



**ETS Dr.GenZ Taiwan PS Co., Ltd.**

**FCC Registration No.: 930600**

**Industry Canada filed test laboratory Reg. No. IC 5679**

**Accredited Testing Laboratory**

**A2LA Cert.No.: 2300.01**

# **FCC**

# **TEST - REPORT**

**FCC Part 15 C for IEEE 802.11 b device**

**FCC ID: TER-AP500-ADV**

**Test report no.: W6M20506-5956-C-1**

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## **1 General Information**

### **1.1 Notes**

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has Passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems.

The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.5.

The test report may only be reproduced or published in full.

Reproduction or publication of extracts from the report requires the prior written approval of the ETS DR.GENZ TAIWAN PS CO., LTD.

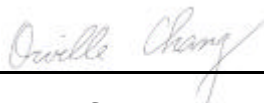
#### **Specific Conditions:**

Usage of the hereunder tested device in combination with other integrated or external antennas requires at least additional output power measurements, spurious emission measurements, conducted emission measurements (AC supply lines) and radio frequency exposure evaluations for each individual configuration performed, for certification by FCC.

The test sample is able to work according IEEE 802.11 b.

This report is related to FCC Part 15 C (DSSS device).

#### **Tester:**

|            |               |                                                                                      |
|------------|---------------|--------------------------------------------------------------------------------------|
| 21.06.2005 | Orville Chung |  |
| Date       | ETS-Lab. Name | Signature                                                                            |

#### **Technical responsibility for area of testing:**

|            |              |                                                                                      |
|------------|--------------|--------------------------------------------------------------------------------------|
| 21.06.2005 | Steven Chung |  |
| Date       | ETS Name     | Signature                                                                            |

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## **1.2 Testing laboratory**

### **1.2.1 Location**

OATS  
No.5-1, Shuang Sing Village,  
LiShuei Rd., Wanli Township,  
Taipei County 207, Taiwan (R.O.C.)

Company  
ETS Dr.Genx Taiwan PS Co., Ltd.  
6F, NO. 58, LANE 188, RUEY-KUANG RD.  
NEIHU, TAIPEI 114, TAIWAN R.O.C.  
Tel : 886-2-66068877  
Fax : 886-2-66068879

### **1.2.2 Details of accreditation status**

#### **Accredited testing laboratory**

**A2LA-registration number: 2300.01**

**FCC filed test laboratory Reg. No. 930600**

**Industry Canada filed test laboratory Reg. No. IC 5679**

## **1.3 Details of approval holder**

|           |                                  |
|-----------|----------------------------------|
| Name      | : ValuePoint Networks, Inc.      |
| Street    | : 350 Townsend Street, Suite 320 |
| Town      | : San Francisco, CA 94107        |
| Country   | : USA                            |
| Telephone | : 415-979-0600                   |
| Fax       | : 415-358-4664                   |
| Contact   | : Mr. Allen Chou                 |
| Telephone | : 415-979-0600                   |

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## 1.4 Application details

Date of receipt of application : 08.06.2005  
Date of receipt of test item : 09.06.2005  
Date of test : from 09.06.2005 to 20.06.2005

## 1.5 General information of Test item

Type of test item : Wireless AP  
Model Number : SuperAP 500 ADV  
Hardware : APC 01-07  
Software : 2.6.3.4416  
Serial number : without  
Photos : see Annex

## Technical data

Frequency band : 2.4 GHz – 2.4835 GHz  
Frequency ( ch A) : 2.412 GHz  
Frequency ( ch B) : 2.437 GHz  
Frequency ( ch C) : 2.462 GHz  
Number of Channels : 11  
Operation modes : duplex  
Modulation Type : DSSS

Fixed point-to-point operation: ☐ Yes / ☒ No  
Type of Antenna : 9 dBi Omni-directional Antenna  
Antenna gain of Antenna : 9.0 dBi  
Antenna Power supply : 120VAC  
Emission designator : 17M5G1D

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Host device: none

Classification :

|                                              |                                     |
|----------------------------------------------|-------------------------------------|
| Fixed Device                                 | <input checked="" type="checkbox"/> |
| Mobile Device (Human Body distance > 20cm)   | <input type="checkbox"/>            |
| Portable Device (Human Body distance < 20cm) | <input type="checkbox"/>            |

**Transmitter****Unom****Power ( ch A)** : Conducted: 24.55dBm**Power ( ch B)** : Conducted: 24.27dBm**Power ( ch C)** : Conducted: 23.52dBm**Manufacturer:**  
(if applicable)

Name :./.

Street :./.

Town :./.

Country :./.

Additional information: The sample is using WLAN technology according IEEE 802.11 b. For this report the function according IEEE 802.11b is considered only. The scheme for frequency generation, spectrum spreading, receiver parameters, synchronization procedure, and other parameters are determined by the mentioned standard above.

**1.6 Test standards**

Technical standard : FCC RULES PART 15 / SUBPART C § 15.247

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## **2 Technical test**

### **2.1 Summary of test results**

No deviations from the technical specification(s) were ascertained in the course of the tests performed.



**or**

The deviations as specified in 2.5 were ascertained in the course of the tests performed.



### **2.2 Test environment**

|                               |                           |
|-------------------------------|---------------------------|
| Temperature                   | : 23 °C                   |
| Relative humidity content     | : 20 ... 75 %             |
| Air pressure                  | : 86 ... 103 kPa          |
| Details of power supply       | : 120 VAC (AC/DC adapter) |
| Extreme conditions parameters | : --                      |

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## 2.3 Test Equipment List

| No.          | Test equipment                                  | Type                | Serial No.            | Manufacturer                  | Next Cal. Date |
|--------------|-------------------------------------------------|---------------------|-----------------------|-------------------------------|----------------|
| ETSTW-CE 001 | EMI TEST RECEIVER                               | ESHS10              | 842121/013            | R&S                           | 2005/11/8      |
| ETSTW-CE 002 | PREREULATOR MODE DC POWER SUPPLY                |                     |                       |                               |                |
| ETSTW-CE 003 | AC POWER SOURCE                                 | APS-9102            | D161137               | GW                            |                |
| ETSTW-CE 004 | ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK | ESH3-Z5             | 840731/011            | R&S                           | 2006/11/8      |
| ETSTW-CE 005 | Line-Impedance Stabilisation Network            | NNBM 8126D          | 137                   | Schwarzbeck                   | 2006/11/3      |
| ETSTW-CE 006 | IMPULS-BEGRENZER PULSE LIMITER                  | ESH3-Z2             | 100226                | R&S                           | 2006/11/10     |
| ETSTW-CE 007 | SPECTRUM ANALYZER 5GHz                          | FSB                 | 849670/001            | R&S                           |                |
| ETSTW-CE 008 | ABSORBING CLAMP                                 | MDS 21              | 3469                  | ABSORPTIONS-MESSWANDLER-ZANGE | 2006/11/4      |
| ETSTW-CE 009 | TEMP.&HUMIDITY CHAMBER                          | GTH-225-40-1P-U     | MAA0305-009           | GIANT FORCE                   | 2005/5/10      |
| ETSTW-CE 010 | Comb Generator-conducted                        |                     |                       | ETS                           |                |
| ETSTW-CE 011 | Power Line Conducted Emission Only              |                     |                       | ETS                           |                |
| ETSTW-CE 012 | Dual-Phase-V-Network                            | NNB-2/16Z           | 03/10201              | Telemeter                     | 2006/4/11      |
| ETSTW-CS 001 | SIGNAL GENERATOR                                | SMX                 | 849254/003            | R&S                           | 2005/10/31     |
| ETSTW-CS 002 | COUPLING AND DECOUPLING NETWORK                 | CDN S751            | 19263                 | CHAFFNER                      | 2006/11/3      |
| ETSTW-CS 003 | COUPLING AND DECOUPLING NETWORK                 | CDN T400            | 19820                 | CHAFFNER                      | 2006/11/3      |
| ETSTW-CS 004 | COUPLING AND DECOUPLING NETWORK                 | CDN M016            | 20053                 | CHAFFNER                      | 2006/11/3      |
| ETSTW-CS 005 | RF Power Amplifier                              | 100A250A            | 306547                | AR                            | 2005/11/3      |
| ETSTW-CS 006 | Terminal 500 Load                               | 50T-116 M           |                       | JFW                           |                |
| ETSTW-CS 007 | Terminal 500 Load                               | 50T-116 F           |                       | JFW                           |                |
| ETSTW-CS 008 | 6 dB Attenuator                                 | HFP-5100-3/06 N M/F | 2010876106            |                               |                |
| ETSTW-RE 001 | Controller                                      | CD 1000             | C01000/154/867/004/L  | Heinrich Deisel               |                |
| ETSTW-RE 002 | Function Generator                              | 33220A              | MY43004982            | Agilent                       | 2005/11/3      |
| ETSTW-RE 003 | EMI TEST RECEIVER                               | ESI                 | 831438/001            | R&S                           | 2005/11/16     |
| ETSTW-RE 004 | EMI TEST RECEIVER                               | ESI                 | 831459/012            | R&S                           | 2005/11/9      |
| ETSTW-RE 005 | EMI TEST RECEIVER                               | ESVS10              | 843207/020            | R&S                           | 2005/11/1      |
| ETSTW-RE 008 | Controller                                      | HD100               | C0100-L/047/6670703/L | Heinrich Deisel               |                |
| ETSTW-RE 009 | Controller                                      | HD100               | 100/341               | Heinrich Deisel               |                |
| ETSTW-RE 010 | PROGRAMMABLE LINEAR POWER SUPPLY                | LPS-305             | 30503070181           | MOTECH                        |                |
| ETSTW-RE 011 | PROGRAMMABLE LINEAR POWER SUPPLY                | LPS-305             | 30503070165           | MOTECH                        |                |
| ETSTW-RE 012 | TUNABLE BANDREJECT FILTER                       | D.C 0309            | 146                   | K&L                           |                |
| ETSTW-RE 013 | TUNABLE BANDREJECT FILTER                       | D.C 0036            | 397                   | K&L                           |                |



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|               |                                       |                  |                |             |            |
|---------------|---------------------------------------|------------------|----------------|-------------|------------|
| ETSTW-RE 014  | DUAL TRACKING WITH 5V FIXED           | GPC-3030D        |                | GW          |            |
| ETSTW-RE 015  | ANTENNA                               | HK116            | 841489/003     | R&S         |            |
| ETSTW-RE 016  | ANTENNA                               | HL223            | 848953/006     | R&S         |            |
| ETSTW-RE 017  | ANTENNA                               | HL025            | 352886/001     | R&S         |            |
| ETSTW-RE 018  | ANTENNA                               | AT4560           | 27212          | AR          | 2006/11/7  |
| ETSTW-RE 019  | ANTENNA , HORN                        | 22240-25         | 121074         | FM          |            |
| ETSTW-RE 020  | MICROWAVE HORN ANTENNA                | AT4002A          | 306915         | AR          |            |
| ETSTW-RE 021  | SWEEP GENERATOR                       | SWM05            | 835130/010     | R&S         | 2005/11/10 |
| ETSTW-RE 022  | AMPLIFIER                             | 8447D            | 2944A09837     | Agilent     | 2005/11/1  |
| ETSTW-RE 023  | Shielded room                         | SR 1             |                | Frankonia   |            |
| ETSTW-RE 024  | Anechoic Chamber                      | CHC 1            |                | Frankonia   |            |
| ETSTW-RE 025  | Anechoic Chamber                      | CHC 2            |                | Frankonia   |            |
| ETSTW-RE 026  | Open Area Test Site                   | 10m              |                | ETS         |            |
| ETSTW-RE 027  | Passive Loop Antenna                  | 6512             | 34563          | EMCO        | 2006/6/29  |
| ETSTW-RE 028  | Log-Periodic DipoleArray Antenna      | 3148             | 34429          | EMCO        | 2006/6/14  |
| ETSTW-RE 029  | Biconical Antenna                     | 3109             | 33524          | EMCO        | 2006/6/16  |
| ETSTW-RE 030  | Double-Ridged Waveguide Horn Antenna  | 3117             | 35224          | EMCO        | 2006/5/4   |
| ETSTW-RE 031  | Comb Generator-radiated               |                  |                | ETS         |            |
| ETSTW-RE 032  | Millivoltmeter                        | URV 55           | 849086/013     | R&S         | 2005/11/17 |
| ETSTW-RE 033  | 4CH 1GHz 5GS/s DSO                    | WAVERUNNER 6100A | LCRY0604P14508 | LeCory      |            |
| ETSTW-RE 034  | Power Sensor                          | URV5-Z4          | 839313/006     | R&S         | 2005/11/17 |
| ETSTW-RE 035  | 1.5GHz Active Voltage Probe           | HFP1500          | 2332           | LeCory      |            |
| ETSTW-RE 036  | 100MHz High Voltage Diff Probe        | ADP305           | 3305           | LeCory      |            |
| ETSTW-RE 037  | Log-Periodic DipoleArray Antenna      | 3148             | 00034546       | EMCO        | 2006/11/17 |
| ETSTW-RE 038  | Log-Periodic DipoleArray Antenna      | 3148             | 00034547       | EMCO        | 2006/11/17 |
| ETSTW-RE 039  | Biconical Antenna                     | 3110B            | 41760          | EMCO        | 2006/11/17 |
| ETSTW-RE 040  | Biconical Antenna                     | 3110B            | 41761          | EMCO        | 2006/11/17 |
| ETSTW-RE 041  | Anechoic Chamber                      | CHC 3            |                | Frankonia   |            |
| ETSTW-RE 042  | ANTENNA                               | HK116            | 100172         | R&S         | 2007/1/13  |
| ETSTW-RE 043  | ANTENNA                               | HL223            | 100166         | R&S         | 2006/4/15  |
| ETSTW-RE 044  | ANTENNA                               | HL050            | 100094         | R&S         |            |
| ETSTW-RE 048  | Triple Loop Antenna                   | HXYZ 9170        | HXYZ 9170-134  | Schwarzbeck | 2006/3/21  |
| ETSTW-EMI 001 | HARMONICS 1000                        | HAR1000-1P       | 93             | EMC-PARTNER | 2005/11/17 |
| ETSTW-EMS 001 | Clamp BASELSTRASSE 160 CH-4242 LAUFEN | CN-EFT1000       | 354            | EMC-PARTNER | 2005/11/1  |
| ETSTW-EMS 002 | Frequency Converter                   | YF-6020          | 0308014        |             |            |
| ETSTW-EMS 003 | EMC Immunity Test System              | TRA2000IN6       | 579            | EMC-PARTNER | 2005/11/1  |

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|               |                                                       |                 |             |                          |             |
|---------------|-------------------------------------------------------|-----------------|-------------|--------------------------|-------------|
| ETSTW-EMS 004 | ESD generator minizap                                 | ESD2000         | 016         | EMC-PARTNER              | 2005/11/1   |
| ETSTW-EMS 005 | Attenautor (500)                                      | VERI50          | 051         | EMC-PARTNER              | 2006/8/30   |
| ETSTW-EMS 006 | Attenautor (1 KO)                                     | VERI1K          | 019         | EMC-PARTNER              | 2006/10/20  |
| ETSTW-EMS 007 | 20GO Divider                                          | ESD-VERI-V      | 021         | EMC-PARTNER              | 2006/3/16   |
| ETSTW-RS 001  | 14" COLOR VIDEO MONITOR                               | TP-1480HR       | P009799     | TOPICA                   |             |
| ETSTW-RS 002  | 14" COLOR VIDEO MONITOR                               | TP-1480HR       | P009814     | TOPICA                   |             |
| ETSTW-RS 003  | RF Power Amplifier                                    | 30S1G3          | 306933      | AR                       |             |
| ETSTW-RS 004  | RF Power Amplifier                                    | 150W1000        | 307009      | AR                       | 2005/11/18  |
| ETSTW-RS 005  | Electric Field Probe Type 8.3                         | EMR-20          | BN 2244/20  | GW                       | 2005/9/3    |
| ETSTW-RS 006  | SIGNAL GENERATOR                                      | SML03           | 101551      | R&S                      | 2005/11/15  |
| ETSTW-RS 007  | AUDIO ANALYZER                                        | UPA3            | 843458/029  | R&S                      | 2005/11/15  |
| ETSTW-EMS 008 | Safety Test Solutions                                 | ELT-400         | E-0039      | Narda                    | 2006/1/4    |
| ETSTW-EMS 009 | Magnetic Field Antenna                                | MF1000-1        | 104         | EMC-PARTNER              | 2006/12/2   |
| ETSTW-GSM 01  | SIM Simulator                                         | IT3             | B2004-50106 | ORGA<br>Testsystems GmbH |             |
| ETSTW-GSM 02  | Universal Radio Communication Tester                  | CMU 200         | 103489      | R&S                      |             |
|               | Parts of Anite SAT (6)E Platform Protocol Test System |                 |             |                          |             |
| ETSTW-GSM 03  | Agilent 8960 Test Set 1                               | E5515C          | GB44052675  | Agilent                  | 2006/7/14   |
| ETSTW-GSM 04  | Agilent 8960 Test Set 2                               | E5515C          | GB44052665  | Agilent                  | 2006/7/14   |
| ETSTW-GSM 05  | Agilent 8960 Test Set 3                               | E5515C          | GB44052852  | Agilent                  | 2006/7/17   |
| ETSTW-GSM 06  | Agilent 8960 Test Set 4                               | E5515C          | GB44052984  | Agilent                  | 2006/7/16   |
| ETSTW-GSM 07  | Agilent 8960 Test Set 5                               | E5515C          | GB44052658  | Agilent                  | 2006/7/14   |
| ETSTW-GSM 08  | Agilent 8960 Test Set 6                               | E5515C          | GB44052666  | Agilent                  | 2006/7/16   |
| ETSTW-GSM 09  | Controler PC                                          | Dell GX 270     | 700F61J     | Dell                     |             |
| ETSTW-GSM 10  | Combiner Wessex / Anite                               | B4605/100       | 053         | Wessex / Anite           | 07.06       |
| ETSTW-GSM 11  | GSM 850,900,1800,1900 Test system                     | TS8950G         |             | Rohde & Schwarz          | 11.05       |
| ETSTW-GSM 12  | Acoustical Calibrator                                 | 4231            | 2463874     | Brüel&Kjær               |             |
| ETSTW-GSM 13  | Conditioning Amplifier                                | 2690-0S2        | 2437856     | Brüel&Kjær               |             |
| ETSTW-GSM 14  | Telephone Test Head                                   | 4602B           | 2465324     | Brüel&Kjær               | 2005/11/17  |
| ETSTW-GSM 15  | Mouth Simulator                                       | 4227            | 2462516     | Brüel&Kjær               |             |
| ETSTW-GSM 16  | TEMP.&HUMIDITY CHAMBER                                | GTH-120-40-1P-U | MAA0501002  | GIANT FORCE              | 12/290/2005 |
| ETSTW-GSM 17  | ANTENNT COPLER                                        | CMU-Z10         | 100988      | R&S                      |             |

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## 2.4 General Test Procedure

**POWER LINE CONDUCTED INTERFERENCE:** The procedure used was ANSI STANDARD C63.4-2003 using a 50 $\mu$ H LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

**RADIATION INTERFERENCE:** The test procedure used was according to ANSI STANDARD C63.4-2003 employing a spectrum analyzer. For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The ambient temperature of the UUT was 23°C with a humidity of 40 %.

**FORMULA OF CONVERSION FACTORS:** The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dB $\mu$ V) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

|            |                                                          |
|------------|----------------------------------------------------------|
| Freq (MHz) | METER READING + ACF + CABLE LOSS (to the receiver) = FS  |
| 33         | 20 dB $\mu$ V + 10.36 dB + 6 dB = 36.36 dB $\mu$ V/m @3m |

The UUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table) and arranged according to ANSI C63.4-2000 Section 13.1.2. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
- (4) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a)(1)-(a)(3) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this Section, whichever is the higher frequency range of investigation.

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.

Measurements were made by ETS Dr.Genx Taiwan PS Co., Ltd. at the registered open field test site located at No.5-1, Shuang Sing Village, LiShuei Rd., Wanli Township, Taipei County 207, Taiwan (R.O.C.) The Registration Number: 930600.

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When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

When the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

The formula is as follows:

Average = Peak + Duty Factor

Duty Factor =  $20 \log (\text{dwell time}/T)$

T = 100ms when the pulse train period is over 100 ms or the period of the pulse train.

Modified Limits for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

ANTENNA & GROUND:

**This unit uses 9 dBi Omni- directional Antenna . (see photos)**

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**3 Test results (enclosure)**

| TEST CASE                                             | Para. Number | Required                            | Test passed                         | Test failed              |
|-------------------------------------------------------|--------------|-------------------------------------|-------------------------------------|--------------------------|
| Peak Output Power                                     | 15.247(b)(3) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Equivalent radiated Power                             | 15.247(b)(3) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Spurious Emissions radiated – Transmitter operating   | 15.247(c)    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Band Edge Measurement                                 | 15.247(c)    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Minimum 6 dB Bandwidth                                | 15.247(a)(2) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Peak Power Spectral Density                           | 15.247(d)    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Radiated Emission from Digital Part And Receiver L.O. | 15.109       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Power Line Conducted Emission                         | 15.207       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

The follows is intended to leave blank.

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### 3.1 Peak Output Power (transmitter)

FCC Rule: 15.247(b)(3)

This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

The power was measured with modulation (declared by the applicant).

| Test condition                 |                           | Conducted Power |           |           |
|--------------------------------|---------------------------|-----------------|-----------|-----------|
|                                |                           | Channel A       | Channel B | Channel C |
|                                |                           | [dBm]           | [dBm]     | [dBm]     |
| $T_{nom} = 23^{\circ}\text{C}$ | $V_{nom} = 120 \text{ V}$ | 24.55           | 24.27     | 23.52     |
| Measurement uncertainty        |                           | < 3 dB          |           |           |

| Test condition<br>$T_{nom} = 23^{\circ}\text{C}$ , $V_{nom} = 120 \text{ V}$ | Signal Field strength TX highest power mode<br>dB $\mu\text{V/m}$ |
|------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Frequency [MHz]                                                              |                                                                   |
| 2437                                                                         | 119.42                                                            |
| Measurement uncertainty                                                      | < 3 dB                                                            |

Remarks: The diagrams for the field strength measurements are included in Appendix.

Limits:

| Frequency<br>MHz | Power<br>dBm |
|------------------|--------------|
| 902 - 928        | 30           |
| 2400 – 2483.5    | 30           |
| 5725 – 5850      | 30           |

In case of employing transmitter antennas having antenna gain  $> 6 \text{ dBi}$  and using fixed point-to-point operation consider §15.247 (b)(4)

Test equipment used: ETSTW-RE 003 , ETSTW-RE 012 , ETSTW-RE 017 , ETSTW-RE 024

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### 3.2 Equivalent isotropic radiated power

FCC Rule: 15.247(b)(3)

EIRP = max. conducted output power + antenna gain

EIRP = 24.55 dBm + 9dBi  
= 33.55 dBm

Limit: EIRP = +36 dBm for Antenna gain <6dBi

#### 3.2.1 Transmitter

##### Integral Antenna:

At the transmitter the measurement was transacted with the modulation declared by the manufacturer and the maximum available output power of the EUT.

In this arrangement the EUT fulfils the requirements of the FCC rules §15.247, subpart C, section b.

### 3.3 RF Exposure Compliance Requirements

The test sample is a WLAN access point intended for fixed installation.

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a “worst case” or conservative prediction.

$$S = \frac{PG}{4\pi R^2}$$

S – Power Density

P – Output power ERP

R – Distance

D – Cable Loss

AG – Antenna Gain G = AG-D

| Item | Unit               | Value     | Remarks          |
|------|--------------------|-----------|------------------|
| P    | mW                 | 285.10183 | Peak value       |
| D    | dB                 |           |                  |
| AG   | dBi                | 8         |                  |
| G    |                    | 9         | Calculated Value |
| R    | cm                 | 20        | Assumed value    |
| S    | mW/cm <sup>2</sup> | 0.45398   | Calculated value |

Limits:

| Limit for General Population / Uncontrolled Exposure |                                        |
|------------------------------------------------------|----------------------------------------|
| Frequency<br>(MHz)                                   | Power Density<br>(mW/cm <sup>2</sup> ) |
| 1500 – 100.000                                       | 1,0                                    |

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### 3.4 Transmitter Radiated Emissions in Restricted Bands

FCC Rules: 15.247 (c), 15.205, 15.209, 15.35

Radiated emission measurements were performed from 30 MHz to 1000 MHz.

For radiated emission tests, the analyzer setting was as followings:

Frequency  $\leq 1$  GHz, RBW:100 kHz, VBW: 100 kHz (Peak measurements)

Frequency  $> 1$  GHz, RBW: 1 MHz, VBW: 1 MHz (Peak measurements)

Frequency  $> 1$  GHz, RBW:1 MHz, VBW: 100Hz (Average measurements)

Limits.

For frequencies below 1GHz:

| Frequency of Emission<br>(MHz) | Field strength<br>(microvolts/meter) | Field Strength<br>(dB microvolts/meter) |
|--------------------------------|--------------------------------------|-----------------------------------------|
| 30 - 88                        | 100                                  | 40.0                                    |
| 88 - 216                       | 150                                  | 43.5                                    |
| 216 - 960                      | 200                                  | 46.0                                    |
| Above                          | 500                                  | 54.0                                    |

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of DSSS Systems:

“If the emission is pulsed, modify the unit for continuous operation, use the setting shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.”

The correction factor, based on the total channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

Duty cycle correction =  $20 \log (\text{dwell time} / 100\text{ms})$

No duty cycle correction was added to the reading.

$54.0\text{dB} \mu\text{V/m} + 20 \text{ dB} = 74 \text{ dB} \mu\text{V/m}$

Remarks: see attached diagrams

Test equipment used: ETS 0125, ETS 0271



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### **3.5 Spurious Emissions (tx)**

Spurious emission was measured with modulation (declared by manufacturer).

In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. 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) (see § 15.205(c))

FCC Rule: 15.247(c), 15.35

For out of band emissions that are close to or that exceed the 20 dB attenuation requirement described in the specification, radiated measurements were performed at a 3 m separation distance to determine whether these emissions complied with the general radiated emission requirement.

Limits:

For frequencies below 1GHz:

Max. reading – 20 dB

119.42 dB  $\mu$  V/m- 20 dB= 99.42 dB  $\mu$  V/m

Guidance on Measurement of DSSS Systems:

“If the emission is pulsed, modify the unit for continuous operation, use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.”

The correction factor, based on the total channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

Duty Cycle correction =  $20 \log (\text{dwell time}/100\text{ms})$

For frequencies above 1GHz (Peak measurements).

Limit = max. aver. Reading-20dB+20dB(because Peak detector is used)

99.42 dB  $\mu$  V/m

For frequencies above 1GHz (Average measurements).

Max. reading – 20dB

No duty cycle correction was added to the reading

119.42 dB  $\mu$  V/m- 20 dB= 99.42 dB  $\mu$  V/m

Remarks: see attached diagrams

Test equipment used: ETSTW-RE 003 , ETSTW-RE 012 , ETSTW-RE 015 , ETSTW-RE 016 , ETSTW-RE 017 , ETSTW-RE 024

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SAMPLE CALCULATION OF LIMIT. All results will be updated by an automatic measuring system in accordance with point 2.3.

Calculation of test results:

Such factors like antenna correction, cable loss, external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according the accreditation requirements.

The peak and average spurious emission plots was measured with the average limits.

In the Table being listed the critical peak and average value and exhibit the compliance with the above calculated Limits.

If in the column's correction factor states a value then the max. Field strength in the same row is corrected by a value gained from the "Duty-Cycle Correction Factor".

**Summary table with radiated data of the test plots**

| Freq, | Used Ch, | Frequency Marker [MHz] | Polarization | corrections dB | Corrected Reading [dBuV/m] | Compliance Limit [dBuV/m] | Detector | BW [MHz] | Margin |
|-------|----------|------------------------|--------------|----------------|----------------------------|---------------------------|----------|----------|--------|
| 1     | 1        | 125.050                | H            |                | 34.32                      | 43.5                      | PK       | 0.1      | 9.18   |
| 1     | 1        | 125.050                | V            |                | 34.62                      | 43.5                      | PK       | 0.1      | 8.88   |
| 2     | 1        | 249.699                | H            |                | 39.42                      | 46                        | PK       | 0.1      | 6.58   |
| 2     | 1        | 249.699                | V            |                | 38.38                      | 46                        | PK       | 0.1      | 7.62   |
| 2     | 1        | 400.401                | H            |                | 37.22                      | 46                        | PK       | 0.1      | 8.78   |
| 2     | 1        | 400.401                | V            |                | 33.82                      | 46                        | PK       | 0.1      | 12.18  |
| 3     | 1        | 2390.000               | H            |                | 48.21                      | 54                        | PK       | 1        | 5.79   |
| 3     | 1        | 2390.000               | V            |                | 70.82                      | 74                        | PK       | 1        | 3.18   |
| 3     | 1        | 2390.000               | V            |                | 50.81                      | 54                        | AV       | 1        | 3.19   |
| 3     | 1        | 2483.500               | H            |                | 42.16                      | 54                        | PK       | 1        | 11.84  |
| 3     | 1        | 2483.500               | V            |                | 52.05                      | 54                        | PK       | 1        | 1.95   |
| 4     | 1        | 4829.516               | H            |                | 51.56                      | 54                        | PK       | 1        | 2.44   |
| 4     | 1        | 4829.516               | V            |                | 55.42                      | 74                        | PK       | 1        | 18.58  |
| 4     | 1        | 4829.516               | V            |                | 50.17                      | 54                        | AV       | 1        | 3.83   |
| 1     | 6        | 125.050                | H            |                | 35.42                      | 43.5                      | PK       | 0.1      | 8.08   |
| 1     | 6        | 125.050                | V            |                | 34.43                      | 43.5                      | PK       | 0.1      | 9.07   |
| 2     | 6        | 249.699                | H            |                | 39.22                      | 46                        | PK       | 0.1      | 6.78   |
| 2     | 6        | 249.699                | V            |                | 38.01                      | 46                        | PK       | 0.1      | 7.99   |
| 2     | 6        | 400.401                | H            |                | 36.66                      | 46                        | PK       | 0.1      | 9.34   |
| 2     | 6        | 400.401                | V            |                | 34.19                      | 46                        | PK       | 0.1      | 11.81  |
| 3     | 6        | 2390.000               | H            |                | 44.88                      | 54                        | PK       | 1        | 9.12   |
| 3     | 6        | 2390.000               | V            |                | 56.12                      | 74                        | PK       | 1        | 17.88  |
| 3     | 6        | 2390.000               | V            |                | 43.29                      | 54                        | AV       | 1        | 10.71  |

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|   |    |          |   |  |       |      |    |     |       |
|---|----|----------|---|--|-------|------|----|-----|-------|
| 3 | 6  | 2483.500 | H |  | 42.61 | 54   | PK | 1   | 11.39 |
| 3 | 6  | 2483.500 | V |  | 57.51 | 74   | PK | 1   | 16.49 |
| 3 | 6  | 2483.500 | V |  | 40.14 | 54   | AV | 1   | 13.86 |
| 4 | 6  | 4865.731 | H |  | 51.67 | 54   | PK | 1   | 2.33  |
| 4 | 6  | 4865.731 | V |  | 54.92 | 74   | PK | 1   | 19.08 |
| 4 | 6  | 4865.731 | V |  | 50.08 | 54   | AV | 1   | 3.92  |
| 1 | 11 | 125.050  | H |  | 34.60 | 43.5 | PK | 0.1 | 8.9   |
| 1 | 11 | 125.050  | V |  | 34.46 | 43.5 | PK | 0.1 | 9.04  |
| 2 | 11 | 249.699  | H |  | 39.33 | 46   | PK | 0.1 | 6.67  |
| 2 | 11 | 249.699  | V |  | 38.11 | 46   | PK | 0.1 | 7.89  |
| 2 | 11 | 400.401  | H |  | 36.89 | 46   | PK | 0.1 | 9.11  |
| 2 | 11 | 400.401  | V |  | 33.33 | 46   | PK | 0.1 | 12.67 |
| 3 | 11 | 2390.000 | H |  | 45.68 | 54   | PK | 1   | 8.32  |
| 3 | 11 | 2390.000 | V |  | 52.25 | 54   | PK | 1   | 1.75  |
| 3 | 11 | 2483.500 | H |  | 51.52 | 54   | PK | 1   | 2.48  |
| 3 | 11 | 2483.500 | V |  | 73.14 | 74   | PK | 1   | 0.86  |
| 3 | 11 | 2483.500 | V |  | 51.24 | 54   | AV | 1   | 2.76  |
| 4 | 11 | 4929.860 | H |  | 48.32 | 54   | PK | 1   | 5.68  |
| 4 | 11 | 4929.860 | V |  | 49.97 | 54   | PK | 1   | 4.03  |

## Freq. – Frequency Range:

|    |     |   |          |
|----|-----|---|----------|
| 1: | 30  | - | 200 MHz  |
| 2: | 200 | - | 1000 MHz |
| 3: | 1   | - | 4 GHz    |
| 4: | 4   | - | 8 GHz    |
| 5: | 8   | - | 12 GHz   |
| 6: | 12  | - | 17 GHz   |
| 7: | 17  | - | 26.5 GHz |

All not in the table noted test results are more than 20 dB below the relevant limits.

All other not noted test polts do not contain significant test results in relation to the limits.

**TEST RESULT (Transmitter):** The unit DOES meet the FCC requirements.

Comment: see attached diagrams

Test equipment used: ETSTW-RE 003, ETSTW-RE 015, ETSTW-RE 016, ETSTW-RE 017, ETSTW-RE 024

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### 3.6 Minimum 6 dB Bandwidth

The analyzer ResBW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK reading was taken, two markers were set 6 dB below the maximum level on the right and the left side of the emission.

The 6 dB bandwidth is the frequency difference between the two markers.

| Test conditions                |                           | 6 dB Bandwidth |                |                |
|--------------------------------|---------------------------|----------------|----------------|----------------|
|                                |                           | Channel A      | Channel B      | Channel C      |
| $T_{nom} = 23^{\circ}\text{C}$ | $V_{nom} = 120 \text{ V}$ | 7.13426854 MHz | 7.13426854 MHz | 7.13426854 MHz |
| Measurement uncertainty        |                           | < 10 Hz        |                |                |

#### Limits:

| Frequency Range<br>MHz | Limits      |
|------------------------|-------------|
| 902-928                | min 500 kHz |
| 2400-2483.5            | min 500 kHz |
| 5725-5850              | min 500 kHz |

Test equipment used: ETSTW-CE 003 , ETSTW-RE 003

Comment: see attached diagram

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### 3.7 Peak Power Spectral Density

Peak Power Spectral density is a measured at low, middle and high channel.

The peak output power is measured with a measurement bandwidth of 10 MHz and displayed on diagram together with Peak Power Spectral Density result which was measured with a bandwidth of 3 kHz, appreciate frequency span and sweep time.

| Test conditions                |                           | Peak Power Spectral Density (3 kHz) |                    |                    |
|--------------------------------|---------------------------|-------------------------------------|--------------------|--------------------|
|                                |                           | Channel A<br>[dBm]                  | Channel B<br>[dBm] | Channel C<br>[dBm] |
| $T_{nom} = 23^{\circ}\text{C}$ | $V_{nom} = 120 \text{ V}$ | -4.06                               | -4.13              | -4.72              |
| Measurement uncertainty        |                           | < 3 Hz                              |                    |                    |

#### Limits:

| Frequency Range<br>MHz | dBm |
|------------------------|-----|
| 902-928                | 8   |
| 2400-2483,5            | 8   |
| 5725-5850              | 8   |

Test equipment used: ETSTW-CE 003 , ETSTW-RE 003

Comment: see attached diagram

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**3.8 Radiated Emissions from Receiver Section of Transceiver**

FCC Rule: 15.109

**Summary table with radiated data of the test plots**

(RX)

| Freq, | Used Ch, | Frequency Marker [MHz] | Polarization | corrections dB | Corrected Reading [dBuV/m] | Compliance Limit [dBuV/m] | Detector | BW [MHz] | Margin |
|-------|----------|------------------------|--------------|----------------|----------------------------|---------------------------|----------|----------|--------|
| 1     | 1        | 34.429                 | H            |                | 35.07                      | 40                        | PK       | 0.1      | 4.93   |
| 1     | 1        | 34.429                 | V            |                | 40.46                      | 60                        | PK       | 0.1      | 19.54  |
| 1     | 1        | 34.429                 | V            |                | 35.89                      | 40                        | QP       | 0.1      | 4.11   |
| 1     | 1        | 47.715                 | H            |                | 29.33                      | 40                        | PK       | 0.1      | 10.67  |
| 1     | 1        | 47.715                 | V            |                | 39.29                      | 40                        | PK       | 0.1      | 0.71   |
| 1     | 1        | 125.050                | H            |                | 34.92                      | 43.5                      | PK       | 0.1      | 8.58   |
| 1     | 1        | 125.050                | V            |                | 34.33                      | 43.5                      | PK       | 0.1      | 9.17   |
| 1     | 1        | 179.248                | H            |                | 24.02                      | 43.5                      | PK       | 0.1      | 19.48  |
| 1     | 1        | 179.248                | V            |                | 33.39                      | 43.5                      | PK       | 0.1      | 10.11  |
| 2     | 1        | 249.699                | H            |                | 42.84                      | 46                        | PK       | 0.1      | 3.16   |
| 2     | 1        | 249.699                | V            |                | 40.46                      | 46                        | PK       | 0.1      | 5.54   |
| 2     | 1        | 360.321                | H            |                | 45.24                      | 46                        | PK       | 0.1      | 0.76   |
| 2     | 1        | 360.321                | V            |                | 47.70                      | 66                        | PK       | 0.1      | 18.3   |
| 2     | 1        | 360.321                | V            |                | 45.51                      | 46                        | QP       | 0.1      | 0.49   |
| 2     | 1        | 648.898                | H            |                | 43.33                      | 46                        | PK       | 0.1      | 2.67   |
| 2     | 1        | 648.898                | V            |                | 43.96                      | 46                        | PK       | 0.1      | 2.04   |
| 1     | 6        | 34.429                 | H            |                | 34.9                       | 40                        | PK       | 0.1      | 5.1    |
| 1     | 6        | 34.429                 | V            |                | 40.70                      | 60                        | PK       | 0.1      | 19.3   |
| 1     | 6        | 34.429                 | V            |                | 36.16                      | 40                        | QP       | 0.1      | 3.84   |
| 1     | 6        | 47.715                 | H            |                | 29.15                      | 40                        | PK       | 0.1      | 10.85  |
| 1     | 6        | 47.715                 | V            |                | 39.32                      | 40                        | PK       | 0.1      | 0.68   |
| 1     | 6        | 125.050                | H            |                | 34.59                      | 43.5                      | PK       | 0.1      | 8.91   |
| 1     | 6        | 125.050                | V            |                | 34.27                      | 43.5                      | PK       | 0.1      | 9.23   |
| 1     | 6        | 179.248                | H            |                | 23.94                      | 43.5                      | PK       | 0.1      | 19.56  |
| 1     | 6        | 179.248                | V            |                | 32.37                      | 43.5                      | PK       | 0.1      | 11.13  |
| 2     | 6        | 249.699                | H            |                | 42.02                      | 46                        | PK       | 0.1      | 3.98   |
| 2     | 6        | 249.699                | V            |                | 40.79                      | 46                        | PK       | 0.1      | 5.21   |
| 2     | 6        | 360.321                | H            |                | 44.84                      | 46                        | PK       | 0.1      | 1.16   |
| 2     | 6        | 360.321                | V            |                | 47.52                      | 66                        | PK       | 0.1      | 18.48  |

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|   |    |         |   |  |       |      |    |     |       |
|---|----|---------|---|--|-------|------|----|-----|-------|
| 2 | 6  | 360.321 | V |  | 45.36 | 46   | QP | 0.1 | 0.64  |
| 2 | 6  | 648.898 | H |  | 43.22 | 46   | PK | 0.1 | 2.78  |
| 2 | 6  | 648.898 | V |  | 41.79 | 46   | PK | 0.1 | 4.21  |
| 1 | 11 | 34.429  | H |  | 34.76 | 40   | PK | 0.1 | 5.24  |
| 1 | 11 | 34.429  | V |  | 40.73 | 60   | PK | 0.1 | 19.27 |
| 1 | 11 | 34.429  | V |  | 35.99 | 40   | QP | 0.1 | 4.01  |
| 1 | 11 | 47.715  | H |  | 29.56 | 40   | PK | 0.1 | 10.44 |
| 1 | 11 | 47.715  | V |  | 39.30 | 40   | PK | 0.1 | 0.7   |
| 1 | 11 | 125.050 | H |  | 34.84 | 43.5 | PK | 0.1 | 8.66  |
| 1 | 11 | 125.050 | V |  | 33.83 | 43.5 | PK | 0.1 | 9.67  |
| 1 | 11 | 179.248 | H |  | 23.80 | 43.5 | PK | 0.1 | 19.7  |
| 1 | 11 | 179.248 | V |  | 33.01 | 43.5 | PK | 0.1 | 10.49 |
| 2 | 11 | 249.699 | H |  | 41.99 | 46   | PK | 0.1 | 4.01  |
| 2 | 11 | 249.699 | V |  | 40.60 | 46   | PK | 0.1 | 5.4   |
| 2 | 11 | 360.321 | H |  | 44.89 | 46   | PK | 0.1 | 1.11  |
| 2 | 11 | 360.321 | V |  | 47.37 | 66   | PK | 0.1 | 18.63 |
| 2 | 11 | 360.321 | V |  | 45.15 | 46   | QP | 0.1 | 0.85  |
| 2 | 11 | 648.898 | H |  | 43.31 | 46   | PK | 0.1 | 2.69  |
| 2 | 11 | 648.898 | V |  | 43.63 | 46   | PK | 0.1 | 2.37  |

POE

| Freq, | Used Ch, | Frequency Marker [MHz] | Polarization | corrections dB | Corrected Reading [dBuV/m] | Compliance Limit [dBuV/m] | Detector | BW [MHz] | Margin |
|-------|----------|------------------------|--------------|----------------|----------------------------|---------------------------|----------|----------|--------|
| 1     |          | 66.112                 | H            |                | 37.58                      | 40                        | PK       | 0.1      | 2.42   |
| 1     |          | 66.112                 | V            |                | 38.24                      | 40                        | PK       | 0.1      | 1.76   |
| 1     |          | 85.872                 | H            |                | 37.13                      | 40                        | PK       | 0.1      | 2.87   |
| 1     |          | 85.872                 | V            |                | 33.21                      | 40                        | PK       | 0.1      | 6.79   |
| 1     |          | 110.741                | H            |                | 41.11                      | 43.5                      | PK       | 0.1      | 2.39   |
| 1     |          | 110.741                | V            |                | 41.73                      | 43.5                      | PK       | 0.1      | 1.77   |
| 2     |          | 249.699                | H            |                | 45.87                      | 46                        | PK       | 0.1      | 0.13   |
| 2     |          | 249.699                | V            |                | 37.83                      | 46                        | PK       | 0.1      | 8.17   |
| 2     |          | 358.717                | H            |                | 37.38                      | 46                        | PK       | 0.1      | 8.62   |
| 2     |          | 358.717                | V            |                | 46.00                      | 66                        | PK       | 0.1      | 20     |
| 2     |          | 358.717                | V            |                | 45.23                      | 46                        | QP       | 0.1      | 0.77   |
| 2     |          | 438.796                | H            |                | 40.19                      | 46                        | PK       | 0.1      | 5.81   |
| 2     |          | 438.796                | V            |                | 42.36                      | 46                        | PK       | 0.1      | 3.64   |
| 2     |          | 650.324                | H            |                | 41.23                      | 46                        | PK       | 0.1      | 4.77   |
| 2     |          | 650.324                | V            |                | 44.33                      | 46                        | PK       | 0.1      | 1.67   |

Adaptor

| Freq, | Used Ch, | Frequency Marker [MHz] | Polarization | corrections dB | Corrected Reading [dBuV/m] | Compliance Limit [dBuV/m] | Detector | BW [MHz] | Margin |
|-------|----------|------------------------|--------------|----------------|----------------------------|---------------------------|----------|----------|--------|
| 1     |          | 34.429                 | H            |                | 35.23                      | 40                        | PK       | 0.1      | 4.77   |
| 1     |          | 34.429                 | V            |                | 41.04                      | 60                        | PK       | 0.1      | 18.96  |
| 1     |          | 34.429                 | V            |                | 36.62                      | 40                        | QP       | 0.1      | 3.38   |
| 1     |          | 47.715                 | H            |                | 29.04                      | 40                        | PK       | 0.1      | 10.96  |
| 1     |          | 47.715                 | V            |                | 39.89                      | 40                        | PK       | 0.1      | 0.11   |
| 1     |          | 59.980                 | H            |                | 25.17                      | 40                        | PK       | 0.1      | 14.83  |
| 1     |          | 59.980                 | V            |                | 39.87                      | 40                        | PK       | 0.1      | 0.13   |
| 1     |          | 125.050                | H            |                | 34.91                      | 43.5                      | PK       | 0.1      | 8.59   |
| 1     |          | 125.050                | V            |                | 34.90                      | 43.5                      | PK       | 0.1      | 8.6    |
| 2     |          | 249.699                | H            |                | 42.85                      | 46                        | PK       | 0.1      | 3.15   |
| 2     |          | 249.699                | V            |                | 40.36                      | 46                        | PK       | 0.1      | 5.64   |
| 2     |          | 358.717                | H            |                | 45.11                      | 46                        | PK       | 0.1      | 0.89   |



Registration number: W6M20506-5956-C-1  
FCC ID: TER-AP500-ADV

|   |  |         |   |  |       |    |    |     |       |
|---|--|---------|---|--|-------|----|----|-----|-------|
| 2 |  | 358.717 | V |  | 47.43 | 66 | PK | 0.1 | 18.57 |
| 2 |  | 358.717 | V |  | 45.19 | 46 | QP | 0.1 | 0.81  |
| 2 |  | 395.591 | H |  | 36.77 | 46 | PK | 0.1 | 9.23  |
| 2 |  | 395.591 | V |  | 45.51 | 46 | PK | 0.1 | 0.49  |
| 2 |  | 648.898 | H |  | 43.63 | 46 | PK | 0.1 | 2.37  |
| 2 |  | 648.898 | V |  | 43.51 | 46 | PK | 0.1 | 2.49  |

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

| Frequency of Emission<br>(MHz) | Field Strength<br>(microvolts/meter) | Field Strength<br>(dBmicrovolts/meter) |
|--------------------------------|--------------------------------------|----------------------------------------|
| 30 – 88                        | 100                                  | 40.0                                   |
| 88 – 216                       | 150                                  | 43.5                                   |
| 216 – 960                      | 200                                  | 46.0                                   |
| Above 960                      | 500                                  | 54.0                                   |

Test equipment used: ETSTW-RE 015, ETSTW-RE 016, ETSTW-RE 017, ETSTW-CS 001, ETSTW-RE 026, ETSTW-RE 003, ETSTW-RE 025

Comment: see attached diagram

### 3.9 Power Line Conducted Emission

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.

| Frequency | Level (dB $\mu$ V) |                  |
|-----------|--------------------|------------------|
|           | quasi-peak         | average          |
| 150 kHz   | lower limit line   | Lower limit line |

#### Measurement Result: “\_ Fin AV”

POE

| Frequency (MHz) | Level (N) dB $\mu$ V | Transd dB | Limit dB $\mu$ V | Margin dB |
|-----------------|----------------------|-----------|------------------|-----------|
| 0.525           | 45.79                | 10.1      | 46               | 0.21      |
| 0.615           | 44.92                | 10.1      | 46               | 1.08      |
| 1.050           | 22.67                | 10.1      | 46               | 23.33     |
| 1.140           | 32.56                | 10.1      | 46               | 13.44     |
| 1.225           | 25.75                | 10.1      | 46               | 20.25     |
| 1.315           | 27.53                | 10.1      | 46               | 18.47     |
| 0.530           | 45.30                | 10.1      | 46               | 0.7       |
| 0.620           | 44.00                | 10.1      | 46               | 2         |
| 1.060           | 45.90                | 10.1      | 46               | 0.1       |
| 1.150           | 45.30                | 10.1      | 46               | 0.7       |
| 1.235           | 44.30                | 10.1      | 46               | 1.7       |
| 1.325           | 45.50                | 10.1      | 46               | 0.5       |
| 1.820           | 22.80                | 10.1      | 46               | 23.2      |

| Frequency (MHz) | Level (L1) dBμV | Transd dB | Limit dBμV | Margin dB |
|-----------------|-----------------|-----------|------------|-----------|
| 0.525           | 45.20           | 10.1      | 46         | 0.8       |
| 0.615           | 44.90           | 10.1      | 46         | 1.1       |
| 1.050           | 26.60           | 10.1      | 46         | 19.4      |
| 1.140           | 38.10           | 10.1      | 46         | 7.9       |
| 1.225           | 25.90           | 10.1      | 46         | 20.1      |
| 1.315           | 28.30           | 10.1      | 46         | 17.7      |
| 0.530           | 45.10           | 10.1      | 46         | 0.9       |
| 0.620           | 44.00           | 10.1      | 46         | 2         |
| 1.060           | 39.70           | 10.1      | 46         | 6.3       |
| 1.150           | 43.40           | 10.1      | 46         | 2.6       |
| 1.235           | 40.67           | 10.1      | 46         | 5.33      |
| 1.325           | 33.70           | 10.1      | 46         | 12.3      |
| 1.820           | 24.50           | 10.1      | 46         | 21.5      |

#### Adapter

| Frequency (MHz) | Level (N) dBμV | Transd dB | Limit dBμV | Margin dB |
|-----------------|----------------|-----------|------------|-----------|
| 0.155           | 26.12          | 10.1      | 56         | 29.88     |
| 0.415           | 3.92           | 10.1      | 48         | 44.08     |
| 2.505           | 14.62          | 10.1      | 46         | 31.38     |
| 5.49            | 9.94           | 10.1      | 50         | 40.06     |
| 12.21           | 10.05          | 10.1      | 50         | 39.95     |
| 20.985          | 14.51          | 10.1      | 50         | 35.49     |

| Frequency (MHz) | Level (L1) dBμV | Transd dB | Limit dBμV | Margin dB |
|-----------------|-----------------|-----------|------------|-----------|
| 0.155           | 35.76           | 10.1      | 56         | 20.24     |
| 0.415           | 25.94           | 10.1      | 48         | 22.06     |
| 2.505           | 20.46           | 10.1      | 46         | 25.54     |
| 5.49            | 13.98           | 10.1      | 50         | 36.02     |
| 12.21           | 13.11           | 10.1      | 50         | 36.89     |
| 20.985          | 18.35           | 10.1      | 50         | 31.65     |

Registration number: W6M20506-5956-C-1  
FCC ID: TER-AP500-ADV

**Measurement Result: “\_ Fin QP”**

POE

| Frequency (MHz) | Level (N) dBμV | Transd dB | Limit dBμV | Margin dB |
|-----------------|----------------|-----------|------------|-----------|
| 0.525           | 50.80          | 10.1      | 56         | 5.2       |
| 0.615           | 51.50          | 10.1      | 56         | 4.5       |
| 1.050           | 42.55          | 10.1      | 56         | 13.45     |
| 1.140           | 44.92          | 10.1      | 56         | 11.08     |
| 1.225           | 42.78          | 10.1      | 56         | 13.22     |
| 1.315           | 43.05          | 10.1      | 56         | 12.95     |
| 0.530           | 55.40          | 10.1      | 56         | 0.6       |
| 0.620           | 52.70          | 10.1      | 56         | 3.3       |
| 1.060           | 52.80          | 10.1      | 56         | 3.2       |
| 1.150           | 55.20          | 10.1      | 56         | 0.8       |
| 1.235           | 48.60          | 10.1      | 56         | 7.4       |
| 1.325           | 49.20          | 10.1      | 56         | 6.8       |
| 1.820           | 32.80          | 10.1      | 56         | 23.2      |

| Frequency (MHz) | Level (L1) dBμV | Transd dB | Limit dBμV | Margin dB |
|-----------------|-----------------|-----------|------------|-----------|
| 0.525           | 50.90           | 10.1      | 56         | 5.1       |
| 0.615           | 49.80           | 10.1      | 56         | 6.2       |
| 1.050           | 35.10           | 10.1      | 56         | 20.9      |
| 1.140           | 41.10           | 10.1      | 56         | 14.9      |
| 1.225           | 36.00           | 10.1      | 56         | 20        |
| 1.315           | 38.00           | 10.1      | 56         | 18        |
| 0.530           | 55.80           | 10.1      | 56         | 0.2       |
| 0.620           | 51.20           | 10.1      | 56         | 4.8       |
| 1.060           | 45.10           | 10.1      | 56         | 10.9      |
| 1.150           | 52.70           | 10.1      | 56         | 3.3       |
| 1.235           | 46.50           | 10.1      | 56         | 9.5       |
| 1.325           | 45.80           | 10.1      | 56         | 10.2      |
| 1.820           | 33.70           | 10.1      | 56         | 22.3      |

Adapter

| Frequency (MHz) | Level (N) dBμV | Transd dB | Limit dBμV | Margin dB |
|-----------------|----------------|-----------|------------|-----------|
| 0.155           | 45.98          | 10.1      | 66         | 20.02     |
| 0.415           | 22.14          | 10.1      | 58         | 35.86     |
| 2.505           | 26.21          | 10.1      | 56         | 29.79     |
| 5.49            | 20.33          | 10.1      | 60         | 39.67     |
| 12.21           | 21.43          | 10.1      | 60         | 38.57     |
| 20.985          | 26.11          | 10.1      | 60         | 33.89     |

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FCC ID: TER-AP500-ADV

| Frequency<br>(MHz) | Level (L1)<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB |
|--------------------|--------------------|--------------|---------------|--------------|
| 0.155              | 54.83              | 10.1         | 65.86         | 11.17        |
| 0.415              | 33.61              | 10.1         | 58.43         | 24.39        |
| 2.505              | 31.59              | 10.1         | 56            | 24.41        |
| 5.49               | 24.03              | 10.1         | 60            | 35.97        |
| 12.21              | 26.45              | 10.1         | 60            | 33.55        |
| 20.985             | 33.32              | 10.1         | 60            | 26.68        |

**Limits:**

| Frequency of Emission (MHz) | Conducted Limit (dBuV) |          |
|-----------------------------|------------------------|----------|
|                             | Quasi Peak             | Average  |
| 0.15-0.5                    | 66 to 56               | 56 to 46 |
| 0.5-5                       | 56                     | 46       |
| 5-30                        | 60                     | 50       |

Test equipment used: ETSTW-CE 004, ETSTW-CE 001, ETSTW-RE 023

Comment: see attached diagram

## **Appendix**

- A Peak Output Power
- B Spurious Emissions radiated – Transmitter operating
- C Band Edge Measurement
- D Minimum 6dB Bandwidth
- E Peak Power Spectral Density
- F Radiated Emissions from Receiver Section of Transceiver
- G Power Line Conducted Emission
- H Pictures



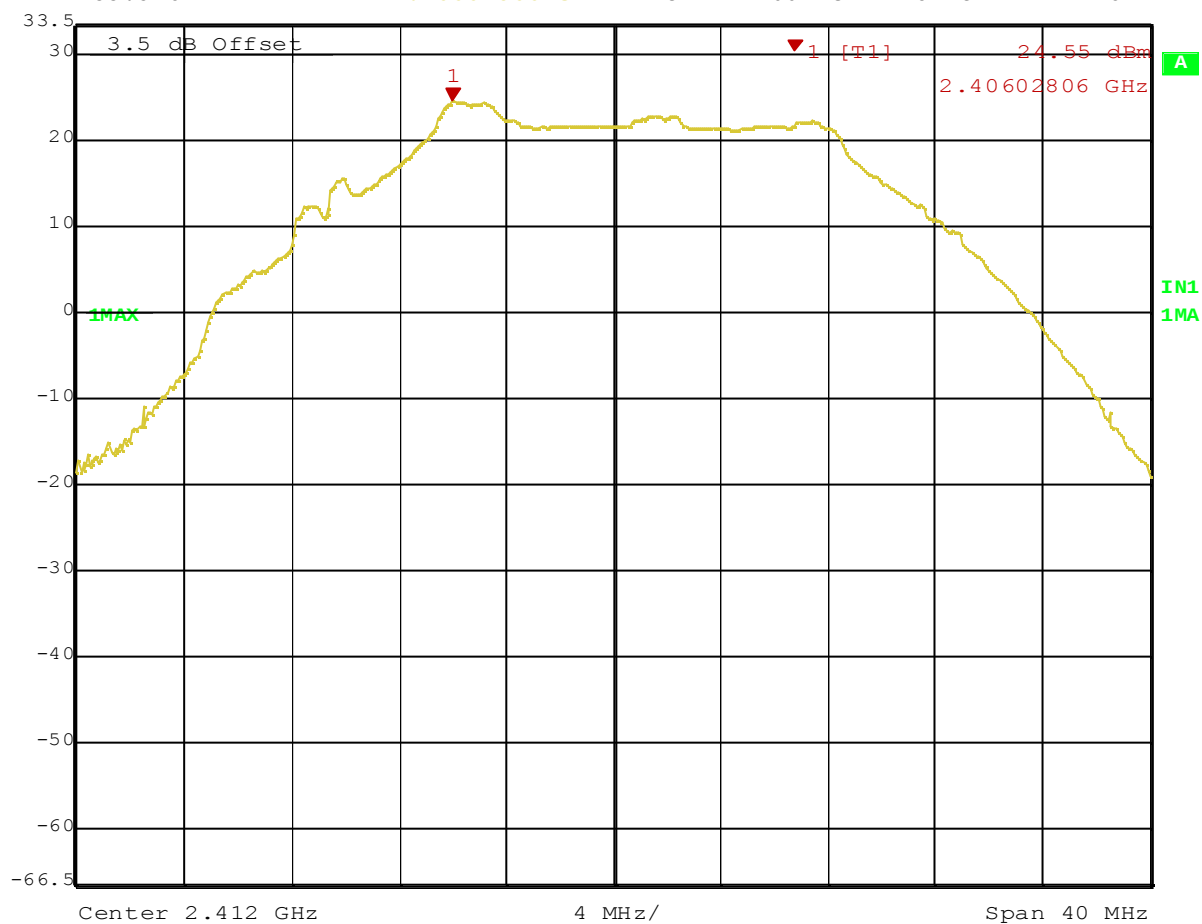
Registration number: W6M20506-5956-C-1  
FCC ID: TER-AP500-ADV

## **Appendix A**

### Peak Output Power



Marker 1 [T1] RBW 10 MHz RF Att 40 dB  
Ref Lvl 24.55 dBm VBW 10 MHz  
33.5 dBm 2.40602806 GHz SWT 200 ms Unit dBm

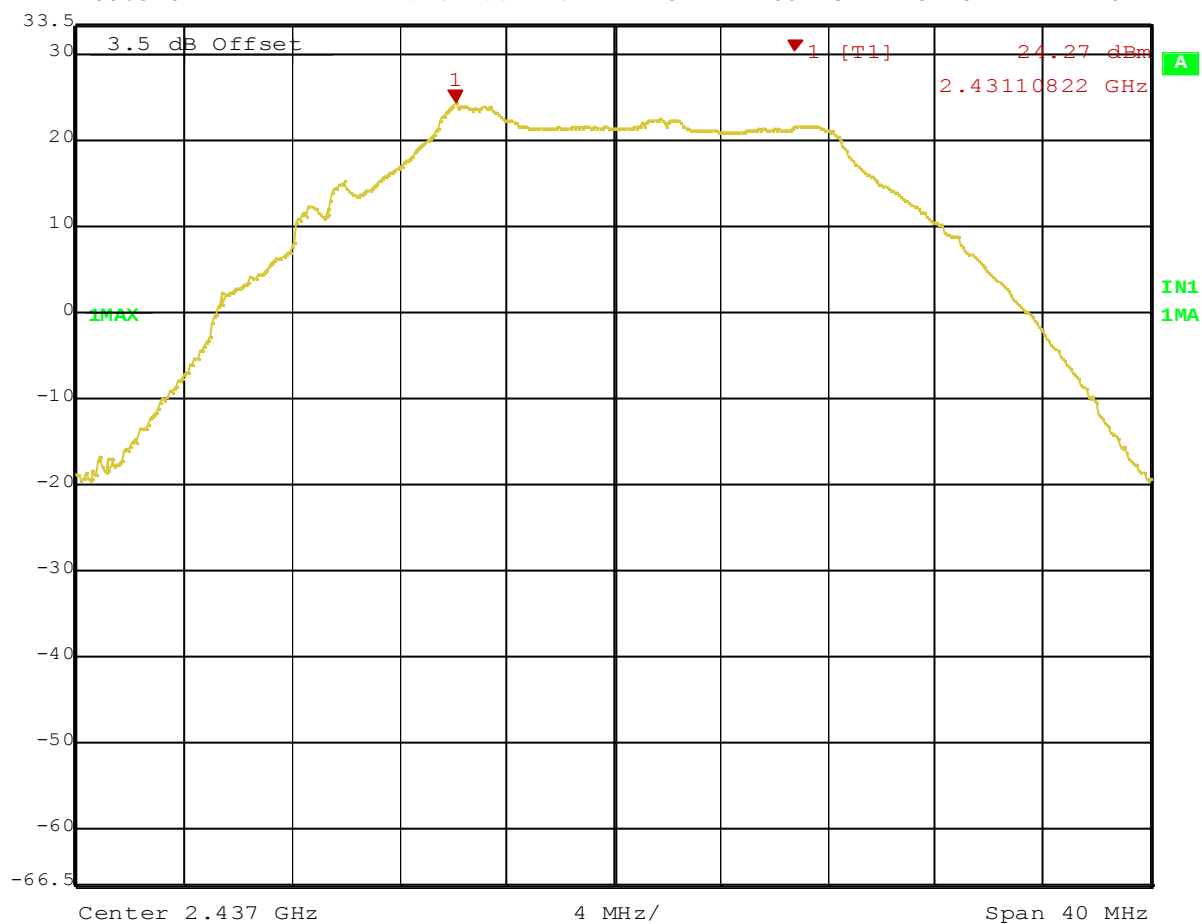


Title: MAX OUTPUT POWER 802.11b CH1  
Comment A: ValuePoint Networks, Inc.  
Date: 3.JUN.2005 17:42:46





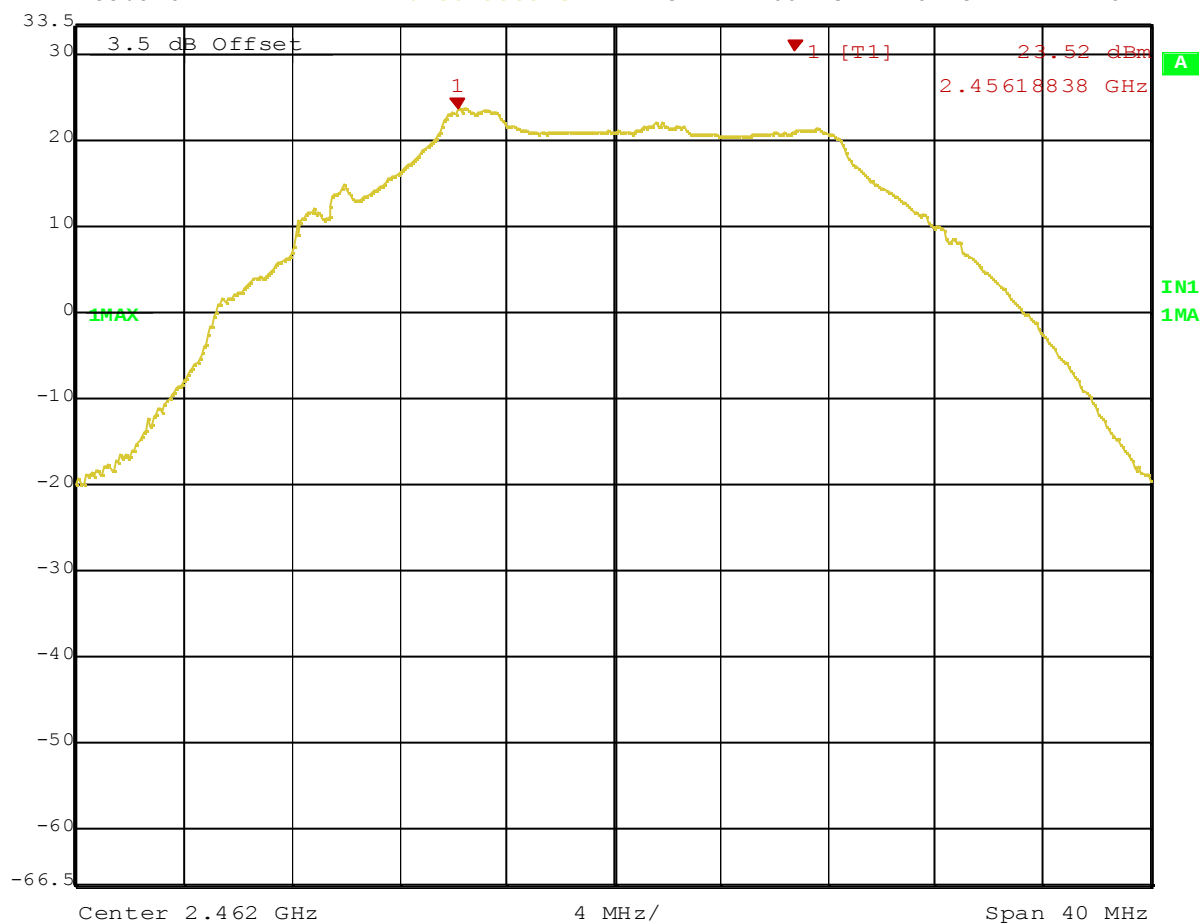
Marker 1 [T1] RBW 10 MHz RF Att 40 dB  
Ref Lvl 24.27 dBm VBW 10 MHz  
33.5 dBm 2.43110822 GHz SWT 200 ms Unit dBm



Title: MAX OUTPUT POWER 802.11b CH6  
Comment A: ValuePoint Networks, Inc.  
Date: 3.JUN.2005 17:43:23



Marker 1 [T1] RBW 10 MHz RF Att 40 dB  
Ref Lvl 23.52 dBm VBW 10 MHz  
33.5 dBm 2.45618838 GHz SWT 200 ms Unit dBm



Title: MAX OUTPUT POWER 802.11b CH11

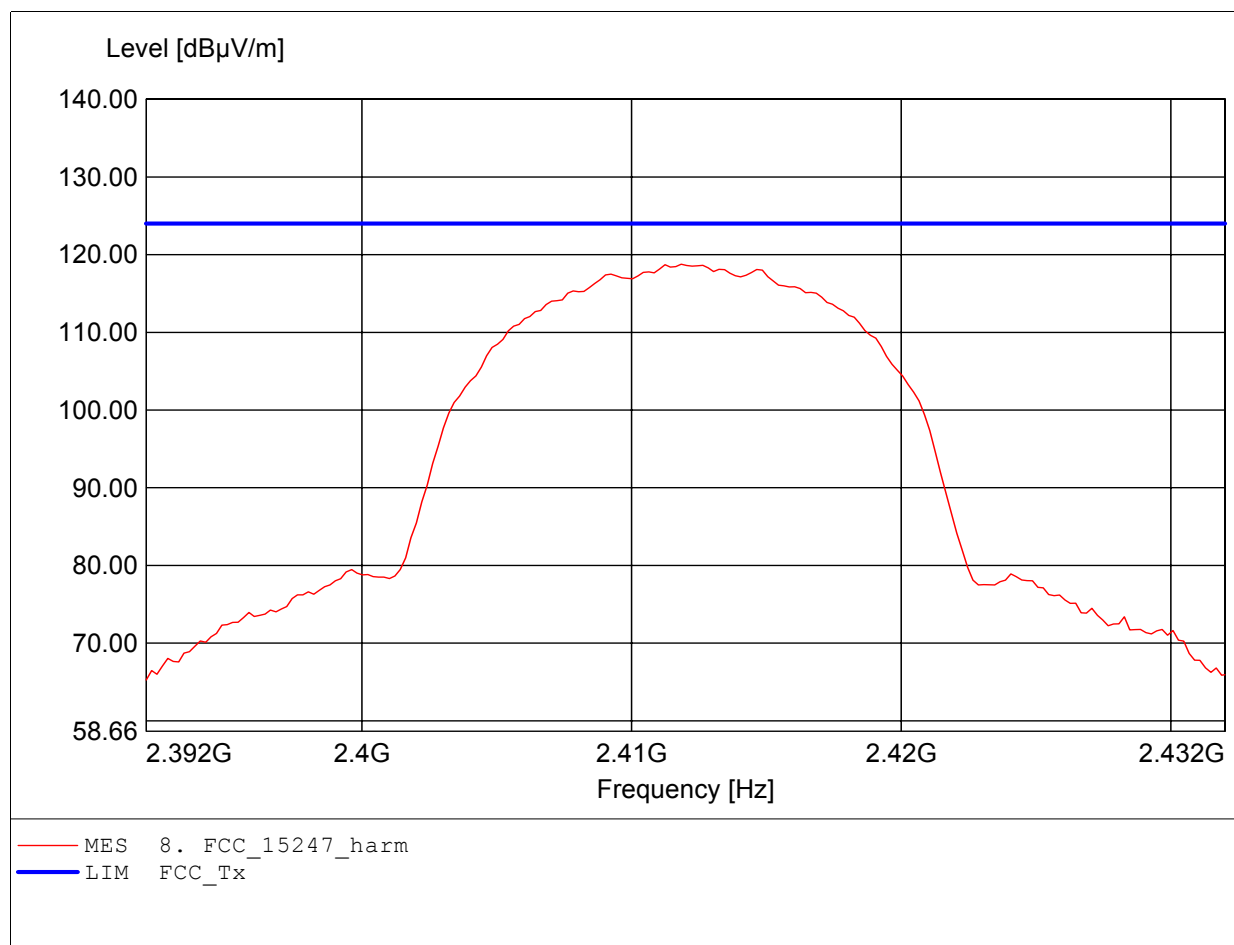
Comment A: ValuePoint Networks, Inc.

Date: 3.JUN.2005 17:33:47

## Carrier power (Field Strength)

### FCC RULES PART 15, SUBPART C

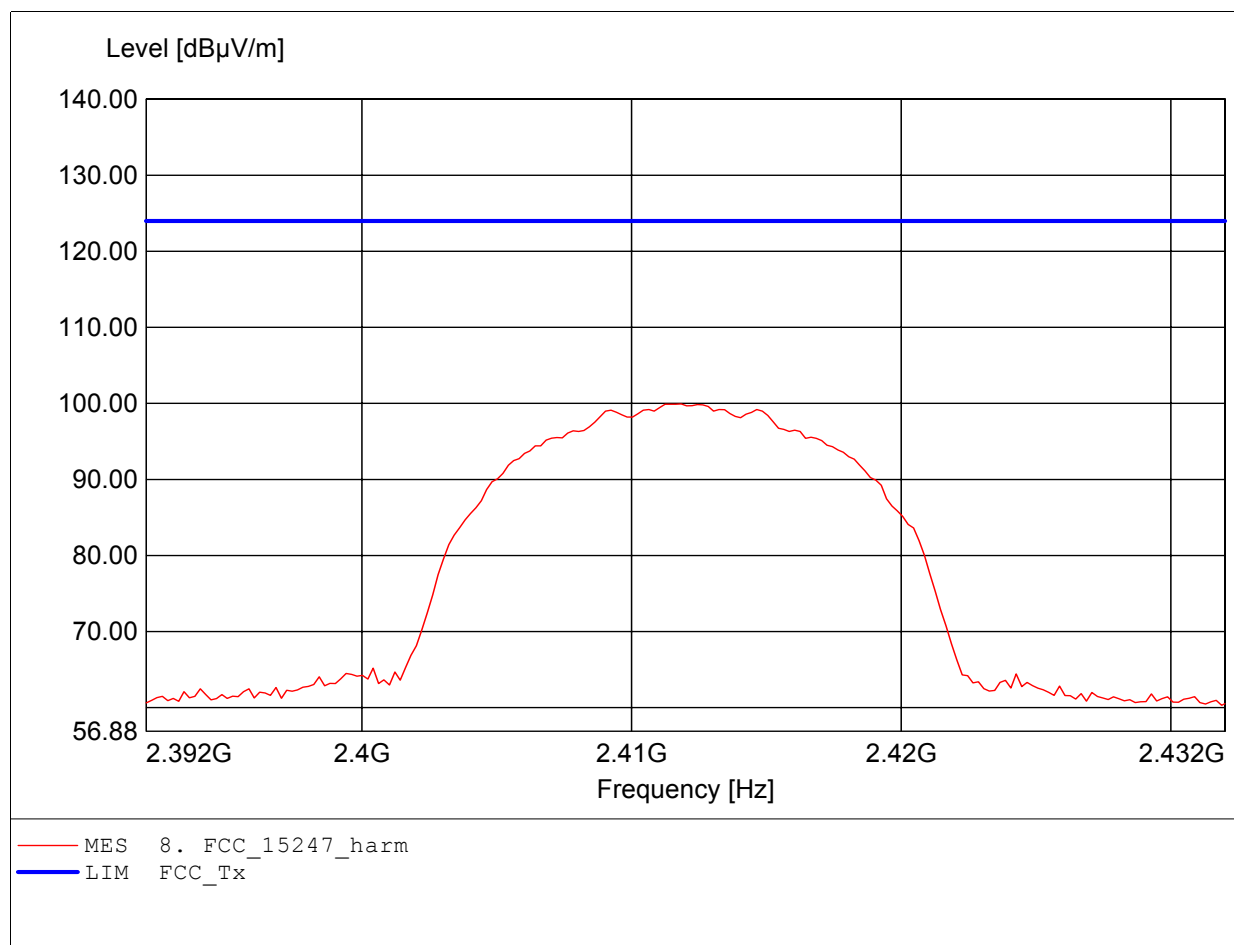
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL025  
Freq: 2.412GHz, Emax: 118.77dBμV/m, RBW: 1MHz



## Carrier power (Field Strength)

### FCC RULES PART 15, SUBPART C

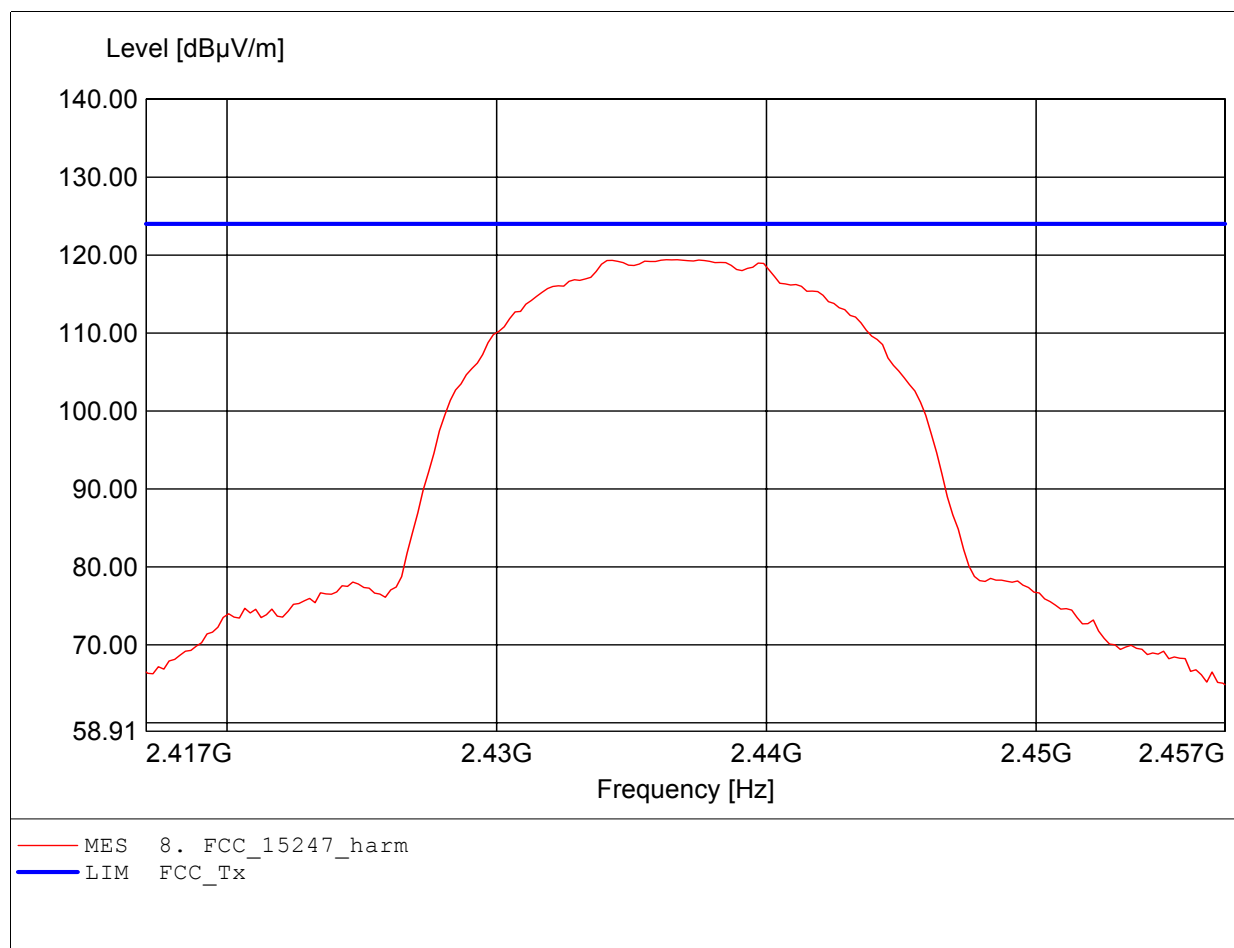
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL025  
Freq: 2.412GHz, Emax: 99.92dBµV/m, RBW: 1MHz



## Carrier power (Field Strength)

### FCC RULES PART 15, SUBPART C

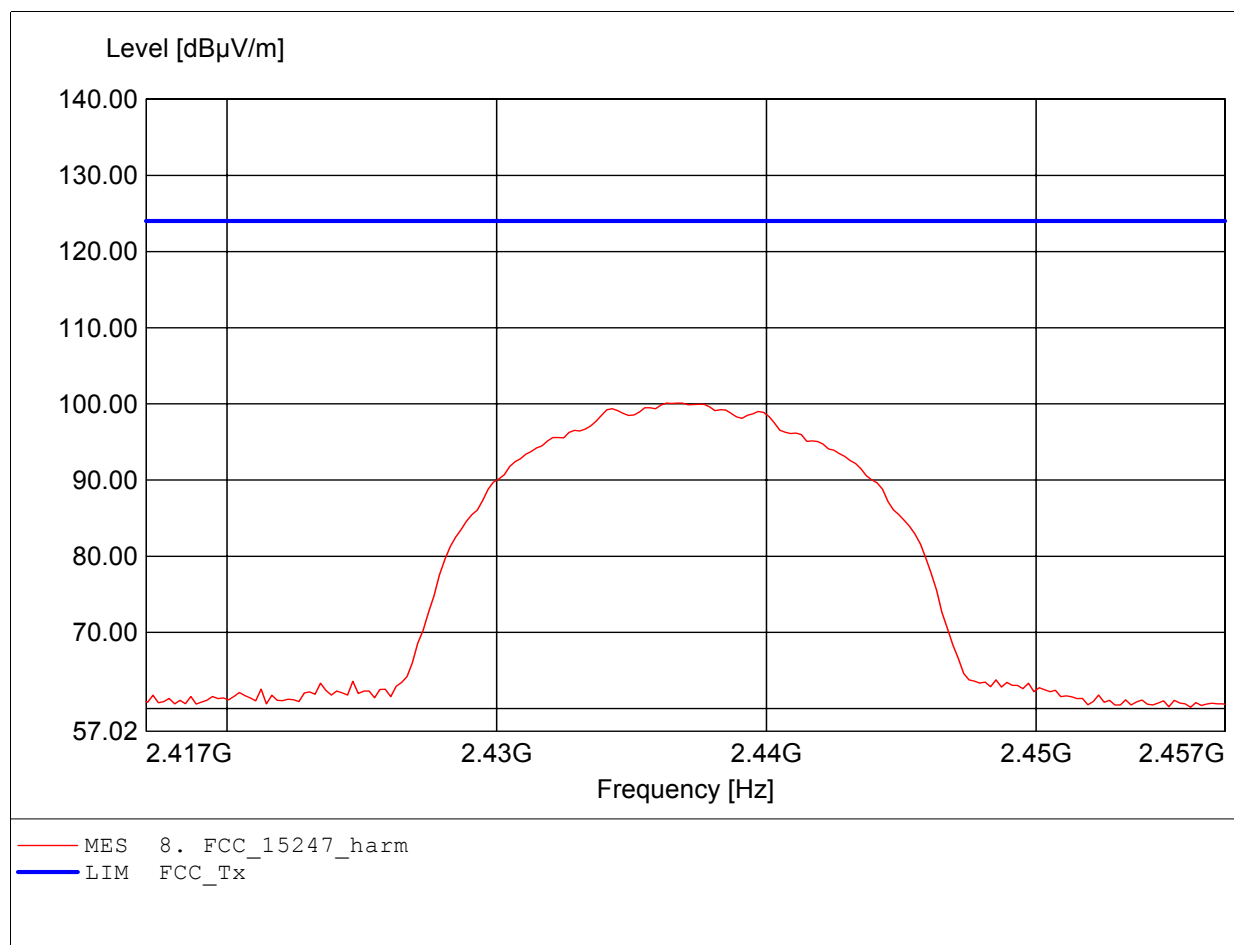
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL025  
Freq: 2.436GHz, Emax: 119.42dBµV/m, RBW: 1MHz



## Carrier power (Field Strength)

### FCC RULES PART 15, SUBPART C

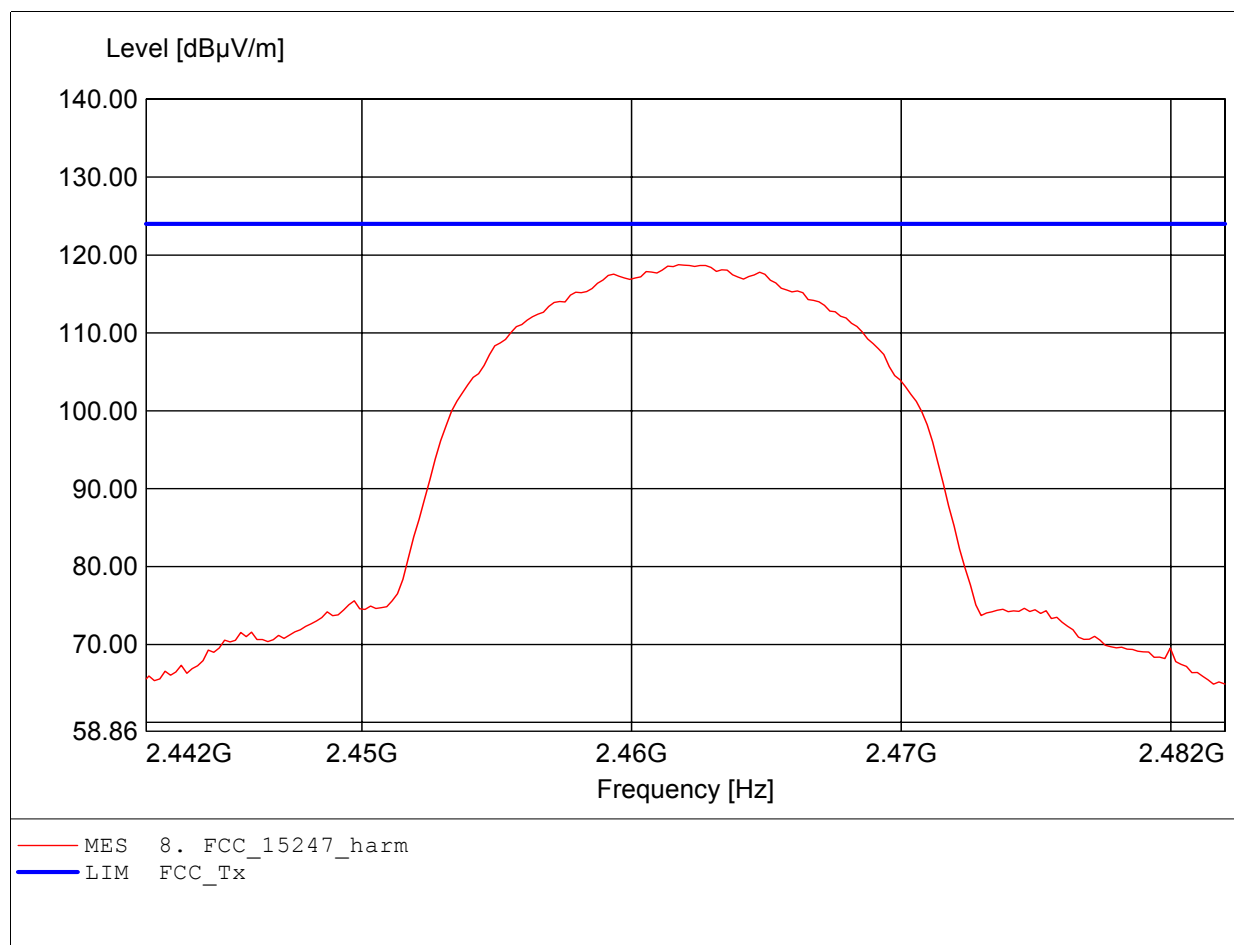
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL025  
Freq: 2.437GHz, Emax: 100.11dBµV/m, RBW: 1MHz



## Carrier power (Field Strength)

### FCC RULES PART 15, SUBPART C

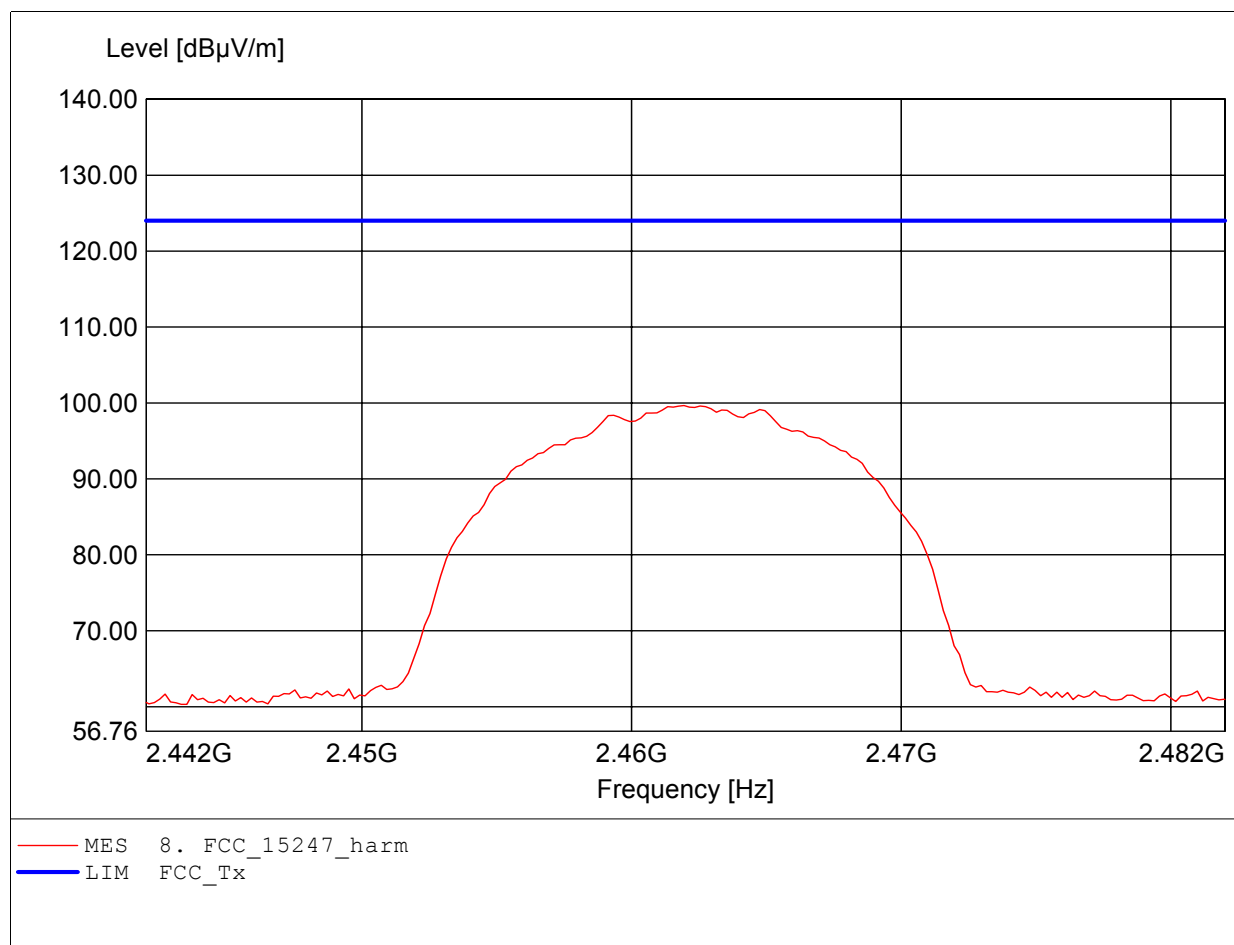
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MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL025  
Freq: 2.462GHz, Emax: 118.76dBμV/m, RBW: 1MHz



## Carrier power (Field Strength)

### FCC RULES PART 15, SUBPART C

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL025  
Freq: 2.462GHz, Emax: 99.66dBμV/m, RBW: 1MHz







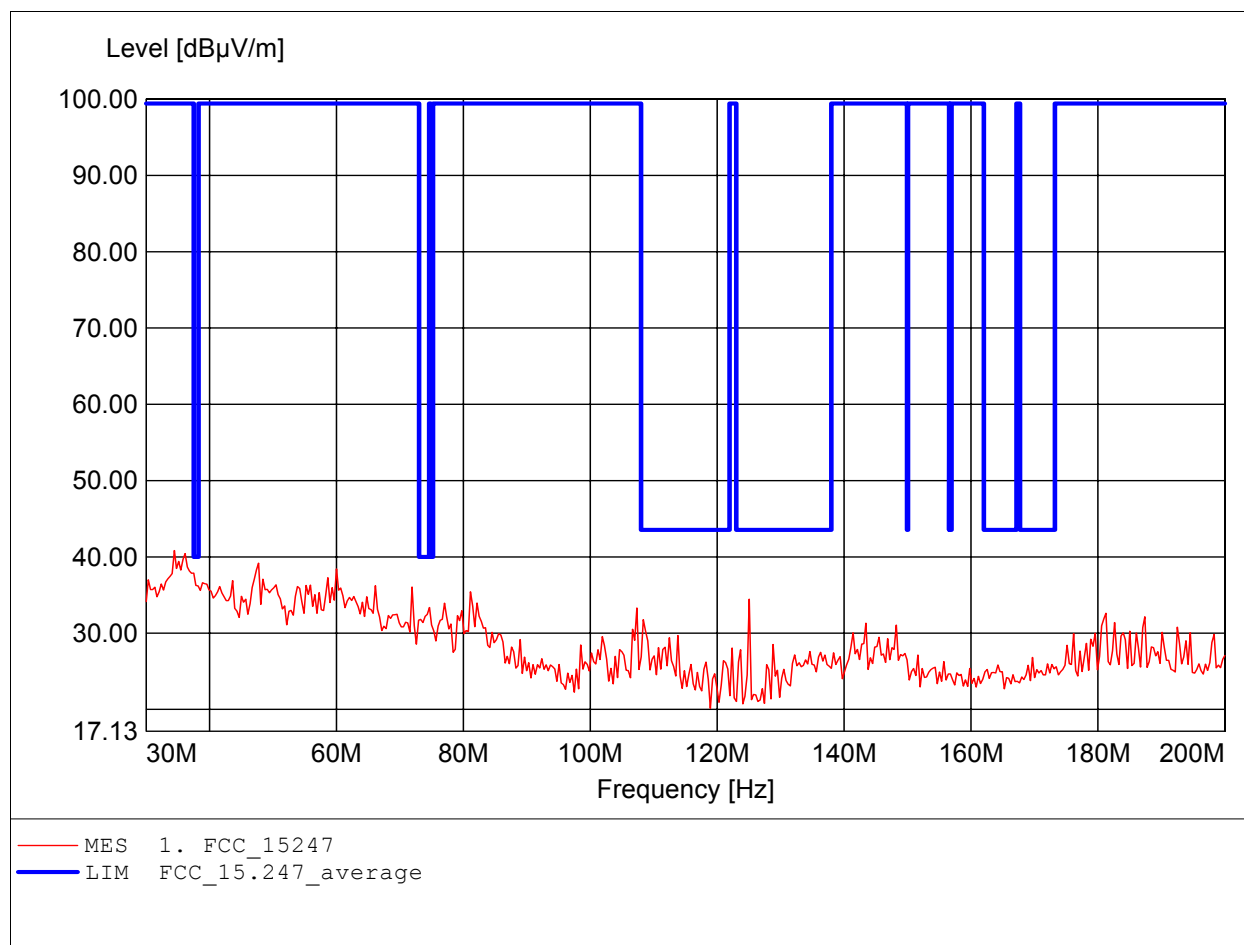
## **Appendix B**

Spurious Emissions radiated – Transmitter operating

## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

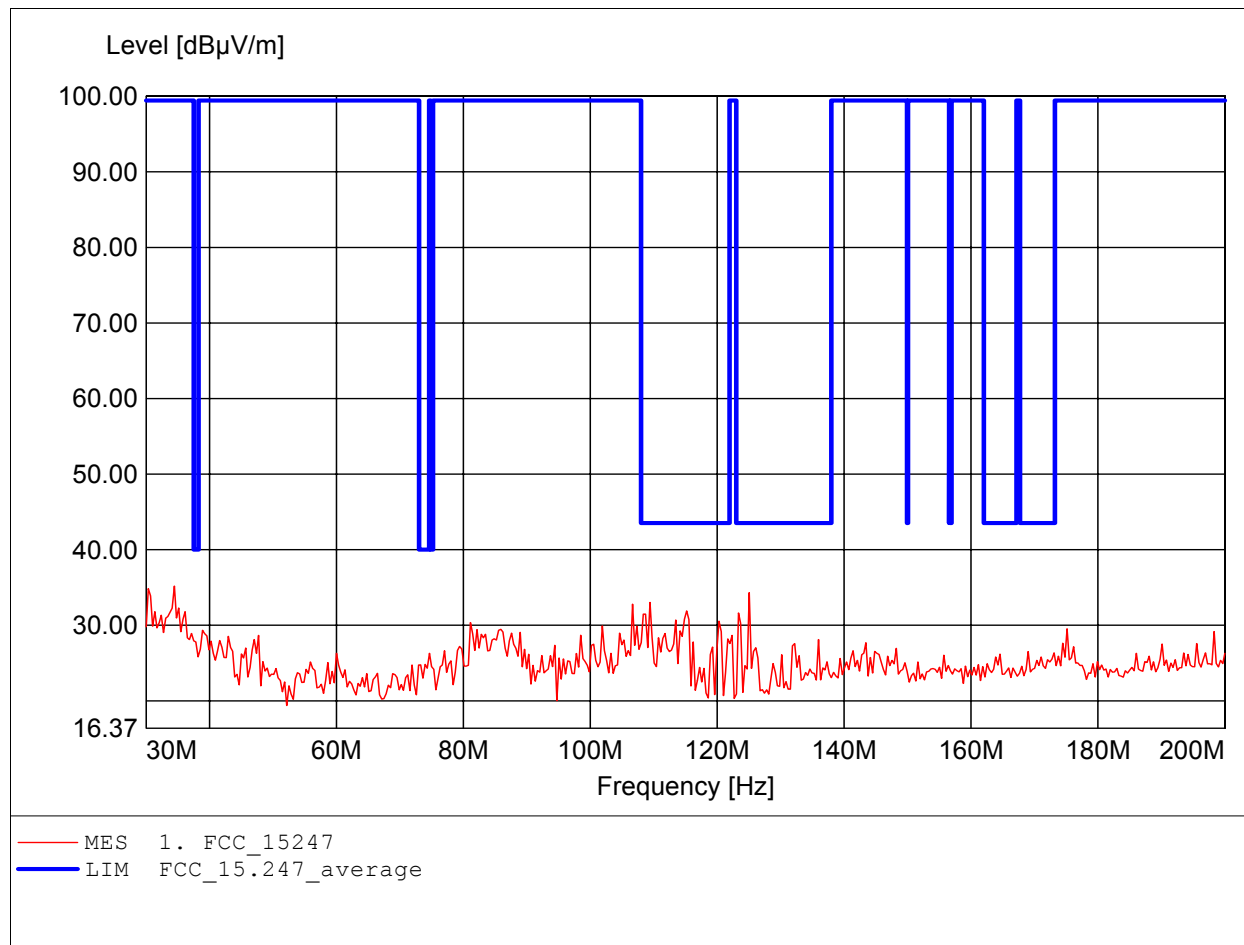
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MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Freq: 34.429MHz, Emax: 40.83dBμV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

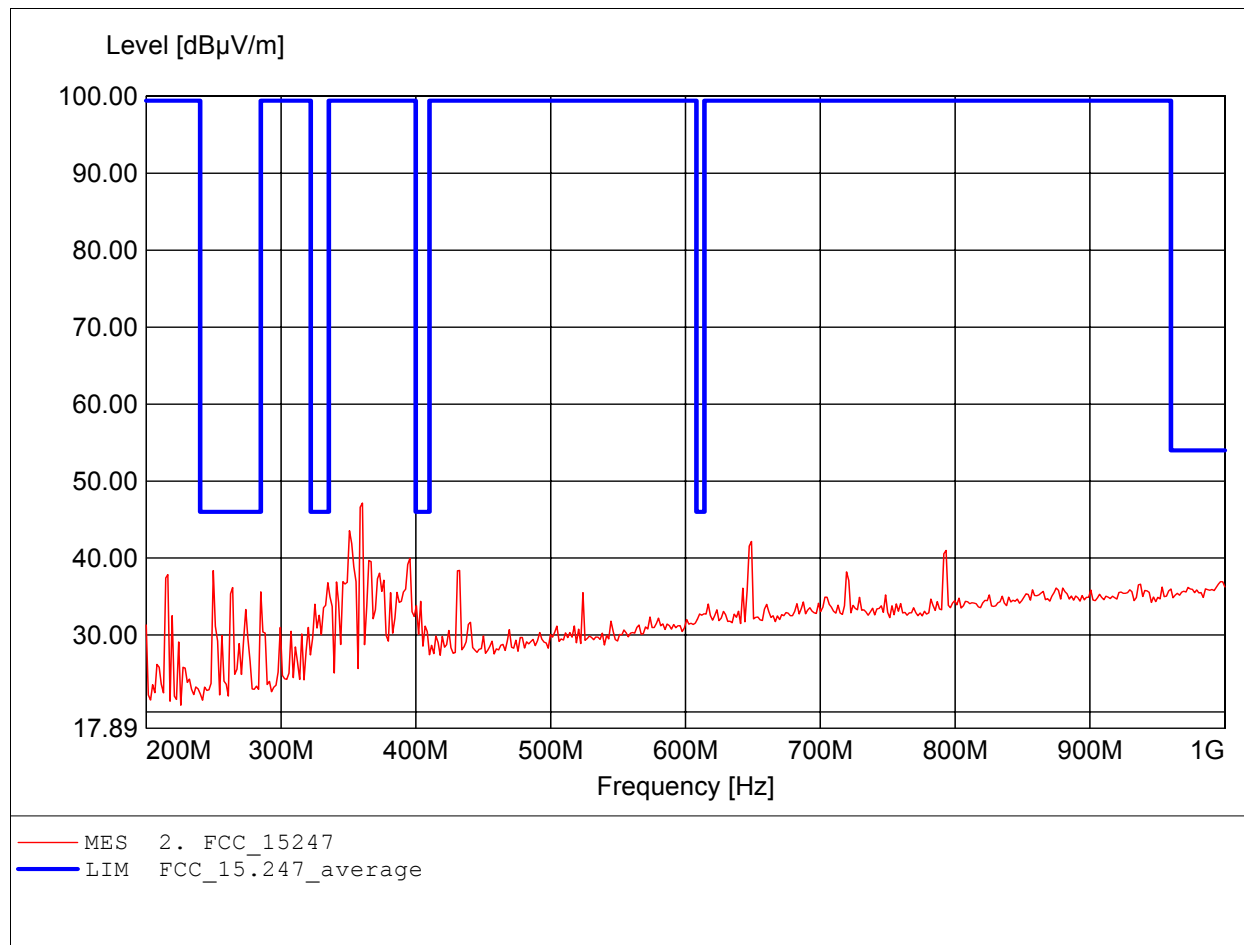
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Freq: 34.429MHz, Emax: 35.17dBµV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

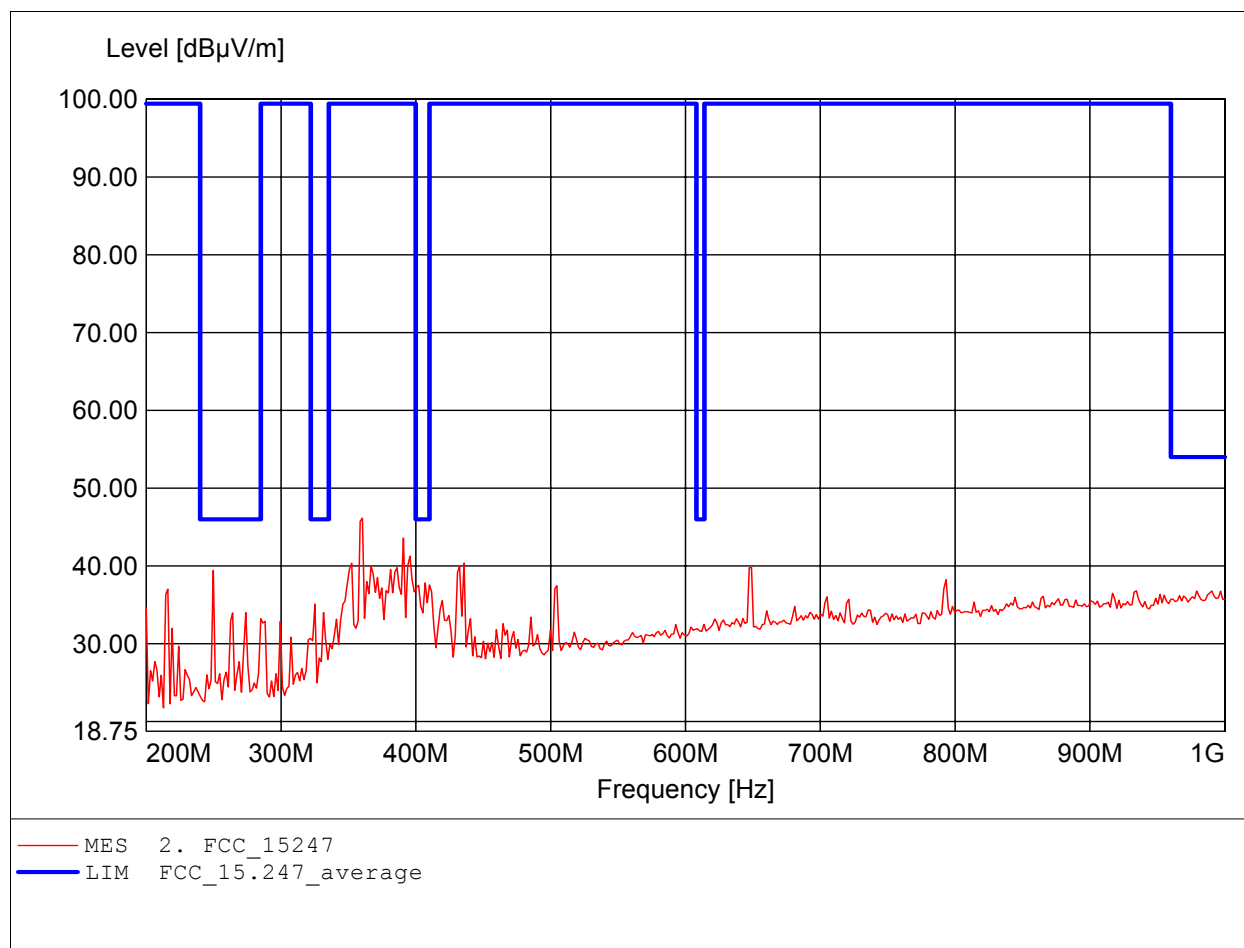
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223,  
Freq: 360.321MHz, Emax: 47.15dBµV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

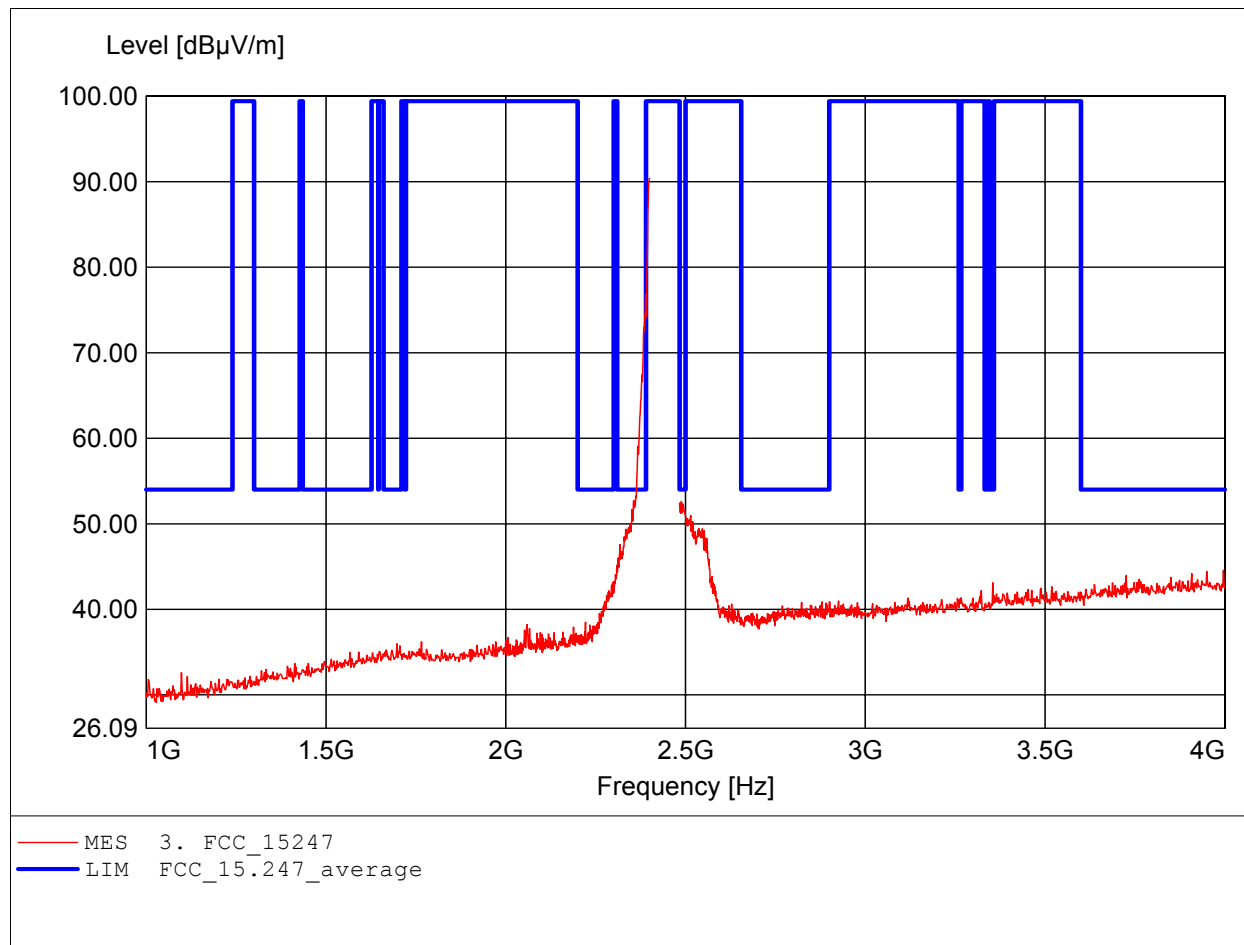
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223,  
Freq: 360.321MHz, Emax: 46.14dBµV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Freq: 2.400GHz, Emax: 90.40dBµV/m, RBW: 1MHz



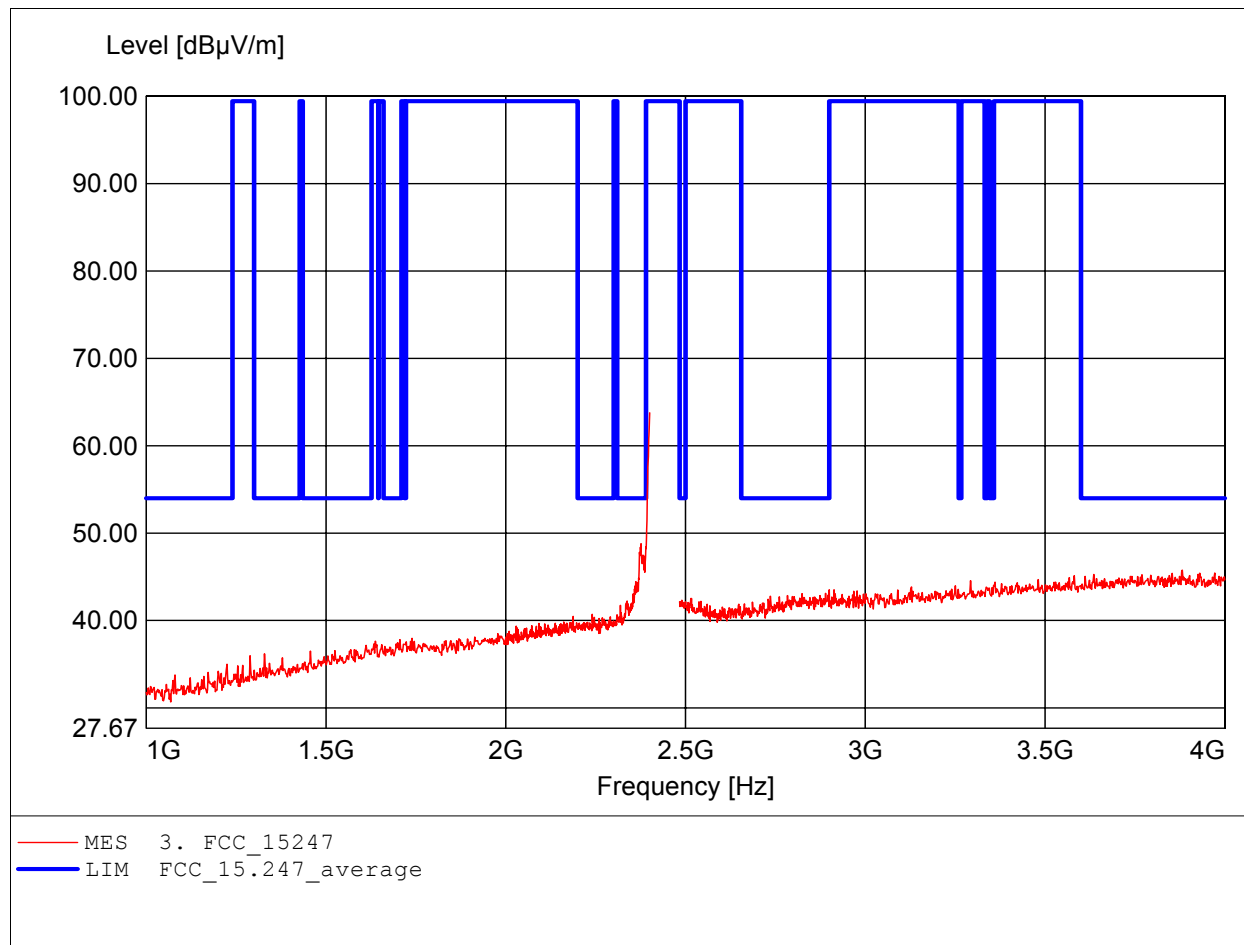
#### MEASUREMENT RESULT:

| Frequency<br>MHz | Level<br>dBµV | Limit<br>dBµV | Margin<br>dB | Detector |
|------------------|---------------|---------------|--------------|----------|
| 2.3900000        | 50.81         | 54.0          | 3.19         | Average  |

## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

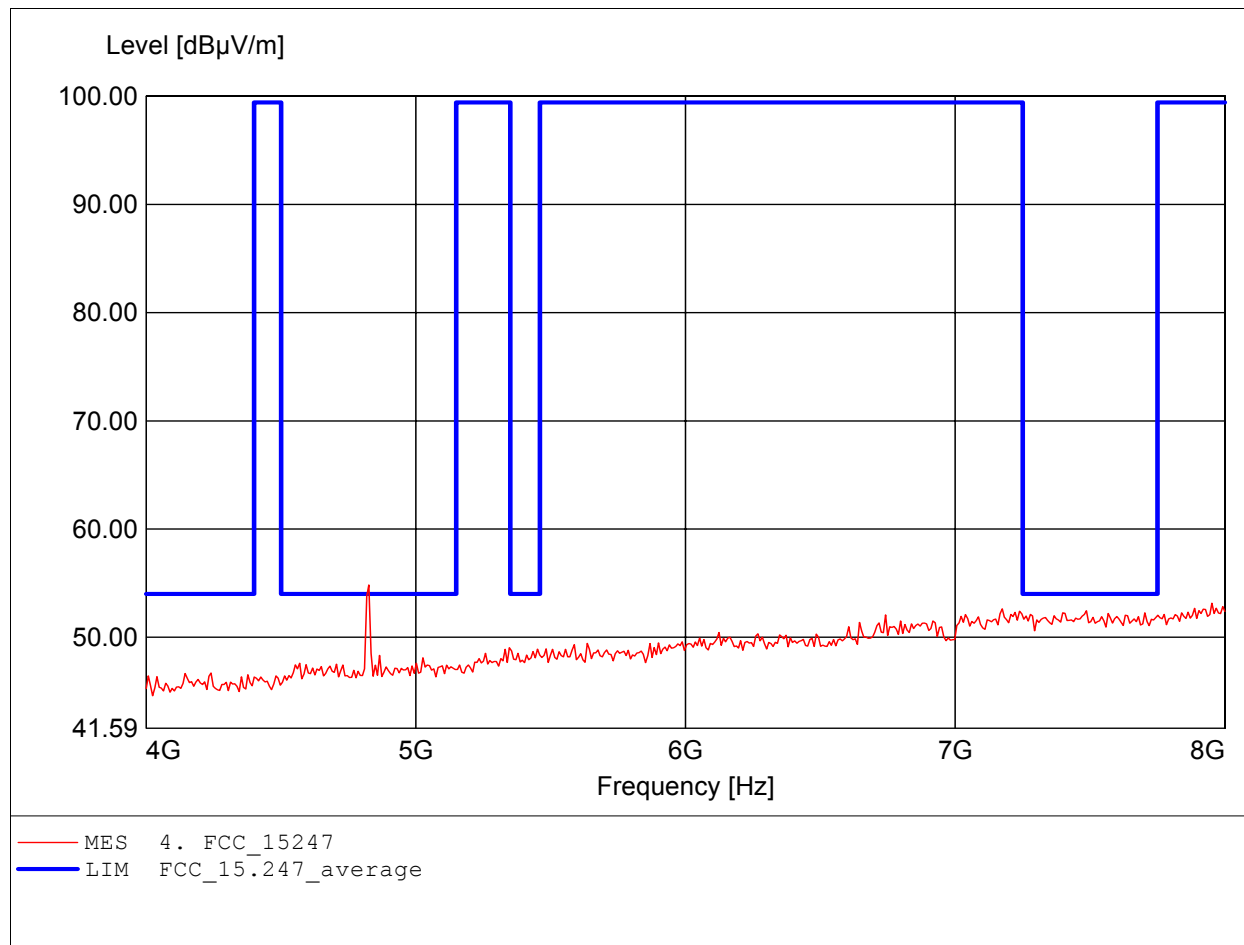
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MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Freq: 2.400GHz, Emax: 63.78dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.  
Freq: 4.826GHz, Emax: 54.83dBµV/m, RBW: 1MHz



#### MEASUREMENT RESULT:

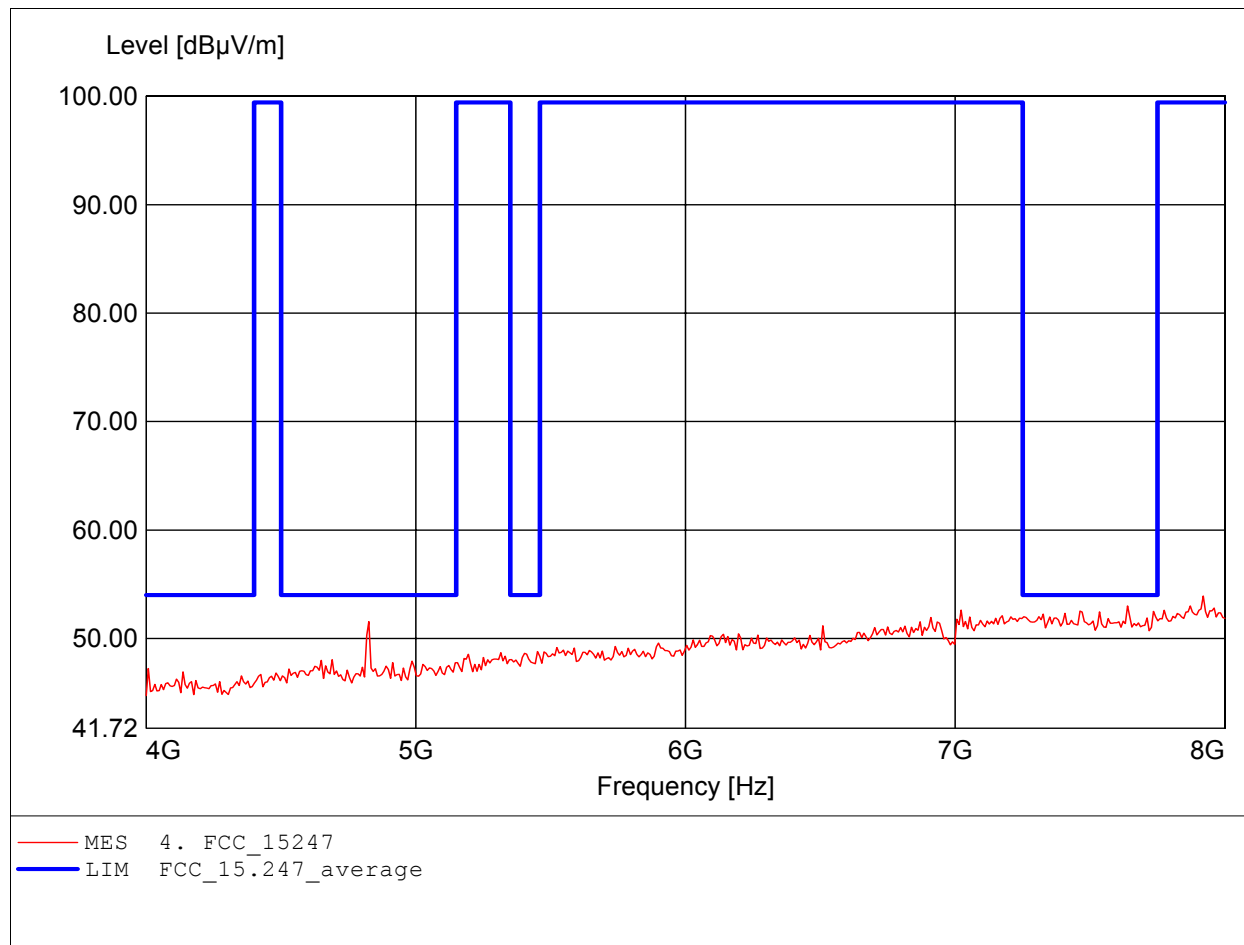
| Frequency<br>MHz | Level<br>dBµV | Limit<br>dBµV | Margin<br>dB | Detector |
|------------------|---------------|---------------|--------------|----------|
| 4.8295159        | 50.17         | 54.0          | 3.83         | Average  |



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

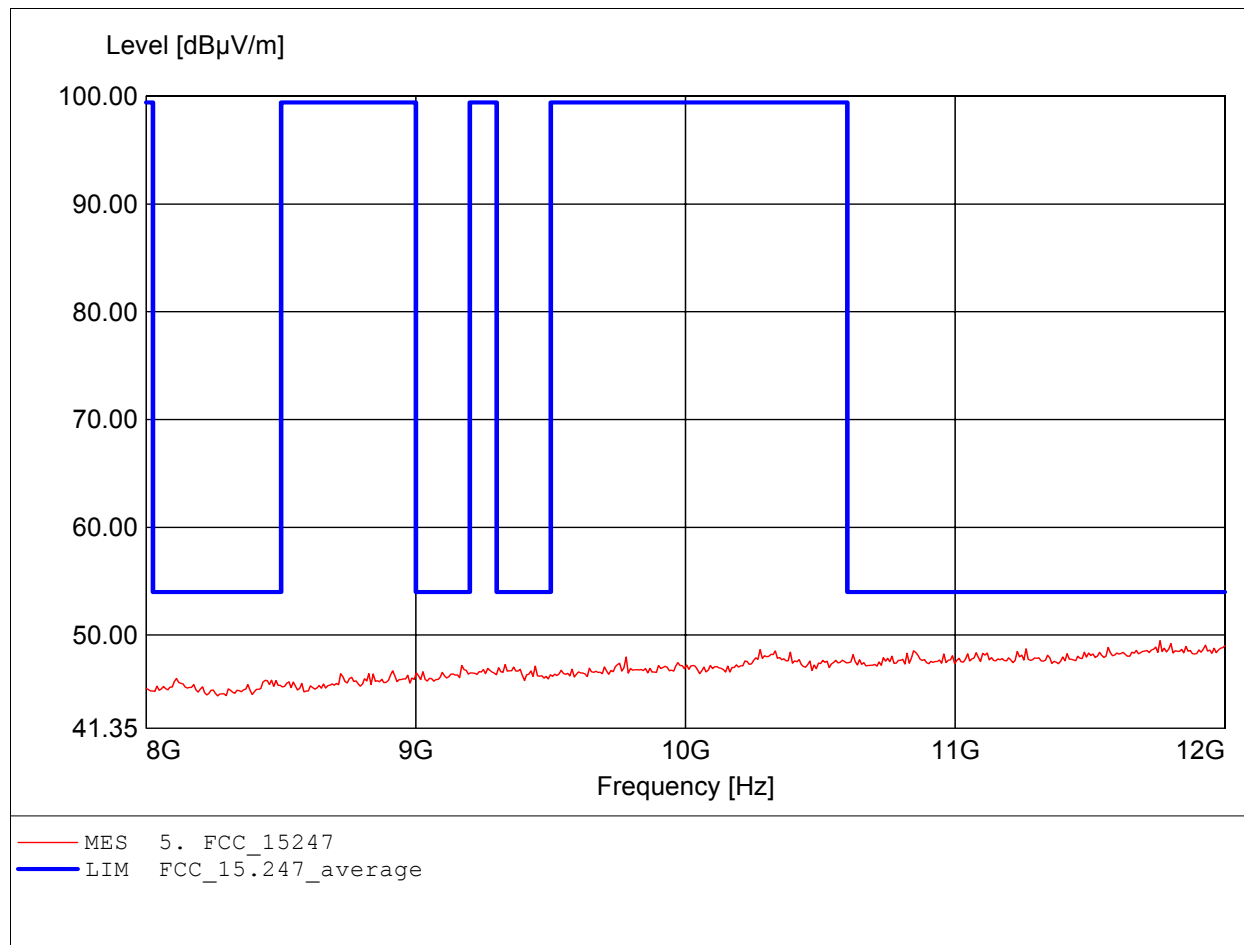
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.  
Freq: 7.920GHz, Emax: 53.91dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

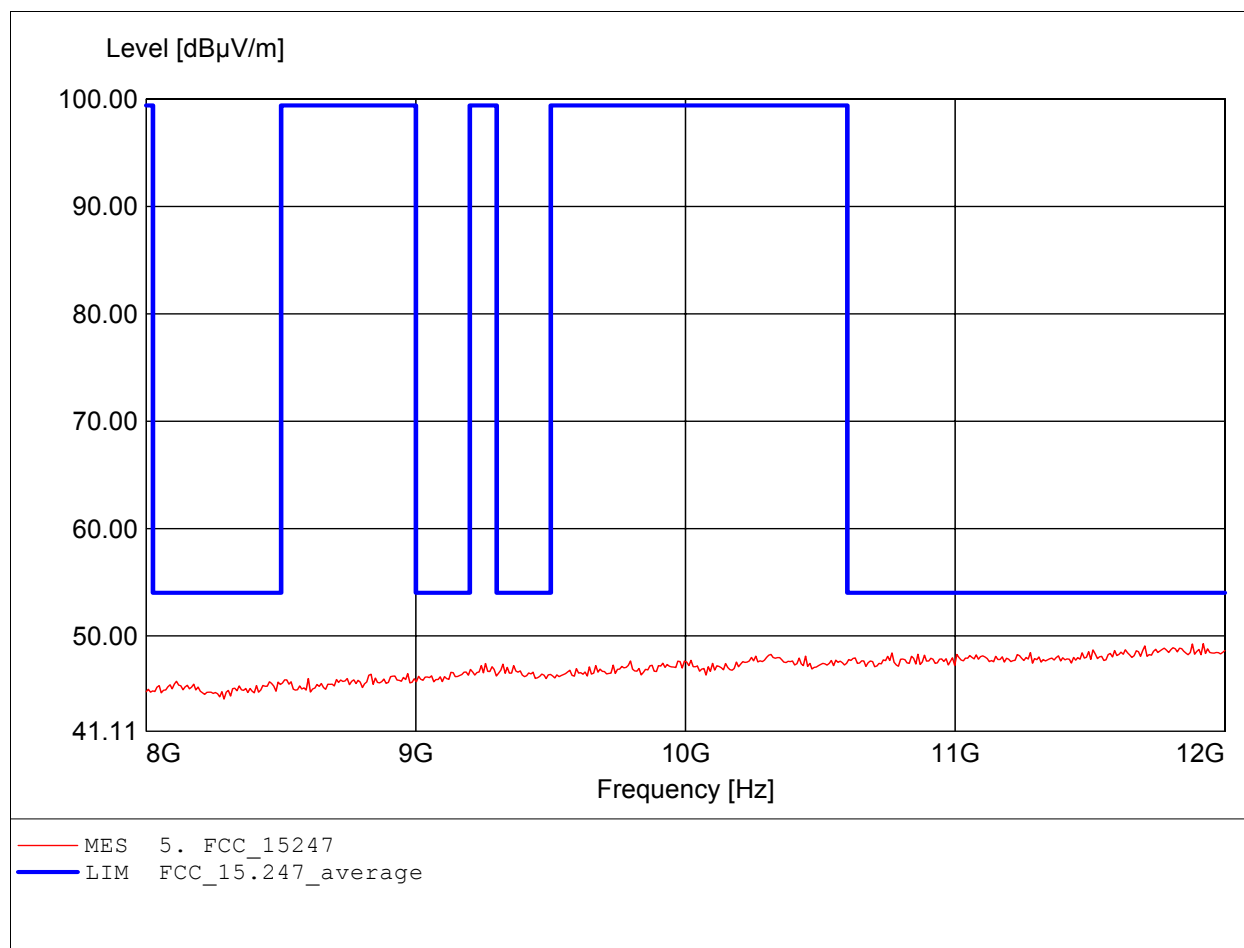
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.  
Freq: 11.760GHz, Emax: 49.47dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

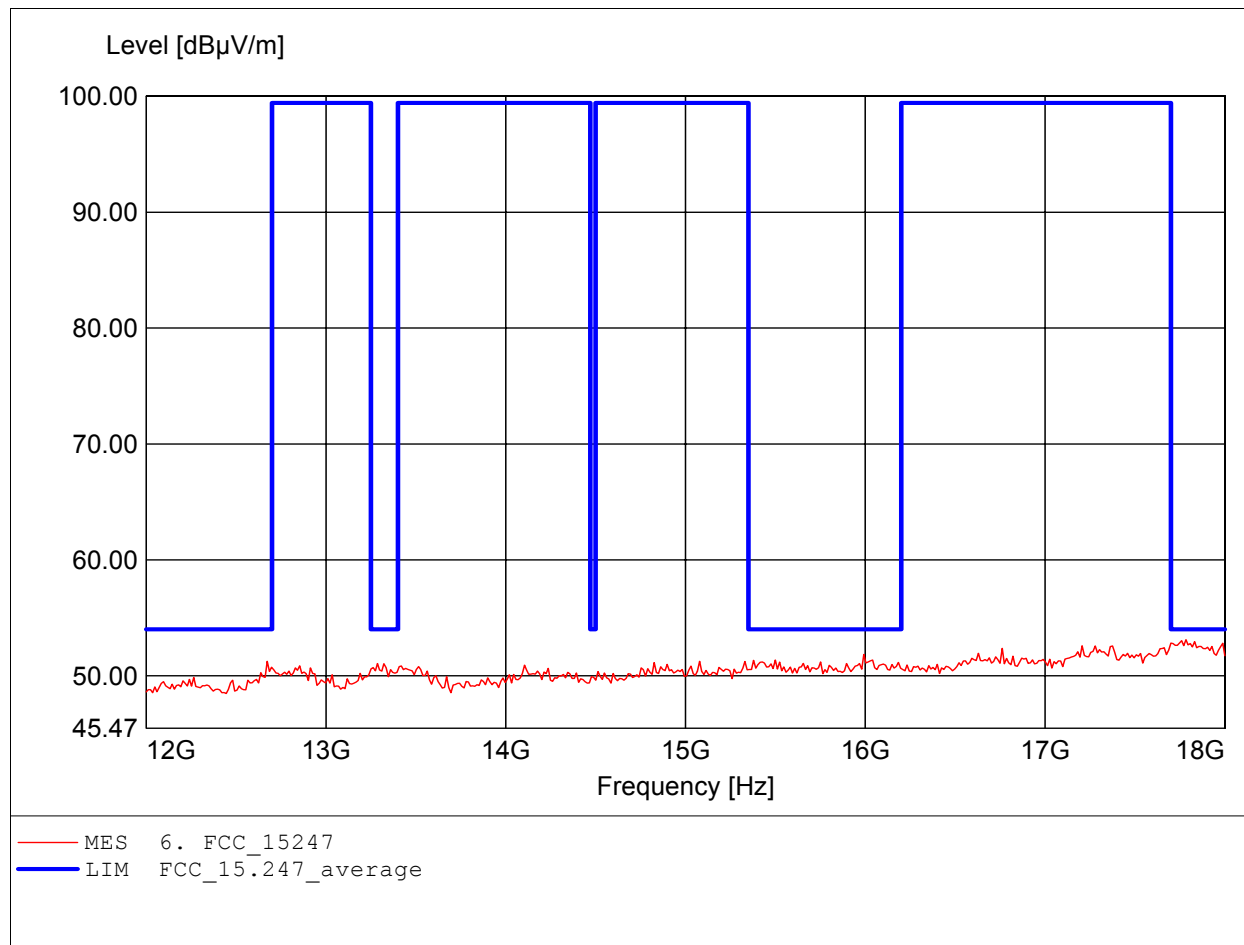
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.  
Freq: 11.920GHz, Emax: 49.26dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

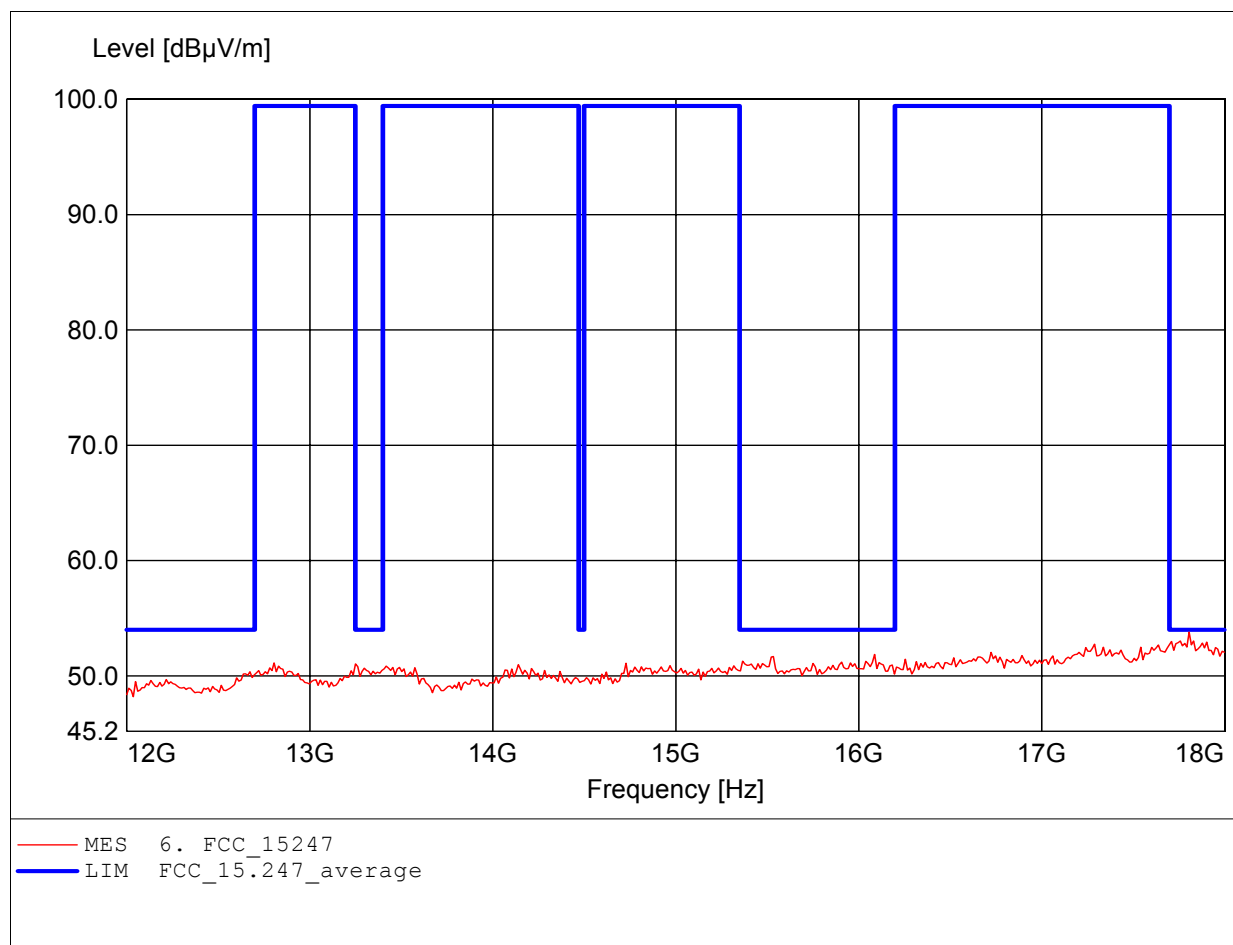
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.  
Freq: 17.784GHz, Emax: 53.10dBµV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

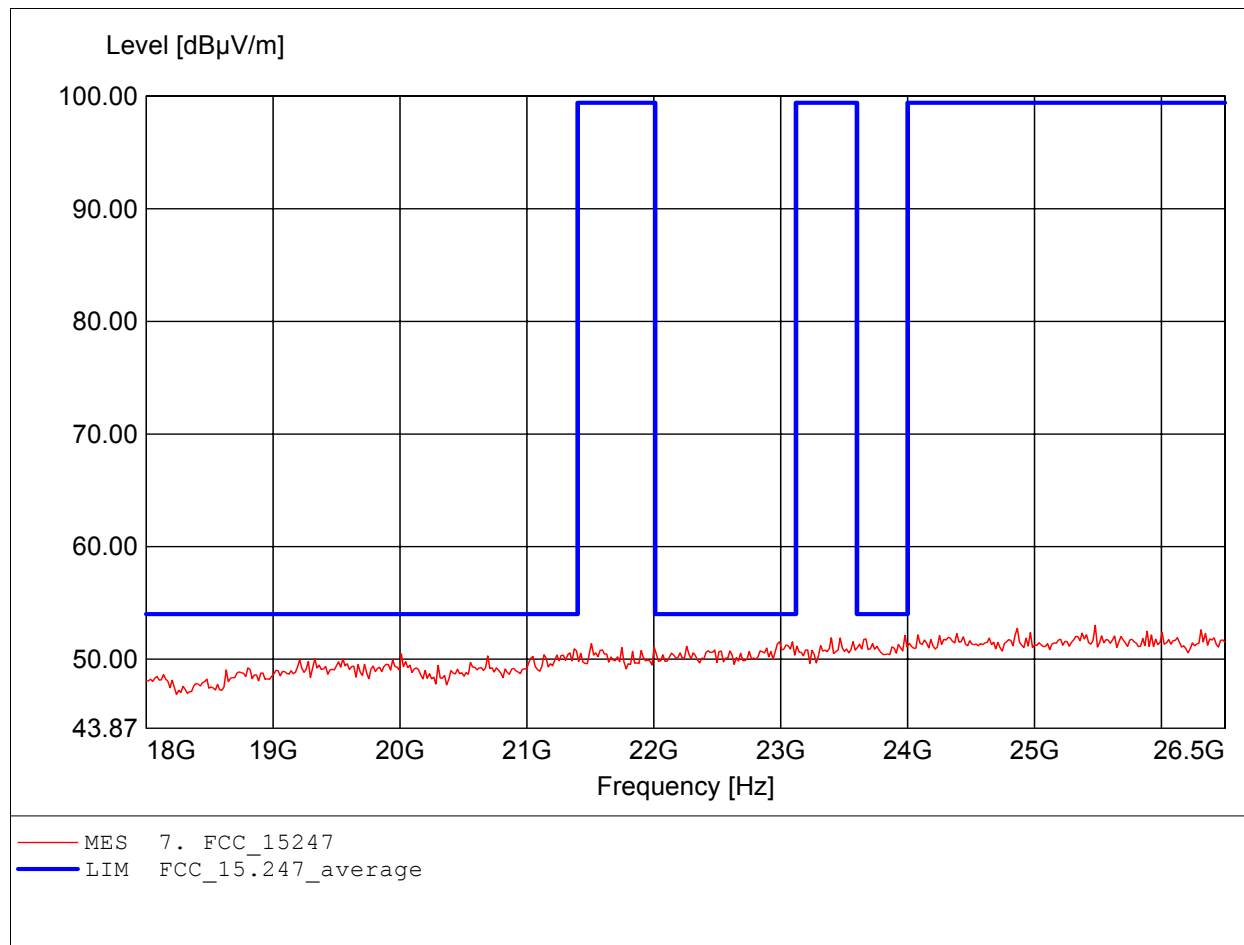
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.  
Freq: 17.808GHz, Emax: 53.79dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

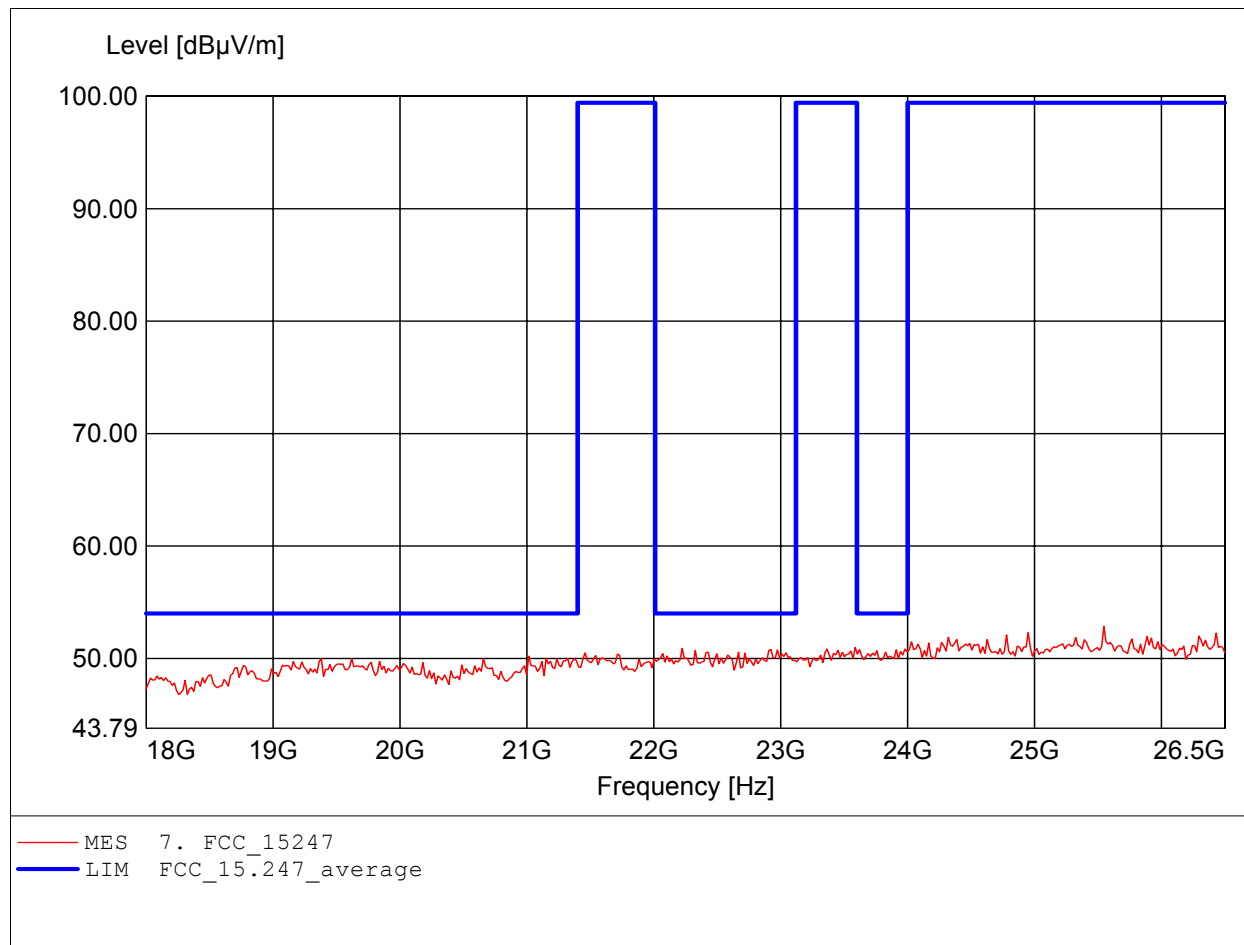
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Freq: 25.478GHz, Emax: 53.01dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

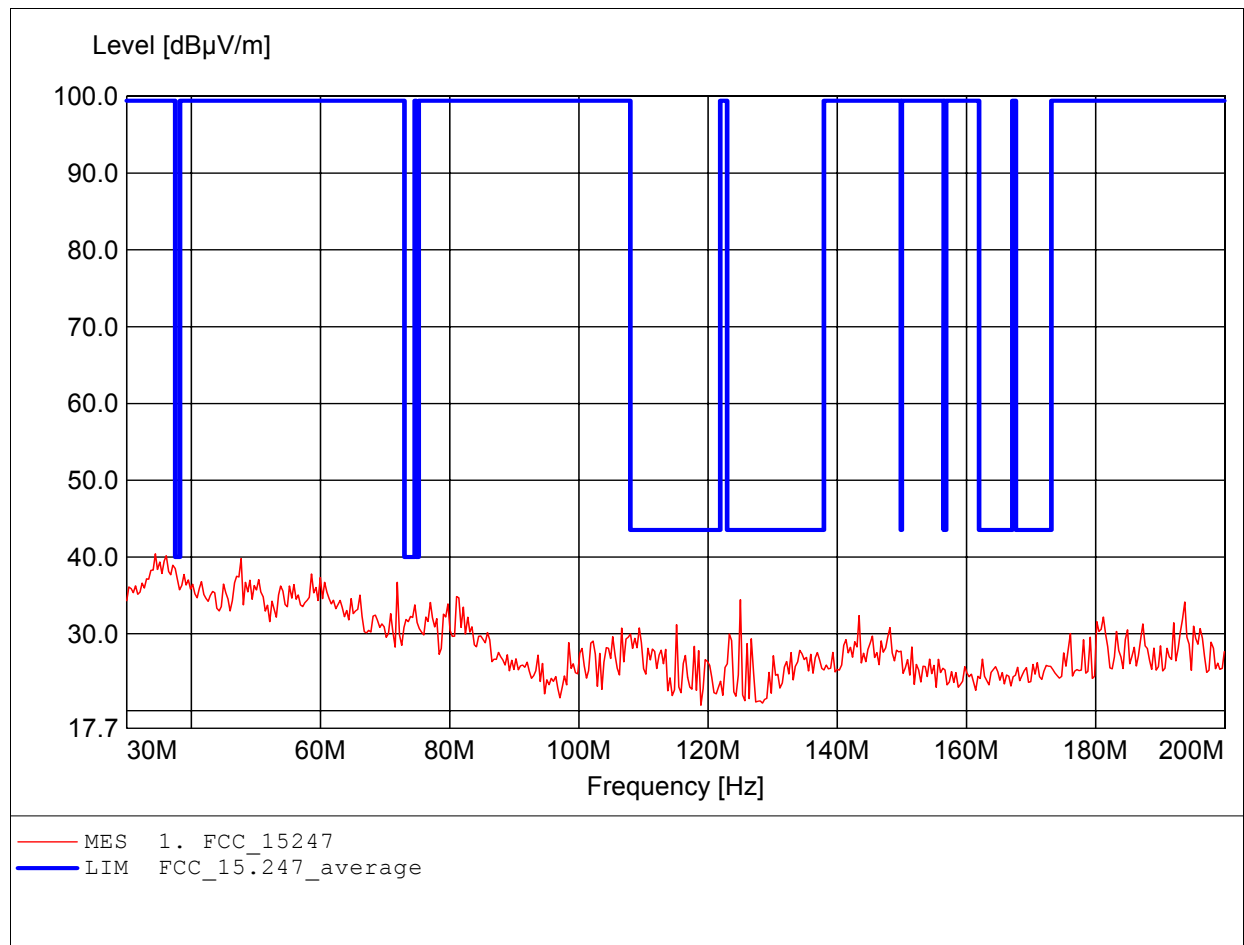
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Freq: 25.546GHz, Emax: 52.84dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Freq: 34.429MHz, Emax: 40.42dBμV/m, RBW: 100kHz

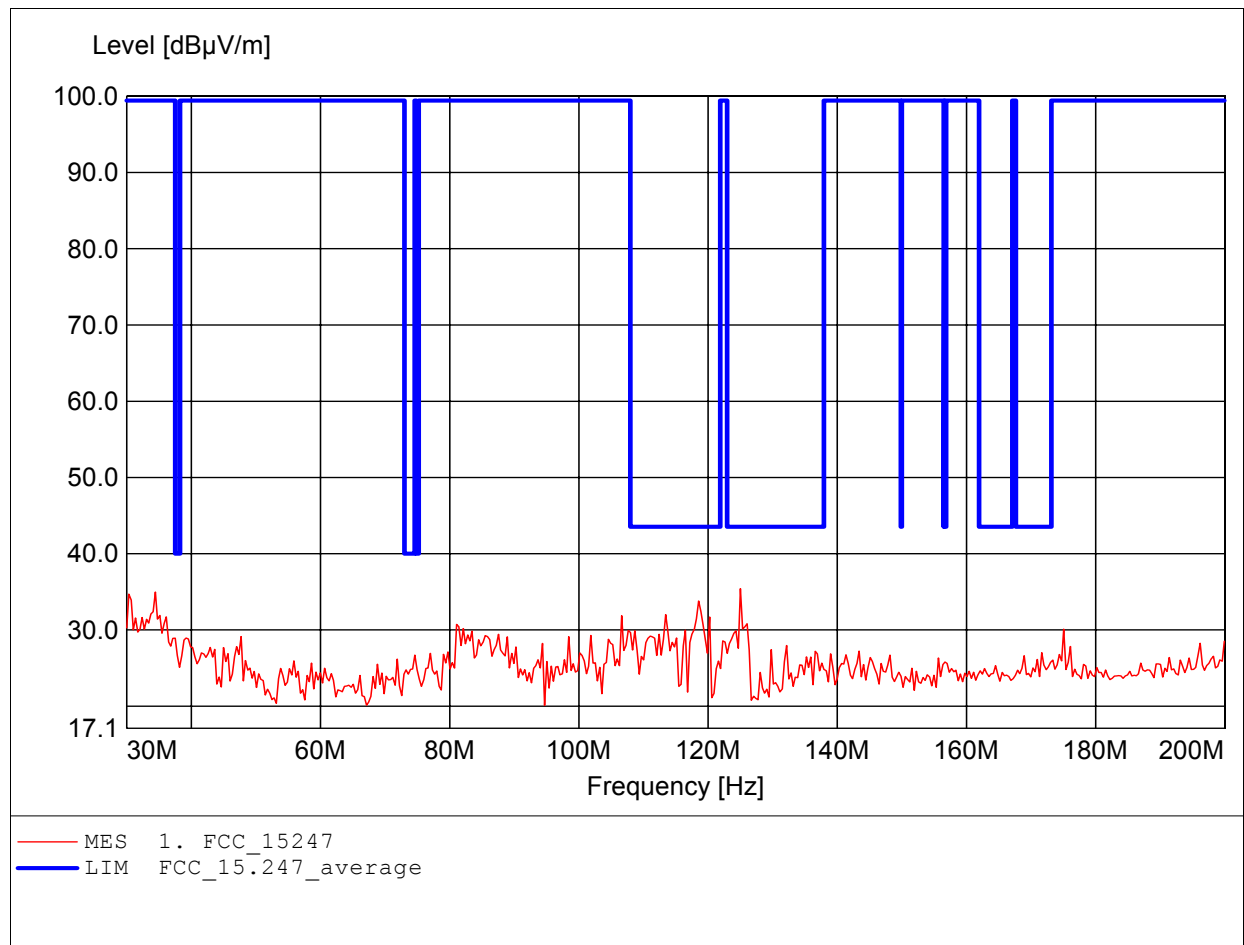




## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

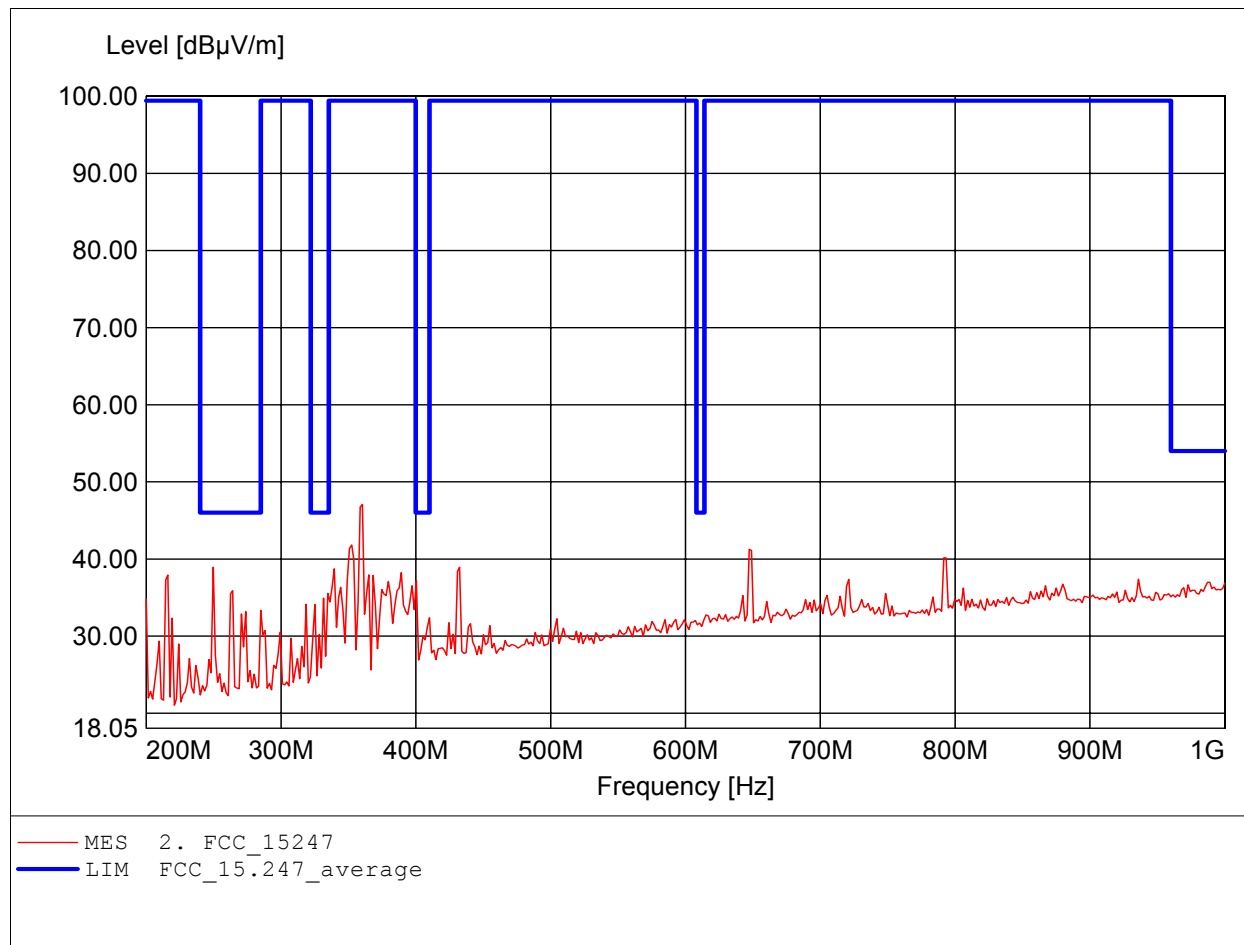
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Freq: 125.050MHz, Emax: 35.42dBµV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

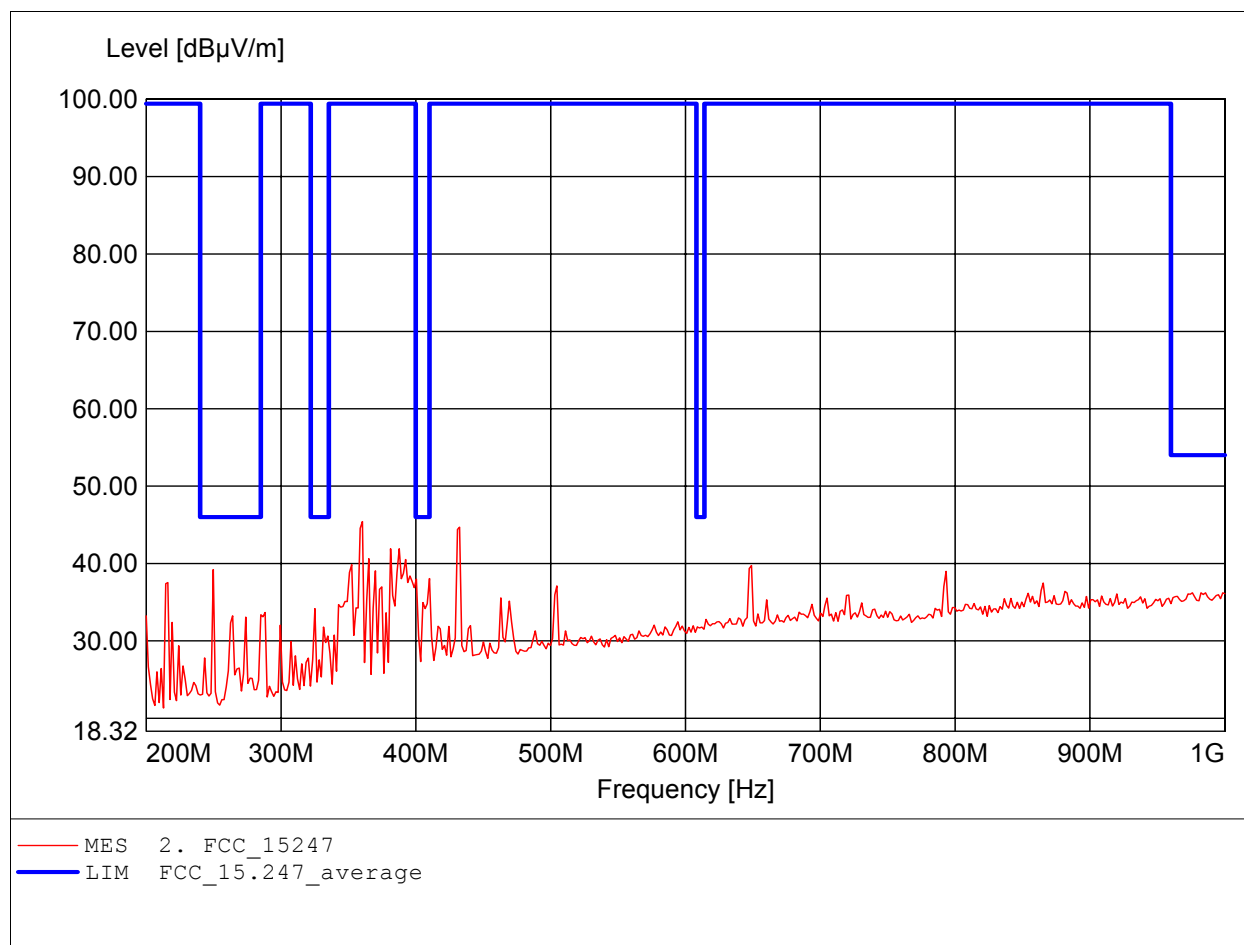
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223,  
Freq: 360.321MHz, Emax: 47.06dBµV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

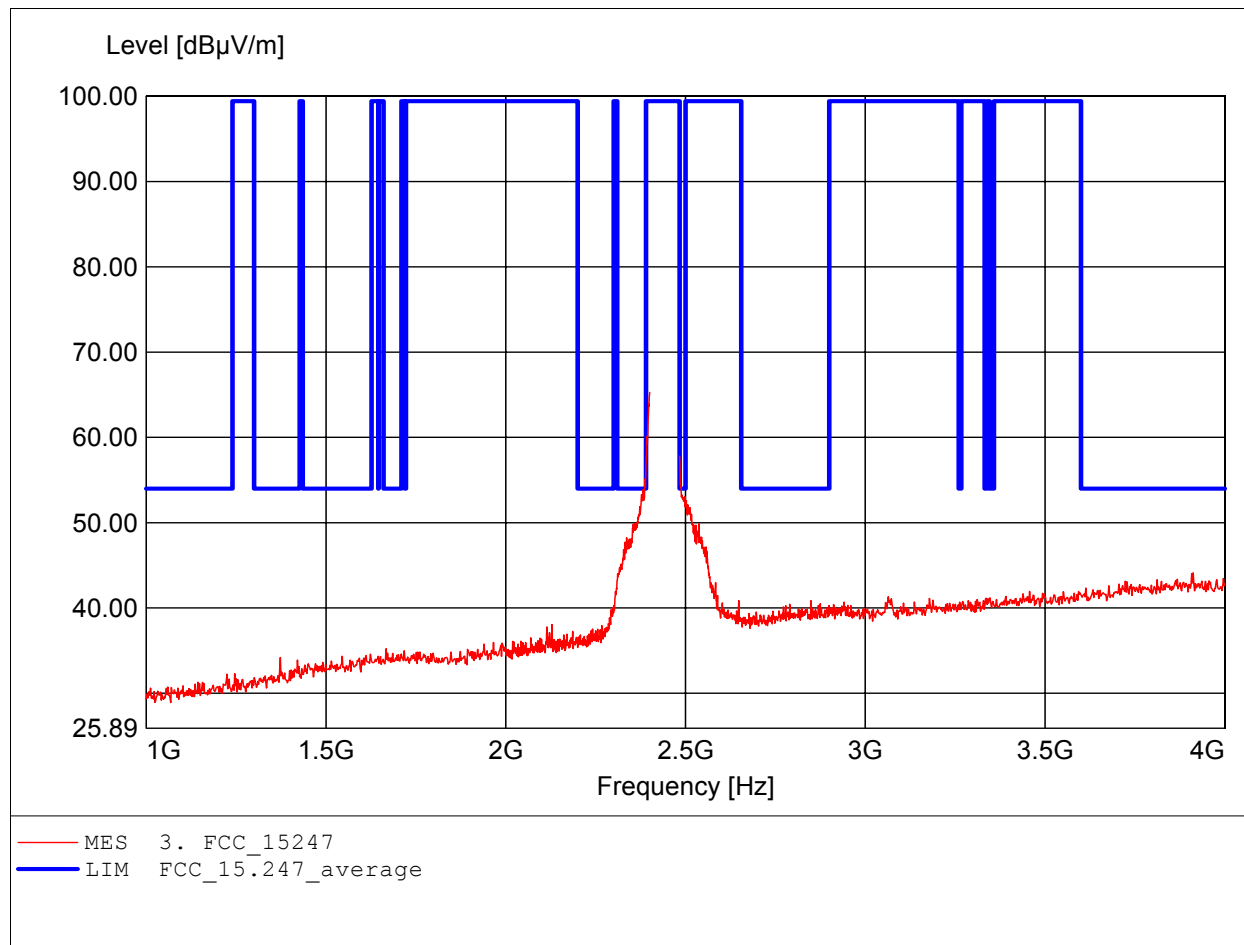
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223,  
Freq: 360.321MHz, Emax: 45.41dBµV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Freq: 2.400GHz, Emax: 65.27dBµV/m, RBW: 1MHz



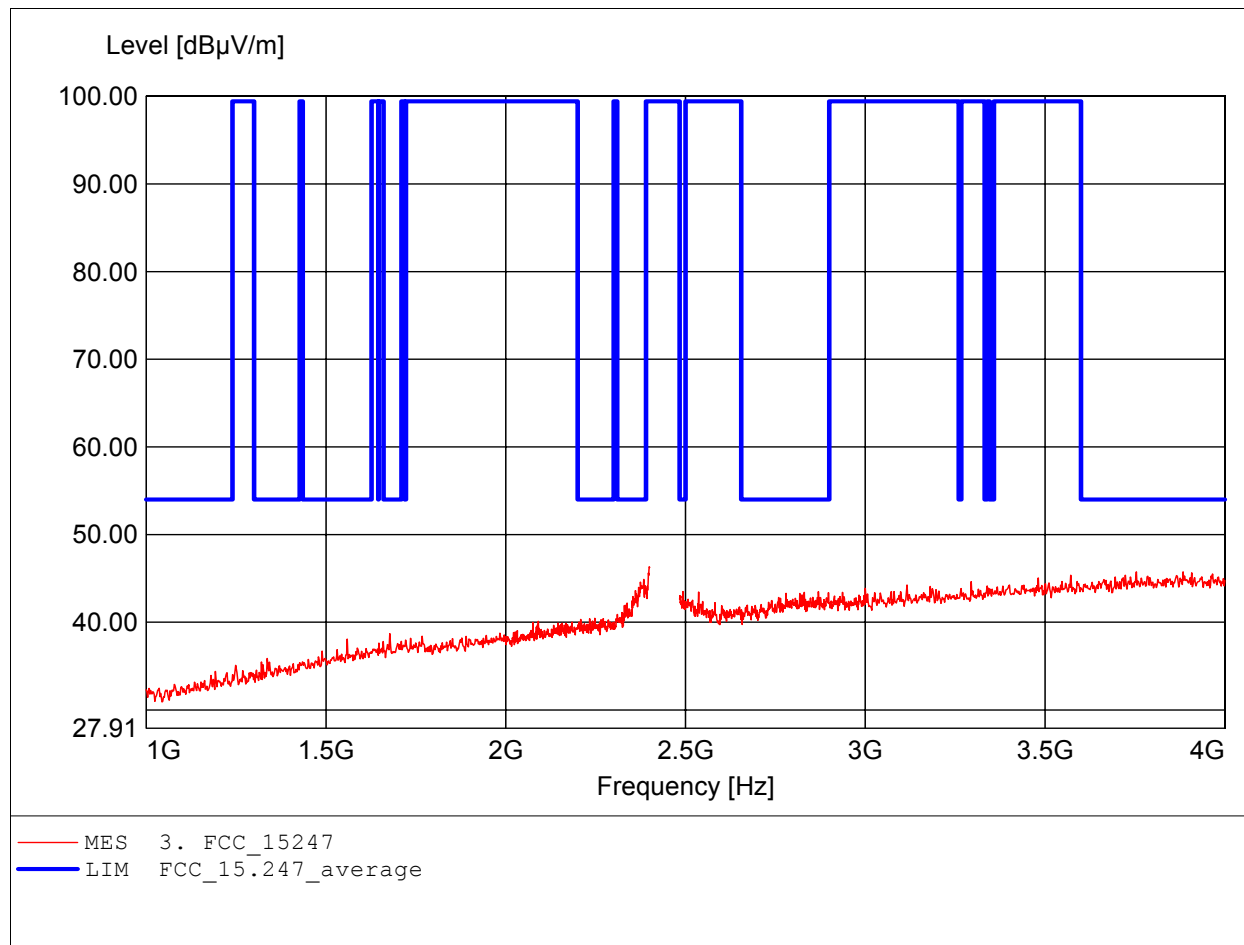
#### MEASUREMENT RESULT:

| Frequency<br>MHz | Level<br>dBµV | Limit<br>dBµV | Margin<br>dB | Detector |
|------------------|---------------|---------------|--------------|----------|
| 2.3900000        | 43.29         | 54.0          | 10.71        | Average  |
| 2.4835000        | 40.14         | 54.0          | 13.86        | Average  |

## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

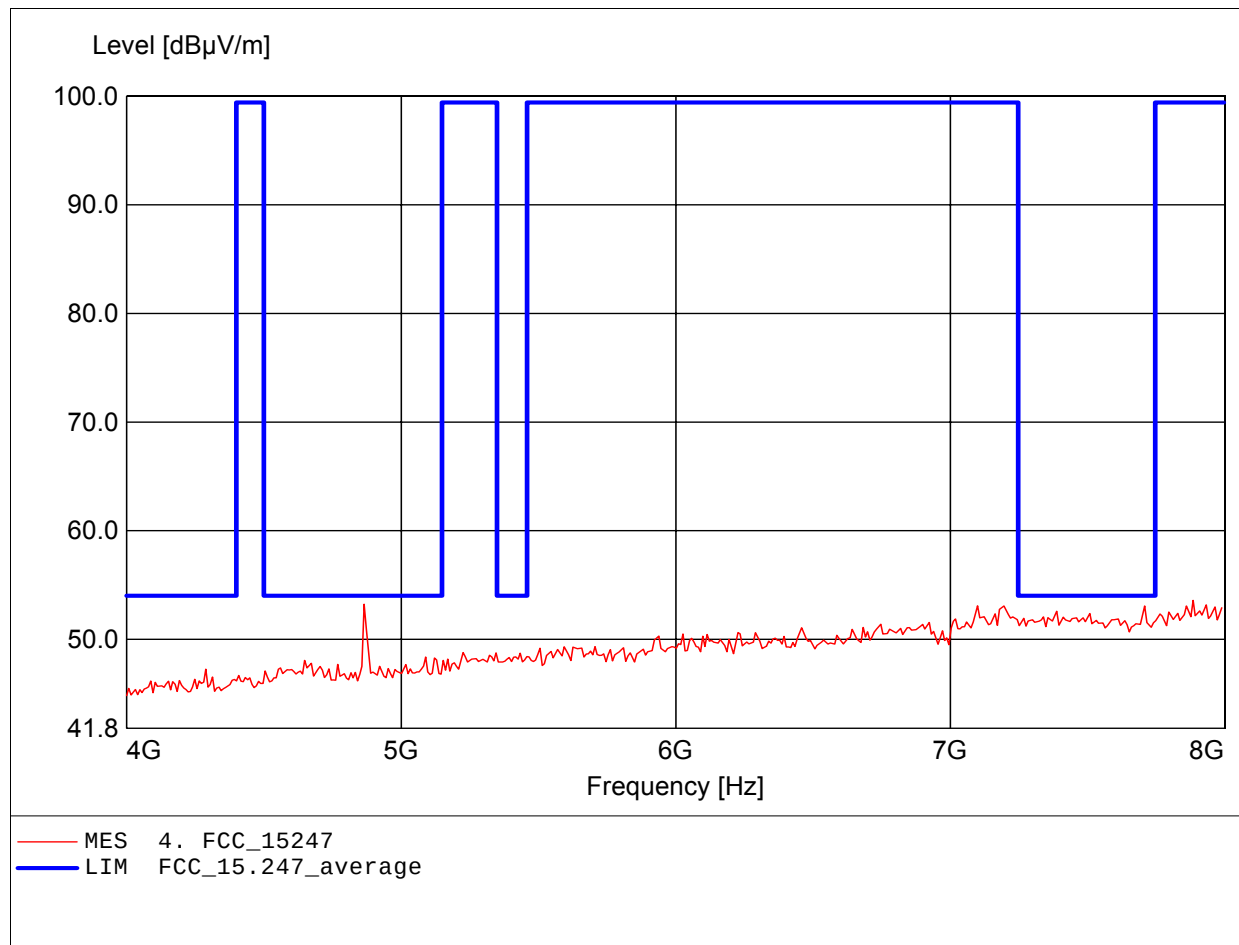
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Freq: 2.399GHz, Emax: 46.33dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peakdetector  
Comment 1: Dist.: 3m, Ant.: HL025, ampl.#P .  
Freq: 7.888GHz, Emax: 53.57dBµV/m, RBW: 1MHz



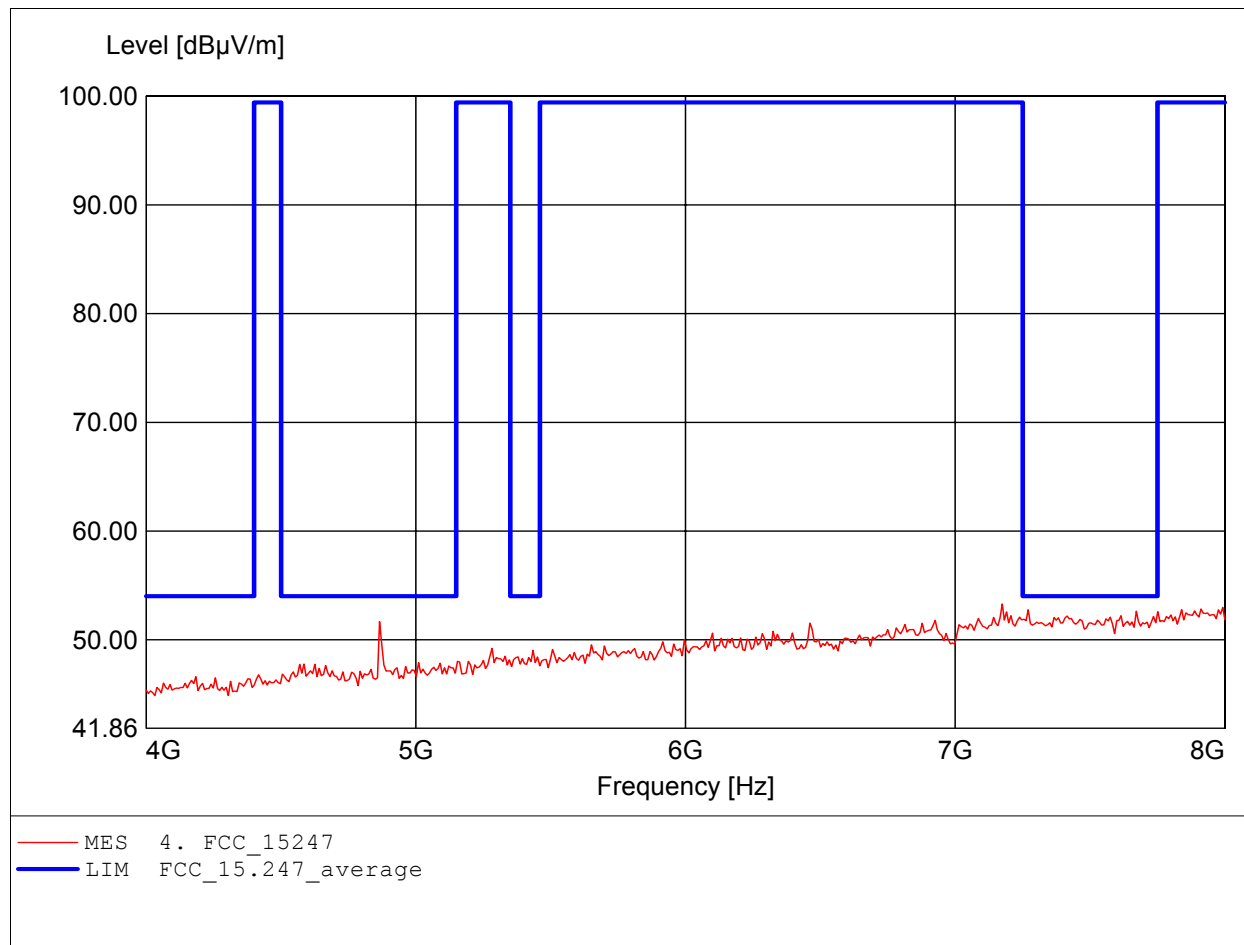
#### MEASUREMENT RESULT:

| Frequency<br>MHz | Level<br>dBµV | Limit<br>dBµV | Margin<br>dB | Detector |
|------------------|---------------|---------------|--------------|----------|
| 4.8657314        | 50.08         | 54.0          | 3.92         | Average  |

## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

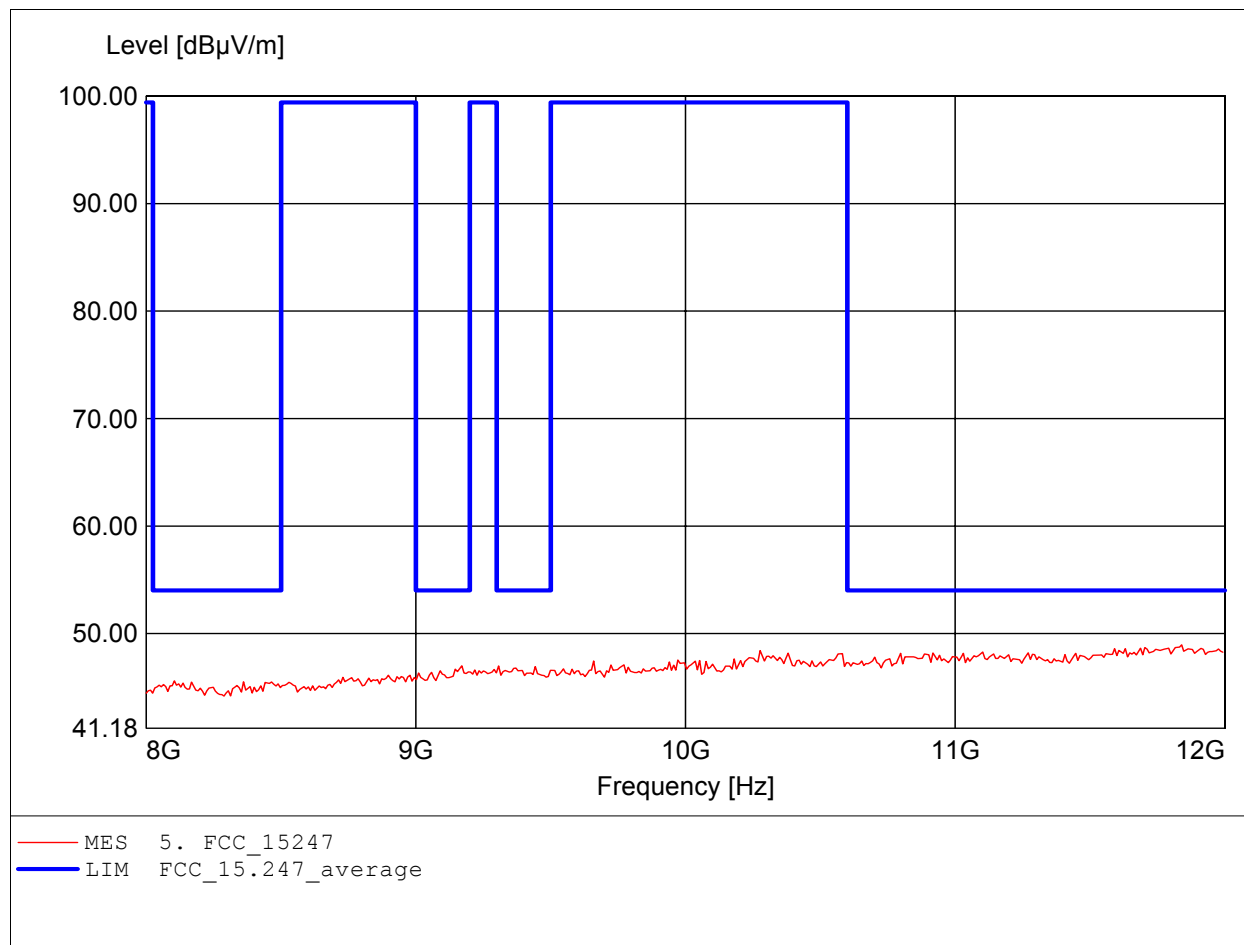
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.  
Freq: 7.174GHz, Emax: 53.28dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peakdetector  
Comment 1: Dist.: 3m, Ant.: HL025, ampl.#P.  
Freq: 11.840GHz, Emax: 48.9dBμV/m, RBW: 1MHz

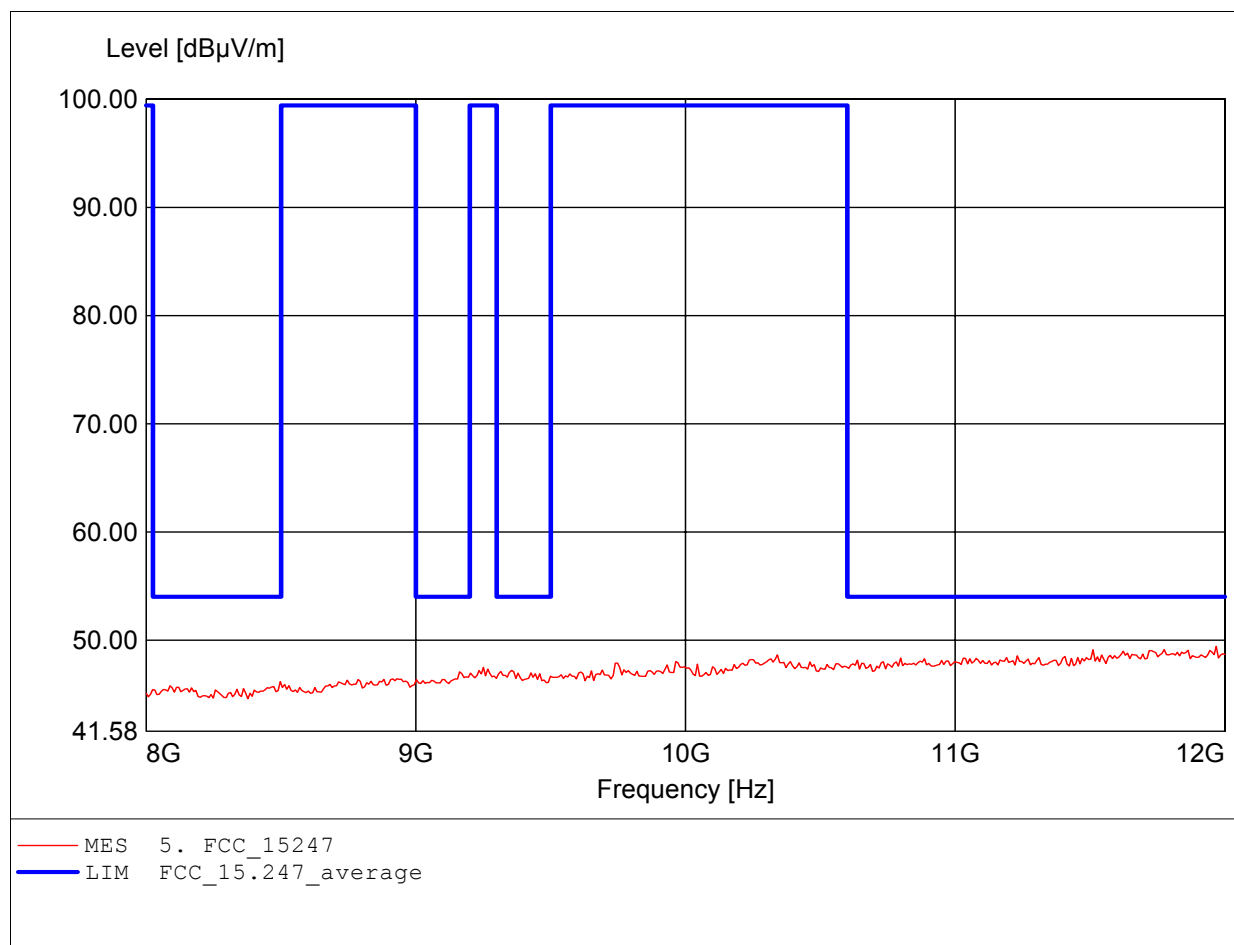




## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

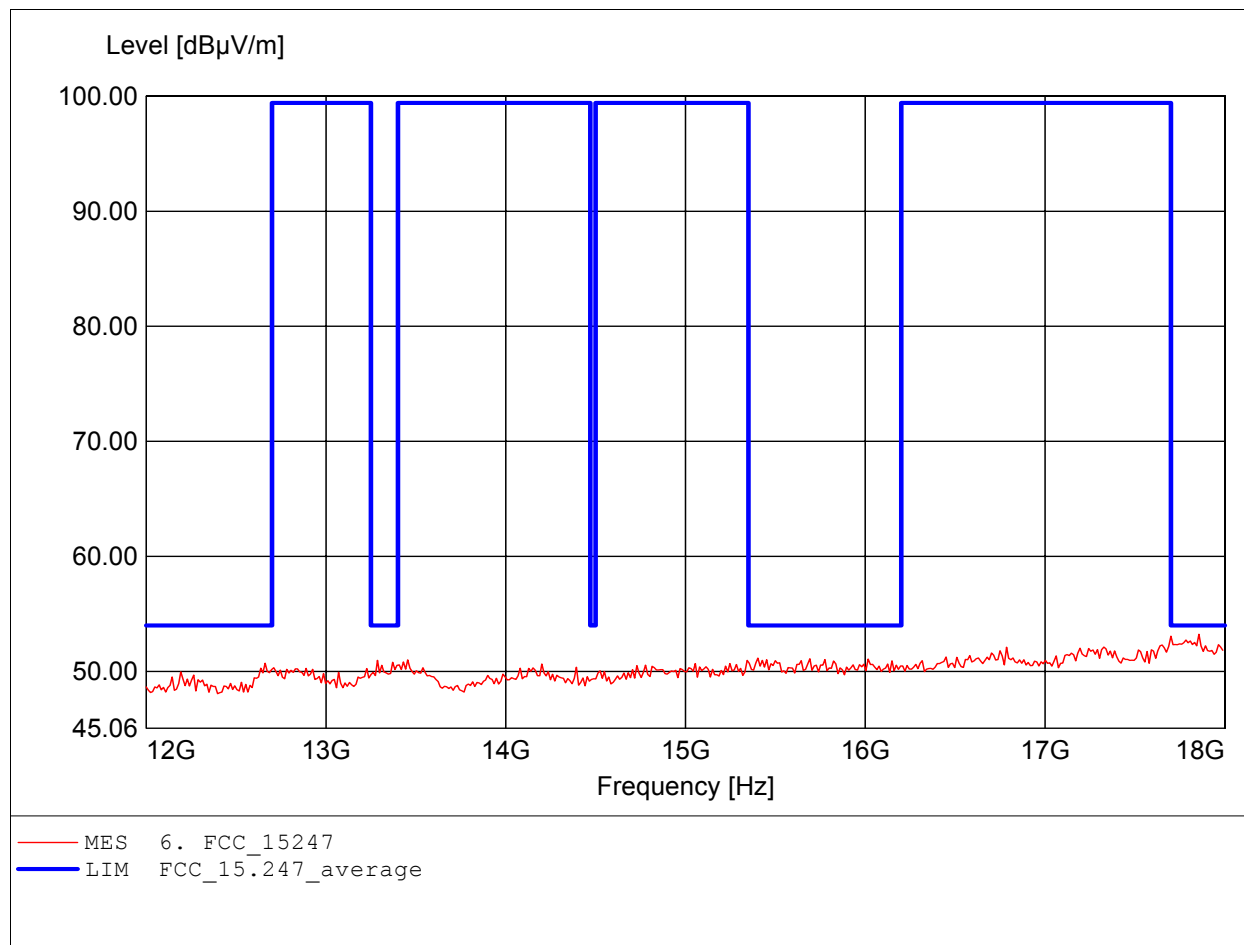
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.  
Freq: 11.968GHz, Emax: 49.42dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

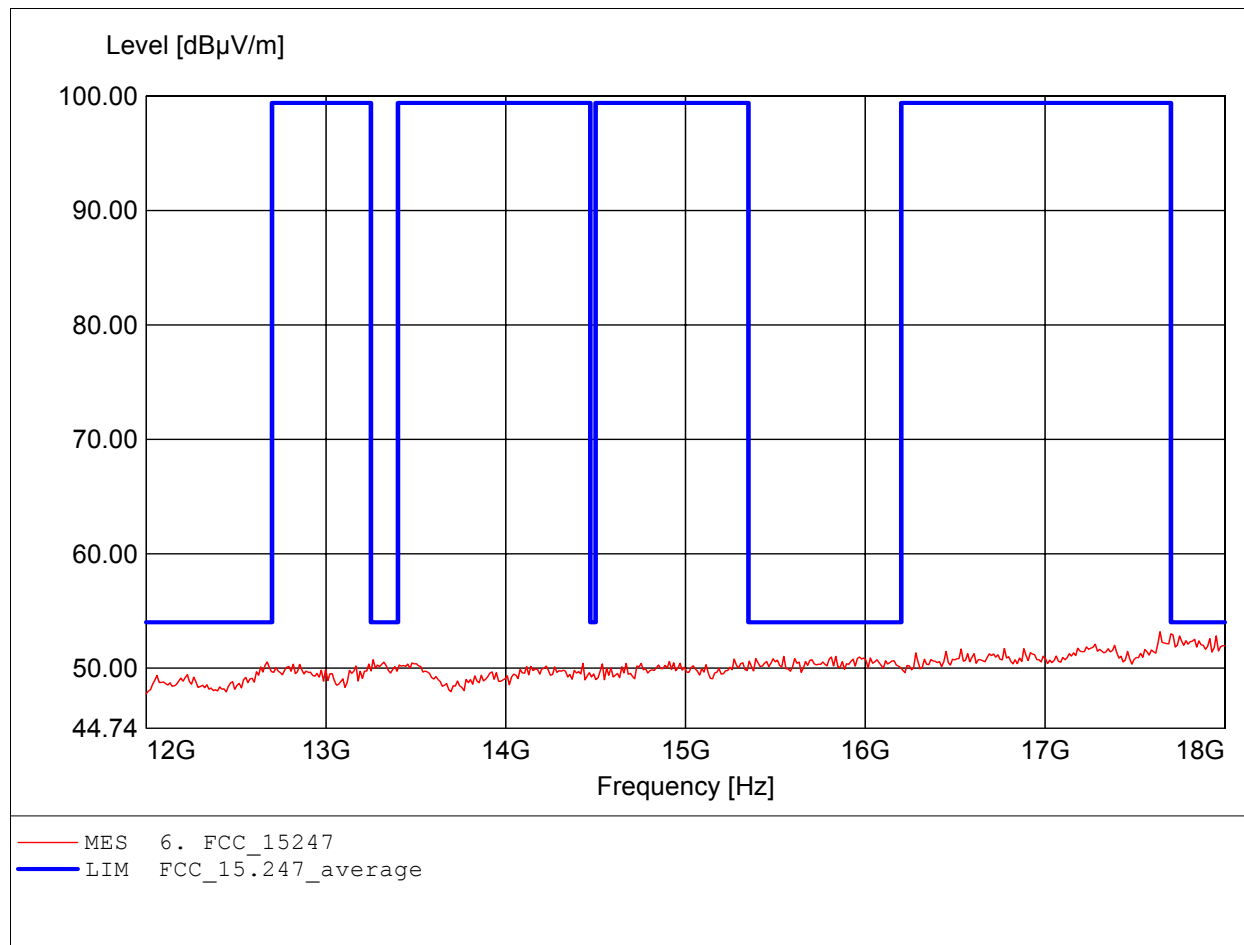
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peakdetector  
Comment 1: Dist.: 3m, Ant.: HL025, ampl.#P.  
Freq: 17.856GHz, Emax: 53.22dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

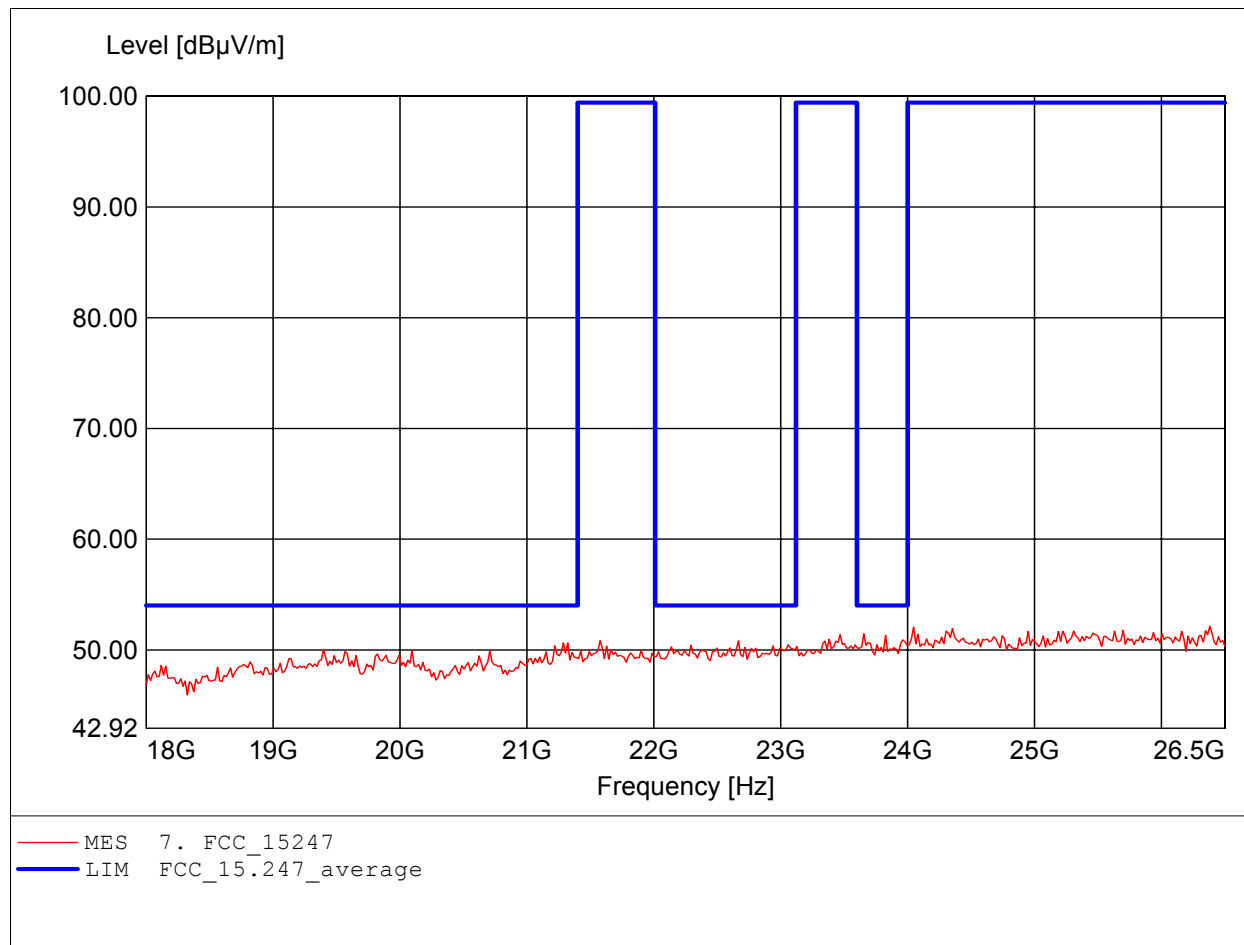
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.  
Freq: 17.639GHz, Emax: 53.18dBµV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

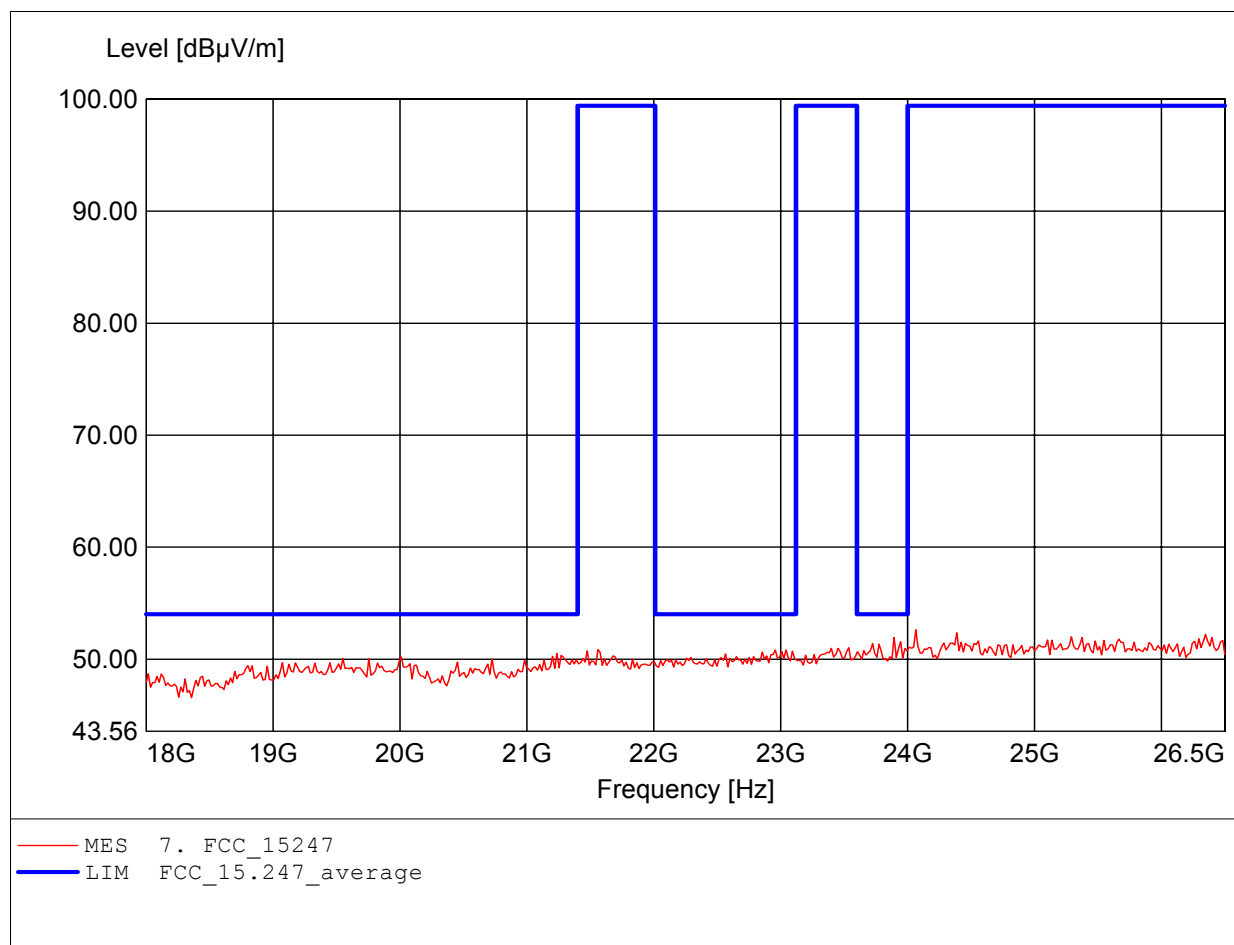
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Freq: 26.381GHz, Emax: 52.13dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

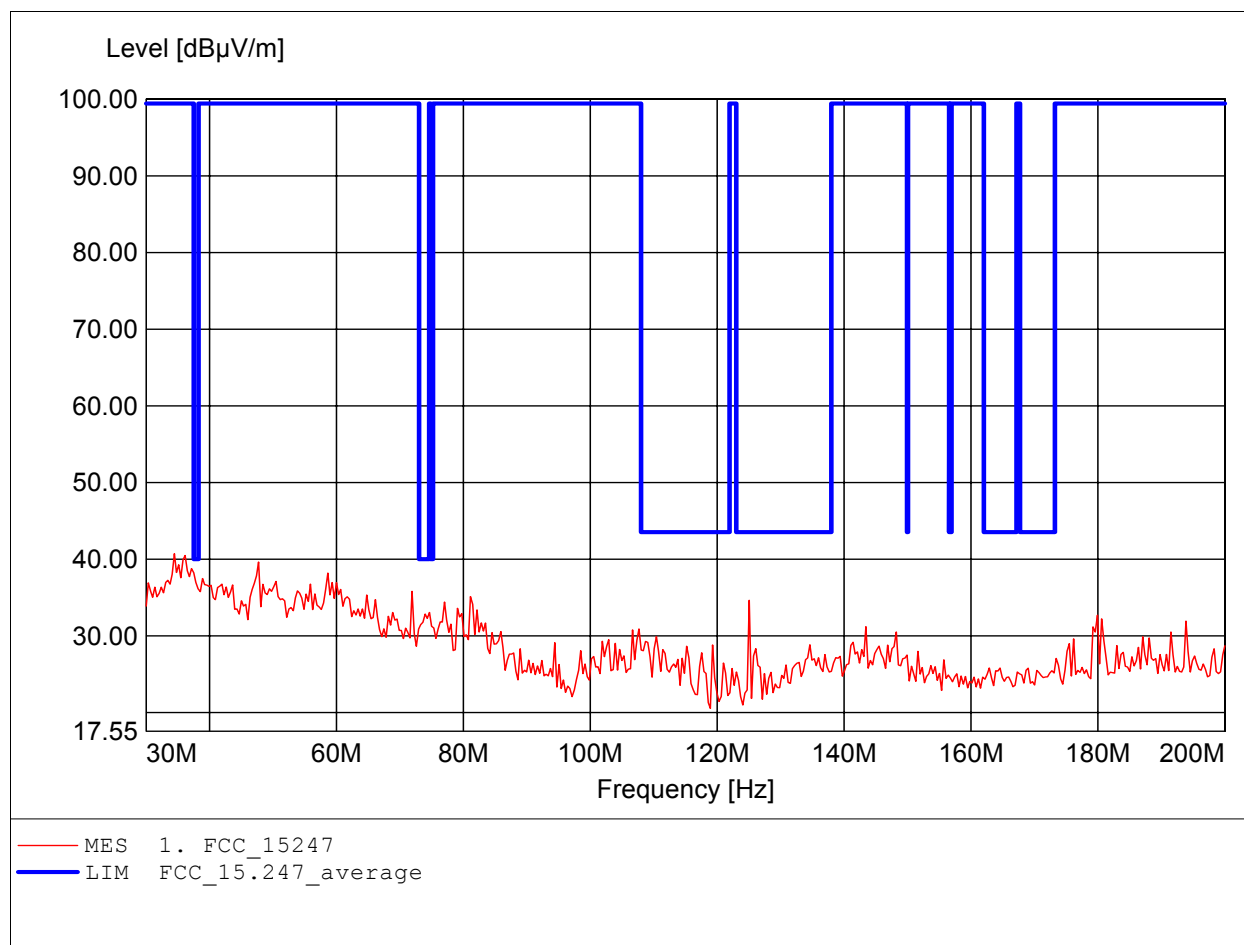
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Freq: 24.064GHz, Emax: 52.62dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

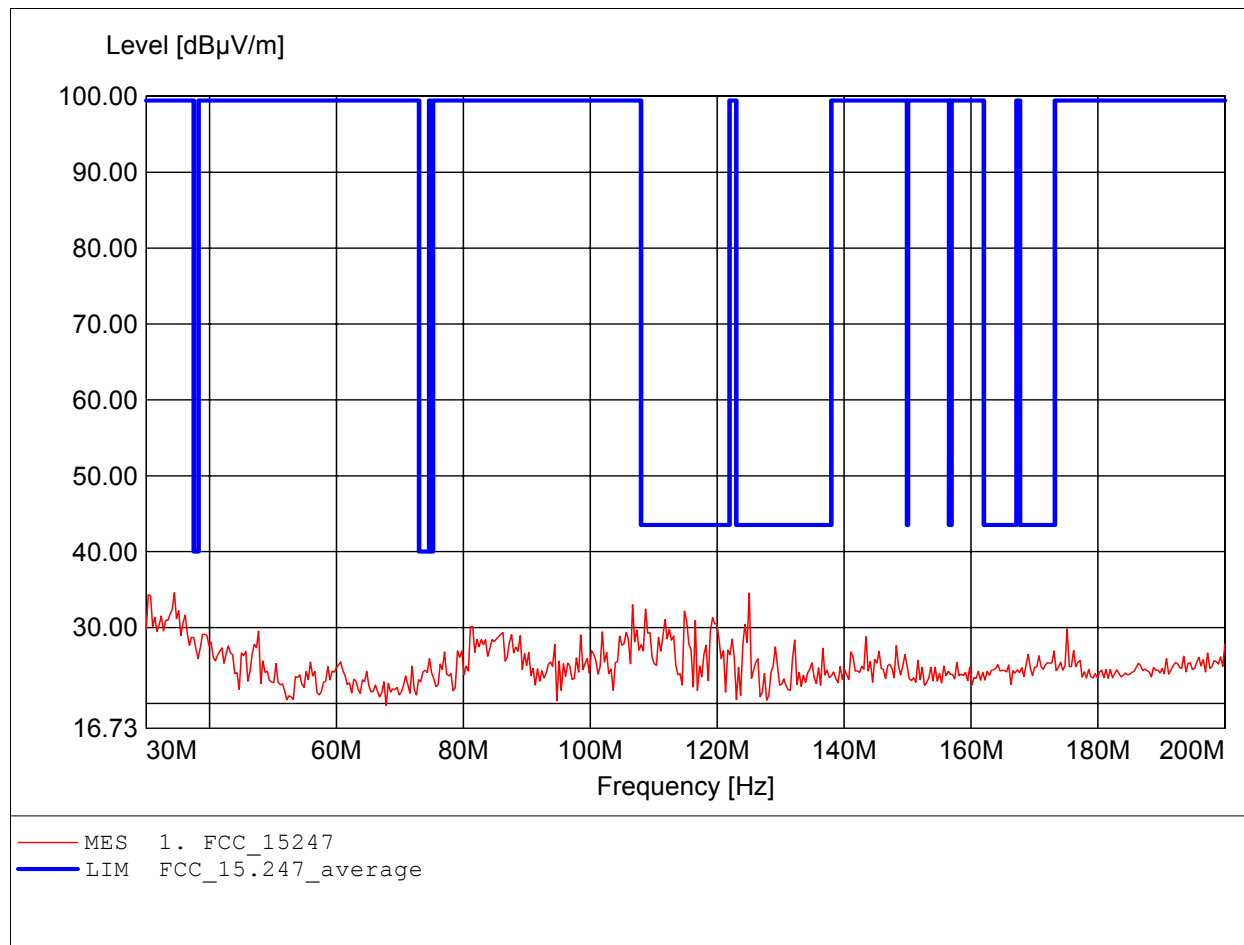
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Freq: 34.429MHz, Emax: 40.70dBµV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

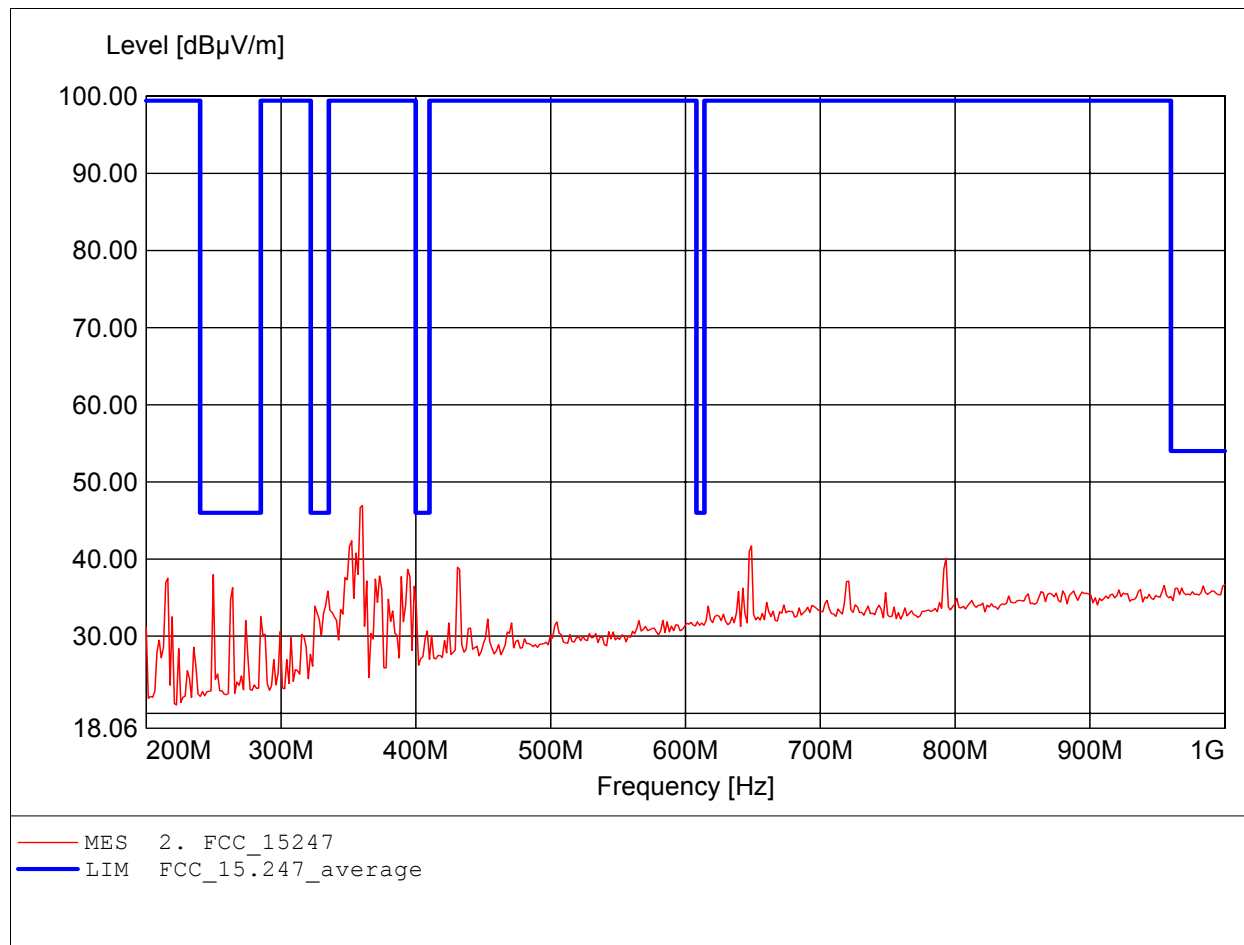
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Freq: 34.429MHz, Emax: 34.60dBμV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223,  
Freq: 360.321MHz, Emax: 46.95dBµV/m, RBW: 100kHz

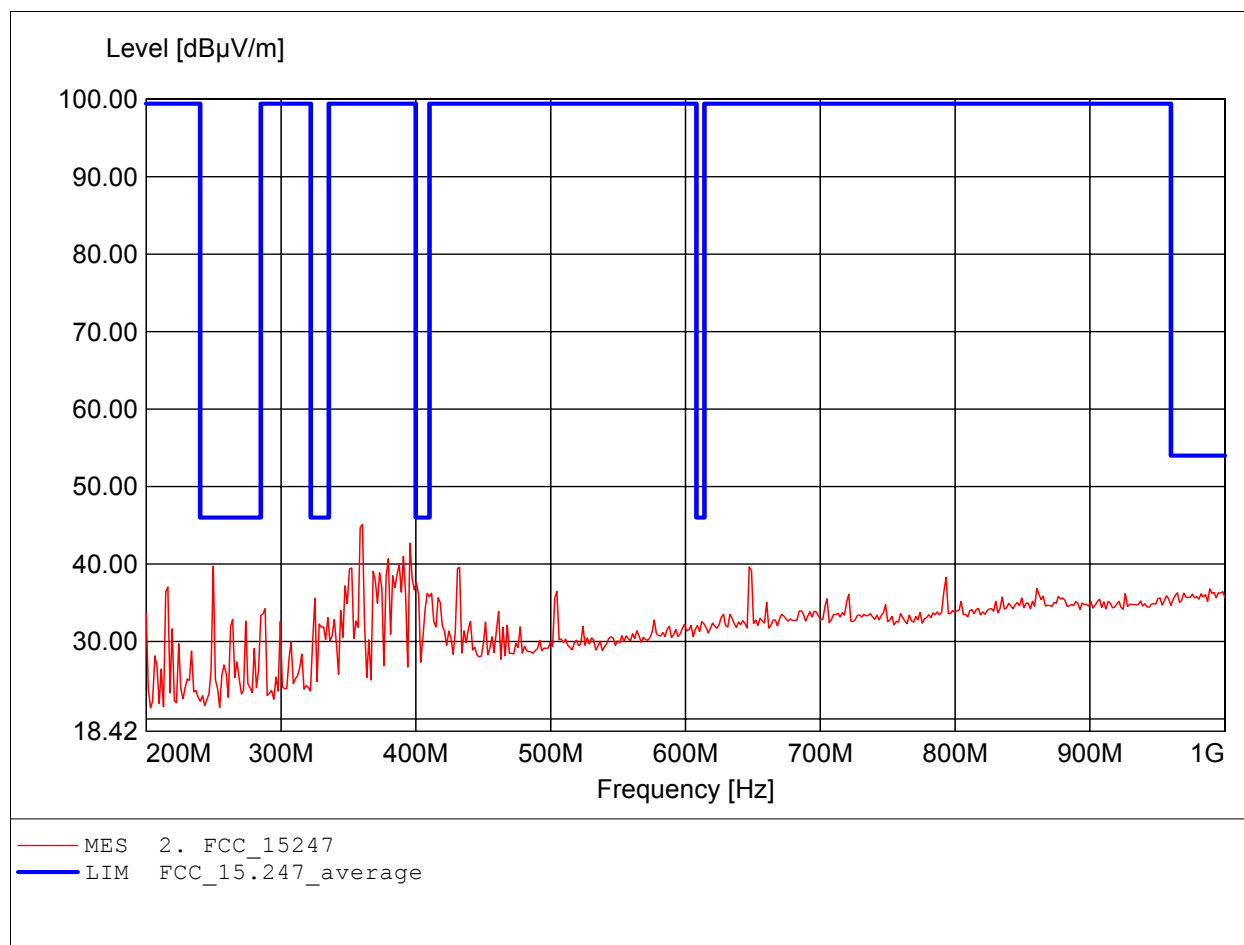




## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

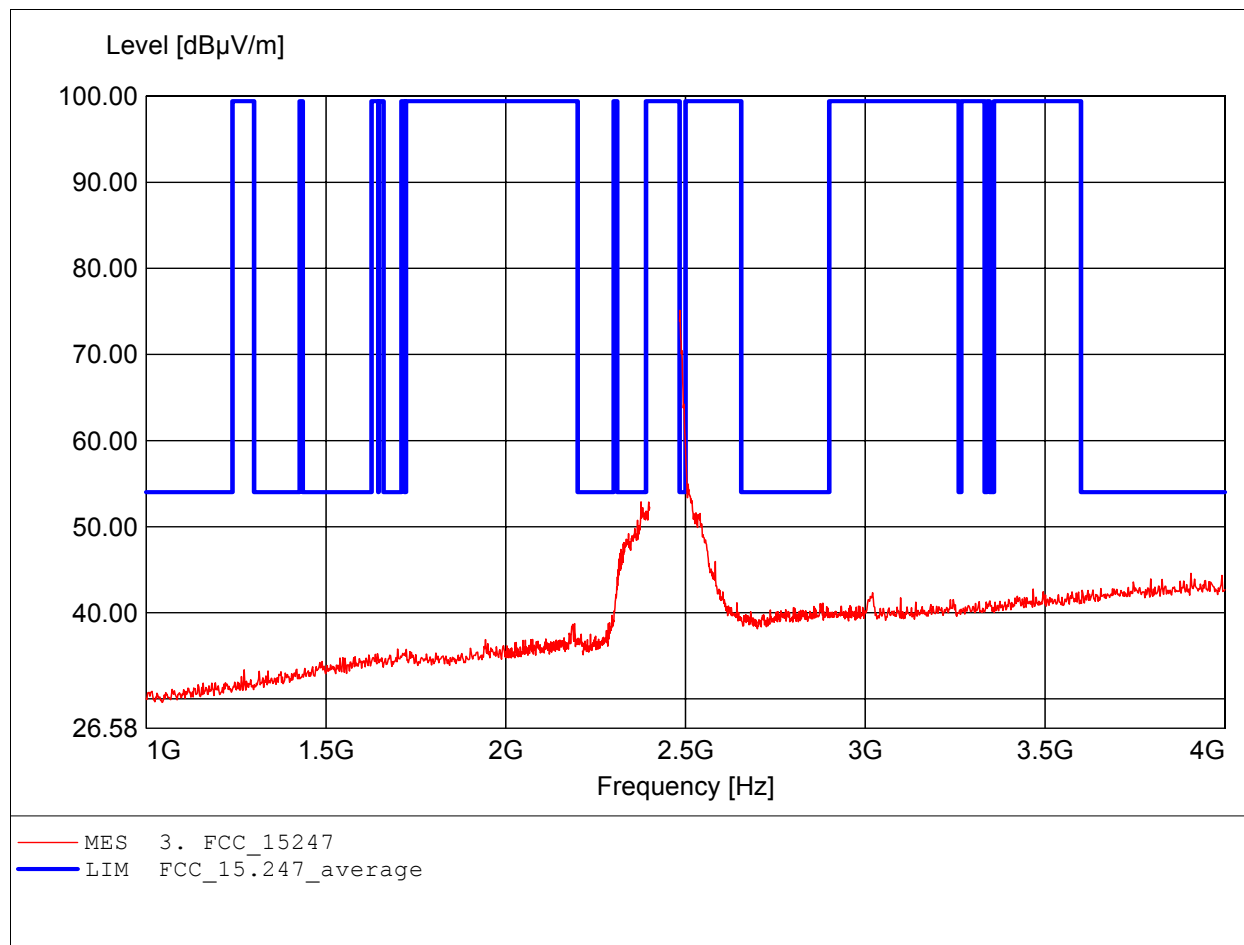
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223,  
Freq: 360.321MHz, Emax: 45.11dBµV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Freq: 2.485GHz, Emax: 73.14dBµV/m, RBW: 1MHz



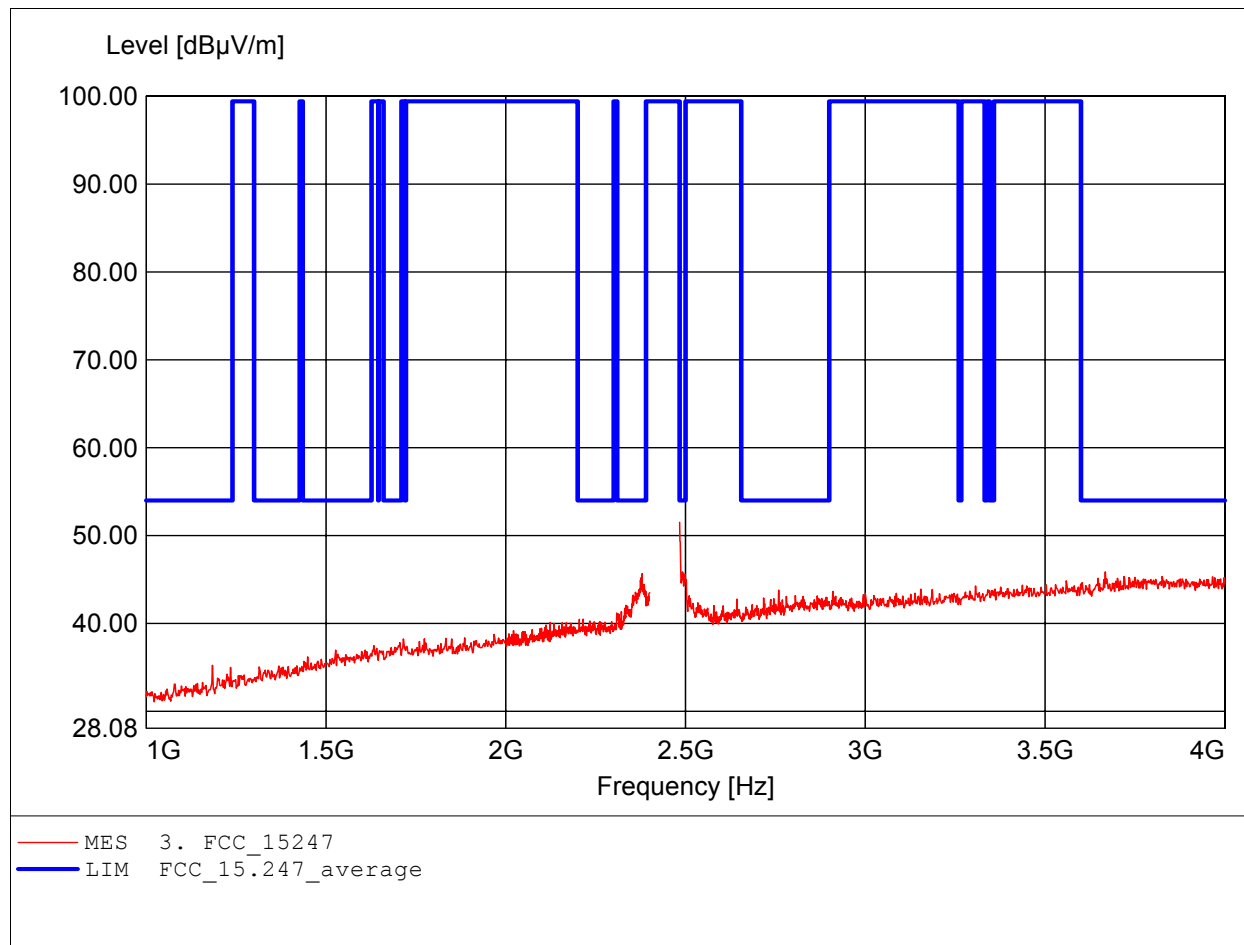
#### MEASUREMENT RESULT:

| Frequency<br>MHz | Level<br>dBµV | Limit<br>dBµV | Margin<br>dB | Detector |
|------------------|---------------|---------------|--------------|----------|
| 2.3900000        | 52.25         | 54.0          | 2.75         | PK       |
| 2.4835000        | 51.24         | 54.0          | 3.76         | Average  |

## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

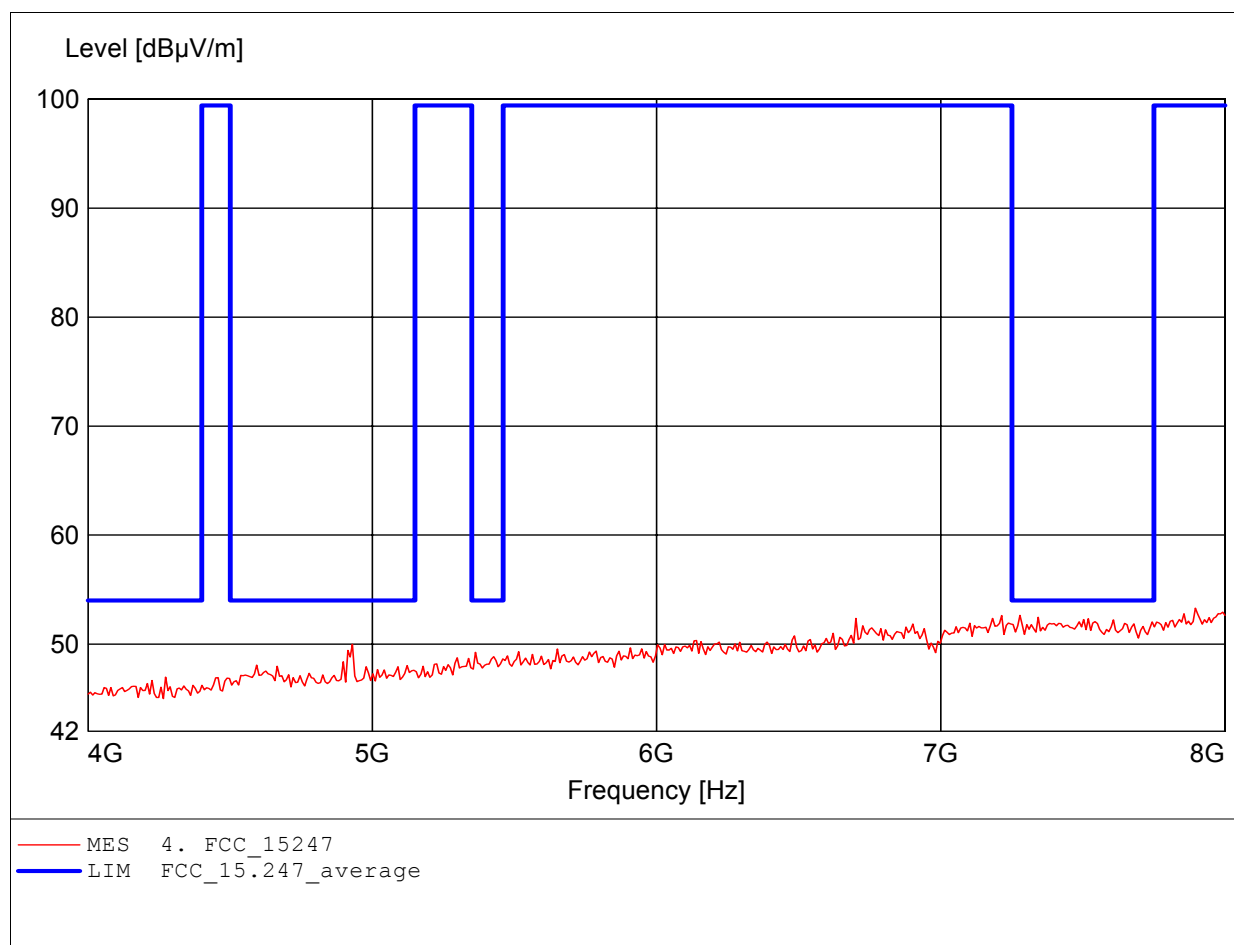
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Freq: 2.484GHz, Emax: 51.52dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

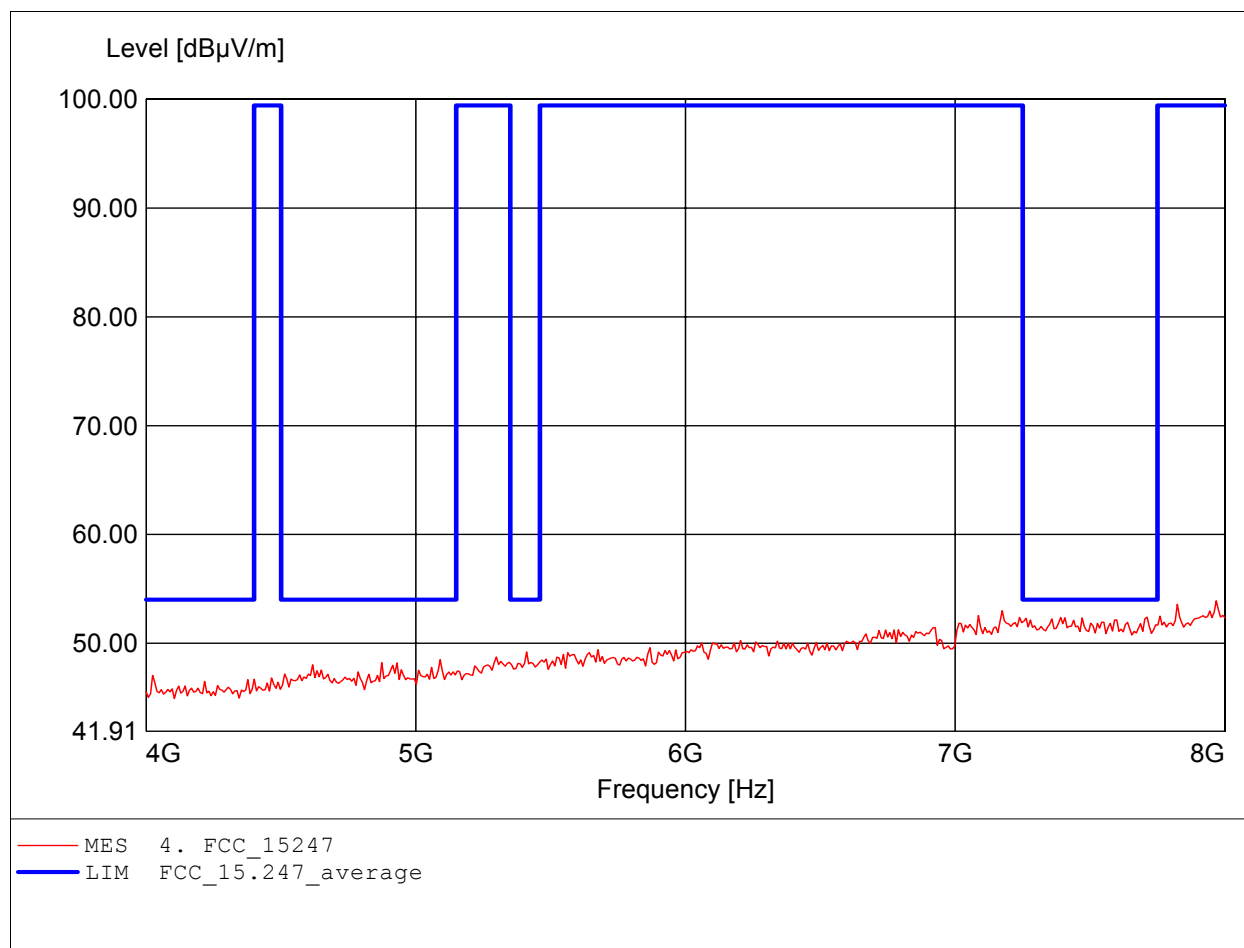
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.  
Freq: 7.896GHz, Emax: 53.29dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

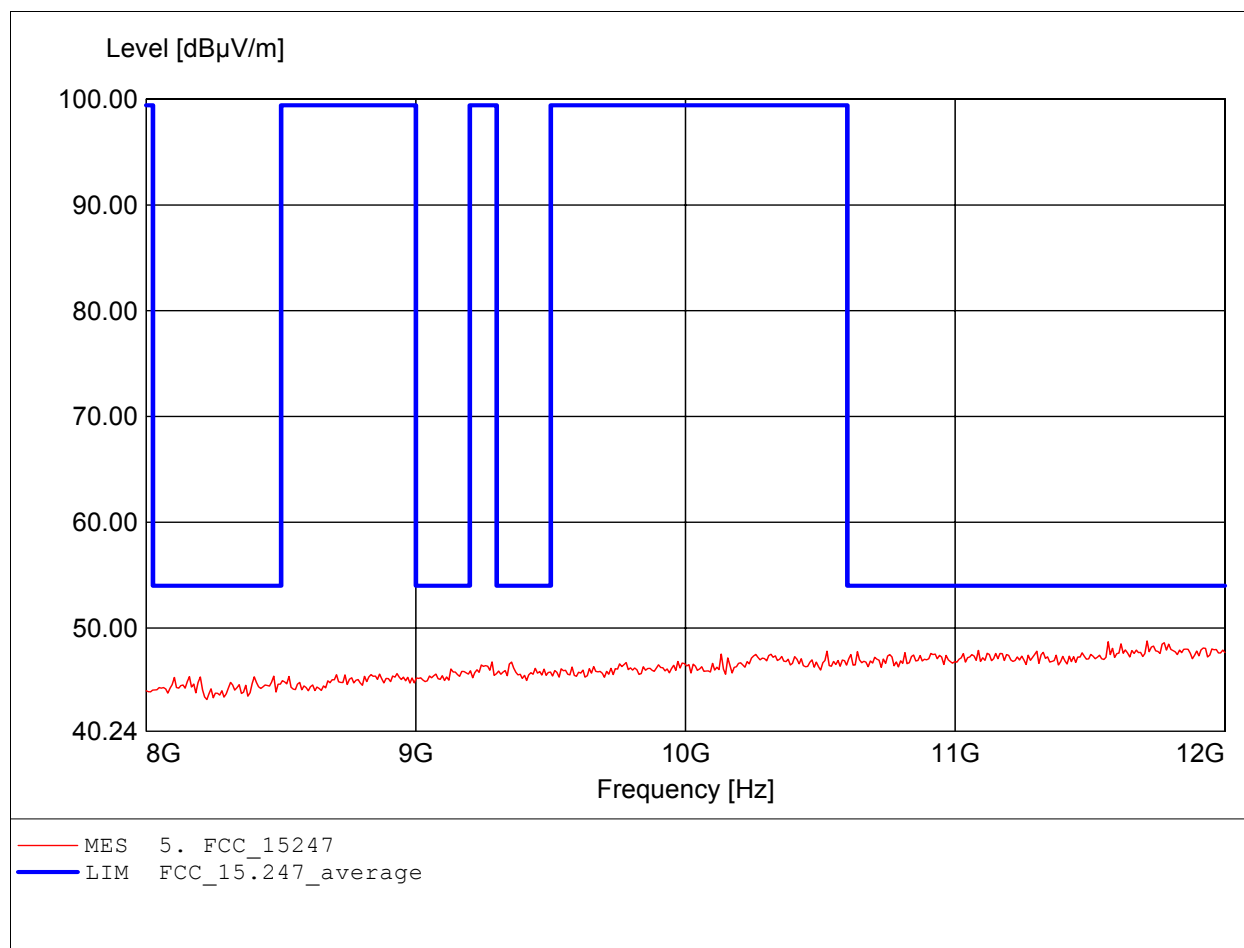
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.  
Freq: 7.968GHz, Emax: 53.91dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

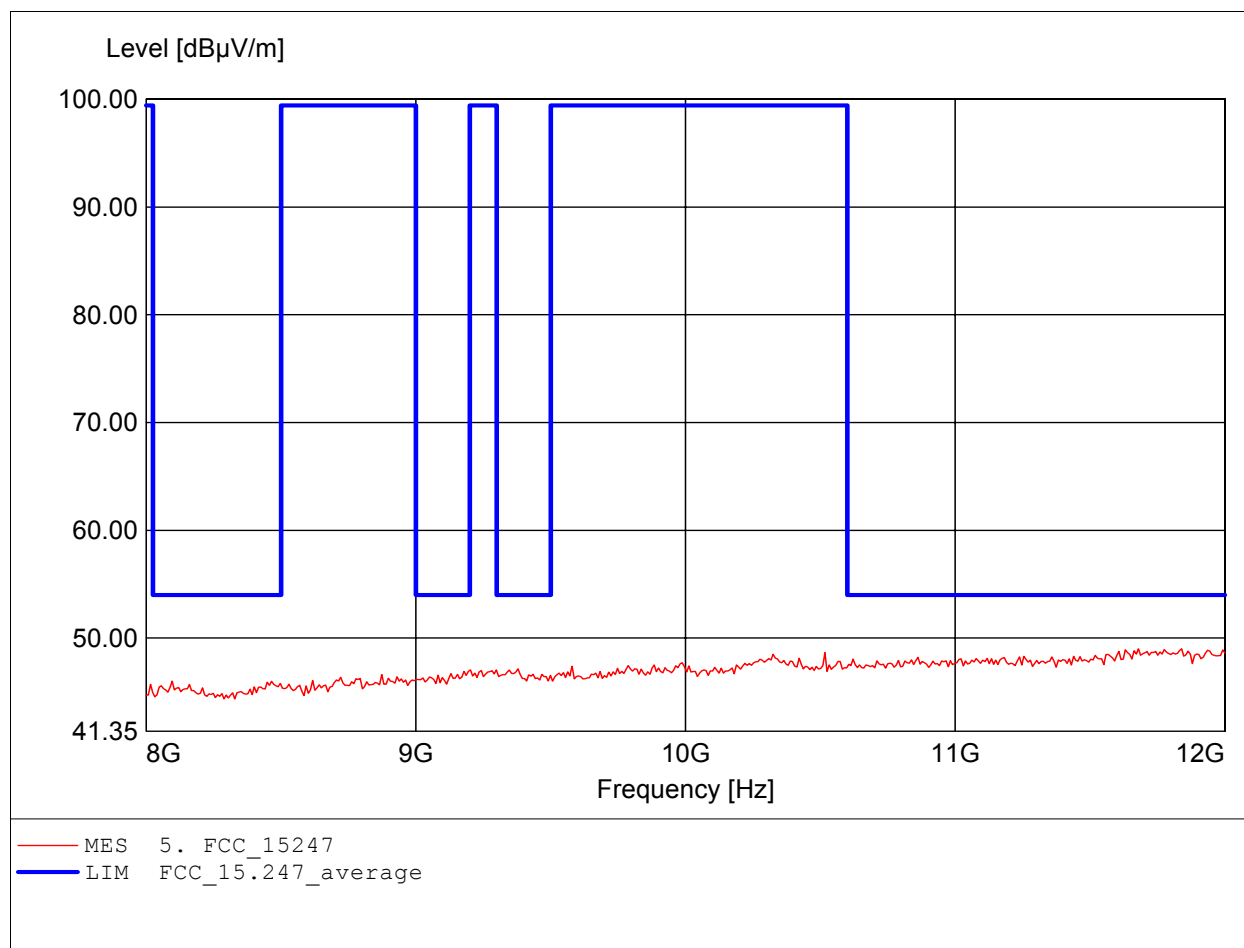
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.  
Freq: 11.711GHz, Emax: 48.77dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

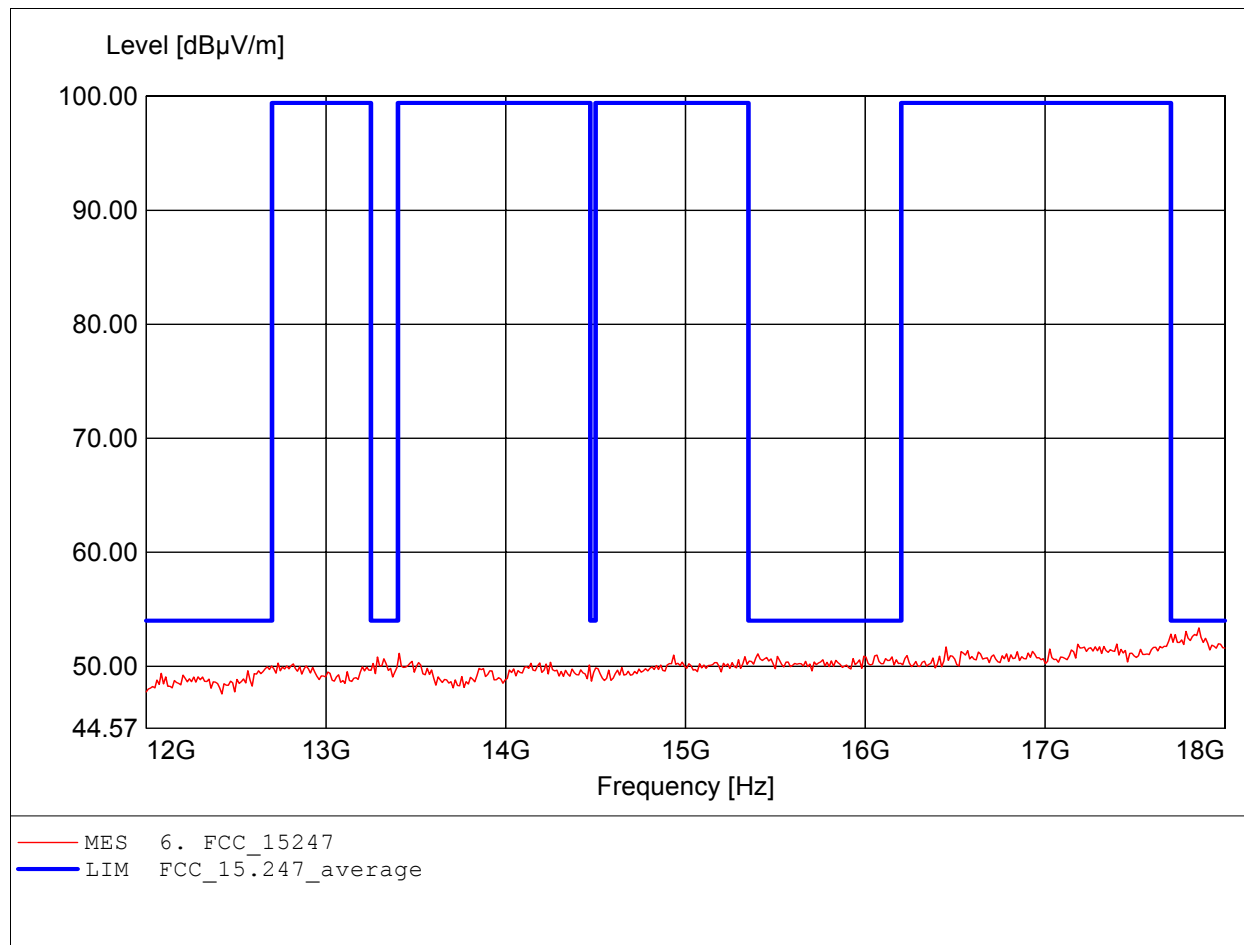
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.  
Freq: 11.679GHz, Emax: 49.01dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.  
Freq: 17.856GHz, Emax: 53.38dBμV/m, RBW: 1MHz

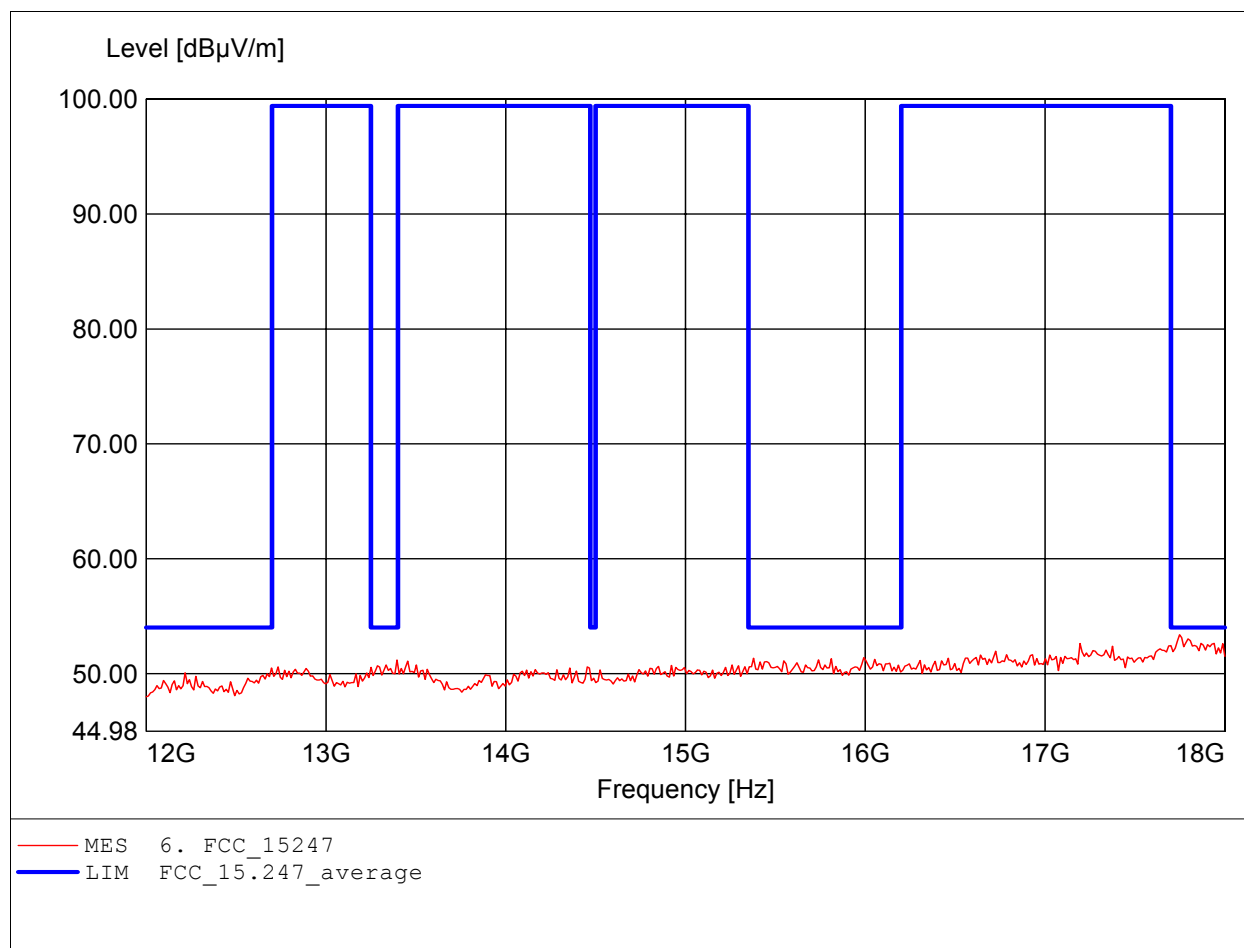




## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

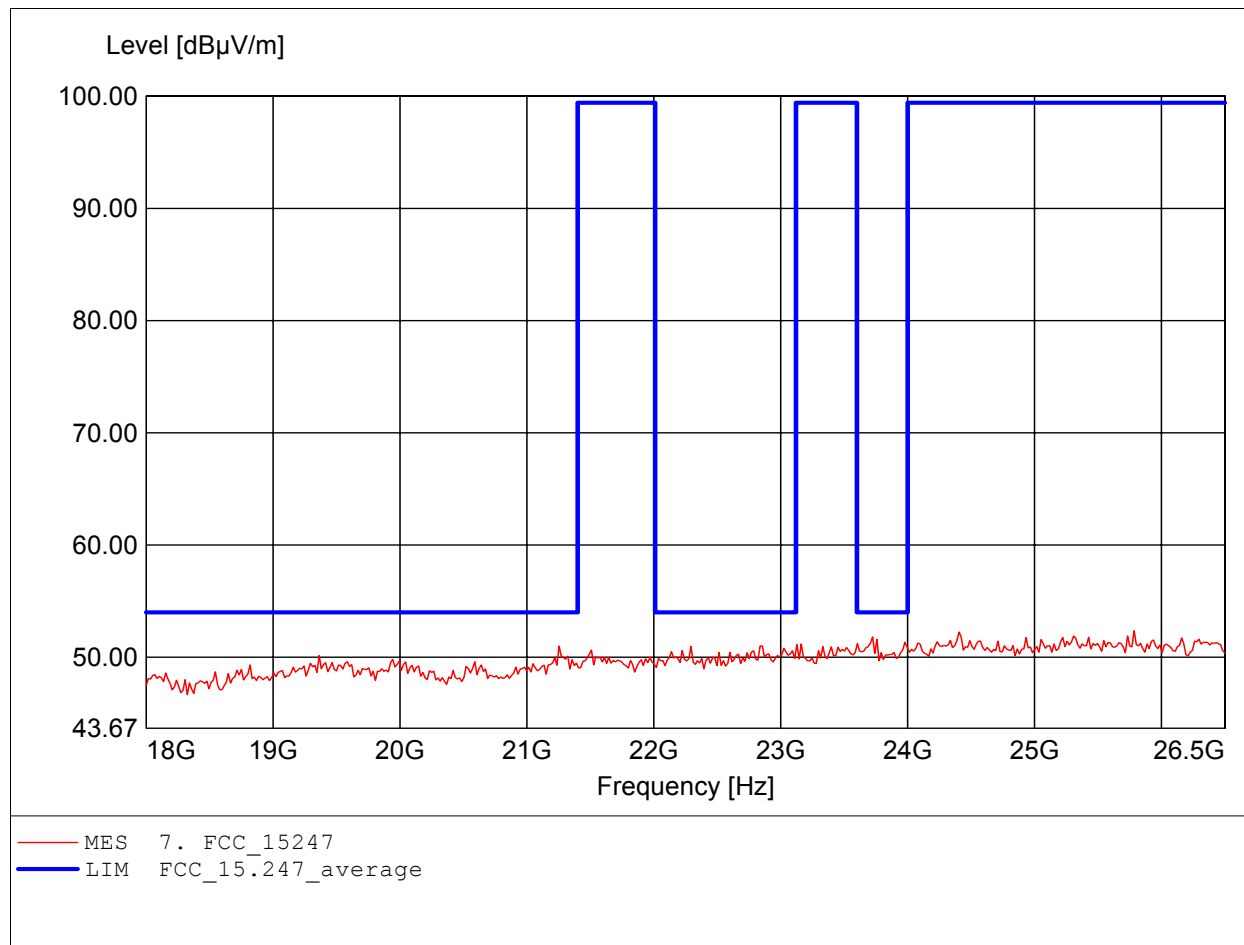
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.  
Freq: 17.747GHz, Emax: 53.39dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

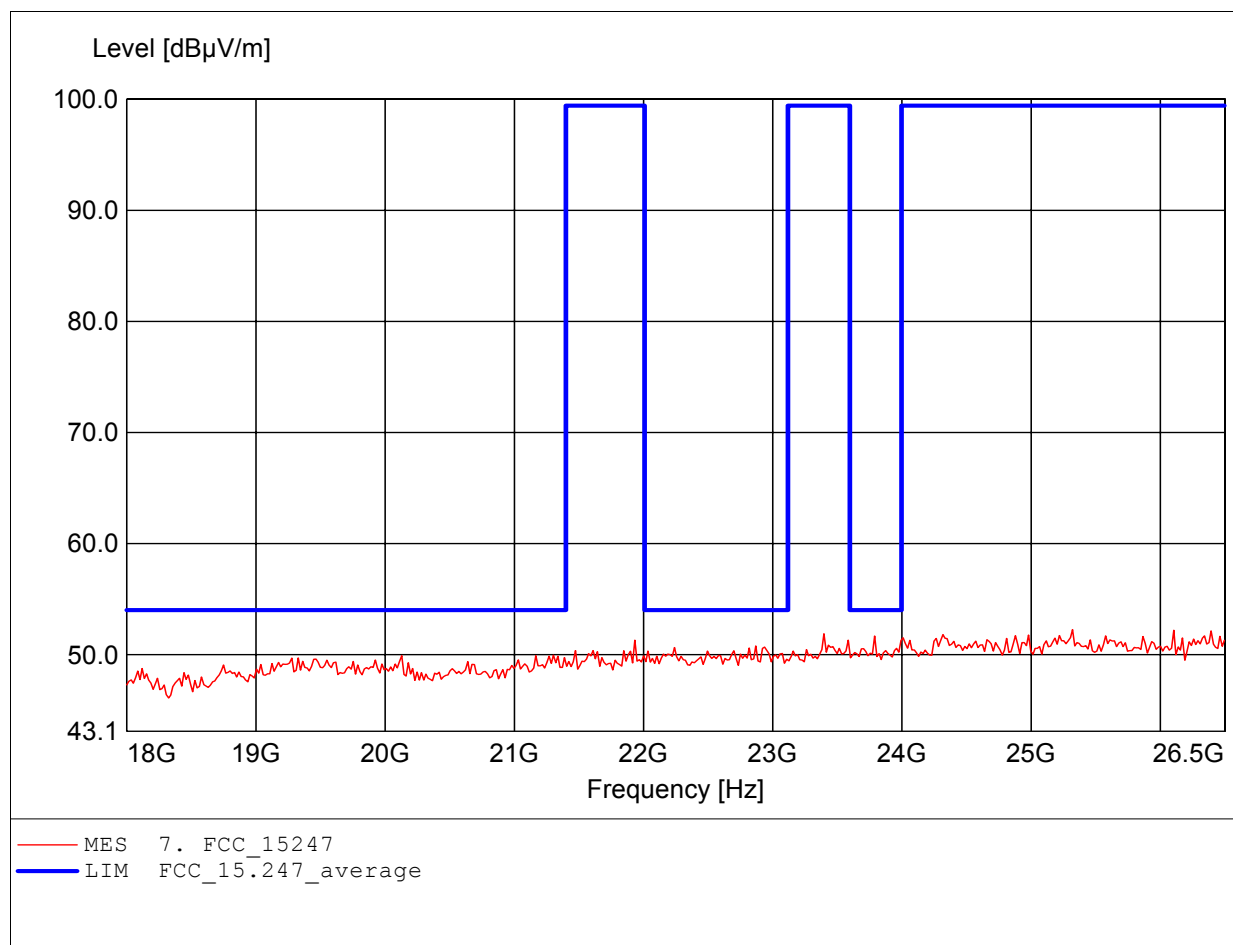
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Freq: 25.785GHz, Emax: 52.35dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Freq: 25.325GHz, Emax: 52.25dBμV/m, RBW: 1MHz





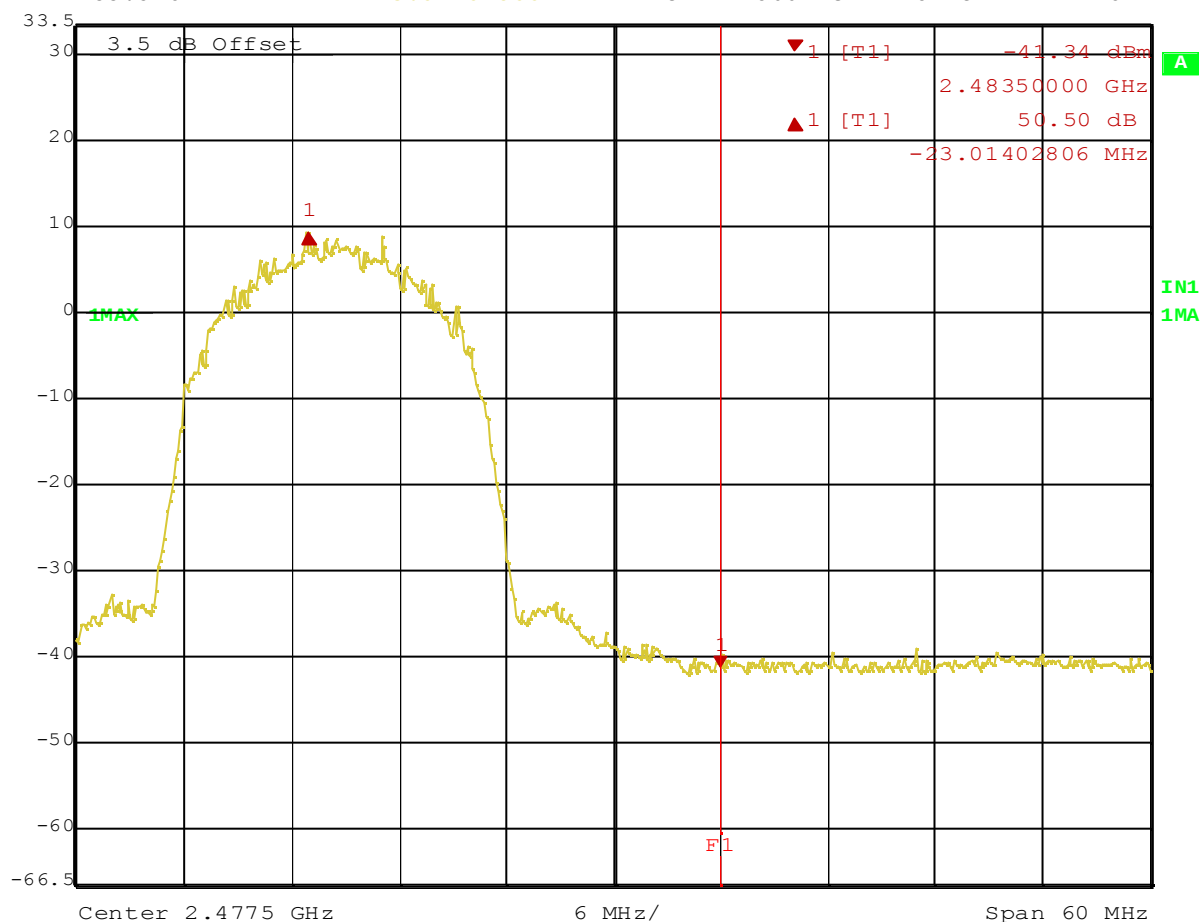
## **Appendix C**

### **Band Edge Measurement**





Delta 1 [T1] RBW 100 kHz RF Att 40 dB  
Ref Lvl 50.50 dB VBW 100 kHz  
33.5 dBm -23.01402806 MHz SWT 500 ms Unit dBm



Title: BANDWIDTH 802.11b CH11  
Comment A: ValuePoint Networks, Inc.  
Date: 3.JUN.2005 18:51:06

## **Appendix D**

### Minimum 6dB Bandwidth









## **Appendix E**

### Peak Power Spectral Density



Marker 1 [T2]

RBW 3 kHz RF Att 40 dB

Ref Lvl -4.06 dBm

VBW 100 kHz

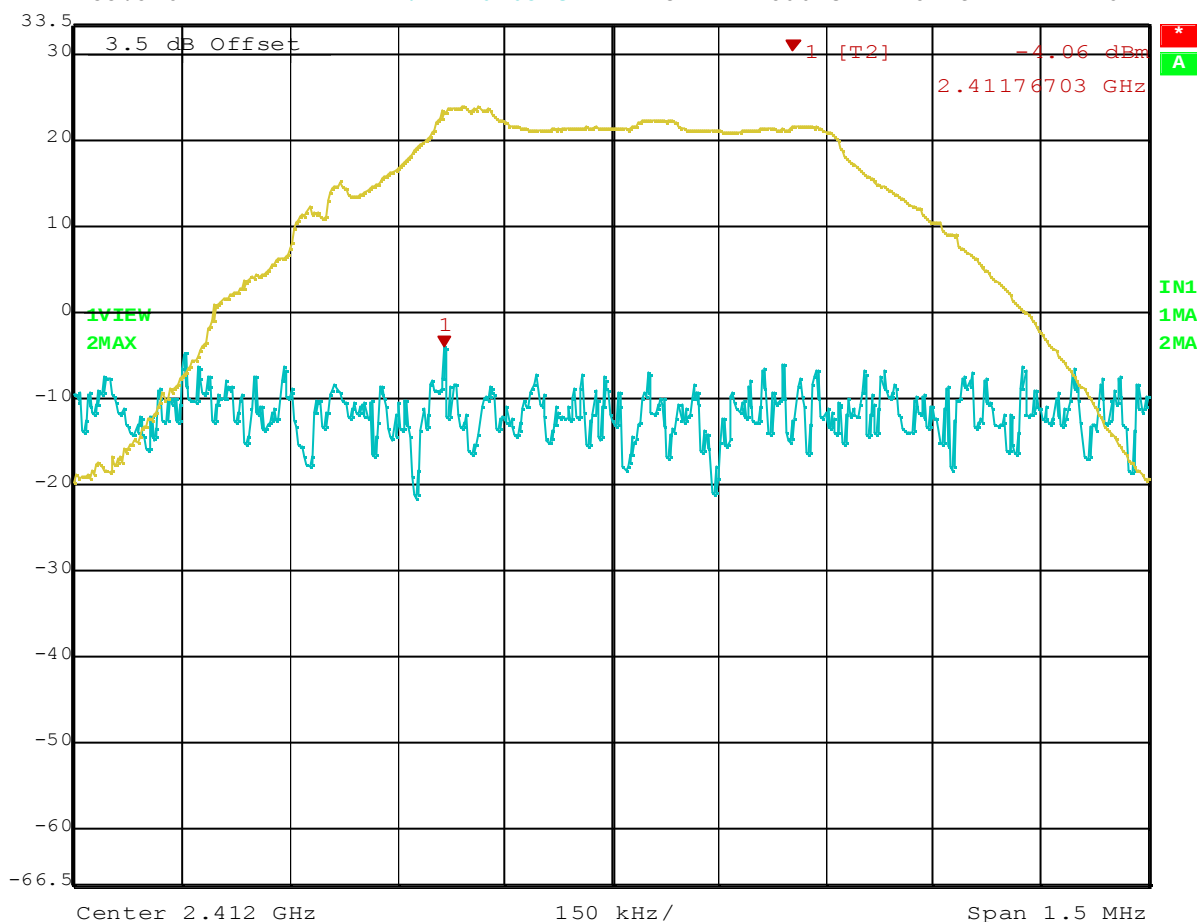
33.5 dBm

2.41176703 GHz

SWT 500 s

Unit

dBm



Title: POWER DENSITY 802.11b CH1

Comment A: ValuePoint Networks, Inc.

Date: 3.JUN.2005 18:44:27



Marker 1 [T2]

RBW 3 kHz RF Att 40 dB

Ref Lvl -4.13 dBm

VBW 100 kHz

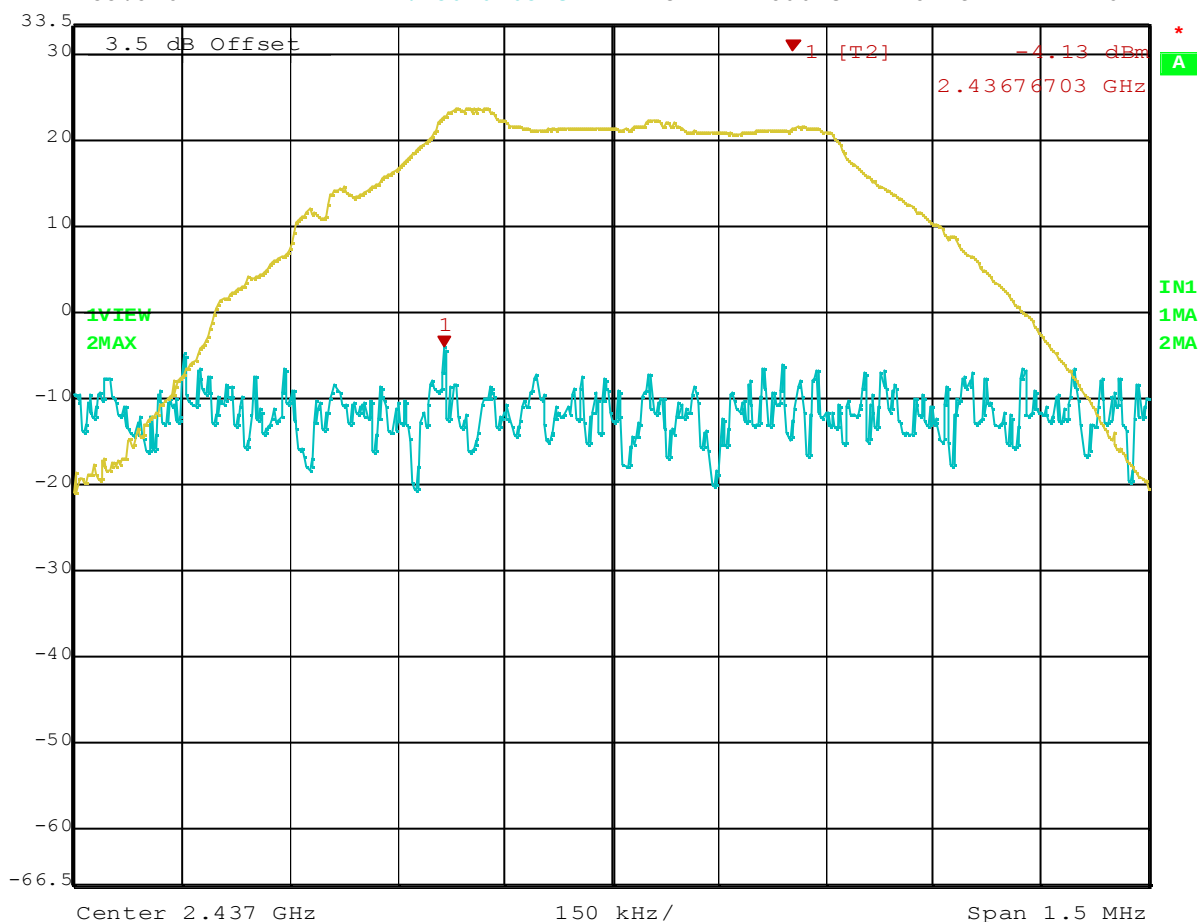
33.5 dBm

2.43676703 GHz

SWT 500 s

Unit

dBm



Title: POWER DENSITY 802.11b CH6

Comment A: ValuePoint Networks, Inc.

Date: 3.JUN.2005 17:56:03



Marker 1 [T2]

RBW 3 kHz RF Att 40 dB

Ref Lvl -4.72 dBm

VBW 100 kHz

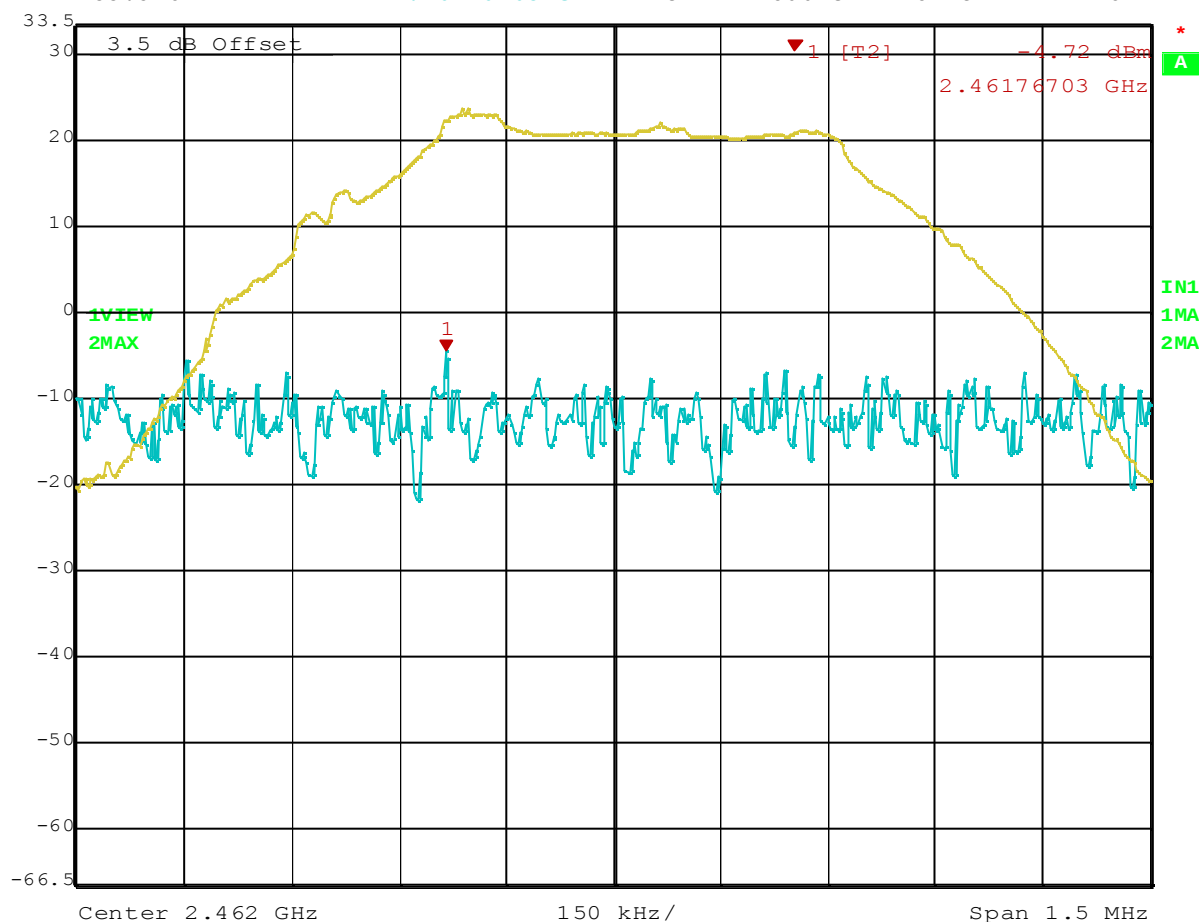
33.5 dBm

2.46176703 GHz

SWT 500 s

Unit

dBm



Center 2.462 GHz

150 kHz/

Span 1.5 MHz

Title: POWER DENSITY 802.11b CH11

Comment A: ValuePoint Networks, Inc.

Date: 3.JUN.2005 17:53:22

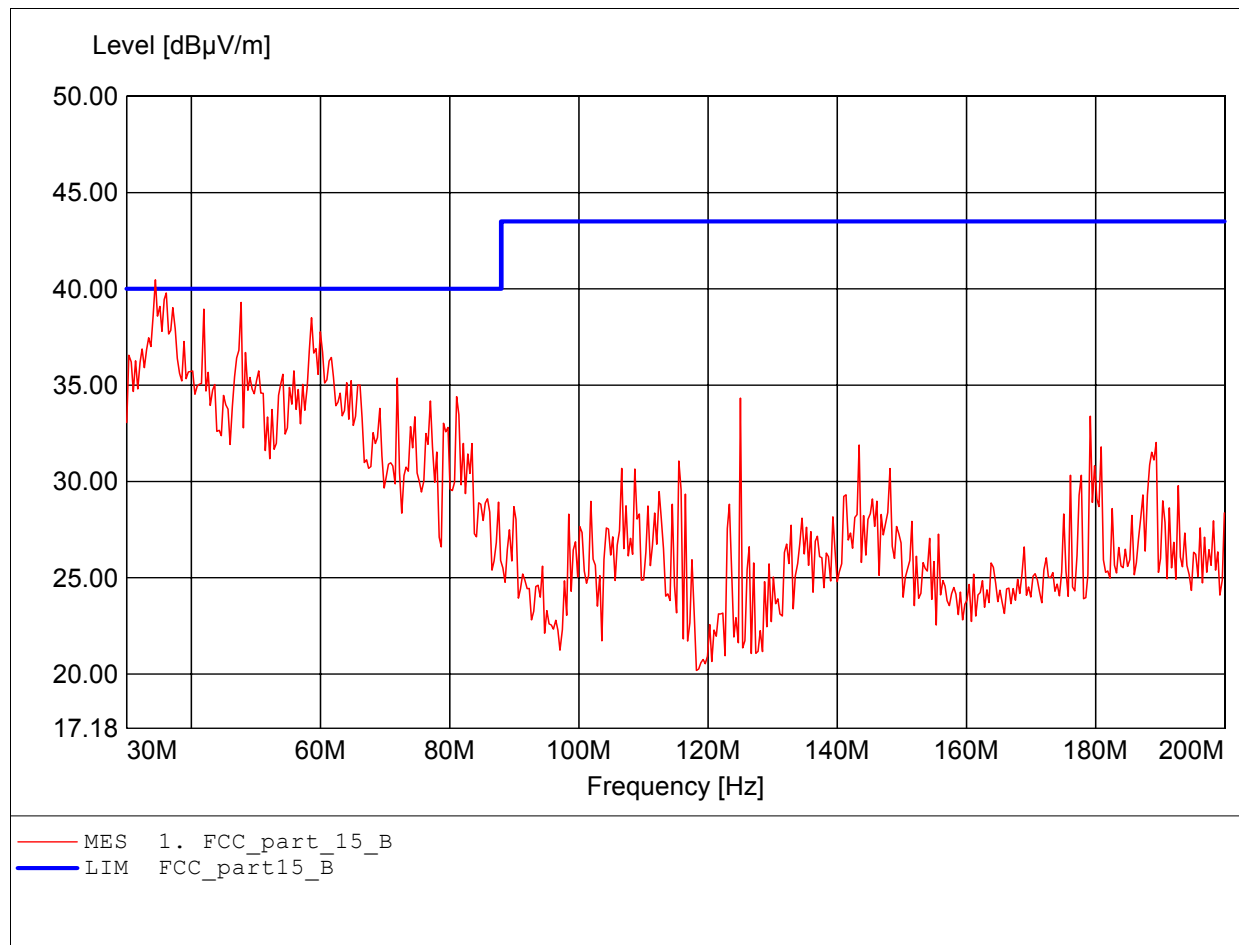
## **Appendix F**

### **Radiated Emissions from Receiver Section of Transceiver**

## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HK 116  
Freq:34.429MHz Emax:40.46dBµV/m RBW: 100 kHz



#### MEASUREMENT RESULT:

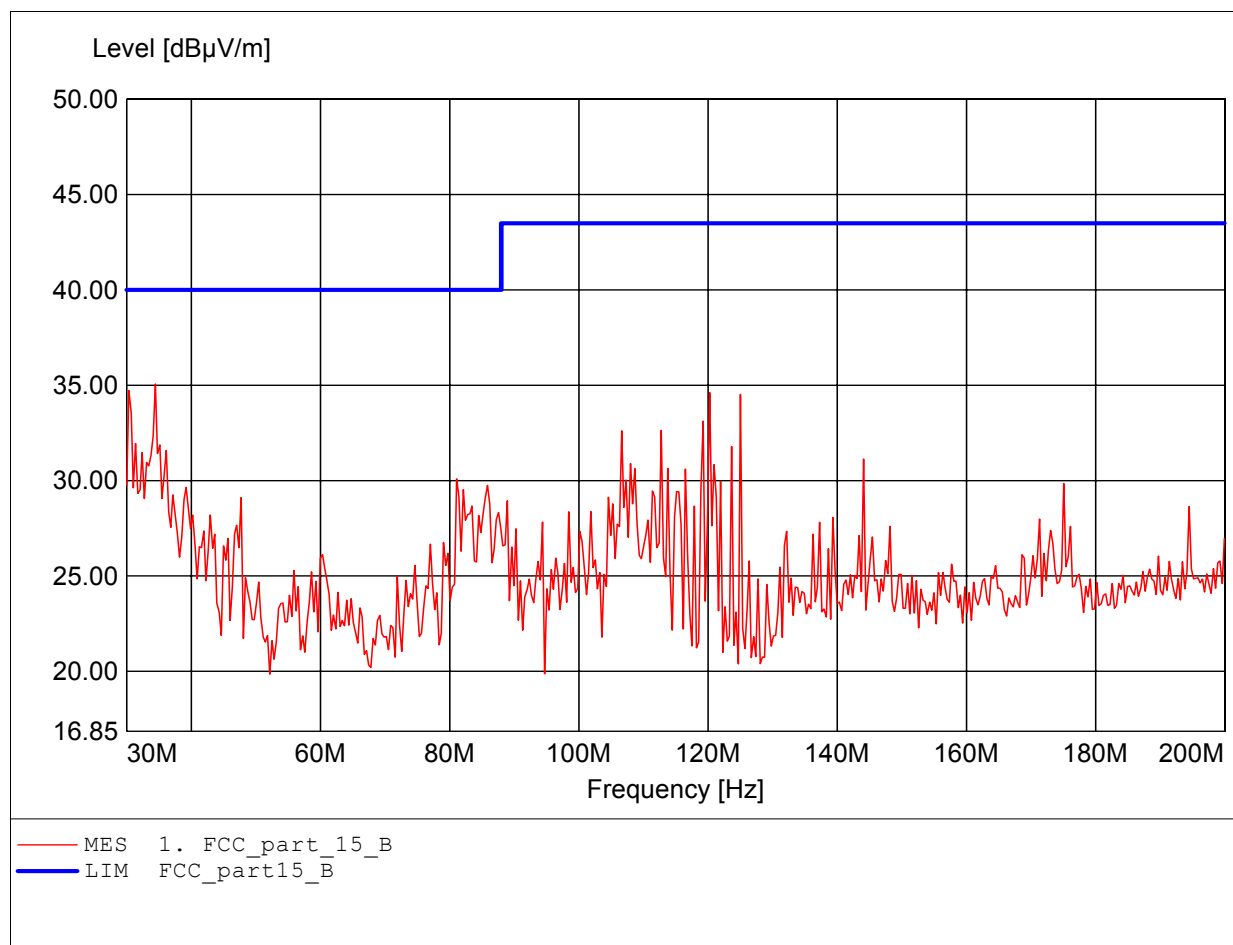
| Frequency<br>MHz | Level<br>dBµV | Limit<br>dBµV | Margin<br>dB | Detector |
|------------------|---------------|---------------|--------------|----------|
| 34.428858        | 35.89         | 40.0          | 4.11         | QP       |



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

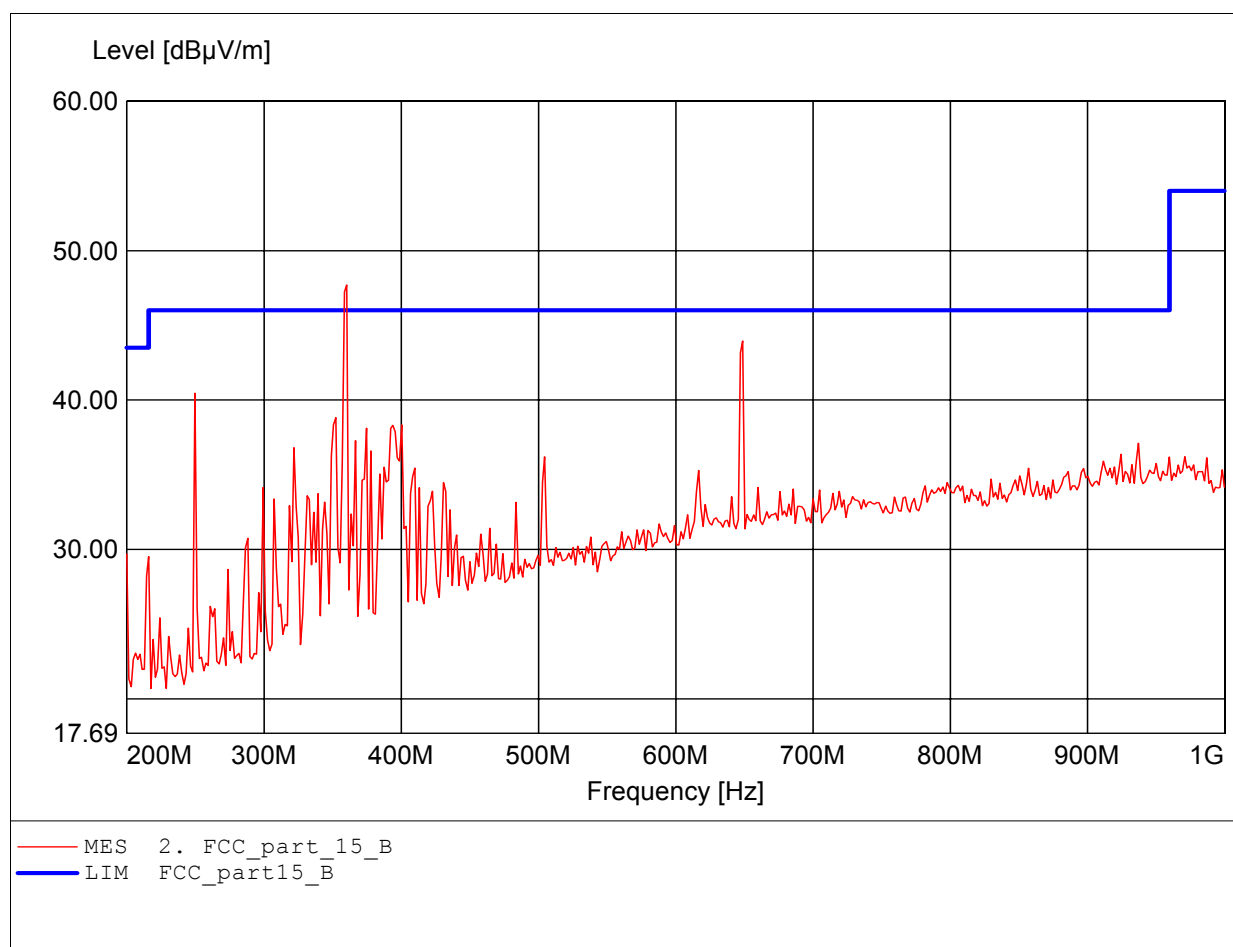
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HK 116  
Freq:34.429MHz Emax:35.07dBμV/m RBW: 100 kHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.  
Freq:360.321MHz Emax:47.70dBµV/m RBW: 100 kHz



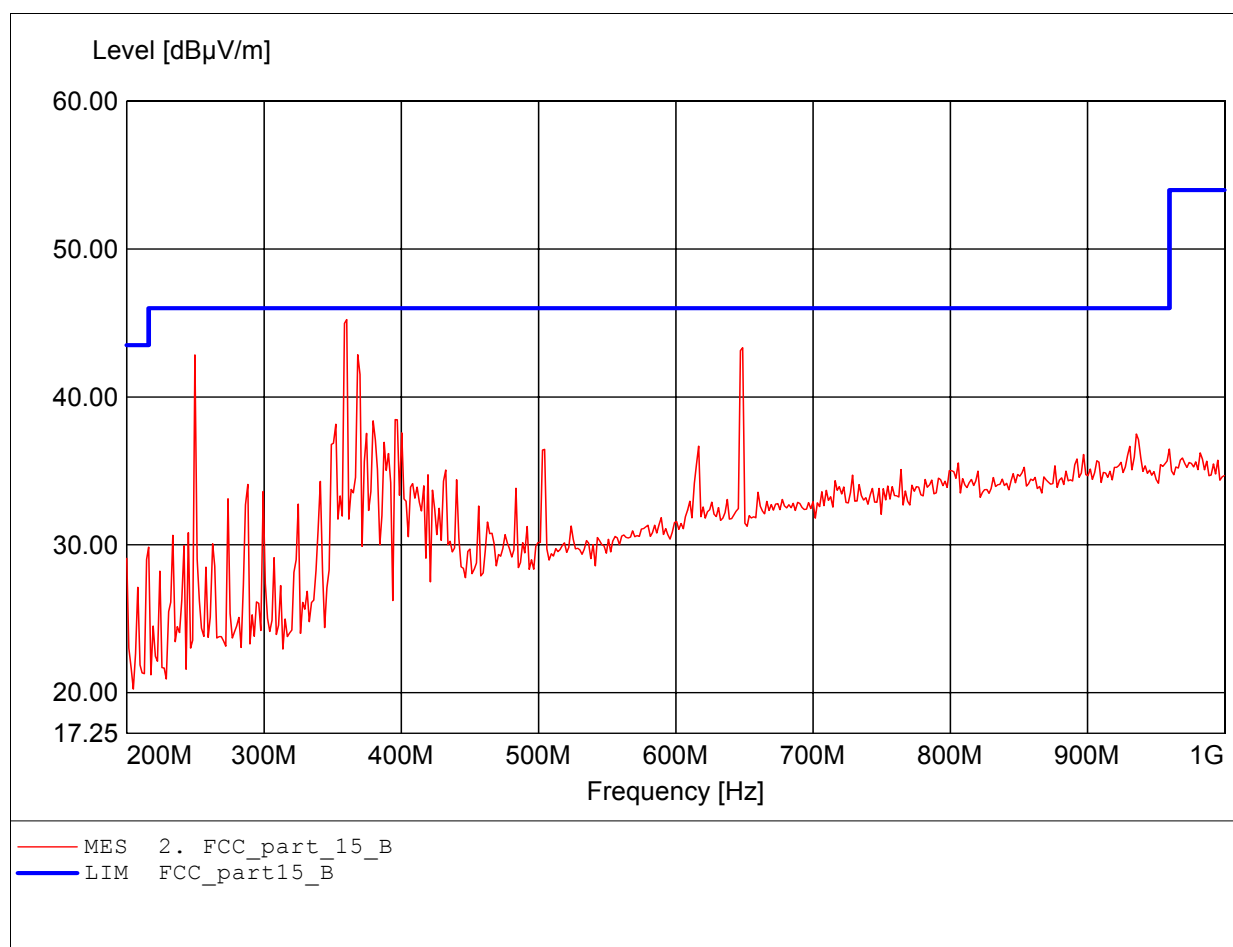
#### MEASUREMENT RESULT:

| Frequency<br>MHz | Level<br>dBµV | Limit<br>dBµV | Margin<br>dB | Detector |
|------------------|---------------|---------------|--------------|----------|
| 360.320641       | 45.51         | 46.0          | 0.49         | QP       |

## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

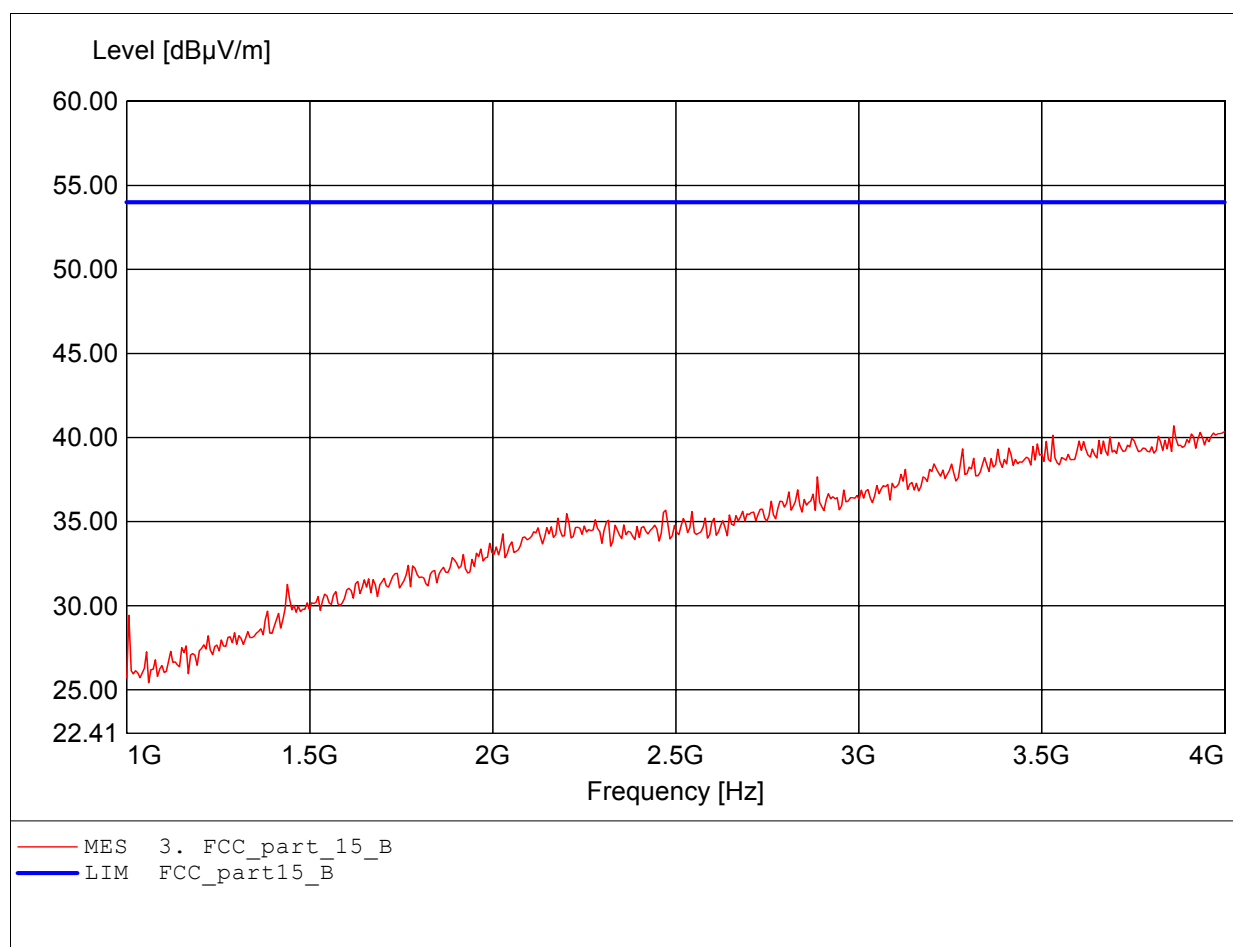
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.  
Freq:360.321MHz Emax:45.24dBuV/m RBW: 100 kHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

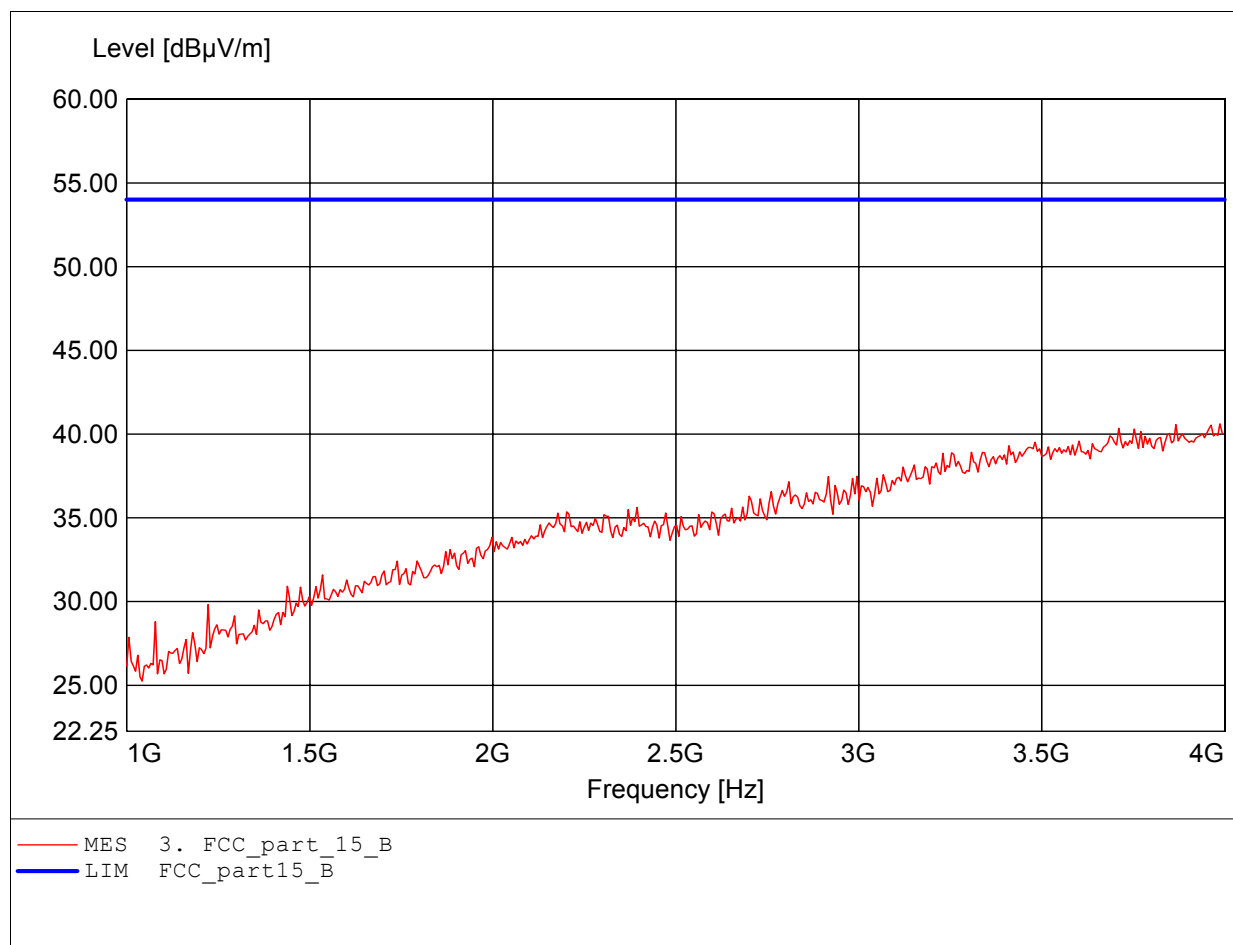
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:3.862GHz Emax:40.70dBμV/m RBW: 1 MHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

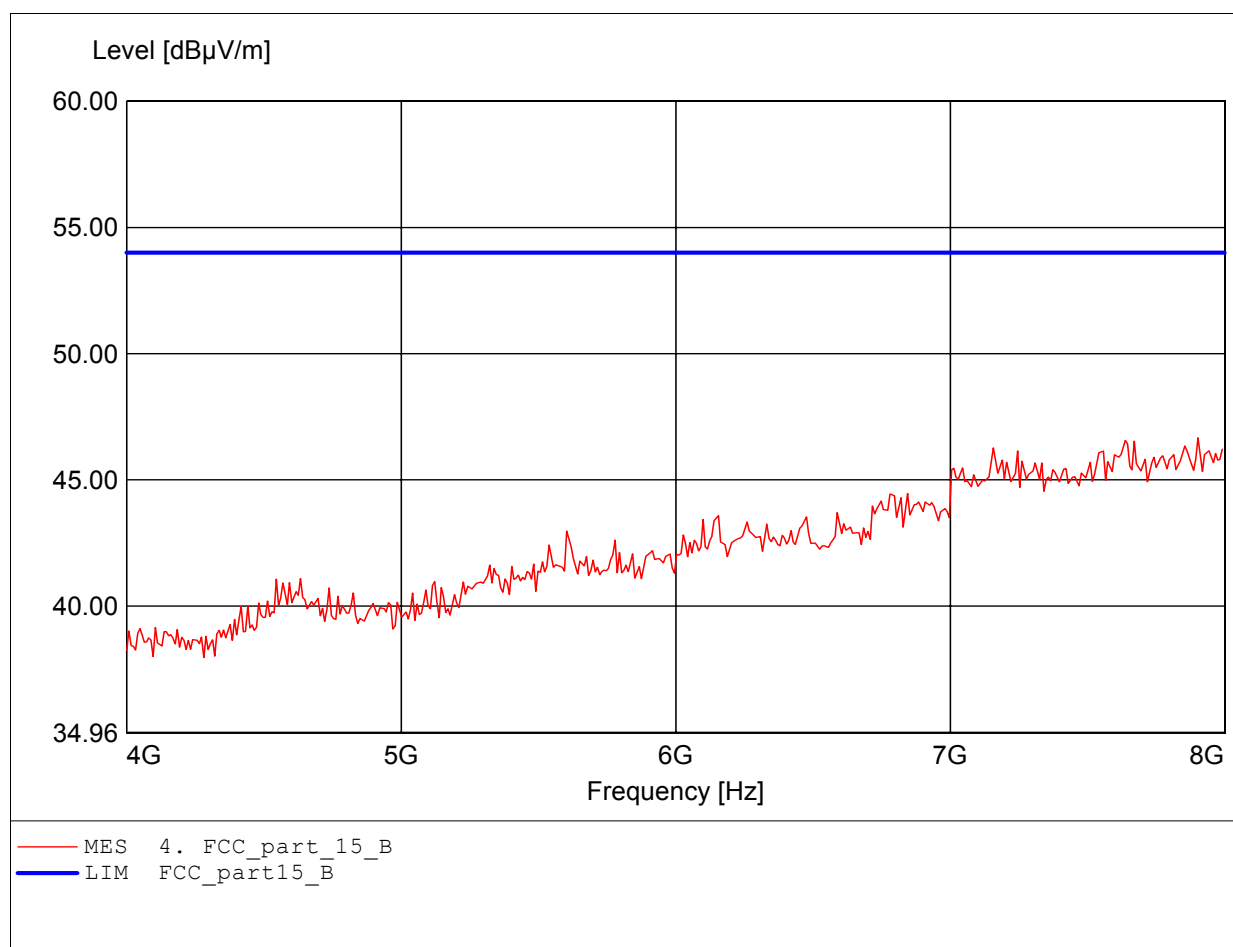
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:3.988GHz Emax:40.62dBμV/m RBW: 1 MHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

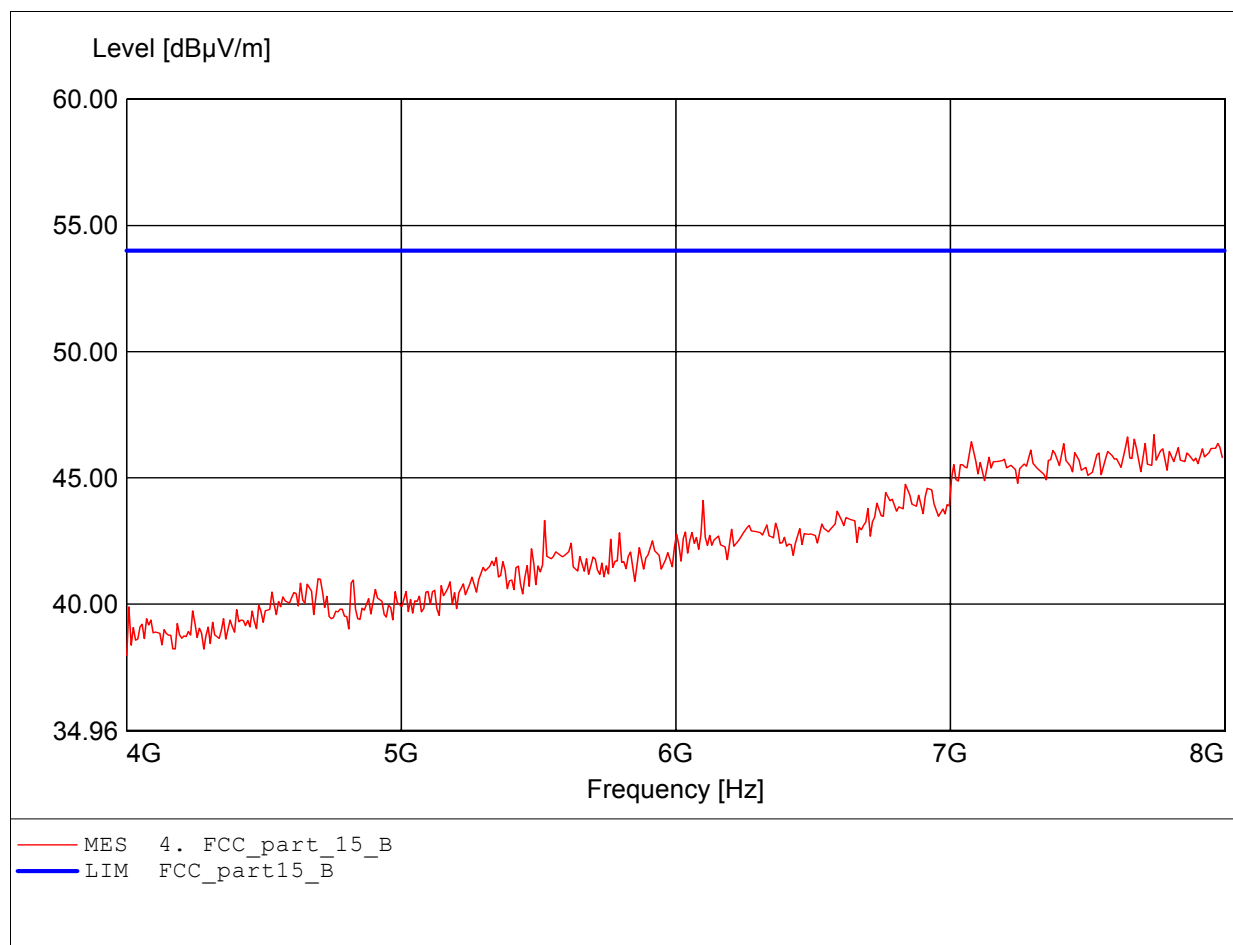
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:7.904GHz Emax:46.67dBμV/m RBW: 1 MHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

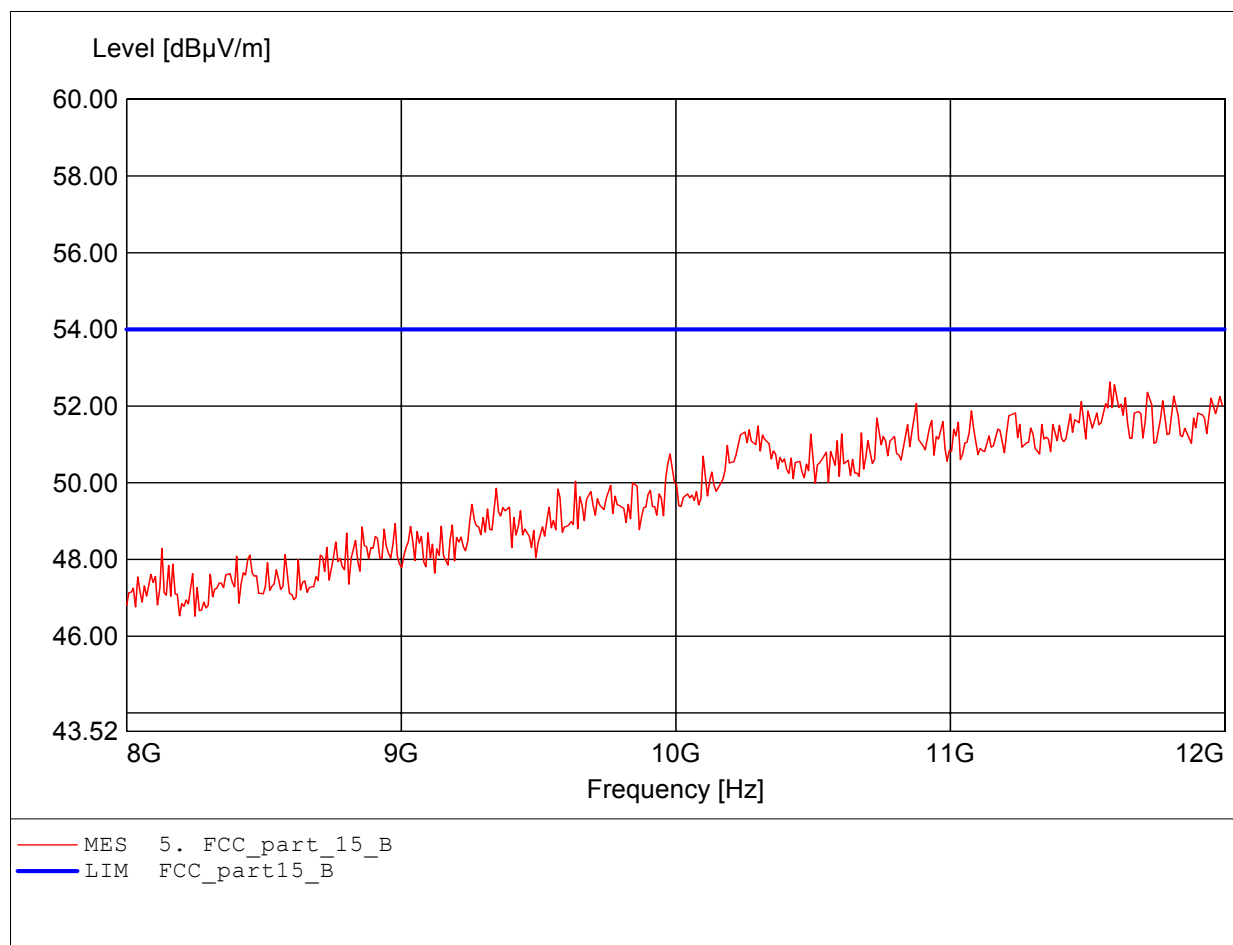
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:7.743GHz Emax:46.71dBμV/m RBW: 1 MHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:11.583GHz Emax:52.63dBμV/m RBW: 1 MHz

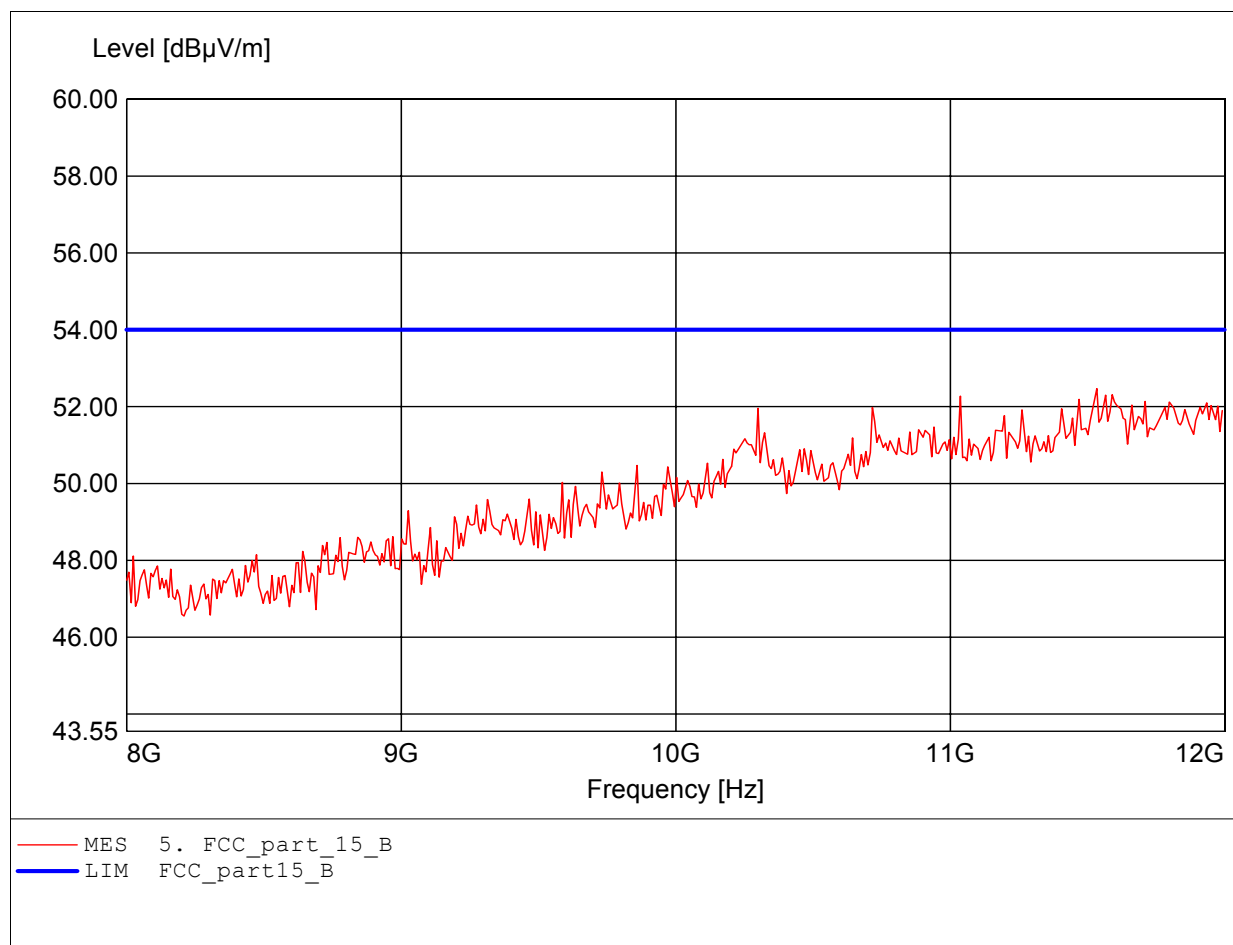




## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

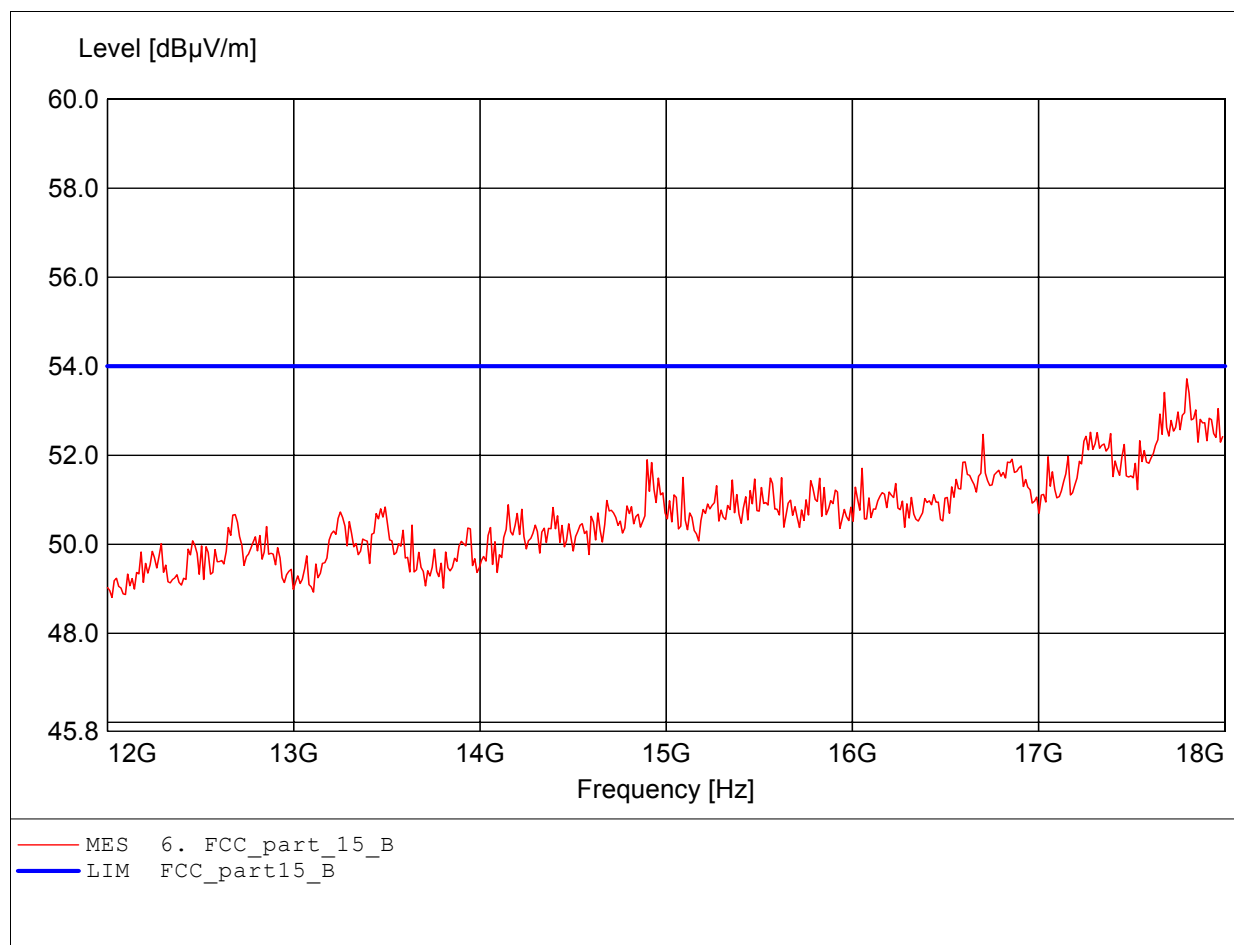
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:11.535GHz Emax:52.47dBμV/m RBW: 1 MHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

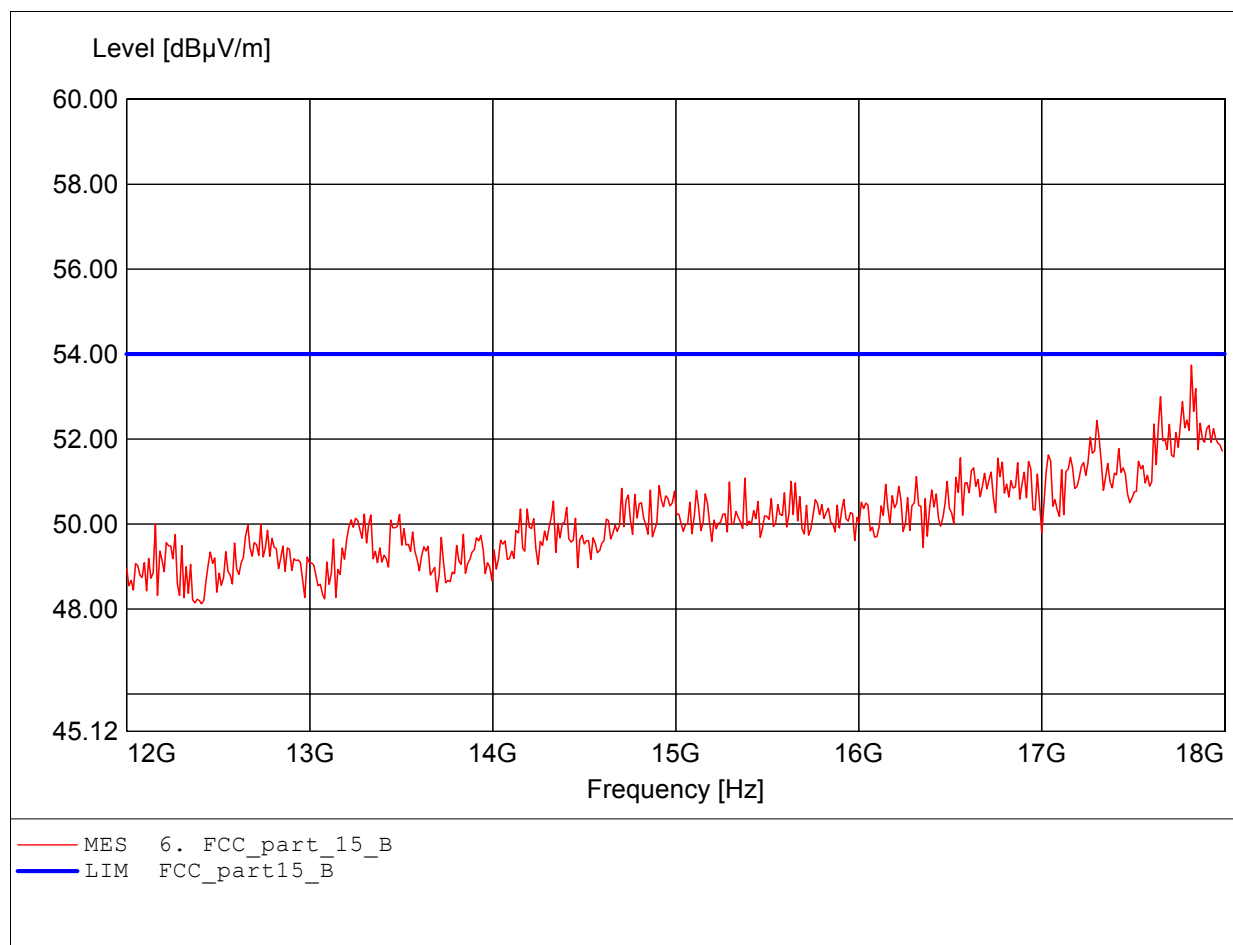
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:17.796GHz Emax:53.72dBμV/m RBW: 1 MHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

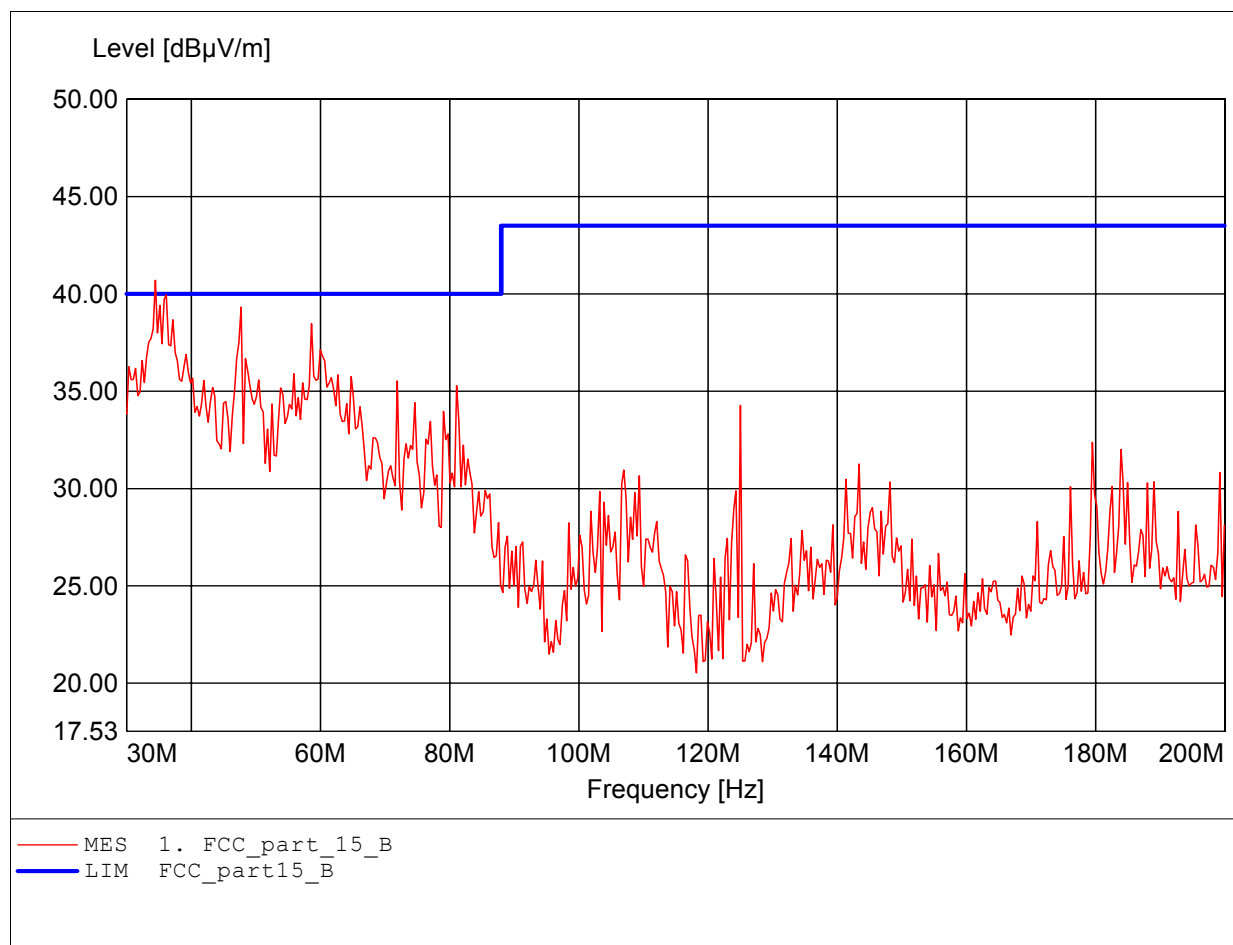
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH1  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:17.820GHz Emax:53.74dBμV/m RBW: 1 MHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HK 116  
Freq:34.429MHz Emax:40.70dBµV/m RBW: 100 kHz



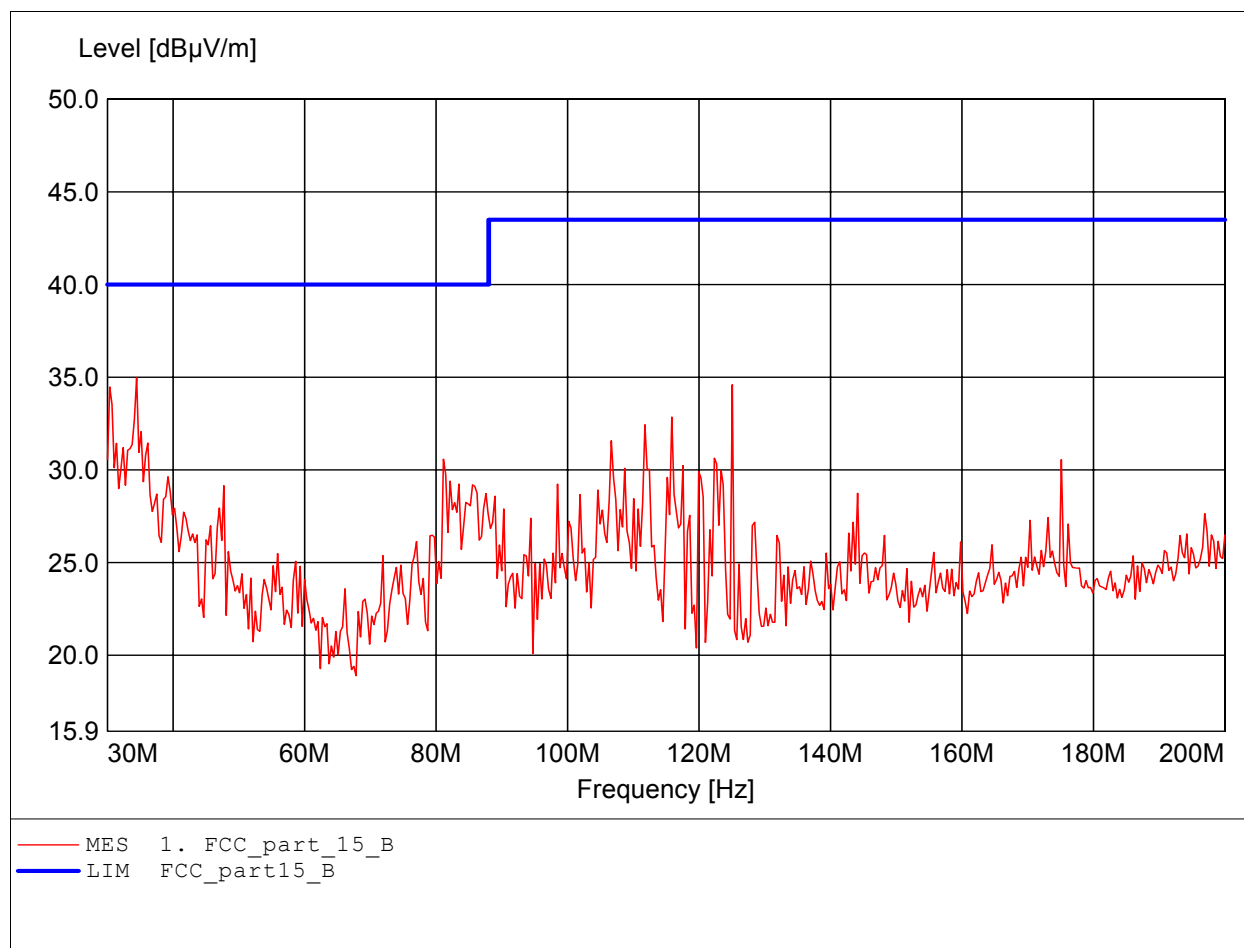
#### MEASUREMENT RESULT:

| Frequency<br>MHz | Level<br>dBµV | Limit<br>dBµV | Margin<br>dB | Detector |
|------------------|---------------|---------------|--------------|----------|
| 34.428858        | 36.16         | 40.0          | 3.84         | QP       |

## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

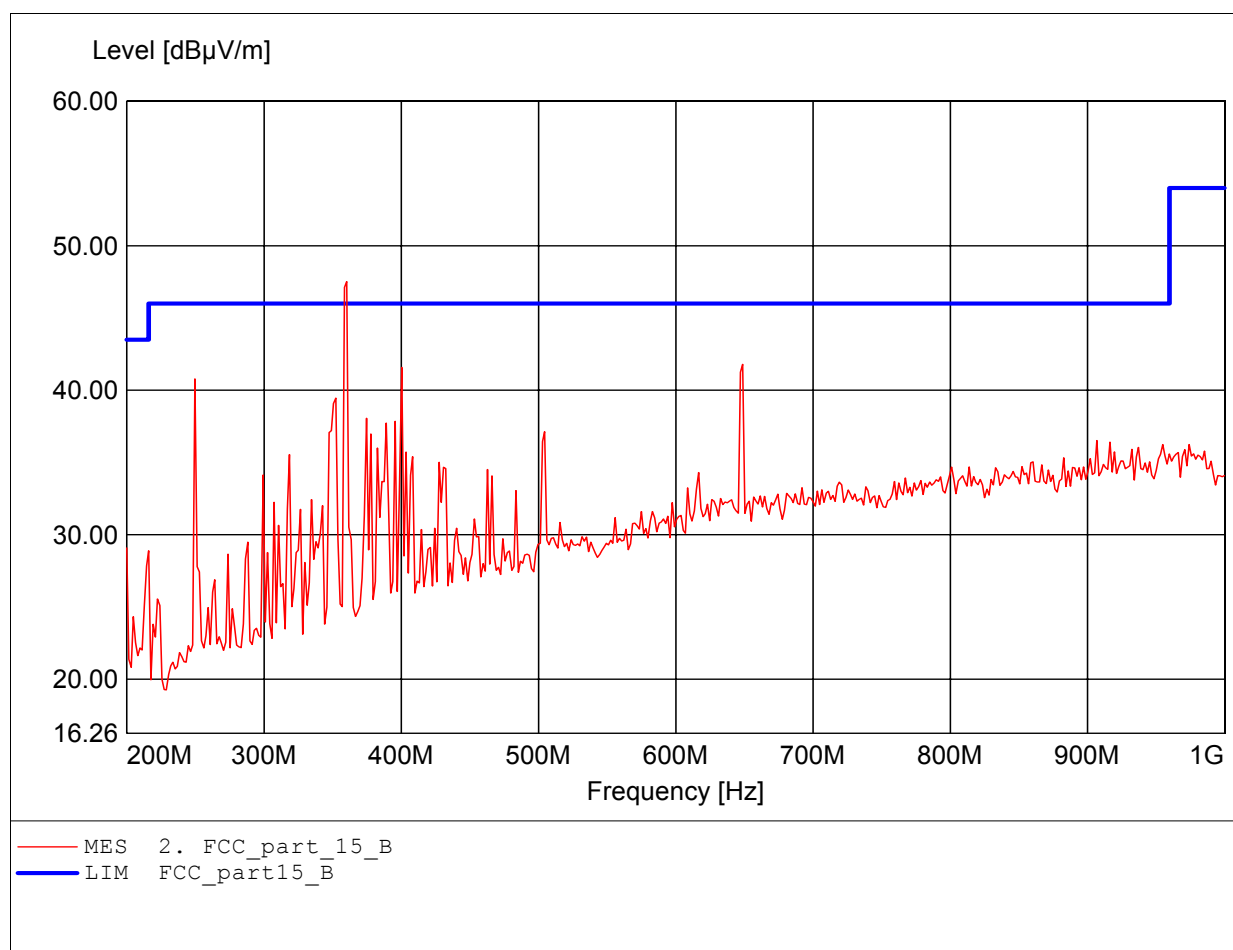
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HK 116  
Freq:34.429MHz Emax:34.99dBμV/m RBW: 100 kHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.  
Freq:360.321MHz Emax:47.52dBμV/m RBW: 100 kHz



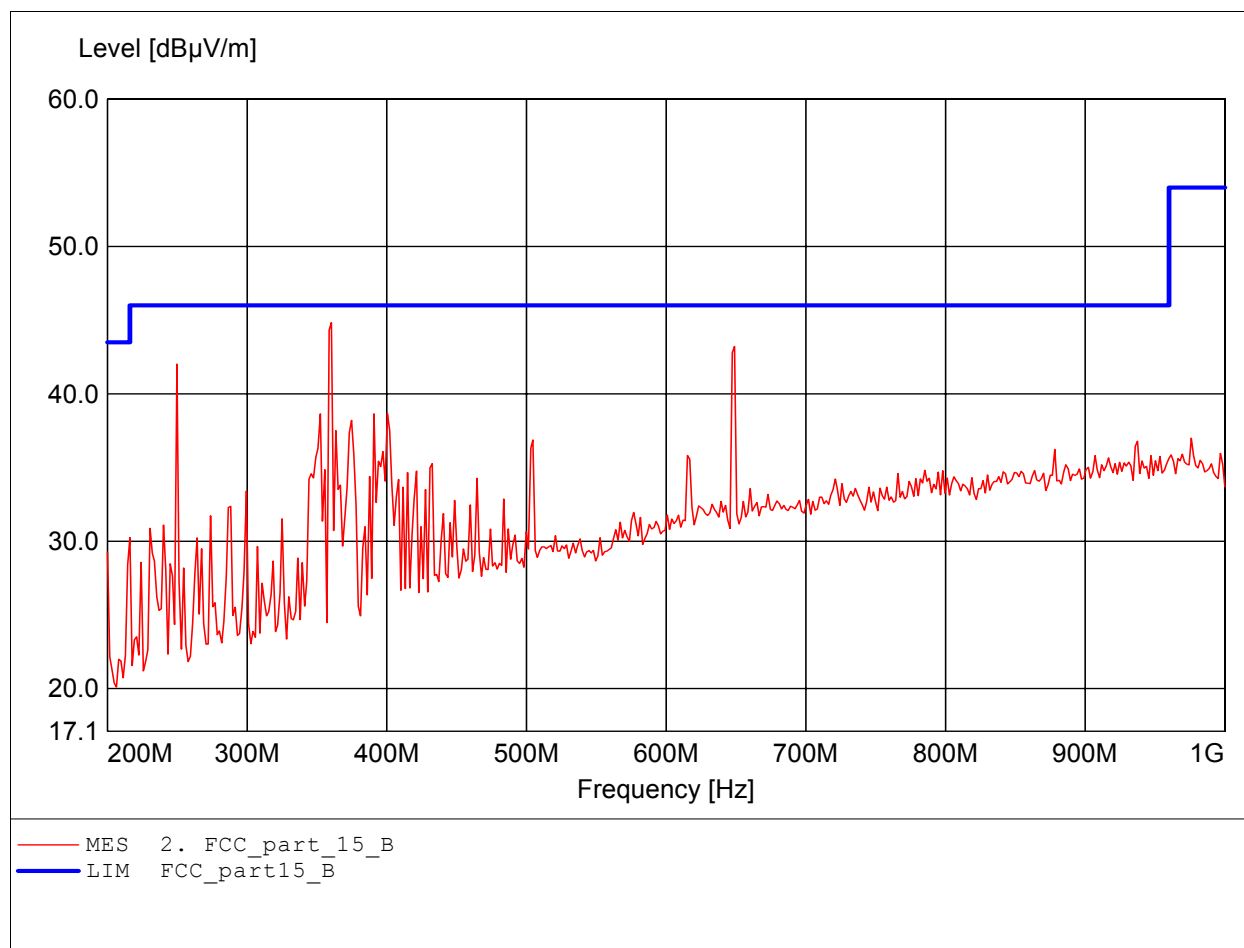
#### MEASUREMENT RESULT:

| Frequency<br>MHz | Level<br>dBμV | Limit<br>dBμV | Margin<br>dB | Detector |
|------------------|---------------|---------------|--------------|----------|
| 360.320641       | 45.15         | 46.0          | 0.85         | QP       |

## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

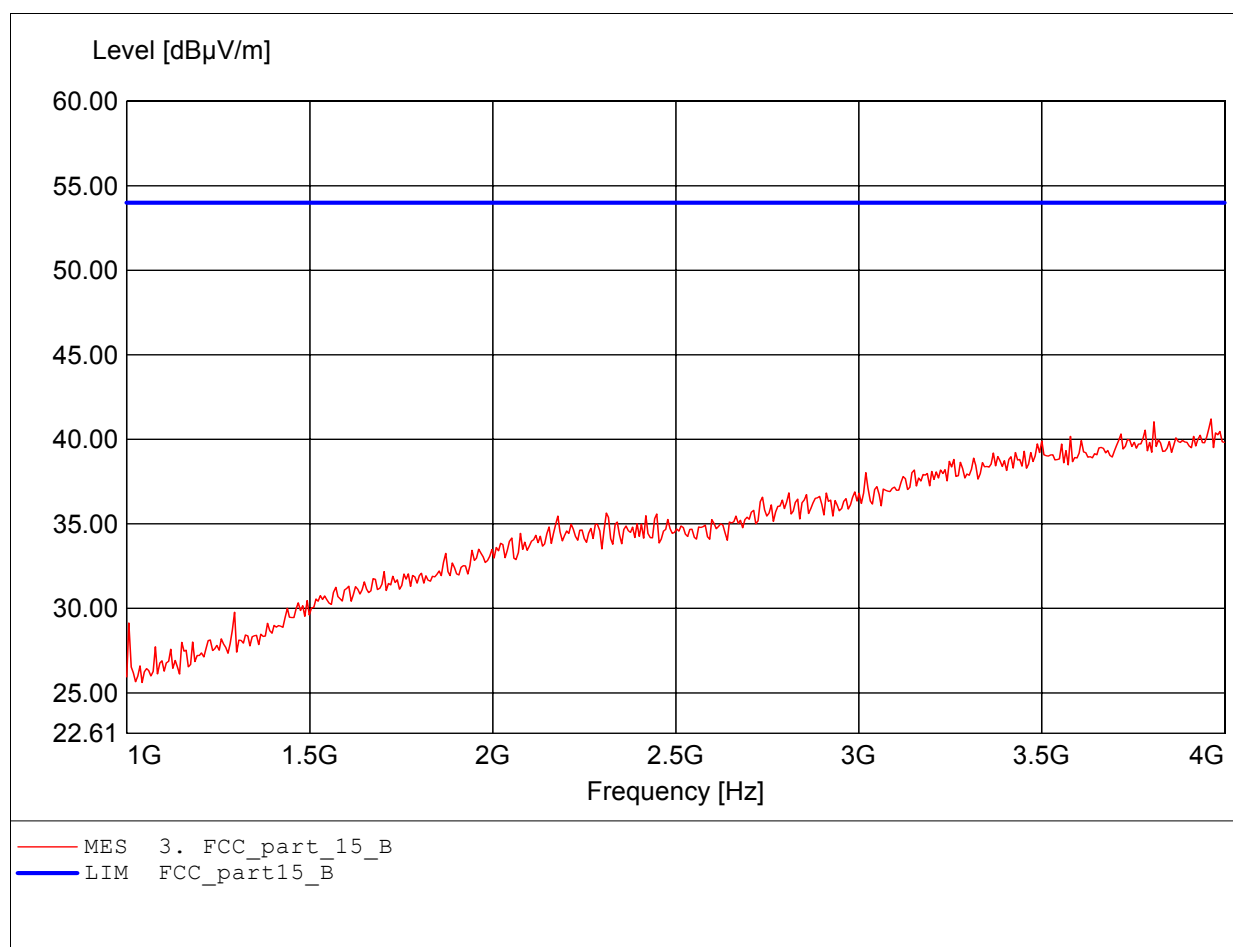
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.  
Freq:360.321MHz Emax:44.84dBuV/m RBW: 100 Hz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:3.964GHz Emax:41.20dBμV/m RBW: 1 MHz

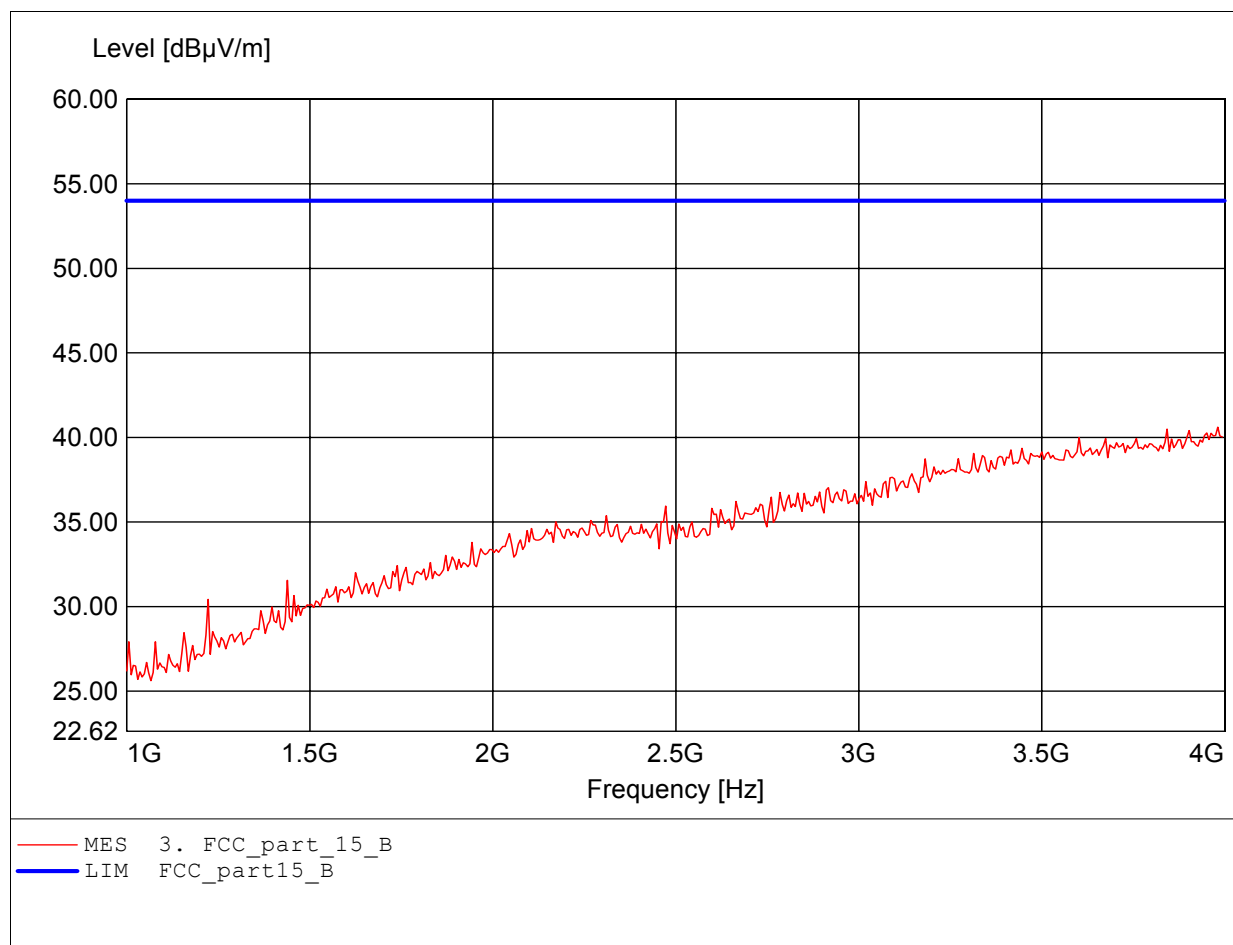




## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

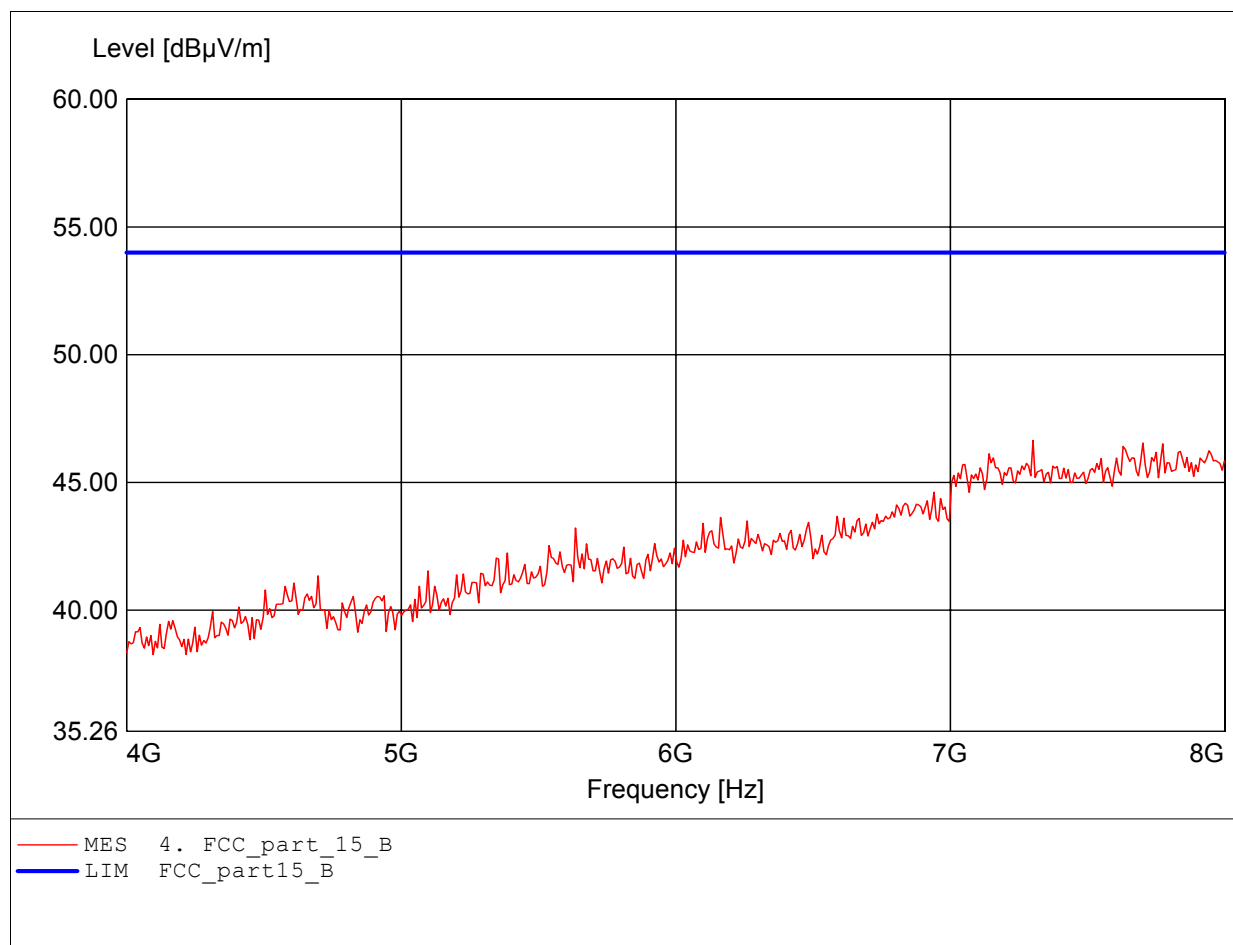
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:3.982GHz Emax:40.60dBμV/m RBW: 1 MHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

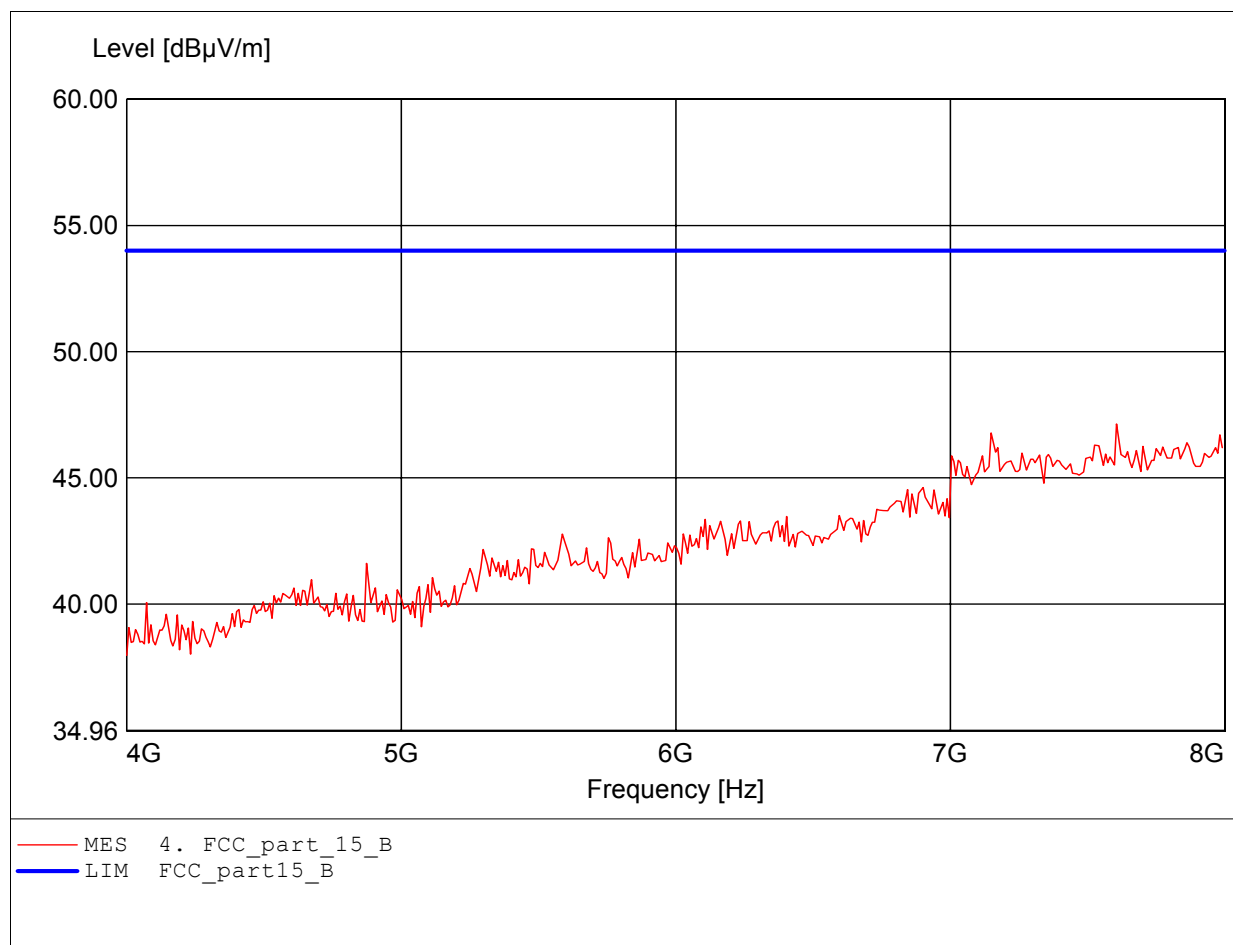
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:7.303GHz Emax:46.65dBμV/m RBW: 1 MHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

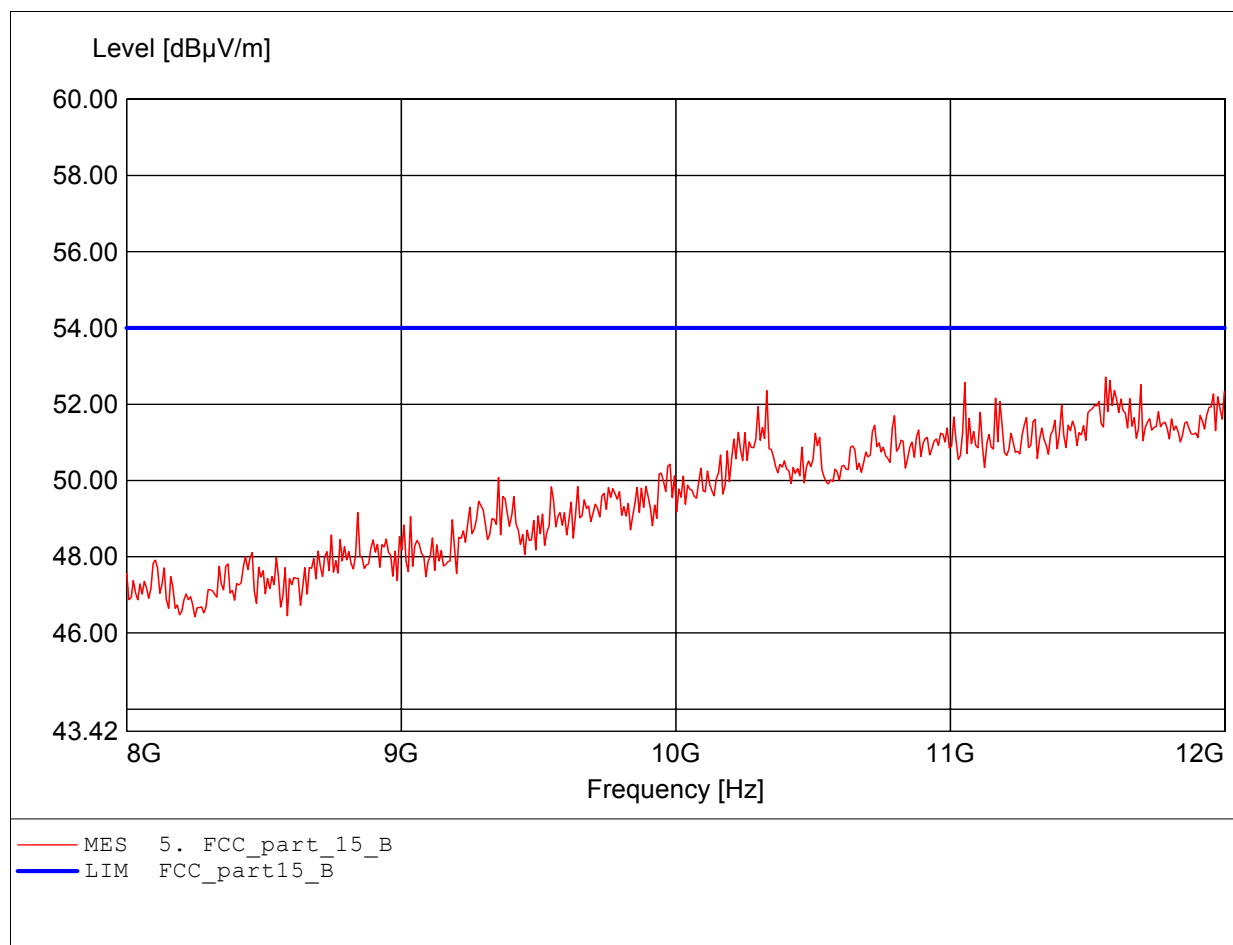
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:7.607GHz Emax:47.13dBμV/m RBW: 1 MHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

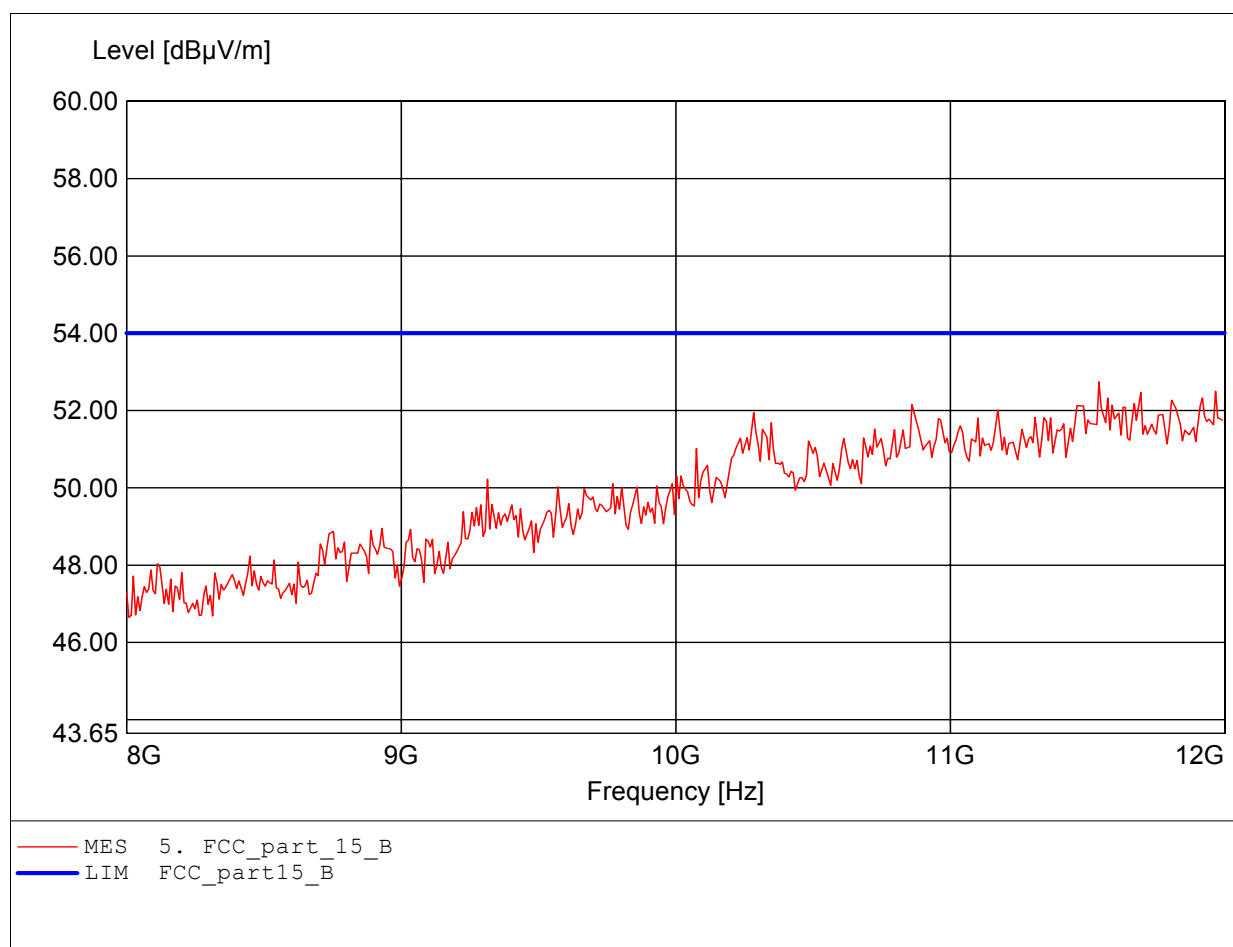
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:11.567GHz Emax:52.71dBμV/m RBW: 1 MHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

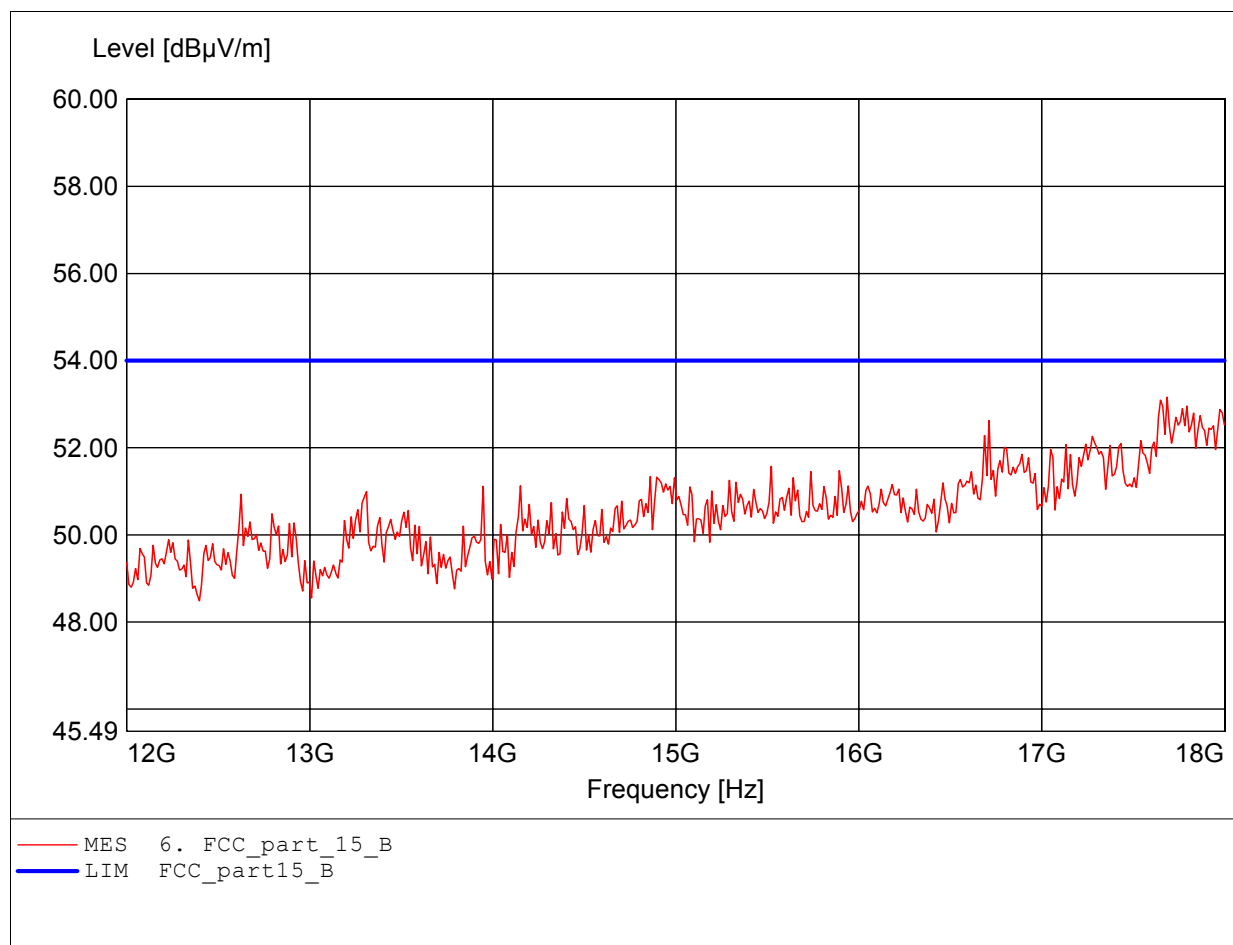
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:11.543GHz Emax:52.74dBμV/m RBW: 1 MHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

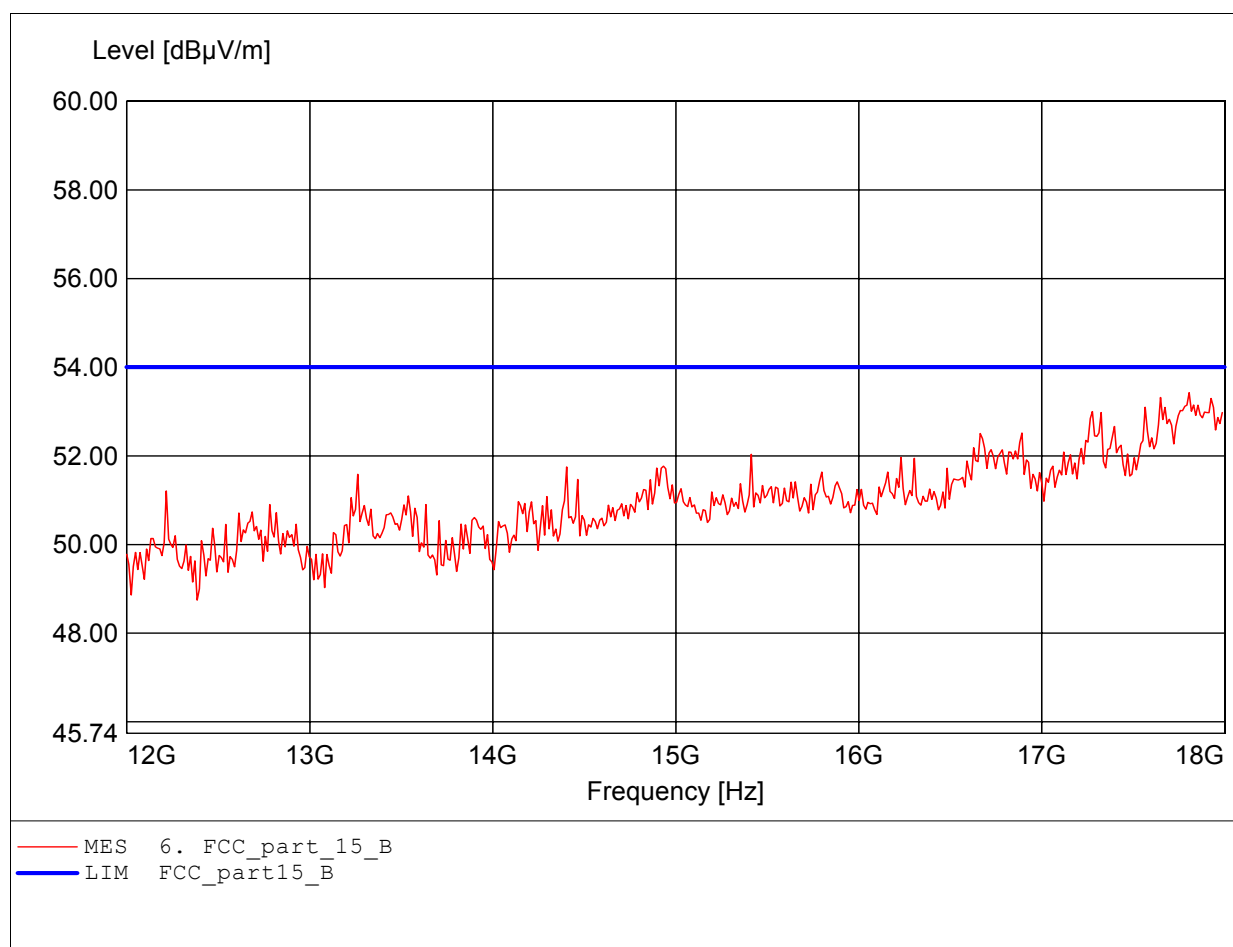
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:17.687GHz Emax:53.16dBμV/m RBW: 1 MHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

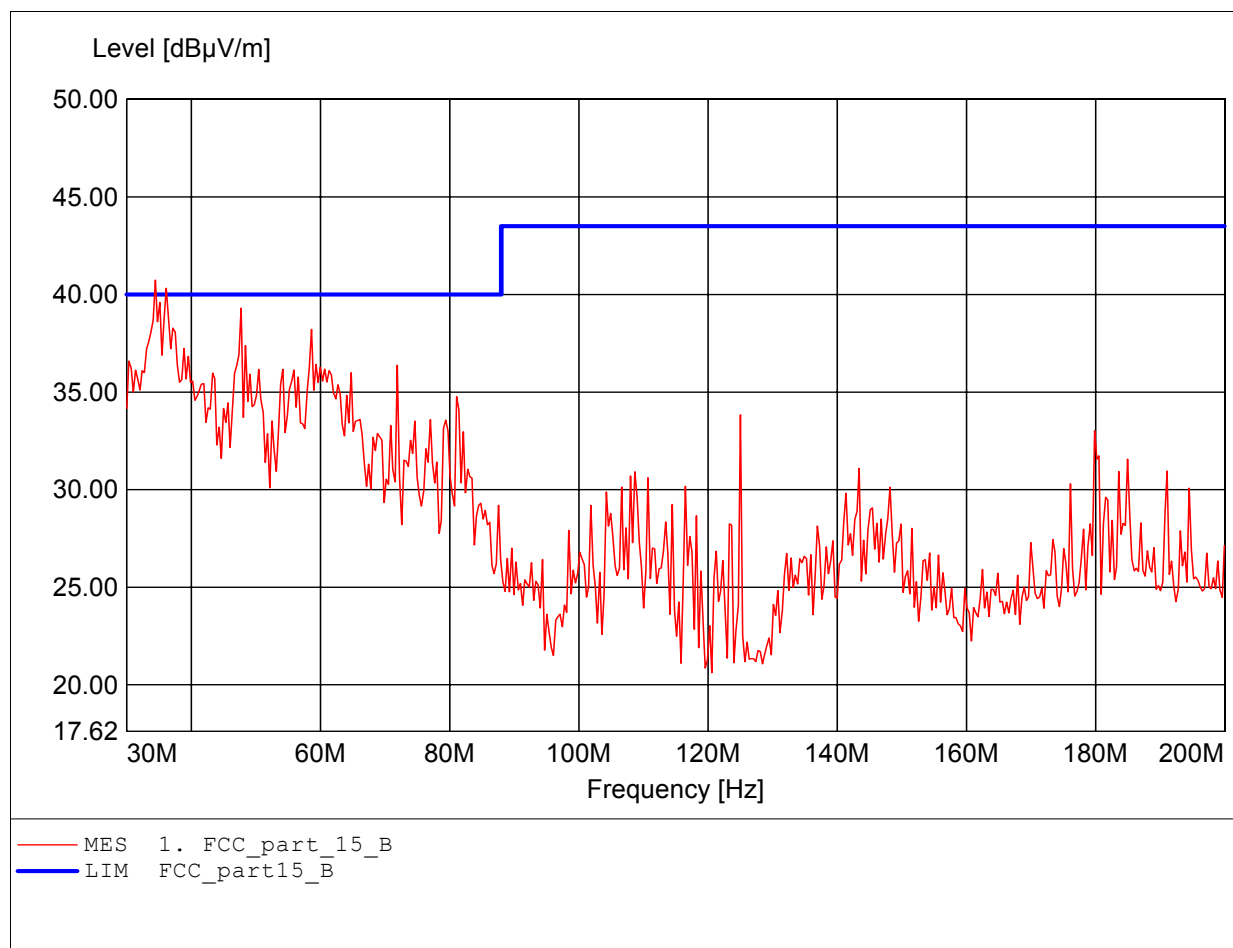
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH6  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:17.808GHz Emax:53.42dBμV/m RBW: 1 MHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HK 116  
Freq:34.429MHz Emax:40.73dBµV/m RBW: 100 kHz



#### MEASUREMENT RESULT:

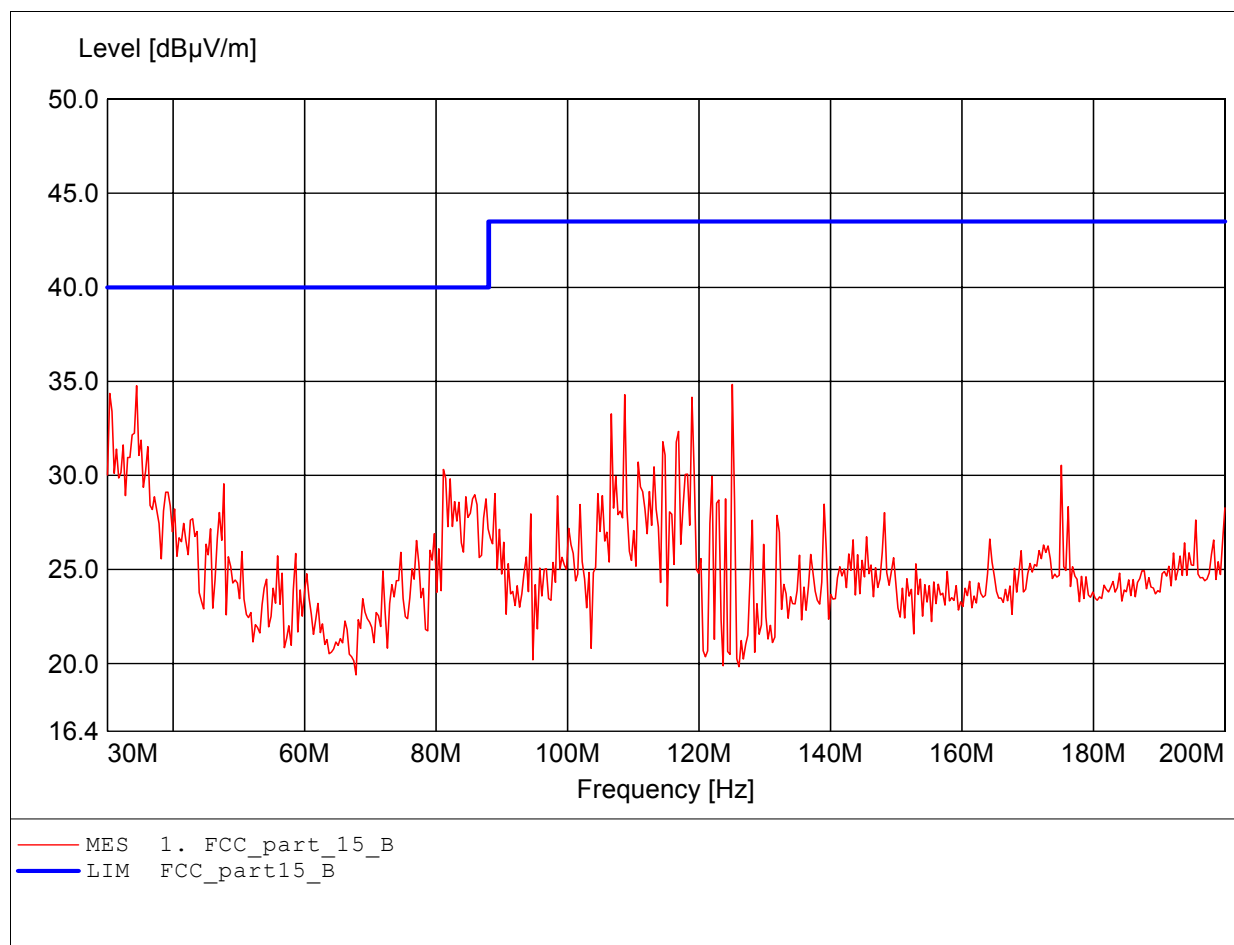
| Frequency<br>MHz | Level<br>dBµV | Limit<br>dBµV | Margin<br>dB | Detector |
|------------------|---------------|---------------|--------------|----------|
| 34.428858        | 35.99         | 40.0          | 4.01         | QP       |



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

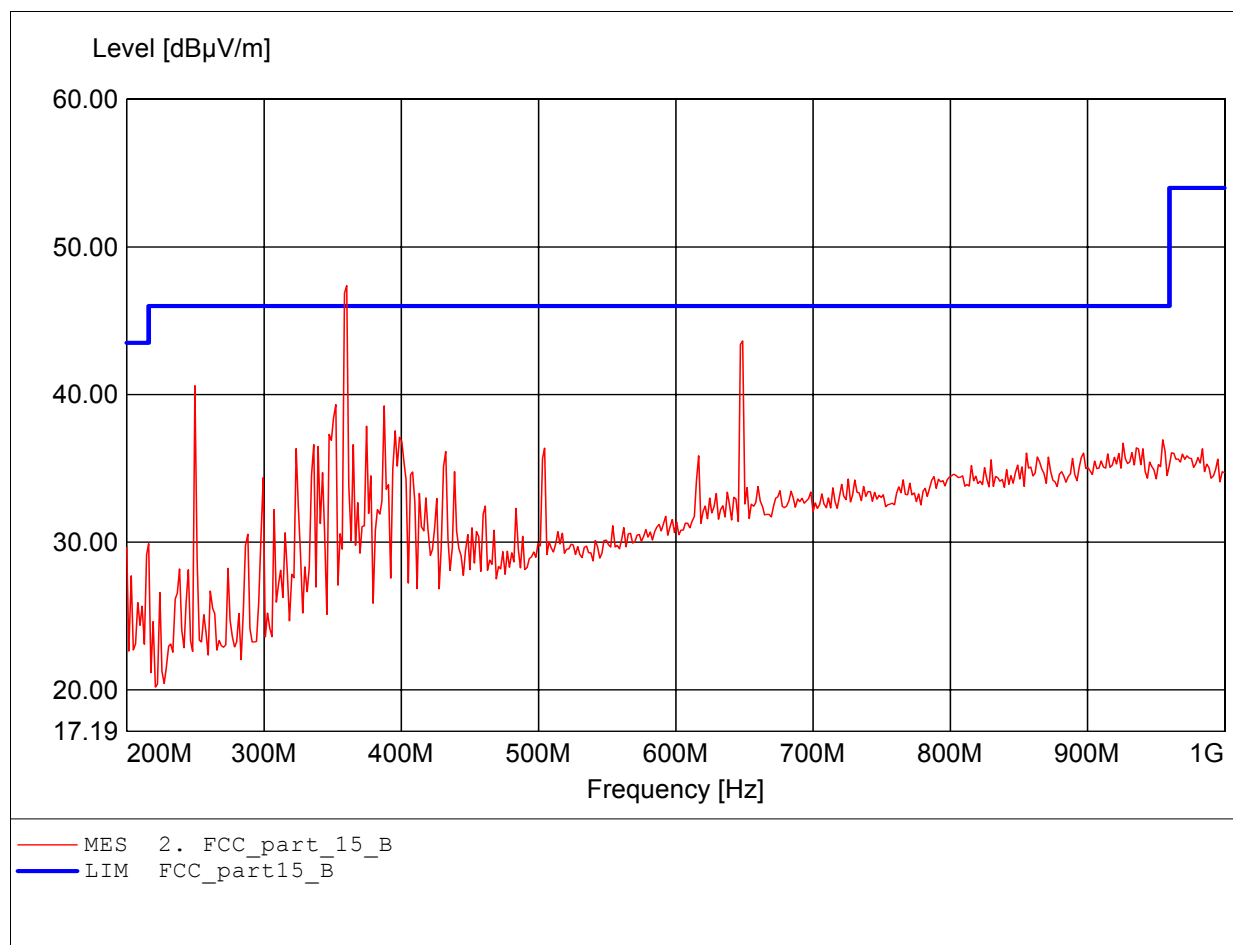
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HK 116  
Freq:125.050MHz Emax:34.84dBμV/m RBW: 100 kHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.  
Freq:360.321MHz Emax:47.37dBµV/m RBW: 100 kHz



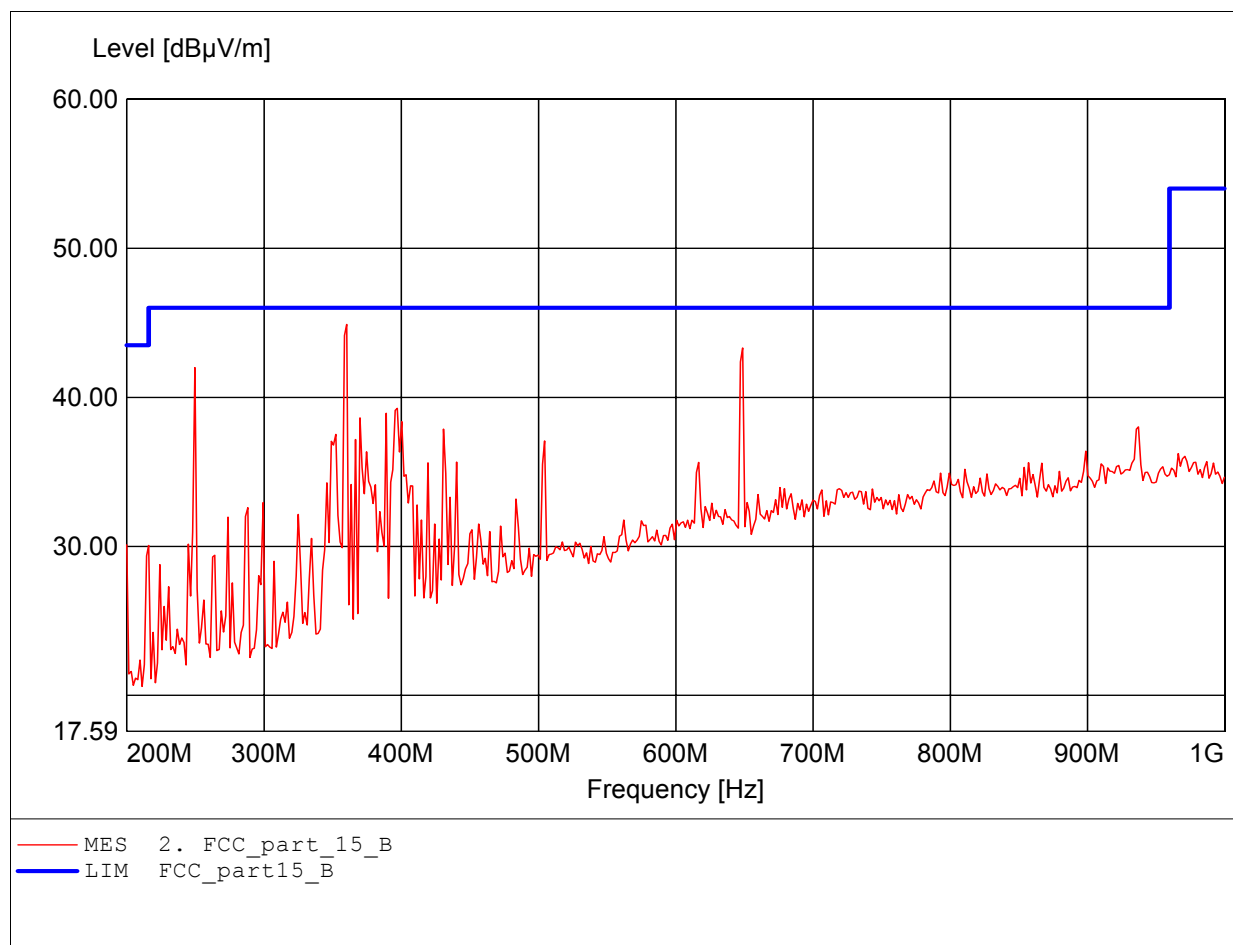
#### MEASUREMENT RESULT:

| Frequency<br>MHz | Level<br>dBµV | Limit<br>dBµV | Margin<br>dB | Detector |
|------------------|---------------|---------------|--------------|----------|
| 360.320641       | 45.36         | 46.0          | 0.74         | QP       |

## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

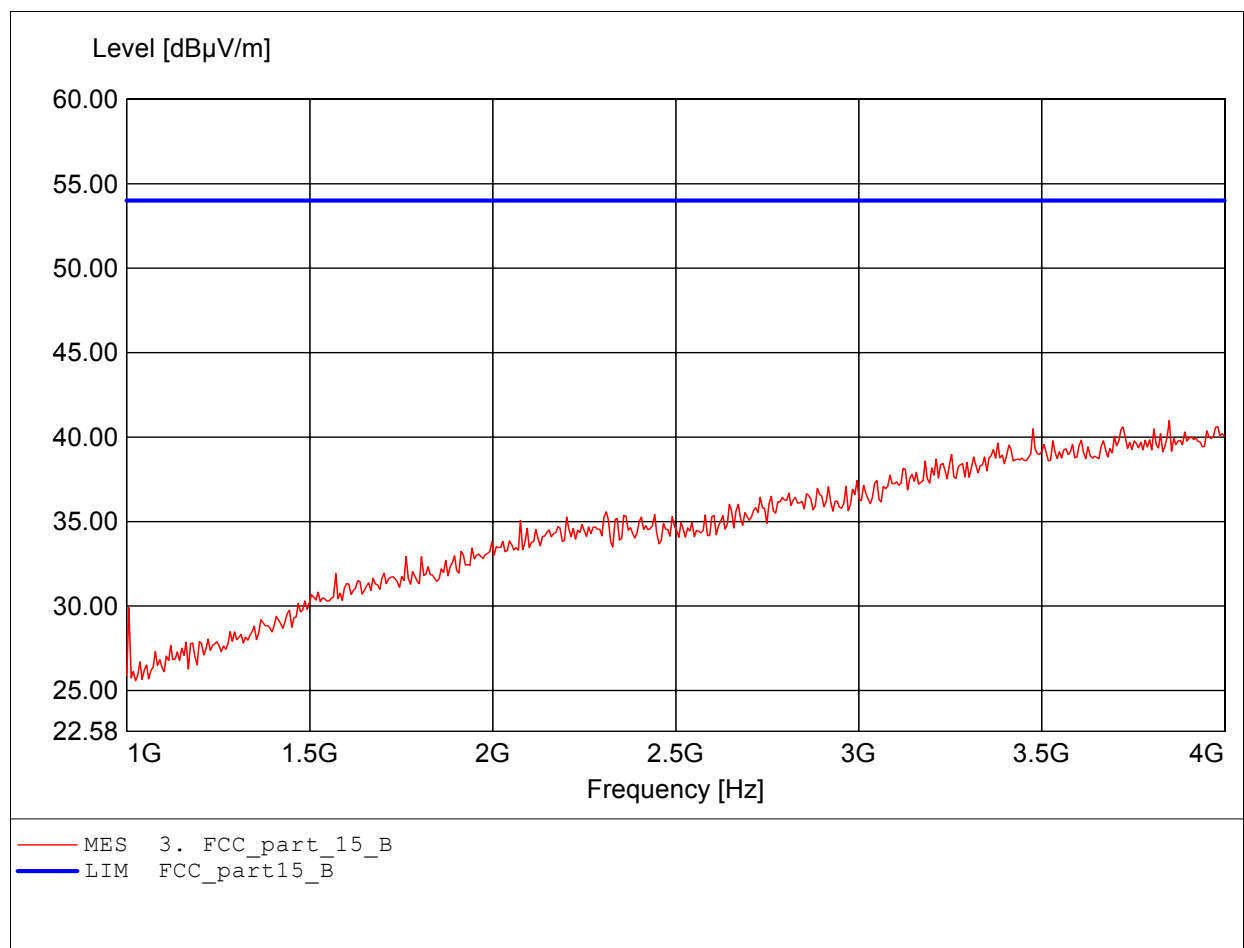
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.  
Freq:360.321MHz Emax:44.89dBμV/m RBW: 100 kHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

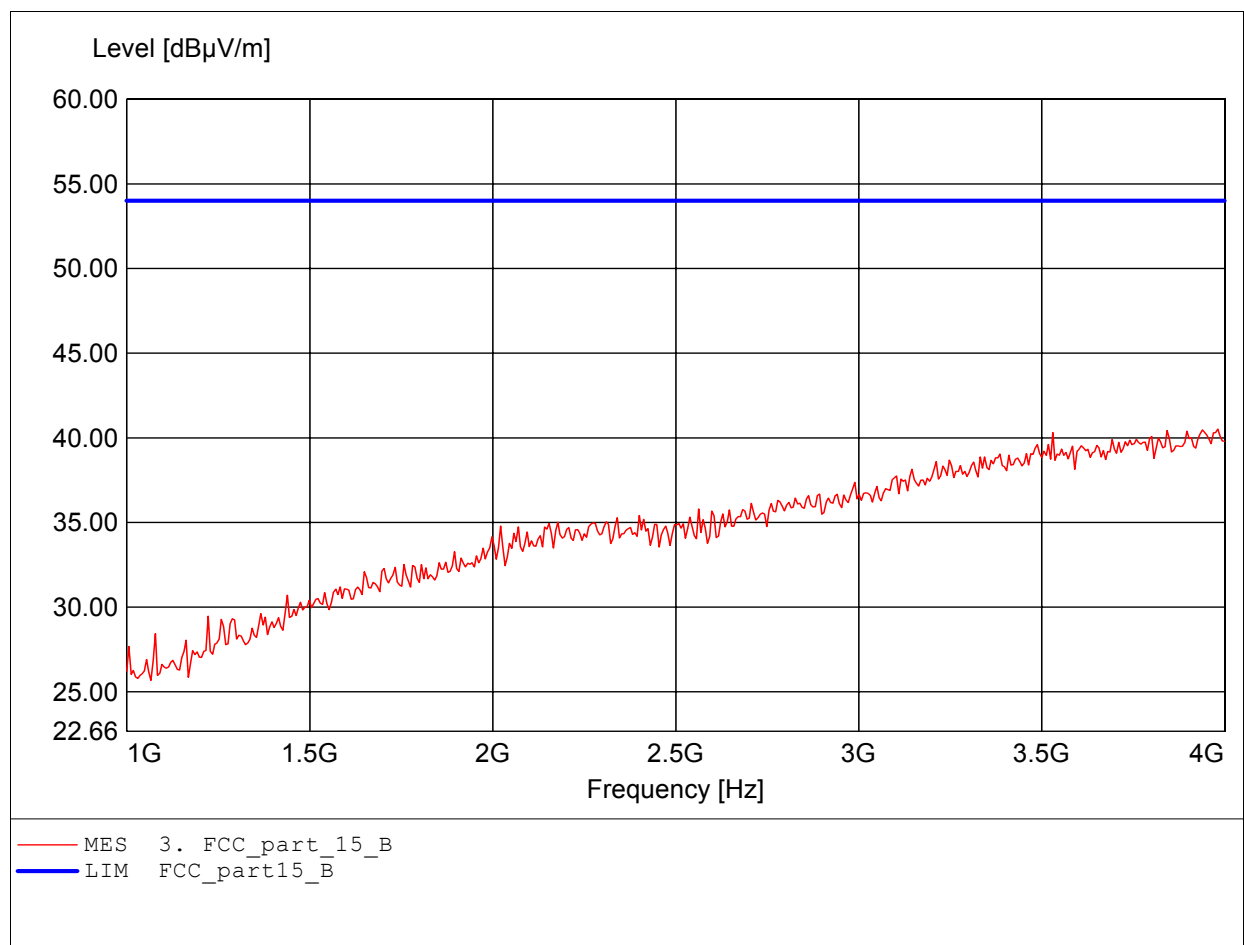
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:3.850GHz Emax:40.98dBμV/m RBW: 1 MHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

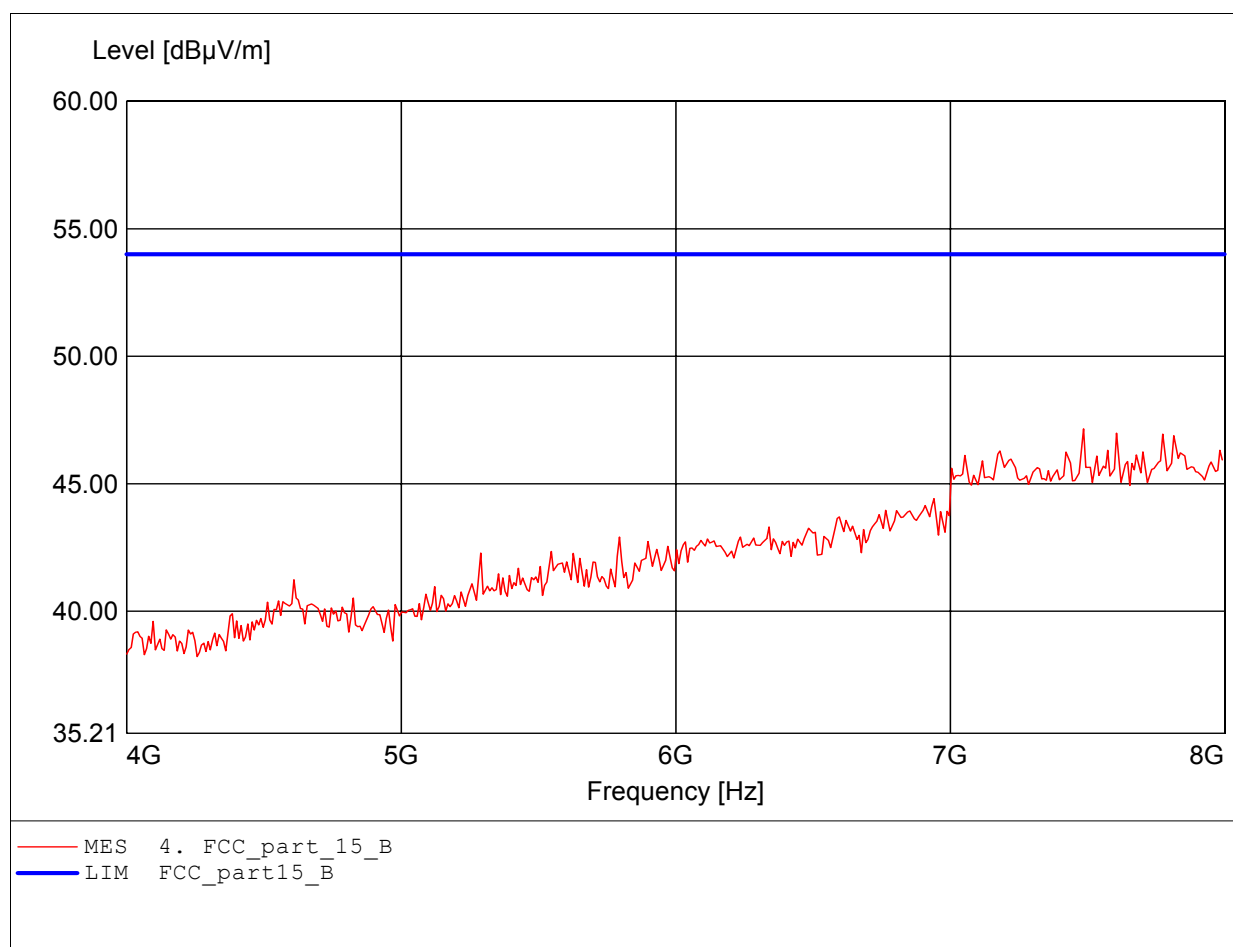
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:3.982GHz Emax:40.51dBμV/m RBW: 1 MHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

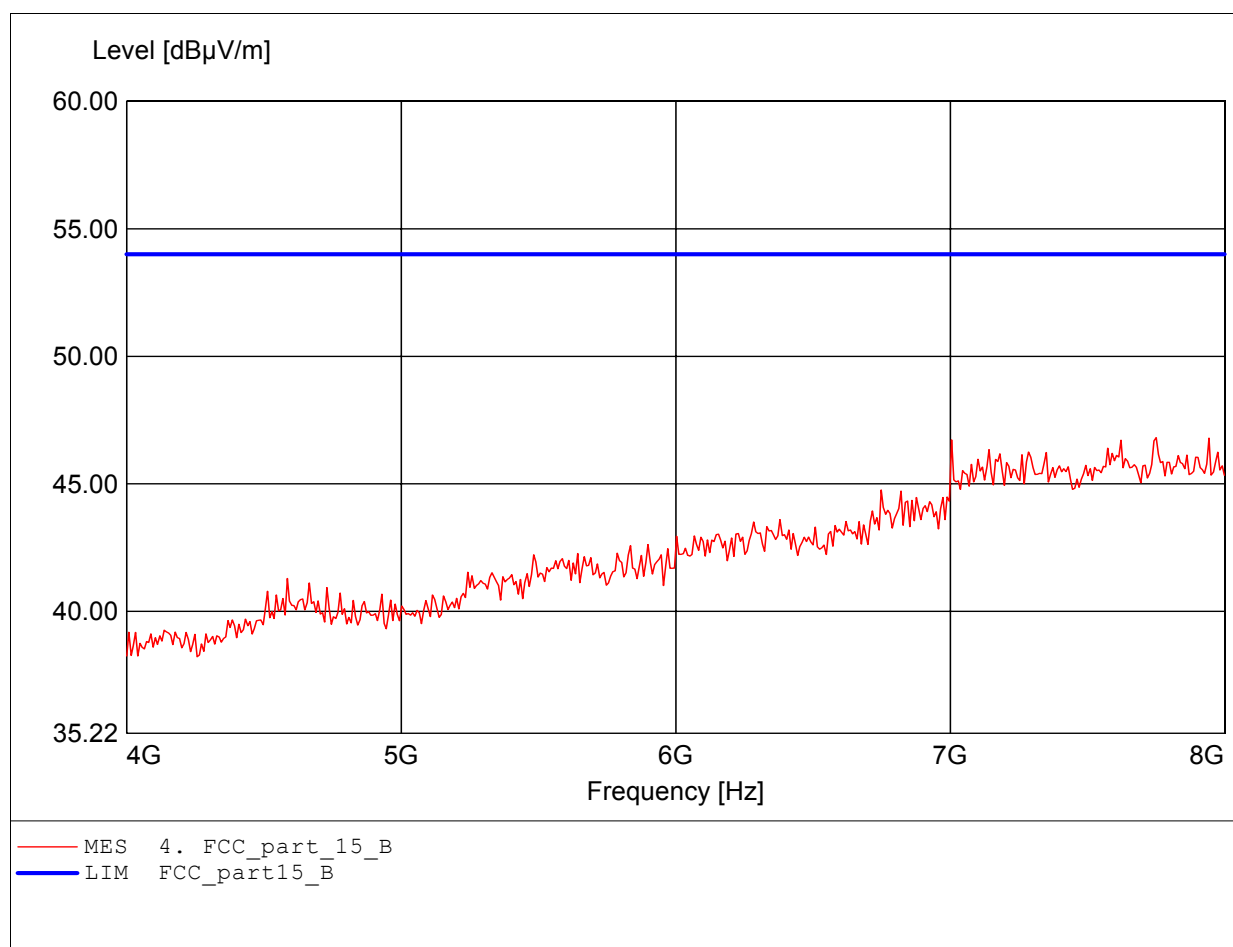
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:7.487GHz Emax:47.15dBμV/m RBW: 1 MHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

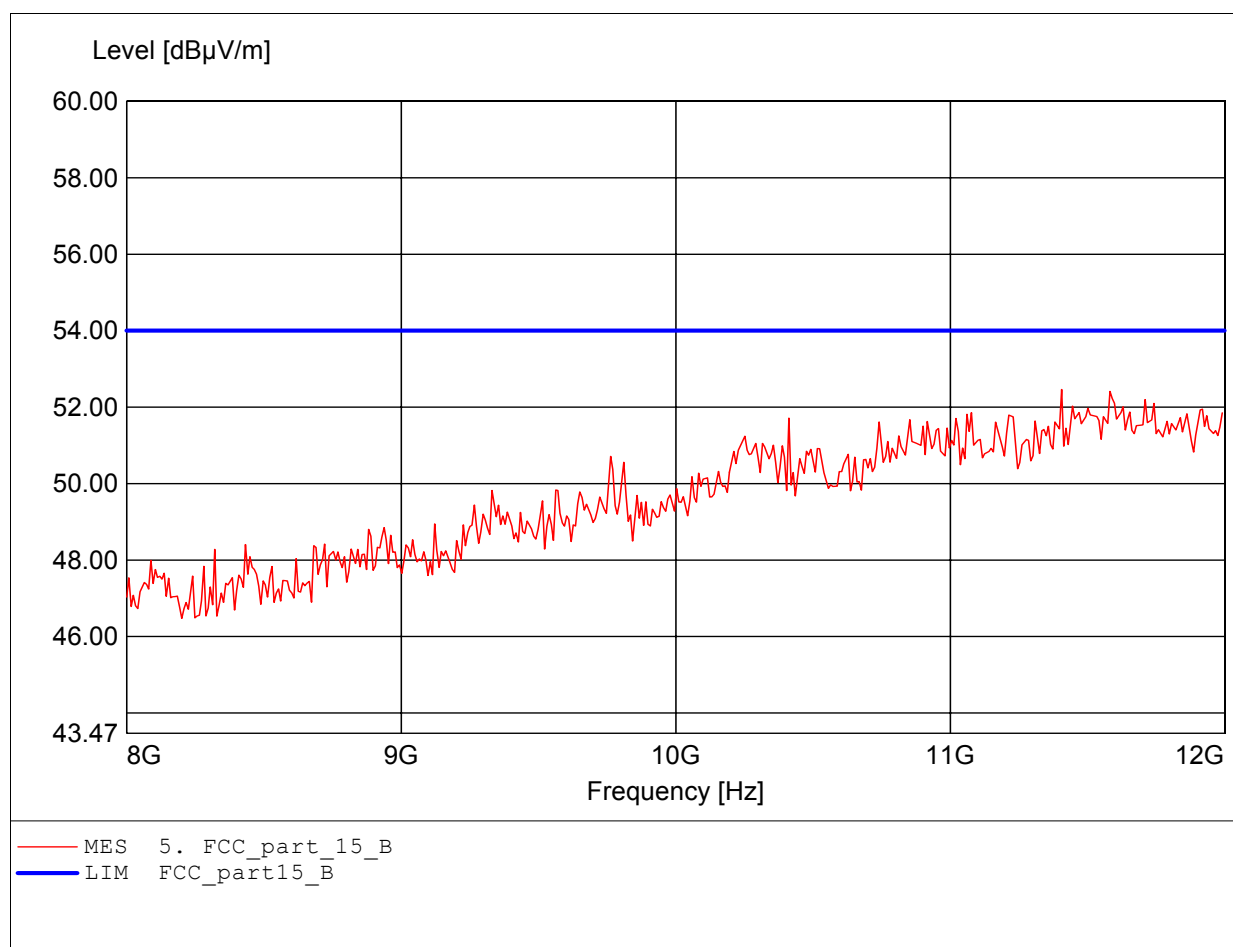
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:7.752GHz Emax:46.81dBμV/m RBW: 1 MHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:11.407GHz Emax:52.46dBuV/m RBW: 1 MHz

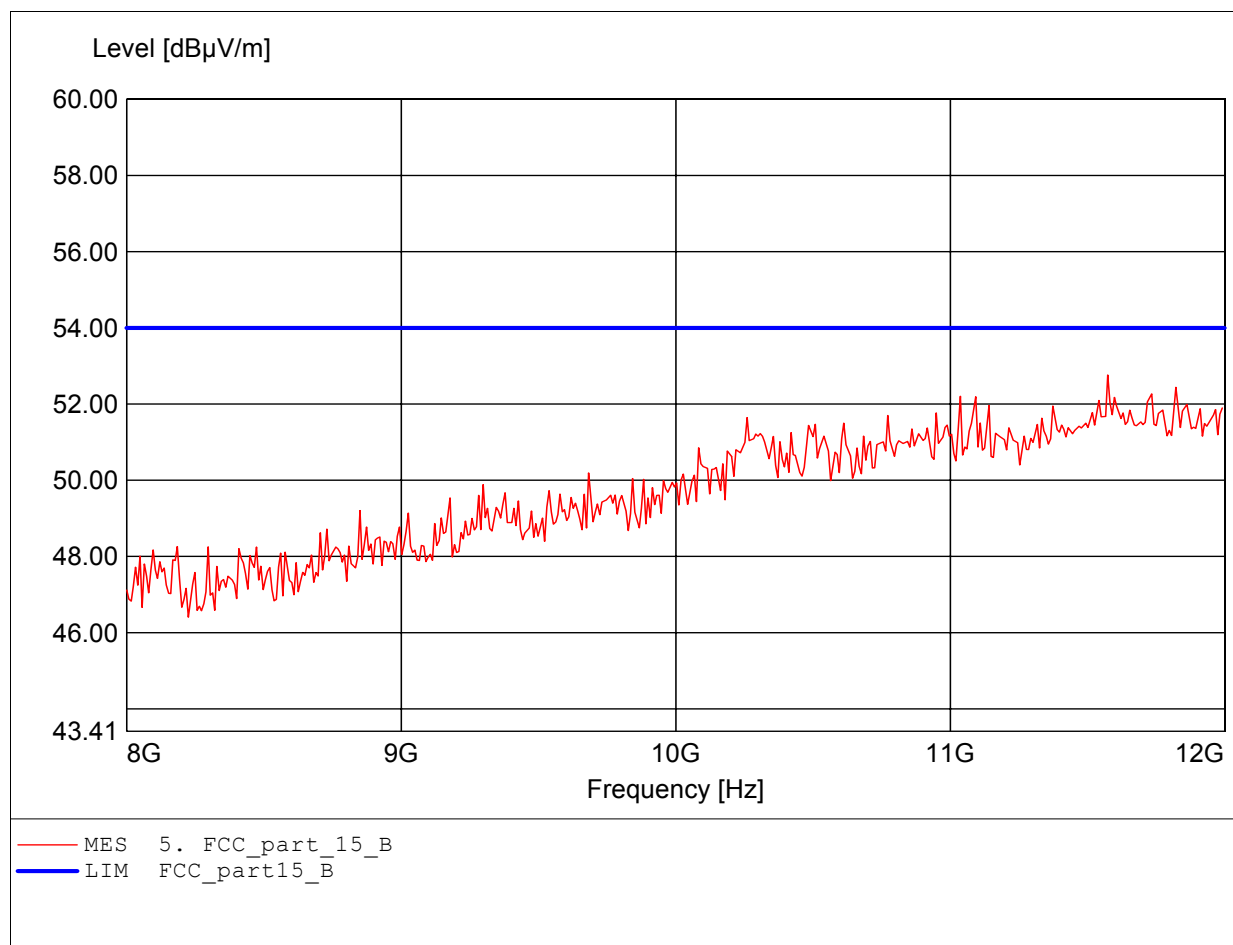




## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

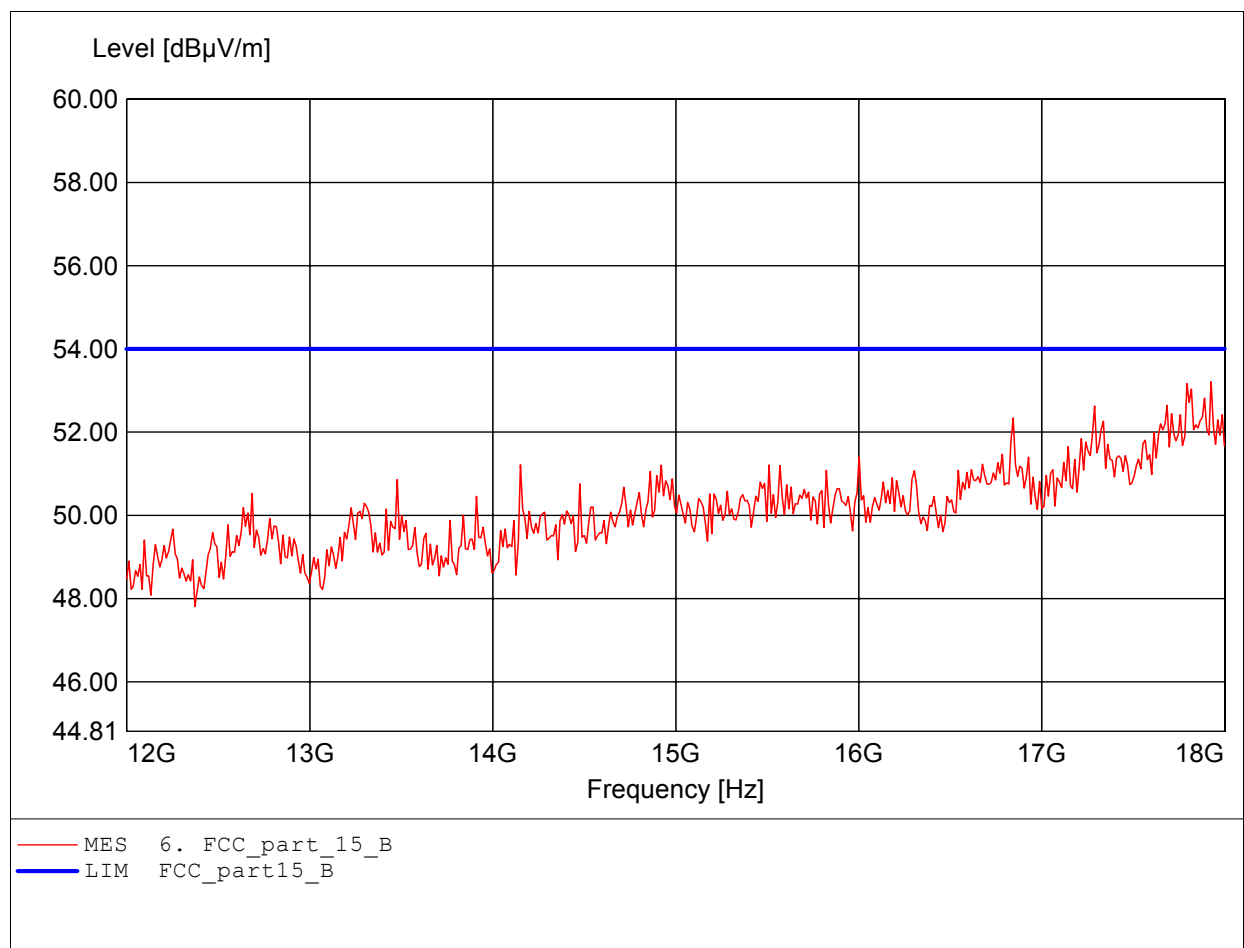
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:11.575GHz Emax:52.76dBuV/m RBW: 1 MHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

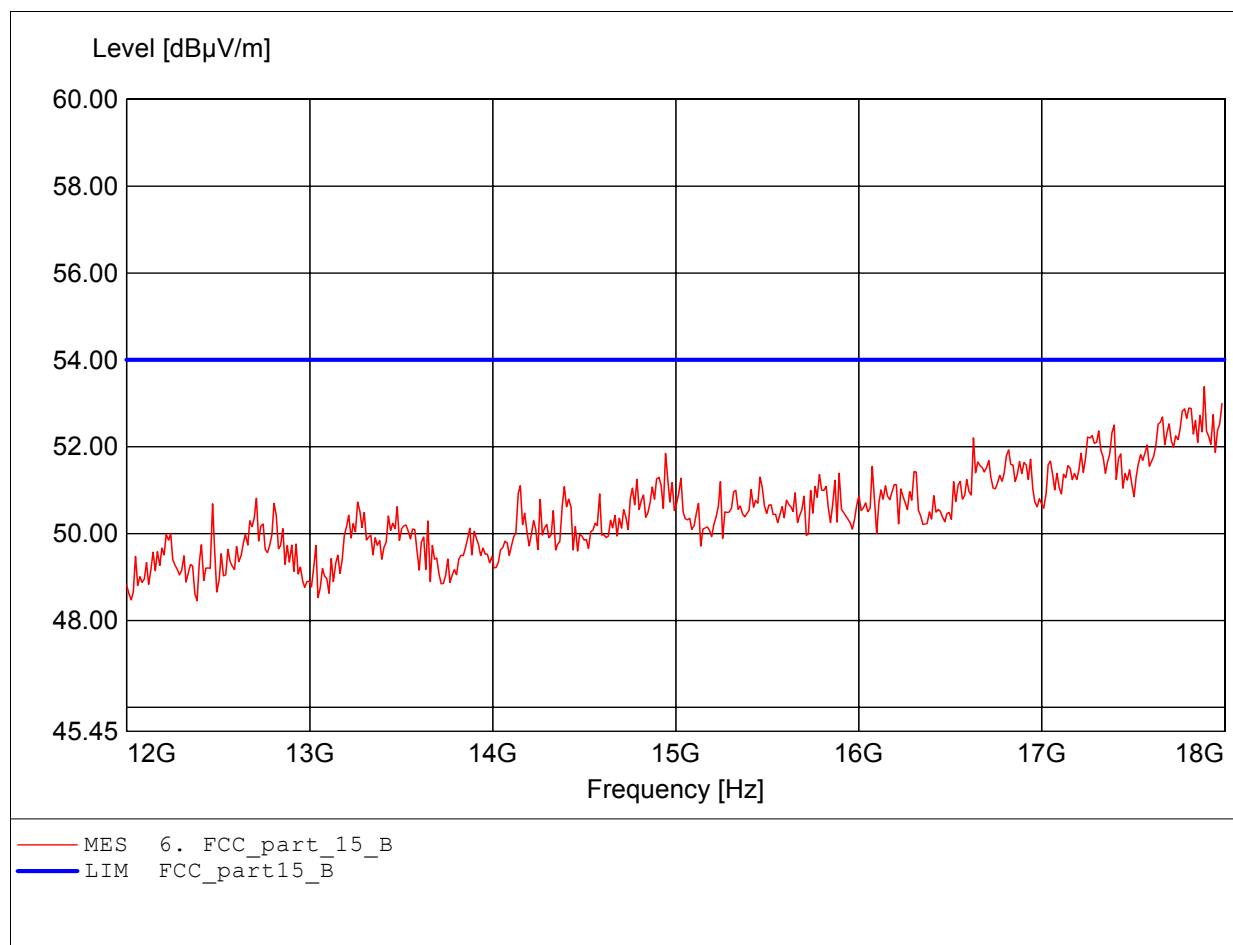
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:17.928GHz Emax:53.21dBμV/m RBW: 1 MHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

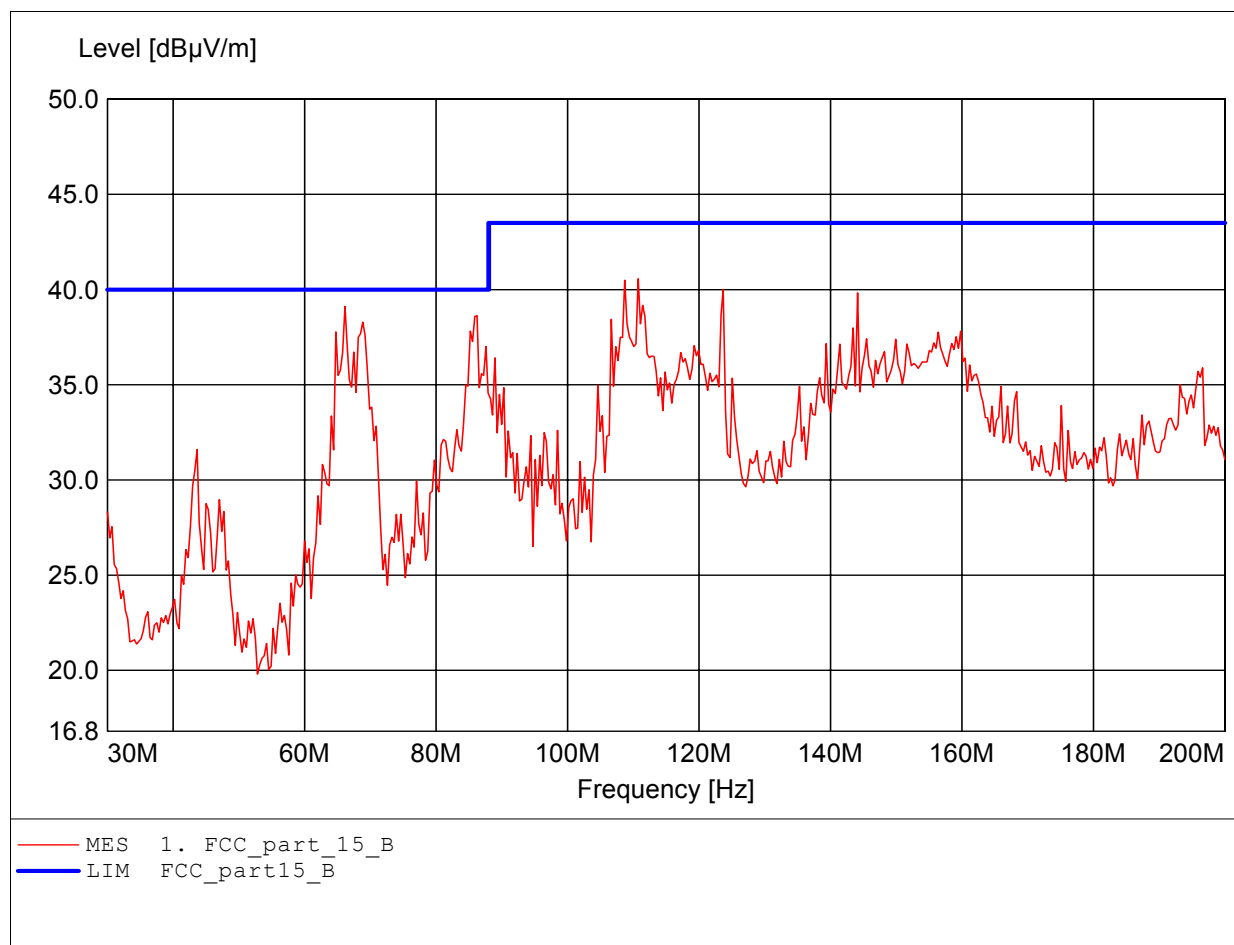
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV 802.11b CH11  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL25, ampl.  
Freq:17.82GHz Emax:53.38dBμV/m RBW: 1 MHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

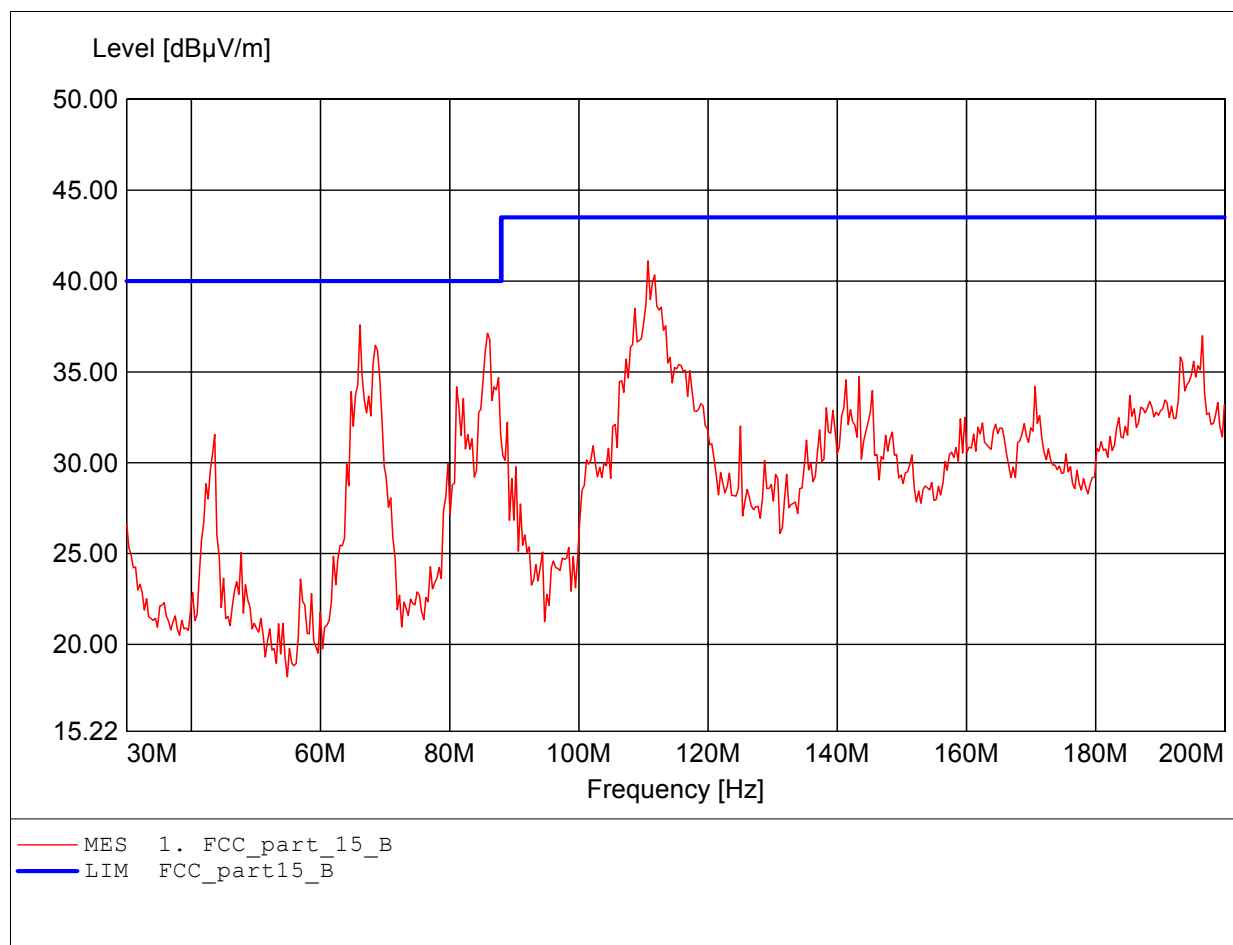
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV  
Approval Holder: ValuePoint Network s, Inc.  
Test Site / Operator: ETS / Mike Wu  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( Power of Ethernet )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HK 116  
Freq:110.741MHz Emax:40.57dBμV/m RBW: 100 kHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

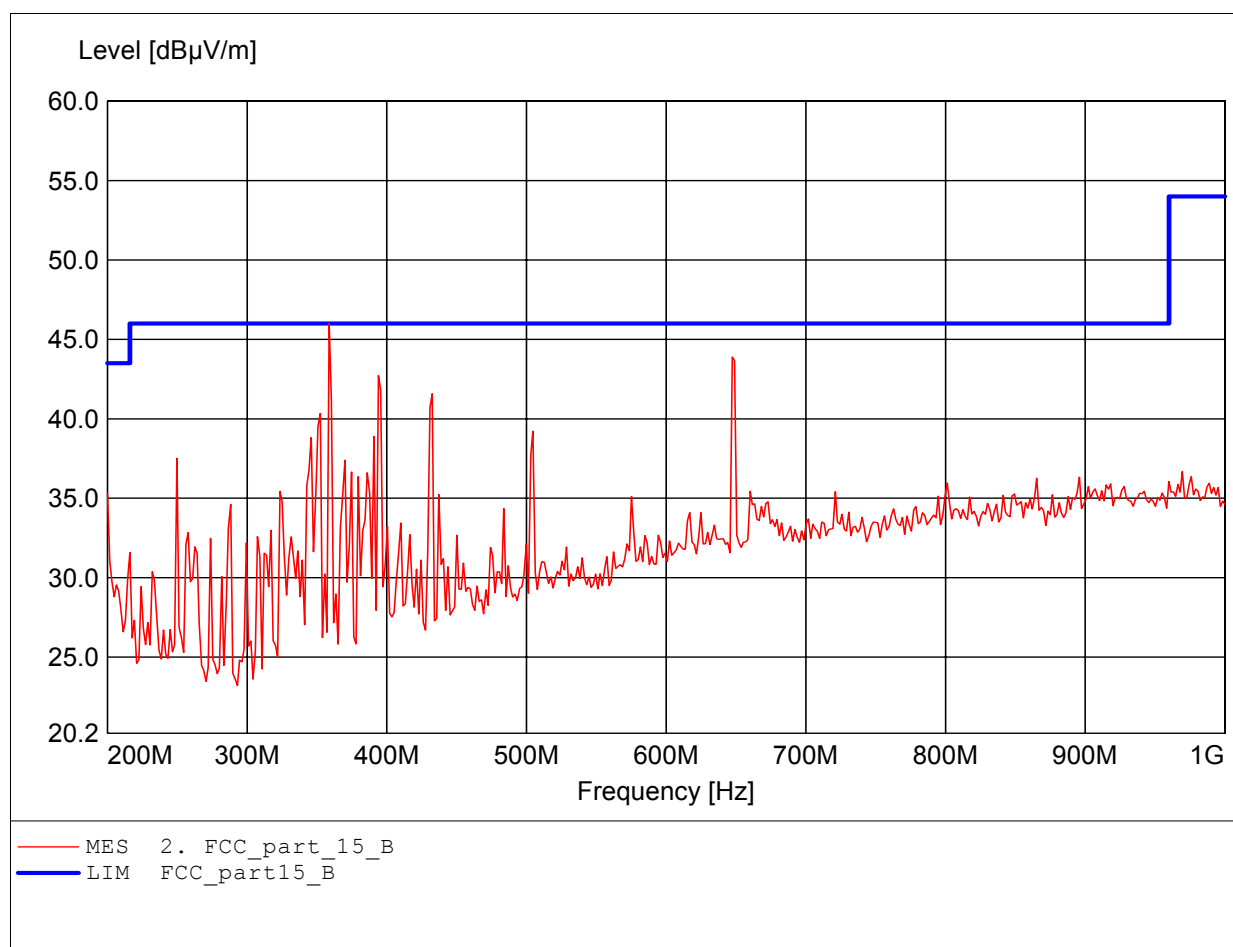
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Mike Wu  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( Power of Ethernet )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HK 116  
Freq:110.741MHz Emax:41.11dBμV/m RBW: 100 kHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV  
Approval Holder: ValuePoint Network s, Inc.  
Test Site / Operator: ETS / Mike Wu  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( Power of Ethernet )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.  
Freq:358.717MHz Emax:46.00dBµV/m RBW: 100 kHz



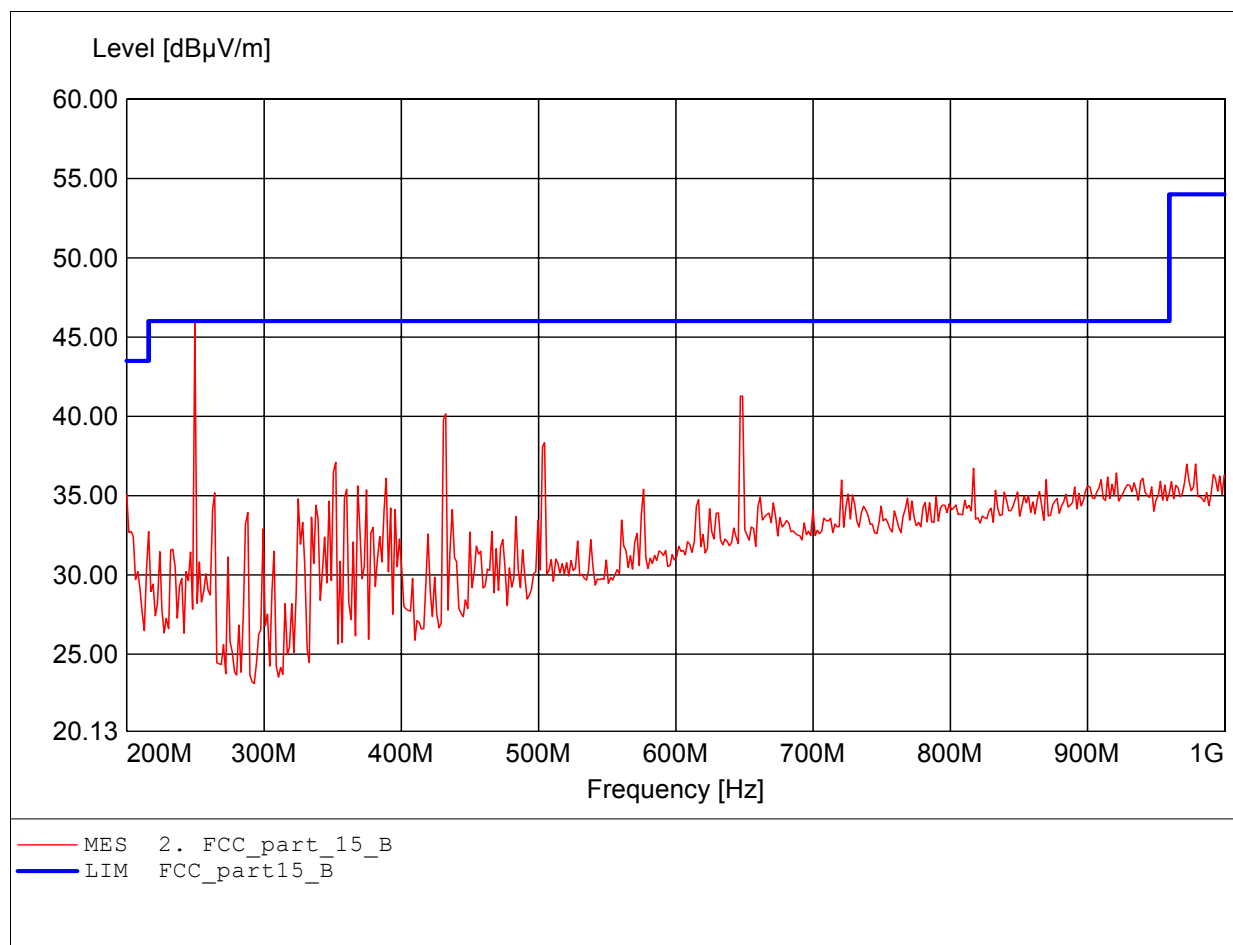
#### MEASUREMENT RESULT:

| Frequency<br>MHz | Level<br>dBµV | Limit<br>dBµV | Margin<br>dB | Detector |
|------------------|---------------|---------------|--------------|----------|
| 358.71743        | 45.23         | 46.0          | 0.77         | QP       |

## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV  
Approval Holder: ValuePoint Network s, Inc.  
Test Site / Operator: ETS / Mike Wu  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( Power of Ethernet )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.  
Freq:249.699MHz Emax:45.87dBμV/m RBW: 100 kHz



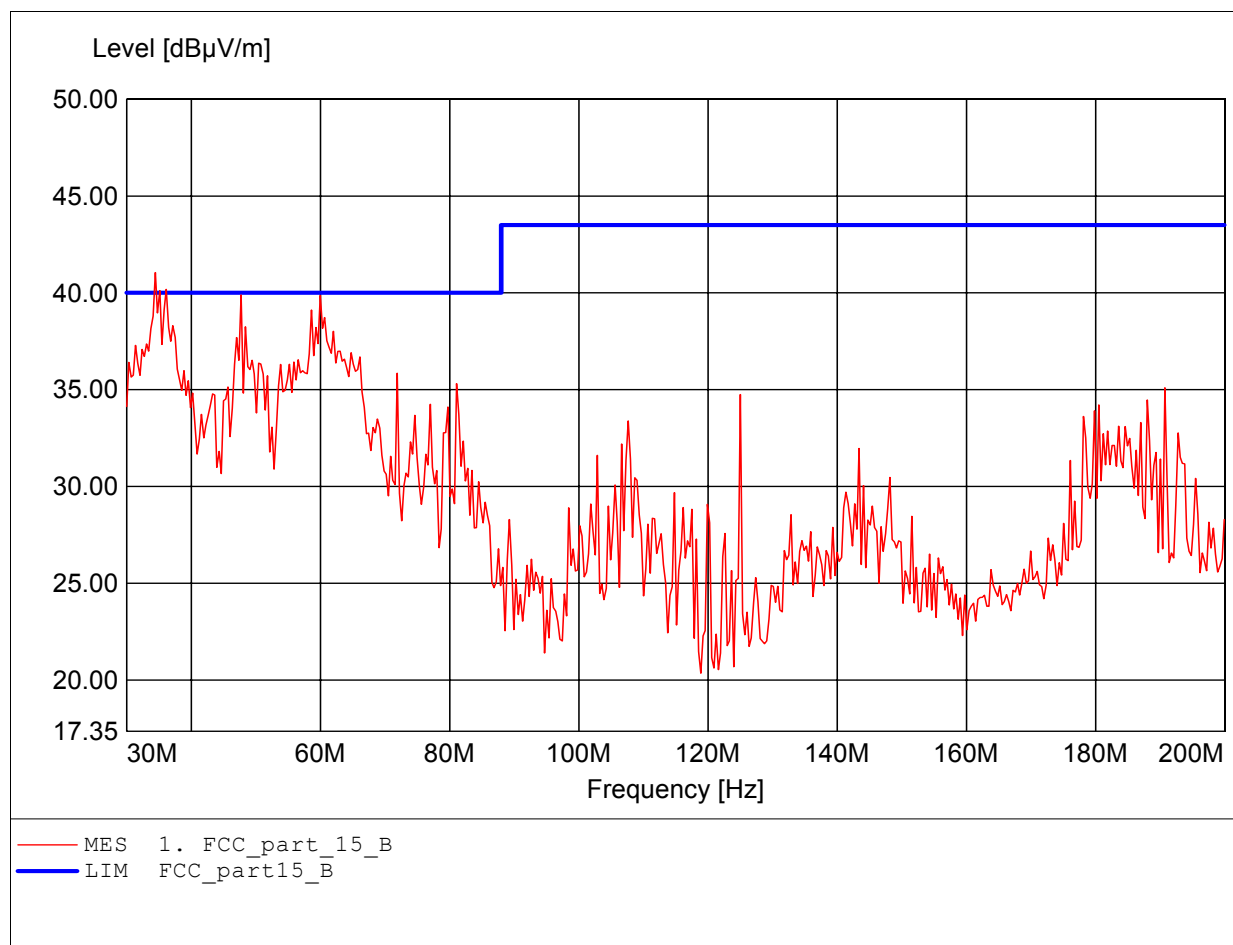
#### MEASUREMENT RESULT:

| Frequency<br>MHz | Level<br>dBμV | Limit<br>dBμV | Margin<br>dB | Detector |
|------------------|---------------|---------------|--------------|----------|
| 249.69939        | 45.50         | 46.0          | 0.50         | QP       |

## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV  
Approval Holder: ValuePoint Network s, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HK 116  
Freq:34.429MHz Emax:41.04dBμV/m RBW: 100 kHz



#### MEASUREMENT RESULT:

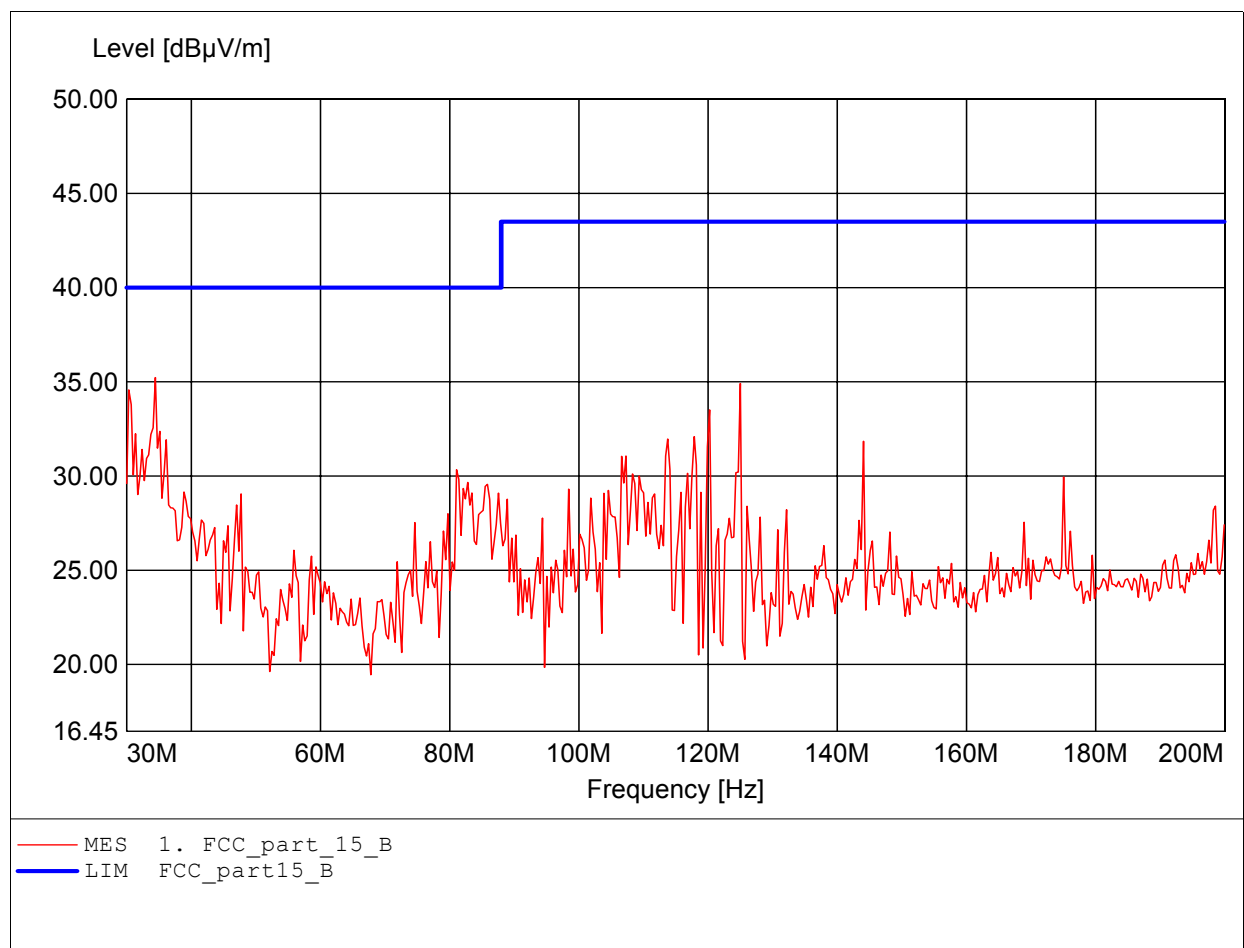
| Frequency<br>MHz | Level<br>dBμV | Limit<br>dBμV | Margin<br>dB | Detector |
|------------------|---------------|---------------|--------------|----------|
| 34.428858        | 36.62         | 40.0          | 3.38         | QP       |
| 47.715431        | 37.87         | 40.0          | 2.13         | QP       |
| 59.979960        | 35.71         | 40.0          | 4.29         | QP       |



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

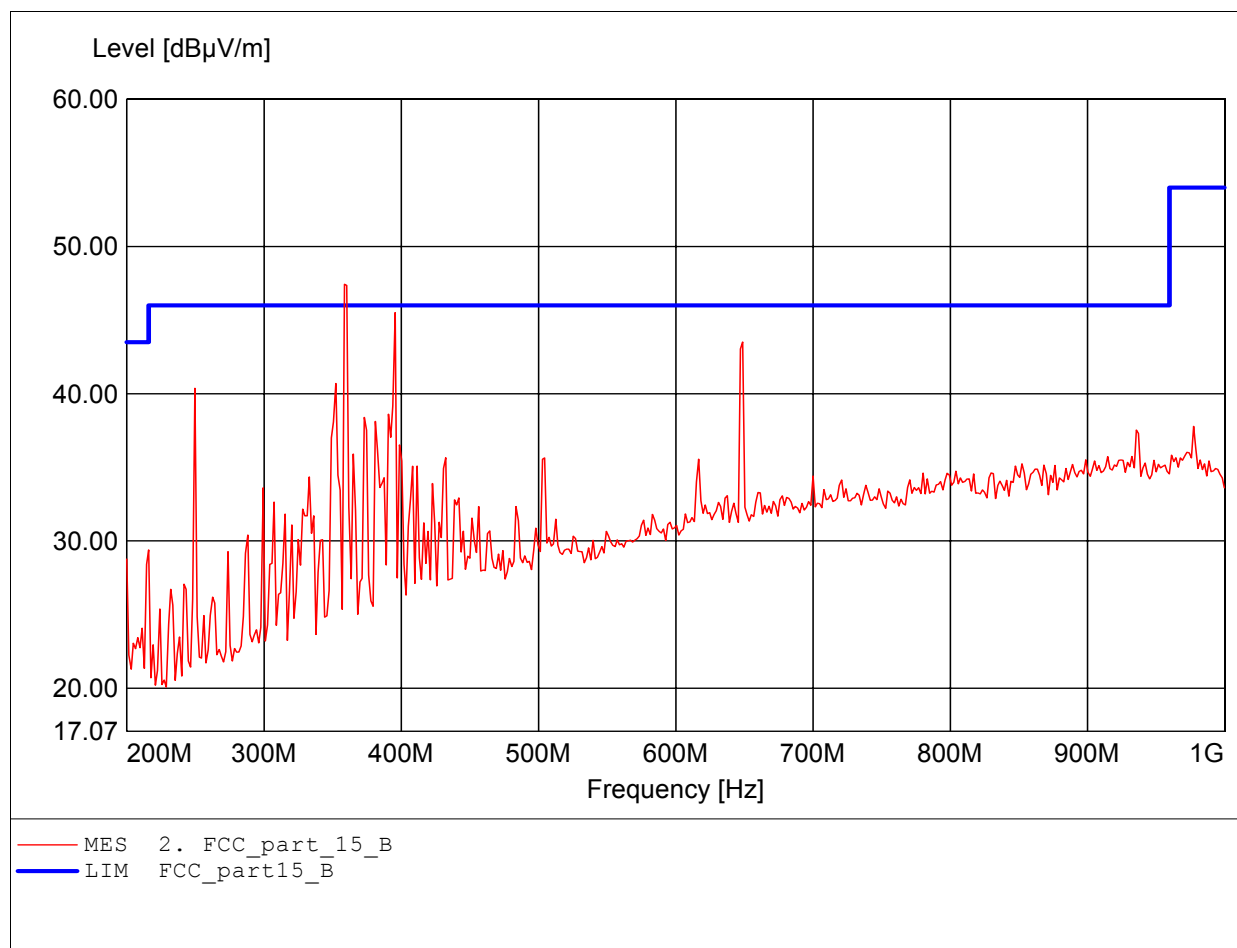
EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV  
Approval Holder: ValuePoint Network s, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HK 116  
Freq:34.429MHz Emax:35.23dBμV/m RBW: 100 kHz



## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.  
Freq:358.717MHz Emax:47.43dBμV/m RBW: 100 kHz



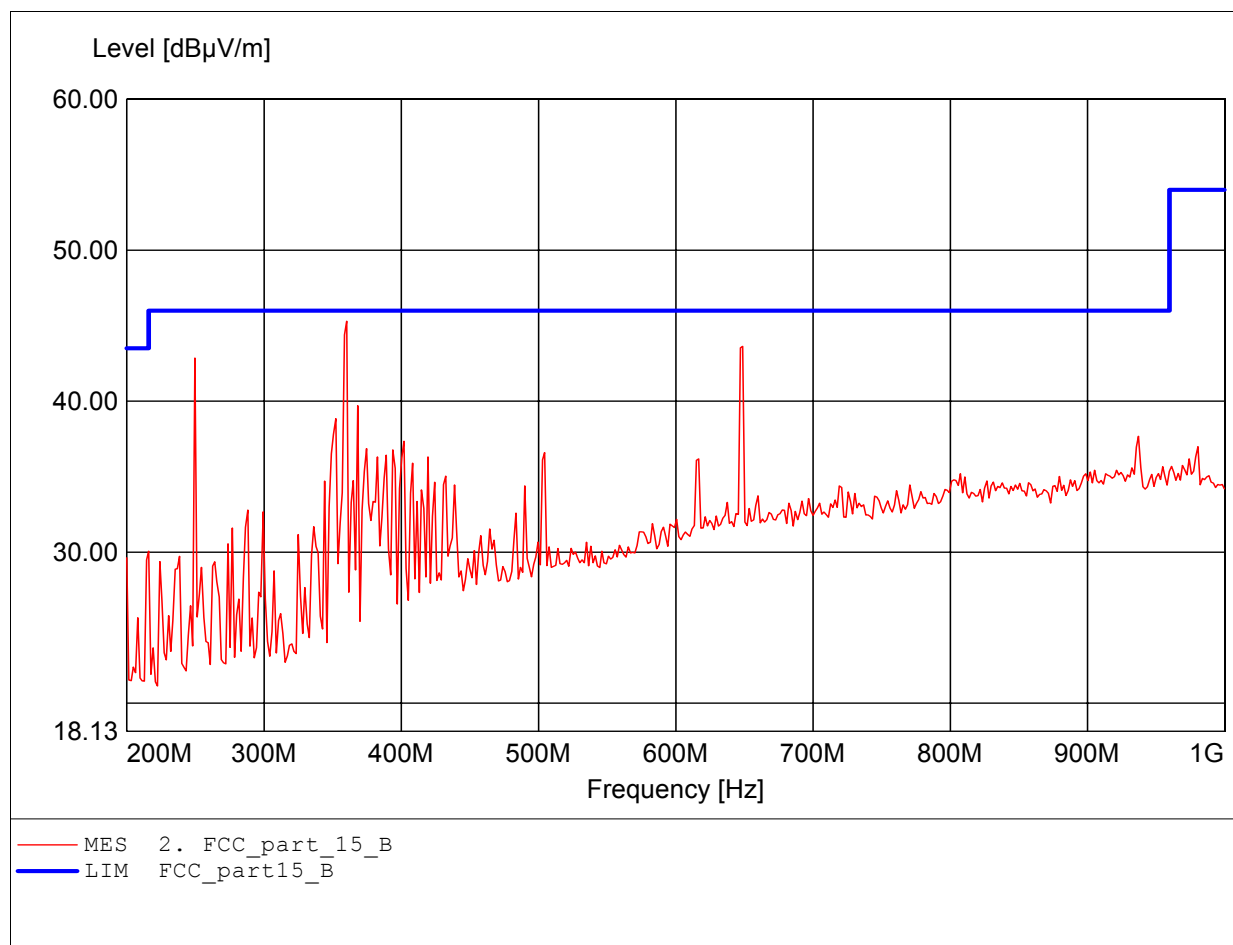
#### MEASUREMENT RESULT:

| Frequency<br>MHz | Level<br>dBμV | Limit<br>dBμV | Margin<br>dB | Detector |
|------------------|---------------|---------------|--------------|----------|
| 358.71743        | 45.19         | 46.0          | 0.81         | QP       |

## Field Strength under normal conditions

### FCC RULES PART 15, SUBPART B

EUT: Wireless AP  
MODEL NO.: SuperAP 500 ADV  
Approval Holder: ValuePoint Networks, Inc.  
Test Site / Operator: ETS / Orville Chang  
Temperature/Voltage: Temp.: 23°C/ Unom.: 120 VAC ( ac / dc Adaptor )  
Test Specification: according to subpart B  
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.  
Freq:360.321MHz Emax:45.29dBμV/m RBW: 100 kHz





Registration number: W6M20506-5956-C-1  
FCC ID: TER-AP500-ADV

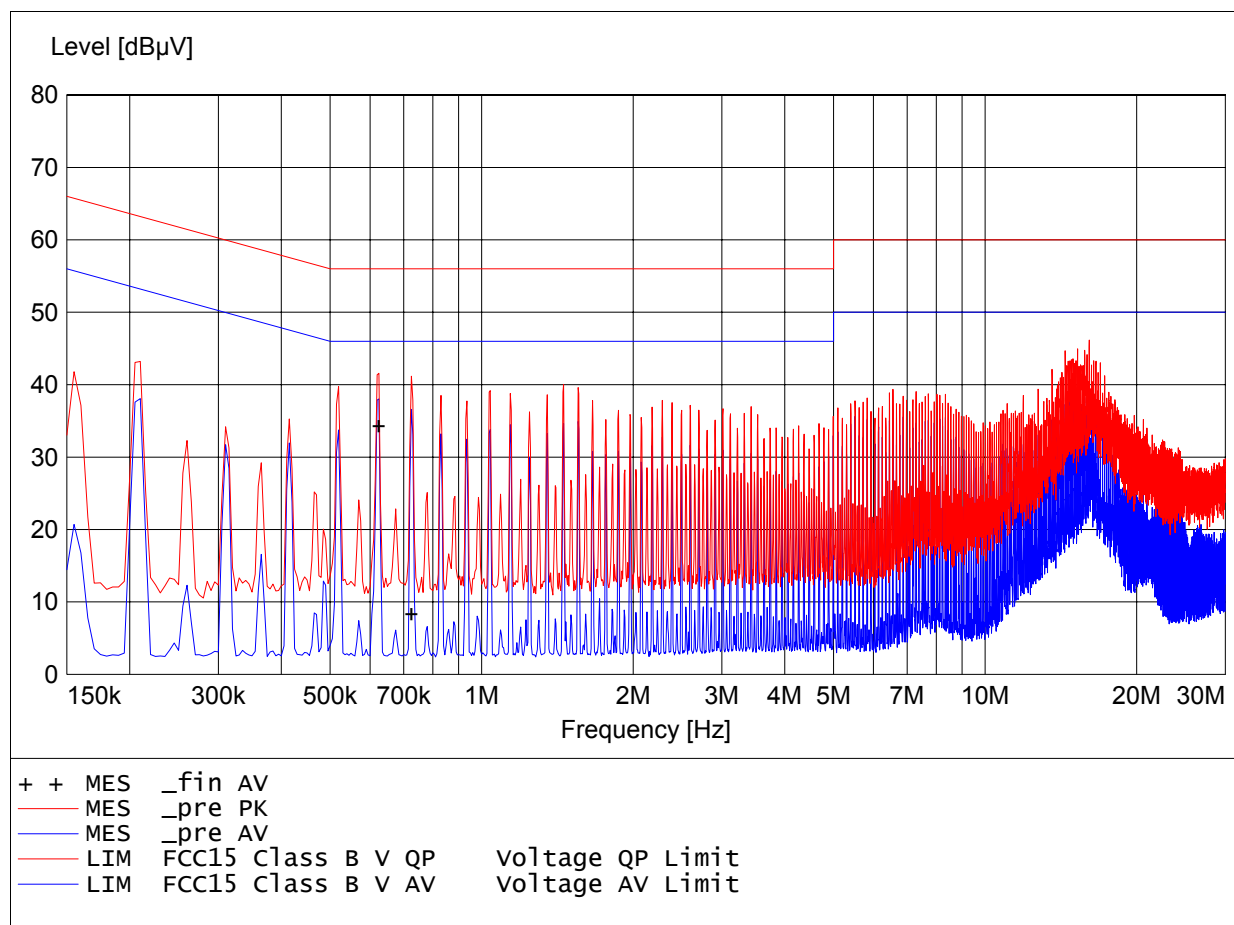
## **Appendix G**

### **Power Line Conducted Emission**

# EMI voltage test in the ac-mains according to FCC Part 15

## Class B

EUT: Wireless AP  
Manufacturer: ValuePoint Networks, Inc.  
Operating Condition: Unom: 120VAC ( POWER ON ETHERNET ) , Tnom: 23°C  
Test Site: ETS  
Operator: Dennis  
Test Specification: V-network: ESH3-Z5 L1  
Comment : model: SuperAP 500 ADV mode: active



# EMI voltage test in the ac-mains according to FCC Part 15

## Class B

EUT: Wireless AP  
Manufacturer: ValuePoint Networks, Inc.  
Operating Condition: Unom: 120VAC ( POWER ON ETHERNET ) , Tnom: 23°C  
Test Site: ETS  
Operator: Henry  
Test Specification: V-network: ESH3-Z5 L1  
Comment : model: SuperAP 500 ADV mode: active

### MEASUREMENT RESULT: "\_fin AV"

6/17/05 11:54AM

| Frequency<br>MHz | Level<br>dBµV | Transd<br>dB | Limit<br>dBµV | Margin<br>dB | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|------|-----|
| 0.525000         | 45.20         | 10.0         | 46            | 0.8          | ---  | --- |
| 0.615000         | 44.90         | 10.0         | 46            | 1.1          | ---  | --- |
| 1.050000         | 26.60         | 10.0         | 46            | 19.4         | ---  | --- |
| 1.140000         | 38.10         | 10.0         | 46            | 7.9          | ---  | --- |
| 1.225000         | 25.90         | 10.0         | 46            | 20.1         | ---  | --- |
| 1.315000         | 28.30         | 10.0         | 46            | 17.8         | ---  | --- |

### MEASUREMENT RESULT: "\_fin QP"

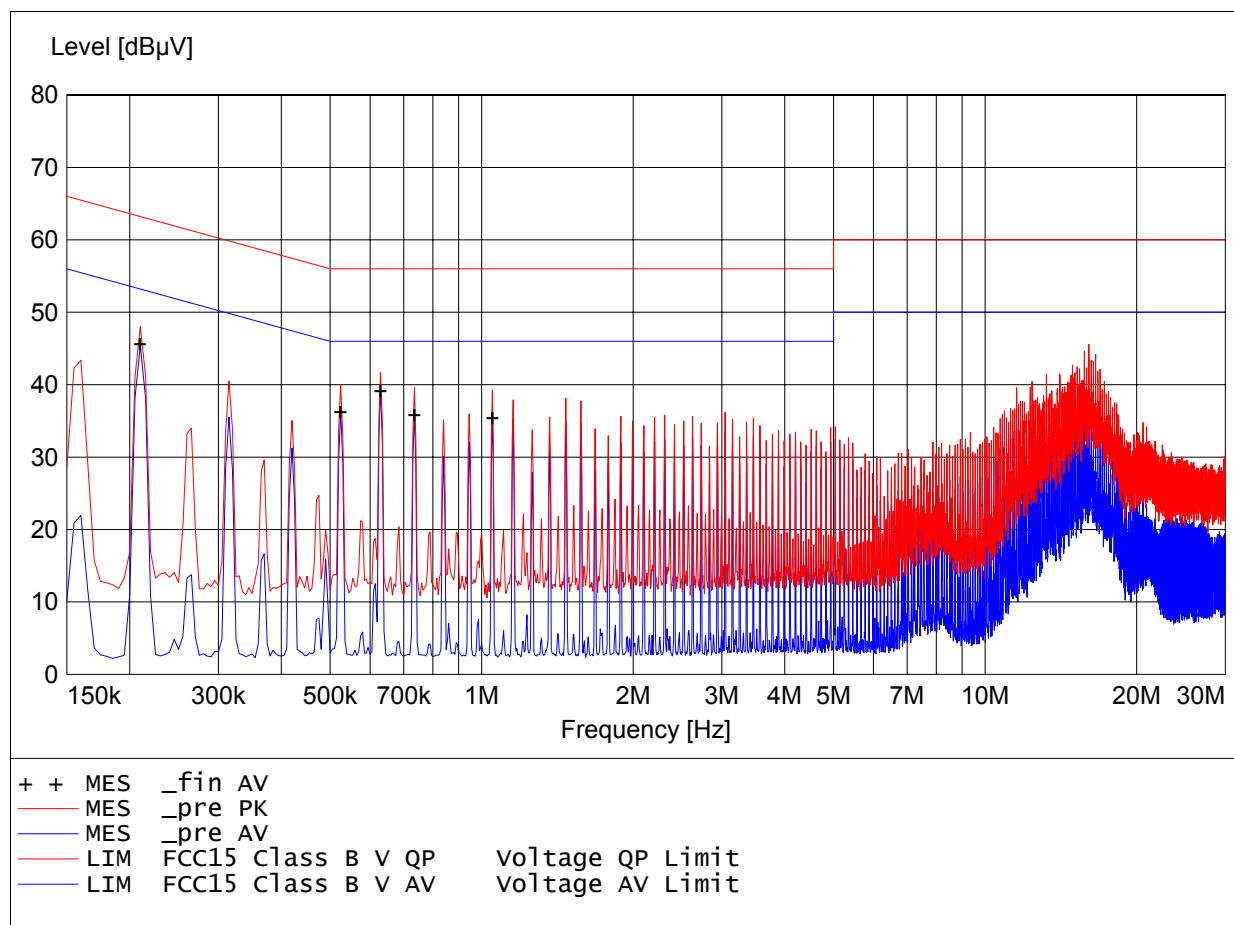
6/17/05 11:54AM

| Frequency<br>MHz | Level<br>dBµV | Transd<br>dB | Limit<br>dBµV | Margin<br>dB | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|------|-----|
| 0.525000         | 50.90         | 10.0         | 56            | 5.1          | ---  | --- |
| 0.615000         | 49.80         | 10.0         | 56            | 6.2          | ---  | --- |
| 1.050000         | 35.10         | 10.0         | 56            | 20.9         | ---  | --- |
| 1.140000         | 41.10         | 10.0         | 56            | 14.9         | ---  | --- |
| 1.225000         | 36.00         | 10.0         | 56            | 20.0         | ---  | --- |
| 1.315000         | 38.00         | 10.0         | 56            | 18.0         | ---  | --- |

# EMI voltage test in the ac-mains according to FCC Part 15

## Class B

EUT: Wireless AP  
Manufacturer: ValuePoint Networks, Inc.  
Operating Condition: Unom: 120VAC ( POWER ON ETHERNET ) , Tnom: 23°C  
Test Site: ETS  
Operator: Dennis  
Test Specification: V-network: ESH3-Z5 N  
Comment : model: SuperAP 500 ADV mode: active  
:



# EMI voltage test in the ac-mains according to FCC Part 15

## Class B

EUT: Wireless AP  
Manufacturer: ValuePoint Networks, Inc.  
Operating Condition: Unom: 120VAC ( POWER ON ETHERNET ) , Tnom: 23°C  
Test Site: ETS  
Operator: Henry  
Test Specification: V-network: ESH3-Z5 N  
Comment : model: SuperAP 500 ADV mode: active

### MEASUREMENT RESULT: "\_fin AV"

6/17/05 1:02PM

| Frequency<br>MHz | Level<br>dBµV | Transd<br>dB | Limit<br>dBµV | Margin<br>dB | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|------|-----|
| 0.530000         | 45.30         | 10.0         | 46            | 0.7          | ---  | --- |
| 0.620000         | 44.00         | 10.0         | 46            | 2.0          | ---  | --- |
| 1.060000         | 45.90         | 10.0         | 46            | 0.1          | ---  | --- |
| 1.150000         | 45.30         | 10.0         | 46            | 0.7          | ---  | --- |
| 1.235000         | 44.30         | 10.0         | 46            | 1.7          | ---  | --- |
| 1.325000         | 45.50         | 10.0         | 46            | 0.5          | ---  | --- |

### MEASUREMENT RESULT: "\_fin QP"

6/17/05 1:02PM

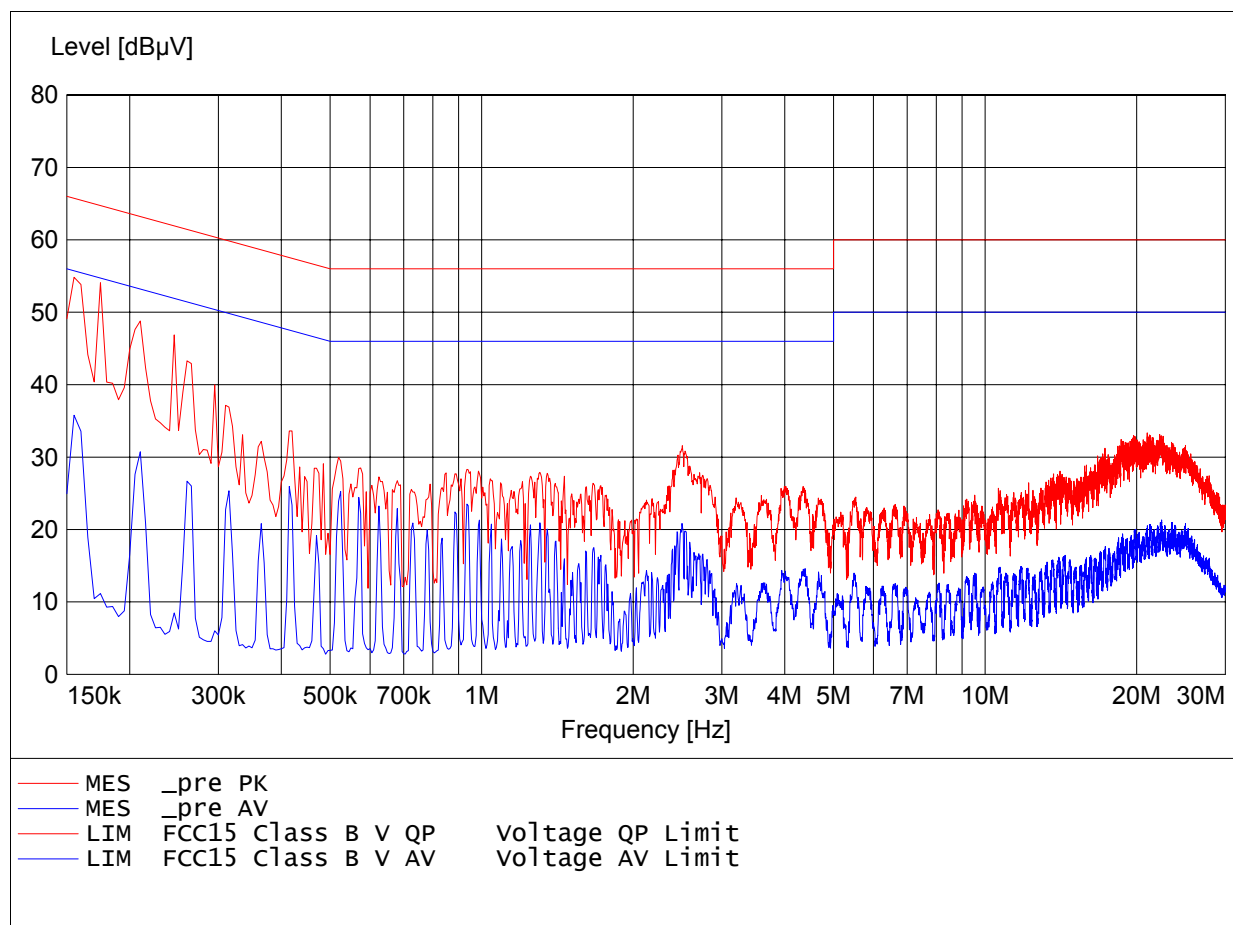
| Frequency<br>MHz | Level<br>dBµV | Transd<br>dB | Limit<br>dBµV | Margin<br>dB | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|------|-----|
| 0.530000         | 55.40         | 10.0         | 56            | 0.6          | ---  | --- |
| 0.620000         | 52.70         | 10.0         | 56            | 3.3          | ---  | --- |
| 1.060000         | 52.80         | 10.0         | 56            | 3.2          | ---  | --- |
| 1.150000         | 55.20         | 10.0         | 56            | 0.8          | ---  | --- |
| 1.235000         | 48.60         | 10.0         | 56            | 7.4          | ---  | --- |
| 1.820000         | 32.80         | 10.1         | 56            | 23.2         | ---  | --- |



# EMI voltage test in the ac-mains according to FCC Part 15

## Class B

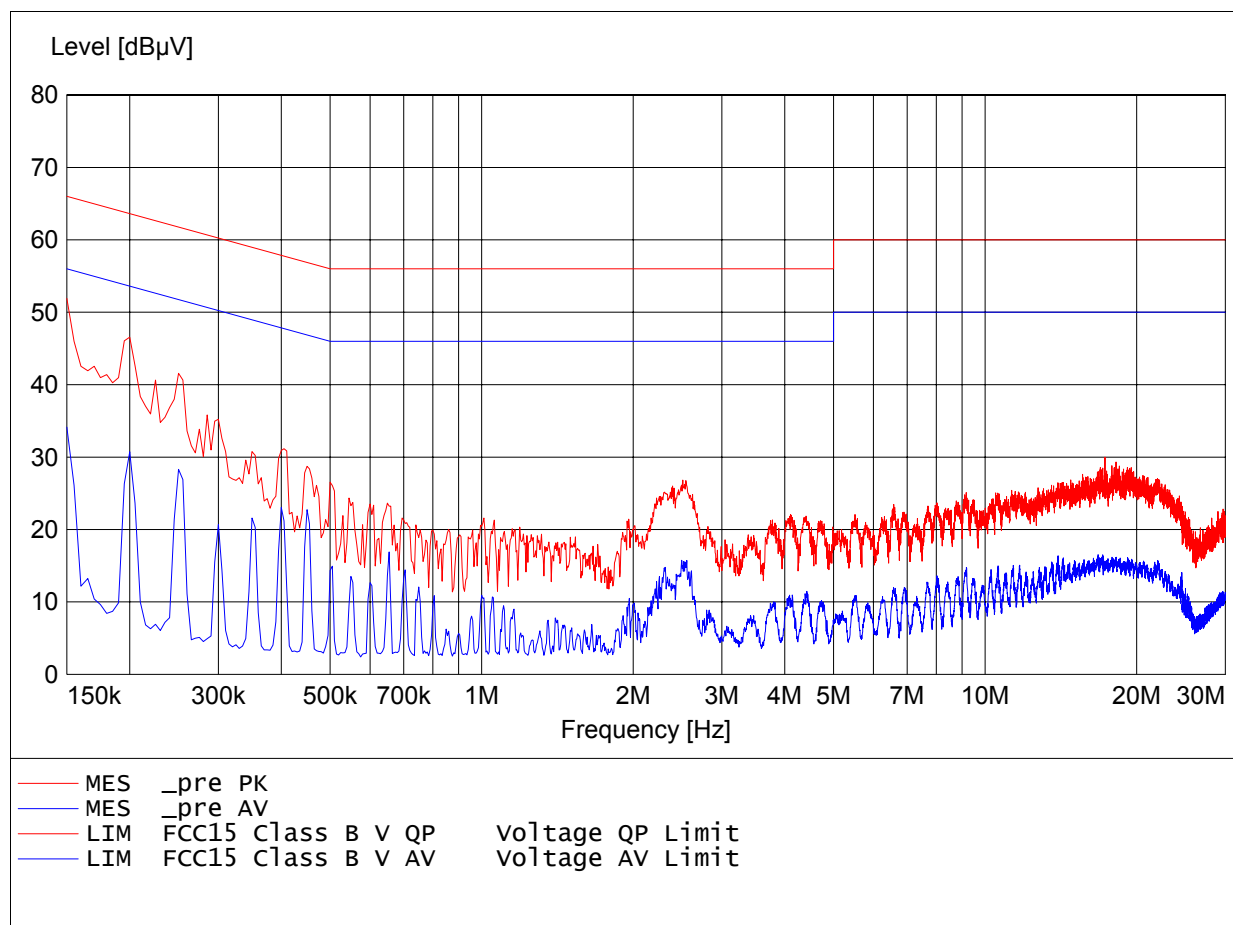
EUT: Wireless AP  
Manufacturer: ValuePoint Networks, Inc.  
Operating Condition: Unom: 120VAC (AC/DC ADAPTOR) , Tnom: 23°C  
Test Site: ETS  
Operator: Eric  
Test Specification: V-network: ESH3-Z5 L1  
Comment : model: SuperAP 500 ADV mode: active



# EMI voltage test in the ac-mains according to FCC Part 15

## Class B

EUT: Wireless AP  
Manufacturer: ValuePoint Networks, Inc.  
Operating Condition: Unom: 120VAC (AC/DC ADAPTOR) , Tnom: 23°C  
Test Site: ETS  
Operator: Eric  
Test Specification: V-network: ESH3-Z5 N  
Comment : model: SuperAP 500 ADV mode: active





Registration number: W6M20506-5956-C-1  
FCC ID: TER-AP500-ADV

## **Appendix H**

### Pictures