Testing Laboratory 3787

# RADIO TEST REPORT

| | | |
|---|---|---|
| FCC ID | : | UIDG54 |
| Equipment | : | Cable Modem |
| Brand Name | : | ARRIS |
| Model Name | : | G54 |
| Applicant | : | ARRIS<br>3871 Lakefield Drive Suite 300 SUWANEE Georgia United States 30024 |
| Manufacturer | : | ARRIS<br>3871 Lakefield Drive Suite 300 SUWANEE Georgia United States 30024 |
| Standard | : | 47 CFR FCC Part 15.247 |

The product was received on Feb. 27, 2023, and testing was started from Feb. 27, 2023 and completed on Mar. 24, 2023. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

***Sporton International Inc. Hsinchu Laboratory***

*No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)*

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# History of this test report

| Report No. | Version | Description | Issued Date |
|---|---|---|---|
| FR321751AA | 01 | Initial issue of report | May 15, 2023 |
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# Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|---|---|---|---|---|
| 1.1.2 | 15.203 | Antenna Requirement | PASS | - |
| 3.1 | 15.207 | AC Power-line Conducted Emissions | PASS | - |
| 3.2 | 15.247(a) | DTS Bandwidth | PASS | - |
| 3.3 | 15.247(b) | Maximum Conducted Output Power | PASS | - |
| 3.4 | 15.247(e) | Power Spectral Density | PASS | - |
| 3.5 | 15.247(d) | Emissions in Non-restricted Frequency Bands | PASS | - |
| 3.6 | 15.247(d) | Emissions in Restricted Frequency Bands | PASS | - |

| Conformity Assessment Condition: |
|---|
| 1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.<br>2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty". |
| **Disclaimer:** |
| The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity. |

**Reviewed by: Sam Chen**
**Report Producer: Sandy Chuang**

# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

| Frequency Range (MHz) | IEEE Std. 802.11 | Ch. Frequency (MHz) | Channel Number |
|---|---|---|---|
| 2400-2483.5 | b, g, n (HT20), VHT20, ax (HEW20) | 2412-2462 | 1-11 [11] |
| 2400-2483.5 | n (HT40), VHT40, ax (HEW40) | 2422-2452 | 3-9 [7] |

| Band | Mode | BWch (MHz) | Nant |
|---|---|---|---|
| 2.4-2.4835GHz | 802.11b | 20 | 2TX |
| 2.4-2.4835GHz | 802.11g | 20 | 2TX |
| 2.4-2.4835GHz | 802.11n HT20 | 20 | 2TX |
| 2.4-2.4835GHz | 802.11n HT20-BF | 20 | 2TX |
| 2.4-2.4835GHz | VHT20 | 20 | 2TX |
| 2.4-2.4835GHz | VHT20-BF | 20 | 2TX |
| 2.4-2.4835GHz | 802.11ax HEW20 | 20 | 2TX |
| 2.4-2.4835GHz | 802.11ax HEW20-BF | 20 | 2TX |
| 2.4-2.4835GHz | 802.11n HT40 | 40 | 2TX |
| 2.4-2.4835GHz | 802.11n HT40-BF | 40 | 2TX |
| 2.4-2.4835GHz | VHT40 | 40 | 2TX |
| 2.4-2.4835GHz | VHT40-BF | 40 | 2TX |
| 2.4-2.4835GHz | 802.11ax HEW40 | 40 | 2TX |
| 2.4-2.4835GHz | 802.11ax HEW40-BF | 40 | 2TX |

Note:
- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- HEW20, HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- BWch is the nominal channel bandwidth.

### 1.1.2 Antenna Information

| Ant. | Port | | | | Brand | Model Name | Ant. Type | Connector | Support Band |
|---|---|---|---|---|---|---|---|---|---|
| | 2.4GHz | 5GHz | | 6GHz | | | | | |
| | | UNII1 UNII2A | UNII2C UNII3 | | | | | | |
| 1 | - | 2 | - | - | Wanshih | WPB866 | DIPOLE | I-PEX | 5GHz UNII 1, 2A |
| 2 | 1 | - | 1 | - | Wanshih | WPB867 | DIPOLE | I-PEX | 2.4GHz/5GHz UNII 2C, 3 |
| 3 | - | 1 | - | - | Wanshih | WPB868 | DIPOLE | I-PEX | 5GHz UNII 1, 2A |
| 4 | 2 | - | 2 | - | Wanshih | WPB869 | DIPOLE | I-PEX | 2.4GHz/5GHz UNII 2C, 3 |
| 5 | - | - | - | 2 | Wanshih | WPB870 | DIPOLE | I-PEX | 6GHz |
| 6 | - | - | - | 1 | Wanshih | WPB871 | DIPOLE | I-PEX | 6GHz |
| 7 | - | - | - | 4 | Wanshih | WPB872 | DIPOLE | I-PEX | 6GHz |
| 8 | - | - | - | 3 | Wanshih | WPB873 | DIPOLE | I-PEX | 6GHz |

| Ant. | Antenna Gain (dBi) | | | Ant. | Antenna Gain (dBi) |
|---|---|---|---|---|---|
| | 2.4GHz | 5GHz UNII1 / UNII2A | 5GHz UNII2C / UNII3 | | 6GHz |
| 1 | - | 4.92 | - | 5 | 4.94 |
| 2 | 4.14 | - | 4.75 | 6 | 5.68 |
| 3 | - | 4.78 | - | 7 | 4.77 |
| 4 | 2.64 | - | 4.60 | 8 | 5.83 |

Note 1: The above information was declared by manufacturer.
Note 2: The DFS band and 6GHz doesn't enable at this time.

**<For WLAN 2.4GHz>**

**For IEEE 802.11b/g/n/VHT mode (2TX/2RX)**

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

**<For WLAN 5GHz>**

**For IEEE 802.11a/n/ac/ax/be mode (2TX/2RX)**

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

**<For WLAN 6GHz>**

**For IEEE 802.11ax/be mode (4TX/4RX)**

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

Note3: Directional gain information

| Type | Maximum Output Power | Power Spectral Density |
|---|---|---|
| Non-BF | Directional gain = Max.gain + array gain.<br>For power measurements on IEEE 802.11 devices<br>Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4 | $Directional Gain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ |
| BF | $Directional Gain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ | $Directional Gain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ |

Ex.

Directional Gain (NSS1) formula :

$$Directional Gain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$$

NSS1(g1,1) = $10^{G1/20}$ ; NSS1(g1,2)= $10^{G2/20}$ ; NSS1(g1,2)= $10^{G3/20}$; NSS1(g1,2)= $10^{G4/20}$

gj,k =(Nss1(g1,1) + Nss1(g1,2) + Nss1(g1,3) + Nss1(g1,4) $)^2$

DG = 10 log[(Nss1(g1,1) + Nss1(g1,2) + Nss1(g1,3) + Nss1(g1,4)$)^2$ / $N_{ANT}$] => 10 log[($10^{G1/20}$ + $10^{G2/20}$ + $10^{G3/20}$ + $10^{G4/20}$ $)^2$ / $N_{ANT}$]

Where ;

2.4G G1= 4.14 dBi ; G2= 2.64 dBi ;DG= 6.43dBi

5G UNII-1 G1= 4.92 dBi ; G2= 4.78 dBi ;DG= 7.86dBi

5G UNII-2A G1= 4.92 dBi ; G2= 4.78 dBi ;DG= 7.86dBi

5G UNII-2C G1= 4.75 dBi ; G2= 4.60 dBi ;DG= 7.69dBi

5G UNII-3 G1= 4.75 dBi ; G2= 4.60 dBi ;DG= 7.69dBi

6G UNII-4 G1= 4.94 dBi ; G2= 5.68 dBi ; G3= 4.77 dBi ; G4= 5.83 dBi ;DG= 11.34dBi

6G UNII-5 G1= 4.94 dBi ; G2= 5.68 dBi ; G3= 4.77 dBi ; G4= 5.83 dBi ;DG= 11.34dBi

6G UNII-6 G1= 4.94 dBi ; G2= 5.68 dBi ; G3= 4.77 dBi ; G4= 5.83 dBi ;DG= 11.34dBi

6G UNII-7 G1= 4.94 dBi ; G2= 5.68 dBi ; G3= 4.77 dBi ; G4= 5.83 dBi ;DG= 11.34dBi

### 1.1.3 Mode Test Duty Cycle

| Mode | DC | DCF(dB) | T(s) | VBW(Hz) ≥ 1/T |
|---|---|---|---|---|
| 802.11b | 0.608 | 2.16 | 693.75u | 3k |
| 802.11g | 0.939 | 0.27 | 1.984m | 1k |
| 802.11ax HEW20 | 0.79 | 1.02 | 5.449m | 300 |
| 802.11ax HEW40 | 0.793 | 1.01 | 5.452m | 300 |

Note:
- DC is Duty Cycle.
- DCF is Duty Cycle Factor.

### 1.1.4 EUT Operational Condition

| | | | | |
|---|---|---|---|---|
| **EUT Power Type** | From Power Adapter | | | |
| **Beamforming Function** | ☒ | With beamforming | ☐ | Without beamforming |
| | The product has beamforming function for n/VHT/ax in 2.4GHz, n/ac/ax/be in 5GHz UNII 1,3 | | | |
| **Function** | ☒ | Point-to-multipoint | ☐ | Point-to-point |
| **Support RU** | ☒ | Full RU | ☐ | Partial RU |
| **Test Software Version** | QSPR(Version 5.0-00202) | | | |

Note: The above information was declared by manufacturer.

## 1.2 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR FCC Part 15.247
- ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF.

- FCC KDB 558074 D01 v05r02
- FCC KDB 662911 D01 v02r01
- FCC KDB 414788 D01 v01r01

## 1.3 Testing Location Information

| Testing Location Information | |
|---|---|
| Test Lab. : Sporton International Inc. Hsinchu Laboratory | |
| Hsinchu<br>(TAF: 3787) | ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)<br>TEL: 886-3-656-9065 FAX: 886-3-656-9085<br>Test site Designation No. TW3787 with FCC.<br>Conformity Assessment Body Identifier (CABID) TW3787 with ISED. |

| Test Condition | Test Site No. | Test Engineer | Test Environment (°C / %) | Test Date |
|---|---|---|---|---|
| RF Conducted | TH01-CB | Mason Chen | 22~26 / 51~55 | Mar. 02, 2023~ Mar. 03, 2023 |
| Radiated <Below 1GHz> | 03CH01-CB | Ederson Huang | 20.2-21.3 / 66-67 | Feb. 27, 2023~ Mar. 24, 2023 |
| Radiated <Co-location> | 03CH06-CB | Ederson Huang | 20-21 / 65-68 | Feb. 27, 2023~ Mar. 24, 2023 |
| Radiated <Above 1GHz> | 03CH01-CB | Ederson Huang | 20.6~22.6 / 63~66 | Feb. 27, 2023~ Mar. 24, 2023 |
| AC Conduction | CO01-CB | Elvin Yeh | 22~23 / 50~51 | Mar. 22, 2023 |

## 1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

| Test Items | Uncertainty | Remark |
|---|---|---|
| Conducted Emission (150kHz ~ 30MHz) | 3.4 dB | Confidence levels of 95% |
| Radiated Emission (9kHz ~ 30MHz) | 3.4 dB | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 5.6 dB | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz) | 5.2 dB | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz) | 4.7 dB | Confidence levels of 95% |
| Conducted Emission | 3.2 dB | Confidence levels of 95% |
| Output Power Measurement | 0.8 dB | Confidence levels of 95% |
| Power Density Measurement | 3.2 dB | Confidence levels of 95% |
| Bandwidth Measurement | 2.0 % | Confidence levels of 95% |

# 2 Test Configuration of EUT

## 2.1 Test Channel Mode

| Mode | Power Setting |
|---|---|
| 802.11b_Nss1,(1Mbps)_2TX | - |
| 2412MHz | 27 |
| 2437MHz | 27 |
| 2462MHz | 27 |
| 802.11g_Nss1,(6Mbps)_2TX | - |
| 2412MHz | 24 |
| 2417MHz | 27.5 |
| 2437MHz | 27.5 |
| 2457MHz | 27.5 |
| 2462MHz | 24.5 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | - |
| 2412MHz | 23.5 |
| 2417MHz | 27.5 |
| 2437MHz | 27.5 |
| 2457MHz | 27.5 |
| 2462MHz | 23.5 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | - |
| 2422MHz | 23 |
| 2437MHz | 25 |
| 2452MHz | 23 |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | - |
| 2412MHz | 23.5 |
| 2417MHz | 27.5 |
| 2437MHz | 27 |
| 2457MHz | 27.5 |
| 2462MHz | 23.5 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | - |
| 2422MHz | 23 |
| 2437MHz | 25 |
| 2452MHz | 23 |

Note:
- Evaluated HEW20/HEW40 mode only. Due to similar modulation, The power setting of HT20/HT40/VHT20/VHT40 mode are the same or lower than HEW20/HEW40.
- The EUT supports non-beamforming and beamforming modes, after evaluating, the non-beamforming mode has been evaluated to be the worst case, so it was selected to test. The beamforming mode evaluates the output power only.

## 2.2 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | AC power-line conducted emissions |
| **Condition** | AC power-line conducted measurement for line and neutral<br>Test Voltage: 120Vac / 60Hz |
| **Operating Mode** | CTX |
| 1 | EUT_WLAN 2.4GHz + Adapter 1 |
| 2 | EUT_WLAN 2.4GHz + Adapter 2 |
| Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode. | |
| 3 | EUT_WLAN 5GHz + Adapter 1 |
| For operating mode 3 is the worst case and it was record in this test report. | |

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | DTS Bandwidth<br>Maximum Conducted Output Power<br>Power Spectral Density<br>Emissions in Non-restricted Frequency Bands |
| **Test Condition** | Conducted measurement at transmit chains |

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | Emissions in Restricted Frequency Bands |
| **Test Condition** | Radiated measurement<br>If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type. |
| **Operating Mode < 1GHz** | CTX |
| The EUT was performed at X axis, Y axis and Z axis position for Radiated measurement<Above 1GHz>, and the worst case was found at X axis position for 2.4GHz, Y axis position for 5GHz. Thus the measurement will follow the same test configuration. | |
| 1 | EUT in X axis_WLAN 2.4GHz + Adapter 1 |
| 2 | EUT in X axis_WLAN 2.4GHz + Adapter 2 |
| Mode 2 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode. | |
| 3 | EUT in Y axis: WLAN 5GHz + Adapter 2 |
| For operating mode 3 is the worst case and it was record in this test report. | |
| **Operating Mode > 1GHz** | CTX |
| The EUT was performed at X axis, Y axis and Z axis position, and the worst case as below:<br>Thus the measurement will follow the same test configuration | |
| 1 | EUT in X axis |

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | Simultaneous Transmission Analysis - Radiated Emission Co-location |
| **Test Condition** | Radiated measurement |
| **Operating Mode** | Normal Link |
| The EUT was performed at X axis, Y axis and Z axis position for Radiated measurement<Above 1GHz>, the worst case was found at Y axis position. Thus the measurement will follow the same test configuration. | |
| 1 | EUT in Y axis_WLAN 2.4GHz + WLAN 5GHz High Band |
| Refer to Appendix G for Radiated Emission Co-location. | |

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation |
| **Operating Mode** | |
| 1 | WLAN 2.4GHz + WLAN 5GHz |
| Refer to Sporton Test Report No.: FA321751 for Co-location RF Exposure Evaluation. | |

## 2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

## 2.4 Accessories

| Accessories | | | |
|---|---|---|---|
| **Equipment Name** | **Brand Name** | **Model Name** | **Rating** |
| Adapter 1 | MOSO | MS-V4000R120-050A0-US | INPUT: 100-240V ~ 50/60Hz, 1.3A max.<br>OUTPUT: 12.0V, 4.0A |
| Adapter 2 | Frecom | F48L1-120400SPAU | INPUT: 100-240V ~ 50/60Hz, 1.4A<br>OUTPUT: 12.0V, 4.0A, 48.0W |

## 2.5 Support Equipment

**For AC Conduction:**

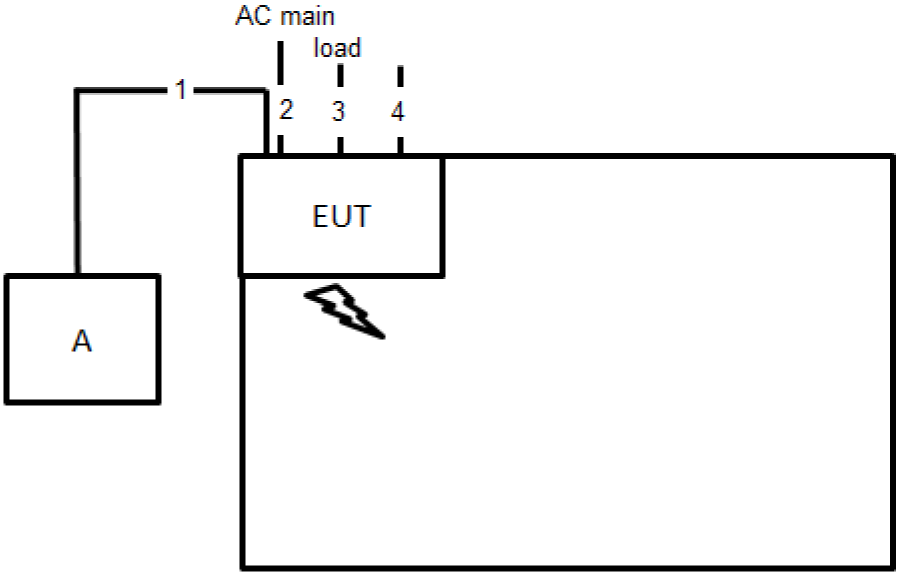
| Support Equipment | | | | |
|---|---|---|---|---|
| **No.** | **Equipment** | **Brand Name** | **Model Name** | **FCC ID** |
| A | LAN NB | Lenovo | L440 | N/A |

**For Radiated and RF Conducted:**

| Support Equipment | | | | |
|---|---|---|---|---|
| **No.** | **Equipment** | **Brand Name** | **Model Name** | **FCC ID** |
| A | NB | DELL | E4300 | N/A |

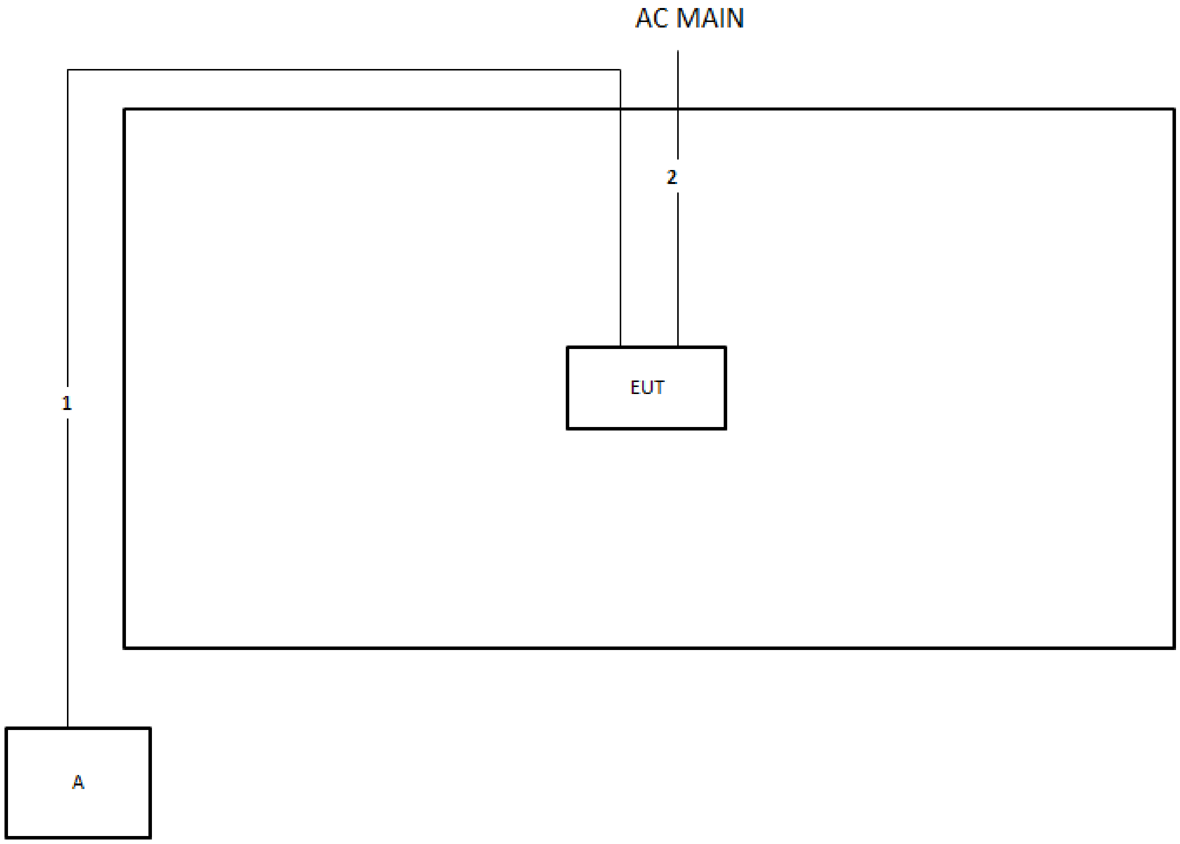
## 2.6 Test Setup Diagram

**Test Setup Diagram – AC Line Conducted Emission Test**




| Item | Connection | Shielded | Length |
|---|---|---|---|
| 1 | RJ-45 cable | No | 10m |
| 2 | Power cable | No | 1.88m |
| 3 | RJ-45 cable *4 | No | 1.5m |
| 4 | Coaxial cable | Yes | 1.5m |

**Test Setup Diagram - Radiated Test**




| Item | Connection | Shielded | Length |
|---|---|---|---|
| 1 | RJ-45 cable | No | 10m |
| 2 | Power cable | No | 1.88m |

# 3 Transmitter Test Result

## 3.1 AC Power-line Conducted Emissions

### 3.1.1 AC Power-line Conducted Emissions Limit

| AC Power-line Conducted Emissions Limit | | |
|---|---|---|
| **Frequency Emission (MHz)** | **Quasi-Peak** | **Average** |
| 0.15-0.5 | 66 - 56 * | 56 - 46 * |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |
| Note 1: * Decreases with the logarithm of the frequency. | | |

### 3.1.2 Measuring Instruments

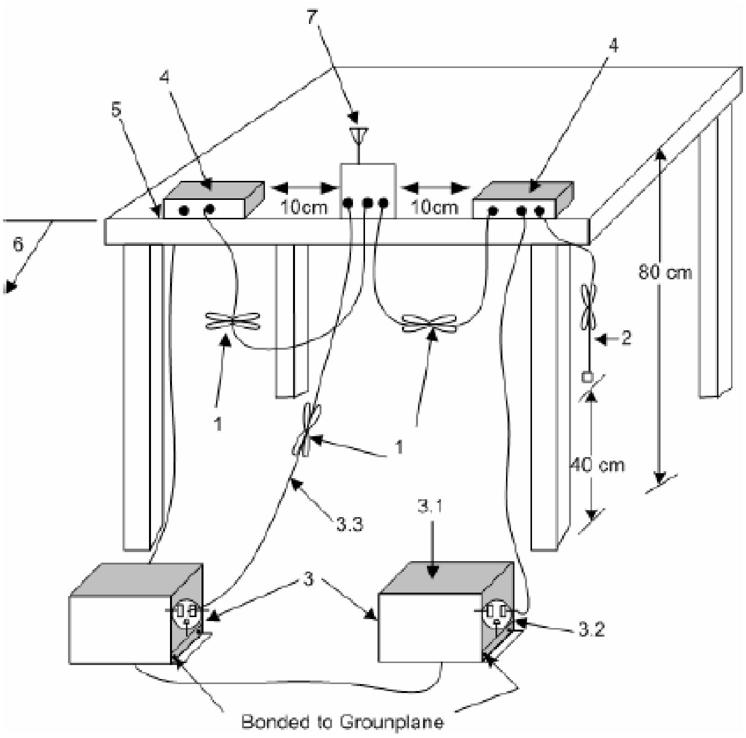
Refer a test equipment and calibration data table in this test report.

### 3.1.3 Test Procedures

| Test Method |
|---|
| ☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions. |

### 3.1.4 Test Setup

**AC Power-line Conducted Emissions**




1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

### 3.1.5 Measurement Results Calculation

The measured Level is calculated using:

a. Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
b. Margin = -Limit + Level

### 3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

## 3.2 DTS Bandwidth

### 3.2.1 6dB Bandwidth Limit

| 6dB Bandwidth Limit |
|---|
| **Systems using digital modulation techniques:** |
| ▪ 6 dB bandwidth ≥ 500 kHz. |

### 3.2.2 Measuring Instruments

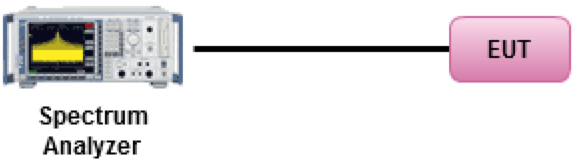
Refer a test equipment and calibration data table in this test report.

### 3.2.3 Test Procedures

| Test Method | | |
|---|---|---|
| ▪ For the emission bandwidth shall be measured using one of the options below: | | |
| | ☒ | Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement. |
| | ☐ | Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement. |
| | ☐ | Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing. |

### 3.2.4 Test Setup

**Emission Bandwidth**




### 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

# 3.3 Maximum Conducted Output Power

## 3.3.1 Maximum Conducted Output Power Limit

| Maximum Conducted Output Power Limit | | |
|---|---|---|
| | ▪ If $G_{TX}$ ≤ 6 dBi, then $P_{Out}$ ≤ 30 dBm (1 W) | |
| | ▪ Point-to-multipoint systems (P2M): If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 6) dBm | |
| | ▪ Point-to-point systems (P2P): If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 6)/3 dBm | |
| | ▪ Smart antenna system (SAS): | |
| | | - Single beam: If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 6)/3 dBm |
| | | - Overlap beam: If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 6)/3 dBm |
| | | - Aggregate power on all beams: If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 6)/3 + 8dB dBm |
| **$P_{Out}$** = maximum peak conducted output power or maximum conducted output power in dBm,<br>**$G_{TX}$** = the maximum transmitting antenna directional gain in dBi. | | |

## 3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.3.3 Test Procedures

| Test Method | | |
|---|---|---|
| ▪ | Maximum Peak Conducted Output Power | |
| | ☐ | Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method). |
| | ☐ | Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter). |
| ▪ | Maximum Conducted Output Power | |
| | [duty cycle ≥ 98% or external video / power trigger] | |
| | ☐ | Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1. |
| | ☐ | Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative) |
| | duty cycle < 98% and average over on/off periods with duty factor | |
| | ☐ | Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2. |
| | ☐ | Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative) |
| | ☐ | Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3 |
| | ☐ | Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative) |
| | Measurement using a power meter (PM) | |
| | ☐ | Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter). |
| | ☒ | Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter). |
| ▪ | For conducted measurement. | |
| | ▪ | If the EUT supports multiple transmit chains using options given below:<br>Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. |
| | ▪ | If multiple transmit chains, EIRP calculation could be following as methods:<br>$P_{total} = P_1 + P_2 + \ldots + P_n$<br>(calculated in linear unit [mW] and transfer to log unit [dBm])<br>$EIRP_{total} = P_{total} + DG$ |

### 3.3.4 Test Setup

| Maximum Conducted Output Power (Power Meter) |
| --- |
|  |

### 3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

# 3.4 Power Spectral Density

## 3.4.1 Power Spectral Density Limit

| Power Spectral Density Limit |
|---|
| ▪ Power Spectral Density (PSD) ≤ 8 dBm/3kHz |

## 3.4.2 Measuring Instruments

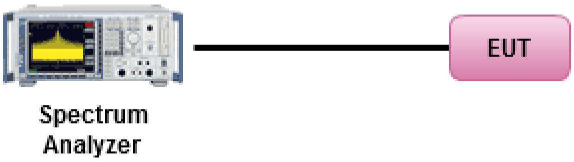
Refer a test equipment and calibration data table in this test report.

## 3.4.3 Test Procedures

| Test Method | | |
|---|---|---|
| ▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option). | | |
| | ☒ Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD. | |
| ▪ For conducted measurement. | | |
| | ▪ If The EUT supports multiple transmit chains using options given below: | |
| | | ☒ Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace. |
| | | ☐ Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits, |
| | | ☐ Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit. |

### 3.4.4 Test Setup

**Power Spectral Density**




### 3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

# 3.5 Emissions in Non-restricted Frequency Bands

## 3.5.1 Emissions in Non-restricted Frequency Bands Limit

| Un-restricted Band Emissions Limit | |
|---|---|
| **RF output power procedure** | **Limit (dBc)** |
| Peak output power procedure | 20 |
| Average output power procedure | 30 |

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

## 3.5.2 Measuring Instruments

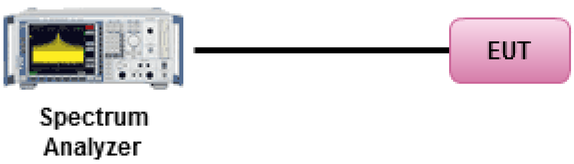
Refer a test equipment and calibration data table in this test report.

## 3.5.3 Test Procedures

| Test Method |
|---|
| ▪ Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands. |

## 3.5.4 Test Setup

**Emissions in Non-restricted Frequency Bands**




## 3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

## 3.6 Emissions in Restricted Frequency Bands

### 3.6.1 Emissions in Restricted Frequency Bands Limit

| Restricted Band Emissions Limit | | | |
|---|---|---|---|
| **Frequency Range (MHz)** | **Field Strength (uV/m)** | **Field Strength (dBuV/m)** | **Measure Distance (m)** |
| 0.009~0.490 | 2400/F(kHz) | 48.5 - 13.8 | 300 |
| 0.490~1.705 | 24000/F(kHz) | 33.8 - 23 | 30 |
| 1.705~30.0 | 30 | 29 | 30 |
| 30~88 | 100 | 40 | 3 |
| 88~216 | 150 | 43.5 | 3 |
| 216~960 | 200 | 46 | 3 |
| Above 960 | 500 | 54 | 3 |

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).
Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.
Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

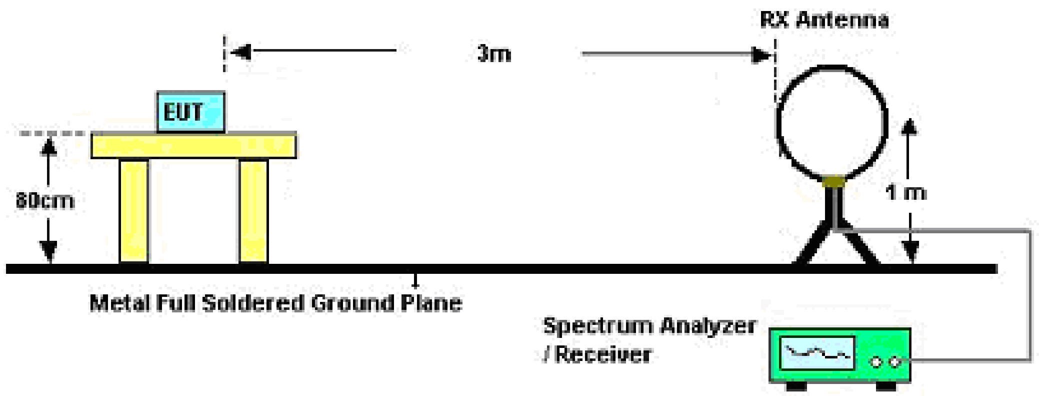
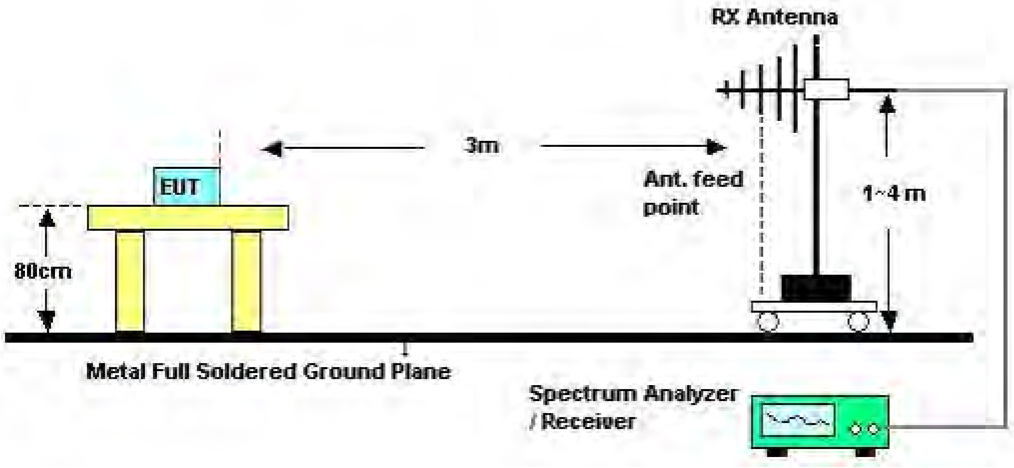
### 3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

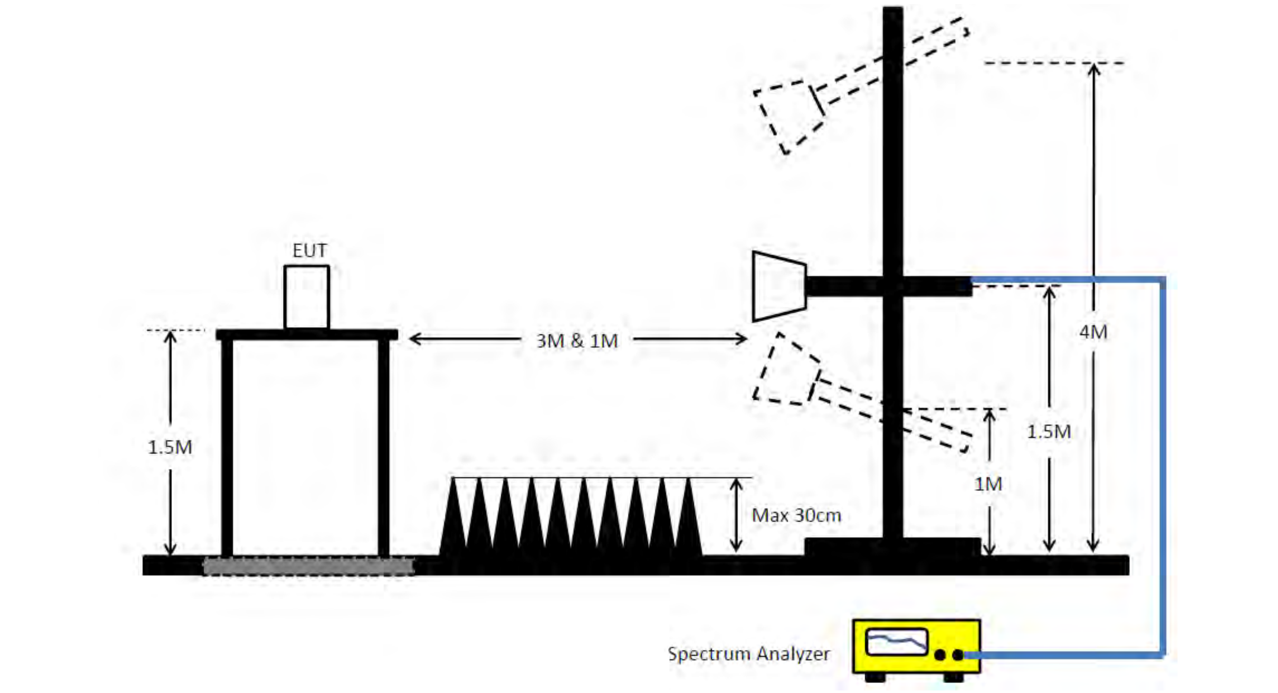
### 3.6.3 Test Procedures

| Test Method | | |
|---|---|---|
| ▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. | | |
| ▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band. | | |
| ▪ For the transmitter unwanted emissions shall be measured using following options below: | | |
| | ▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands. | |
| | | ☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle ≥98%). |
| | | ☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor). |
| | | ☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW≥1/T). |
| | | ☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time. |
| | | ☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions. |
| | | ☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit. |
| ▪ For the transmitter band-edge emissions shall be measured using following options below: | | |
| | ▪ Refer as FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below. | |
| | ▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements. | |
| | ▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz). | |
| | ▪ For conducted unwanted emissions into restricted bands (absolute emission limits).<br>Devices with multiple transmit chains using options given below:<br>(1) Measure and sum the spectra across the outputs or<br>(2) Measure and add 10 log(N) dB | |
| | ▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred. | |

### 3.6.4 Test Setup

| Radiated - Emissions in Restricted Frequency Bands |
|---|
| 9kHz ~30MHz |
|   |
| 30MHz~1GHz |
|   |

**Above 1GHz**




### 3.6.5 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

### 3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.
The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

### 3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

# 4 Test Equipment and Calibration Data

| Instrument | Brand | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date | Remark |
|---|---|---|---|---|---|---|---|
| EMI Receiver | Agilent | N9038A | My52260123 | 9kHz ~ 8.4GHz | Feb. 20, 2023 | Feb. 19, 2024 | Conduction (CO01-CB) |
| LISN | Schwarzbeck | NSLK 8127 | 8127478 | 9kHz ~ 30MHz | Dec. 20, 2022 | Dec. 19, 2023 | Conduction (CO01-CB) |
| LISN | Schwarzbeck | NSLK 8127 | 8127647 | 9kHz ~ 30MHz | Apr. 12, 2022 | Apr. 11, 2023 | Conduction (CO01-CB) |
| Pulse Limiter | Rohde&Schwarz | ESH3-Z2 | 100430 | 9kHz ~ 30MHz | Feb. 09, 2023 | Feb. 08, 2024 | Conduction (CO01-CB) |
| COND Cable | Woken | Cable | Low cable-CO01 | 9kHz ~ 30MHz | Oct. 18, 2022 | Oct. 17, 2023 | Conduction (CO01-CB) |
| Software | SPORTON | SENSE | V5.10 | - | N.C.R. | N.C.R. | Conduction (CO01-CB) |
| Loop Antenna | Teseq | HLA 6120 | 24155 | 9kHz - 30 MHz | May 14, 2022 | May 13, 2023 | Radiation (03CH01-CB) |
| 3m Semi Anechoic Chamber NSA | TDK | SAC-3M | 03CH01-CB | 30 MHz ~ 1 GHz | Jan. 16, 2023 | Jan. 15, 2024 | Radiation (03CH01-CB) |
| 3m Semi Anechoic Chamber VSWR | TDK | SAC-3M | 03CH01-CB | 1GHz ~18GHz 3m | May 06, 2022 | May 05, 2023 | Radiation (03CH01-CB) |
| BILOG ANTENNA with 6dB Attenuator | TESEQ & EMCI | CBL6112D N-6-06 | 37880 & AT-N0609 | 20MHz ~ 2GHz | Feb. 19, 2023 | Feb. 18, 2024 | Radiation (03CH01-CB) |
| Horn Antenna | ETS-LINDGREN | 3115 | 00075790 | 750MHz ~ 18GHz | Nov. 04, 2022 | Nov. 03, 2023 | Radiation (03CH01-CB) |
| Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170252 | 15GHz ~ 40GHz | Aug. 22, 2022 | Aug. 21, 2023 | Radiation (03CH01-CB) |
| Amplifier | EMCI | EMC330N | 980332 | 20MHz ~ 3GHz | Jul. 01, 2022 | Jun. 30, 2023 | Radiation (03CH01-CB) |
| Pre-Amplifier | Agilent | 8449B | 3008A02121 | 1GHz ~ 26.5GHz | May 19, 2022 | May 18, 2023 | Radiation (03CH01-CB) |
| Pre-Amplifier | SGH | SGH184 | 20221107-3 | 18GHz ~ 40GHz | Nov. 16, 2022 | Nov. 15, 2023 | Radiation (03CH01-CB) |
| Spectrum Analyzer | R&S | FSP40 | 100056 | 9kHz ~ 40GHz | May 06, 2022 | May 05, 2023 | Radiation (03CH01-CB) |
| EMI Test Receiver | R&S | ESCS | 826547/017 | 9kHz ~ 2.75GHz | Jun. 17, 2022 | Jun. 16, 2023 | Radiation (03CH01-CB) |
| RF Cable-low | Woken | RG402 | Low Cable-16+17 | 30 MHz ~ 1 GHz | Oct. 03, 2022 | Oct. 02, 2023 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-16 | 1 GHz ~ 18 GHz | Oct. 03, 2022 | Oct. 02, 2023 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-16+17 | 1 GHz ~ 18 GHz | Oct. 03, 2022 | Oct. 02, 2023 | Radiation (03CH01-CB) |
| High Cable | Woken | WCA0929M | 40G#5+6 | 1GHz ~ 40 GHz | Dec. 07, 2022 | Dec. 06, 2023 | Radiation (03CH01-CB) |

| Instrument | Brand | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date | Remark |
|---|---|---|---|---|---|---|---|
| High Cable | Woken | WCA0929M | 40G#5 | 1GHz ~ 40 GHz | Dec. 07, 2022 | Dec. 06, 2023 | Radiation (03CH01-CB) |
| High Cable | Woken | WCA0929M | 40G#6 | 1GHz ~ 40 GHz | Dec. 07, 2022 | Dec. 06, 2023 | Radiation (03CH01-CB) |
| Test Software | SPORTON | SENSE | V5.10 | - | N.C.R. | N.C.R. | Radiation (03CH01-CB) |
| 3m Semi Anechoic Chamber VSWR | TDK | SAC-3M | 03CH06-CB | 1GHz ~18GHz 3m | Sep. 30, 2022 | Sep. 29, 2023 | Radiation (03CH06-CB) |
| Horn Antenna | SCHWARZBECK | BBHA9120D | BBHA 9120D-1292 | 1GHz~18GHz | Aug. 09, 2022 | Aug. 08, 2023 | Radiation (03CH06-CB) |
| Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170252 | 15GHz ~ 40GHz | Aug. 22, 2022 | Aug. 21, 2023 | Radiation (03CH06-CB) |
| Pre-Amplifier | Agilent | 83017A | MY53270064 | 0.5GHz ~ 26.5GHz | Aug 02, 2022 | Aug 01, 2023 | Radiation (03CH06-CB) |
| Pre-Amplifier | SGH | SGH184 | 20221107-3 | 18GHz ~ 40GHz | Nov. 16, 2022 | Nov. 15, 2023 | Radiation (03CH06-CB) |
| Signal Analyzer | R&S | FSV40 | 101904 | 9kHz ~ 40GHz | Apr. 26, 2022 | Apr. 25, 2023 | Radiation (03CH06-CB) |
| RF Cable-high | Woken | RG402 | High Cable-68 | 1GHz~18GHz | Oct. 03, 2022 | Oct. 02, 2023 | Radiation (03CH06-CB) |
| RF Cable-high | Woken | RG402 | High Cable-05+68 | 1GHz~18GHz | Dec. 21, 2022 | Dec. 20, 2023 | Radiation (03CH06-CB) |
| High Cable | Woken | WCA0929M | 40G#5+6 | 1GHz ~ 40 GHz | Dec. 07, 2022 | Dec. 06, 2023 | Radiation (03CH06-CB) |
| High Cable | Woken | WCA0929M | 40G#5 | 1GHz ~ 40 GHz | Dec. 07, 2022 | Dec. 06, 2023 | Radiation (03CH06-CB) |
| High Cable | Woken | WCA0929M | 40G#6 | 1GHz ~ 40 GHz | Dec. 07, 2022 | Dec. 06, 2023 | Radiation (03CH06-CB) |
| Test Software | SPORTON | SENSE | V5.10 | - | N.C.R. | N.C.R. | Radiation (03CH06-CB) |
| Spectrum analyzer | R&S | FSV40 | 100979 | 9kHz~40GHz | May 27, 2022 | May 26, 2023 | Conducted (TH01-CB) |
| Switch | SPTCB | SP-SWI | SWI-01 | 1 GHz –26.5 GHz | Oct. 04, 2022 | Oct. 03, 2023 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-06 | 1 GHz – 18 GHz | Oct. 03, 2022 | Oct. 02, 2023 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-07 | 1 GHz – 18 GHz | Oct. 03, 2022 | Oct. 02, 2023 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-08 | 1 GHz – 18 GHz | Oct. 03, 2022 | Oct. 02, 2023 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-09 | 1 GHz – 18 GHz | Oct. 03, 2022 | Oct. 02, 2023 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-10 | 1 GHz – 18 GHz | Oct. 03, 2022 | Oct. 02, 2023 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-30 | 1 GHz – 18 GHz | Oct. 03, 2022 | Oct. 02, 2023 | Conducted (TH01-CB) |

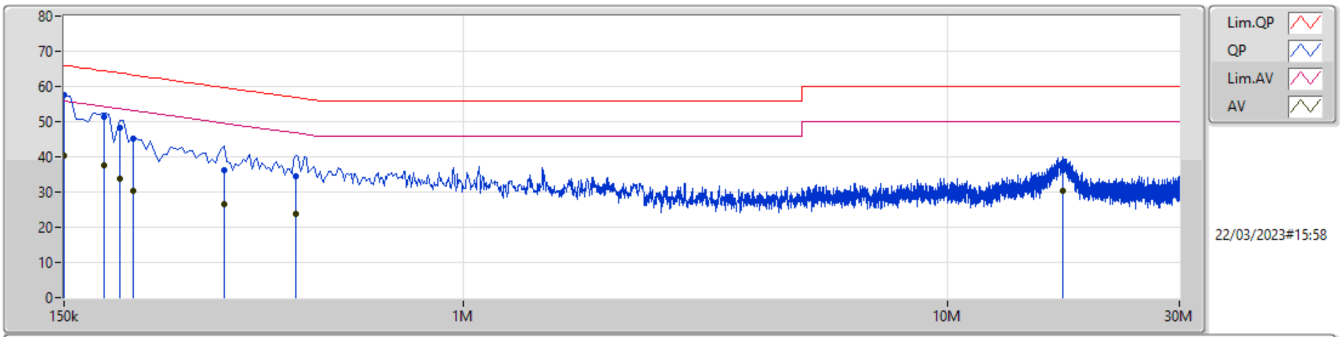
| Instrument | Brand | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date | Remark |
|---|---|---|---|---|---|---|---|
| Power Sensor | Agilent | E9327A | US40442088 | 50MHz~18GHz | Feb. 22, 2023 | Feb. 21, 2024 | Conducted (TH01-CB) |
| Power Meter | Agilent | E4416A | GB41291199 | 50MHz~18GHz | Feb. 22, 2023 | Feb. 21, 2024 | Conducted (TH01-CB) |
| Test Software | SPORTON | SENSE | V5.10 | - | N.C.R. | N.C.R. | Conducted (TH01-CB) |

Note: Calibration Interval of instruments listed above is one year.

Summary

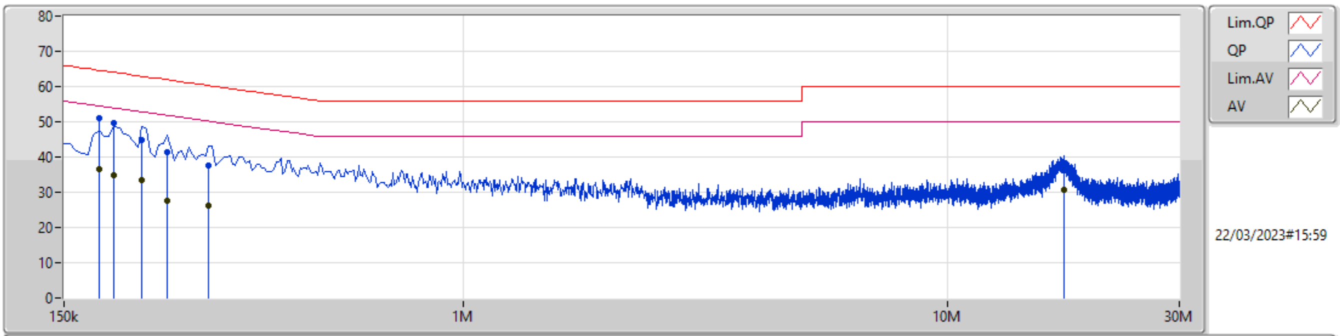
| Mode | Result | Type | Freq (Hz) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Condition |
|---|---|---|---|---|---|---|---|
| Mode 3 | Pass | QP | 150k | 57.50 | 66.00 | -8.50 | Line |

**Mode 3**




| Type | Freq | Level | Limit | Margin | Factor | Condition | Comment | Raw | LISN | CL | AT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV) | (dBuV) | (dB) | (dB) | | | (dBuV) | (dB) | (dB) | (dB) |
| QP | 150k | 57.50 | 66.00 | -8.50 | 9.97 | Line | "Worst" | 47.53 | 0.06 | 0.04 | 9.87 |
| AV | 150k | 40.40 | 56.00 | -15.60 | 9.97 | Line | - | 30.43 | 0.06 | 0.04 | 9.87 |
| QP | 181.5k | 51.37 | 64.41 | -13.04 | 9.96 | Line | - | 41.41 | 0.06 | 0.04 | 9.86 |
| AV | 181.5k | 37.46 | 54.41 | -16.95 | 9.96 | Line | - | 27.50 | 0.06 | 0.04 | 9.86 |
| QP | 195k | 48.33 | 63.82 | -15.49 | 9.96 | Line | - | 38.37 | 0.06 | 0.04 | 9.86 |
| AV | 195k | 33.90 | 53.82 | -19.92 | 9.96 | Line | - | 23.94 | 0.06 | 0.04 | 9.86 |
| QP | 208.5k | 45.19 | 63.27 | -18.08 | 9.96 | Line | - | 35.23 | 0.06 | 0.04 | 9.86 |
| AV | 208.5k | 30.48 | 53.27 | -22.79 | 9.96 | Line | - | 20.52 | 0.06 | 0.04 | 9.86 |
| QP | 321k | 36.07 | 59.67 | -23.60 | 10.00 | Line | - | 26.07 | 0.06 | 0.05 | 9.89 |
| AV | 321k | 26.72 | 49.67 | -22.95 | 10.00 | Line | - | 16.72 | 0.06 | 0.05 | 9.89 |
| QP | 451.5k | 34.41 | 56.84 | -22.43 | 10.02 | Line | - | 24.39 | 0.06 | 0.06 | 9.90 |
| AV | 451.5k | 23.74 | 46.84 | -23.10 | 10.02 | Line | - | 13.72 | 0.06 | 0.06 | 9.90 |
| QP | 17.268M | 36.29 | 60.00 | -23.71 | 10.46 | Line | - | 25.83 | 0.28 | 0.19 | 9.99 |
| AV | 17.268M | 30.22 | 50.00 | -19.78 | 10.46 | Line | - | 19.76 | 0.28 | 0.19 | 9.99 |

## Mode 3




| Type | Freq | Level | Limit | Margin | Factor | Condition | Comment | Raw | LISN | CL | AT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV) | (dBuV) | (dB) | (dB) | | | (dBuV) | (dB) | (dB) | (dB) |
| QP | 177k | 51.00 | 64.62 | -13.62 | 9.98 | Neutral | "Worst" | 41.02 | 0.07 | 0.04 | 9.87 |
| AV | 177k | 36.52 | 54.62 | -18.10 | 9.98 | Neutral | - | 26.54 | 0.07 | 0.04 | 9.87 |
| QP | 190.5k | 49.61 | 64.01 | -14.40 | 9.97 | Neutral | - | 39.64 | 0.07 | 0.04 | 9.86 |
| AV | 190.5k | 34.78 | 54.01 | -19.23 | 9.97 | Neutral | - | 24.81 | 0.07 | 0.04 | 9.86 |
| QP | 217.5k | 44.87 | 62.92 | -18.05 | 9.97 | Neutral | - | 34.90 | 0.07 | 0.04 | 9.86 |
| AV | 217.5k | 33.59 | 52.92 | -19.33 | 9.97 | Neutral | - | 23.62 | 0.07 | 0.04 | 9.86 |
| QP | 244.5k | 41.48 | 61.95 | -20.47 | 9.99 | Neutral | - | 31.49 | 0.07 | 0.05 | 9.87 |
| AV | 244.5k | 27.57 | 51.95 | -24.38 | 9.99 | Neutral | - | 17.58 | 0.07 | 0.05 | 9.87 |
| QP | 298.5k | 37.55 | 60.28 | -22.73 | 10.00 | Neutral | - | 27.55 | 0.07 | 0.05 | 9.88 |
| AV | 298.5k | 26.37 | 50.28 | -23.91 | 10.00 | Neutral | - | 16.37 | 0.07 | 0.05 | 9.88 |
| QP | 17.3M | 36.60 | 60.00 | -23.40 | 10.47 | Neutral | - | 26.13 | 0.29 | 0.19 | 9.99 |
| AV | 17.3M | 30.62 | 50.00 | -19.38 | 10.47 | Neutral | - | 20.15 | 0.29 | 0.19 | 9.99 |

Summary

| Mode | Max-N dB (Hz) | Max-OBW (Hz) | ITU-Code | Min-N dB (Hz) | Min-OBW (Hz) |
|---|---|---|---|---|---|
| 2.4-2.4835GHz | - | - | - | - | - |
| 802.11b_Nss1,(1Mbps)_2TX | 9.075M | 15.377M | 15M4G1D | 7.525M | 13.029M |
| 802.11g_Nss1,(6Mbps)_2TX | 16.275M | 26.124M | 26M1D1D | 15.7M | 16.397M |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 18.8M | 26.398M | 26M4D1D | 18.2M | 18.856M |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 37.9M | 38.201M | 38M2D1D | 36.55M | 37.662M |

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

| Mode | Result | Limit (Hz) | Port 1-N dB (Hz) | Port 1-OBW (Hz) | Port 2-N dB (Hz) | Port 2-OBW (Hz) |
|---|---|---|---|---|---|---|
| 802.11b_Nss1,(1Mbps)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 500k | 8.05M | 13.043M | 7.525M | 13.029M |
| 2437MHz | Pass | 500k | 9.075M | 15.377M | 9.025M | 14.884M |
| 2462MHz | Pass | 500k | 8.075M | 13.725M | 8.55M | 14.058M |
| 802.11g_Nss1,(6Mbps)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 500k | 15.9M | 16.397M | 16.275M | 16.439M |
| 2437MHz | Pass | 500k | 16.275M | 26.124M | 15.8M | 24.765M |
| 2462MHz | Pass | 500k | 15.9M | 16.439M | 15.7M | 16.439M |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 500k | 18.8M | 18.905M | 18.675M | 18.856M |
| 2437MHz | Pass | 500k | 18.8M | 26.398M | 18.2M | 24.463M |
| 2462MHz | Pass | 500k | 18.575M | 18.856M | 18.5M | 18.88M |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2422MHz | Pass | 500k | 37.9M | 37.76M | 37.8M | 37.809M |
| 2437MHz | Pass | 500k | 37.75M | 37.907M | 37.5M | 38.201M |
| 2452MHz | Pass | 500k | 37.55M | 37.76M | 36.55M | 37.662M |

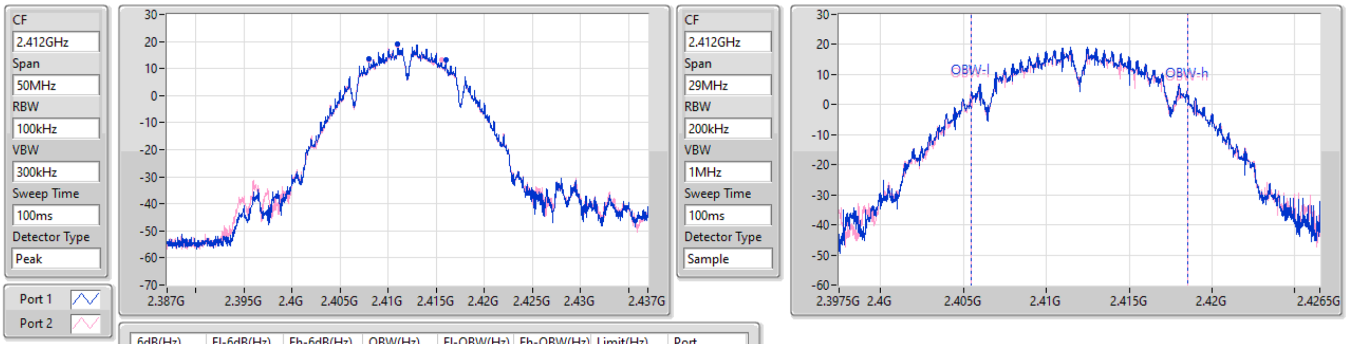
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

## 2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

## 2412MHz

**EBW**

02/03/2023



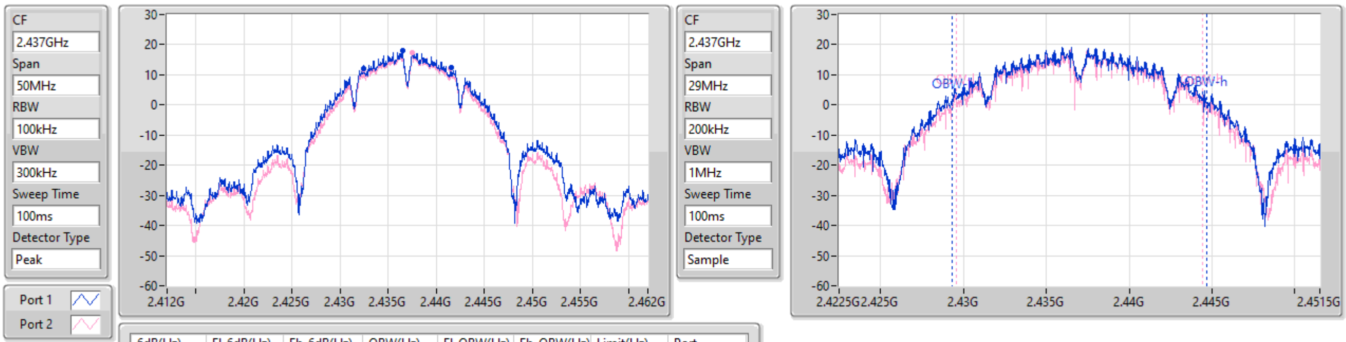

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 8.05M | 2.407975G | 2.416025G | 13.043M | 2.405478G | 2.418522G | 500k | 1 |
| 7.525M | 2.408G | 2.415525G | 13.029M | 2.405493G | 2.418522G | 500k | 2 |

## 2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

## 2437MHz

**EBW**

02/03/2023




| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 9.075M | 2.43245G | 2.441525G | 15.377M | 2.429319G | 2.444696G | 500k | 1 |
| 9.025M | 2.432475G | 2.4415G | 14.884M | 2.429551G | 2.444435G | 500k | 2 |

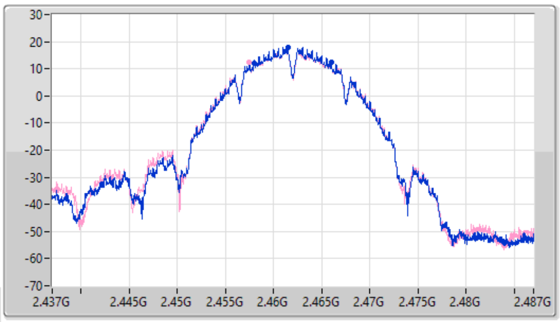
## 2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX **EBW**

## 2462MHz

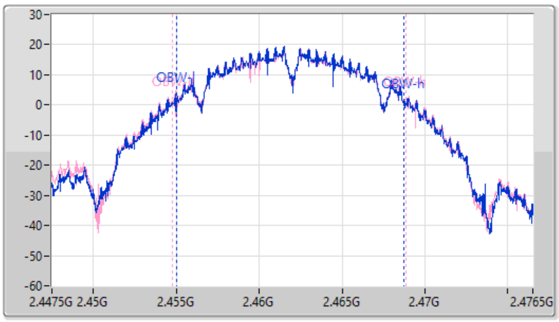
02/03/2023

CF: 2.462GHz
Span: 50MHz
RBW: 100kHz
VBW: 300kHz
Sweep Time: 100ms
Detector Type: Peak

Port 1
Port 2



CF: 2.462GHz
Span: 29MHz
RBW: 200kHz
VBW: 1MHz
Sweep Time: 100ms
Detector Type: Sample



| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 8.075M | 2.45795G | 2.466025G | 13.725M | 2.455014G | 2.468739G | 500k | 1 |
| 8.55M | 2.457475G | 2.466025G | 14.058M | 2.454783G | 2.468841G | 500k | 2 |

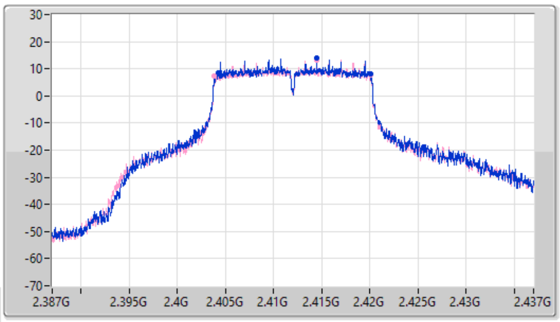
## 2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX **EBW**

## 2412MHz

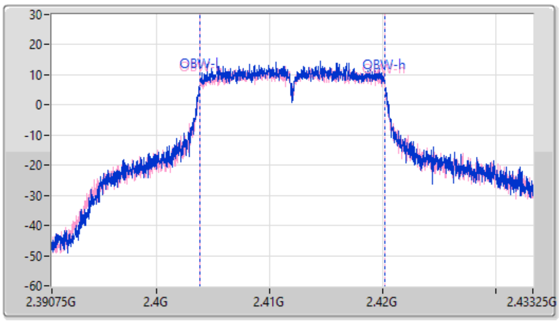
02/03/2023

CF: 2.412GHz
Span: 50MHz
RBW: 100kHz
VBW: 300kHz
Sweep Time: 100ms
Detector Type: Peak

Port 1
Port 2



CF: 2.412GHz
Span: 42.5MHz
RBW: 200kHz
VBW: 1MHz
Sweep Time: 100ms
Detector Type: Sample

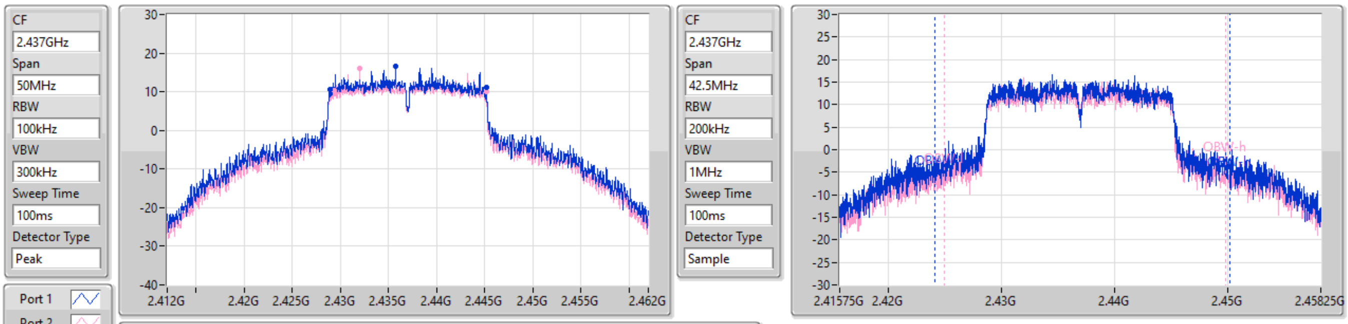


| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 15.9M | 2.404225G | 2.420125G | 16.397M | 2.403802G | 2.420198G | 500k | 1 |
| 16.275M | 2.40385G | 2.420125G | 16.439M | 2.40378G | 2.42022G | 500k | 2 |

**2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX** **EBW**

**2437MHz**

02/03/2023

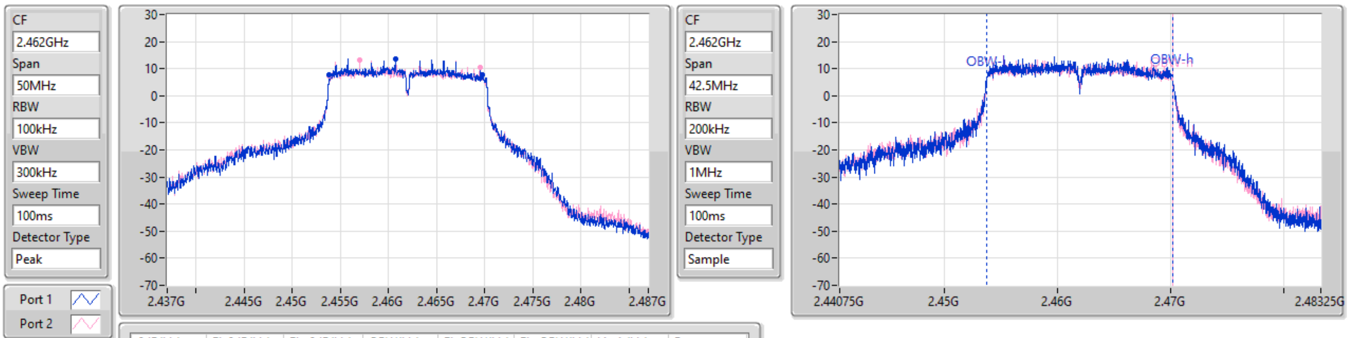



| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 16.275M | 2.428875G | 2.44515G | 26.124M | 2.424129G | 2.450253G | 500k | 1 |
| 15.8M | 2.42935G | 2.44515G | 24.765M | 2.425042G | 2.449807G | 500k | 2 |

**2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX** **EBW**

**2462MHz**

02/03/2023




| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 15.9M | 2.45385G | 2.46975G | 16.439M | 2.453717G | 2.470156G | 500k | 1 |
| 15.7M | 2.453825G | 2.469525G | 16.439M | 2.453717G | 2.470156G | 500k | 2 |

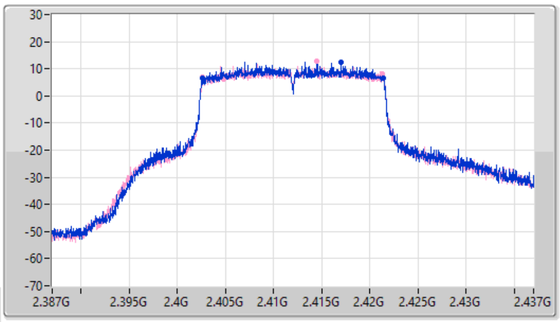
## 2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX 2412MHz

**EBW**

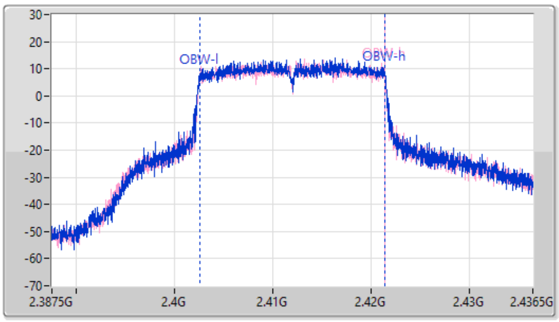
02/03/2023

CF: 2.412GHz
Span: 50MHz
RBW: 100kHz
VBW: 300kHz
Sweep Time: 100ms
Detector Type: Peak

Port 1
Port 2




CF: 2.412GHz
Span: 49MHz
RBW: 200kHz
VBW: 1MHz
Sweep Time: 100ms
Detector Type: Sample




| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 18.8M | 2.40265G | 2.42145G | 18.905M | 2.402523G | 2.421428G | 500k | 1 |
| 18.675M | 2.40265G | 2.421325G | 18.856M | 2.402572G | 2.421428G | 500k | 2 |

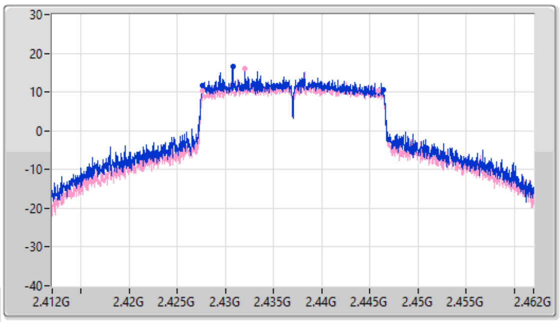
## 2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX 2437MHz

**EBW**

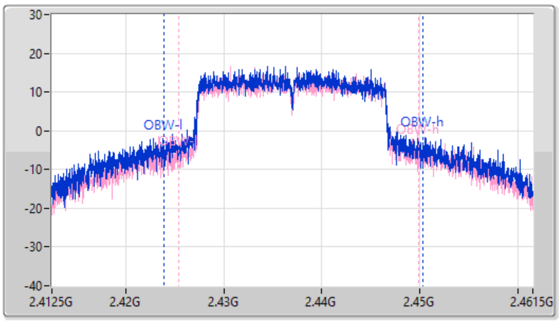
02/03/2023

CF: 2.437GHz
Span: 50MHz
RBW: 100kHz
VBW: 300kHz
Sweep Time: 100ms
Detector Type: Peak

Port 1
Port 2




CF: 2.437GHz
Span: 49MHz
RBW: 200kHz
VBW: 1MHz
Sweep Time: 100ms
Detector Type: Sample

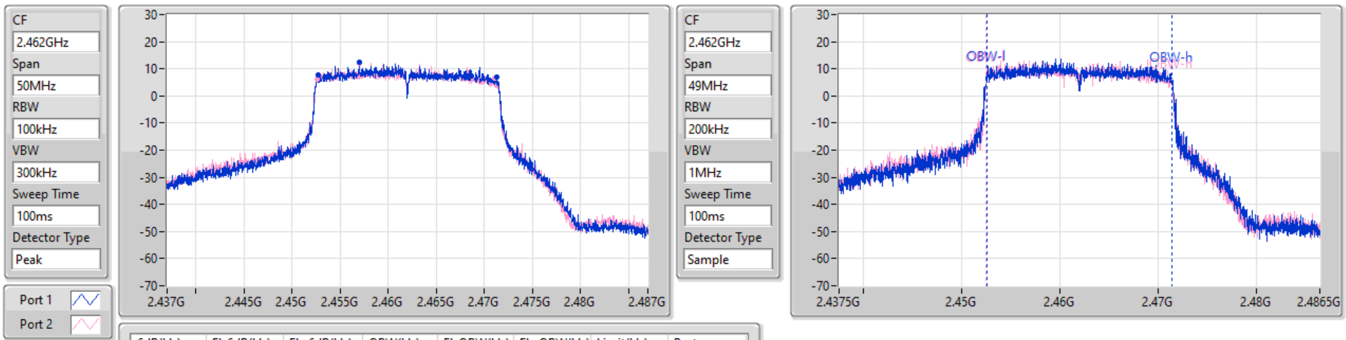



| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 18.8M | 2.42755G | 2.44635G | 26.398M | 2.423948G | 2.450346G | 500k | 1 |
| 18.2M | 2.4276G | 2.4458G | 24.463M | 2.425393G | 2.449856G | 500k | 2 |

## 2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX 2462MHz

EBW

02/03/2023

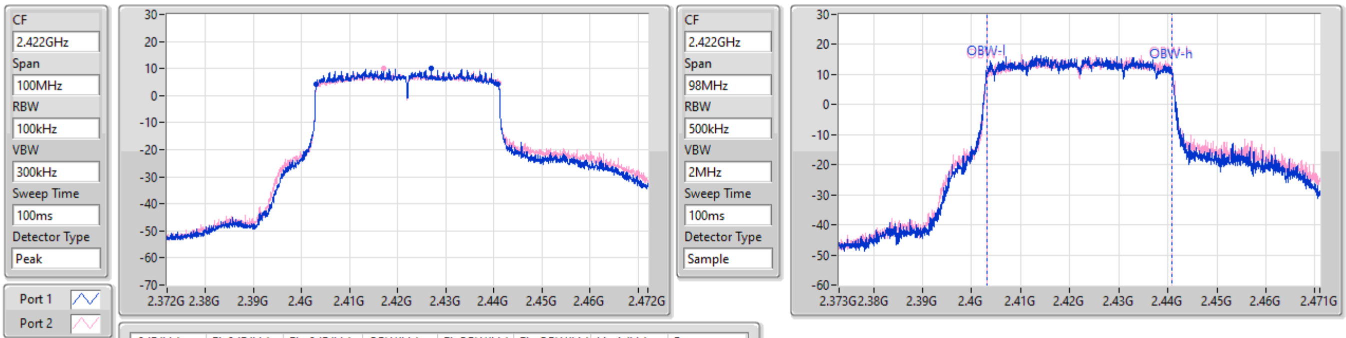



| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 18.575M | 2.4527G | 2.471275G | 18.856M | 2.452523G | 2.471379G | 500k | 1 |
| 18.5M | 2.45255G | 2.47105G | 18.88M | 2.452499G | 2.471379G | 500k | 2 |

## 2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX 2422MHz

EBW

02/03/2023




| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 37.9M | 2.403G | 2.4409G | 37.76M | 2.403095G | 2.4408565G | 500k | 1 |
| 37.8M | 2.40315G | 2.44095G | 37.809M | 2.403144G | 2.440954G | 500k | 2 |

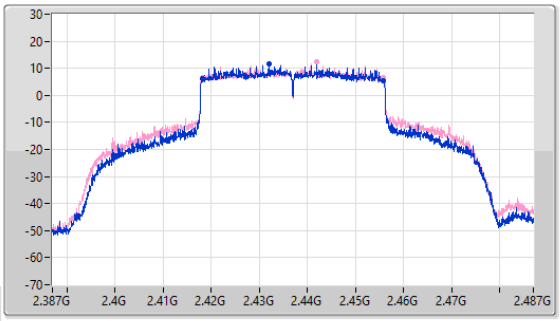
## 2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX 2437MHz

**EBW**

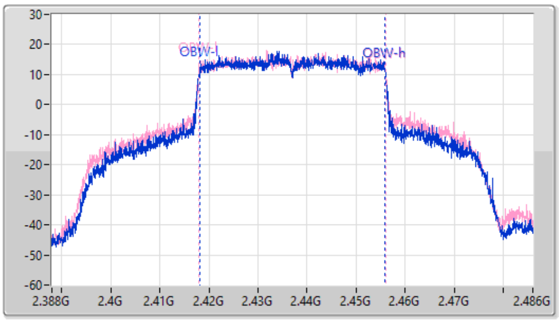
02/03/2023

| | |
|---|---|
| CF | 2.437GHz |
| Span | 100MHz |
| RBW | 100kHz |
| VBW | 300kHz |
| Sweep Time | 100ms |
| Detector Type | Peak |

Port 1
Port 2



| | |
|---|---|
| CF | 2.437GHz |
| Span | 98MHz |
| RBW | 500kHz |
| VBW | 2MHz |
| Sweep Time | 100ms |
| Detector Type | Sample |




| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 37.75M | 2.4181G | 2.45585G | 37.907M | 2.418046G | 2.455954G | 500k | 1 |
| 37.5M | 2.4183G | 2.4558G | 38.201M | 2.4179G | 2.4561G | 500k | 2 |

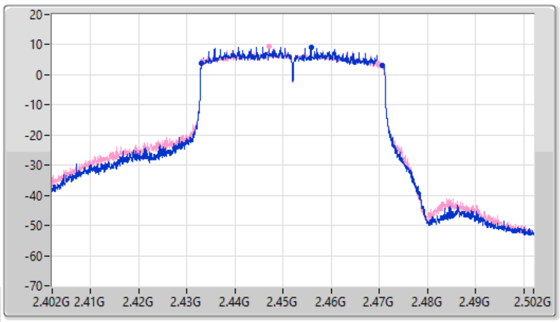
## 2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX 2452MHz

**EBW**

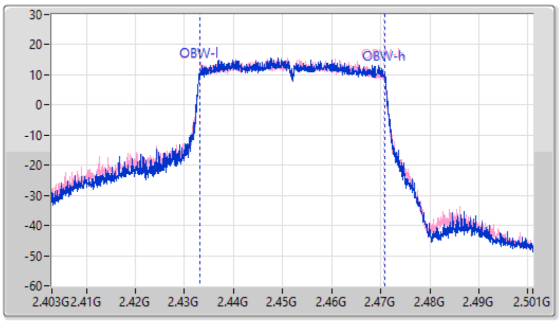
02/03/2023

| | |
|---|---|
| CF | 2.452GHz |
| Span | 100MHz |
| RBW | 100kHz |
| VBW | 300kHz |
| Sweep Time | 100ms |
| Detector Type | Peak |

Port 1
Port 2



| | |
|---|---|
| CF | 2.452GHz |
| Span | 98MHz |
| RBW | 500kHz |
| VBW | 2MHz |
| Sweep Time | 100ms |
| Detector Type | Sample |




| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 37.55M | 2.43305G | 2.4706G | 37.76M | 2.433046G | 2.470807G | 500k | 1 |
| 36.55M | 2.43315G | 2.4697G | 37.662M | 2.433046G | 2.470709G | 500k | 2 |

Summary

| Mode | Total Power (dBm) | Total Power (W) |
|---|---|---|
| 2.4-2.4835GHz | - | - |
| 802.11b_Nss1,(1Mbps)_2TX | 29.98 | 0.99541 |
| 802.11g_Nss1,(6Mbps)_2TX | 29.68 | 0.92897 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 29.79 | 0.95280 |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | 29.32 | 0.85507 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 28.46 | 0.70146 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | 28.46 | 0.70146 |

Result

| Mode | Result | DG (dBi) | Port 1 (dBm) | Port 2 (dBm) | Total Power (dBm) | Power Limit (dBm) |
|---|---|---|---|---|---|---|
| 802.11b_Nss1,(1Mbps)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 4.14 | 26.72 | 26.53 | 29.64 | 30.00 |
| 2437MHz | Pass | 4.14 | 27.19 | 26.73 | 29.98 | 30.00 |
| 2462MHz | Pass | 4.14 | 26.84 | 26.75 | 29.81 | 30.00 |
| 802.11g_Nss1,(6Mbps)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 4.14 | 24.48 | 24.16 | 27.33 | 30.00 |
| 2417MHz | Pass | 4.14 | 26.25 | 25.92 | 29.10 | 30.00 |
| 2437MHz | Pass | 4.14 | 27.04 | 26.27 | 29.68 | 30.00 |
| 2457MHz | Pass | 4.14 | 26.45 | 25.52 | 29.02 | 30.00 |
| 2462MHz | Pass | 4.14 | 24.14 | 23.85 | 27.01 | 30.00 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 4.14 | 24.12 | 23.81 | 26.98 | 30.00 |
| 2417MHz | Pass | 4.14 | 26.42 | 26.03 | 29.24 | 30.00 |
| 2437MHz | Pass | 4.14 | 27.18 | 26.34 | 29.79 | 30.00 |
| 2457MHz | Pass | 4.14 | 26.49 | 25.62 | 29.09 | 30.00 |
| 2462MHz | Pass | 4.14 | 23.33 | 23.19 | 26.27 | 30.00 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2422MHz | Pass | 4.14 | 23.75 | 23.63 | 26.70 | 30.00 |
| 2437MHz | Pass | 4.14 | 25.32 | 25.57 | 28.46 | 30.00 |
| 2452MHz | Pass | 4.14 | 22.74 | 22.81 | 25.79 | 30.00 |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 6.43 | 24.12 | 23.81 | 26.98 | 29.57 |
| 2417MHz | Pass | 6.43 | 26.42 | 26.03 | 29.24 | 29.57 |
| 2437MHz | Pass | 6.43 | 26.73 | 25.84 | 29.32 | 29.57 |
| 2457MHz | Pass | 6.43 | 26.49 | 25.62 | 29.09 | 29.57 |
| 2462MHz | Pass | 6.43 | 23.33 | 23.19 | 26.27 | 29.57 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2422MHz | Pass | 6.43 | 23.75 | 23.63 | 26.70 | 29.57 |
| 2437MHz | Pass | 6.43 | 25.32 | 25.57 | 28.46 | 29.57 |
| 2452MHz | Pass | 6.43 | 22.74 | 22.81 | 25.79 | 29.57 |

DG = Directional Gain; Port X = Port X output power

Summary

| Mode | PD (dBm/RBW) |
|---|---|
| 2.4-2.4835GHz | - |
| 802.11b_Nss1,(1Mbps)_2TX | 6.20 |
| 802.11g_Nss1,(6Mbps)_2TX | 1.20 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 1.90 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -2.14 |

RBW = 3kHz;

Result

| Mode | Result | DG (dBi) | Port 1 (dBm/RBW) | Port 2 (dBm/RBW) | PD (dBm/RBW) | PD Limit (dBm/RBW) |
|---|---|---|---|---|---|---|
| 802.11b_Nss1,(1Mbps)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 6.43 | 2.57 | 3.64 | 5.94 | 7.57 |
| 2437MHz | Pass | 6.43 | 3.65 | 2.72 | 6.20 | 7.57 |
| 2462MHz | Pass | 6.43 | 3.34 | 2.91 | 6.14 | 7.57 |
| 802.11g_Nss1,(6Mbps)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 6.43 | -2.79 | -2.89 | 0.15 | 7.57 |
| 2437MHz | Pass | 6.43 | -1.01 | -1.74 | 1.20 | 7.57 |
| 2462MHz | Pass | 6.43 | -2.51 | -2.76 | -0.91 | 7.57 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 6.43 | -1.98 | -2.46 | -0.72 | 7.57 |
| 2437MHz | Pass | 6.43 | 0.76 | 0.18 | 1.90 | 7.57 |
| 2462MHz | Pass | 6.43 | -2.50 | -3.85 | -0.94 | 7.57 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2422MHz | Pass | 6.43 | -4.79 | -5.71 | -3.55 | 7.57 |
| 2437MHz | Pass | 6.43 | -3.71 | -3.82 | -2.14 | 7.57 |
| 2452MHz | Pass | 6.43 | -5.14 | -5.90 | -3.98 | 7.57 |

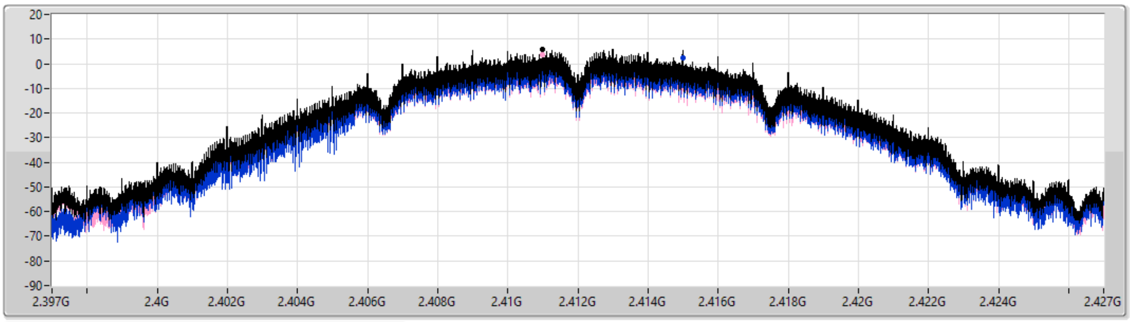
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

## 2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX 2412MHz

**PSD**

02/03/2023

| | |
|---|---|
| CF | 2.412GHz |
| Span | 30MHz |
| RBW | 3kHz |
| VBW | 10kHz |
| Sweep Time | 4.424357ms |
| Detector Type | Peak |



Sum / Port 1 / Port 2

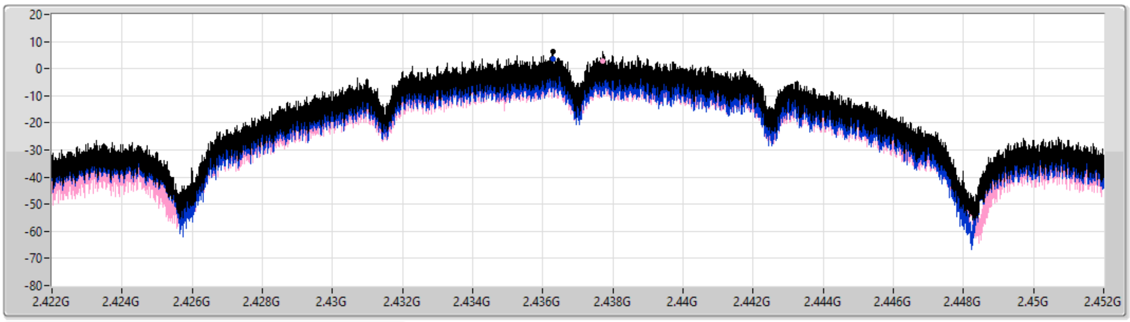
| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 5.94 | 5.94 | 2.57 | 3.64 |

## 2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX 2437MHz

**PSD**

02/03/2023

| | |
|---|---|
| CF | 2.437GHz |
| Span | 30MHz |
| RBW | 3kHz |
| VBW | 10kHz |
| Sweep Time | 4.424357ms |
| Detector Type | Peak |



Sum / Port 1 / Port 2

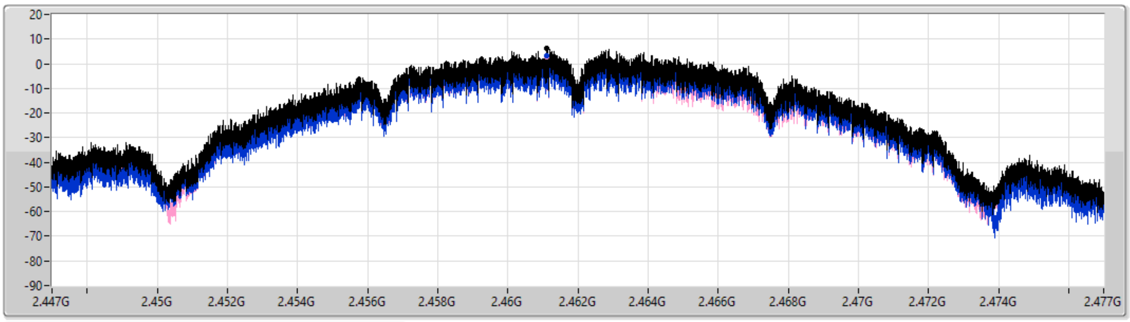
| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 6.20 | 6.20 | 3.65 | 2.72 |

## 2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX 2462MHz

**PSD**

02/03/2023

CF: 2.462GHz
Span: 30MHz
RBW: 3kHz
VBW: 10kHz
Sweep Time: 4.424357ms
Detector Type: Peak



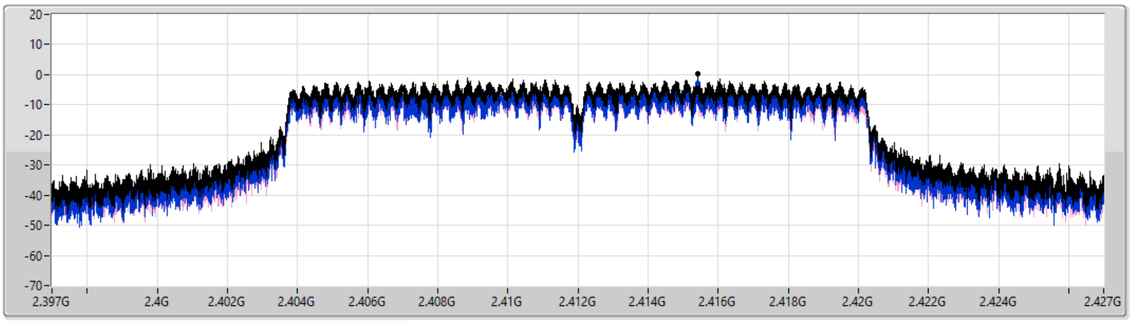

| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 6.14 | 6.14 | 3.34 | 2.91 |

## 2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX 2412MHz

**PSD**

02/03/2023

CF: 2.412GHz
Span: 30MHz
RBW: 3kHz
VBW: 10kHz
Sweep Time: 4.424357ms
Detector Type: Peak

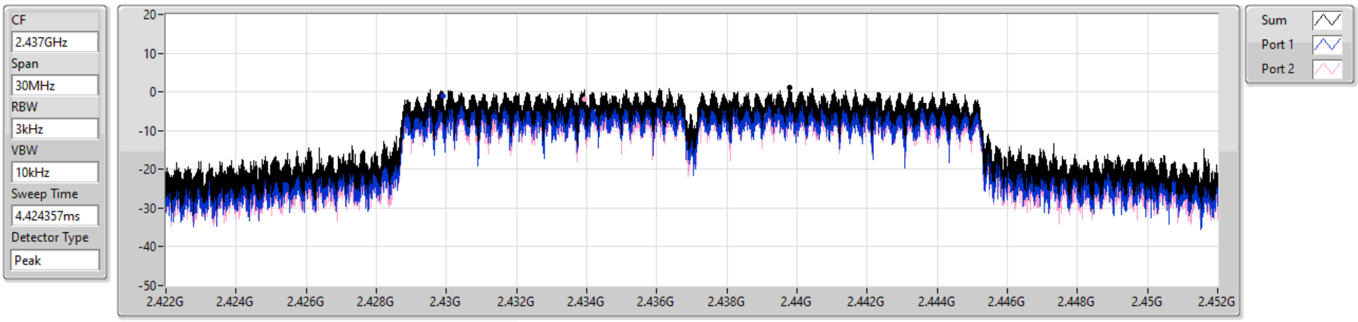



| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 0.15 | 0.15 | -2.79 | -2.89 |

## 2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX 2437MHz

**PSD**

02/03/2023

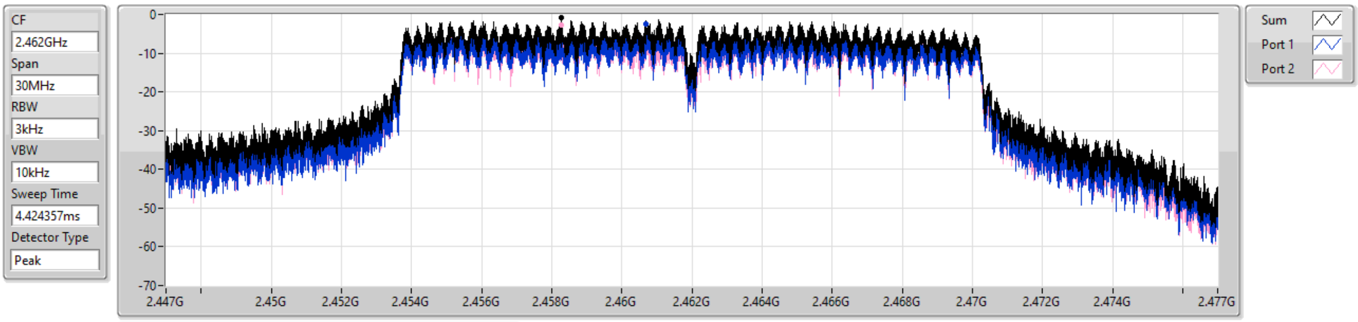



| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 1.20 | 1.20 | -1.01 | -1.74 |

## 2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX 2462MHz

**PSD**

02/03/2023

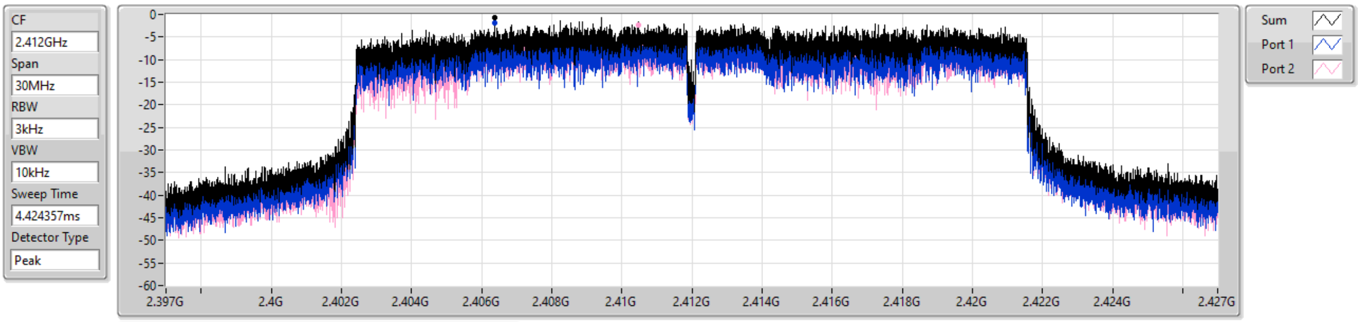



| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -0.91 | -0.91 | -2.51 | -2.76 |

## 2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX 2412MHz

**PSD**

02/03/2023

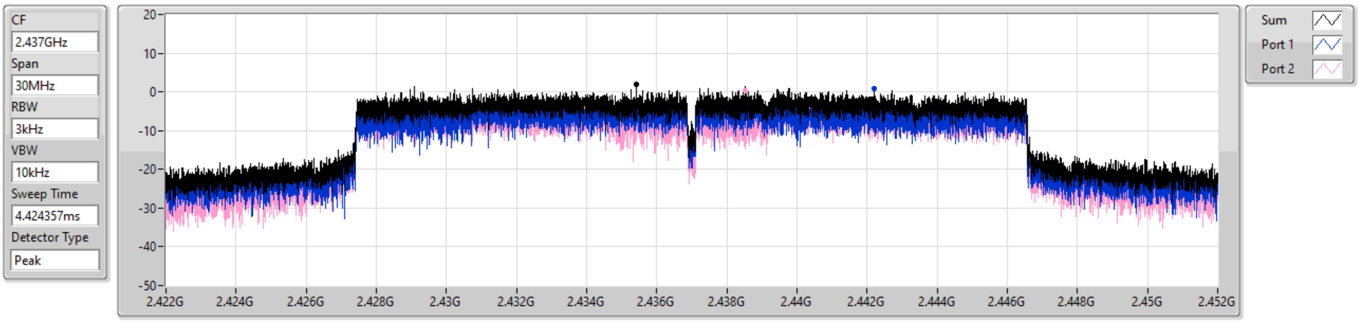



| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -0.72 | -0.72 | -1.98 | -2.46 |

## 2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX 2437MHz

**PSD**

02/03/2023



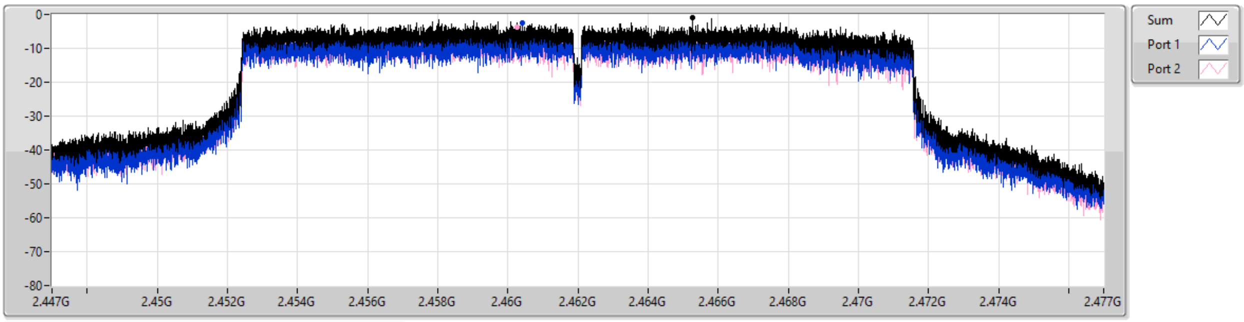

| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 1.90 | 1.90 | 0.76 | 0.18 |

**2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX** **PSD**

**2462MHz**

02/03/2023

CF: 2.462GHz
Span: 30MHz
RBW: 3kHz
VBW: 10kHz
Sweep Time: 4.424357ms
Detector Type: Peak



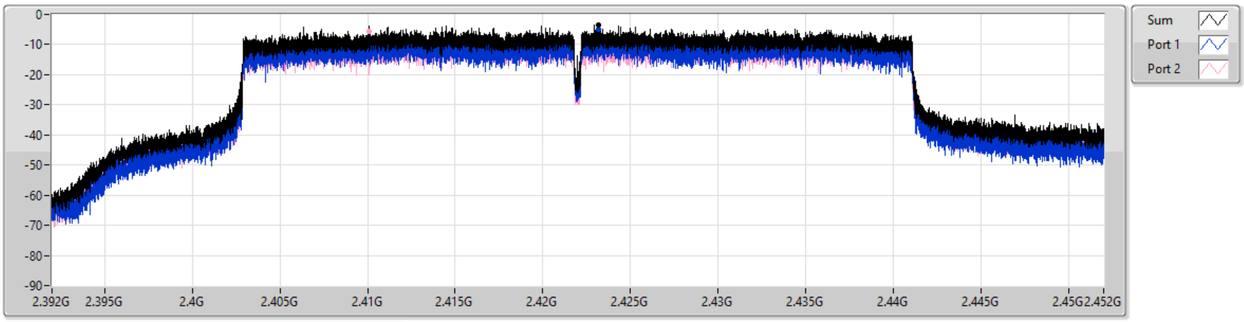

| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -0.94 | -0.94 | -2.50 | -3.85 |

**2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX** **PSD**

**2422MHz**

02/03/2023

CF: 2.422GHz
Span: 60MHz
RBW: 3kHz
VBW: 10kHz
Sweep Time: 8.848933ms
Detector Type: Peak

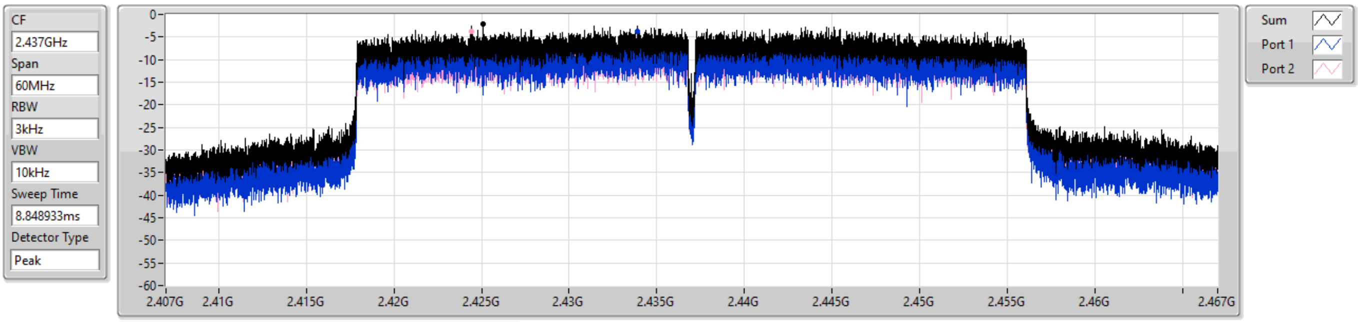



| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -3.55 | -3.55 | -4.79 | -5.71 |

**2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX** **PSD**

**2437MHz**

02/03/2023

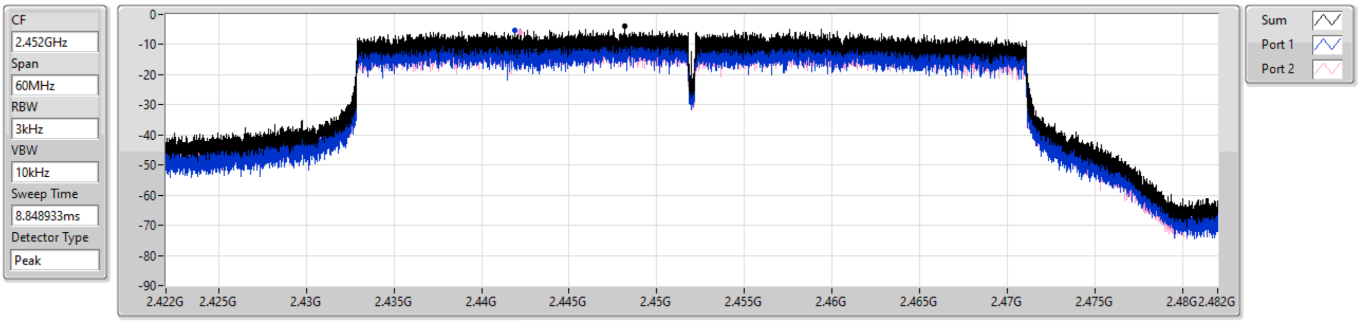



| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -2.14 | -2.14 | -3.71 | -3.82 |

**2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX** **PSD**

**2452MHz**

02/03/2023




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -3.98 | -3.98 | -5.14 | -5.90 |

Summary

| Mode | Result | Ref (Hz) | Ref (dBm) | Limit (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4-2.4835GHz | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 802.11b_Nss1,(1Mbps)_2TX | Pass | 2.43641G | 18.01 | -11.99 | 2.18875G | -52.67 | 2.4G | -30.77 | 2.4G | -29.26 | 2.50206G | -52.24 | 7.23514G | -28.72 | 1 |
| 802.11g_Nss1,(6Mbps)_2TX | Pass | 2.43574G | 16.71 | -13.29 | 816.38M | -53.03 | 2.3992G | -17.34 | 2.4G | -16.49 | 2.52166G | -51.75 | 7.24076G | -33.48 | 1 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | Pass | 2.43323G | 15.52 | -14.48 | 887.44M | -52.71 | 2.39976G | -17.60 | 2.4G | -16.50 | 2.52046G | -51.82 | 7.23795G | -34.58 | 2 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | Pass | 2.4344G | 11.77 | -18.23 | 825.78M | -52.06 | 2.39888G | -19.70 | 2.4G | -19.88 | 2.50318G | -50.38 | 16.25537G | -47.20 | 2 |

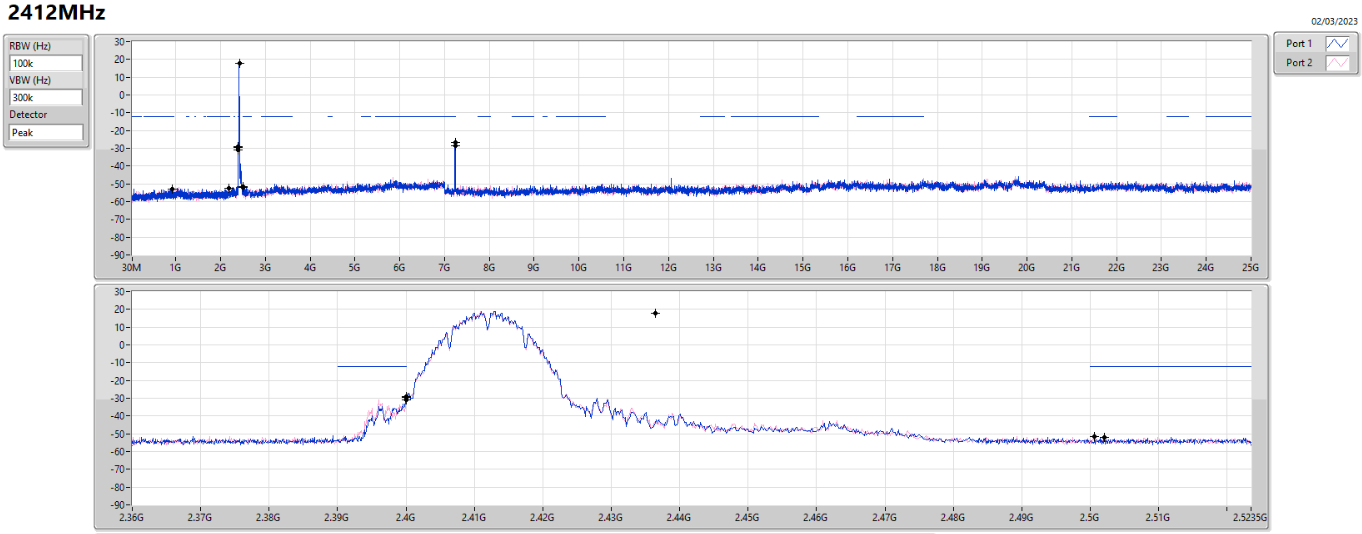
Result

| Mode | Result | Ref (Hz) | Ref (dBm) | Limit (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11b_Nss1,(1Mbps)_2TX | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2412MHz | Pass | 2.43641G | 18.01 | -11.99 | 2.18875G | -52.67 | 2.4G | -30.77 | 2.4G | -29.26 | 2.50206G | -52.24 | 7.23514G | -28.72 | 1 |
| 2412MHz | Pass | 2.43641G | 18.01 | -11.99 | 918.9M | -52.76 | 2.4G | -29.65 | 2.4G | -29.53 | 2.50062G | -51.74 | 7.23514G | -26.72 | 2 |
| 2437MHz | Pass | 2.43641G | 18.01 | -11.99 | 2.30991G | -52.89 | 2.39752G | -40.28 | 2.4G | -49.20 | 2.51206G | -51.97 | 6.12817G | -47.39 | 1 |
| 2437MHz | Pass | 2.43641G | 18.01 | -11.99 | 888.61M | -52.58 | 2.39928G | -43.61 | 2.4G | -48.74 | 2.50206G | -51.25 | 17.67266G | -46.79 | 2 |
| 2462MHz | Pass | 2.43641G | 18.01 | -11.99 | 1.94293G | -52.85 | 2.39912G | -47.67 | 2.4G | -49.49 | 2.51286G | -51.67 | 16.37745G | -47.96 | 1 |
| 2462MHz | Pass | 2.43641G | 18.01 | -11.99 | 1.79498G | -52.67 | 2.4G | -48.46 | 2.4G | -47.90 | 2.50766G | -51.69 | 16.20045G | -47.12 | 2 |
| 802.11g_Nss1,(6Mbps)_2TX | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2412MHz | Pass | 2.43574G | 16.71 | -13.29 | 816.38M | -53.03 | 2.3992G | -17.34 | 2.4G | -16.49 | 2.52166G | -51.75 | 7.24076G | -33.48 | 1 |
| 2412MHz | Pass | 2.43574G | 16.71 | -13.29 | 2.30175G | -52.54 | 2.3992G | -17.75 | 2.4G | -16.69 | 2.51118G | -49.31 | 7.24637G | -33.63 | 2 |
| 2437MHz | Pass | 2.43574G | 16.71 | -13.29 | 1.781G | -52.91 | 2.39952G | -30.51 | 2.4G | -32.06 | 2.5191G | -51.51 | 6.98228G | -47.21 | 1 |
| 2437MHz | Pass | 2.43574G | 16.71 | -13.29 | 1.65984G | -52.86 | 2.39704G | -31.91 | 2.4G | -32.86 | 2.50094G | -51.85 | 17.68671G | -45.86 | 2 |
| 2462MHz | Pass | 2.43574G | 16.71 | -13.29 | 853.66M | -51.97 | 2.39976G | -48.75 | 2.4G | -49.71 | 2.52294G | -51.49 | 5.98488G | -47.31 | 1 |
| 2462MHz | Pass | 2.43574G | 16.71 | -13.29 | 1.80896G | -52.63 | 2.39832G | -49.65 | 2.4G | -50.09 | 2.50886G | -50.36 | 6.96823G | -47.10 | 2 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2412MHz | Pass | 2.43323G | 15.52 | -14.48 | 924.72M | -52.71 | 2.3996G | -18.91 | 2.4G | -18.71 | 2.52078G | -51.38 | 7.24357G | -32.94 | 1 |
| 2412MHz | Pass | 2.43323G | 15.52 | -14.48 | 887.44M | -52.71 | 2.39976G | -17.60 | 2.4G | -16.50 | 2.52046G | -51.82 | 7.23795G | -34.58 | 2 |
| 2437MHz | Pass | 2.43323G | 15.52 | -14.48 | 948.02M | -53.15 | 2.39944G | -28.37 | 2.4G | -30.51 | 2.5007G | -51.30 | 17.0967G | -47.26 | 1 |
| 2437MHz | Pass | 2.43323G | 15.52 | -14.48 | 773.27M | -52.05 | 2.39904G | -31.51 | 2.4G | -32.77 | 2.51406G | -50.87 | 5.8135G | -46.96 | 2 |
| 2462MHz | Pass | 2.43323G | 15.52 | -14.48 | 2.30641G | -52.66 | 2.39896G | -49.31 | 2.4G | -50.83 | 2.51846G | -51.90 | 15.21148G | -47.46 | 1 |
| 2462MHz | Pass | 2.43323G | 15.52 | -14.48 | 472.7M | -52.63 | 2.39696G | -49.37 | 2.4G | -51.02 | 2.50886G | -51.45 | 17.67547G | -47.29 | 2 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2422MHz | Pass | 2.4344G | 11.77 | -18.23 | 1.79101G | -52.58 | 2.39968G | -25.01 | 2.4G | -25.31 | 2.50318G | -51.61 | 7.24992G | -39.52 | 1 |
| 2422MHz | Pass | 2.4344G | 11.77 | -18.23 | 2.12192G | -52.99 | 2.4G | -22.73 | 2.4G | -22.93 | 2.50638G | -51.53 | 7.24992G | -37.59 | 2 |
| 2437MHz | Pass | 2.4344G | 11.77 | -18.23 | 1.64331G | -52.79 | 2.39984G | -21.11 | 2.4G | -22.35 | 2.50462G | -51.59 | 16.33951G | -46.49 | 1 |
| 2437MHz | Pass | 2.4344G | 11.77 | -18.23 | 825.78M | -52.06 | 2.39888G | -19.70 | 2.4G | -19.88 | 2.50318G | -50.38 | 16.25537G | -47.20 | 2 |
| 2452MHz | Pass | 2.4344G | 11.77 | -18.23 | 2.1139G | -53.13 | 2.39968G | -38.99 | 2.4G | -38.31 | 2.50094G | -50.97 | 17.66887G | -47.69 | 1 |
| 2452MHz | Pass | 2.4344G | 11.77 | -18.23 | 2.30397G | -53.08 | 2.4G | -38.36 | 2.4G | -37.84 | 2.53246G | -51.60 | 21.86169G | -47.57 | 2 |

**2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX**

**CSENdB**

**2412MHz**

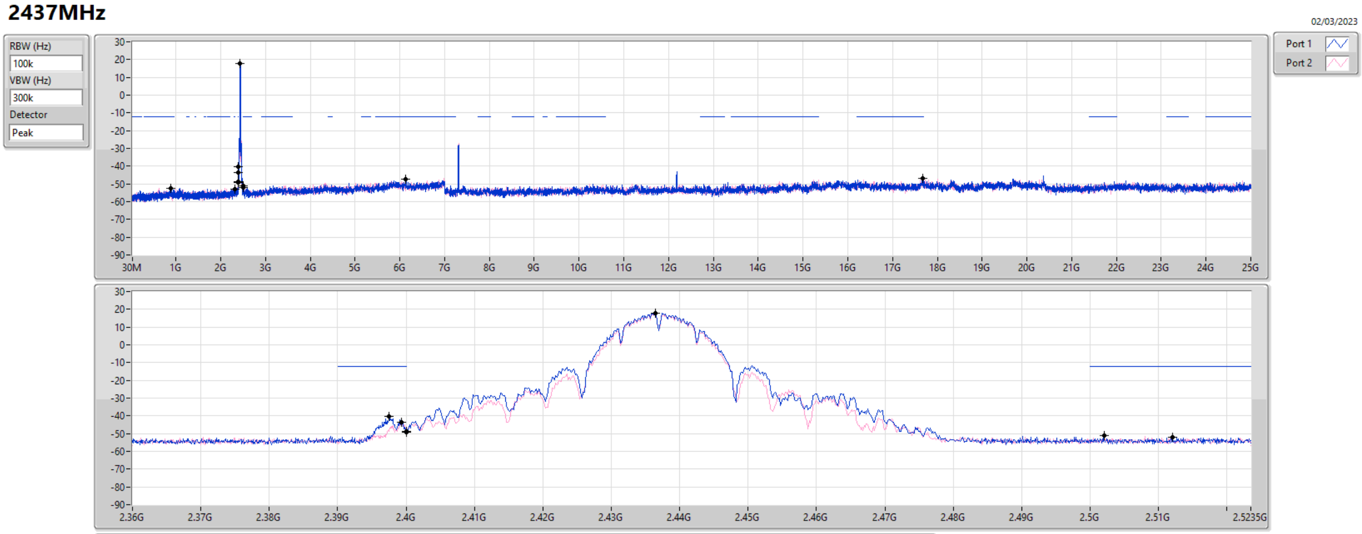



| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.43641G | 18.01 | -11.99 | 2.18875G | -52.67 | 2.4G | -30.77 | 2.4G | -29.26 | 2.50206G | -52.24 | 7.23514G | -28.72 | 1 |
| 2.43641G | 18.01 | -11.99 | 918.9M | -52.76 | 2.4G | -29.65 | 2.4G | -29.53 | 2.50062G | -51.74 | 7.23514G | -26.72 | 2 |

**2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX**

**CSENdB**

**2437MHz**



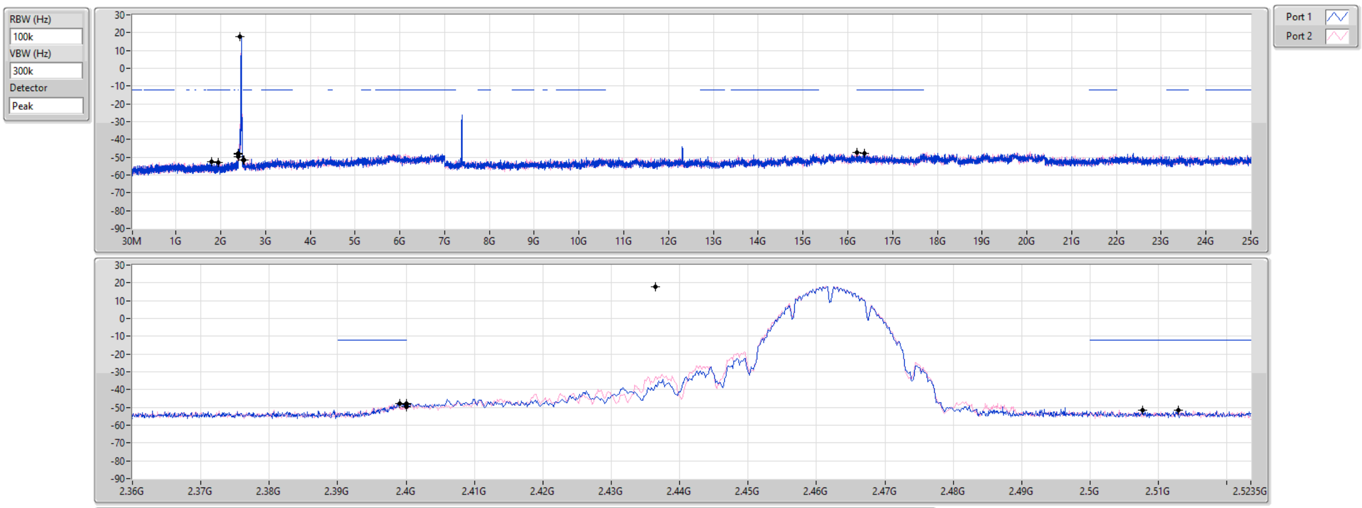

| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.43641G | 18.01 | -11.99 | 2.30991G | -52.89 | 2.39752G | -40.28 | 2.4G | -49.20 | 2.51206G | -51.97 | 6.12817G | -47.39 | 1 |
| 2.43641G | 18.01 | -11.99 | 888.61M | -52.58 | 2.39928G | -43.61 | 2.4G | -48.74 | 2.50206G | -51.25 | 17.67266G | -46.79 | 2 |

## 2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

**CSENdB**

**2462MHz**

02/03/2023



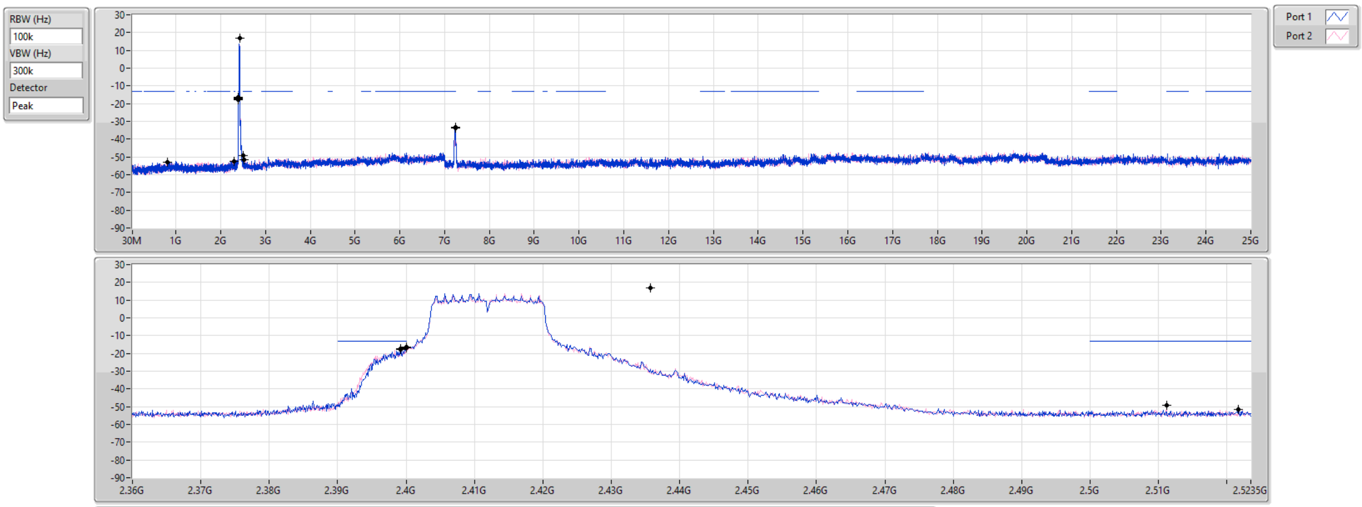

| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.43641G | 18.01 | -11.99 | 1.94293G | -52.85 | 2.39912G | -47.67 | 2.4G | -49.49 | 2.51286G | -51.67 | 16.37745G | -47.96 | 1 |
| 2.43641G | 18.01 | -11.99 | 1.79498G | -52.67 | 2.4G | -48.46 | 2.4G | -47.90 | 2.50766G | -51.69 | 16.20045G | -47.12 | 2 |

## 2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

**CSENdB**

**2412MHz**

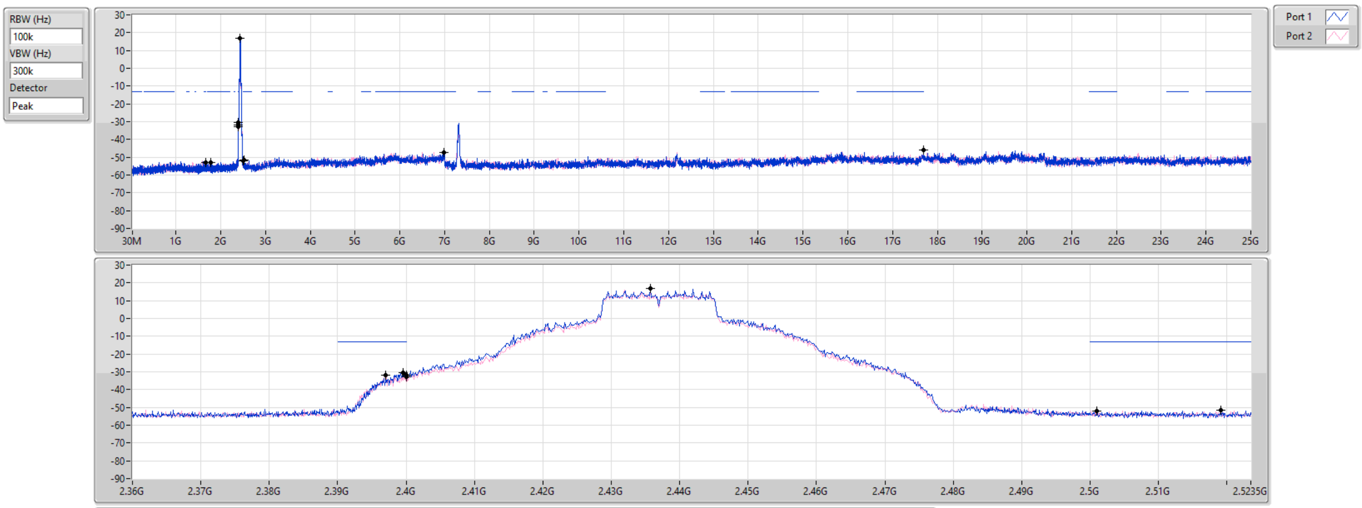
02/03/2023




| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.43574G | 16.71 | -13.29 | 816.38M | -53.03 | 2.3992G | -17.34 | 2.4G | -16.49 | 2.52166G | -51.75 | 7.24076G | -33.48 | 1 |
| 2.43574G | 16.71 | -13.29 | 2.30175G | -52.54 | 2.3992G | -17.75 | 2.4G | -16.69 | 2.51118G | -49.31 | 7.24637G | -33.63 | 2 |

**2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX** **CSENdB**

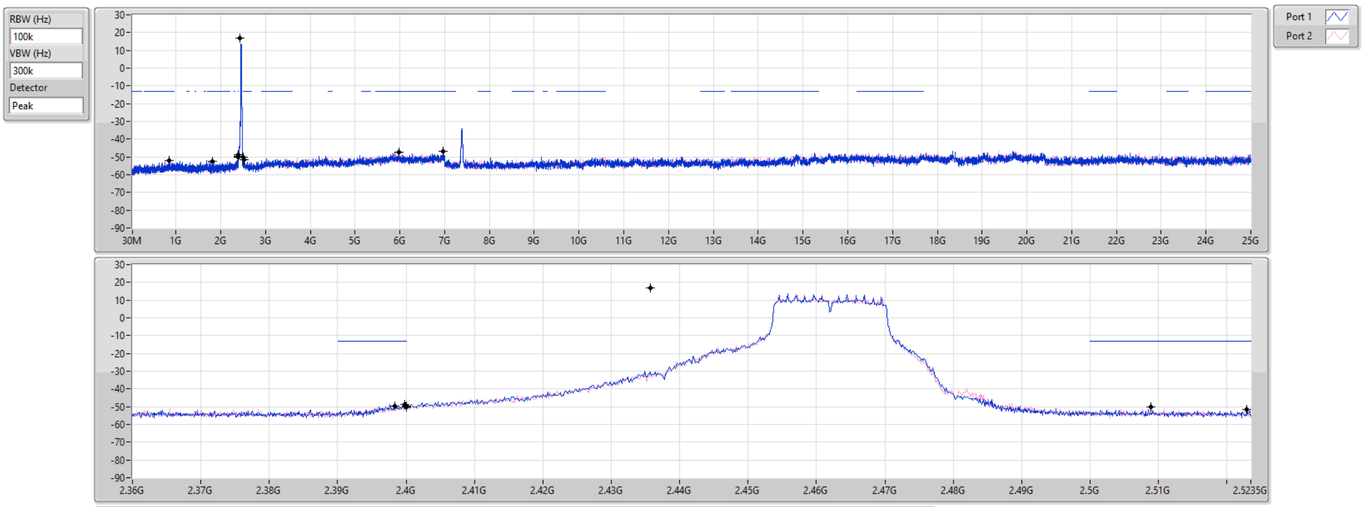
**2437MHz**




| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.43574G | 16.71 | -13.29 | 1.781G | -52.91 | 2.39952G | -30.51 | 2.4G | -32.06 | 2.5191G | -51.51 | 6.98228G | -47.21 | 1 |
| 2.43574G | 16.71 | -13.29 | 1.65984G | -52.86 | 2.39704G | -31.91 | 2.4G | -32.86 | 2.50094G | -51.85 | 17.68671G | -45.86 | 2 |

**2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX** **CSENdB**

**2462MHz**

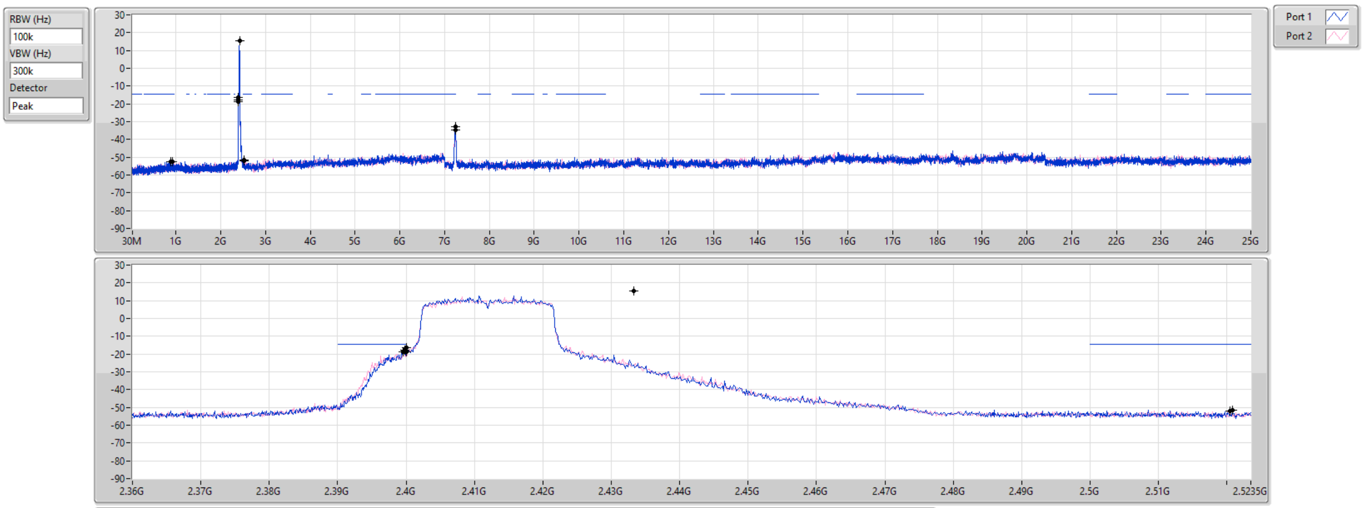



| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.43574G | 16.71 | -13.29 | 853.66M | -51.97 | 2.39976G | -48.75 | 2.4G | -49.71 | 2.52294G | -51.49 | 5.98488G | -47.31 | 1 |
| 2.43574G | 16.71 | -13.29 | 1.80896G | -52.63 | 2.39832G | -49.65 | 2.4G | -50.09 | 2.50886G | -50.36 | 6.96823G | -47.10 | 2 |

**2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX** **CSENdB**

**2412MHz**

02/03/2023

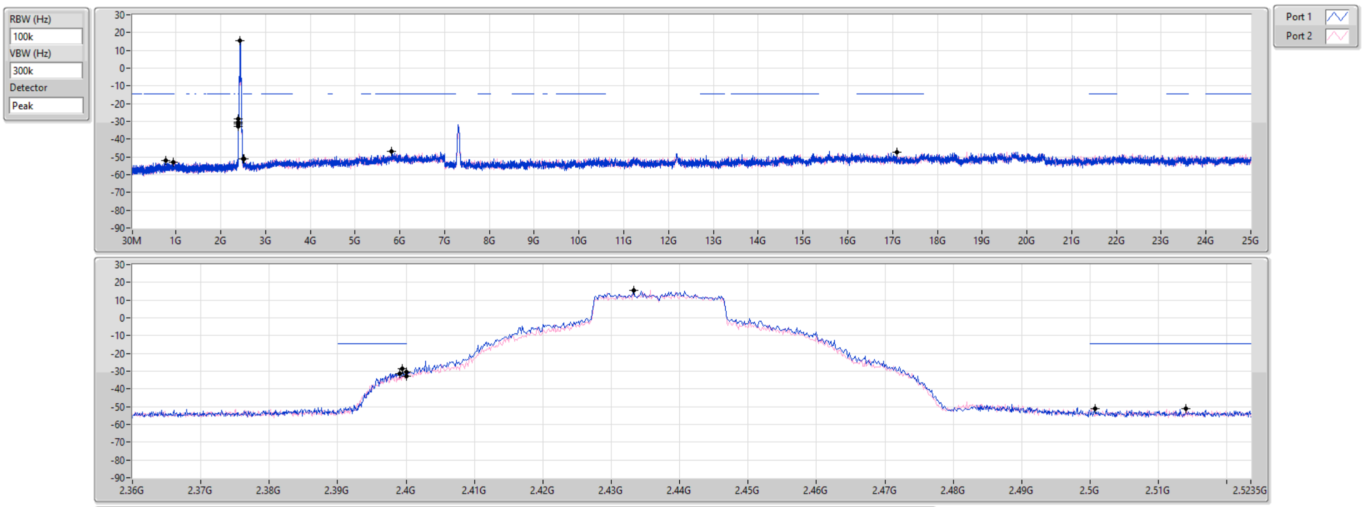



| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.43323G | 15.52 | -14.48 | 924.72M | -52.71 | 2.3996G | -18.91 | 2.4G | -18.71 | 2.52078G | -51.38 | 7.24357G | -32.94 | 1 |
| 2.43323G | 15.52 | -14.48 | 887.44M | -52.71 | 2.39976G | -17.60 | 2.4G | -16.50 | 2.52046G | -51.82 | 7.23795G | -34.58 | 2 |

**2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX** **CSENdB**

**2437MHz**

02/03/2023



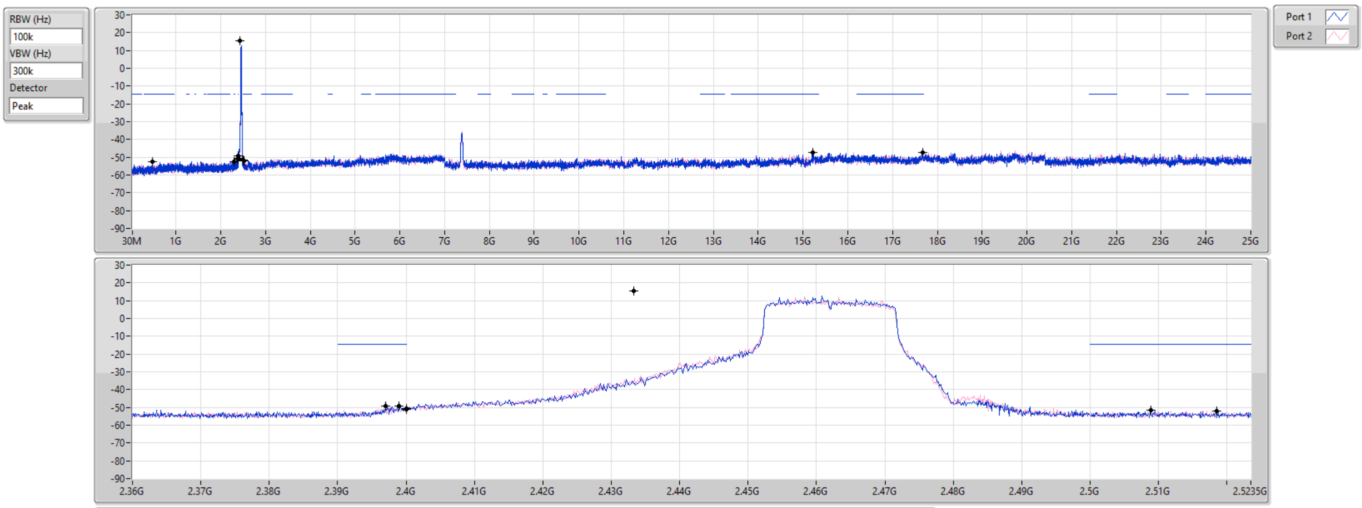

| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.43323G | 15.52 | -14.48 | 948.02M | -53.15 | 2.39944G | -28.37 | 2.4G | -30.51 | 2.5007G | -51.30 | 17.0967G | -47.26 | 1 |
| 2.43323G | 15.52 | -14.48 | 773.27M | -52.05 | 2.39904G | -31.51 | 2.4G | -32.77 | 2.51406G | -50.87 | 5.8135G | -46.96 | 2 |

## 2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

**CSENdB**

**2462MHz**

02/03/2023



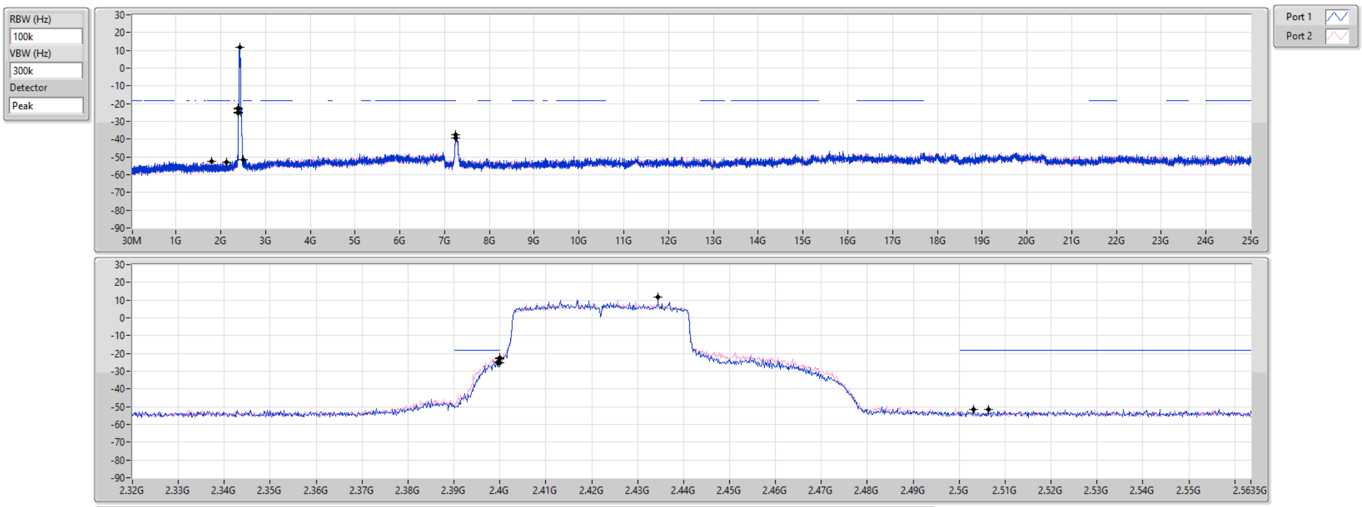

| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.43323G | 15.52 | -14.48 | 2.30641G | -52.66 | 2.39896G | -49.31 | 2.4G | -50.83 | 2.51846G | -51.90 | 15.21148G | -47.46 | 1 |
| 2.43323G | 15.52 | -14.48 | 472.7M | -52.63 | 2.39696G | -49.37 | 2.4G | -51.02 | 2.50886G | -51.45 | 17.67547G | -47.29 | 2 |

## 2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

**CSENdB**

**2422MHz**

02/03/2023

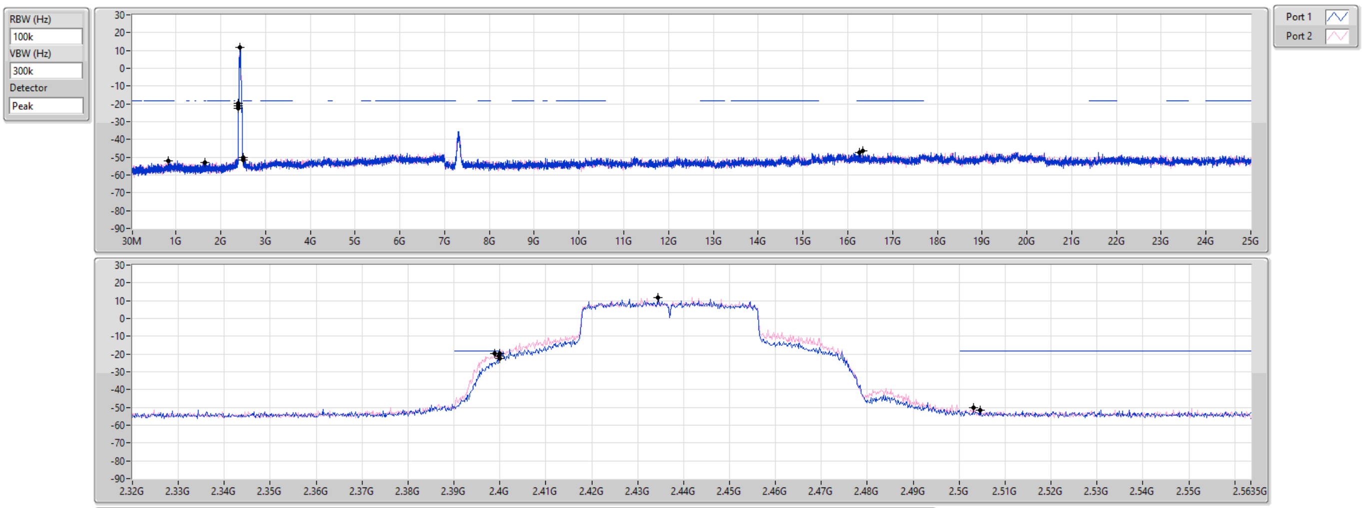



| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4344G | 11.77 | -18.23 | 1.79101G | -52.58 | 2.39968G | -25.01 | 2.4G | -25.31 | 2.50318G | -51.61 | 7.24992G | -39.52 | 1 |
| 2.4344G | 11.77 | -18.23 | 2.12192G | -52.99 | 2.4G | -22.73 | 2.4G | -22.93 | 2.50638G | -51.53 | 7.24992G | -37.59 | 2 |

**2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX** **CSENdB**

**2437MHz**

02/03/2023

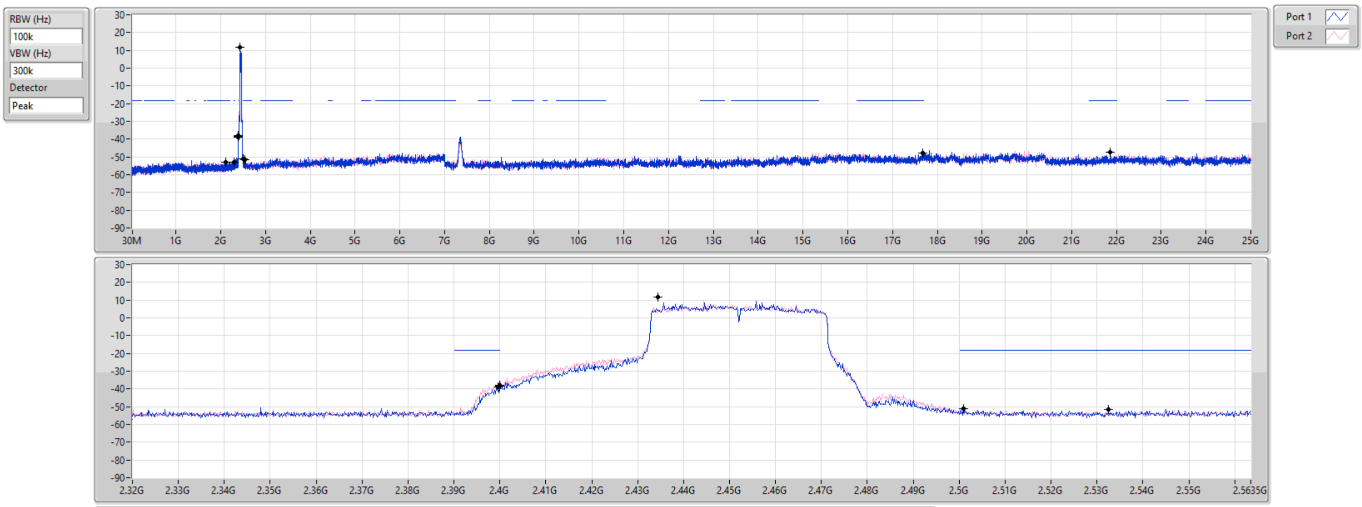



| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4344G | 11.77 | -18.23 | 1.64331G | -52.79 | 2.39984G | -21.11 | 2.4G | -22.35 | 2.50462G | -51.59 | 16.33951G | -46.49 | 1 |
| 2.4344G | 11.77 | -18.23 | 825.78M | -52.06 | 2.39888G | -19.70 | 2.4G | -19.88 | 2.50318G | -50.38 | 16.25537G | -47.20 | 2 |

**2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX** **CSENdB**

**2452MHz**

02/03/2023

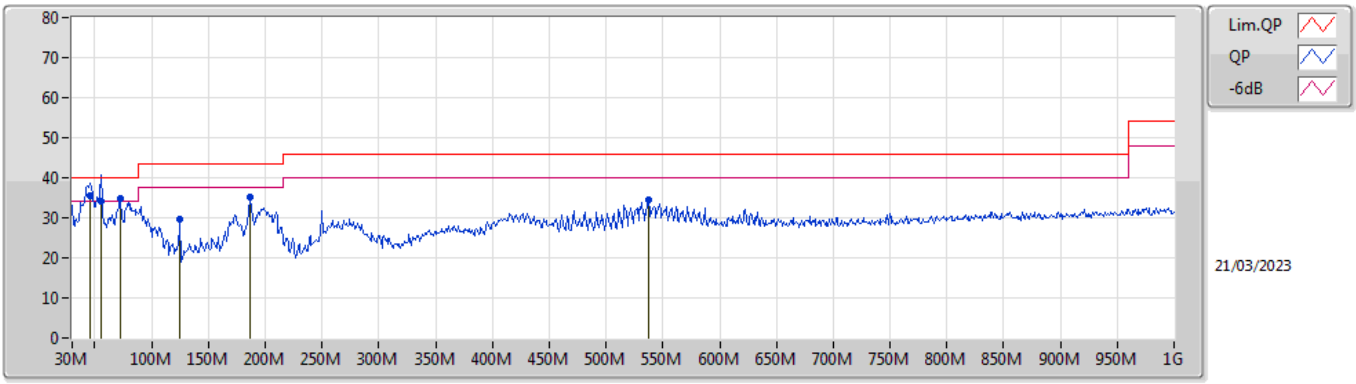



| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4344G | 11.77 | -18.23 | 2.1139G | -53.13 | 2.39968G | -38.99 | 2.4G | -38.31 | 2.50094G | -50.97 | 17.66887G | -47.69 | 1 |
| 2.4344G | 11.77 | -18.23 | 2.30397G | -53.08 | 2.4G | -38.36 | 2.4G | -37.84 | 2.53246G | -51.60 | 21.86169G | -47.57 | 2 |

Summary

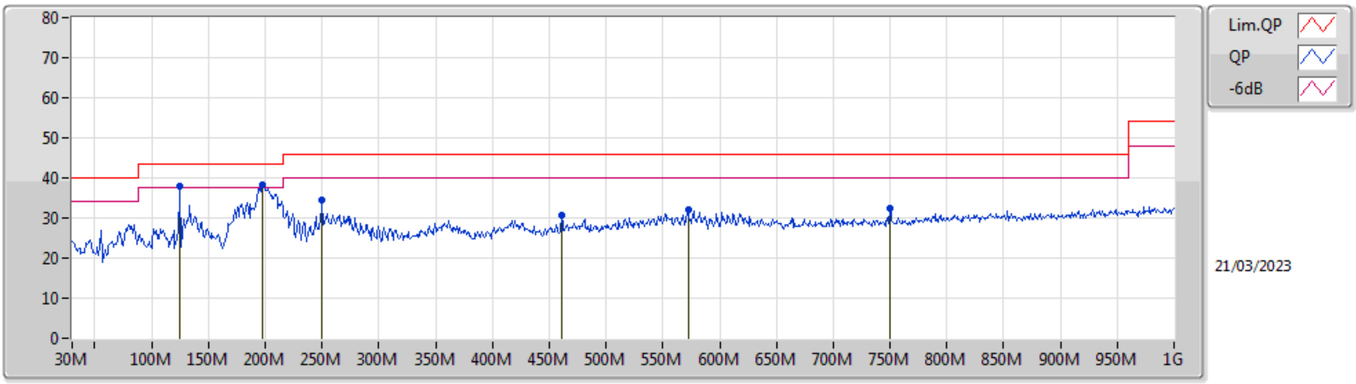
| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Condition |
|---|---|---|---|---|---|---|---|
| Mode 3 | Pass | QP | 45.52M | 35.67 | 40.00 | -4.33 | Vertical |

# Mode 3




| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB/m) | (m) | | (°) | (m) | | (dBuV/m) | (dB/m) | (dB) | (dB) |
| QP | 45.52M | 35.67 | 40.00 | -4.33 | -14.83 | 3 | Vertical | 355 | 1.00 | "Worst" | 50.50 | 15.78 | 1.22 | 31.83 |
| QP | 55.22M | 34.21 | 40.00 | -5.79 | -17.89 | 3 | Vertical | 17 | 1.25 | - | 52.10 | 12.69 | 1.31 | 31.89 |
| PK | 72.68M | 34.84 | 40.00 | -5.16 | -18.32 | 3 | Vertical | 174 | 1.25 | - | 53.16 | 12.17 | 1.48 | 31.97 |
| PK | 125.06M | 29.51 | 43.50 | -13.99 | -12.19 | 3 | Vertical | 230 | 1.00 | - | 41.70 | 17.89 | 1.90 | 31.98 |
| PK | 186.17M | 35.33 | 43.50 | -8.17 | -14.80 | 3 | Vertical | 212 | 1.00 | - | 50.13 | 14.88 | 2.33 | 32.01 |
| PK | 537.31M | 34.62 | 46.00 | -11.38 | -4.47 | 3 | Vertical | 155 | 1.00 | - | 39.09 | 23.77 | 4.15 | 32.39 |

## Mode 3



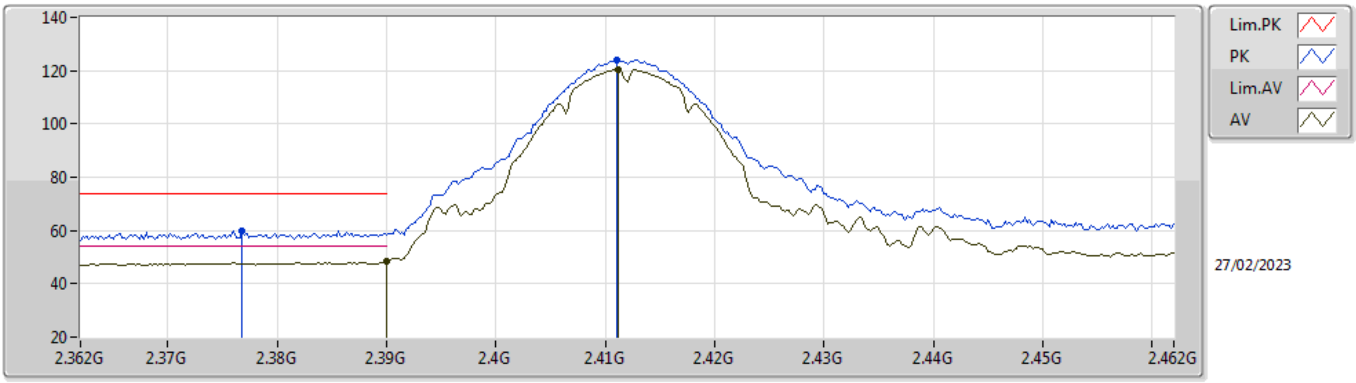

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB/m) | (m) | | (°) | (m) | | (dBuV/m) | (dB/m) | (dB) | (dB) |
| PK | 125.06M | 37.92 | 43.50 | -5.58 | -12.19 | 3 | Horizontal | 76 | 3.00 | - | 50.11 | 17.89 | 1.90 | 31.98 |
| PK | 197.81M | 38.16 | 43.50 | -5.34 | -14.62 | 3 | Horizontal | 268 | 1.50 | "Worst" | 52.78 | 14.99 | 2.41 | 32.02 |
| PK | 250.19M | 34.54 | 46.00 | -11.46 | -11.06 | 3 | Horizontal | 137 | 1.00 | - | 45.60 | 18.22 | 2.72 | 32.00 |
| PK | 460.68M | 30.69 | 46.00 | -15.31 | -5.71 | 3 | Horizontal | 240 | 1.50 | - | 36.40 | 22.76 | 3.82 | 32.29 |
| PK | 572.23M | 32.23 | 46.00 | -13.77 | -3.86 | 3 | Horizontal | 239 | 1.50 | - | 36.09 | 24.28 | 4.30 | 32.44 |
| PK | 749.74M | 32.35 | 46.00 | -13.65 | -2.34 | 3 | Horizontal | 139 | 1.25 | - | 34.69 | 25.26 | 5.01 | 32.61 |

Summary

| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4-2.4835GHz | - | - | - | - | - | - | - | - | - | - | - |
| 802.11g_Nss1,(6Mbps)_2TX | Pass | AV | 2.4835G | 53.75 | 54.00 | -0.25 | 3 | Vertical | 314 | 1.80 | - |

## 2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

## 2412MHz_TX

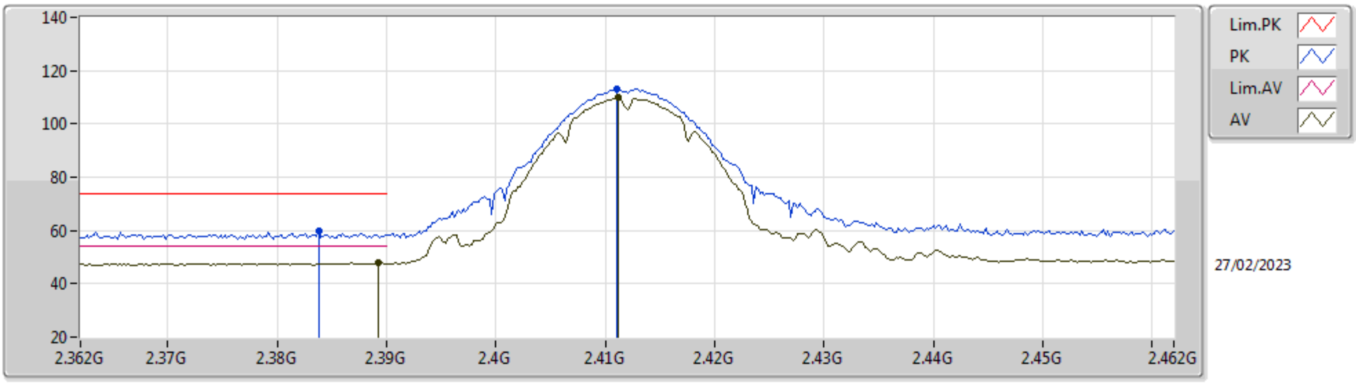



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.3768G | 59.80 | 74.00 | -14.20 | 28.47 | 3 | Vertical | 16 | 1.80 | - | 27.75 | 3.58 | - |
| AV | 2.39G | 48.46 | 54.00 | -5.54 | 17.09 | 3 | Vertical | 16 | 1.80 | - | 27.78 | 3.59 | - |
| PK | 2.411G | 124.03 | Inf | -Inf | 92.60 | 3 | Vertical | 16 | 1.80 | - | 27.82 | 3.61 | - |
| AV | 2.4112G | 120.57 | Inf | -Inf | 89.14 | 3 | Vertical | 16 | 1.80 | - | 27.82 | 3.61 | - |

## 2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

## 2412MHz_TX

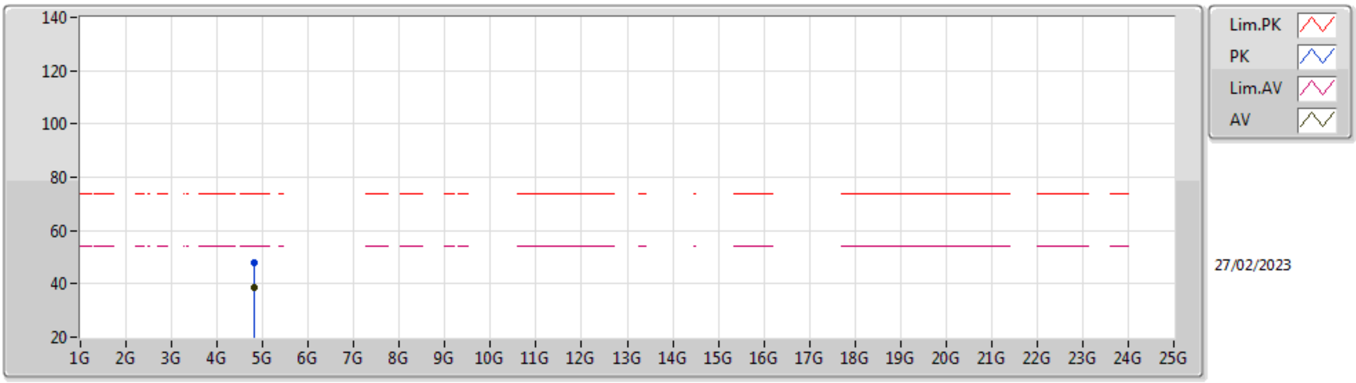



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.3838G | 59.58 | 74.00 | -14.42 | 28.23 | 3 | Horizontal | 79 | 1.20 | - | 27.77 | 3.58 | - |
| AV | 2.3892G | 47.99 | 54.00 | -6.01 | 16.62 | 3 | Horizontal | 79 | 1.20 | - | 27.78 | 3.59 | - |
| PK | 2.411G | 113.19 | Inf | -Inf | 81.76 | 3 | Horizontal | 79 | 1.20 | - | 27.82 | 3.61 | - |
| AV | 2.4112G | 109.79 | Inf | -Inf | 78.36 | 3 | Horizontal | 79 | 1.20 | - | 27.82 | 3.61 | - |

## 2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

## 2412MHz_TX

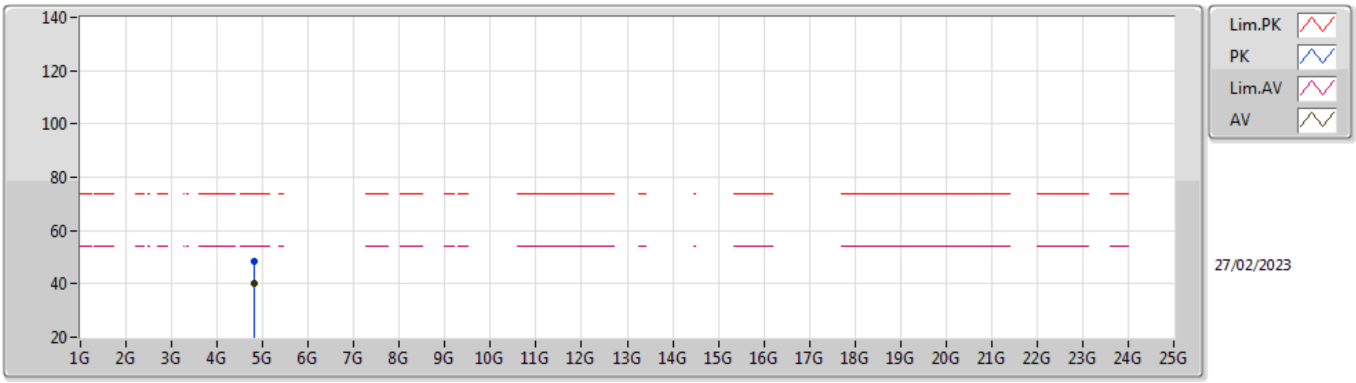



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.824G | 47.93 | 74.00 | -26.07 | 42.26 | 3 | Vertical | 104 | 1.80 | - | 32.84 | 5.72 | 32.89 |
| AV | 4.82388G | 38.50 | 54.00 | -15.50 | 32.83 | 3 | Vertical | 104 | 1.80 | - | 32.84 | 5.72 | 32.89 |

## 2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

## 2412MHz_TX

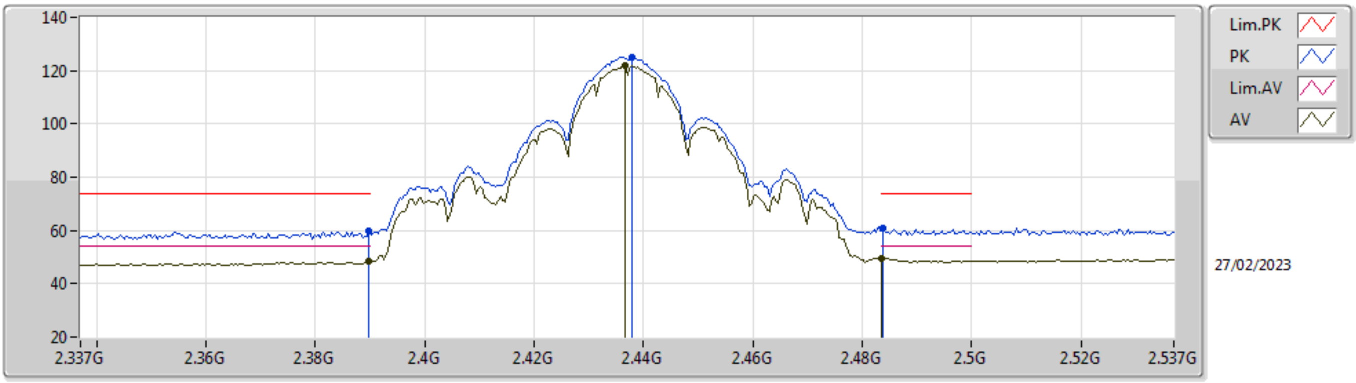



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.82388G | 48.43 | 74.00 | -25.57 | 42.76 | 3 | Horizontal | 194 | 1.79 | - | 32.84 | 5.72 | 32.89 |
| AV | 4.82406G | 40.38 | 54.00 | -13.62 | 34.71 | 3 | Horizontal | 194 | 1.79 | - | 32.84 | 5.72 | 32.89 |

## 2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

## 2437MHz_TX

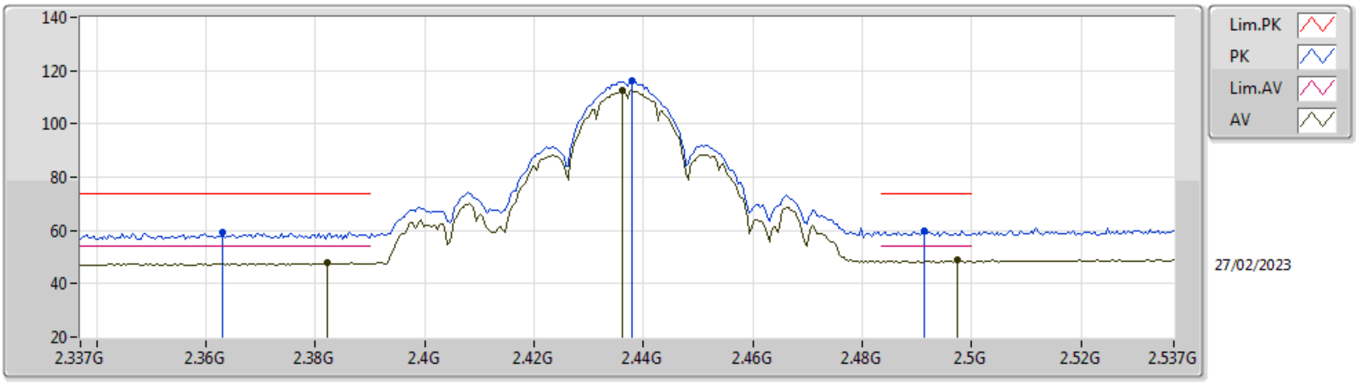



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.3898G | 59.59 | 74.00 | -14.41 | 28.22 | 3 | Vertical | 327 | 2.29 | - | 27.78 | 3.59 | - |
| AV | 2.3898G | 48.25 | 54.00 | -5.75 | 16.88 | 3 | Vertical | 327 | 2.29 | - | 27.78 | 3.59 | - |
| PK | 2.4378G | 125.08 | Inf | -Inf | 93.58 | 3 | Vertical | 327 | 2.29 | - | 27.88 | 3.62 | - |
| AV | 2.4366G | 121.69 | Inf | -Inf | 90.20 | 3 | Vertical | 327 | 2.29 | - | 27.87 | 3.62 | - |
| PK | 2.4838G | 60.83 | 74.00 | -13.17 | 29.09 | 3 | Vertical | 327 | 2.29 | - | 28.10 | 3.64 | - |
| AV | 2.4835G | 49.57 | 54.00 | -4.43 | 17.83 | 3 | Vertical | 327 | 2.29 | - | 28.10 | 3.64 | - |

## 2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

## 2437MHz_TX

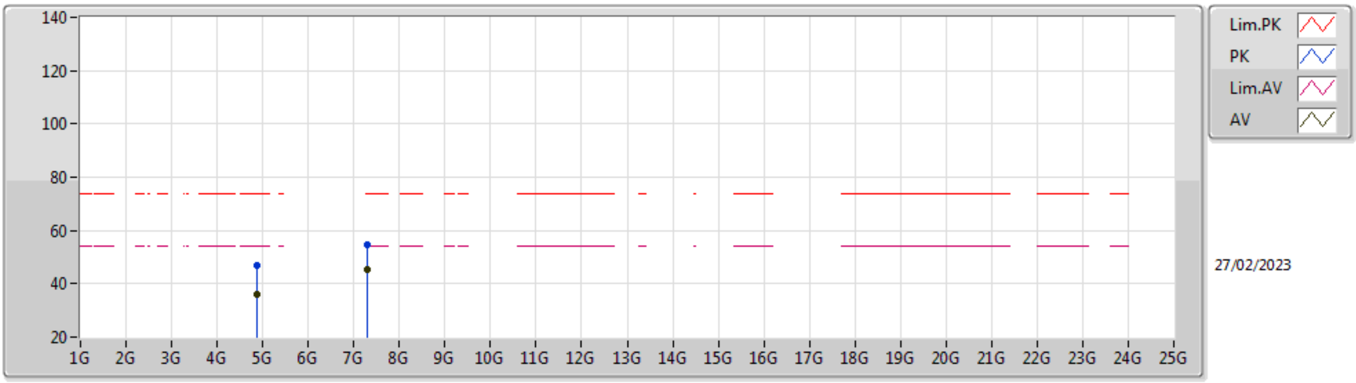



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.363G | 59.35 | 74.00 | -14.65 | 28.06 | 3 | Horizontal | 248 | 1.80 | - | 27.73 | 3.56 | - |
| AV | 2.3822G | 47.85 | 54.00 | -6.15 | 16.51 | 3 | Horizontal | 248 | 1.80 | - | 27.76 | 3.58 | - |
| PK | 2.4378G | 116.01 | Inf | -Inf | 84.51 | 3 | Horizontal | 248 | 1.80 | - | 27.88 | 3.62 | - |
| AV | 2.4362G | 112.46 | Inf | -Inf | 80.97 | 3 | Horizontal | 248 | 1.80 | - | 27.87 | 3.62 | - |
| PK | 2.4914G | 59.81 | 74.00 | -14.19 | 28.01 | 3 | Horizontal | 248 | 1.80 | - | 28.15 | 3.65 | - |
| AV | 2.4974G | 48.78 | 54.00 | -5.22 | 16.95 | 3 | Horizontal | 248 | 1.80 | - | 28.18 | 3.65 | - |

## 2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

## 2437MHz_TX

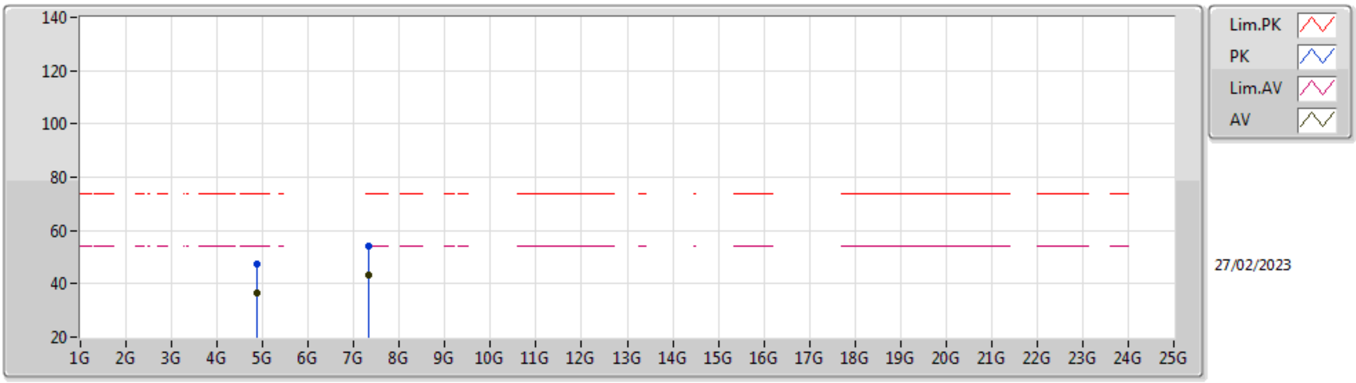



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.8626G | 46.88 | 74.00 | -27.12 | 41.00 | 3 | Vertical | 316 | 2.11 | - | 33.00 | 5.76 | 32.88 |
| AV | 4.87388G | 36.14 | 54.00 | -17.86 | 30.25 | 3 | Vertical | 316 | 2.11 | - | 33.00 | 5.77 | 32.88 |
| PK | 7.30926G | 54.74 | 74.00 | -19.26 | 43.17 | 3 | Vertical | 128 | 2.26 | - | 37.60 | 7.15 | 33.18 |
| AV | 7.30928G | 45.41 | 54.00 | -8.59 | 33.84 | 3 | Vertical | 128 | 2.26 | - | 37.60 | 7.15 | 33.18 |

## 2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

## 2437MHz_TX

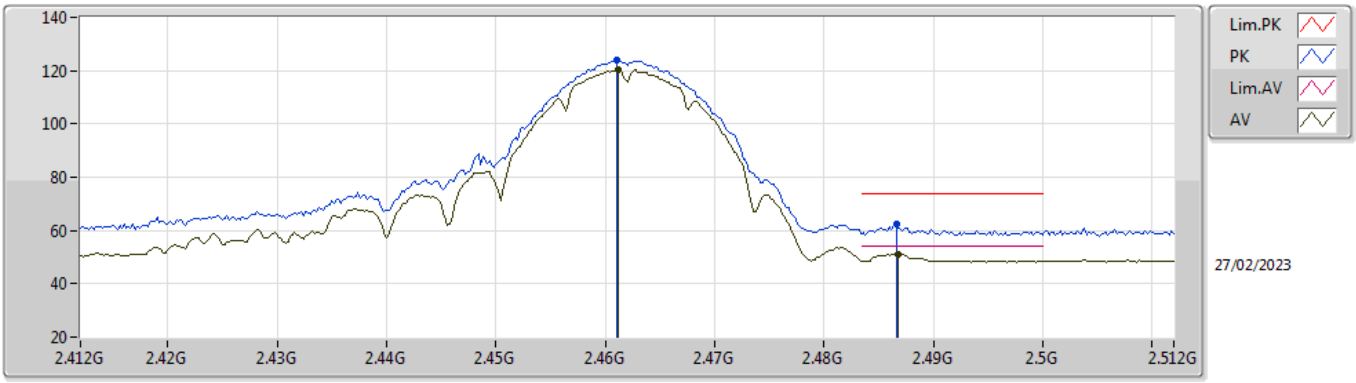



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.88636G | 47.29 | 74.00 | -26.71 | 41.37 | 3 | Horizontal | 137 | 1.80 | - | 33.00 | 5.79 | 32.87 |
| AV | 4.87394G | 36.41 | 54.00 | -17.59 | 30.52 | 3 | Horizontal | 137 | 1.80 | - | 33.00 | 5.77 | 32.88 |
| PK | 7.31226G | 54.01 | 74.00 | -19.99 | 42.43 | 3 | Horizontal | 325 | 2.18 | - | 37.60 | 7.16 | 33.18 |
| AV | 7.31022G | 43.13 | 54.00 | -10.87 | 31.55 | 3 | Horizontal | 325 | 2.18 | - | 37.60 | 7.16 | 33.18 |

## 2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

## 2462MHz_TX

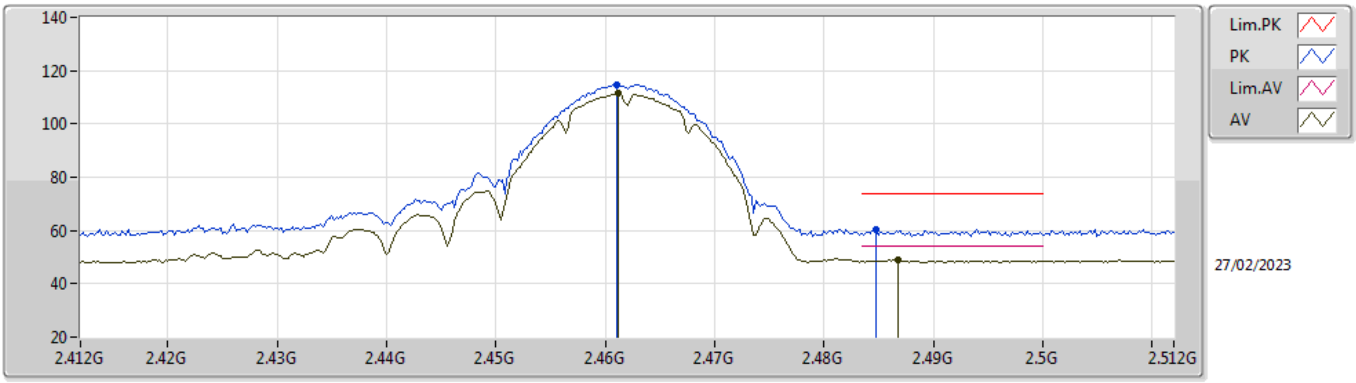



EUT X_2TX
Setting 27
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.461G | 123.79 | Inf | -Inf | 92.19 | 3 | Vertical | 307 | 1.80 | - | 27.97 | 3.63 | - |
| AV | 2.4612G | 120.44 | Inf | -Inf | 88.84 | 3 | Vertical | 307 | 1.80 | - | 27.97 | 3.63 | - |
| PK | 2.4866G | 62.16 | 74.00 | -11.84 | 30.40 | 3 | Vertical | 307 | 1.80 | - | 28.12 | 3.64 | - |
| AV | 2.4868G | 51.04 | 54.00 | -2.96 | 19.28 | 3 | Vertical | 307 | 1.80 | - | 28.12 | 3.64 | - |

## 2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

## 2462MHz_TX

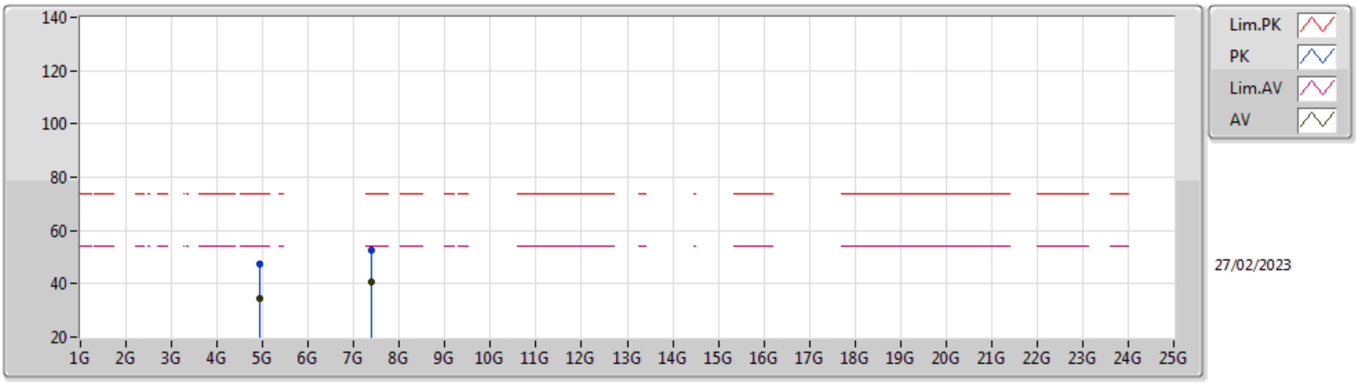



EUT X_2TX
Setting 27
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.461G | 114.85 | Inf | -Inf | 83.25 | 3 | Horizontal | 247 | 1.74 | - | 27.97 | 3.63 | - |
| AV | 2.4612G | 111.45 | Inf | -Inf | 79.85 | 3 | Horizontal | 247 | 1.74 | - | 27.97 | 3.63 | - |
| PK | 2.4848G | 60.37 | 74.00 | -13.63 | 28.62 | 3 | Horizontal | 247 | 1.74 | - | 28.11 | 3.64 | - |
| AV | 2.4868G | 48.77 | 54.00 | -5.23 | 17.01 | 3 | Horizontal | 247 | 1.74 | - | 28.12 | 3.64 | - |

## 2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

## 2462MHz_TX

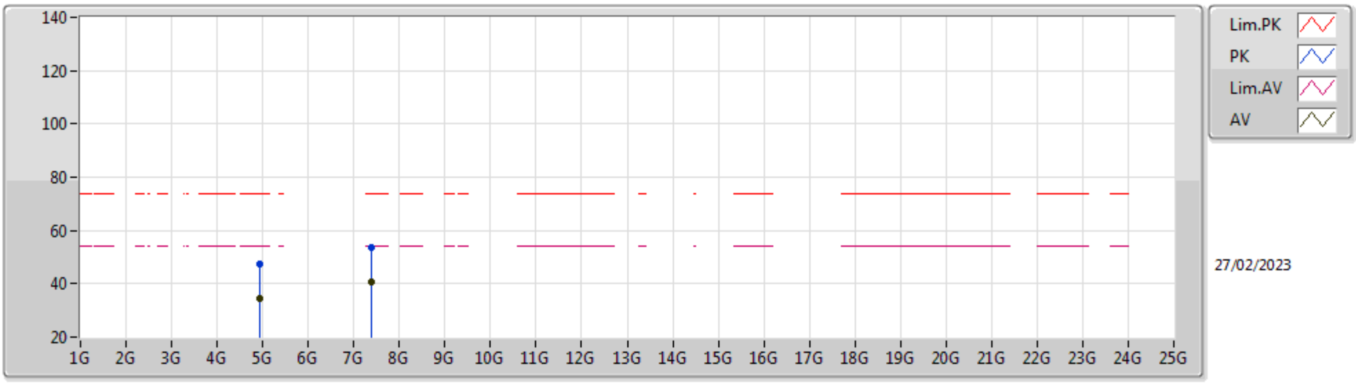



EUT X_2TX
Setting 27
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.92822G | 47.37 | 74.00 | -26.63 | 41.40 | 3 | Vertical | 230 | 2.25 | - | 33.00 | 5.83 | 32.86 |
| AV | 4.92142G | 34.40 | 54.00 | -19.60 | 28.45 | 3 | Vertical | 230 | 2.25 | - | 33.00 | 5.82 | 32.87 |
| PK | 7.3872G | 52.63 | 74.00 | -21.37 | 41.13 | 3 | Vertical | 58 | 2.78 | - | 37.53 | 7.19 | 33.22 |
| AV | 7.38606G | 40.52 | 54.00 | -13.48 | 29.02 | 3 | Vertical | 58 | 2.78 | - | 37.53 | 7.19 | 33.22 |

## 2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

## 2462MHz_TX

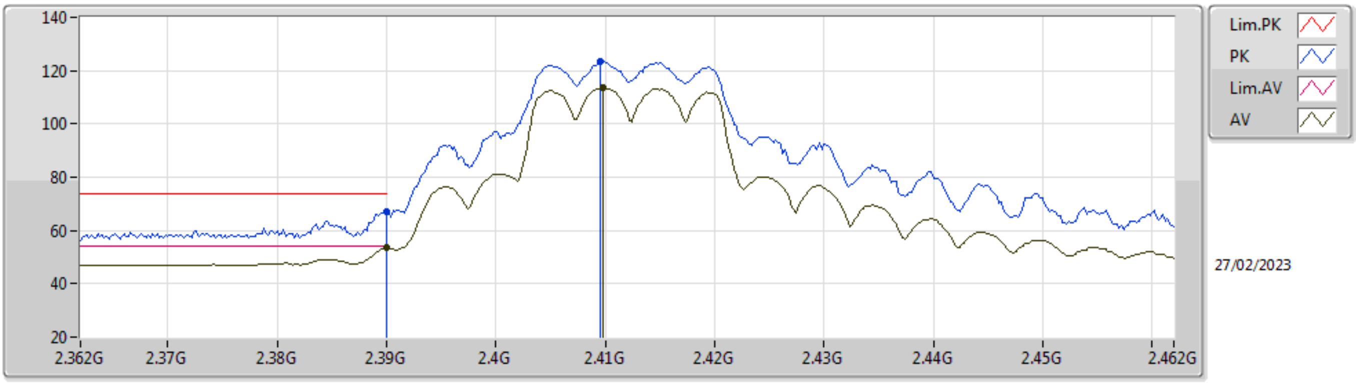



EUT X_2TX
Setting 27
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.92654G | 47.47 | 74.00 | -26.53 | 41.50 | 3 | Horizontal | 218 | 1.85 | - | 33.00 | 5.83 | 32.86 |
| AV | 4.92824G | 34.34 | 54.00 | -19.66 | 28.37 | 3 | Horizontal | 218 | 1.85 | - | 33.00 | 5.83 | 32.86 |
| PK | 7.38372G | 53.71 | 74.00 | -20.29 | 42.21 | 3 | Horizontal | 297 | 1.17 | - | 37.53 | 7.19 | 33.22 |
| AV | 7.38936G | 40.46 | 54.00 | -13.54 | 28.97 | 3 | Horizontal | 297 | 1.17 | - | 37.52 | 7.19 | 33.22 |

## 2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

## 2412MHz_TX

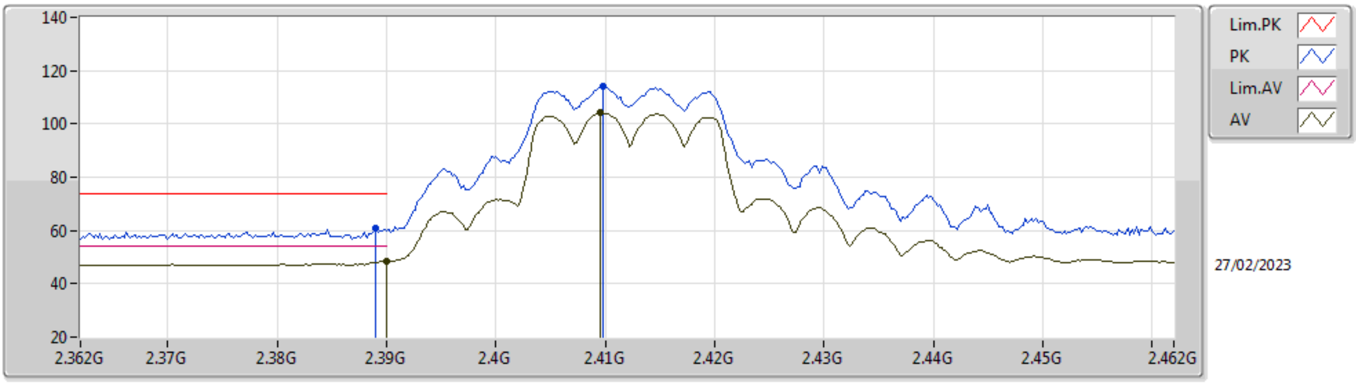



EUT X_2TX
Setting 24
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.39G | 67.15 | 74.00 | -6.85 | 35.78 | 3 | Vertical | 341 | 2.40 | - | 27.78 | 3.59 | - |
| AV | 2.39G | 53.53 | 54.00 | -0.47 | 22.16 | 3 | Vertical | 341 | 2.40 | - | 27.78 | 3.59 | - |
| PK | 2.4096G | 123.39 | Inf | -Inf | 91.97 | 3 | Vertical | 341 | 2.40 | - | 27.82 | 3.60 | - |
| AV | 2.4098G | 113.55 | Inf | -Inf | 82.13 | 3 | Vertical | 341 | 2.40 | - | 27.82 | 3.60 | - |

# 2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

## 2412MHz_TX

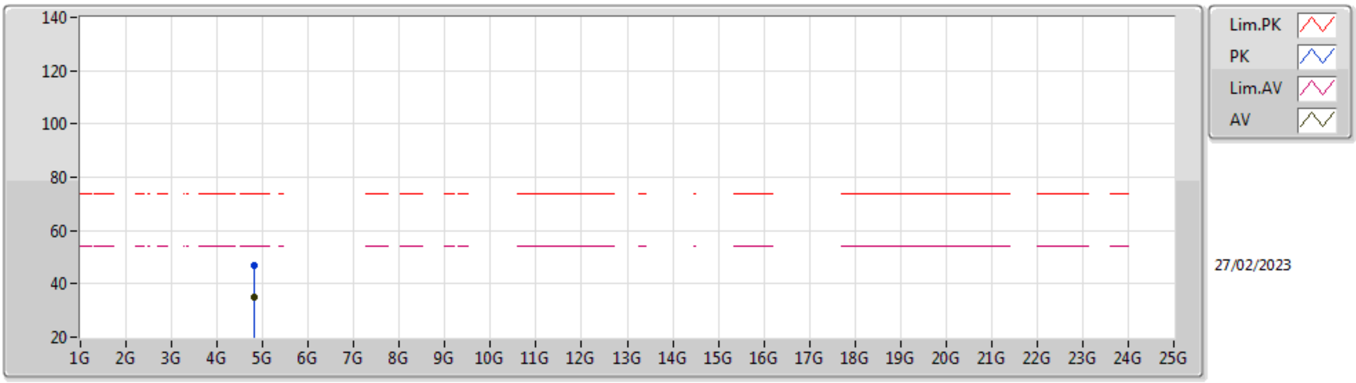



EUT X_2TX
Setting 24
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.389G | 60.81 | 74.00 | -13.19 | 29.44 | 3 | Horizontal | 247 | 1.87 | - | 27.78 | 3.59 | - |
| AV | 2.39G | 48.61 | 54.00 | -5.39 | 17.24 | 3 | Horizontal | 247 | 1.87 | - | 27.78 | 3.59 | - |
| PK | 2.4098G | 113.92 | Inf | -Inf | 82.50 | 3 | Horizontal | 247 | 1.87 | - | 27.82 | 3.60 | - |
| AV | 2.4096G | 104.08 | Inf | -Inf | 72.66 | 3 | Horizontal | 247 | 1.87 | - | 27.82 | 3.60 | - |

# 2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

## 2412MHz_TX

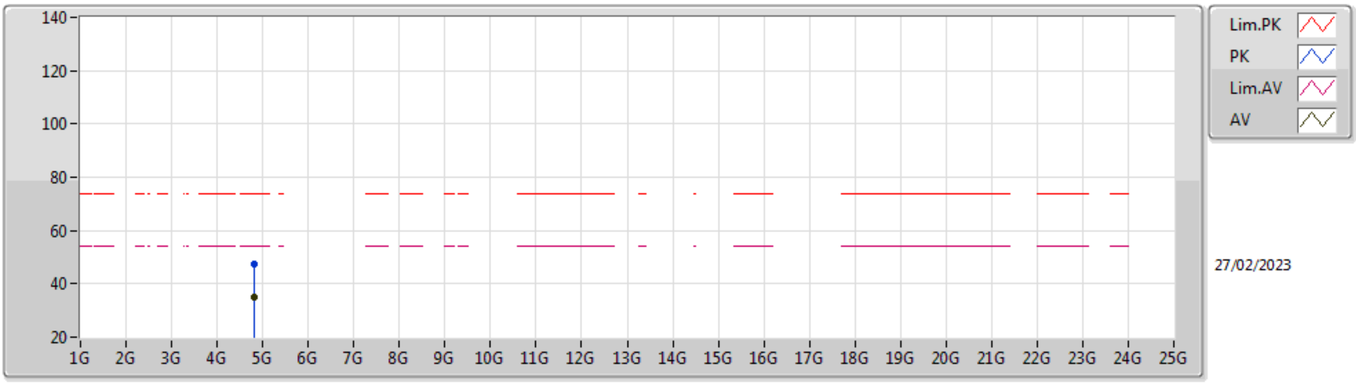



EUT X_2TX
Setting 24
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.82758G | 46.78 | 74.00 | -27.22 | 41.06 | 3 | Vertical | 207 | 1.94 | - | 32.87 | 5.73 | 32.88 |
| AV | 4.82398G | 34.88 | 54.00 | -19.12 | 29.21 | 3 | Vertical | 207 | 1.94 | - | 32.84 | 5.72 | 32.89 |

# 2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

## 2412MHz_TX

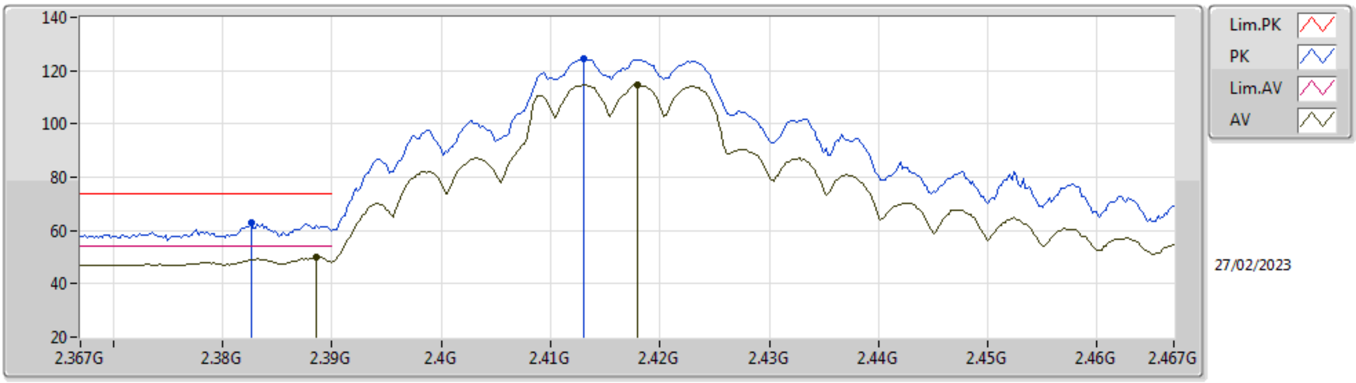



EUT X_2TX
Setting 24
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.82612G | 47.64 | 74.00 | -26.36 | 41.93 | 3 | Horizontal | 143 | 1.33 | - | 32.86 | 5.73 | 32.88 |
| AV | 4.82402G | 34.85 | 54.00 | -19.15 | 29.18 | 3 | Horizontal | 143 | 1.33 | - | 32.84 | 5.72 | 32.89 |

## 2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

## 2417MHz_TX

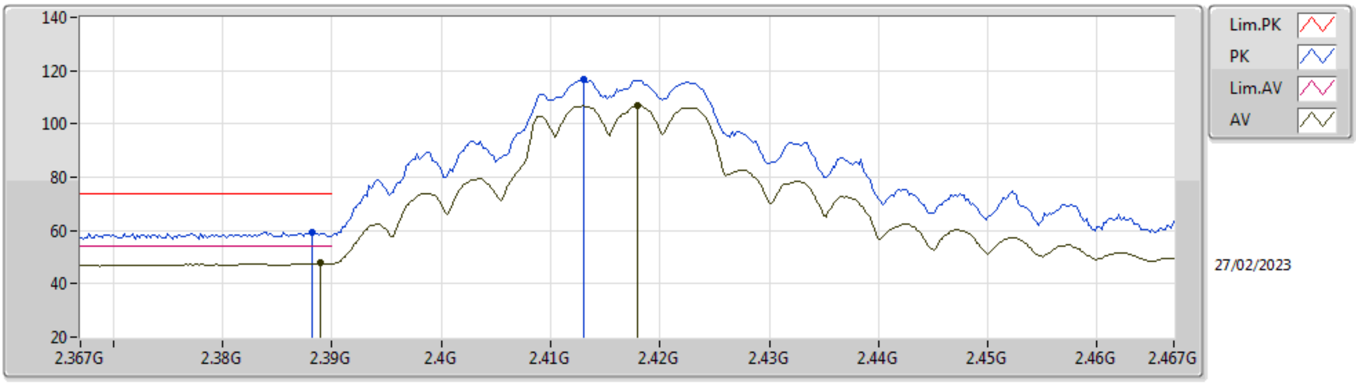



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.3826G | 62.82 | 74.00 | -11.18 | 31.47 | 3 | Vertical | 332 | 1.80 | - | 27.77 | 3.58 | - |
| AV | 2.3886G | 49.95 | 54.00 | -4.05 | 18.58 | 3 | Vertical | 332 | 1.80 | - | 27.78 | 3.59 | - |
| PK | 2.413G | 124.49 | Inf | -Inf | 93.05 | 3 | Vertical | 332 | 1.80 | - | 27.83 | 3.61 | - |
| AV | 2.418G | 114.82 | Inf | -Inf | 83.37 | 3 | Vertical | 332 | 1.80 | - | 27.84 | 3.61 | - |

# 2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

## 2417MHz_TX

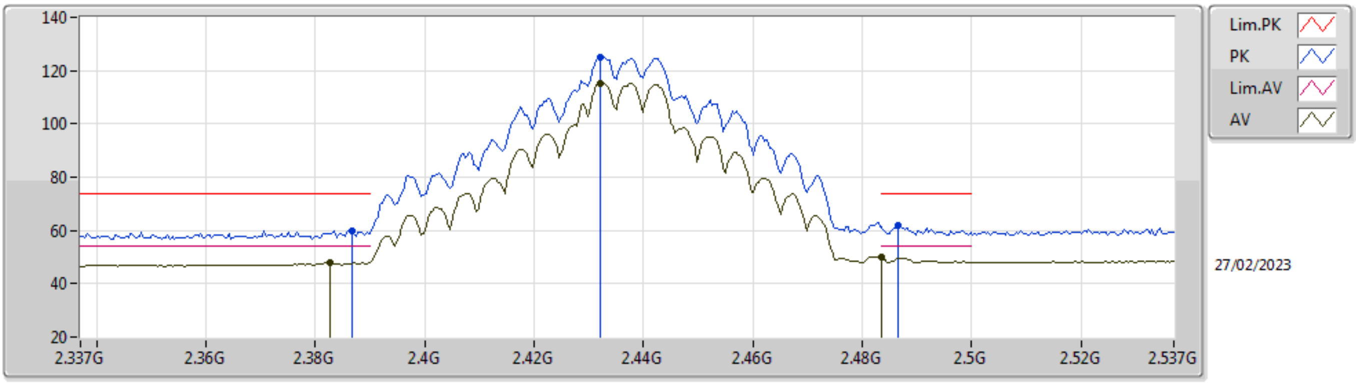



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.3882G | 59.49 | 74.00 | -14.51 | 28.12 | 3 | Horizontal | 207 | 1.00 | - | 27.78 | 3.59 | - |
| AV | 2.389G | 47.68 | 54.00 | -6.32 | 16.31 | 3 | Horizontal | 207 | 1.00 | - | 27.78 | 3.59 | - |
| PK | 2.413G | 116.83 | Inf | -Inf | 85.39 | 3 | Horizontal | 207 | 1.00 | - | 27.83 | 3.61 | - |
| AV | 2.418G | 107.02 | Inf | -Inf | 75.57 | 3 | Horizontal | 207 | 1.00 | - | 27.84 | 3.61 | - |

## 2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

## 2437MHz_TX

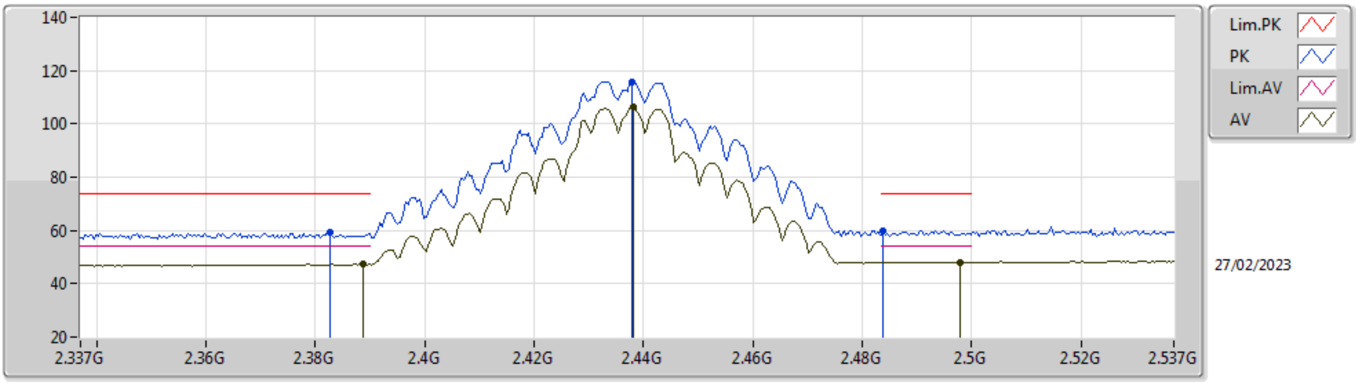



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.3866G | 59.92 | 74.00 | -14.08 | 28.56 | 3 | Vertical | 321 | 2.05 | - | 27.77 | 3.59 | - |
| AV | 2.3826G | 47.91 | 54.00 | -6.09 | 16.56 | 3 | Vertical | 321 | 2.05 | - | 27.77 | 3.58 | - |
| PK | 2.4322G | 125.08 | Inf | -Inf | 93.60 | 3 | Vertical | 321 | 2.05 | - | 27.86 | 3.62 | - |
| AV | 2.4322G | 115.41 | Inf | -Inf | 83.93 | 3 | Vertical | 321 | 2.05 | - | 27.86 | 3.62 | - |
| PK | 2.4866G | 62.00 | 74.00 | -12.00 | 30.24 | 3 | Vertical | 321 | 2.05 | - | 28.12 | 3.64 | - |
| AV | 2.4835G | 49.81 | 54.00 | -4.19 | 18.07 | 3 | Vertical | 321 | 2.05 | - | 28.10 | 3.64 | - |

## 2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

## 2437MHz_TX

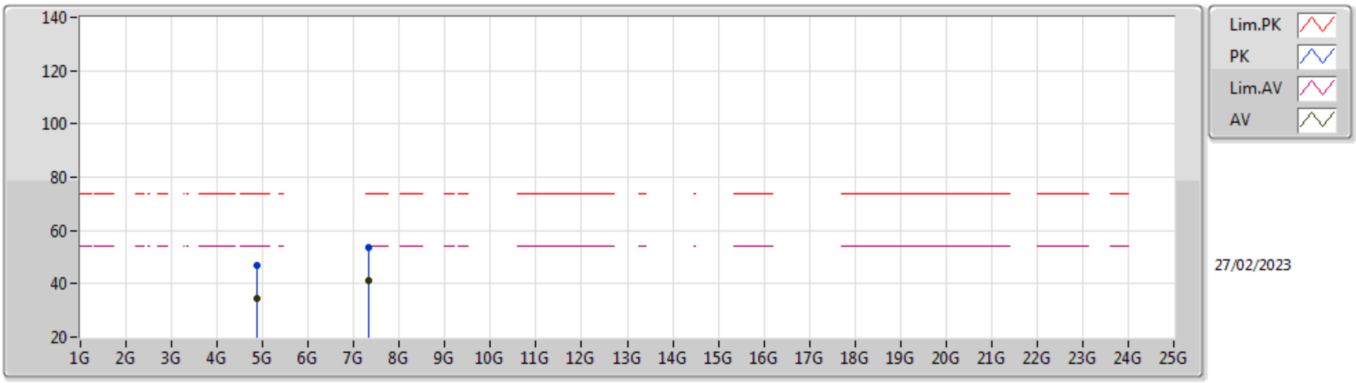



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.3826G | 59.16 | 74.00 | -14.84 | 27.81 | 3 | Horizontal | 246 | 1.36 | - | 27.77 | 3.58 | - |
| AV | 2.3886G | 47.33 | 54.00 | -6.67 | 15.96 | 3 | Horizontal | 246 | 1.36 | - | 27.78 | 3.59 | - |
| PK | 2.4378G | 115.61 | Inf | -Inf | 84.11 | 3 | Horizontal | 246 | 1.36 | - | 27.88 | 3.62 | - |
| AV | 2.4382G | 106.17 | Inf | -Inf | 74.67 | 3 | Horizontal | 246 | 1.36 | - | 27.88 | 3.62 | - |
| PK | 2.4838G | 59.76 | 74.00 | -14.24 | 28.02 | 3 | Horizontal | 246 | 1.36 | - | 28.10 | 3.64 | - |
| AV | 2.4978G | 48.14 | 54.00 | -5.86 | 16.30 | 3 | Horizontal | 246 | 1.36 | - | 28.19 | 3.65 | - |

## 2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

## 2437MHz_TX

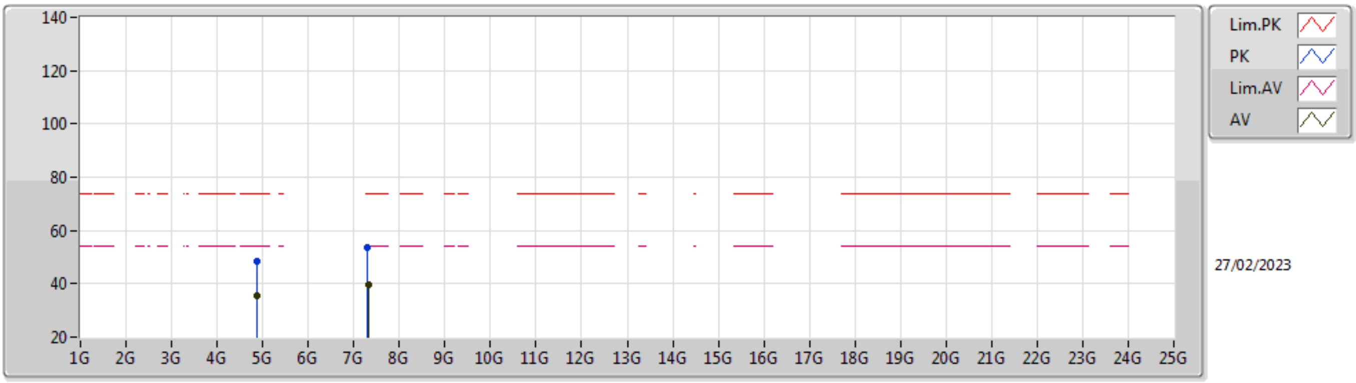



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.8644G | 47.09 | 74.00 | -26.91 | 41.21 | 3 | Vertical | 61 | 1.80 | - | 33.00 | 5.76 | 32.88 |
| AV | 4.8728G | 34.26 | 54.00 | -19.74 | 28.37 | 3 | Vertical | 61 | 1.80 | - | 33.00 | 5.77 | 32.88 |
| PK | 7.31748G | 53.53 | 74.00 | -20.47 | 41.96 | 3 | Vertical | 126 | 2.40 | - | 37.60 | 7.16 | 33.19 |
| AV | 7.31256G | 40.98 | 54.00 | -13.02 | 29.40 | 3 | Vertical | 126 | 2.40 | - | 37.60 | 7.16 | 33.18 |

## 2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

## 2437MHz_TX

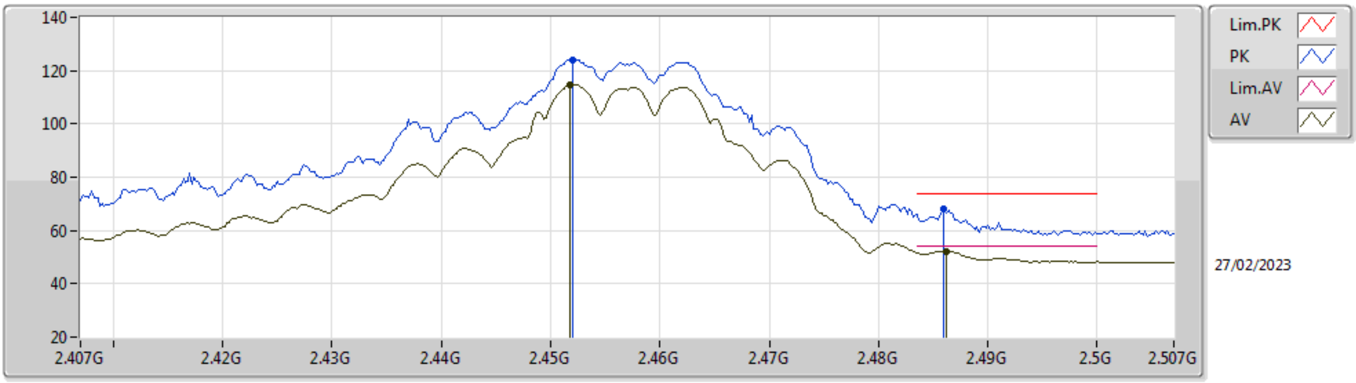



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.86638G | 48.61 | 74.00 | -25.39 | 42.72 | 3 | Horizontal | 146 | 1.37 | - | 33.00 | 5.77 | 32.88 |
| AV | 4.874G | 35.29 | 54.00 | -18.71 | 29.40 | 3 | Horizontal | 146 | 1.37 | - | 33.00 | 5.77 | 32.88 |
| PK | 7.30788G | 53.43 | 74.00 | -20.57 | 41.86 | 3 | Horizontal | 304 | 2.52 | - | 37.60 | 7.15 | 33.18 |
| AV | 7.31328G | 39.83 | 54.00 | -14.17 | 28.25 | 3 | Horizontal | 304 | 2.52 | - | 37.60 | 7.16 | 33.18 |

## 2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

## 2457MHz_TX

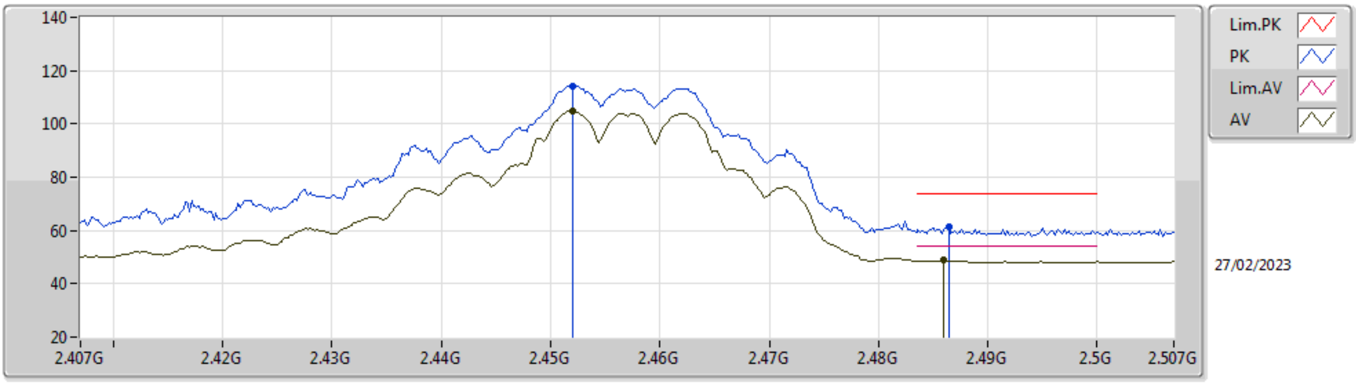



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.452G | 124.11 | Inf | -Inf | 92.57 | 3 | Vertical | 326 | 2.30 | - | 27.91 | 3.63 | - |
| AV | 2.4518G | 114.69 | Inf | -Inf | 83.15 | 3 | Vertical | 326 | 2.30 | - | 27.91 | 3.63 | - |
| PK | 2.486G | 68.06 | 74.00 | -5.94 | 36.30 | 3 | Vertical | 326 | 2.30 | - | 28.12 | 3.64 | - |
| AV | 2.4862G | 52.19 | 54.00 | -1.81 | 20.43 | 3 | Vertical | 326 | 2.30 | - | 28.12 | 3.64 | - |

# 2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

## 2457MHz_TX

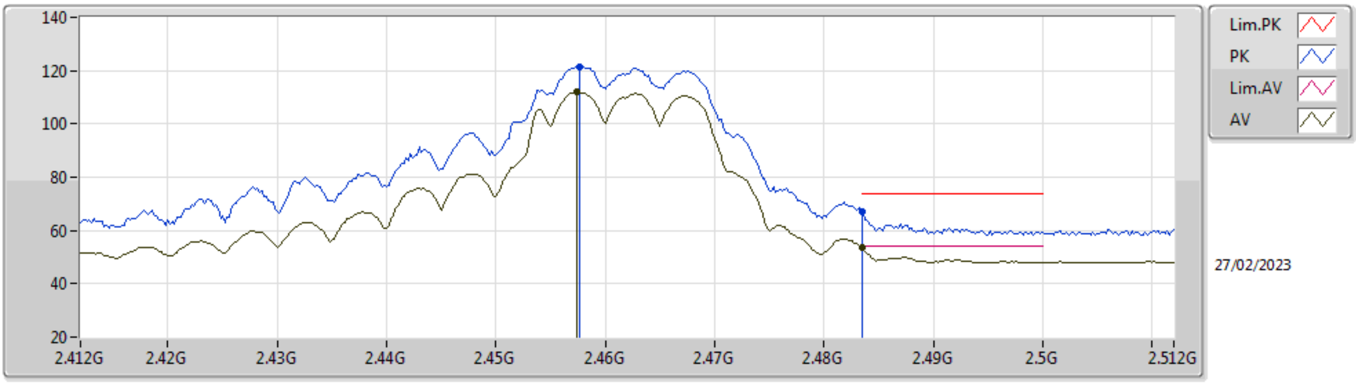



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.452G | 114.31 | Inf | -Inf | 82.77 | 3 | Horizontal | 248 | 1.74 | - | 27.91 | 3.63 | - |
| AV | 2.452G | 104.85 | Inf | -Inf | 73.31 | 3 | Horizontal | 248 | 1.74 | - | 27.91 | 3.63 | - |
| PK | 2.4864G | 61.54 | 74.00 | -12.46 | 29.78 | 3 | Horizontal | 248 | 1.74 | - | 28.12 | 3.64 | - |
| AV | 2.486G | 48.85 | 54.00 | -5.15 | 17.09 | 3 | Horizontal | 248 | 1.74 | - | 28.12 | 3.64 | - |

## 2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

## 2462MHz_TX

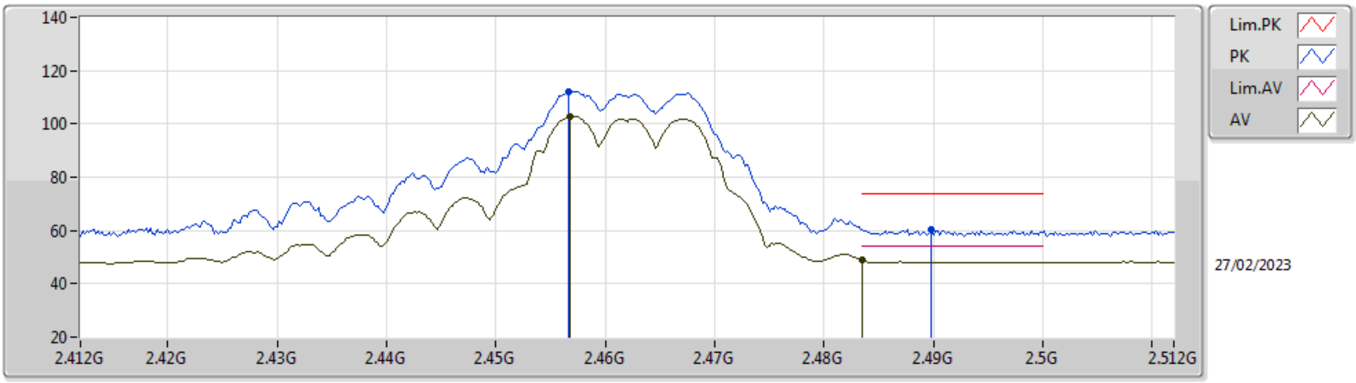



EUT X_2TX
Setting 24.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.4576G | 121.30 | Inf | -Inf | 89.72 | 3 | Vertical | 314 | 1.80 | - | 27.95 | 3.63 | - |
| AV | 2.4574G | 111.98 | Inf | -Inf | 80.41 | 3 | Vertical | 314 | 1.80 | - | 27.94 | 3.63 | - |
| PK | 2.4835G | 67.08 | 74.00 | -6.92 | 35.34 | 3 | Vertical | 314 | 1.80 | - | 28.10 | 3.64 | - |
| AV | 2.4835G | 53.75 | 54.00 | -0.25 | 22.01 | 3 | Vertical | 314 | 1.80 | - | 28.10 | 3.64 | - |

## 2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

## 2462MHz_TX

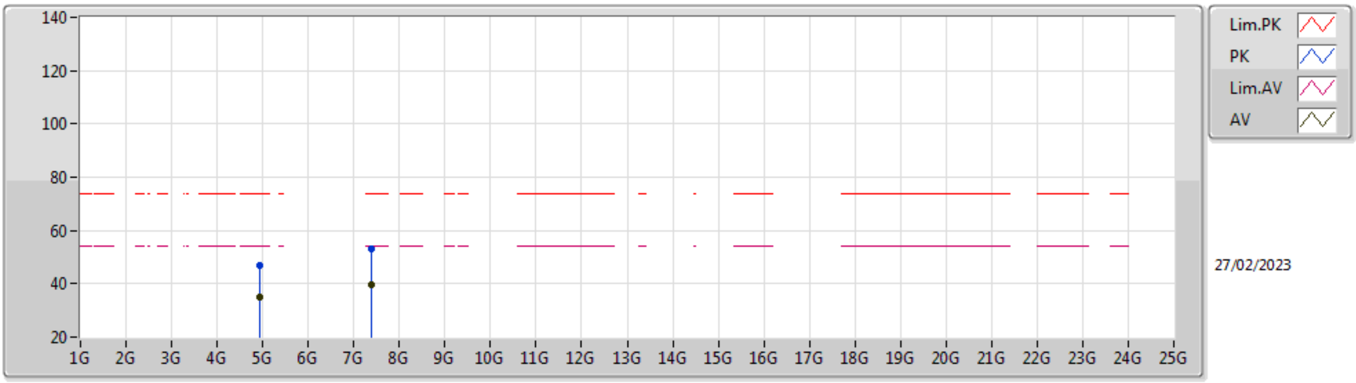



EUT X_2TX
Setting 24.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.4566G | 112.15 | Inf | -Inf | 80.58 | 3 | Horizontal | 247 | 1.76 | - | 27.94 | 3.63 | - |
| AV | 2.4568G | 102.94 | Inf | -Inf | 71.37 | 3 | Horizontal | 247 | 1.76 | - | 27.94 | 3.63 | - |
| PK | 2.4898G | 60.58 | 74.00 | -13.42 | 28.80 | 3 | Horizontal | 247 | 1.76 | - | 28.14 | 3.64 | - |
| AV | 2.4835G | 49.01 | 54.00 | -4.99 | 17.27 | 3 | Horizontal | 247 | 1.76 | - | 28.10 | 3.64 | - |

## 2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

## 2462MHz_TX

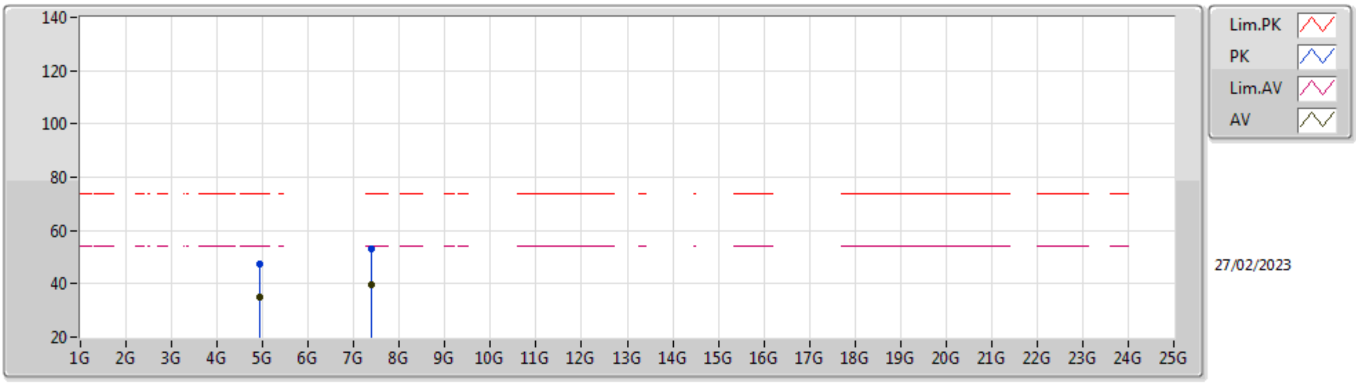



EUT X_2TX
Setting 24.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.91938G | 47.01 | 74.00 | -26.99 | 41.06 | 3 | Vertical | 32 | 2.92 | - | 33.00 | 5.82 | 32.87 |
| AV | 4.92402G | 34.82 | 54.00 | -19.18 | 28.87 | 3 | Vertical | 32 | 2.92 | - | 33.00 | 5.82 | 32.87 |
| PK | 7.3832G | 53.01 | 74.00 | -20.99 | 41.51 | 3 | Vertical | 277 | 2.32 | - | 37.53 | 7.19 | 33.22 |
| AV | 7.38374G | 39.87 | 54.00 | -14.13 | 28.37 | 3 | Vertical | 277 | 2.32 | - | 37.53 | 7.19 | 33.22 |

## 2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

## 2462MHz_TX

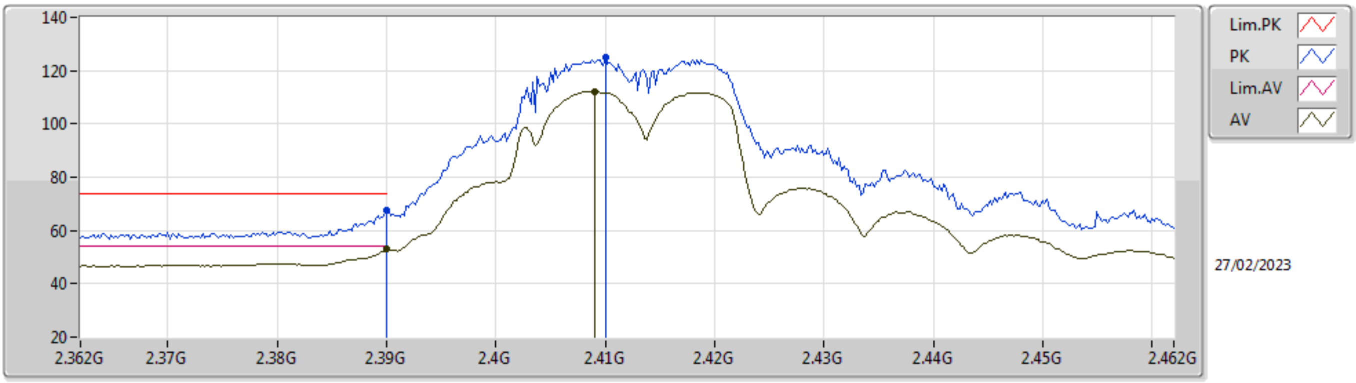



EUT X_2TX
Setting 24.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.92788G | 47.32 | 74.00 | -26.68 | 41.35 | 3 | Horizontal | 223 | 1.31 | - | 33.00 | 5.83 | 32.86 |
| AV | 4.924G | 34.92 | 54.00 | -19.08 | 28.97 | 3 | Horizontal | 223 | 1.31 | - | 33.00 | 5.82 | 32.87 |
| PK | 7.38988G | 52.92 | 74.00 | -21.08 | 41.43 | 3 | Horizontal | 251 | 1.78 | - | 37.52 | 7.19 | 33.22 |
| AV | 7.38418G | 39.64 | 54.00 | -14.36 | 28.14 | 3 | Horizontal | 251 | 1.78 | - | 37.53 | 7.19 | 33.22 |

## 2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

## 2412MHz_TX

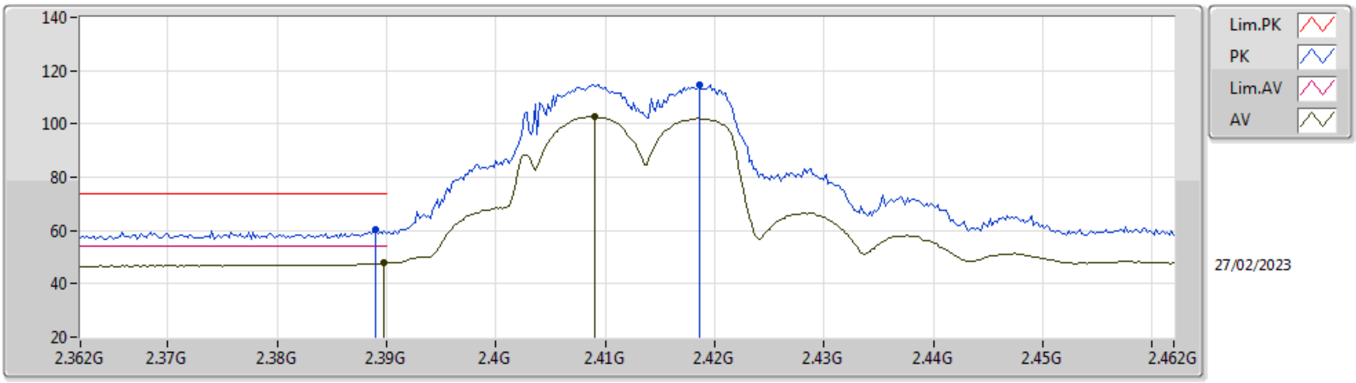



EUT X_2TX
Setting 23.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.39G | 67.49 | 74.00 | -6.51 | 36.12 | 3 | Vertical | 330 | 1.80 | - | 27.78 | 3.59 | - |
| AV | 2.39G | 52.89 | 54.00 | -1.11 | 21.52 | 3 | Vertical | 330 | 1.80 | - | 27.78 | 3.59 | - |
| PK | 2.41G | 124.77 | Inf | -Inf | 93.35 | 3 | Vertical | 330 | 1.80 | - | 27.82 | 3.60 | - |
| AV | 2.409G | 112.27 | Inf | -Inf | 80.85 | 3 | Vertical | 330 | 1.80 | - | 27.82 | 3.60 | - |

## 2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

## 2412MHz_TX

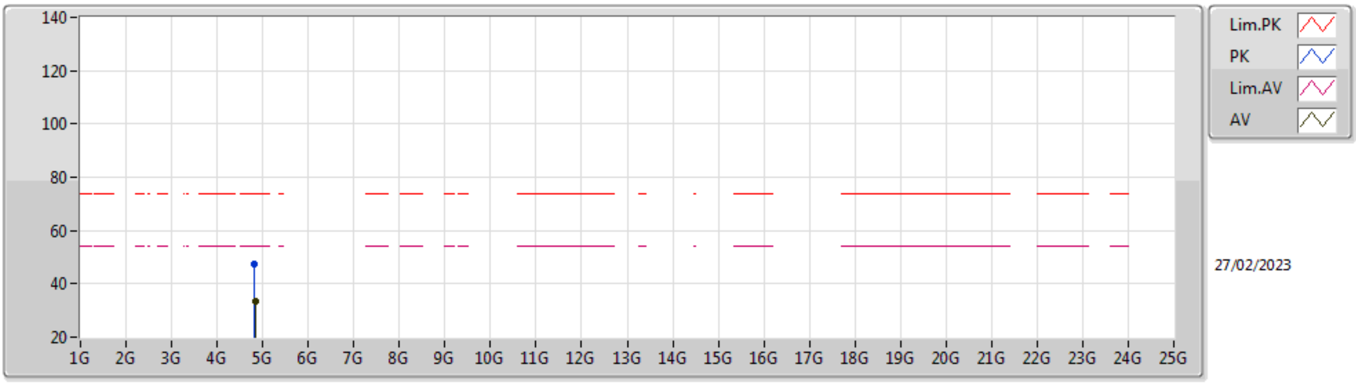



EUT X_2TX
Setting 23.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.389G | 60.21 | 74.00 | -13.79 | 28.84 | 3 | Horizontal | 246 | 1.36 | - | 27.78 | 3.59 | - |
| AV | 2.3898G | 47.81 | 54.00 | -6.19 | 16.44 | 3 | Horizontal | 246 | 1.36 | - | 27.78 | 3.59 | - |
| PK | 2.4186G | 114.88 | Inf | -Inf | 83.43 | 3 | Horizontal | 246 | 1.36 | - | 27.84 | 3.61 | - |
| AV | 2.409G | 102.80 | Inf | -Inf | 71.38 | 3 | Horizontal | 246 | 1.36 | - | 27.82 | 3.60 | - |

## 2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

## 2412MHz_TX

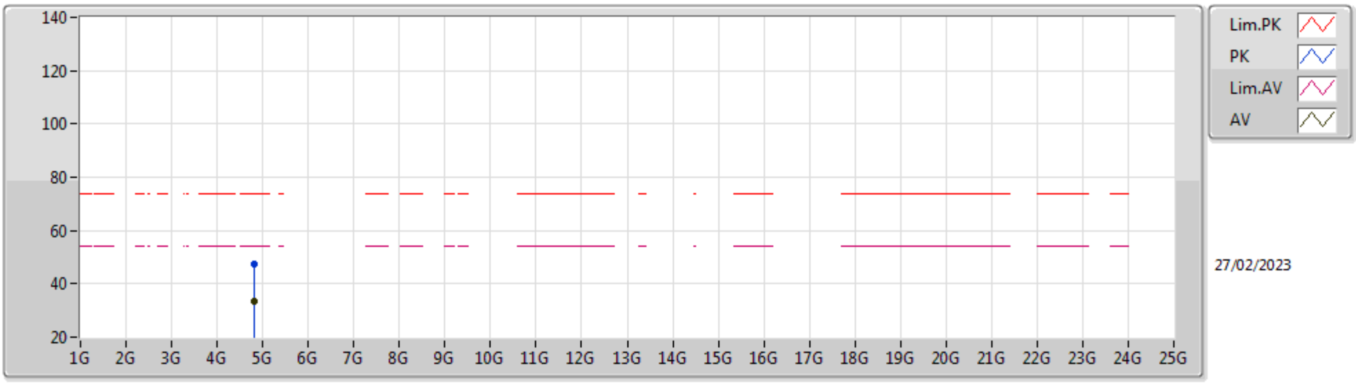



EUT X_2TX
Setting 23.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.8236G | 47.38 | 74.00 | -26.62 | 41.71 | 3 | Vertical | 274 | 2.00 | - | 32.84 | 5.72 | 32.89 |
| AV | 4.82878G | 33.44 | 54.00 | -20.56 | 27.72 | 3 | Vertical | 274 | 2.00 | - | 32.87 | 5.73 | 32.88 |

## 2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

## 2412MHz_TX

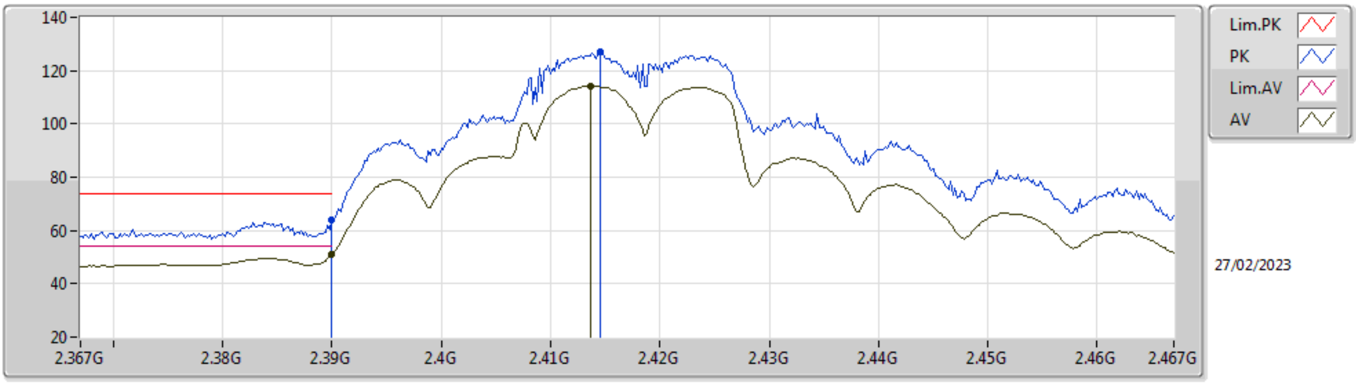



EUT X_2TX
Setting 23.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.8272G | 47.49 | 74.00 | -26.51 | 41.78 | 3 | Horizontal | 330 | 2.74 | - | 32.86 | 5.73 | 32.88 |
| AV | 4.8277G | 33.31 | 54.00 | -20.69 | 27.59 | 3 | Horizontal | 330 | 2.74 | - | 32.87 | 5.73 | 32.88 |

## 2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

## 2417MHz_TX

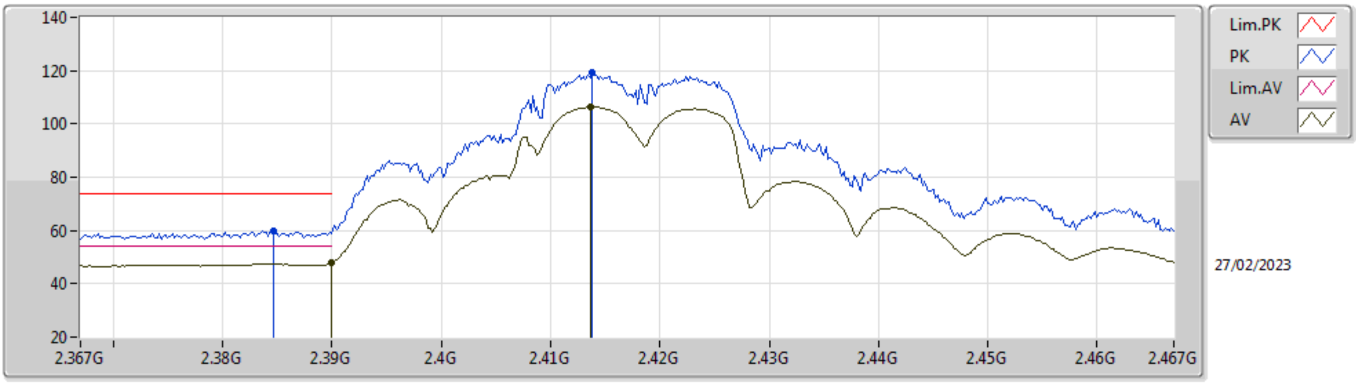



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.39G | 64.06 | 74.00 | -9.94 | 32.69 | 3 | Vertical | 328 | 1.80 | - | 27.78 | 3.59 | - |
| AV | 2.39G | 51.06 | 54.00 | -2.94 | 19.69 | 3 | Vertical | 328 | 1.80 | - | 27.78 | 3.59 | - |
| PK | 2.4146G | 126.92 | Inf | -Inf | 95.48 | 3 | Vertical | 328 | 1.80 | - | 27.83 | 3.61 | - |
| AV | 2.4136G | 114.21 | Inf | -Inf | 82.77 | 3 | Vertical | 328 | 1.80 | - | 27.83 | 3.61 | - |

## 2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

## 2417MHz_TX

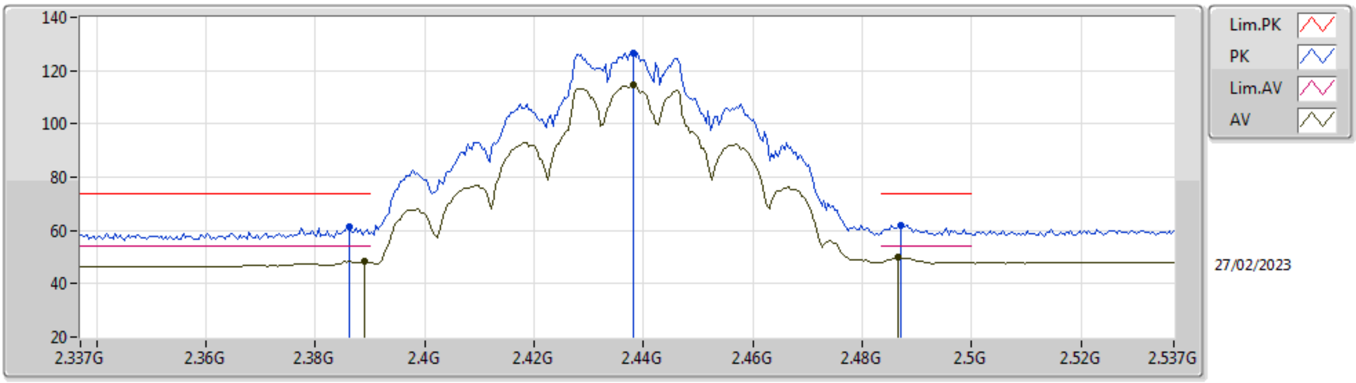



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.3846G | 59.97 | 74.00 | -14.03 | 28.62 | 3 | Horizontal | 208 | 1.01 | - | 27.77 | 3.58 | - |
| AV | 2.39G | 48.10 | 54.00 | -5.90 | 16.73 | 3 | Horizontal | 208 | 1.01 | - | 27.78 | 3.59 | - |
| PK | 2.4138G | 119.50 | Inf | -Inf | 88.06 | 3 | Horizontal | 208 | 1.01 | - | 27.83 | 3.61 | - |
| AV | 2.4136G | 106.38 | Inf | -Inf | 74.94 | 3 | Horizontal | 208 | 1.01 | - | 27.83 | 3.61 | - |

## 2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

## 2437MHz_TX

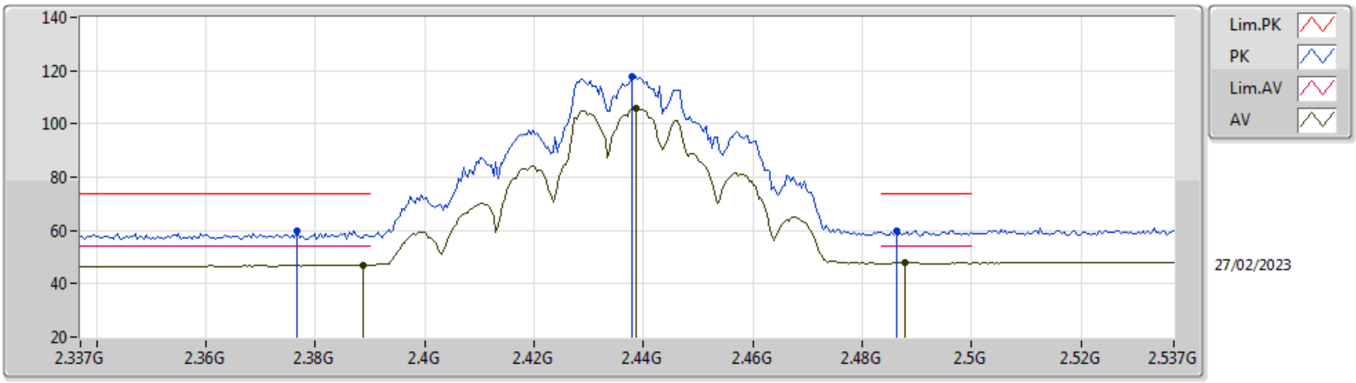



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.3862G | 61.15 | 74.00 | -12.85 | 29.79 | 3 | Vertical | 335 | 2.28 | - | 27.77 | 3.59 | - |
| AV | 2.389G | 48.35 | 54.00 | -5.65 | 16.98 | 3 | Vertical | 335 | 2.28 | - | 27.78 | 3.59 | - |
| PK | 2.4382G | 126.79 | Inf | -Inf | 95.29 | 3 | Vertical | 335 | 2.28 | - | 27.88 | 3.62 | - |
| AV | 2.4382G | 114.56 | Inf | -Inf | 83.06 | 3 | Vertical | 335 | 2.28 | - | 27.88 | 3.62 | - |
| PK | 2.487G | 61.93 | 74.00 | -12.07 | 30.17 | 3 | Vertical | 335 | 2.28 | - | 28.12 | 3.64 | - |
| AV | 2.4866G | 49.80 | 54.00 | -4.20 | 18.04 | 3 | Vertical | 335 | 2.28 | - | 28.12 | 3.64 | - |

## 2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

## 2437MHz_TX

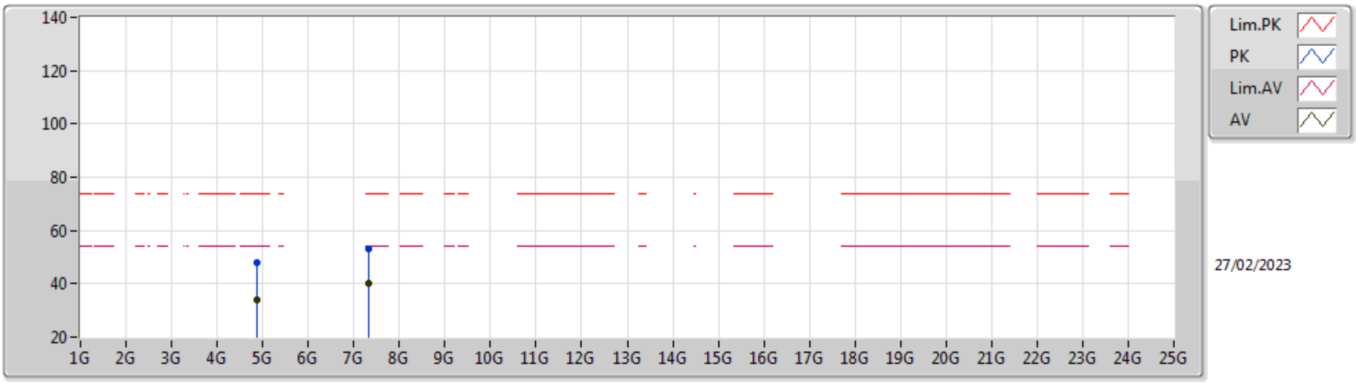



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.3766G | 59.72 | 74.00 | -14.28 | 28.39 | 3 | Horizontal | 247 | 1.31 | - | 27.75 | 3.58 | - |
| AV | 2.3886G | 47.12 | 54.00 | -6.88 | 15.75 | 3 | Horizontal | 247 | 1.31 | - | 27.78 | 3.59 | - |
| PK | 2.4378G | 117.84 | Inf | -Inf | 86.34 | 3 | Horizontal | 247 | 1.31 | - | 27.88 | 3.62 | - |
| AV | 2.4386G | 105.75 | Inf | -Inf | 74.25 | 3 | Horizontal | 247 | 1.31 | - | 27.88 | 3.62 | - |
| PK | 2.4862G | 59.98 | 74.00 | -14.02 | 28.22 | 3 | Horizontal | 247 | 1.31 | - | 28.12 | 3.64 | - |
| AV | 2.4878G | 47.84 | 54.00 | -6.16 | 16.07 | 3 | Horizontal | 247 | 1.31 | - | 28.13 | 3.64 | - |

## 2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

## 2437MHz_TX

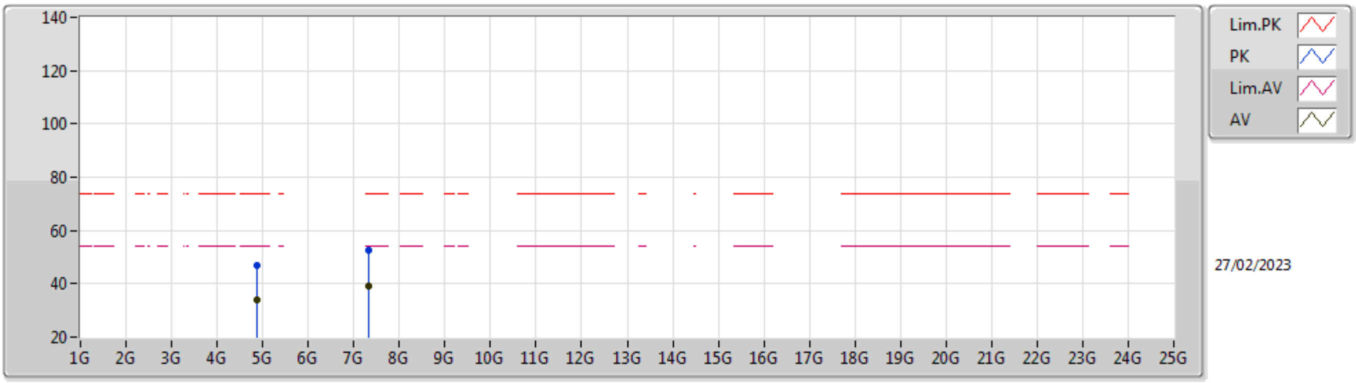



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.86692G | 47.87 | 74.00 | -26.13 | 41.98 | 3 | Vertical | 109 | 1.80 | - | 33.00 | 5.77 | 32.88 |
| AV | 4.87388G | 33.86 | 54.00 | -20.14 | 27.97 | 3 | Vertical | 109 | 1.80 | - | 33.00 | 5.77 | 32.88 |
| PK | 7.31466G | 53.33 | 74.00 | -20.67 | 41.75 | 3 | Vertical | 126 | 2.35 | - | 37.60 | 7.16 | 33.18 |
| AV | 7.31328G | 40.29 | 54.00 | -13.71 | 28.71 | 3 | Vertical | 126 | 2.35 | - | 37.60 | 7.16 | 33.18 |

# 2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

## 2437MHz_TX

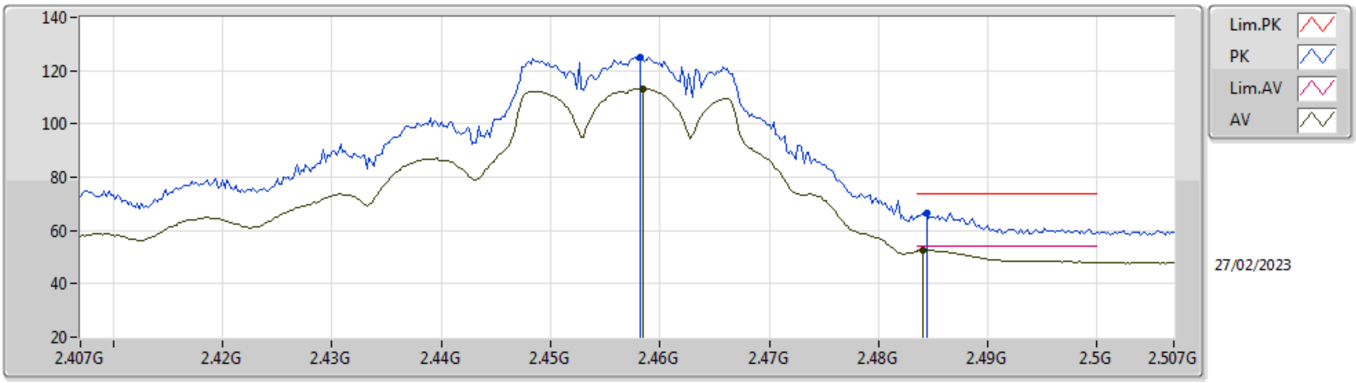



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.87244G | 47.15 | 74.00 | -26.85 | 41.26 | 3 | Horizontal | 330 | 1.31 | - | 33.00 | 5.77 | 32.88 |
| AV | 4.87394G | 33.89 | 54.00 | -20.11 | 28.00 | 3 | Horizontal | 330 | 1.31 | - | 33.00 | 5.77 | 32.88 |
| PK | 7.31514G | 52.81 | 74.00 | -21.19 | 41.23 | 3 | Horizontal | 183 | 1.80 | - | 37.60 | 7.16 | 33.18 |
| AV | 7.31508G | 39.14 | 54.00 | -14.86 | 27.56 | 3 | Horizontal | 183 | 1.80 | - | 37.60 | 7.16 | 33.18 |

## 2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

## 2457MHz_TX

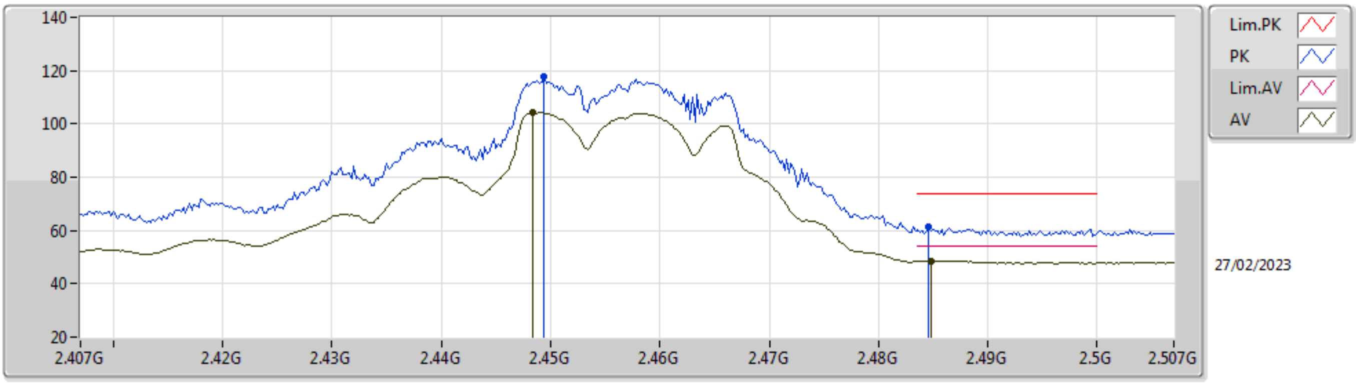



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.4582G | 125.13 | Inf | -Inf | 93.55 | 3 | Vertical | 311 | 1.80 | - | 27.95 | 3.63 | - |
| AV | 2.4584G | 113.30 | Inf | -Inf | 81.72 | 3 | Vertical | 311 | 1.80 | - | 27.95 | 3.63 | - |
| PK | 2.4844G | 66.72 | 74.00 | -7.28 | 34.97 | 3 | Vertical | 311 | 1.80 | - | 28.11 | 3.64 | - |
| AV | 2.484G | 52.56 | 54.00 | -1.44 | 20.82 | 3 | Vertical | 311 | 1.80 | - | 28.10 | 3.64 | - |

## 2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

## 2457MHz_TX

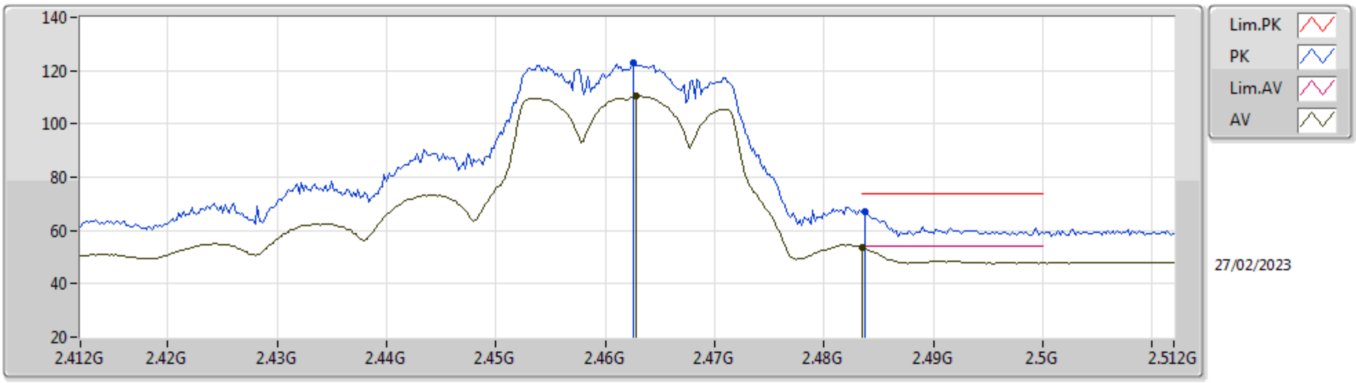



EUT X_2TX
Setting 27.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.4494G | 117.87 | Inf | -Inf | 86.35 | 3 | Horizontal | 245 | 1.31 | - | 27.90 | 3.62 | - |
| AV | 2.4484G | 104.22 | Inf | -Inf | 72.70 | 3 | Horizontal | 245 | 1.31 | - | 27.90 | 3.62 | - |
| PK | 2.4846G | 61.32 | 74.00 | -12.68 | 29.57 | 3 | Horizontal | 245 | 1.31 | - | 28.11 | 3.64 | - |
| AV | 2.4848G | 48.57 | 54.00 | -5.43 | 16.82 | 3 | Horizontal | 245 | 1.31 | - | 28.11 | 3.64 | - |

# 2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

## 2462MHz_TX

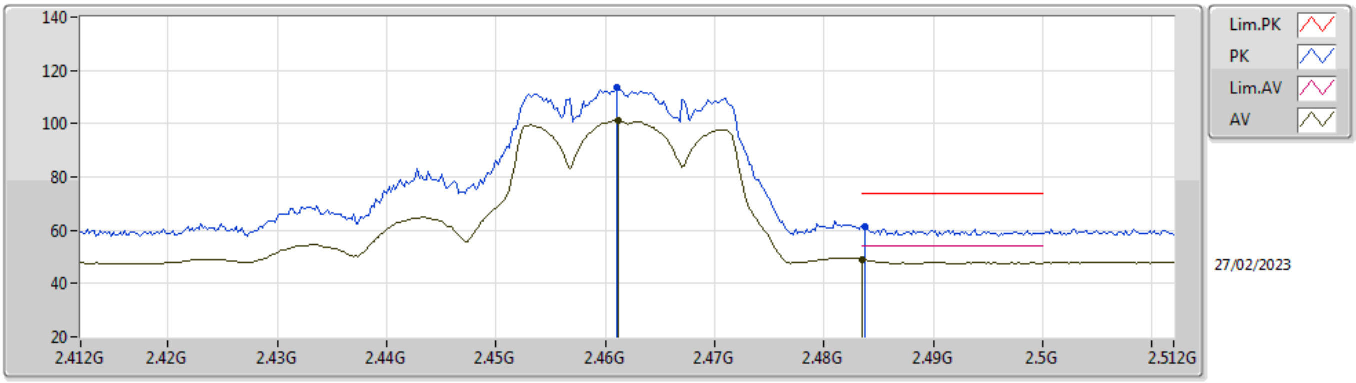



EUT X_2TX
Setting 23.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.4626G | 122.82 | Inf | -Inf | 91.21 | 3 | Vertical | 312 | 1.80 | - | 27.98 | 3.63 | - |
| AV | 2.4628G | 110.61 | Inf | -Inf | 79.00 | 3 | Vertical | 312 | 1.80 | - | 27.98 | 3.63 | - |
| PK | 2.4838G | 67.26 | 74.00 | -6.74 | 35.52 | 3 | Vertical | 312 | 1.80 | - | 28.10 | 3.64 | - |
| AV | 2.4835G | 53.51 | 54.00 | -0.49 | 21.77 | 3 | Vertical | 312 | 1.80 | - | 28.10 | 3.64 | - |

## 2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

## 2462MHz_TX

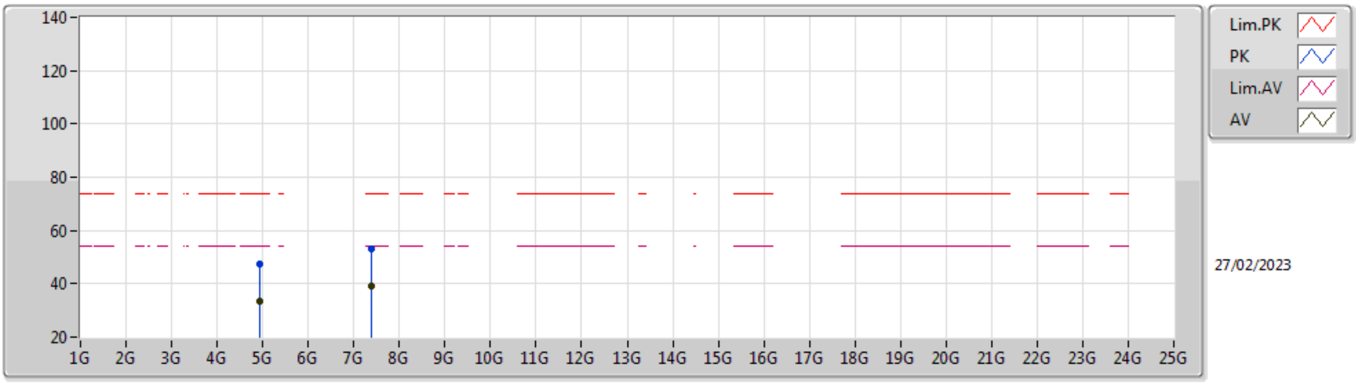



EUT X_2TX
Setting 23.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.461G | 113.67 | Inf | -Inf | 82.07 | 3 | Horizontal | 247 | 1.79 | - | 27.97 | 3.63 | - |
| AV | 2.4612G | 101.08 | Inf | -Inf | 69.48 | 3 | Horizontal | 247 | 1.79 | - | 27.97 | 3.63 | - |
| PK | 2.4838G | 61.33 | 74.00 | -12.67 | 29.59 | 3 | Horizontal | 247 | 1.79 | - | 28.10 | 3.64 | - |
| AV | 2.4835G | 49.06 | 54.00 | -4.94 | 17.32 | 3 | Horizontal | 247 | 1.79 | - | 28.10 | 3.64 | - |

## 2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

## 2462MHz_TX

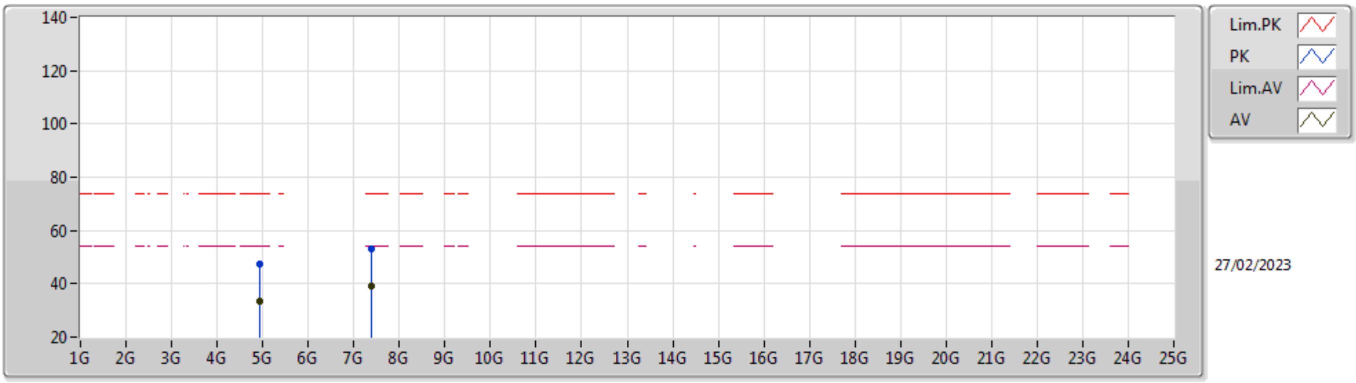



EUT X_2TX
Setting 23.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.9286G | 47.35 | 74.00 | -26.65 | 41.38 | 3 | Vertical | 286 | 1.13 | - | 33.00 | 5.83 | 32.86 |
| AV | 4.92394G | 33.44 | 54.00 | -20.56 | 27.49 | 3 | Vertical | 286 | 1.13 | - | 33.00 | 5.82 | 32.87 |
| PK | 7.38684G | 53.20 | 74.00 | -20.80 | 41.70 | 3 | Vertical | 186 | 1.09 | - | 37.53 | 7.19 | 33.22 |
| AV | 7.38502G | 39.22 | 54.00 | -14.78 | 27.72 | 3 | Vertical | 186 | 1.09 | - | 37.53 | 7.19 | 33.22 |

## 2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

## 2462MHz_TX

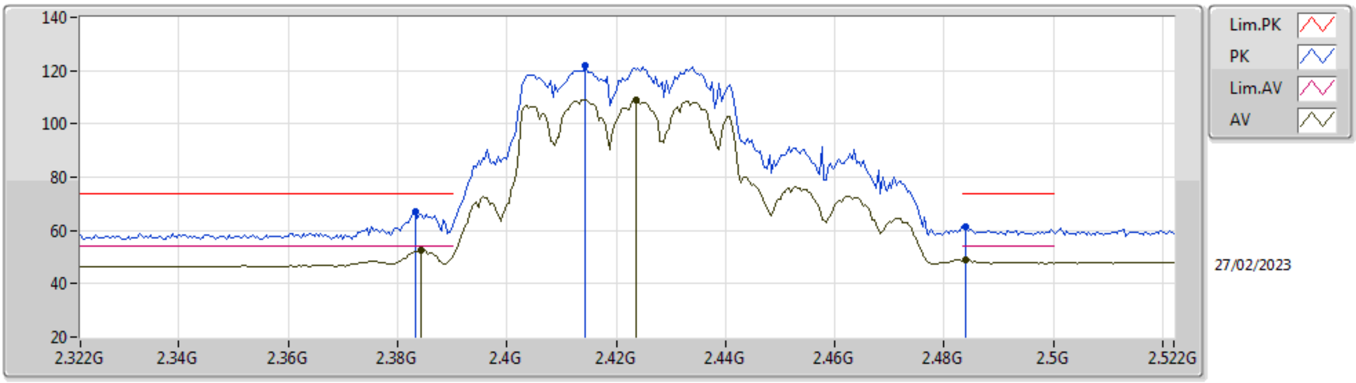



EUT X_2TX
Setting 23.5
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.9238G | 47.38 | 74.00 | -26.62 | 41.43 | 3 | Horizontal | 253 | 1.59 | - | 33.00 | 5.82 | 32.87 |
| AV | 4.92398G | 33.53 | 54.00 | -20.47 | 27.58 | 3 | Horizontal | 253 | 1.59 | - | 33.00 | 5.82 | 32.87 |
| PK | 7.3824G | 53.21 | 74.00 | -20.79 | 41.70 | 3 | Horizontal | 143 | 1.11 | - | 37.54 | 7.19 | 33.22 |
| AV | 7.381G | 39.39 | 54.00 | -14.61 | 27.88 | 3 | Horizontal | 143 | 1.11 | - | 37.54 | 7.19 | 33.22 |

## 2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

## 2422MHz_TX

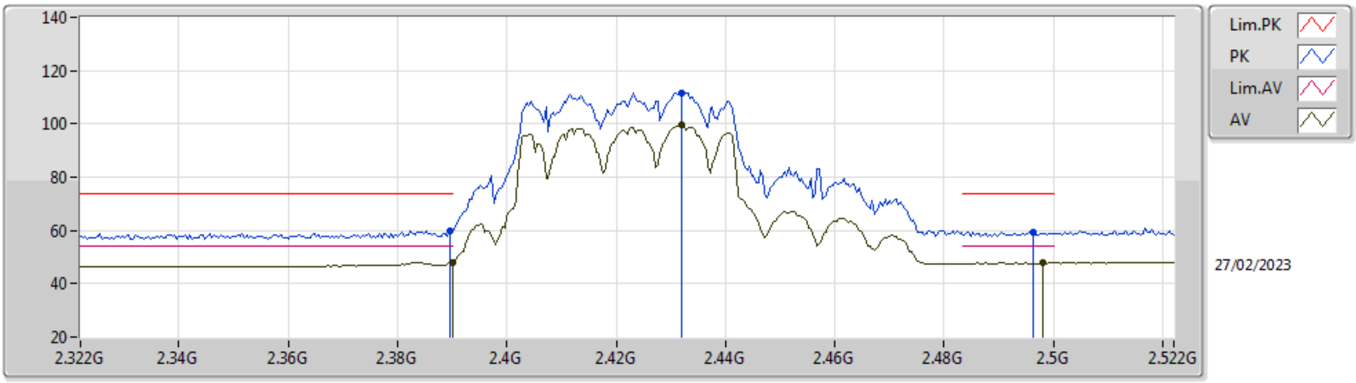



EUT X_2TX
Setting 23
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.3832G | 67.28 | 74.00 | -6.72 | 35.93 | 3 | Vertical | 330 | 1.80 | - | 27.77 | 3.58 | - |
| AV | 2.3844G | 52.64 | 54.00 | -1.36 | 21.29 | 3 | Vertical | 330 | 1.80 | - | 27.77 | 3.58 | - |
| PK | 2.4144G | 121.64 | Inf | -Inf | 90.20 | 3 | Vertical | 330 | 1.80 | - | 27.83 | 3.61 | - |
| AV | 2.4236G | 108.96 | Inf | -Inf | 77.50 | 3 | Vertical | 330 | 1.80 | - | 27.85 | 3.61 | - |
| PK | 2.484G | 61.38 | 74.00 | -12.62 | 29.64 | 3 | Vertical | 330 | 1.80 | - | 28.10 | 3.64 | - |
| AV | 2.484G | 48.82 | 54.00 | -5.18 | 17.08 | 3 | Vertical | 330 | 1.80 | - | 28.10 | 3.64 | - |

## 2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

## 2422MHz_TX

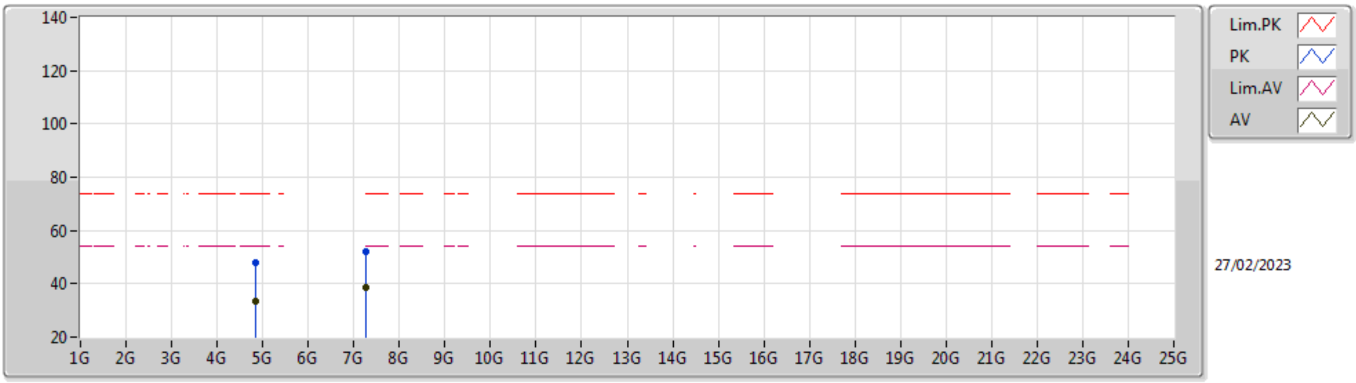



EUT X_2TX
Setting 23
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.3896G | 59.78 | 74.00 | -14.22 | 28.41 | 3 | Horizontal | 250 | 1.80 | - | 27.78 | 3.59 | - |
| AV | 2.39G | 48.13 | 54.00 | -5.87 | 16.76 | 3 | Horizontal | 250 | 1.80 | - | 27.78 | 3.59 | - |
| PK | 2.432G | 111.73 | Inf | -Inf | 80.25 | 3 | Horizontal | 250 | 1.80 | - | 27.86 | 3.62 | - |
| AV | 2.432G | 99.84 | Inf | -Inf | 68.36 | 3 | Horizontal | 250 | 1.80 | - | 27.86 | 3.62 | - |
| PK | 2.4964G | 59.56 | 74.00 | -14.44 | 27.73 | 3 | Horizontal | 250 | 1.80 | - | 28.18 | 3.65 | - |
| AV | 2.498G | 47.77 | 54.00 | -6.23 | 15.93 | 3 | Horizontal | 250 | 1.80 | - | 28.19 | 3.65 | - |

## 2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

## 2422MHz_TX

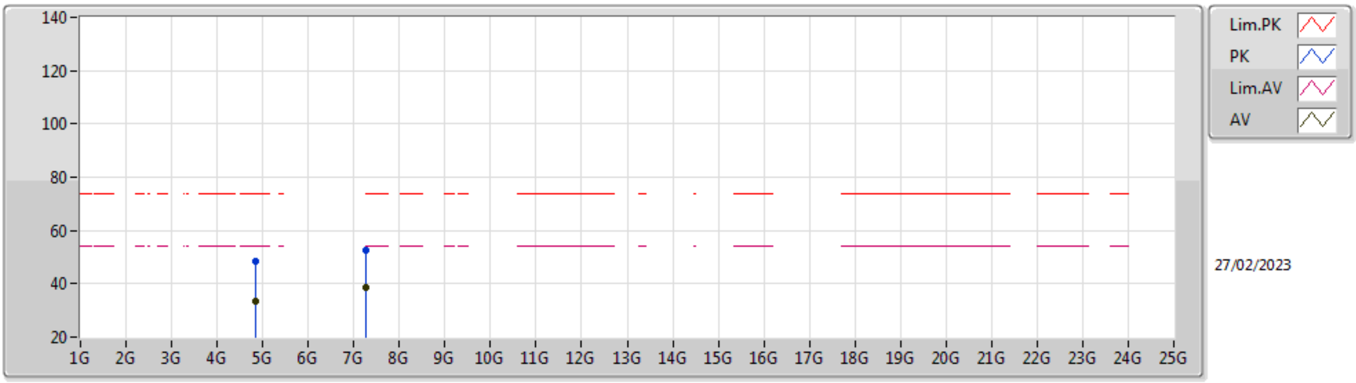



EUT X_2TX
Setting 23
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.84734G | 48.00 | 74.00 | -26.00 | 42.15 | 3 | Vertical | 252 | 2.01 | - | 32.98 | 5.75 | 32.88 |
| AV | 4.84202G | 33.64 | 54.00 | -20.36 | 27.83 | 3 | Vertical | 252 | 2.01 | - | 32.95 | 5.74 | 32.88 |
| PK | 7.26614G | 51.92 | 74.00 | -22.08 | 40.49 | 3 | Vertical | 101 | 2.90 | - | 37.46 | 7.13 | 33.16 |
| AV | 7.26374G | 38.52 | 54.00 | -15.48 | 27.10 | 3 | Vertical | 101 | 2.90 | - | 37.45 | 7.13 | 33.16 |

## 2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

## 2422MHz_TX

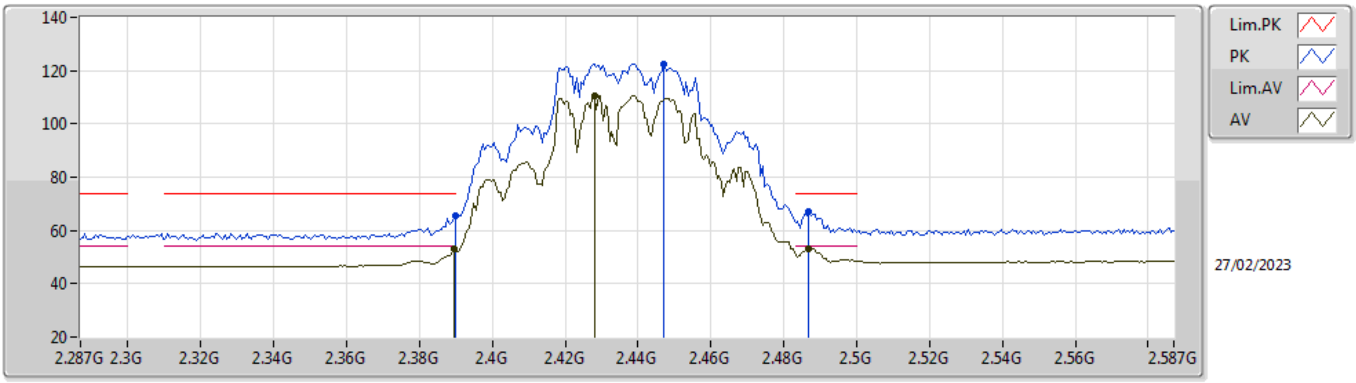



EUT X_2TX
Setting 23
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.84608G | 48.53 | 74.00 | -25.47 | 42.68 | 3 | Horizontal | 4 | 2.45 | - | 32.98 | 5.75 | 32.88 |
| AV | 4.8437G | 33.60 | 54.00 | -20.40 | 27.78 | 3 | Horizontal | 4 | 2.45 | - | 32.96 | 5.74 | 32.88 |
| PK | 7.26938G | 52.34 | 74.00 | -21.66 | 40.89 | 3 | Horizontal | 135 | 1.72 | - | 37.48 | 7.13 | 33.16 |
| AV | 7.27066G | 38.54 | 54.00 | -15.46 | 27.08 | 3 | Horizontal | 135 | 1.72 | - | 37.48 | 7.14 | 33.16 |

## 2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

## 2437MHz_TX

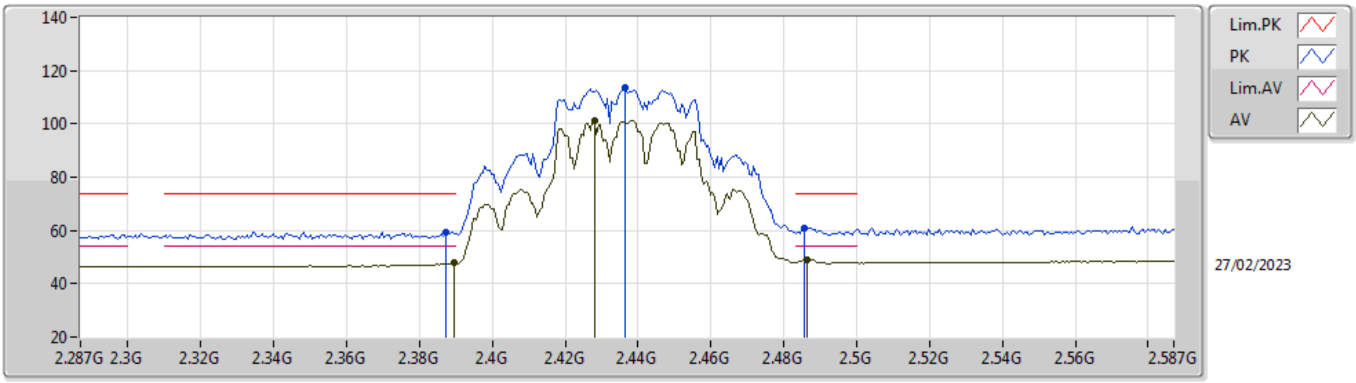



EUT X_2TX
Setting 25
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.39G | 65.51 | 74.00 | -8.49 | 34.14 | 3 | Vertical | 326 | 1.80 | - | 27.78 | 3.59 | - |
| AV | 2.3896G | 52.87 | 54.00 | -1.13 | 21.50 | 3 | Vertical | 326 | 1.80 | - | 27.78 | 3.59 | - |
| PK | 2.4472G | 122.64 | Inf | -Inf | 91.13 | 3 | Vertical | 326 | 1.80 | - | 27.89 | 3.62 | - |
| AV | 2.428G | 110.51 | Inf | -Inf | 79.04 | 3 | Vertical | 326 | 1.80 | - | 27.86 | 3.61 | - |
| PK | 2.4868G | 67.08 | 74.00 | -6.92 | 35.32 | 3 | Vertical | 326 | 1.80 | - | 28.12 | 3.64 | - |
| AV | 2.4868G | 53.20 | 54.00 | -0.80 | 21.44 | 3 | Vertical | 326 | 1.80 | - | 28.12 | 3.64 | - |

## 2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

## 2437MHz_TX

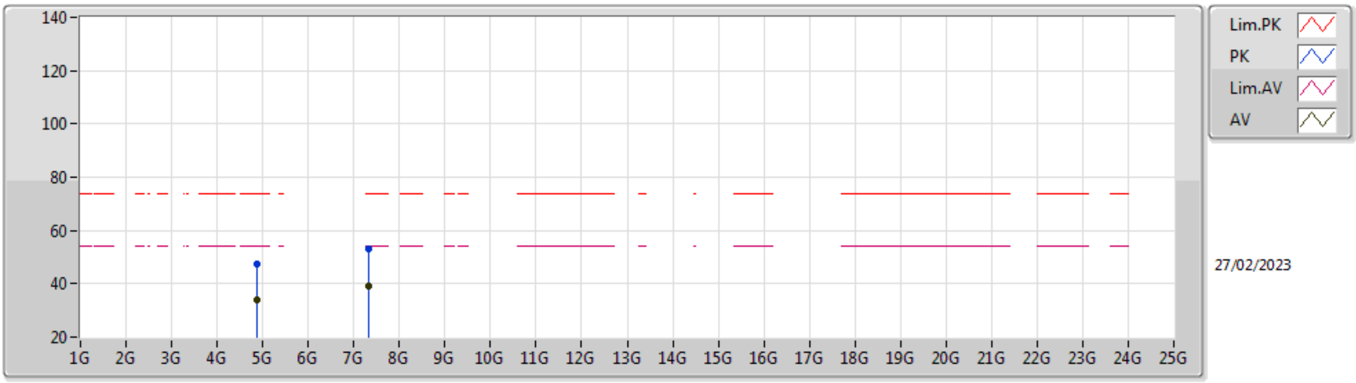



EUT X_2TX
Setting 25
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.3872G | 59.37 | 74.00 | -14.63 | 28.01 | 3 | Horizontal | 249 | 1.80 | - | 27.77 | 3.59 | - |
| AV | 2.3896G | 48.03 | 54.00 | -5.97 | 16.66 | 3 | Horizontal | 249 | 1.80 | - | 27.78 | 3.59 | - |
| PK | 2.4364G | 113.81 | Inf | -Inf | 82.32 | 3 | Horizontal | 249 | 1.80 | - | 27.87 | 3.62 | - |
| AV | 2.428G | 101.31 | Inf | -Inf | 69.84 | 3 | Horizontal | 249 | 1.80 | - | 27.86 | 3.61 | - |
| PK | 2.4856G | 61.06 | 74.00 | -12.94 | 29.31 | 3 | Horizontal | 249 | 1.80 | - | 28.11 | 3.64 | - |
| AV | 2.4862G | 48.92 | 54.00 | -5.08 | 17.16 | 3 | Horizontal | 249 | 1.80 | - | 28.12 | 3.64 | - |

## 2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

## 2437MHz_TX

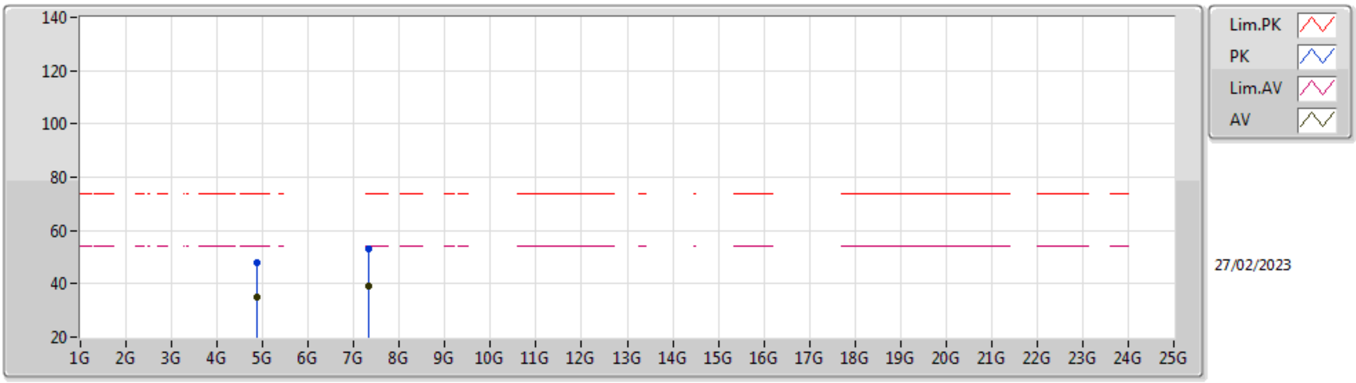



EUT X_2TX
Setting 25
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.86326G | 47.46 | 74.00 | -26.54 | 41.58 | 3 | Vertical | 140 | 2.58 | - | 33.00 | 5.76 | 32.88 |
| AV | 4.87382G | 34.13 | 54.00 | -19.87 | 28.24 | 3 | Vertical | 140 | 2.58 | - | 33.00 | 5.77 | 32.88 |
| PK | 7.32336G | 53.17 | 74.00 | -20.83 | 41.60 | 3 | Vertical | 351 | 1.00 | - | 37.60 | 7.16 | 33.19 |
| AV | 7.32832G | 39.28 | 54.00 | -14.72 | 27.71 | 3 | Vertical | 351 | 1.00 | - | 37.60 | 7.16 | 33.19 |

## 2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

## 2437MHz_TX

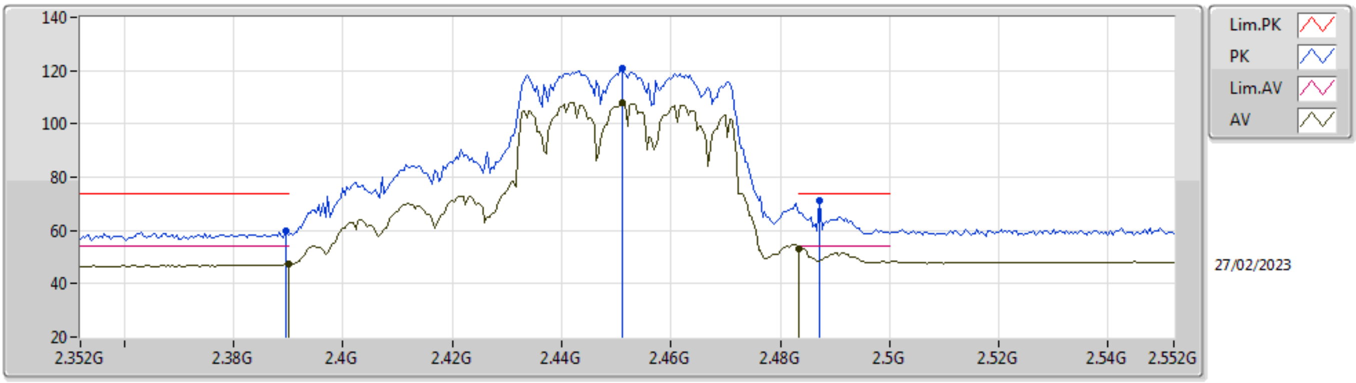



EUT X_2TX
Setting 25
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.88072G | 47.92 | 74.00 | -26.08 | 42.01 | 3 | Horizontal | 144 | 1.50 | - | 33.00 | 5.78 | 32.87 |
| AV | 4.874G | 34.80 | 54.00 | -19.20 | 28.91 | 3 | Horizontal | 144 | 1.50 | - | 33.00 | 5.77 | 32.88 |
| PK | 7.31904G | 53.02 | 74.00 | -20.98 | 41.45 | 3 | Horizontal | 346 | 2.98 | - | 37.60 | 7.16 | 33.19 |
| AV | 7.31576G | 39.26 | 54.00 | -14.74 | 27.68 | 3 | Horizontal | 346 | 2.98 | - | 37.60 | 7.16 | 33.18 |

## 2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

## 2452MHz_TX

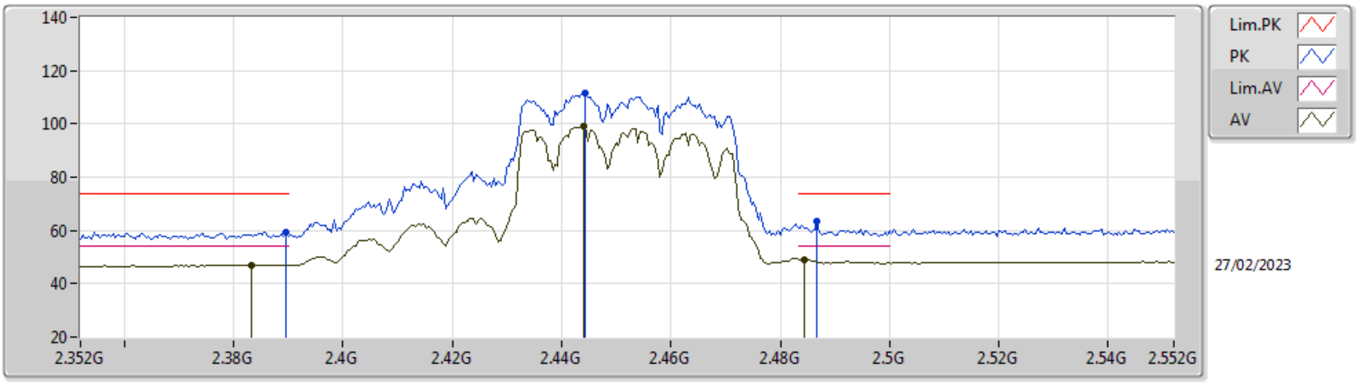



EUT X_2TX
Setting 23
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.3896G | 59.62 | 74.00 | -14.38 | 28.25 | 3 | Vertical | 324 | 2.33 | - | 27.78 | 3.59 | - |
| AV | 2.39G | 47.33 | 54.00 | -6.67 | 15.96 | 3 | Vertical | 324 | 2.33 | - | 27.78 | 3.59 | - |
| PK | 2.4512G | 120.96 | Inf | -Inf | 89.42 | 3 | Vertical | 324 | 2.33 | - | 27.91 | 3.63 | - |
| AV | 2.4512G | 108.10 | Inf | -Inf | 76.56 | 3 | Vertical | 324 | 2.33 | - | 27.91 | 3.63 | - |
| PK | 2.4872G | 71.08 | 74.00 | -2.92 | 39.32 | 3 | Vertical | 324 | 2.33 | - | 28.12 | 3.64 | - |
| AV | 2.4835G | 53.19 | 54.00 | -0.81 | 21.45 | 3 | Vertical | 324 | 2.33 | - | 28.10 | 3.64 | - |

## 2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

## 2452MHz_TX

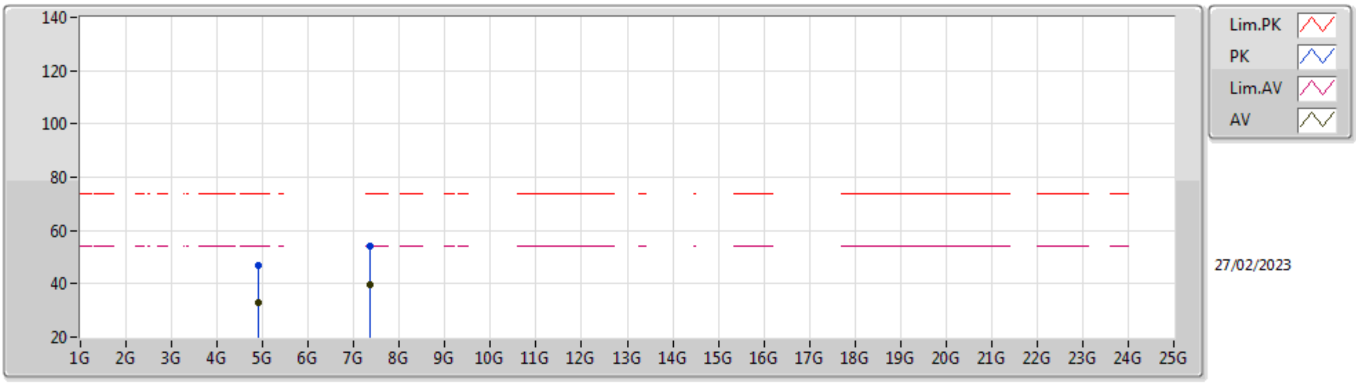



EUT X_2TX
Setting 23
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.3896G | 59.50 | 74.00 | -14.50 | 28.13 | 3 | Horizontal | 246 | 1.33 | - | 27.78 | 3.59 | - |
| AV | 2.3832G | 46.94 | 54.00 | -7.06 | 15.59 | 3 | Horizontal | 246 | 1.33 | - | 27.77 | 3.58 | - |
| PK | 2.4444G | 111.42 | Inf | -Inf | 79.91 | 3 | Horizontal | 246 | 1.33 | - | 27.89 | 3.62 | - |
| AV | 2.444G | 99.22 | Inf | -Inf | 67.71 | 3 | Horizontal | 246 | 1.33 | - | 27.89 | 3.62 | - |
| PK | 2.4868G | 63.39 | 74.00 | -10.61 | 31.63 | 3 | Horizontal | 246 | 1.33 | - | 28.12 | 3.64 | - |
| AV | 2.4844G | 49.16 | 54.00 | -4.84 | 17.41 | 3 | Horizontal | 246 | 1.33 | - | 28.11 | 3.64 | - |

## 2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

## 2452MHz_TX

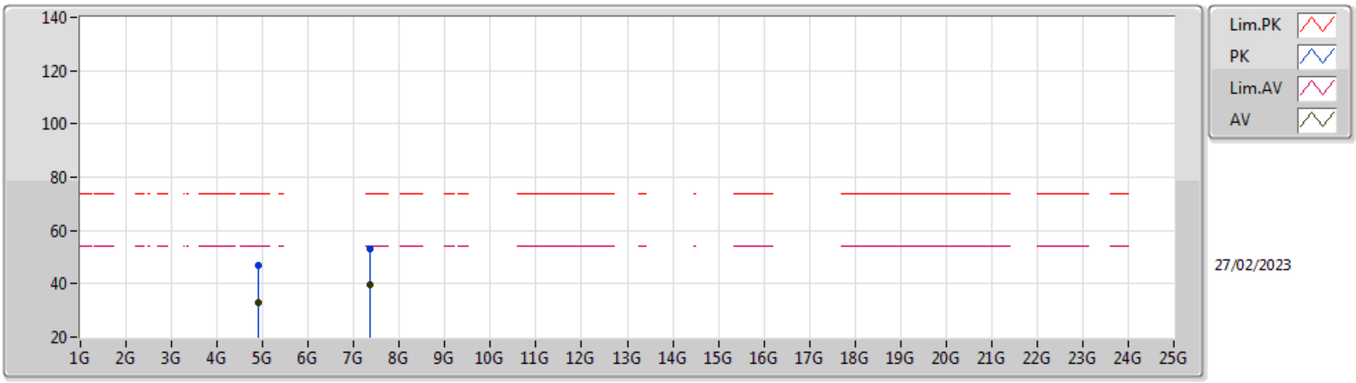



EUT X_2TX
Setting 23
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.90852G | 46.76 | 74.00 | -27.24 | 40.82 | 3 | Vertical | 47 | 1.80 | - | 33.00 | 5.81 | 32.87 |
| AV | 4.9045G | 32.92 | 54.00 | -21.08 | 26.99 | 3 | Vertical | 47 | 1.80 | - | 33.00 | 5.80 | 32.87 |
| PK | 7.35962G | 54.29 | 74.00 | -19.71 | 42.74 | 3 | Vertical | 244 | 1.97 | - | 37.58 | 7.18 | 33.21 |
| AV | 7.35526G | 39.43 | 54.00 | -14.57 | 27.86 | 3 | Vertical | 244 | 1.97 | - | 37.59 | 7.18 | 33.20 |

## 2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

## 2452MHz_TX



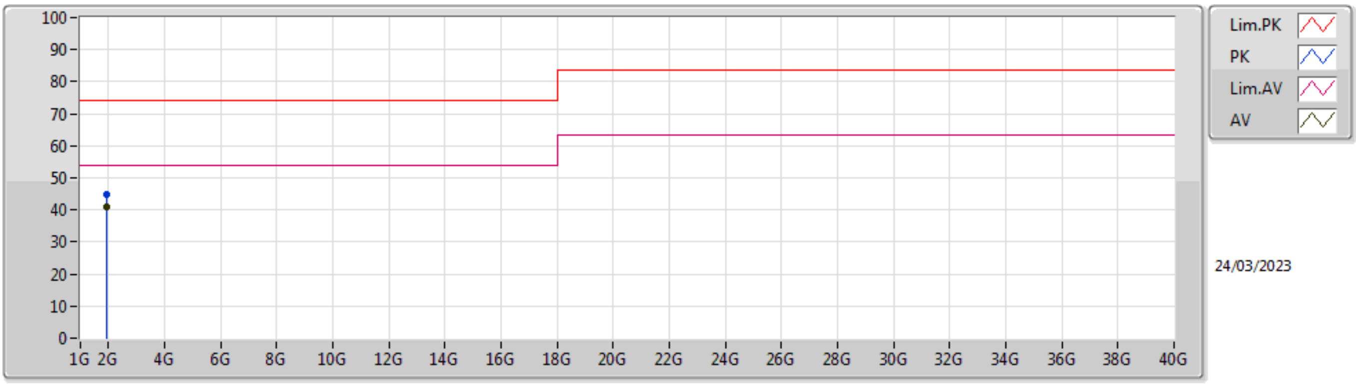

EUT X_2TX
Setting 23
01-B-E-5

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.90328G | 46.88 | 74.00 | -27.12 | 40.95 | 3 | Horizontal | 61 | 1.10 | - | 33.00 | 5.80 | 32.87 |
| AV | 4.90282G | 33.01 | 54.00 | -20.99 | 27.08 | 3 | Horizontal | 61 | 1.10 | - | 33.00 | 5.80 | 32.87 |
| PK | 7.35376G | 52.89 | 74.00 | -21.11 | 41.32 | 3 | Horizontal | 68 | 1.64 | - | 37.59 | 7.18 | 33.20 |
| AV | 7.35738G | 39.50 | 54.00 | -14.50 | 27.94 | 3 | Horizontal | 68 | 1.64 | - | 37.59 | 7.18 | 33.21 |

Summary

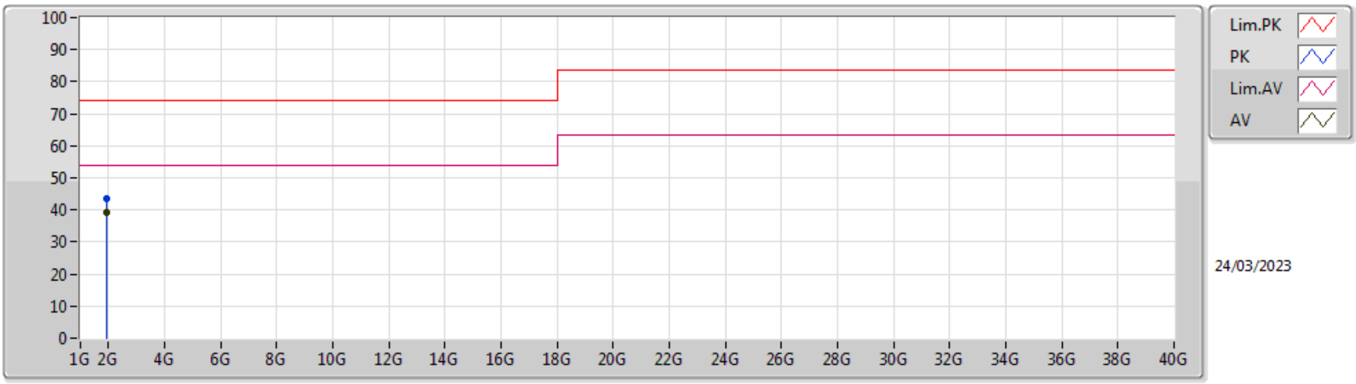
| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Condition |
|---|---|---|---|---|---|---|---|
| Mode 1 | Pass | AV | 1.92002G | 40.97 | 54.00 | -13.03 | Vertical |

## Mode 1




| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB/m) | (m) | | (°) | (m) | | (dBuV/m) | (dB/m) | (dB) | (dB) |
| PK | 1.92005G | 44.63 | 74.00 | -29.37 | -4.33 | 3 | Vertical | 13.2 | 114 | - | 48.96 | 25.78 | 4.43 | 34.54 |
| AV | 1.92002G | 40.97 | 54.00 | -13.03 | -4.33 | 3 | Vertical | 13.2 | 114 | "Worst" | 45.30 | 25.78 | 4.43 | 34.54 |

## Mode 1




| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB/m) | (m) | | (°) | (m) | | (dBuV/m) | (dB/m) | (dB) | (dB) |
| PK | 1.91986G | 43.71 | 74.00 | -30.29 | -4.33 | 3 | Horizontal | 0 | 253.1 | - | 48.04 | 25.78 | 4.43 | 34.54 |
| AV | 1.92001G | 39.35 | 54.00 | -14.65 | -4.33 | 3 | Horizontal | 0 | 253.1 | "Worst" | 43.68 | 25.78 | 4.43 | 34.54 |