



TESTING LABORATORY  
CERTIFICATE #4820.01



# FCC PART 15 B TEST REPORT

For

## Iconnect

No.9, Aly. 58, Ln. 112, Ruiguang Rd., Neihu Dist., Taipei City, Taiwan

**FCC ID: 2AB879531**

|                                        |                                                                                                                                                                                                                                                       |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report Type:</b><br>Original Report | <b>Product Type:</b><br>WiFi USB Extender Router                                                                                                                                                                                                      |
| <b>Report Number:</b>                  | RDG180925011-00A                                                                                                                                                                                                                                      |
| <b>Report Date:</b>                    | 2018-11-14                                                                                                                                                                                                                                            |
| <b>Reviewed By:</b>                    | Jerry Zhang<br>EMC Manager<br><i>Jerry Zhang</i>                                                                                                                                                                                                      |
| <b>Test Laboratory:</b>                | Bay Area Compliance Laboratories Corp. (Dongguan)<br>No.69 Pulongcun, Puxinhu Industry Area,<br>Tangxia, Dongguan, Guangdong, China<br>Tel: +86-769-86858888<br>Fax: +86-769-86858891<br><a href="http://www.baclcorp.com.cn">www.baclcorp.com.cn</a> |

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## GENERAL INFORMATION

### Product Description for Equipment Under Test (EUT)

|                                     |                |                                                                                                                                                                                                                                                         |
|-------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EUT Name:</b>                    |                | WiFi USB Extender Router                                                                                                                                                                                                                                |
| <b>EUT Model:</b>                   |                | R36A                                                                                                                                                                                                                                                    |
| <b>Multiple Models:</b>             |                | HoneyBee, R36A-AC, SecuPlus, WiTele4G, WISP-Q2, N2Qplus, N2Q1, Unity4G, R36AH, WiFi CampPor 2, WiFi CampPro 2+, 4G CampPor 2, 4G CampPro 2+, WiTouch Pro, WiTou Pro, WiMo, WiMo plus, Surfi, WiMo Pro, MeshTouch-Q, MeshTouch-R, MeshTouch-M, CC Vector |
| <b>FCC ID:</b>                      |                | 2AB879531                                                                                                                                                                                                                                               |
| <b>Highest Operation Frequency:</b> |                | 2462 MHz                                                                                                                                                                                                                                                |
| <b>Rated Input Voltage:</b>         |                | DC12V from AC/DC adapter or DC 12V from PoE Adapter                                                                                                                                                                                                     |
| <b>Nominal Adapter Information</b>  | <b>Model:</b>  | MAUS-120100Y-D-15                                                                                                                                                                                                                                       |
|                                     | <b>Input:</b>  | 100-240VAC                                                                                                                                                                                                                                              |
|                                     | <b>Output:</b> | 12VDC                                                                                                                                                                                                                                                   |
| <b>External Dimension:</b>          |                | 99mm(L)*73mm(W)*27mm(H)                                                                                                                                                                                                                                 |
| <b>Serial Number:</b>               |                | 180925011                                                                                                                                                                                                                                               |
| <b>EUT Received Date:</b>           |                | 2018.09.27                                                                                                                                                                                                                                              |

*Note: The series product, HoneyBee, R36A-AC, SecuPlus, WiTele4G, WISP-Q2, N2Qplus, N2Q1, Unity4G, R36AH, WiFi CampPor 2, WiFi CampPro 2+, 4G CampPor 2, 4G CampPro 2+, WiTouch Pro, WiTou Pro, WiMo, WiMo plus, Surfi, WiMo Pro, MeshTouch-Q, MeshTouch-R, MeshTouch-M, CC Vector are electrically identical, The difference between them please refer to the declaration letter for details. For marketing purpose, we selected R36A for fully testing.*

### Objective

This test report is prepared on behalf of *Iconnect* In accordance with Part 2, Subpart J, and Part 15-Subparts A and B of the Federal Communications Commission's rules.

The objective of the manufacturer is to determine the compliance of EUT with FCC Part 15 B Class B.

### Related Submittal(s)/Grant(s)

FCC Part 15C DTS submissions with FCC ID: 2AB879531.

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Dongguan).

**Measurement Uncertainty**

| Parameter                         | Measurement Uncertainty                                                                                              |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Unwanted Emissions, radiated      | 30M~200MHz: 4.55 dB, 200M~1GHz: 5.92 dB, 1G~6GHz: 4.98 dB, 6G~18GHz: 5.89 dB, 18G~26.5G: 5.47 dB, 26.5G~40G: 5.63 dB |
| Temperature                       | ±1 °C                                                                                                                |
| Humidity                          | ±5%                                                                                                                  |
| AC Power Lines Conducted Emission | 3.12 dB (150 kHz to 30 MHz)                                                                                          |

**Test Facility**

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218, the FCC Designation No. : CN1220.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062D.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

The system was configured for testing in normal use mode.

### Equipment Modifications

No modification was made to the EUT.

### EUT Exercise Software

TFGen.exe was used in test.

### Support Equipment List and Details

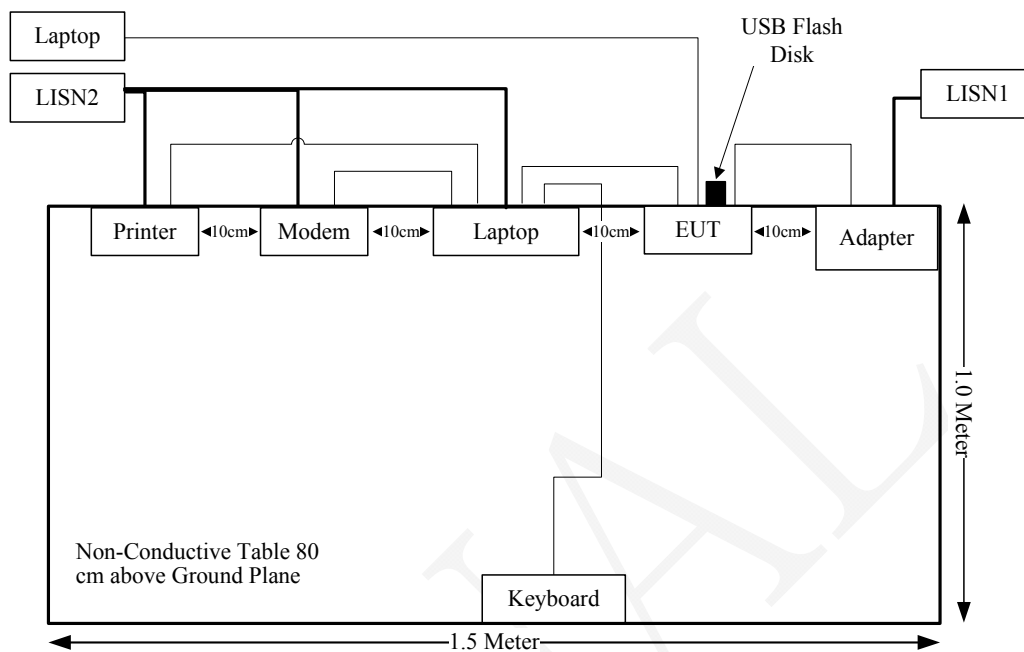
| Manufacturer | Description    | Model          | Serial Number        |
|--------------|----------------|----------------|----------------------|
| DELL         | Laptop         | PP11L          | QDS-BRCM1017         |
| HP           | Printer        | C3941A         | JPTVOB2337           |
| DELL         | Keyboard       | L100           | CNORH656658907BL05DC |
| SAST         | Modem          | AEM-2100       | 293                  |
| DELL         | Laptop         | PP11L          | QDS-BRCM121          |
| Kinston      | USB Flash Disk | 4G             | 0045                 |
| Sunydeal     | PoE Adapter    | BLL107-24W-12V | /                    |

### Support Cable List and Details

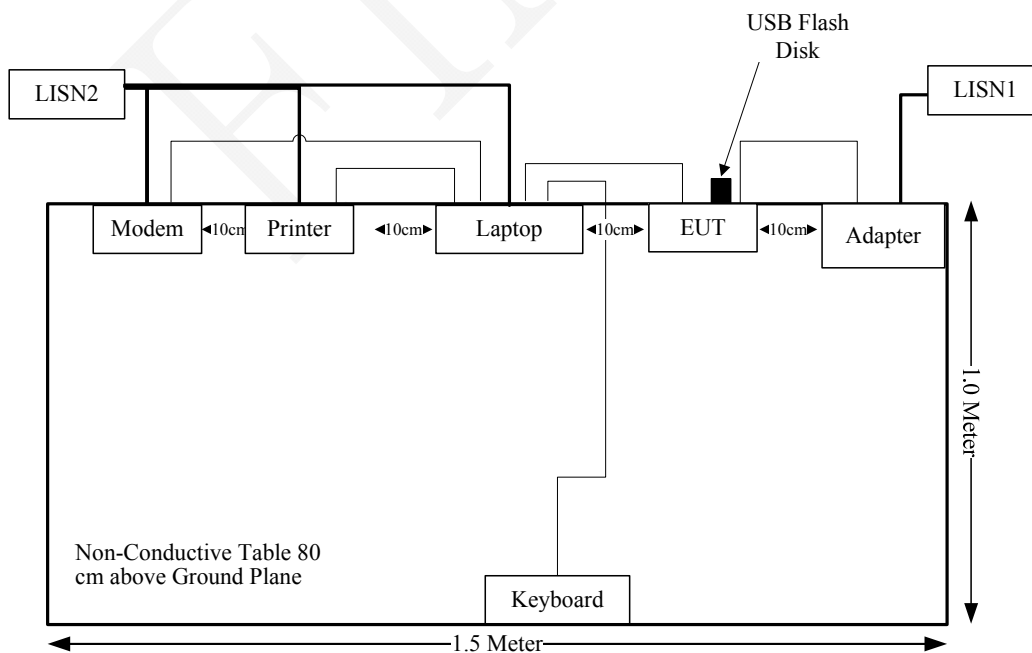
| Cable Description | Shielding Cable | Ferrite Core | Length (m) | From Port               | To       |
|-------------------|-----------------|--------------|------------|-------------------------|----------|
| Parallel Cable    | yes             | No           | 1.2        | Parallel Port of Laptop | Printer  |
| Serial Cable      | yes             | No           | 1.2        | Serial port of Laptop   | Modem    |
| Keyboard Cable    | yes             | No           | 1.8        | USB port of Laptop      | Keyboard |
| RJ45 Cable        | yes             | No           | 1.0        | RJ45 port of Laptop     | EUT      |
| RJ45 Cable        | yes             | No           | 10         | EUT                     | Laptop   |
| DC Pwoer Cable    | No              | No           | 1.0        | Adapter                 | EUT      |
| RJ45 Cable        | yes             | No           | 1.0        | PoE adapter             | EUT      |

## Configuration of Test Setup

AC/DC Adapter:



PoE Adapter:



**Test Equipment List**

| Manufacturer   | Description        | Model                  | Serial Number | Calibration Date | Calibration Due Date |
|----------------|--------------------|------------------------|---------------|------------------|----------------------|
| R&S            | EMI Test Receiver  | ESCS 30                | 830245/006    | 2017-12-11       | 2018-12-11           |
| Unknown        | Coaxial Cable      | C-NJNJ-50              | C-0200-01     | 2018-09-05       | 2019-09-05           |
| R&S            | Test Software      | EMC32                  | Version8.53.0 | N/A              | N/A                  |
| R&S            | Two-line V-network | ENV 216                | 101614        | 2017-12-08       | 2018-12-08           |
| R&S            | EMI Test Receiver  | ESCI                   | 100224        | 2017-12-11       | 2018-12-11           |
| Farad          | Test Software      | EZ-EMC                 | V1.1.4.2      | N/A              | N/A                  |
| Sunol Sciences | Antenna            | JB3                    | A060611-1     | 2017-11-10       | 2020-11-10           |
| Unknown        | Coaxial Cable      | C-NJNJ-50              | C-0400-01     | 2018-09-05       | 2019-09-05           |
| Unknown        | Coaxial Cable      | C-NJNJ-50              | C-0075-01     | 2018-09-05       | 2019-09-05           |
| Unknown        | Coaxial Cable      | C-NJNJ-50              | C-1000-01     | 2018-09-05       | 2019-09-05           |
| HP             | Amplifier          | 8447D                  | 2727A05902    | 2018-09-05       | 2019-09-05           |
| Agilent        | Spectrum Analyzer  | E4440A                 | SG43360054    | 2018-01-04       | 2019-01-04           |
| ETS-Lindgren   | Horn Antenna       | 3115                   | 000 527 35    | 2016-01-05       | 2019-01-04           |
| Unknown        | Coaxial Cable      | C-SJSJ-50              | C-0800-01     | 2018-09-05       | 2019-09-05           |
| MITEQ          | Amplifier          | AFS42-00101800-25-S-42 | 2001271       | 2018-09-05       | 2019-09-05           |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Environmental Conditions**

|                           |                                |
|---------------------------|--------------------------------|
| <b>Temperature:</b>       | 24.6~26.4 °C                   |
| <b>Relative Humidity:</b> | 34~52 %                        |
| <b>ATM Pressure:</b>      | 100.4~100.5 kPa                |
| <b>Tester:</b>            | Vern Shen, Tyler Pan, Lily Xie |
| <b>Test Date:</b>         | 2018.10.12-2018.10.16          |

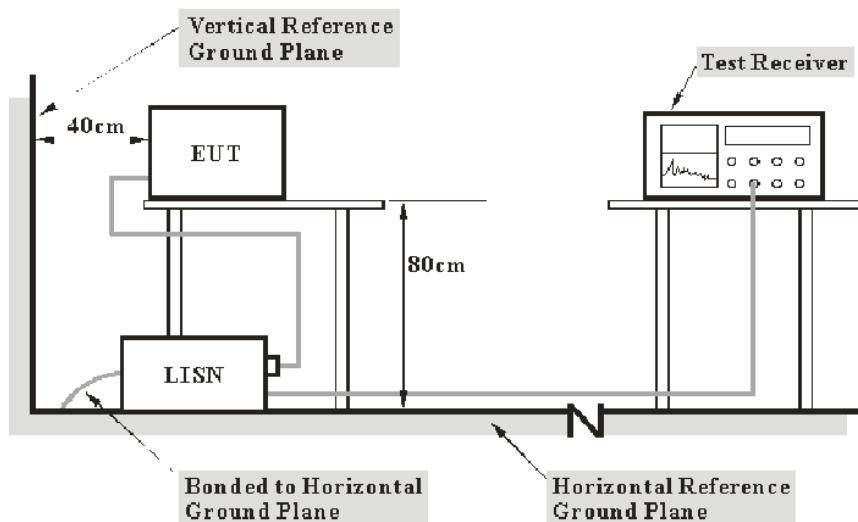
SUMARY OF TEST RESULTS

FCC Part 15B

| Clause  | Description of Test | Test Result |
|---------|---------------------|-------------|
| §15.107 | Conducted emissions | Compliance  |
| §15.109 | Radiated emissions  | Compliance  |

## FCC Part 15B §15.107 – CONDUCTED EMISSIONS

### EUT Setup



- Note: 1. Support units were connected to second LISN.  
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15 B Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

### EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range  | IF B/W |
|------------------|--------|
| 150 kHz – 30 MHz | 9 kHz  |

### Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

**Corrected Amplitude & Margin Calculation**

The basic equation is as follows:

Result (QuasiPeak or Average) = Meter Reading + Corr.

Note:

Corr. = Cable loss + Factor of coupling device

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

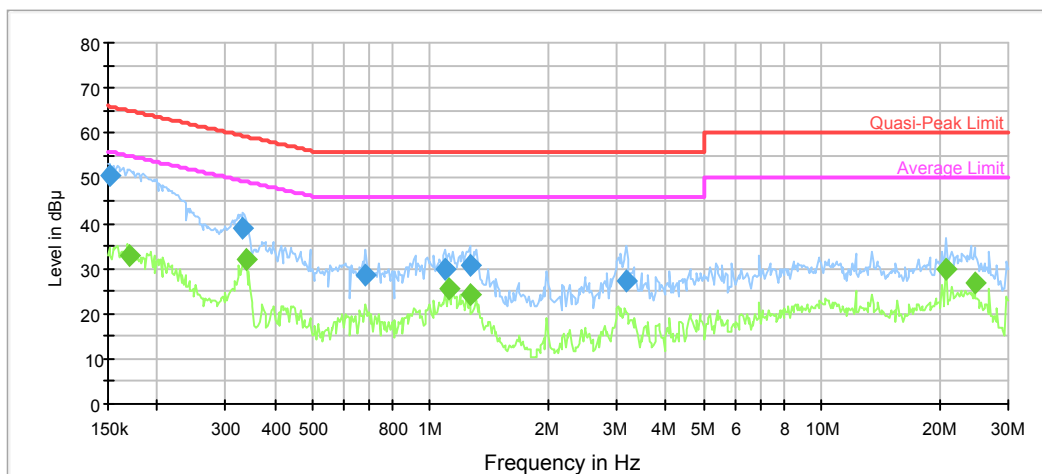
Margin = Limit – Result

FINAL

## Test Data

Please refer to following table and plots:

Model Number: R36A  
Port: L  
Test Mode: Operating(AC/DC Adapter)  
Power Source: AC 120V/60Hz



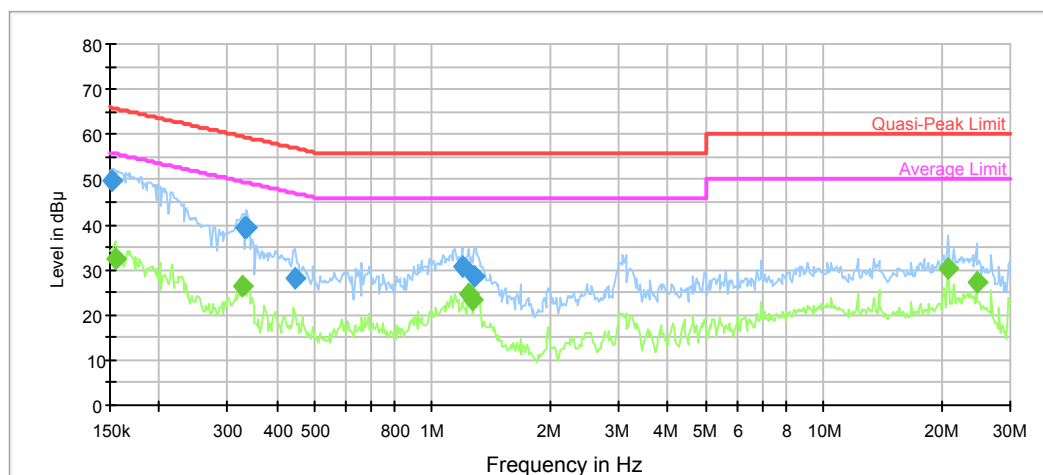
## Final Result 1

| Frequency (MHz) | QuasiPeak (dBμV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|-----------------|------|------------|-------------|--------------|
| 0.151200        | 50.4             | 9.000           | L1   | 11.2       | 15.5        | 65.9         |
| 0.332770        | 38.9             | 9.000           | L1   | 10.1       | 20.5        | 59.4         |
| 0.681699        | 28.6             | 9.000           | L1   | 9.8        | 27.4        | 56.0         |
| 1.090848        | 29.9             | 9.000           | L1   | 9.8        | 26.1        | 56.0         |
| 1.259081        | 30.8             | 9.000           | L1   | 9.8        | 25.2        | 56.0         |
| 3.173039        | 27.4             | 9.000           | L1   | 9.8        | 28.6        | 56.0         |

## Final Result 2

| Frequency (MHz) | Average (dBμV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|-----------------|------|------------|-------------|--------------|
| 0.170396        | 33.0           | 9.000           | L1   | 10.9       | 21.9        | 54.9         |
| 0.338116        | 31.9           | 9.000           | L1   | 10.1       | 17.3        | 49.2         |
| 1.117238        | 25.4           | 9.000           | L1   | 9.8        | 20.6        | 46.0         |
| 1.259081        | 24.2           | 9.000           | L1   | 9.8        | 21.8        | 46.0         |
| 20.804674       | 29.8           | 9.000           | L1   | 10.1       | 20.2        | 50.0         |
| 24.594166       | 27.0           | 9.000           | L1   | 10.1       | 23.0        | 50.0         |

Model Number: R36A  
Port: N  
Test Mode: Operating(AC/DC Adapter)  
Power Source: AC 120V/60Hz



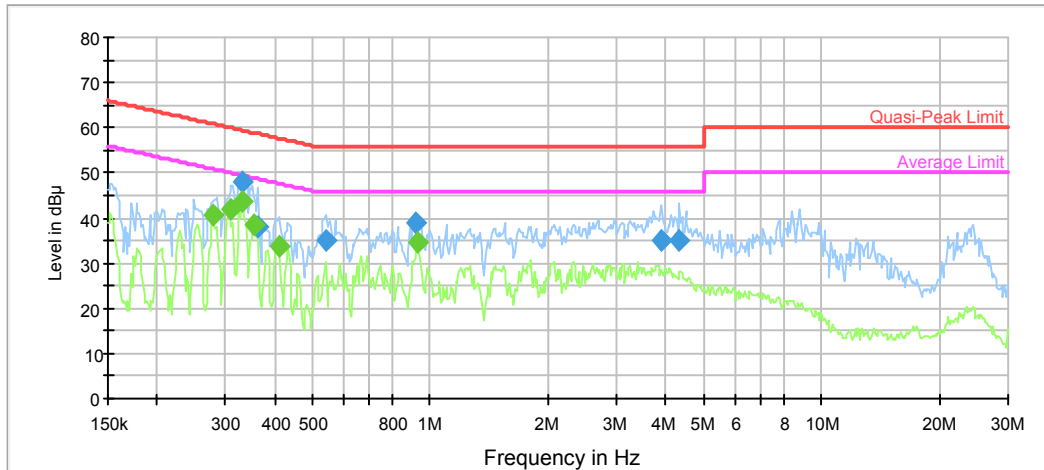
## Final Result 1

| Frequency (MHz) | QuasiPeak (dBμV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|-----------------|------|------------|-------------|--------------|
| 0.152410        | 49.5             | 9.000           | N    | 11.1       | 16.4        | 65.9         |
| 0.330129        | 39.4             | 9.000           | N    | 10.1       | 20.0        | 59.4         |
| 0.335433        | 39.2             | 9.000           | N    | 10.1       | 20.1        | 59.3         |
| 0.446873        | 28.3             | 9.000           | N    | 9.9        | 28.6        | 56.9         |
| 1.190776        | 30.7             | 9.000           | N    | 9.8        | 25.3        | 56.0         |
| 1.279307        | 28.3             | 9.000           | N    | 9.8        | 27.7        | 56.0         |

## Final Result 2

| Frequency (MHz) | Average (dBμV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|-----------------|------|------------|-------------|--------------|
| 0.154858        | 32.4           | 9.000           | N    | 11.1       | 23.3        | 55.7         |
| 0.327509        | 26.2           | 9.000           | N    | 10.1       | 23.3        | 49.5         |
| 1.239175        | 24.6           | 9.000           | N    | 9.8        | 21.4        | 46.0         |
| 1.259081        | 23.1           | 9.000           | N    | 9.8        | 22.9        | 46.0         |
| 20.804674       | 30.4           | 9.000           | N    | 10.0       | 19.6        | 50.0         |
| 24.594166       | 27.3           | 9.000           | N    | 10.1       | 22.7        | 50.0         |

Model Number: R36A  
Port: L  
Test Mode: Operating(PoE Adapter)  
Power Source: AC 120V/60Hz



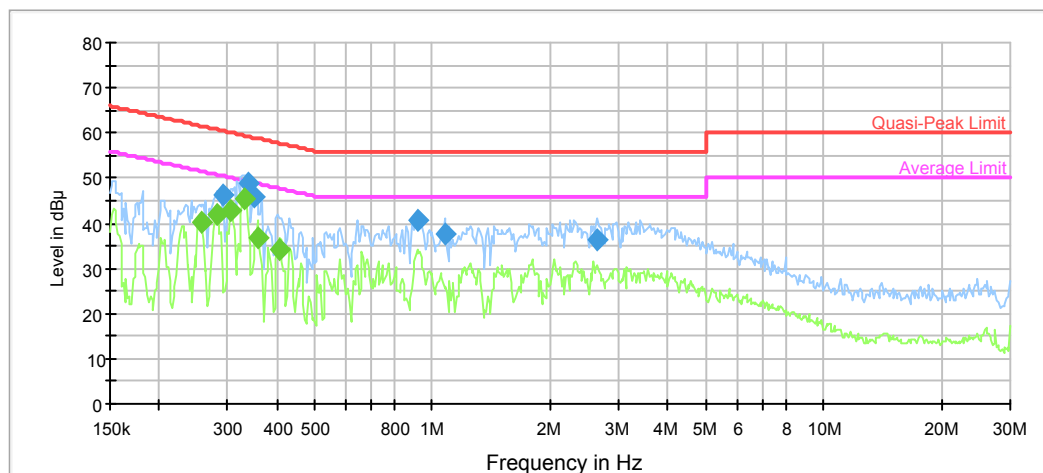
### Final Result 1

| Frequency (MHz) | QuasiPeak (dBμV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|-----------------|------|------------|-------------|--------------|
| 0.332770        | 48.1             | 9.000           | L1   | 10.1       | 11.3        | 59.4         |
| 0.363254        | 38.0             | 9.000           | L1   | 10.0       | 20.7        | 58.7         |
| 0.541050        | 35.0             | 9.000           | L1   | 9.9        | 21.0        | 56.0         |
| 0.915445        | 39.0             | 9.000           | L1   | 9.8        | 17.0        | 56.0         |
| 3.903455        | 35.1             | 9.000           | L1   | 9.8        | 20.9        | 56.0         |
| 4.329484        | 34.8             | 9.000           | L1   | 9.8        | 21.2        | 56.0         |

### Final Result 2

| Frequency (MHz) | Average (dBμV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|-----------------|------|------------|-------------|--------------|
| 0.279263        | 40.6           | 9.000           | L1   | 10.2       | 10.3        | 50.8         |
| 0.307284        | 42.0           | 9.000           | L1   | 10.1       | 8.0         | 50.0         |
| 0.330129        | 43.5           | 9.000           | L1   | 10.1       | 6.0         | 49.4         |
| 0.354674        | 38.4           | 9.000           | L1   | 10.0       | 10.5        | 48.9         |
| 0.409372        | 33.8           | 9.000           | L1   | 10.0       | 13.9        | 47.7         |
| 0.930151        | 34.7           | 9.000           | L1   | 9.8        | 11.3        | 46.0         |

Model Number: R36A  
Port: N  
Test Mode: Operating(PoE Adapter)  
Power Source: AC 120V/60Hz



## Final Result 1

| Frequency (MHz) | QuasiPeak (dBμV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|-----------------|------|------------|-------------|--------------|
| 0.292938        | 46.2             | 9.000           | N    | 10.2       | 14.2        | 60.4         |
| 0.338116        | 48.7             | 9.000           | N    | 10.1       | 10.6        | 59.2         |
| 0.349066        | 45.9             | 9.000           | N    | 10.0       | 13.1        | 59.0         |
| 0.915445        | 40.7             | 9.000           | N    | 9.8        | 15.3        | 56.0         |
| 1.073601        | 37.8             | 9.000           | N    | 9.8        | 18.2        | 56.0         |
| 2.641698        | 36.2             | 9.000           | N    | 9.8        | 19.8        | 56.0         |

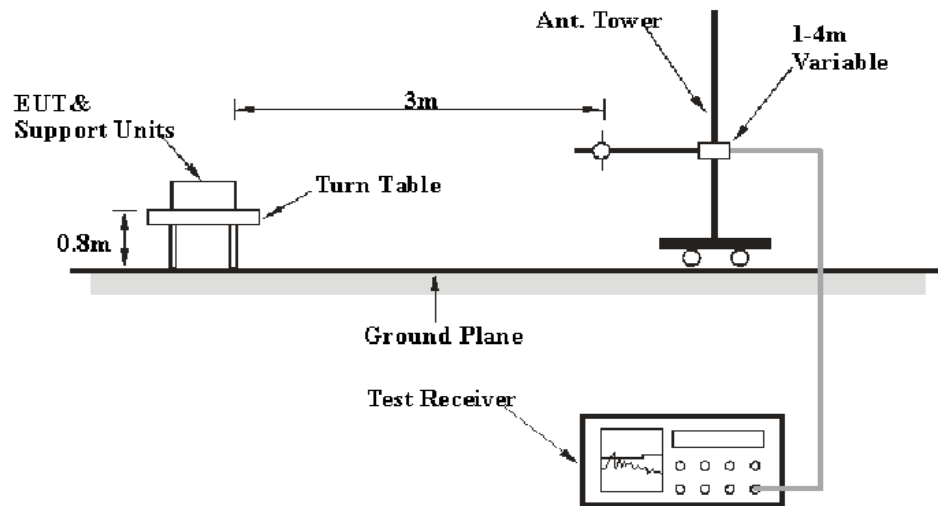
## Final Result 2

| Frequency (MHz) | Average (dBμV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|-----------------|------|------------|-------------|--------------|
| 0.255827        | 40.2           | 9.000           | N    | 10.3       | 11.4        | 51.6         |
| 0.281497        | 41.8           | 9.000           | N    | 10.2       | 8.9         | 50.8         |
| 0.304845        | 43.0           | 9.000           | N    | 10.1       | 7.1         | 50.1         |
| 0.330129        | 45.6           | 9.000           | N    | 10.1       | 3.8         | 49.4         |
| 0.357511        | 36.9           | 9.000           | N    | 10.0       | 11.9        | 48.8         |
| 0.406123        | 34.3           | 9.000           | N    | 10.0       | 13.5        | 47.7         |

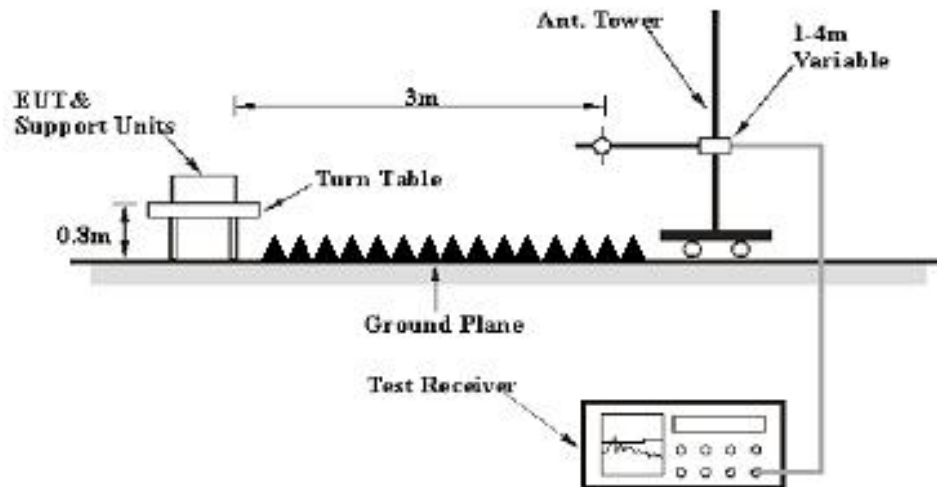
## FCC §15.109 - RADIATED SPURIOUS EMISSIONS

### EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed at the 3 meters distance, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class B limits.

## EMI Test Receiver Setup

The system was investigated from 30 MHz to 13 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

| Frequency Range   | RBW     | Video B/W | IF B/W  | Measurement |
|-------------------|---------|-----------|---------|-------------|
| 30 MHz – 1000 MHz | 120 kHz | 300 kHz   | 120 kHz | QP          |
| Above 1 GHz       | 1 MHz   | 3 MHz     | /       | Peak        |
|                   | 1 MHz   | 10Hz      | /       | AVG         |

## Test Procedure

During the radiated emissions, the adapter was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The data was recorded in the Quasi-peak detection mode for below 1 GHz, peak and average detection mode above 1 GHz.

All emissions under the average limit and under the noise floor have not recorded in the report.

## Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Meter Reading+ Corrected

Note:

Corrected = Antenna Factor + Cable Loss - Amplifier Gain

or

Corrected = Antenna Factor + Cable Loss + Insertion loss of attenuator - Amplifier Gain

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

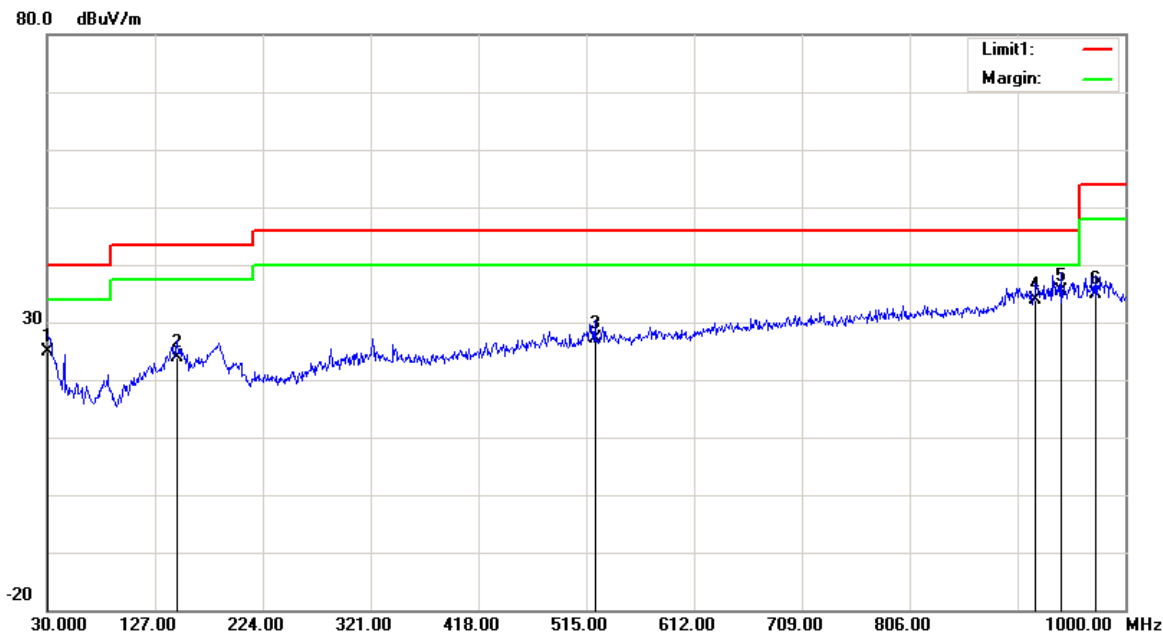
$$\text{Margin} = \text{Limit} - \text{Result}$$

**Test Data**

Please refer to following table and plots:

**Condition:** FCC Class B 3M Radiation  
**EUT:** WiFi USB Extender Router  
**Model:** R36A  
**Test Mode:** Operating(AC/DC adapter)

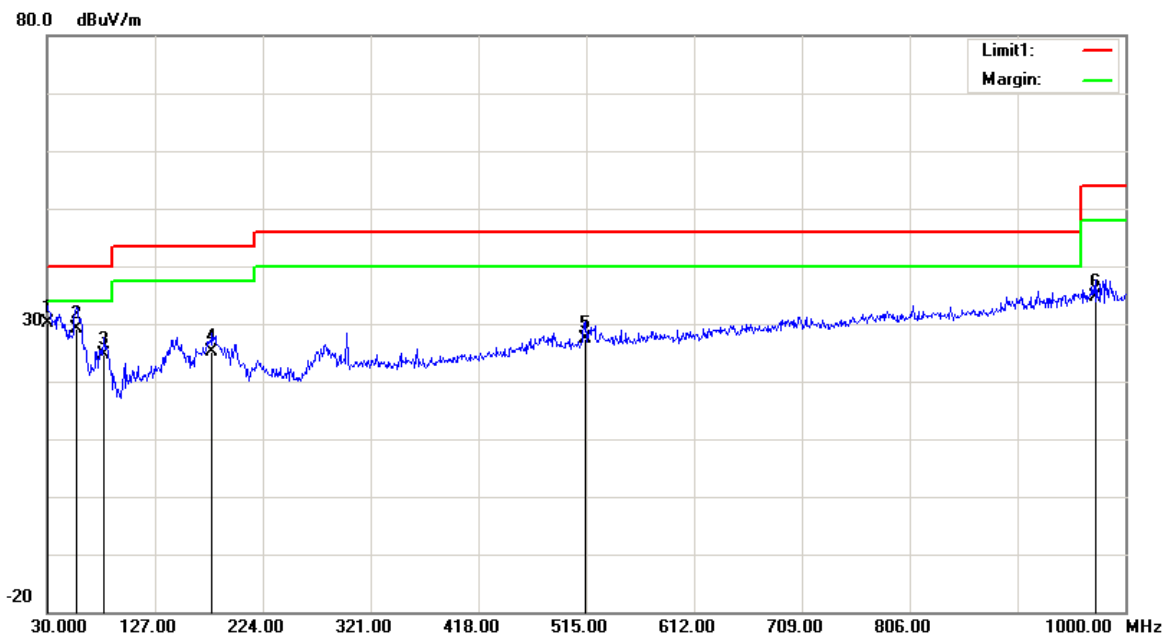
**Polarization:** Horizontal  
**Power:** AC 120V/60Hz  
**Distance:** 3m



| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Detector | Corrected<br>dB/m | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|-----|--------------------|-------------------|----------|-------------------|--------------------|-------------------|----------------|
| 1   | 30.0000            | 23.36             | QP       | 1.54              | 24.90              | 40.00             | 15.10          |
| 2   | 146.4000           | 29.80             | QP       | -6.00             | 23.80              | 43.50             | 19.70          |
| 3   | 522.7600           | 26.79             | QP       | 0.41              | 27.20              | 46.00             | 18.80          |
| 4   | 919.4900           | 37.51             | QP       | -3.71             | 33.80              | 46.00             | 12.20          |
| 5   | 941.8000           | 38.91             | QP       | -3.41             | 35.50              | 46.00             | 10.50          |
| 6   | 973.8100           | 12.00             | QP       | 23.00             | 35.00              | 54.00             | 19.00          |

**Condition:** FCC Class B 3M Radiation  
**EUT:** WiFi USB Extender Router  
**Model:** R36A  
**Test Mode:** Operating(AC/DC adapter)

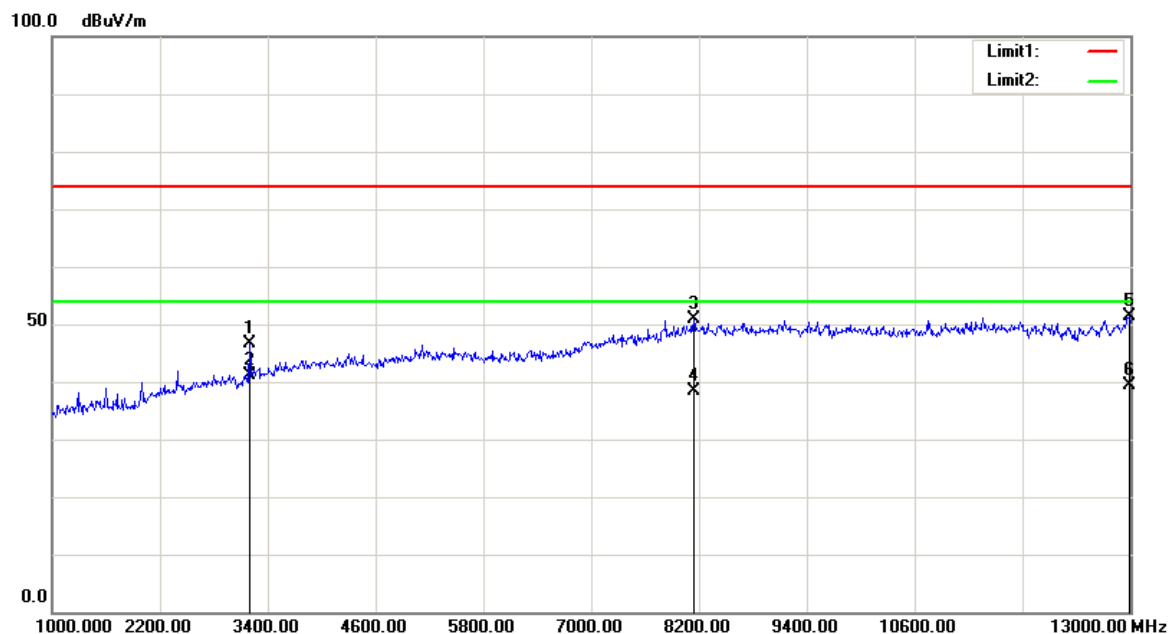
**Polarization:** Vertical  
**Power:** AC 120V/60Hz  
**Distance:** 3m



| No. | Frequency<br>(MHz) | Reading<br>(dB $\mu$ V) | Detector | Corrected<br>dB/m | Result<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) | Margin<br>(dB) |
|-----|--------------------|-------------------------|----------|-------------------|--------------------------|-------------------------|----------------|
| 1   | 30.0000            | 28.56                   | QP       | 1.54              | 30.10                    | 40.00                   | 9.90           |
| 2   | 56.1900            | 41.30                   | QP       | -12.20            | 29.10                    | 40.00                   | 10.90          |
| 3   | 81.4100            | 36.01                   | QP       | -11.31            | 24.70                    | 40.00                   | 15.30          |
| 4   | 178.4100           | 32.27                   | QP       | -7.07             | 25.20                    | 43.50                   | 18.30          |
| 5   | 514.0300           | 27.30                   | QP       | 0.00              | 27.30                    | 46.00                   | 18.70          |
| 6   | 973.8100           | 11.70                   | QP       | 23.00             | 34.70                    | 54.00                   | 19.30          |

**Condition:** FCC Part 15 Class B  
**EUT:** WiFi USB Extender Router  
**Model:** R36A  
**Test Mode:** Operating(AC/DC adapter)

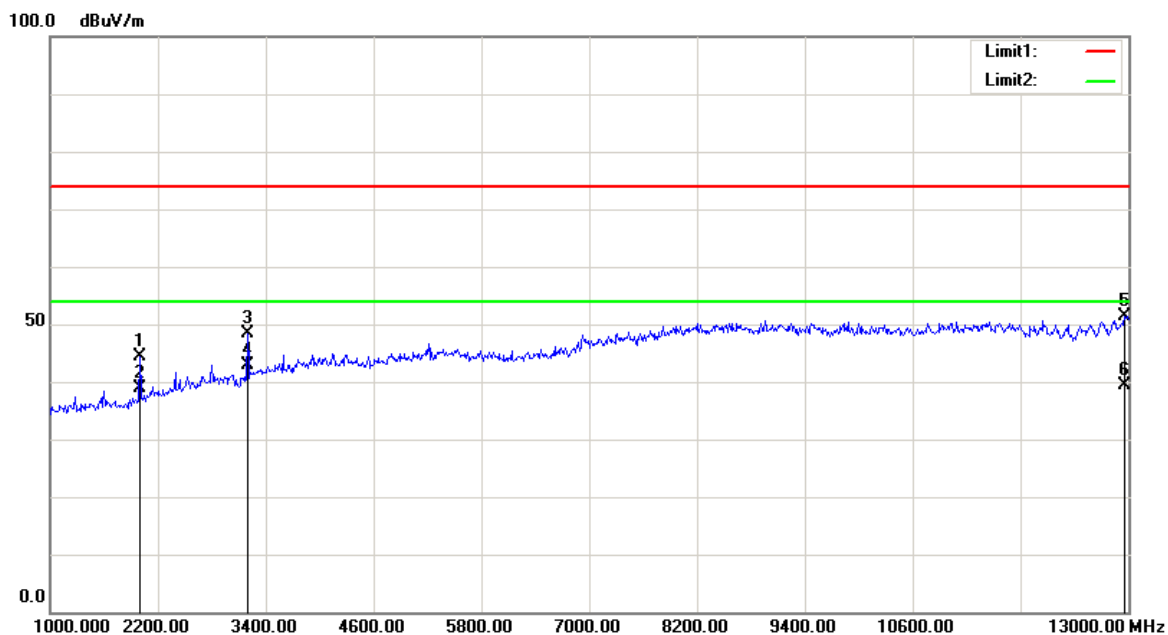
**Polarization:** Horizontal  
**Power:** AC 120V/60Hz  
**Distance:** 3m



| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Detector | Corrected<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|-----|--------------------|-------------------|----------|---------------------|--------------------|-------------------|----------------|
| 1   | 3200.000           | 50.90             | peak     | -4.21               | 46.69              | 74.00             | 27.31          |
| 2   | 3200.000           | 45.36             | AVG      | -4.21               | 41.15              | 54.00             | 12.85          |
| 3   | 8146.000           | 45.84             | peak     | 5.02                | 50.86              | 74.00             | 23.14          |
| 4   | 8146.000           | 33.45             | AVG      | 5.02                | 38.47              | 54.00             | 15.53          |
| 5   | 12994.000          | 43.01             | peak     | 8.36                | 51.37              | 74.00             | 22.63          |
| 6   | 12994.000          | 31.02             | AVG      | 8.36                | 39.38              | 54.00             | 14.62          |

**Condition:** FCC Part 15 Class B  
**EUT:** WiFi USB Extender Router  
**Model:** R36A  
**Test Mode:** Operating(AC/DC adapter)

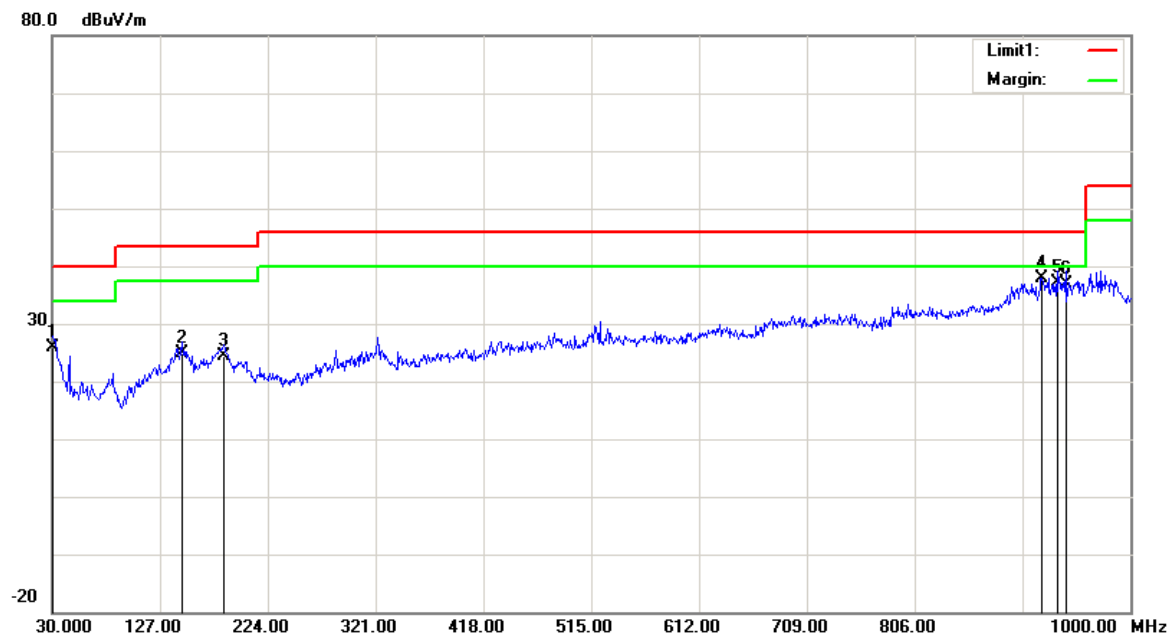
**Polarization:** Vertical  
**Power:** AC 120V/60Hz  
**Distance:** 3m



| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Detector | Corrected<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|-----|--------------------|-------------------|----------|---------------------|--------------------|-------------------|----------------|
| 1   | 2002.000           | 51.59             | peak     | -7.18               | 44.41              | 74.00             | 29.59          |
| 2   | 2002.000           | 46.11             | AVG      | -7.18               | 38.93              | 54.00             | 15.07          |
| 3   | 3202.000           | 52.65             | peak     | -4.21               | 48.44              | 74.00             | 25.56          |
| 4   | 3202.000           | 47.12             | AVG      | -4.21               | 42.91              | 54.00             | 11.09          |
| 5   | 12970.000          | 43.14             | peak     | 8.31                | 51.45              | 74.00             | 22.55          |
| 6   | 12970.000          | 31.01             | AVG      | 8.31                | 39.32              | 54.00             | 14.68          |

**Condition:** FCC Class B 3M Radiation  
**EUT:** WiFi USB Extender Router  
**Model:** R36A  
**Test Mode:** Operating(PoE adapter)

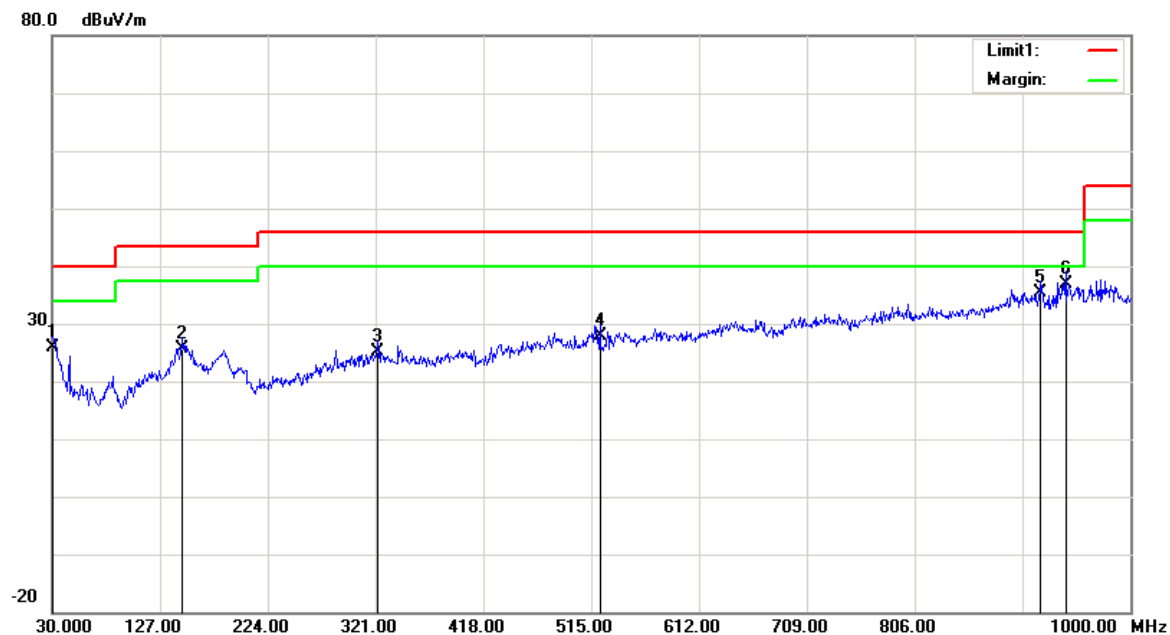
**Polarization:** Horizontal  
**Power:** AC 120V/60Hz  
**Distance:** 3m



| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Detector | Corrected<br>dB/m | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|-----|--------------------|-------------------|----------|-------------------|--------------------|-------------------|----------------|
| 1   | 30.0000            | 24.40             | QP       | 1.54              | 25.94              | 40.00             | 14.06          |
| 2   | 146.4000           | 30.86             | QP       | -6.00             | 24.86              | 43.50             | 18.64          |
| 3   | 184.2300           | 31.63             | QP       | -7.31             | 24.32              | 43.50             | 19.18          |
| 4   | 920.4600           | 41.56             | QP       | -3.69             | 37.87              | 46.00             | 8.13           |
| 5   | 934.0400           | 40.54             | QP       | -3.43             | 37.11              | 46.00             | 8.89           |
| 6   | 941.8000           | 40.41             | QP       | -3.41             | 37.00              | 46.00             | 9.00           |

**Condition:** FCC Class B 3M Radiation  
**EUT:** WiFi USB Extender Router  
**Model:** R36A  
**Test Mode:** Operating(PoE adapter)

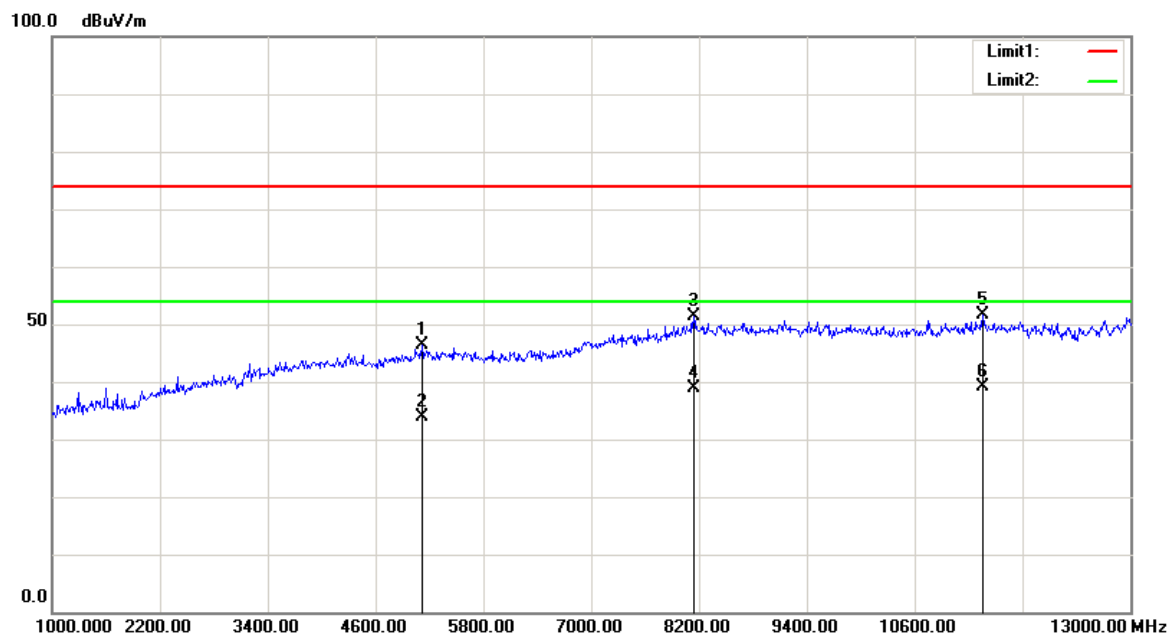
**Polarization:** Vertical  
**Power:** AC 120V/60Hz  
**Distance:** 3m



| No. | Frequency<br>(MHz) | Reading<br>(dB $\mu$ V) | Detector | Corrected<br>dB/m | Result<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) | Margin<br>(dB) |
|-----|--------------------|-------------------------|----------|-------------------|--------------------------|-------------------------|----------------|
| 1   | 30.0000            | 24.40                   | QP       | 1.54              | 25.94                    | 40.00                   | 14.06          |
| 2   | 147.3700           | 31.63                   | QP       | -6.01             | 25.62                    | 43.50                   | 17.88          |
| 3   | 322.9400           | 28.39                   | QP       | -3.32             | 25.07                    | 46.00                   | 20.93          |
| 4   | 522.7600           | 27.37                   | QP       | 0.41              | 27.78                    | 46.00                   | 18.22          |
| 5   | 919.4900           | 39.05                   | QP       | -3.71             | 35.34                    | 46.00                   | 10.66          |
| 6   | 941.8000           | 40.41                   | QP       | -3.41             | 37.00                    | 46.00                   | 9.00           |

**Condition:** FCC Class B 3M Radiation  
**EUT:** WiFi USB Extender Router  
**Model:** R36A  
**Test Mode:** Operating(PoE adapter)

**Polarization:** Horizontal  
**Power:** AC 120V/60Hz  
**Distance:** 3m

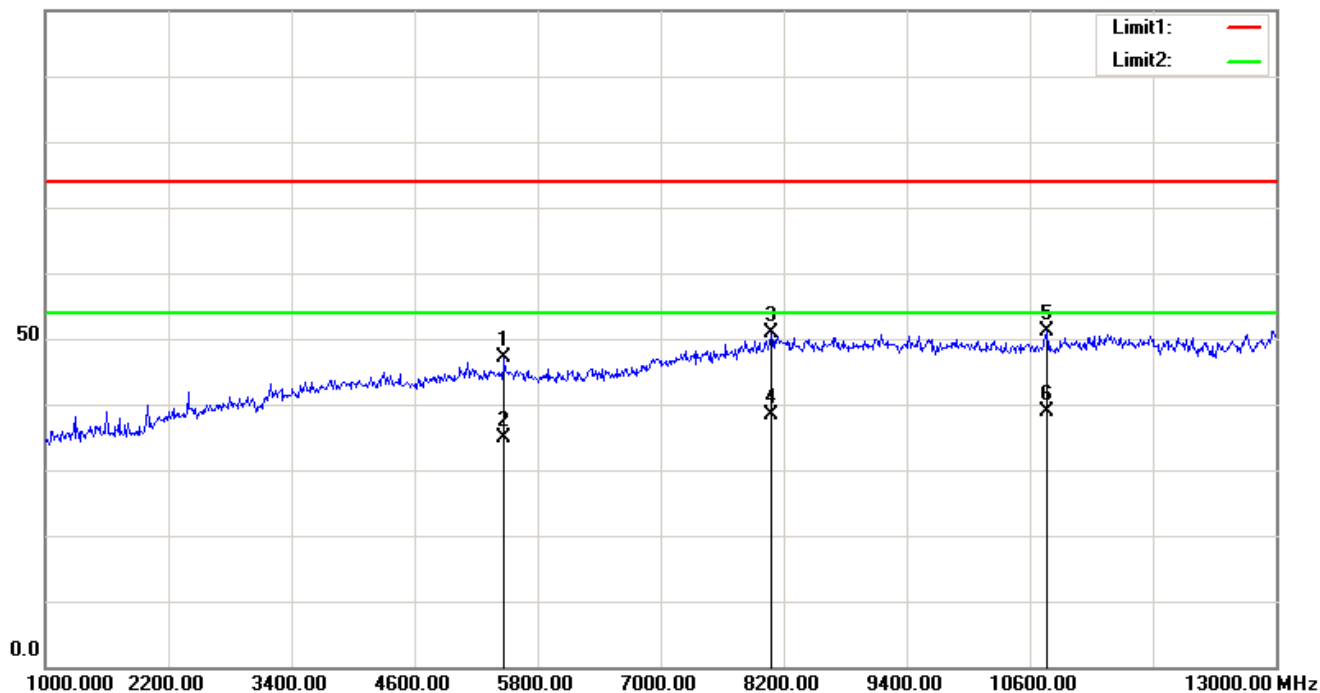


| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Detector | Corrected<br>dB/m | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|-----|--------------------|-------------------|----------|-------------------|--------------------|-------------------|----------------|
| 1   | 5122.000           | 46.63             | peak     | -0.32             | 46.31              | 74.00             | 27.69          |
| 2   | 5122.000           | 34.15             | AVG      | -0.32             | 33.83              | 54.00             | 20.17          |
| 3   | 8146.000           | 46.34             | peak     | 5.02              | 51.36              | 74.00             | 22.64          |
| 4   | 8146.000           | 33.76             | AVG      | 5.02              | 38.78              | 54.00             | 15.22          |
| 5   | 11356.000          | 43.40             | peak     | 8.17              | 51.57              | 74.00             | 22.43          |
| 6   | 11356.000          | 31.05             | AVG      | 8.17              | 39.22              | 54.00             | 14.78          |

**Condition:** FCC Class B 3M Radiation  
**EUT:** WiFi USB Extender Router  
**Model:** R36A  
**Test Mode:** Operating(PoE adapter)

**Polarization:** Vertical  
**Power:** AC 120V/60Hz  
**Distance:** 3m

100.0 dBuV/m



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Detector | Corrected<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) |
|-----|--------------------|-------------------|----------|-------------------|--------------------|-------------------|----------------|
| 1   | 5476.000           | 46.85             | peak     | 0.28              | 47.13              | 74.00             | 26.87          |
| 2   | 5476.000           | 34.50             | AVG      | 0.28              | 34.78              | 54.00             | 19.22          |
| 3   | 8086.000           | 45.88             | peak     | 4.94              | 50.82              | 74.00             | 23.18          |
| 4   | 8086.000           | 33.43             | AVG      | 4.94              | 38.37              | 54.00             | 15.63          |
| 5   | 10774.000          | 43.36             | peak     | 7.86              | 51.22              | 74.00             | 22.78          |
| 6   | 10774.000          | 30.98             | AVG      | 7.86              | 38.84              | 54.00             | 15.16          |

\*\*\*\*END OF REPORT\*\*\*\*