

APPLICATION FOR CERTIFICATION

On Behalf of

D-Link Corporation

Wireless USB Adapter

Model Number: DWA-140

FCC ID: KA2WA140B2

Prepared for : D-Link Corporation
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Report Number : ACS-F10077
Date of Test : Apr.04~11, 2010
Date of Report : Apr.17, 2009

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TEST REPORT CERTIFICATION

Applicant : D-Link Corporation
 Manufacturer : Alpha Networks Inc.
 EUT Description : Wireless USB Adapter
 FCC ID : KA2WA140B2
 (A) MODEL NO. : DWA-140
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : DC 5V
 (D) TEST VOLTAGE : DC 5V From PC Input AC 120V/60Hz

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C 2008

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both radiated and conducted emissions.

The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Date of Test : Apr.04~11, 2010

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Jamy Yu / Supervisor

Approved & Authorized Signer :



Ken Lu / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

| EMISSION | | |
|------------------------------------|--|---------|
| Description of Test Item | Standard | Results |
| Power Line Conducted Emission Test | FCC Part 15: 15.207 ANSI C63.10: 2009 | PASS |
| Radiated Emission Test | FCC Part 15: 15.209 ANSI C63.10: 2009 | PASS |
| Band Edge Compliance Test | FCC Part 15: 15.247 ANSI C63.10: 2009 | PASS |
| Conducted spurious emissions test | FCC Part 15: 15.247 ANSI C63.10: 2009 | PASS |
| 6dB Bandwidth Test | FCC Part 15: 15.247 ANSI C63.10: 2009 | PASS |
| Output Power Test | FCC Part 15: 15.247 ANSI C63.10: 2009 | PASS |
| Power Spectral Density Test | FCC Part 15: 15.247 ANSI C63.10: 2009 | PASS |
| Antenna requirement | FCC Part 15: 15.203 | PASS |

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

| | |
|-----------------------|--|
| Product Name | : Wireless USB Adapter |
| Model Number | : DWA-140 |
| FCC ID | : KA2WA140B2 |
| Operation Frequency | : IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz IEEE 802.11n HT40: 2422MHz—2452MHz |
| Channel Number | : IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7Channels |
| Modulation Technology | : IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK,BPSK) |
| Antenna Assembly Gain | : PCB MIMO 2X2 antenna; 0dBi Gain(maximum) Note: For IEEE802.11b/g Only one antenna was used. |
| Applicant | : D-Link Corporation No.289, Sinhu 3rd Rd., Neihu District, Taipei City 114, Taiwan, R.O.C. |
| Manufacturer | : Alpha Networks Inc. NO.8 Li-shing Rd. VII, Science-based Industrial Park, Hsinchu, Taiwan. |
| USB Cable | : Unshielded, Detachable, 1m |
| Date of Test | : Apr.04~11, 2010 |
| Date of Receipt | : Apr.03, 2010 |
| Sample Type | : Prototype production |

2.2. Test Information

The test software “RT307xQA.exe” was used to control EUT work in Continuous TX mode(100% duty cycle), and select test channel, wireless mode and data rate.

| Tested mode, channel, and data rate information | | | |
|---|-------------------------------|-------------|--------------------|
| Mode | data rate (Mbps)(see Note) | Channel | Frequency (MHz) |
| IEEE 802.11b | 2 | Low :CH1 | 2412 |
| | 2 | Middle: CH6 | 2437 |
| | 2 | High: CH11 | 2462 |
| IEEE 802.11g | 6 | Low :CH1 | 2412 |
| | 6 | Middle: CH6 | 2437 |
| | 6 | High: CH11 | 2462 |
| IEEE 802.11n HT20 | 6.5 | Low :CH1 | 2412 |
| | 6.5 | Middle: CH6 | 2437 |
| | 6.5 | High: CH11 | 2462 |
| IEEE 802.11n HT40 | 13.5 | Low :CH1 | 2422 |
| | 13.5 | Middle: CH4 | 2437 |
| | 13.5 | High: CH7 | 2452 |
| Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test. | | | |

2.3. Tested Supporting System Details

2.3.1. NOTEBOOK

M/N : PP09S
 S/N : N/A
 Manufacturer : DELL
 Power Adaptor : Manufacturer: DELL,
 M/N: LA65NS1-00
 Cable: Unshielded, Detachable, 4.0m
 (Bond one ferrite core)

2.4. Test Facility

Site Description

| | | |
|---------------------------|---|--|
| Name of Firm | : | Audix Technology (Shenzhen) Co., Ltd. No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China |
| 3m Anechoic Chamber | : | Mar.31, 2009 File on Federal Communication Commission Registration Number: 90454 |
| 3m & 10m Anechoic Chamber | : | Dec. 30, 2009 File on Federal Communication Commission Registration Number: 794232 |
| EMC Lab. | : | Accredited by DATech, German Registration Number: DAT-P-091/99-01 Feb. 02, 2009 Accredited by NVLAP, USA NVLAP Code: 200372-0 Apr. 01, 2010 |

2.5. Measurement Uncertainty (95% confidence levels, k=2)

| Test Item | Uncertainty |
|--|--|
| Uncertainty for Conduction emission test in No. 1 Conduction | 2.40dB |
| Uncertainty for Radiation Emission test in 3m chamber | 3.78 dB (Polarize: V) |
| | 4.20 dB (Polarize: H) |
| Uncertainty for Radiated Spurious Emission test in RF chamber | 2.70 dB (Bilog antenna 30M~1000MHz) |
| | 2.27 dB (Horn antenna 1000M~25000MHz) |
| Uncertainty for Conduction Spurious emission test | 2.10 dB |
| Uncertainty for Output power test | 0.94 dB |
| Uncertainty for Power density test | 2.10 dB |
| Uncertainty for Temperature and humidity test | 2% |
| | 1°C |
| Uncertainty for Bandwidth test | 1×10^{-9} |
| Uncertainty for DC power test | 0.038 % |
| Uncertainty for test site temperature and humidity | 0.6°C |
| | 3% |

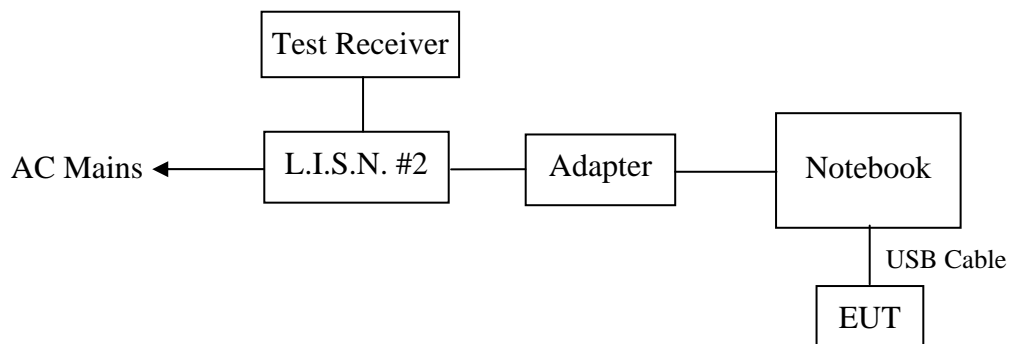
3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|----------------|-----------------|-----------|---------------|------------|---------------|
| 1 | Test Receiver | Rohde & Schwarz | ESHS20 | 836600/006 | May.08, 09 | 1 Year |
| 2 | L.I.S.N.#2 | Kyoritsu | KNW-407 | 8-1636-1 | May.08, 09 | 1 Year |
| 3 | Terminator | Hubersuhner | 50Ω | No. 1 | May.08, 09 | 1 Year |
| 4 | RF Cable | Fujikura | 3D-2W | LISN Cable 1# | May.08, 09 | 1Year |
| 5 | Coaxial Switch | Anritsu | MP59B | M55367 | May.08, 09 | 1 Year |
| 6 | Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100341 | May.08, 09 | 1 Year |

3.2. Block Diagram of Test Setup

3.2.1. Block diagram of connection between the EUT and Supporting System



(EUT: Wireless USB Adapter)

3.3. Power Line Conducted Emission Test Limits

| Frequency | Maximum RF Line Voltage | |
|-----------------|----------------------------|-------------------------|
| | Quasi-Peak Level dB(μV) | Average Level dB(μV) |
| 150kHz ~ 500kHz | 66 ~ 56* | 56 ~ 46* |
| 500kHz ~ 5MHz | 56 | 46 |
| 5MHz ~ 30MHz | 60 | 50 |

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4.Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. Wireless USB Adapter (EUT)

Model Number : DWA-140
Serial Number : N/A

3.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.4

3.5.Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turned on the power of all equipment.

3.5.3. Notebook run test software to control EUT work in Tx mode.

3.6.Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via Notebook connected to the power mains through a line impedance stabilization network (L.I.S.N. 2#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2009 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS20) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

The test result are reported on Section 3.7.

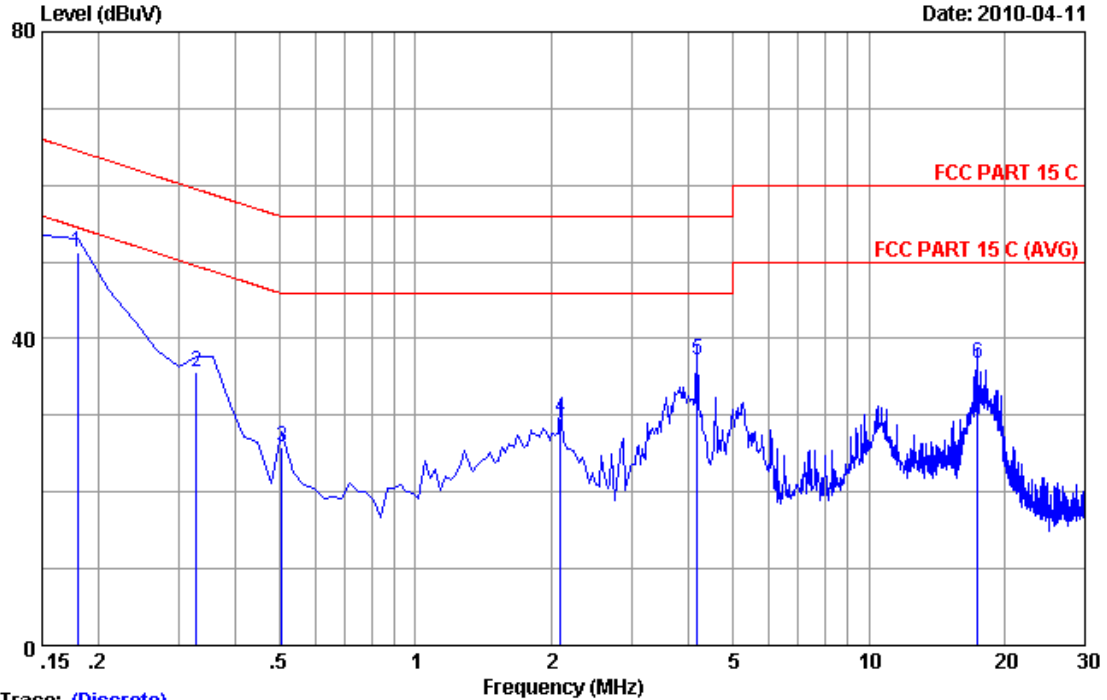
3.7.Power Line Conducted Emission Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)



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Data: 1 File: D:\DATA\2010 REPORT\TP-LINK\ACS10Q0577.EM6 (8)



Trace: (Discrete)

Site no :Audix No.1 Conduction Data no :1
 Dis./Ant. :** 2009 ESH2-25 LINE
 Limit :FCC PART 15 C
 Env./Ins. :Temp:23'C Humi:54% Engineer :Leo-Li
 EUT :Wireless USB Adapter M/N:DWA-140
 Power Rating :DC 5V From PC input AC 120V/60Hz
 Test Mode :Tx Mode

| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|------------|------------------|-----------------|----------------|-----------------------|---------------|-------------|--------|
| 1 | 0.17985 | 0.19 | 9.88 | 41.08 | 51.15 | 64.49 | 13.34 | QP |
| 2 | 0.32910 | 0.18 | 9.89 | 25.56 | 35.63 | 59.47 | 23.84 | QP |
| 3 | 0.50820 | 0.18 | 9.89 | 15.76 | 25.83 | 56.00 | 30.17 | QP |
| 4 | 2.090 | 0.21 | 9.90 | 19.45 | 29.56 | 56.00 | 26.44 | QP |
| 5 | 4.180 | 0.28 | 9.91 | 27.07 | 37.26 | 56.00 | 18.74 | QP |
| 6 | 17.373 | 0.52 | 9.99 | 26.20 | 36.71 | 60.00 | 23.29 | QP |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

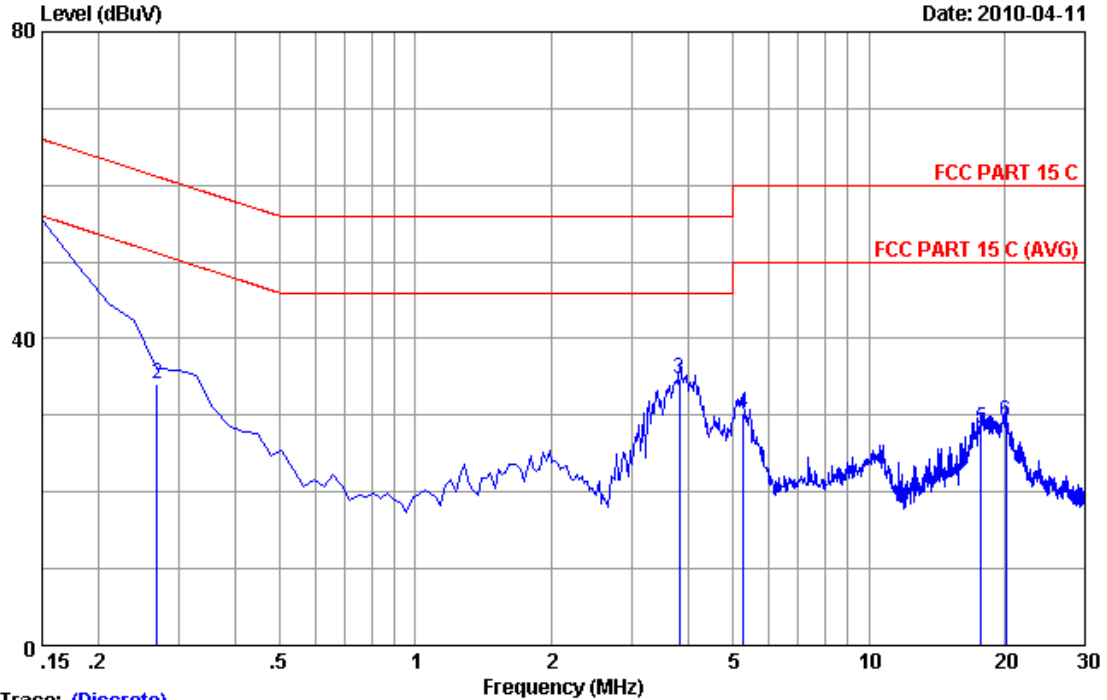


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Data: 2

File: D:\DATA\2010 REPORT\TP-LINK\ACS10Q0577.EM6 (8)

Date: 2010-04-11



Trace: (Discrete)

Site no :Audix No.1 Conduction Data no :2
 Dis./Ant. **: 2009 ESH2-25 NEUTRAL
 Limit :FCC PART 15 C
 Env./Ins. :Temp:23'C Humi:54% Engineer :Leo-Li
 EUT :Wireless USB Adapter M/N:DWA-140
 Power Rating :DC 5V From PC input AC 120V/60Hz
 Test Mode :Tx Mode

| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|------------|------------------|-----------------|----------------|-----------------------|---------------|-------------|--------|
| 1 | 0.15000 | 0.20 | 9.88 | 41.35 | 51.43 | 66.00 | 14.57 | QP |
| 2 | 0.26940 | 0.20 | 9.88 | 23.95 | 34.03 | 61.14 | 27.11 | QP |
| 3 | 3.822 | 0.27 | 9.91 | 24.57 | 34.75 | 56.00 | 21.25 | QP |
| 4 | 5.284 | 0.28 | 9.91 | 20.09 | 30.28 | 60.00 | 29.72 | QP |
| 5 | 17.702 | 0.39 | 10.00 | 18.01 | 28.40 | 60.00 | 31.60 | QP |
| 6 | 20.090 | 0.42 | 10.01 | 18.72 | 29.15 | 60.00 | 30.85 | QP |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4. RADIATED EMISSION TEST

4.1. Test Equipment

Frequency rang: 30~1000MHz

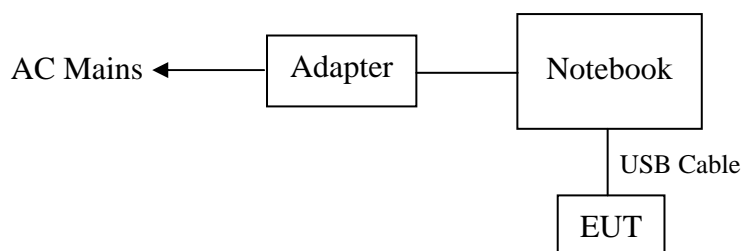
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|----------------|-----------------|-----------|-----------------|------------|---------------|
| 1 | 3#Chamber | AUDIX | N/A | N/A | Dec.05,09 | 1 Year |
| 2 | EMI Spectrum | Agilent | E4407B | MY41440292 | May.08, 09 | 1 Year |
| 3 | Test Receiver | Rohde & Schwarz | ESVS10 | 834468/011 | May.08, 09 | 1 Year |
| 4 | Amplifier | HP | 8447D | 2648A04738 | May.08, 09 | 1 Year |
| 5 | Bilog Antenna | Schaffner | CBL6111C | 2598 | Dec.14, 09 | 1 Year |
| 6 | RF Cable | MIYAZAKI | 8D-FB | 3# Chamber No.1 | May.08, 09 | 1 Year |
| 7 | Coaxial Switch | Anritsu | MP59B | M73989 | May.08, 09 | 1 Year |

Frequency rang: above 1000MHz

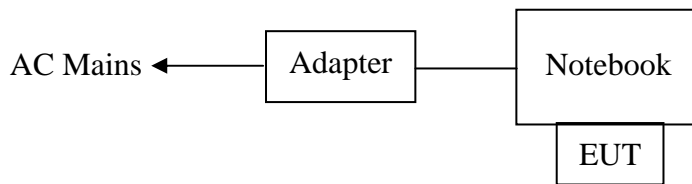
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------|--------------|-----------------|------------|------------|---------------|
| 1 | Spectrum Analyzer | Agilent | E4446A | US44300459 | May.08, 09 | 1 Year |
| 2 | Horn Antenna | EMCO | 3115 | 9607-4877 | Nov.25, 09 | 1.5 Year |
| 3 | Horn Antenna | EMCO | 3116 | 00060089 | Dec.03, 09 | 1.5 Year |
| 4 | Amplifier | Agilent | 8449B | 3008A00863 | May.08, 09 | 1 Year |
| 5 | RF Cable | Hubersuhner | SUCOFLEX102 | 28620/2 | Nov.28, 09 | 1 Year |
| 6 | RF Cable | Hubersuhner | SUCOFLEX102 | 29091/2 | Nov.28, 09 | 1 Year |
| 7 | RF Cable | Hubersuhner | SUCOFLEX 102 | 28618/2 | May.08, 09 | 1Year |

4.2. Block Diagram of Test Setup

4.2.1. Block diagram of connection between the EUT and Supporting System
Mode I (Worse Case):



Mode II:

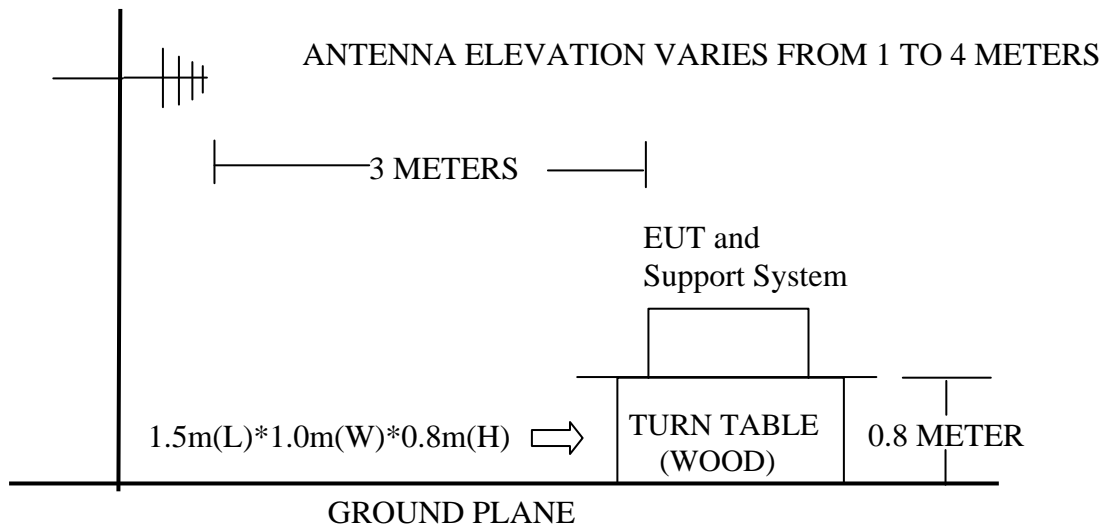


Note: This product will be connected to computer USB port with 1m line USB cable or direct connected to USB port of computer, and according exploratory test when connected to computer with USB cable will have worse radiated emissions, so the below final test was chose with USB cable.

(EUT: Wireless USB Adapter)

4.2.2. In Anechoic Chamber

ANTENNA TOWER



4.3. Radiated Emission Limit

4.3.1. 15.209 limits

| FREQUENCY MHz | DISTANCE Meters | FIELD STRENGTHS LIMIT | |
|------------------|--------------------|---|----------|
| | | μV/m | dB(μV)/m |
| 30 ~ 88 | 3 | 100 | 40.0 |
| 88 ~ 216 | 3 | 150 | 43.5 |
| 216 ~ 960 | 3 | 200 | 46.0 |
| 960 ~ 1000 | 3 | 500 | 54.0 |
| Above 1000 | 3 | 74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average) | |

- Remark :
- (1) Emission level dBμV = 20 log Emission level μV/m
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.3.2. 15.205 Restricted bands of operation

| MHz | MHz | MHz | GHz |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2690 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | (²) |

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

4.4.EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.4.1. Wireless USB Adapter (EUT)

Model Number : DWA-140
Serial Number : N/A

4.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.4

4.5.Operating Condition of EUT

4.5.1. Setup the EUT and simulator as shown as Section 4.2.

4.5.2. Turned on the power of all equipment.

4.5.3. Notebook run test software to control EUT work in test mode.

4.6.Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

4.7.Radiated Emission Test Results

PASS.

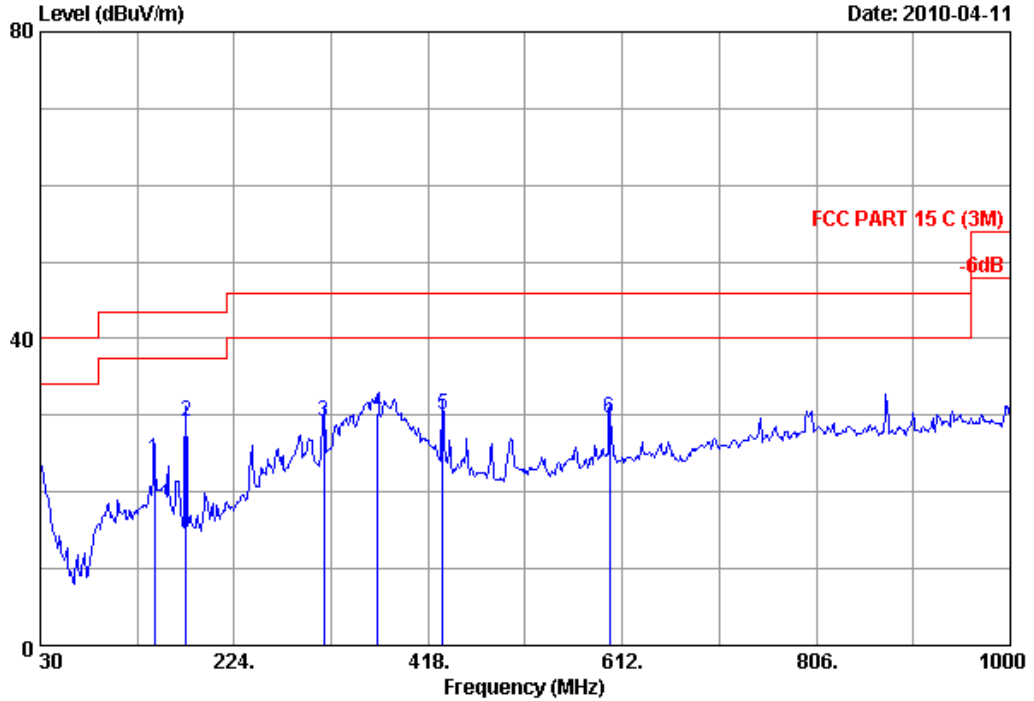
All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

Frequency: 30MHz~1GHz



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Data: 2 File: D:\2010 Reput Data\D'D-LINK\ACS10Q0577.EM6 (6)



Site no. : 3m chamber Data no. : 2
 Dis. / Ant. : 3m CBL6111C Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless USB Adapter
 Power Rating : DC 5V From PC input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N : M/N:DWA-140

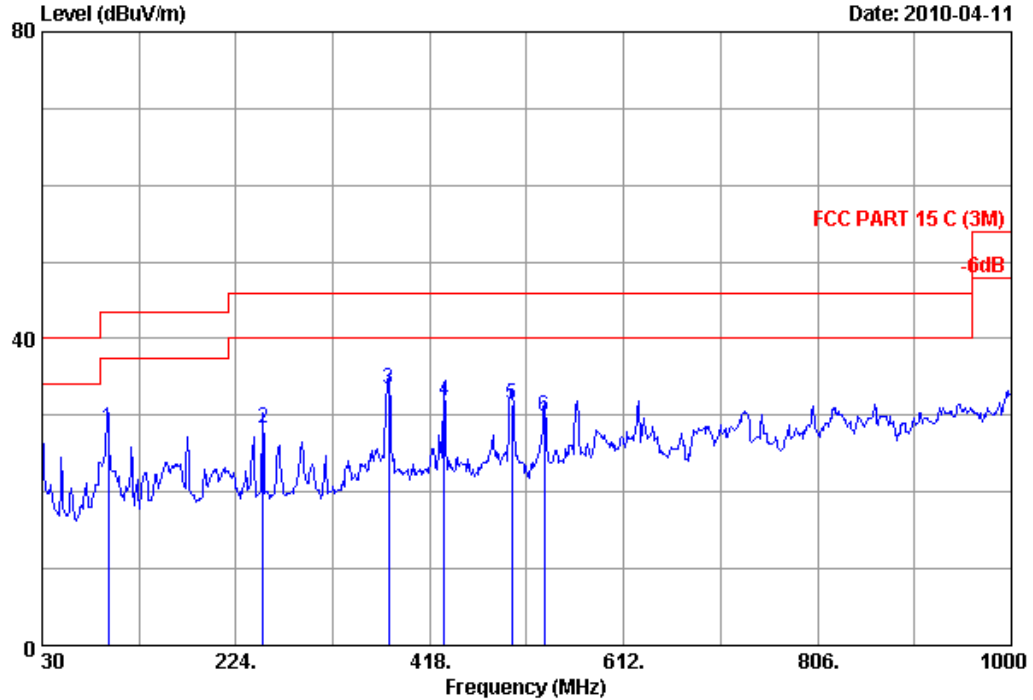
| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-------------------------|-----------------|-------------|--------|
| 1 | 144.460 | 11.78 | 1.07 | 11.53 | 24.38 | 43.50 | 19.12 | QP |
| 2 | 175.500 | 9.64 | 1.20 | 18.39 | 29.23 | 43.50 | 14.27 | QP |
| 3 | 313.240 | 13.80 | 1.76 | 13.66 | 29.22 | 46.00 | 16.78 | QP |
| 4 | 367.560 | 15.41 | 1.87 | 13.01 | 30.29 | 46.00 | 15.71 | QP |
| 5 | 432.550 | 16.90 | 2.03 | 11.10 | 30.03 | 46.00 | 15.97 | QP |
| 6 | 599.390 | 19.47 | 2.49 | 7.76 | 29.72 | 46.00 | 16.28 | QP |

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



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Data: 1 File: D:\2010 Repot Data\DID-LINK\ACS10Q0577.EM6 (6)



Site no. : 3m chamber Data no. : 1
Dis. / Ant. : 3m CBL6111C Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Wireless USB Adapter
Power Rating : DC 5V From PC input AC 120V/60Hz
Test Mode : Tx Mode
M/N : M/N:DWA-140

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-------------------------|-----------------|-------------|--------|
| 1 | 95.960 | 9.74 | 0.88 | 17.73 | 28.35 | 43.50 | 15.15 | QP |
| 2 | 251.160 | 12.75 | 1.64 | 13.83 | 28.22 | 46.00 | 17.78 | QP |
| 3 | 377.260 | 15.57 | 1.88 | 15.96 | 33.41 | 46.00 | 12.59 | QP |
| 4 | 432.550 | 16.90 | 2.03 | 12.86 | 31.79 | 46.00 | 14.21 | QP |
| 5 | 500.450 | 18.04 | 2.25 | 11.22 | 31.51 | 46.00 | 14.49 | QP |
| 6 | 532.460 | 18.25 | 2.33 | 9.38 | 29.96 | 46.00 | 16.04 | QP |

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

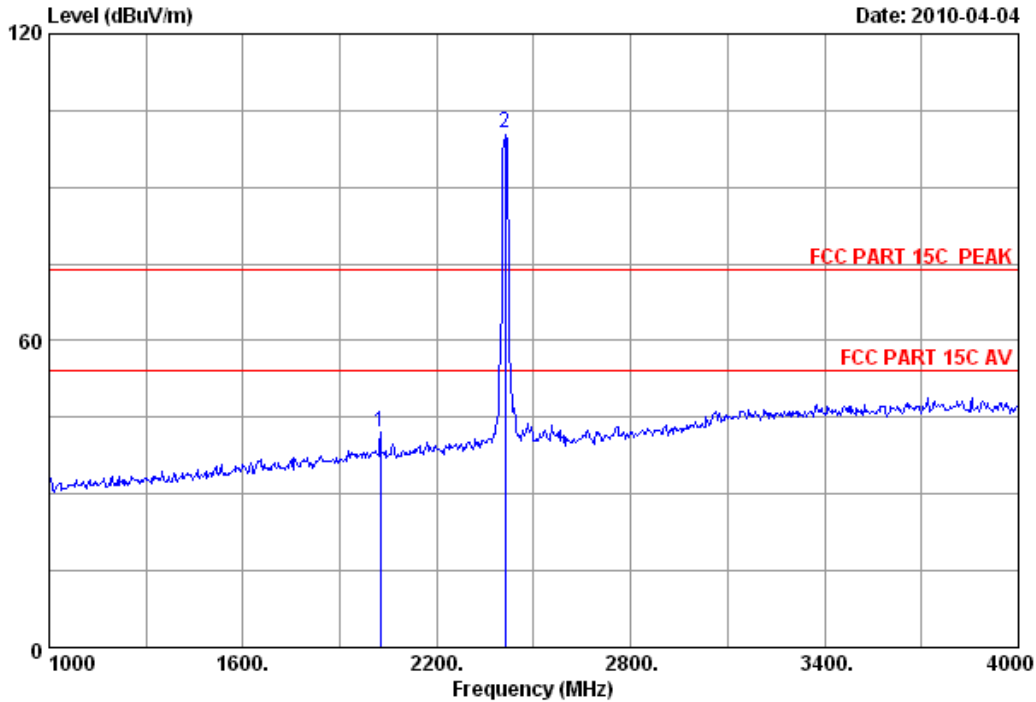
Frequency: 1GHz~18GHz



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Data: 1 File: E:\2010 report data\ACS10Q0577.EM6 (104)

Date: 2010-04-04



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH1 2412MHz Tx Mode
 M/N :

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2026.000 | 29.21 | 7.97 | 36.12 | 41.07 | 42.13 | 74.00 | 31.87 | Peak |
| 2 | 2412.000 | 29.45 | 8.72 | 35.95 | 98.24 | 100.46 | 74.00 | -26.46 | Peak |

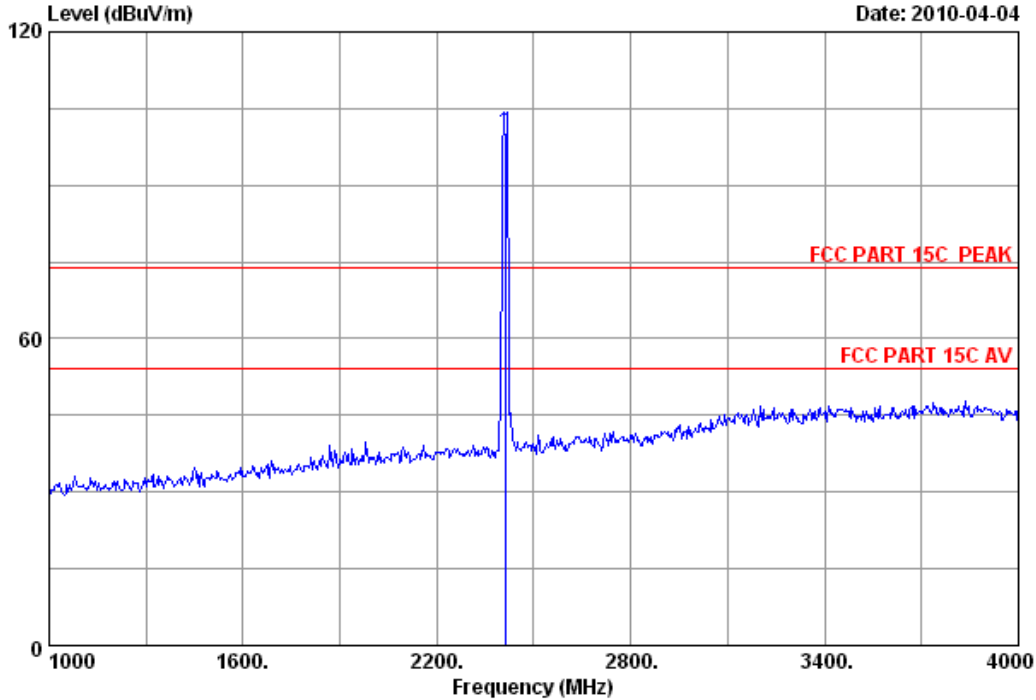
Remarks:

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



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Data: 2 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH1 2412MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 2412.000 | 29.45 | 8.72 | 35.95 | 98.22 | 100.44 | 74.00 | -26.44 | Peak |

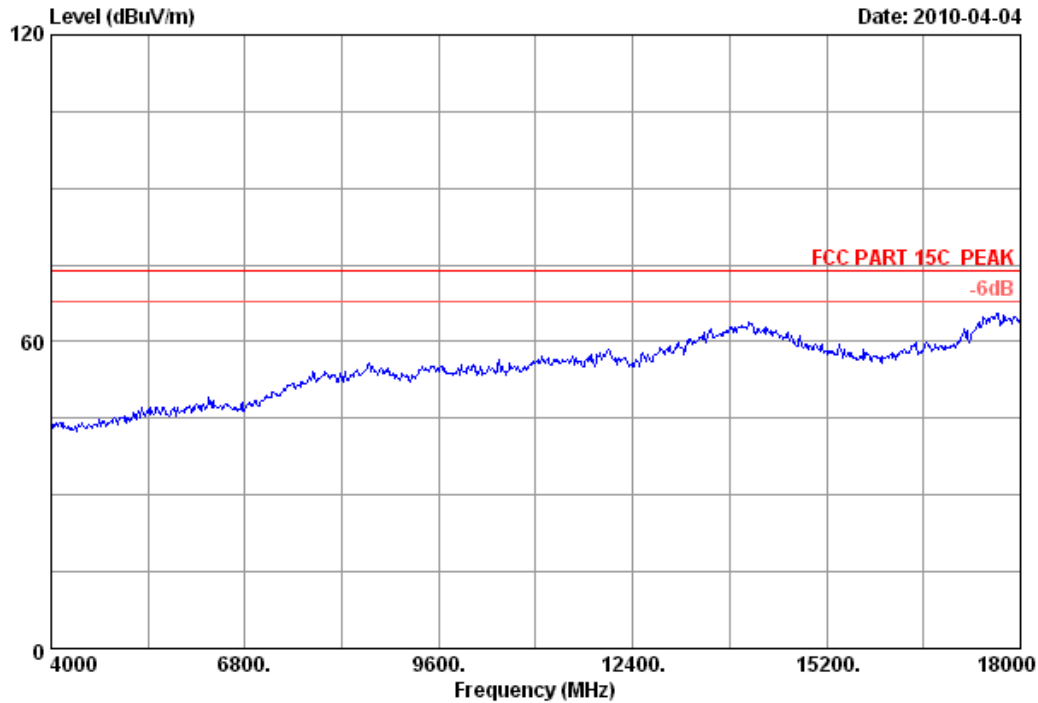
Remarks:

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



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Data: 7 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)

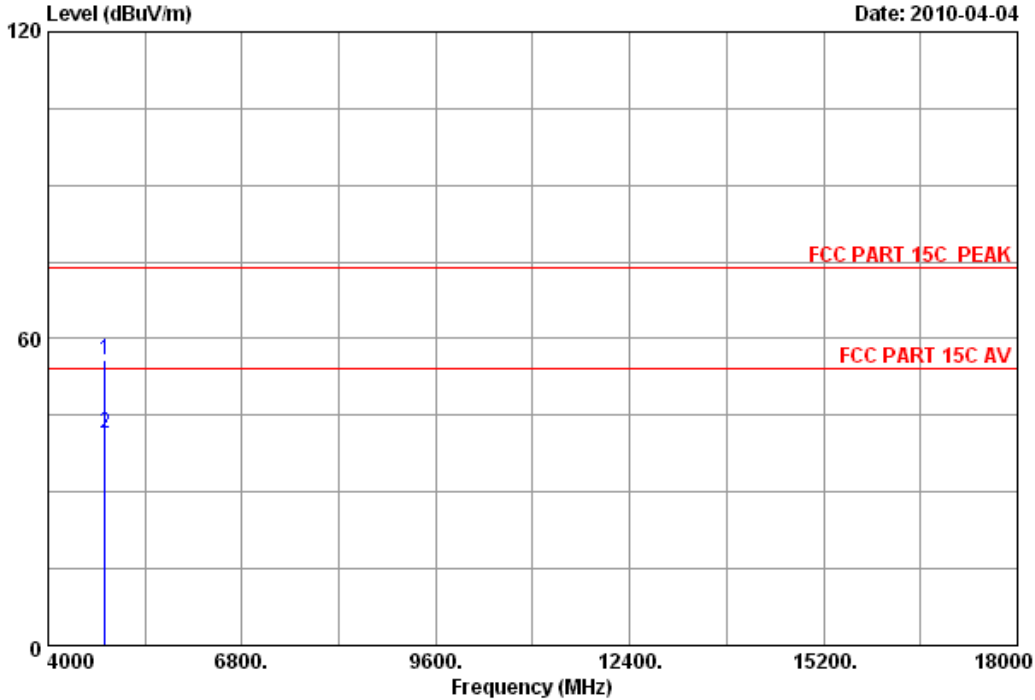


| | | | |
|-------------|------------------------------------|-----------|-------------|
| Site no. | : 3m Chamber | Data no. | : 7 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11b CH1 2412MHz Tx Mode | | |
| M/N | : | | |



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Data: 8 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH1 2412MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4824.000 | 34.32 | 12.38 | 35.25 | 44.51 | 55.96 | 74.00 | 18.04 | Peak |
| 2 | 4824.000 | 34.32 | 12.38 | 35.25 | 30.00 | 41.45 | 54.00 | 12.55 | Average |

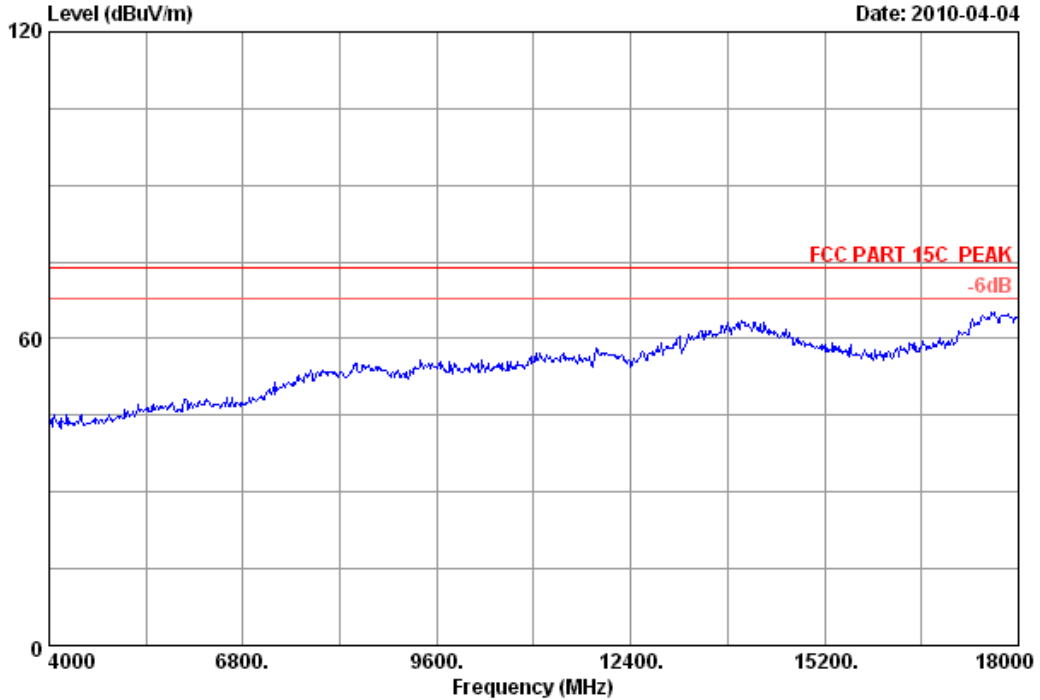
Remarks:

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



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Data: 9 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)

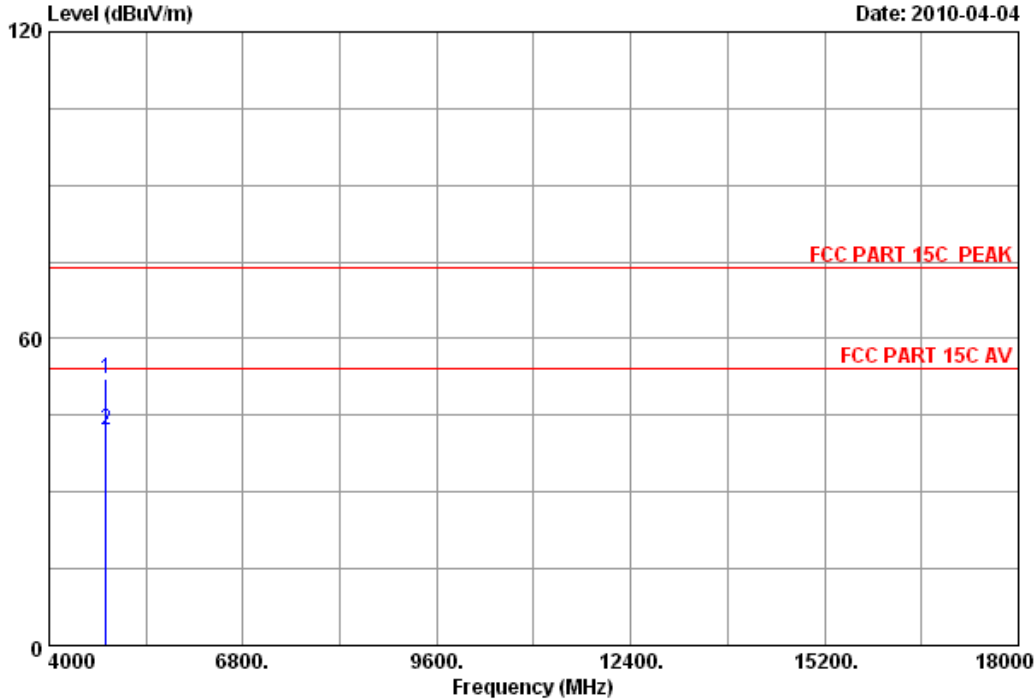


| | | | |
|-------------|------------------------------------|-----------|--------------|
| Site no. | : 3m Chamber | Data no. | : 9 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11b CH1 2412MHz Tx Mode | | |
| M/N | : | | |



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Data: 10 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH1 2412MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4824.000 | 34.32 | 12.38 | 35.25 | 40.66 | 52.11 | 74.00 | 21.89 | Peak |
| 2 | 4824.000 | 34.32 | 12.38 | 35.25 | 30.68 | 42.13 | 54.00 | 11.87 | Average |

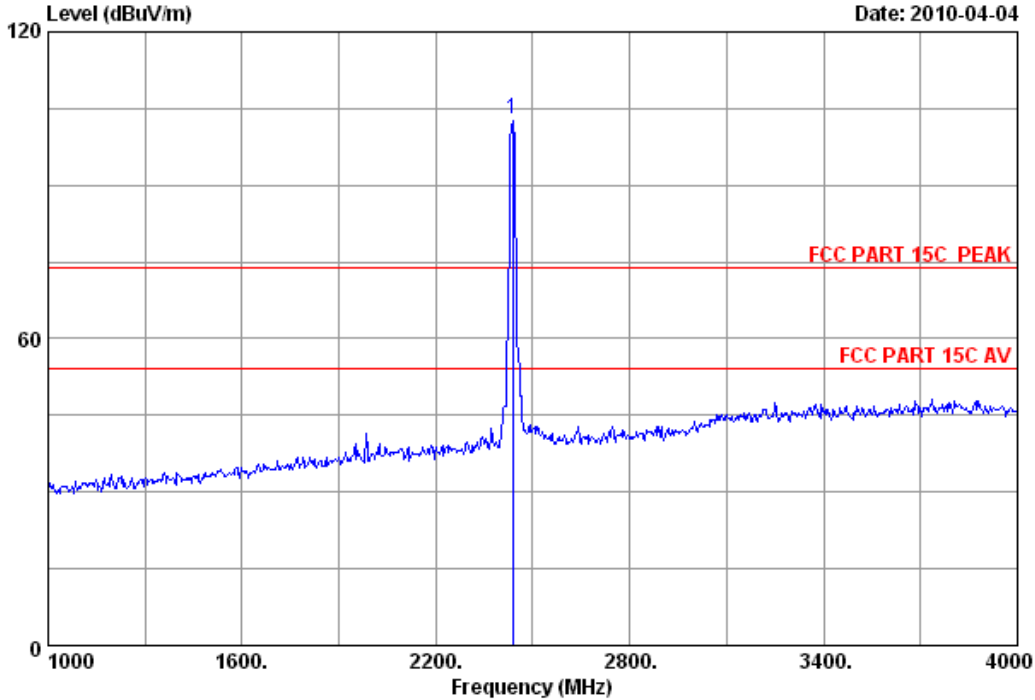
Remarks:

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



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Data: 11 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 11
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH6 2437MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 2437.000 | 29.47 | 8.77 | 36.06 | 100.61 | 102.79 | 74.00 | -28.79 | Peak |

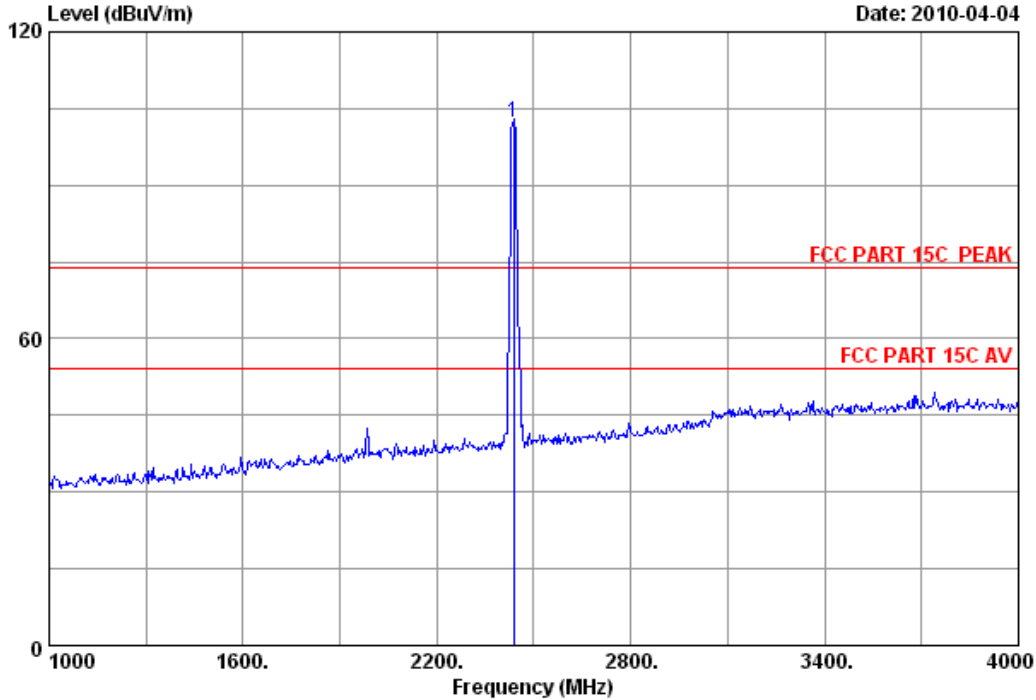
Remarks:

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



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Data: 12 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH6 2437MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 2437.000 | 29.47 | 8.77 | 36.06 | 100.23 | 102.41 | 74.00 | -28.41 | Peak |

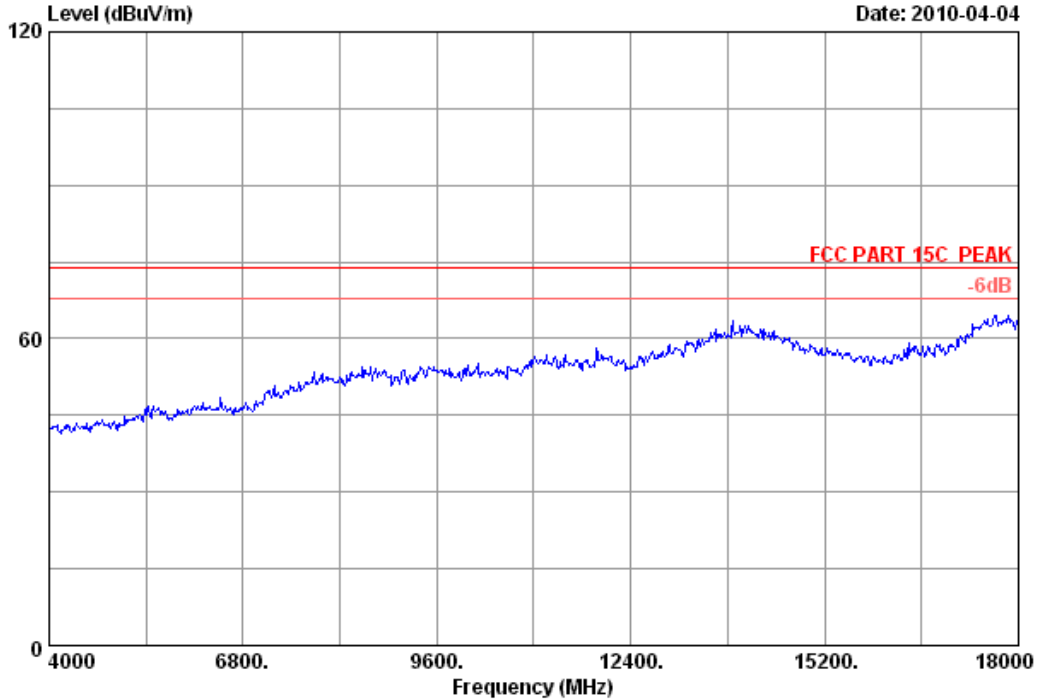
Remarks:

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



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Data: 13 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)

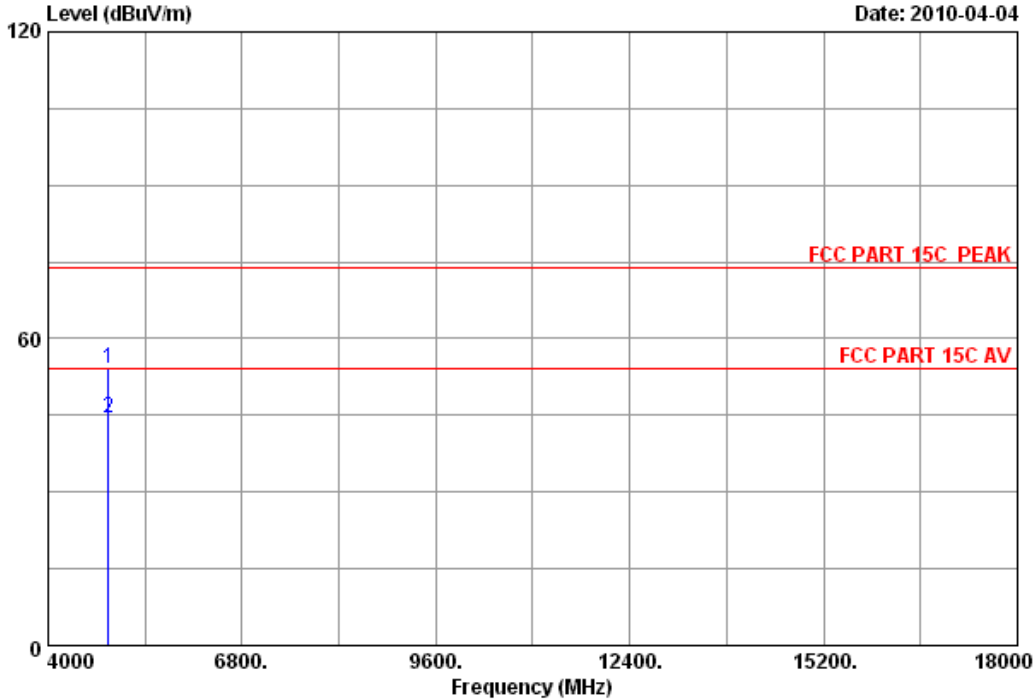


Site no. : 3m Chamber Data no. : 13
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH6 2437MHz Tx Mode
 M/N :



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Data: 14 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH6 2437MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|---------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 4874.000 | 34.41 | 12.44 | 35.36 | 42.72 | 54.21 | 74.00 | 19.79 | Peak |
| 2 | 4874.000 | 34.41 | 12.44 | 35.36 | 32.92 | 44.41 | 54.00 | 9.59 | Average |

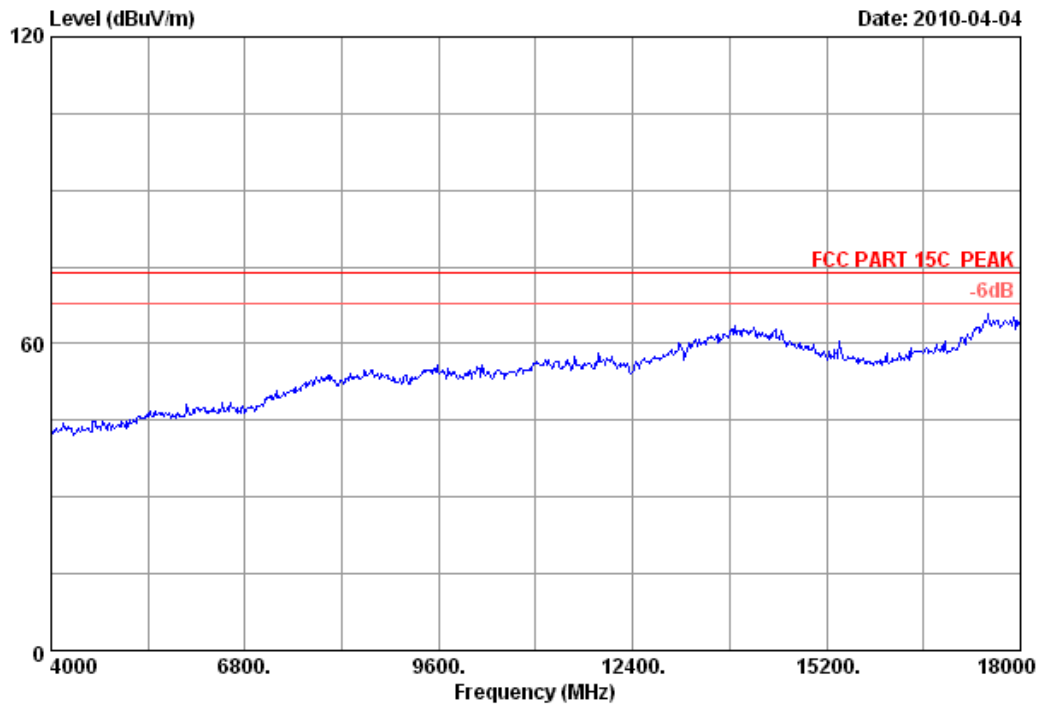
Remarks:

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



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Data: 15 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)

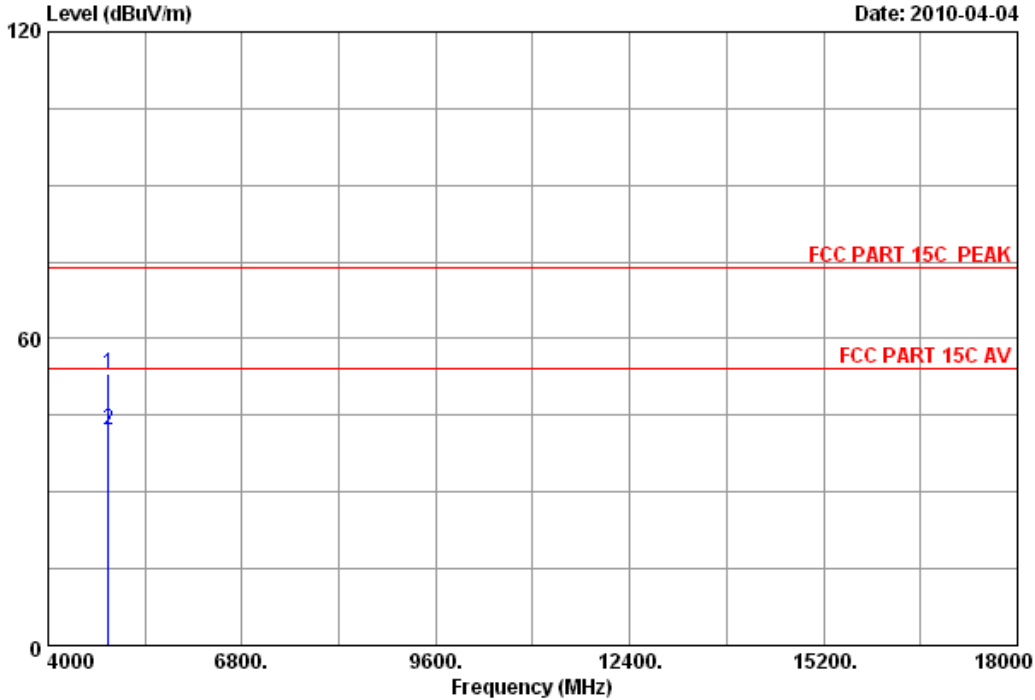


| | | | |
|-------------|------------------------------------|-----------|-------------|
| Site no. | : 3m Chamber | Data no. | : 15 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11b CH6 2437MHz Tx Mode | | |
| M/N | : | | |



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Data: 16 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH6 2437MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|---------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 4874.000 | 34.41 | 12.44 | 35.36 | 41.78 | 53.27 | 74.00 | 20.73 | Peak |
| 2 | 4874.000 | 34.41 | 12.44 | 35.36 | 30.61 | 42.10 | 54.00 | 11.90 | Average |

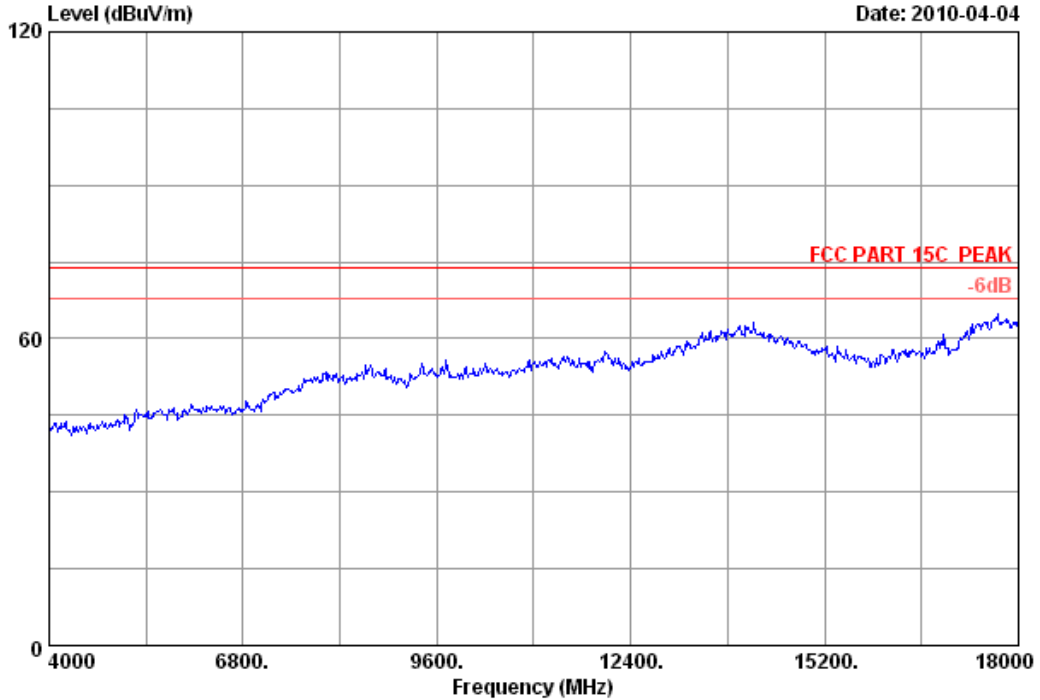
Remarks:

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



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Data: 17 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)

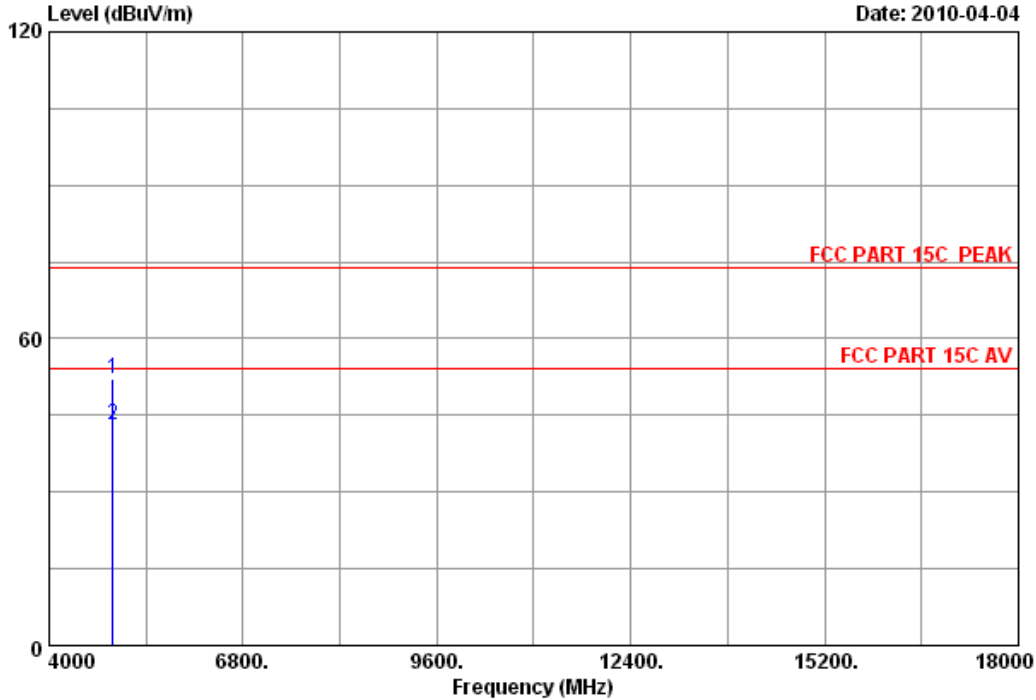


| | | | |
|-------------|------------------------------------|-----------|-------------|
| Site no. | : 3m Chamber | Data no. | : 17 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11b CH11 2462MHz Tx Mode | | |
| M/N | : | | |



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Data: 18 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH11 2462MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|---------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 4924.000 | 34.49 | 12.50 | 35.34 | 40.38 | 52.03 | 74.00 | 21.97 | Peak |
| 2 | 4924.000 | 34.49 | 12.50 | 35.34 | 31.48 | 43.13 | 54.00 | 10.87 | Average |

Remarks:

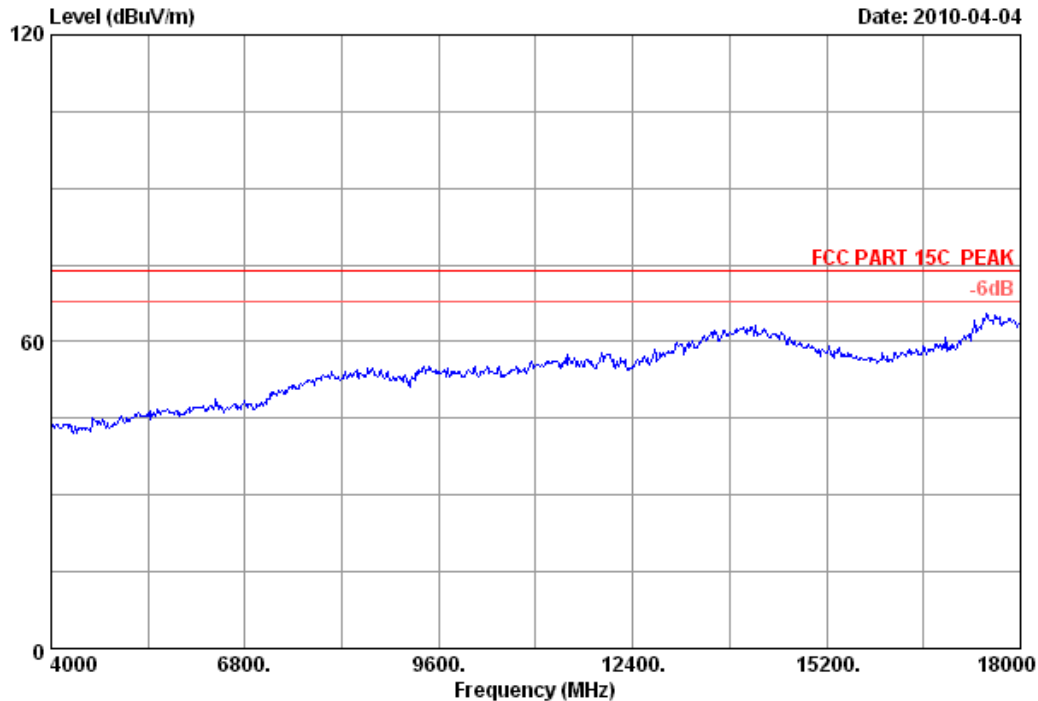
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 19

File: E:\2010 report data\D\ACS10Q0577.EM6 (104)

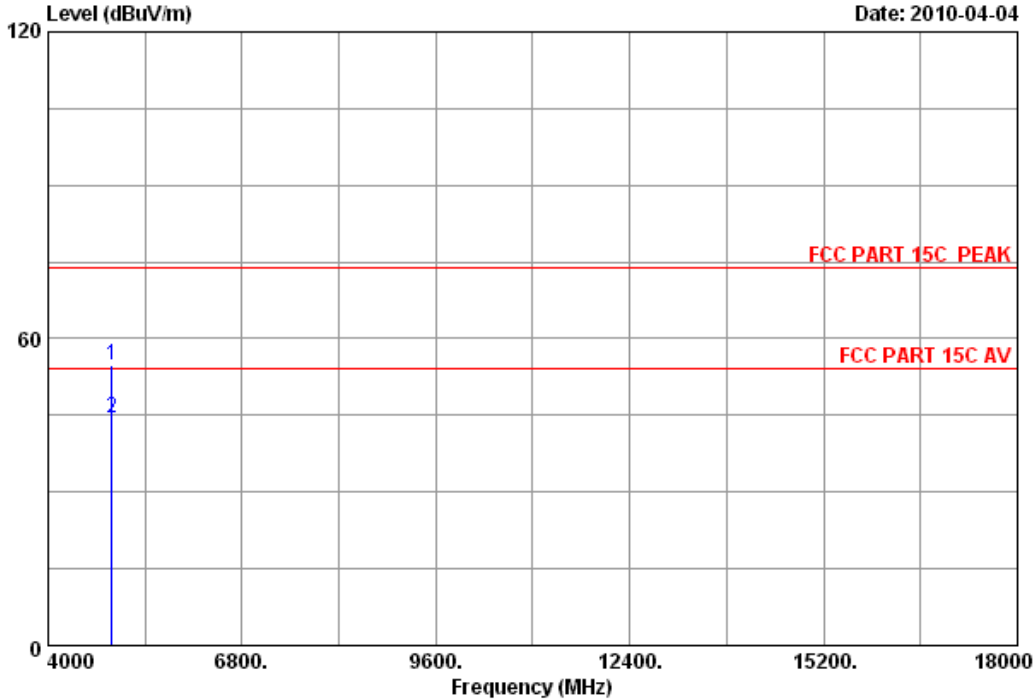


| | | | |
|-------------|------------------------------------|-----------|--------------|
| Site no. | : 3m Chamber | Data no. | : 19 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11b CH11 2462MHz Tx Mode | | |
| M/N | : | | |



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Data: 20 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH11 2462MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4924.000 | 34.49 | 12.50 | 35.34 | 43.25 | 54.90 | 74.00 | 19.10 | Peak |
| 2 | 4924.000 | 34.49 | 12.50 | 35.34 | 32.84 | 44.49 | 54.00 | 9.51 | Average |

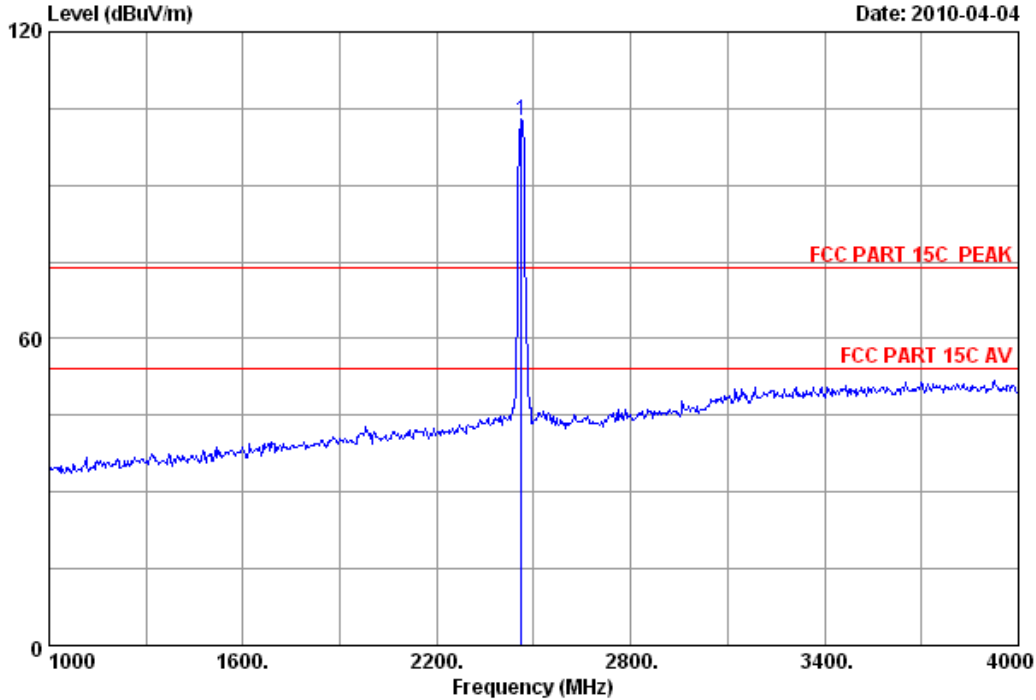
Remarks:

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



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Data: 21 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 21
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH11 2462MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
| 1 | 2462.000 | 29.48 | 8.82 | 36.02 | 100.36 | 102.64 | 74.00 | -28.64 | Peak |

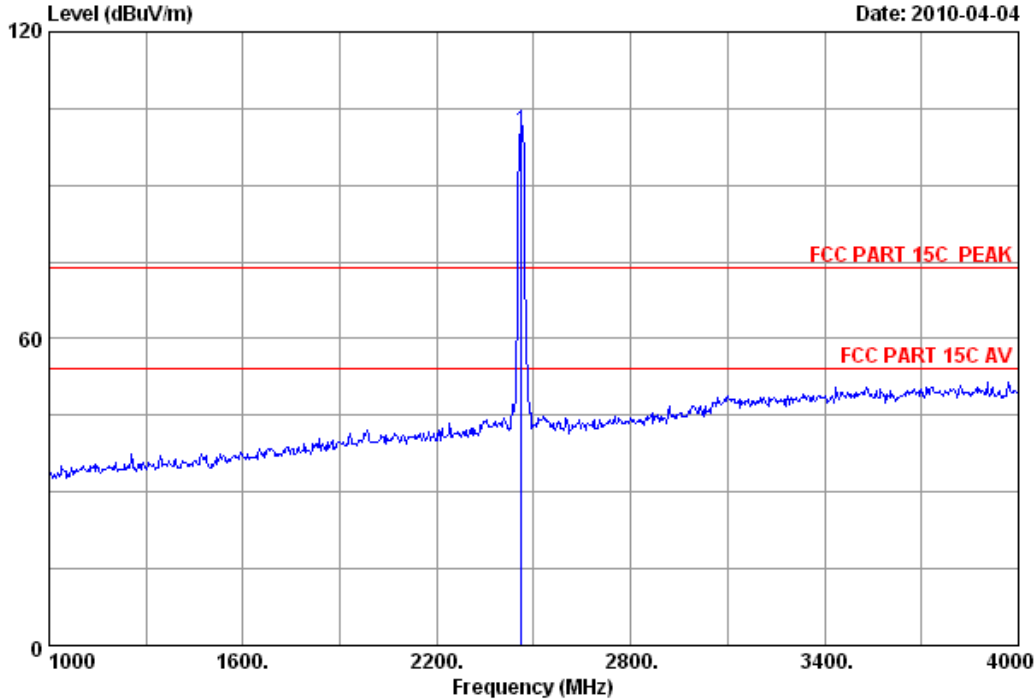
Remarks:

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



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Data: 22 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH11 2462MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 2462.000 | 29.48 | 8.82 | 36.02 | 98.23 | 100.51 | 74.00 | -26.51 | Peak |

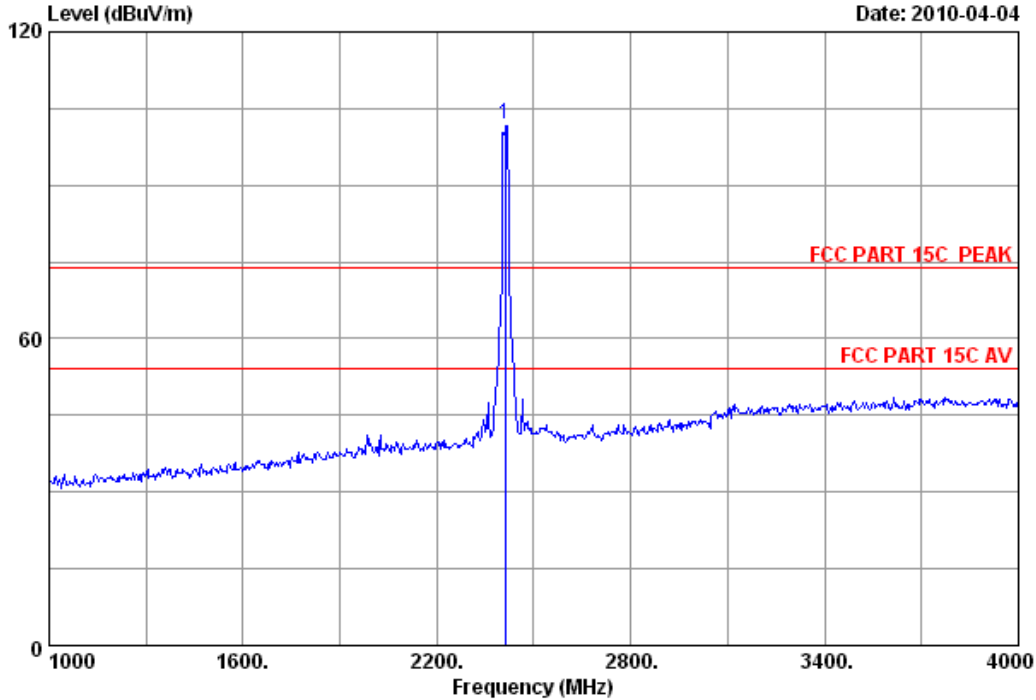
Remarks:

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



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Data: 31 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 31
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH1 2412MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
| 1 | 2412.000 | 29.45 | 8.72 | 35.95 | 99.68 | 101.90 | 74.00 | -27.90 | Peak |

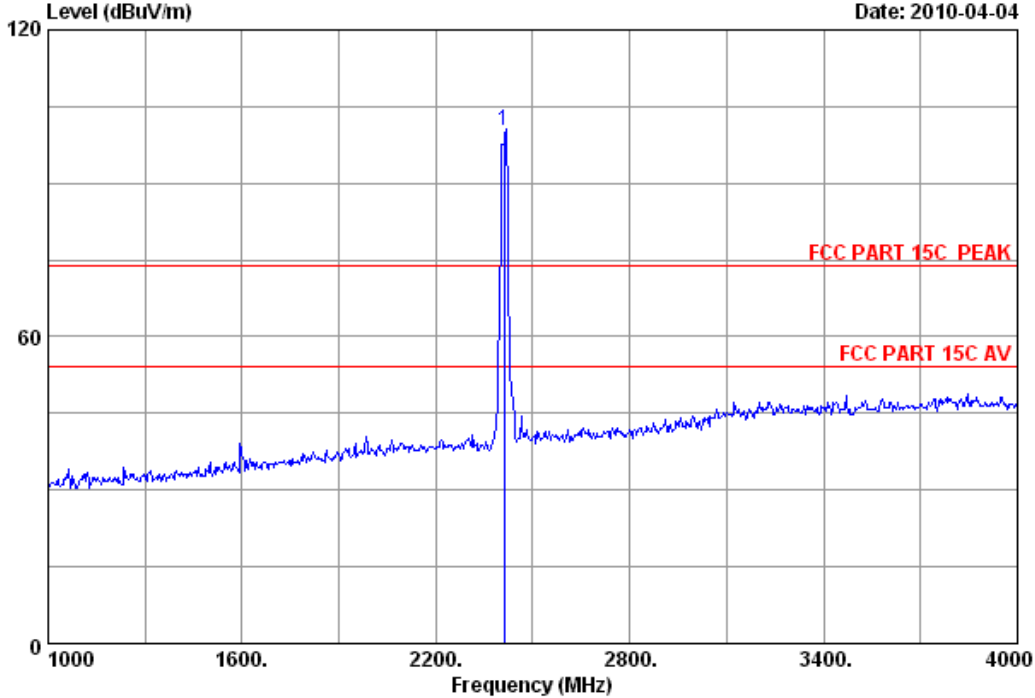
Remarks:

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



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Data: 32 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH1 2412MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 2412.000 | 29.45 | 8.72 | 35.95 | 98.11 | 100.33 | 74.00 | -26.33 | Peak |

Remarks:

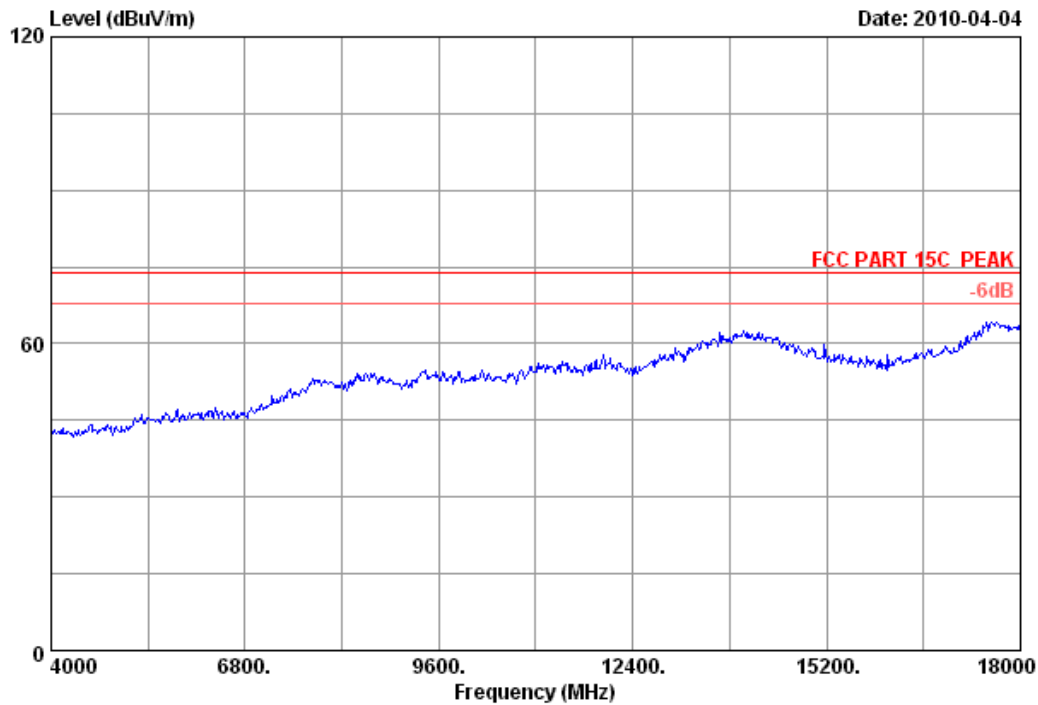
- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 33

File: E:\2010 report data\D\ACS10Q0577.EM6 (104)

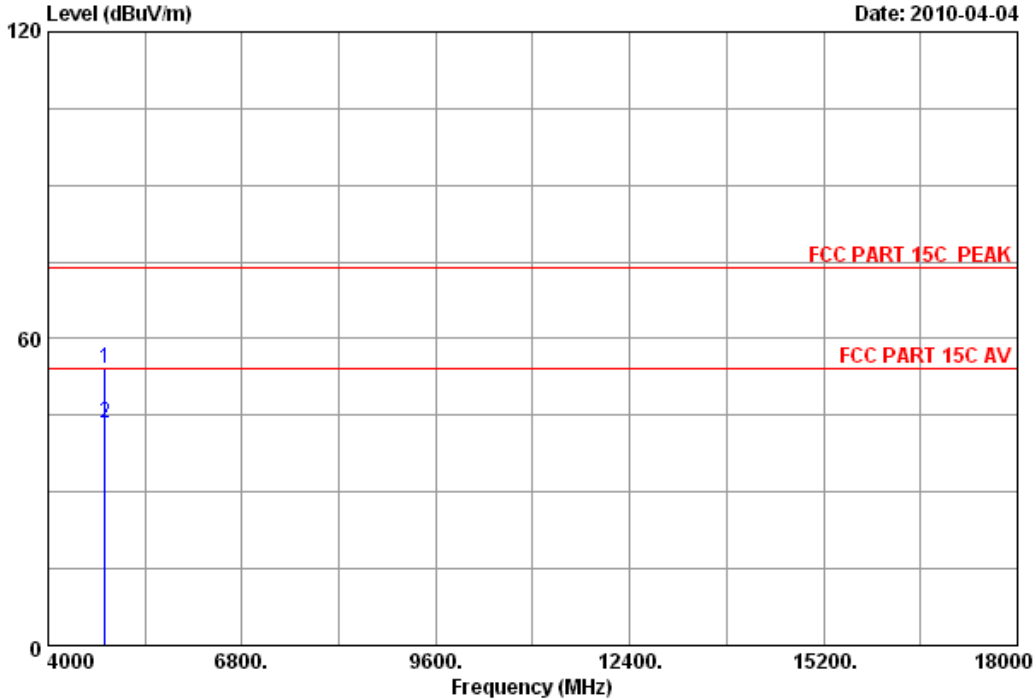


| | | | |
|-------------|------------------------------------|-----------|-------------|
| Site no. | : 3m Chamber | Data no. | : 33 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11g CH1 2412MHz Tx Mode | | |
| M/N | : | | |



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Data: 34 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 34
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH1 2412MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4824.000 | 34.32 | 12.38 | 35.25 | 42.63 | 54.08 | 74.00 | 19.92 | Peak |
| 2 | 4824.000 | 34.32 | 12.38 | 35.25 | 31.98 | 43.43 | 54.00 | 10.57 | Average |

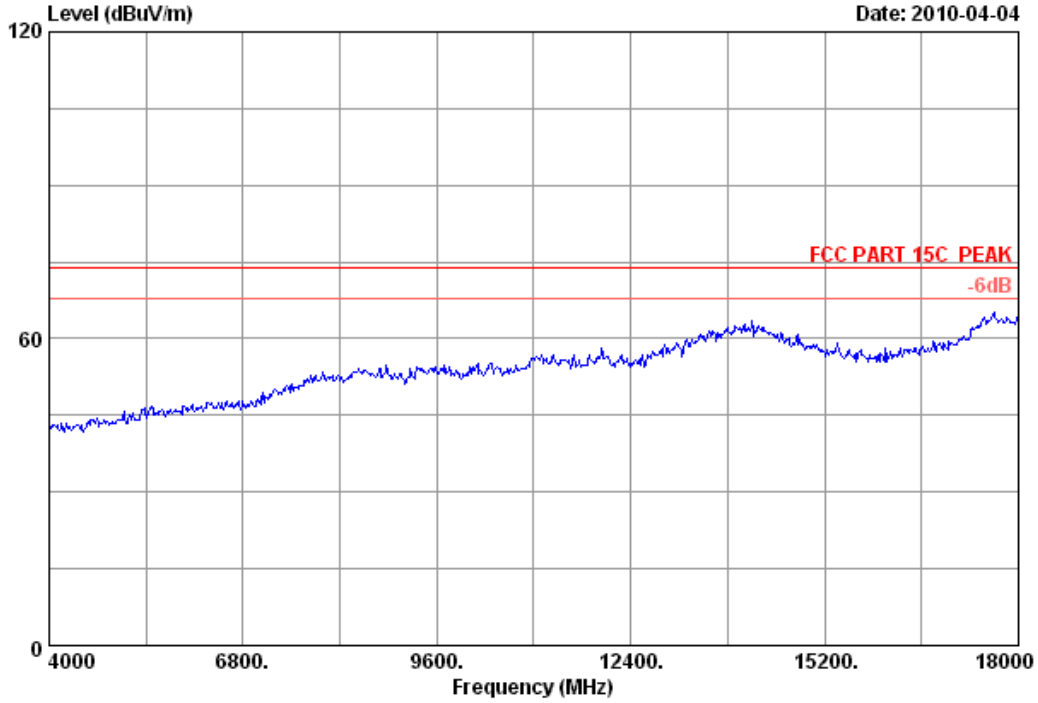
Remarks:

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



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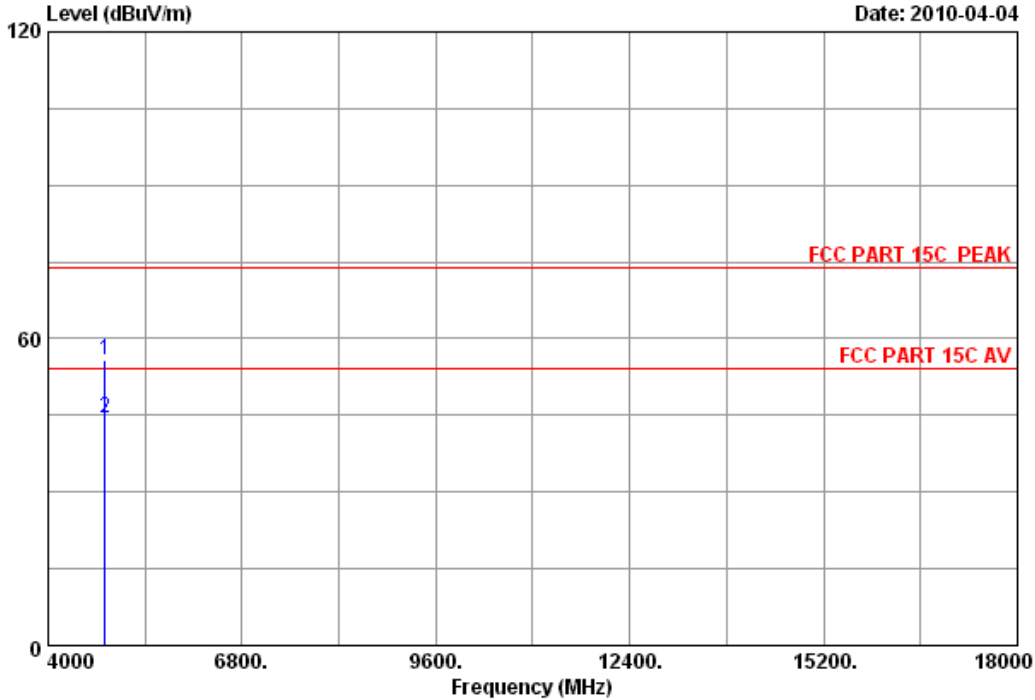


| | | | |
|-------------|------------------------------------|-----------|--------------|
| Site no. | : 3m Chamber | Data no. | : 35 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11g CH1 2412MHz Tx Mode | | |
| M/N | : | | |



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Data: 36 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 36
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH1 2412MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4824.000 | 34.32 | 12.38 | 35.25 | 44.24 | 55.69 | 74.00 | 18.31 | Peak |
| 2 | 4824.000 | 34.32 | 12.38 | 35.25 | 32.86 | 44.31 | 54.00 | 9.69 | Average |

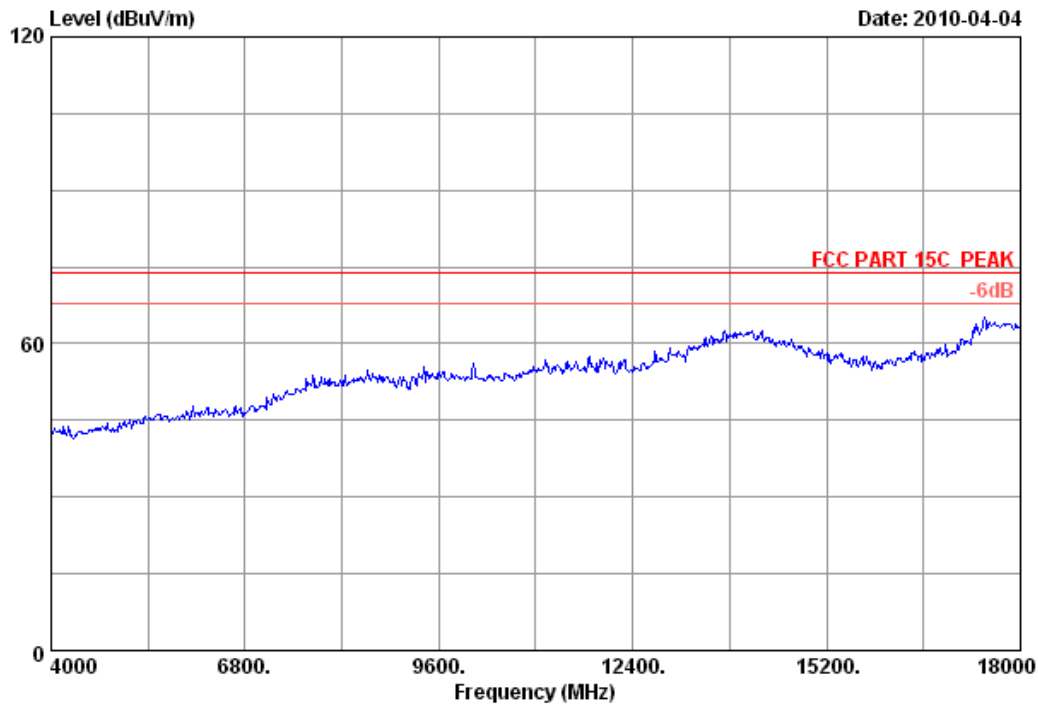
Remarks:

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



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Data: 37 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)

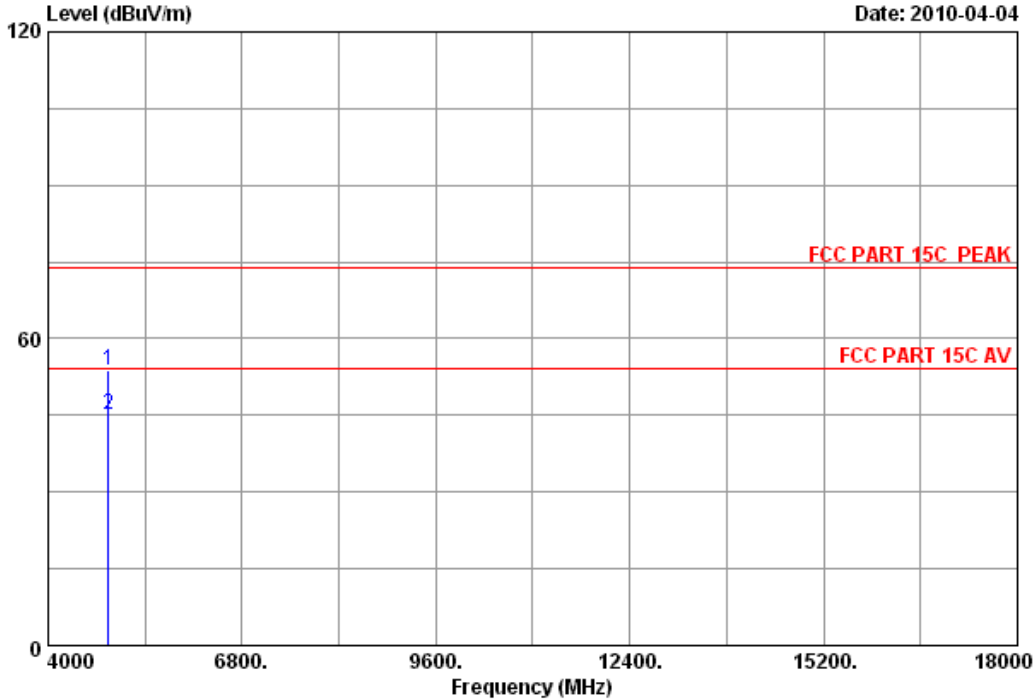


| | | | |
|-------------|------------------------------------|-----------|--------------|
| Site no. | : 3m Chamber | Data no. | : 37 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11g CH6 2437MHz Tx Mode | | |
| M/N | : | | |



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Site no. : 3m Chamber Data no. : 38
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH6 2437MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4874.000 | 34.41 | 12.44 | 35.36 | 42.45 | 53.94 | 74.00 | 20.06 | Peak |
| 2 | 4874.000 | 34.41 | 12.44 | 35.36 | 33.59 | 45.08 | 54.00 | 8.92 | Average |

Remarks:

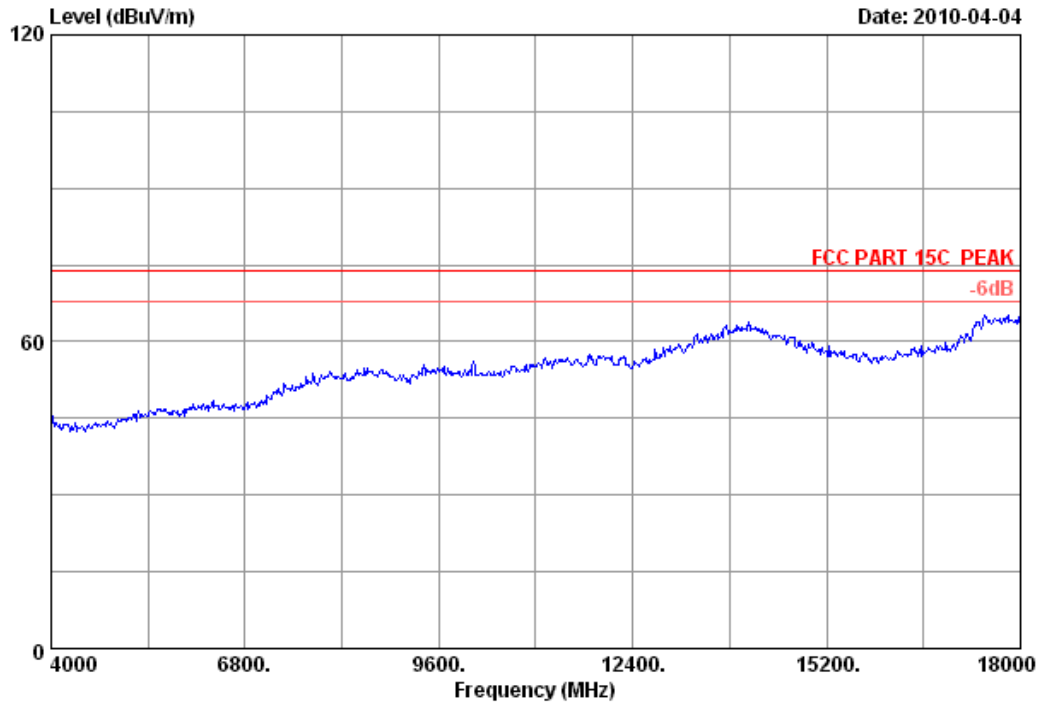
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 39

File: E:\2010 report data\D\ACS10Q0577.EM6 (104)

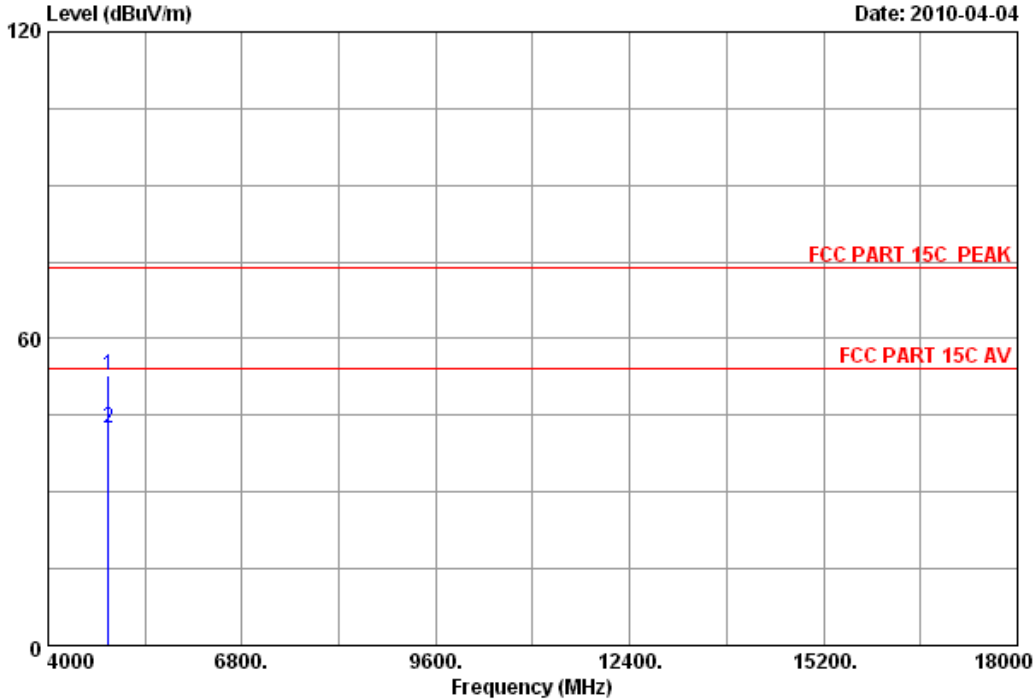


| | | | |
|-------------|------------------------------------|-----------|-------------|
| Site no. | : 3m Chamber | Data no. | : 39 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11g CH6 2437MHz Tx Mode | | |
| M/N | : | | |



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Data: 40 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 40
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH6 2437MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4874.000 | 34.41 | 12.44 | 35.36 | 41.47 | 52.96 | 74.00 | 21.04 | Peak |
| 2 | 4874.000 | 34.41 | 12.44 | 35.36 | 31.08 | 42.57 | 54.00 | 11.43 | Average |

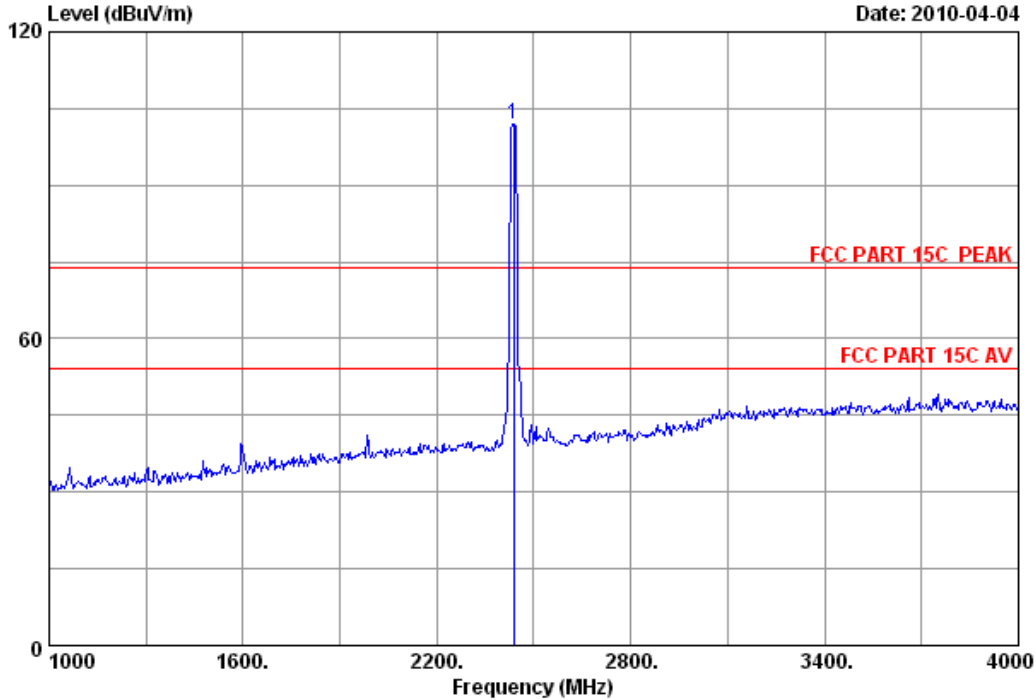
Remarks:

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



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Site no. : 3m Chamber Data no. : 41
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH6 2437MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 2437.000 | 29.47 | 8.77 | 36.06 | 99.85 | 102.03 | 74.00 | -28.03 | Peak |

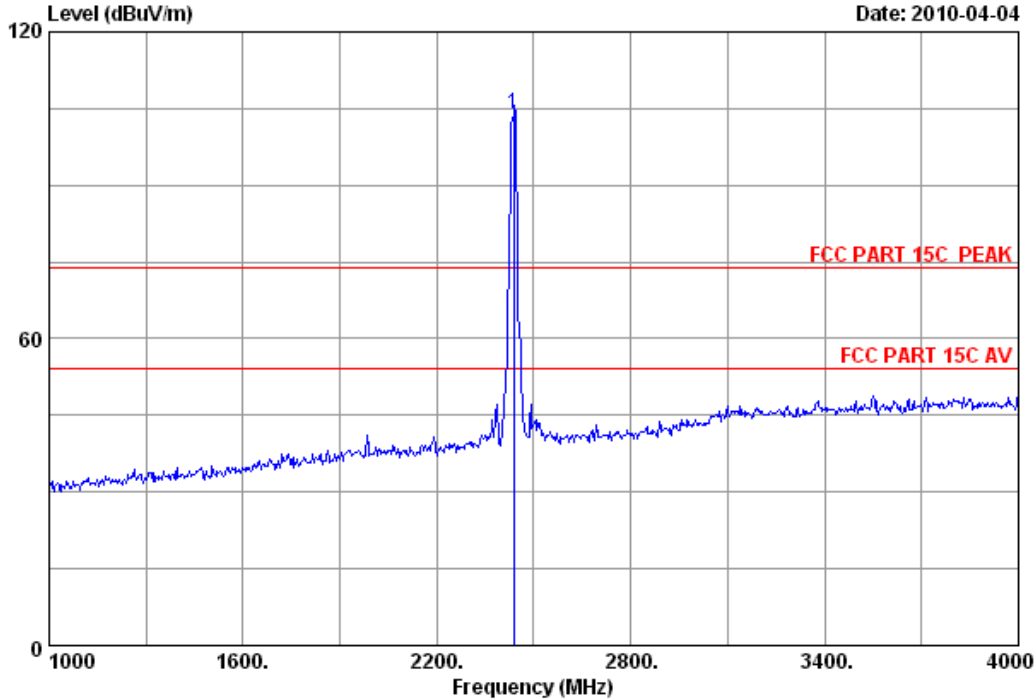
Remarks:

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



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Site no. : 3m Chamber Data no. : 42
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH6 2437MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 2437.000 | 29.47 | 8.77 | 36.06 | 101.76 | 103.94 | 74.00 | -29.94 | Peak |

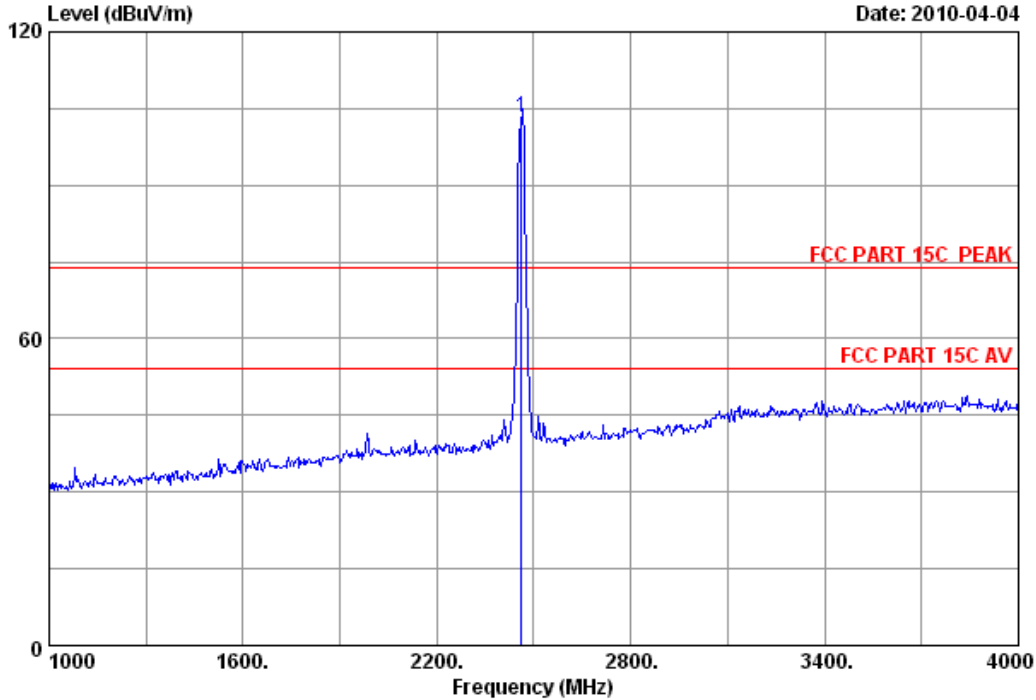
Remarks:

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



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Site no. : 3m Chamber Data no. : 43
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH11 2462MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 2462.000 | 29.48 | 8.82 | 36.02 | 100.96 | 103.24 | 74.00 | -29.24 | Peak |

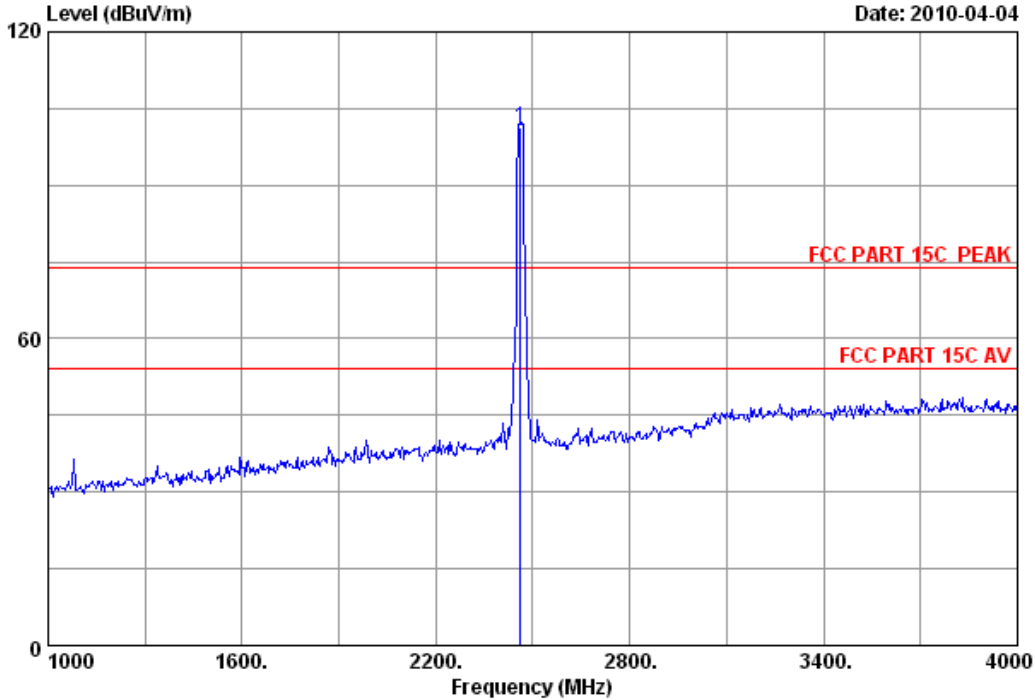
Remarks:

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



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Site no. : 3m Chamber Data no. : 44
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH11 2462MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 2462.000 | 29.48 | 8.82 | 36.02 | 99.15 | 101.43 | 74.00 | -27.43 | Peak |

Remarks:

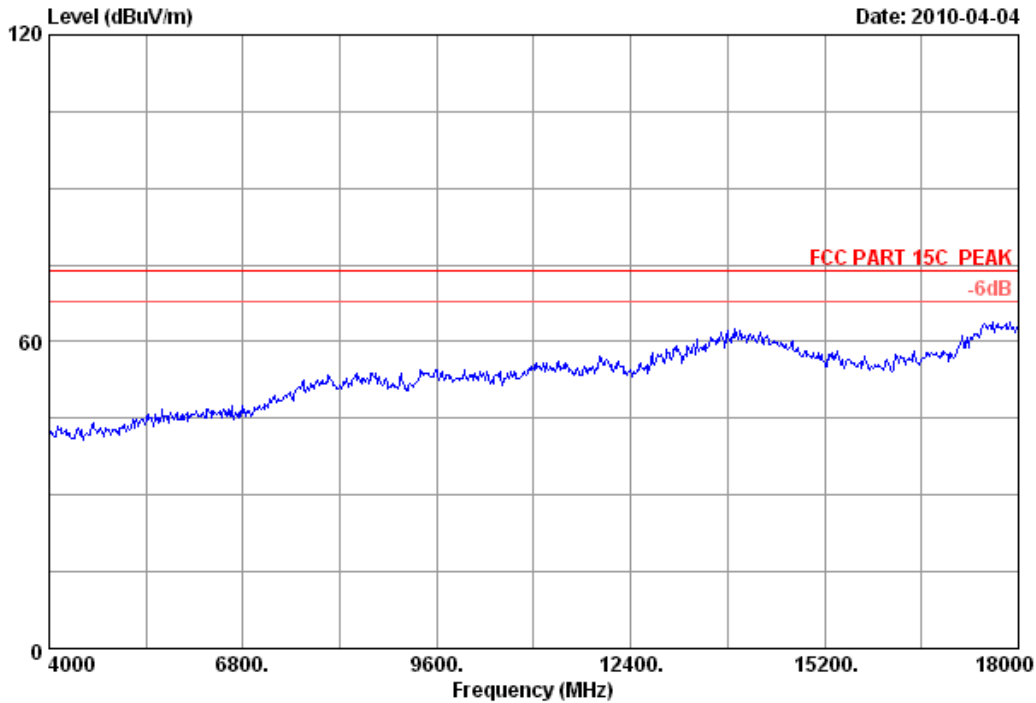
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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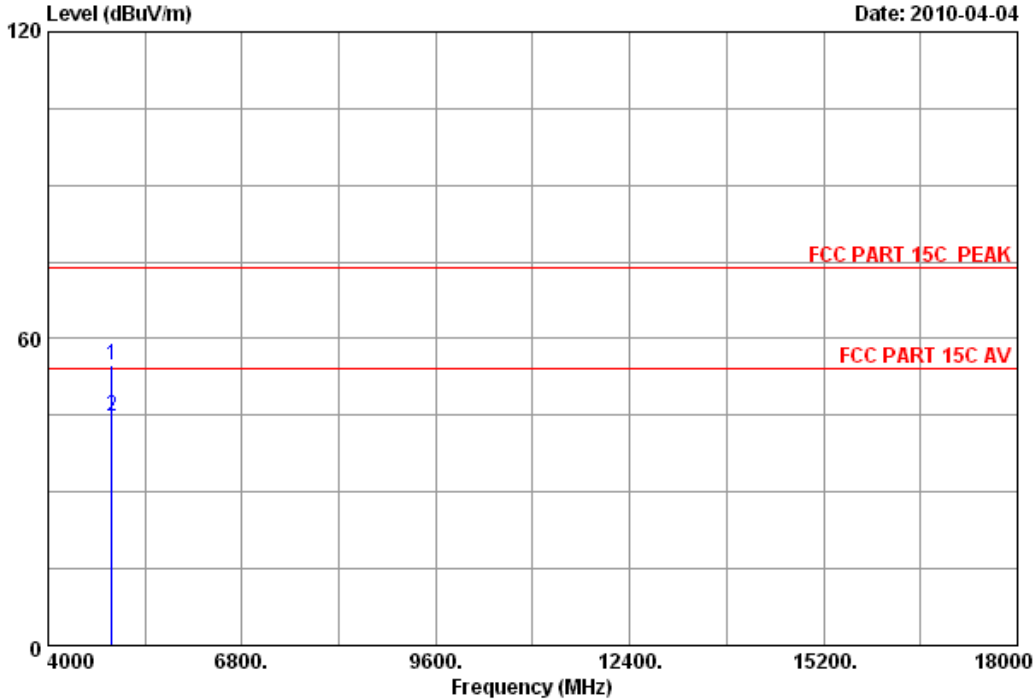


| | | | |
|-------------|------------------------------------|-----------|--------------|
| Site no. | : 3m Chamber | Data no. | : 49 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11g CH11 2462MHz Tx Mode | | |
| M/N | : | | |



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Site no. : 3m Chamber Data no. : 50
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH11 2462MHz Tx Mode
 M/N :

| | Ant. Freq. (MHz) | Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|---------------|-----------------|------------------|----------------|-------------------------|-----------------|-------------|---------|
| 1 | 4924.000 | 34.49 | 12.50 | 35.34 | 43.12 | 54.77 | 74.00 | 19.23 | Peak |
| 2 | 4924.000 | 34.49 | 12.50 | 35.34 | 33.18 | 44.83 | 54.00 | 9.17 | Average |

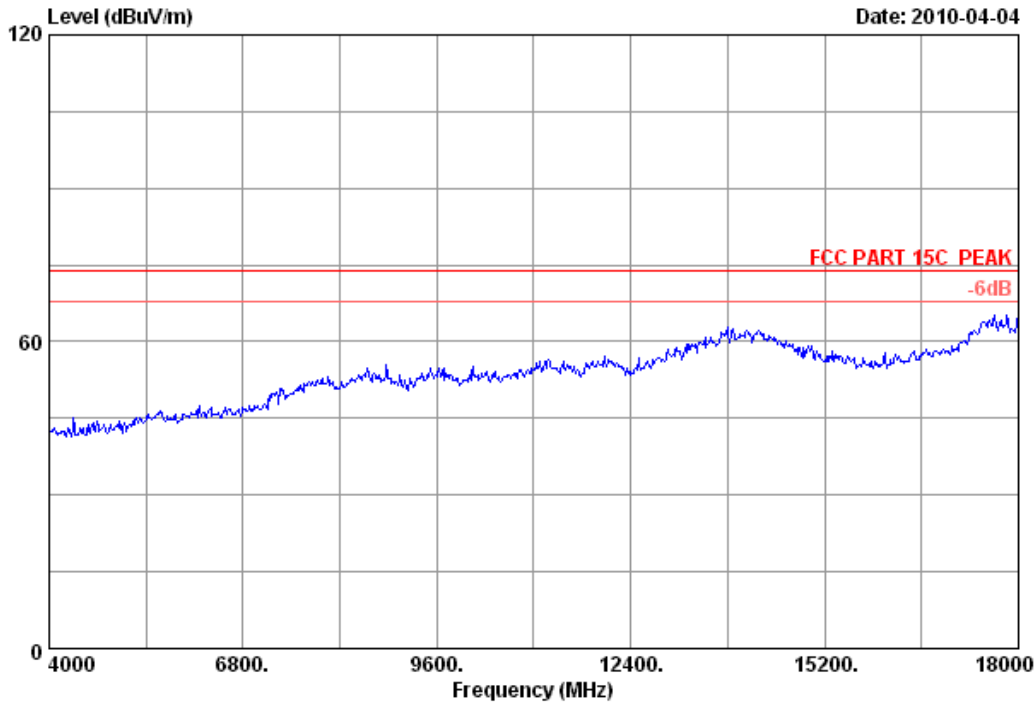
Remarks:

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



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Data: 51 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)

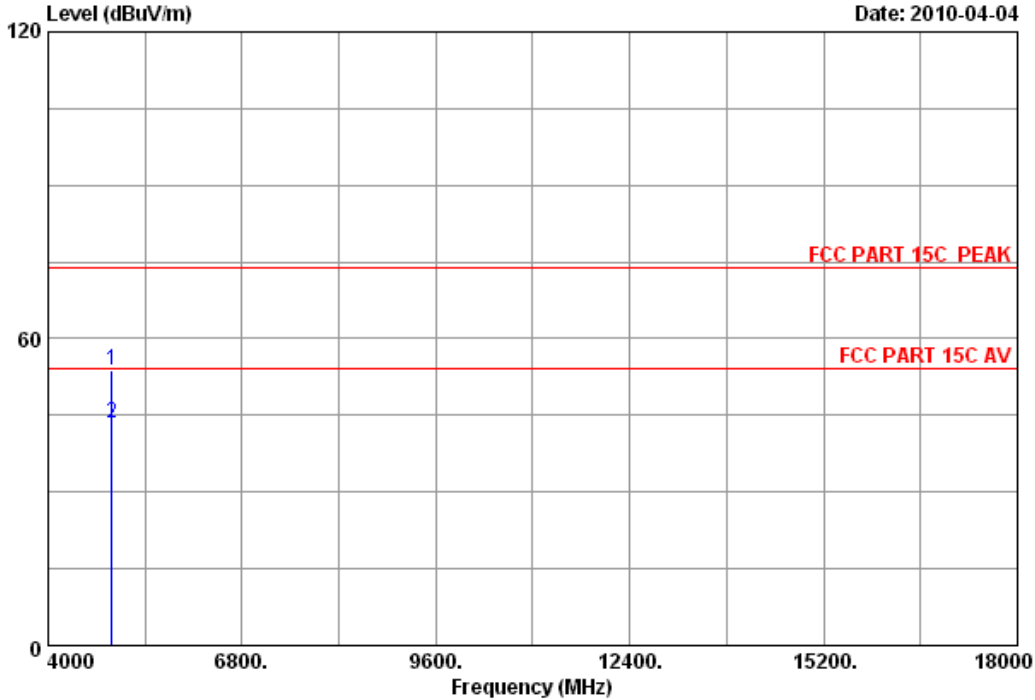


| | | | |
|-------------|------------------------------------|-----------|-------------|
| Site no. | : 3m Chamber | Data no. | : 51 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11g CH11 2462MHz Tx Mode | | |
| M/N | : | | |



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Data: 52 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 52
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH11 2462MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|---------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 4924.000 | 34.49 | 12.50 | 35.34 | 42.08 | 53.73 | 74.00 | 20.27 | Peak |
| 2 | 4924.000 | 34.49 | 12.50 | 35.34 | 31.86 | 43.51 | 54.00 | 10.49 | Average |

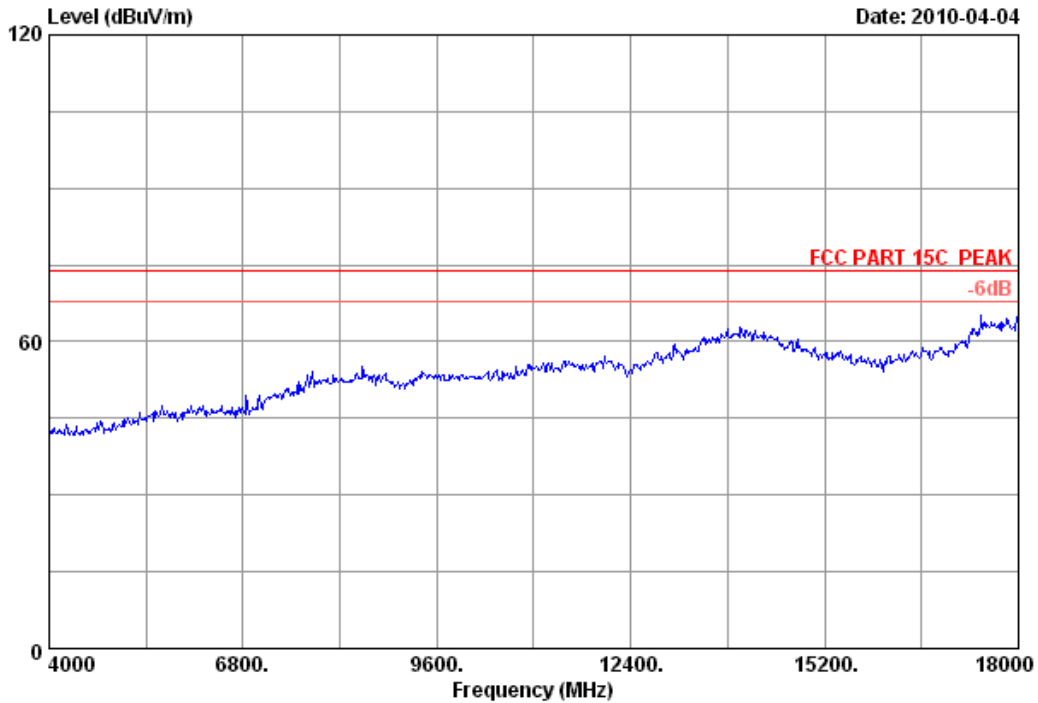
Remarks:

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



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Data: 53 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)

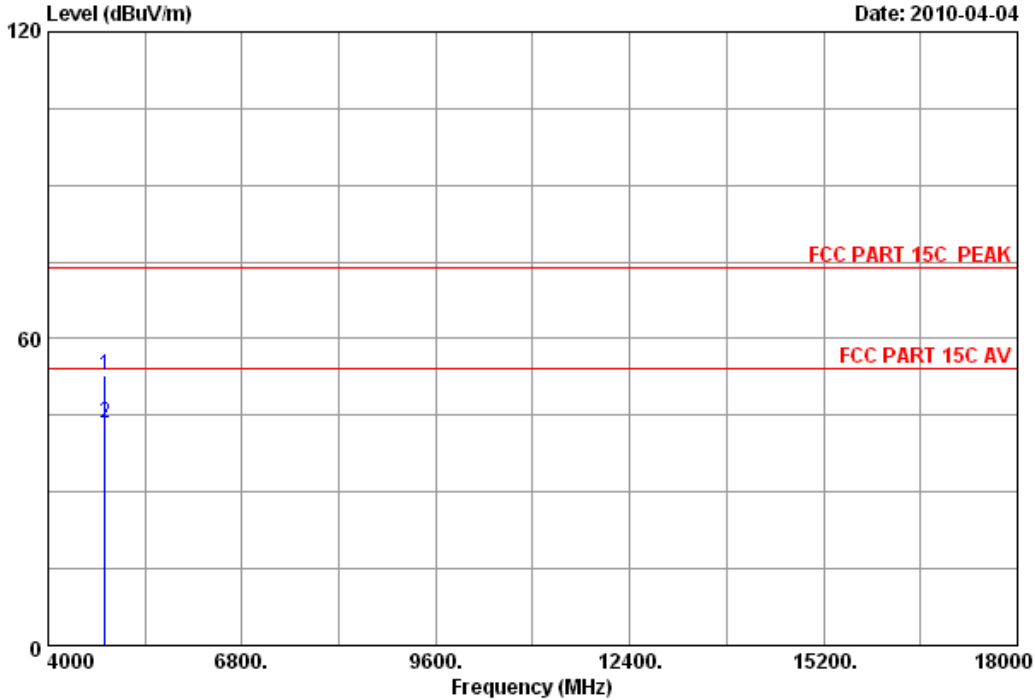


| | | | |
|-------------|------------------------------------|-----------|-------------|
| Site no. | : 3m Chamber | Data no. | : 53 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11nHT20 CH1 2412MHz | Tx Mode | |
| M/N | : | | |



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Data: 54 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH1 2412MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|---------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 4824.000 | 34.32 | 12.38 | 35.25 | 41.38 | 52.83 | 74.00 | 21.17 | Peak |
| 2 | 4824.000 | 34.32 | 12.38 | 35.25 | 31.86 | 43.31 | 54.00 | 10.69 | Average |

Remarks:

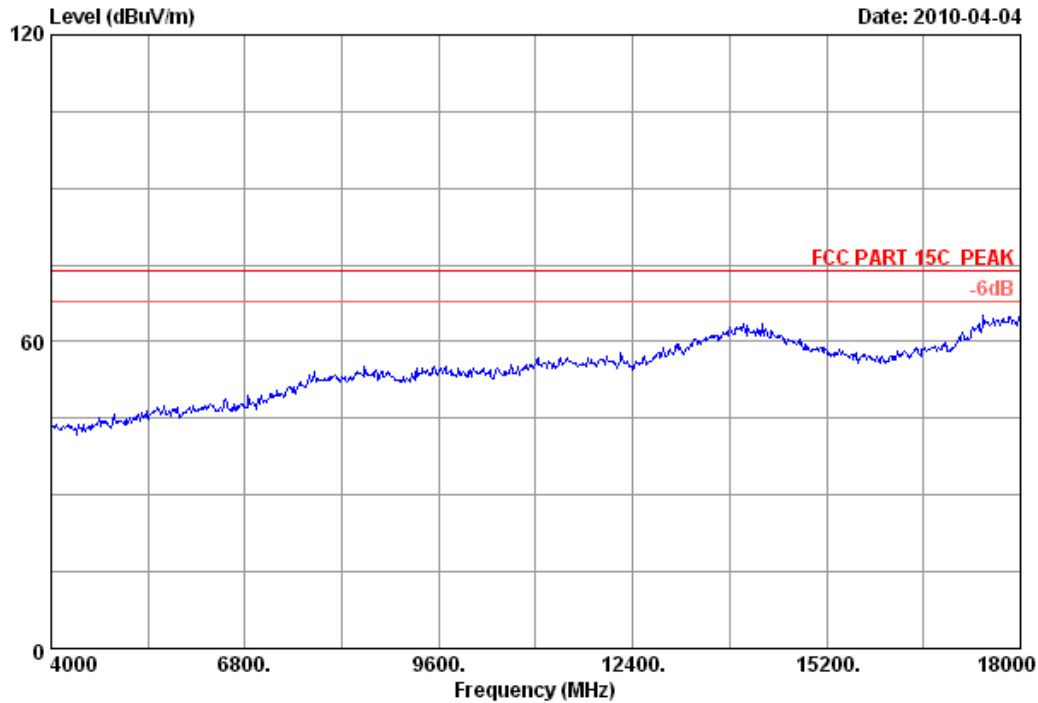
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 55

File: E:\2010 report data\D\ACS10Q0577.EM6 (104)

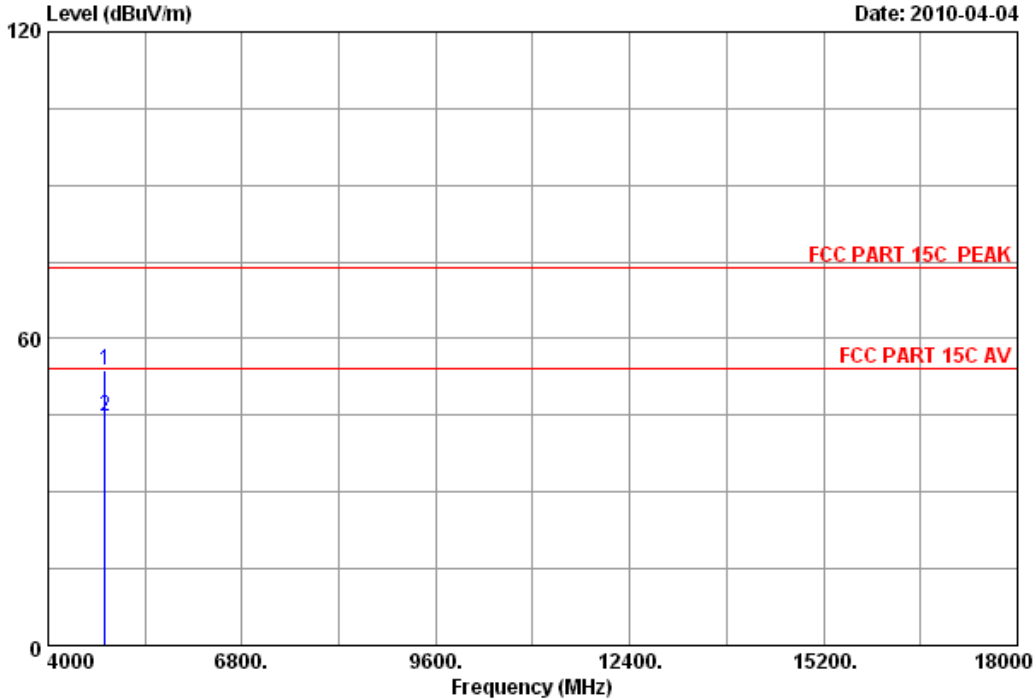


| | | | |
|-------------|------------------------------------|-----------|--------------|
| Site no. | : 3m Chamber | Data no. | : 55 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11nHT20 CH1 2412MHz | Tx Mode | |
| M/N | : | | |



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Data: 56 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH1 2412MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4824.000 | 34.32 | 12.38 | 35.25 | 42.34 | 53.79 | 74.00 | 20.21 | Peak |
| 2 | 4824.000 | 34.32 | 12.38 | 35.25 | 33.46 | 44.91 | 54.00 | 9.09 | Average |

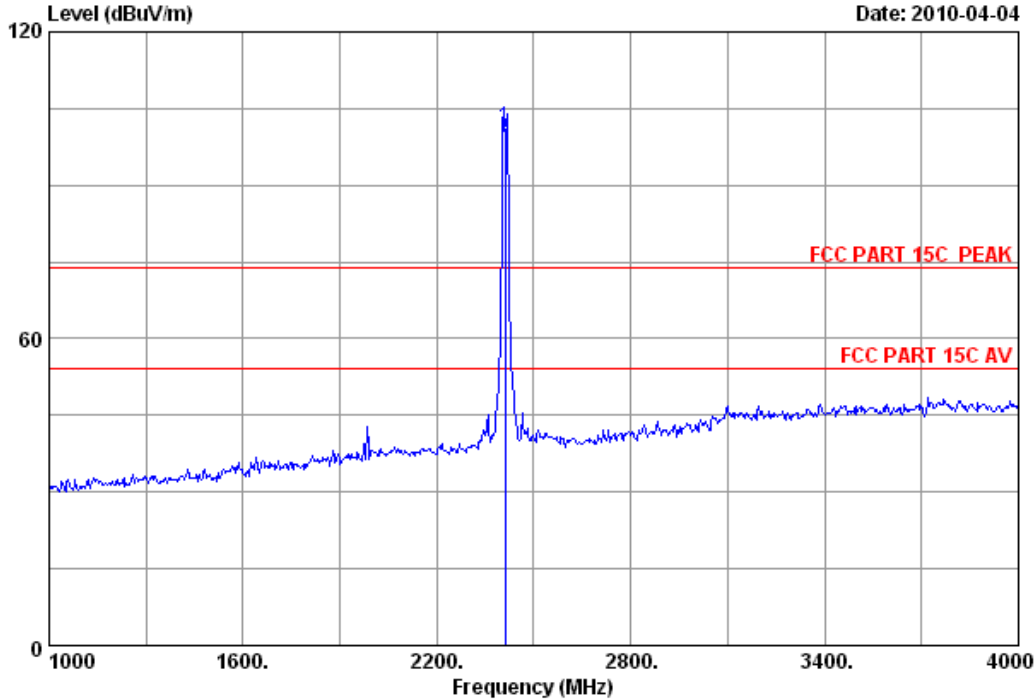
Remarks:

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



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Site no. : 3m Chamber Data no. : 57
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH1 2412MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 2412.000 | 29.45 | 8.72 | 35.95 | 99.14 | 101.36 | 74.00 | -27.36 | Peak |

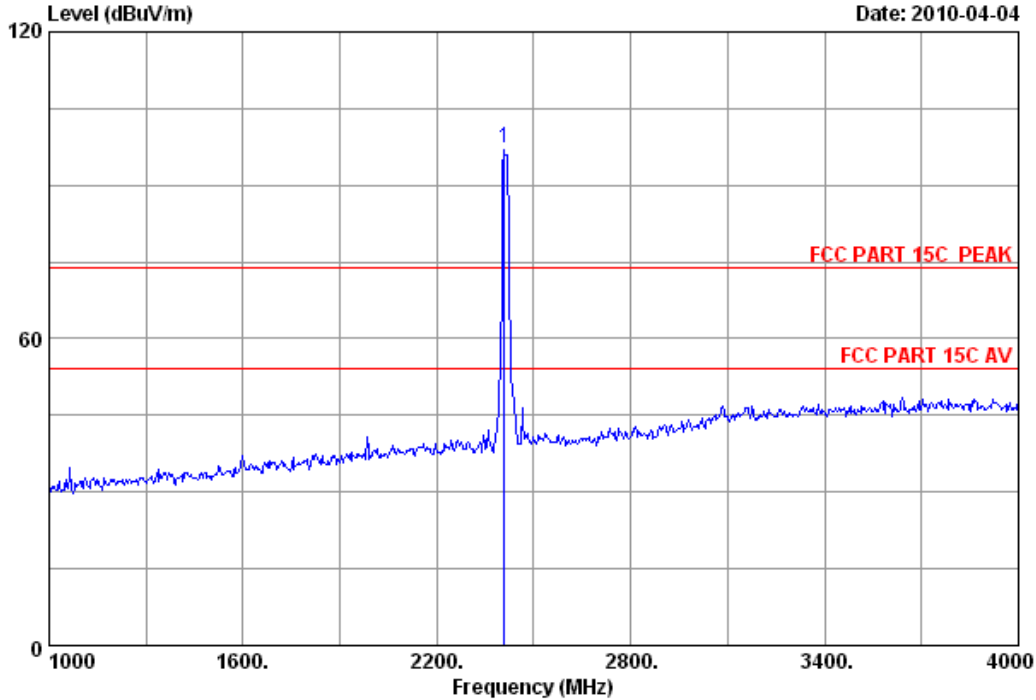
Remarks:

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



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Data: 58 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 58
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH1 2412MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 2410.000 | 29.45 | 8.72 | 35.95 | 95.11 | 97.33 | 74.00 | -23.33 | Peak |

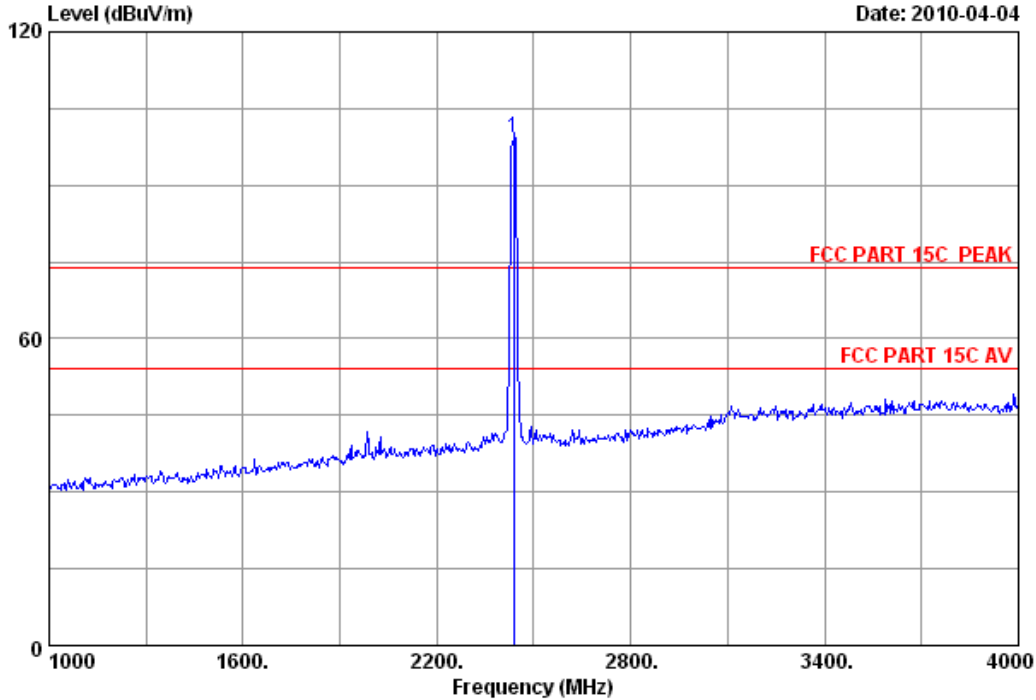
Remarks:

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



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Data: 63 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 63
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH6 2437MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 2437.000 | 29.47 | 8.77 | 36.06 | 97.13 | 99.31 | 74.00 | -25.31 | Peak |

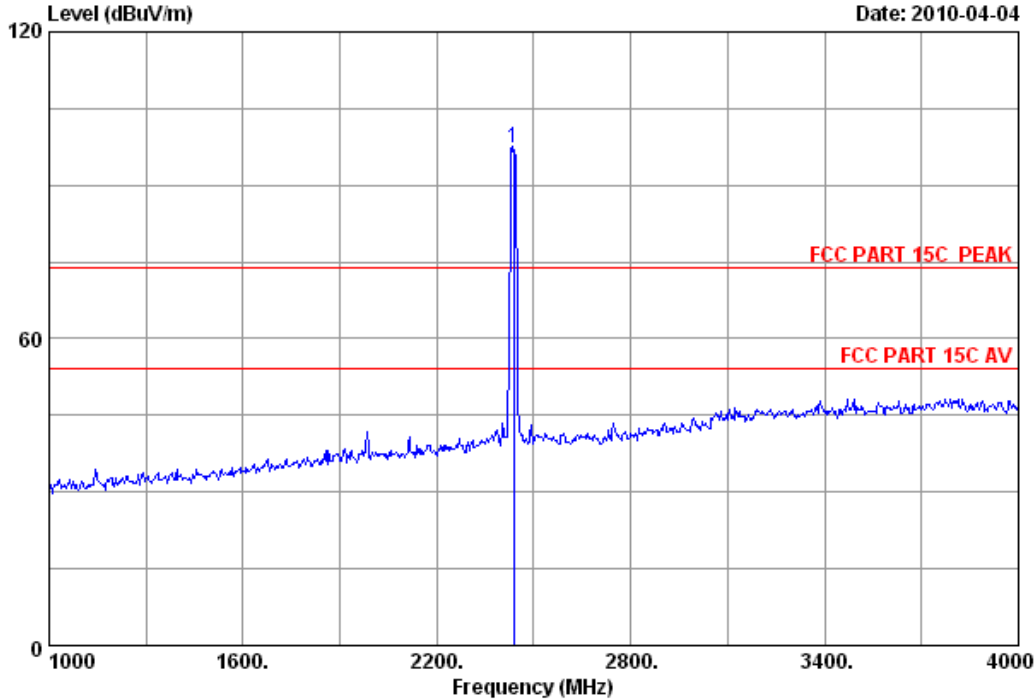
Remarks:

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



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Site no. : 3m Chamber Data no. : 64
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH6 2437MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 2437.000 | 29.47 | 8.77 | 36.06 | 95.02 | 97.20 | 74.00 | -23.20 | Peak |

Remarks:

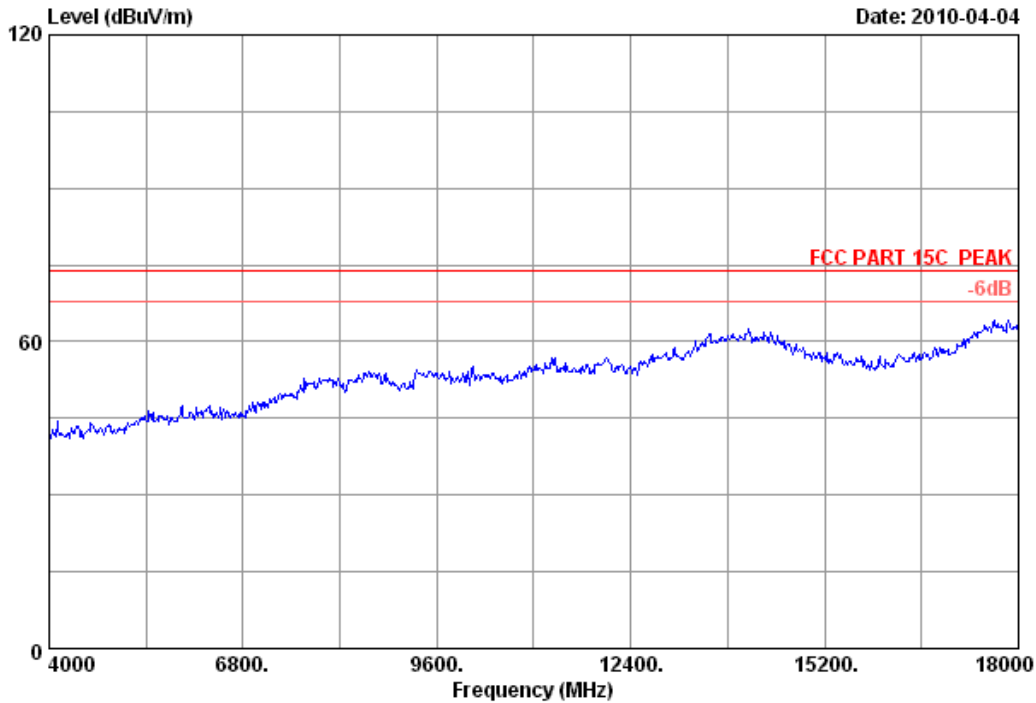
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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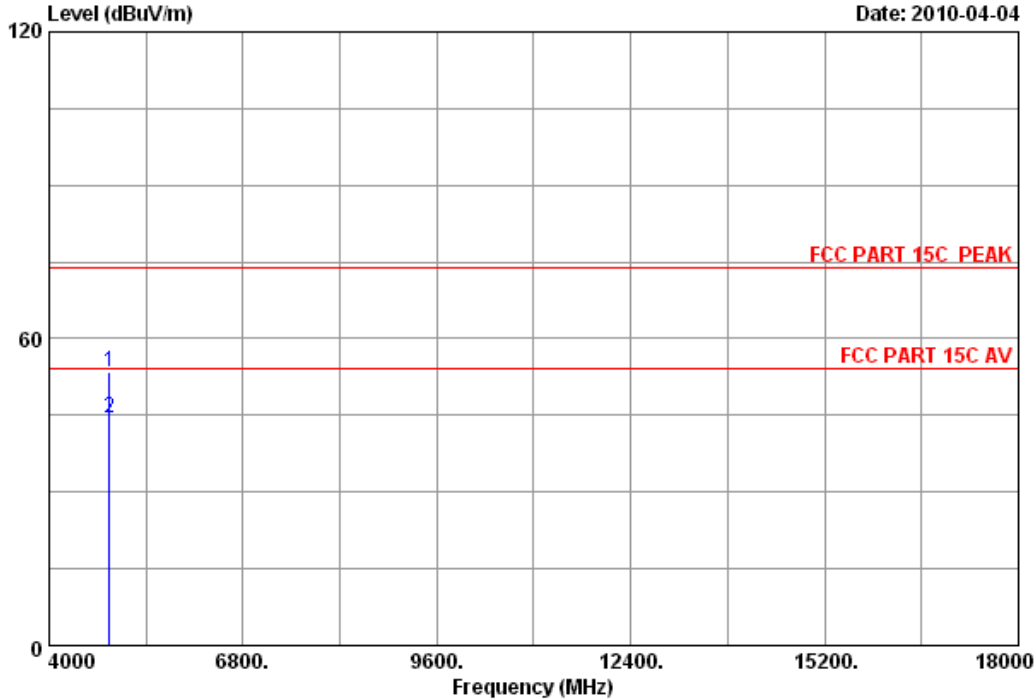


| | | | |
|-------------|------------------------------------|-----------|--------------|
| Site no. | : 3m Chamber | Data no. | : 65 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11nHT20 CH6 2437MHz | Tx Mode | |
| M/N | : | | |



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Site no. : 3m Chamber Data no. : 66
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH6 2437MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4874.000 | 34.41 | 12.44 | 35.36 | 42.14 | 53.63 | 74.00 | 20.37 | Peak |
| 2 | 4874.000 | 34.41 | 12.44 | 35.36 | 32.84 | 44.33 | 54.00 | 9.67 | Average |

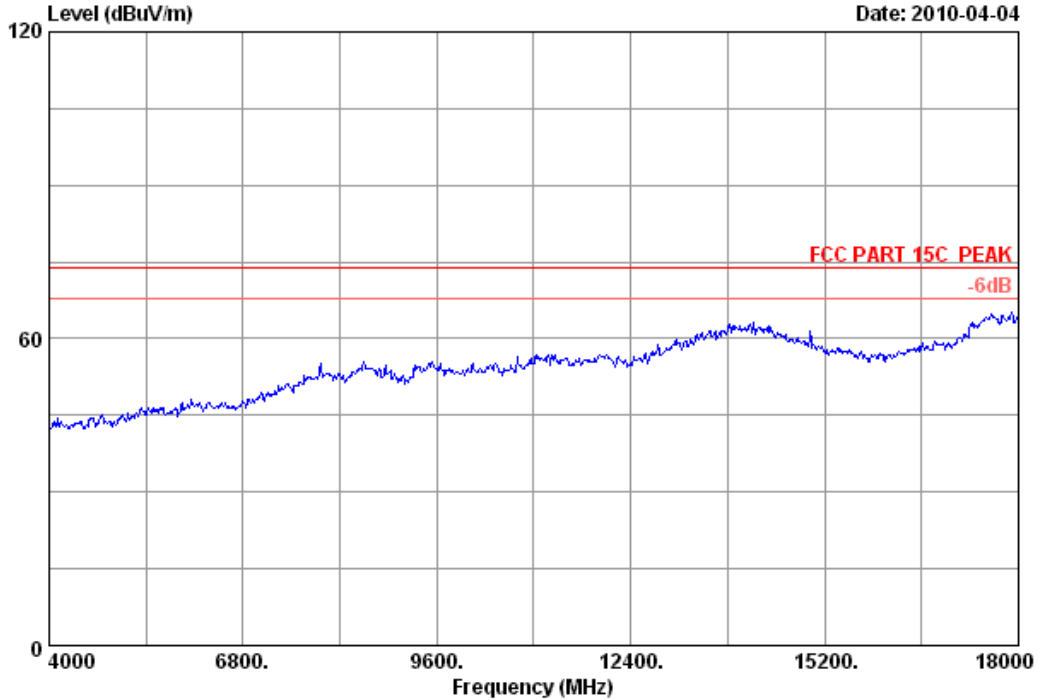
Remarks:

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



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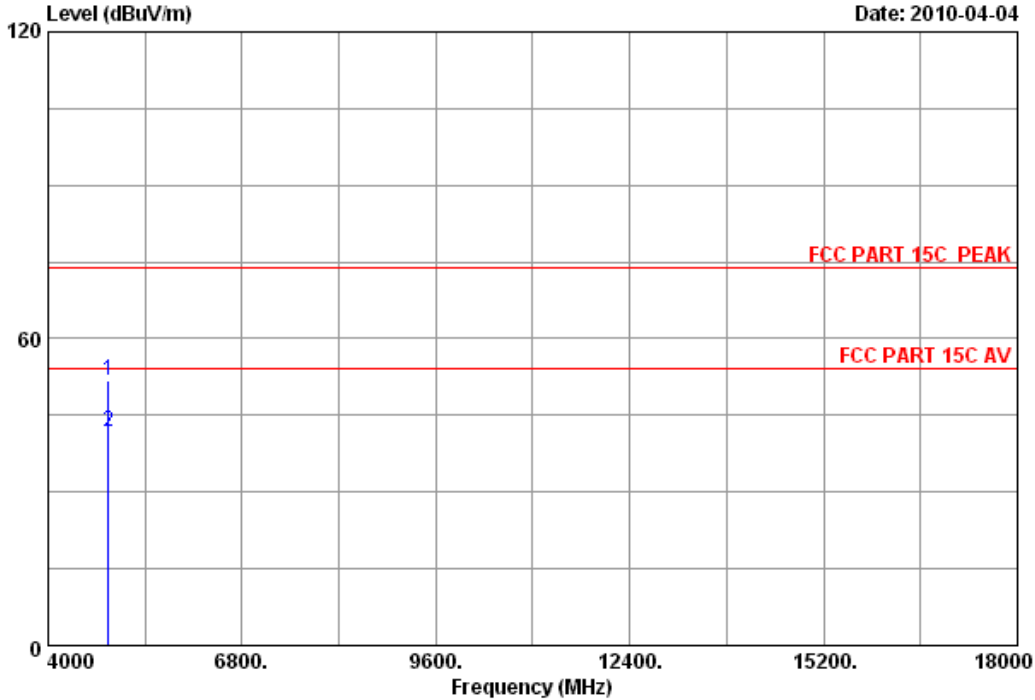


| | | | |
|-------------|------------------------------------|-----------|-------------|
| Site no. | : 3m Chamber | Data no. | : 67 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11nHT20 CH6 2437MHz | Tx Mode | |
| M/N | : | | |



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Site no. : 3m Chamber Data no. : 68
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH6 2437MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4874.000 | 34.41 | 12.44 | 35.36 | 40.26 | 51.75 | 74.00 | 22.25 | Peak |
| 2 | 4874.000 | 34.41 | 12.44 | 35.36 | 30.41 | 41.90 | 54.00 | 12.10 | Average |

Remarks:

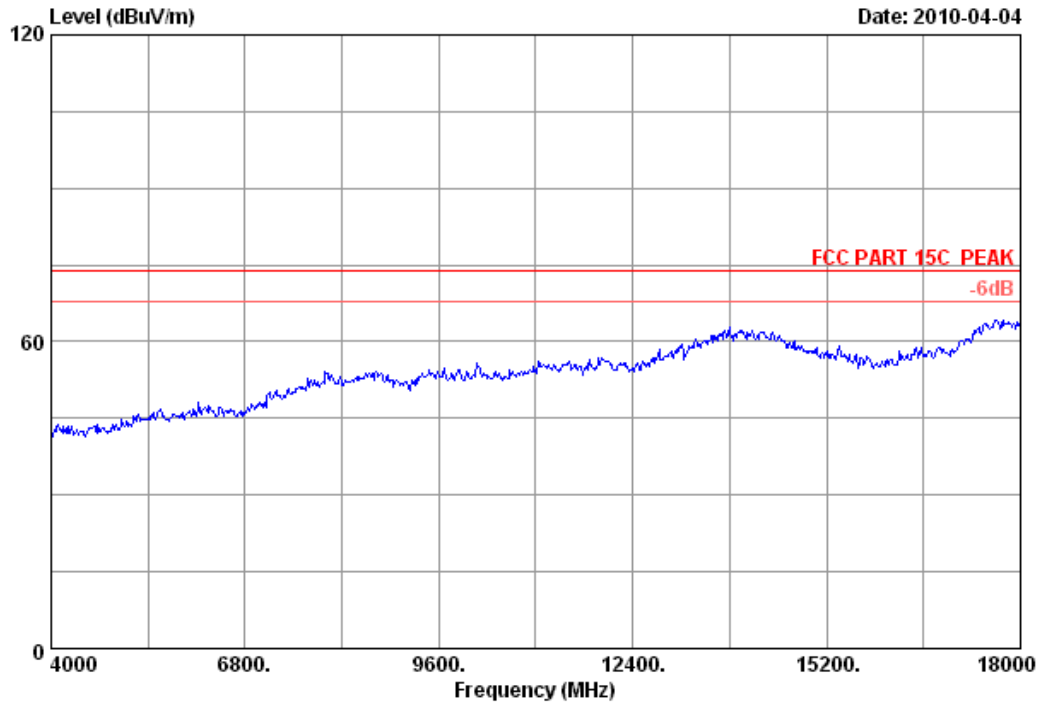
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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| | | | |
|-------------|------------------------------------|-----------|-------------|
| Site no. | : 3m Chamber | Data no. | : 69 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11nHT20 CH11 2462MHz | Tx Mode | |
| M/N | : | | |

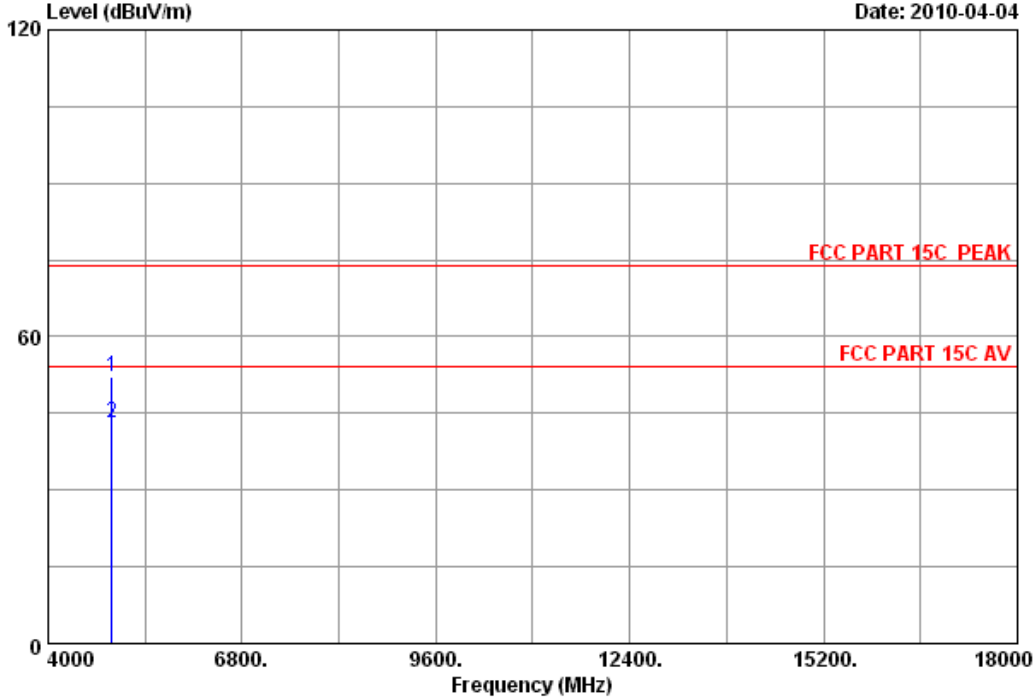


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Data: 70

File: E:\2010 report data\D\ACS10Q0577.EM6 (104)

Date: 2010-04-04



Site no. : 3m Chamber Data no. : 70
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH11 2462MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4924.000 | 34.49 | 12.50 | 35.34 | 40.56 | 52.21 | 74.00 | 21.79 | Peak |
| 2 | 4924.000 | 34.49 | 12.50 | 35.34 | 31.42 | 43.07 | 54.00 | 10.93 | Average |

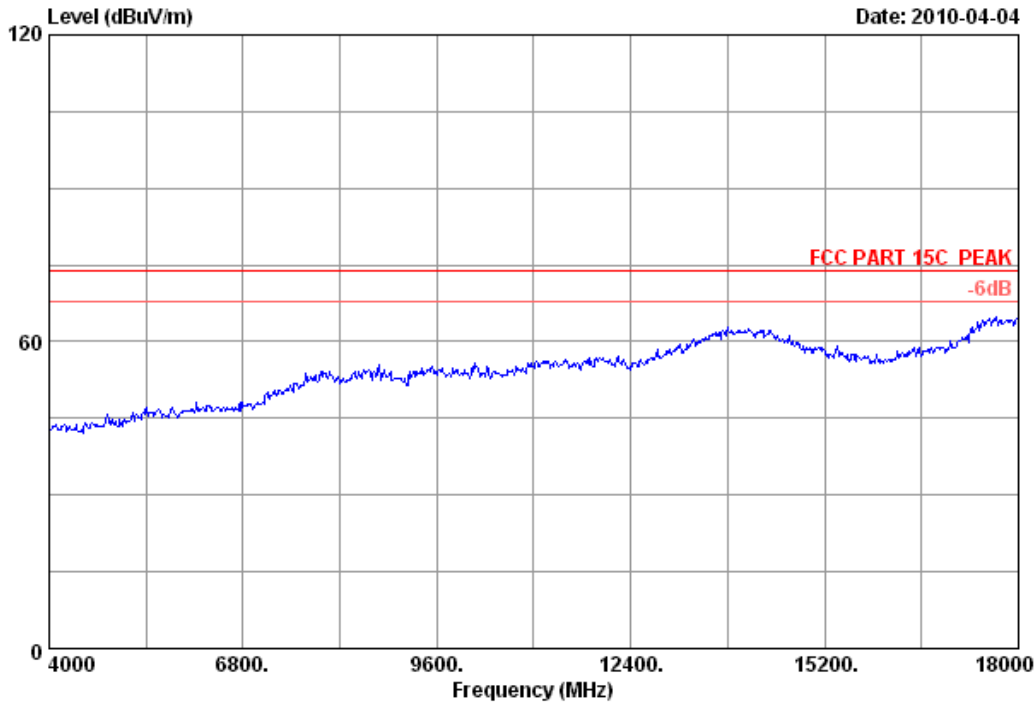
Remarks:

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



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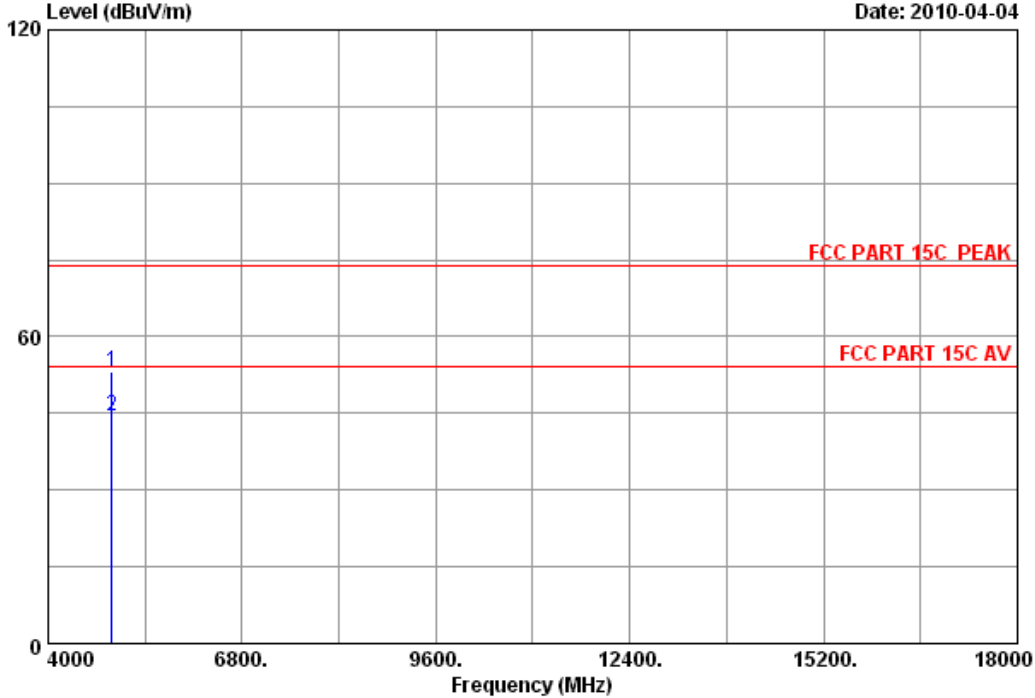


| | | | |
|-------------|------------------------------------|-----------|--------------|
| Site no. | : 3m Chamber | Data no. | : 71 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11nHT20 CH11 2462MHz | Tx Mode | |
| M/N | : | | |



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Postcode:518057

Data: 72 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 72
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH11 2462MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4924.000 | 34.49 | 12.50 | 35.34 | 41.55 | 53.20 | 74.00 | 20.80 | Peak |
| 2 | 4924.000 | 34.49 | 12.50 | 35.34 | 32.73 | 44.38 | 54.00 | 9.62 | Average |

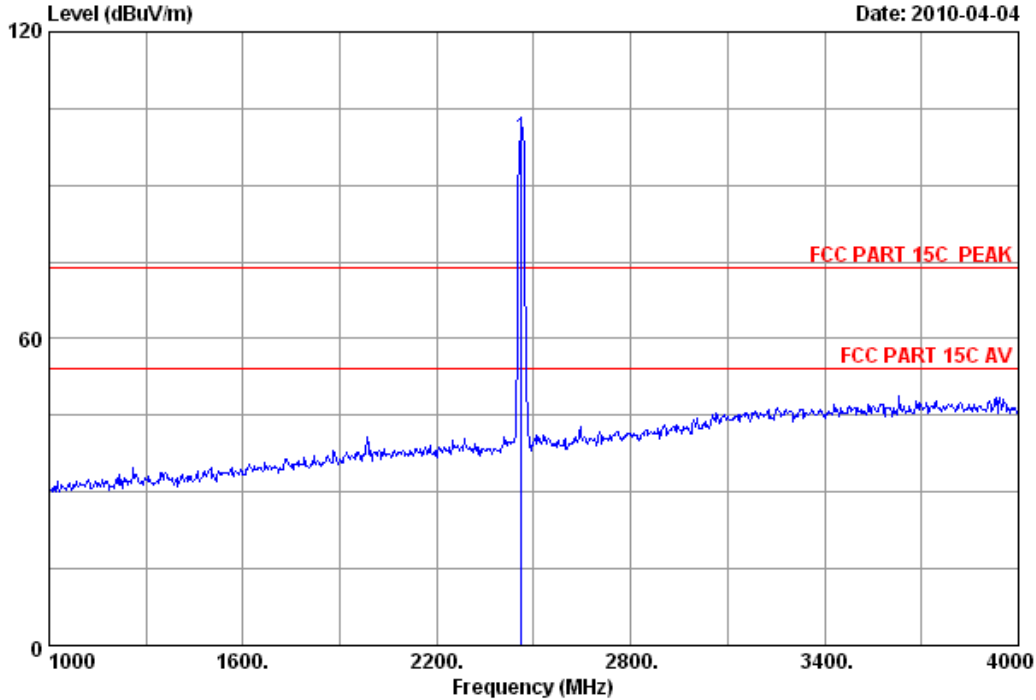
Remarks:

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



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Data: 73 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 73
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH11 2462MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 2462.000 | 29.48 | 8.82 | 36.02 | 97.13 | 99.41 | 74.00 | -25.41 | Peak |

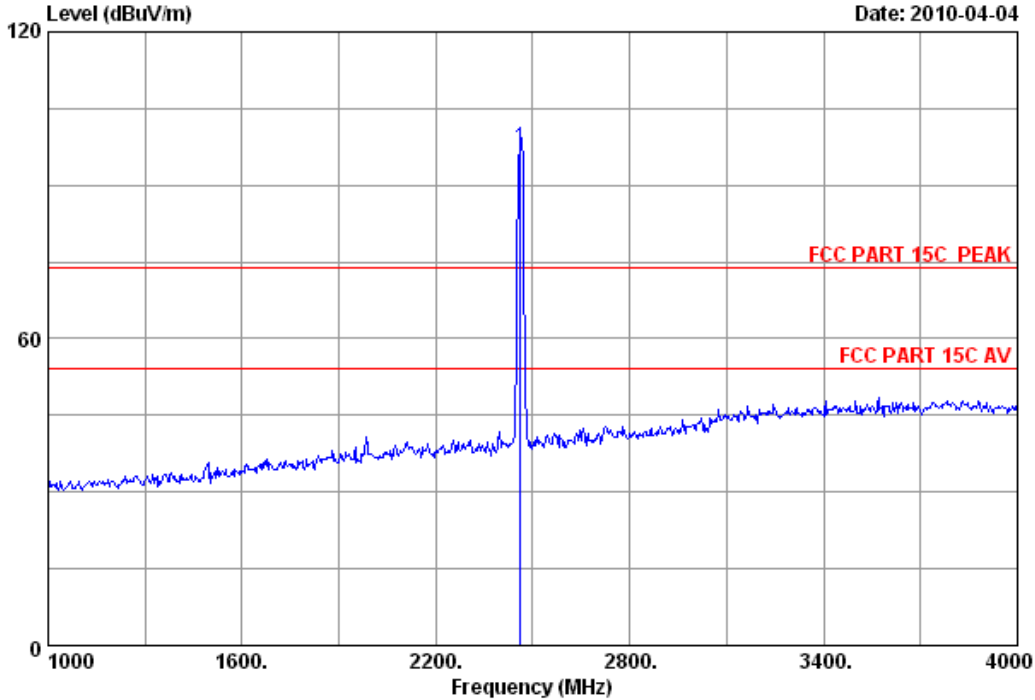
Remarks:

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



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Data: 74 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 74
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH11 2462MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 2462.000 | 29.48 | 8.82 | 36.02 | 94.96 | 97.24 | 74.00 | -23.24 | Peak |

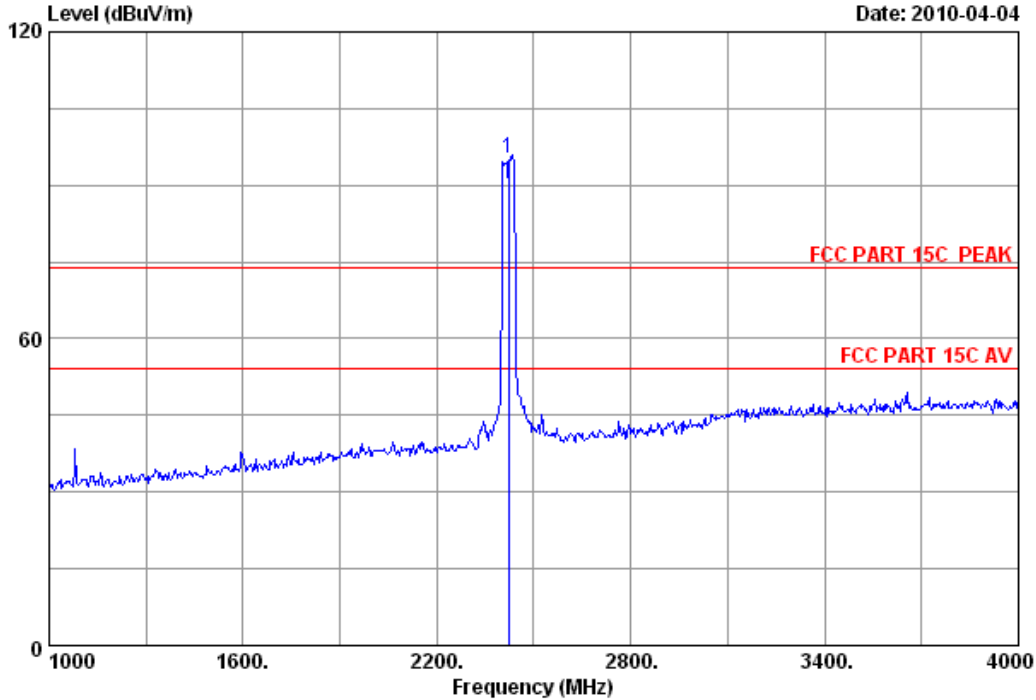
Remarks:

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



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Data: 83 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 83
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH1 2422MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 2422.000 | 29.46 | 8.77 | 36.01 | 93.05 | 95.27 | 74.00 | -21.27 | Peak |

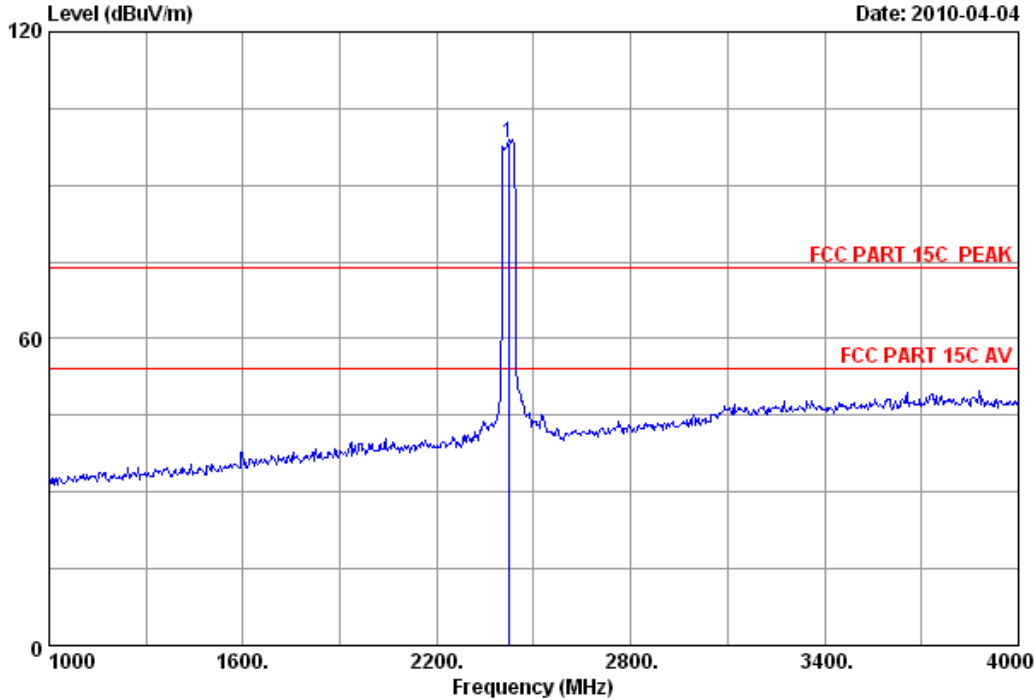
Remarks:

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



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Data: 84 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 84
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH1 2422MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 2422.000 | 29.46 | 8.77 | 36.01 | 96.03 | 98.25 | 74.00 | -24.25 | Peak |

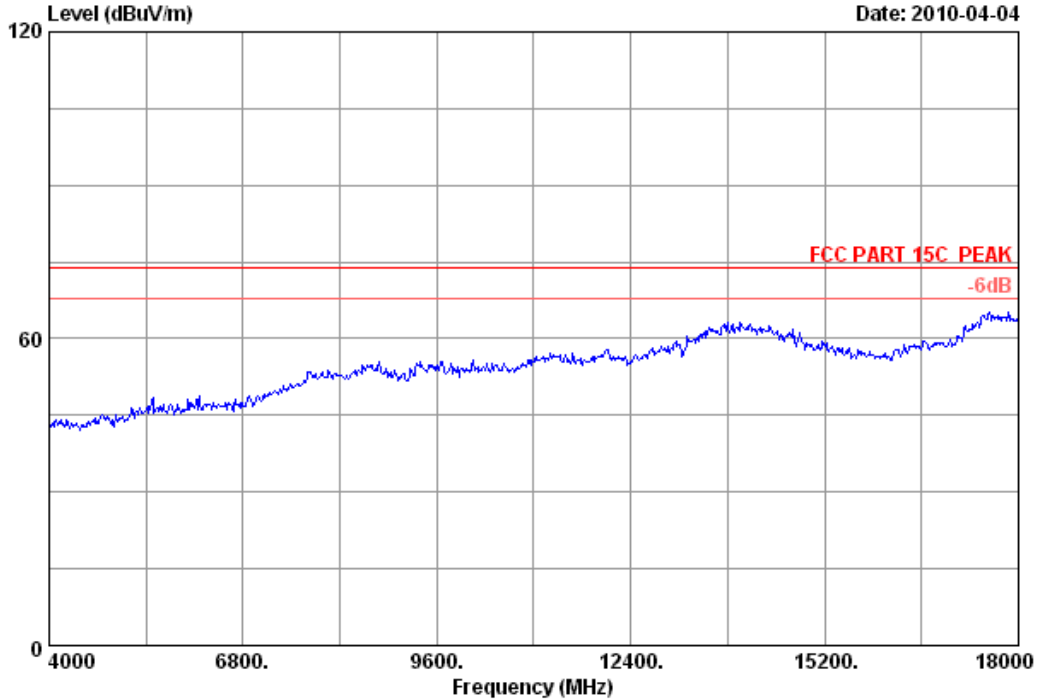
Remarks:

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



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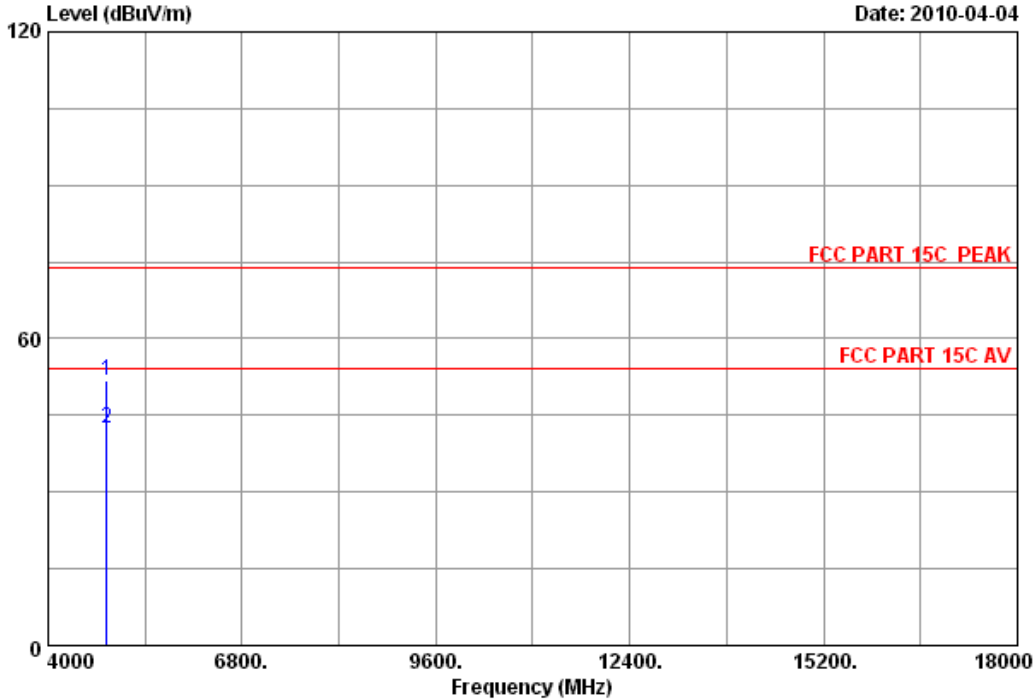


| | | | |
|-------------|------------------------------------|-----------|-------------|
| Site no. | : 3m Chamber | Data no. | : 85 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11nHT40 CH1 2422MHz Tx Mode | | |
| M/N | : | | |



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Site no. : 3m Chamber Data no. : 86
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH1 2422MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4844.000 | 34.35 | 12.38 | 35.25 | 40.34 | 51.82 | 74.00 | 22.18 | Peak |
| 2 | 4844.000 | 34.35 | 12.38 | 35.25 | 30.81 | 42.29 | 54.00 | 11.71 | Average |

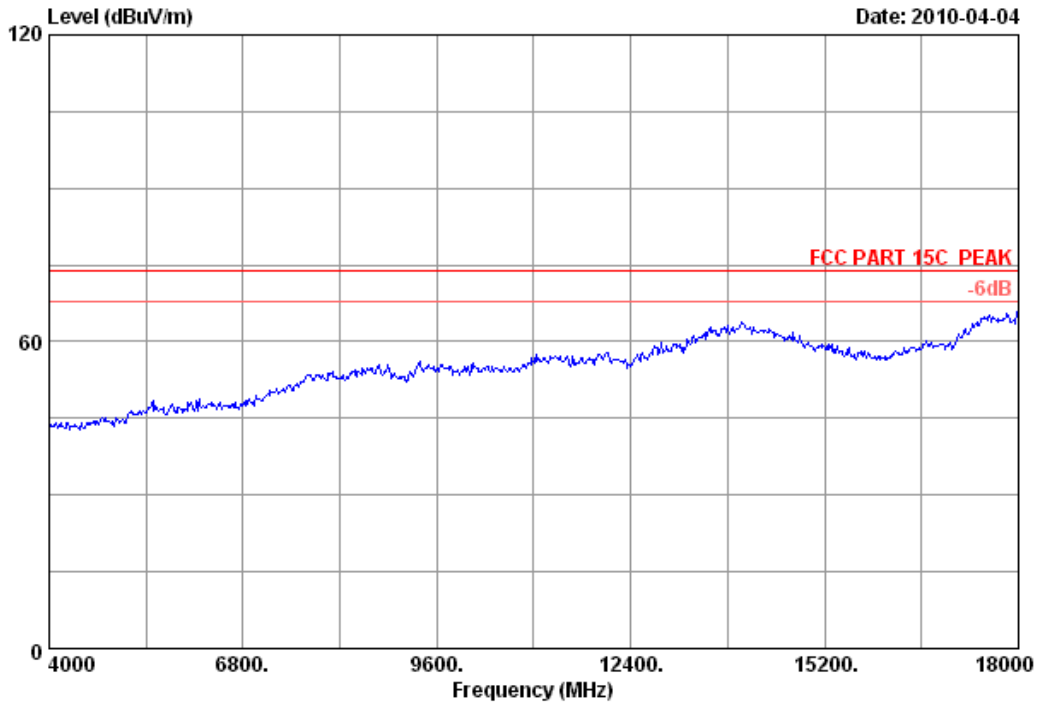
Remarks:

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



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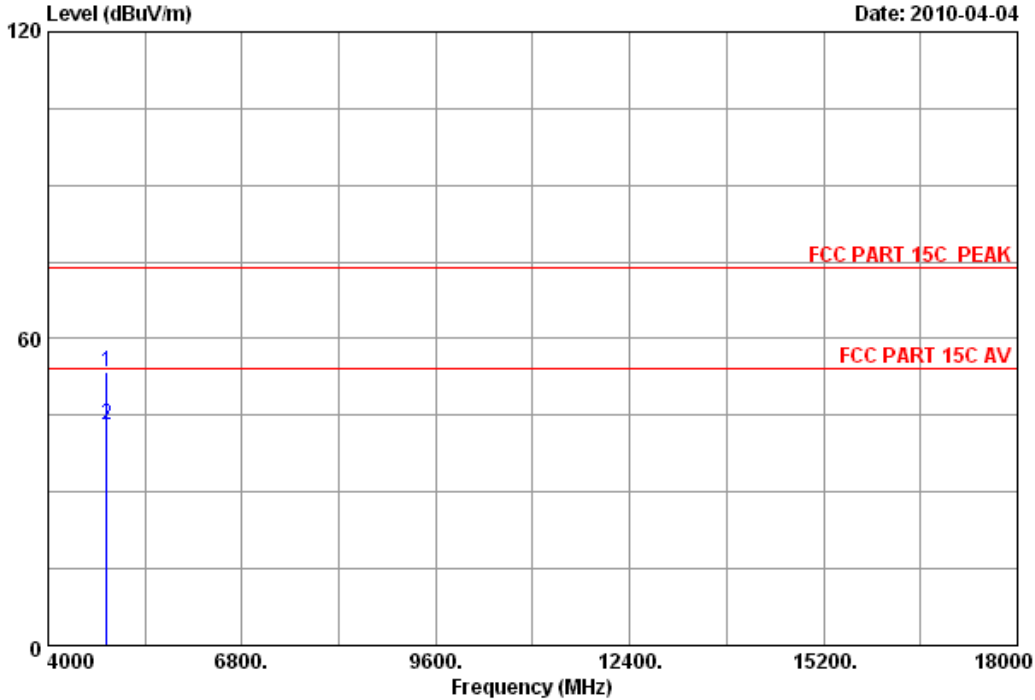


| | | | |
|-------------|------------------------------------|-----------|--------------|
| Site no. | : 3m Chamber | Data no. | : 87 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11nHT40 CH1 2422MHz | Tx Mode | |
| M/N | : | | |



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Site no. : 3m Chamber Data no. : 88
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH1 2422MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4844.000 | 34.35 | 12.38 | 35.25 | 42.02 | 53.50 | 74.00 | 20.50 | Peak |
| 2 | 4844.000 | 34.35 | 12.38 | 35.25 | 31.52 | 43.00 | 54.00 | 11.00 | Average |

Remarks:

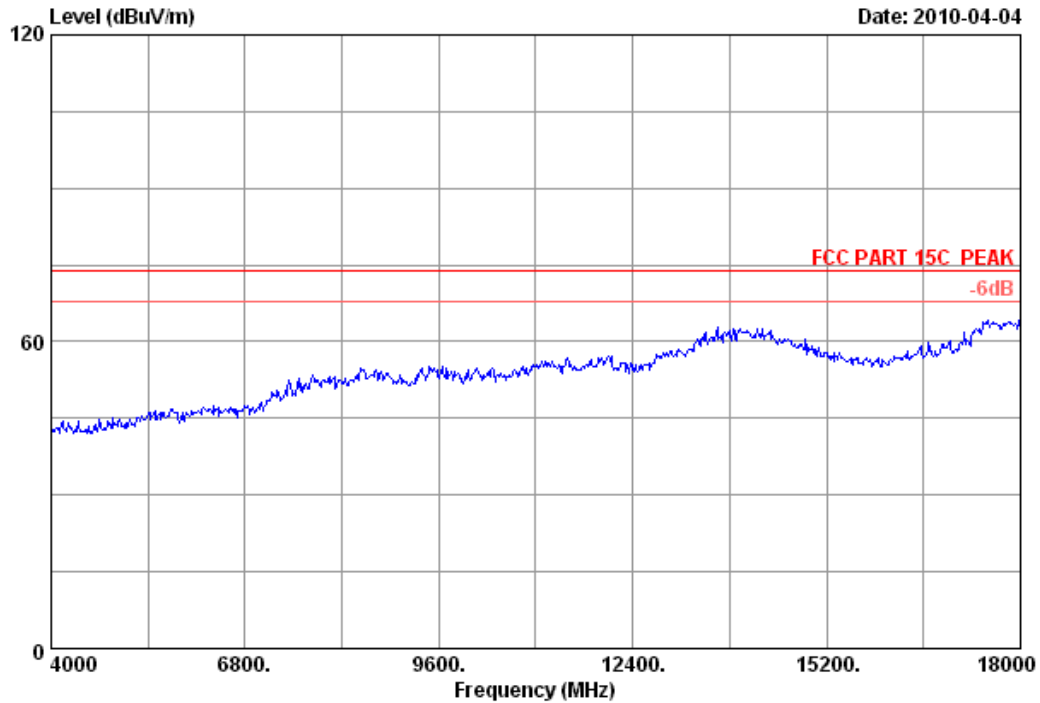
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 89

File: E:\2010 report data\D\ACS10Q0577.EM6 (104)

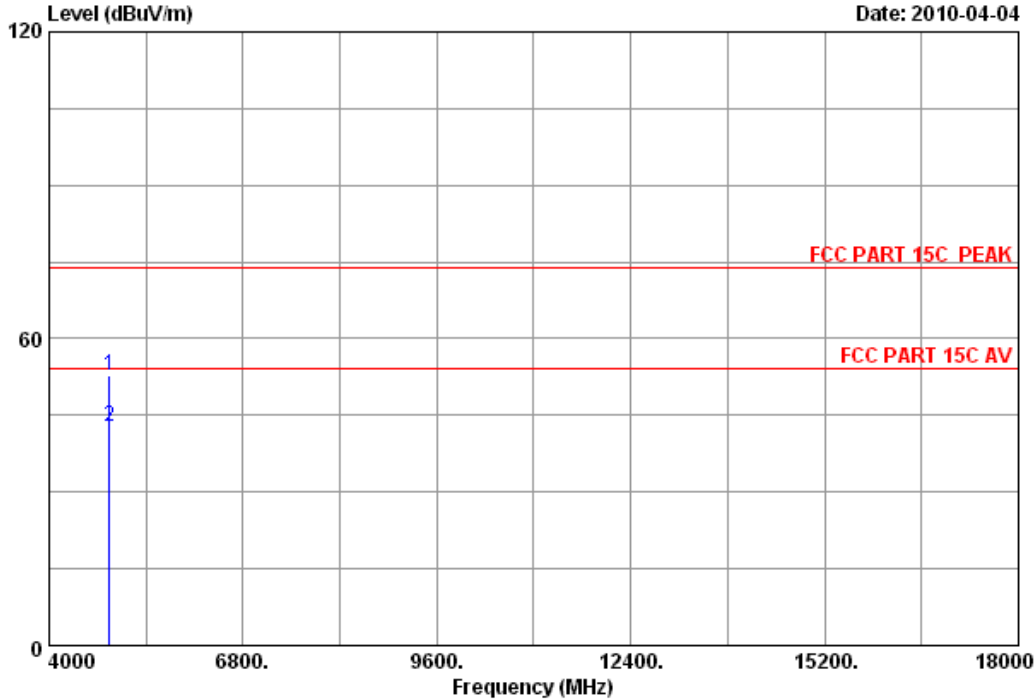


| | | | |
|-------------|------------------------------------|-----------|--------------|
| Site no. | : 3m Chamber | Data no. | : 89 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11nHT40 CH4 2437MHz | Tx Mode | |
| M/N | : | | |



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Data: 90 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 90
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH4 2437MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4874.000 | 34.41 | 12.44 | 35.36 | 41.25 | 52.74 | 74.00 | 21.26 | Peak |
| 2 | 4874.000 | 34.41 | 12.44 | 35.36 | 31.37 | 42.86 | 54.00 | 11.14 | Average |

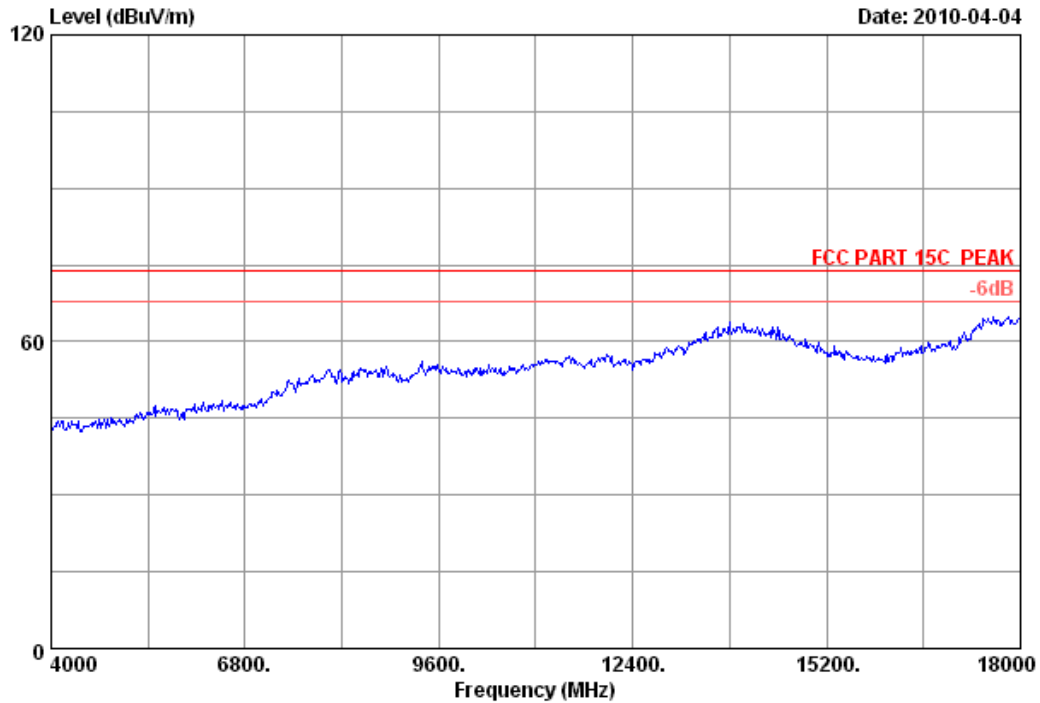
Remarks:

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



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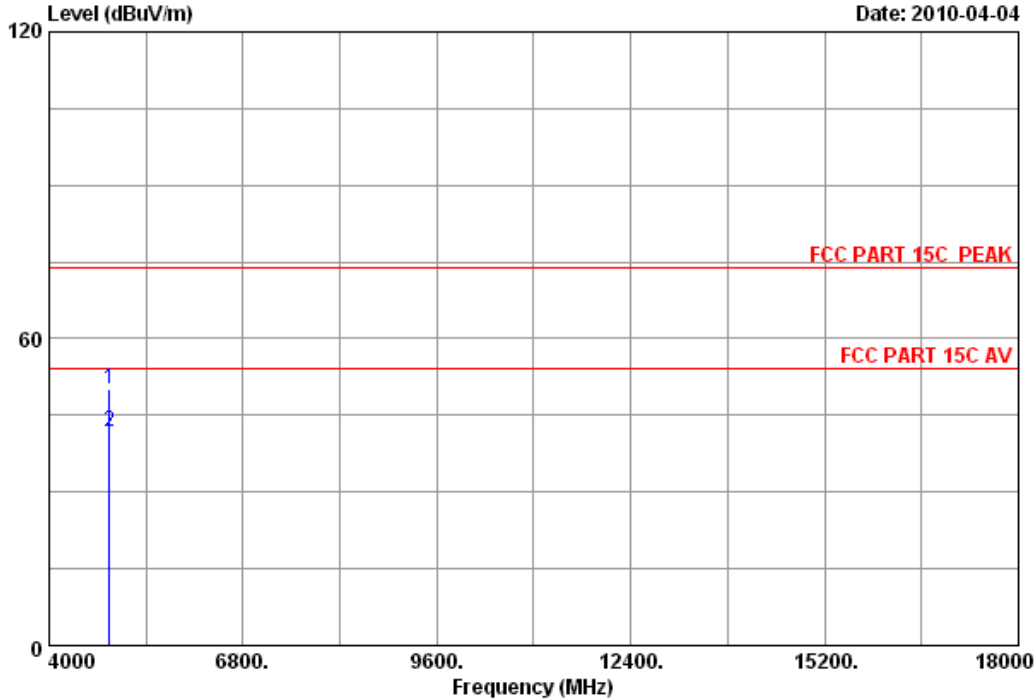


| | | | |
|-------------|------------------------------------|-----------|-------------|
| Site no. | : 3m Chamber | Data no. | : 91 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11nHT40 CH4 2437MHz | Tx Mode | |
| M/N | : | | |



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Data: 92 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 92
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH4 2437MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4874.000 | 34.41 | 12.44 | 35.36 | 38.68 | 50.17 | 74.00 | 23.83 | Peak |
| 2 | 4874.000 | 34.41 | 12.44 | 35.36 | 30.14 | 41.63 | 54.00 | 12.37 | Average |

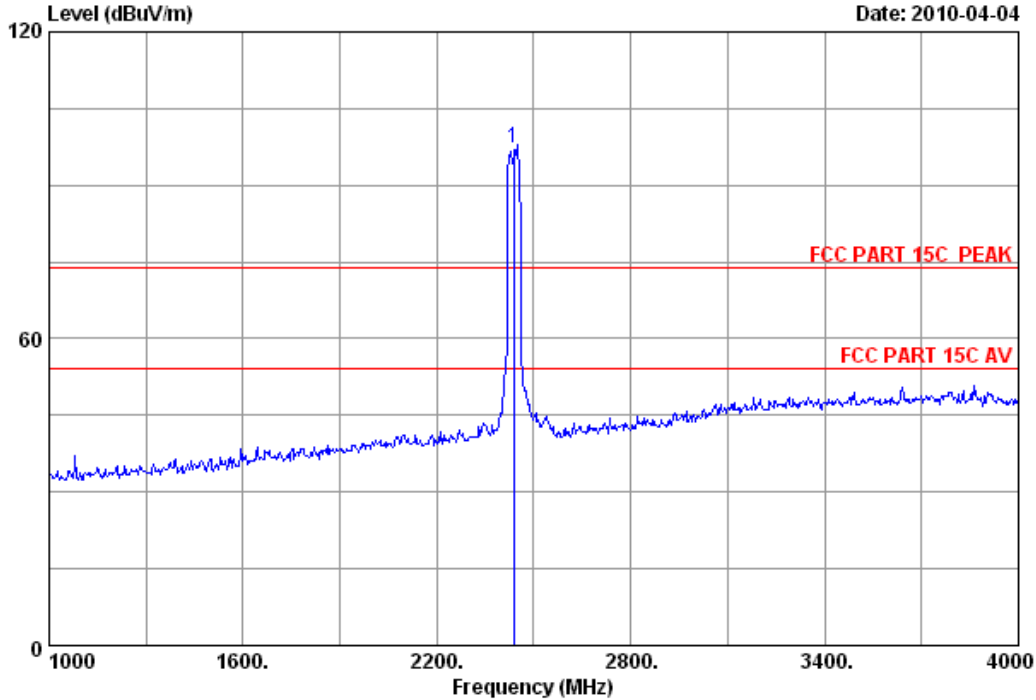
Remarks:

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



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Data: 93 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 93
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH4 2437MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 2437.000 | 29.47 | 8.77 | 36.06 | 95.09 | 97.27 | 74.00 | -23.27 | Peak |

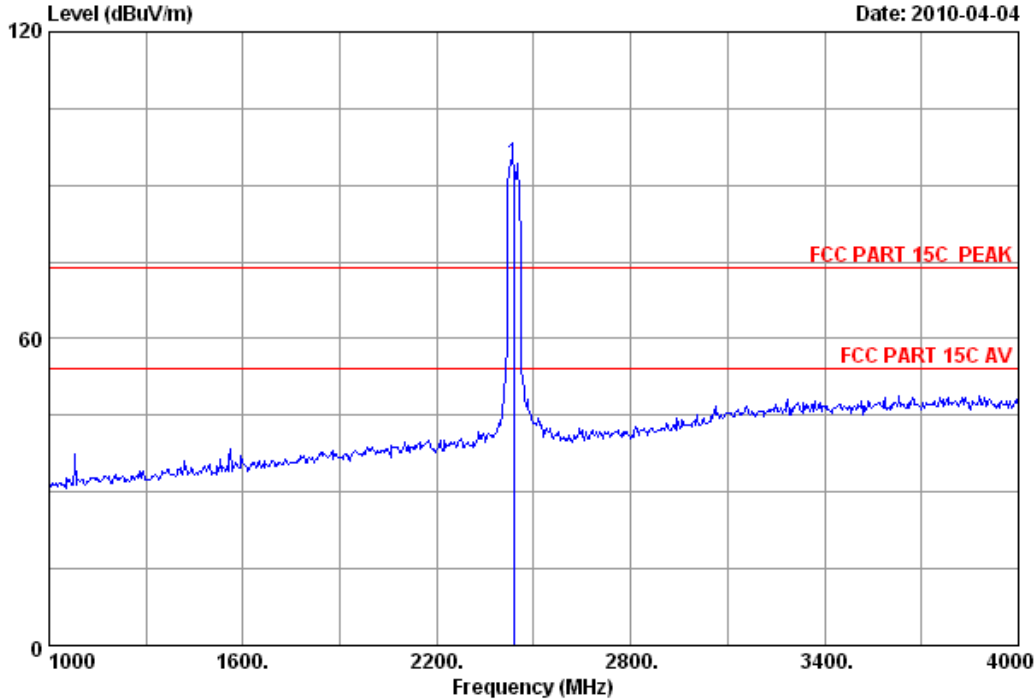
Remarks:

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



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Site no. : 3m Chamber Data no. : 94
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH4 2437MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 2437.000 | 29.47 | 8.77 | 36.06 | 92.18 | 94.36 | 74.00 | -20.36 | Peak |

Remarks:

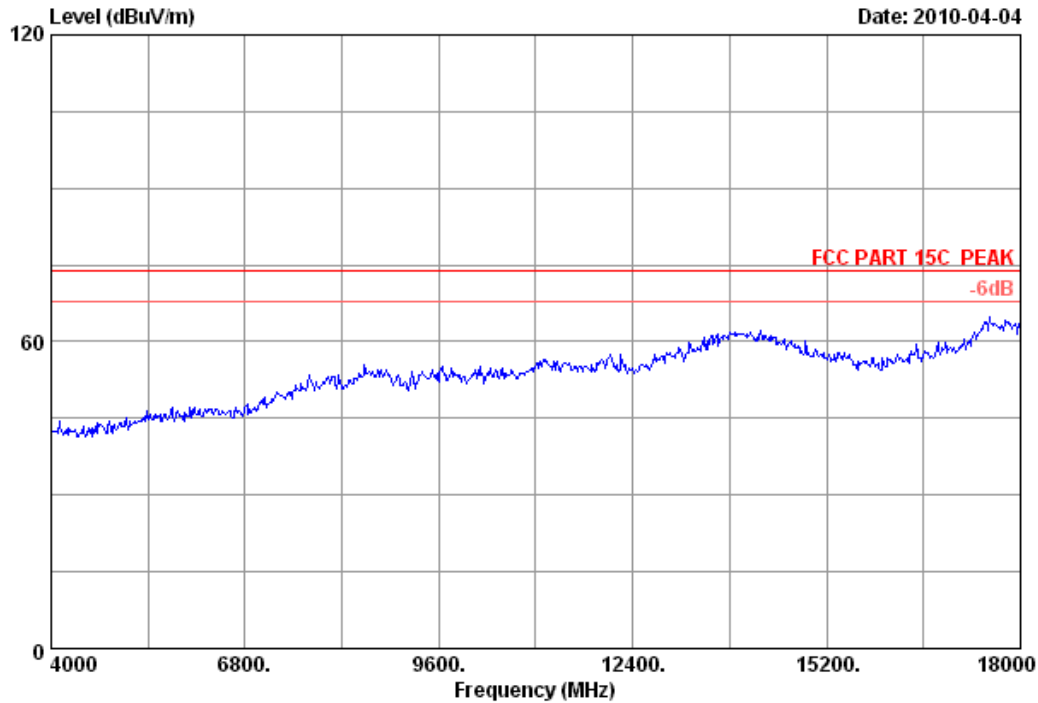
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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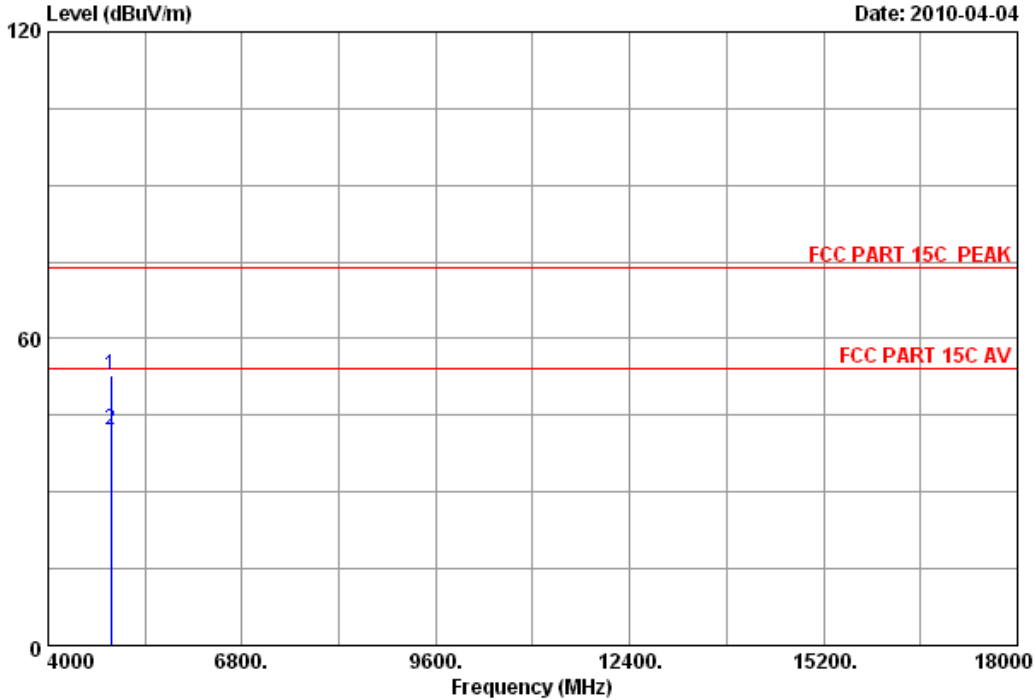


| | | | |
|-------------|------------------------------------|-----------|-------------|
| Site no. | : 3m Chamber | Data no. | : 95 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11nHT40 CH7 2452MHz | Tx Mode | |
| M/N | : | | |



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Site no. : 3m Chamber Data no. : 96
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH7 2452MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4904.000 | 34.46 | 12.47 | 35.27 | 41.04 | 52.70 | 74.00 | 21.30 | Peak |
| 2 | 4904.000 | 34.46 | 12.47 | 35.27 | 30.43 | 42.09 | 54.00 | 11.91 | Average |

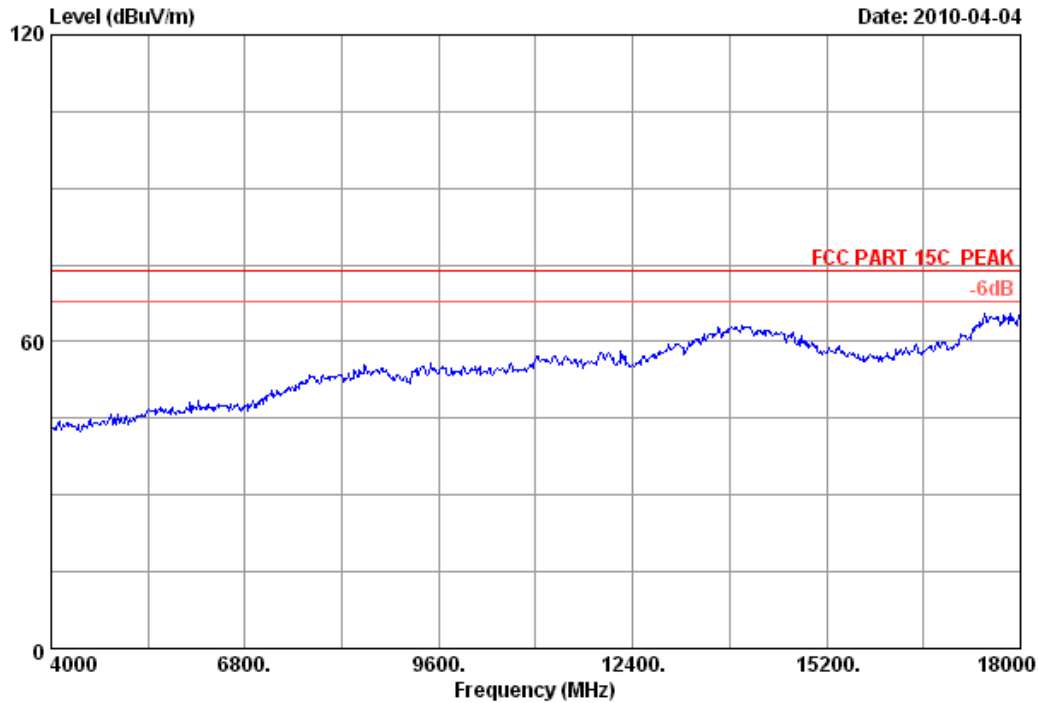
Remarks:

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



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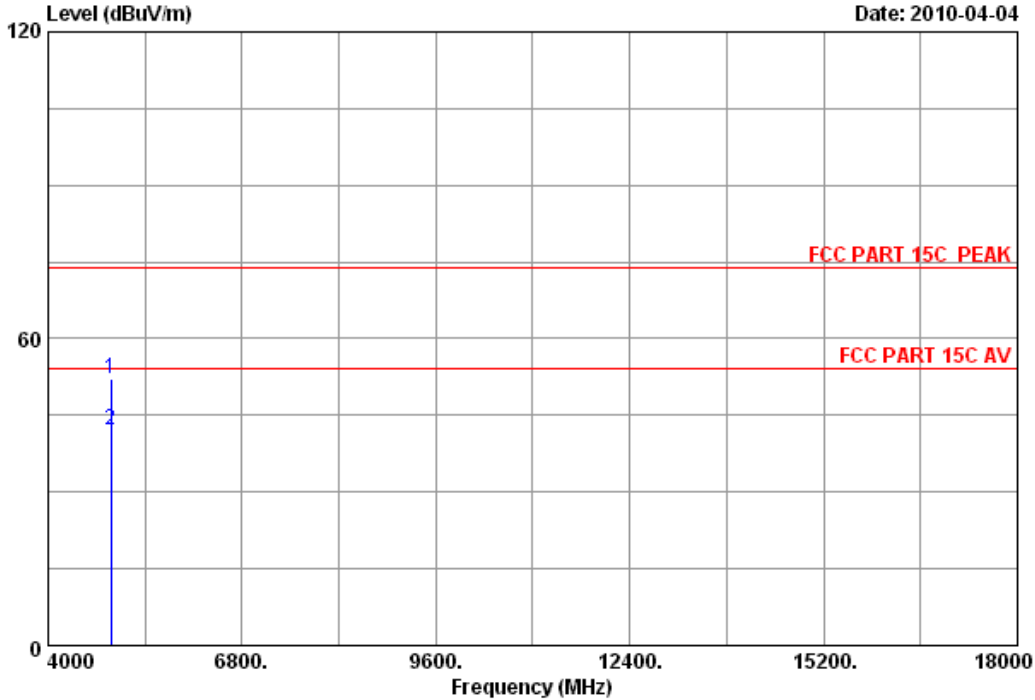


| | | | |
|-------------|------------------------------------|-----------|--------------|
| Site no. | : 3m Chamber | Data no. | : 97 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Wireless USB Adapter | M/N: | DWA-140 |
| Power | : DC 5V From PC input AC 120V/60Hz | | |
| Test mode | : 11nHT40 CH7 2452MHz | Tx Mode | |
| M/N | : | | |



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Postcode:518057

Data: 98 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 98
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH7 2452MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4904.000 | 34.46 | 12.47 | 35.27 | 40.47 | 52.13 | 74.00 | 21.87 | Peak |
| 2 | 4904.000 | 34.46 | 12.47 | 35.27 | 30.49 | 42.15 | 54.00 | 11.85 | Average |

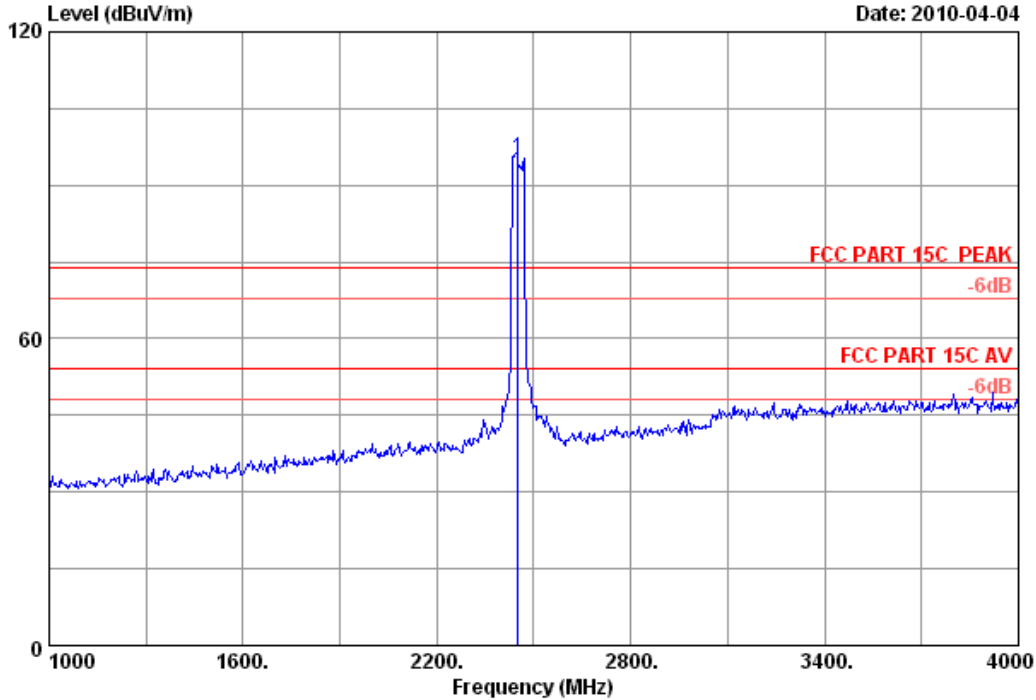
Remarks:

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



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Data: 99 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 99
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH7 2452MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 2452.000 | 29.47 | 8.82 | 36.06 | 92.96 | 95.19 | 74.00 | -21.19 | Peak |

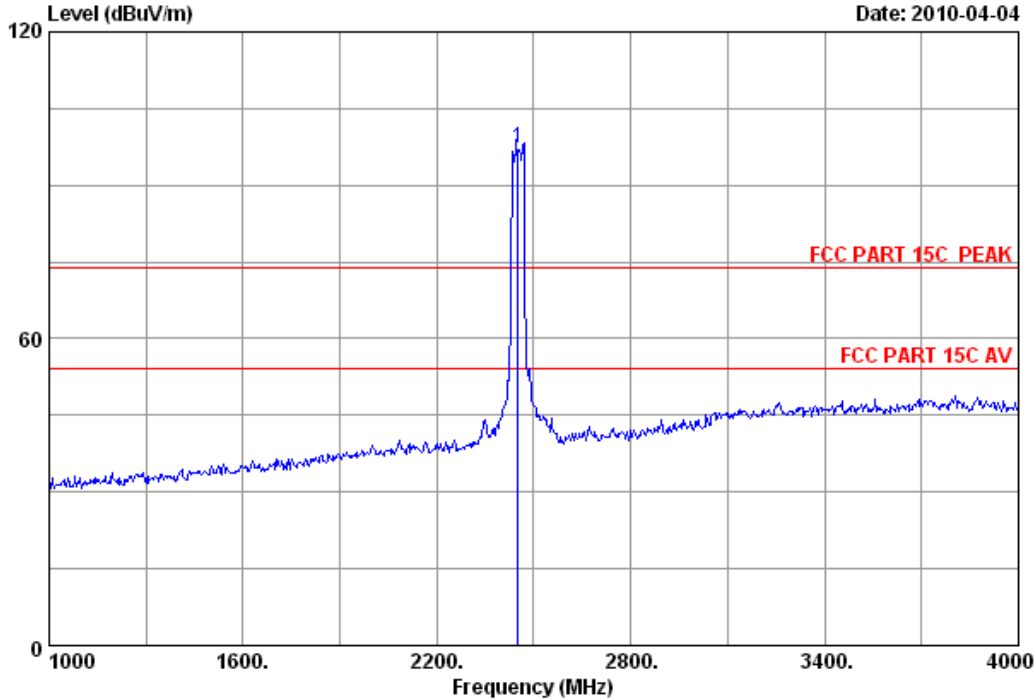
Remarks:

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



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Data: 100 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 100
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH7 2452MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission | | | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 2452.000 | 29.47 | 8.82 | 36.06 | 95.10 | 97.33 | 74.00 | -23.33 | Peak |

Remarks:

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

5. CONDUCTED SPURIOUS EMISSIONS

5.1. Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------|--------------|-----------------|------------|------------|---------------|
| 1. | Spectrum Analyzer | Agilent | E4446A | US44300459 | May.08, 09 | 1 Year |
| 2. | Attenuator | Agilent | 8491B | MY39262165 | May.08, 09 | 1 Year |
| 3. | RF Cable | Hubersuhner | SUCOFLEX 102 | 28618/2 | May.08, 09 | 1Year |

5.2. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

5.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions detected.

5.4. Test result

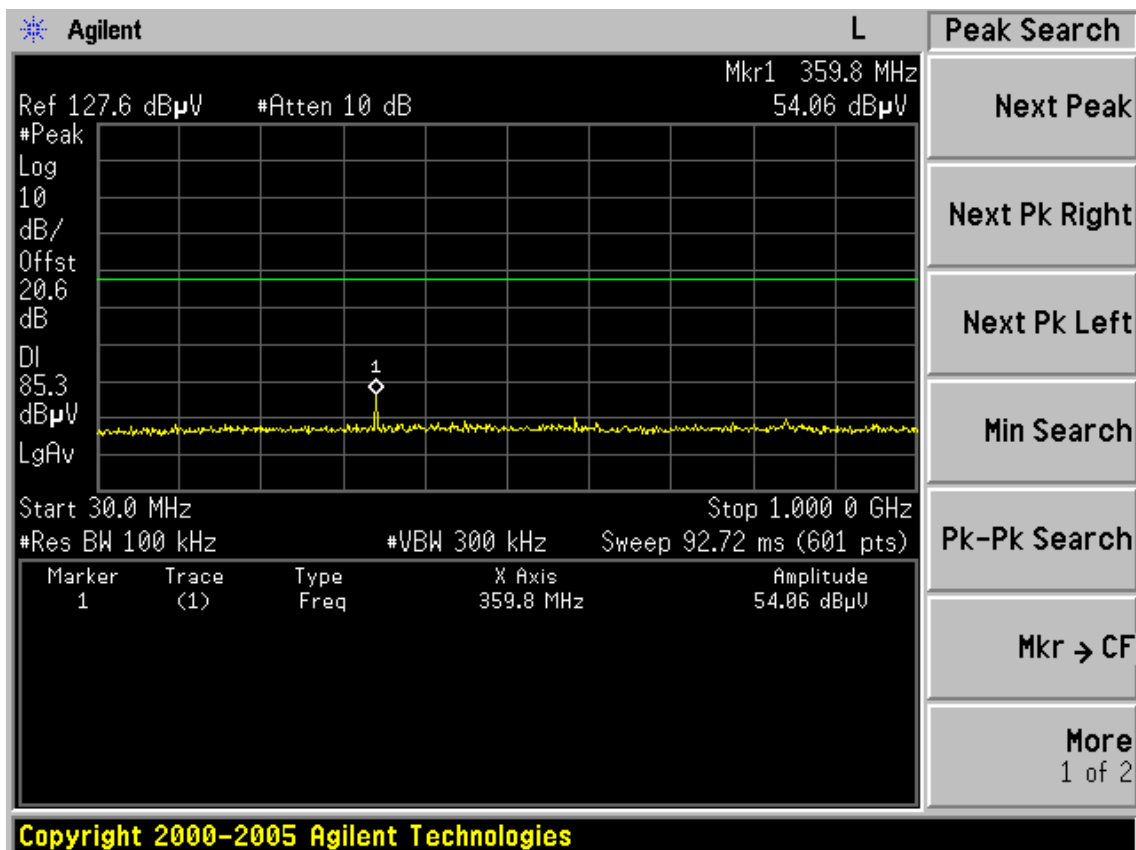
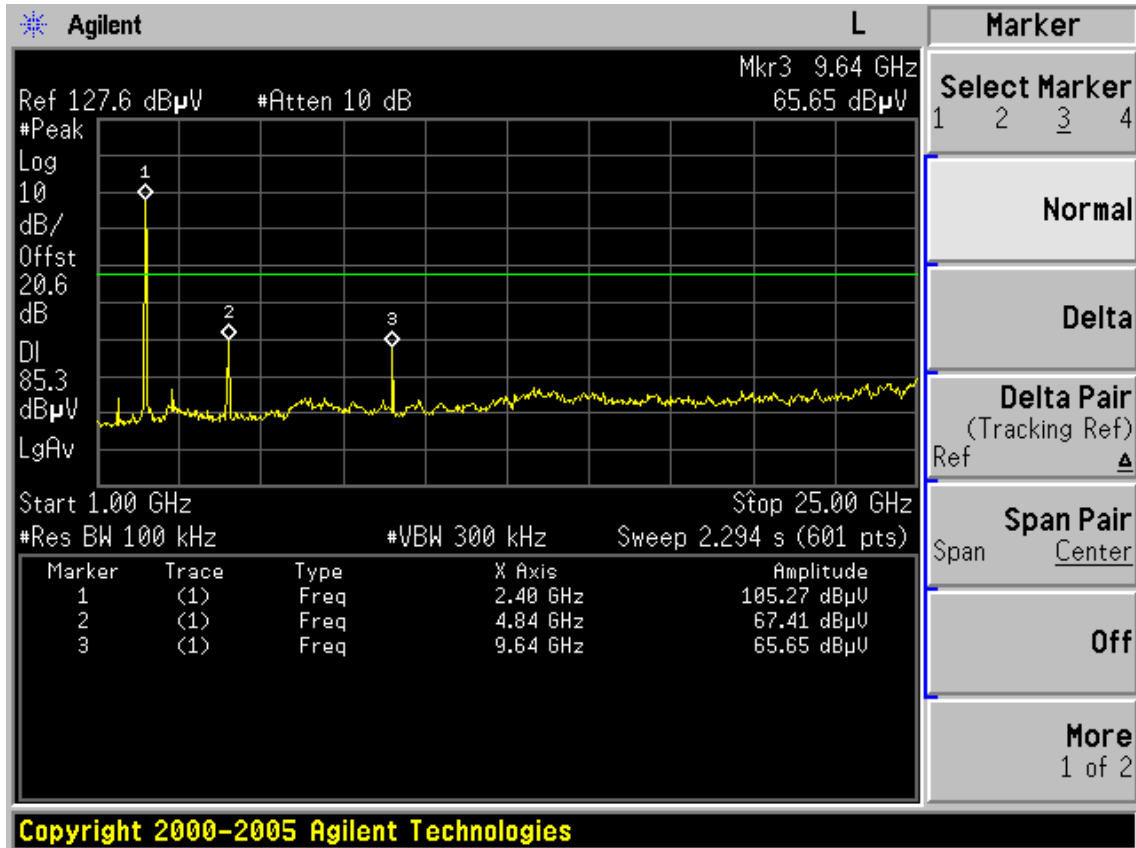
PASS (The testing data was attached in the next pages.)

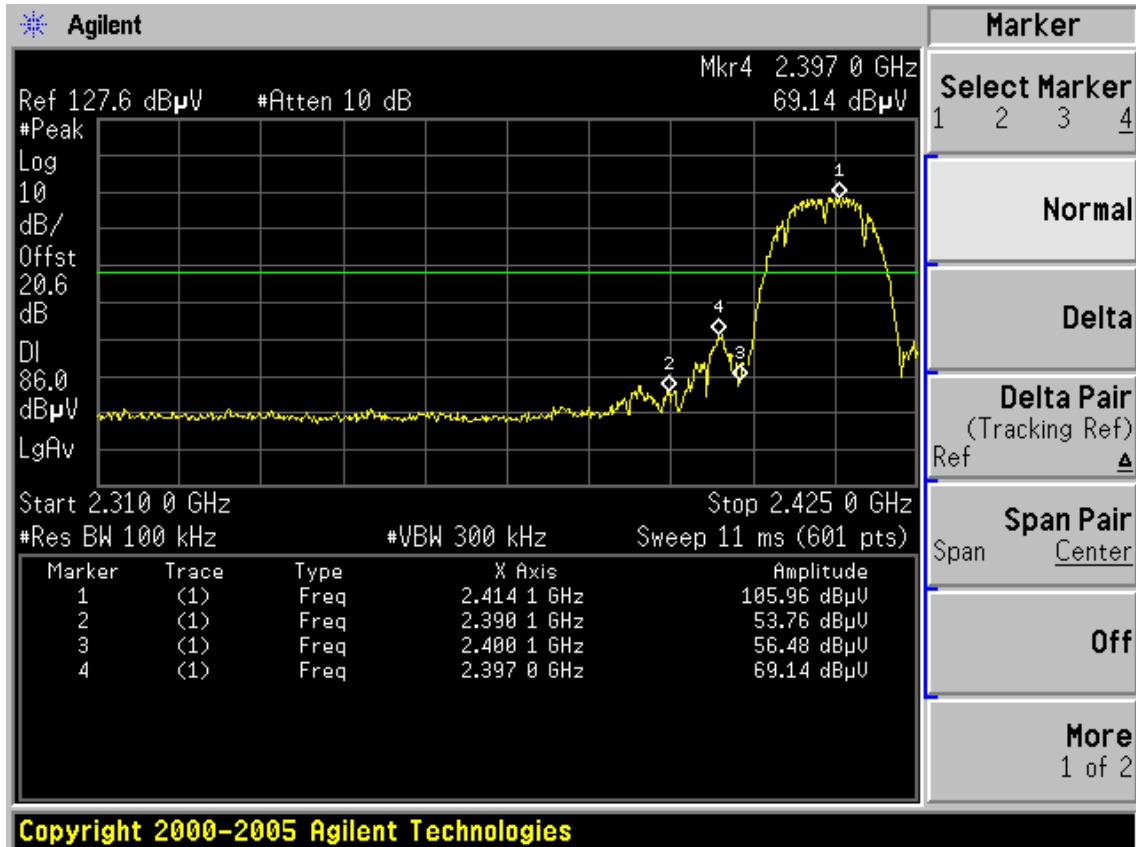
Conducted emission test data:

Chain 1:

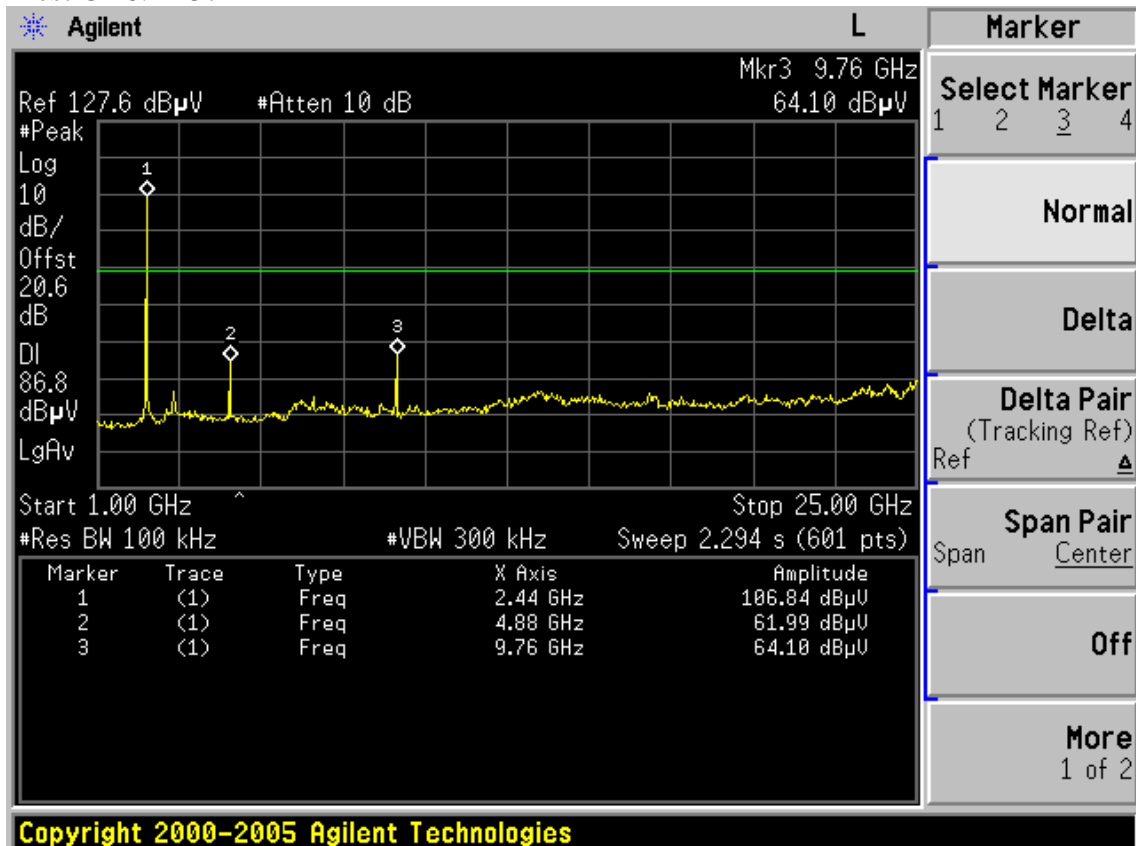
Test Mode: IEEE 802.11b TX

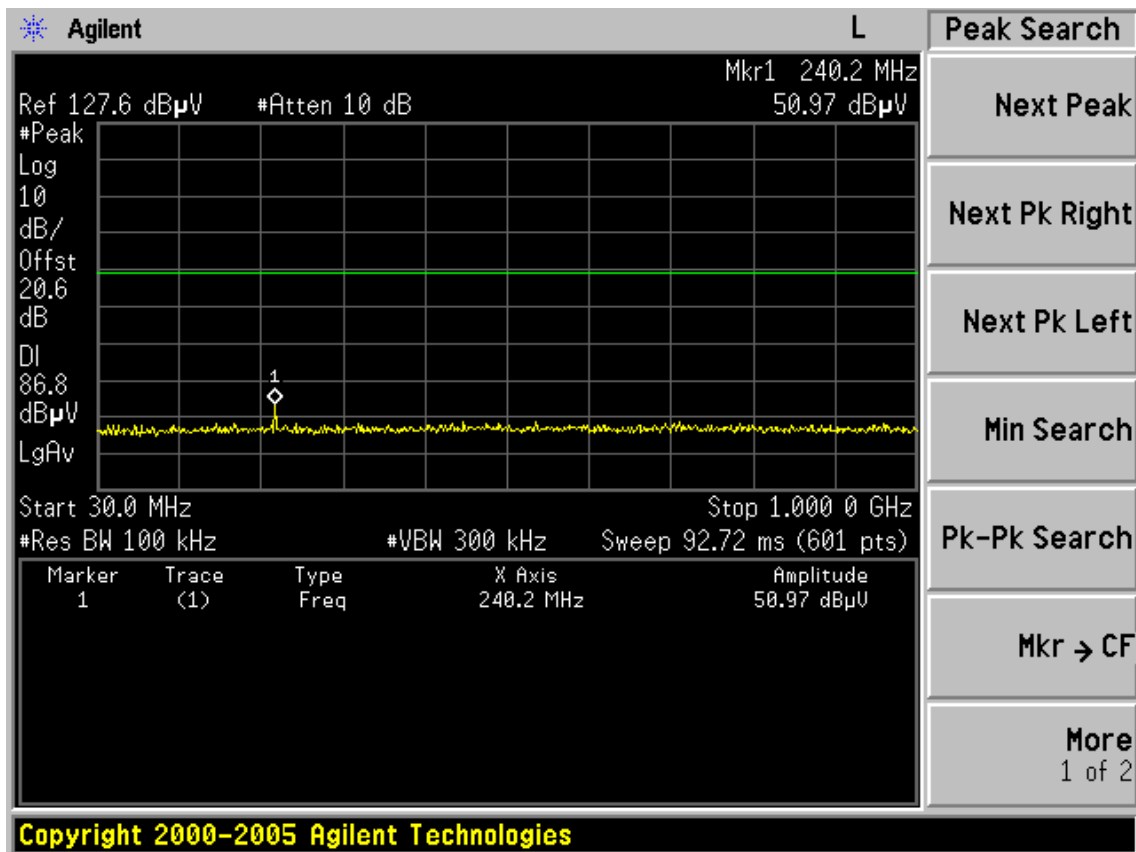
Test CH1: 2412MHz



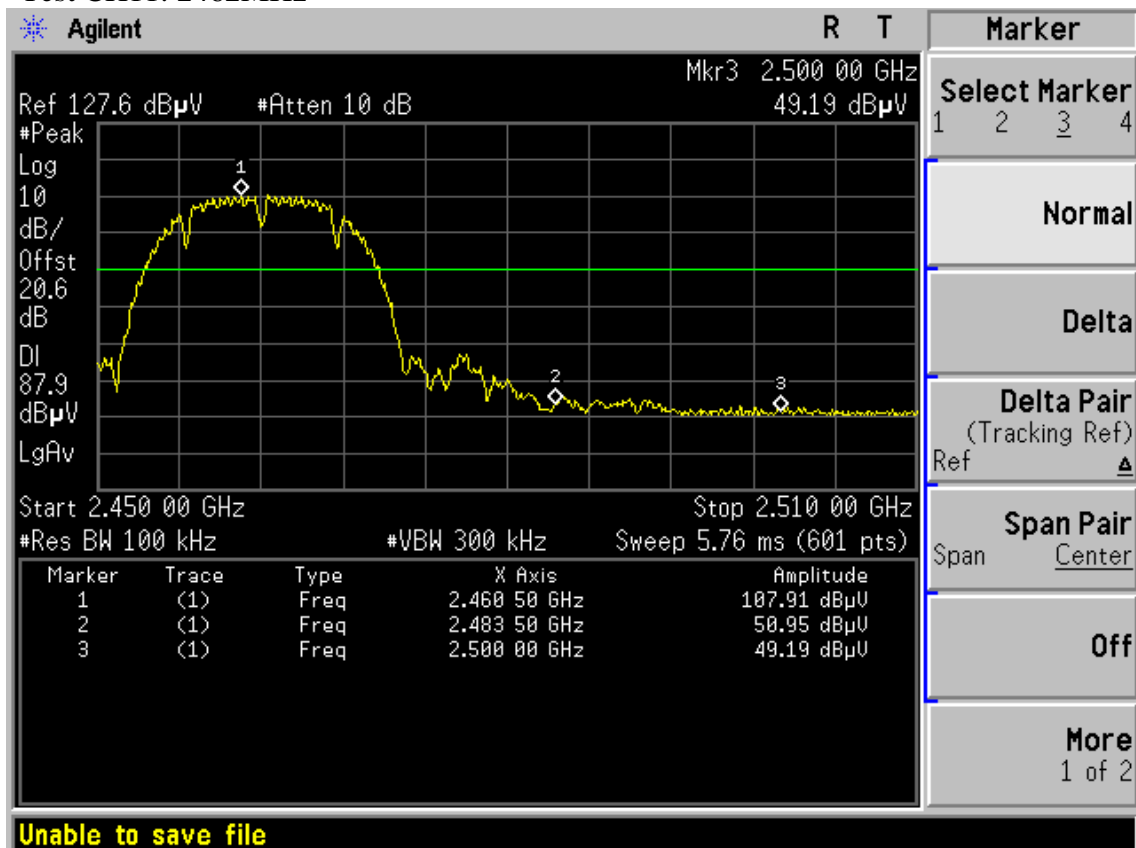


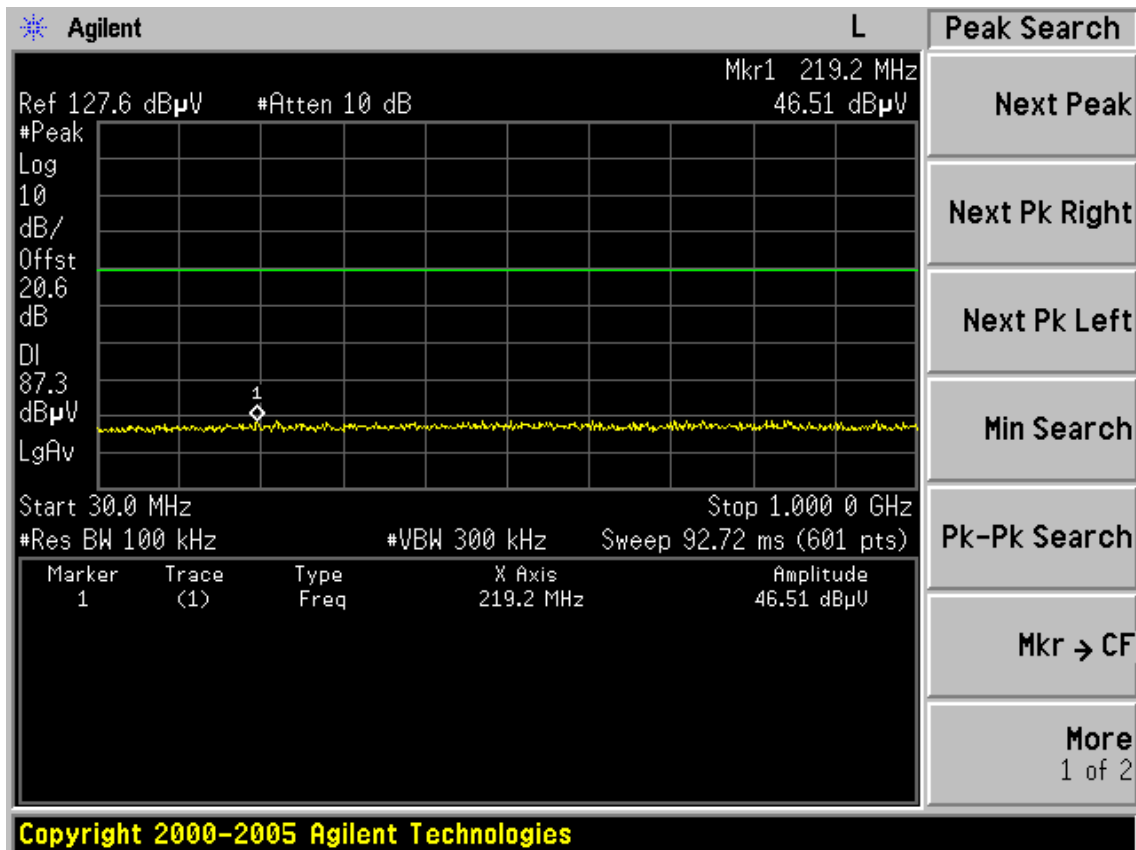
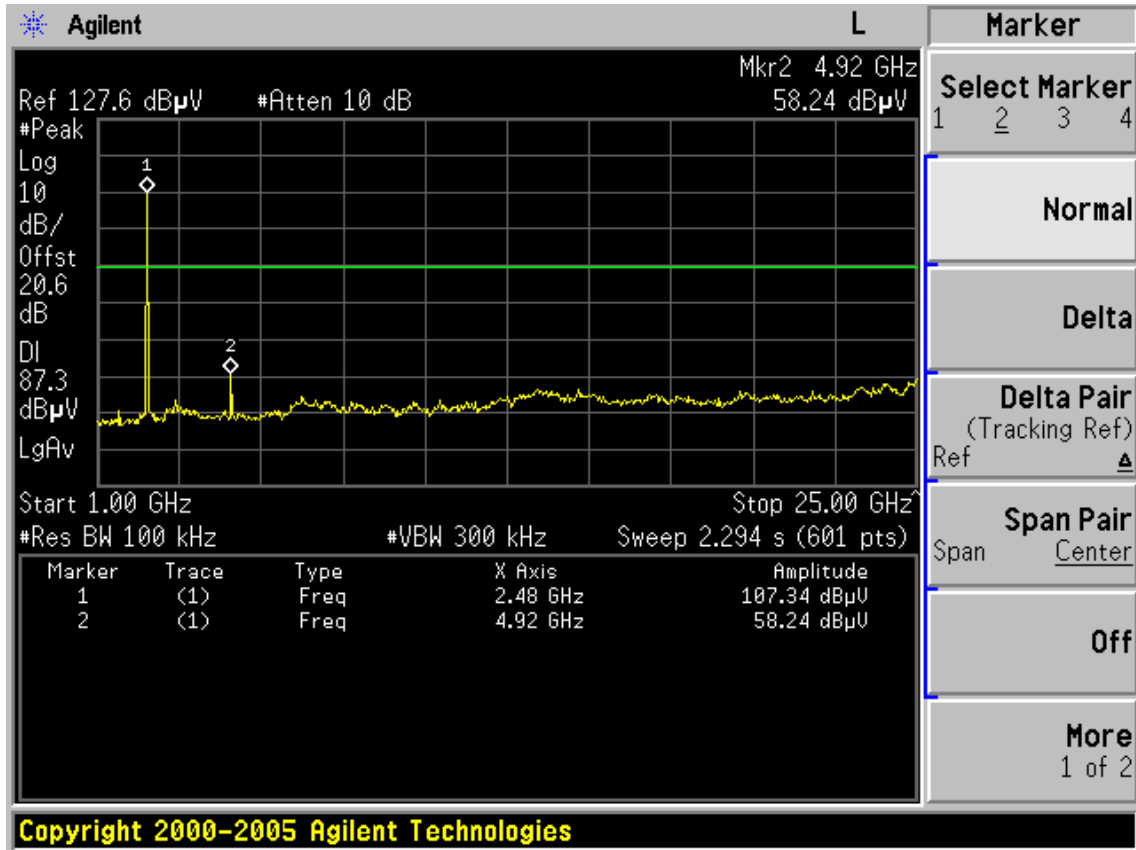
Test CH6: 2437MHz





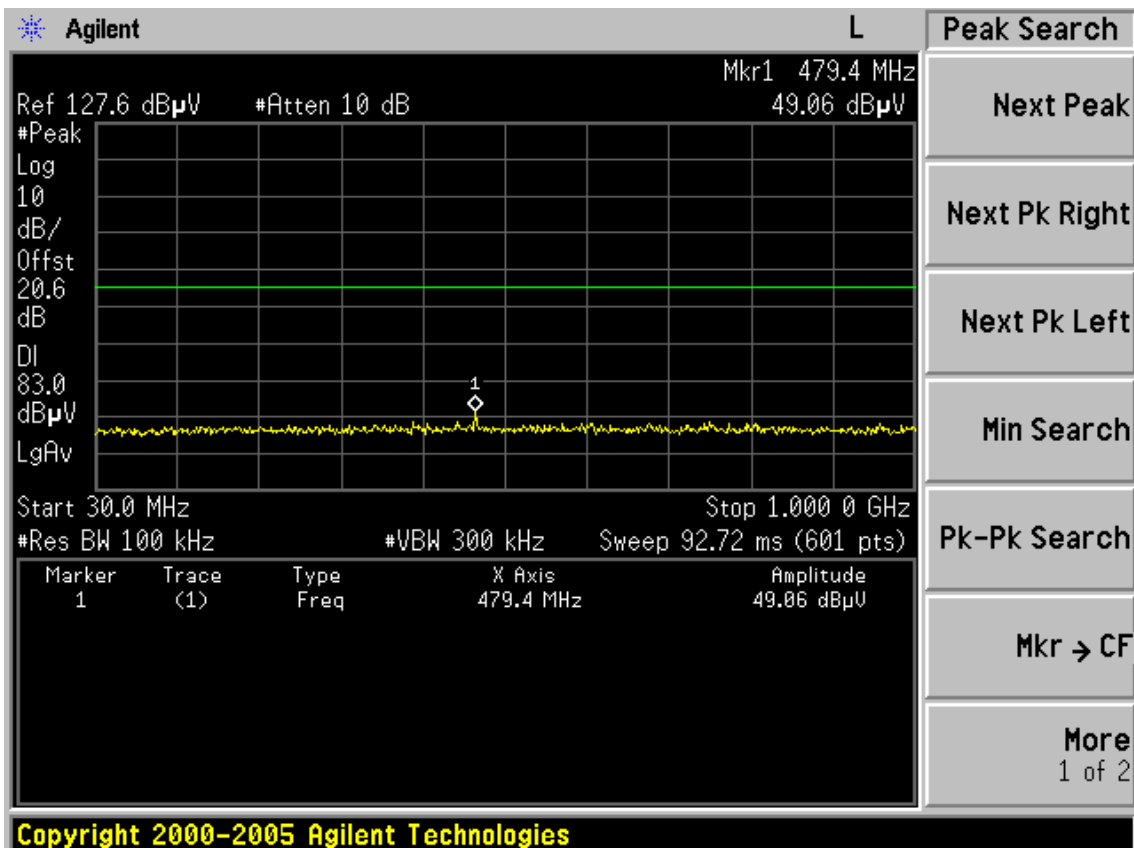
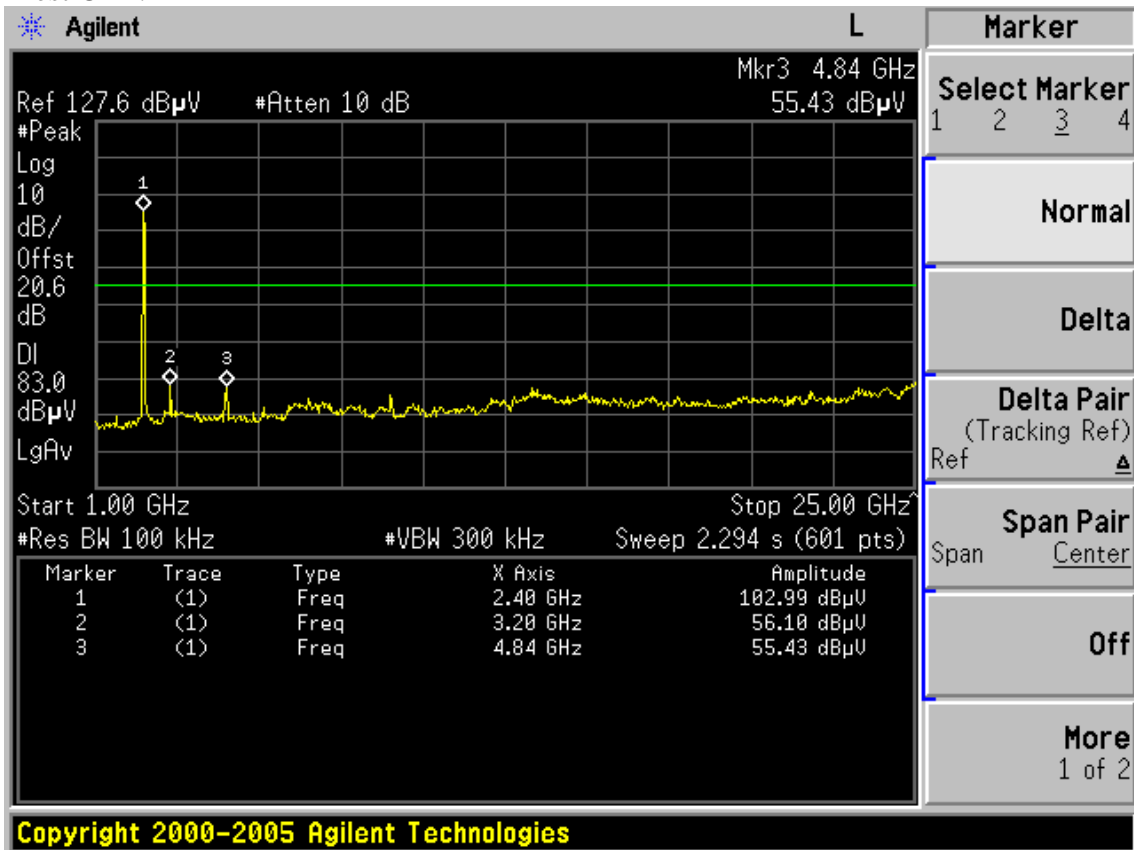
Test CH11: 2462MHz

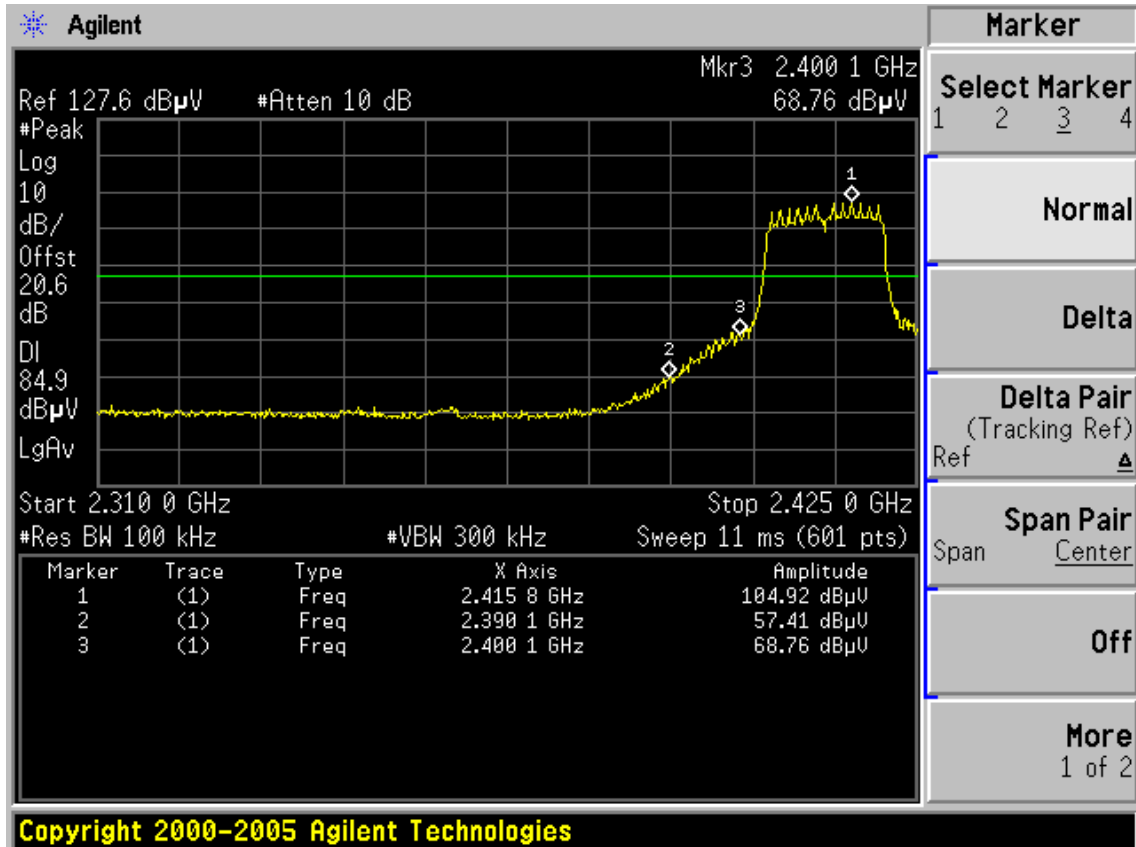




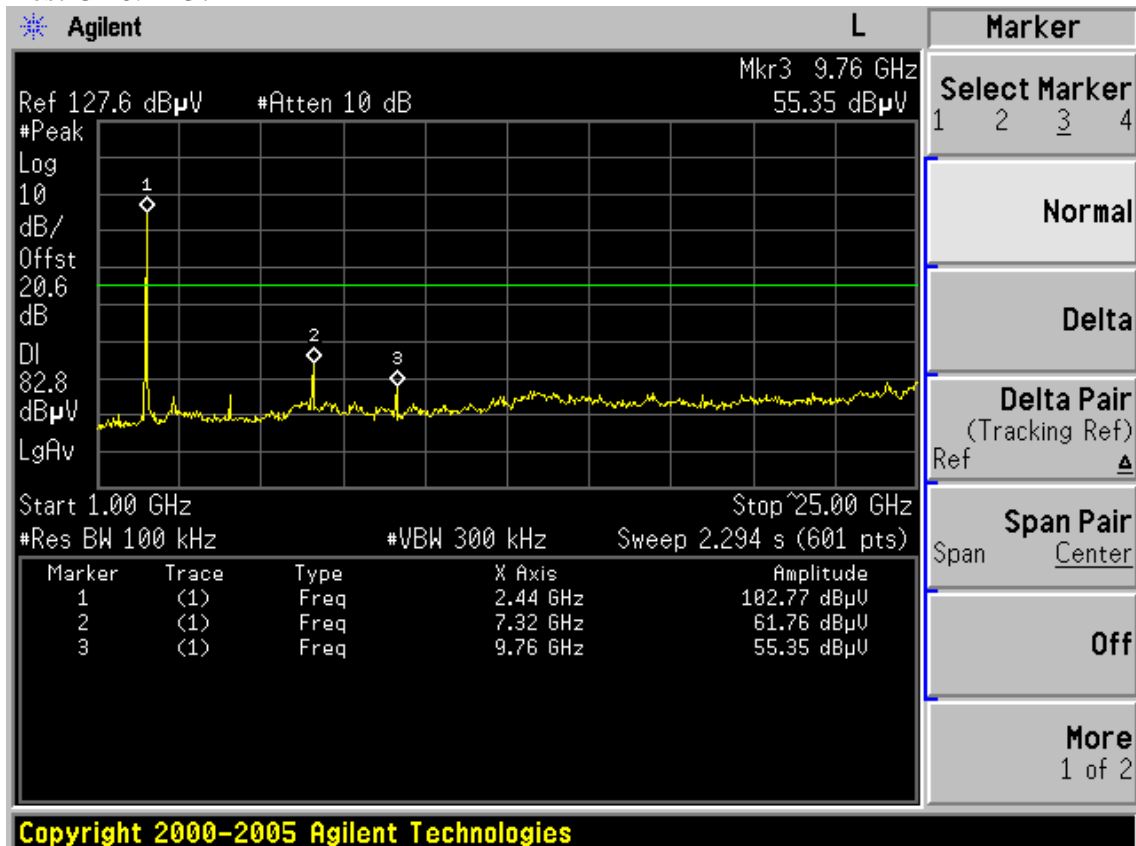
Test Mode: IEEE 802.11g TX

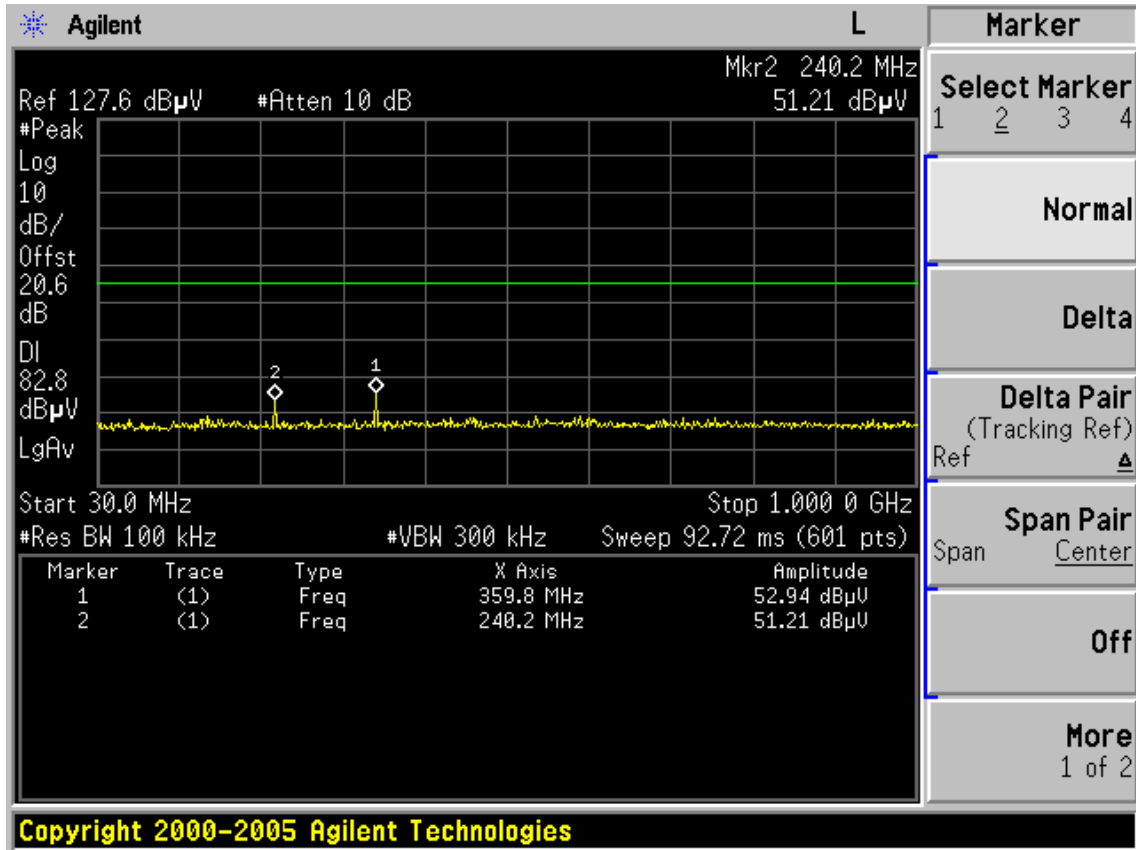
Test CH1: 2412MHz



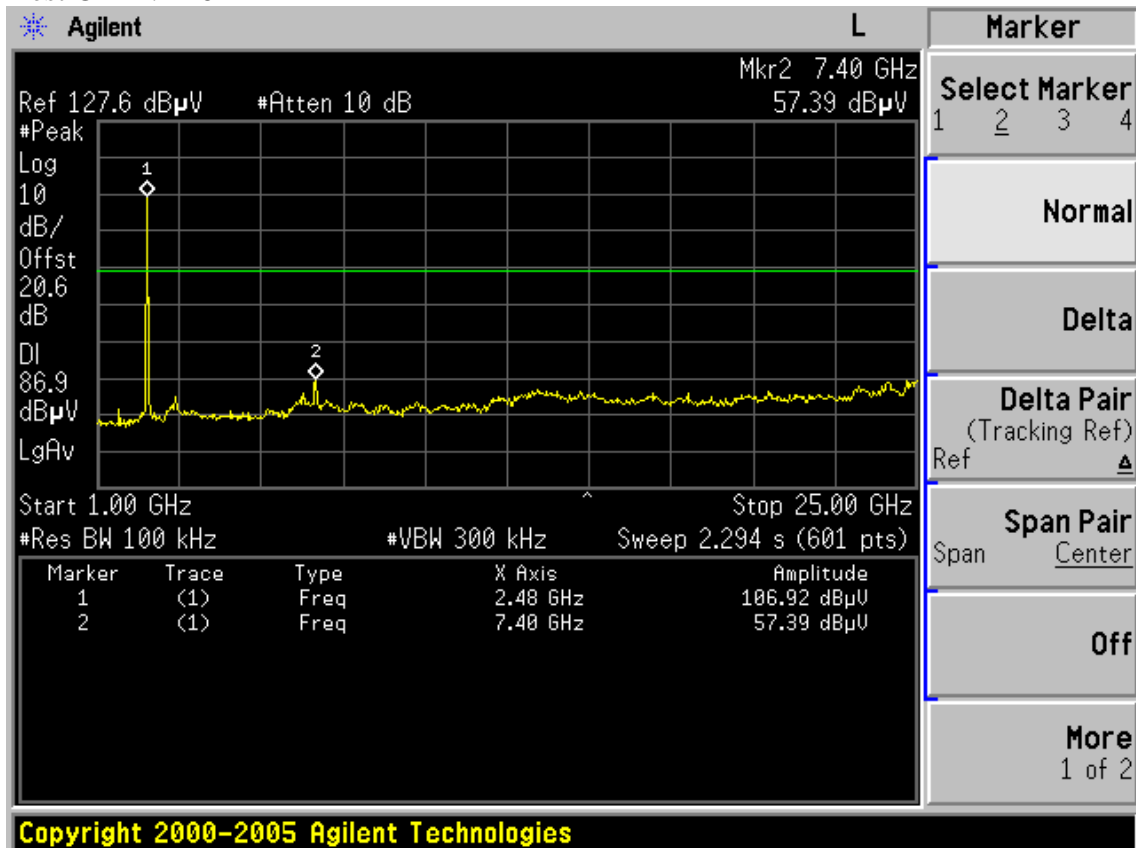


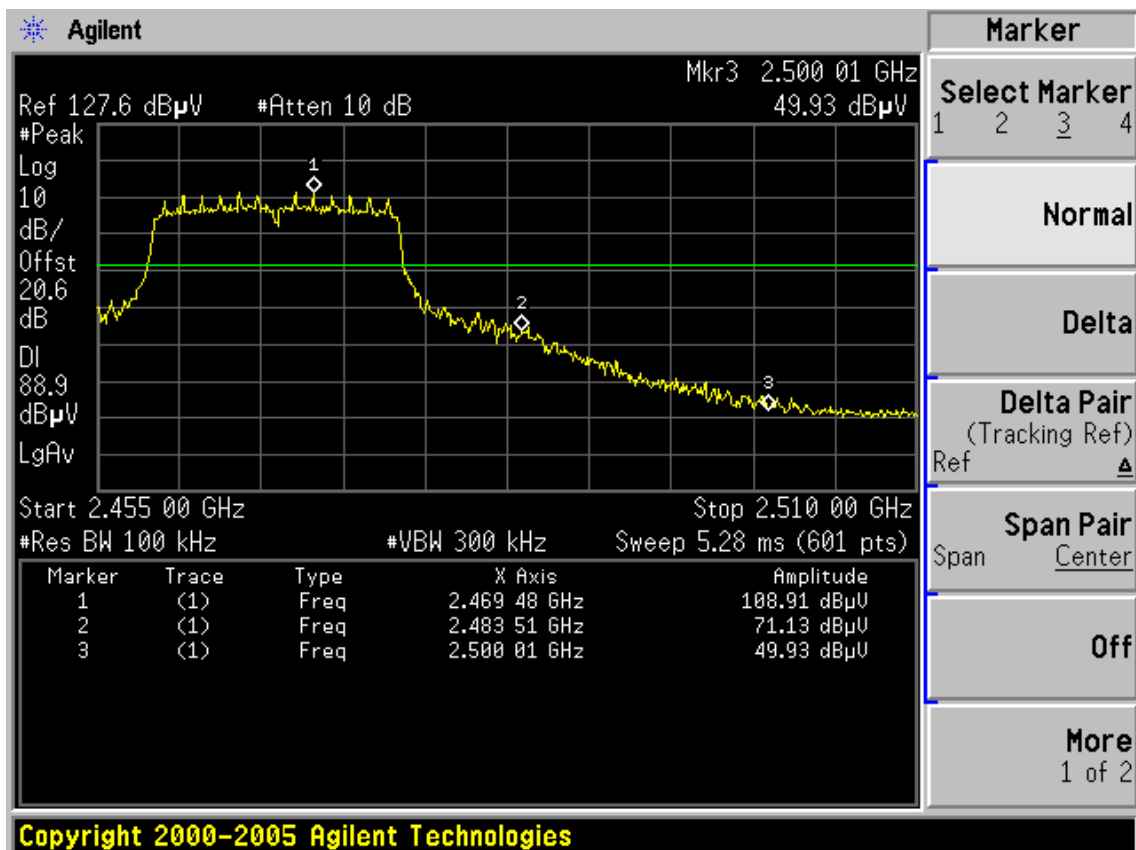
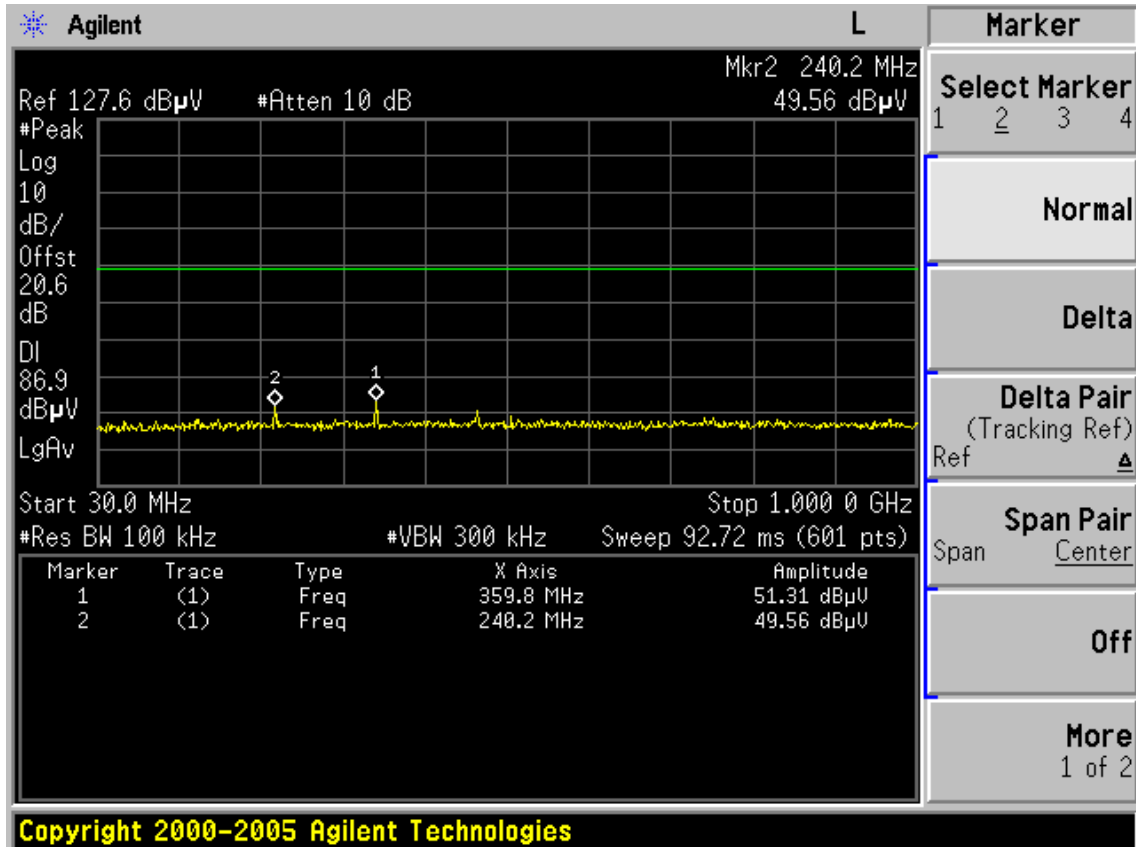
Test CH6: 2437MHz





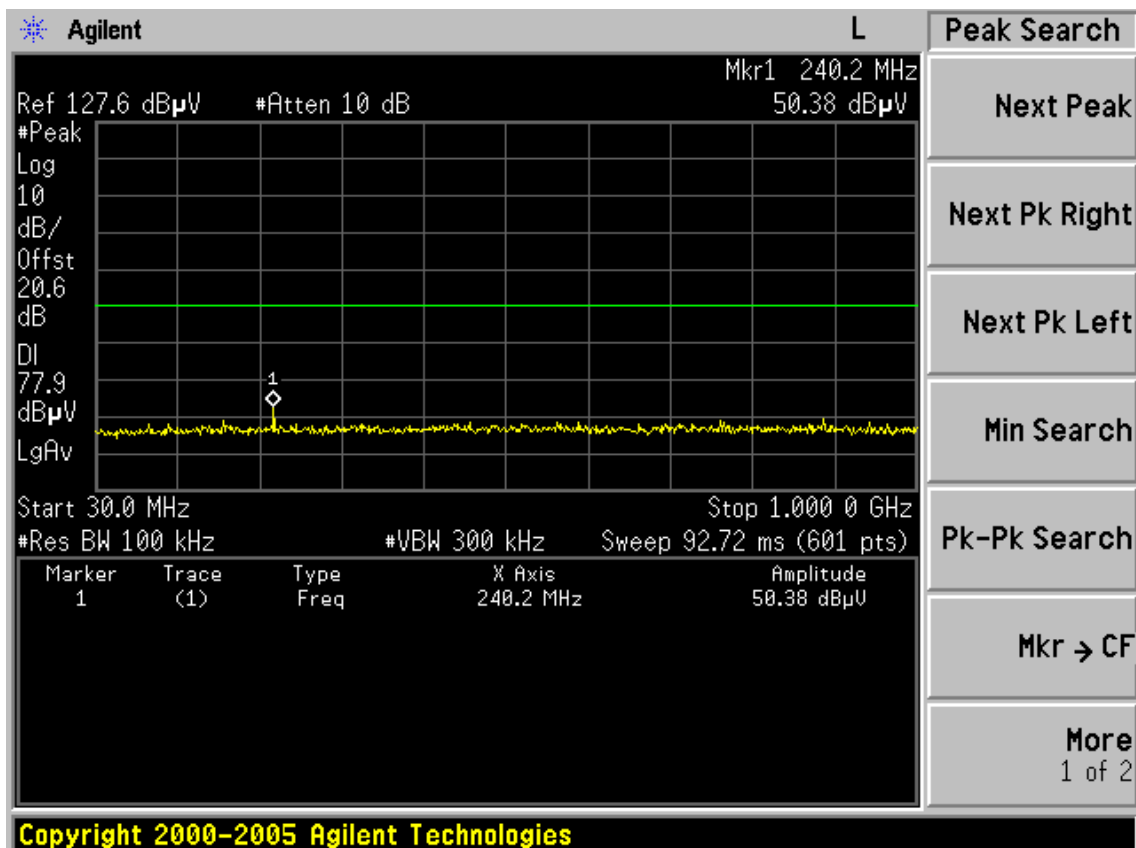
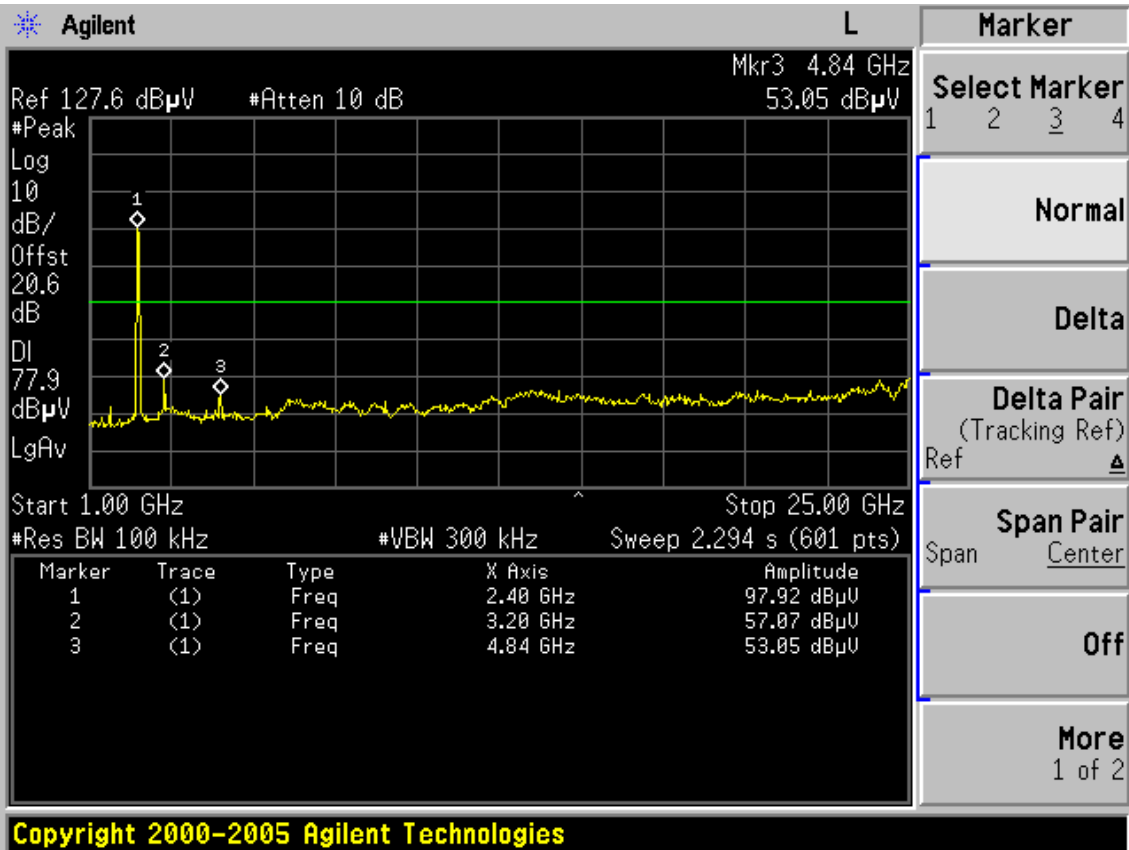
Test CH11: 2462MHz

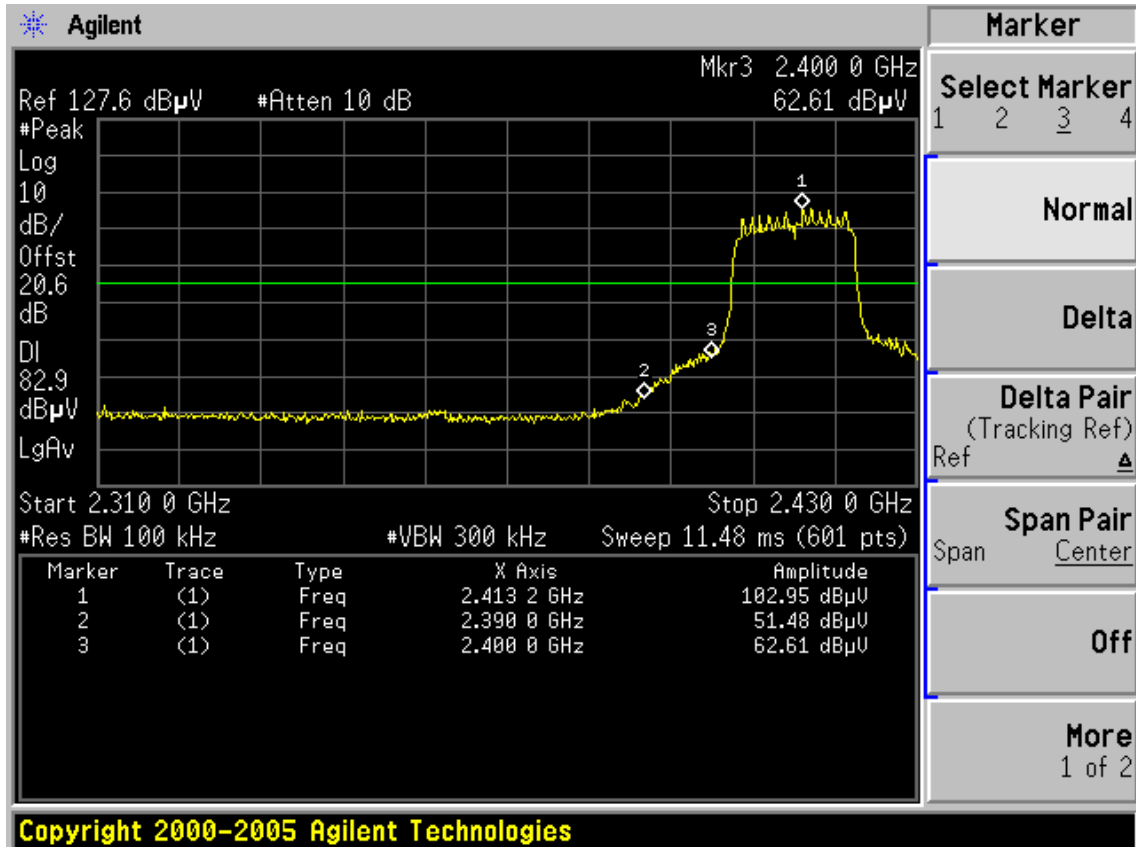




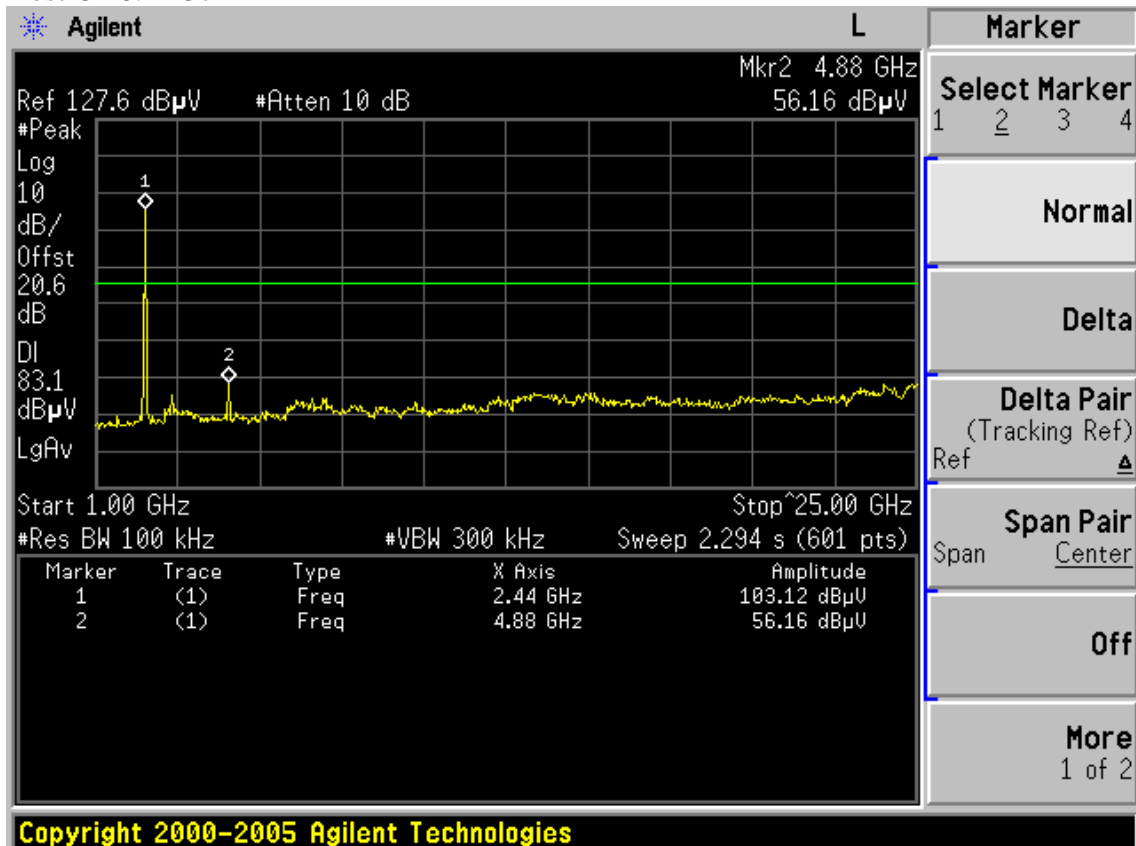
Test Mode: IEEE 802.11n HT20 TX

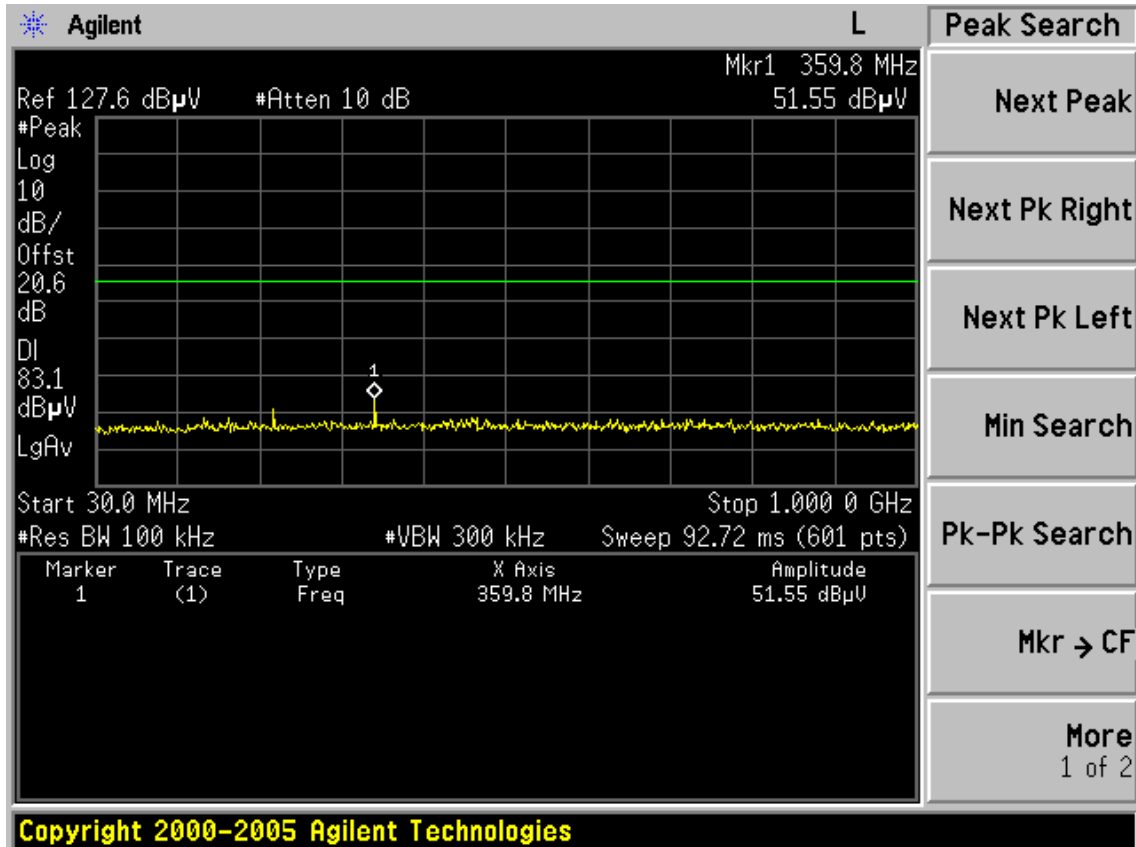
Test CH1: 2412MHz



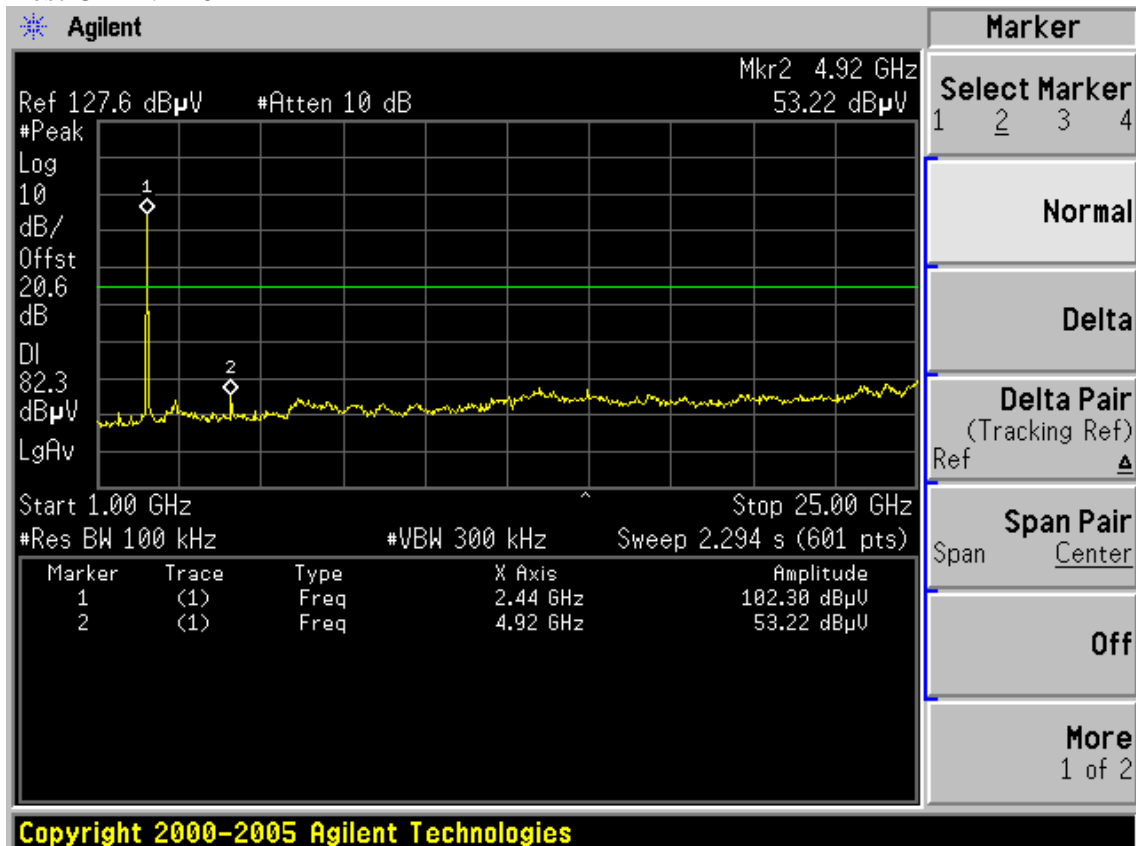


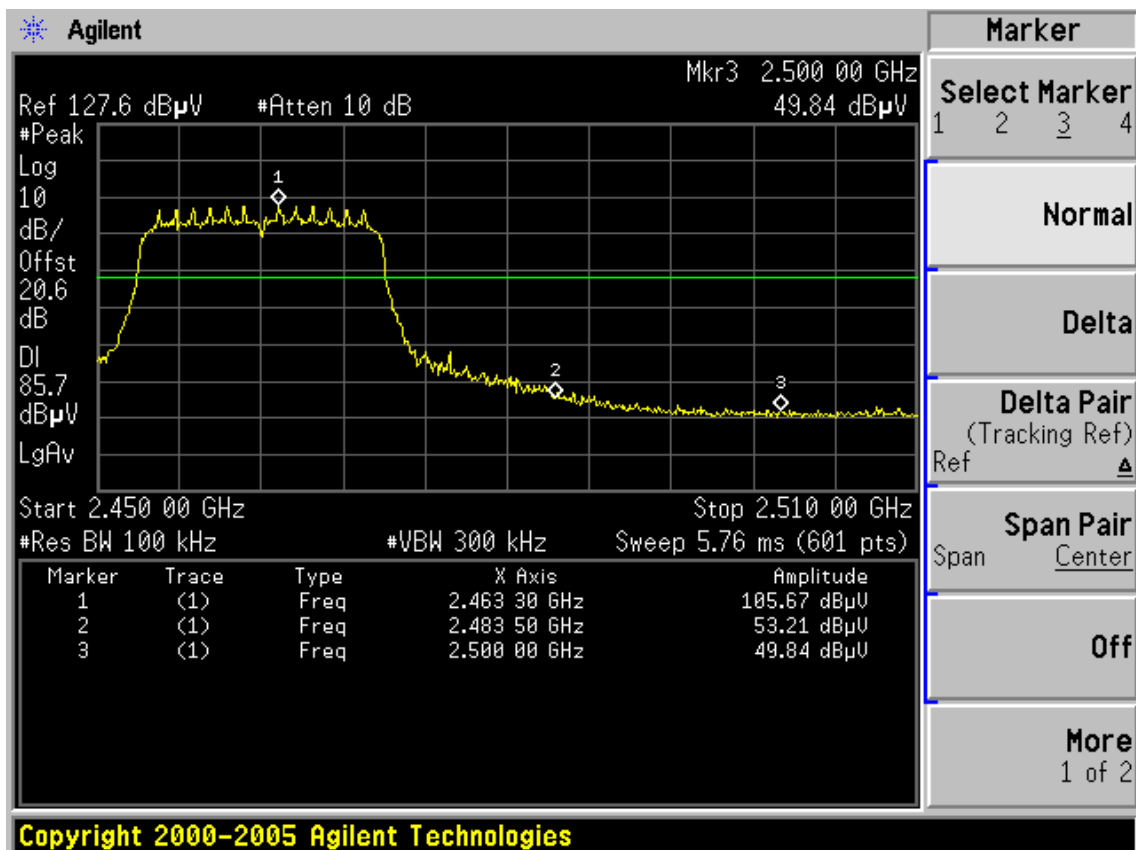
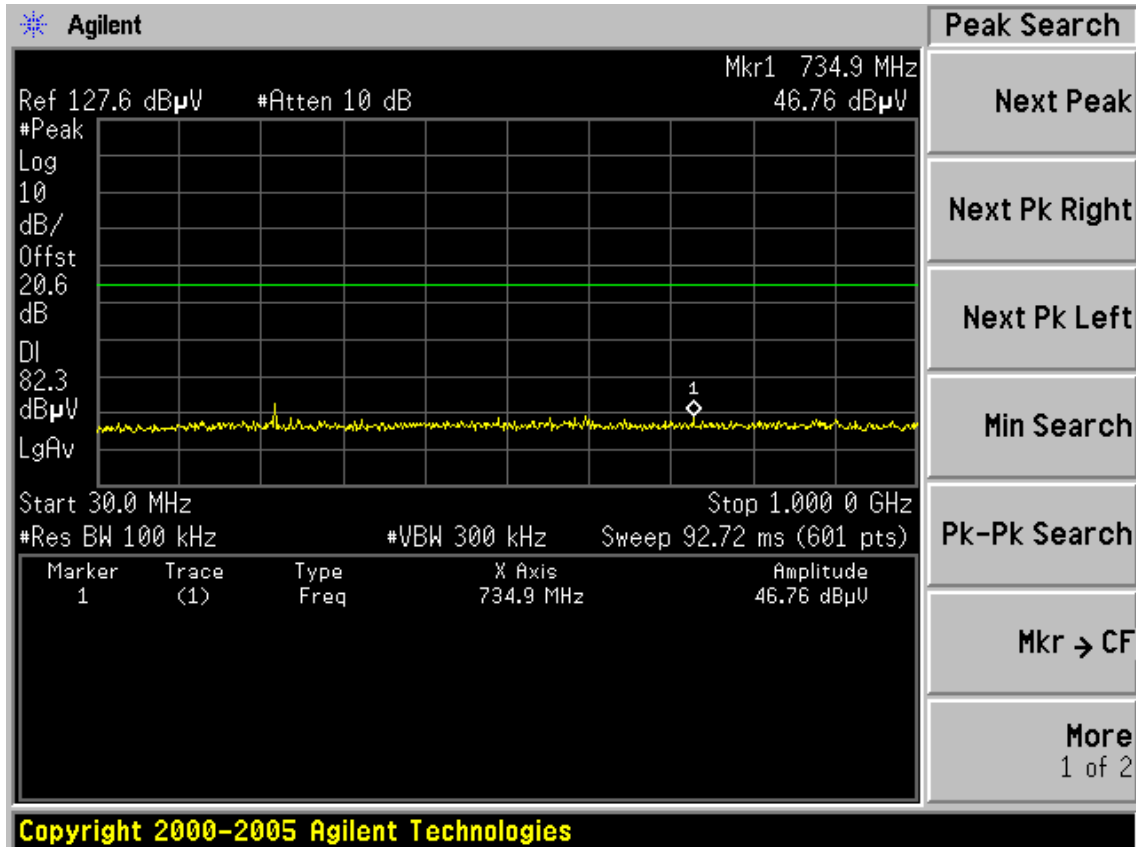
Test CH6: 2437MHz



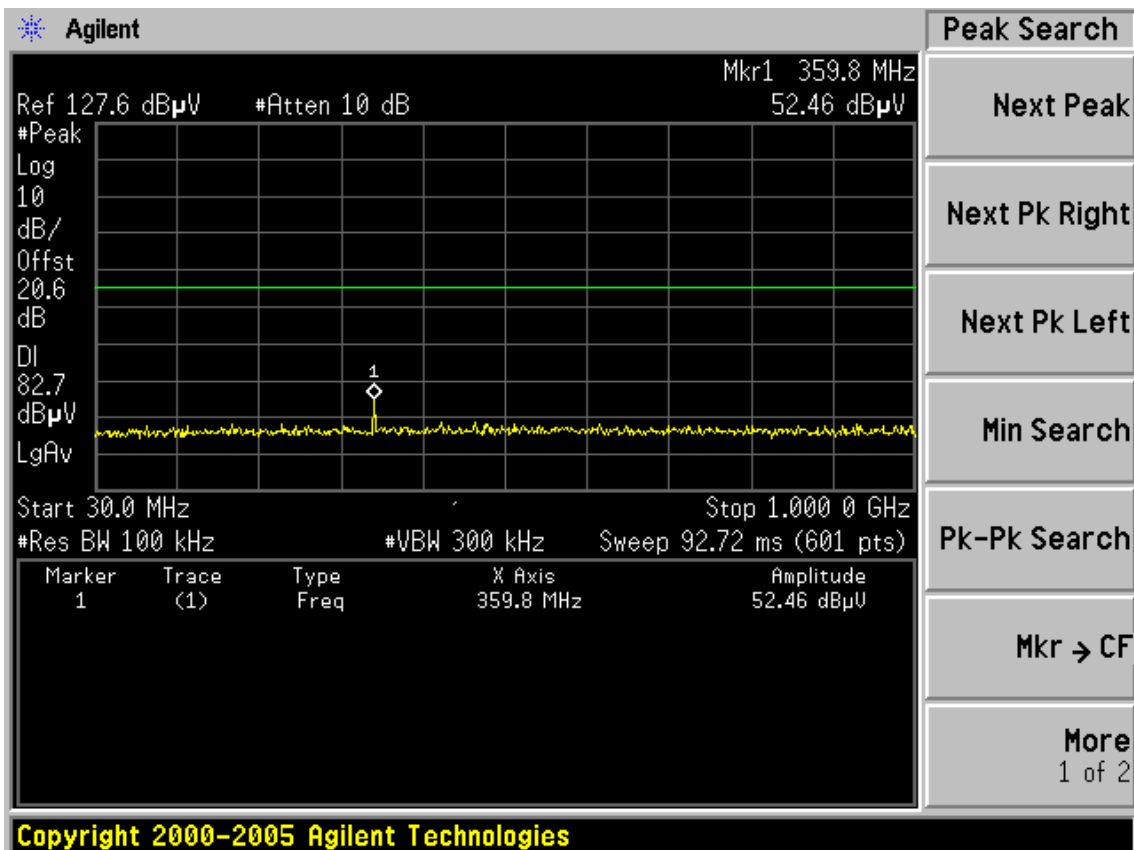
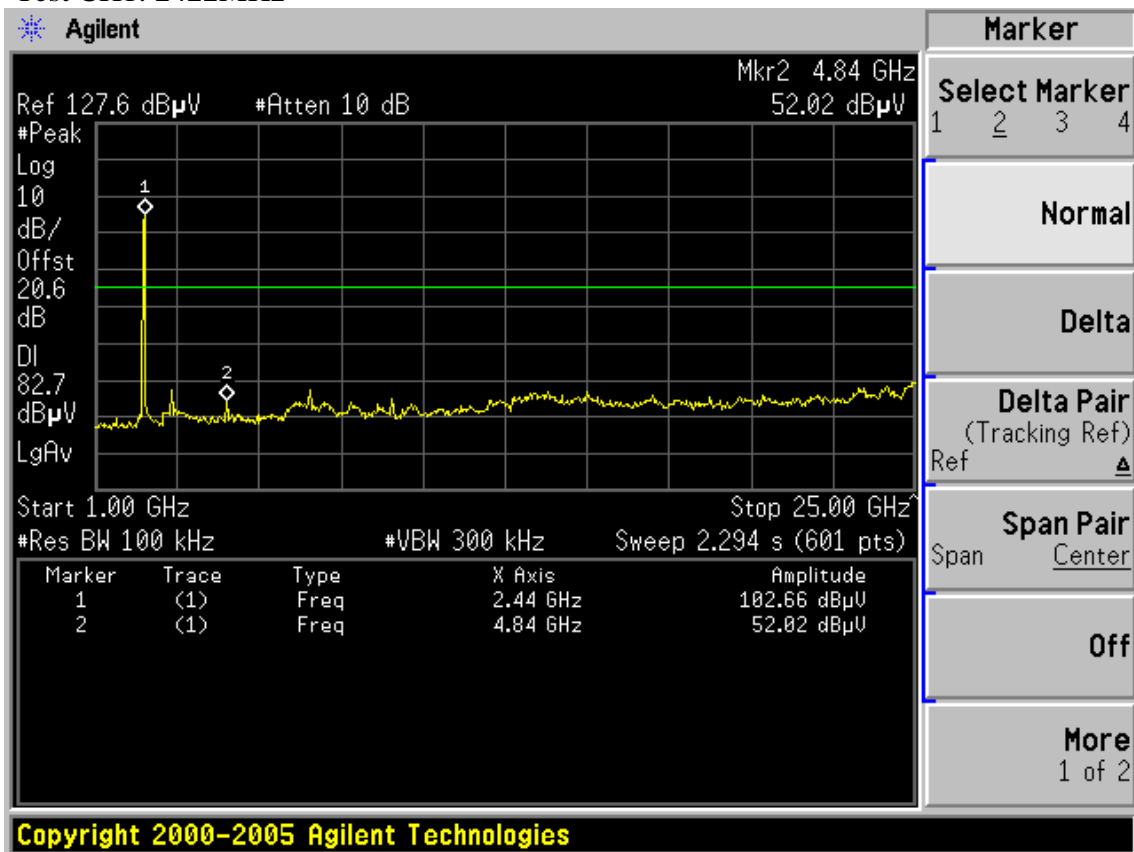


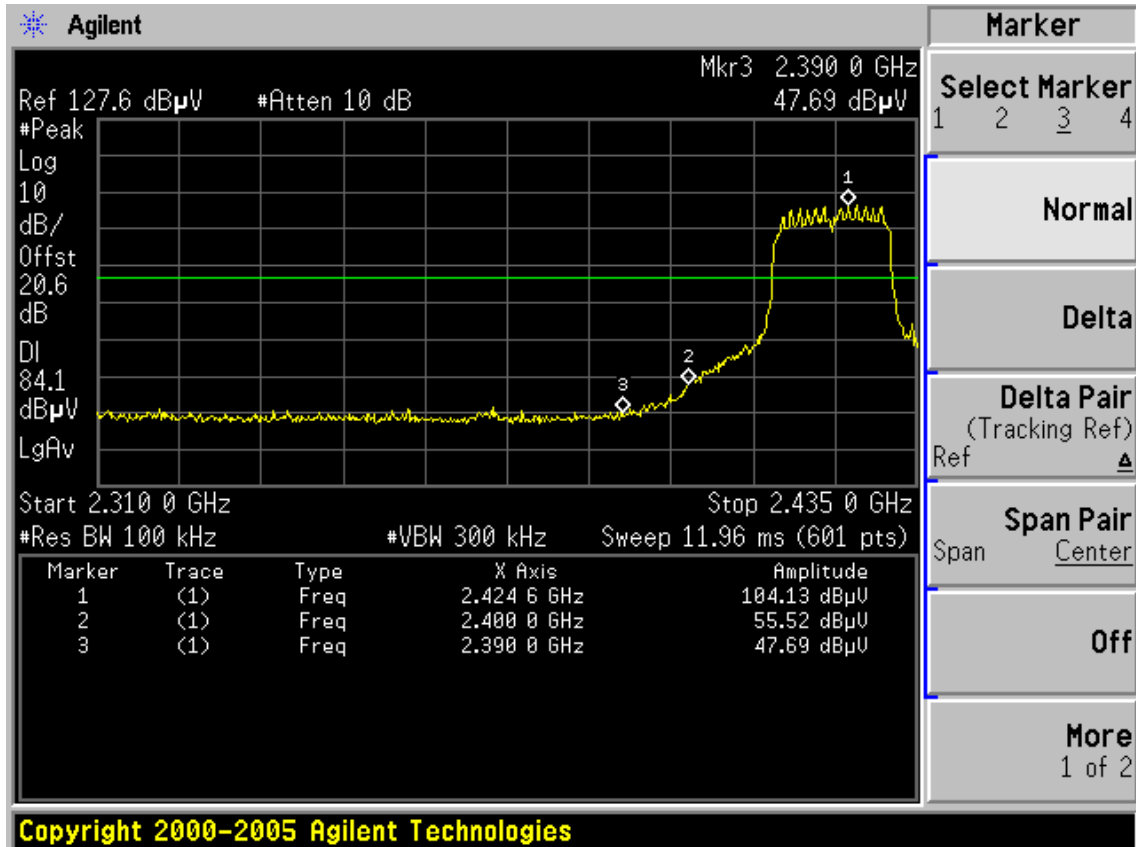
Test CH11: 2462MHz



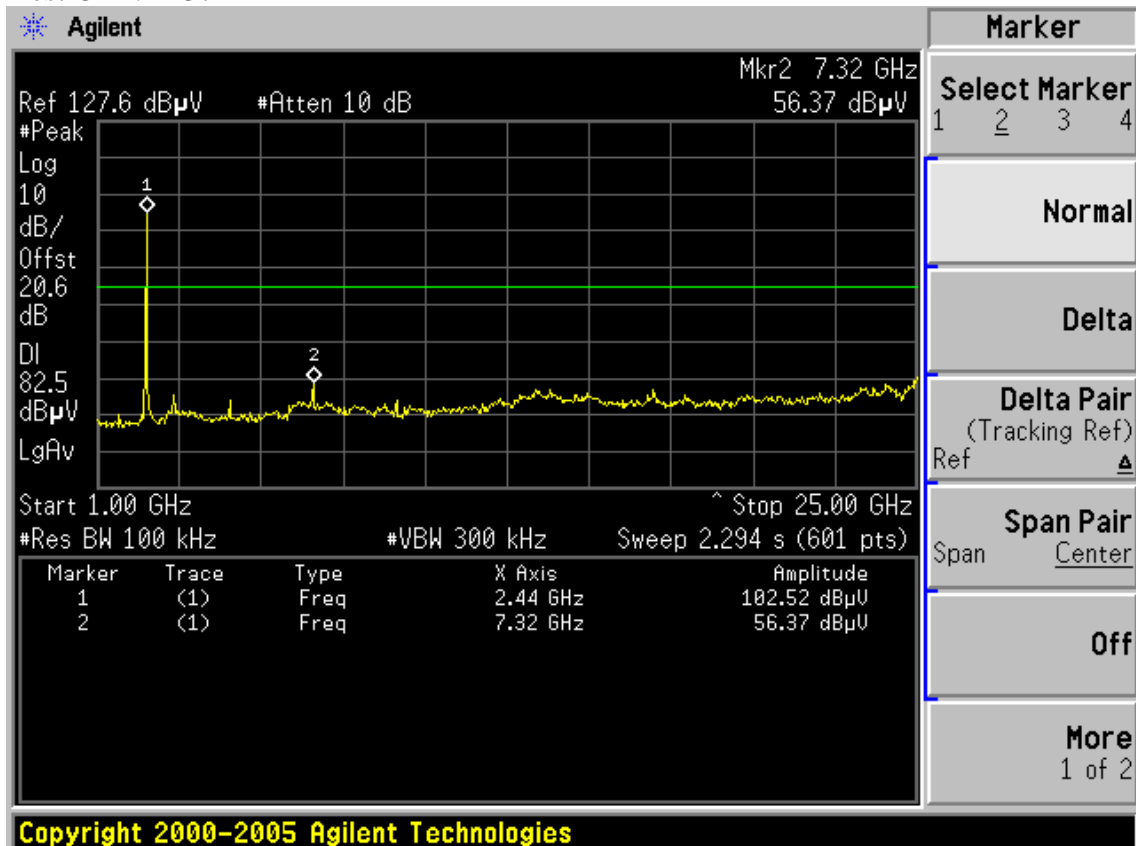


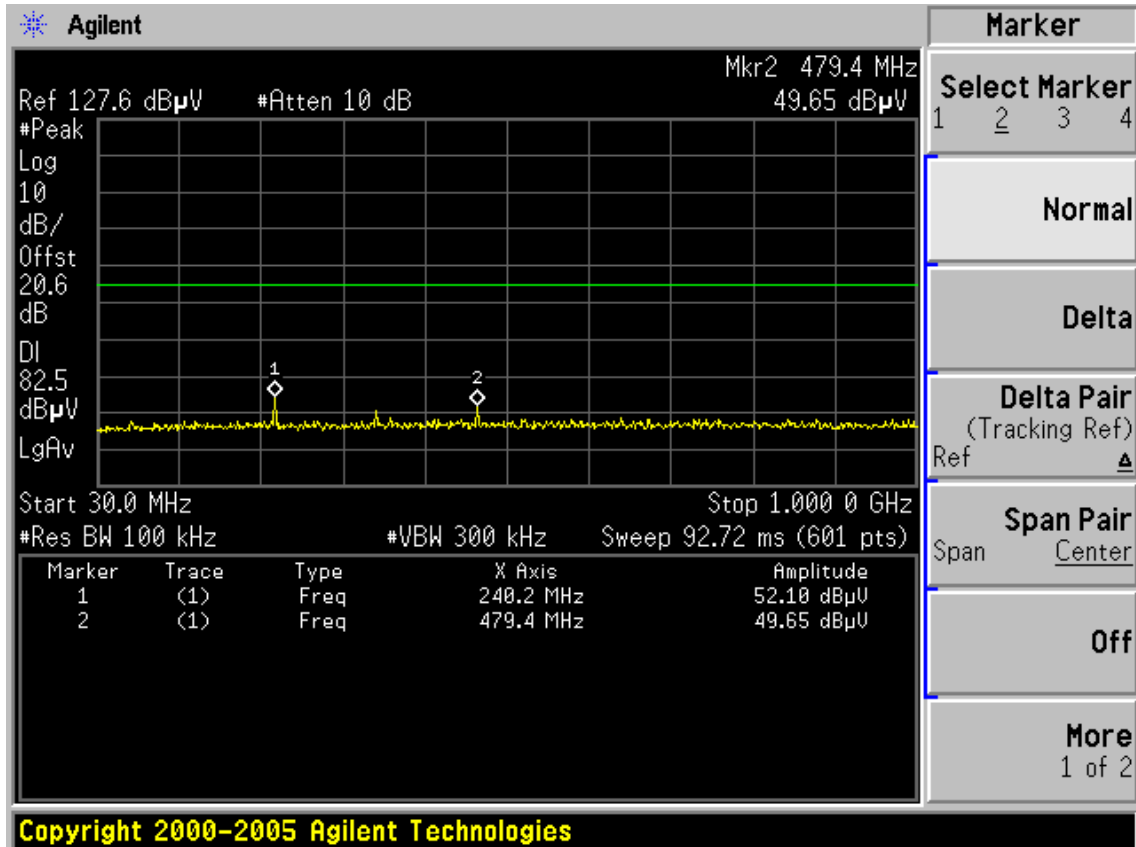
Test Mode: IEEE 802.11n HT40 TX
 Test CH1: 2422MHz



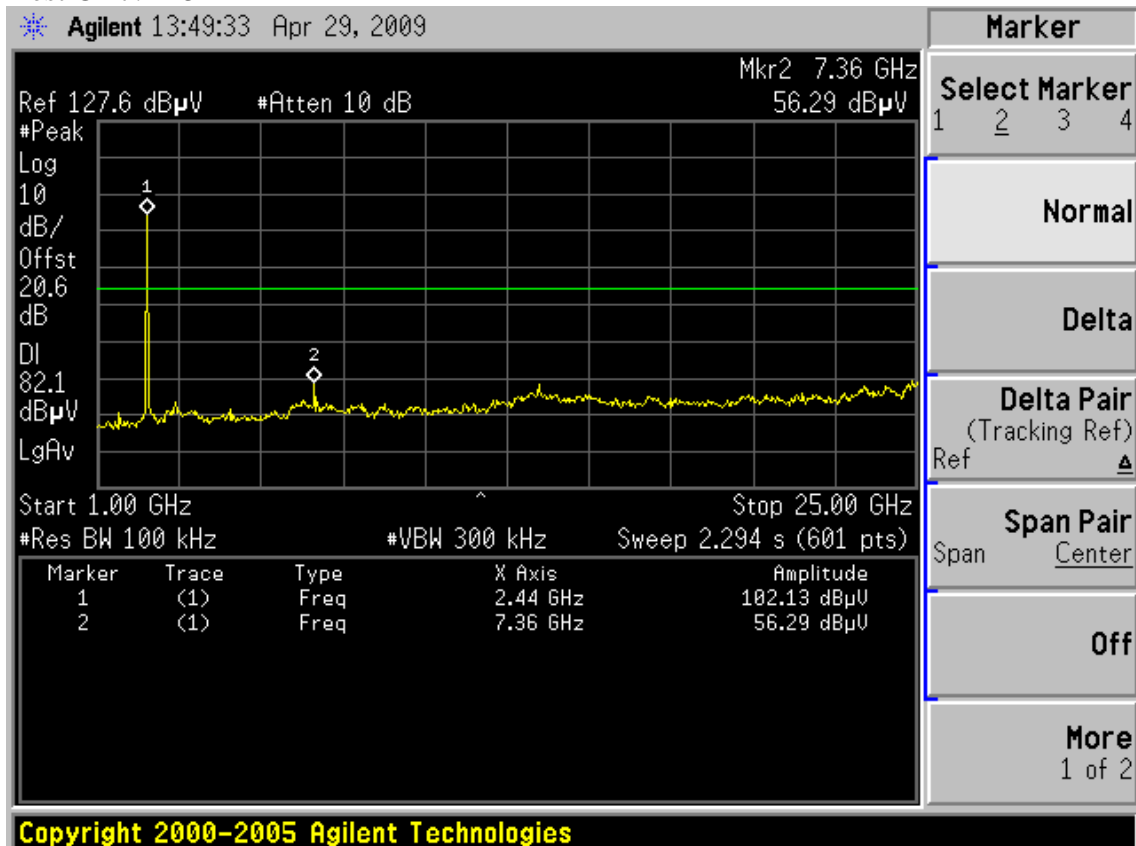


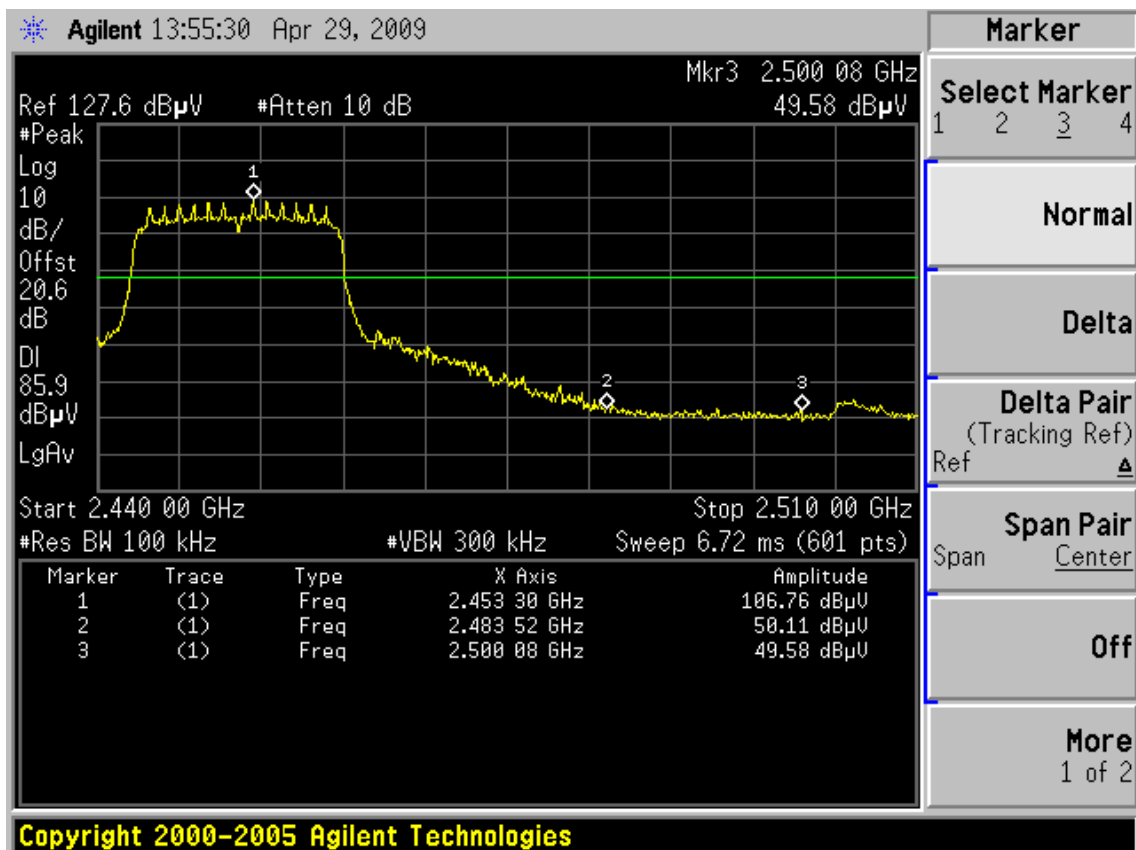
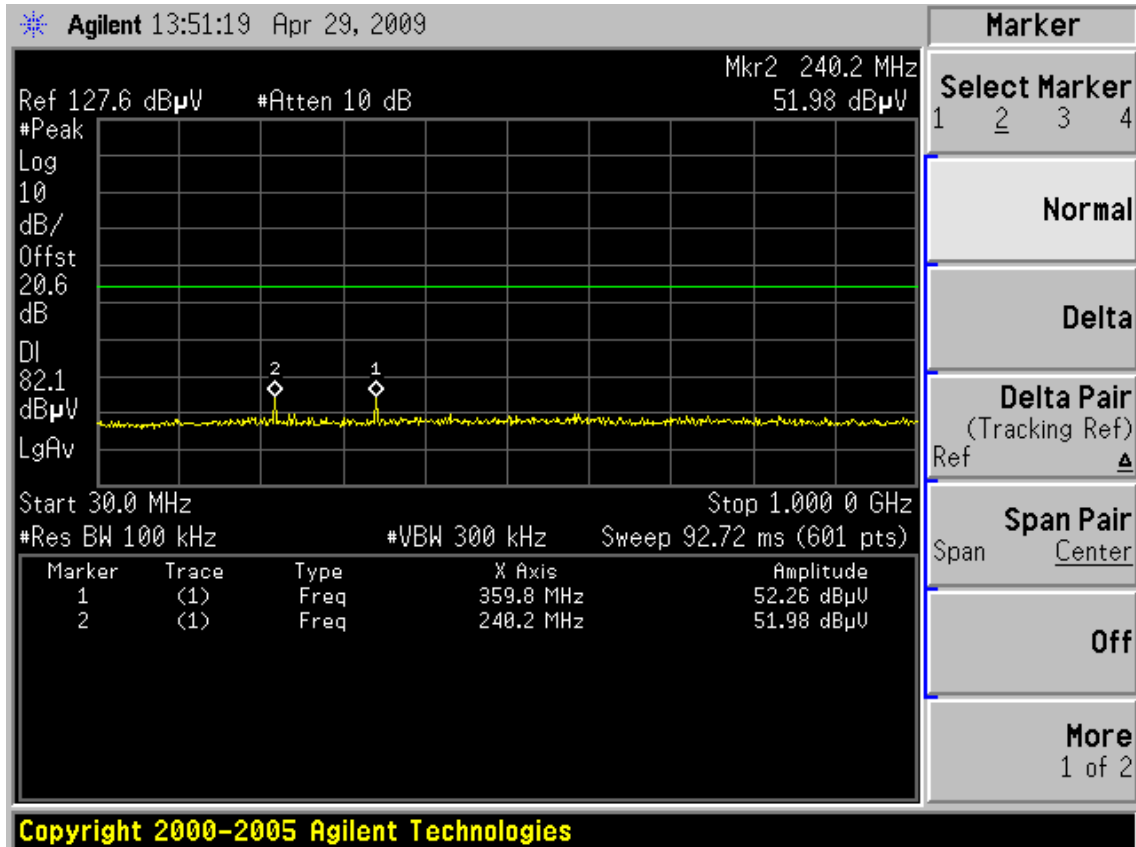
Test CH4: 2437MHz





Test CH7: 2452MHz

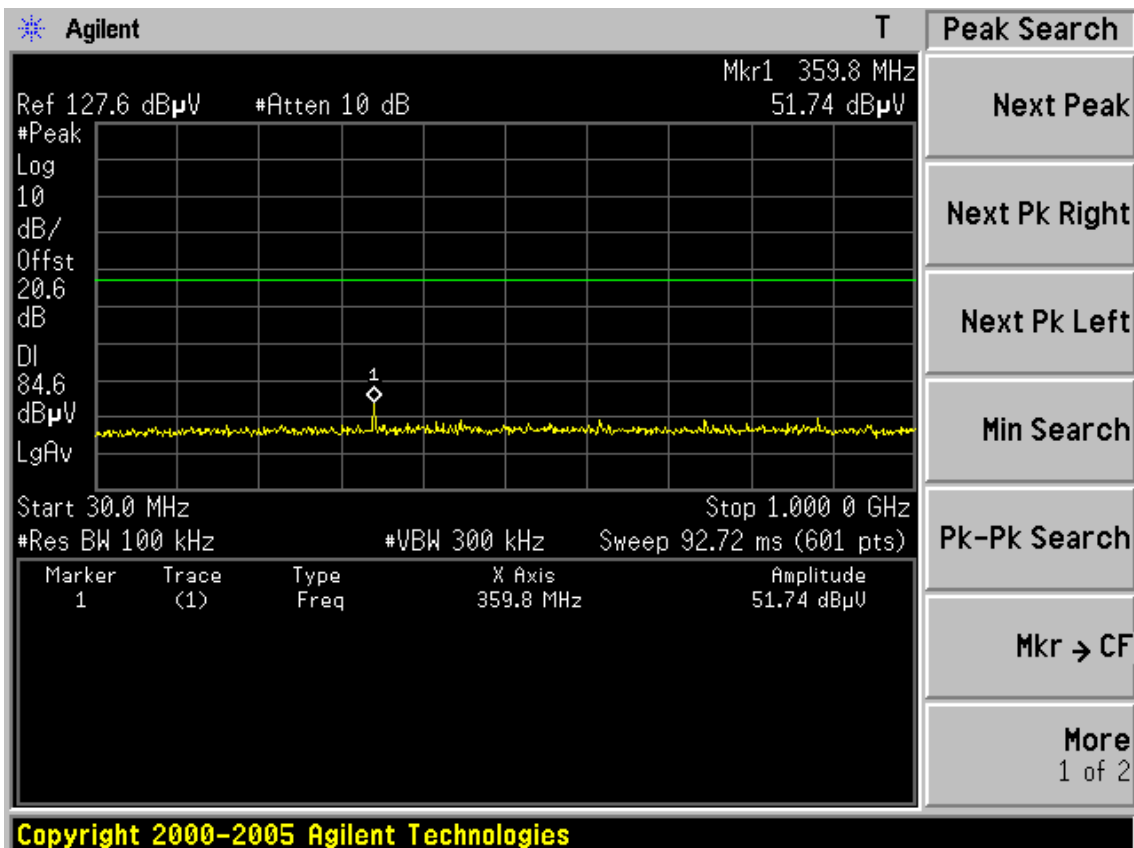
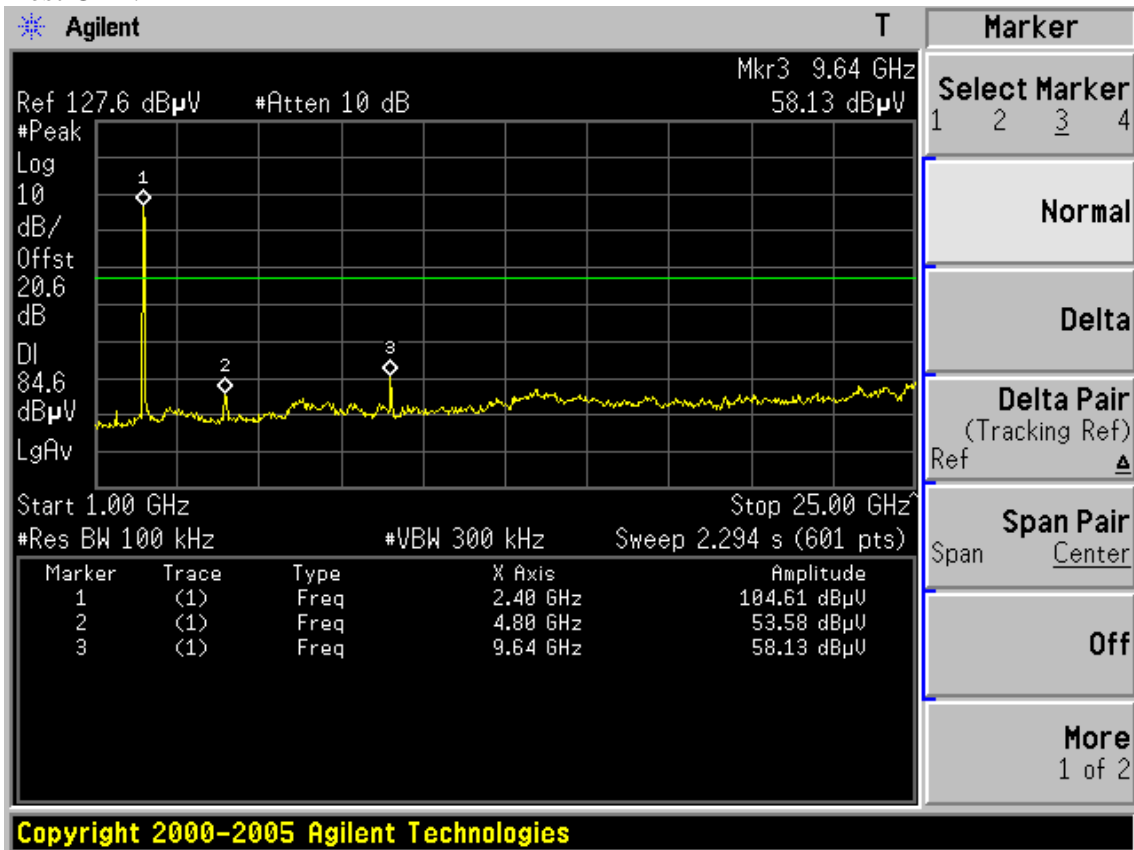


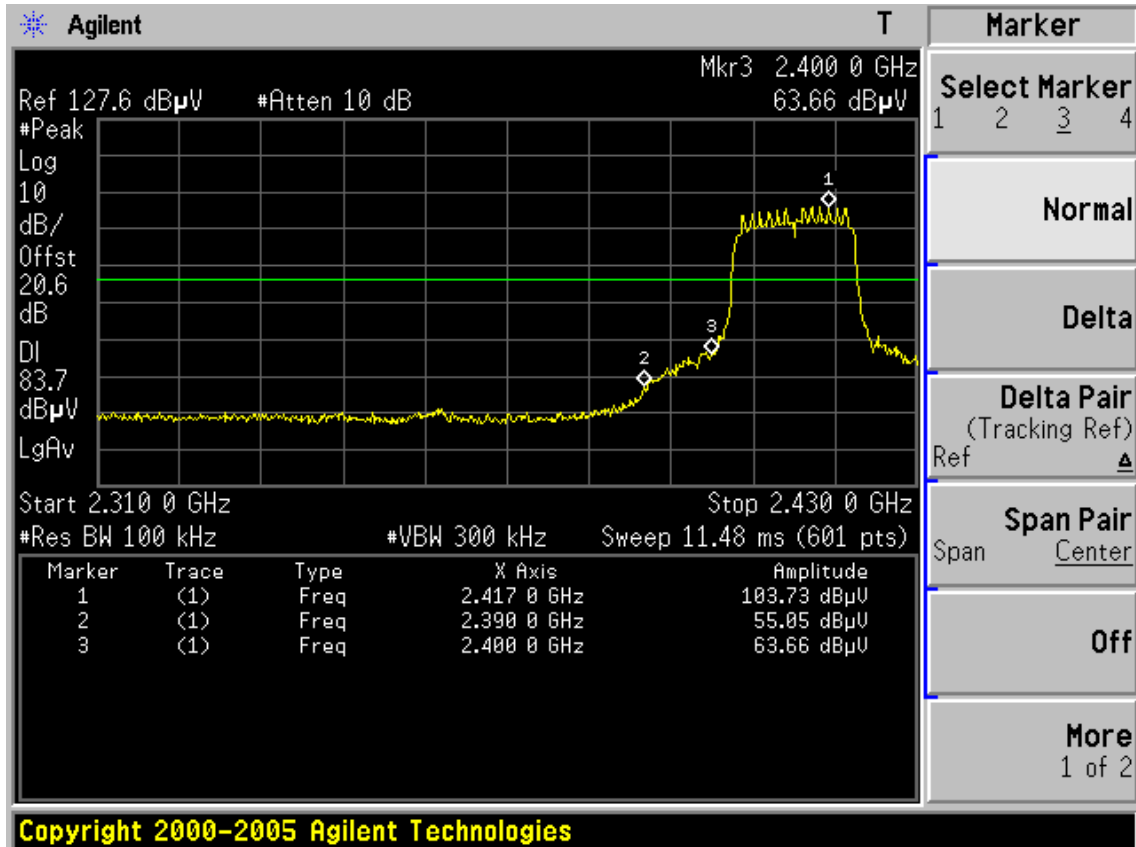


Chain 2:

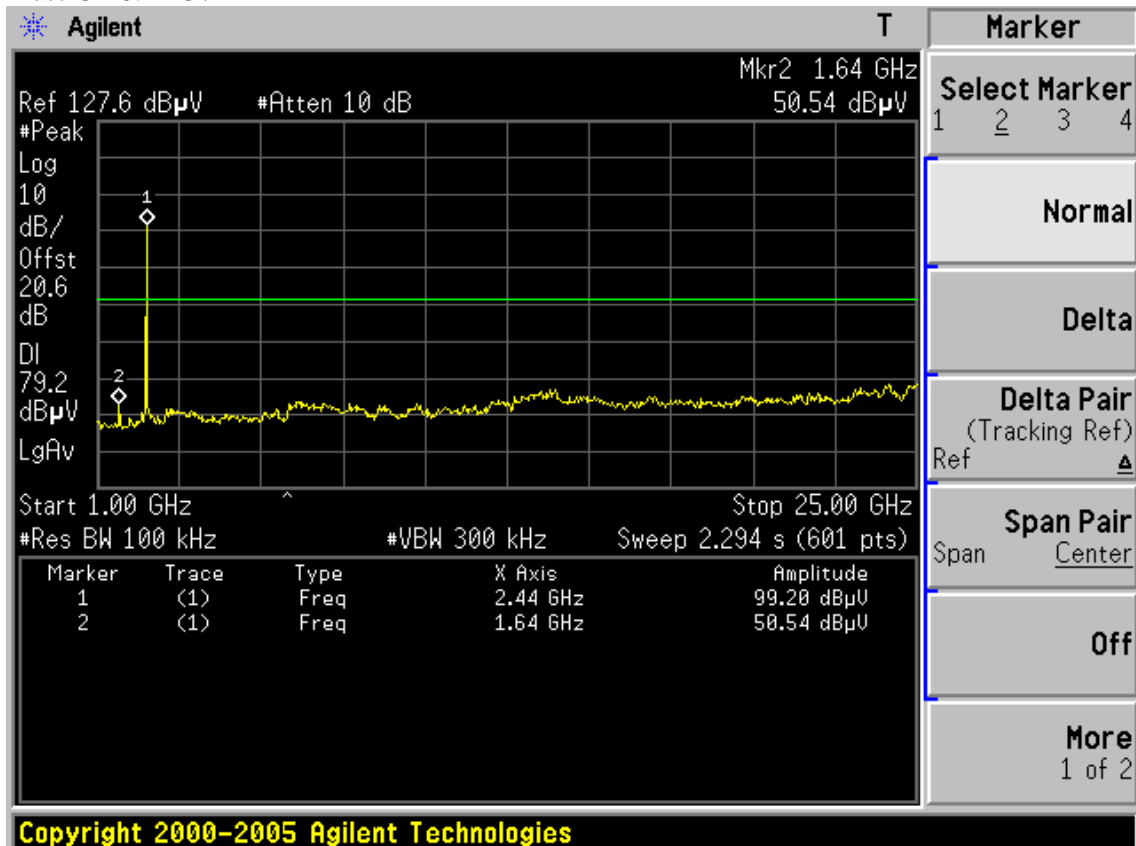
Test Mode: IEEE 802.11n HT20 TX

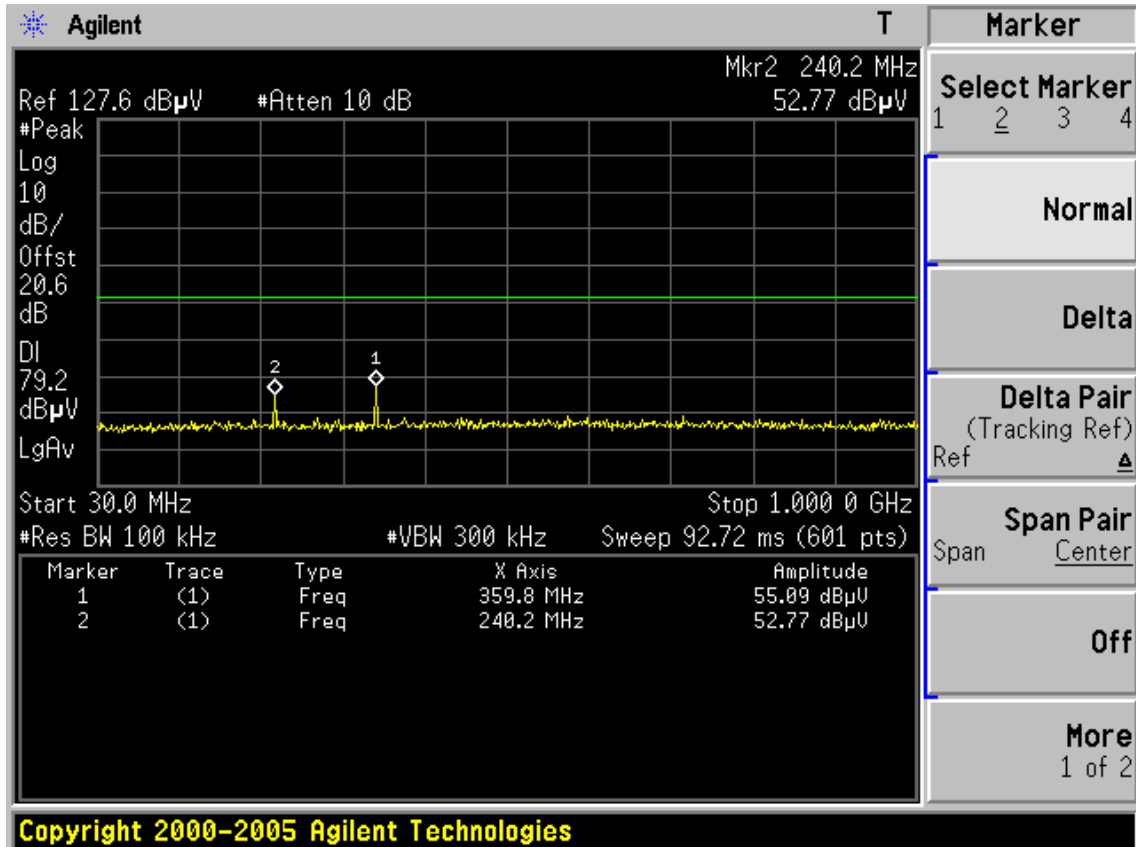
Test CH1: 2412MHz



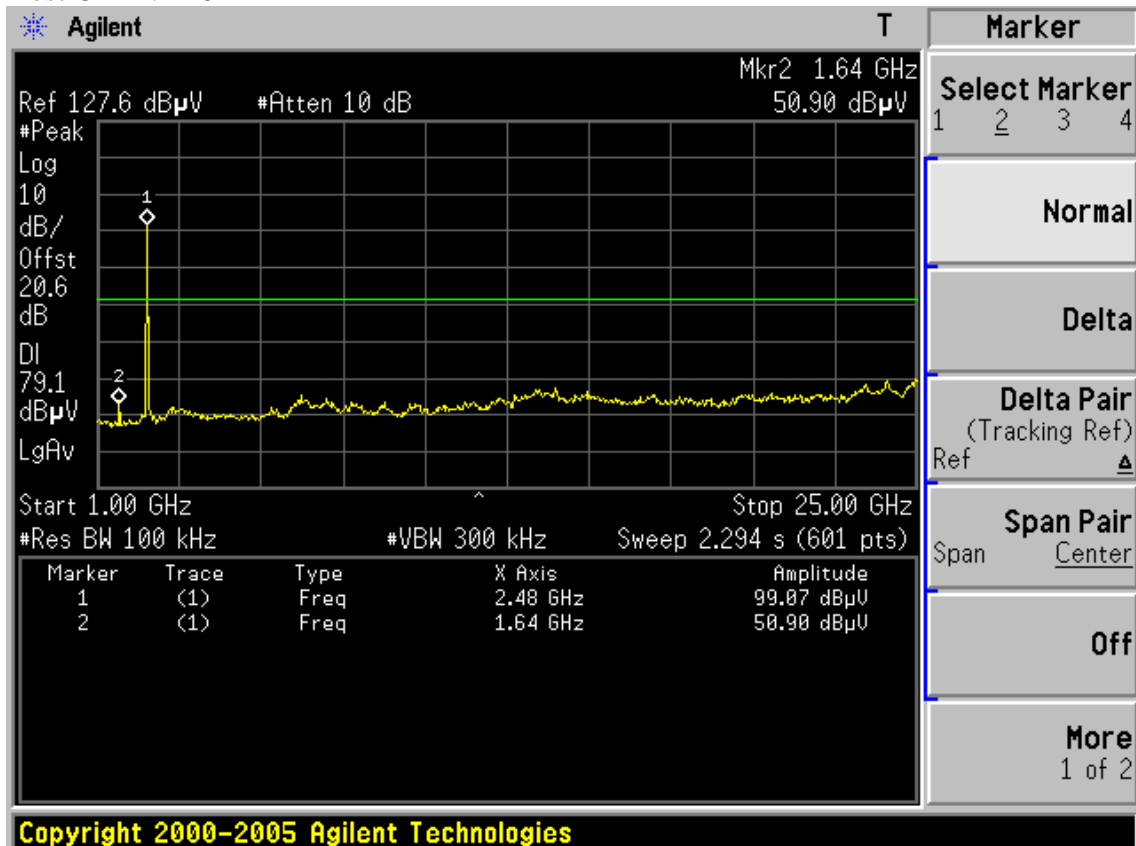


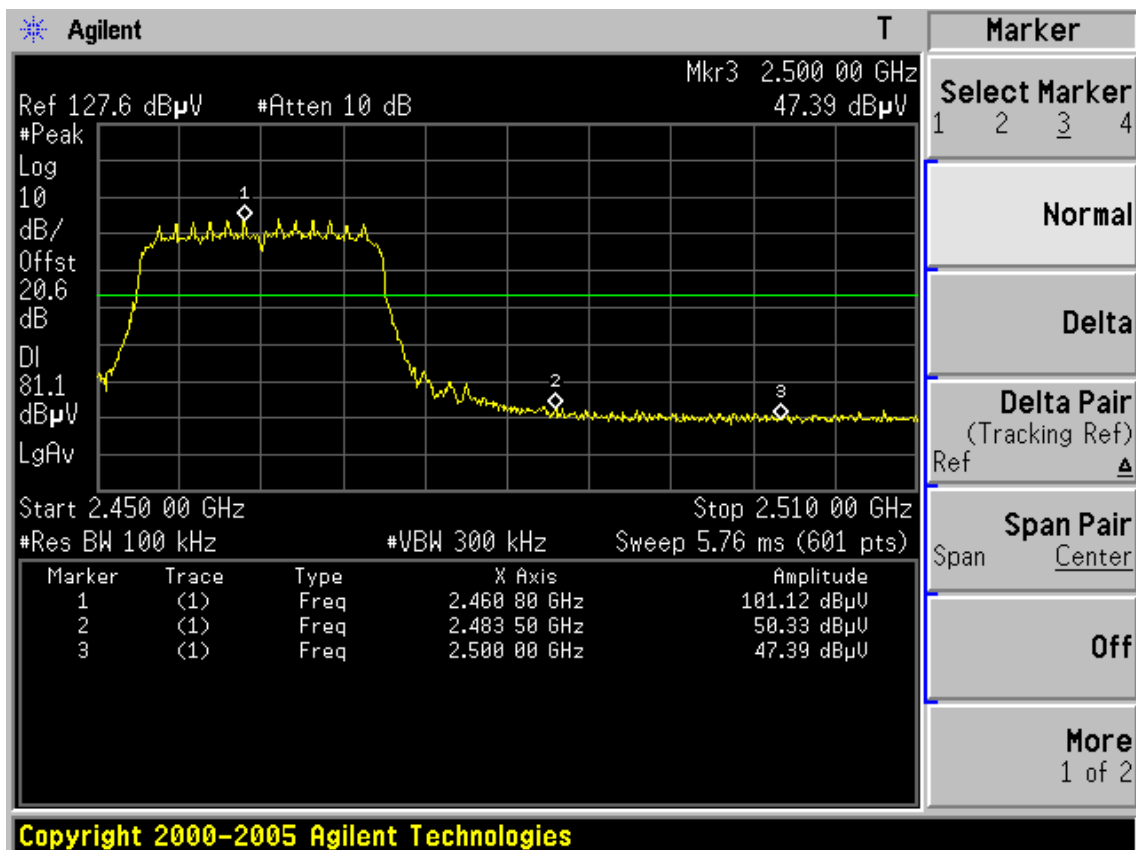
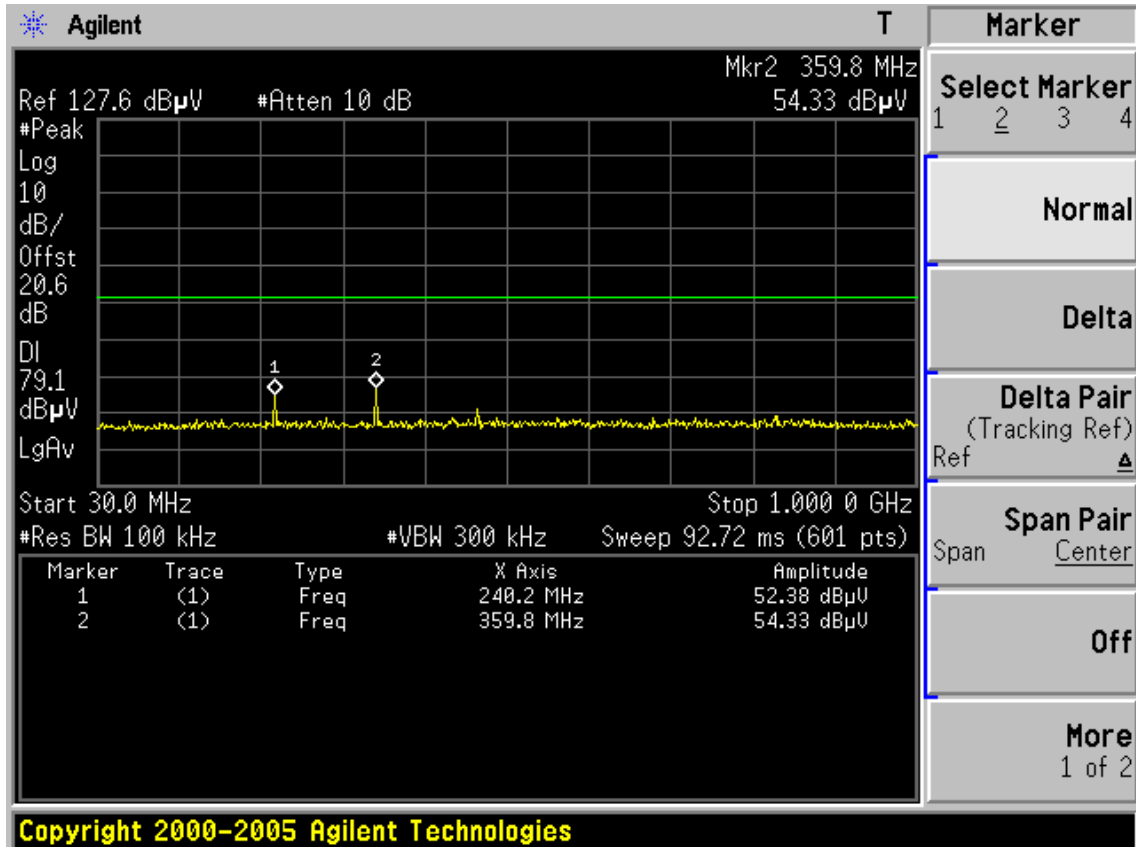
Test CH6: 2437MHz



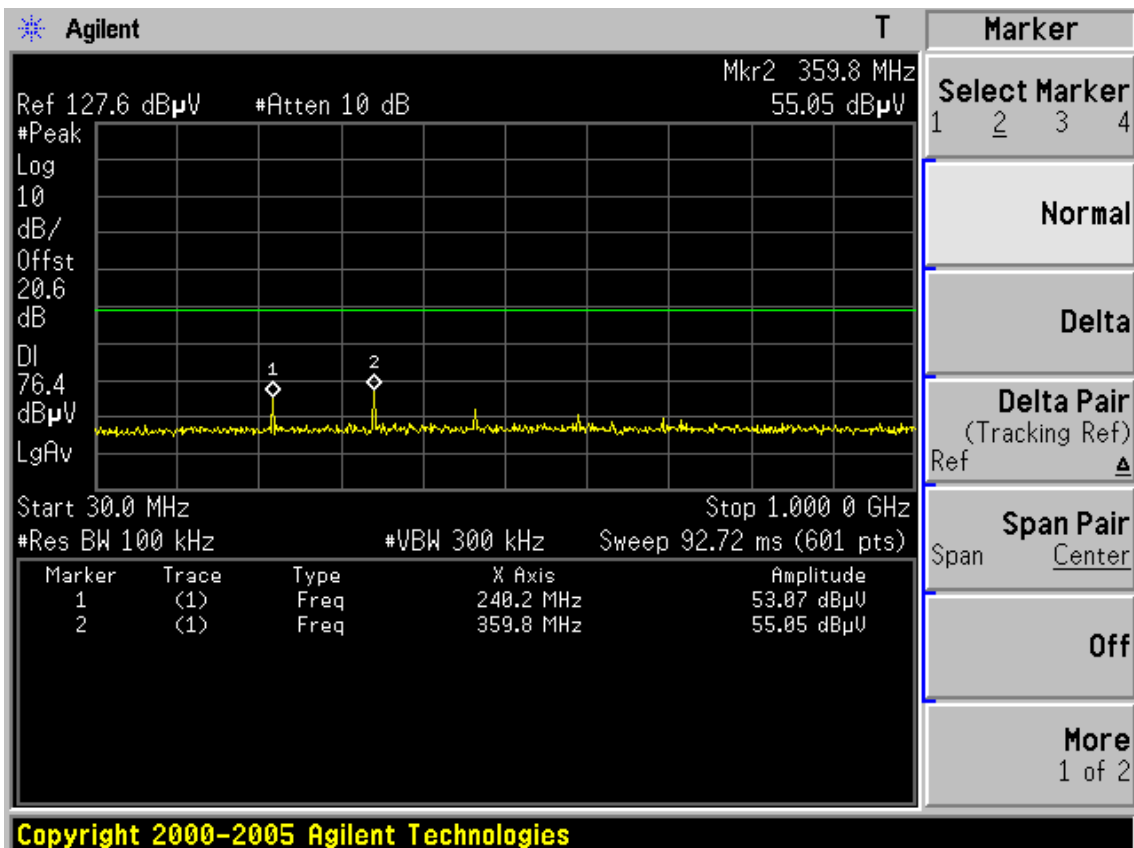
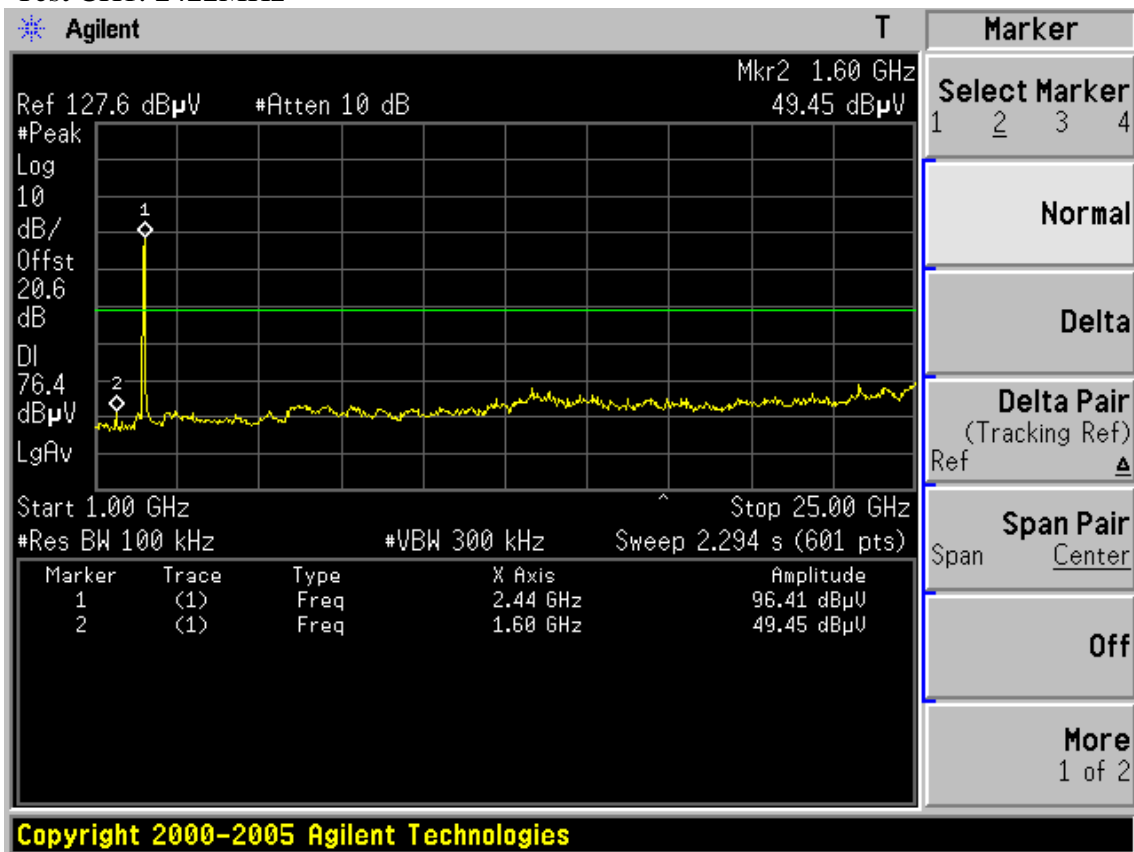


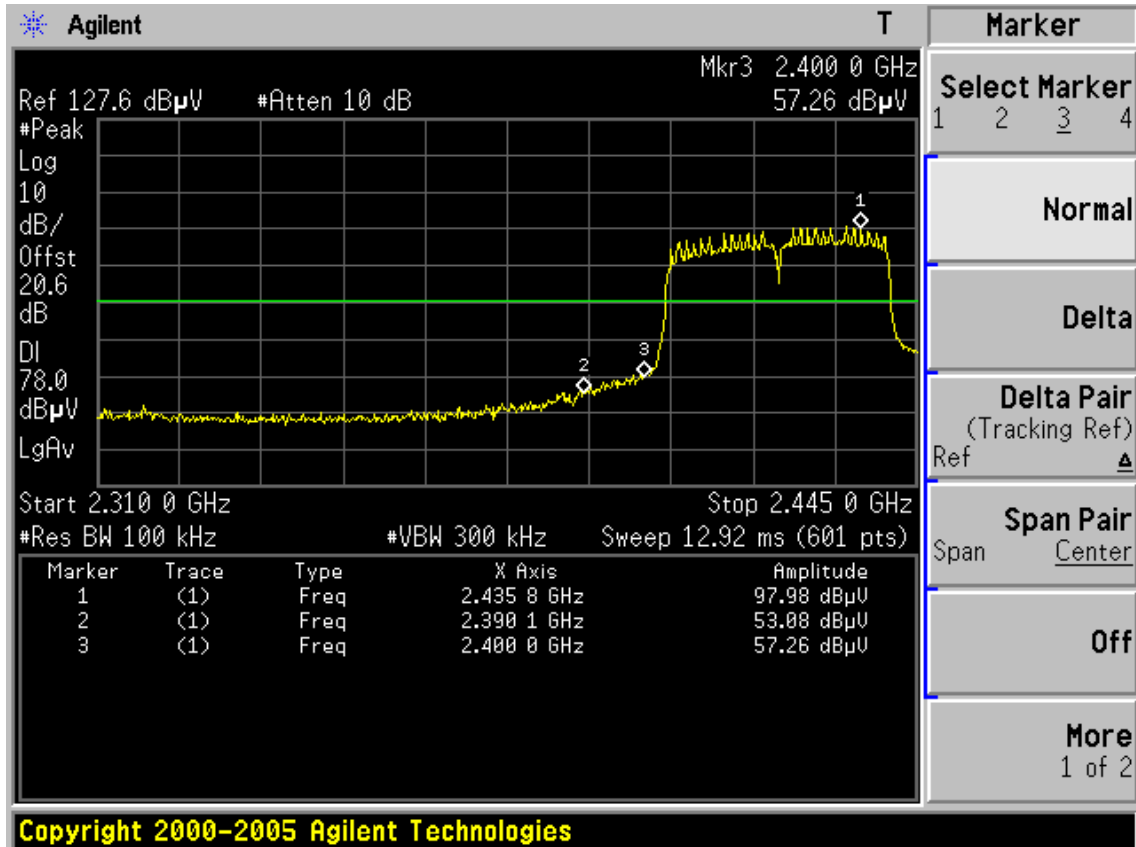
Test CH11: 2462MHz



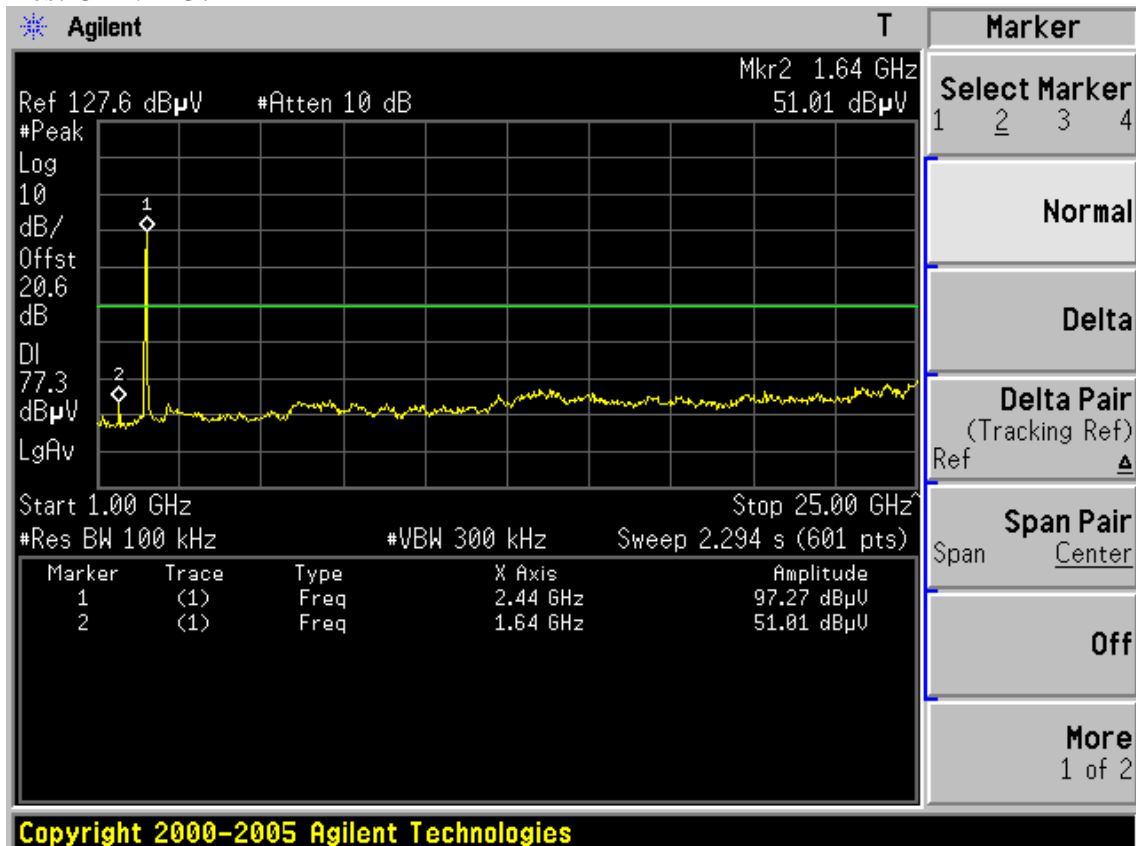


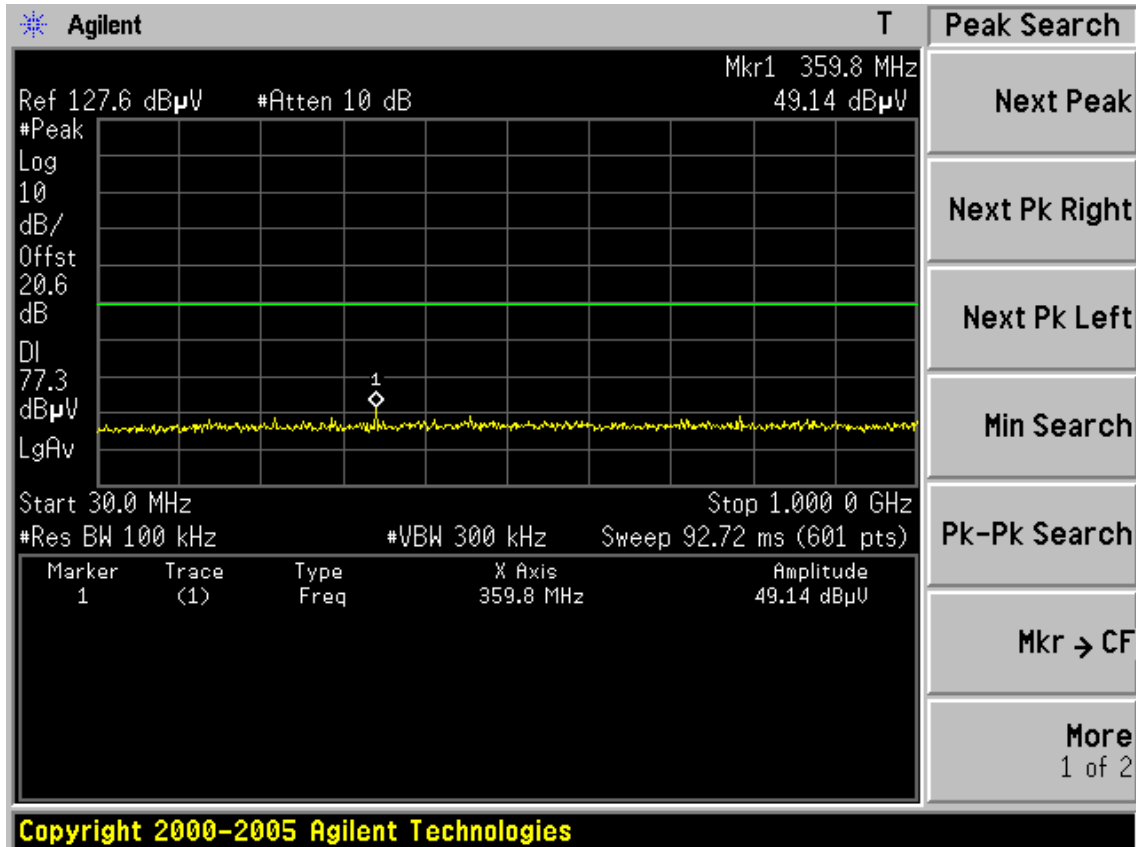
Test Mode: IEEE 802.11n HT40 TX
 Test CH1: 2422MHz



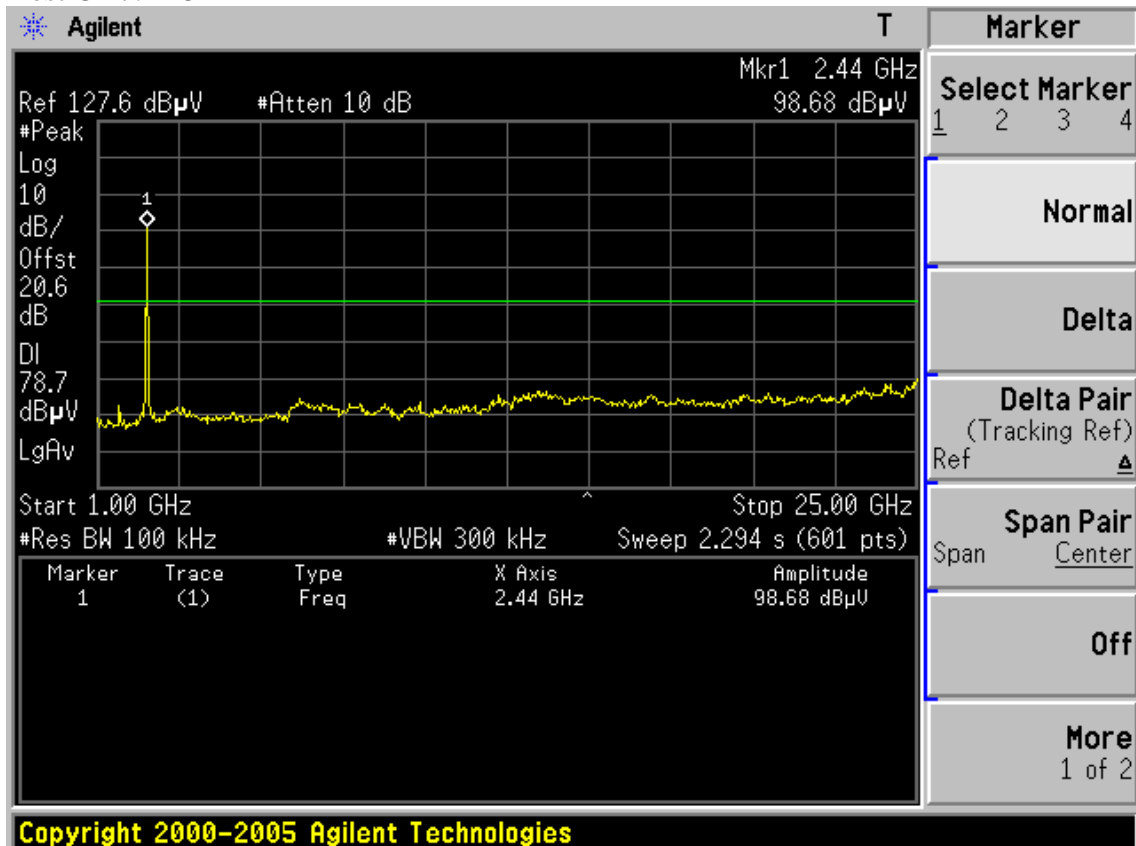


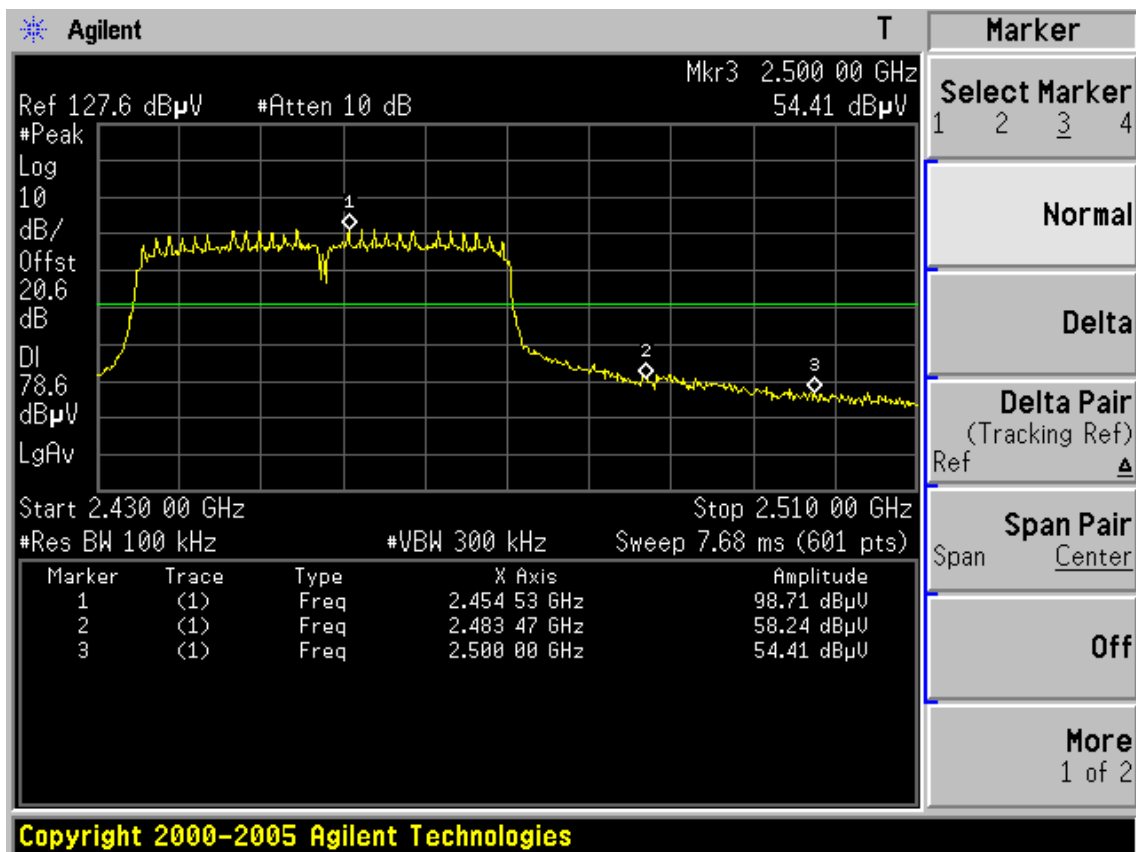
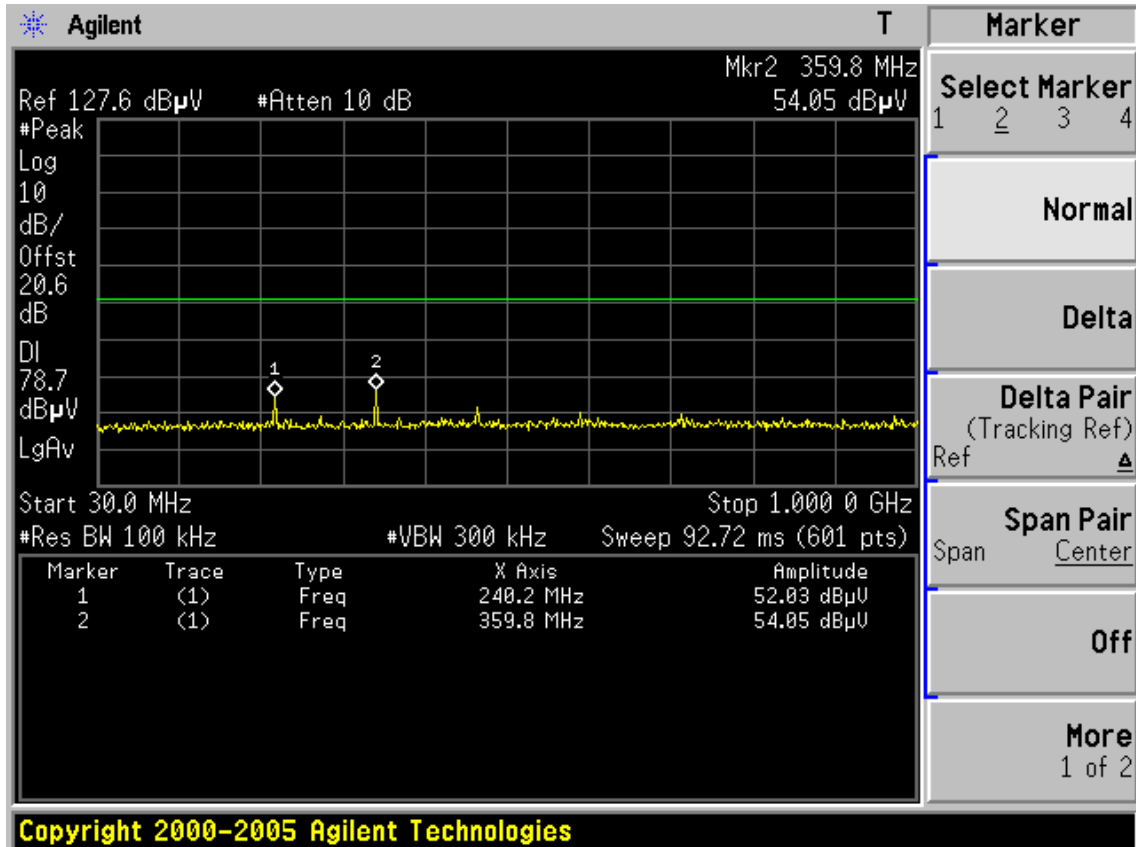
Test CH4: 2437MHz





Test CH7: 2452MHz





6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------|--------------|-----------------|------------|------------|---------------|
| 1. | Spectrum Analyzer | Agilent | E4446A | US44300459 | May.08, 09 | 1 Year |
| 2. | Horn Antenna | EMCO | 3115 | 9607-4877 | Nov.25, 09 | 1.5 Year |
| 3. | Amplifier | Agilent | 8449B | 3008A02495 | May.08, 09 | 1 Year |
| 4. | RF Cable | Hubersuhner | SUCOFLEX 102 | 28620/2 | May.08, 09 | 1 Year |
| 5. | RF Cable | Hubersuhner | SUCOFLEX 102 | 271471/4 | May.08, 09 | 1 Year |
| 6. | RF Cable | Hubersuhner | SUCOFLEX 102 | 29086/2 | May.08, 09 | 1 Year |

6.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

6.3. Test Produce

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
 - (a) PEAK: RBW=1MHz; VBW=3MHz ;Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz ;VBW=10Hz ; Sweep=AUTO

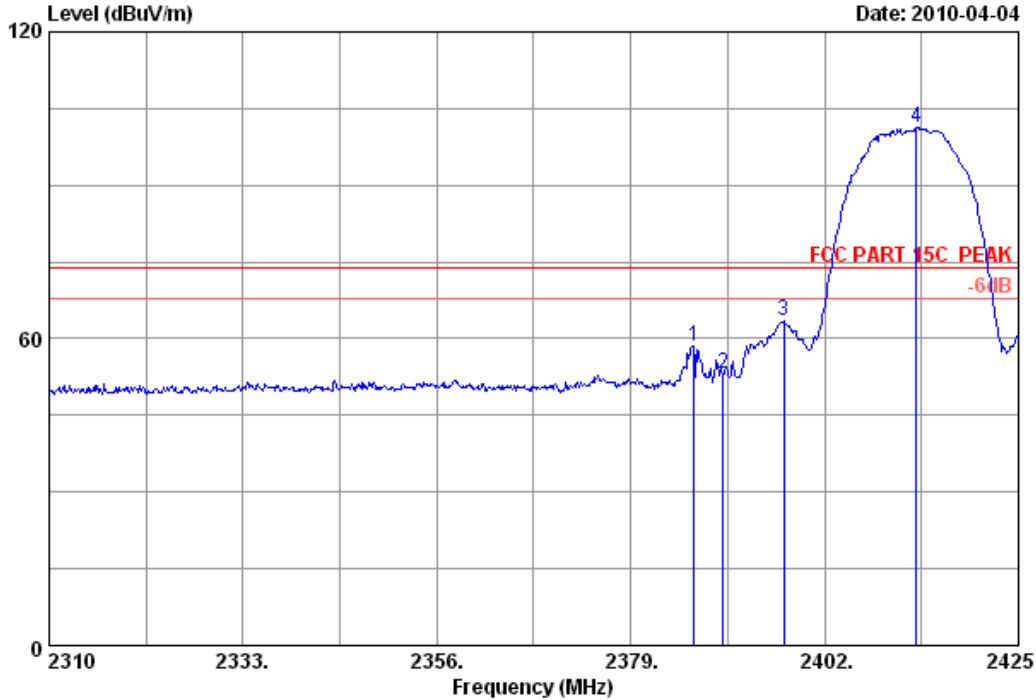
6.4. Test Results

Pass (The testing data was attached in the next pages.)



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Postcode:518057

Data: 3 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH1 2412MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2386.475 | 29.44 | 8.67 | 36.09 | 56.63 | 58.65 | 74.00 | 15.35 | Peak |
| 2 | 2390.000 | 29.44 | 8.67 | 36.09 | 51.14 | 53.16 | 74.00 | 20.84 | Peak |
| 3 | 2397.170 | 29.44 | 8.72 | 36.09 | 61.29 | 63.36 | 74.00 | 10.64 | Peak |
| 4 | 2412.925 | 29.45 | 8.72 | 35.95 | 98.97 | 101.19 | 74.00 | -27.19 | Peak |

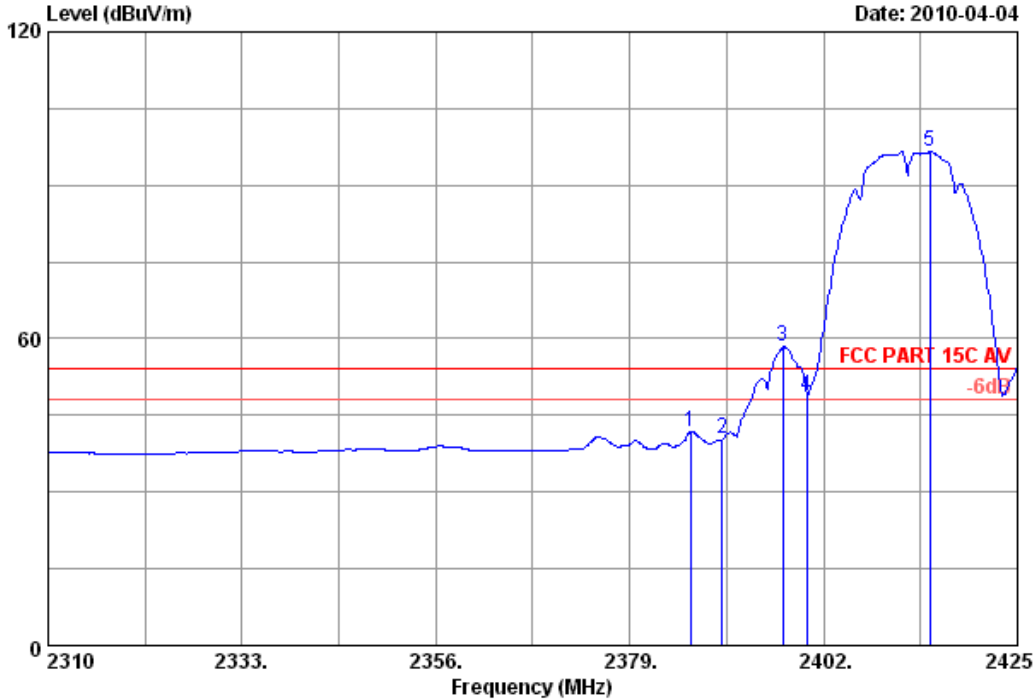
Remarks:

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



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Postcode:518057

Data: 4 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH1 2412MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2386.245 | 29.44 | 8.67 | 36.09 | 39.80 | 41.82 | 54.00 | 12.18 | Average |
| 2 | 2390.000 | 29.44 | 8.67 | 36.09 | 38.31 | 40.33 | 54.00 | 13.67 | Average |
| 3 | 2397.170 | 29.44 | 8.72 | 36.09 | 56.43 | 58.50 | 54.00 | -4.50 | Average |
| 4 | 2400.000 | 29.44 | 8.72 | 36.09 | 46.90 | 48.97 | 54.00 | 5.03 | Average |
| 5 | 2414.650 | 29.45 | 8.72 | 35.95 | 94.29 | 96.51 | 54.00 | -42.51 | Average |

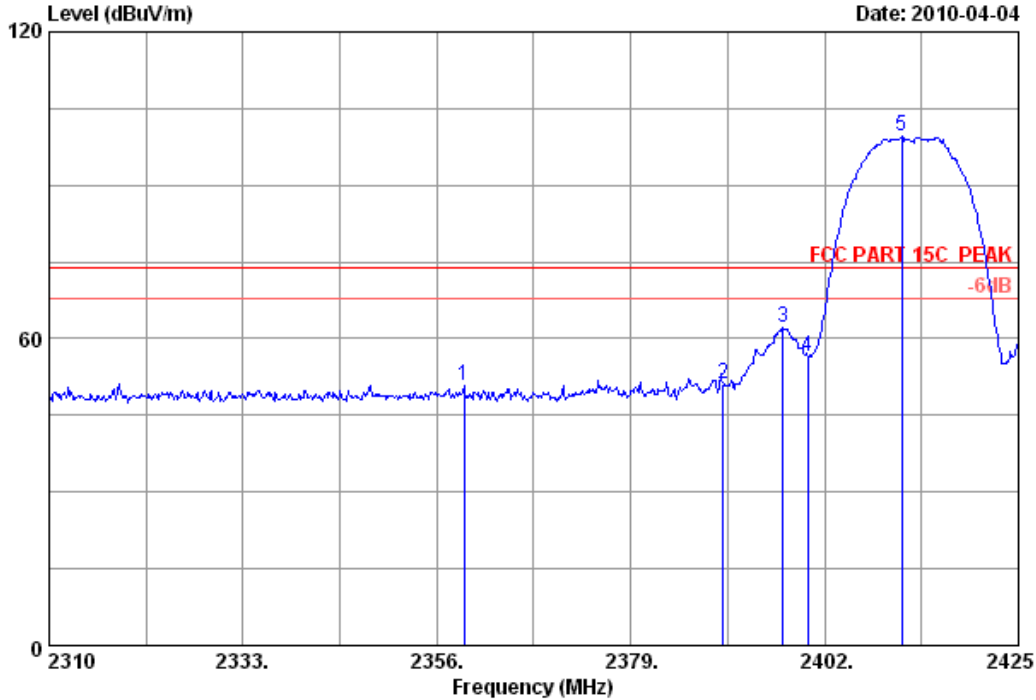
Remarks:

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



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Data: 5 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH1 2412MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2359.220 | 29.42 | 8.62 | 35.91 | 48.66 | 50.79 | 74.00 | 23.21 | Peak |
| 2 | 2390.000 | 29.44 | 8.67 | 36.09 | 49.11 | 51.13 | 74.00 | 22.87 | Peak |
| 3 | 2397.055 | 29.44 | 8.72 | 36.09 | 59.94 | 62.01 | 74.00 | 11.99 | Peak |
| 4 | 2400.000 | 29.44 | 8.72 | 36.09 | 54.39 | 56.46 | 74.00 | 17.54 | Peak |
| 5 | 2411.200 | 29.45 | 8.72 | 35.95 | 97.46 | 99.68 | 74.00 | -25.68 | Peak |

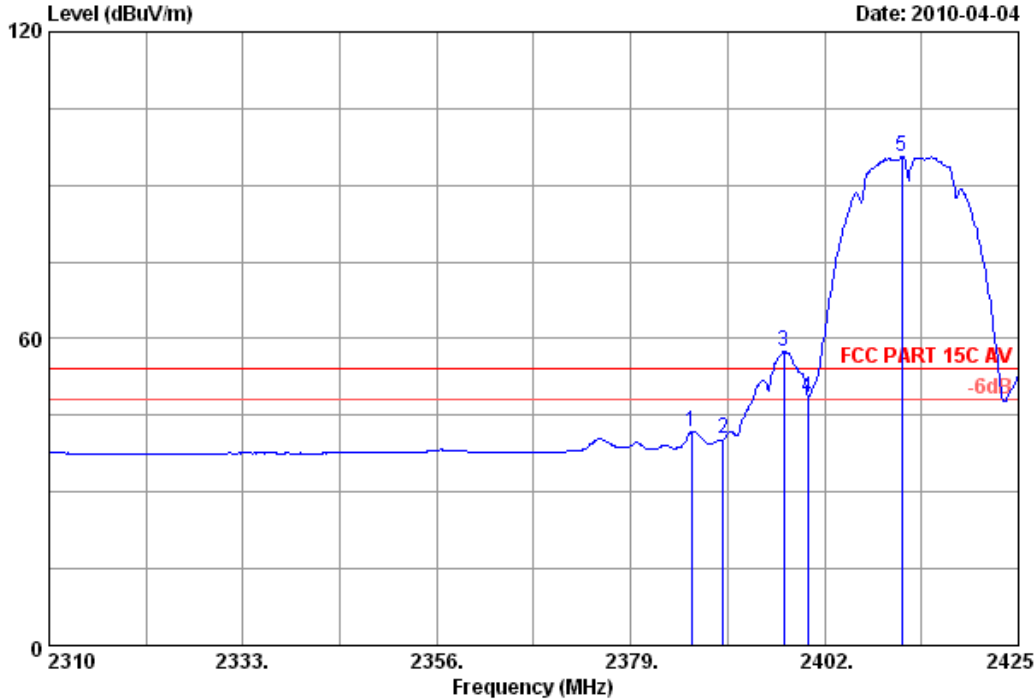
Remarks:

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



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Data: 6 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH1 2412MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2386.245 | 29.44 | 8.67 | 36.09 | 39.85 | 41.87 | 54.00 | 12.13 | Average |
| 2 | 2390.000 | 29.44 | 8.67 | 36.09 | 38.29 | 40.31 | 54.00 | 13.69 | Average |
| 3 | 2397.170 | 29.44 | 8.72 | 36.09 | 55.54 | 57.61 | 54.00 | -3.61 | Average |
| 4 | 2400.000 | 29.44 | 8.72 | 36.09 | 46.28 | 48.35 | 54.00 | 5.65 | Average |
| 5 | 2411.200 | 29.45 | 8.72 | 35.95 | 93.31 | 95.53 | 54.00 | -41.53 | Average |

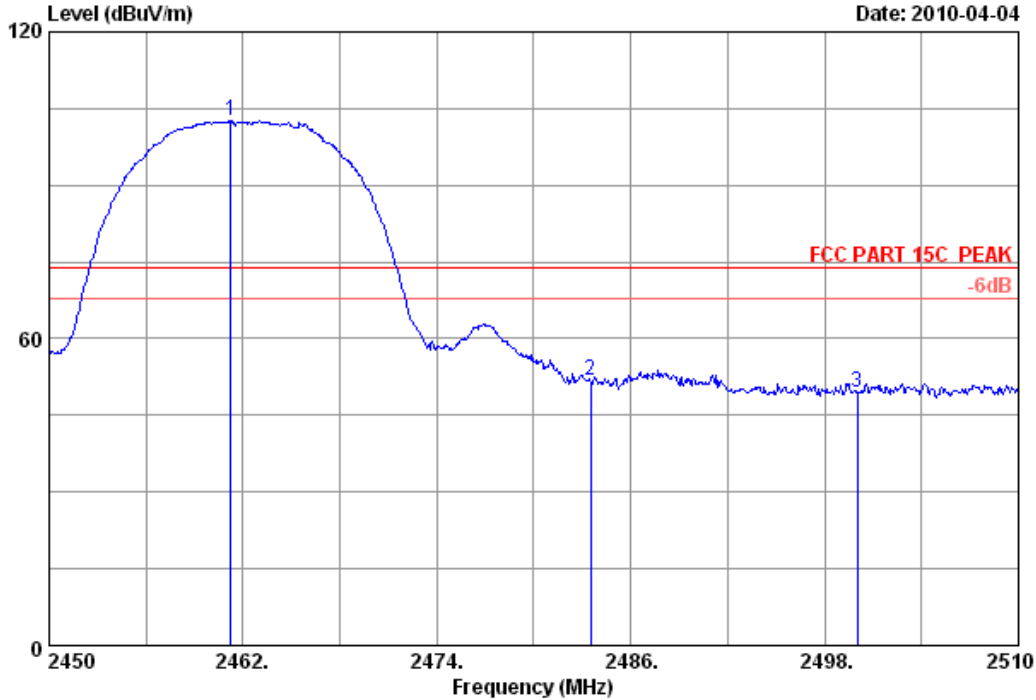
Remarks:

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



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Data: 23 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 23
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH11 2462MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2461.220 | 29.48 | 8.82 | 36.02 | 100.34 | 102.62 | 74.00 | -28.62 | Peak |
| 2 | 2483.500 | 29.49 | 8.87 | 35.97 | 49.34 | 51.73 | 74.00 | 22.27 | Peak |
| 3 | 2500.000 | 29.50 | 8.92 | 36.00 | 47.09 | 49.51 | 74.00 | 24.49 | Peak |

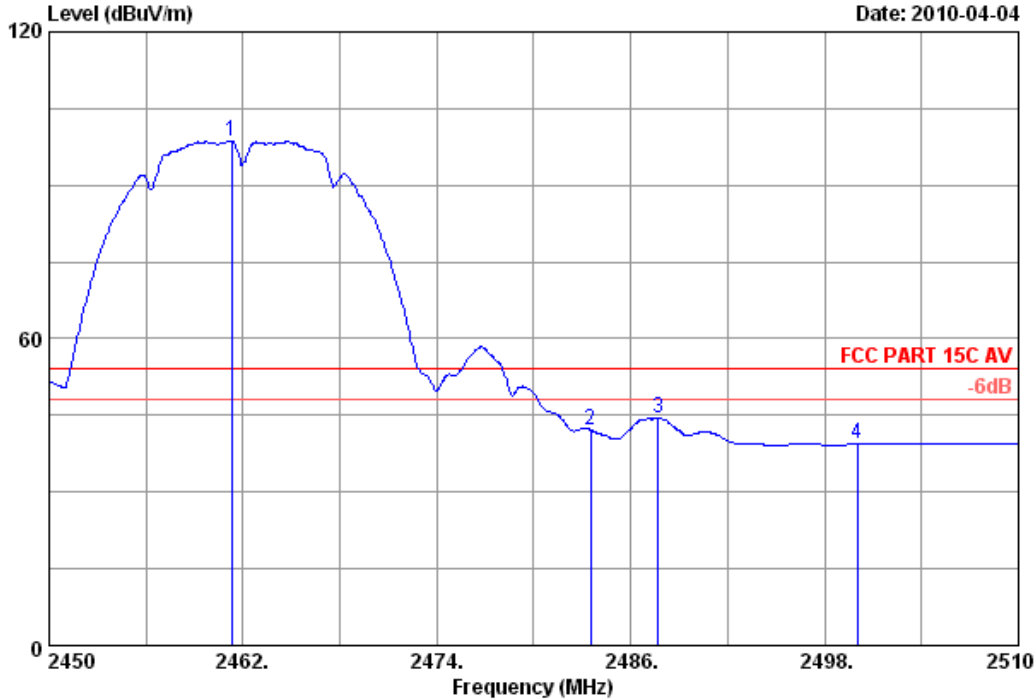
Remarks:

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



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Data: 24 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH11 2462MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2461.280 | 29.48 | 8.82 | 36.02 | 96.40 | 98.68 | 54.00 | -44.68 | Average |
| 2 | 2483.500 | 29.49 | 8.87 | 35.97 | 39.80 | 42.19 | 54.00 | 11.81 | Average |
| 3 | 2487.680 | 29.50 | 8.87 | 36.00 | 42.15 | 44.52 | 54.00 | 9.48 | Average |
| 4 | 2500.000 | 29.50 | 8.92 | 36.00 | 36.87 | 39.29 | 54.00 | 14.71 | Average |

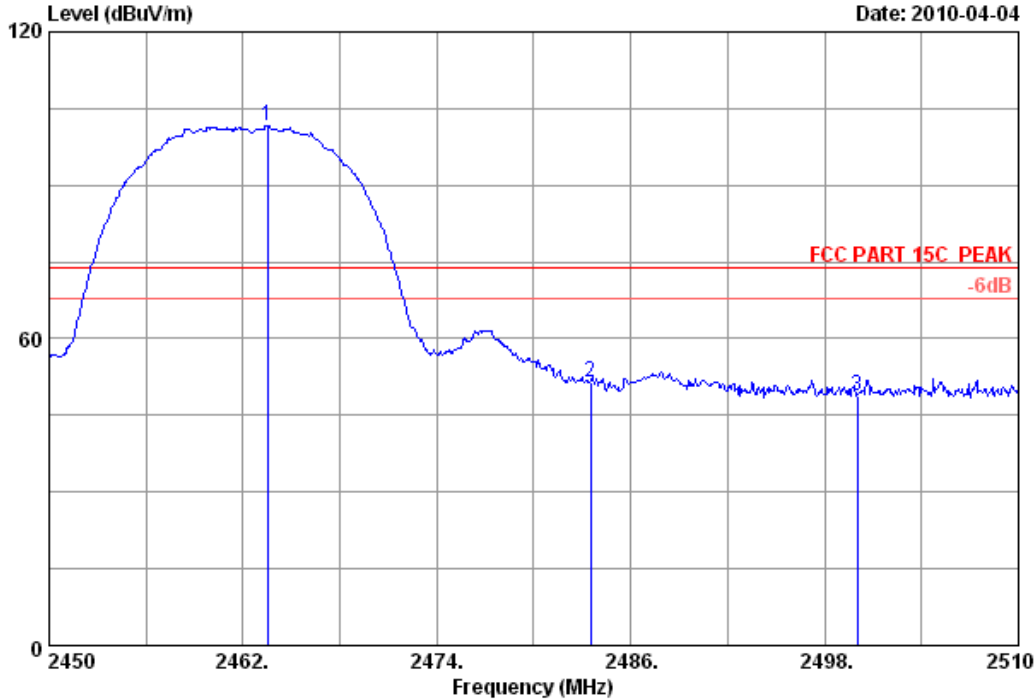
Remarks:

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



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Data: 25 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH11 2462MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2463.500 | 29.48 | 8.82 | 36.02 | 99.43 | 101.71 | 74.00 | -27.71 | Peak |
| 2 | 2483.500 | 29.49 | 8.87 | 35.97 | 49.06 | 51.45 | 74.00 | 22.55 | Peak |
| 3 | 2500.000 | 29.50 | 8.92 | 36.00 | 46.47 | 48.89 | 74.00 | 25.11 | Peak |

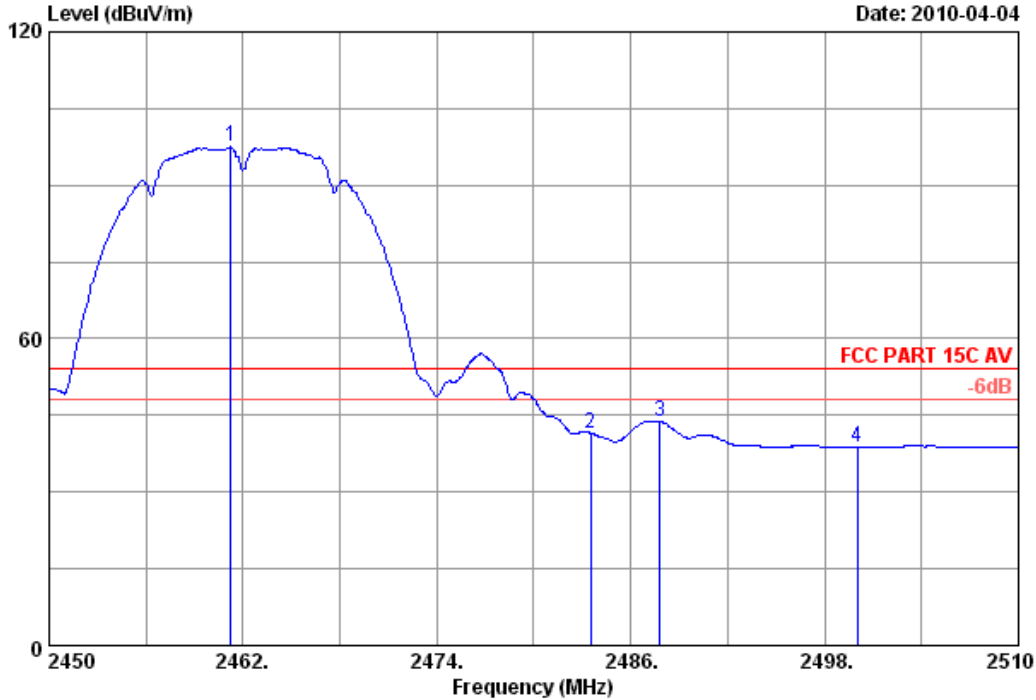
Remarks:

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



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Data: 26 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH11 2462MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2461.220 | 29.48 | 8.82 | 36.02 | 95.20 | 97.48 | 54.00 | -43.48 | Average |
| 2 | 2483.500 | 29.49 | 8.87 | 35.97 | 39.19 | 41.58 | 54.00 | 12.42 | Average |
| 3 | 2487.800 | 29.50 | 8.87 | 36.00 | 41.40 | 43.77 | 54.00 | 10.23 | Average |
| 4 | 2500.000 | 29.50 | 8.92 | 36.00 | 36.47 | 38.89 | 54.00 | 15.11 | Average |

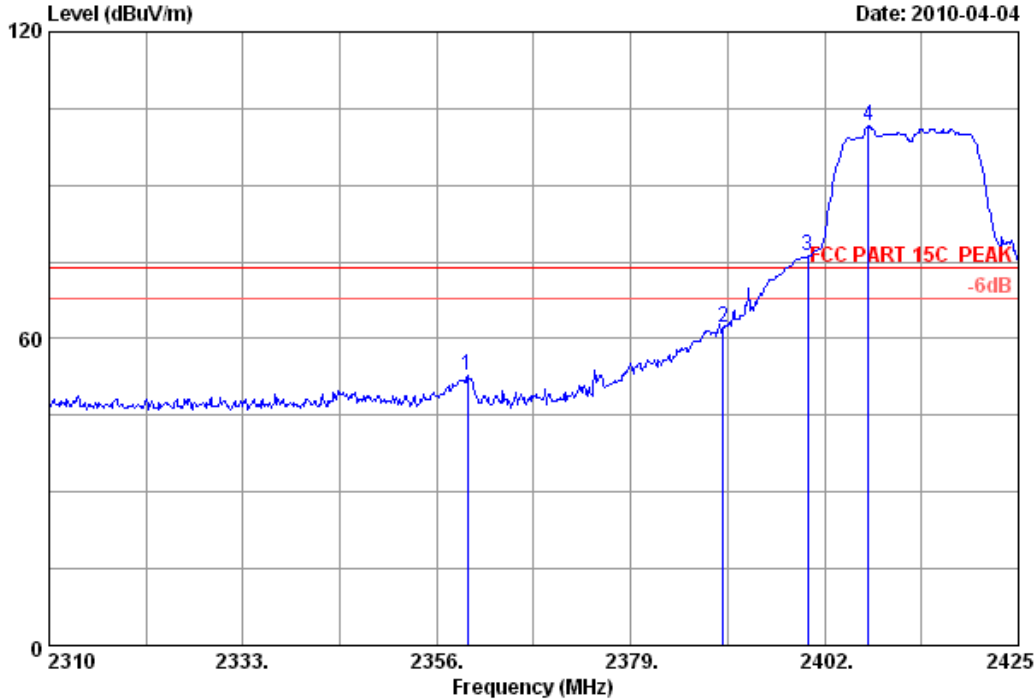
Remarks:

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



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Data: 27 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH1 2412MHz Tx Mode
 M/N :

| | Ant. Freq. (MHz) | Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|---------------|-----------------|------------------|----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2359.680 | 29.42 | 8.62 | 35.91 | 50.53 | 52.66 | 74.00 | 21.34 | Peak |
| 2 | 2390.000 | 29.44 | 8.67 | 36.09 | 60.32 | 62.34 | 74.00 | 11.66 | Peak |
| 3 | 2400.000 | 29.44 | 8.72 | 36.09 | 74.01 | 76.08 | 74.00 | -2.08 | Peak |
| 4 | 2407.175 | 29.45 | 8.72 | 35.95 | 99.33 | 101.55 | 74.00 | -27.55 | Peak |

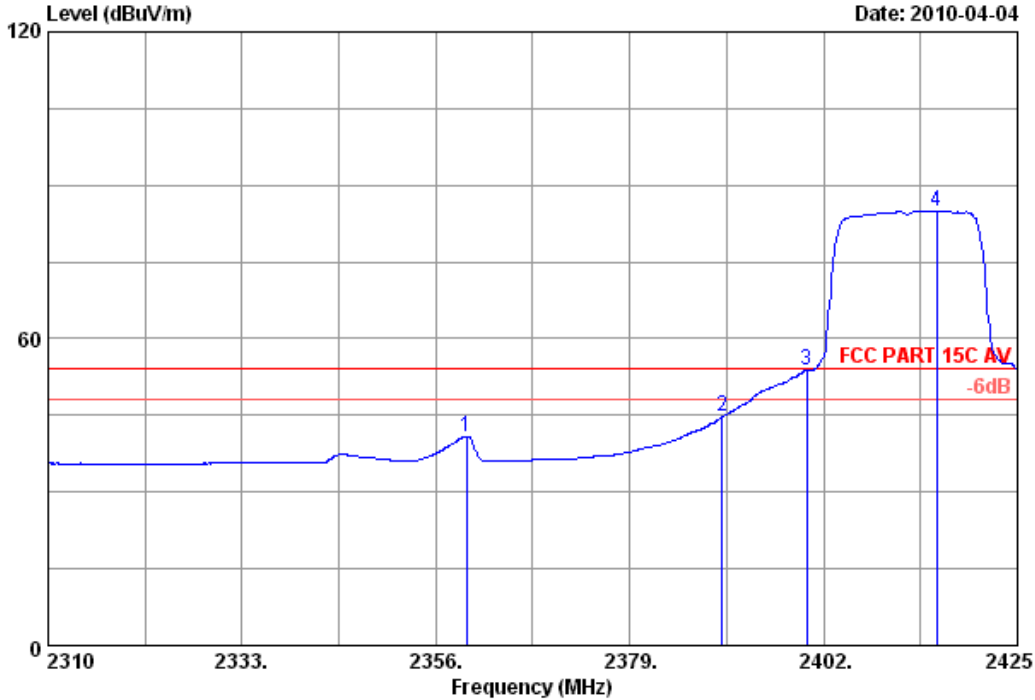
Remarks:

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



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Data: 28 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH1 2412MHz Tx Mode
 M/N :

| | Ant. Freq. (MHz) | Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|---------------|-----------------|------------------|----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2359.680 | 29.42 | 8.62 | 35.91 | 38.76 | 40.89 | 54.00 | 13.11 | Average |
| 2 | 2390.000 | 29.44 | 8.67 | 36.09 | 42.72 | 44.74 | 54.00 | 9.26 | Average |
| 3 | 2400.000 | 29.44 | 8.72 | 36.09 | 51.74 | 53.81 | 54.00 | 0.19 | Average |
| 4 | 2415.455 | 29.45 | 8.72 | 35.95 | 82.77 | 84.99 | 54.00 | -30.99 | Average |

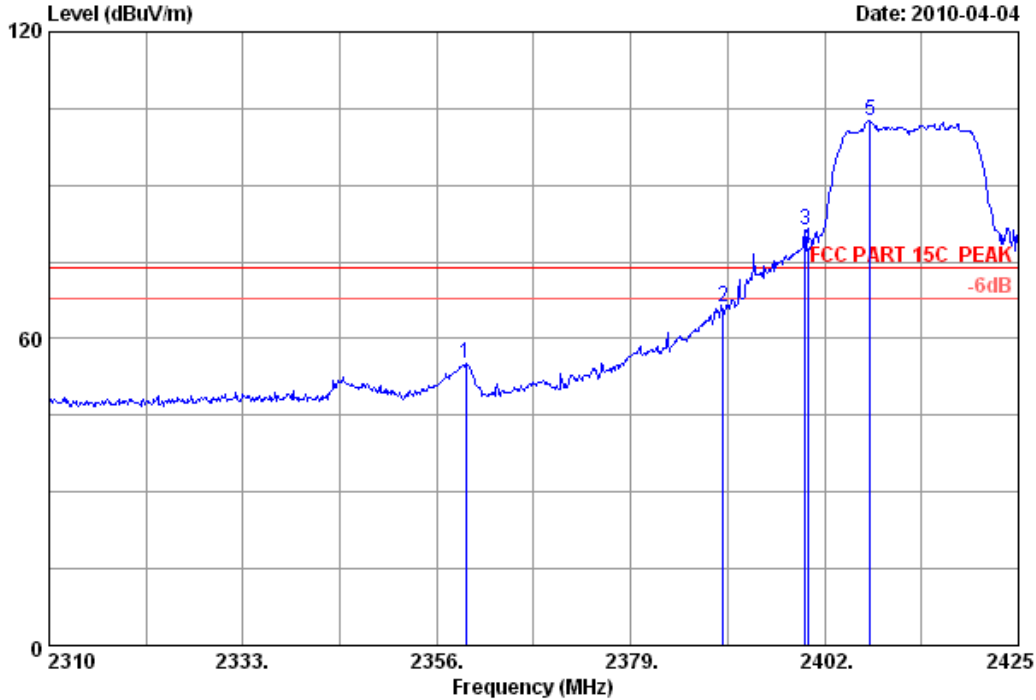
Remarks:

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



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Data: 29 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH1 2412MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2359.450 | 29.42 | 8.62 | 35.91 | 53.04 | 55.17 | 74.00 | 18.83 | Peak |
| 2 | 2390.000 | 29.44 | 8.67 | 36.09 | 64.07 | 66.09 | 74.00 | 7.91 | Peak |
| 3 | 2399.700 | 29.44 | 8.72 | 36.09 | 79.28 | 81.35 | 74.00 | -7.35 | Peak |
| 4 | 2400.000 | 29.44 | 8.72 | 36.09 | 75.32 | 77.39 | 74.00 | -3.39 | Peak |
| 5 | 2407.405 | 29.45 | 8.72 | 35.95 | 100.38 | 102.60 | 74.00 | -28.60 | Peak |

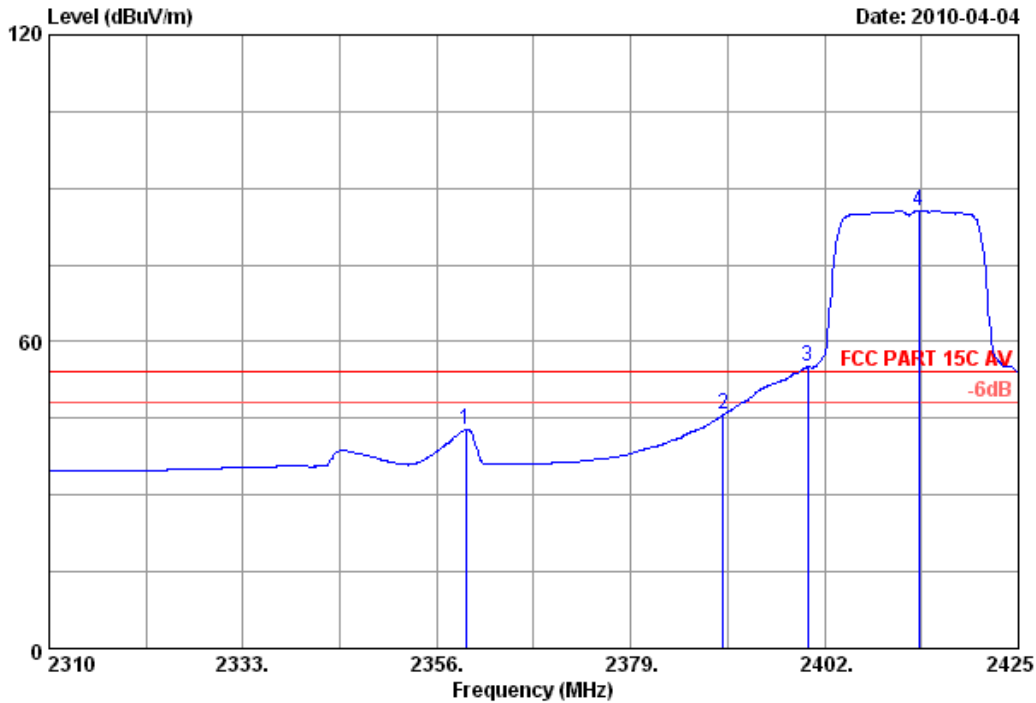
Remarks:

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



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Data: 30 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH1 2412MHz Tx Mode
 M/N :

| | Ant. Freq. (MHz) | Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|---------------|-----------------|------------------|----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2359.450 | 29.42 | 8.62 | 35.91 | 40.66 | 42.79 | 54.00 | 11.21 | Average |
| 2 | 2390.000 | 29.44 | 8.67 | 36.09 | 43.73 | 45.75 | 54.00 | 8.25 | Average |
| 3 | 2400.000 | 29.44 | 8.72 | 36.09 | 52.94 | 55.01 | 54.00 | -1.01 | Average |
| 4 | 2413.155 | 29.45 | 8.72 | 35.95 | 83.33 | 85.55 | 54.00 | -31.55 | Average |

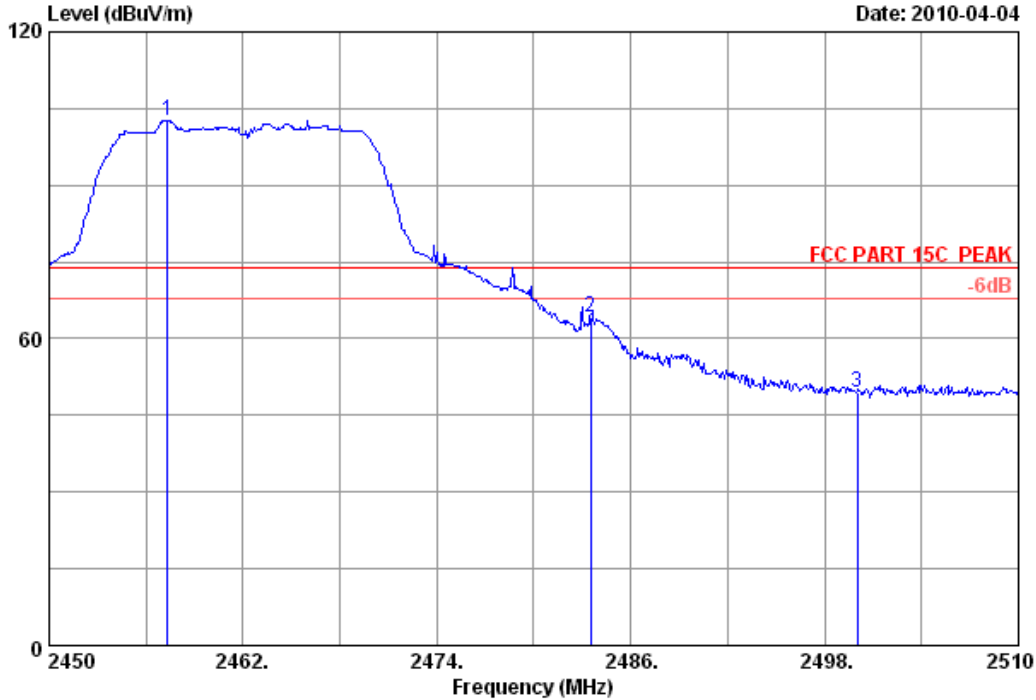
Remarks:

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



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Data: 45 File: E:\2010 report data\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 45
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH11 2462MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2457.320 | 29.48 | 8.82 | 36.02 | 100.42 | 102.70 | 74.00 | -28.70 | Peak |
| 2 | 2483.500 | 29.49 | 8.87 | 35.97 | 61.65 | 64.04 | 74.00 | 9.96 | Peak |
| 3 | 2500.000 | 29.50 | 8.92 | 36.00 | 47.13 | 49.55 | 74.00 | 24.45 | Peak |

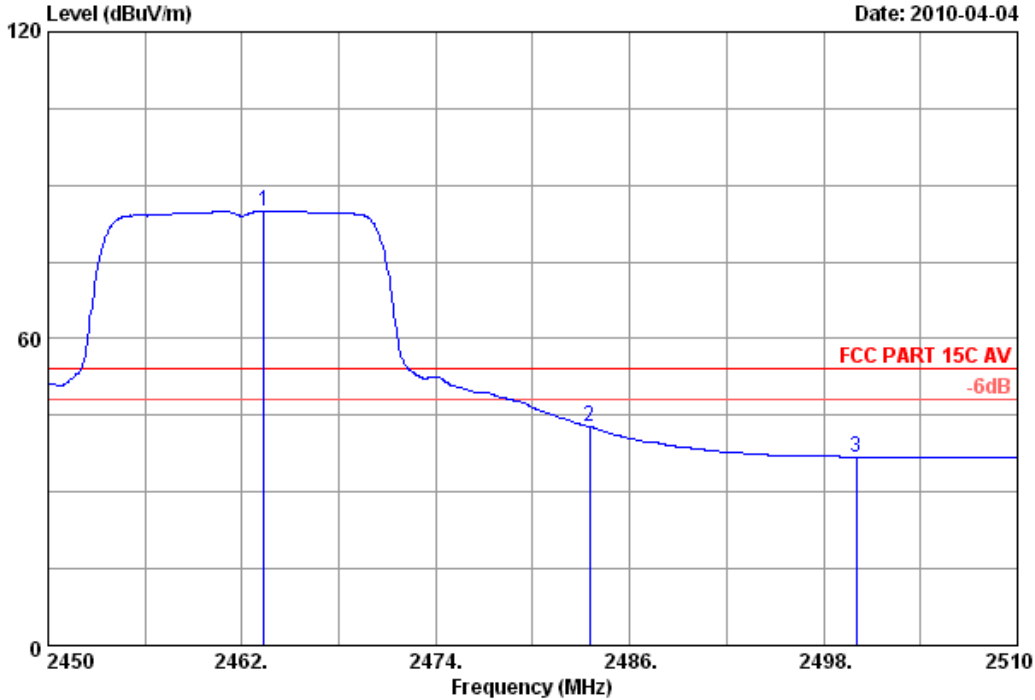
Remarks:

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



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Data: 46 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 46
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH11 2462MHz Tx Mode
 M/N :

| | Ant. Freq. (MHz) | Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|---------------|-----------------|------------------|----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2463.380 | 29.48 | 8.82 | 36.02 | 82.60 | 84.88 | 54.00 | -30.88 | Average |
| 2 | 2483.500 | 29.49 | 8.87 | 35.97 | 40.43 | 42.82 | 54.00 | 11.18 | Average |
| 3 | 2500.000 | 29.50 | 8.92 | 36.00 | 34.43 | 36.85 | 54.00 | 17.15 | Average |

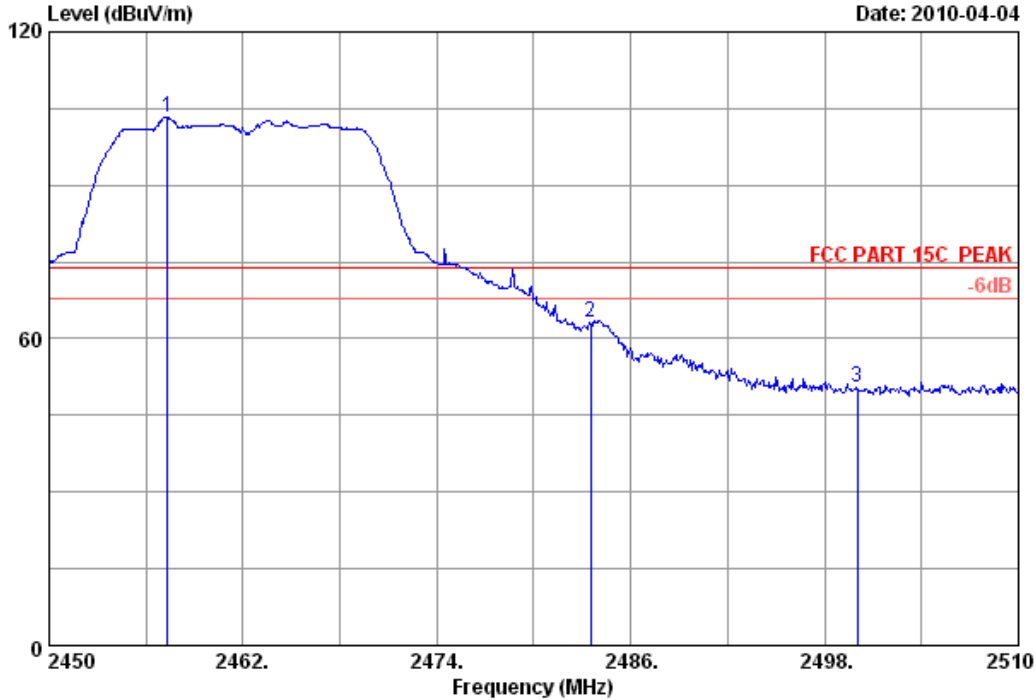
Remarks:

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



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Data: 47 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 47
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH11 2462MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2457.320 | 29.48 | 8.82 | 36.02 | 101.03 | 103.31 | 74.00 | -29.31 | Peak |
| 2 | 2483.500 | 29.49 | 8.87 | 35.97 | 60.67 | 63.06 | 74.00 | 10.94 | Peak |
| 3 | 2500.000 | 29.50 | 8.92 | 36.00 | 48.04 | 50.46 | 74.00 | 23.54 | Peak |

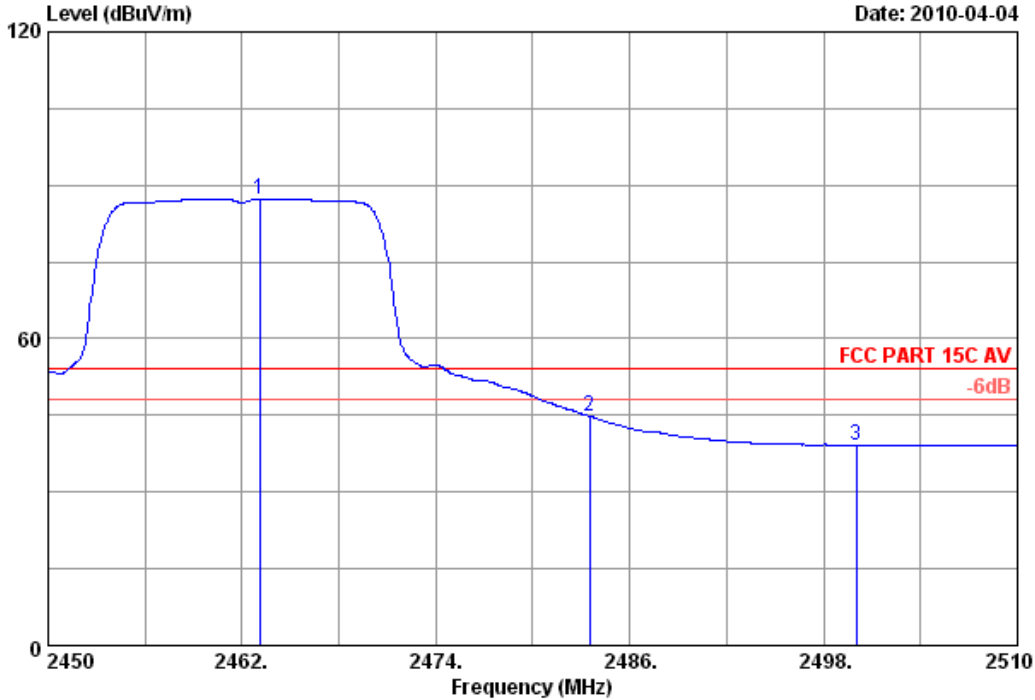
Remarks:

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



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Site no. : 3m Chamber Data no. : 48
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH11 2462MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2463.080 | 29.48 | 8.82 | 36.02 | 85.07 | 87.35 | 54.00 | -33.35 | Average |
| 2 | 2483.500 | 29.49 | 8.87 | 35.97 | 42.49 | 44.88 | 54.00 | 9.12 | Average |
| 3 | 2500.000 | 29.50 | 8.92 | 36.00 | 36.65 | 39.07 | 54.00 | 14.93 | Average |

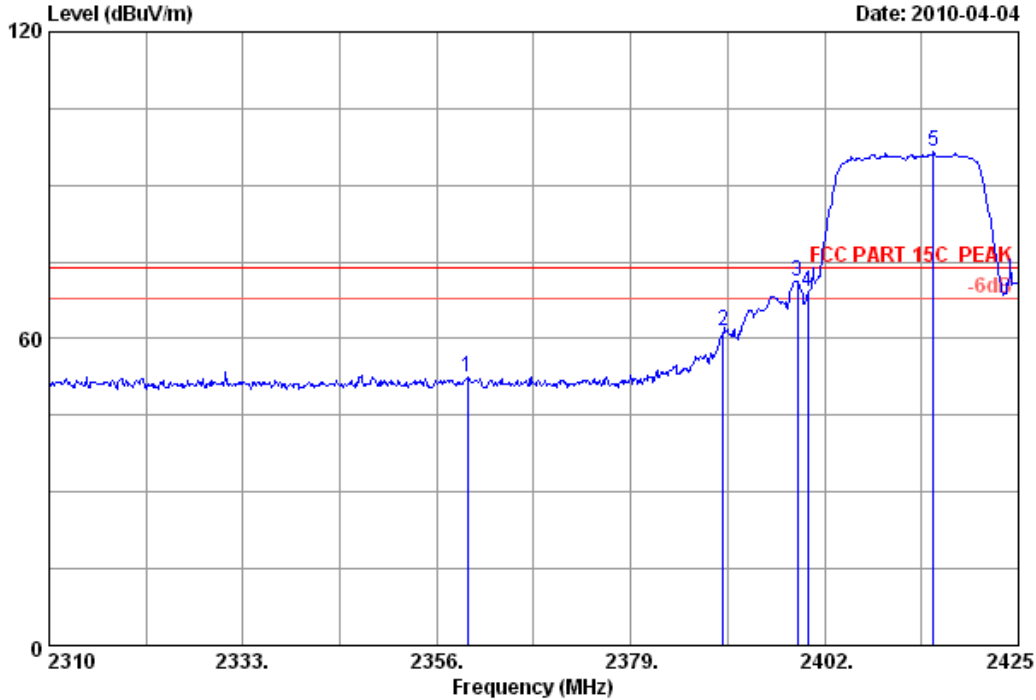
Remarks:

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



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Data: 59 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 59
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH1 2412MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2359.680 | 29.42 | 8.62 | 35.91 | 50.43 | 52.56 | 74.00 | 21.44 | Peak |
| 2 | 2390.000 | 29.44 | 8.67 | 36.09 | 59.44 | 61.46 | 74.00 | 12.54 | Peak |
| 3 | 2398.780 | 29.44 | 8.72 | 36.09 | 69.23 | 71.30 | 74.00 | 2.70 | Peak |
| 4 | 2400.000 | 29.44 | 8.72 | 36.09 | 67.07 | 69.14 | 74.00 | 4.86 | Peak |
| 5 | 2414.880 | 29.45 | 8.72 | 35.95 | 94.28 | 96.50 | 74.00 | -22.50 | Peak |

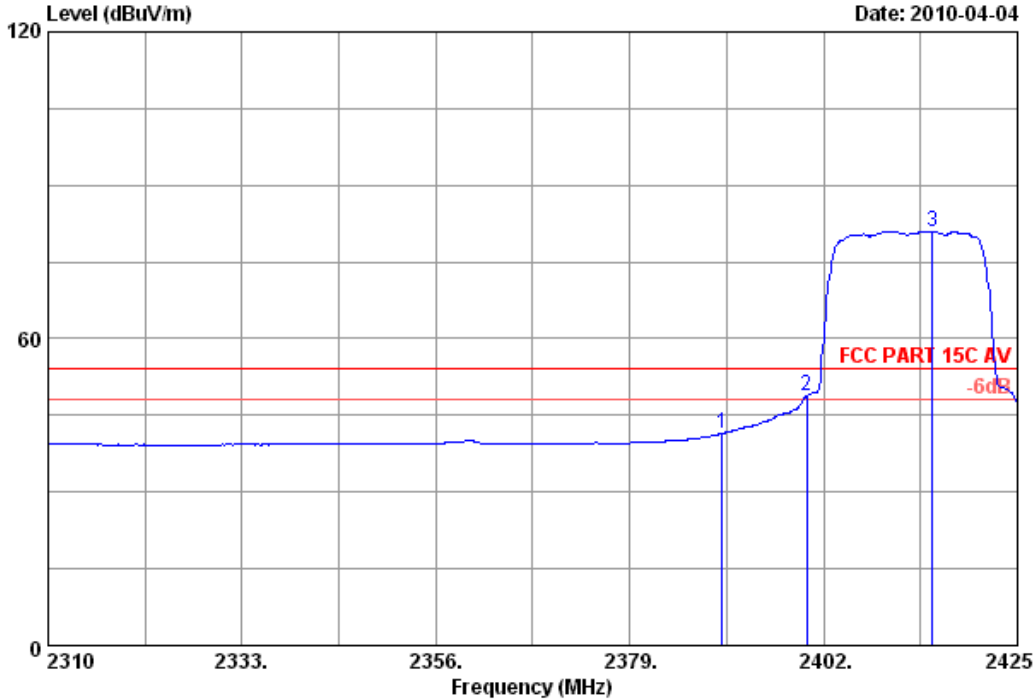
Remarks:

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



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Data: 60 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 60
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH1 2412MHz Tx Mode
 M/N :

| | Ant. Freq. (MHz) | Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|---------------|-----------------|------------------|----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2390.000 | 29.44 | 8.67 | 36.09 | 39.44 | 41.46 | 54.00 | 12.54 | Average |
| 2 | 2400.000 | 29.44 | 8.72 | 36.09 | 46.84 | 48.91 | 54.00 | 5.09 | Average |
| 3 | 2414.880 | 29.45 | 8.72 | 35.95 | 78.82 | 81.04 | 54.00 | -27.04 | Average |

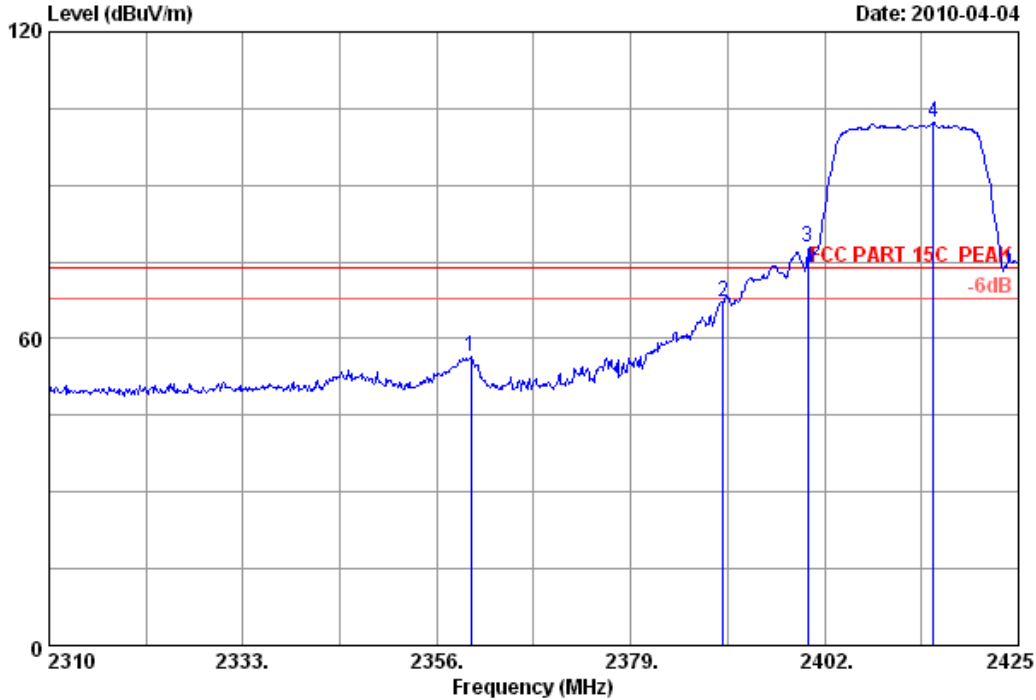
Remarks:

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



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Data: 61 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 61
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH1 2412MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2360.025 | 29.42 | 8.62 | 35.91 | 54.27 | 56.40 | 74.00 | 17.60 | Peak |
| 2 | 2390.000 | 29.44 | 8.67 | 36.09 | 65.19 | 67.21 | 74.00 | 6.79 | Peak |
| 3 | 2400.000 | 29.44 | 8.72 | 36.09 | 75.75 | 77.82 | 74.00 | -3.82 | Peak |
| 4 | 2414.880 | 29.45 | 8.72 | 35.95 | 100.00 | 102.22 | 74.00 | -28.22 | Peak |

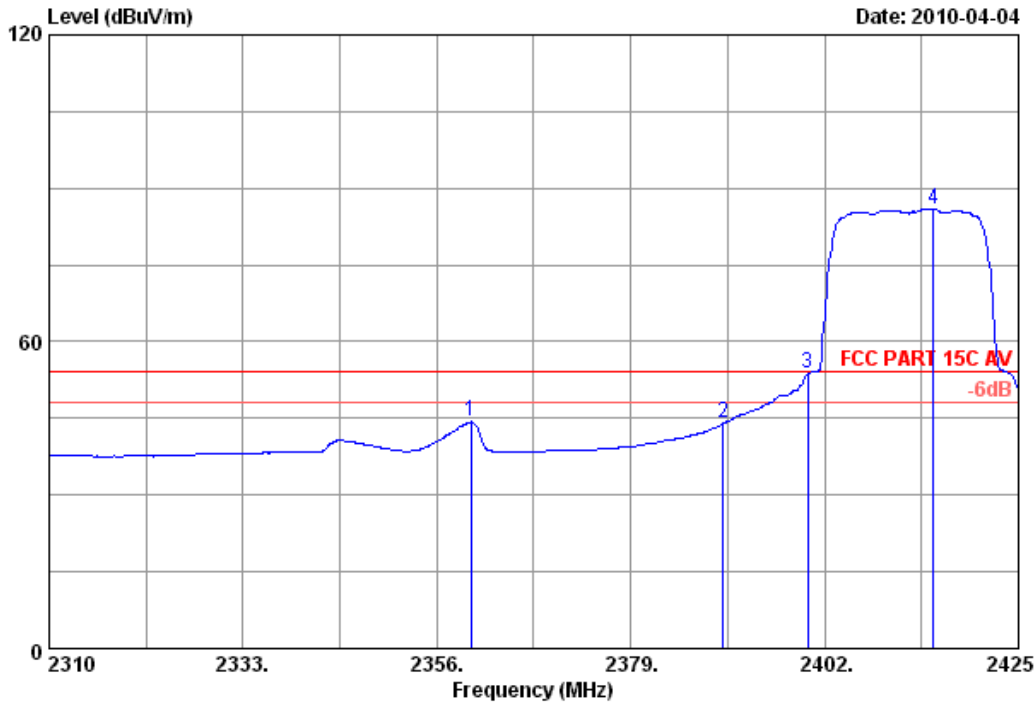
Remarks:

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



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Data: 62 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 62
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH1 2412MHz Tx Mode
 M/N :

| | Ant. Freq. (MHz) | Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|---------------|-----------------|------------------|----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2360.025 | 29.42 | 8.62 | 35.91 | 42.16 | 44.29 | 54.00 | 9.71 | Average |
| 2 | 2390.000 | 29.44 | 8.67 | 36.09 | 42.03 | 44.05 | 54.00 | 9.95 | Average |
| 3 | 2400.000 | 29.44 | 8.72 | 36.09 | 51.72 | 53.79 | 54.00 | 0.21 | Average |
| 4 | 2414.880 | 29.45 | 8.72 | 35.95 | 83.60 | 85.82 | 54.00 | -31.82 | Average |

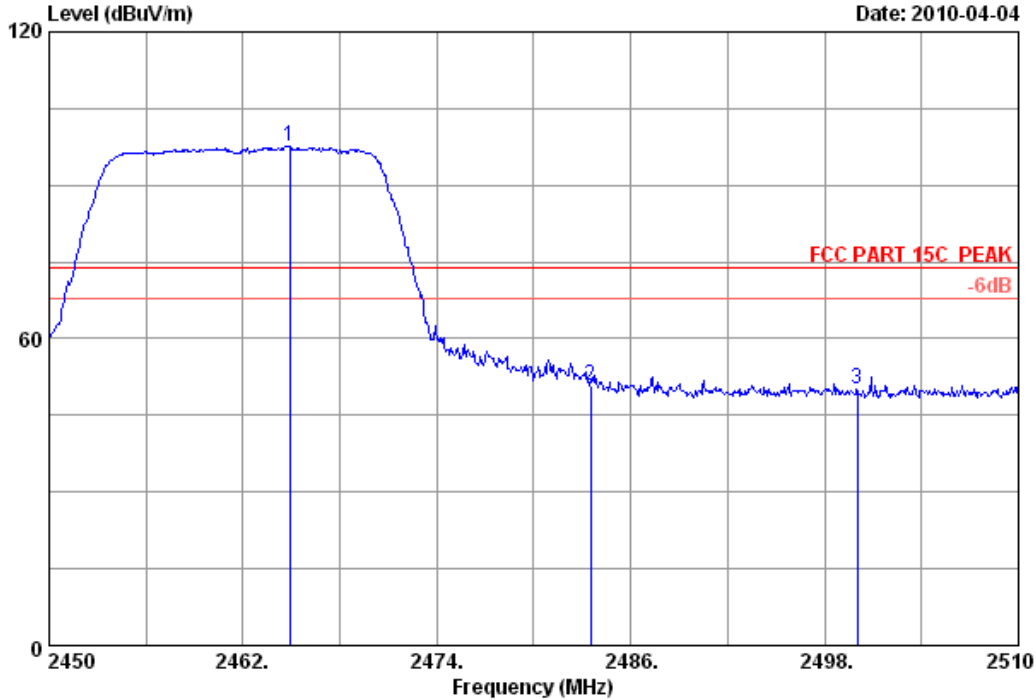
Remarks:

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



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Data: 75 File: E:\2010 report data\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 75
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH11 2462MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2464.880 | 29.48 | 8.82 | 36.02 | 95.30 | 97.58 | 74.00 | -23.58 | Peak |
| 2 | 2483.500 | 29.49 | 8.87 | 35.97 | 48.40 | 50.79 | 74.00 | 23.21 | Peak |
| 3 | 2500.000 | 29.50 | 8.92 | 36.00 | 47.57 | 49.99 | 74.00 | 24.01 | Peak |

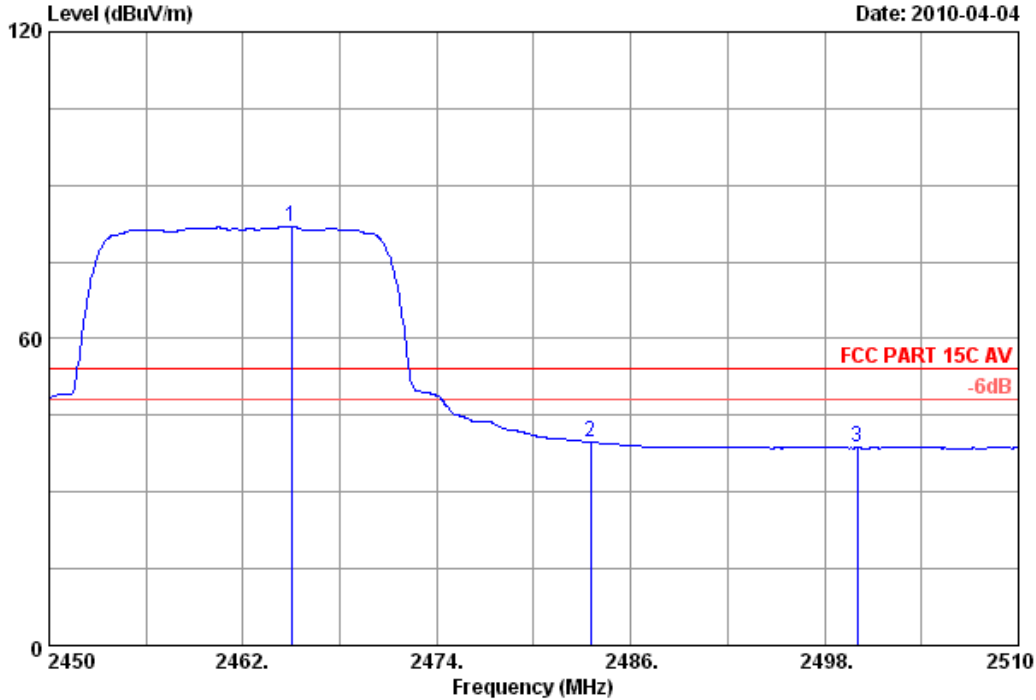
Remarks:

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



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Data: 76 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 76
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH11 2462MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2465.000 | 29.48 | 8.82 | 36.02 | 79.55 | 81.83 | 54.00 | -27.83 | Average |
| 2 | 2483.500 | 29.49 | 8.87 | 35.97 | 37.36 | 39.75 | 54.00 | 14.25 | Average |
| 3 | 2500.000 | 29.50 | 8.92 | 36.00 | 36.19 | 38.61 | 54.00 | 15.39 | Average |

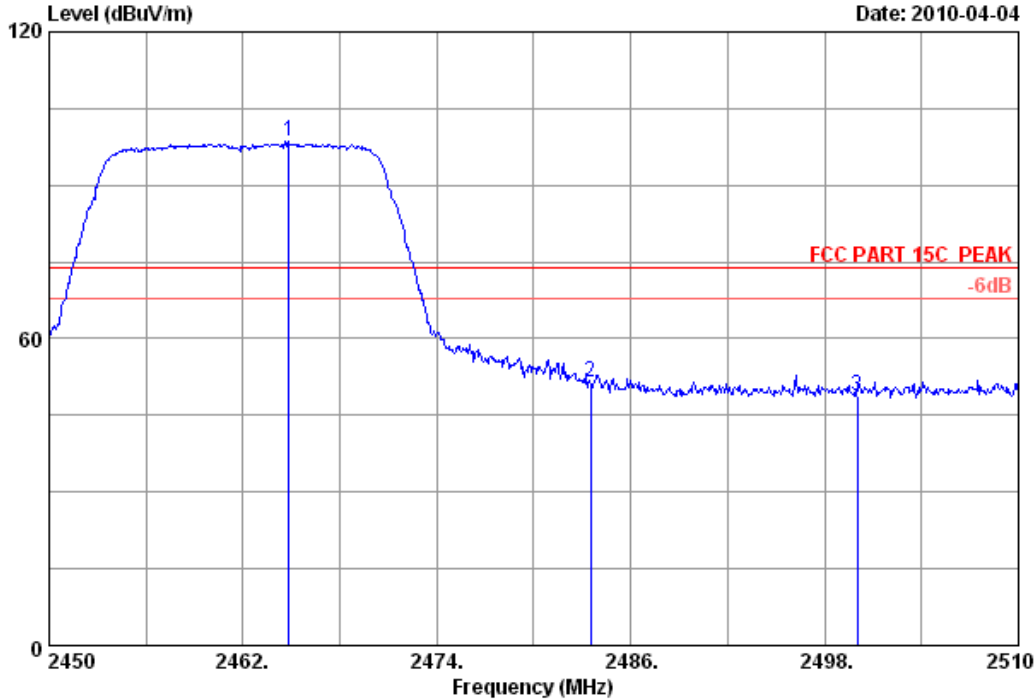
Remarks:

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



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Site no. : 3m Chamber Data no. : 77
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH11 2462MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2464.820 | 29.48 | 8.82 | 36.02 | 96.23 | 98.51 | 74.00 | -24.51 | Peak |
| 2 | 2483.500 | 29.49 | 8.87 | 35.97 | 49.16 | 51.55 | 74.00 | 22.45 | Peak |
| 3 | 2500.000 | 29.50 | 8.92 | 36.00 | 46.30 | 48.72 | 74.00 | 25.28 | Peak |

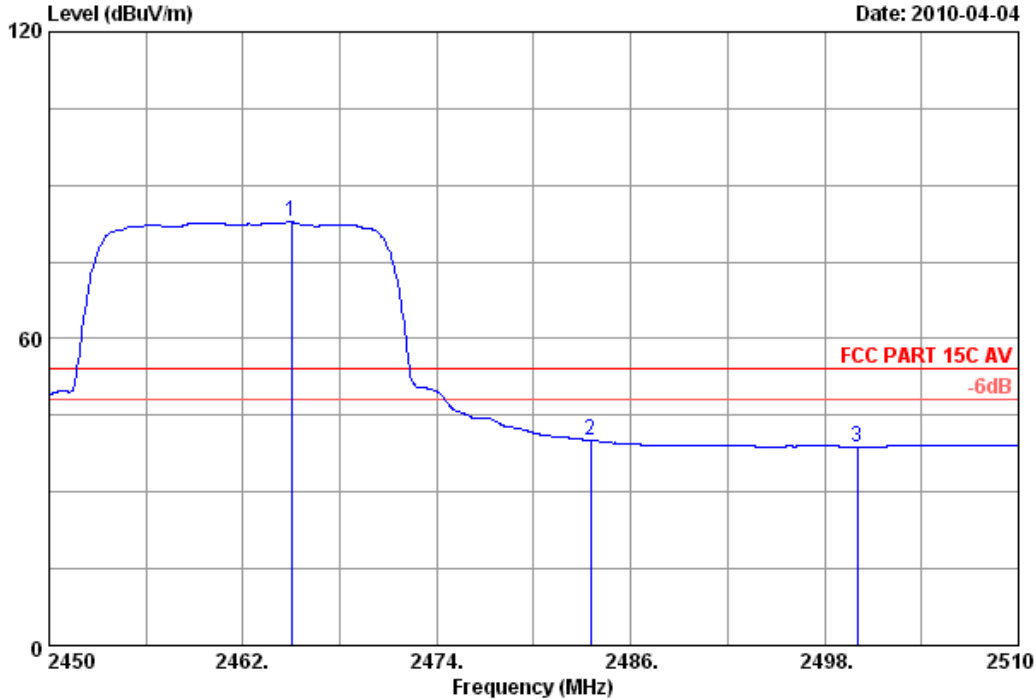
Remarks:

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



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Data: 78 File: E:\2010 report data\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 78
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH11 2462MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2465.000 | 29.48 | 8.82 | 36.02 | 80.47 | 82.75 | 54.00 | -28.75 | Average |
| 2 | 2483.500 | 29.49 | 8.87 | 35.97 | 37.67 | 40.06 | 54.00 | 13.94 | Average |
| 3 | 2500.000 | 29.50 | 8.92 | 36.00 | 36.48 | 38.90 | 54.00 | 15.10 | Average |

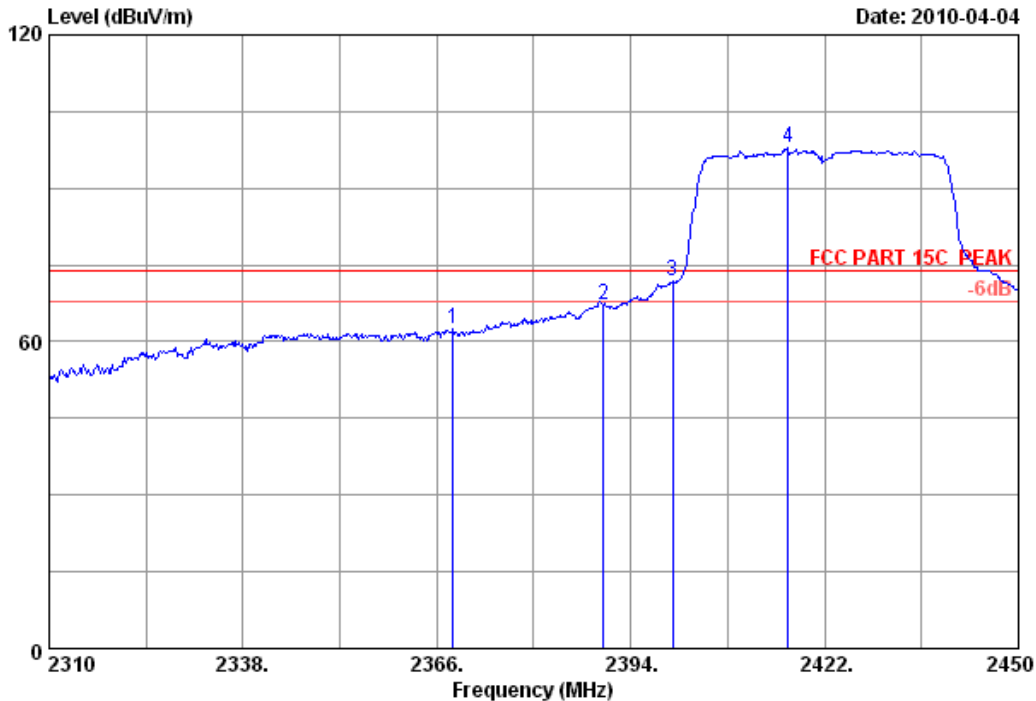
Remarks:

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



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Data: 79 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 79
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH1 2422MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2368.380 | 29.42 | 8.62 | 35.91 | 60.21 | 62.34 | 74.00 | 11.66 | Peak |
| 2 | 2390.000 | 29.44 | 8.67 | 36.09 | 65.32 | 67.34 | 74.00 | 6.66 | Peak |
| 3 | 2400.000 | 29.44 | 8.72 | 36.09 | 69.63 | 71.70 | 74.00 | 2.30 | Peak |
| 4 | 2416.680 | 29.45 | 8.72 | 35.95 | 95.65 | 97.87 | 74.00 | -23.87 | Peak |

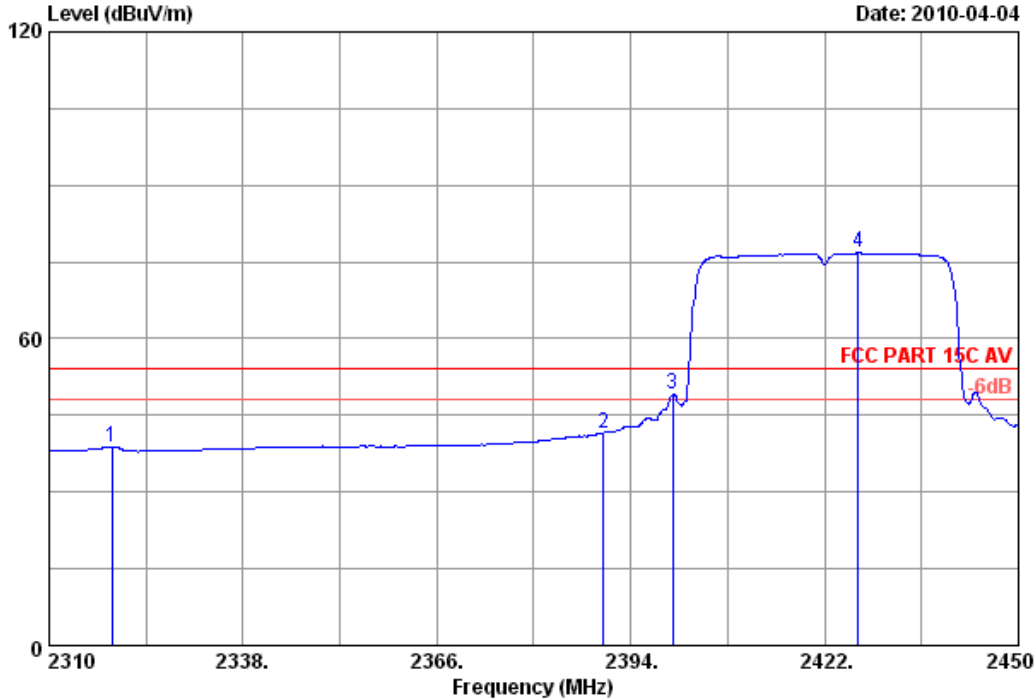
Remarks:

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



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Data: 80 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 80
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH1 2422MHz Tx Mode
 M/N :

| | Ant. Freq. (MHz) | Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|---------------|-----------------|------------------|----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2319.100 | 29.40 | 8.52 | 36.06 | 36.98 | 38.84 | 54.00 | 15.16 | Average |
| 2 | 2390.000 | 29.44 | 8.67 | 36.09 | 39.55 | 41.57 | 54.00 | 12.43 | Average |
| 3 | 2400.000 | 29.44 | 8.72 | 36.09 | 47.02 | 49.09 | 54.00 | 4.91 | Average |
| 4 | 2426.900 | 29.46 | 8.77 | 36.01 | 74.54 | 76.76 | 54.00 | -22.76 | Average |

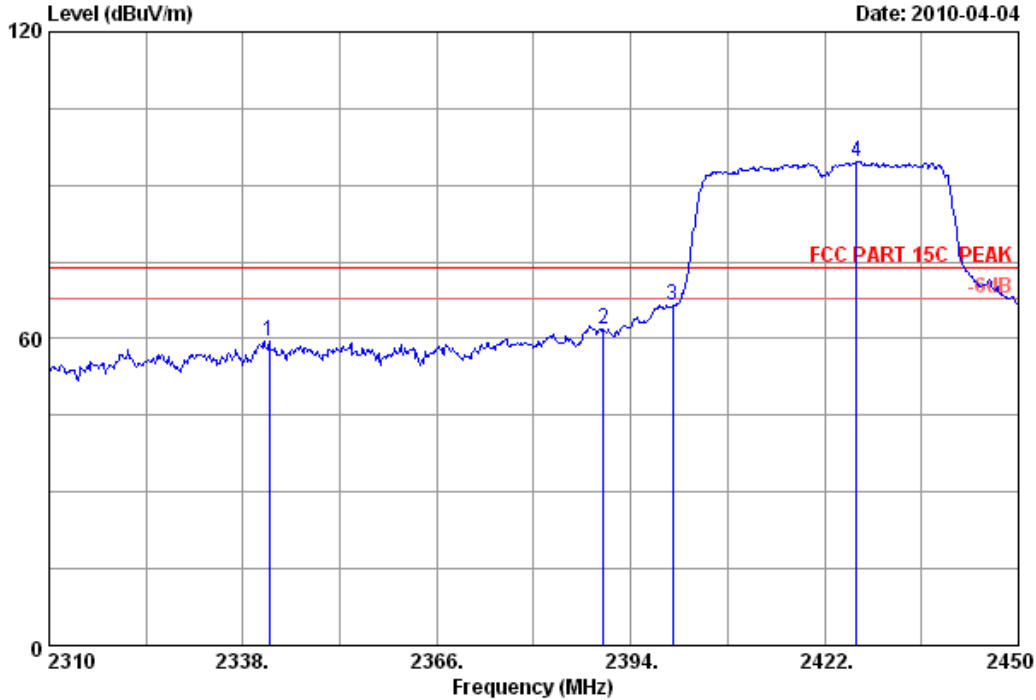
Remarks:

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



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Data: 81 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 81
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH1 2422MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2341.780 | 29.41 | 8.57 | 35.99 | 57.37 | 59.36 | 74.00 | 14.64 | Peak |
| 2 | 2390.000 | 29.44 | 8.67 | 36.09 | 59.74 | 61.76 | 74.00 | 12.24 | Peak |
| 3 | 2400.000 | 29.44 | 8.72 | 36.09 | 64.33 | 66.40 | 74.00 | 7.60 | Peak |
| 4 | 2426.620 | 29.46 | 8.77 | 36.01 | 92.28 | 94.50 | 74.00 | -20.50 | Peak |

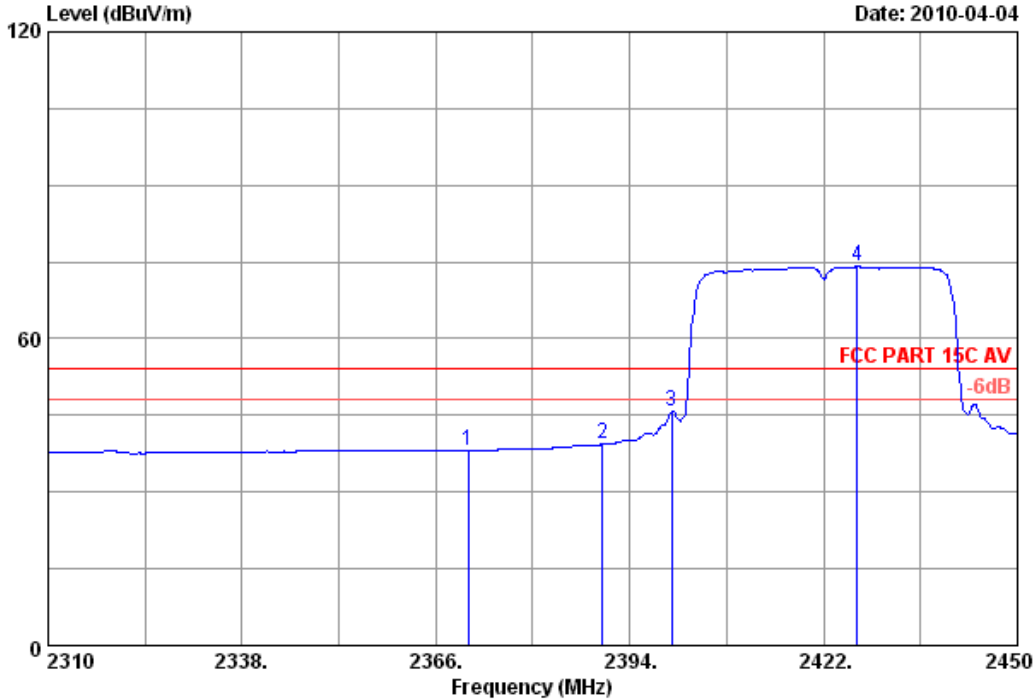
Remarks:

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



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Data: 82 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 82
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH1 2422MHz Tx Mode
 M/N :

| | Ant. Freq. (MHz) | Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|---------------|-----------------|------------------|----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2370.620 | 29.43 | 8.62 | 36.00 | 36.19 | 38.24 | 54.00 | 15.76 | Average |
| 2 | 2390.000 | 29.44 | 8.67 | 36.09 | 37.29 | 39.31 | 54.00 | 14.69 | Average |
| 3 | 2400.000 | 29.44 | 8.72 | 36.09 | 43.71 | 45.78 | 54.00 | 8.22 | Average |
| 4 | 2426.900 | 29.46 | 8.77 | 36.01 | 71.85 | 74.07 | 54.00 | -20.07 | Average |

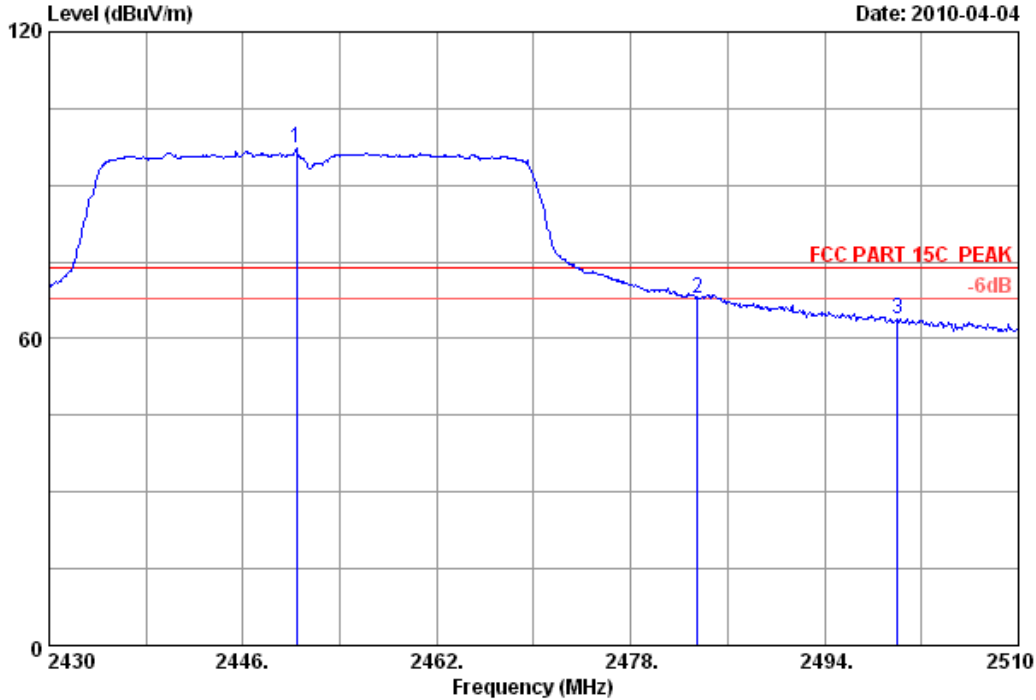
Remarks:

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



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Data: 101 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 101
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH7 2452MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2450.400 | 29.47 | 8.82 | 36.06 | 95.10 | 97.33 | 74.00 | -23.33 | Peak |
| 2 | 2483.500 | 29.49 | 8.87 | 35.97 | 65.60 | 67.99 | 74.00 | 6.01 | Peak |
| 3 | 2500.000 | 29.50 | 8.92 | 36.00 | 61.46 | 63.88 | 74.00 | 10.12 | Peak |

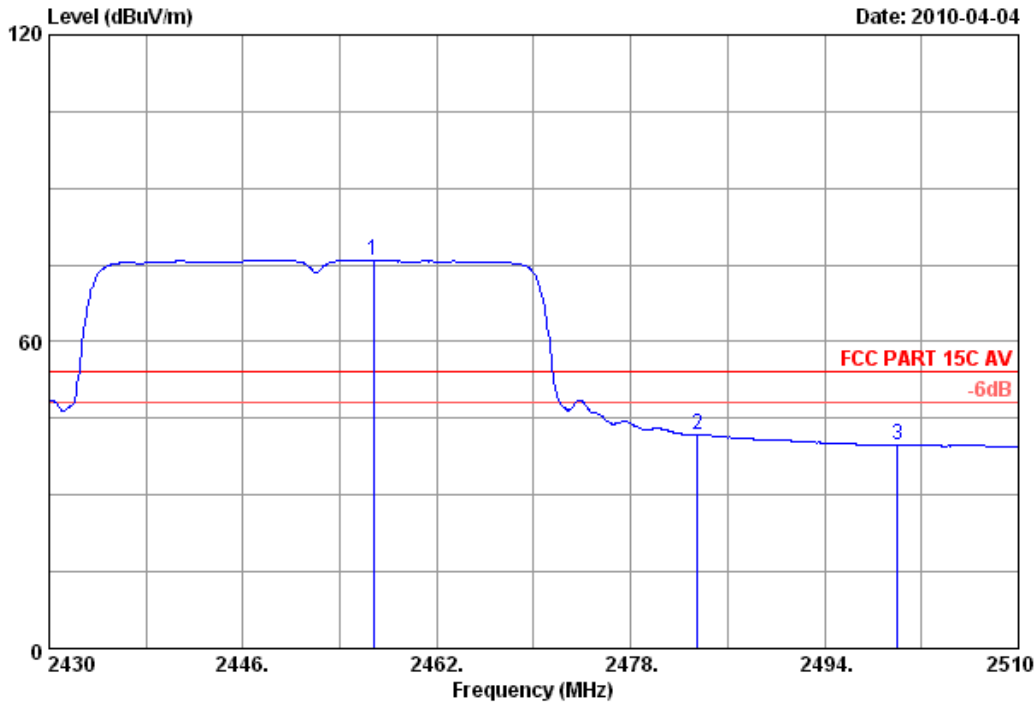
Remarks:

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



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Data: 102 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 102
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH7 2452MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2456.800 | 29.48 | 8.82 | 36.02 | 73.63 | 75.91 | 54.00 | -21.91 | Average |
| 2 | 2483.500 | 29.49 | 8.87 | 35.97 | 39.43 | 41.82 | 54.00 | 12.18 | Average |
| 3 | 2500.000 | 29.50 | 8.92 | 36.00 | 37.36 | 39.78 | 54.00 | 14.22 | Average |

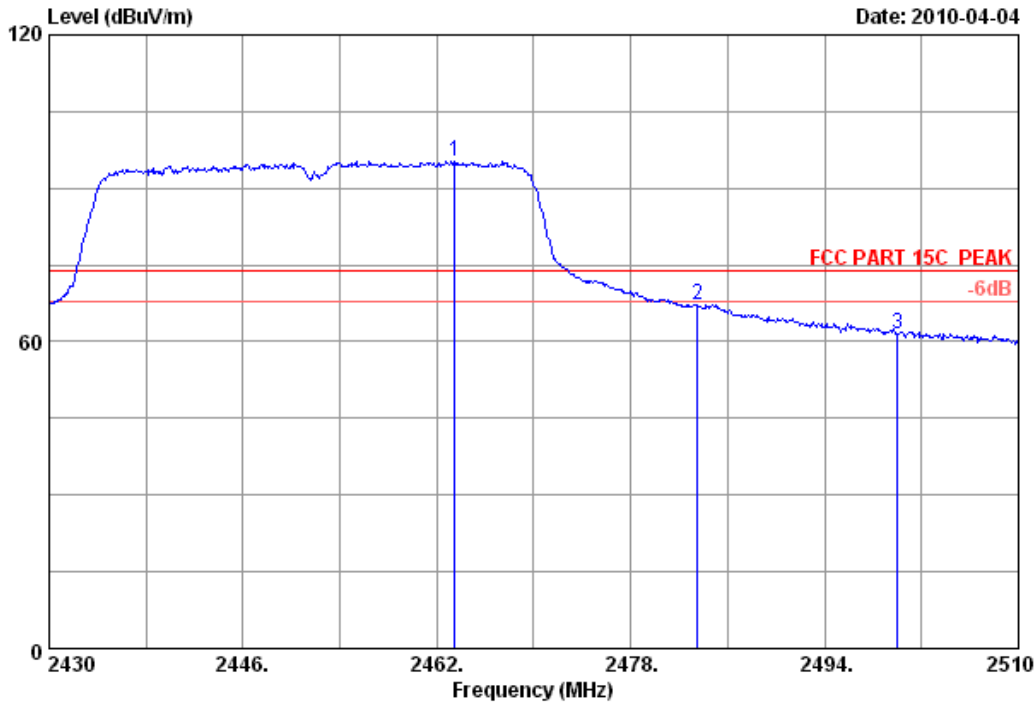
Remarks:

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



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Data: 103 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 103
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH7 2452MHz Tx Mode
 M/N :

| | Ant. Freq. (MHz) | Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|---------------|-----------------|------------------|----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2463.440 | 29.48 | 8.82 | 36.02 | 92.92 | 95.20 | 74.00 | -21.20 | Peak |
| 2 | 2483.500 | 29.49 | 8.87 | 35.97 | 64.75 | 67.14 | 74.00 | 6.86 | Peak |
| 3 | 2500.000 | 29.50 | 8.92 | 36.00 | 59.19 | 61.61 | 74.00 | 12.39 | Peak |

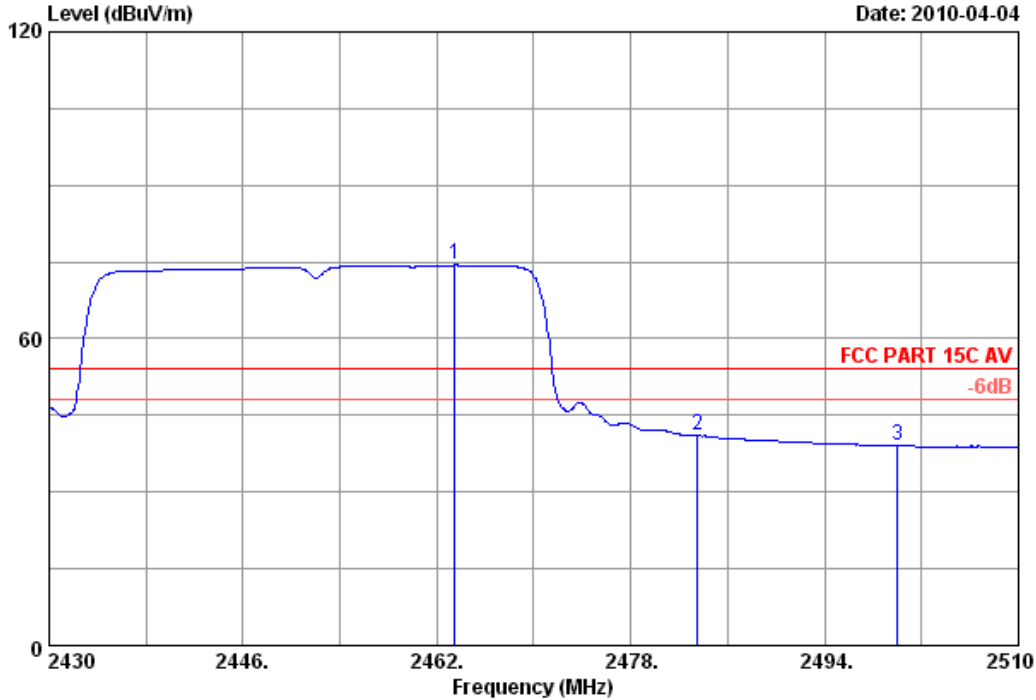
Remarks:

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



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Postcode:518057

Data: 104 File: E:\2010 report data\D\ACS10Q0577.EM6 (104)



Site no. : 3m Chamber Data no. : 104
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : Wireless USB Adapter M/N:DWA-140
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH7 2452MHz Tx Mode
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2463.440 | 29.48 | 8.82 | 36.02 | 72.11 | 74.39 | 54.00 | -20.39 | Average |
| 2 | 2483.500 | 29.49 | 8.87 | 35.97 | 38.63 | 41.02 | 54.00 | 12.98 | Average |
| 3 | 2500.000 | 29.50 | 8.92 | 36.00 | 36.66 | 39.08 | 54.00 | 14.92 | Average |

Remarks:

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

7. 6dB Bandwidth Test

7.1. Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------|--------------|-----------------|------------|------------|---------------|
| 1 | Spectrum Analyzer | Agilent | E4446A | US44300459 | May,10, 08 | 1 Year |
| 2 | Attenuator | Agilent | 8491B | MY39262165 | May,28, 08 | 1 Year |
| 3 | RF Cable | Hubersuhner | SUCOFLEX 102 | 28618/2 | May,28, 08 | 1Year |

7.2. Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

7.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 100 kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

7.4. Test Results

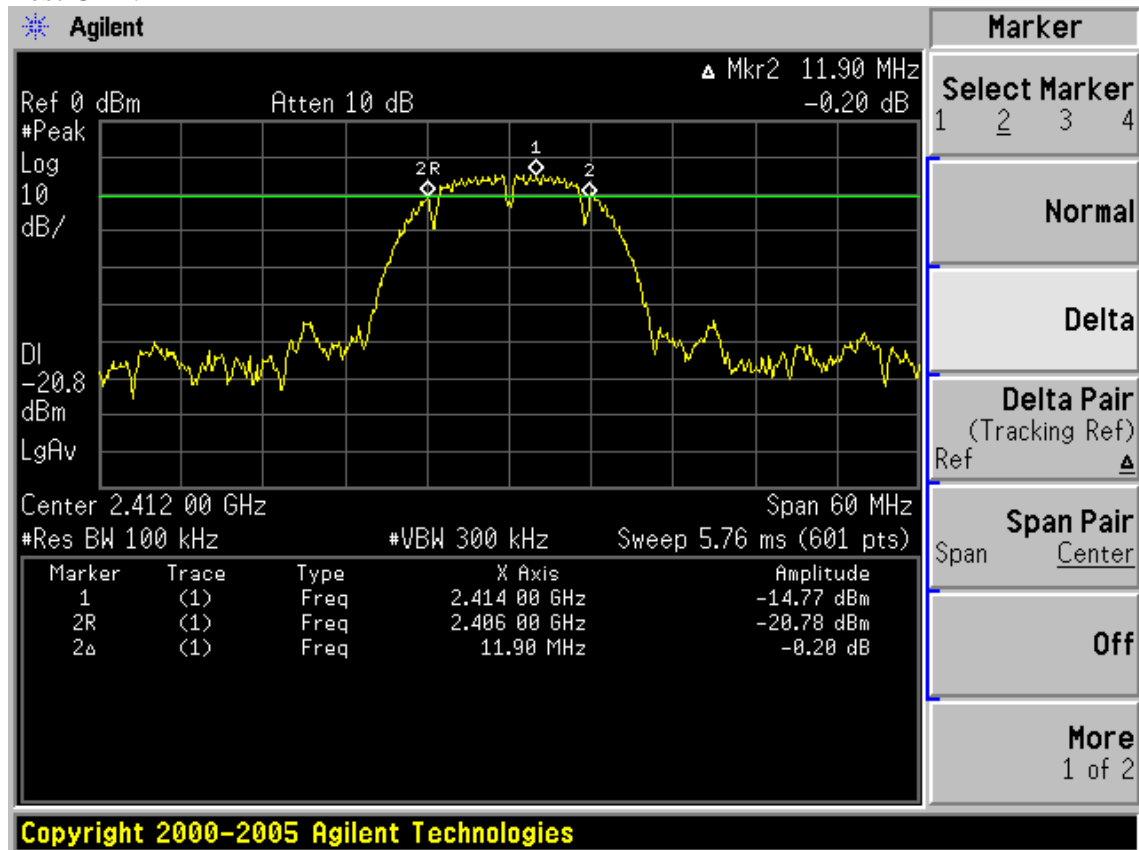
| | | |
|---------------------------|--------------------|--------------------|
| EUT: Wireless USB Adapter | | |
| M/N: DWA-140 | | |
| Test date: 2010-04-04 | Pressure:100.6 kpa | Humidity:60% |
| Tested by: Sunny-lu | Test site: RF site | Temperature : 25°C |

| Test Mode | CH | Result | | Limit (KHz) |
|-------------------|------|-------------------------------------|-------------------------------------|-------------|
| | | Chain 1 6dB bandwidth (MHz) | Chain 2 6dB bandwidth (MHz) | |
| 11b | CH1 | 11.90 | N/A | >500 |
| | CH6 | 12.00 | N/A | >500 |
| | CH11 | 12.00 | N/A | >500 |
| 11g | CH1 | 16.10 | N/A | >500 |
| | CH6 | 16.00 | N/A | >500 |
| | CH11 | 16.00 | N/A | >500 |
| 11n HT20 | CH1 | 16.00 | 15.90 | >500 |
| | CH6 | 15.90 | 15.90 | >500 |
| | CH11 | 16.00 | 15.70 | >500 |
| 11n HT40 | CH1 | 35.40 | 35.30 | >500 |
| | CH4 | 35.30 | 35.40 | >500 |
| | CH7 | 35.30 | 35.10 | >500 |
| Conclusion : PASS | | | | |

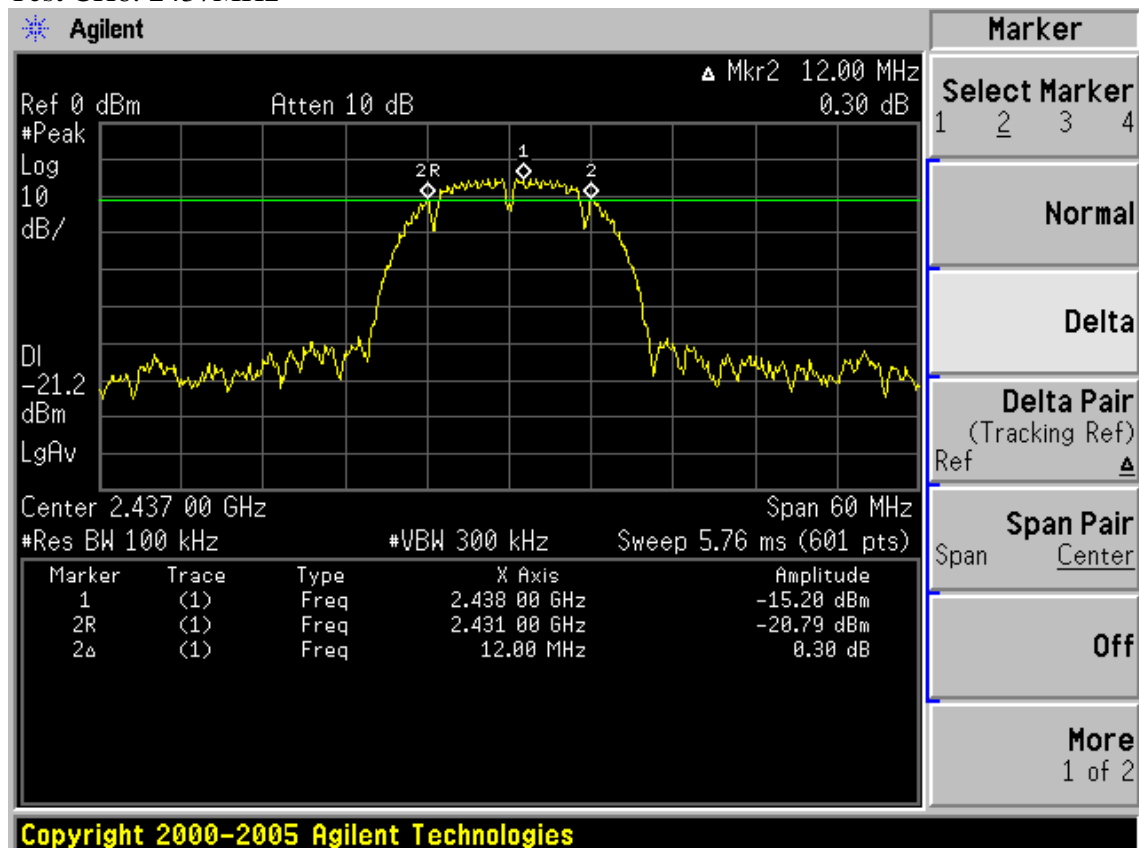
Chain 1:

Test Mode: IEEE 802.11b TX

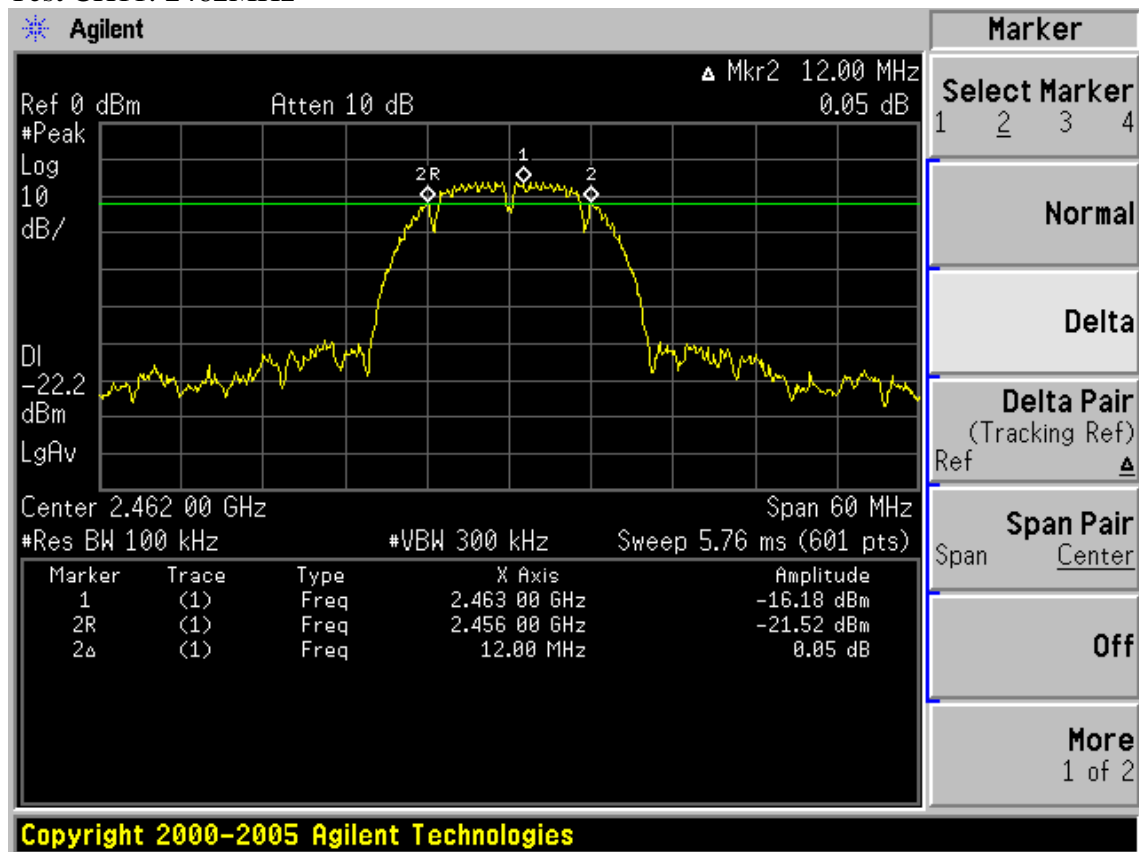
Test CH1: 2412MHz



Test CH6: 2437MHz

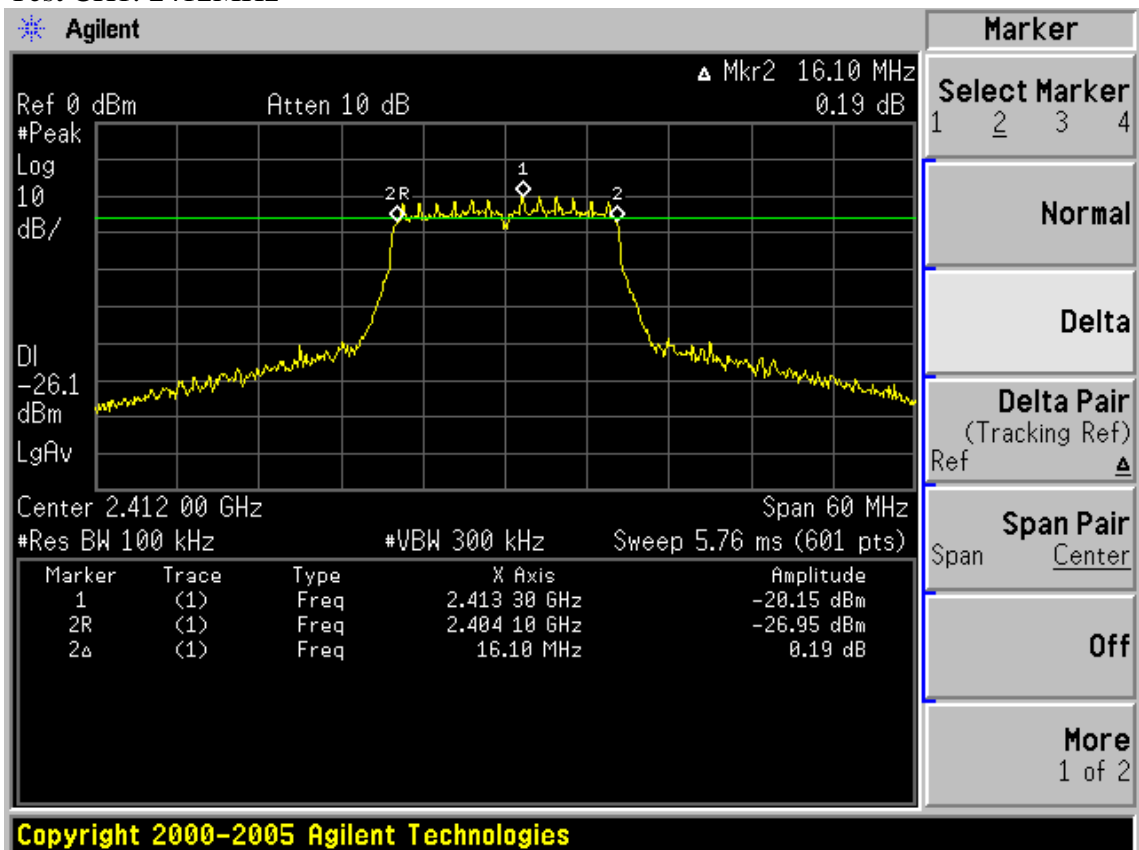


Test CH1: 2462MHz

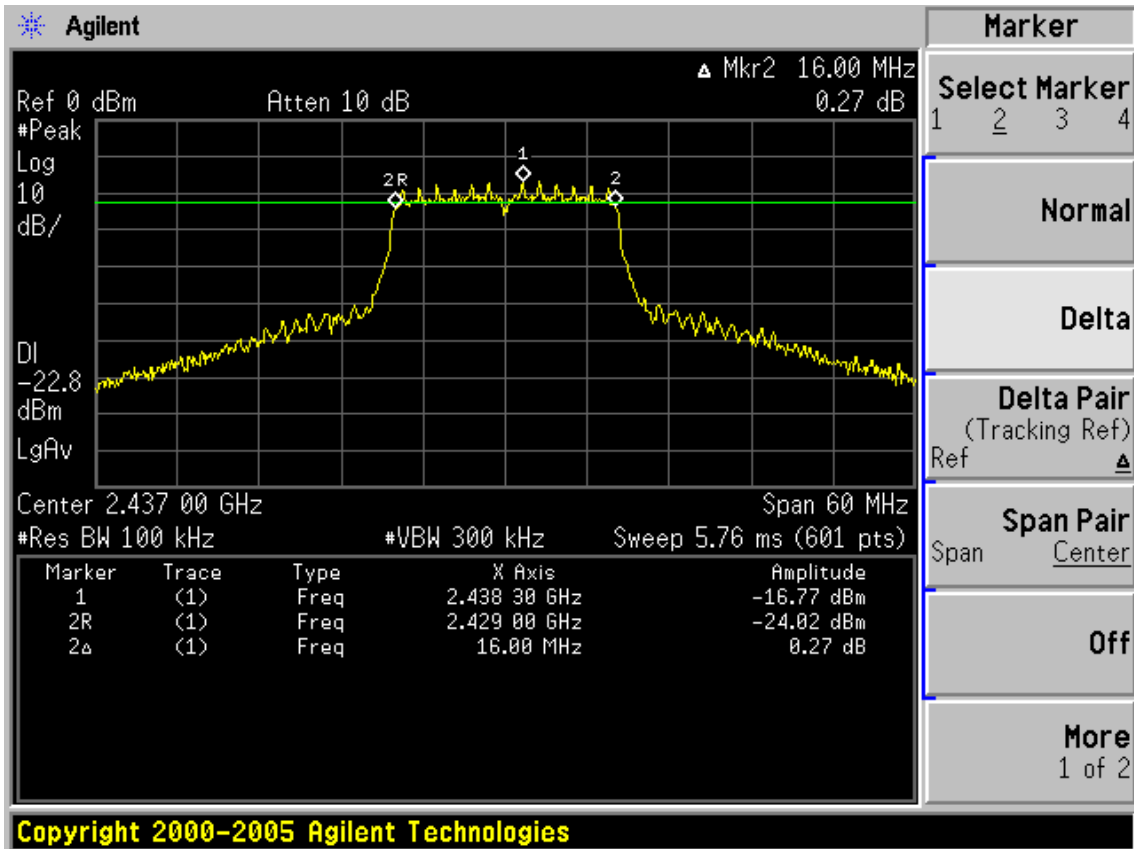


Test Mode: IEEE 802.11g TX

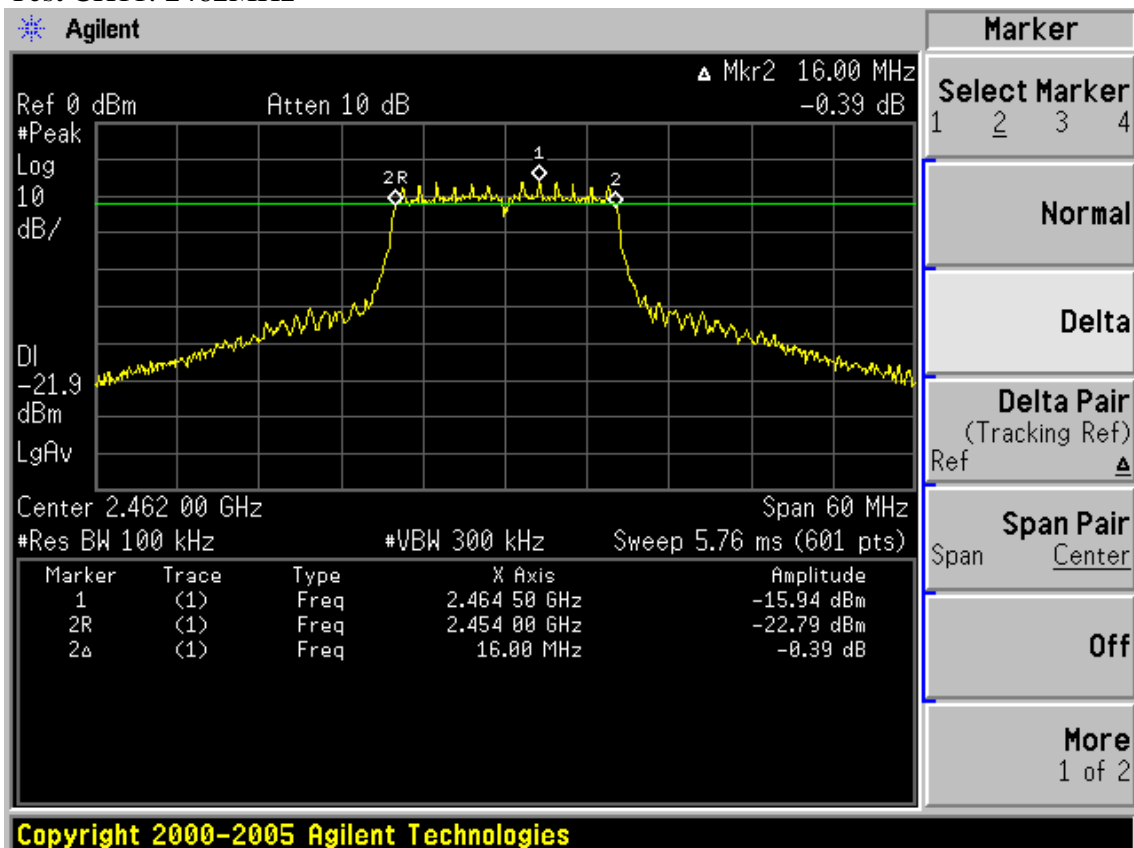
Test CH1: 2412MHz



Test CH6: 2437MHz

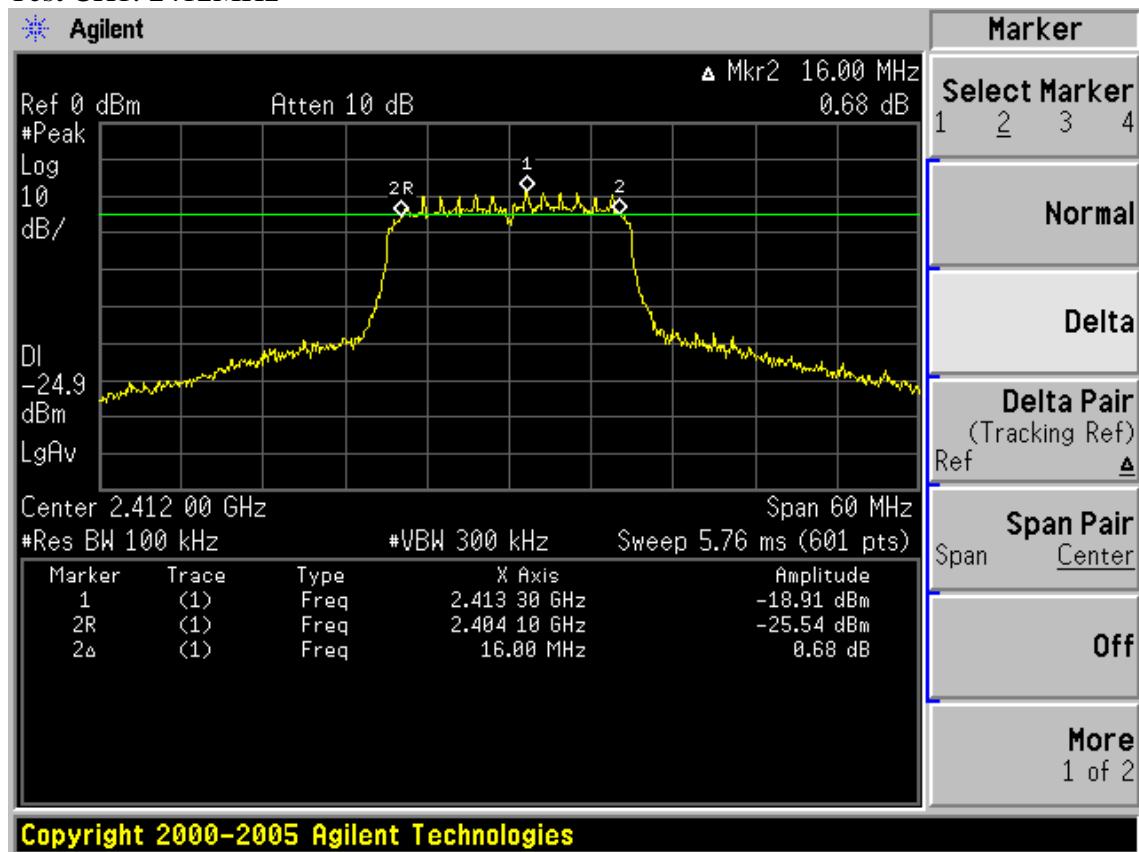


Test CH11: 2462MHz

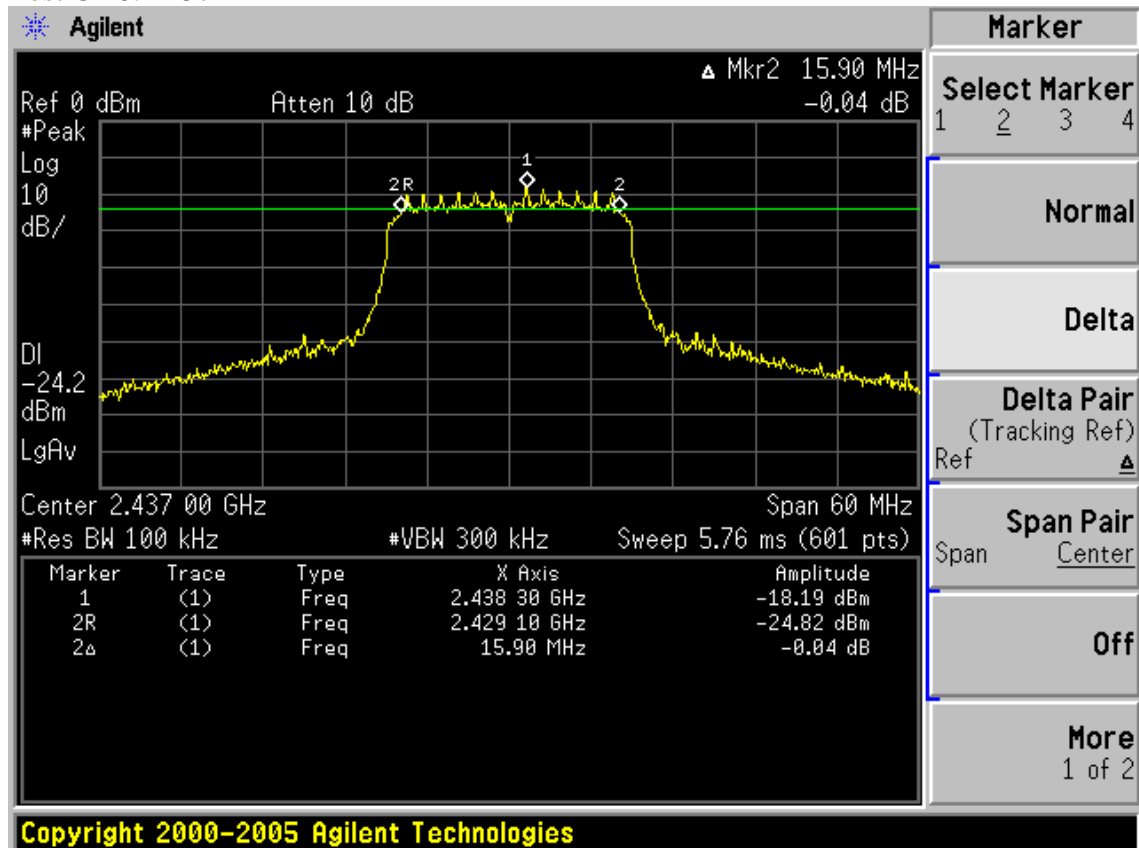


Test Mode: IEEE 802.11n HT20 TX

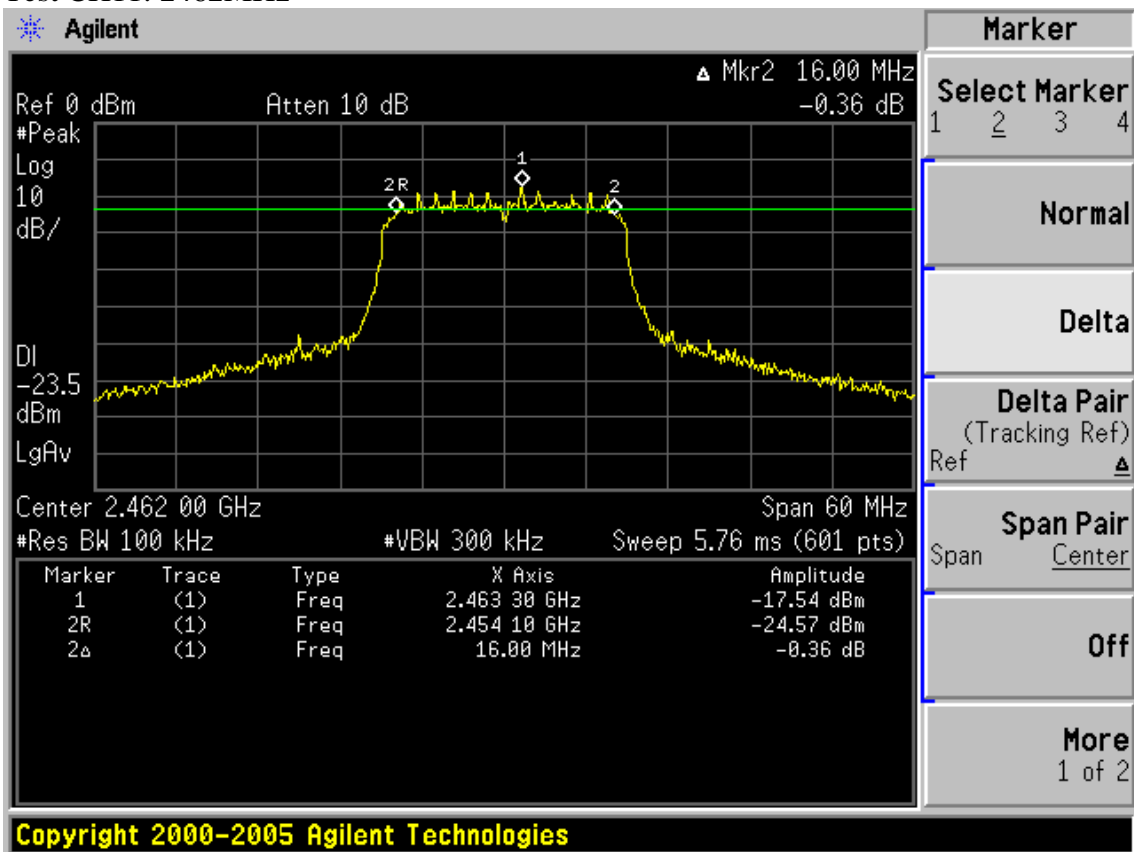
Test CH1: 2412MHz



Test CH6: 2437MHz

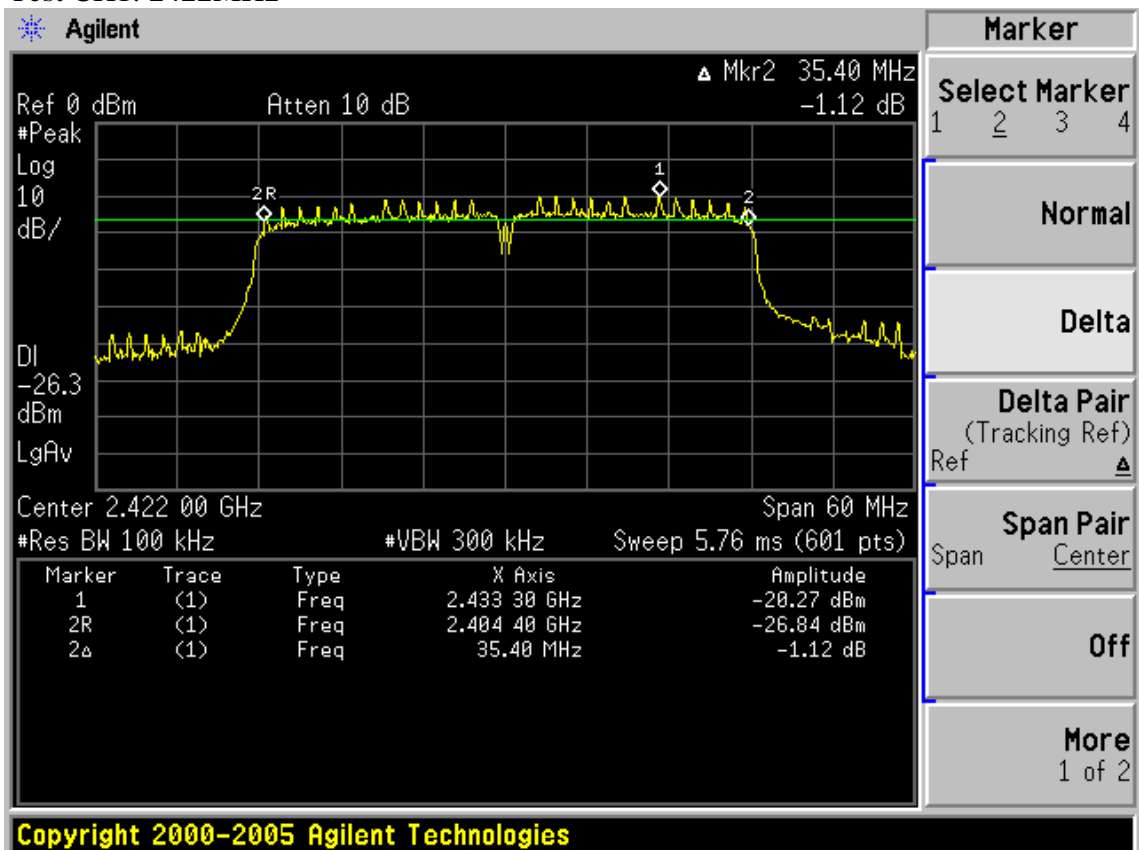


Test CH1: 2462MHz

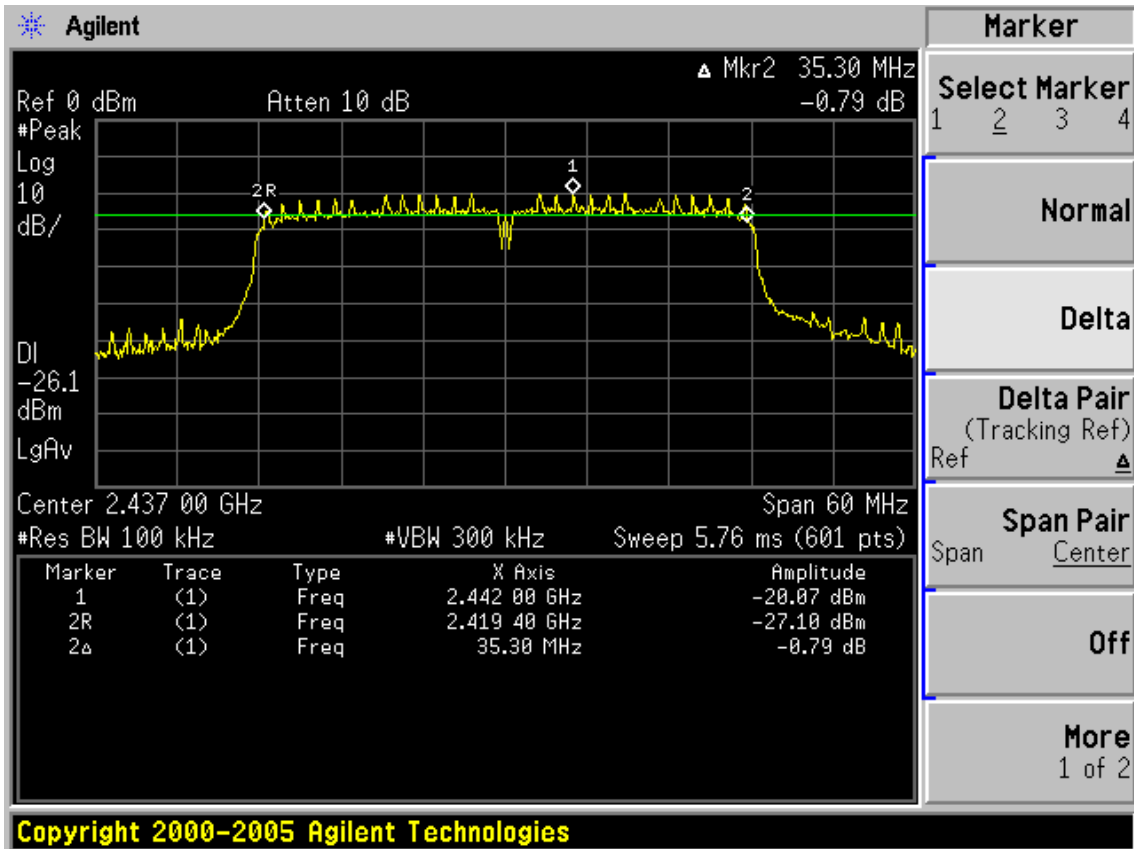


Test Mode: IEEE 802.11n HT40 TX

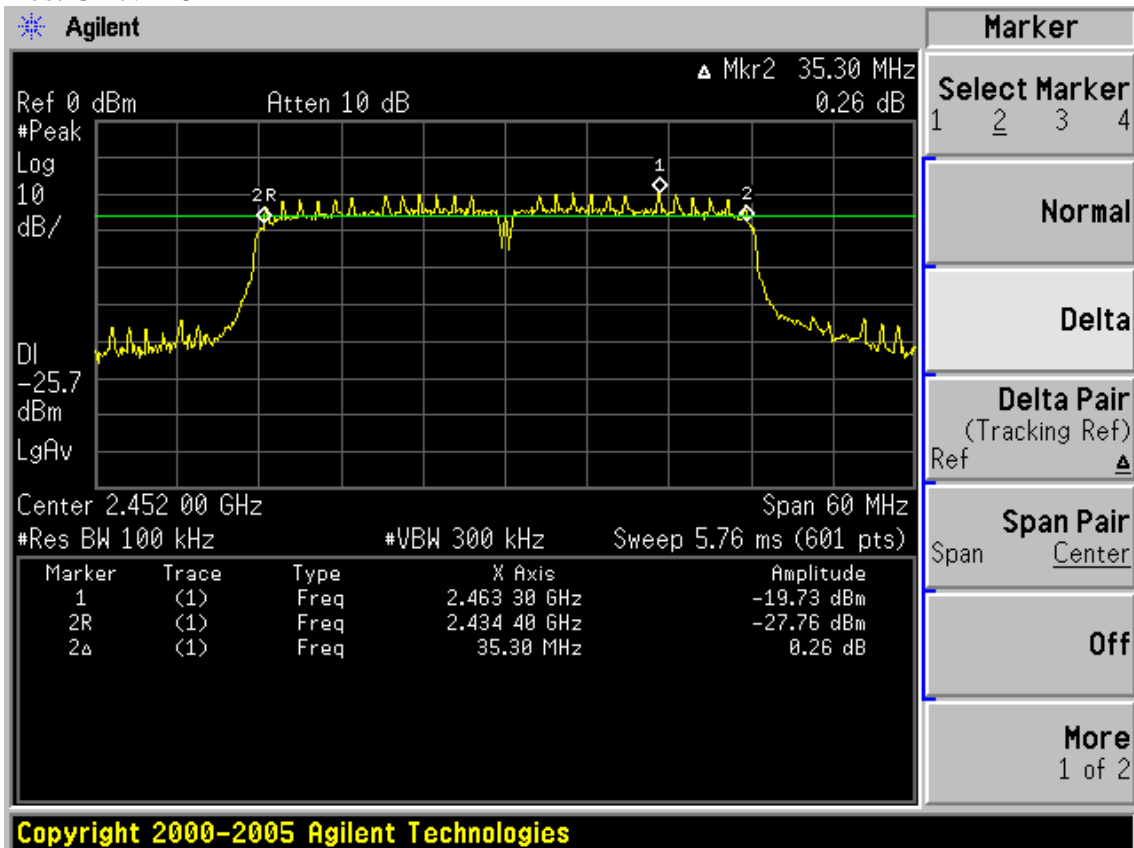
Test CH1: 2422MHz



Test CH4: 2437MHz



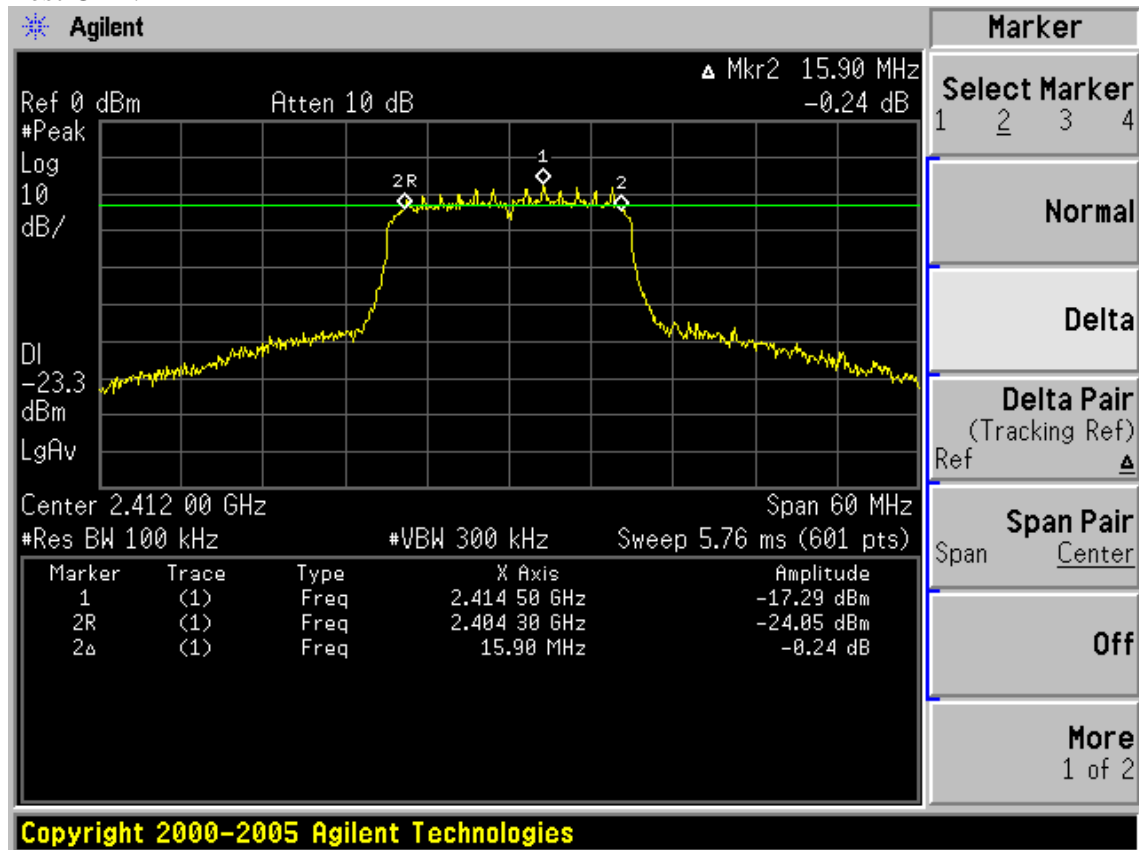
Test CH7: 2452MHz



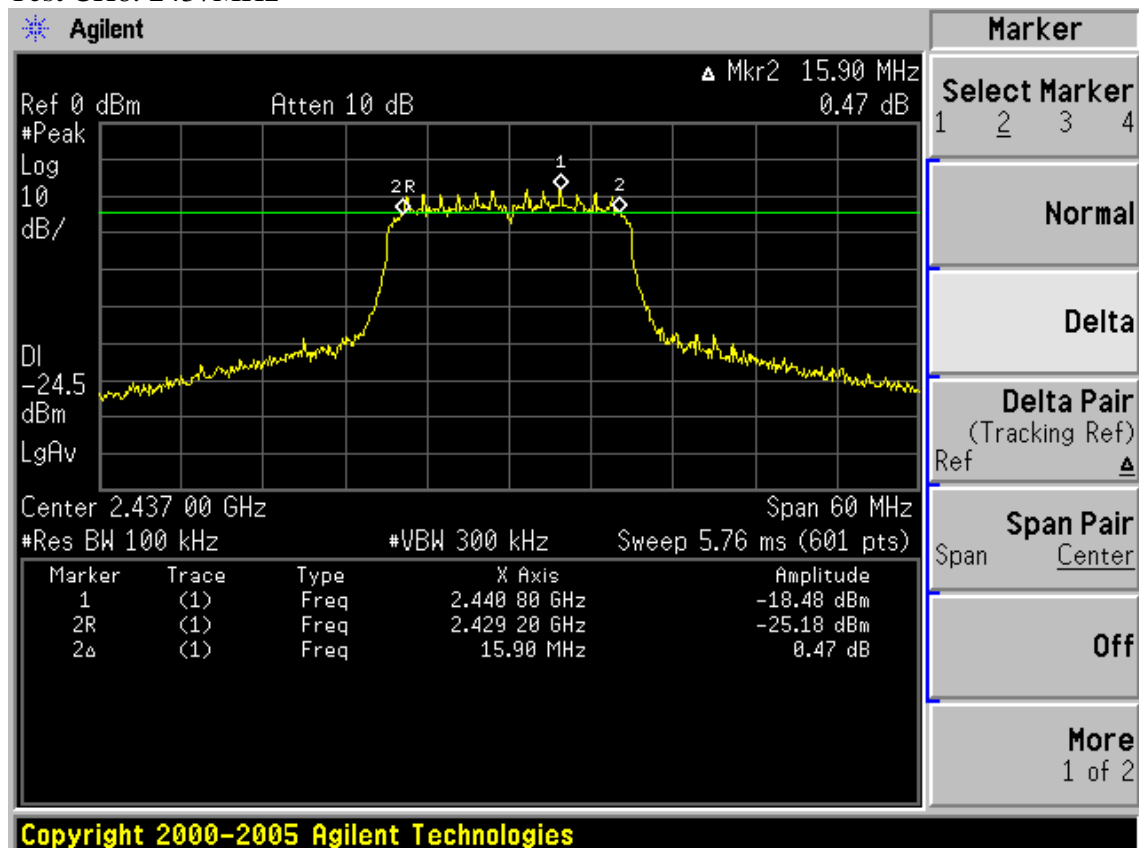
Chain 2:

Test Mode: IEEE 802.11n HT20 TX

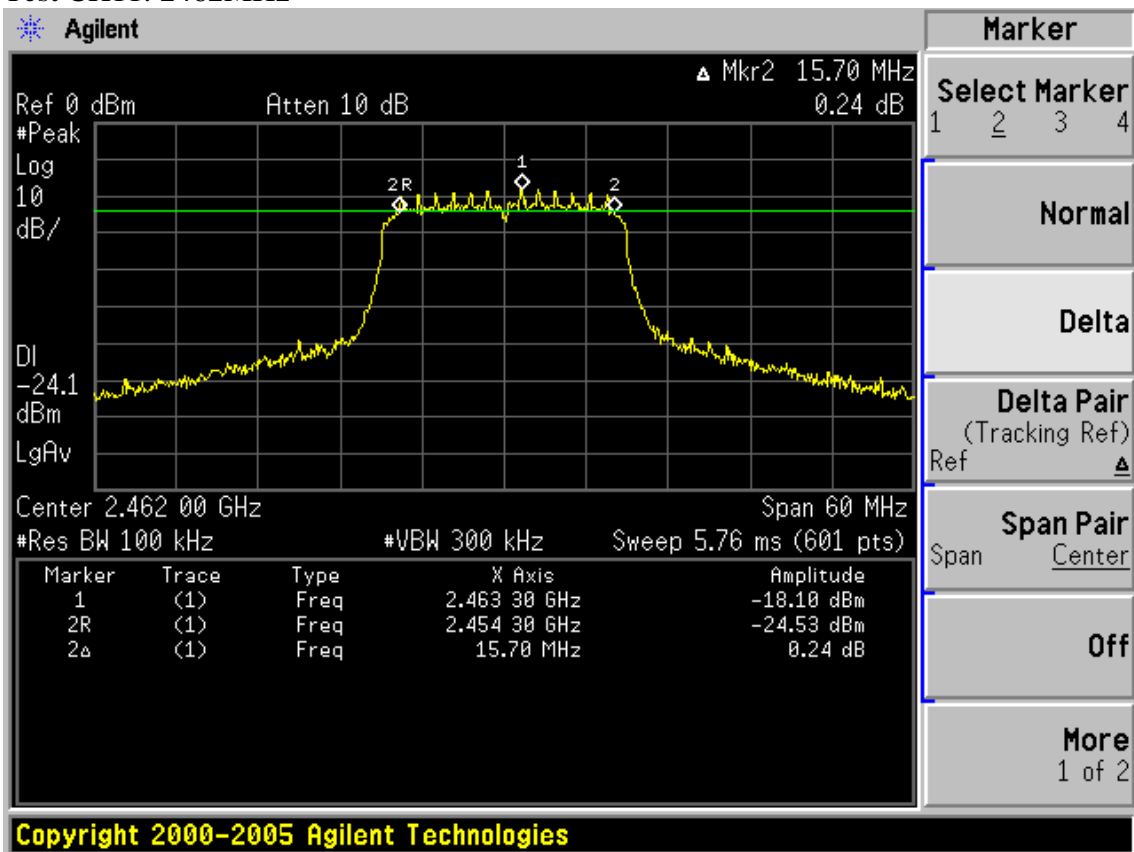
Test CH1: 2412MHz



Test CH6: 2437MHz

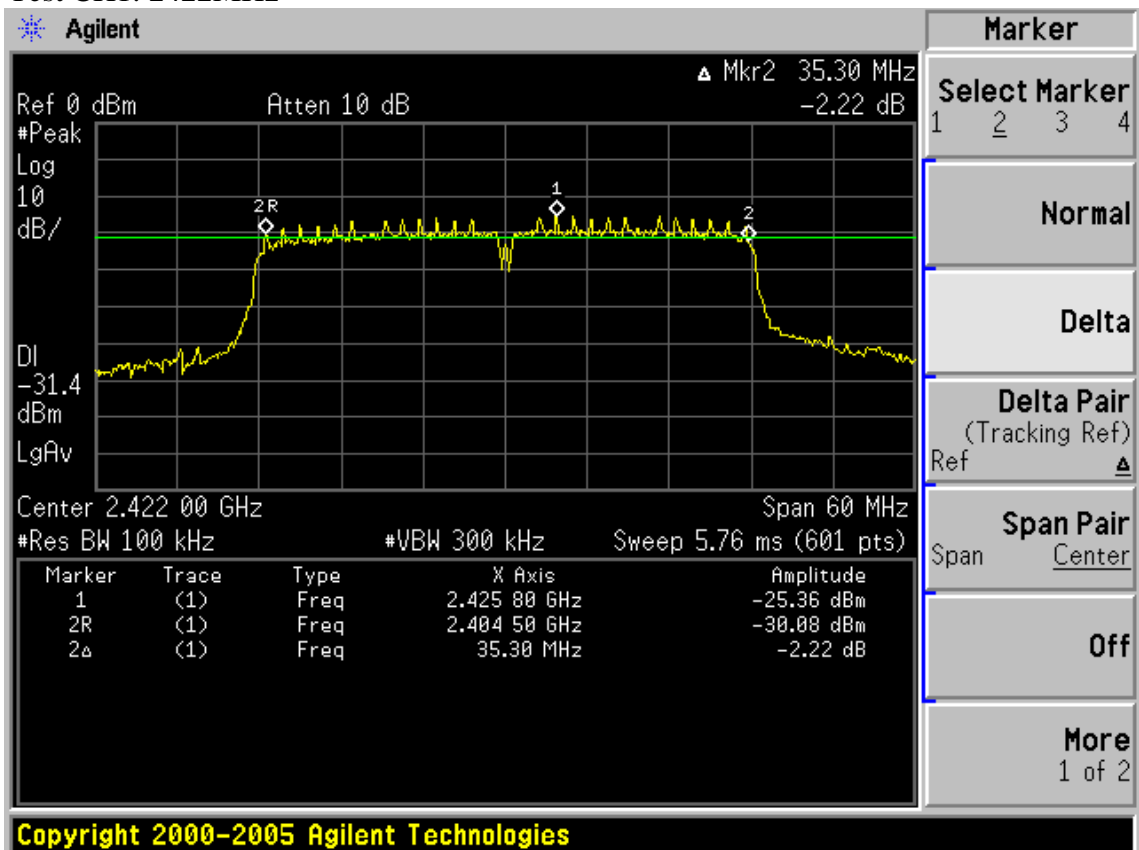


Test CH1: 2462MHz

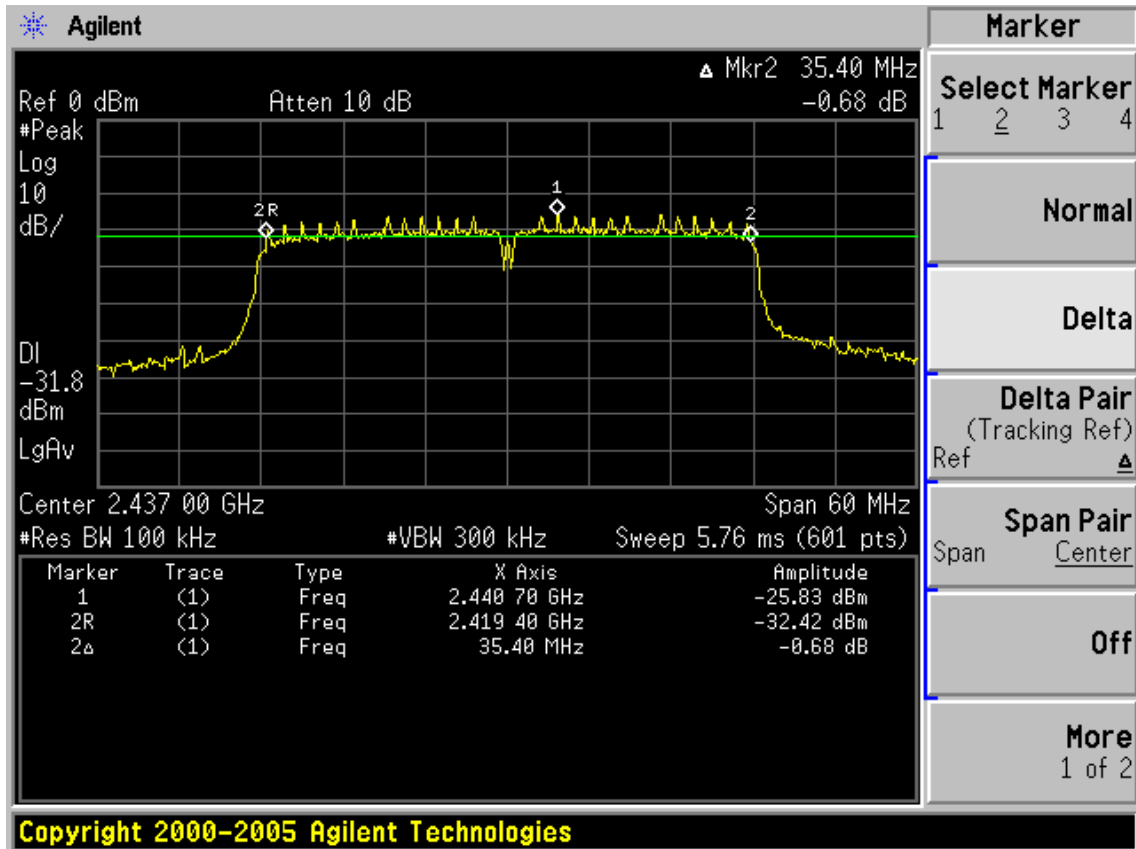


Test Mode: IEEE 802.11n HT40 TX

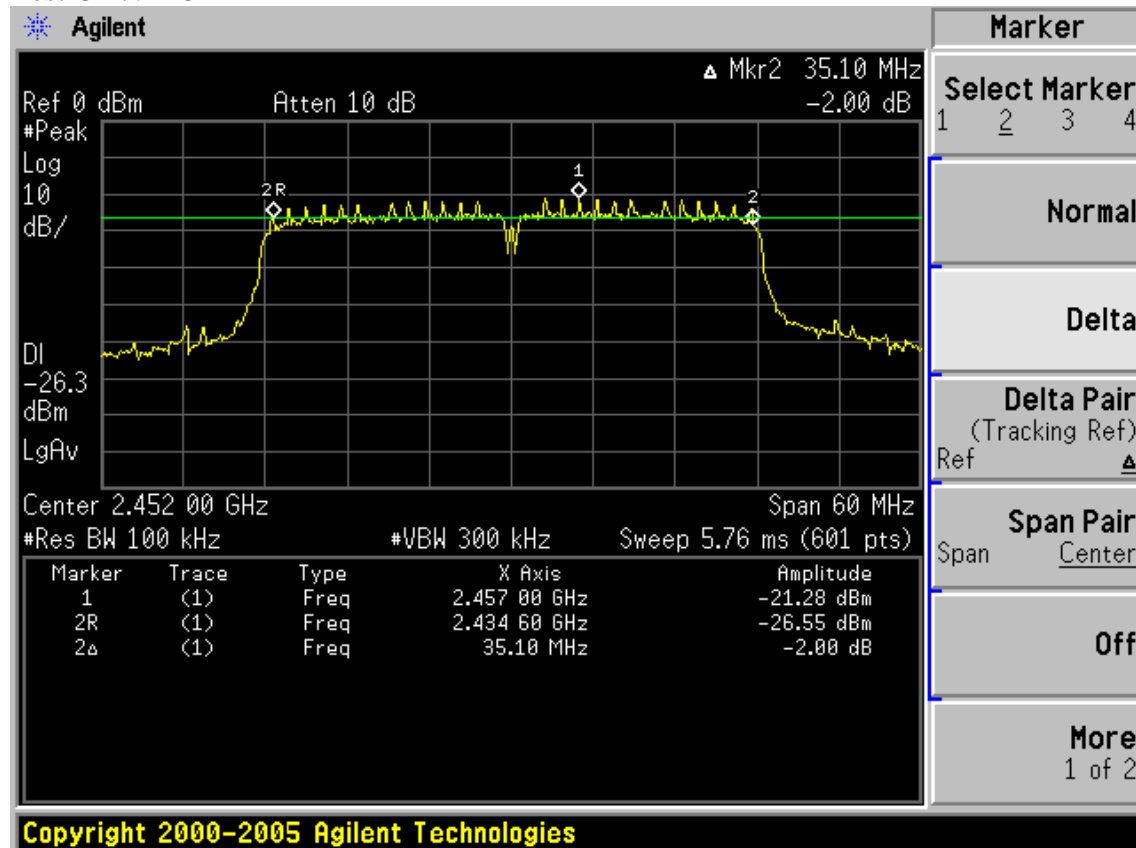
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



8. OUTPUT POWER TEST

8.1. Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------|--------------|-----------------|------------|------------|---------------|
| 1 | Spectrum Analyzer | Agilent | E4446A | US44300459 | May.08, 09 | 1 Year |
| 2 | Power meter | Anritsu | ML2487A | 6K00002472 | Oct.20.09 | 1Year |
| 3 | Power sensor | Anritsu | MA2491A | 0033005 | Oct.20.09 | 1Year |
| 4 | Attenuator | Agilent | 8491B | MY39262165 | May.08, 09 | 1 Year |
| 5 | RF Cable | Hubersuhner | SUCOFLEX 102 | 28618/2 | May.08, 09 | 1Year |

8.2. Limit

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm)

8.3. Test Procedure

- 1, Connected the EUT's antenna port to measure device by 20dB attenuator.
- 2, For IEEE 802.11b/g and IEEE802.11n HT20 mode, use a PK power meter which's bandwidth is above 6dB bandwidth of signal to measure out each each test modes PK output power.
- 3, For IEEE802.11n HT40 mode, because the signal's bandwidth is about 40MHz and above 20MHz bandwidth of power sensor ML2491A. So the channel power measure function of Spectrum Analyzer was used to measure out the PK output power of each test modes

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

8.4. Test Results

| | | |
|---------------------------|---------------------|--------------------|
| EUT: Wireless USB Adapter | | |
| M/N: DWA-140 | | |
| Test date: 2010/04/04 | Pressure: 100.1 kpa | Humidity: 60% |
| Tested by: Paul_Tian | Test site: RF site | Temperature : 23°C |

| Cable loss: 0.6 dB | | Attenuator loss: 20 dB | | Antenna Gain: 0 dBi | |
|--------------------|------|------------------------------------|------------------------------------|----------------------------------|-------|
| Mode | CH | Result | | | Limit |
| | | Chain 1 PK Output power(dBm) | Chain 2 PK Output power(dBm) | Total PK Output power(dBm) | (dBm) |
| 11b | CH1 | 21.12 | N/A | N/A | 30 |
| | CH6 | 20.33 | N/A | N/A | 30 |
| | CH11 | 20.09 | N/A | N/A | 30 |
| 11g | CH1 | 24.13 | N/A | N/A | 30 |
| | CH6 | 24.52 | N/A | N/A | 30 |
| | CH11 | 24.61 | N/A | N/A | 30 |
| 11n HT20 | CH1 | 25.71 | 25.10 | 28.43 | 30 |
| | CH6 | 25.45 | 24.89 | 28.19 | 30 |
| | CH11 | 25.45 | 25.36 | 28.42 | 30 |
| 11n HT40 | CH1 | 24.89 | 24.56 | 27.74 | 30 |
| | CH4 | 25.20 | 24.61 | 27.93 | 30 |
| | CH7 | 25.71 | 24.34 | 28.09 | 30 |
| Conclusion: PASS | | | | | |

9. POWER SPECTRAL DENSITY TEST

9.1. Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------|--------------|-----------------|------------|------------|---------------|
| 1. | Spectrum Analyzer | Agilent | E4446A | US44300459 | May.08, 09 | 1 Year |
| 2. | Attenuator | Agilent | 8491B | MY39262165 | May.08, 09 | 1 Year |
| 3. | RF Cable | Hubersuhner | SUCOFLEX 102 | 28618/2 | May.08, 09 | 1Year |

9.2. Limit

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

9.3. Test Procedure

- 1, Connected the EUT's antenna port to spectrum analyzer by 10dB attenuator.
- 2, Follow the test procedure as described in ANSI C.10: 2009 Clause 6.11.2.3 to measure out each test modes power density with 3KHz.

9.4.Test Results

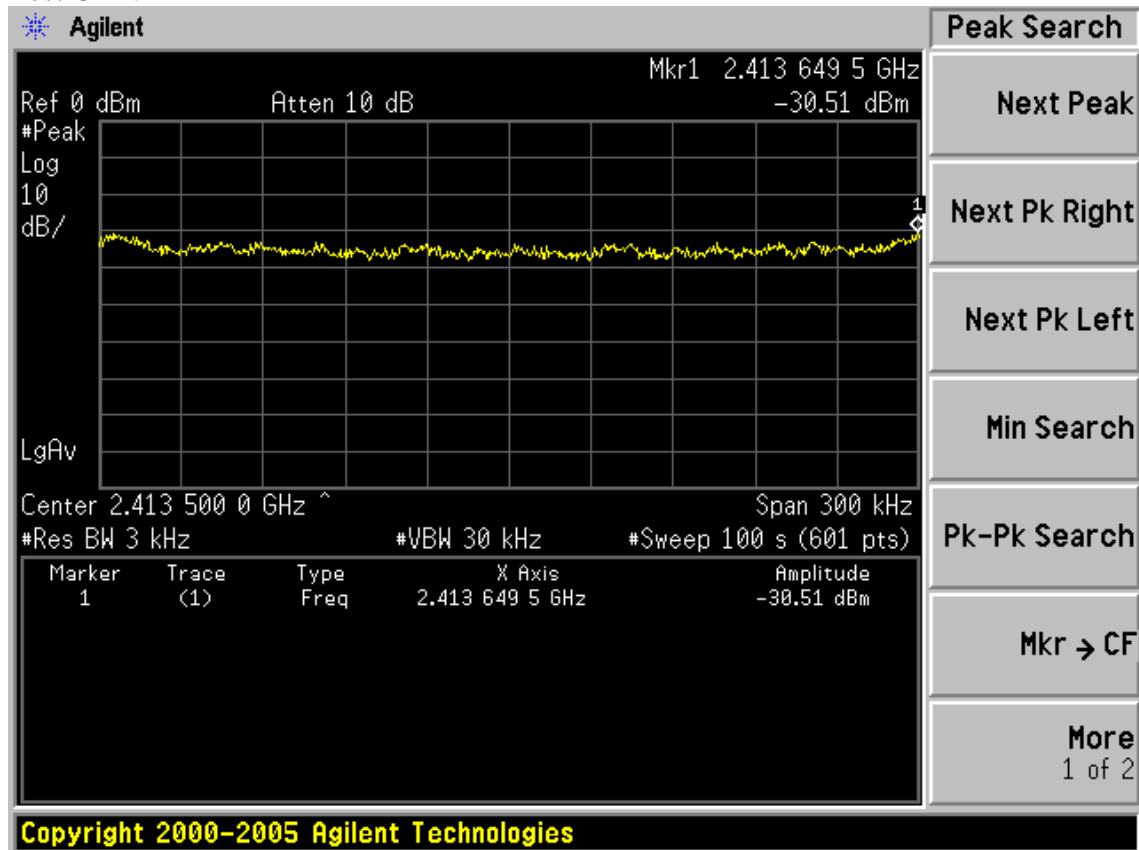
| | | |
|---------------------------|--------------------|--------------------|
| EUT: Wireless USB Adapter | | |
| M/N: DWA-140 | | |
| Test date: 2010/04/04 | Pressure:100.1 kpa | Humidity:60% |
| Tested by:Paul_Tian | Test site: RF site | Temperature : 23°C |

| Cable loss:0.6dB | | Attenuator loss: 20dB | | Antenna Gain: 0dBi | | | |
|------------------|------|------------------------------|------------------------------------|------------------------------|------------------------------------|-----------------------------------|---------------------|
| Mode | CH | Result | | | | | Limit (dBm/3KHz) |
| | | Measured Level (dBm/3KHz) | Chain1 Power density (dBm/3KHz) | Measured Level (dBm/3KHz) | Chain2 Power density (dBm/3KHz) | Total Power density (dBm/3KHz) | |
| 11b | CH1 | -30.51 | -9.91 | N/A | N/A | -9.91 | 8 |
| | CH6 | -30.85 | -10.25 | N/A | N/A | -10.25 | 8 |
| | CH11 | -32.66 | -12.06 | N/A | N/A | -12.06 | 8 |
| 11g | CH1 | -34.81 | -14.21 | N/A | N/A | -14.21 | 8 |
| | CH6 | -33.69 | -13.09 | N/A | N/A | -13.09 | 8 |
| | CH11 | -33.12 | -12.52 | N/A | N/A | -12.52 | 8 |
| 11n HT20 | CH1 | -36.75 | -14.46 | -38.01 | -17.41 | -13.72 | 8 |
| | CH6 | -35.06 | -14.57 | -37.00 | -16.40 | -12.31 | 8 |
| | CH11 | -35.17 | -17.60 | -36.49 | -15.89 | -12.17 | 8 |
| 11n HT40 | CH1 | -38.20 | -17.33 | -39.81 | -19.21 | -15.32 | 8 |
| | CH5 | -37.93 | -16.48 | -39.73 | -19.13 | -15.13 | 8 |
| | CH9 | -37.08 | -14.46 | -38.80 | -18.20 | -14.25 | 8 |
| Conclusion: PASS | | | | | | | |

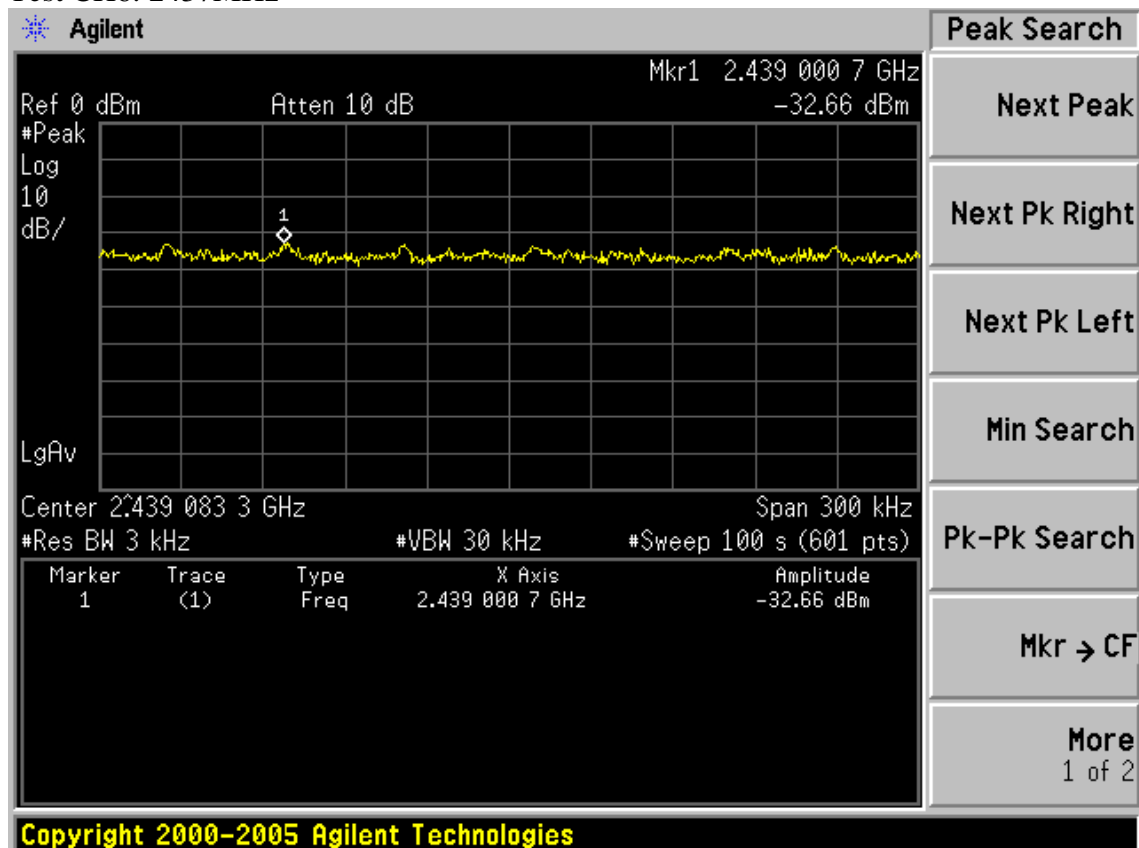
Chain 1:

Test Mode: IEEE 802.11b TX

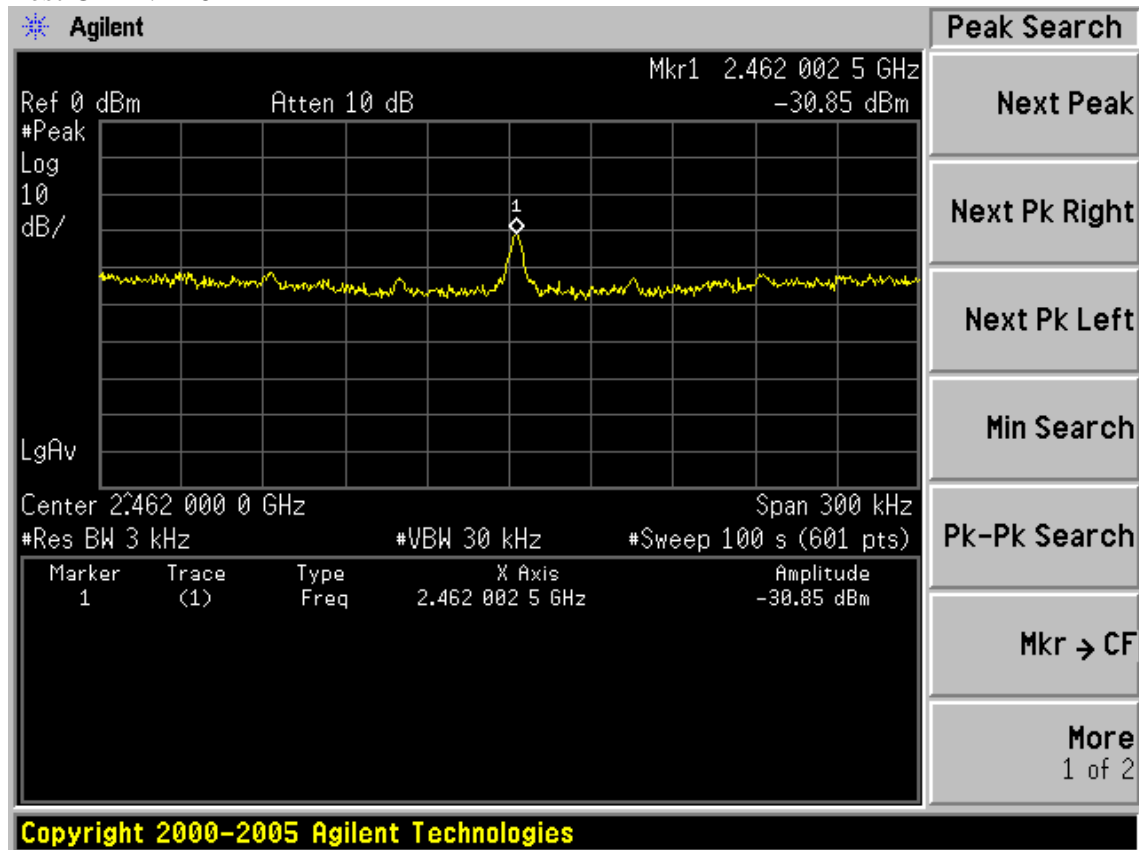
Test CH1: 2412MHz



Test CH6: 2437MHz

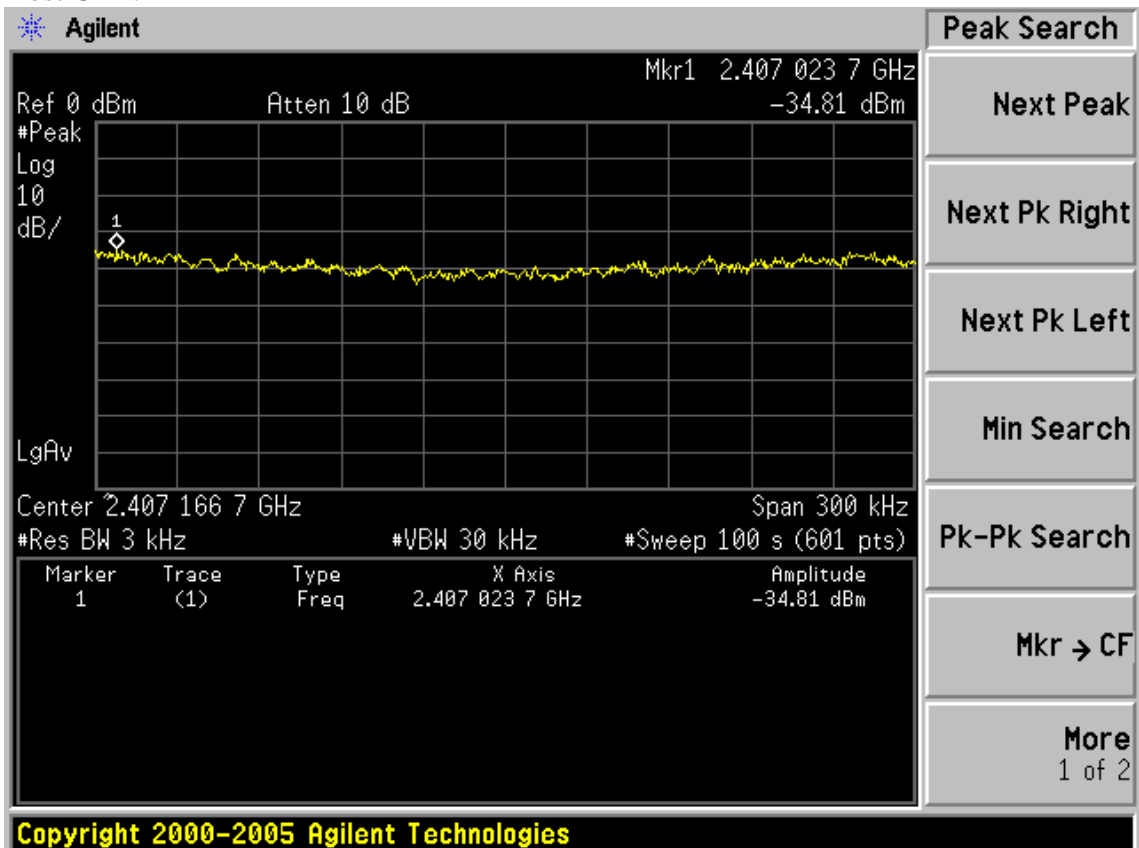


Test CH1: 2462MHz

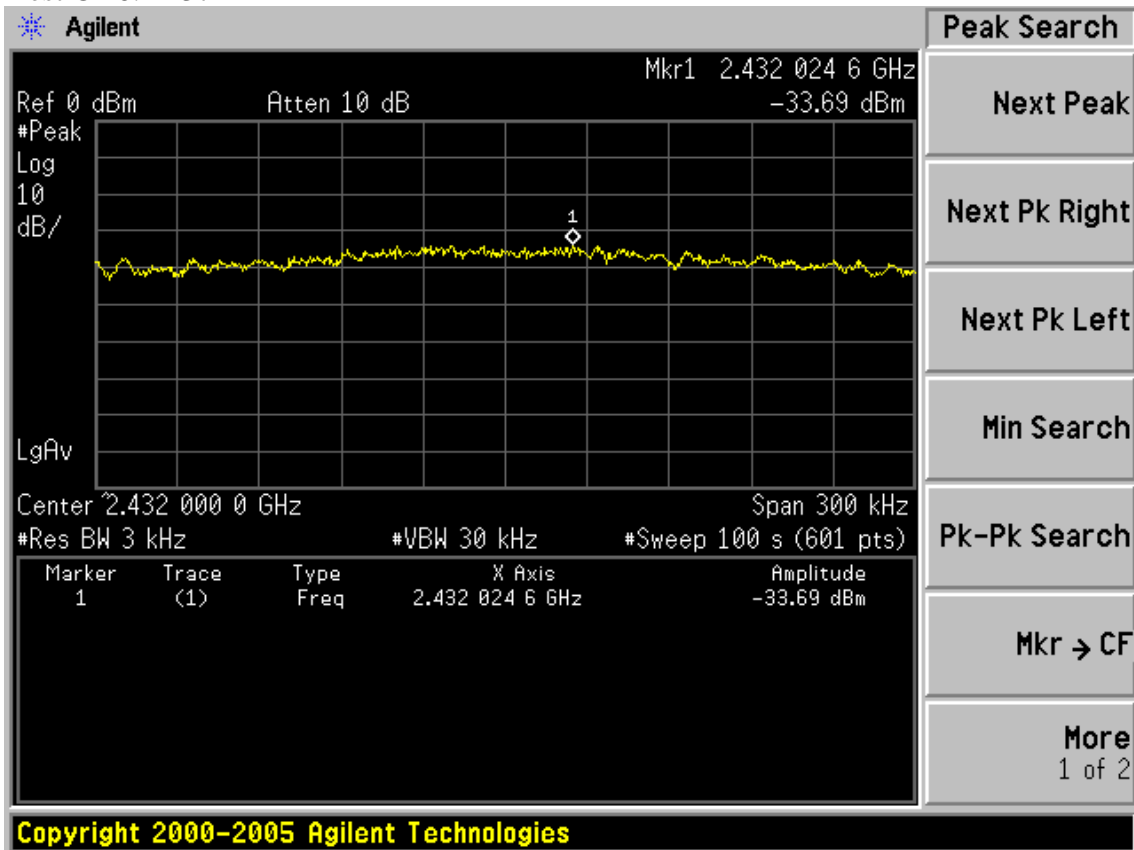


Test Mode: IEEE 802.11g TX

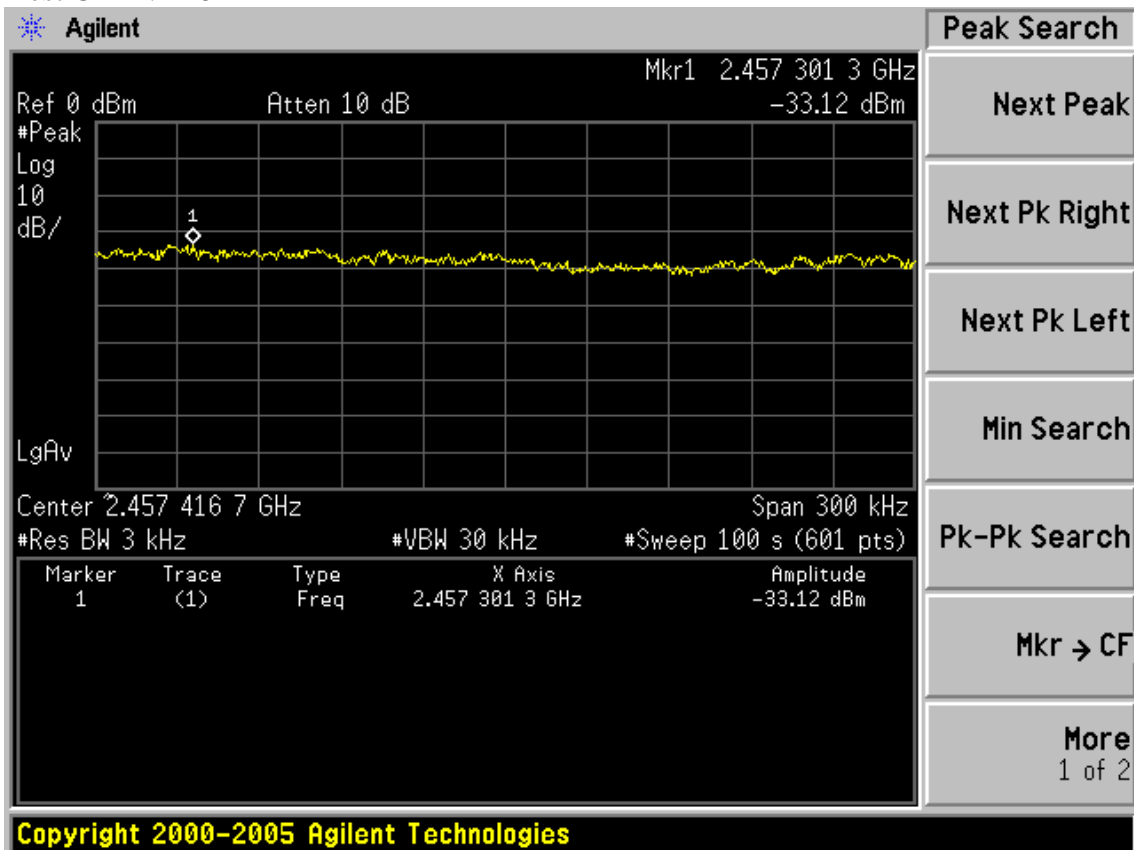
Test CH1: 2412MHz



Test CH6: 2437MHz

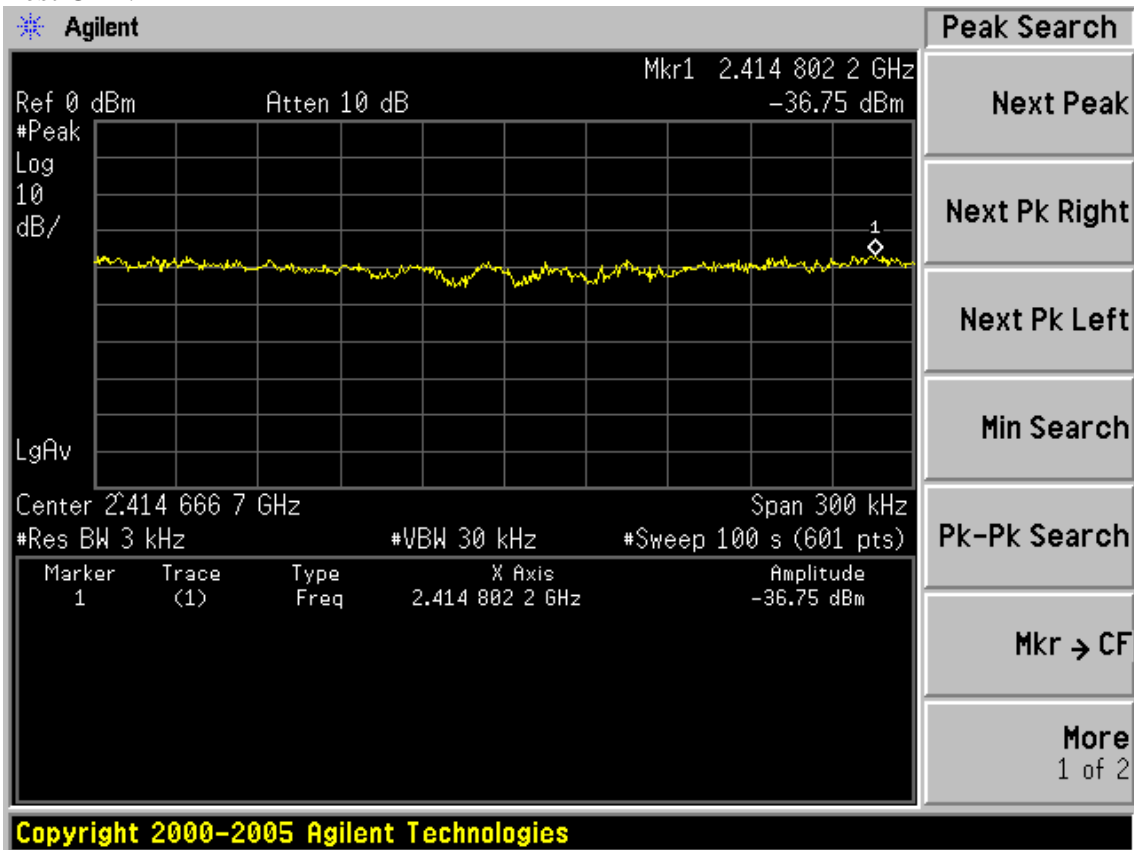


Test CH11: 2462MHz

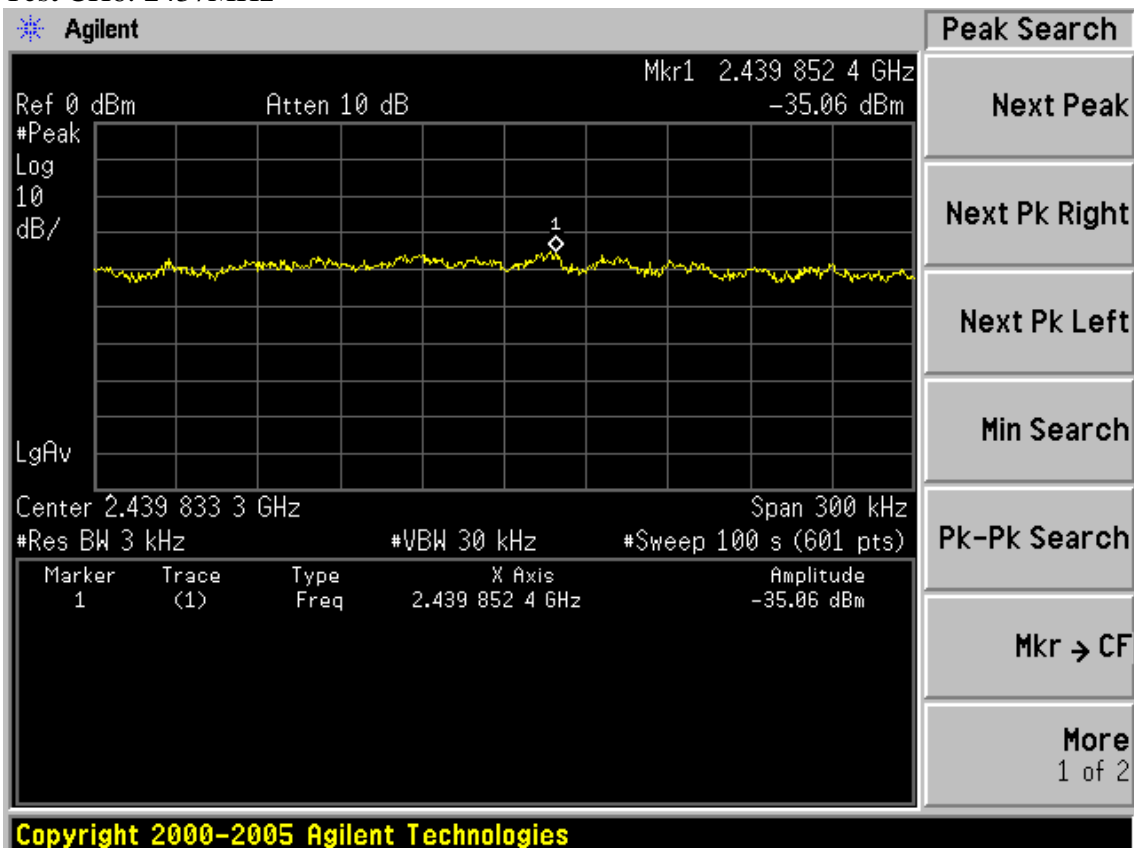


Test Mode: IEEE 802.11n HT20 TX

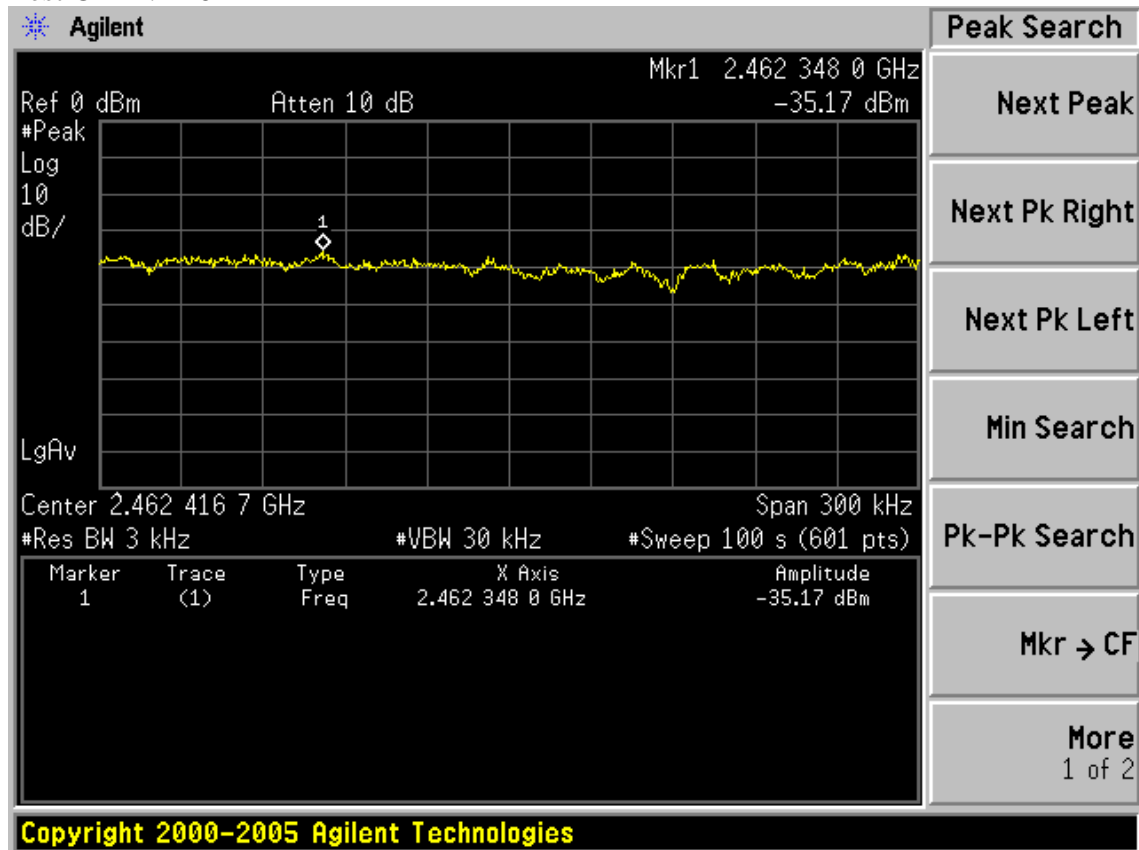
Test CH1: 2412MHz



Test CH6: 2437MHz

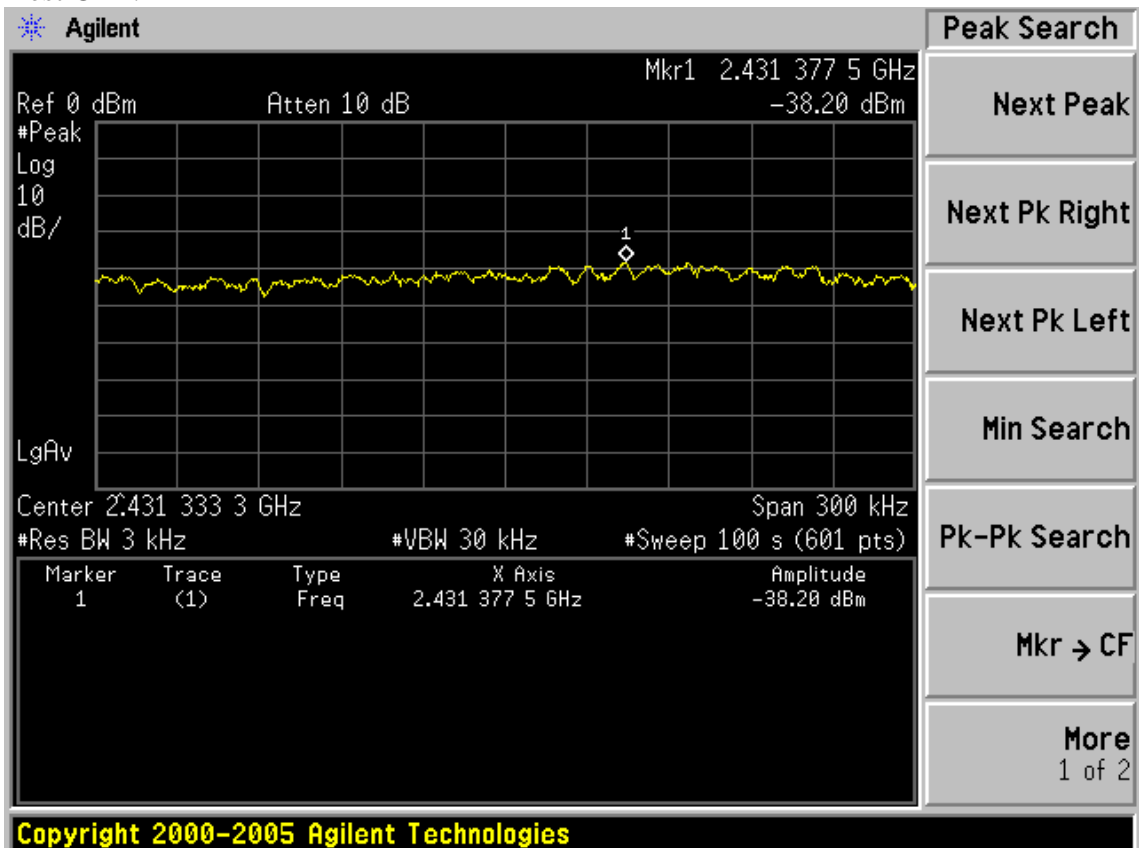


Test CH1: 2462MHz

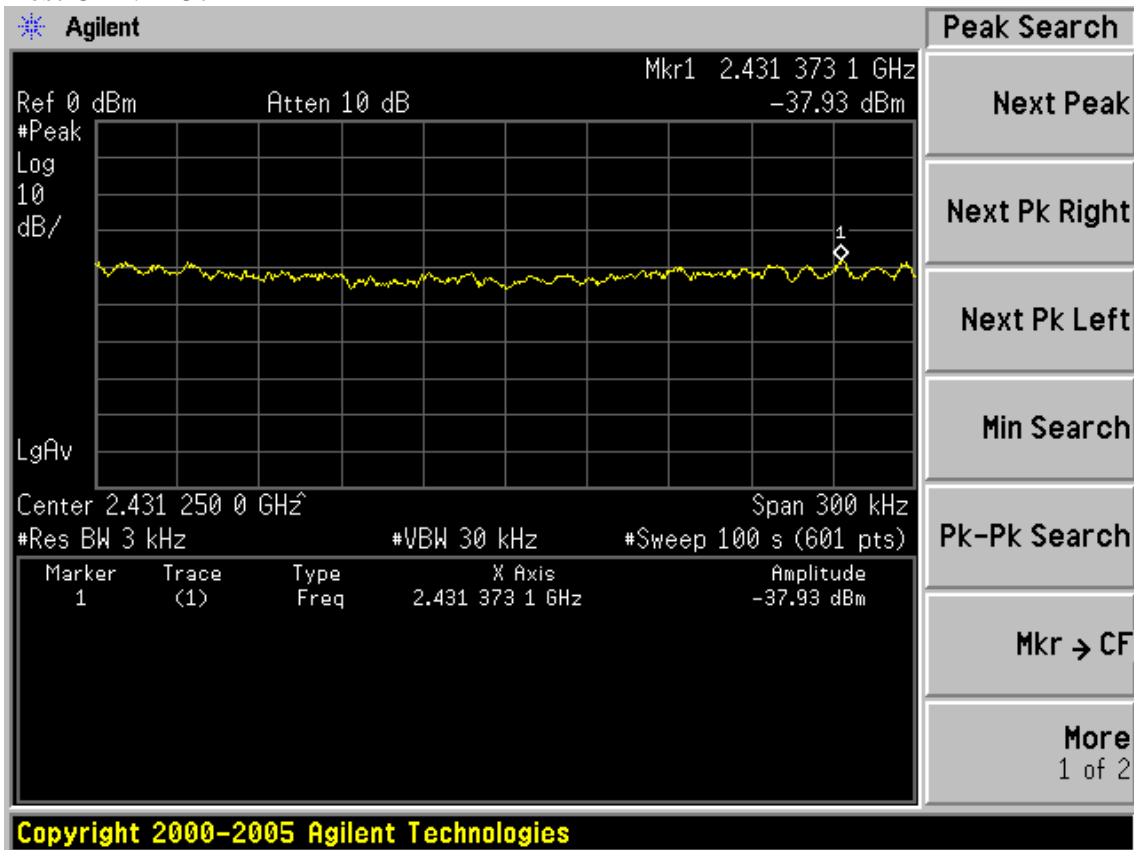


Test Mode: IEEE 802.11n HT40 TX

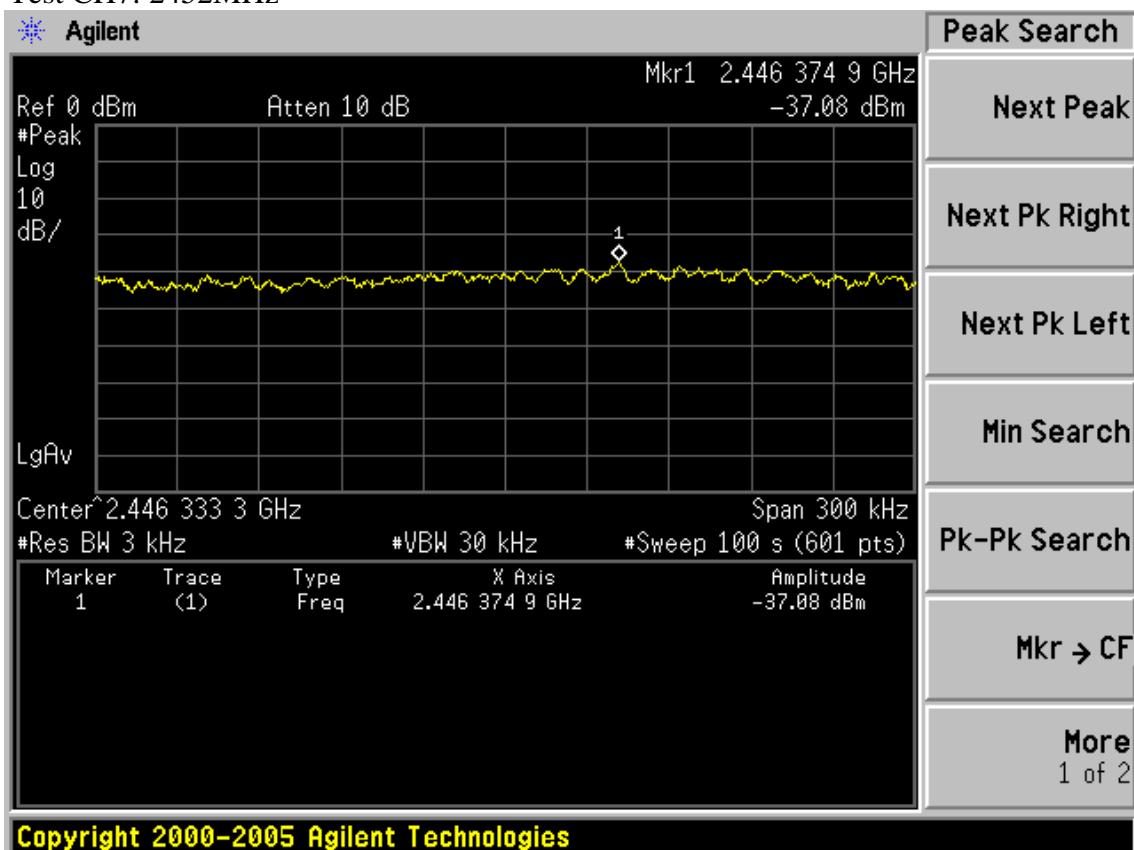
Test CH1: 2422MHz



Test CH4: 2437MHz



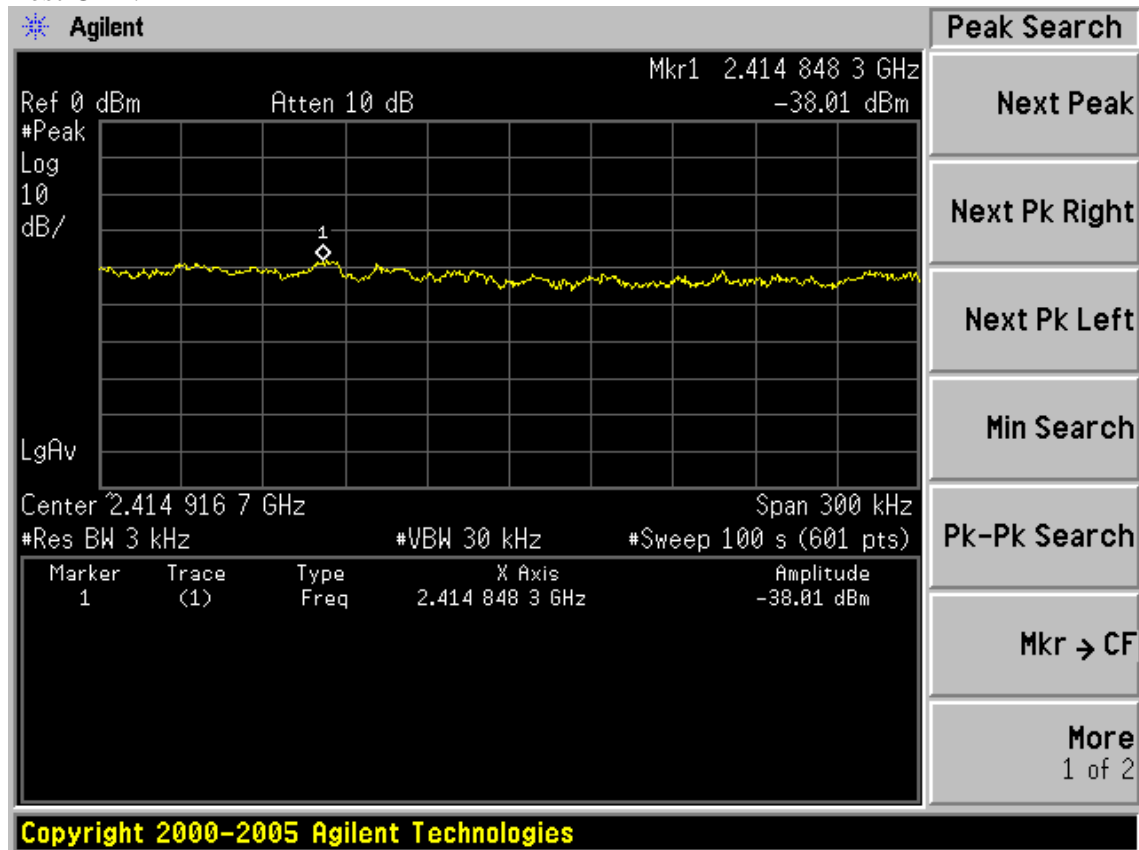
Test CH7: 2452MHz



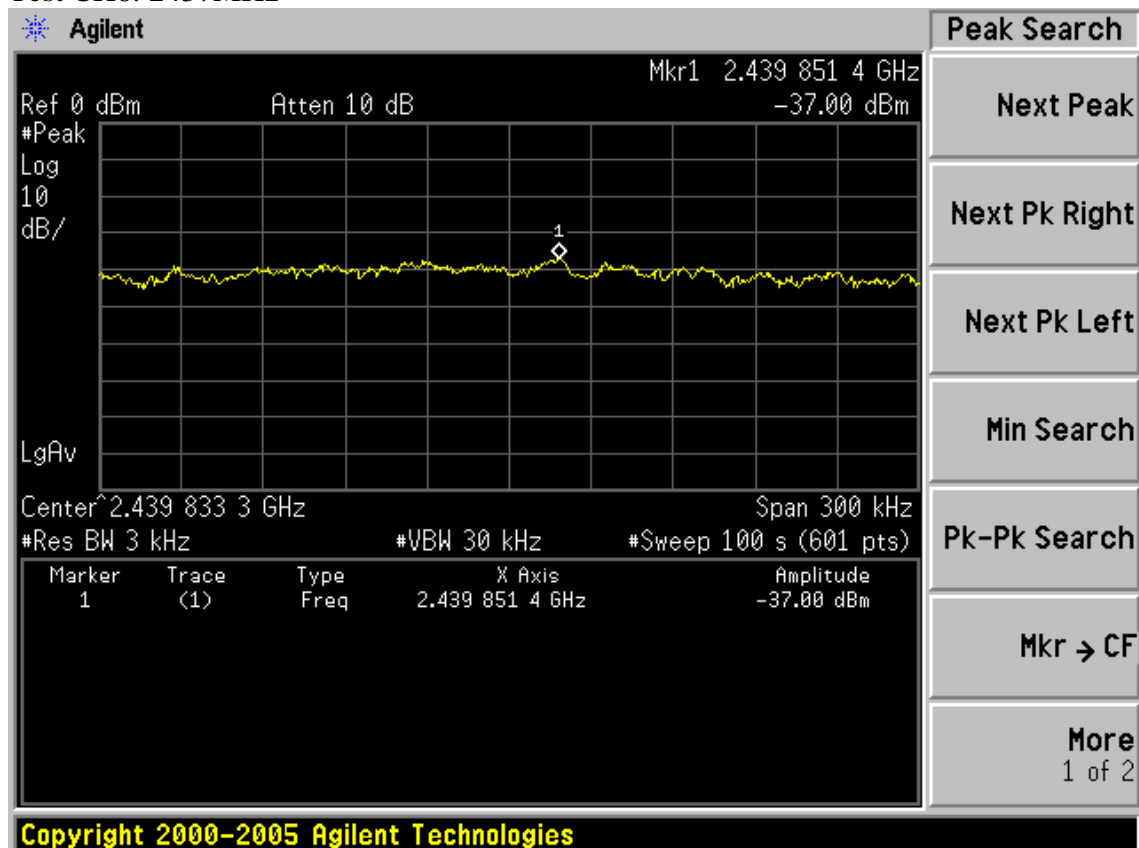
Chain 2:

Test Mode: IEEE 802.11n HT20 TX

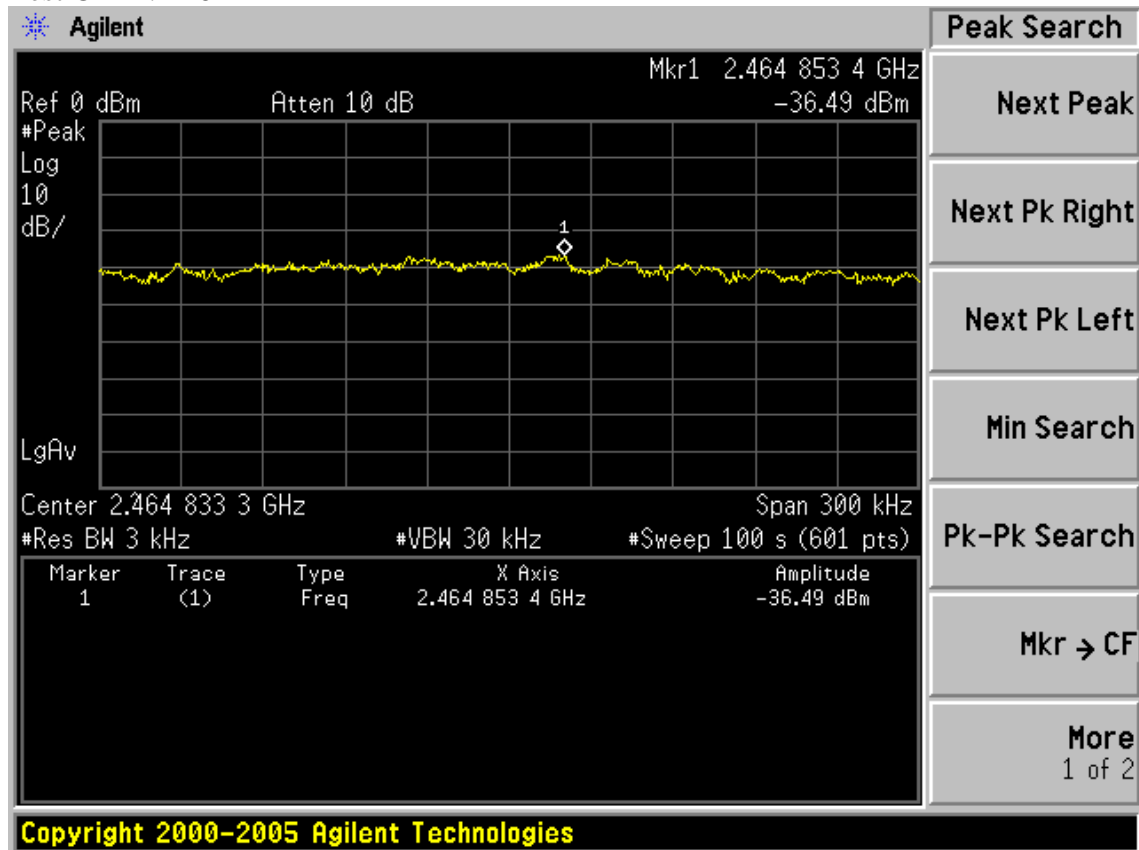
Test CH1: 2412MHz



Test CH6: 2437MHz

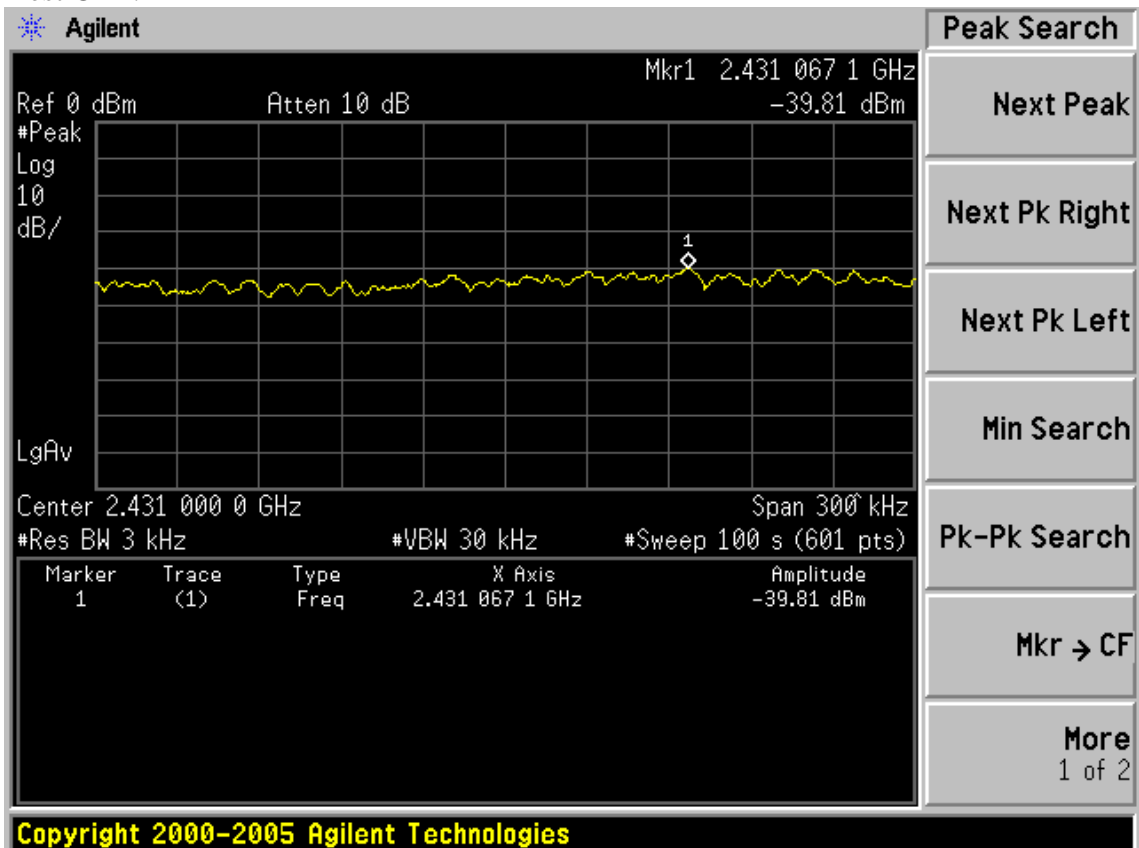


Test CH1: 2462MHz

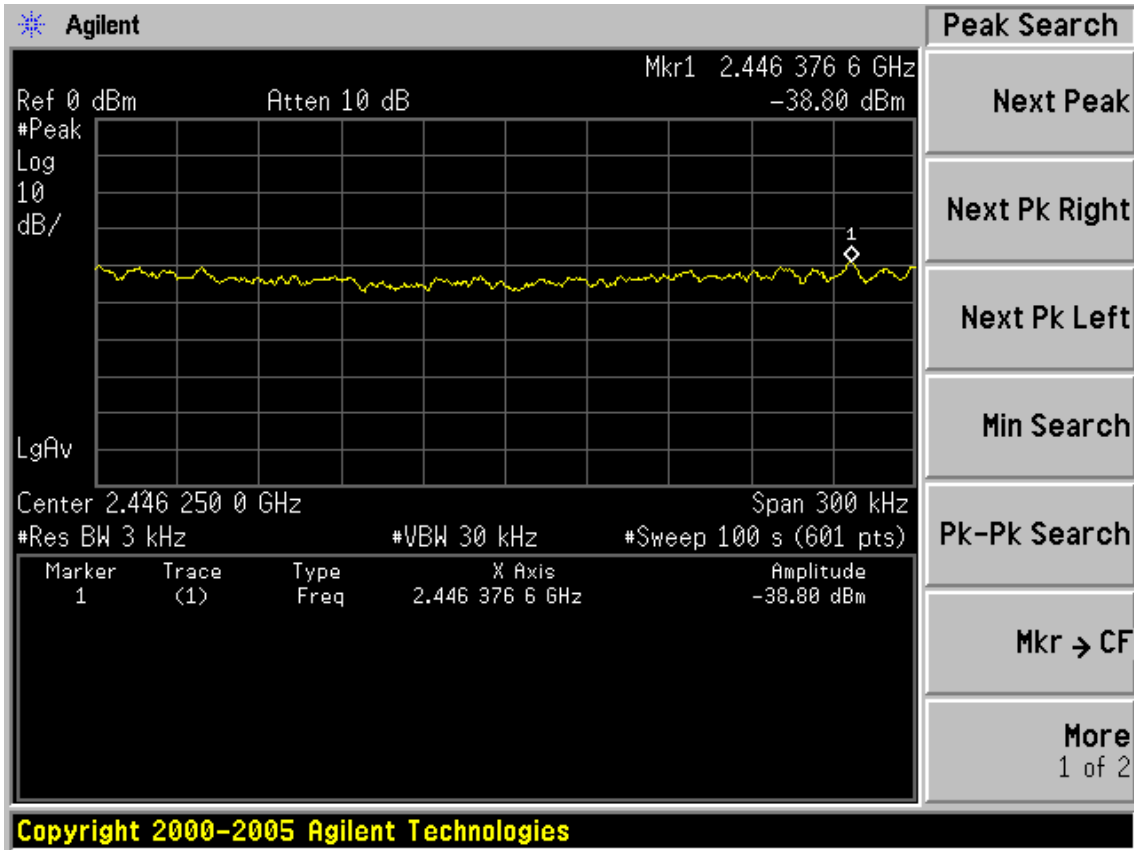


Test Mode: IEEE 802.11n HT40 TX

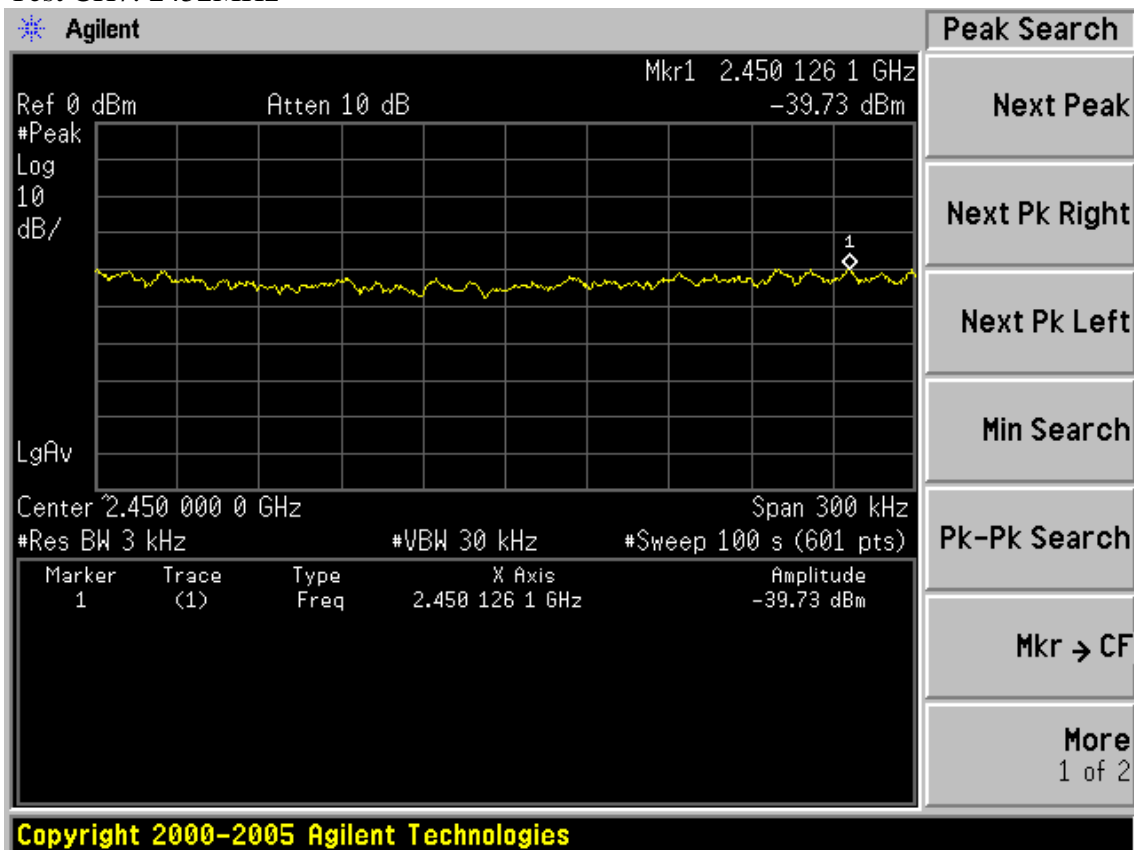
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



10. ANTENNA REQUIREMENT

10.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2 ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product are integral PCB MIMO 2x2 Antennas and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 0dBi.

11.DEVIATION TO TEST SPECIFICATIONS

[NONE]