

# TEST REPORT

**Reference No.**..... : WTX25X08227971W001  
**FCC ID** ..... : 2AVJP-WSUSWF  
**Applicant** ..... : Hangzhou Sky-Lighting CO., Ltd.  
**Address** ..... : No.161 North Star-Bridge Road, Linping, Hangzhou, Zhejiang, 311100  
China  
**Manufacturer** ..... : The same as Applicant  
**Address** ..... : The same as Applicant  
**Product Name** ..... : SMART WIFI LIGHT SWITCH  
**Model No.**..... : WSUS-WF03  
**Standards** ..... : FCC Part 15.247  
**Date of Receipt sample** .... : 2025-08-25  
**Date of Test**..... : 2025-08-25 to 2025-09-10  
**Date of Issue** ..... : 2025-09-10  
**Test Report Form No.** ..... : WTX\_Part 15\_247W  
**Test Result**..... : **Pass**

**Remarks:**

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

**Prepared By:**

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## **TABLE OF CONTENTS**

|                                                              |           |
|--------------------------------------------------------------|-----------|
| <b>1. GENERAL INFORMATION .....</b>                          | <b>4</b>  |
| 1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) ..... | 4         |
| 1.2 TEST STANDARDS.....                                      | 5         |
| 1.3 TEST METHODOLOGY .....                                   | 5         |
| 1.4 TEST FACILITY .....                                      | 5         |
| 1.5 EUT SETUP AND TEST MODE .....                            | 6         |
| 1.6 MEASUREMENT UNCERTAINTY .....                            | 7         |
| 1.7 TEST EQUIPMENT LIST AND DETAILS .....                    | 8         |
| <b>2. SUMMARY OF TEST RESULTS.....</b>                       | <b>12</b> |
| <b>3. ANTENNA REQUIREMENT.....</b>                           | <b>13</b> |
| 3.1 STANDARD APPLICABLE .....                                | 13        |
| 3.2 EVALUATION INFORMATION .....                             | 13        |
| <b>4. POWER SPECTRAL DENSITY.....</b>                        | <b>14</b> |
| 4.1 STANDARD APPLICABLE .....                                | 14        |
| 4.2 TEST SETUP BLOCK DIAGRAM .....                           | 14        |
| 4.3 TEST PROCEDURE.....                                      | 14        |
| 4.4 SUMMARY OF TEST RESULTS/PLOTS.....                       | 14        |
| <b>5. DTS BANDWIDTH .....</b>                                | <b>15</b> |
| 5.1 STANDARD APPLICABLE .....                                | 15        |
| 5.2 TEST SETUP BLOCK DIAGRAM .....                           | 15        |
| 5.3 TEST PROCEDURE.....                                      | 15        |
| 5.4 SUMMARY OF TEST RESULTS/PLOTS.....                       | 15        |
| <b>6. RF OUTPUT POWER.....</b>                               | <b>16</b> |
| 6.1 STANDARD APPLICABLE .....                                | 16        |
| 6.2 TEST SETUP BLOCK DIAGRAM .....                           | 16        |
| 6.3 TEST PROCEDURE.....                                      | 16        |
| 6.4 SUMMARY OF TEST RESULTS/PLOTS.....                       | 16        |
| <b>7. FIELD STRENGTH OF SPURIOUS EMISSIONS.....</b>          | <b>17</b> |
| 7.1 STANDARD APPLICABLE .....                                | 17        |
| 7.2 TEST PROCEDURE .....                                     | 17        |
| 7.3 CORRECTED AMPLITUDE & MARGIN CALCULATION.....            | 19        |
| 7.4 SUMMARY OF TEST RESULTS/PLOTS.....                       | 19        |
| <b>8. OUT OF BAND EMISSIONS .....</b>                        | <b>40</b> |
| 8.1 STANDARD APPLICABLE .....                                | 40        |
| 8.2 TEST PROCEDURE.....                                      | 40        |
| 8.3 SUMMARY OF TEST RESULTS/PLOTS.....                       | 41        |
| <b>9. CONDUCTED EMISSIONS .....</b>                          | <b>50</b> |
| 9.1 TEST PROCEDURE.....                                      | 50        |
| 9.2 BASIC TEST SETUP BLOCK DIAGRAM .....                     | 50        |
| 9.3 TEST RECEIVER SETUP .....                                | 50        |
| 9.4 SUMMARY OF TEST RESULTS/PLOTS.....                       | 50        |
| <b>APPENDIX SUMMARY .....</b>                                | <b>57</b> |
| <b>APPENDIX A.....</b>                                       | <b>58</b> |
| <b>APPENDIX B.....</b>                                       | <b>63</b> |
| <b>APPENDIX C.....</b>                                       | <b>68</b> |
| <b>APPENDIX D.....</b>                                       | <b>73</b> |
| <b>APPENDIX PHOTOGRAPHS.....</b>                             | <b>81</b> |

Report version

| Version No. | Date of issue | Description |
|-------------|---------------|-------------|
| Rev.00      | 2025-09-10    | Original    |
| /           | /             | /           |

## 1. GENERAL INFORMATION

---

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

| General Description of EUT                                                                                                                                                                                                                                                                   |                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Product Name:                                                                                                                                                                                                                                                                                | SMART WIFI LIGHT SWITCH |
| Trade Name:                                                                                                                                                                                                                                                                                  | /                       |
| Model No.:                                                                                                                                                                                                                                                                                   | WSUS-WF03               |
| Adding Model(s):                                                                                                                                                                                                                                                                             | WSUS-WF02, WSUS-WF01    |
| Rated Voltage:                                                                                                                                                                                                                                                                               | AC 120V                 |
| Power Adapter Model:                                                                                                                                                                                                                                                                         | /                       |
| <i>Note: The test data is gathered from a production sample provided by the manufacturer. The appearance of others models listed in the report is different from main-test model WSUS-WF03, but the circuit and the electronic construction do not change, declared by the manufacturer.</i> |                         |

| Technical Characteristics of EUT                                                                 |                                                                      |
|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Support Standards:                                                                               | 802.11b, 802.11g, 802.11n                                            |
| Frequency Range:                                                                                 | 2412-2462MHz for 802.11b/g/n(HT20)<br>2422-2452MHz for 802.11n(HT40) |
| RF Output Power:                                                                                 | 15.05dBm (Conducted)                                                 |
| Type of Modulation:                                                                              | CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM                                  |
| Quantity of Channels:                                                                            | 11 for 802.11b/g/n(HT20); 7 for 802.11n(HT40)                        |
| Channel Separation:                                                                              | 5MHz                                                                 |
| Type of Antenna:                                                                                 | PCB Antenna                                                          |
| Antenna Gain:                                                                                    | 2.21dBi                                                              |
| <i>Note The Antenna Gain is provided by the customer and can affect the validity of results.</i> |                                                                      |

## 1.2 Test Standards

The tests were performed according to following standards:

**FCC Rules Part 15.247:** Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

**558074 D01 15.247 Meas Guidance v05r02:** Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under section 15.247 of the FCC rules.

**ANSI C63.10-2020:** American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product, which results in lowering the emission, should be checked to ensure compliance has been maintained.

## 1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, KDB 558074 D01 15.247 Meas Guidance v05r02.

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

## 1.4 Test Facility

### Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

### FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

### Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A and the CAB identifier is CN0057.

## 1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

| Test Mode List |              |                                          |
|----------------|--------------|------------------------------------------|
| Test Mode      | Description  | Remark                                   |
| TM1            | 802.11b      | Low:2412MHz, Middle:2437MHz,High:2462MHz |
| TM2            | 802.11g      | Low:2412MHz, Middle:2437MHz,High:2462MHz |
| TM3            | 802.11n-HT20 | Low:2412MHz, Middle:2437MHz,High:2462MHz |
| TM4            | 802.11n-HT40 | Low:2422MHz, Middle:2437MHz,High:2452MHz |

| Test Conditions    |           |
|--------------------|-----------|
| Temperature:       | 22~25 °C  |
| Relative Humidity: | 45~75 %   |
| ATM Pressure:      | 1019 mbar |

| EUT Cable List and Details |            |                     |                        |
|----------------------------|------------|---------------------|------------------------|
| Cable Description          | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| /                          | /          | /                   | /                      |

| Special Cable List and Details |            |                     |                        |
|--------------------------------|------------|---------------------|------------------------|
| Cable Description              | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| AC Cable                       | 1.0        | Unshielded          | Without Ferrite        |

| Auxiliary Equipment List and Details |              |       |               |
|--------------------------------------|--------------|-------|---------------|
| Description                          | Manufacturer | Model | Serial Number |
| /                                    | /            | /     | /             |

## 1.6 Measurement Uncertainty

| Measurement uncertainty        |            |                    |
|--------------------------------|------------|--------------------|
| Parameter                      | Conditions | Uncertainty        |
| RF Output Power                | Conducted  | 0.57dB             |
| Occupied Bandwidth             | Conducted  | 0.015MHz           |
| Power Spectral Density         | Conducted  | 1.8dB              |
| Conducted Spurious Emission    | Conducted  | 2.17dB             |
| Conducted Emissions            | Conducted  | 9-150kHz, 3.74dB   |
|                                |            | 0.15-30MHz, 3.34dB |
| Transmitter Spurious Emissions | Radiated   | 30-200MHz, 4.52dB  |
|                                |            | 0.2-1GHz 5.56dB    |
|                                |            | 1-6GHz, 3.84dB     |
|                                |            | 6-18GHz, 3.92dB    |

**1.7 Test Equipment List and Details**

| Fixed asset Number                             | Description          | Manufacturer    | Model      | Serial No.     | Cal Date   | Due. Date  |
|------------------------------------------------|----------------------|-----------------|------------|----------------|------------|------------|
| WTXE1041A<br>1001                              | Communication Tester | Rohde & Schwarz | CMW500     | 148650         | 2025-02-23 | 2026-02-22 |
| WTXE1005A<br>1005                              | Spectrum Analyzer    | Agilent         | N9020A     | US471401<br>02 | 2025-02-23 | 2026-02-22 |
| WTXE1084A<br>1001                              | Spectrum Analyzer    | Agilent         | N9020A     | MY543205<br>48 | 2025-02-23 | 2026-02-22 |
| WTXE1004A<br>1-001                             | Spectrum Analyzer    | Rohde & Schwarz | FSP40      | 100612         | 2025-02-23 | 2026-02-22 |
| WTXE1103A<br>1003                              | Attenuator           | Pasternack      | PE4007-4   | /              | 2025-02-23 | 2026-02-22 |
| WTXE1003A<br>1-005                             | Coaxial Cable        | /               | 0M4RFC     | /              | 2025-02-23 | 2026-02-22 |
| <input type="checkbox"/> Chamber A: Below 1GHz |                      |                 |            |                |            |            |
| WTXE1005A<br>1003                              | Spectrum Analyzer    | Rohde & Schwarz | FSP30      | 836079/03<br>5 | 2025-02-23 | 2026-02-22 |
| WTXE1001A<br>1001                              | EMI Test Receiver    | Rohde & Schwarz | ESPI       | 101611         | 2025-02-23 | 2026-02-22 |
| WTXE1007A<br>1001                              | Amplifier            | HP              | 8447F      | 2805A034<br>75 | 2025-02-23 | 2026-02-22 |
| WTXE1010A<br>1007                              | Loop Antenna         | Schwarz beck    | FMZB 1516  | 9773           | 2024-02-26 | 2026-02-25 |
| WTXE1010A<br>1006                              | Broadband Antenna    | Schwarz beck    | VULB9163   | 9163-333       | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1032-1                            | Coaxial Cable        | /               | RC_6G-N-M  | /              | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1032-2                            | Coaxial Cable        | /               | RC_6G-N-M  | /              | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1032-3                            | Coaxial Cable        | /               | RC_6G-N-M  | /              | 2025-02-23 | 2026-02-22 |
| <input type="checkbox"/> Chamber A: Above 1GHz |                      |                 |            |                |            |            |
| WTXE1005A<br>1003                              | Spectrum Analyzer    | Rohde & Schwarz | FSP30      | 836079/03<br>5 | 2025-02-23 | 2026-02-22 |
| WTXE1001A<br>1001                              | EMI Test Receiver    | Rohde & Schwarz | ESPI       | 101611         | 2025-02-23 | 2026-02-22 |
| WTXE1065A<br>1001                              | Amplifier            | C&D             | PAP-1.0G18 | 14918          | 2025-02-23 | 2026-02-22 |
| WTXE1010A<br>1005                              | Horn Antenna         | ETS             | 3117       | 00086197       | 2025-02-23 | 2026-02-22 |

|                                                           |                                |                    |              |                |            |            |
|-----------------------------------------------------------|--------------------------------|--------------------|--------------|----------------|------------|------------|
| WTXE1010A<br>1010                                         | DRG Horn<br>Antenna            | A.H. SYSTEMS       | SAS-574      | 571            | 2024-03-17 | 2026-03-16 |
| WTXE1003A<br>1001                                         | Pre-amplifier                  | Schwarzbeck        | BBV 9721     | 9721-031       | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1033-1                                       | Coaxial Cable                  | /                  | C16-07-07    | /              | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1033-2                                       | Coaxial Cable                  | /                  | C16-07-07    | /              | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1033-3                                       | Coaxial Cable                  | /                  | C16-07-07    | /              | 2025-02-23 | 2026-02-22 |
| <input type="checkbox"/> Chamber B:Below 1GHz             |                                |                    |              |                |            |            |
| WTXE1010A<br>1006                                         | Trilog<br>Broadband<br>Antenna | Schwarz beck       | VULB9163(B)  | 9163-635       | 2024-03-17 | 2027-03-16 |
| WTXE1038A<br>1001                                         | Amplifier                      | Agilent            | 8447D        | 2944A104<br>57 | 2025-02-23 | 2026-02-22 |
| WTXE1001A<br>1002                                         | EMI Test<br>Receiver           | Rohde &<br>Schwarz | ESPI         | 101391         | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1031-1                                       | Coaxial Cable                  | /                  | 1.5MRFC-LWB3 | /              | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1031-2                                       | Coaxial Cable                  | /                  | RG 316       | /              | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1031-3                                       | Coaxial Cable                  | /                  | RG 316       | /              | 2025-02-23 | 2026-02-22 |
| <input checked="" type="checkbox"/> Chamber C:Below 1GHz  |                                |                    |              |                |            |            |
| WTXE1093A<br>1001                                         | EMI Test<br>Receiver           | Rohde &<br>Schwarz | ESIB 26      | 100401         | 2025-02-23 | 2026-02-22 |
| WTXE1010A<br>1013-1                                       | Trilog<br>Broadband<br>Antenna | Schwarz beck       | VULB 9168    | 1194           | 2024-04-18 | 2027-04-17 |
| WTXE1010A<br>1007                                         | Loop Antenna                   | Schwarz beck       | FMZB 1516    | 9773           | 2024-02-26 | 2026-02-25 |
| WTXE1007A<br>1002                                         | Amplifier                      | HP                 | 8447F        | 2944A038<br>69 | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1034-1                                       | Coaxial Cable                  | /                  | RC_6G-N-M    | /              | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1034-2                                       | Coaxial Cable                  | /                  | RC_6G-N-M    | /              | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1034-3                                       | Coaxial Cable                  | /                  | RC_6G-N-M    | /              | 2025-02-23 | 2026-02-22 |
| <input checked="" type="checkbox"/> Chamber C: Above 1GHz |                                |                    |              |                |            |            |
| WTXE1093A                                                 | EMI Test                       | Rohde &            | ESIB 26      | 100401         | 2025-02-23 | 2026-02-22 |

|                                                       |                      |                    |             |                 |            |            |
|-------------------------------------------------------|----------------------|--------------------|-------------|-----------------|------------|------------|
| 1001                                                  | Receiver             | Schwarz            |             |                 |            |            |
| WTXE1103A<br>1005                                     | Horn Antenna         | POAM               | RTF-118A    | 1820            | 2025-06-13 | 2027-06-12 |
| WTXE1103A<br>1006                                     | Amplifier            | Tonscend           | TAP01018050 | AP22E806<br>235 | 2025-02-23 | 2026-02-22 |
| WTXE1010A<br>1010                                     | DRG Horn<br>Antenna  | A.H. SYSTEMS       | SAS-574     | 571             | 2024-03-17 | 2026-03-16 |
| WTXE1003A<br>1001                                     | Pre-amplifier        | Schwarzbeck        | BBV 9721    | 9721-031        | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1035-1                                   | Coaxial Cable        | /                  | RC-18G-N-M  | /               | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1035-2                                   | Coaxial Cable        | /                  | RC-18G-N-M  | /               | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1035-3                                   | Coaxial Cable        | /                  | RC-18G-N-M  | /               | 2025-02-23 | 2026-02-22 |
| <input type="checkbox"/> Conducted Room 1#            |                      |                    |             |                 |            |            |
| WTXE1104A<br>1029                                     | EMI Test<br>Receiver | Rohde &<br>Schwarz | ESCI        | 100525          | 2024-12-08 | 2025-12-07 |
| WTXE1002A<br>1001                                     | Pulse Limiter        | Rohde &<br>Schwarz | ESH3-Z2     | 100911          | 2025-02-23 | 2026-02-22 |
| WTXE1003A<br>1001                                     | AC LISN              | Schwarz beck       | NSLK8126    | 8126-279        | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1036                                     | Coaxial Cable        | /                  | RG 316      | /               | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1038                                     | Coaxial Cable        | /                  | 6MRFC-DP    | /               | 2025-02-23 | 2026-02-22 |
| <input checked="" type="checkbox"/> Conducted Room 2# |                      |                    |             |                 |            |            |
| WTXE1001A<br>1004                                     | EMI Test<br>Receiver | Rohde &<br>Schwarz | ESPI        | 101259          | 2025-02-23 | 2026-02-22 |
| WTXE1003A<br>1003                                     | LISN                 | Rohde &<br>Schwarz | ENV 216     | 100097          | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1037                                     | Coaxial Cable        | /                  | RG 316      | /               | 2025-02-23 | 2026-02-22 |

| Software List                                        |              |        |                        |
|------------------------------------------------------|--------------|--------|------------------------|
| Description                                          | Manufacturer | Model  | Version                |
| EMI Test Software<br>(Radiated Emission A)           | Farad        | EZ-EMC | RA-03A1<br>(1.1.4.2)   |
| EMI Test Software<br>(Radiated Emission B)           | Farad        | EZ-EMC | RA-03A1<br>(1.1.4.2)   |
| EMI Test Software<br>(Radiated Emission C)           | Farad        | EZ-EMC | RA-03A1-2<br>(1.1.4.2) |
| EMI Test Software<br>(Conducted Emission Room<br>1#) | Farad        | EZ-EMC | 3A1*CE-RE<br>1.1.4.3   |
| EMI Test Software<br>(Conducted Emission Room<br>2#) | Farad        | EZ-EMC | 3A1*CE-RE<br>1.1.4.3   |

\*Remark: indicates software version used in the compliance certification testing.

## 2. SUMMARY OF TEST RESULTS

---

| FCC Rules                 | Description of Test Item          | Result    |
|---------------------------|-----------------------------------|-----------|
| §15.203; §15.247(b)(4)(i) | Antenna Requirement               | Compliant |
| §15.205                   | Restricted Band of Operation      | Compliant |
| §15.207(a)                | Conducted Emission                | Compliant |
| §15.247(e)                | Power Spectral Density            | Compliant |
| §15.247(a)(2)             | DTS Bandwidth                     | Compliant |
| §15.247(b)(3)             | RF Output Power                   | Compliant |
| §15.209(a)                | Radiated Emission                 | Compliant |
| §15.247(d)                | Band Edge (Out of Band Emissions) | Compliant |

N/A: Not applicable.

### **3. Antenna Requirement**

---

#### **3.1 Standard Applicable**

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

#### **3.2 Evaluation Information**

This product has a PCB antenna, fulfill the requirement of this section.

## 4. Power Spectral Density

---

### 4.1 Standard Applicable

According to 15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

### 4.2 Test Setup Block Diagram



### 4.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.4 and ANSI C63.10-2020 Subclause 11.10.3, such specifications require that the same method as used to determine the conducted output power shall also be used to determine the power spectral density. The test method of power spectral density as below:

- Set instrument center frequency to DTS channel center frequency.
- Set span to at least 1.5 times the OBW.
- Set RBW to:  $3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$ .
- Set VBW  $\geq 3 \times \text{RBW}$ .
- Detector = power averaging (RMS) or sample detector (when RMS not available).
- Ensure that the number of measurement points in the sweep  $\geq 2 \times \text{span}/\text{RBW}$ .
- Sweep time = auto couple.
- Employ trace averaging (RMS) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.
- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span in order to meet the minimum measurement point requirement as the RBW is reduced).

### 4.4 Summary of Test Results/Plots

Please refer to Appendix A

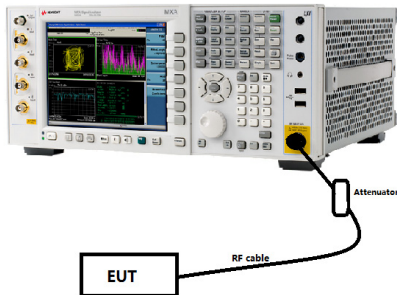
## 5. DTS Bandwidth

---

### 5.1 Standard Applicable

According to 15.247(a)(2), systems using digital modulation techniques may operate in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz.

### 5.2 Test Setup Block Diagram



### 5.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.2 and ANSI C63.10-2020 Subclause 11.8.1, the test method of DTS Bandwidth as below:

- Set RBW = 100kHz.
- Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 5.4 Summary of Test Results/Plots

Please refer to Appendix B

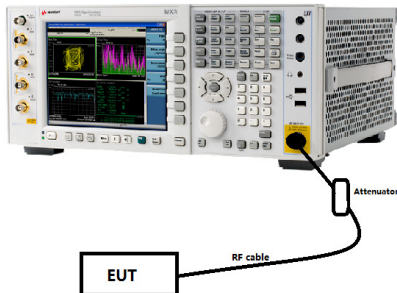
## 6. RF Output Power

---

### 6.1 Standard Applicable

According to 15.247(b)(3), for systems using digital modulation in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands: 1 Watt.

### 6.2 Test Setup Block Diagram



### 6.3 Test Procedure

According to the KDB-558074 D01 v05r02 Sub clause 8.3.2.2 and ANSI C63.10-2020 Sub clause 11.9.2.2, when this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth.

- Set span to at least 1.5 times the OBW.
- Set RBW = 1-5% of the OBW, not to exceed 1MHz.
- Set VBW  $\geq 3 \times$  RBW.
- Number of points in sweep  $\geq 2 \times \text{span} / \text{RBW}$ . (This gives bin-to-bin spacing  $\leq \text{RBW}/2$ , so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto.
- Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- If transmit duty cycle  $< 98\%$ , use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle  $\geq 98\%$ , and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run”.
- Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- Compute power by integrating the spectrum across the OBW of the signal using the instrument’s band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

### 6.4 Summary of Test Results/Plots

Please refer to Appendix C

## 7. Field Strength of Spurious Emissions

### 7.1 Standard Applicable

According to §15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB. 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).

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

### 7.2 Test Procedure

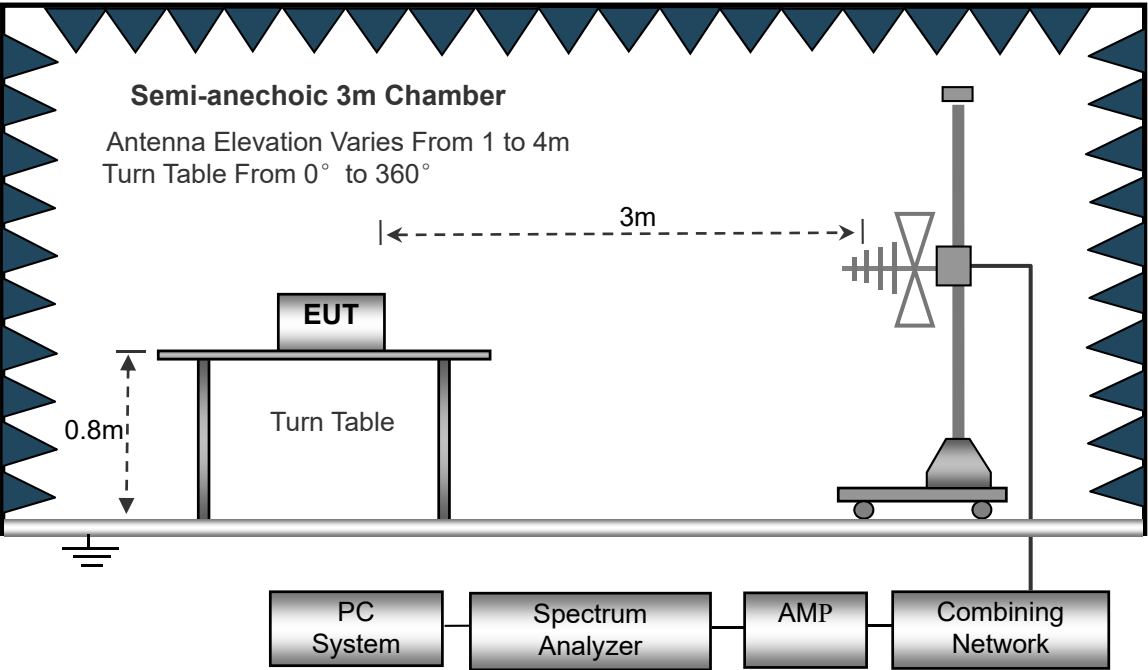
The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

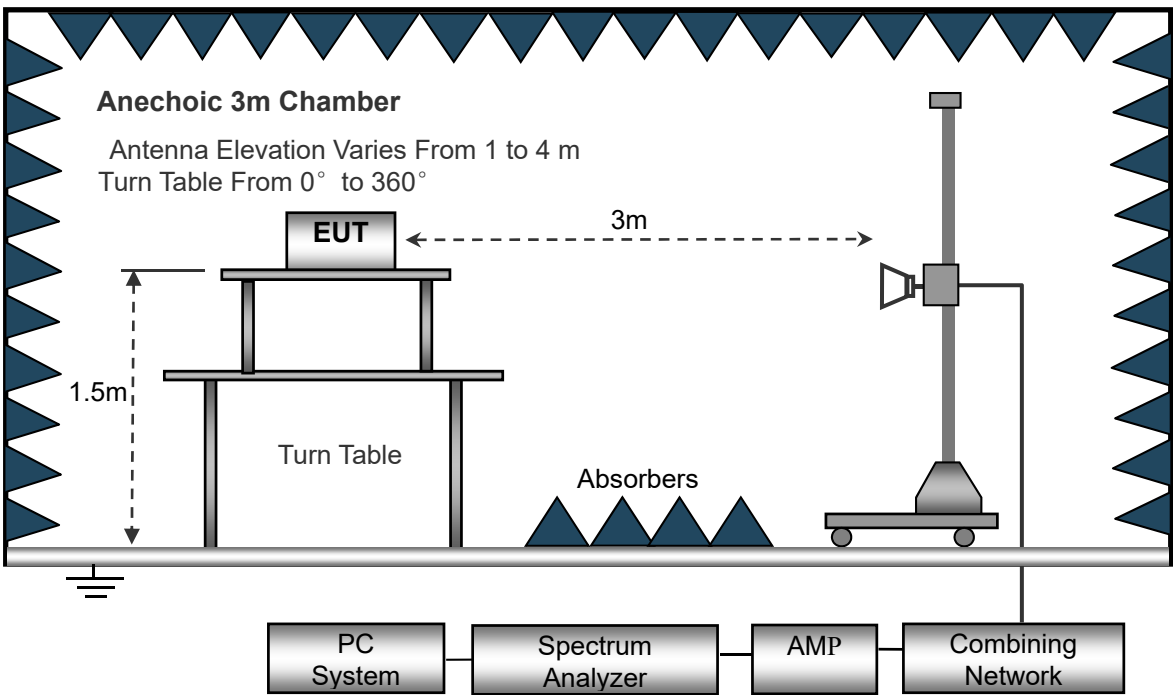
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30MHz to 1GHz.



The test setup for emission measurement above 1GHz.



|                          |                              |                              |
|--------------------------|------------------------------|------------------------------|
| Frequency :9kHz-30MHz    | Frequency :30MHz-1GHz        | Frequency :Above 1GHz        |
| RBW=10kHz,               | RBW=120kHz,                  | RBW=1MHz,                    |
| VBW =30kHz               | VBW=300kHz                   | VBW=3MHz(Peak), 10Hz(AV)     |
| Sweep time= Auto         | Sweep time= Auto             | Sweep time= Auto             |
| Trace = max hold         | Trace = max hold             | Trace = max hold             |
| Detector function = peak | Detector function = peak, QP | Detector function = peak, AV |

### 7.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB $\mu$ V means the emission is 6dB $\mu$ V below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

### 7.4 Summary of Test Results/Plots

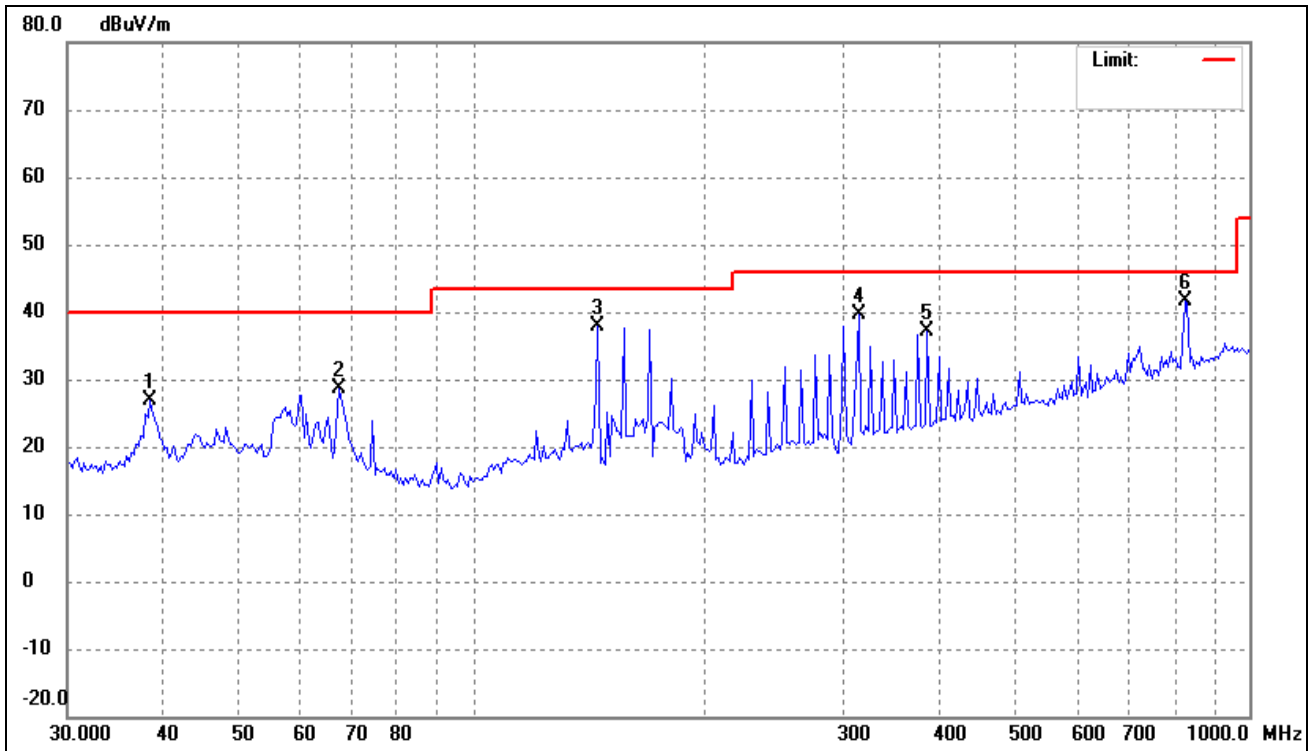
*Note: 1.This EUT was tested in 3 orthogonal positions and the worst case position data was reported.  
All test modes (different data rate and different modulation) are performed, but only the worst case(802.11b\_11Mbps) is recorded in this report.*

## ➤ Spurious Emissions Below 1GHz

Model: WSUS-WF03

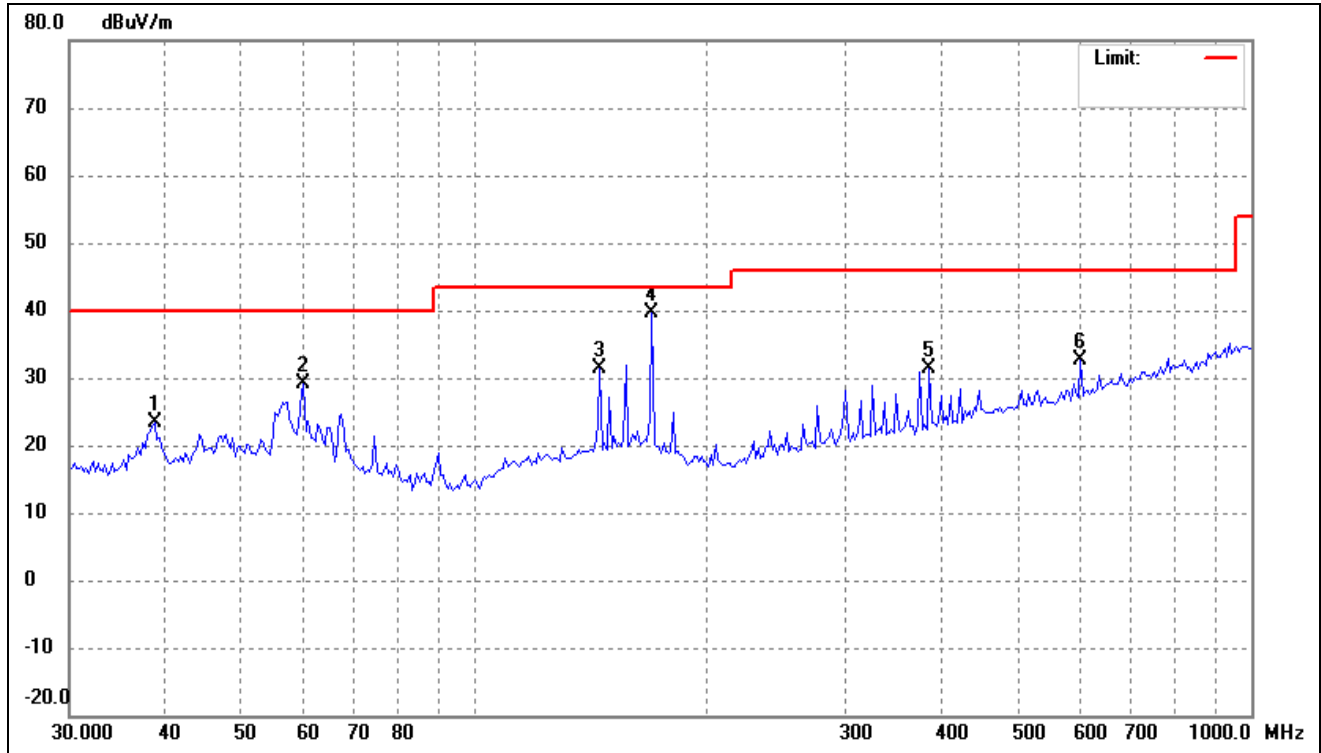
802.11b\_11Mbps

|              |     |           |            |
|--------------|-----|-----------|------------|
| Test Channel | Low | Polarity: | Horizontal |
|--------------|-----|-----------|------------|



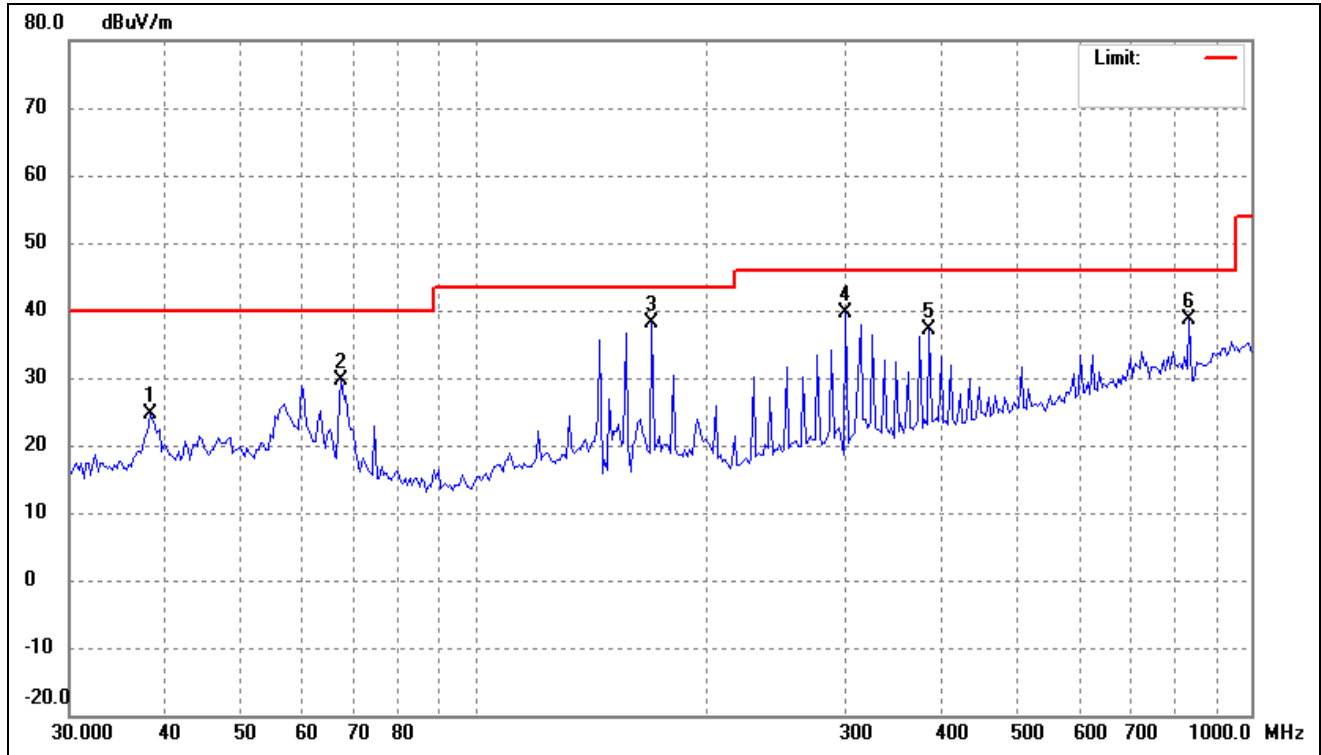
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 38.3651            | 35.77               | -8.99           | 26.78              | 40.00             | -13.22         | -             | -              | peak   |
| 2   | 67.3109            | 38.53               | -9.89           | 28.64              | 40.00             | -11.36         | -             | -              | peak   |
| 3   | 144.7899           | 46.09               | -8.30           | 37.79              | 43.50             | -5.71          | -             | -              | peak   |
| 4   | 313.6482           | 46.20               | -6.54           | 39.66              | 46.00             | -6.34          | -             | -              | peak   |
| 5   | 384.5447           | 42.53               | -5.51           | 37.02              | 46.00             | -8.98          | -             | -              | peak   |
| 6   | 827.1795           | 39.87               | 1.68            | 41.55              | 46.00             | -4.45          | -             | -              | peak   |

|                |     |           |          |
|----------------|-----|-----------|----------|
| 802.11b_11Mbps |     |           |          |
| Test Channel   | Low | Polarity: | Vertical |



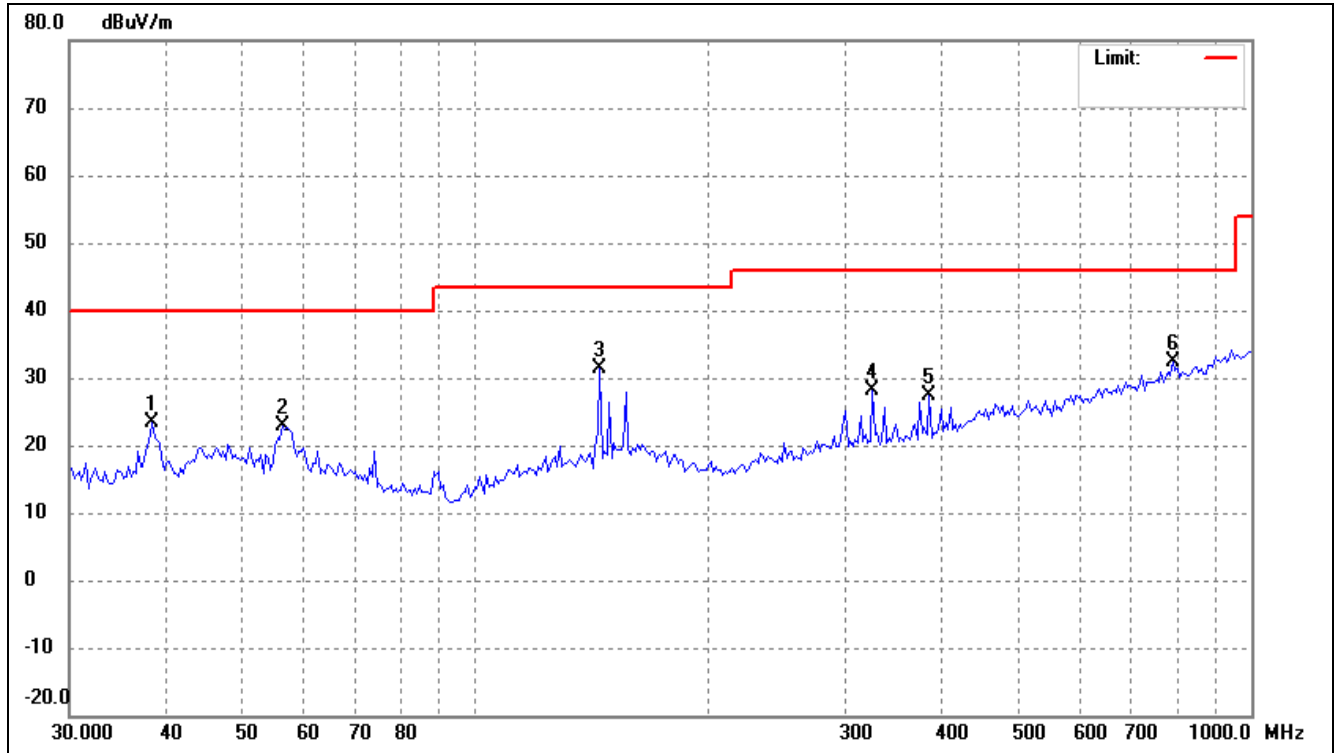
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 38.6357            | 32.30               | -8.96           | 23.34              | 40.00             | -16.66         | -             | -              | peak   |
| 2   | 60.1528            | 38.11               | -8.86           | 29.25              | 40.00             | -10.75         | -             | -              | peak   |
| 3   | 144.7899           | 39.71               | -8.30           | 31.41              | 43.50             | -12.09         | -             | -              | peak   |
| 4   | 168.9970           | 47.62               | -7.97           | 39.65              | 43.50             | -3.85          | -             | -              | peak   |
| 5   | 384.5447           | 36.79               | -5.51           | 31.28              | 46.00             | -14.72         | -             | -              | peak   |
| 6   | 602.9287           | 34.00               | -1.26           | 32.74              | 46.00             | -13.26         | -             | -              | peak   |

|                |        |           |            |
|----------------|--------|-----------|------------|
| 802.11b_11Mbps |        |           |            |
| Test Channel   | Middle | Polarity: | Horizontal |



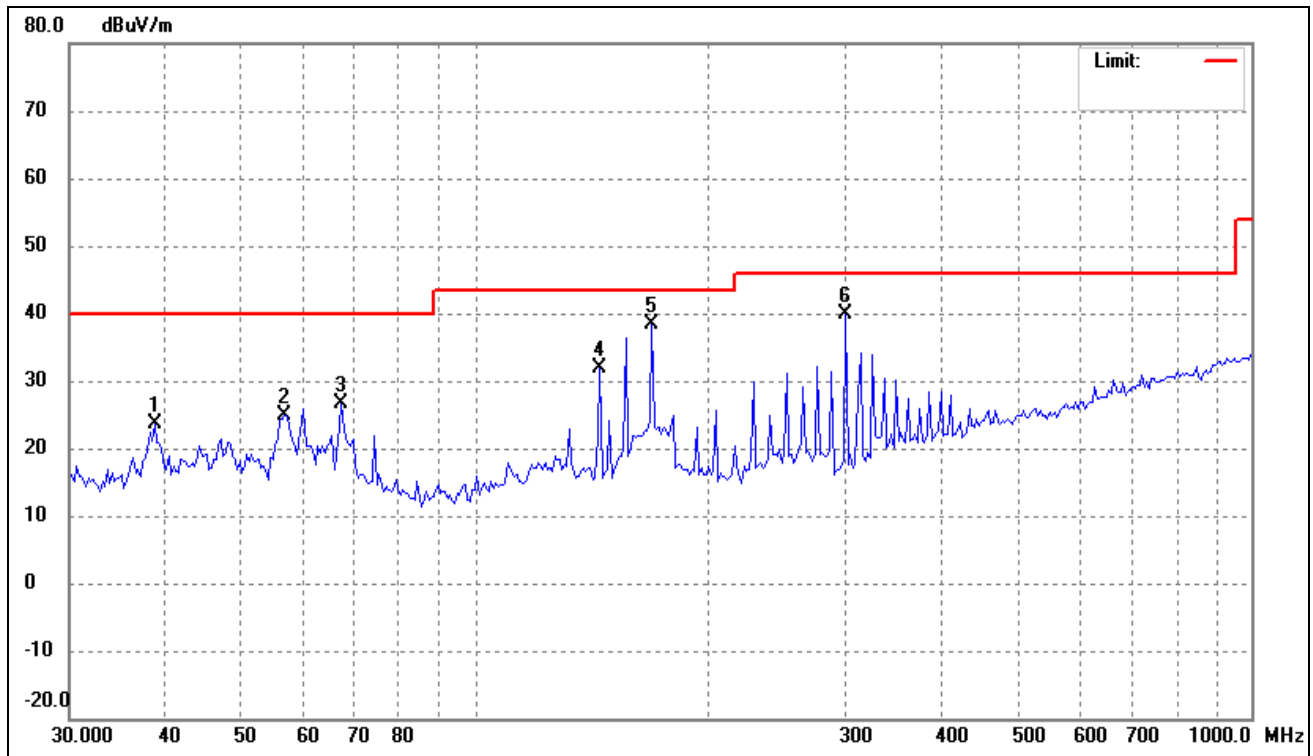
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 38.0965            | 33.63               | -9.02           | 24.61              | 40.00             | -15.39         | -             | -              | peak   |
| 2   | 67.3109            | 39.57               | -9.89           | 29.68              | 40.00             | -10.32         | -             | -              | peak   |
| 3   | 168.9970           | 46.17               | -7.97           | 38.20              | 43.50             | -5.30          | -             | -              | peak   |
| 4   | 300.6988           | 46.36               | -6.83           | 39.53              | 46.00             | -6.47          | -             | -              | peak   |
| 5   | 384.5447           | 42.67               | -5.51           | 37.16              | 46.00             | -8.84          | -             | -              | peak   |
| 6   | 833.0127           | 37.00               | 1.68            | 38.68              | 46.00             | -7.32          | -             | -              | peak   |

|                |        |           |          |
|----------------|--------|-----------|----------|
| 802.11b_11Mbps |        |           |          |
| Test Channel   | Middle | Polarity: | Vertical |



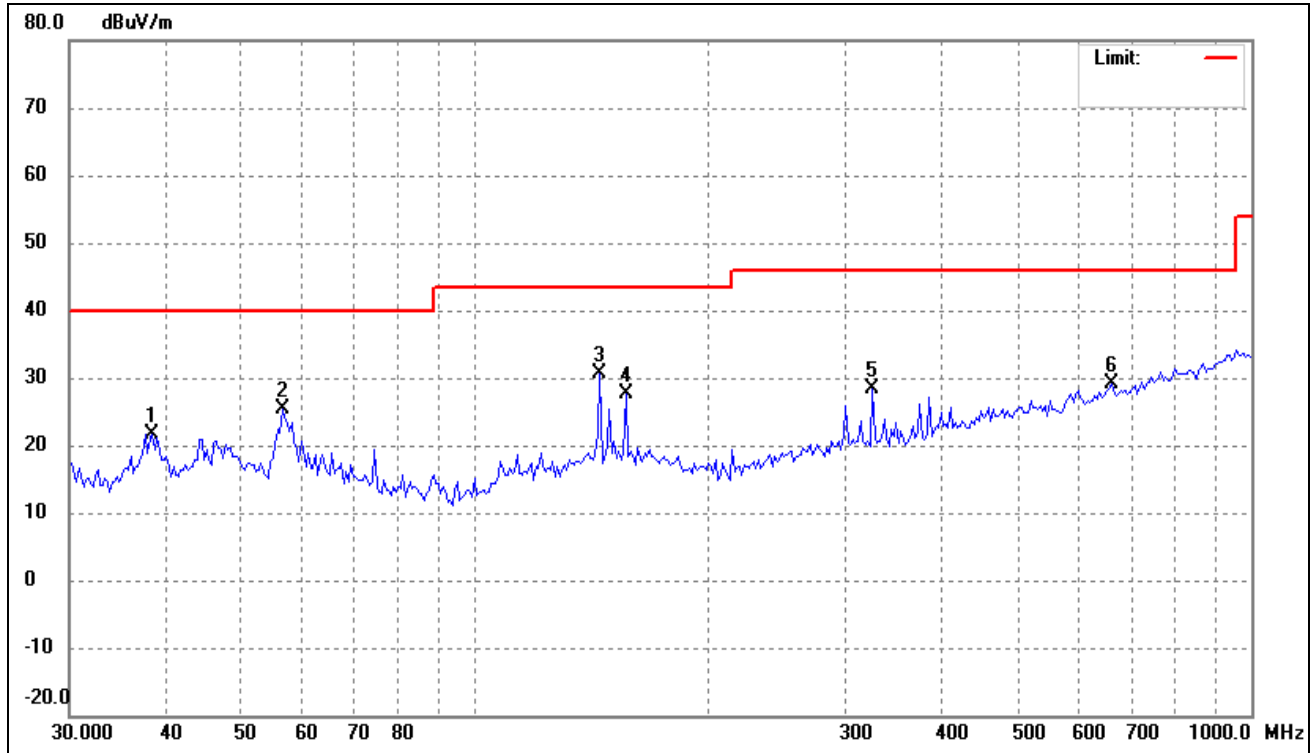
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 38.3651            | 32.46               | -8.99           | 23.47              | 40.00             | -16.53         | -             | -              | peak   |
| 2   | 56.4662            | 31.32               | -8.56           | 22.76              | 40.00             | -17.24         | -             | -              | peak   |
| 3   | 144.7899           | 39.77               | -8.30           | 31.47              | 43.50             | -12.03         | -             | -              | peak   |
| 4   | 324.8645           | 34.31               | -6.28           | 28.03              | 46.00             | -17.97         | -             | -              | peak   |
| 5   | 384.5447           | 32.80               | -5.51           | 27.29              | 46.00             | -18.71         | -             | -              | peak   |
| 6   | 793.0281           | 30.79               | 1.59            | 32.38              | 46.00             | -13.62         | -             | -              | peak   |

|                |      |           |            |
|----------------|------|-----------|------------|
| 802.11b_11Mbps |      |           |            |
| Test Channel   | High | Polarity: | Horizontal |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 38.6357            | 32.65               | -8.96           | 23.69              | 40.00             | -16.31         | -             | -              | peak   |
| 2   | 56.8644            | 33.42               | -8.58           | 24.84              | 40.00             | -15.16         | -             | -              | peak   |
| 3   | 67.3109            | 36.62               | -9.89           | 26.73              | 40.00             | -13.27         | -             | -              | peak   |
| 4   | 144.7899           | 40.23               | -8.30           | 31.93              | 43.50             | -11.57         | -             | -              | peak   |
| 5   | 168.9970           | 46.29               | -7.97           | 38.32              | 43.50             | -5.18          | -             | -              | peak   |

|                |      |           |          |
|----------------|------|-----------|----------|
| 802.11b_11Mbps |      |           |          |
| Test Channel   | High | Polarity: | Vertical |



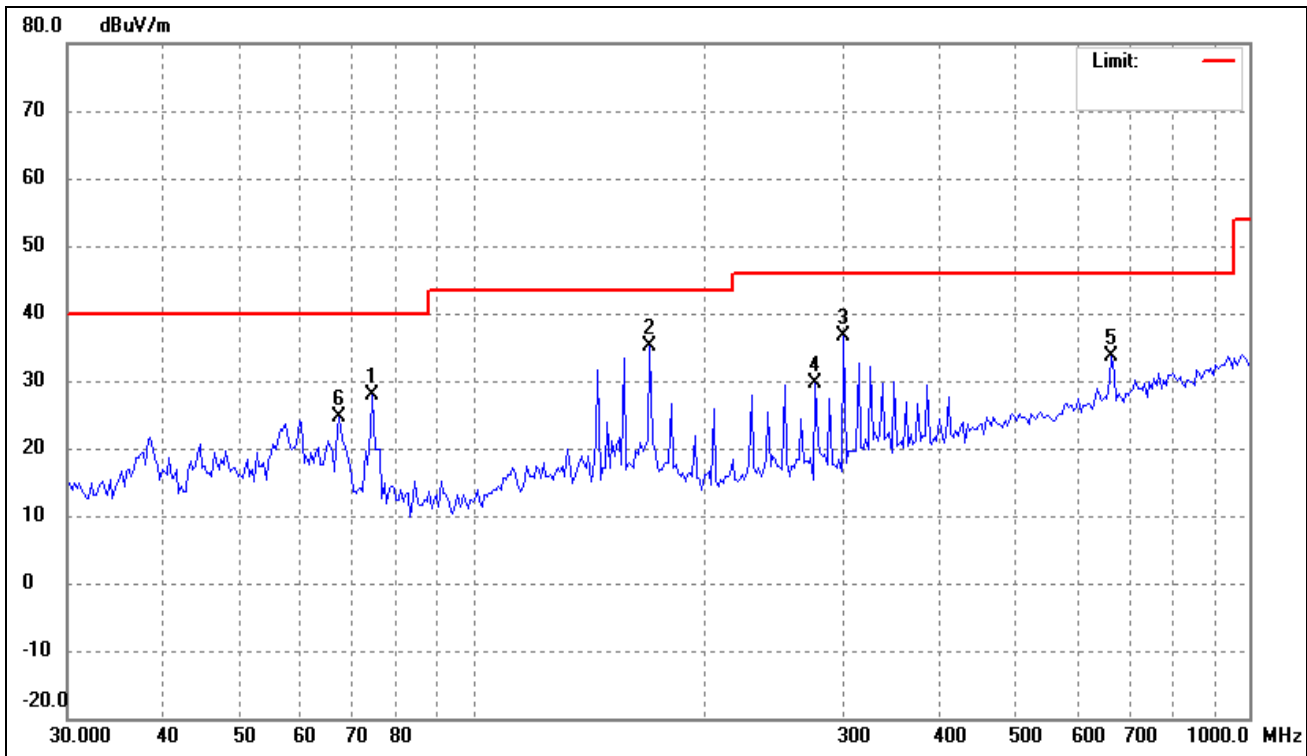
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 38.3651            | 30.70               | -8.99           | 21.71              | 40.00             | -18.29         | -             | -              | peak   |
| 2   | 56.4662            | 33.99               | -8.56           | 25.43              | 40.00             | -14.57         | -             | -              | peak   |
| 3   | 144.7899           | 38.87               | -8.30           | 30.57              | 43.50             | -12.93         | -             | -              | peak   |
| 4   | 156.4259           | 35.33               | -7.74           | 27.59              | 43.50             | -15.91         | -             | -              | peak   |
| 5   | 324.8645           | 34.60               | -6.28           | 28.32              | 46.00             | -17.68         | -             | -              | peak   |
| 6   | 660.6025           | 29.54               | -0.52           | 29.02              | 46.00             | -16.98         | -             | -              | peak   |

Reference No.: WTX25X08227971W001

Model: WSUS-WF01

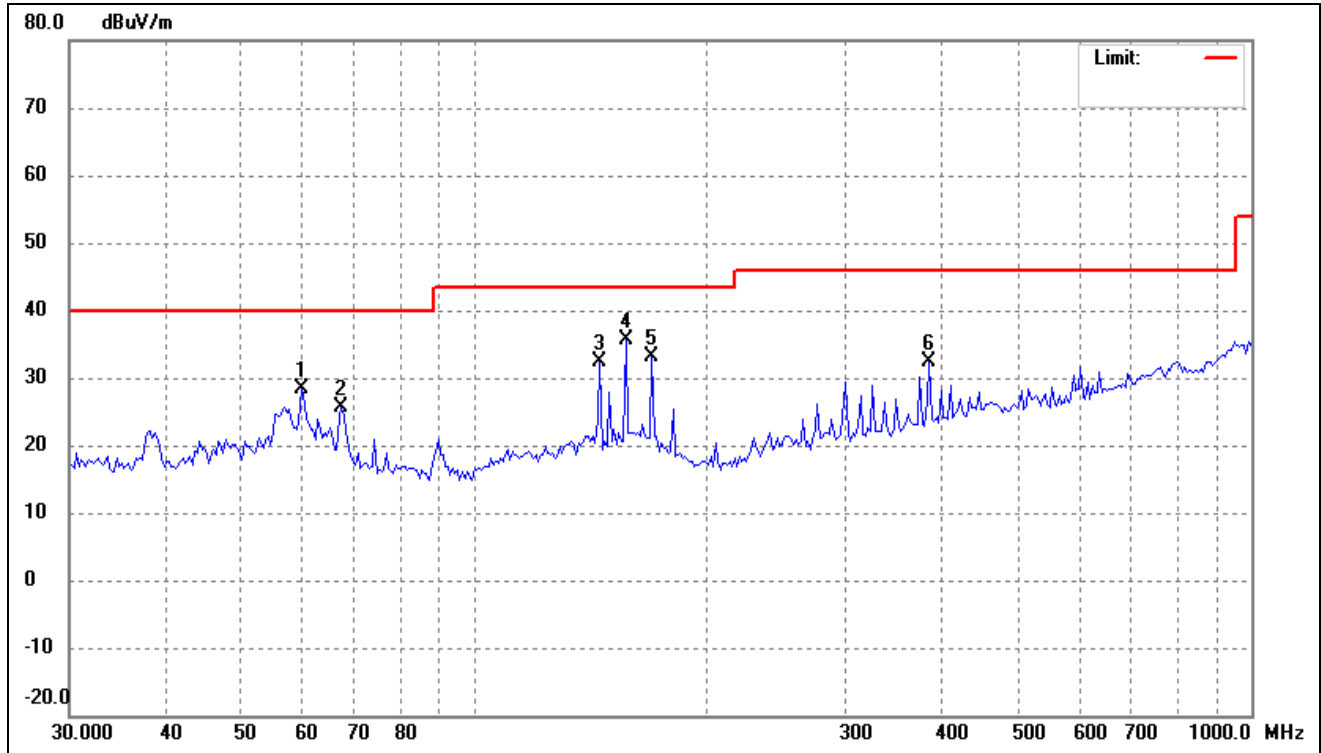
802.11b\_11Mbps

|              |     |           |            |
|--------------|-----|-----------|------------|
| Test Channel | Low | Polarity: | Horizontal |
|--------------|-----|-----------|------------|



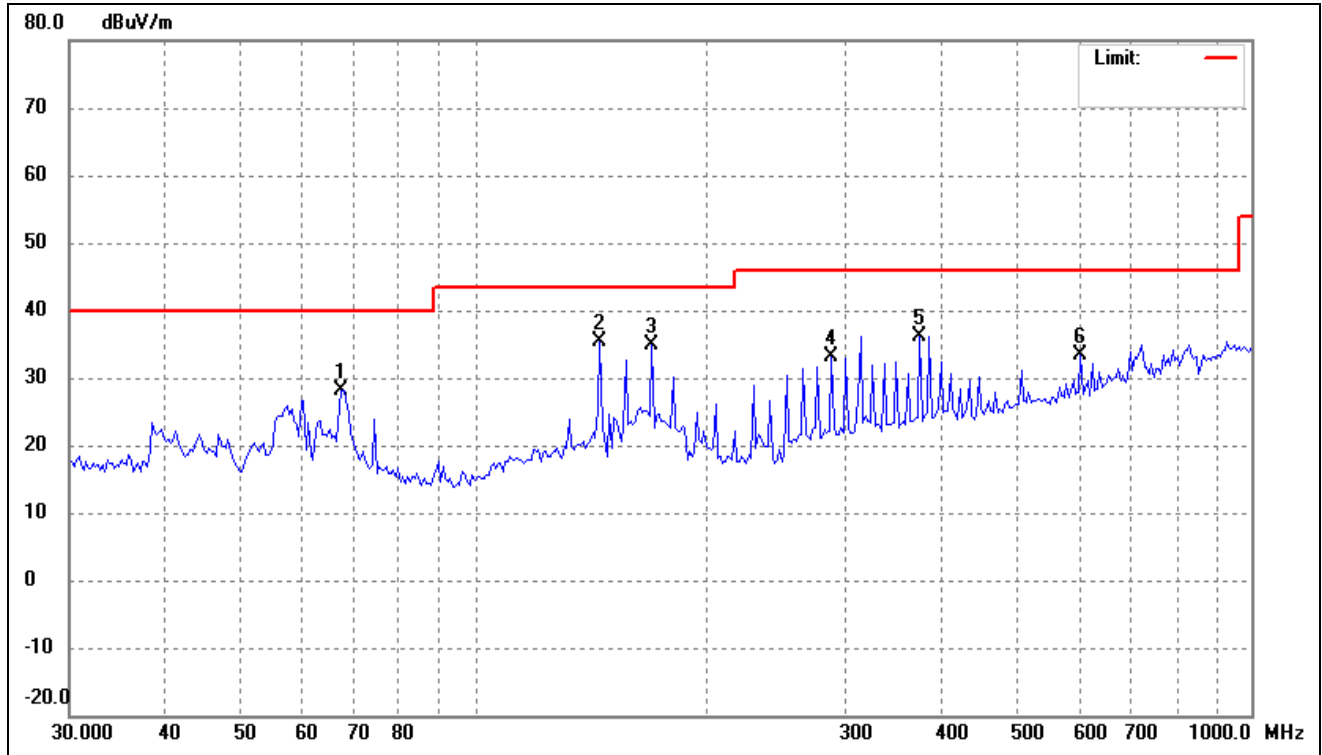
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 74.2696            | 38.97               | -11.20          | 27.77              | 40.00             | -12.23         | -             | -              | peak   |
| 2   | 168.9970           | 43.11               | -7.97           | 35.14              | 43.50             | -8.36          | -             | -              | peak   |
| 3   | 300.6988           | 43.58               | -6.83           | 36.75              | 46.00             | -9.25          | -             | -              | peak   |
| 4   | 276.3817           | 37.31               | -7.61           | 29.70              | 46.00             | -16.30         | -             | -              | peak   |
| 5   | 665.2609           | 34.15               | -0.49           | 33.66              | 46.00             | -12.34         | -             | -              | peak   |
| 6   | 67.3108            | 34.48               | -9.89           | 24.59              | 40.00             | -15.41         | -             | -              | peak   |

|                |     |           |          |
|----------------|-----|-----------|----------|
| 802.11b_11Mbps |     |           |          |
| Test Channel   | Low | Polarity: | Vertical |



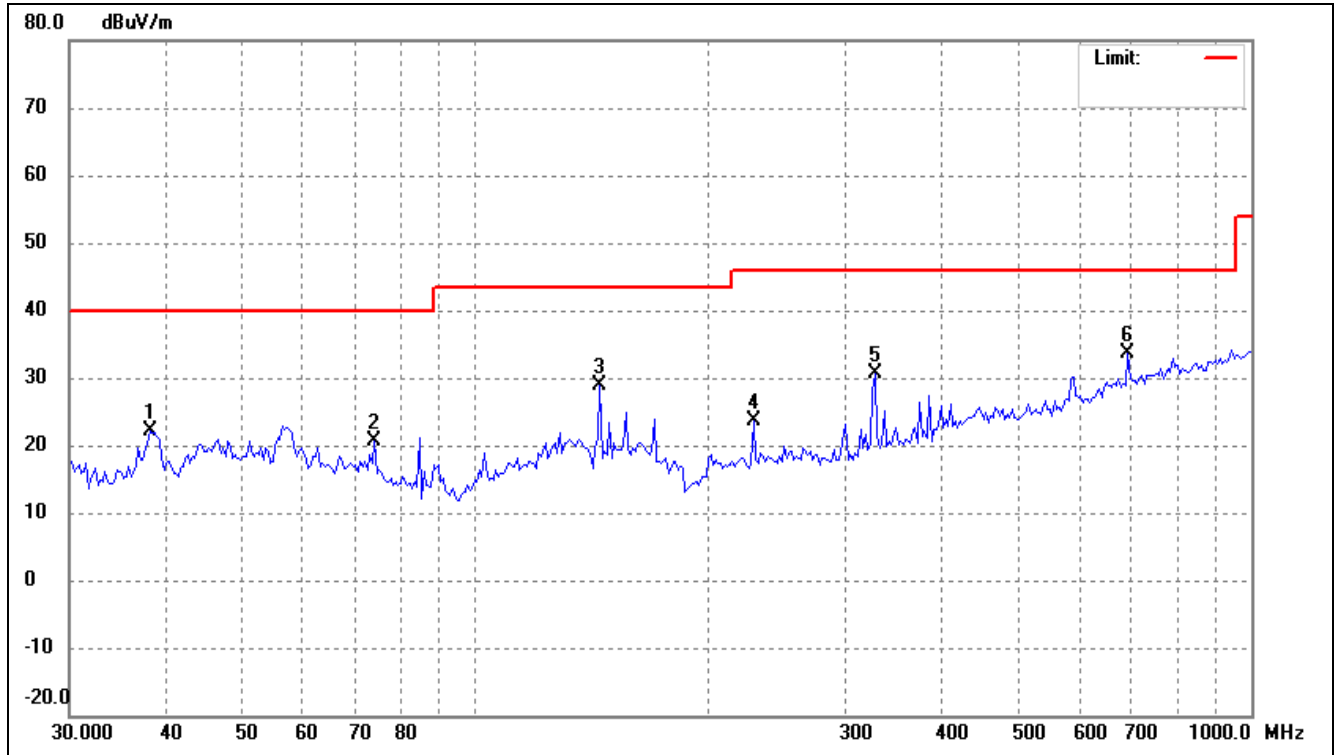
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 59.7314            | 37.31               | -8.81           | 28.50              | 40.00             | -11.50         | -             | -              | peak   |
| 2   | 67.3108            | 35.48               | -9.89           | 25.59              | 40.00             | -14.41         | -             | -              | peak   |
| 3   | 144.7898           | 40.67               | -8.30           | 32.37              | 43.50             | -11.13         | -             | -              | peak   |
| 4   | 156.4258           | 43.39               | -7.74           | 35.65              | 43.50             | -7.85          | -             | -              | peak   |
| 5   | 168.9970           | 41.05               | -7.97           | 33.08              | 43.50             | -10.42         | -             | -              | peak   |
| 6   | 384.5446           | 37.83               | -5.51           | 32.32              | 46.00             | -13.68         | -             | -              | peak   |

|                |        |           |            |
|----------------|--------|-----------|------------|
| 802.11b_11Mbps |        |           |            |
| Test Channel   | Middle | Polarity: | Horizontal |



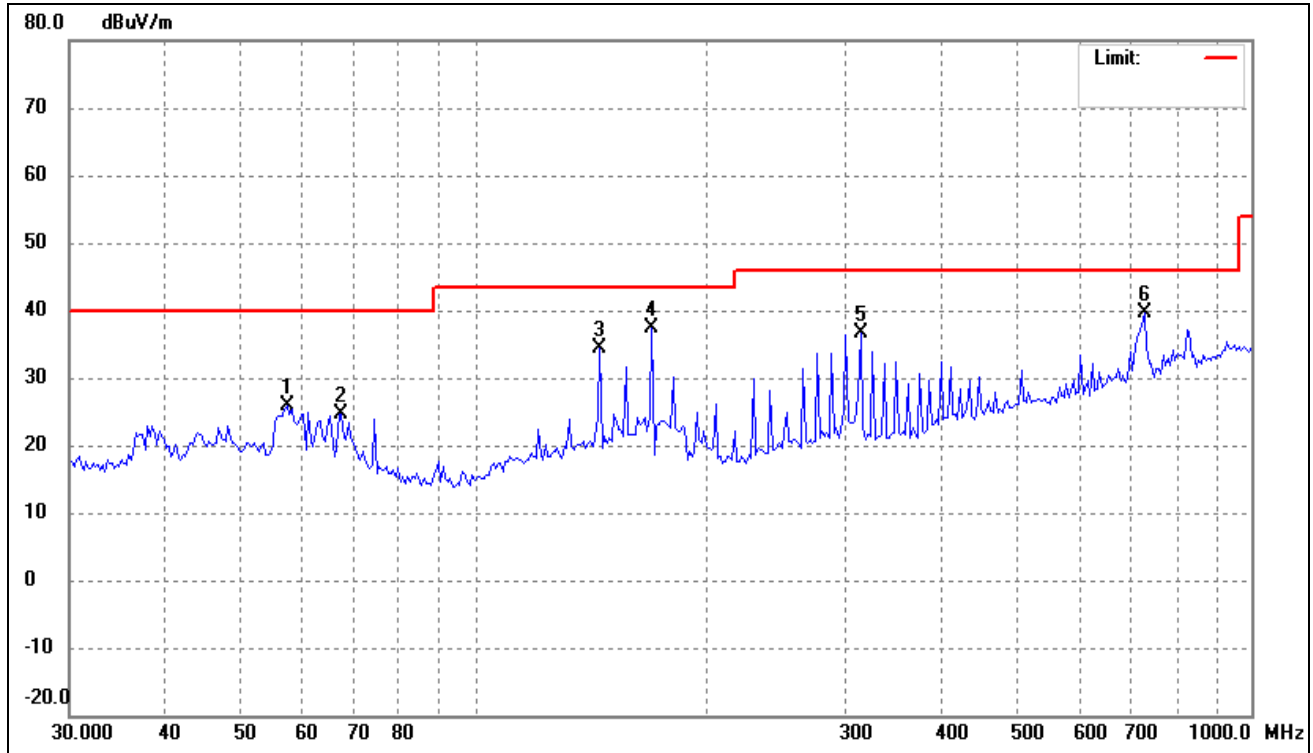
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 67.3108            | 38.03               | -9.89           | 28.14              | 40.00             | -11.86         | -             | -              | peak   |
| 2   | 144.7898           | 43.59               | -8.30           | 35.29              | 43.50             | -8.21          | -             | -              | peak   |
| 3   | 168.9970           | 42.92               | -7.97           | 34.95              | 43.50             | -8.55          | -             | -              | peak   |
| 4   | 288.2839           | 40.21               | -7.15           | 33.06              | 46.00             | -12.94         | -             | -              | peak   |
| 5   | 373.8860           | 41.88               | -5.71           | 36.17              | 46.00             | -9.83          | -             | -              | peak   |
| 6   | 602.9287           | 34.53               | -1.26           | 33.27              | 46.00             | -12.73         | -             | -              | peak   |

|                |        |           |          |
|----------------|--------|-----------|----------|
| 802.11b_11Mbps |        |           |          |
| Test Channel   | Middle | Polarity: | Vertical |



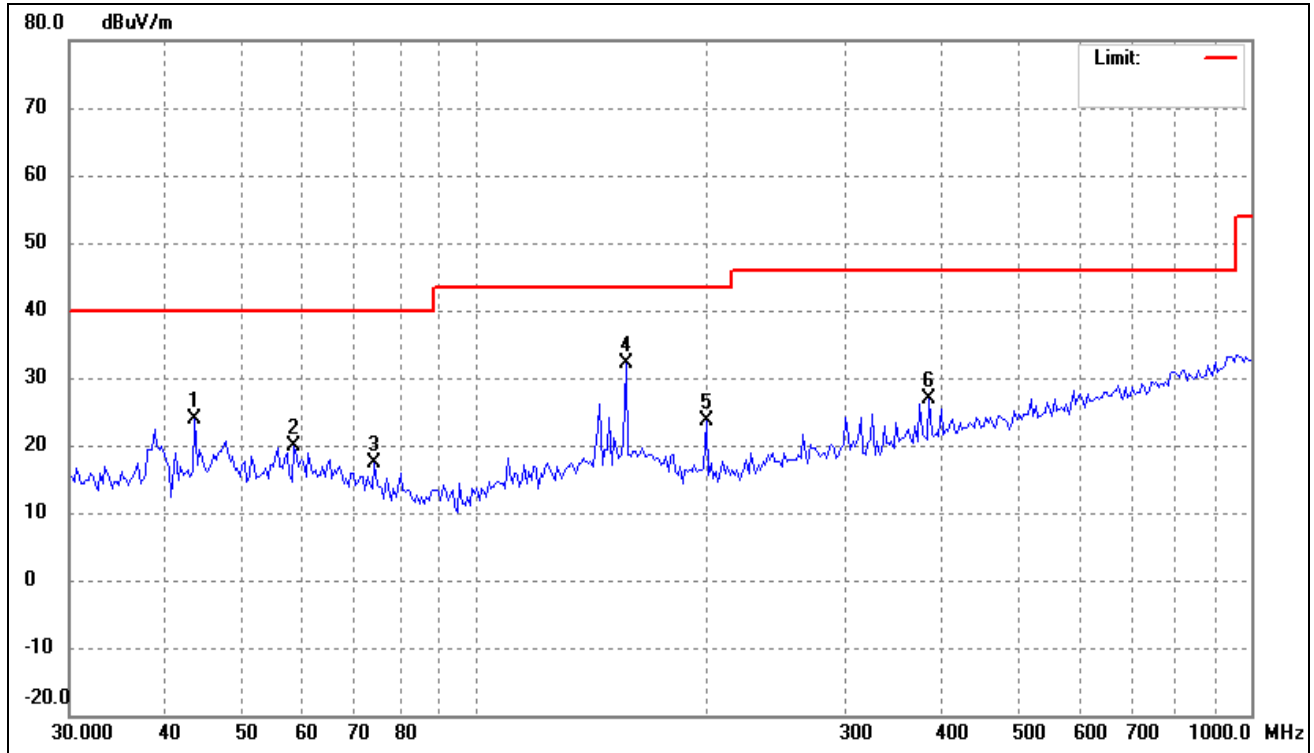
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 38.0964            | 31.23               | -9.02           | 22.21              | 40.00             | -17.79         | -             | -              | peak   |
| 2   | 74.2696            | 31.72               | -11.20          | 20.52              | 40.00             | -19.48         | -             | -              | peak   |
| 3   | 144.7898           | 37.27               | -8.30           | 28.97              | 43.50             | -14.53         | -             | -              | peak   |
| 4   | 228.6173           | 33.94               | -10.20          | 23.74              | 46.00             | -22.26         | -             | -              | peak   |
| 5   | 327.1553           | 36.80               | -6.25           | 30.55              | 46.00             | -15.45         | -             | -              | peak   |
| 6   | 693.9101           | 33.96               | -0.31           | 33.65              | 46.00             | -12.35         | -             | -              | peak   |

|                |      |           |            |
|----------------|------|-----------|------------|
| 802.11b_11Mbps |      |           |            |
| Test Channel   | High | Polarity: | Horizontal |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 57.2654            | 34.54               | -8.61           | 25.93              | 40.00             | -14.07         | -             | -              | peak   |
| 2   | 67.3108            | 34.53               | -9.89           | 24.64              | 40.00             | -15.36         | -             | -              | peak   |
| 3   | 144.7898           | 42.59               | -8.30           | 34.29              | 43.50             | -9.21          | -             | -              | peak   |
| 4   | 168.9970           | 45.42               | -7.97           | 37.45              | 43.50             | -6.05          | -             | -              | peak   |
| 5   | 313.6482           | 43.20               | -6.54           | 36.66              | 46.00             | -9.34          | -             | -              | peak   |
| 6   | 728.8971           | 39.12               | 0.40            | 39.52              | 46.00             | -6.48          | -             | -              | peak   |

|                |      |           |          |
|----------------|------|-----------|----------|
| 802.11b_11Mbps |      |           |          |
| Test Channel   | High | Polarity: | Vertical |

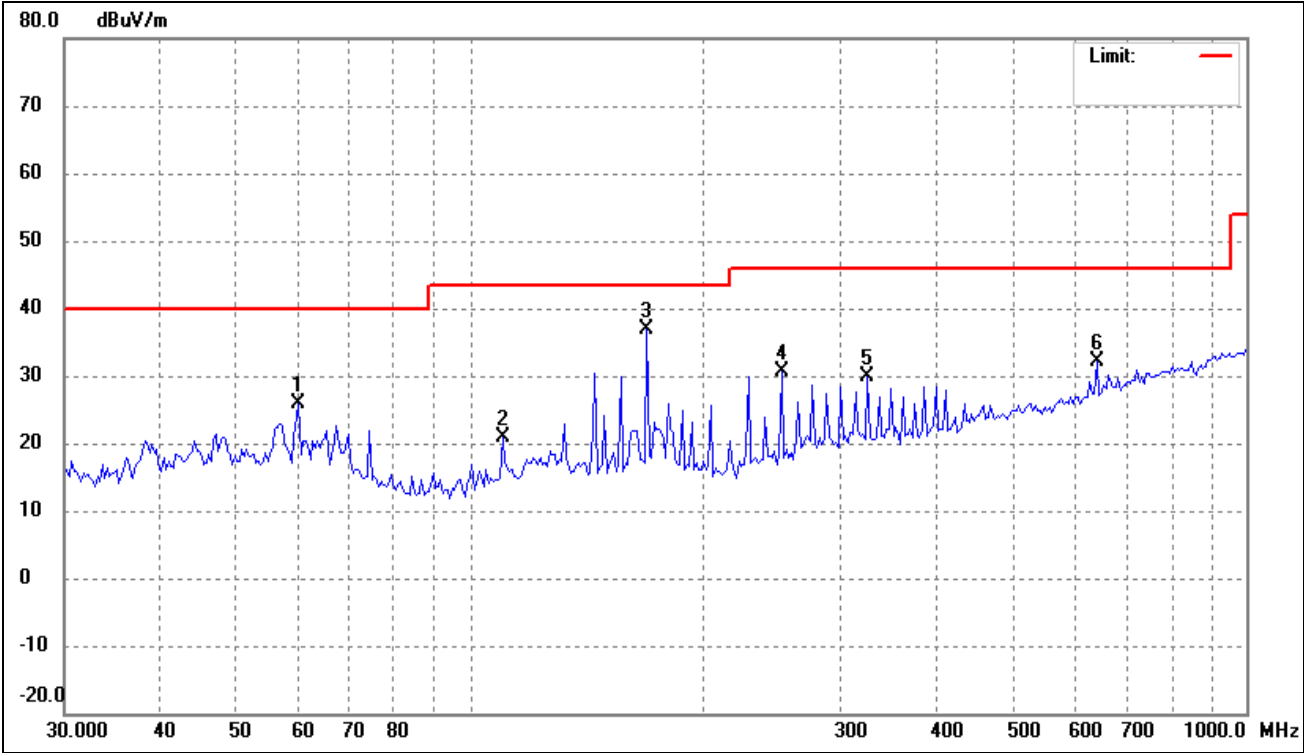


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 43.5380            | 32.32               | -8.45           | 23.87              | 40.00             | -16.13         | -             | -              | peak   |
| 2   | 58.4853            | 28.59               | -8.69           | 19.90              | 40.00             | -20.10         | -             | -              | peak   |
| 3   | 74.2695            | 28.56               | -11.20          | 17.36              | 40.00             | -22.64         | -             | -              | peak   |
| 4   | 156.4258           | 39.98               | -7.74           | 32.24              | 43.50             | -11.26         | -             | -              | peak   |
| 5   | 198.6423           | 34.41               | -10.71          | 23.70              | 43.50             | -19.80         | -             | -              | peak   |
| 6   | 384.5446           | 32.31               | -5.51           | 26.80              | 46.00             | -19.20         | -             | -              | peak   |

Model: WSUS-WF02

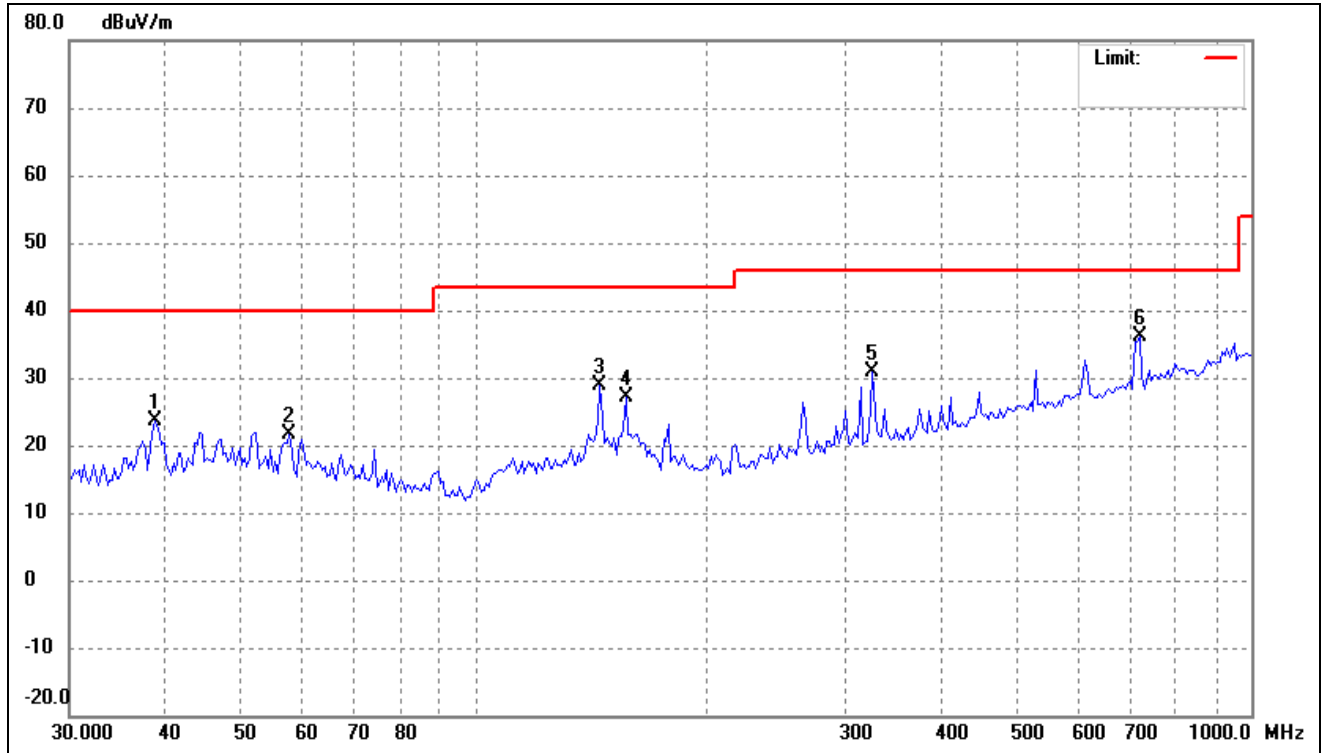
802.11b\_11Mbps

|              |     |           |            |
|--------------|-----|-----------|------------|
| Test Channel | Low | Polarity: | Horizontal |
|--------------|-----|-----------|------------|



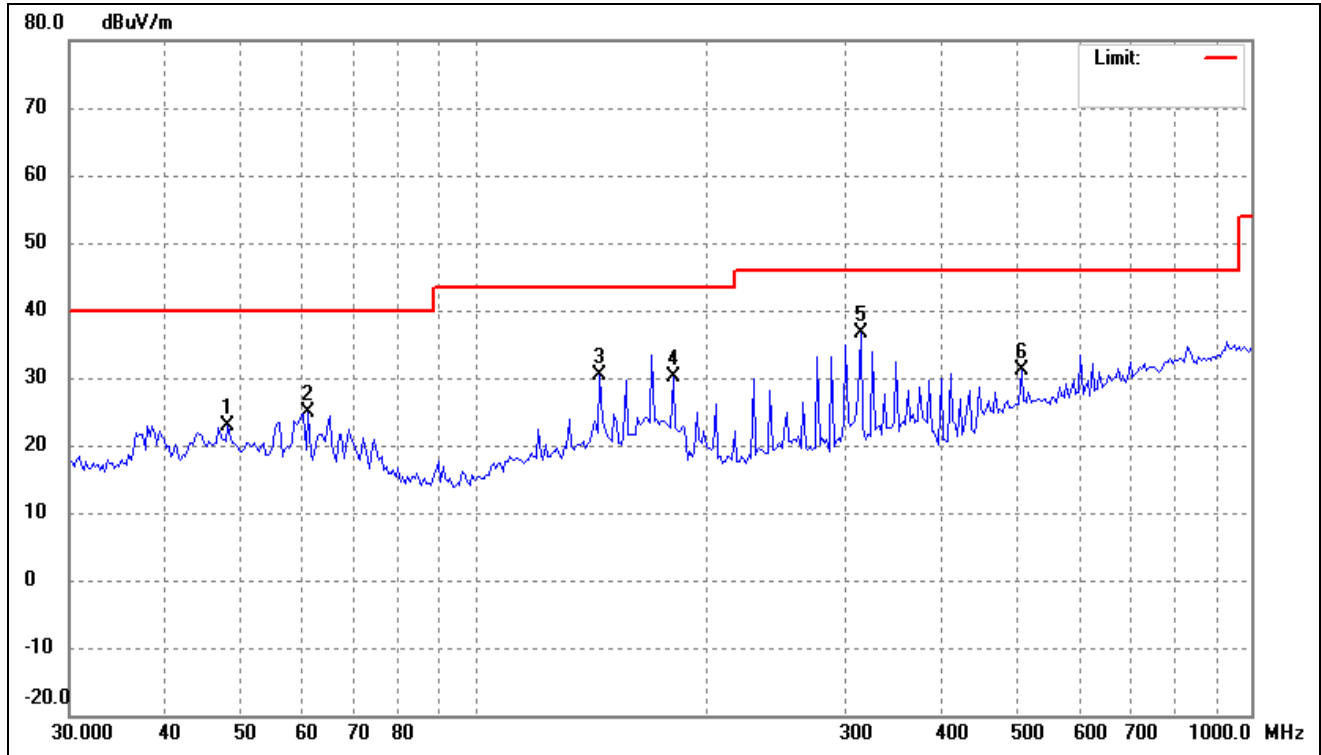
| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1   | 60.1527         | 34.63            | -8.86          | 25.77           | 40.00          | -14.23      | -          | -           | peak   |
| 2   | 110.0818        | 31.94            | -11.13         | 20.81           | 43.50          | -22.69      | -          | -           | peak   |
| 3   | 168.9970        | 44.79            | -7.97          | 36.82           | 43.50          | -6.68       | -          | -           | peak   |
| 4   | 252.2522        | 39.38            | -8.70          | 30.68           | 46.00          | -15.32      | -          | -           | peak   |
| 5   | 324.8643        | 36.13            | -6.28          | 29.85           | 46.00          | -16.15      | -          | -           | peak   |
| 6   | 642.2922        | 33.00            | -0.83          | 32.17           | 46.00          | -13.83      | -          | -           | peak   |

|                |     |           |          |
|----------------|-----|-----------|----------|
| 802.11b_11Mbps |     |           |          |
| Test Channel   | Low | Polarity: | Vertical |



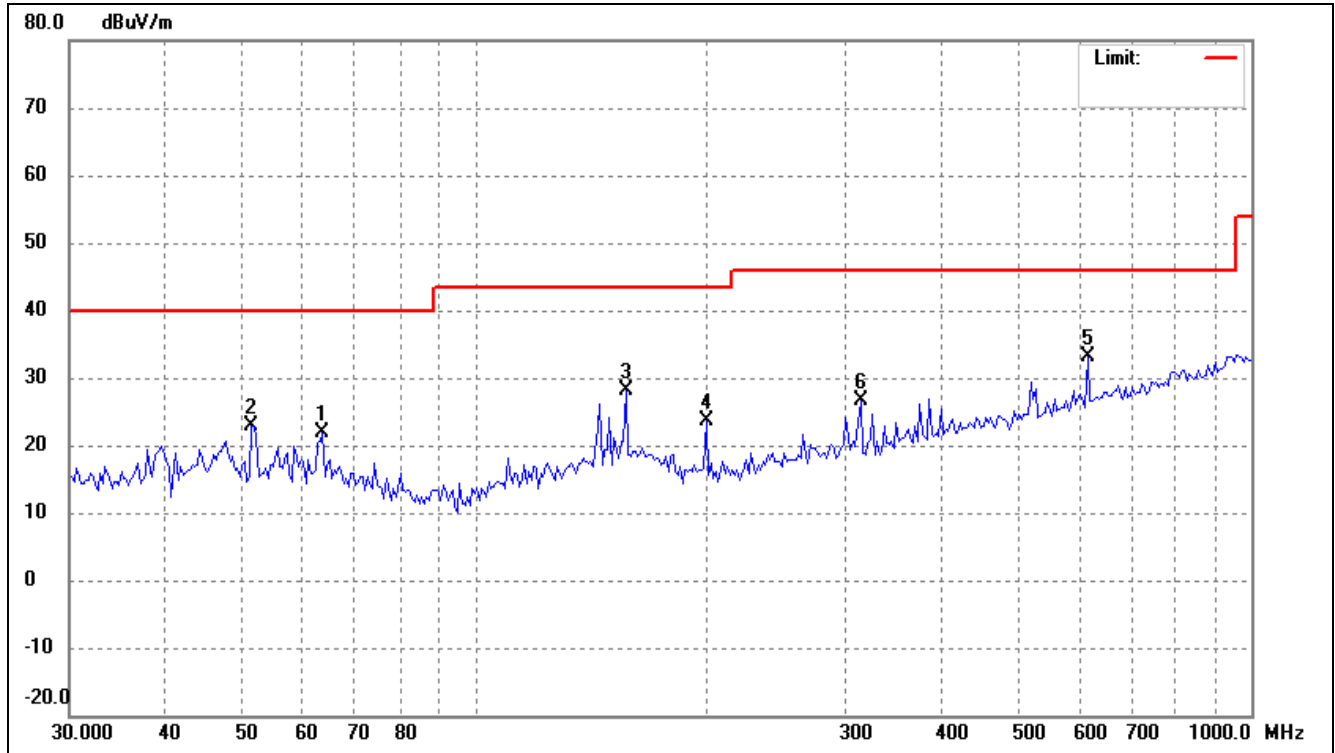
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 38.6355            | 32.63               | -8.96           | 23.67              | 40.00             | -16.33         | -             | -              | peak   |
| 2   | 57.6691            | 30.38               | -8.64           | 21.74              | 40.00             | -18.26         | -             | -              | peak   |
| 3   | 144.7898           | 37.19               | -8.30           | 28.89              | 43.50             | -14.61         | -             | -              | peak   |
| 4   | 156.4258           | 34.89               | -7.74           | 27.15              | 43.50             | -16.35         | -             | -              | peak   |
| 5   | 324.8643           | 37.25               | -6.28           | 30.97              | 46.00             | -15.03         | -             | -              | peak   |
| 6   | 718.7246           | 35.95               | 0.17            | 36.12              | 46.00             | -9.88          | -             | -              | peak   |

|                |        |           |            |
|----------------|--------|-----------|------------|
| 802.11b_11Mbps |        |           |            |
| Test Channel   | Middle | Polarity: | Horizontal |



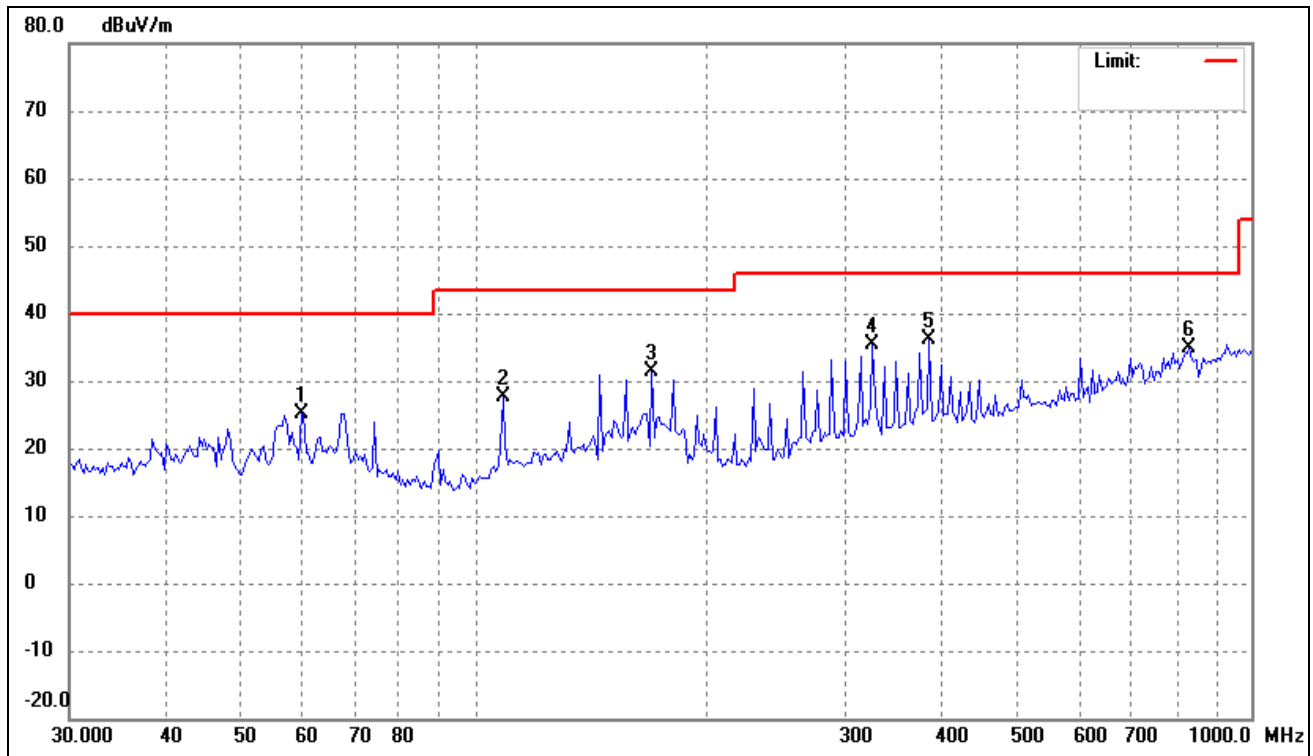
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 48.0392            | 31.23               | -8.29           | 22.94              | 40.00             | -17.06         | -             | -              | peak   |
| 2   | 61.0041            | 33.90               | -8.97           | 24.93              | 40.00             | -15.07         | -             | -              | peak   |
| 3   | 144.7898           | 38.59               | -8.30           | 30.29              | 43.50             | -13.21         | -             | -              | peak   |
| 4   | 180.0302           | 39.19               | -9.05           | 30.14              | 43.50             | -13.36         | -             | -              | peak   |
| 5   | 313.6481           | 43.20               | -6.54           | 36.66              | 46.00             | -9.34          | -             | -              | peak   |
| 6   | 505.7889           | 34.55               | -3.43           | 31.12              | 46.00             | -14.88         | -             | -              | peak   |

|                |        |           |          |
|----------------|--------|-----------|----------|
| 802.11b_11Mbps |        |           |          |
| Test Channel   | Middle | Polarity: | Vertical |



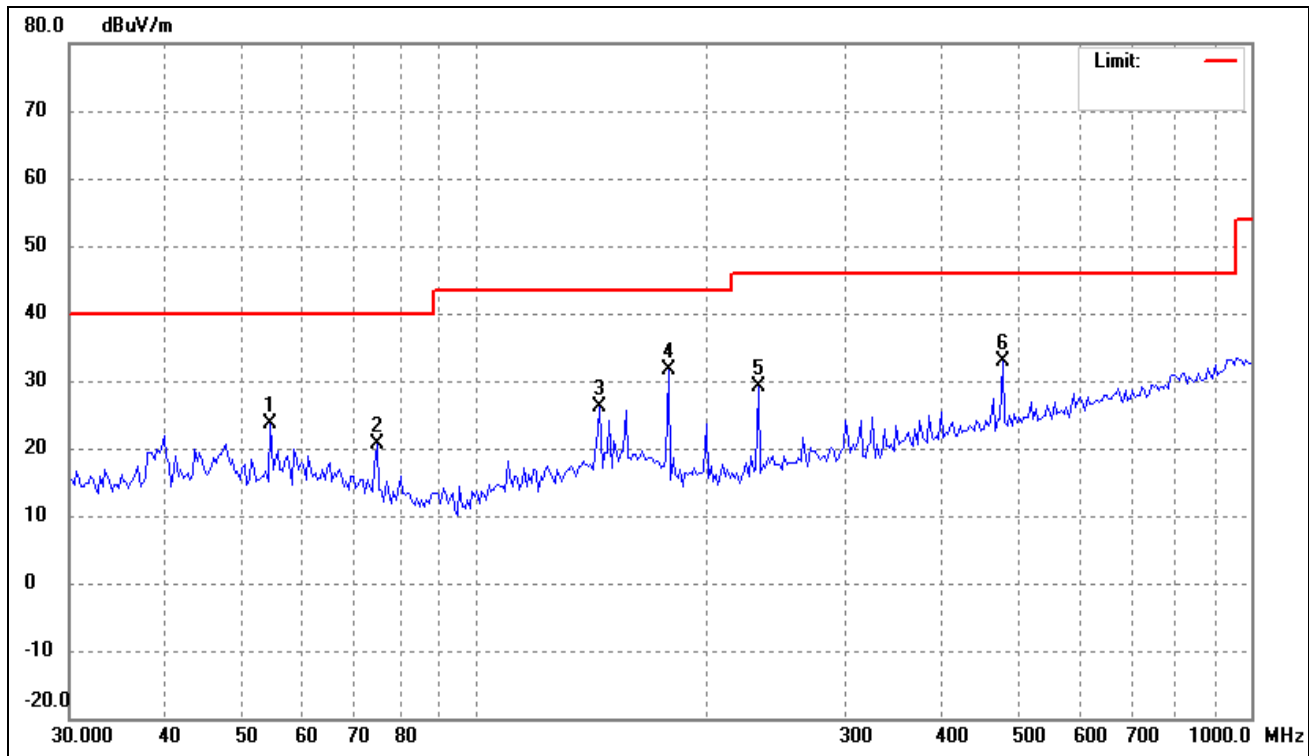
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 63.6311            | 31.13               | -9.31           | 21.82              | 40.00             | -18.18         | -             | -              | peak   |
| 2   | 51.5363            | 31.27               | -8.27           | 23.00              | 40.00             | -17.00         | -             | -              | peak   |
| 3   | 156.4258           | 35.98               | -7.74           | 28.24              | 43.50             | -15.26         | -             | -              | peak   |
| 4   | 198.6423           | 34.41               | -10.71          | 23.70              | 43.50             | -19.80         | -             | -              | peak   |
| 5   | 615.7743           | 34.35               | -1.33           | 33.02              | 46.00             | -12.98         | -             | -              | peak   |
| 6   | 313.6480           | 33.23               | -6.54           | 26.69              | 46.00             | -19.31         | -             | -              | peak   |

|                |      |           |            |
|----------------|------|-----------|------------|
| 802.11b_11Mbps |      |           |            |
| Test Channel   | High | Polarity: | Horizontal |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 59.7314            | 34.06               | -8.81           | 25.25              | 40.00             | -14.75         | -             | -              | peak   |
| 2   | 108.5455           | 39.10               | -11.36          | 27.74              | 43.50             | -15.76         | -             | -              | peak   |
| 3   | 168.9970           | 39.42               | -7.97           | 31.45              | 43.50             | -12.05         | -             | -              | peak   |
| 4   | 324.8643           | 41.54               | -6.28           | 35.26              | 46.00             | -10.74         | -             | -              | peak   |
| 5   | 384.5446           | 41.53               | -5.51           | 36.02              | 46.00             | -9.98          | -             | -              | peak   |
| 6   | 833.0126           | 33.29               | 1.68            | 34.97              | 46.00             | -11.03         | -             | -              | peak   |

|                |      |           |          |
|----------------|------|-----------|----------|
| 802.11b_11Mbps |      |           |          |
| Test Channel   | High | Polarity: | Vertical |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 54.5165            | 32.04               | -8.45           | 23.59              | 40.00             | -16.41         | -             | -              | peak   |
| 2   | 74.7933            | 31.93               | -11.32          | 20.61              | 40.00             | -19.39         | -             | -              | peak   |
| 3   | 144.7898           | 34.44               | -8.30           | 26.14              | 43.50             | -17.36         | -             | -              | peak   |
| 4   | 177.5176           | 40.27               | -8.74           | 31.53              | 43.50             | -11.97         | -             | -              | peak   |
| 5   | 231.8530           | 38.87               | -9.85           | 29.02              | 46.00             | -16.98         | -             | -              | peak   |
| 6   | 478.1394           | 36.93               | -3.97           | 32.96              | 46.00             | -13.04         | -             | -              | peak   |

Remark: '-' Means the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

- Spurious Emissions Above 1GHz
- Model: WSUS-WF03
- Test Mode: 802.11b\_11Mbps (worst case)

| Frequency<br>(MHz)     | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Polar<br>H/V | Detector |
|------------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------------|----------|
| Low Channel-2412MHz    |                     |                 |                    |                   |                |              |          |
| 4824.000               | 53.04               | -13.21          | 39.83              | 74.00             | -34.17         | H            | PK       |
| 7236.000               | 53.79               | -6.94           | 46.85              | 74.00             | -27.15         | H            | PK       |
| 4824.000               | 52.44               | -13.21          | 39.23              | 74.00             | -34.77         | V            | PK       |
| 7236.000               | 52.98               | -6.94           | 46.04              | 74.00             | -27.96         | V            | PK       |
| Middle Channel-2437MHz |                     |                 |                    |                   |                |              |          |
| 4874.000               | 54.17               | -13.15          | 41.02              | 74.00             | -32.98         | H            | PK       |
| 7311.000               | 53.65               | -7.15           | 46.50              | 74.00             | -27.50         | H            | PK       |
| 4874.000               | 52.31               | -13.15          | 39.16              | 74.00             | -34.84         | V            | PK       |
| 7311.000               | 52.96               | -7.15           | 45.81              | 74.00             | -28.19         | V            | PK       |
| High Channel-2462MHz   |                     |                 |                    |                   |                |              |          |
| 4924.000               | 53.20               | -13.09          | 40.11              | 74.00             | -33.89         | H            | PK       |
| 7386.000               | 53.46               | -7.37           | 46.09              | 74.00             | -27.91         | H            | PK       |
| 4924.000               | 51.69               | -13.09          | 38.60              | 74.00             | -35.40         | V            | PK       |
| 7386.000               | 54.30               | -7.37           | 46.93              | 74.00             | -27.07         | V            | PK       |

- Model: WSUS-WF01
- Test Mode: 802.11b\_11Mbps (worst case)

| Frequency<br>(MHz)     | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Polar<br>H/V | Detector |
|------------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------------|----------|
| Low Channel-2412MHz    |                     |                 |                    |                   |                |              |          |
| 4824                   | 56.88               | -13.49          | 43.39              | 74                | -30.61         | H            | PK       |
| 7236                   | 54.72               | -7.46           | 47.26              | 74                | -26.74         | H            | PK       |
| 4795.868               | 58.97               | -13.51          | 45.46              | 74                | -28.54         | V            | PK       |
| 7236                   | 53.46               | -7.46           | 46                 | 74                | -28            | V            | PK       |
| Middle Channel-2437MHz |                     |                 |                    |                   |                |              |          |
| 4874                   | 55.25               | -13.44          | 41.81              | 74                | -32.19         | H            | PK       |
| 7311                   | 54.02               | -7.69           | 46.33              | 74                | -27.67         | H            | PK       |
| 4771.279               | 58.46               | -13.55          | 44.91              | 74                | -29.09         | V            | PK       |
| 7311                   | 54.22               | -7.69           | 46.53              | 74                | -27.47         | V            | PK       |
| High Channel-2462MHz   |                     |                 |                    |                   |                |              |          |
| 4924                   | 55.38               | -13.37          | 42.01              | 74                | -31.99         | H            | PK       |
| 7386                   | 54.81               | -7.93           | 46.88              | 74                | -27.12         | H            | PK       |
| 4997.191               | 57.76               | -13.28          | 44.48              | 74                | -29.52         | V            | PK       |
| 7386                   | 54.29               | -7.93           | 46.36              | 74                | -27.64         | V            | PK       |

- Model: WSUS-WF02
- Test Mode: 802.11b\_11Mbps (worst case)

| Frequency              | Reading  | Correct | Result   | Limit    | Margin | Polar | Detector |
|------------------------|----------|---------|----------|----------|--------|-------|----------|
| (MHz)                  | (dBuV/m) | dB/m    | (dBuV/m) | (dBuV/m) | (dB)   | H/V   |          |
| Low Channel-2412MHz    |          |         |          |          |        |       |          |
| 4824                   | 56.47    | -13.49  | 42.98    | 74.00    | -31.02 | H     | PK       |
| 7236                   | 53.52    | -7.46   | 46.06    | 74.00    | -27.94 | H     | PK       |
| 4795.868               | 57.83    | -13.51  | 44.32    | 74.00    | -29.68 | V     | PK       |
| 7236                   | 53.71    | -7.46   | 46.25    | 74.00    | -27.75 | V     | PK       |
| Middle Channel-2437MHz |          |         |          |          |        |       |          |
| 4874                   | 55.68    | -13.44  | 42.24    | 74.00    | -31.76 | H     | PK       |
| 7311                   | 53.99    | -7.69   | 46.30    | 74.00    | -27.70 | H     | PK       |
| 4771.279               | 58.29    | -13.55  | 44.74    | 74.00    | -29.26 | V     | PK       |
| 7311                   | 53.49    | -7.69   | 45.80    | 74.00    | -28.20 | V     | PK       |
| High Channel-2462MHz   |          |         |          |          |        |       |          |
| 4924                   | 56.28    | -13.37  | 42.91    | 74.00    | -31.09 | H     | PK       |
| 7386                   | 53.77    | -7.93   | 45.84    | 74.00    | -28.16 | H     | PK       |
| 4997.191               | 57.62    | -13.28  | 44.34    | 74.00    | -29.66 | V     | PK       |
| 7386                   | 54.11    | -7.93   | 46.18    | 74.00    | -27.82 | V     | PK       |

*Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*

## 8. Out of Band Emissions

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### 8.1 Standard Applicable

According to §15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB. 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).

### 8.2 Test Procedure

According to the KDB 558074D01 v05r02 Subclause 8.4 and ANSI C63.10-2020 Subclause 11.11, the Emissions in nonrestricted frequency bands test method as follows:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100kHz.
- c) Set the VBW  $\geq [3 \times \text{RBW}]$ .
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

According to the KDB 558074 D01 v05r02 Subclause 8.5 and ANSI C63.10-2020 Subclause 11.12, the Emissions in restricted frequency bands test method as follows:

#### A. Radiated emission measurements:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission

must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement KDB publication number: 913591 may be used for the radiated bandedge measurements.

**B. Antenna-port conducted measurements**

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 9.
- b) VBW  $\geq [3 \times \text{RBW}]$ .
- c) Detector = peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be lengthened for low-duty-cycle applications.)

**Table 9—RBW as a function of frequency**

| Frequency          | RBW                |
|--------------------|--------------------|
| 9 kHz to 150 kHz   | 200 Hz to 300 Hz   |
| 0.15 MHz to 30 MHz | 9 kHz to 10 kHz    |
| 30 MHz to 1000 MHz | 100 kHz to 120 kHz |
| >1000 MHz          | 1 MHz              |

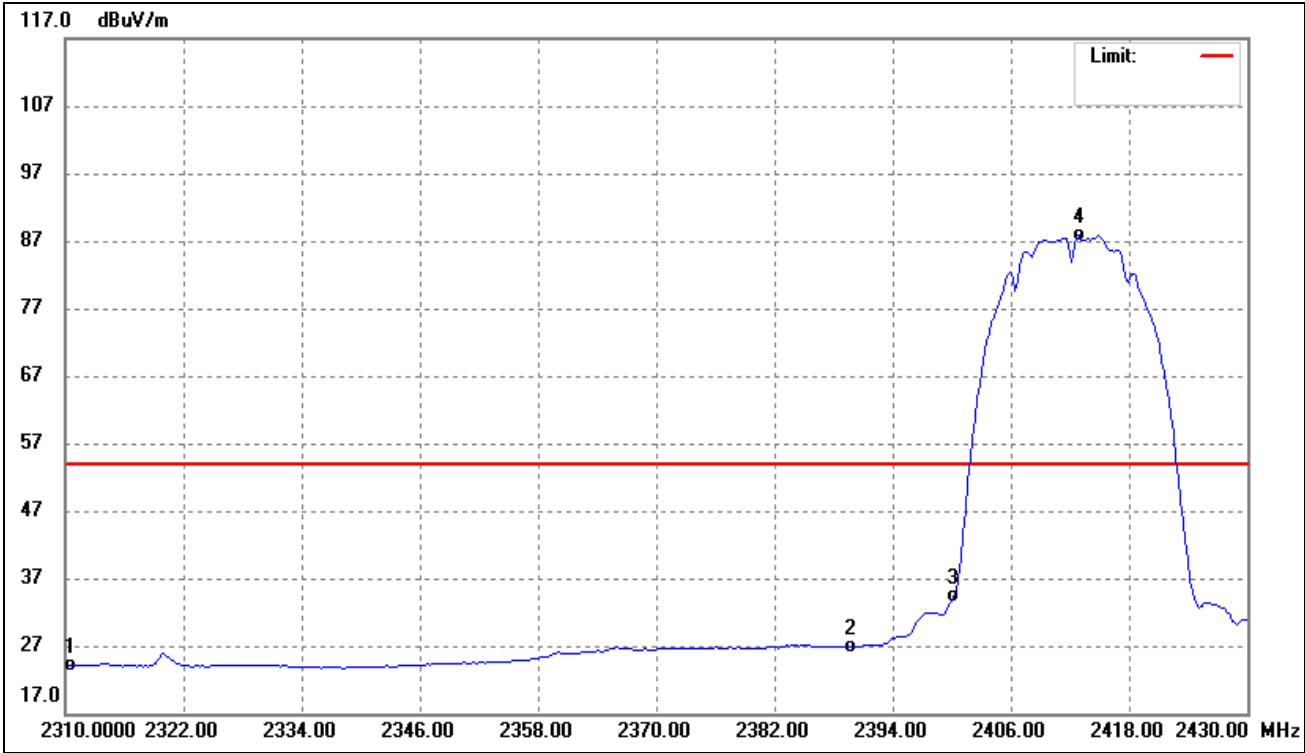
If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

### 8.3 Summary of Test Results/Plots

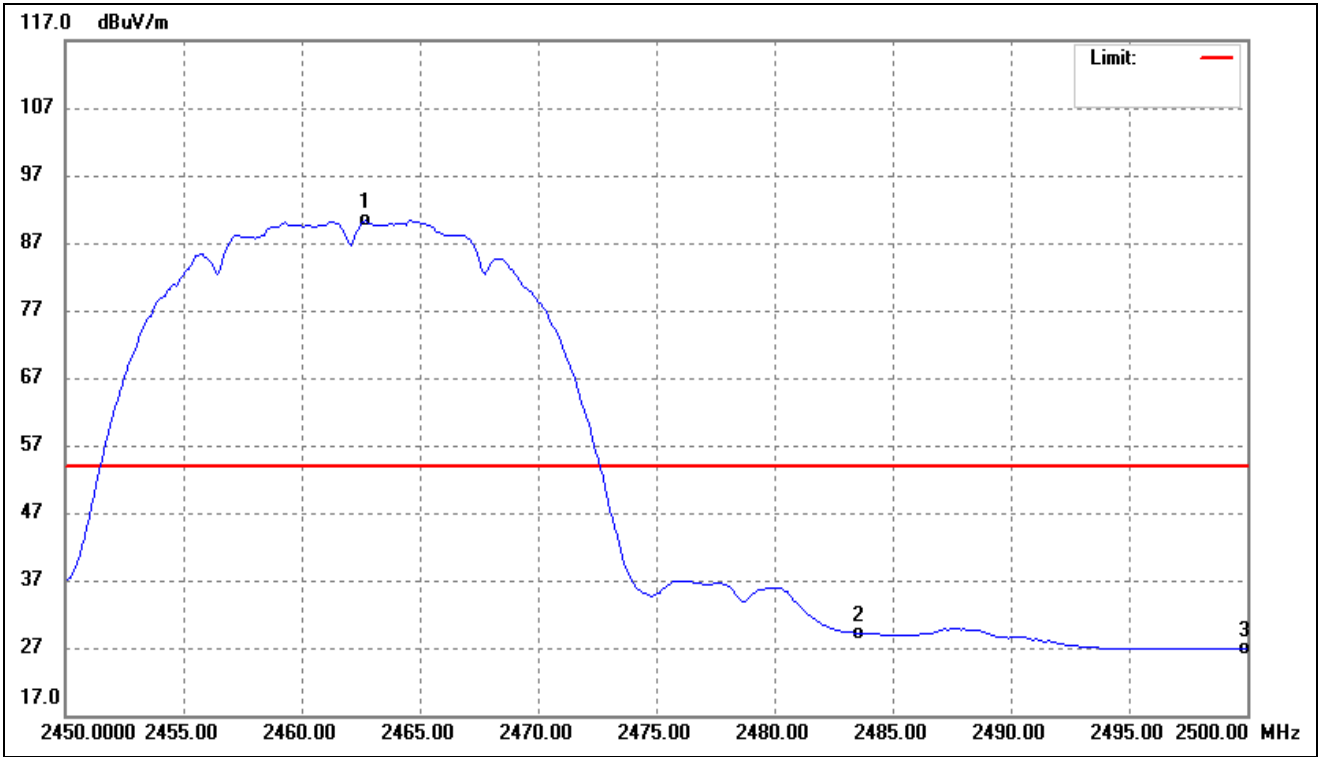
➤ Radiated test

|                |     |           |                        |
|----------------|-----|-----------|------------------------|
| 802.11b_11Mbps |     |           |                        |
| Test Channel   | Low | Polarity: | Horizontal(worst case) |



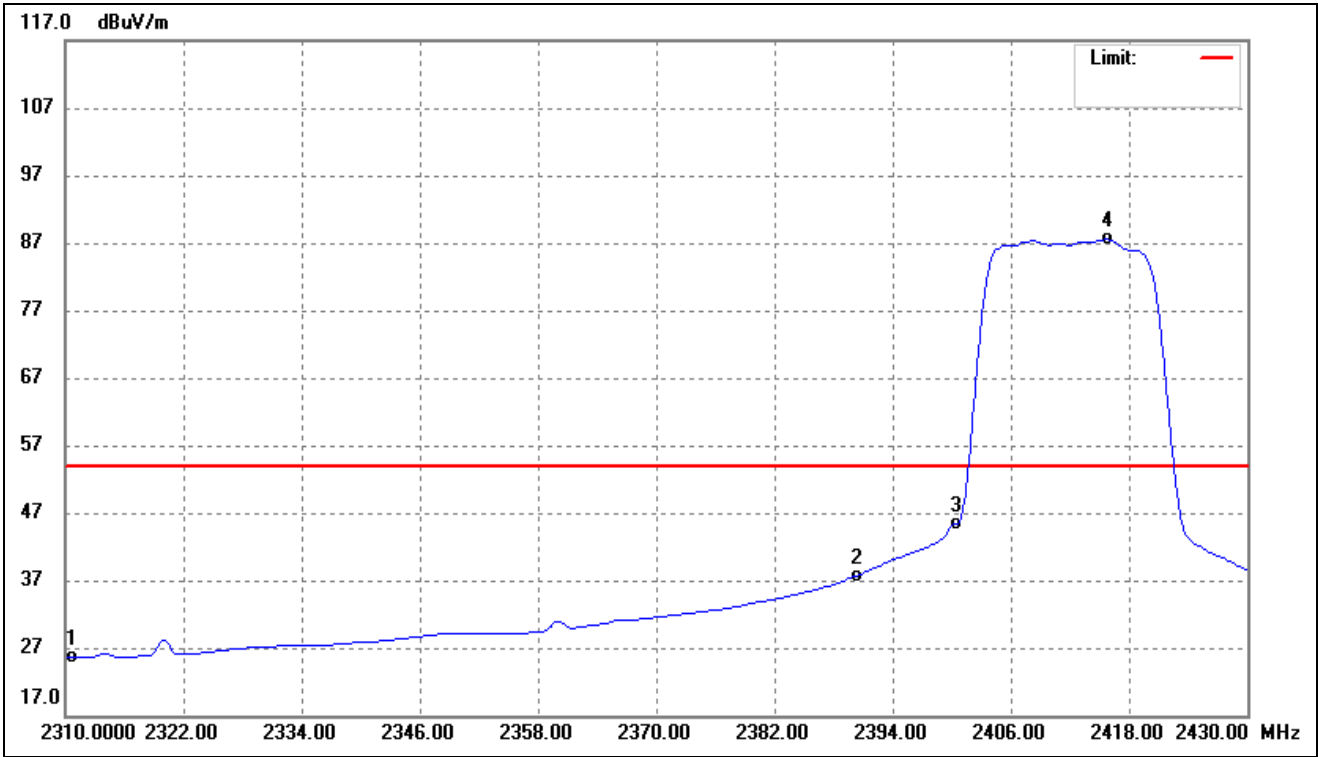
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark           |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|------------------|
| 1   | 2310.000           | 43.67               | -19.50          | 24.17              | 54.00             | -29.83         | Average Detector |
|     | 2310.000           | 57.11               | -19.50          | 37.61              | 74.00             | -36.39         | Peak Detector    |
| 2   | 2390.000           | 46.21               | -19.31          | 26.90              | 54.00             | -27.10         | Average Detector |
|     | 2390.000           | 68.66               | -19.31          | 49.35              | 74.00             | -24.65         | Peak Detector    |
| 3   | 2400.000           | 53.73               | -19.29          | 34.44              | 54.00             | -19.56         | Average Detector |
|     | 2400.000           | 79.04               | -19.29          | 59.75              | 74.00             | -14.25         | Peak Detector    |
| 4   | 2412.926           | 107.04              | -19.25          | 87.79              | /                 | /              | Average Detector |
|     | 2411.964           | 119.88              | -19.25          | 100.63             | /                 | /              | Peak Detector    |

|                |      |           |                        |
|----------------|------|-----------|------------------------|
| 802.11b_11Mbps |      |           |                        |
| Test Channel   | High | Polarity: | Horizontal(worst case) |



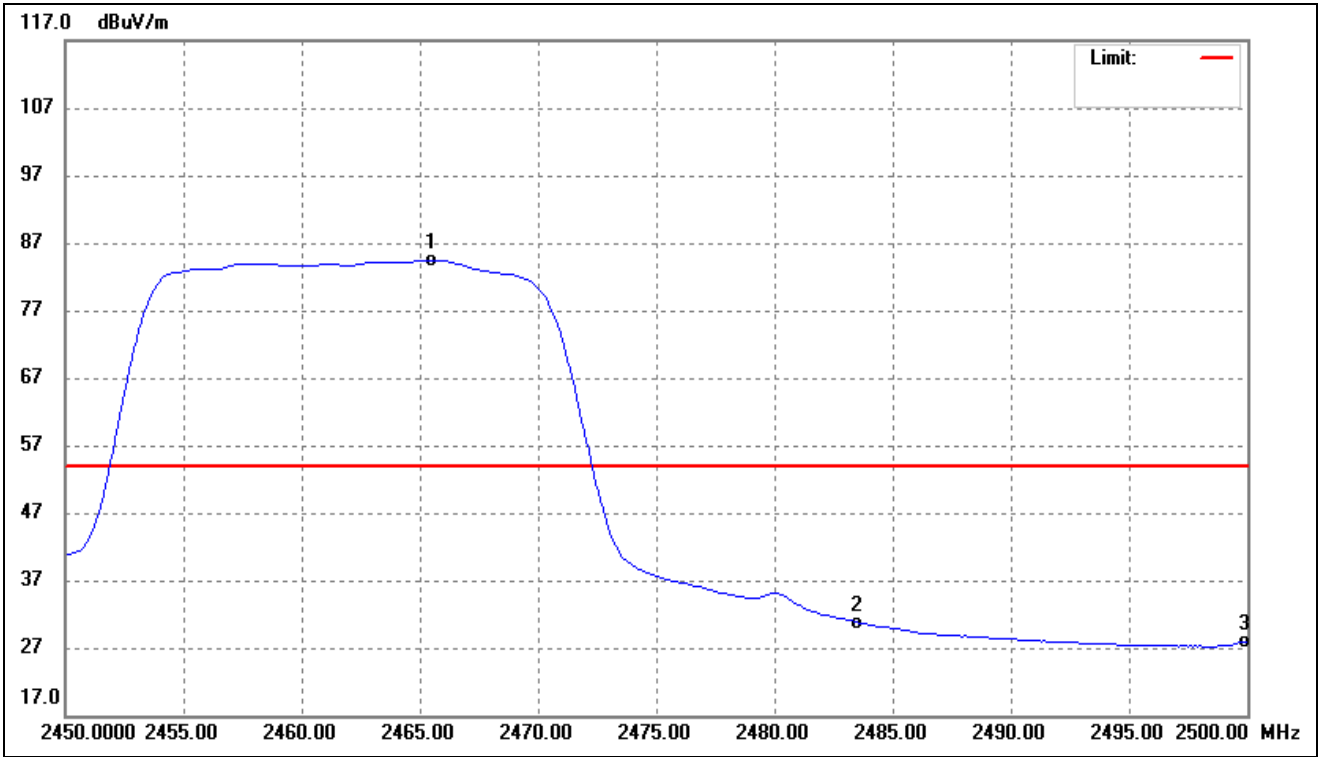
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark           |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|------------------|
| 1   | 2462.725           | 109.41              | -19.14          | 90.27              | /                 | /              | Average Detector |
|     | 2462.024           | 116.76              | -19.14          | 97.62              | /                 | /              | Peak Detector    |
| 2   | 2483.500           | 48.32               | -19.09          | 29.23              | 54.00             | -24.77         | Average Detector |
|     | 2483.500           | 60.71               | -19.09          | 41.62              | 74.00             | -32.38         | Peak Detector    |
| 3   | 2500.000           | 45.97               | -19.05          | 26.92              | 54.00             | -27.08         | Average Detector |
|     | 2500.000           | 58.49               | -19.05          | 39.44              | 74.00             | -34.56         | Peak Detector    |

|                |     |           |                        |
|----------------|-----|-----------|------------------------|
| 802.11g_54Mbps |     |           |                        |
| Test Channel   | Low | Polarity: | Horizontal(worst case) |



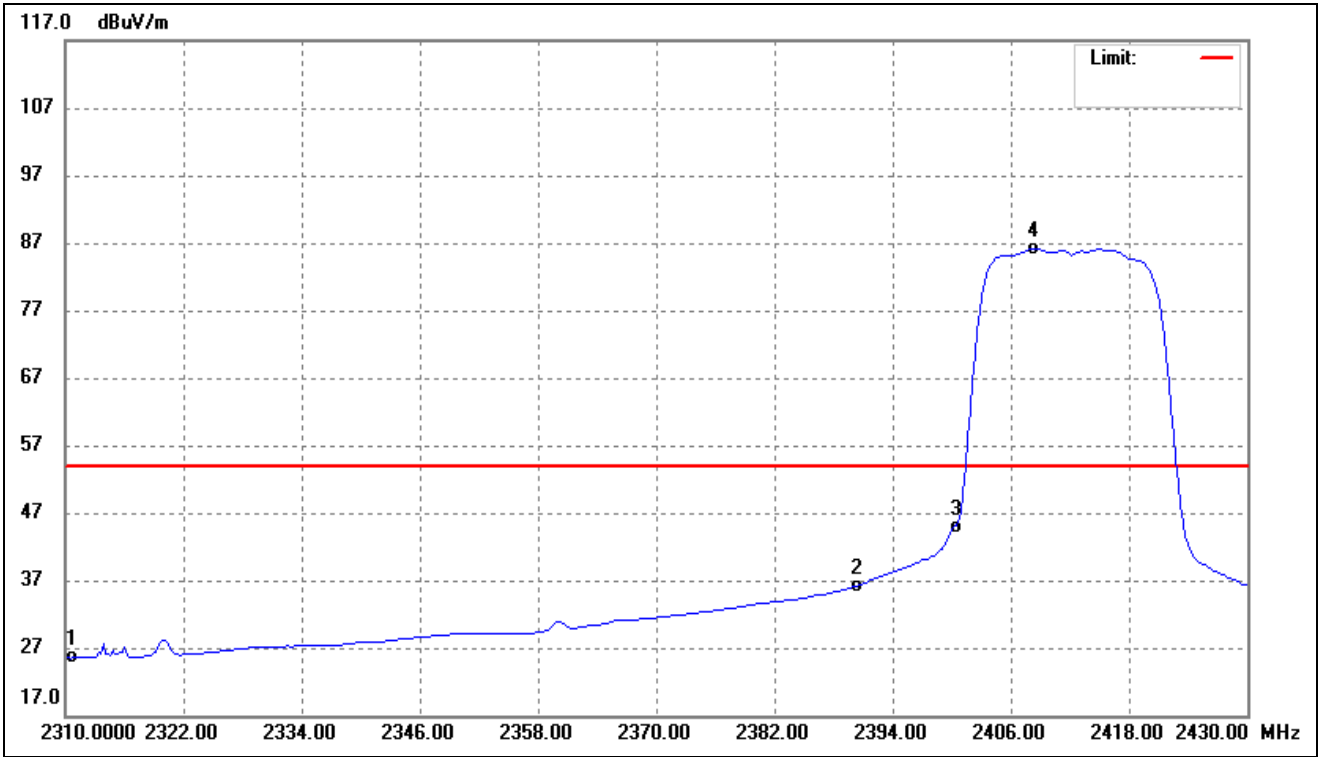
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark           |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|------------------|
| 1   | 2310.000           | 45.04               | -19.50          | 25.54              | 54.00             | -28.46         | Average Detector |
|     | 2310.000           | 58.04               | -19.50          | 38.54              | 74.00             | -35.46         | Peak Detector    |
| 2   | 2390.000           | 56.89               | -19.31          | 37.58              | 54.00             | -16.42         | Average Detector |
|     | 2390.000           | 75.26               | -19.31          | 55.95              | 74.00             | -18.05         | Peak Detector    |
| 3   | 2400.000           | 64.63               | -19.29          | 45.34              | 54.00             | -8.66          | Average Detector |
|     | 2400.000           | 85.42               | -19.29          | 66.13              | 74.00             | -7.87          | Peak Detector    |
| 4   | 2415.571           | 106.76              | -19.25          | 87.51              | /                 | /              | Average Detector |
|     | 2412.204           | 118.65              | -19.25          | 99.40              | /                 | /              | Peak Detector    |

|                |      |           |                        |
|----------------|------|-----------|------------------------|
| 802.11g_54Mbps |      |           |                        |
| Test Channel   | High | Polarity: | Horizontal(worst case) |



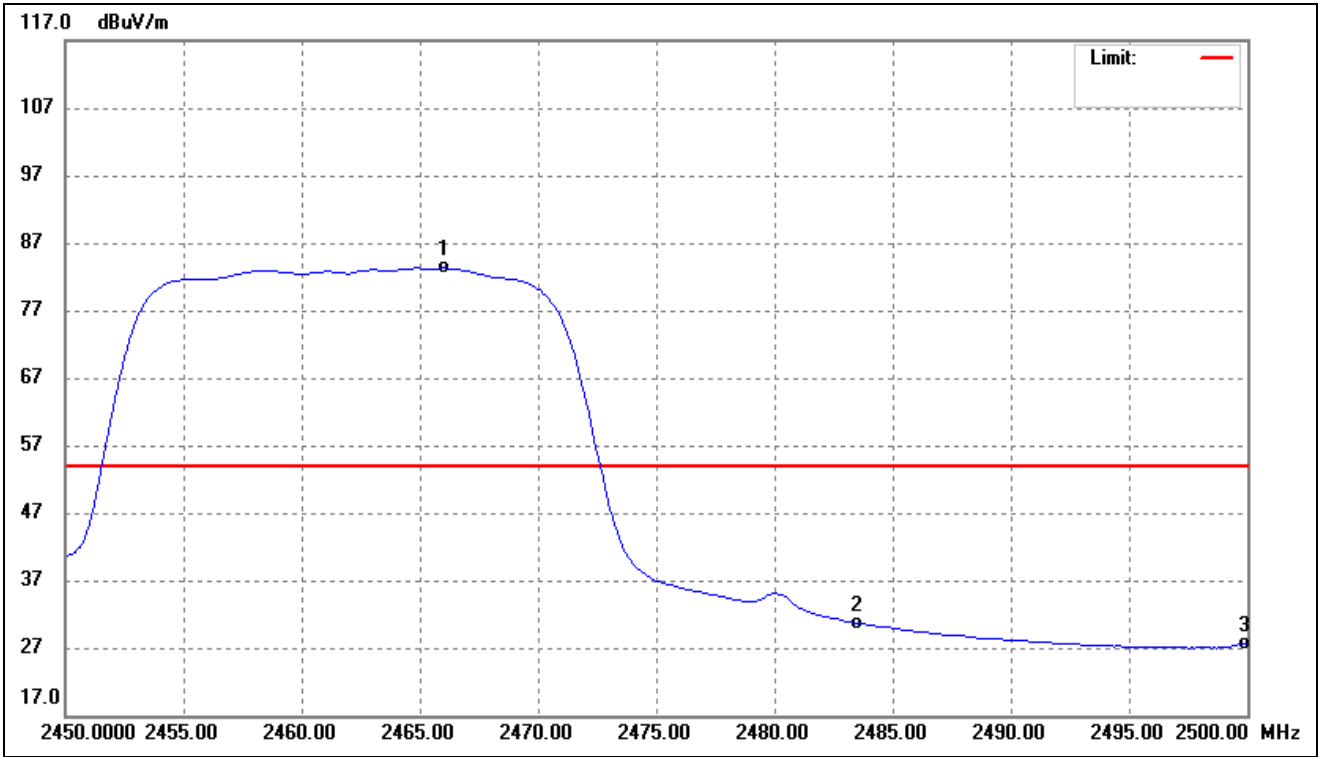
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark           |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|------------------|
| 1   | 2465.431           | 103.58              | -19.14          | 84.44              | /                 | /              | Average Detector |
|     | 2462.224           | 115.88              | -19.14          | 96.74              | /                 | /              | Peak Detector    |
| 2   | 2483.500           | 49.82               | -19.09          | 30.73              | 54.00             | -23.27         | Average Detector |
|     | 2483.500           | 65.19               | -19.09          | 46.10              | 74.00             | -27.90         | Peak Detector    |
| 3   | 2500.000           | 47.01               | -19.05          | 27.96              | 54.00             | -26.04         | Average Detector |
|     | 2500.000           | 60.15               | -19.05          | 41.10              | 74.00             | -32.90         | Peak Detector    |

|                   |     |           |                        |
|-------------------|-----|-----------|------------------------|
| 802.11n-HT20_MCS7 |     |           |                        |
| Test Channel      | Low | Polarity: | Horizontal(worst case) |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark           |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|------------------|
| 1   | 2310.000           | 45.04               | -19.50          | 25.54              | 54.00             | -28.46         | Average Detector |
|     | 2310.000           | 57.15               | -19.50          | 37.65              | 74.00             | -36.35         | Peak Detector    |
| 2   | 2390.000           | 55.42               | -19.31          | 36.11              | 54.00             | -17.89         | Average Detector |
|     | 2390.000           | 71.78               | -19.31          | 52.47              | 74.00             | -21.53         | Peak Detector    |
| 3   | 2400.000           | 64.08               | -19.29          | 44.79              | 54.00             | -9.21          | Average Detector |
|     | 2400.000           | 82.00               | -19.29          | 62.71              | 74.00             | -11.29         | Peak Detector    |
| 4   | 2408.357           | 105.43              | -19.26          | 86.17              | /                 | /              | Average Detector |
|     | 2411.964           | 119.15              | -19.25          | 99.90              | /                 | /              | Peak Detector    |

|                   |      |           |                        |
|-------------------|------|-----------|------------------------|
| 802.11n-HT20_MCS7 |      |           |                        |
| Test Channel      | High | Polarity: | Horizontal(worst case) |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark           |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------------|
| 1   | 2466.032        | 102.42           | -19.13         | 83.29           | /              | /           | Average Detector |
|     | 2462.024        | 116.04           | -19.14         | 96.90           | /              | /           | Peak Detector    |
| 2   | 2483.500        | 49.71            | -19.09         | 30.62           | 54.00          | -23.38      | Average Detector |
|     | 2483.500        | 64.07            | -19.09         | 44.98           | 74.00          | -29.02      | Peak Detector    |
| 3   | 2500.000        | 46.78            | -19.05         | 27.73           | 54.00          | -26.27      | Average Detector |
|     | 2500.000        | 58.25            | -19.05         | 39.20           | 74.00          | -34.80      | Peak Detector    |

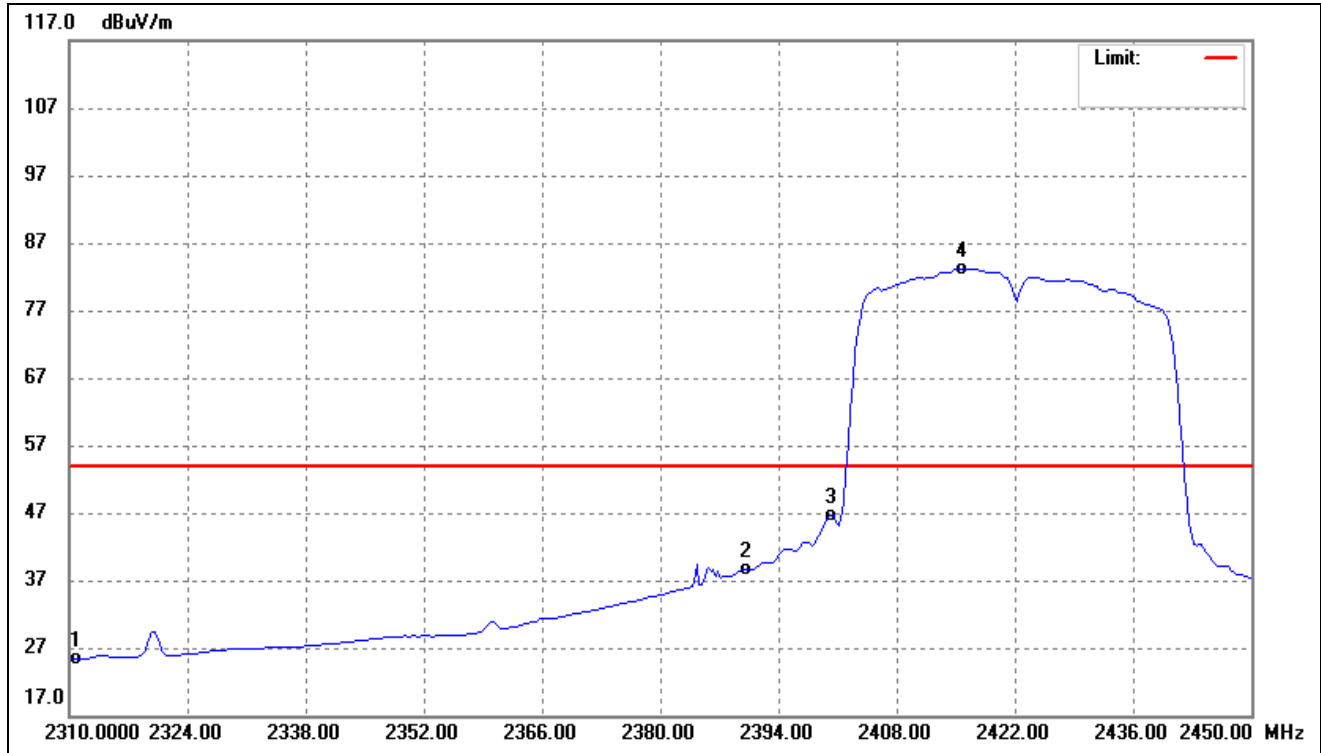
802.11n-HT40\_MCS7

Test Channel

Low

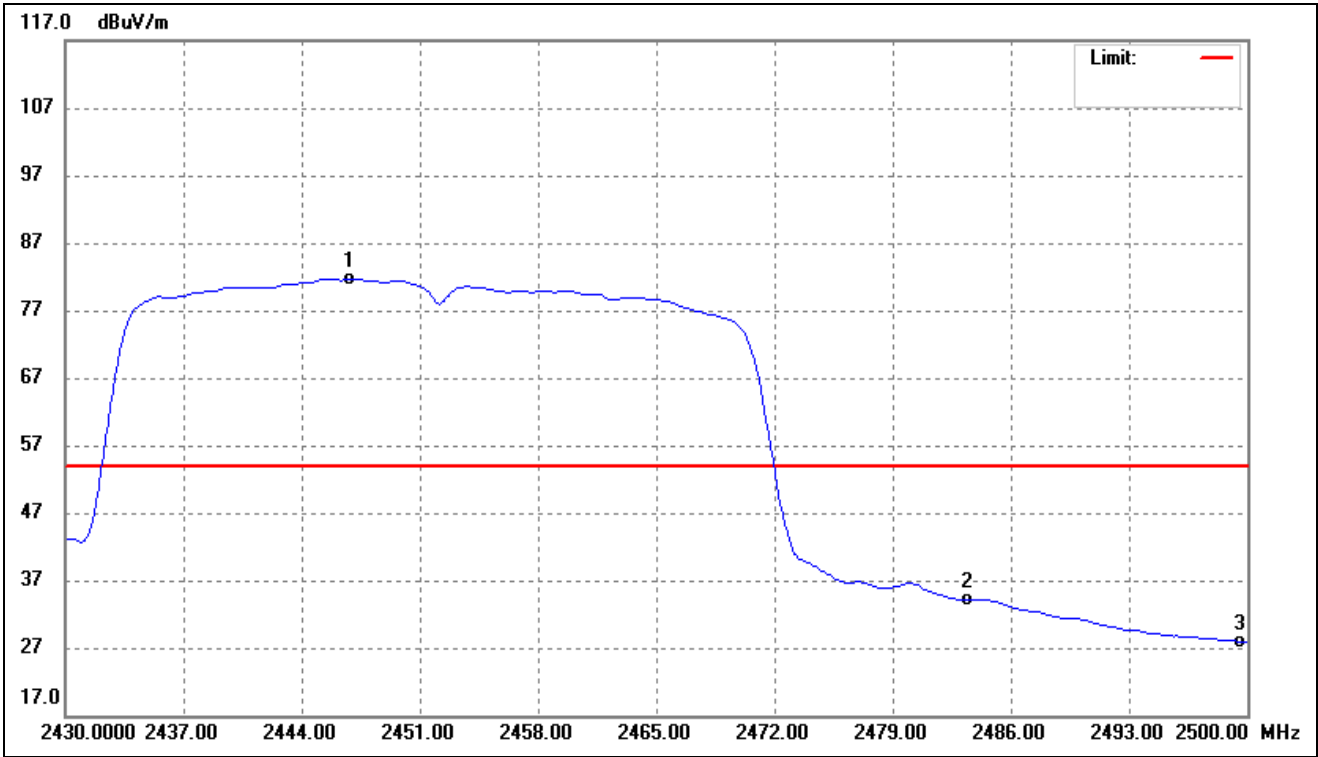
Polarity:

Horizontal(worst case)



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark           |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|------------------|
| 1   | 2310.000           | 44.92               | -19.50          | 25.42              | 54.00             | -28.58         | Average Detector |
|     | 2310.000           | 57.68               | -19.50          | 38.18              | 74.00             | -35.82         | Peak Detector    |
| 2   | 2390.000           | 58.01               | -19.31          | 38.70              | 54.00             | -15.30         | Average Detector |
|     | 2390.000           | 82.50               | -19.31          | 63.19              | 74.00             | -10.81         | Peak Detector    |
| 3   | 2400.000           | 66.01               | -19.29          | 46.72              | 54.00             | -7.28          | Average Detector |
|     | 2400.000           | 81.08               | -19.29          | 61.79              | 74.00             | -12.21         | Peak Detector    |
| 4   | 2415.491           | 102.49              | -19.25          | 83.24              | /                 | /              | Average Detector |
|     | 2415.210           | 114.19              | -19.25          | 94.94              | /                 | /              | Peak Detector    |

|                   |      |           |                        |
|-------------------|------|-----------|------------------------|
| 802.11n-HT40_MCS7 |      |           |                        |
| Test Channel      | High | Polarity: | Horizontal(worst case) |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark           |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------------|
| 1   | 2446.834        | 100.80           | -19.18         | 81.62           | /              | /           | Average Detector |
|     | 2444.870        | 112.26           | -19.18         | 93.08           | /              | /           | Peak Detector    |
| 2   | 2483.500        | 53.11            | -19.09         | 34.02           | 54.00          | -19.98      | Average Detector |
|     | 2483.500        | 72.10            | -19.09         | 53.01           | 74.00          | -20.99      | Peak Detector    |
| 3   | 2500.000        | 46.93            | -19.05         | 27.88           | 54.00          | -26.12      | Average Detector |
|     | 2500.000        | 62.32            | -19.05         | 43.27           | 74.00          | -30.73      | Peak Detector    |

➤ Conducted test  
Please refer to Appendix D

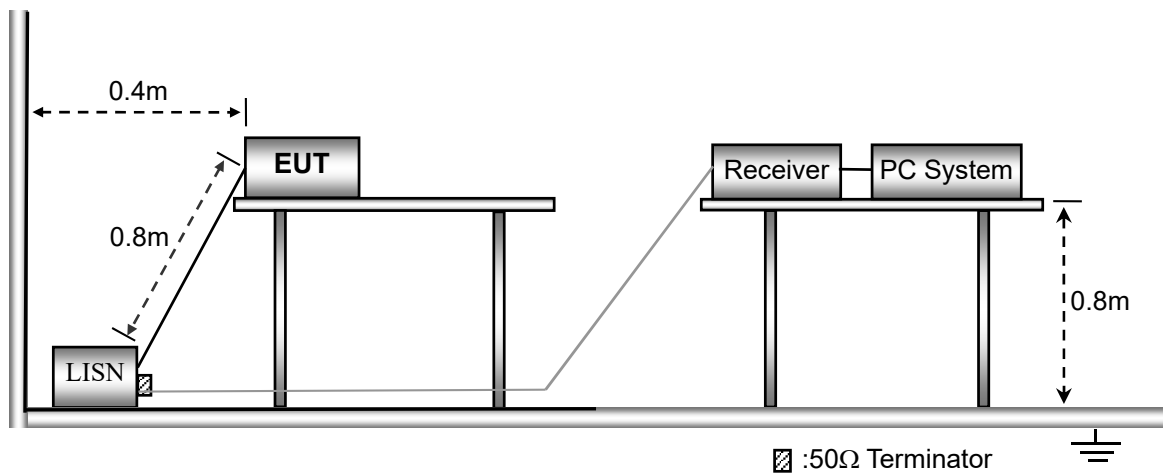
## 9. Conducted Emissions

### 9.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

### 9.2 Basic Test Setup Block Diagram



### 9.3 Test Receiver Setup

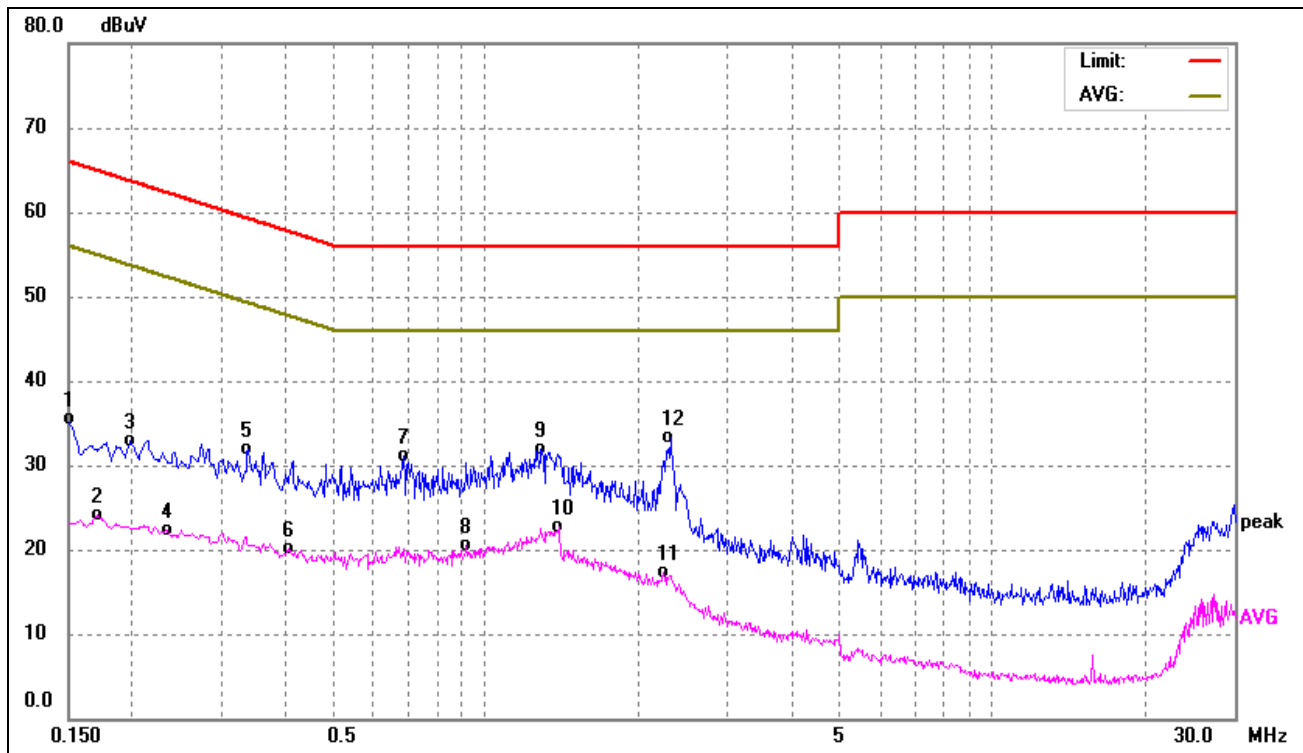
During the conducted emission test, the test receiver was set with the following configurations:

|                                    |        |
|------------------------------------|--------|
| Start Frequency .....              | 150kHz |
| Stop Frequency .....               | 30MHz  |
| Sweep Speed .....                  | Auto   |
| IF Bandwidth .....                 | 10kHz  |
| Quasi-Peak Adapter Bandwidth ..... | 9kHz   |
| Quasi-Peak Adapter Mode .....      | Normal |

### 9.4 Summary of Test Results/Plots

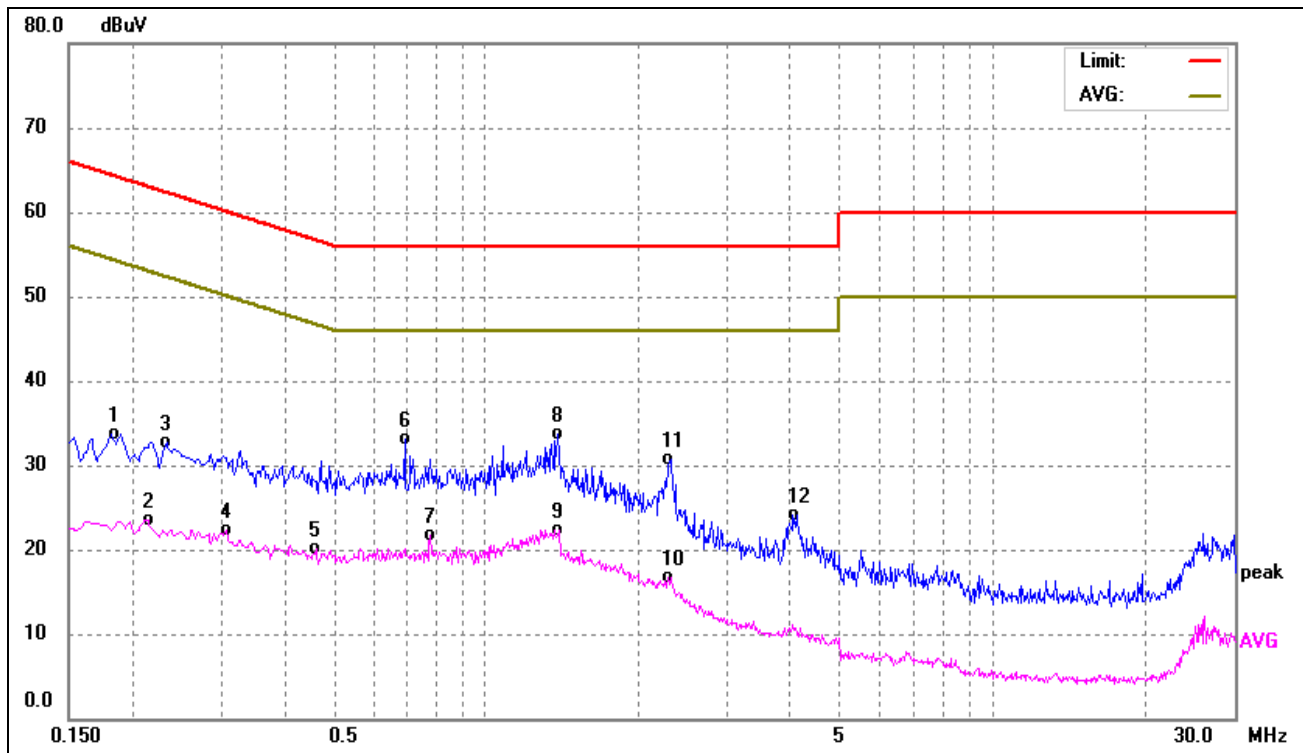
Model: WSUS-WF03

|           |               |             |           |         |
|-----------|---------------|-------------|-----------|---------|
| Test Mode | Communication | AC120V 60Hz | Polarity: | Neutral |
|-----------|---------------|-------------|-----------|---------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1   | 0.1500             | 25.97             | 9.53            | 35.50            | 65.99           | -30.49         | QP     |
| 2   | 0.1700             | 14.42             | 9.61            | 24.03            | 54.96           | -30.93         | AVG    |
| 3   | 0.1980             | 23.20             | 9.72            | 32.92            | 63.69           | -30.77         | QP     |
| 4   | 0.2340             | 12.69             | 9.70            | 22.39            | 52.30           | -29.91         | AVG    |
| 5   | 0.3379             | 22.30             | 9.59            | 31.89            | 59.25           | -27.36         | QP     |
| 6   | 0.4060             | 10.56             | 9.53            | 20.09            | 47.73           | -27.64         | AVG    |
| 7   | 0.6860             | 21.67             | 9.53            | 31.20            | 56.00           | -24.80         | QP     |
| 8   | 0.9140             | 11.11             | 9.48            | 20.59            | 46.00           | -25.41         | AVG    |
| 9   | 1.2860             | 22.33             | 9.60            | 31.93            | 56.00           | -24.07         | QP     |
| 10  | 1.3939             | 12.95             | 9.66            | 22.61            | 46.00           | -23.39         | AVG    |
| 11  | 2.2379             | 7.39              | 9.91            | 17.30            | 46.00           | -28.70         | AVG    |
| 12  | 2.3179             | 23.34             | 9.90            | 33.24            | 56.00           | -22.76         | QP     |

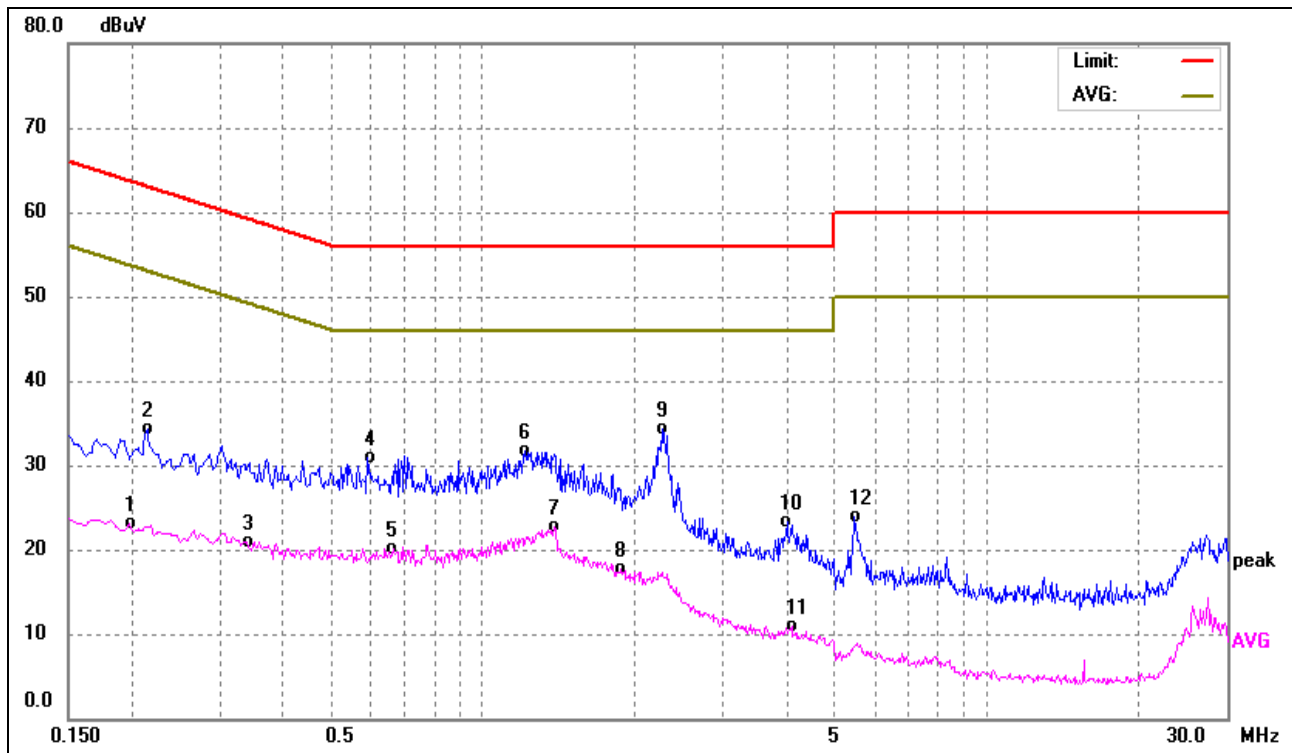
|           |               |             |           |      |
|-----------|---------------|-------------|-----------|------|
| Test Mode | Communication | AC120V 60Hz | Polarity: | Line |
|-----------|---------------|-------------|-----------|------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1   | 0.1819             | 24.07             | 9.66            | 33.73            | 64.39           | -30.66         | QP     |
| 2   | 0.2139             | 13.83             | 9.72            | 23.55            | 53.05           | -29.50         | AVG    |
| 3   | 0.2340             | 22.94             | 9.70            | 32.64            | 62.30           | -29.66         | QP     |
| 4   | 0.3059             | 12.63             | 9.62            | 22.25            | 50.08           | -27.83         | AVG    |
| 5   | 0.4620             | 10.65             | 9.49            | 20.14            | 46.66           | -26.52         | AVG    |
| 6   | 0.6899             | 23.54             | 9.54            | 33.08            | 56.00           | -22.92         | QP     |
| 7   | 0.7780             | 12.11             | 9.52            | 21.63            | 46.00           | -24.37         | AVG    |
| 8   | 1.3859             | 24.12             | 9.65            | 33.77            | 56.00           | -22.23         | QP     |
| 9   | 1.3939             | 12.74             | 9.66            | 22.40            | 46.00           | -23.60         | AVG    |
| 10  | 2.2940             | 6.89              | 9.90            | 16.79            | 46.00           | -29.21         | AVG    |
| 11  | 2.3100             | 20.76             | 9.90            | 30.66            | 56.00           | -25.34         | QP     |
| 12  | 4.1020             | 14.63             | 9.56            | 24.19            | 56.00           | -31.81         | QP     |

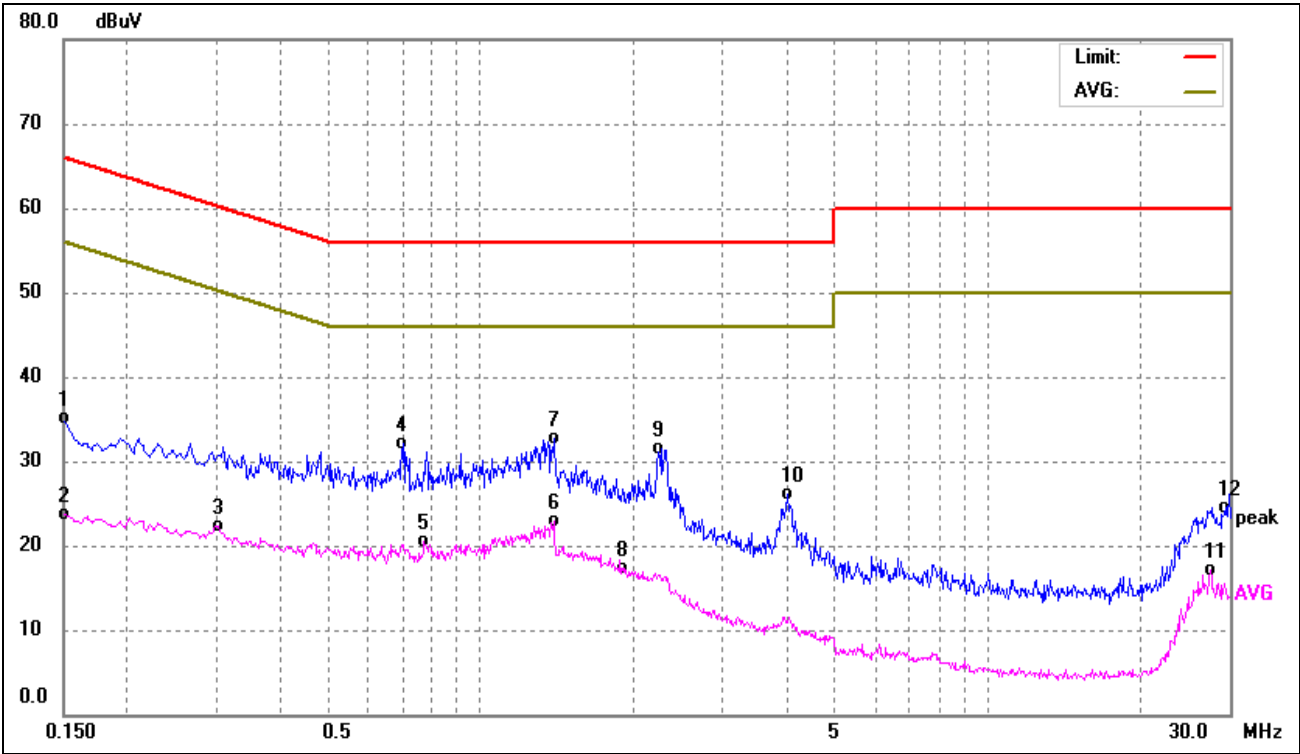
Model: WSUS-WF01

|           |               |             |           |         |
|-----------|---------------|-------------|-----------|---------|
| Test Mode | Communication | AC120V 60Hz | Polarity: | Neutral |
|-----------|---------------|-------------|-----------|---------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1   | 0.1980             | 13.39             | 9.72            | 23.11            | 53.69           | -30.58         | AVG    |
| 2   | 0.2139             | 24.54             | 9.72            | 34.26            | 63.05           | -28.79         | QP     |
| 3   | 0.3379             | 11.40             | 9.59            | 20.99            | 49.25           | -28.26         | AVG    |
| 4   | 0.5899             | 21.46             | 9.49            | 30.95            | 56.00           | -25.05         | QP     |
| 5   | 0.6620             | 10.57             | 9.52            | 20.09            | 46.00           | -25.91         | AVG    |
| 6   | 1.2140             | 22.16             | 9.57            | 31.73            | 56.00           | -24.27         | QP     |
| 7   | 1.3859             | 13.09             | 9.65            | 22.74            | 46.00           | -23.26         | AVG    |
| 8   | 1.8859             | 7.78              | 9.90            | 17.68            | 46.00           | -28.32         | AVG    |
| 9   | 2.2659             | 24.34             | 9.91            | 34.25            | 56.00           | -21.75         | QP     |
| 10  | 4.0259             | 13.83             | 9.56            | 23.39            | 56.00           | -32.61         | QP     |
| 11  | 4.1020             | 1.33              | 9.56            | 10.89            | 46.00           | -35.11         | AVG    |
| 12  | 5.4660             | 14.26             | 9.62            | 23.88            | 60.00           | -36.12         | QP     |

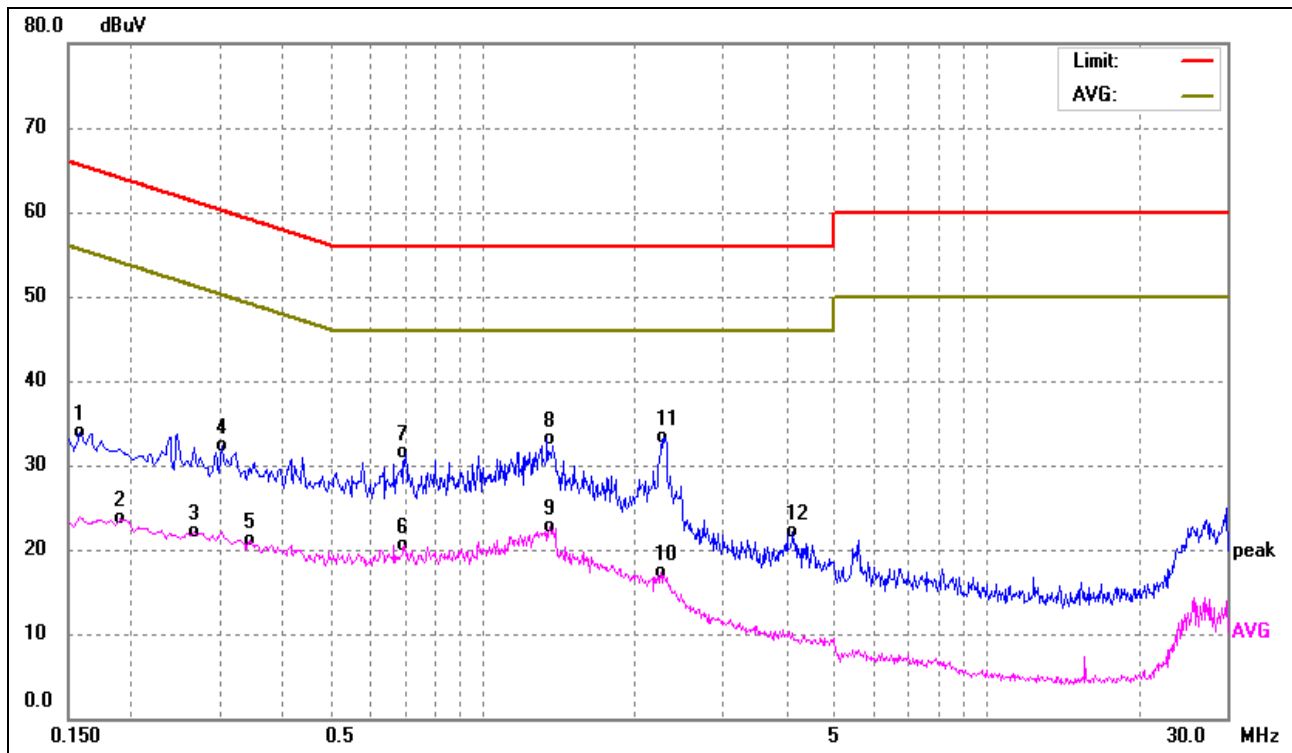
|           |               |             |           |      |
|-----------|---------------|-------------|-----------|------|
| Test Mode | Communication | AC120V 60Hz | Polarity: | Line |
|-----------|---------------|-------------|-----------|------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1   | 0.1500             | 25.52             | 9.53            | 35.05            | 65.99           | -30.94         | QP     |
| 2   | 0.1500             | 14.15             | 9.53            | 23.68            | 55.99           | -32.31         | AVG    |
| 3   | 0.3020             | 12.75             | 9.63            | 22.38            | 50.19           | -27.81         | AVG    |
| 4   | 0.7019             | 22.63             | 9.54            | 32.17            | 56.00           | -23.83         | QP     |
| 5   | 0.7740             | 10.94             | 9.52            | 20.46            | 46.00           | -25.54         | AVG    |
| 6   | 1.3940             | 13.17             | 9.66            | 22.83            | 46.00           | -23.17         | AVG    |
| 7   | 1.3980             | 23.00             | 9.66            | 32.66            | 56.00           | -23.34         | QP     |
| 8   | 1.9100             | 7.46              | 9.92            | 17.38            | 46.00           | -28.62         | AVG    |
| 9   | 2.2740             | 21.59             | 9.91            | 31.50            | 56.00           | -24.50         | QP     |
| 10  | 4.0380             | 16.63             | 9.56            | 26.19            | 56.00           | -29.81         | QP     |
| 11  | 27.5100            | 6.95              | 10.08           | 17.03            | 50.00           | -32.97         | AVG    |
| 12  | 29.5020            | 14.33             | 10.14           | 24.47            | 60.00           | -35.53         | QP     |

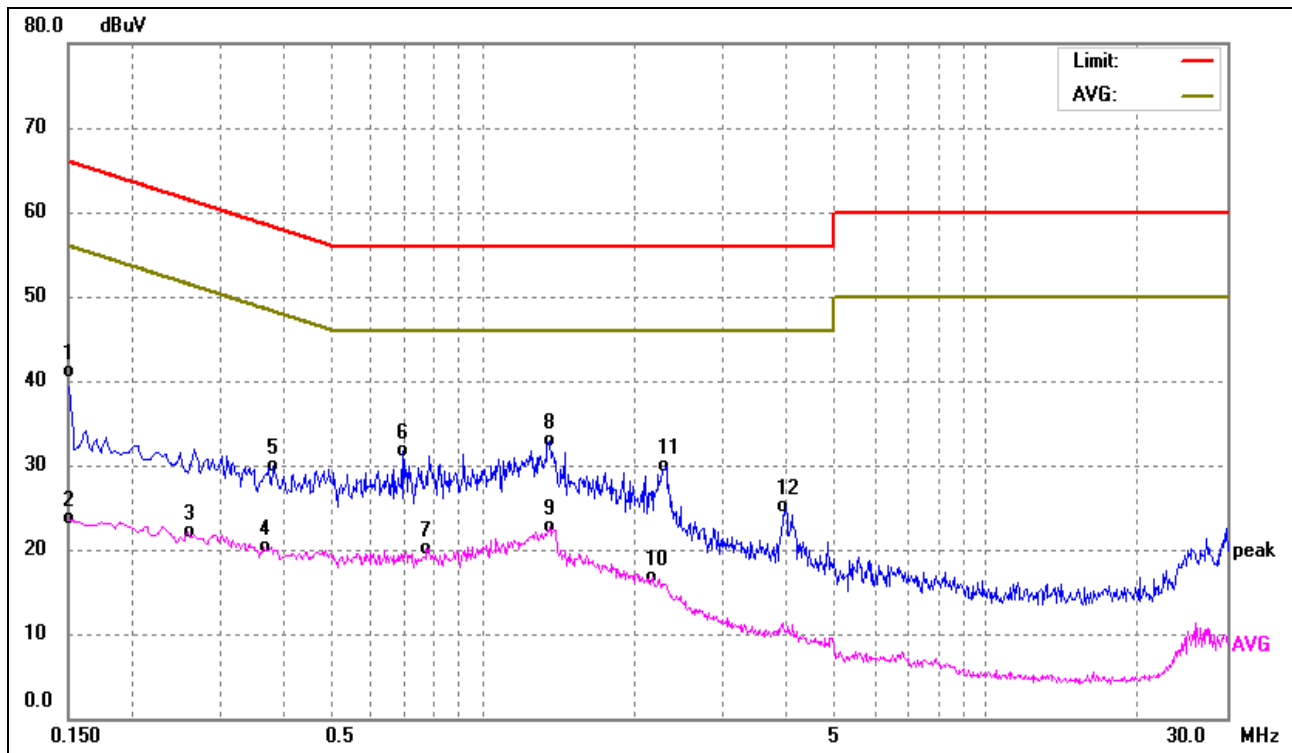
Model: WSUS-WF02

|           |               |             |           |         |
|-----------|---------------|-------------|-----------|---------|
| Test Mode | Communication | AC120V 60Hz | Polarity: | Neutral |
|-----------|---------------|-------------|-----------|---------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1   | 0.1580             | 24.26             | 9.56            | 33.82            | 65.56           | -31.74         | QP     |
| 2   | 0.1900             | 13.93             | 9.69            | 23.62            | 54.03           | -30.41         | AVG    |
| 3   | 0.2660             | 12.52             | 9.66            | 22.18            | 51.24           | -29.06         | AVG    |
| 4   | 0.3019             | 22.69             | 9.63            | 32.32            | 60.19           | -27.87         | QP     |
| 5   | 0.3420             | 11.55             | 9.59            | 21.14            | 49.15           | -28.01         | AVG    |
| 6   | 0.6979             | 11.06             | 9.54            | 20.60            | 46.00           | -25.40         | AVG    |
| 7   | 0.7019             | 21.97             | 9.54            | 31.51            | 56.00           | -24.49         | QP     |
| 8   | 1.3420             | 23.51             | 9.63            | 33.14            | 56.00           | -22.86         | QP     |
| 9   | 1.3580             | 13.01             | 9.64            | 22.65            | 46.00           | -23.35         | AVG    |
| 10  | 2.2500             | 7.30              | 9.91            | 17.21            | 46.00           | -28.79         | AVG    |
| 11  | 2.3020             | 23.47             | 9.90            | 33.37            | 56.00           | -22.63         | QP     |
| 12  | 4.1260             | 12.64             | 9.56            | 22.20            | 56.00           | -33.80         | QP     |

|           |               |             |           |      |
|-----------|---------------|-------------|-----------|------|
| Test Mode | Communication | AC120V 60Hz | Polarity: | Line |
|-----------|---------------|-------------|-----------|------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1   | 0.1500             | 31.57             | 9.53            | 41.10            | 65.99           | -24.89         | QP     |
| 2   | 0.1500             | 14.23             | 9.53            | 23.76            | 55.99           | -32.23         | AVG    |
| 3   | 0.2580             | 12.35             | 9.67            | 22.02            | 51.49           | -29.47         | AVG    |
| 4   | 0.3659             | 10.80             | 9.57            | 20.37            | 48.59           | -28.22         | AVG    |
| 5   | 0.3820             | 20.28             | 9.56            | 29.84            | 58.23           | -28.39         | QP     |
| 6   | 0.6899             | 22.22             | 9.54            | 31.76            | 56.00           | -24.24         | QP     |
| 7   | 0.7740             | 10.67             | 9.52            | 20.19            | 46.00           | -25.81         | AVG    |
| 8   | 1.3580             | 23.22             | 9.64            | 32.86            | 56.00           | -23.14         | QP     |
| 9   | 1.3580             | 13.00             | 9.64            | 22.64            | 46.00           | -23.36         | AVG    |
| 10  | 2.1779             | 6.71              | 9.92            | 16.63            | 46.00           | -29.37         | AVG    |
| 11  | 2.3179             | 20.07             | 9.90            | 29.97            | 56.00           | -26.03         | QP     |
| 12  | 4.0060             | 15.53             | 9.56            | 25.09            | 56.00           | -30.91         | QP     |

APPENDIX SUMMARY

|                   |                    |               |               |
|-------------------|--------------------|---------------|---------------|
| Project No.       | WTX25X08227971W001 | Test Engineer | Jennifer Song |
| Start date        | 2025/8/29          | Finish date   | 2025/9/5      |
| Temperature       | 22.4℃              | Humidity      | 58%           |
| RF specifications | WIFI-2.4G          |               |               |

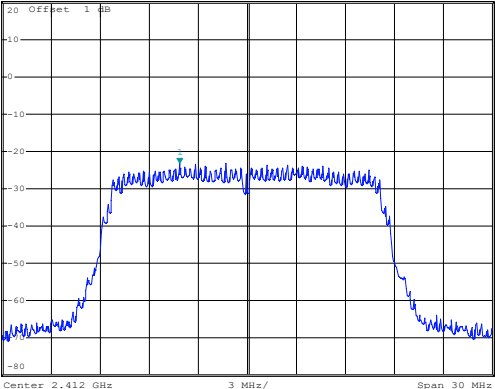
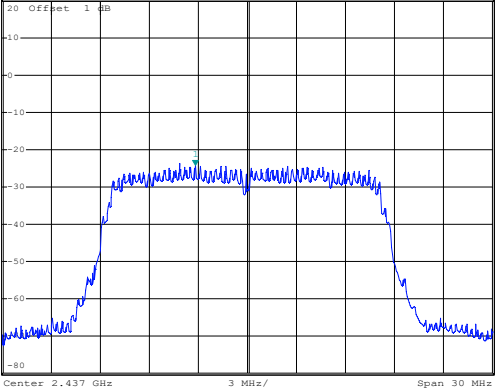
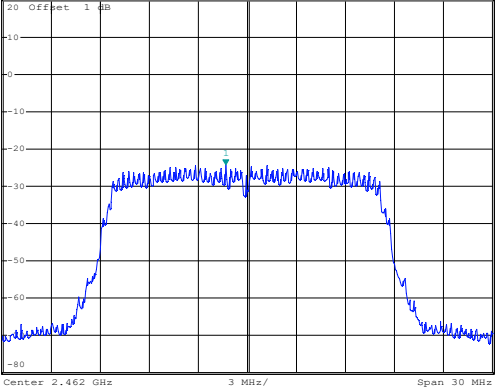
| APPENDIX | Description of Test Item        | Result    |
|----------|---------------------------------|-----------|
| A        | Power Spectral Density          | Compliant |
| B        | DTS Bandwidth                   | Compliant |
| C        | RF Output Power                 | Compliant |
| D        | Conducted Out of Band Emissions | Compliant |

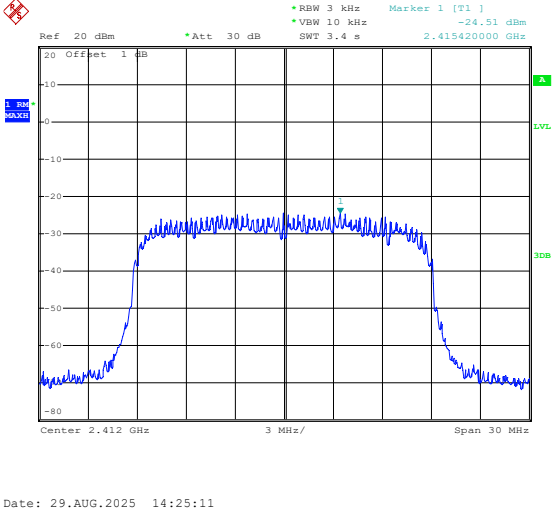
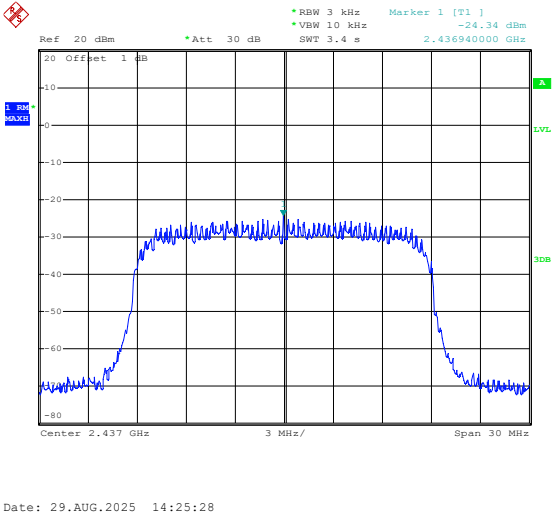
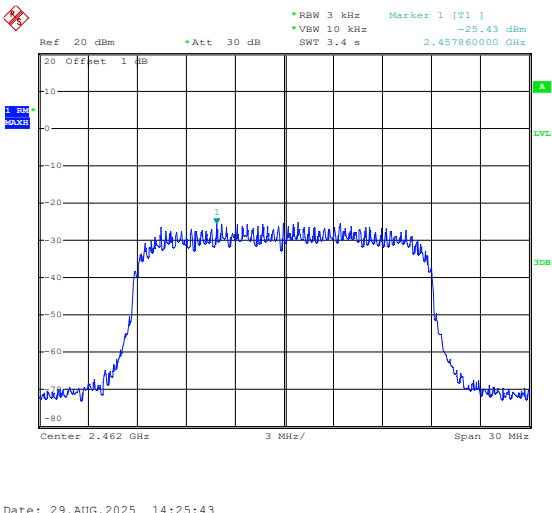
## APPENDIX A

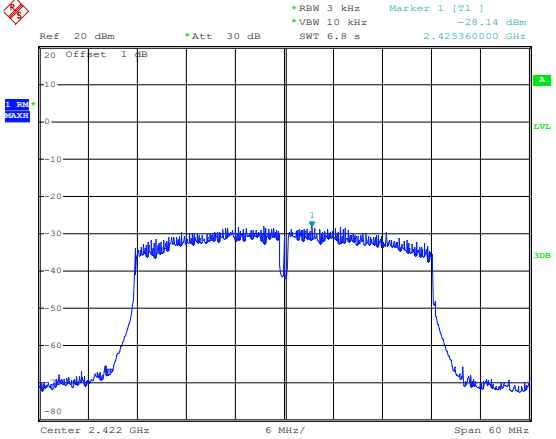
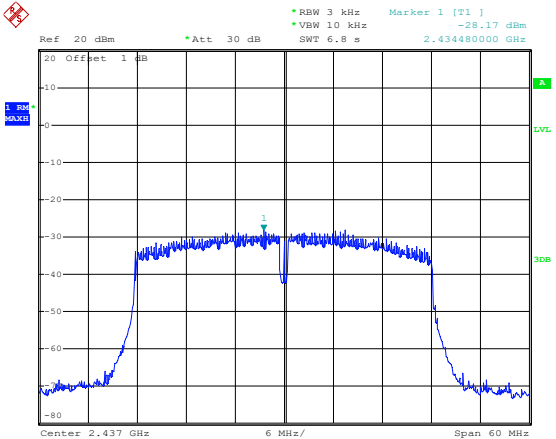
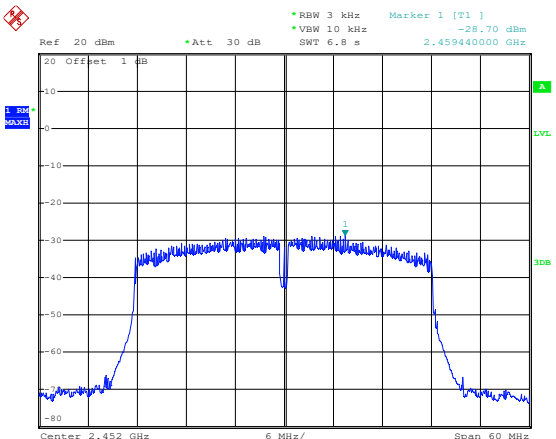
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| Power Spectral Density |                     |                                    |                   |
|------------------------|---------------------|------------------------------------|-------------------|
| Test Mode              | Test Channel<br>MHz | Power Spectral Density<br>dBm/3kHz | Limit<br>dBm/3kHz |
| 802.11b_11Mbps         | 2412                | -18.80                             | 8                 |
|                        | 2437                | -19.88                             | 8                 |
|                        | 2462                | -19.73                             | 8                 |
| 802.11g_54Mbps         | 2412                | -23.12                             | 8                 |
|                        | 2437                | -24.12                             | 8                 |
|                        | 2462                | -24.31                             | 8                 |
| 802.11n-HT20_MCS7      | 2412                | -24.51                             | 8                 |
|                        | 2437                | -24.34                             | 8                 |
|                        | 2462                | -25.43                             | 8                 |
| 802.11n-HT40_MCS7      | 2422                | -28.14                             | 8                 |
|                        | 2437                | -28.17                             | 8                 |
|                        | 2452                | -28.70                             | 8                 |

| Channel        | Center Frequency (GHz) | Span (MHz) | Ref (dBm) | Att (dB) | RBW (kHz) | VBW (kHz) | SWT (s) | Marker 1 [T1] (GHz) | Marker 1 [T1] (dBm) |
|----------------|------------------------|------------|-----------|----------|-----------|-----------|---------|---------------------|---------------------|
| 802.11b-Low    | 2.412                  | 30         | 20        | 30       | 3         | 10        | 3.4     | 2.41340000          | -18.80              |
| 802.11b-Middle | 2.437                  | 30         | 20        | 30       | 3         | 10        | 3.4     | 2.43622000          | -19.88              |
| 802.11b-High   | 2.462                  | 30         | 20        | 30       | 3         | 10        | 3.4     | 2.46134000          | -19.73              |

|                       |                                                                                                                                                                                                                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>802.11g-Low</p>    | <div><p>Ref 20 dBm    *Att 30 dB    *RBW 3 kHz    *VBW 10 kHz    Marker 1 [T1]    -23.12 dBm    2.407860000 GHz    3.4 s</p><p>Center 2.412 GHz    3 MHz/    Span 30 MHz</p><p>Date: 29.AUG.2025    14:22:47</p></div>     |
| <p>802.11g-Middle</p> | <div><p>Ref 20 dBm    *Att 30 dB    *RBW 3 kHz    *VBW 10 kHz    Marker 1 [T1]    -24.12 dBm    2.433820000 GHz    3.4 s</p><p>Center 2.437 GHz    3 MHz/    Span 30 MHz</p><p>Date: 29.AUG.2025    14:23:04</p></div>   |
| <p>802.11g-High</p>   | <div><p>Ref 20 dBm    *Att 30 dB    *RBW 3 kHz    *VBW 10 kHz    Marker 1 [T1]    -24.31 dBm    2.460680000 GHz    3.4 s</p><p>Center 2.462 GHz    3 MHz/    Span 30 MHz</p><p>Date: 29.AUG.2025    14:23:23</p></div> |

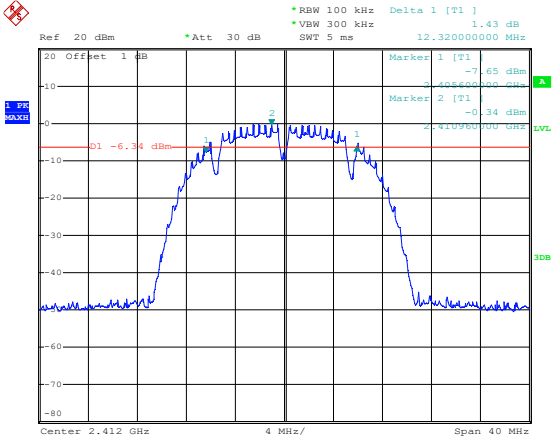
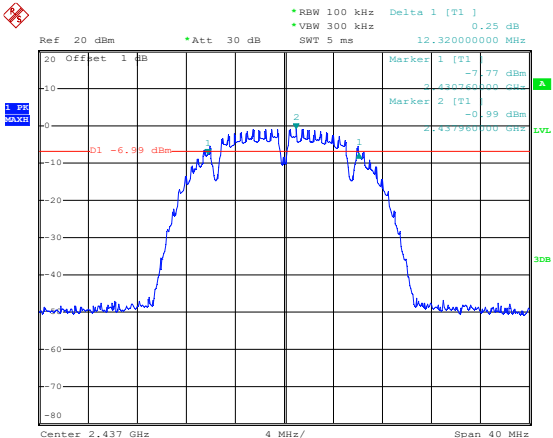
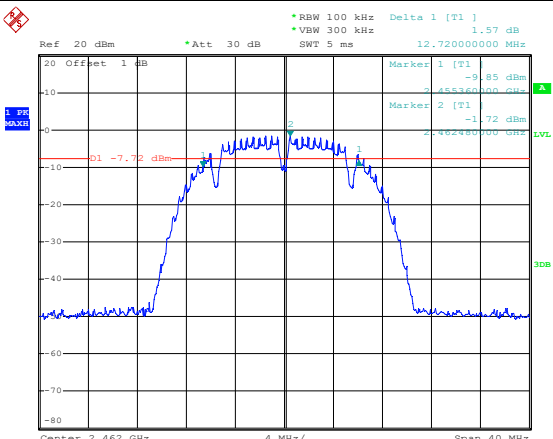
|                            |                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>802.11n-HT20-Low</p>    | <div><p>Date: 29.AUG.2025 14:25:11</p></div>     |
| <p>802.11n-HT20-Middle</p> | <div><p>Date: 29.AUG.2025 14:25:28</p></div>   |
| <p>802.11n-HT20-High</p>   | <div><p>Date: 29.AUG.2025 14:25:43</p></div> |

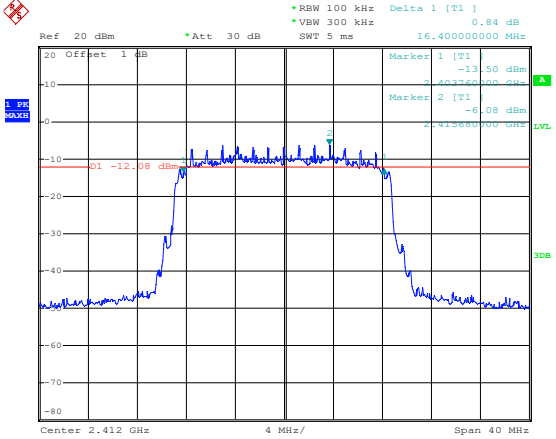
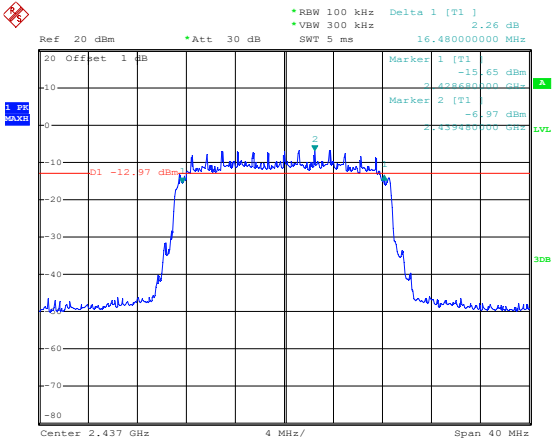
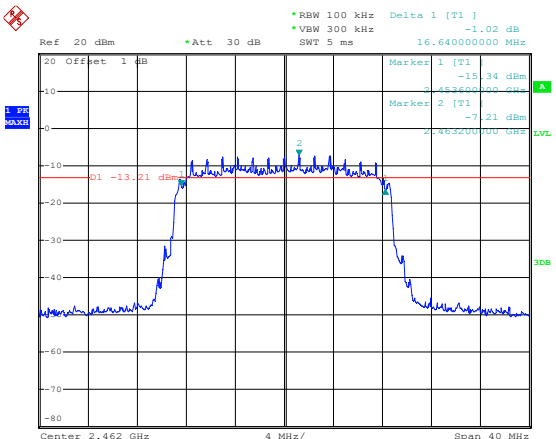
|                     |                                                                                                                                  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 802.11n-HT40-Low    | <div><p>Date: 29.AUG.2025 14:26:18</p></div>   |
| 802.11n-HT40-Middle | <div><p>Date: 29.AUG.2025 14:26:40</p></div>  |
| 802.11n-HT40-High   | <div><p>Date: 29.AUG.2025 14:26:59</p></div> |

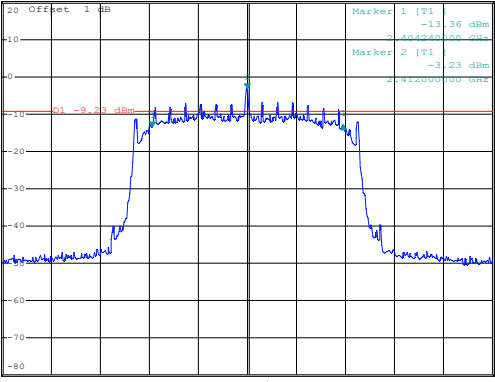
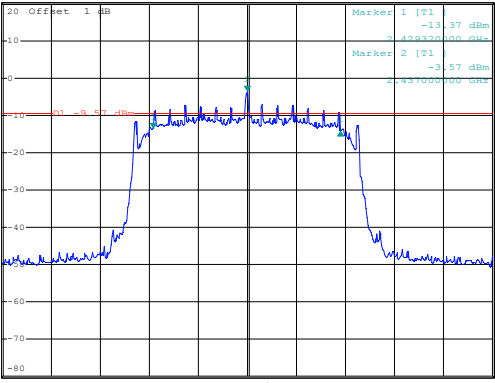
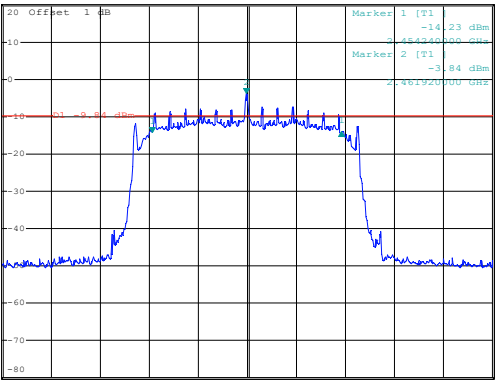
## APPENDIX B

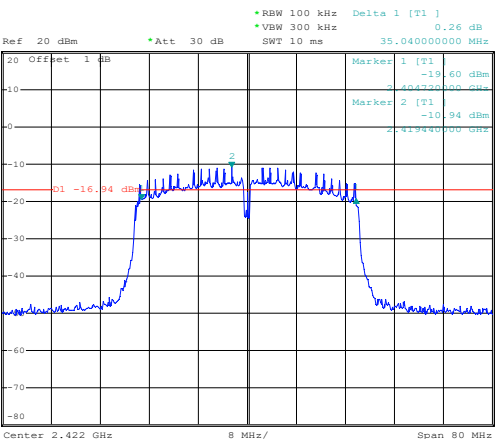
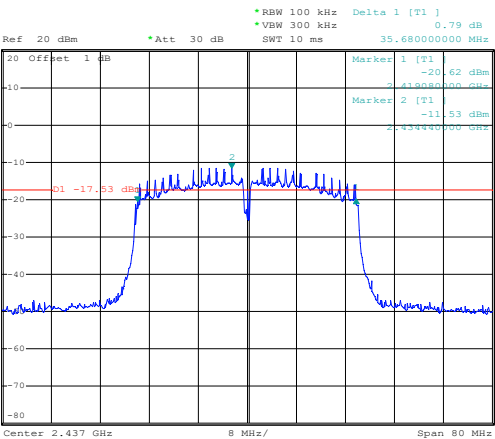
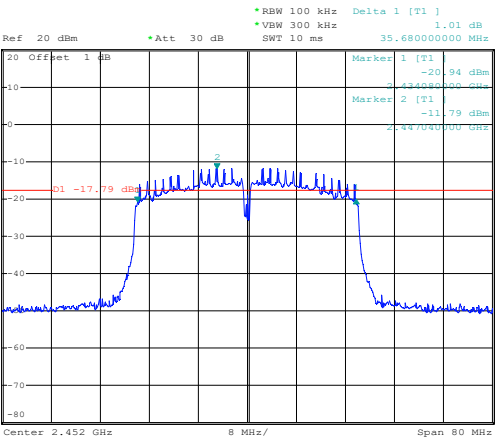
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| DTS Bandwidth     |                     |                       |              |
|-------------------|---------------------|-----------------------|--------------|
| Test Mode         | Test Channel<br>MHz | 6 dB Bandwidth<br>MHz | Limit<br>kHz |
| 802.11b_11Mbps    | 2412                | 12.32                 | ≥500         |
|                   | 2437                | 12.32                 | ≥500         |
|                   | 2462                | 12.72                 | ≥500         |
| 802.11g_54Mbps    | 2412                | 16.40                 | ≥500         |
|                   | 2437                | 16.48                 | ≥500         |
|                   | 2462                | 16.64                 | ≥500         |
| 802.11n-HT20_MCS7 | 2412                | 15.60                 | ≥500         |
|                   | 2437                | 15.28                 | ≥500         |
|                   | 2462                | 15.44                 | ≥500         |
| 802.11n-HT40_MCS7 | 2422                | 35.04                 | ≥500         |
|                   | 2437                | 35.68                 | ≥500         |
|                   | 2452                | 35.68                 | ≥500         |

|                |                                                                                                                                                                                                                                                                                                                                                                         |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 802.11b-Low    | <div><p>Ref: 20 dBm *Att: 30 dB<br/>RBW 100 kHz Delta 1 [T1] 1.43 dB<br/>VBW 300 kHz 12.32000000 MHz<br/>SWT 5 ms</p><p>Marker 1 [T1] -7.65 dBm<br/>Marker 2 [T1] -10.34 dBm</p><p>Offset 1 dB</p><p>Center 2.412 GHz 4 MHz/ Span 40 MHz</p><p>Date: 29.AUG.2025 11:13:07</p></div>   |
| 802.11b-Middle | <div><p>Ref: 20 dBm *Att: 30 dB<br/>RBW 100 kHz Delta 1 [T1] 0.25 dB<br/>VBW 300 kHz 12.32000000 MHz<br/>SWT 5 ms</p><p>Marker 1 [T1] -7.77 dBm<br/>Marker 2 [T1] -10.99 dBm</p><p>Offset 1 dB</p><p>Center 2.437 GHz 4 MHz/ Span 40 MHz</p><p>Date: 29.AUG.2025 11:14:13</p></div>  |
| 802.11b-High   | <div><p>Ref: 20 dBm *Att: 30 dB<br/>RBW 100 kHz Delta 1 [T1] 1.57 dB<br/>VBW 300 kHz 12.72000000 MHz<br/>SWT 5 ms</p><p>Marker 1 [T1] -9.85 dBm<br/>Marker 2 [T1] -11.72 dBm</p><p>Offset 1 dB</p><p>Center 2.462 GHz 4 MHz/ Span 40 MHz</p><p>Date: 29.AUG.2025 11:15:49</p></div> |

|                |                                                                                                                                                                                                                                                                                            |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 802.11g-Low    | <div><p>Ref 20 dBm *Att 30 dB SWT 5 ms 16.40000000 MHz</p><p>Marker 1 [T1] -13.50 dBm<br/>Marker 2 [T1] -6.08 dBm</p><p>Center 2.412 GHz 4 MHz/ Span 40 MHz</p><p>Date: 29.AUG.2025 11:16:49</p></div>   |
| 802.11g-Middle | <div><p>Ref 20 dBm *Att 30 dB SWT 5 ms 16.48000000 MHz</p><p>Marker 1 [T1] -15.65 dBm<br/>Marker 2 [T1] -6.97 dBm</p><p>Center 2.437 GHz 4 MHz/ Span 40 MHz</p><p>Date: 29.AUG.2025 11:17:50</p></div>  |
| 802.11g-High   | <div><p>Ref 20 dBm *Att 30 dB SWT 5 ms 16.64000000 MHz</p><p>Marker 1 [T1] -15.34 dBm<br/>Marker 2 [T1] -7.21 dBm</p><p>Center 2.462 GHz 4 MHz/ Span 40 MHz</p><p>Date: 29.AUG.2025 11:19:01</p></div> |

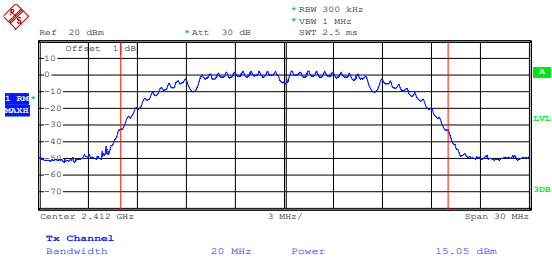
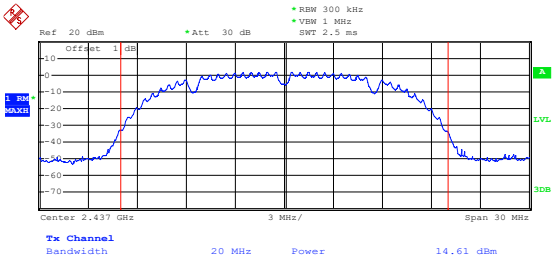
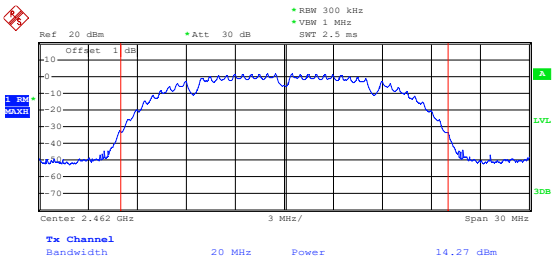
|                            |                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>802.11n-HT20-Low</p>    | <div><p>Ref 20 dBm *Att 30 dB</p><p>RBW 100 kHz Delta 1 [T1] 0.45 dB<br/>VBW 300 kHz<br/>SWT 5 ms 15.60000000 MHz</p><p>Marker 1 [T1] -13.36 dBm<br/>Marker 2 [T1] -3.23 dBm</p><p>Center 2.412 GHz 4 MHz/ Span 40 MHz</p><p>Date: 29.AUG.2025 11:20:44</p></div>     |
| <p>802.11n-HT20-Middle</p> | <div><p>Ref 20 dBm *Att 30 dB</p><p>RBW 100 kHz Delta 1 [T1] -0.97 dB<br/>VBW 300 kHz<br/>SWT 5 ms 15.28000000 MHz</p><p>Marker 1 [T1] -13.37 dBm<br/>Marker 2 [T1] -3.57 dBm</p><p>Center 2.437 GHz 4 MHz/ Span 40 MHz</p><p>Date: 29.AUG.2025 11:21:46</p></div>  |
| <p>802.11n-HT20-High</p>   | <div><p>Ref 20 dBm *Att 30 dB</p><p>RBW 100 kHz Delta 1 [T1] 0.22 dB<br/>VBW 300 kHz<br/>SWT 5 ms 15.44000000 MHz</p><p>Marker 1 [T1] -14.23 dBm<br/>Marker 2 [T1] -3.84 dBm</p><p>Center 2.462 GHz 4 MHz/ Span 40 MHz</p><p>Date: 29.AUG.2025 11:22:49</p></div> |

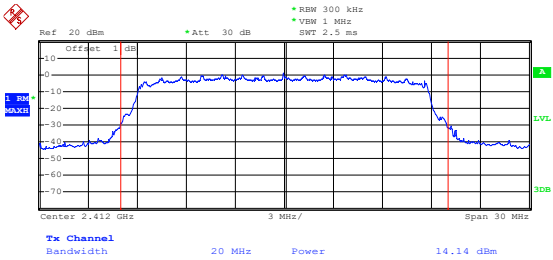
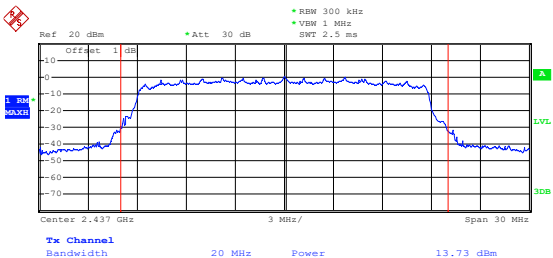
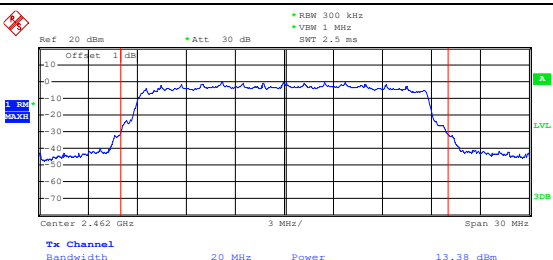
|                            |                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>802.11n-HT40-Low</p>    | <div><p>Ref 20 dBm *Att 30 dB RBW 100 kHz Delta 1 [T1] 0.26 dB<br/>VBW 300 kHz SWT 10 ms 35.04000000 MHz</p><p>Marker 1 [T1] -19.60 dBm<br/>Marker 2 [T1] -10.94 dBm</p><p>Center 2.422 GHz 8 MHz/ Span 80 MHz</p><p>Date: 29.AUG.2025 11:23:52</p></div>     |
| <p>802.11n-HT40-Middle</p> | <div><p>Ref 20 dBm *Att 30 dB RBW 100 kHz Delta 1 [T1] 0.79 dB<br/>VBW 300 kHz SWT 10 ms 35.68000000 MHz</p><p>Marker 1 [T1] -20.62 dBm<br/>Marker 2 [T1] -11.53 dBm</p><p>Center 2.437 GHz 8 MHz/ Span 80 MHz</p><p>Date: 29.AUG.2025 11:24:38</p></div>   |
| <p>802.11n-HT40-High</p>   | <div><p>Ref 20 dBm *Att 30 dB RBW 100 kHz Delta 1 [T1] 1.01 dB<br/>VBW 300 kHz SWT 10 ms 35.68000000 MHz</p><p>Marker 1 [T1] -20.94 dBm<br/>Marker 2 [T1] -11.79 dBm</p><p>Center 2.452 GHz 8 MHz/ Span 80 MHz</p><p>Date: 29.AUG.2025 11:25:28</p></div> |

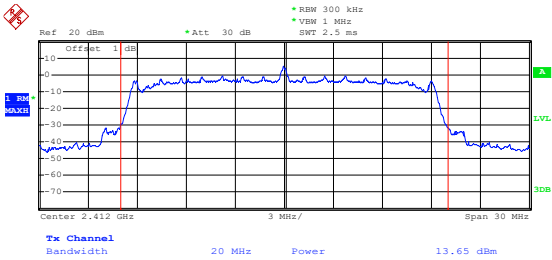
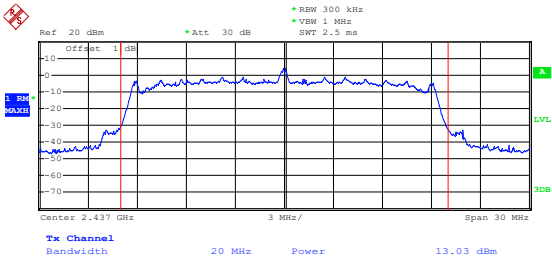
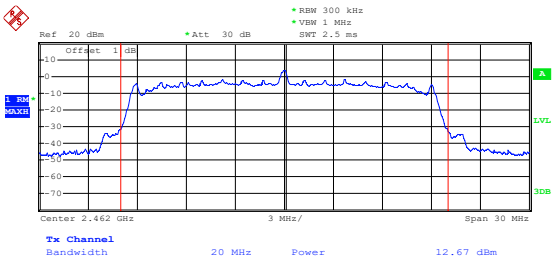
## APPENDIX C

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| Test Mode         | Frequency<br>MHz | Reading<br>dBm | Limit<br>dBm |
|-------------------|------------------|----------------|--------------|
| 802.11b _ 11Mbps  | 2412             | 15.05          | 30.00        |
|                   | 2437             | 14.61          | 30.00        |
|                   | 2462             | 14.27          | 30.00        |
| 802.11g_54Mbps    | 2412             | 14.14          | 30.00        |
|                   | 2437             | 13.73          | 30.00        |
|                   | 2462             | 13.38          | 30.00        |
| 802.11n HT20_MCS7 | 2412             | 13.65          | 30.00        |
|                   | 2437             | 13.03          | 30.00        |
|                   | 2462             | 12.67          | 30.00        |
| 802.11n HT40_MCS7 | 2422             | 10.32          | 30.00        |
|                   | 2437             | 9.90           | 30.00        |
|                   | 2452             | 9.49           | 30.00        |

|                       |                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>802.11b-Low</p>    | <div><p>Ref 20 dBm Offset 1 dB Att 30 dB RBW 300 kHz VBW 1 MHz SWT 2.5 ms</p><p>Center 2.412 GHz 3 MHz/ Span 30 MHz</p><p>Tx Channel Bandwidth 20 MHz Power 15.05 dBm</p></div> <p>Date: 29.AUG.2025 14:07:06</p>     |
| <p>802.11b-Middle</p> | <div><p>Ref 20 dBm Offset 1 dB Att 30 dB RBW 300 kHz VBW 1 MHz SWT 2.5 ms</p><p>Center 2.437 GHz 3 MHz/ Span 30 MHz</p><p>Tx Channel Bandwidth 20 MHz Power 14.61 dBm</p></div> <p>Date: 29.AUG.2025 14:07:33</p>   |
| <p>802.11b-High</p>   | <div><p>Ref 20 dBm Offset 1 dB Att 30 dB RBW 300 kHz VBW 1 MHz SWT 2.5 ms</p><p>Center 2.462 GHz 3 MHz/ Span 30 MHz</p><p>Tx Channel Bandwidth 20 MHz Power 14.27 dBm</p></div> <p>Date: 29.AUG.2025 14:07:54</p> |

|                       |                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <p>802.11g-Low</p>    | <div></div>     |
| <p>802.11g-Middle</p> | <div></div>   |
| <p>802.11g-High</p>   | <div></div> |

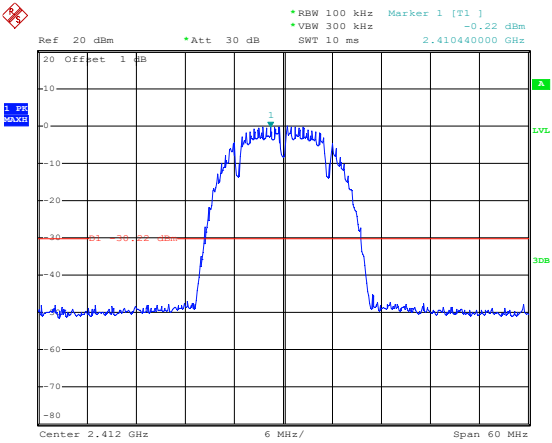
|                            |                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>802.11n-HT20-Low</p>    | <div><p>Date: 29.AUG.2025 14:12:54</p></div>     |
| <p>802.11n-HT20-Middle</p> | <div><p>Date: 29.AUG.2025 14:13:19</p></div>   |
| <p>802.11n-HT20-High</p>   | <div><p>Date: 29.AUG.2025 14:14:09</p></div> |

|                            |                                                                             |
|----------------------------|-----------------------------------------------------------------------------|
| <p>802.11n-HT40-Low</p>    | <div></div> <p>Date: 4.SEP.2025 14:35:06</p>   |
| <p>802.11n-HT40-Middle</p> | <div></div> <p>Date: 4.SEP.2025 14:35:55</p>  |
| <p>802.11n-HT40-High</p>   | <div></div> <p>Date: 4.SEP.2025 14:36:50</p> |

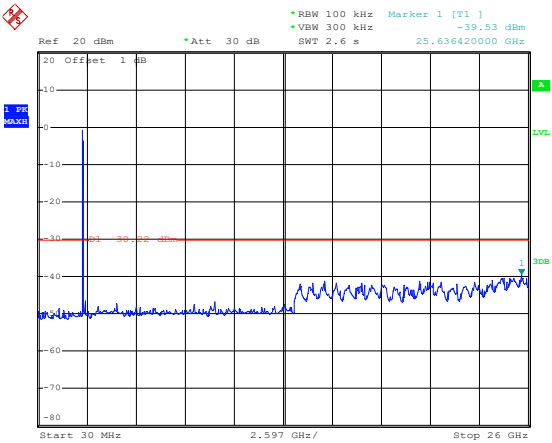
APPENDIX D

Conducted Out of Band Emissions

802.11b-Low

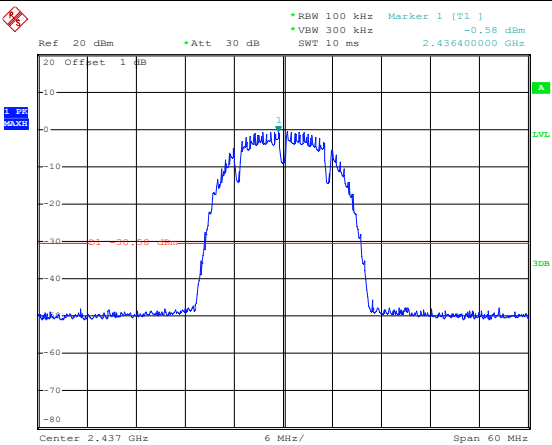


Date: 29.AUG.2025 11:39:05

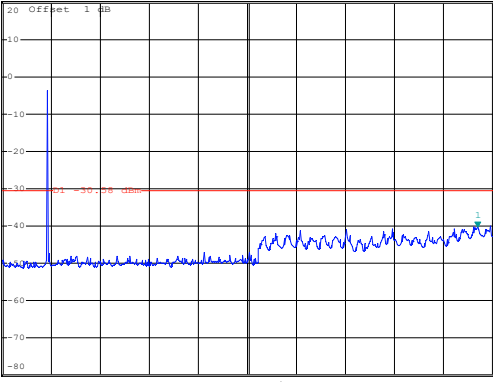
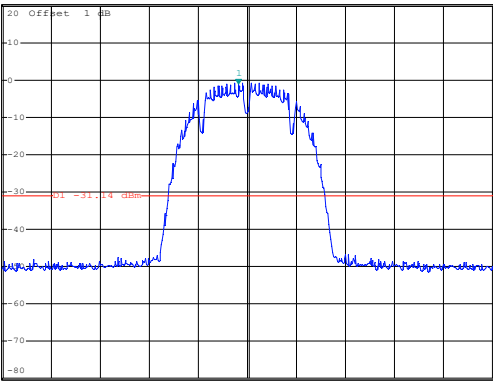
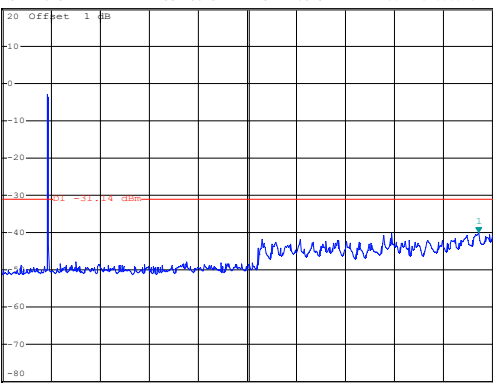


Date: 29.AUG.2025 11:39:31

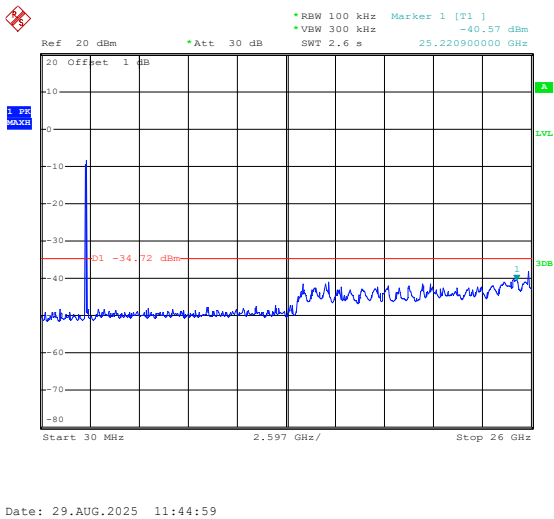
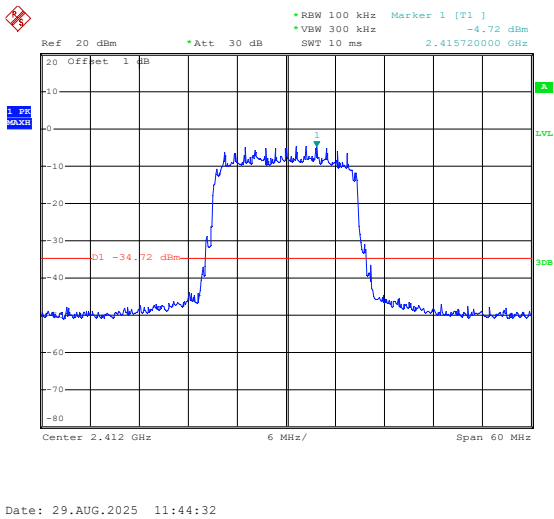
802.11b-Middle



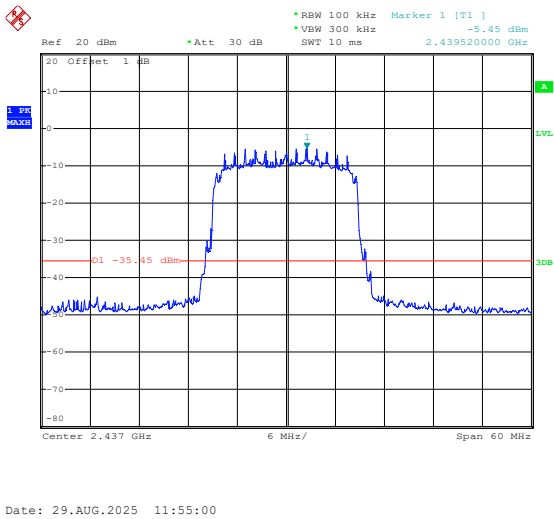
Date: 29.AUG.2025 11:40:10

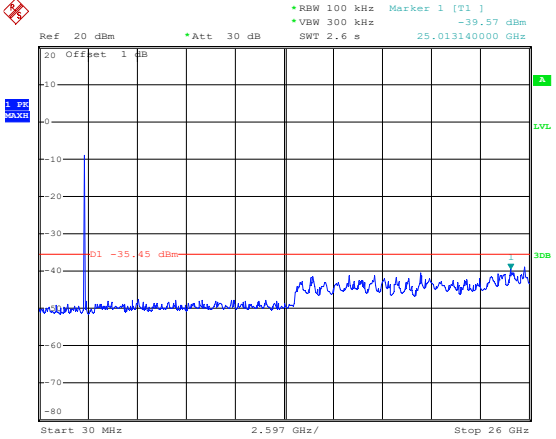
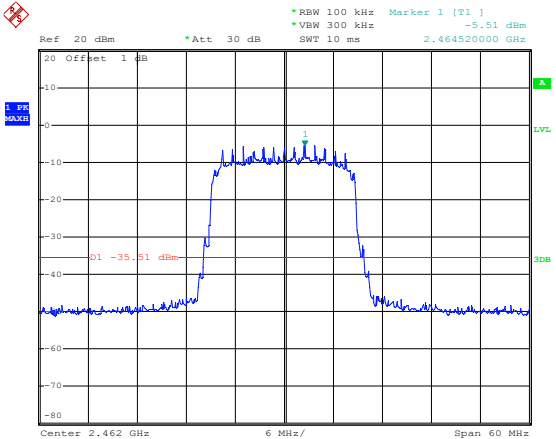
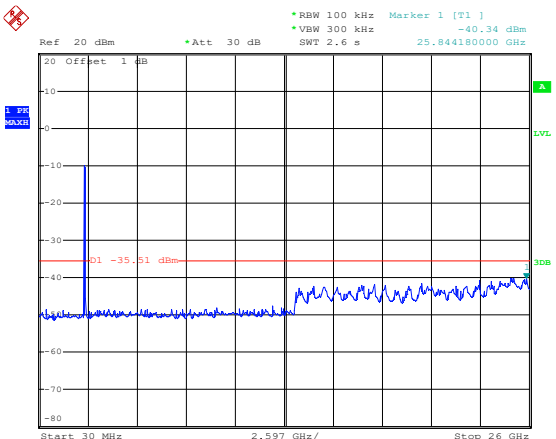
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | <div><div><div><div></div><div></div></div><div><div>RBW 100 kHz</div><div>VBW 300 kHz</div><div>Marker 1 [T1]</div><div>-40.14 dBm</div></div></div><div><div>Ref 20 dBm</div><div>*Att 30 dB</div><div>SWT 2.6 s</div><div>25.220900000 GHz</div></div><div><div>Start 30 MHz</div><div>2.597 GHz/</div><div>Stop 26 GHz</div></div><div><div>Date: 29.AUG.2025</div><div>11:40:29</div></div></div>     |
| 802.11b-High | <div><div><div><div></div><div></div></div><div><div>RBW 100 kHz</div><div>VBW 300 kHz</div><div>Marker 1 [T1]</div><div>-1.14 dBm</div></div></div><div><div>Ref 20 dBm</div><div>*Att 30 dB</div><div>SWT 10 ms</div><div>2.460920000 GHz</div></div><div><div>Center 2.462 GHz</div><div>6 MHz/</div><div>Span 60 MHz</div></div><div><div>Date: 29.AUG.2025</div><div>11:41:33</div></div></div>     |
|              | <div><div><div><div></div><div></div></div><div><div>RBW 100 kHz</div><div>VBW 300 kHz</div><div>Marker 1 [T1]</div><div>-39.94 dBm</div></div></div><div><div>Ref 20 dBm</div><div>*Att 30 dB</div><div>SWT 2.6 s</div><div>25.272840000 GHz</div></div><div><div>Start 30 MHz</div><div>2.597 GHz/</div><div>Stop 26 GHz</div></div><div><div>Date: 29.AUG.2025</div><div>11:41:48</div></div></div> |

802.11g-Low

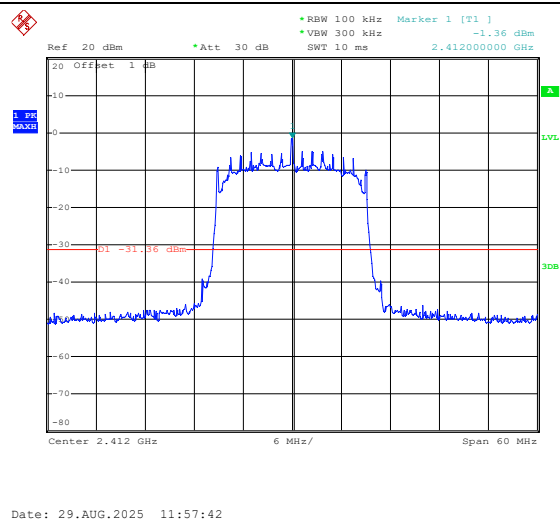


802.11g-Middle

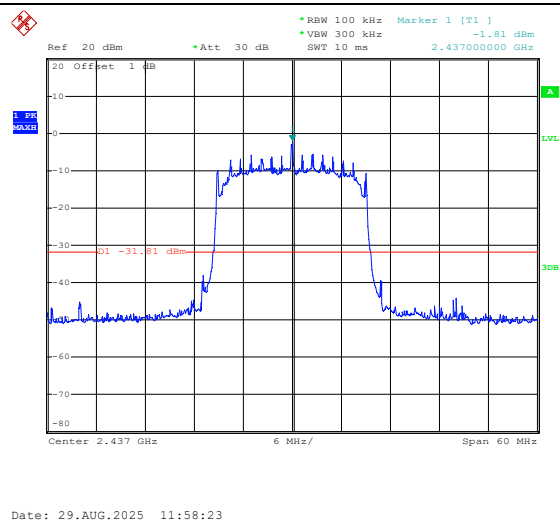


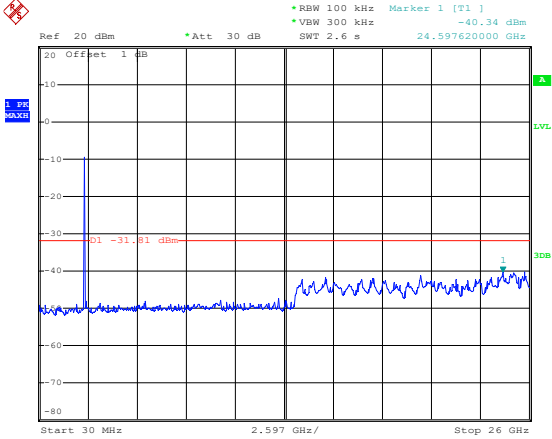
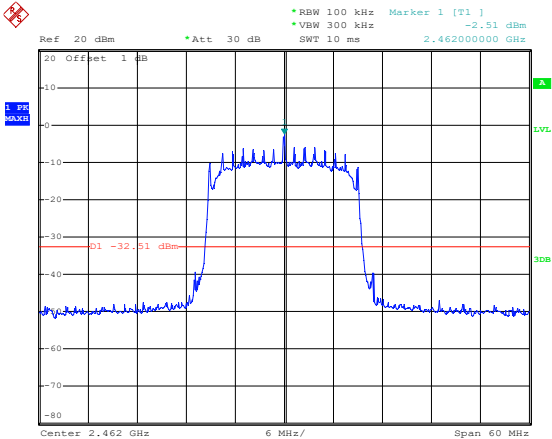
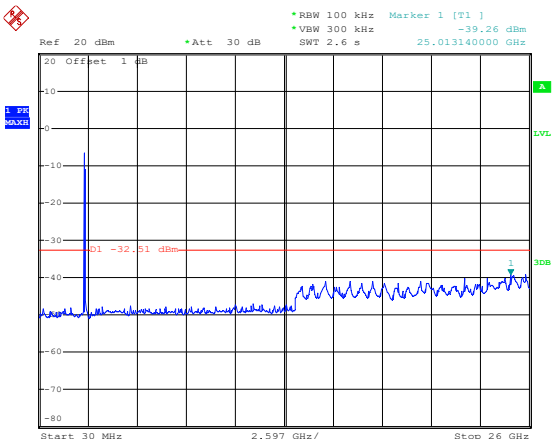
|              |                                                                                                                                  |
|--------------|----------------------------------------------------------------------------------------------------------------------------------|
|              | <div><p>Date: 29.AUG.2025 11:55:58</p></div>   |
| 802.11g-High | <div><p>Date: 29.AUG.2025 11:56:36</p></div>  |
|              | <div><p>Date: 29.AUG.2025 11:56:52</p></div> |

802.11n-HT20-Low

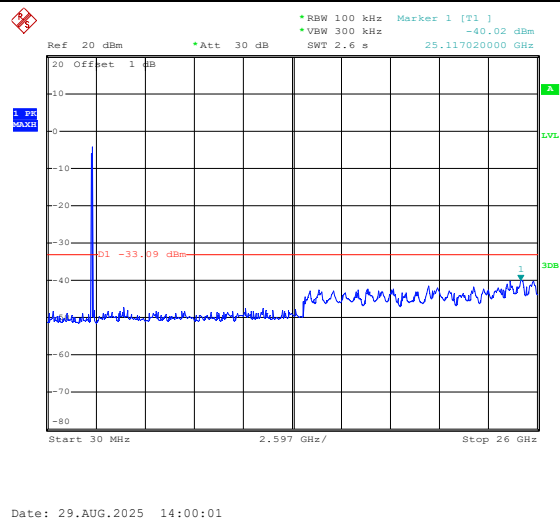
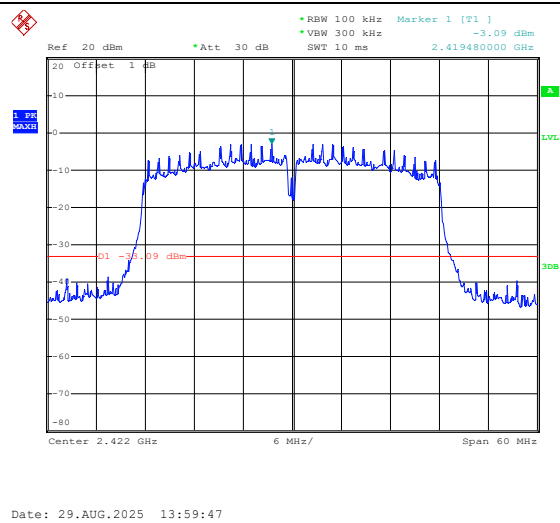


802.11n-HT20-Middle

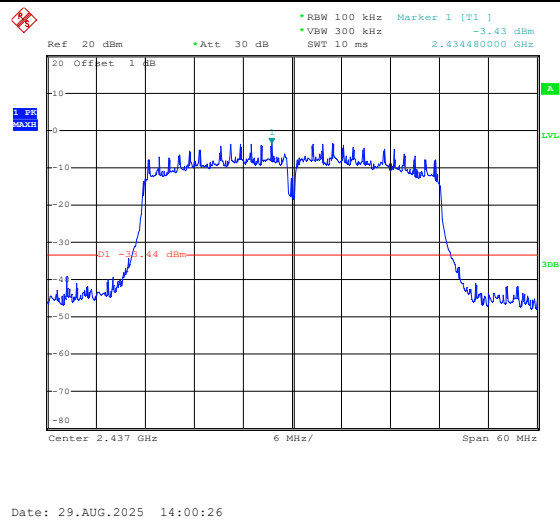


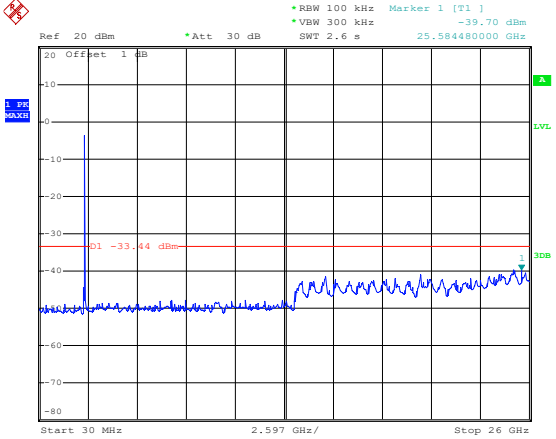
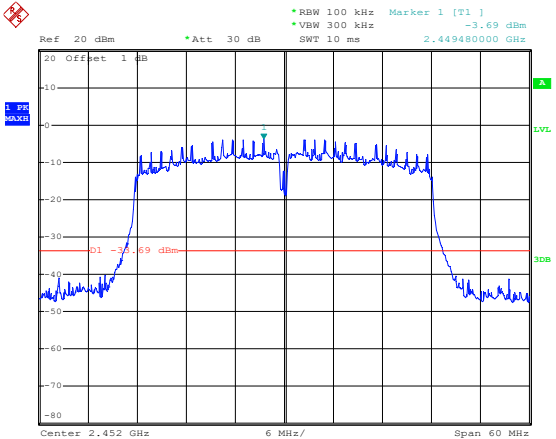
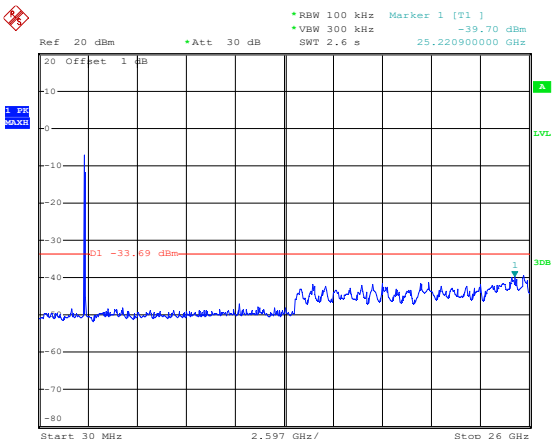
|                   |                                                                                                                                  |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------|
|                   | <div><p>Date: 29.AUG.2025 11:58:37</p></div>   |
| 802.11n-HT20-High | <div><p>Date: 29.AUG.2025 11:59:05</p></div>  |
|                   | <div><p>Date: 29.AUG.2025 11:59:42</p></div> |

802.11n-HT40-Low



802.11n-HT40-Middle



|                   |                                                                                                                                  |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------|
|                   | <div><p>Date: 29.AUG.2025 14:00:40</p></div>   |
| 802.11n-HT40-High | <div><p>Date: 29.AUG.2025 14:01:05</p></div>  |
|                   | <div><p>Date: 29.AUG.2025 14:01:19</p></div> |

## APPENDIX PHOTOGRAPHS

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Please refer to “ANNEX”

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