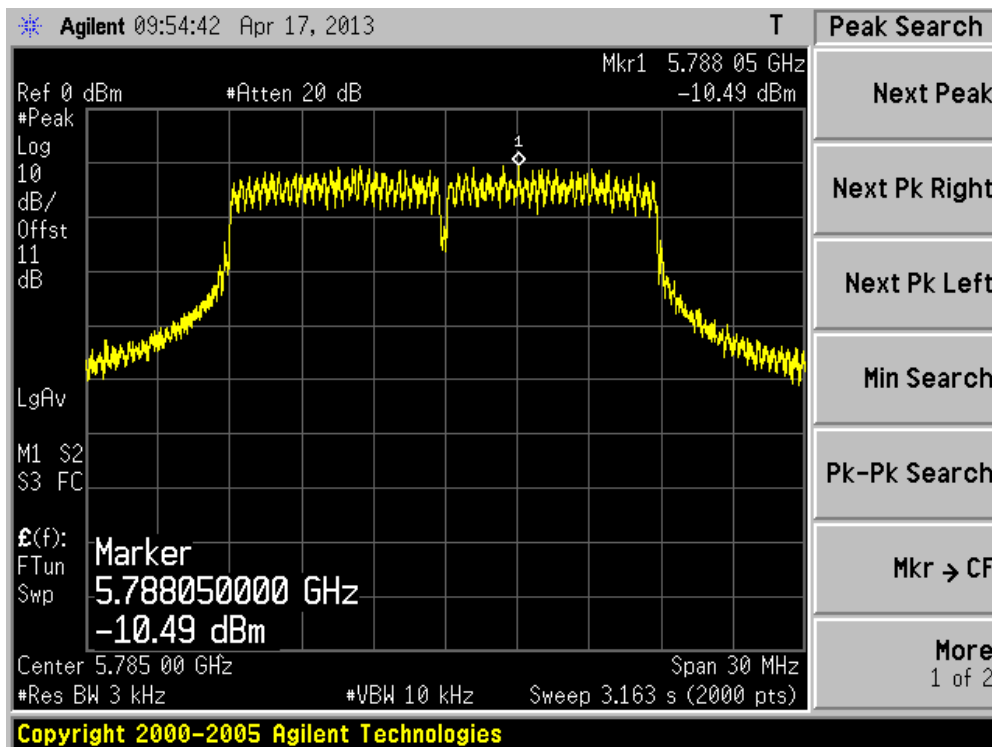
Channel 11 (2462MHz) – Chain 0



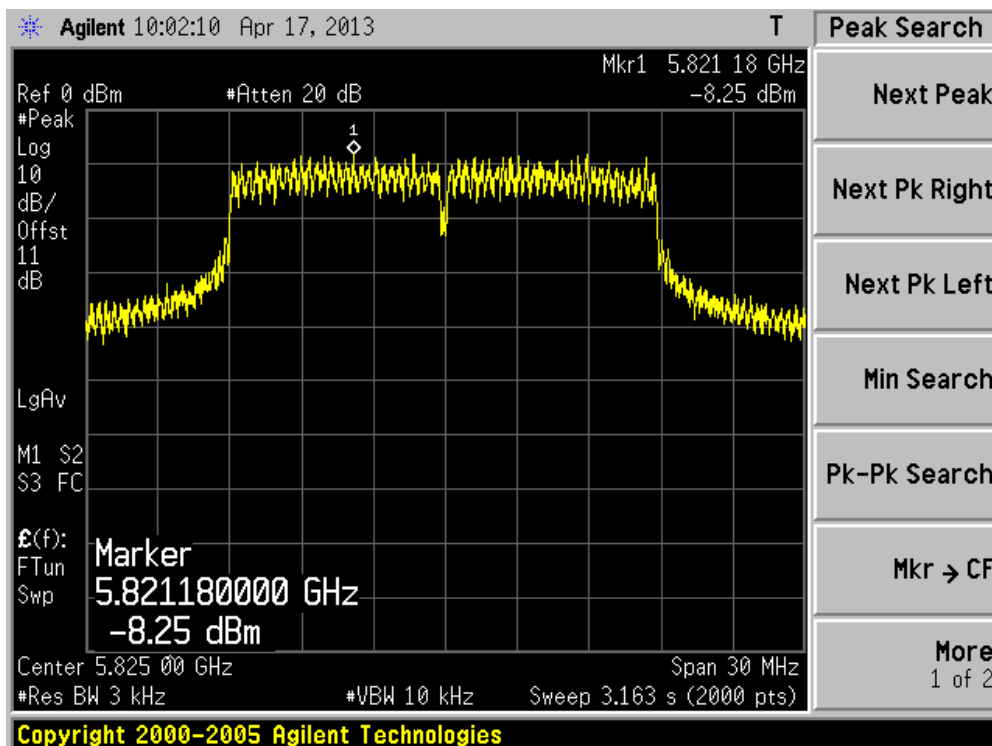
Channel 149 (5745MHz) – Chain 0



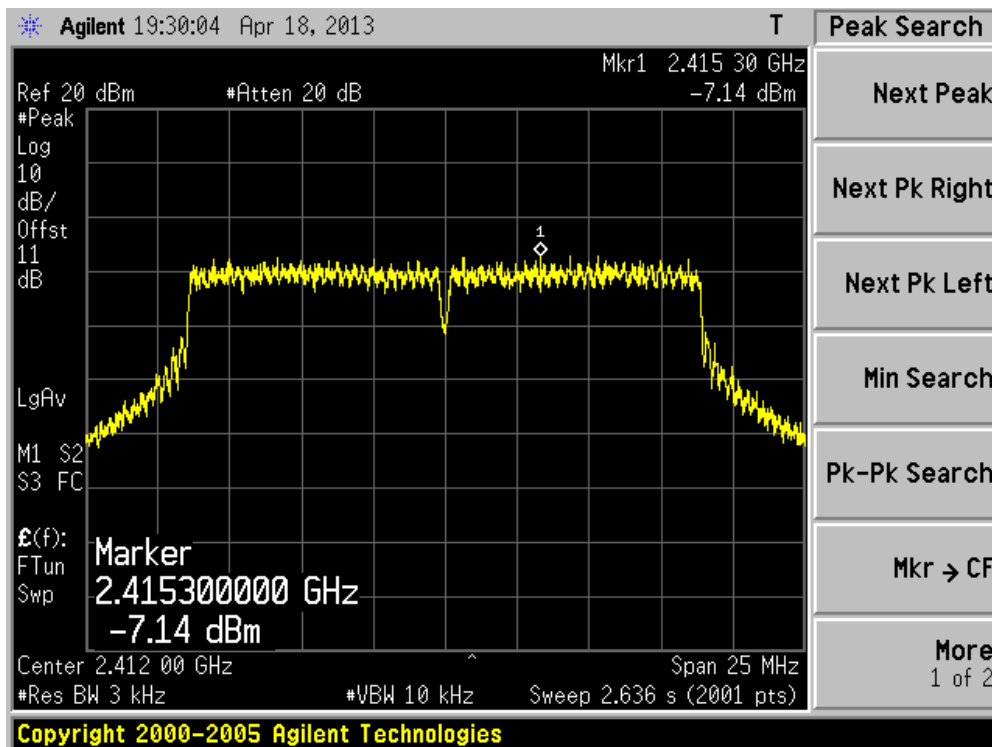
Channel 157 (5785MHz) – Chain 0



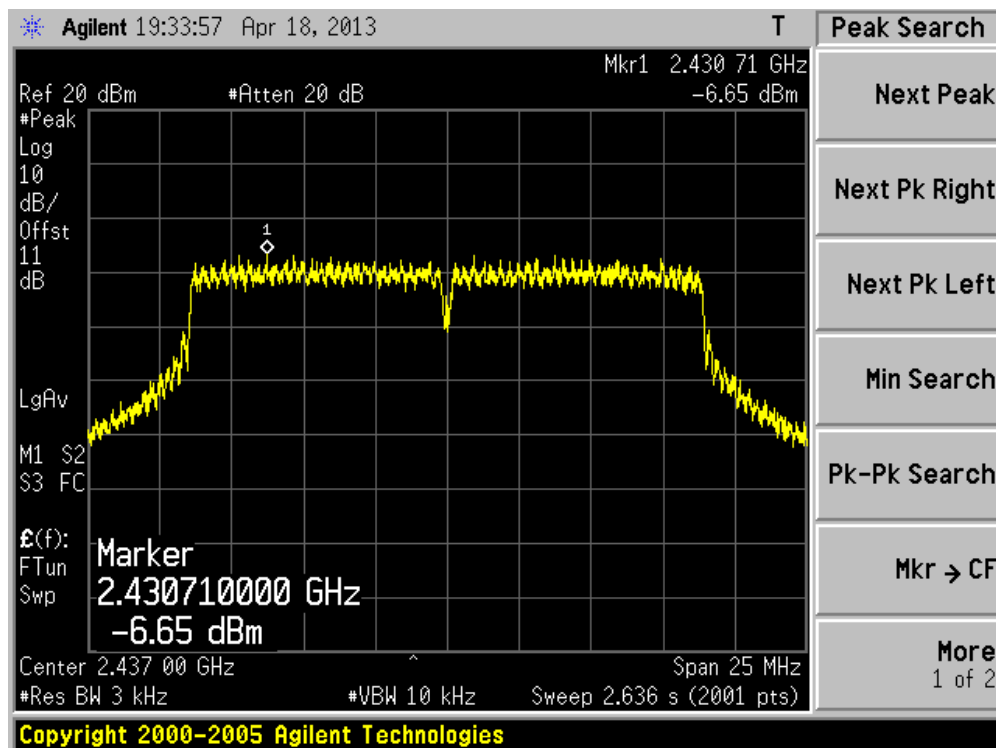
Channel 165 (5825MHz) – Chain 0



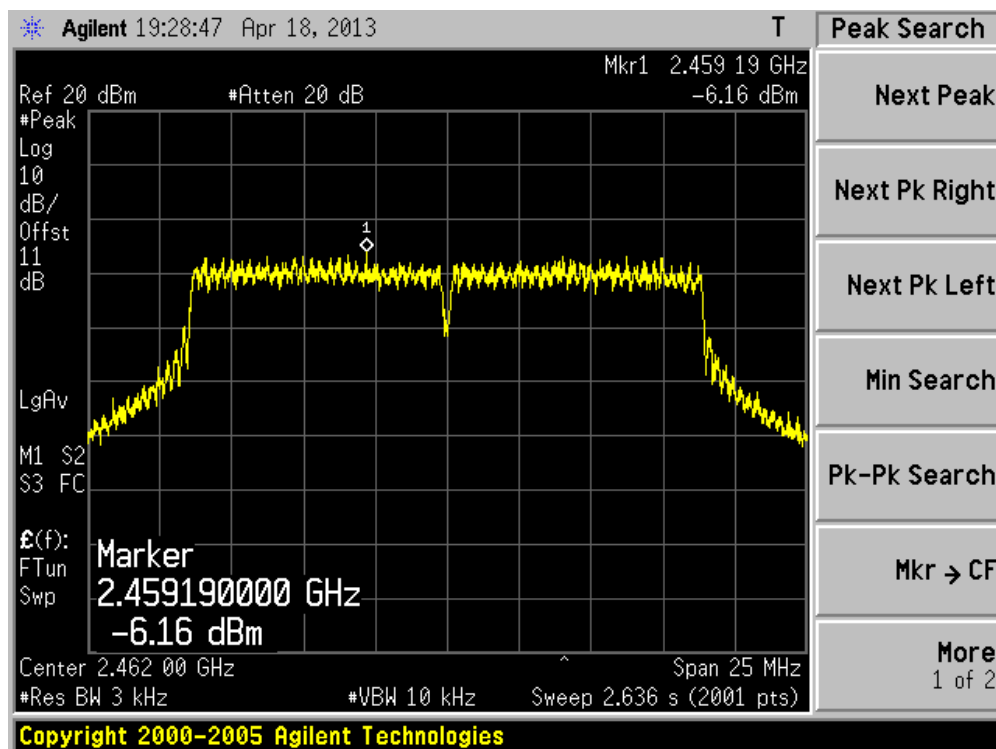
Channel 01 (2412MHz) – Chain 1



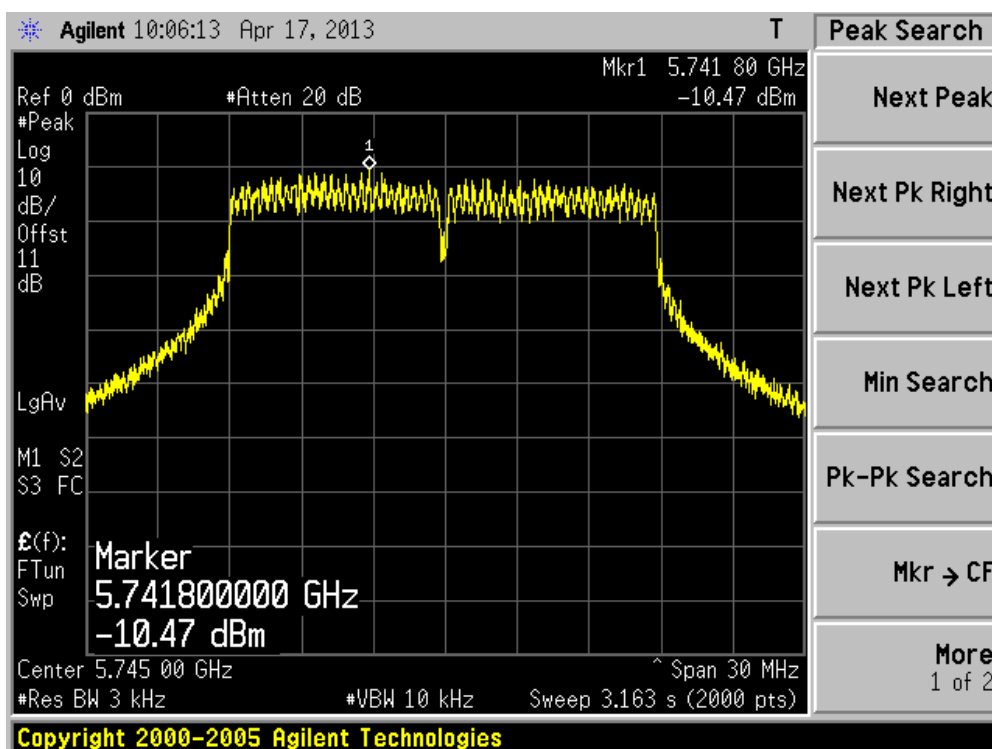
Channel 06 (2437MHz) – Chain 1



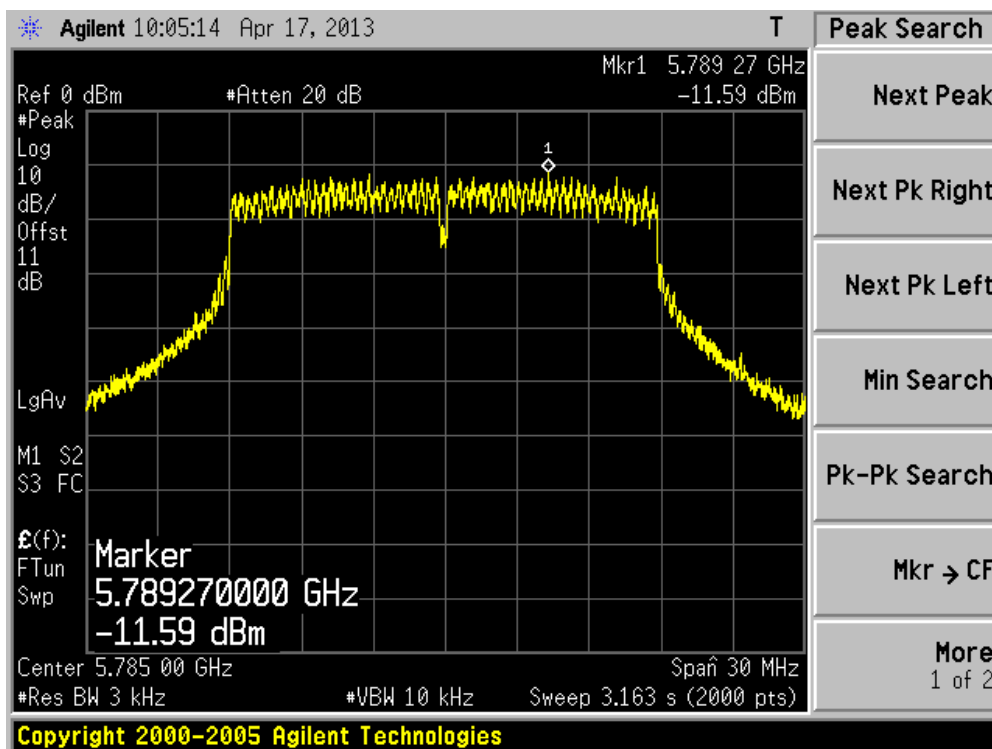
Channel 11 (2462MHz) – Chain 1



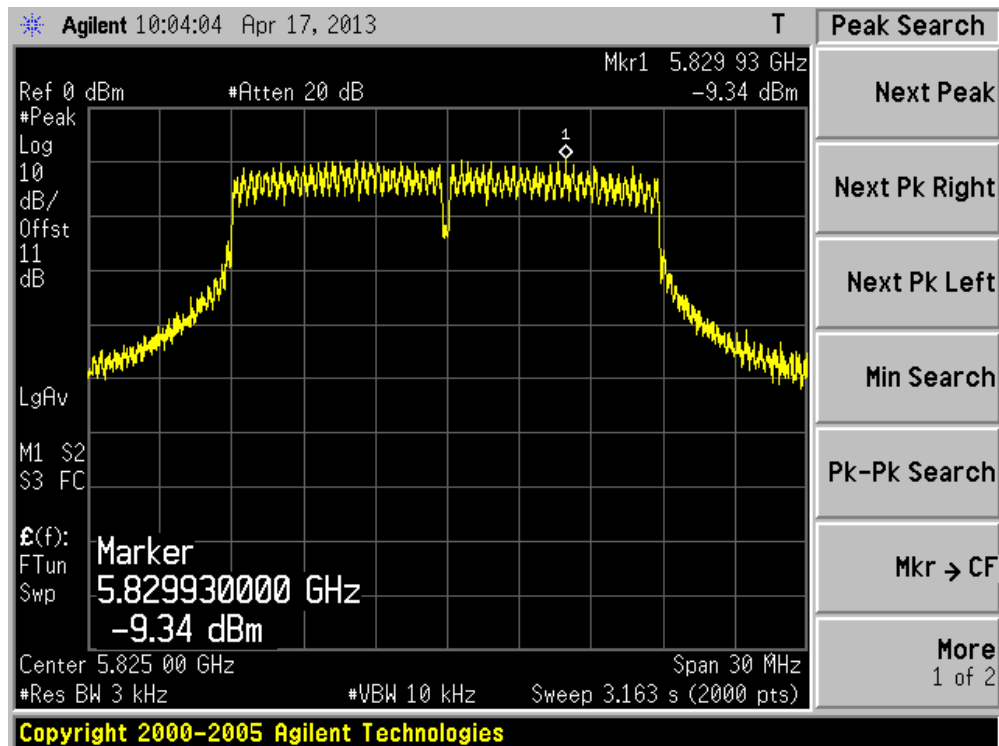
Channel 149 (5745MHz) – Chain 1



Channel 157 (5785MHz) – Chain 1



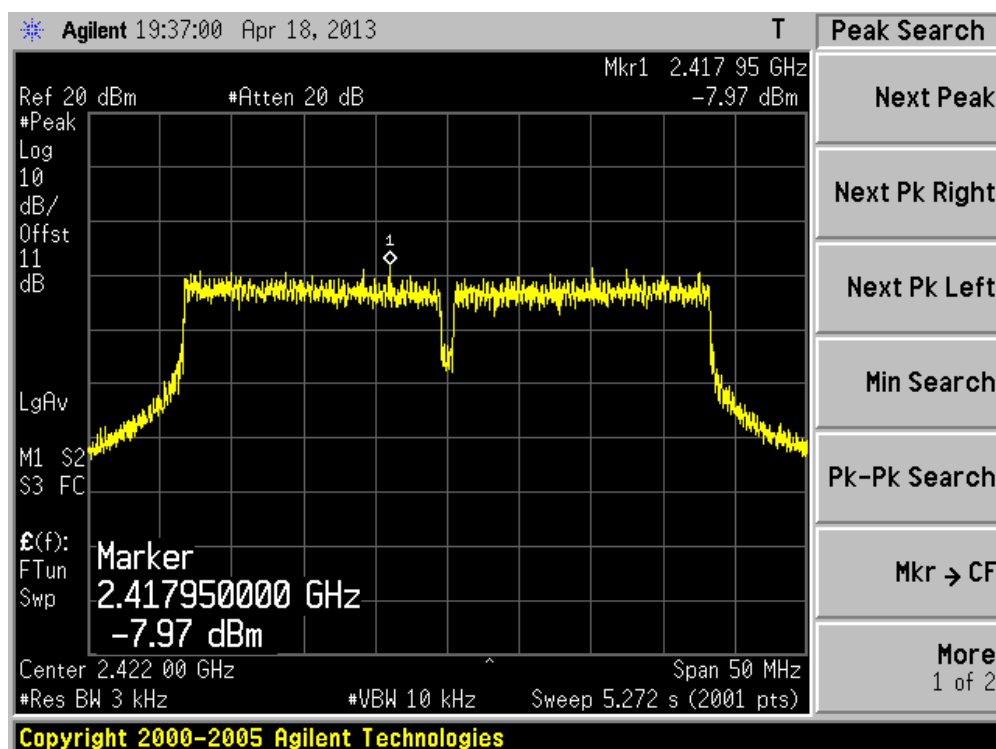
Channel 165 (5825MHz) – Chain 1



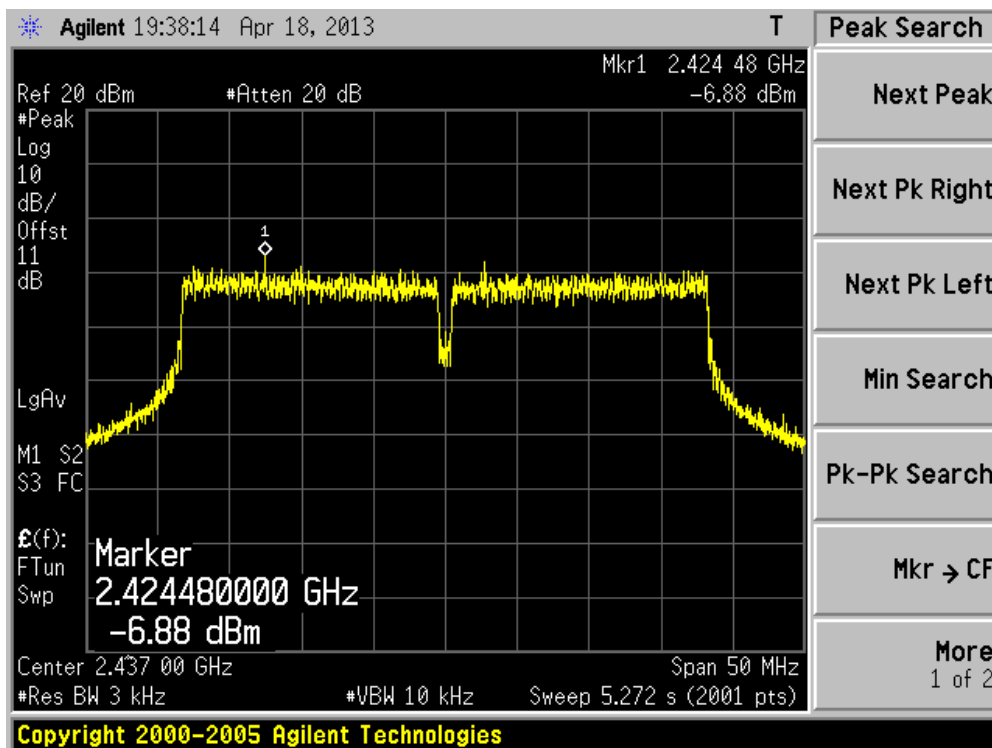
Product	:	WIRELESS-ABGN 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 5: Transmit by 802.11n (40MHz) (Chain 0+1)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1			
03	2422	-7.97	-8.65	-5.29	8	Pass
06	2437	-6.88	-8.13	-4.45	8	Pass
09	2452	-8.16	-6.93	-4.49	8	Pass
151	5755	-16.39	-16.37	-13.37	8	Pass
159	5795	-14.60	-18.65	-13.16	8	Pass

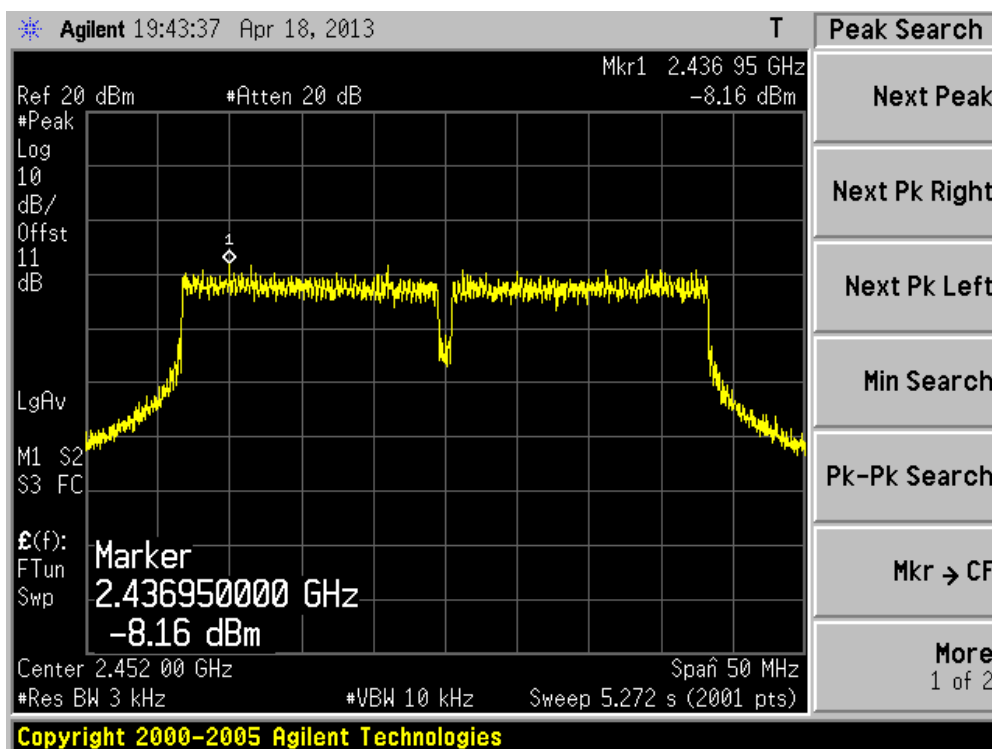
Channel 03 (2422MHz) – Chain 0



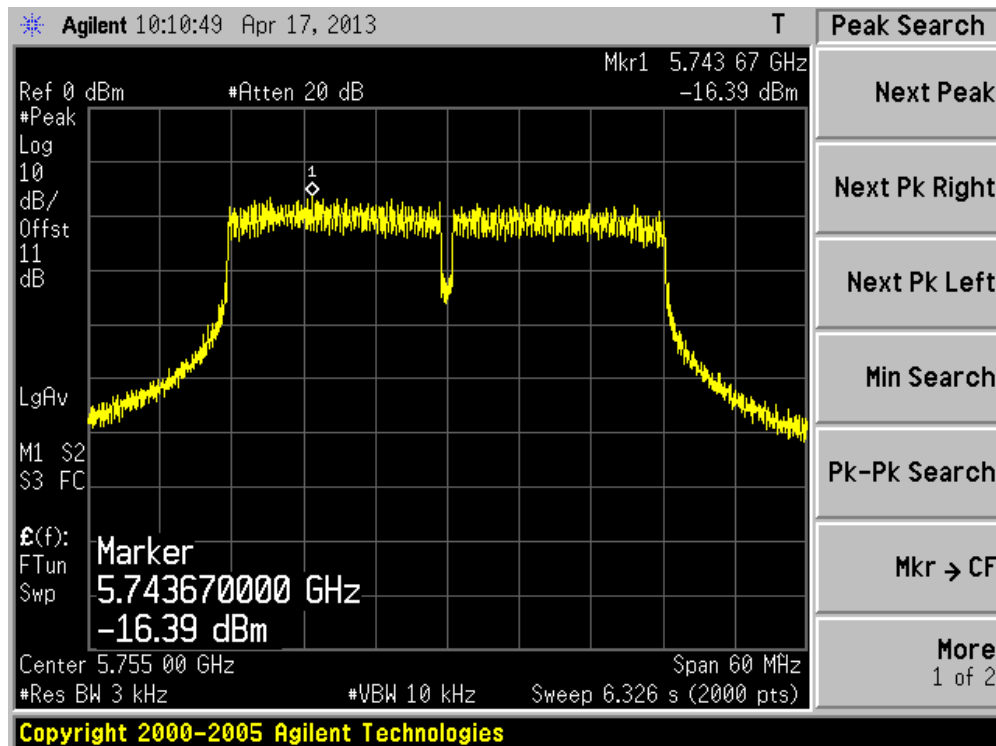
Channel 06 (2437MHz) – Chain 0



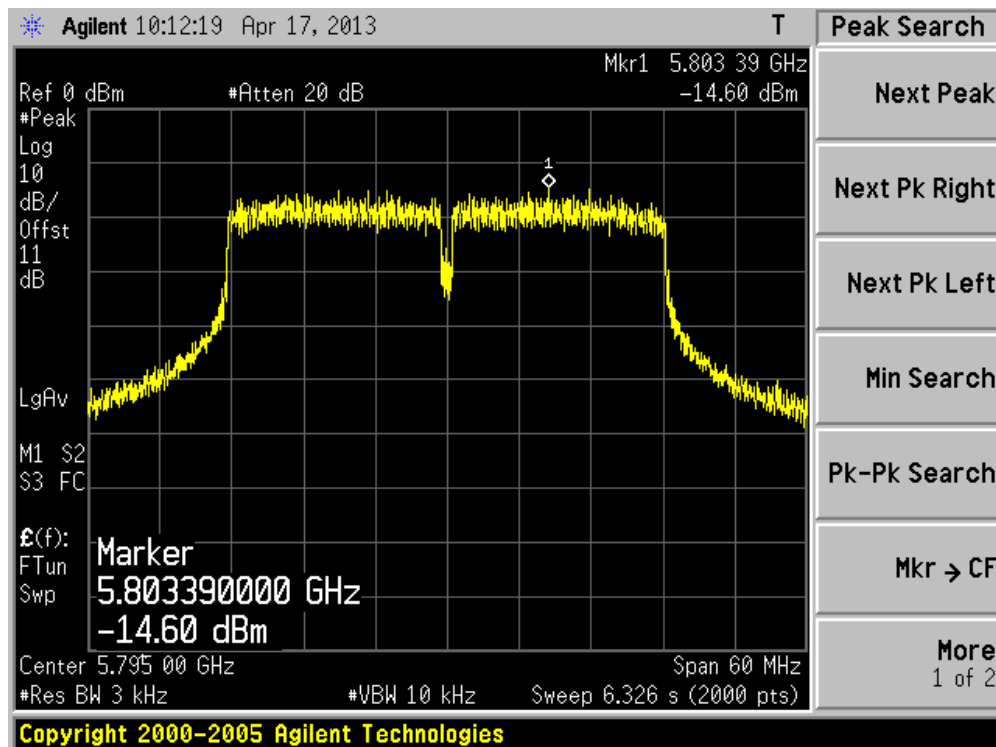
Channel 09 (2452MHz) – Chain 0



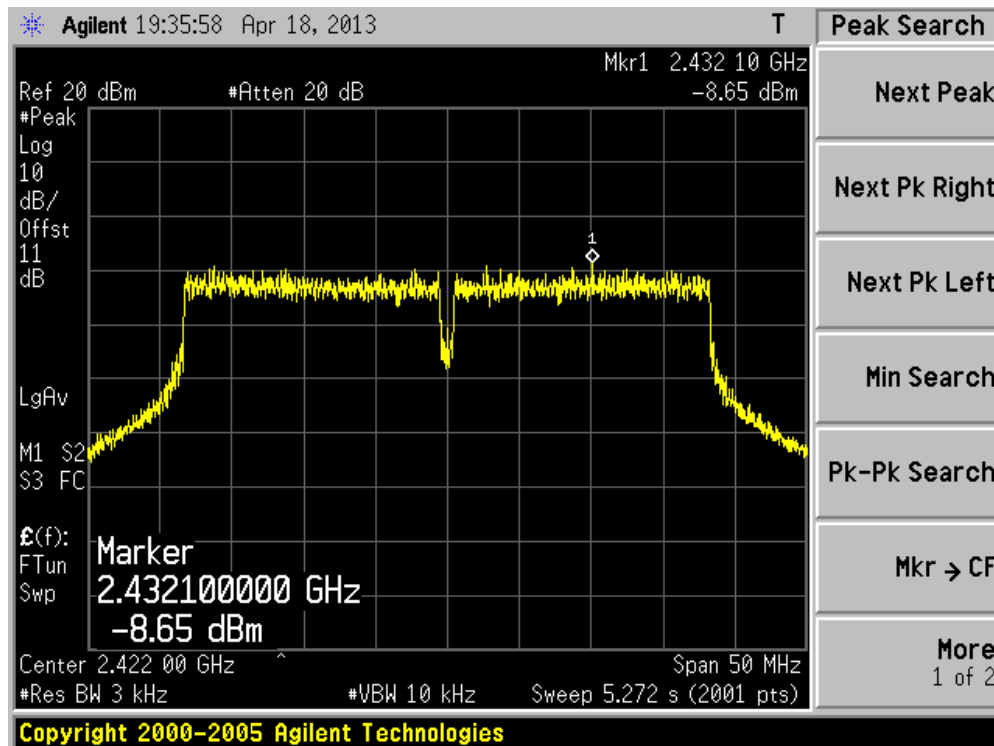
Channel 151 (5755MHz) – Chain 0



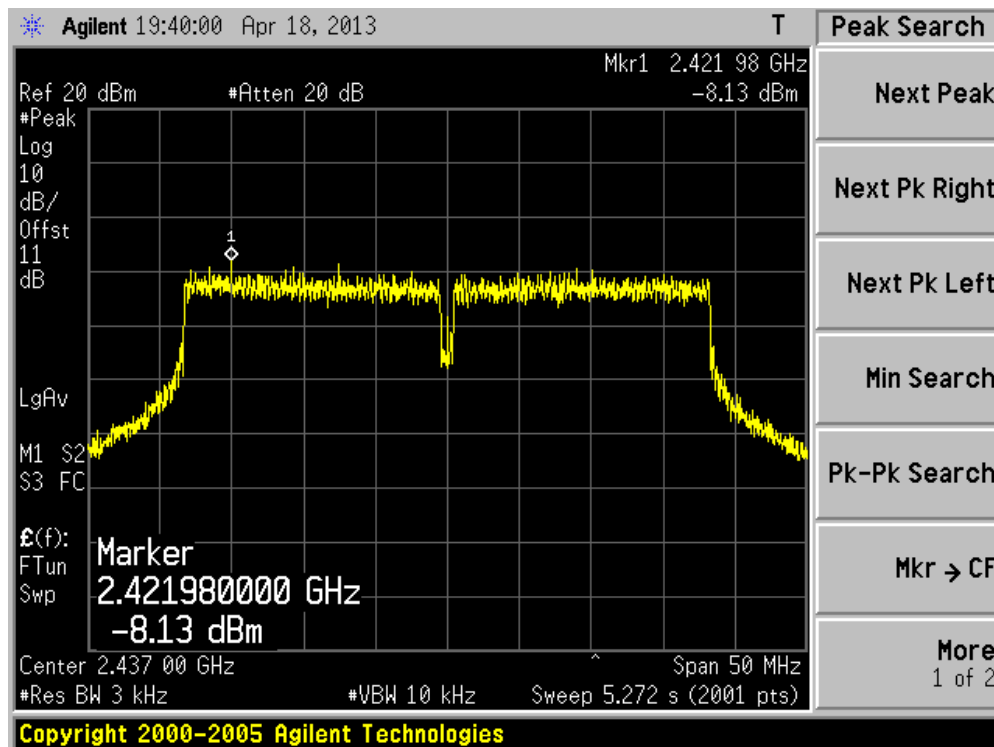
Channel 159 (5795MHz) – Chain 0



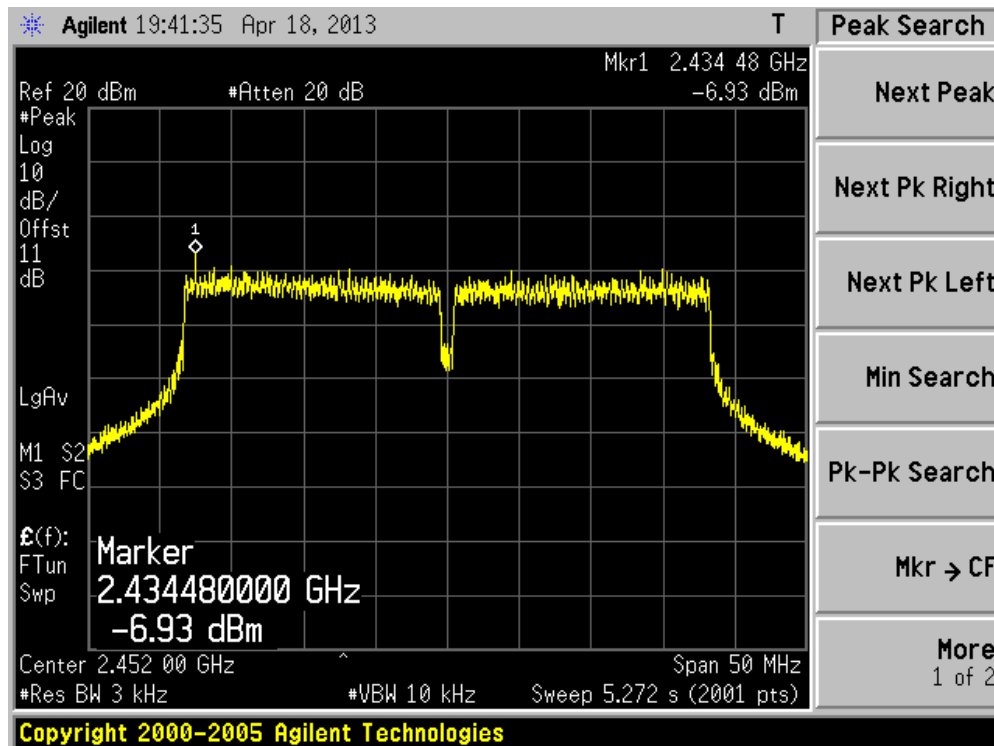
Channel 03 (2422MHz) – Chain 1



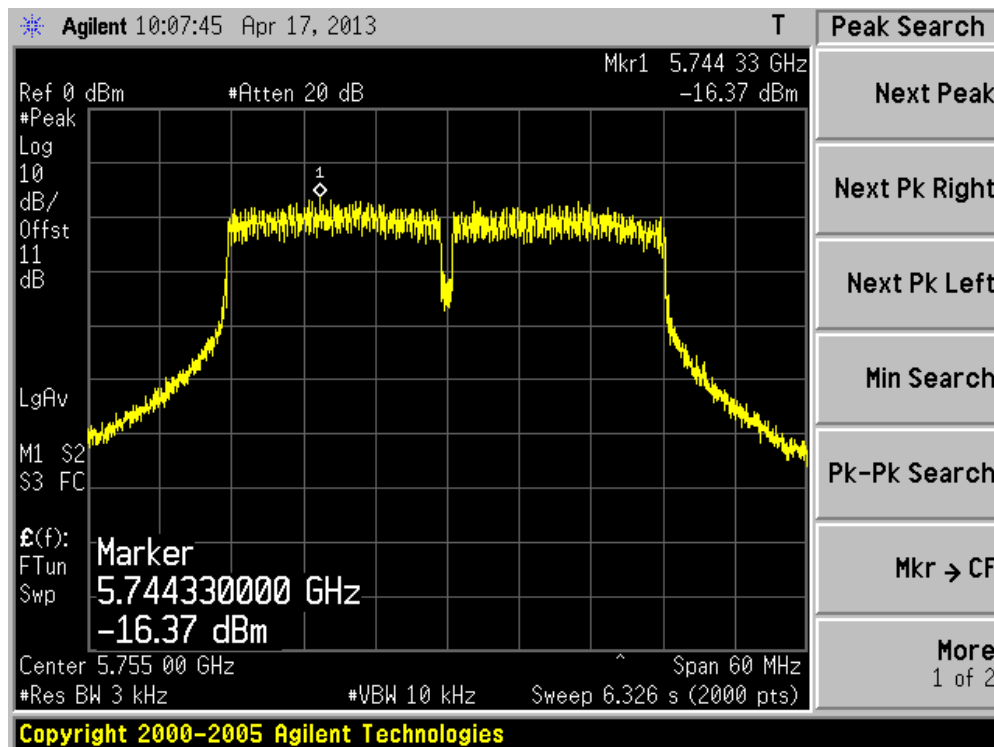
Channel 06 (2437MHz) – Chain 1



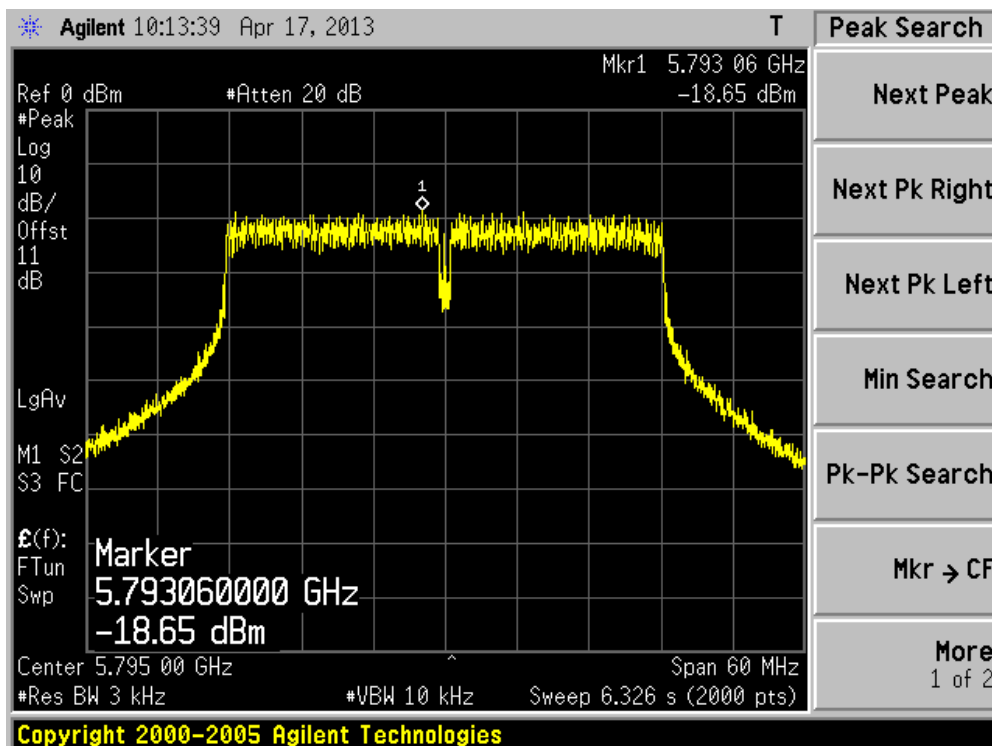
Channel 09 (2452MHz) – Chain 1



Channel 151 (5755MHz) – Chain 1



Channel 159 (5795MHz) – Chain 1



The End