Testing Laboratory 3787

# RADIO TEST REPORT

| | | |
|---|---|---|
| FCC ID | : | MSQ-RTAX8301 |
| Equipment | : | AX1800 + AV1300 Dual-band Powerline Mesh WiFi6 System, ZenWiFi Hybrid Mesh Wi-Fi System |
| Brand Name | : | ASUS |
| Model Name | : | XP4N, XP4 Node |
| Applicant | : | ASUSTeK COMPUTER INC.<br>1F., No. 15, Lide Rd., Beitou, Taipei 112, Taiwan |
| Manufacturer | : | ASUSTeK COMPUTER INC.<br>1F., No. 15, Lide Rd., Beitou, Taipei 112, Taiwan |
| Standard | : | 47 CFR FCC Part 15.407 |

The product was received on Dec. 16, 2020, and testing was started from Dec. 17, 2020 and completed on Apr. 21, 2021. 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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**Photographs of EUT v01**

# History of this test report

| Report No. | Version | Description | Issued Date |
|---|---|---|---|
| FR042155AB | 01 | Initial issue of report | May 04, 2021 |
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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 | 15.407(a) | Emission Bandwidth | PASS | - |
| 3.3 | 15.407(a) | Maximum Conducted Output Power | PASS | - |
| 3.4 | 15.407(a) | Peak Power Spectral Density | PASS | - |
| 3.5 | 15.407(b) | Unwanted Emissions | PASS | - |
| Reference to Sporton Project No.: 042147 | | | | |

| **Declaration of Conformity:** |
|---|
| The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. |
| **Comments and Explanations:** |
| The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification. |

**Reviewed by: Sam Chen**

**Report Producer: Viola Huang**

# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

| Frequency Range (MHz) | IEEE Std. 802.11 | Ch. Frequency (MHz) | Channel Number |
|---|---|---|---|
| 5150-5250 | a, n (HT20), ac (VHT20), ax (HEW20) | 5180-5240 | 36-48 [4] |
| 5725-5850 | | 5745-5825 | 149-165 [5] |
| 5150-5250 | n (HT40), ac (VHT40), ax (HEW40) | 5190-5230 | 38-46 [2] |
| 5725-5850 | | 5755-5795 | 151-159 [2] |
| 5150-5250 | ac (VHT80), ax (HEW80) | 5210 | 42 [1] |
| 5725-5850 | | 5775 | 155 [1] |

| Band | Mode | BWch (MHz) | Nant |
|---|---|---|---|
| 5.15-5.25GHz | 11a | 20 | 2 |
| 5.15-5.25GHz | HT20 | 20 | 2 |
| 5.15-5.25GHz | HT20-BF | 20 | 2 |
| 5.15-5.25GHz | VHT20 | 20 | 2 |
| 5.15-5.25GHz | VHT20-BF | 20 | 2 |
| 5.15-5.25GHz | HEW20 | 20 | 2 |
| 5.15-5.25GHz | HEW20-BF | 20 | 2 |
| 5.15-5.25GHz | HT40 | 40 | 2 |
| 5.15-5.25GHz | HT40-BF | 40 | 2 |
| 5.15-5.25GHz | VHT40 | 40 | 2 |
| 5.15-5.25GHz | VHT40-BF | 40 | 2 |
| 5.15-5.25GHz | HEW40 | 40 | 2 |
| 5.15-5.25GHz | HEW40-BF | 40 | 2 |
| 5.15-5.25GHz | VHT80 | 80 | 2 |
| 5.15-5.25GHz | VHT80-BF | 80 | 2 |
| 5.15-5.25GHz | HEW80 | 80 | 2 |
| 5.15-5.25GHz | HEW80-BF | 80 | 2 |
| 5.725-5.85GHz | HT20 | 20 | 2 |
| 5.725-5.85GHz | HT20-BF | 20 | 2 |
| 5.725-5.85GHz | VHT20 | 20 | 2 |
| 5.725-5.85GHz | VHT20-BF | 20 | 2 |
| 5.725-5.85GHz | HEW20 | 20 | 2 |

| Band | Mode | BWch (MHz) | Nant |
|---|---|---|---|
| 5.725-5.85GHz | HEW20-BF | 20 | 2 |
| 5.725-5.85GHz | HT40 | 40 | 2 |
| 5.725-5.85GHz | HT40-BF | 40 | 2 |
| 5.725-5.85GHz | VHT40 | 40 | 2 |
| 5.725-5.85GHz | VHT40-BF | 40 | 2 |
| 5.725-5.85GHz | HEW40 | 40 | 2 |
| 5.725-5.85GHz | HEW40-BF | 40 | 2 |
| 5.725-5.85GHz | VHT80 | 80 | 2 |
| 5.725-5.85GHz | VHT80-BF | 80 | 2 |
| 5.725-5.85GHz | HEW80 | 80 | 2 |
| 5.725-5.85GHz | HEW80-BF | 80 | 2 |

Note:
- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- BWch is the nominal channel bandwidth.

### 1.1.2 Antenna Information

| Ant. | 2.4GHz Port | 5GHz Port | Brand | P/N | Antenna Type | Connector | Gain (dBi) |
|---|---|---|---|---|---|---|---|
| 1 | 2 | - | Xinsheng | 8000000031071341 | PCB Antenna | I-PEX | Note 1 |
| 2 | 1 | - | Xinsheng | 8000000031081341 | PCB Antenna | I-PEX | |
| 3 | - | 2 | Xinsheng | 8000000031091341 | PCB Antenna | I-PEX | |
| 4 | - | 1 | Xinsheng | 8000000031101341 | PCB Antenna | I-PEX | |

Note1:

| Ant. | Gain (dBi) | |
|---|---|---|
| | WLAN 2.4GHz | WLAN 5GHz |
| 1 | 3.25 | - |
| 2 | 3.27 | - |
| 3 | - | 3.48 |
| 4 | - | 3.41 |

Note 2: The above information was declared by manufacturer.

**For 2.4GHz function:**

**IEEE 802.11b/g/n/VHT/ax (2TX/2RX):**

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

Port 1 and Port 2 could transmit/receive simultaneously.

**For 5GHz function:**

**IEEE 802.11a/n/ac/ax (2TX/2RX):**

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

Port 1 and Port 2 could transmit/receive simultaneously.

### 1.1.3 Mode Test Duty Cycle

| Mode | DC | DCF(dB) | T(s) | VBW(Hz) ≥ 1/T |
|---|---|---|---|---|
| 802.11a | 0.939 | 0.27 | 1.977m | 1k |
| 802.11ax HEW20-BF | 0.906 | 0.43 | 1.761m | 1k |
| 802.11ax HEW40-BF | 0.965 | 0.15 | 1.761m | 1k |
| 802.11ax HEW80-BF | 0.896 | 0.48 | 1.685m | 1k |

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

### 1.1.4 EUT Operational Condition

| | | | | |
|---|---|---|---|---|
| **EUT Power Type** | Internal power supply | | | |
| **Beamforming Function** | ☒ | With beamforming | ☐ | Without beamforming |
| | The product has beamforming function for 11n/VHT/ax in 2.4GHz and 11n/ac/ax in 5GHz. | | | |
| **Function** | ☐ | Outdoor P2M | ☒ | Indoor P2M |
| | ☐ | Fixed P2P | ☐ | Client |
| **Test Software Version** | For non-beamforming mode: QSPR (Version : 5.0-00195)<br>For beamforming mode: telnet (Version 6.1.7601) | | | |

Note: The above information was declared by manufacturer.

### 1.1.5 Table for EUT Supports Functions

| Function | Support Type |
|---|---|
| AP Router | Master |
| Mesh | Master |

Note: After evaluating, there is only AP Router was selected to test and record in the report.

### 1.1.6 Table for Multiple Listing

| Equipment Name | Model Name | Description |
|---|---|---|
| AX1800 + AV1300 Dual-band Powerline Mesh WiFi6 System, ZenWiFi Hybrid Mesh Wi-Fi System | XP4N, XP4 Node | The variation of equipment name/model name is for the strategy of marketing. The circuit of each equipment name/model name is identical. |

Note 1: From the above models, model: XP4N was selected as representative model for the test and its data was recorded in this report.

Note 2: 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
- ANSI C63.10-2013
- FCC KDB 789033 D02 v02r01

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

- FCC KDB 662911 D01 v02r01
- FCC KDB 412172 D01 v01r01
- FCC KDB 414788 D01 v01r01

## 1.3 Testing Location Information

| Testing Location Information | |
|---|---|
| Test Lab.：Sporton International Inc. Hsinchu Laboratory | |
| Hsinchu (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 | TH03-CB | Jeff Wu | 22.7~23.2 / 54~57 | Jan. 13, 2021~Apr. 21, 2021 |
| Radiated (For below 1GHz test) | 03CH01-CB | KJ Chang | 21.2~22.8 / 55~57 | Dec. 26, 2020~Mar. 08, 2021 |
| Radiated (For above 1GHz test) | 03CH03-CB | KJ Chang | 20.4~21.4 / 55~57 | Dec. 26, 2020~Apr. 21, 2021 |
| | 03CH02-CB | | 20.5~21.8 / 55~58 | |
| AC Conduction | CO02-CB | Wei Li | 23~24 / 57~60 | Dec. 17, 2020 |

## 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) | 2.0 dB | Confidence levels of 95% |
| Radiated Emission (9kHz ~ 30MHz) | 3.8 dB | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 5.6 dB | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz) | 5.0 dB | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz) | 4.9 dB | Confidence levels of 95% |
| Conducted Emission | 2.8 dB | Confidence levels of 95% |
| Output Power Measurement | 1.4 dB | Confidence levels of 95% |
| Power Density Measurement | 2.8 dB | Confidence levels of 95% |
| Bandwidth Measurement | 0.4% | Confidence levels of 95% |

# 2 Test Configuration of EUT

## 2.1 Test Channel Mode

| Mode | Power Setting |
|---|---|
| 802.11a_Nss1,(6Mbps)_2TX | - |
| 5180MHz | 20 |
| 5200MHz | 26 |
| 5240MHz | 27 |
| 5745MHz | 27 |
| 5785MHz | 27 |
| 5825MHz | 27 |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | - |
| 5180MHz | 26 |
| 5200MHz | 29 |
| 5240MHz | 29 |
| 5745MHz | 29 |
| 5785MHz | 29 |
| 5825MHz | 29 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | - |
| 5190MHz | 21 |
| 5230MHz | 28 |
| 5755MHz | 28 |
| 5795MHz | 29 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | - |
| 5210MHz | 23 |
| 5775MHz | 27 |

Note:
- Evaluated HEW20/HEW40/HEW80 mode only, due to similar modulation. The power setting of HT20/HT40/VHT20/VHT40/VHT80 mode are the same or lower than HEW20/HEW40/HEW80.
- There are two modes of EUT for 802.11n/VHT/ax in 2.4GHz and 802.11n/ac/ax in 5GHz. One is beamforming mode, and the other is non-beamforming mode, after evaluating, beamforming mode has been evaluated to be the worst case, so it was selected to test and record in this test report.

## 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 |
| **Operating Mode** | Normal Link |
| 1 | EUT-AP Router + Power cord |

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | Emission Bandwidth<br>Maximum Conducted Output Power<br>Peak Power Spectral Density |
| **Test Condition** | Conducted measurement at transmit chains |

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | Unwanted Emissions |
| **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 |
| 1 | EUT + Power cord_2.4GHz |
| 2 | EUT + Power cord_5GHz |
| For operating mode 1 is the worst case and it was record in this test report. | |
| **Operating Mode > 1GHz** | CTX |
| 1 | EUT + Power cord_5GHz |

| 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.: FA042155 for Co-location RF Exposure Evaluation. | |

Note: The EUT can only use Y axis position.

## 2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under telnet.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by RX Device and transmit duty cycle no less than 98%.

For Normal Link:

During the test, the EUT operation to normal function.

## 2.4 Accessories

| Accessories |
|---|
| Power cord*1, non-shielded, 1.5m |
| RJ-45 cable*1, non-shielded, 1.5m |

## 2.5 Support Equipment

**For AC Conduction:**

| Support Equipment | | | | |
|---|---|---|---|---|
| **No.** | **Equipment** | **Brand Name** | **Model Name** | **FCC ID** |
| A | LAN1 NB | DELL | E6430 | N/A |
| B | 2.4G NB | DELL | E6430 | N/A |
| C | 5G NB | DELL | E6430 | N/A |
| D | LAN2 NB | DELL | E6430 | N/A |

**For Radiated (below 1GHz):**

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

**For Radiated (above 1GHz) and RF Conducted:**
**For non beamforming mode**

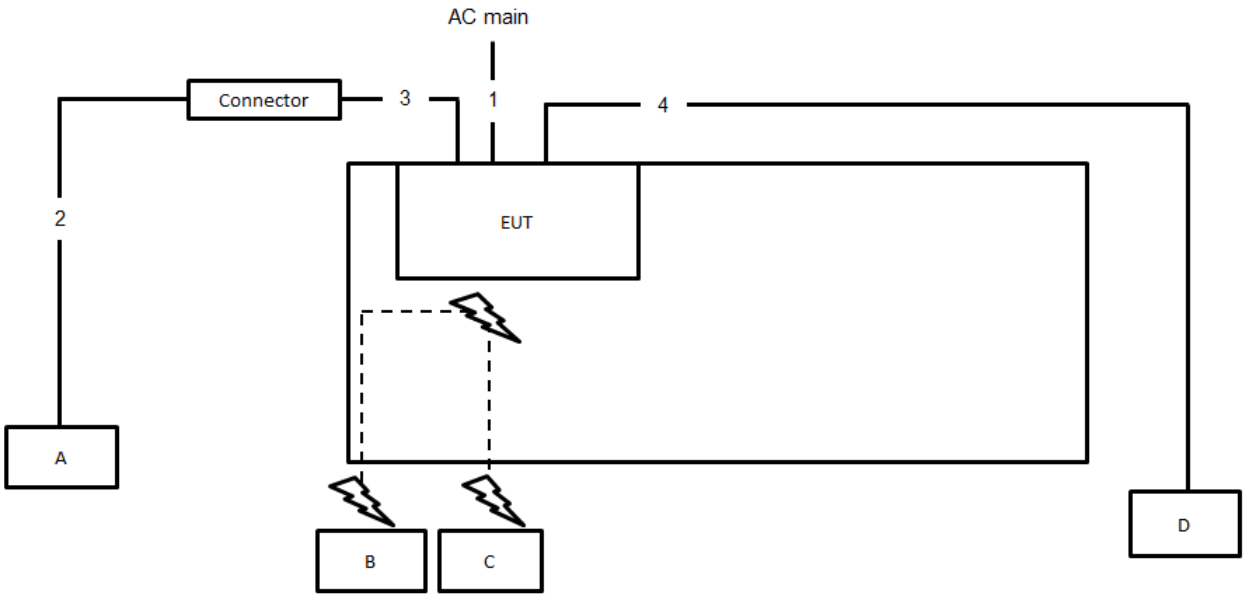
| Support Equipment | | | | |
|---|---|---|---|---|
| **No.** | **Equipment** | **Brand Name** | **Model Name** | **FCC ID** |
| A | Notebook | DELL | E4300 | N/A |

**For beamforming mode**

| Support Equipment | | | | |
|---|---|---|---|---|
| **No.** | **Equipment** | **Brand Name** | **Model Name** | **FCC ID** |
| A | Notebook | DELL | E4300 | N/A |
| B | RX Device | ASUS | XP4N | MSQ-RTAX8301 |
| C | Notebook | DELL | E4300 | N/A |

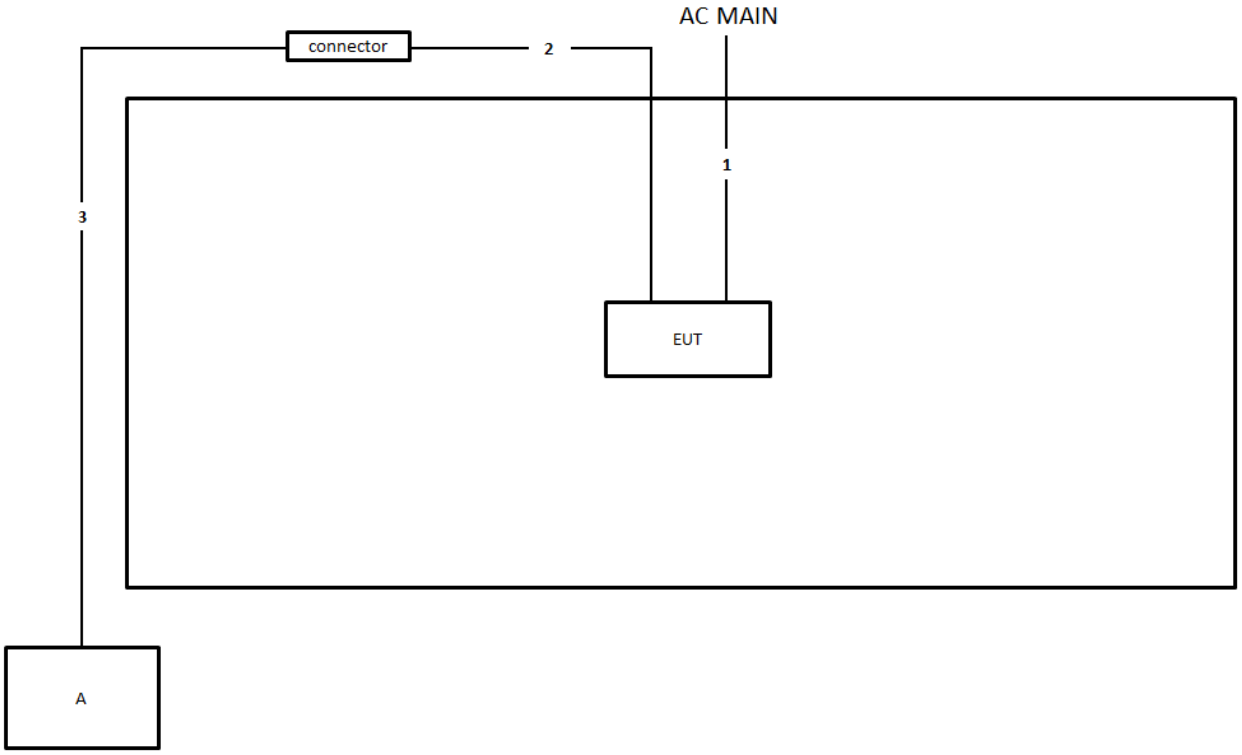
## 2.6 Test Setup Diagram

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



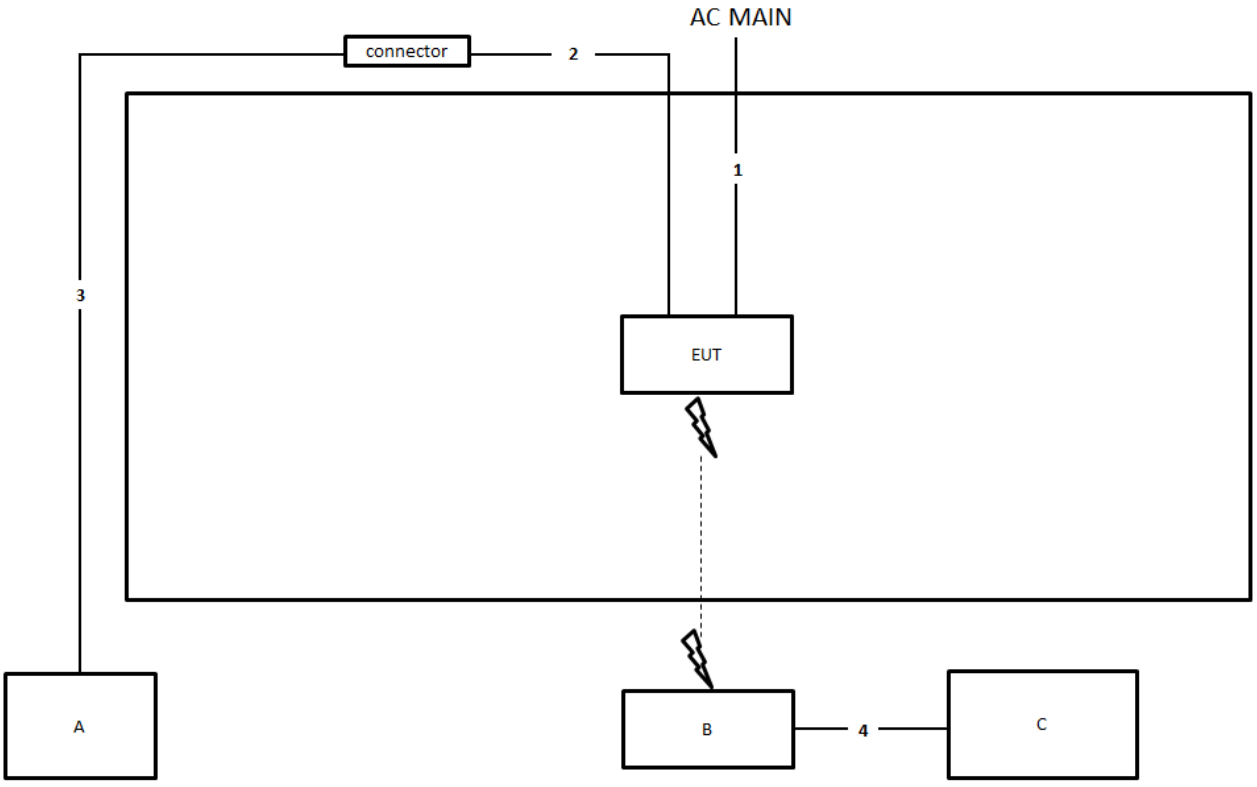

| Item | Connection | Shielded | Length |
|---|---|---|---|
| 1 | Power cable | No | 1.5m |
| 2 | RJ-45 cable | No | 10m |
| 3 | RJ-45 cable | No | 1.5m |
| 4 | RJ-45 cable | No | 10m |

**Test Setup Diagram - Radiated Test < 1GHz and Radiated Test > 1GHz for non beamforming mode**




| Item | Connection | Shielded | Length |
|---|---|---|---|
| 1 | Power cable | No | 1.5m |
| 2 | RJ-45 cable | No | 1.5m |
| 3 | RJ-45 cable | No | 10m |

**Test Setup Diagram - Radiated Test > 1GHz for beamforming mode**




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

# 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

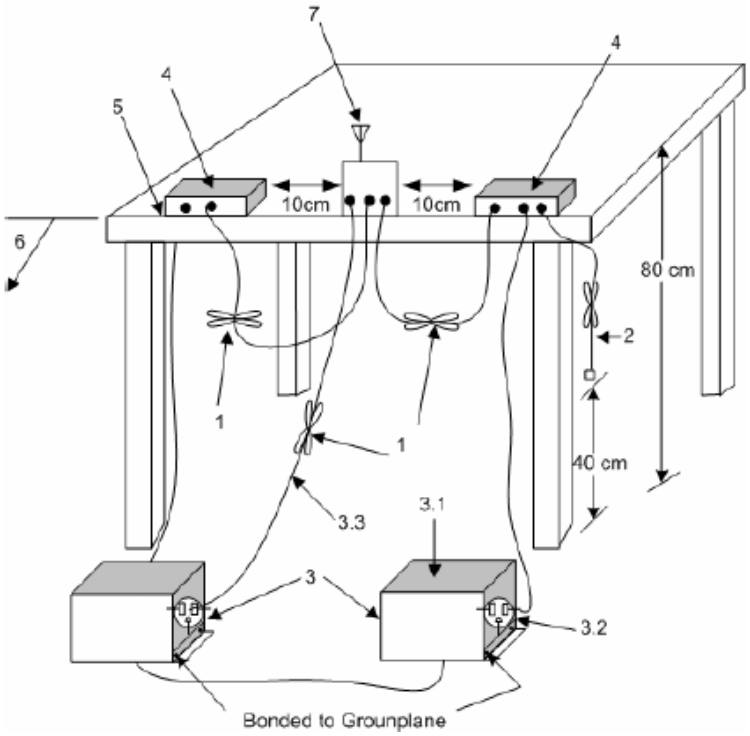
Refer a test equipment and calibration data table in this test report.

### 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 Emission Bandwidth

### 3.2.1 Emission Bandwidth Limit

| Emission Bandwidth Limit | |
|---|---|
| **UNII Devices** | |
| ☒ | For the 5.15-5.25 GHz band, N/A |
| ☐ | For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. |
| ☐ | For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. |
| ☒ | For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz. |
| **LE-LAN Devices** | |
| ☐ | For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. |
| ☐ | For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz |
| ☐ | For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz |
| ☐ | For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz. |

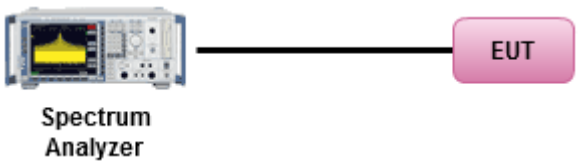
### 3.2.2 Measuring Instruments

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 789033, clause C for EBW and clause D for OBW measurement. |
| | ☐ | Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing. |
| | ☐ | Refer as IC RSS-Gen, clause 4.6 for 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 | |
|---|---|
| **UNII Devices** | |
| ☒ | For the 5.15-5.25 GHz band: |
| | ▪ Outdoor AP: the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 6). e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] |
| | ▪ Indoor AP: the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 6) |
| | ▪ Point-to-point AP: the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W If $G_{TX}$ > 23 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 23). |
| | ▪ Mobile or Portable Client: the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 250 mW. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 24 – ($G_{TX}$ – 6). |
| ☐ | For the 5.25-5.35 GHz band, the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 24 – ($G_{TX}$ – 6). |
| ☐ | For the 5.47-5.725 GHz band, the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 24 – ($G_{TX}$ – 6). |
| ☒ | For the 5.725-5.85 GHz band: |
| | ▪ Point-to-multipoint systems (P2M): the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 6). |
| | ▪ Point-to-point systems (P2P): the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W. |
| **LE-LAN Devices** | |
| ☐ | For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. |
| ☐ | For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz |
| ☐ | For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz |
| ☐ | For the 5.725-5.85 GHz band: |
| | ▪ Point-to-multipoint systems (P2M): the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 6). |
| | ▪ Point-to-point systems (P2P): the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W. |
| **$P_{Out}$** = 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 Conducted Output Power | |
| | Average over on/off periods with duty factor |
| | ☐ Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging). |
| | ☐ Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed) |
| | Wideband RF power meter and average over on/off periods with duty factor |
| | ☒ Refer as FCC KDB 789033, clause E Method PM-G (using an 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

| RF Output Power (Power Meter) |
|---|
| |

### 3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

# 3.4 Peak Power Spectral Density

## 3.4.1 Peak Power Spectral Density Limit

| Peak Power Spectral Density Limit | |
|---|---|
| **UNII Devices** | |
| ☒ | For the 5.15-5.25 GHz band: |
| | ▪ Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 17 – ($G_{TX}$ – 6). |
| | ▪ Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 17 – ($G_{TX}$ – 6). |
| | ▪ Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX}$ > 23 dBi, then $P_{Out}$ = 17 – ($G_{TX}$ – 23). |
| | ▪ Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX}$ > 6 dBi, then PPSD= 11 – ($G_{TX}$ – 6).. |
| ☐ | For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX}$ > 6 dBi, then PPSD= 11 – ($G_{TX}$ – 6). |
| ☐ | For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX}$ > 6 dBi, then PPSD= 11 – ($G_{TX}$ – 6). |
| ☒ | For the 5.725-5.85 GHz band: |
| | ▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX}$ > 6 dBi, then PPSD= 30 – ($G_{TX}$ – 6). |
| | ▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. |
| **LE-LAN Devices** | |
| ☐ | For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz. |
| ☐ | For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. |
| | ▪ e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below:<br>-13 dBW/MHz for 0° ≤ θ < 8° ; -13 − 0.716 (θ-8) dBW/MHz for 8° ≤ θ < 40°<br>-35.9 − 1.22 (θ-40) dBW/MHz for 40° ≤ θ ≤ 45° ; -42 dBW/MHz for θ > 45° |
| ☐ | For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. |
| ☐ | For the 5.725-5.85 GHz band: |
| | ▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX}$ > 6 dBi, then PPSD= 30 – ($G_{TX}$ – 6). |
| | ▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. |
| **PPSD** = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz<br>**$G_{TX}$** = the maximum transmitting antenna directional gain in dBi. | |

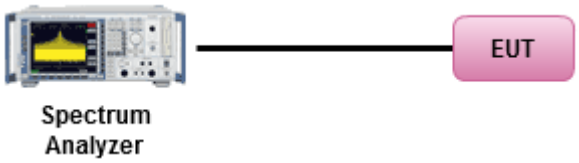
## 3.4.2 Measuring Instruments

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 shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options: | | |
| | ☐ Refer as FCC KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth | |
| | [duty cycle ≥ 98% or external video / power trigger] | |
| | ☒ Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging). | |
| | ☐ Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed) | |
| | duty cycle < 98% and average over on/off periods with duty factor | |
| | ☒ Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging). | |
| | ☐ Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed) | |
| ▪ 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. |
| | ▪ | If multiple transmit chains, EIRP PPSD calculation could be following as methods:<br>$PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n$<br>(calculated in linear unit [mW] and transfer to log unit [dBm])<br>$EIRP_{total} = PPSD_{total} + DG$ |

### 3.4.4 Test Setup

| Power Spectral Density |
| --- |
|  |

### 3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

## 3.5 Unwanted Emissions

### 3.5.1 Transmitter Unwanted Emissions Limit

| Unwanted emissions below 1 GHz and restricted band emissions above 1GHz 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.

| Un-restricted band emissions above 1GHz Limit | |
|---|---|
| **Operating Band** | **Limit** |
| ☒ 5.15 - 5.25 GHz | e.i.r.p. -27 dBm [68.2 dBuV/m@3m] |
| ☐ 5.25 - 5.35 GHz | e.i.r.p. -27 dBm [68.2 dBuV/m@3m] |
| ☐ 5.47 - 5.725 GHz | e.i.r.p. -27 dBm [68.2 dBuV/m@3m] |
| ☒ 5.725 - 5.85 GHz | all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. |

Note 1: 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). |

### 3.5.2 Measuring Instruments

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

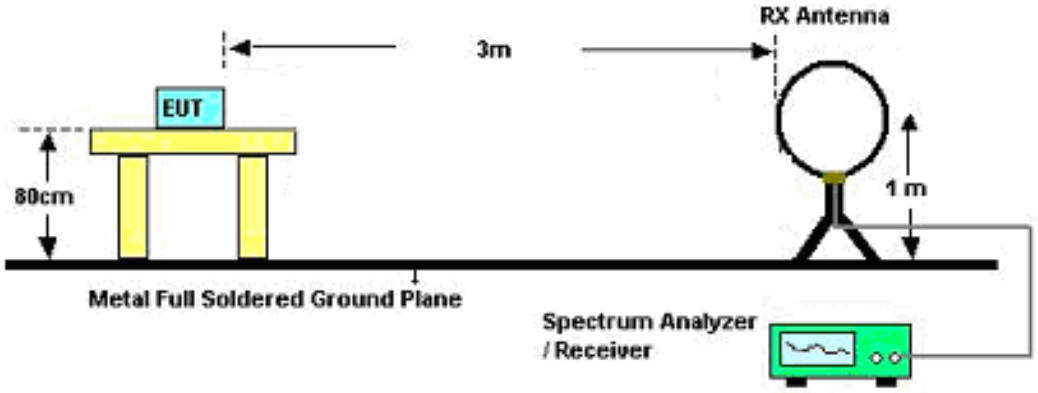
### 3.5.3 Test Procedures

| Test Method | | | |
|---|---|---|---|
| ▪ 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. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. 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). | | | |
| ▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. | | | |
| ▪ For the transmitter unwanted emissions shall be measured using following options below: | | | |
| | ▪ Refer as FCC KDB 789033, clause G)2) for unwanted emissions into non-restricted bands. | | |
| | ▪ Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands. | | |
| | | ☐ Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging). | |
| | | ☒ Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW). | |
| | | ☐ 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 789033, clause G)5) measurement procedure peak limit. | |
| | | ☐ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit. | |
| ▪ For radiated measurement. | | | |
| | ▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m. | | |
| | ▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m. | | |
| | ▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. | | |
| ▪ The any unwanted emissions level shall not exceed the fundamental emission level. | | | |
| ▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported. | | | |

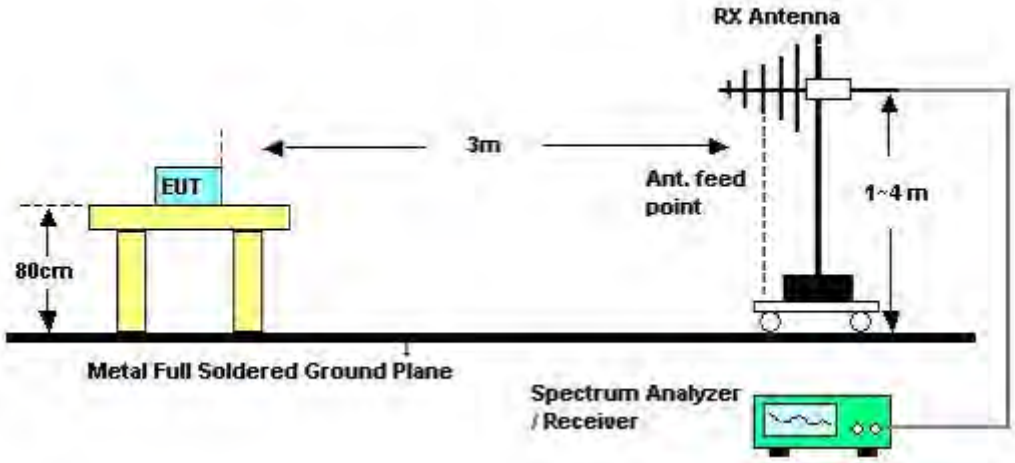
### 3.5.4 Test Setup

**Transmitter Radiated Unwanted Emissions**

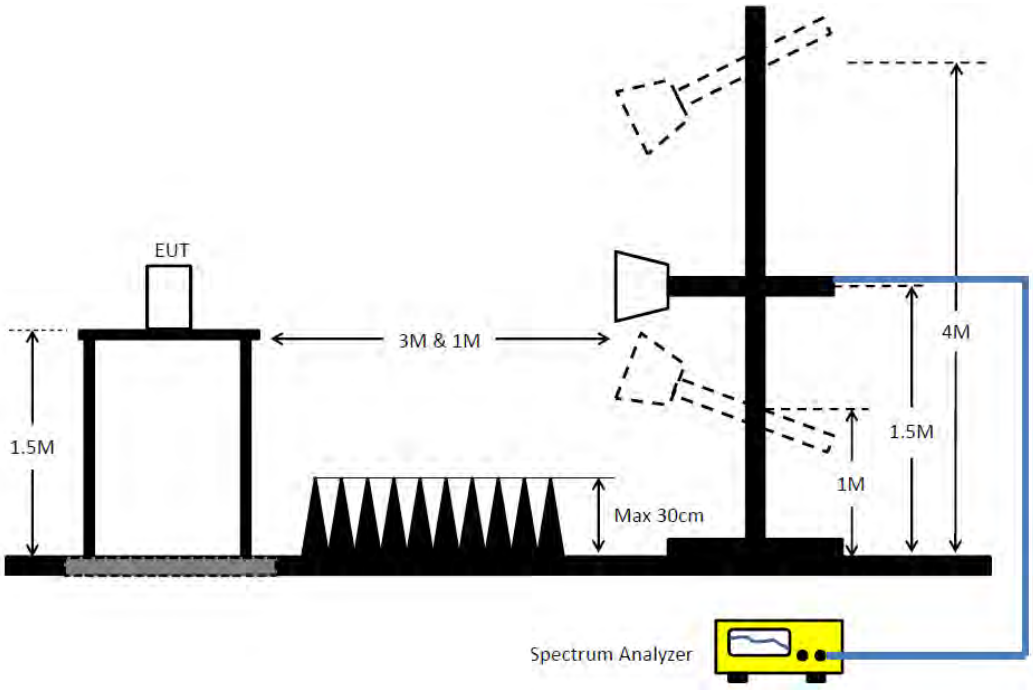
**9kHz ~30MHz**




**30MHz~1GHz**



**Above 1GHz**




### 3.5.5 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.

### 3.5.6 Transmitter Unwanted Emissions (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.

### 3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

# 4 Test Equipment and Calibration Data

| Instrument | Brand | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date | Remark |
|---|---|---|---|---|---|---|---|
| LISN | Schwarzbeck | NSLK 8127 | 8127650 | 9kHz ~ 30MHz | Dec. 04, 2020 | Dec. 03, 2021 | Conduction (CO02-CB) |
| LISN | Schwarzbeck | NSLK 8127 | 8127478 | 9kHz ~ 30MHz | Nov. 20, 2020 | Nov. 19, 2021 | Conduction (CO02-CB) |
| EMI Receiver | Agilent | N9038A | MY52260140 | 9kHz ~ 8.4GHz | Mar. 10, 2020 | Mar. 09, 2021 | Conduction (CO02-CB) |
| COND Cable | Woken | Cable | 2 | 0.15MHz ~ 30MHz | Oct. 20, 2020 | Oct. 19, 2021 | Conduction (CO02-CB) |
| Pulse Limiter | Schwarzbeck | VTSD 9561F-N | 00378 | 9kHz ~ 30MHz | Mar. 19, 2020 | Mar. 18, 2021 | Conduction (CO02-CB) |
| Software | SPORTON | SENSE | V5.10 | - | N.C.R. | N.C.R. | Conduction (CO02-CB) |
| Loop Antenna | Teseq | HLA 6120 | 24155 | 9kHz - 30 MHz | Apr. 13, 2020 | Apr. 12, 2021 | Radiation (03CH01-CB) |
| 3m Semi Anechoic Chamber NSA | TDK | SAC-3M | 03CH01-CB | 30 MHz ~ 1 GHz | Jan. 28, 2020 | Jan. 27, 2021 | Radiation (03CH01-CB) |
| 3m Semi Anechoic Chamber NSA | TDK | SAC-3M | 03CH01-CB | 30 MHz ~ 1 GHz | Jan. 26, 2021 | Jan. 25, 2022 | Radiation (03CH01-CB) |
| BILOG ANTENNA with 6dB Attenuator | TESEQ & EMCI | CBL6112D N-6-06 | 37880 & AT-N0609 | 20MHz ~ 2GHz | Feb. 28, 2020 | Feb. 27, 2021 | Radiation (03CH01-CB) |
| BILOG ANTENNA with 6dB Attenuator | TESEQ & EMCI | CBL6112D N-6-06 | 37880 & AT-N0609 | 20MHz ~ 2GHz | Feb. 22, 2021 | Feb. 21, 2022 | Radiation (03CH01-CB) |
| Preamplifier | EMCI | EMC330N | 980332 | 20MHz ~ 3GHz | Jul. 03, 2020 | Jun. 02, 2021 | Radiation (03CH01-CB) |
| Spectrum Analyzer | R&S | FSP40 | 100056 | 9kHz ~ 40GHz | Apr. 16, 2020 | Apr. 15, 2021 | Radiation (03CH01-CB) |
| Signal Analyzer | R&S | FSV40 | 101903 | 9kHz ~ 40GHz | Mar. 22, 2021 | Mar. 21, 2022 | Radiation (03CH01-CB) |
| EMI Test Receiver | R&S | ESCS | 826547/017 | 9kHz ~ 2.75GHz | May 13, 2020 | May 12, 2021 | Radiation (03CH01-CB) |
| RF Cable-low | Woken | RG402 | Low Cable-16+17 | 30 MHz ~ 1 GHz | Oct. 05, 2020 | Oct. 04, 2021 | Radiation (03CH01-CB) |
| Test Software | SPORTON | SENSE | V5.10 | - | N.C.R. | N.C.R. | Radiation (03CH01-CB) |
| 3m Semi Anechoic Chamber VSWR | RIKEN | SAC-3M | 03CH02-CB | 1GHz ~18GHz 3m | Mar. 28, 2020 | Mar. 27, 2021 | Radiation (03CH02-CB) |

| Instrument | Brand | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date | Remark |
|---|---|---|---|---|---|---|---|
| 3m Semi Anechoic Chamber VSWR | RIKEN | SAC-3M | 03CH02-CB | 1GHz ~18GHz 3m | Mar. 27, 2021 | Mar. 26, 2022 | Radiation (03CH02-CB) |
| Horn Antenna | EMCO | 3115 | 9610-4976 | 1GHz ~ 18GHz | Apr. 21, 2020 | Apr. 20, 2021 | Radiation (03CH02-CB) |
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | BBHA 9120 D 1370 | 1GHz~18GHz | Sep. 21, 2020 | Sep. 20, 2021 | Radiation (03CH02-CB) |
| Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170252 | 15GHz ~ 40GHz | Jul. 21, 2020 | Jul. 20, 2021 | Radiation (03CH02-CB) |
| Pre-Amplifier | Agilent | 83017A | MY39501305 | 1GHz ~ 26.5GHz | Jul. 13, 2020 | Jul. 12, 2021 | Radiation (03CH02-CB) |
| Pre-Amplifier | MITEQ | TTA1840-35-HG | 1864479 | 18GHz ~ 40GHz | Jul. 08, 2020 | Jul. 07, 2021 | Radiation (03CH02-CB) |
| Spectrum analyzer | R&S | FSU | 100015 | 9kHz~26GHz | Oct. 15, 2020 | Oct. 14, 2021 | Radiation (03CH02-CB) |
| RF Cable-high | Woken | RG402 | High Cable-18 | 1GHz ~ 18GHz | Oct. 05, 2020 | Oct. 04, 2021 | Radiation (03CH02-CB) |
| RF Cable-high | Woken | RG402 | High Cable-18+19 | 1GHz ~ 18GHz | Oct. 05, 2020 | Oct. 04, 2021 | Radiation (03CH02-CB) |
| RF Cable-high | Woken | RG402 | High Cable-40G#1 | 18GHz ~ 40 GHz | Jul. 16, 2020 | Jul. 15, 2021 | Radiation (03CH02-CB) |
| RF Cable-high | Woken | RG402 | High Cable-40G#2 | 18GHz ~ 40 GHz | Jul. 16, 2020 | Jul. 15, 2021 | Radiation (03CH02-CB) |
| Test Software | SPORTON | SENSE | V5.10 | - | N.C.R. | N.C.R. | Radiation (03CH02-CB) |
| 3m Semi Anechoic Chamber VSWR | TDK | SAC-3M | 03CH03-CB | 1GHz ~18GHz 3m | May 28, 2020 | May 27, 2021 | Radiation (03CH03-CB) |
| Horn Antenna | COM-POWER | AH-118 | 071028 | 1GHz ~ 18GHz | Jun. 09, 2020 | Jun. 08, 2021 | Radiation (03CH03-CB) |
| Horn Antenna | ETS・Lindgren | 3115 | 6821 | 750MHz~18GHz | Jan. 26, 2021 | Jan. 25, 2022 | Radiation (03CH03-CB) |
| Horn Antenna | COM-POWER | AH-118 | 071028 | 1GHz ~ 18GHz | Jun. 09, 2020 | Jun. 08, 2021 | Radiation (03CH03-CB) |
| Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170252 | 15GHz ~ 40GHz | Jul. 21, 2020 | Jul. 20, 2021 | Radiation (03CH03-CB) |
| Pre-Amplifier | Agilent | 8449B | 3008A02097 | 1GHz ~ 26.5GHz | Jul. 03, 2020 | Jun. 02, 2021 | Radiation (03CH03-CB) |
| Pre-Amplifier | MITEQ | TTA1840-35-HG | 1864479 | 18GHz ~ 40GHz | Jul. 08, 2020 | Jul. 07, 2021 | Radiation (03CH03-CB) |
| Spectrum Analyzer | R&S | FSP40 | 100019 | 9kHz ~ 40GHz | Jun. 09, 2020 | Jun. 08, 2021 | Radiation (03CH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-20+29 | 1GHz ~ 18GHz | Oct. 05, 2020 | Oct. 04, 2021 | Radiation (03CH03-CB) |

| Instrument | Brand | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date | Remark |
|---|---|---|---|---|---|---|---|
| RF Cable-high | Woken | RG402 | High Cable-29 | 1GHz ~ 18GHz | Oct. 05, 2020 | Oct. 04, 2021 | Radiation (03CH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-40G#1 | 18GHz ~ 40 GHz | Jul. 16, 2020 | Jul. 15, 2021 | Radiation (03CH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-40G#2 | 18GHz ~ 40 GHz | Jul. 16, 2020 | Jul. 15, 2021 | Radiation (03CH03-CB) |
| Test Software | SPORTON | SENSE | V5.10 | - | N.C.R. | N.C.R. | Radiation (03CH03-CB) |
| Spectrum analyzer | R&S | FSV40 | 101028 | 9kHz~40GHz | Dec. 31, 2020 | Dec. 30, 2021 | Conducted (TH03-CB) |
| Power Sensor | Anritsu | MA2411B | 1726195 | 300MHz~40GHz | Aug. 17, 2020 | Aug. 16, 2021 | Conducted (TH03-CB) |
| Power Meter | Anritsu | ML2495A | 1035008 | 300MHz~40GHz | Aug. 17, 2020 | Aug. 16, 2021 | Conducted (TH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-11 | 1 GHz –18 GHz | Oct. 05, 2020 | Oct. 04, 2021 | Conducted (TH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-12 | 1 GHz –18 GHz | Oct. 05, 2020 | Oct. 04, 2021 | Conducted (TH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-13 | 1 GHz –18 GHz | Oct. 05, 2020 | Oct. 04, 2021 | Conducted (TH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-14 | 1 GHz –18 GHz | Oct. 05, 2020 | Oct. 04, 2021 | Conducted (TH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-15 | 1 GHz –18 GHz | Oct. 05, 2020 | Oct. 04, 2021 | Conducted (TH03-CB) |
| Test Software | SPORTON | SENSE | V5.10 | - | N.C.R. | N.C.R. | Conducted (TH03-CB) |

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

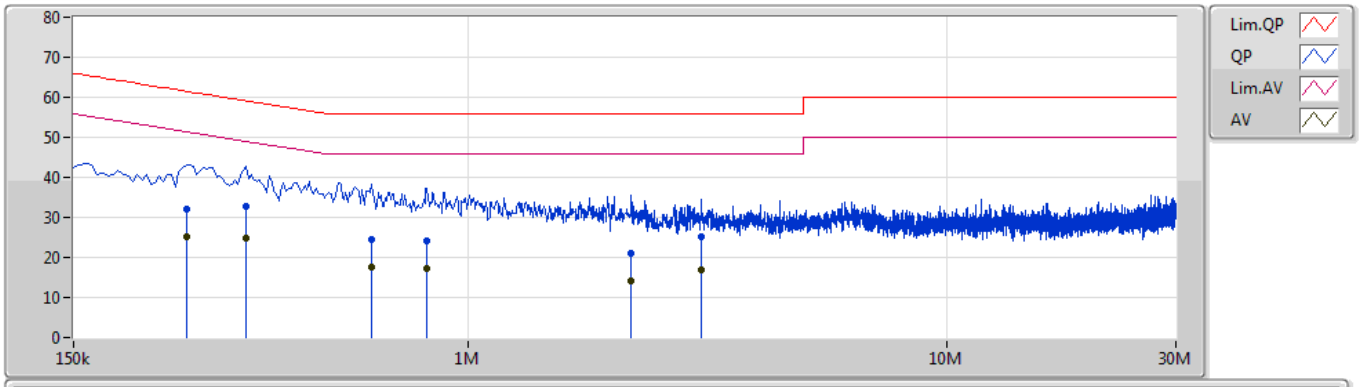
N.C.R. means Non-Calibration required.

Summary

| Mode | Result | Type | Freq (Hz) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Condition |
|---|---|---|---|---|---|---|---|
| Mode 1 | Pass | QP | 27.582M | 35.89 | 60.00 | -24.11 | Neutral |

**Mode 1**

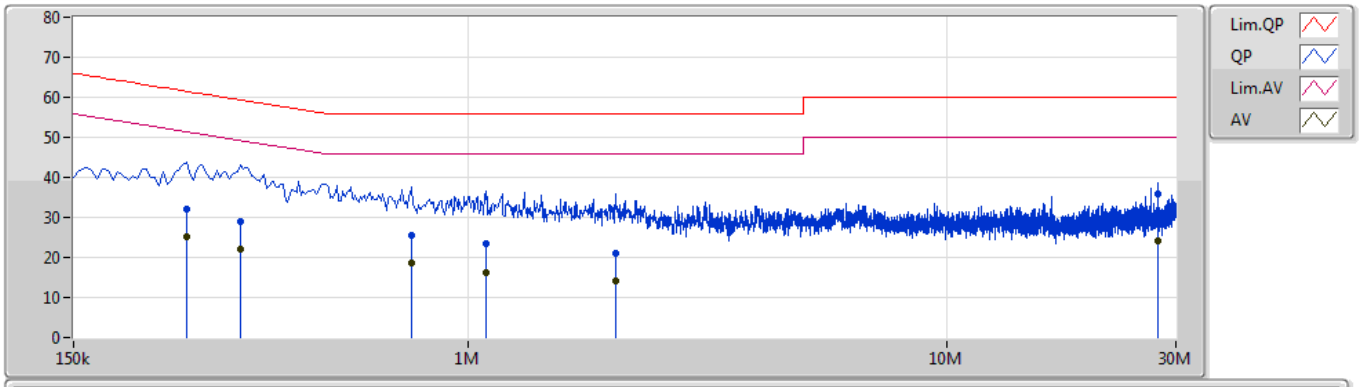
17/12/2020




| Type | Freq | Level | Limit | Margin | Factor | Condition | Comment | Raw | LISN | CL | AT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV) | (dBuV) | (dB) | (dB) | | | (dBuV) | (dB) | (dB) | (dB) |
| QP | 258k | 32.15 | 61.49 | -29.34 | 10.24 | Line | - | 21.91 | 0.03 | 0.07 | 10.14 |
| AV | 258k | 25.21 | 51.49 | -26.28 | 10.24 | Line | - | 14.97 | 0.03 | 0.07 | 10.14 |
| QP | 343.5k | 32.67 | 59.12 | -26.45 | 10.21 | Line | - | 22.46 | 0.03 | 0.06 | 10.12 |
| AV | 343.5k | 24.82 | 49.12 | -24.30 | 10.21 | Line | "Worst" | 14.61 | 0.03 | 0.06 | 10.12 |
| QP | 627k | 24.54 | 56.00 | -31.46 | 10.20 | Line | - | 14.34 | 0.03 | 0.07 | 10.10 |
| AV | 627k | 17.63 | 46.00 | -28.37 | 10.20 | Line | - | 7.43 | 0.03 | 0.07 | 10.10 |
| QP | 820.5k | 24.07 | 56.00 | -31.93 | 10.23 | Line | - | 13.84 | 0.04 | 0.08 | 10.11 |
| AV | 820.5k | 17.30 | 46.00 | -28.70 | 10.23 | Line | - | 7.07 | 0.04 | 0.08 | 10.11 |
| QP | 2.189M | 21.07 | 56.00 | -34.93 | 10.30 | Line | - | 10.77 | 0.06 | 0.11 | 10.13 |
| AV | 2.189M | 14.30 | 46.00 | -31.70 | 10.30 | Line | - | 4.00 | 0.06 | 0.11 | 10.13 |
| QP | 3.066M | 25.21 | 56.00 | -30.79 | 10.34 | Line | - | 14.87 | 0.08 | 0.12 | 10.14 |
| AV | 3.066M | 16.78 | 46.00 | -29.22 | 10.34 | Line | - | 6.44 | 0.08 | 0.12 | 10.14 |

## Mode 1

17/12/2020




| Type | Freq | Level | Limit | Margin | Factor | Condition | Comment | Raw | LISN | CL | AT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV) | (dBuV) | (dB) | (dB) | | | (dBuV) | (dB) | (dB) | (dB) |
| QP | 258k | 31.93 | 61.49 | -29.56 | 10.26 | Neutral | - | 21.67 | 0.05 | 0.07 | 10.14 |
| AV | 258k | 25.15 | 51.49 | -26.34 | 10.26 | Neutral | - | 14.89 | 0.05 | 0.07 | 10.14 |
| QP | 334.5k | 29.13 | 59.35 | -30.22 | 10.23 | Neutral | - | 18.90 | 0.05 | 0.06 | 10.12 |
| AV | 334.5k | 22.18 | 49.35 | -27.17 | 10.23 | Neutral | - | 11.95 | 0.05 | 0.06 | 10.12 |
| QP | 762k | 25.44 | 56.00 | -30.56 | 10.24 | Neutral | - | 15.20 | 0.06 | 0.07 | 10.11 |
| AV | 762k | 18.64 | 46.00 | -27.36 | 10.24 | Neutral | - | 8.40 | 0.06 | 0.07 | 10.11 |
| QP | 1.086M | 23.37 | 56.00 | -32.63 | 10.25 | Neutral | - | 13.12 | 0.06 | 0.08 | 10.11 |
| AV | 1.086M | 16.36 | 46.00 | -29.64 | 10.25 | Neutral | - | 6.11 | 0.06 | 0.08 | 10.11 |
| QP | 2.031M | 21.11 | 56.00 | -34.89 | 10.31 | Neutral | - | 10.80 | 0.08 | 0.10 | 10.13 |
| AV | 2.031M | 14.28 | 46.00 | -31.72 | 10.31 | Neutral | - | 3.97 | 0.08 | 0.10 | 10.13 |
| QP | 27.582M | 35.89 | 60.00 | -24.11 | 10.78 | Neutral | "Worst" | 25.11 | 0.29 | 0.29 | 10.20 |
| AV | 27.582M | 24.27 | 50.00 | -25.73 | 10.78 | Neutral | - | 13.49 | 0.29 | 0.29 | 10.20 |

## Summary

| Mode | Max-N dB (Hz) | Max-OBW (Hz) | ITU-Code | Min-N dB (Hz) | Min-OBW (Hz) |
|---|---|---|---|---|---|
| 5.15-5.25GHz | - | - | - | - | - |
| 802.11a_Nss1,(6Mbps)_2TX | 30.69M | 17.511M | 17M5D1D | 20.25M | 16.372M |
| 5.725-5.85GHz | - | - | - | - | - |
| 802.11a_Nss1,(6Mbps)_2TX | 16.29M | 16.672M | 16M7D1D | 15.54M | 16.492M |

**Max-N dB** = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
**Max-OBW** = Maximum99% occupied bandwidth;
**Min-N dB** = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
**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) |
|---|---|---|---|---|---|---|
| 802.11a_Nss1,(6Mbps)_2TX | - | - | - | - | - | - |
| 5180MHz | Pass | Inf | 20.61M | 16.372M | 20.25M | 16.372M |
| 5200MHz | Pass | Inf | 28.23M | 16.852M | 21M | 16.402M |
| 5240MHz | Pass | Inf | 30.69M | 17.511M | 24.27M | 16.582M |
| 5745MHz | Pass | 500k | 16.29M | 16.492M | 15.99M | 16.522M |
| 5785MHz | Pass | 500k | 16.26M | 16.612M | 15.99M | 16.642M |
| 5825MHz | Pass | 500k | 16.02M | 16.672M | 15.54M | 16.642M |

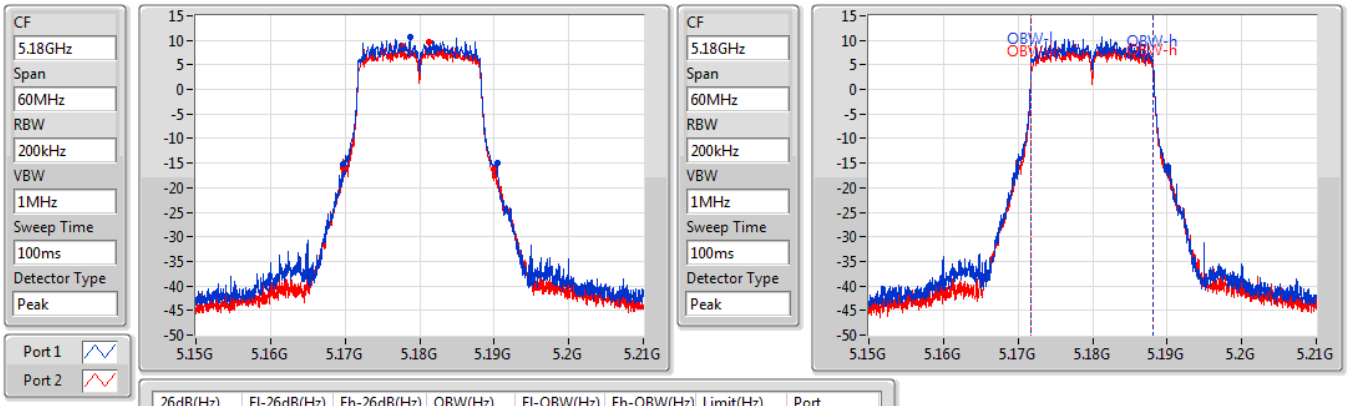
**Port X-N dB** = Port **X** 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
**Port X-OBW** = Port **X** 99% occupied bandwidth;

## 802.11a_Nss1,(6Mbps)_2TX

## EBW

### 5180MHz

14/01/2021



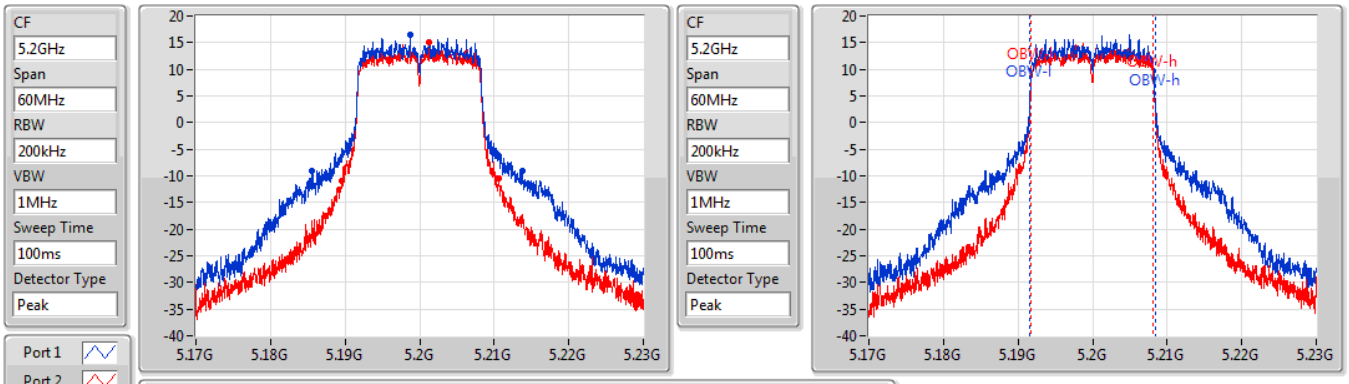

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 20.61M | 5.16977G | 5.19038G | 16.372M | 5.171784G | 5.188156G | Inf | 1 |
| 20.25M | 5.16971G | 5.18996G | 16.372M | 5.171784G | 5.188156G | Inf | 2 |

## 802.11a_Nss1,(6Mbps)_2TX

## EBW

### 5200MHz

14/01/2021



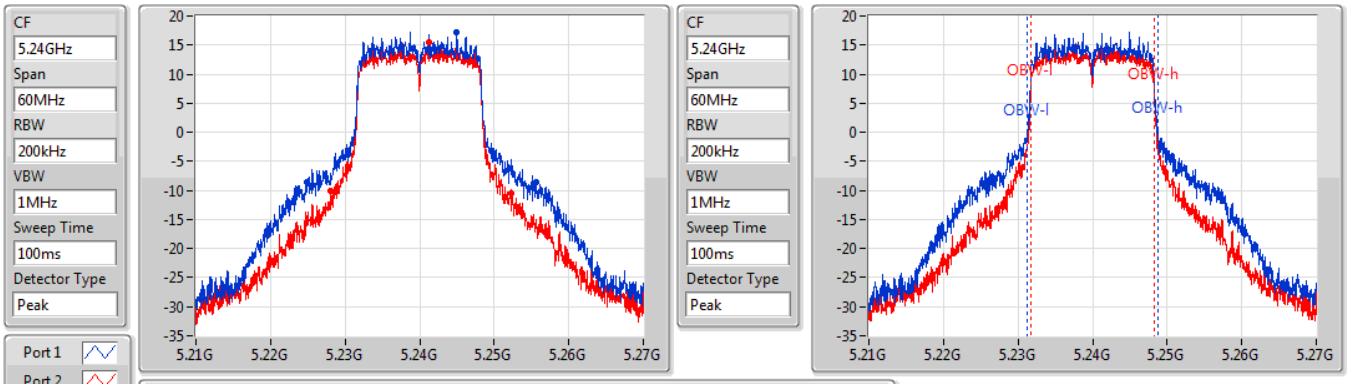

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 28.23M | 5.18554G | 5.21377G | 16.852M | 5.191604G | 5.208456G | Inf | 1 |
| 21M | 5.18959G | 5.21059G | 16.402M | 5.191784G | 5.208186G | Inf | 2 |

## 802.11a_Nss1,(6Mbps)_2TX

## EBW

### 5240MHz

14/01/2021



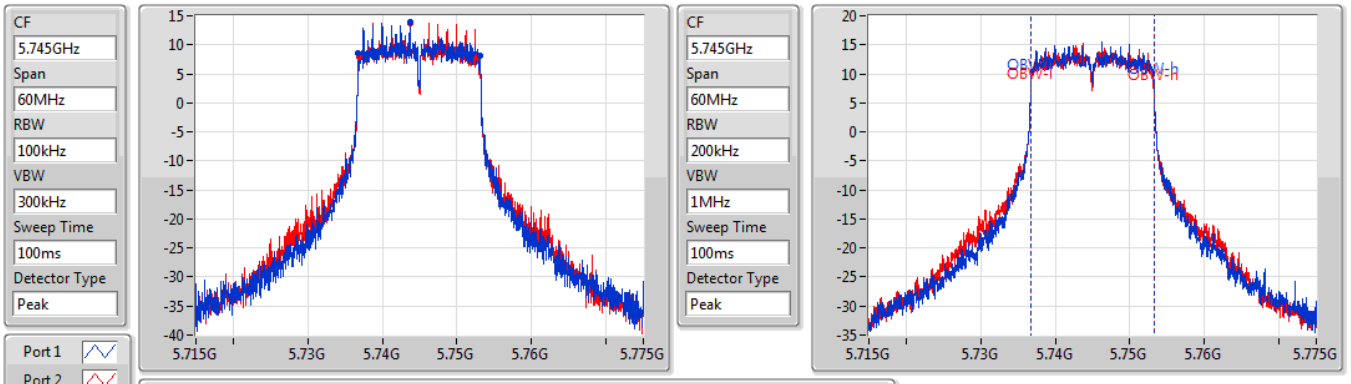

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 30.69M | 5.22491G | 5.2556G | 17.511M | 5.231274G | 5.248786G | Inf | 1 |
| 24.27M | 5.22809G | 5.25236G | 16.582M | 5.231694G | 5.248276G | Inf | 2 |

## 802.11a_Nss1,(6Mbps)_2TX

## EBW

### 5745MHz

14/01/2021



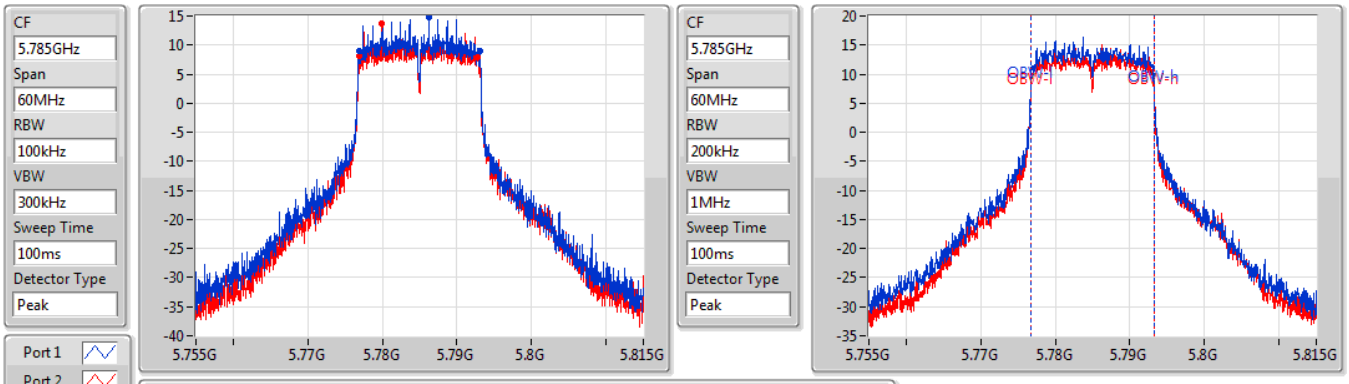

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 16.29M | 5.73681G | 5.7531G | 16.492M | 5.736724G | 5.753216G | 500k | 1 |
| 15.99M | 5.73684G | 5.75283G | 16.522M | 5.736694G | 5.753216G | 500k | 2 |

## 802.11a_Nss1,(6Mbps)_2TX

## EBW

### 5785MHz

14/01/2021



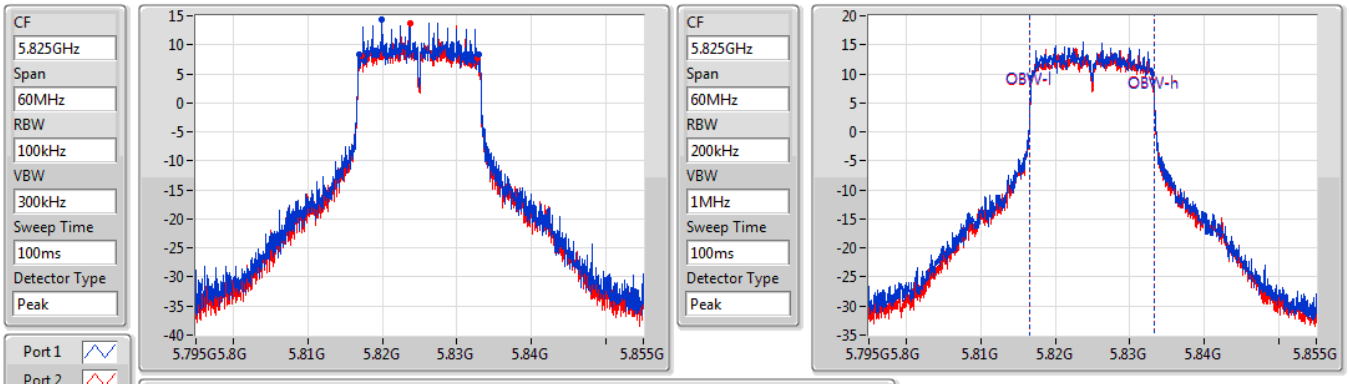

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 16.26M | 5.77684G | 5.7931G | 16.612M | 5.776664G | 5.793276G | 500k | 1 |
| 15.99M | 5.77684G | 5.79283G | 16.642M | 5.776664G | 5.793306G | 500k | 2 |

## 802.11a_Nss1,(6Mbps)_2TX

## EBW

### 5825MHz

14/01/2021




| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 16.02M | 5.81684G | 5.83286G | 16.672M | 5.816634G | 5.833306G | 500k | 1 |
| 15.54M | 5.8172G | 5.83274G | 16.642M | 5.816634G | 5.833276G | 500k | 2 |

## Summary

| Mode | Max-N dB (Hz) | Max-OBW (Hz) | ITU-Code | Min-N dB (Hz) | Min-OBW (Hz) |
|---|---|---|---|---|---|
| 5.15-5.25GHz | - | - | - | - | - |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | 23.25M | 18.951M | 19M0D1D | 21.54M | 18.891M |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | 40.92M | 37.781M | 37M8D1D | 40.32M | 37.601M |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | 81.72M | 76.882M | 76M9D1D | 81.12M | 76.762M |
| 5.725-5.85GHz | - | - | - | - | - |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | 18.57M | 19.1M | 19M1D1D | 17.43M | 18.891M |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | 37.68M | 37.781M | 37M8D1D | 35.04M | 37.781M |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | 72.6M | 77.241M | 77M2D1D | 63.12M | 76.882M |

**Max-N dB** = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
**Max-OBW** = Maximum99% occupied bandwidth;
**Min-N dB** = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
**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) |
|---|---|---|---|---|---|---|
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5180MHz | Pass | Inf | 21.66M | 18.921M | 21.66M | 18.921M |
| 5200MHz | Pass | Inf | 23.25M | 18.951M | 22.5M | 18.921M |
| 5240MHz | Pass | Inf | 21.63M | 18.891M | 21.54M | 18.891M |
| 5745MHz | Pass | 500k | 17.85M | 18.891M | 17.7M | 18.921M |
| 5785MHz | Pass | 500k | 17.97M | 18.891M | 18.57M | 18.891M |
| 5825MHz | Pass | 500k | 18M | 19.1M | 17.43M | 19.07M |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5190MHz | Pass | Inf | 40.56M | 37.721M | 40.32M | 37.601M |
| 5230MHz | Pass | Inf | 40.5M | 37.721M | 40.92M | 37.781M |
| 5755MHz | Pass | 500k | 35.04M | 37.781M | 36.72M | 37.781M |
| 5795MHz | Pass | 500k | 37.68M | 37.781M | 37.02M | 37.781M |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5210MHz | Pass | Inf | 81.72M | 76.762M | 81.12M | 76.882M |
| 5775MHz | Pass | 500k | 72.6M | 77.241M | 63.12M | 76.882M |

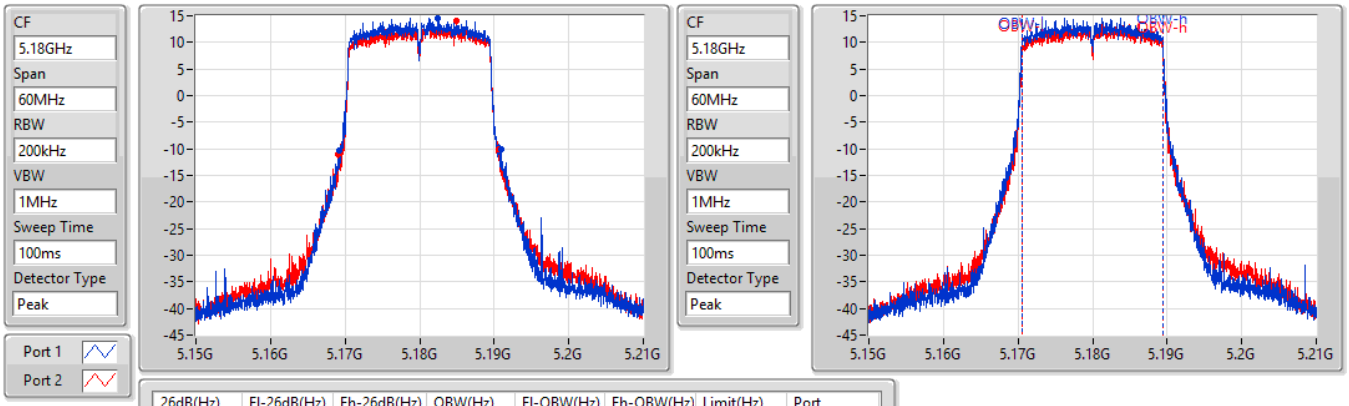
**Port X-N dB** = Port **X** 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
**Port X-OBW** = Port **X** 99% occupied bandwidth;

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## EBW

### 5180MHz

21/04/2021



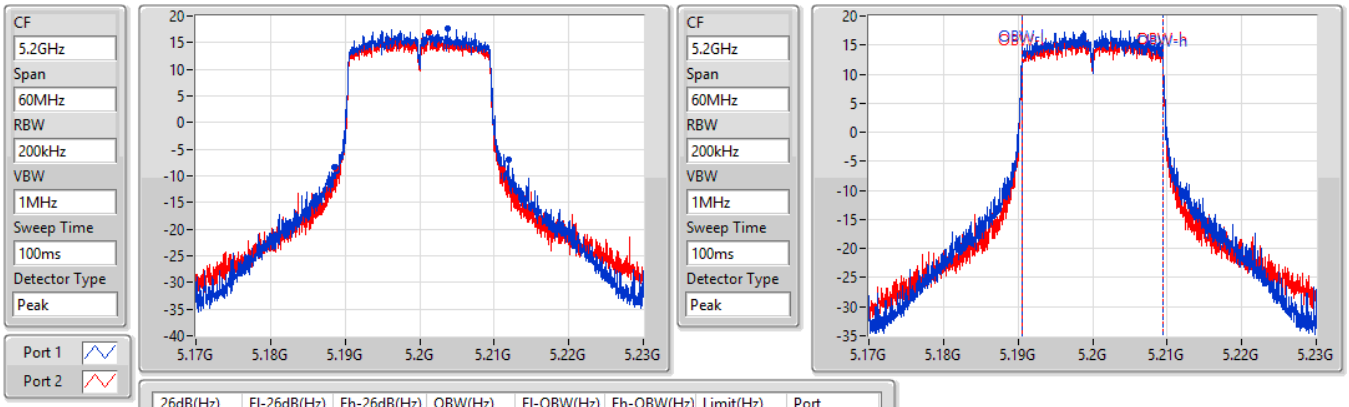

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 21.66M | 5.16926G | 5.19092G | 18.921M | 5.170495G | 5.189415G | Inf | 1 |
| 21.66M | 5.16902G | 5.19068G | 18.921M | 5.170525G | 5.189445G | Inf | 2 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## EBW

### 5200MHz

21/04/2021

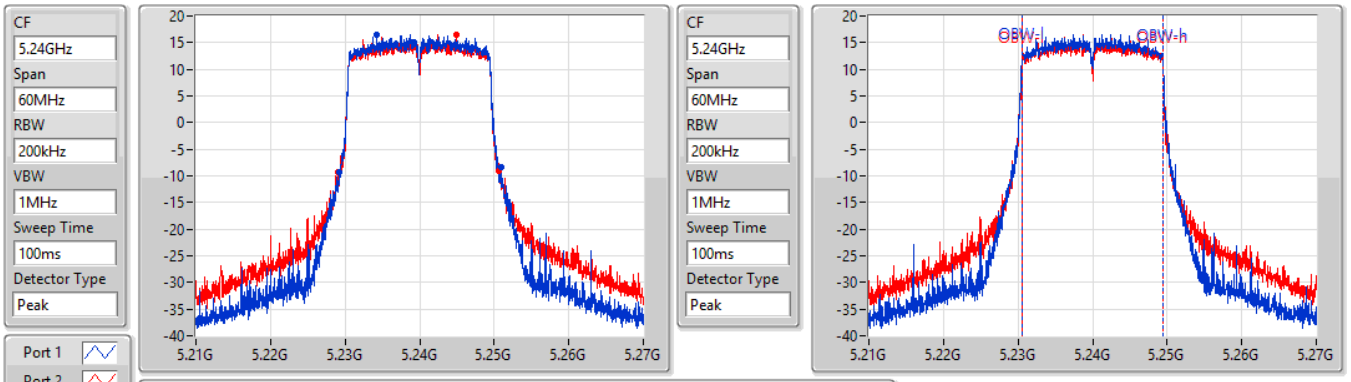



| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 23.25M | 5.18863G | 5.21188G | 18.951M | 5.190525G | 5.209475G | Inf | 1 |
| 22.5M | 5.18866G | 5.21116G | 18.921M | 5.190525G | 5.209445G | Inf | 2 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

### 5240MHz

21/04/2021

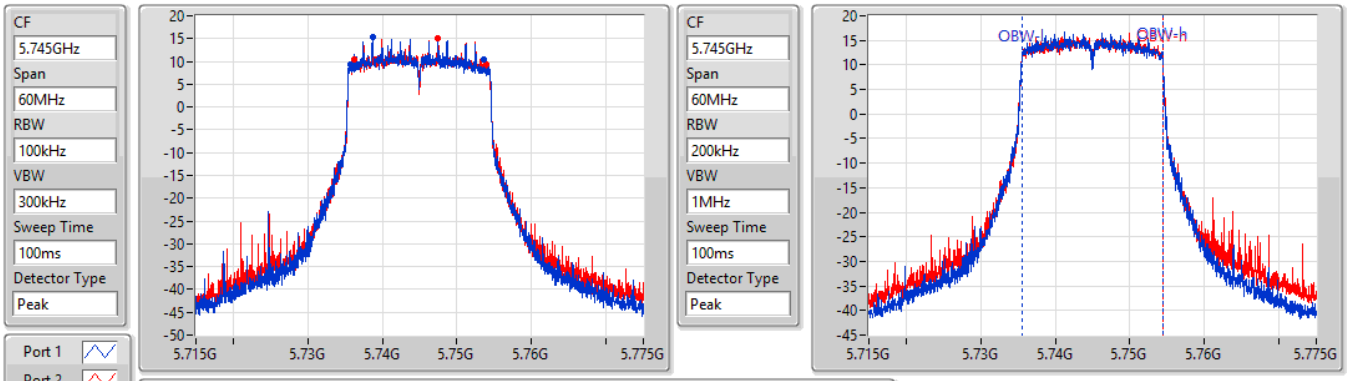



| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 21.63M | 5.22926G | 5.25089G | 18.891M | 5.230525G | 5.249415G | Inf | 1 |
| 21.54M | 5.22911G | 5.25065G | 18.891M | 5.230525G | 5.249415G | Inf | 2 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

### 5745MHz

21/04/2021



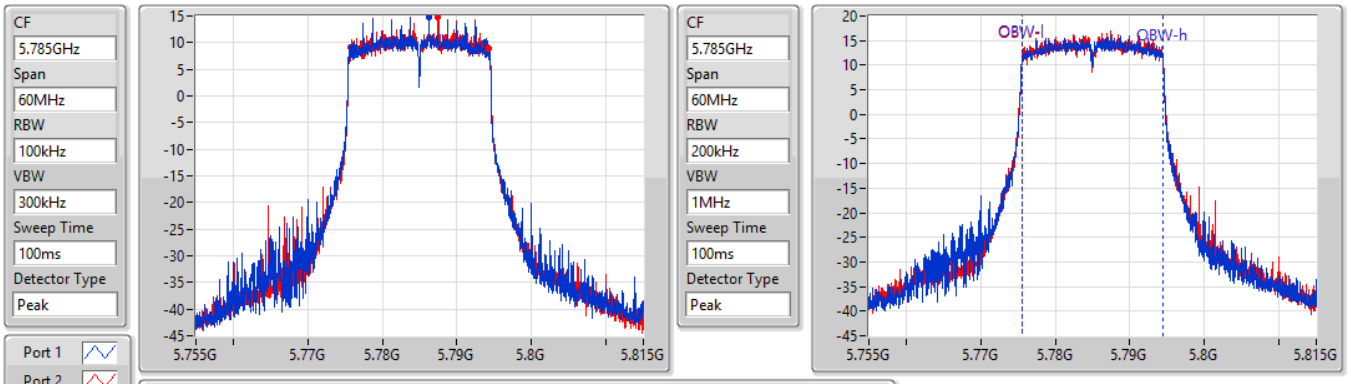

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 17.85M | 5.73579G | 5.75364G | 18.891M | 5.735495G | 5.754385G | 500k | 1 |
| 17.7M | 5.73624G | 5.75394G | 18.921M | 5.735495G | 5.754415G | 500k | 2 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## EBW

### 5785MHz

21/04/2021



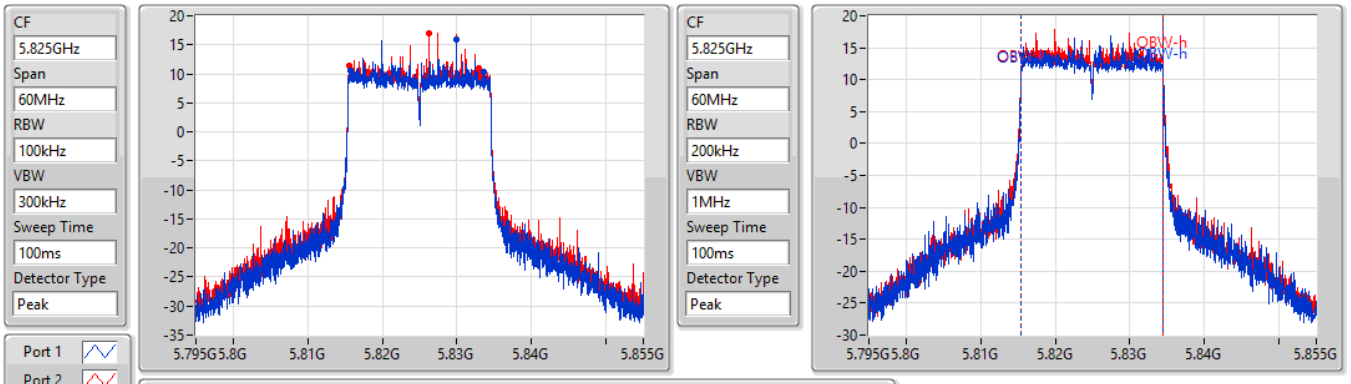

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 17.97M | 5.77582G | 5.79379G | 18.891M | 5.775525G | 5.794415G | 500k | 1 |
| 18.57M | 5.77573G | 5.7943G | 18.891M | 5.7755555G | 5.794445G | 500k | 2 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## EBW

### 5825MHz

21/04/2021

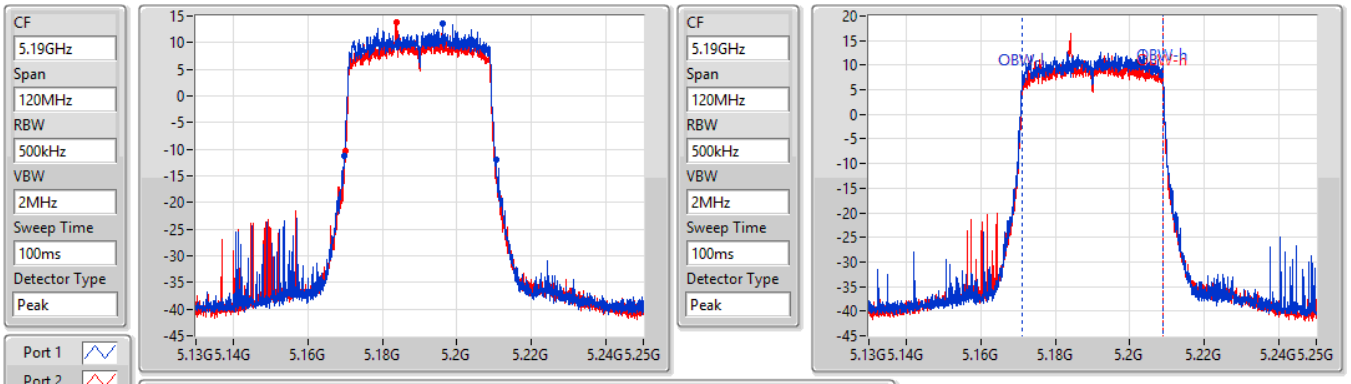



| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 18M | 5.81567G | 5.83367G | 19.1M | 5.815405G | 5.834505G | 500k | 1 |
| 17.43M | 5.81558G | 5.83301G | 19.07M | 5.815405G | 5.834475G | 500k | 2 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX EBW

### 5190MHz

21/04/2021

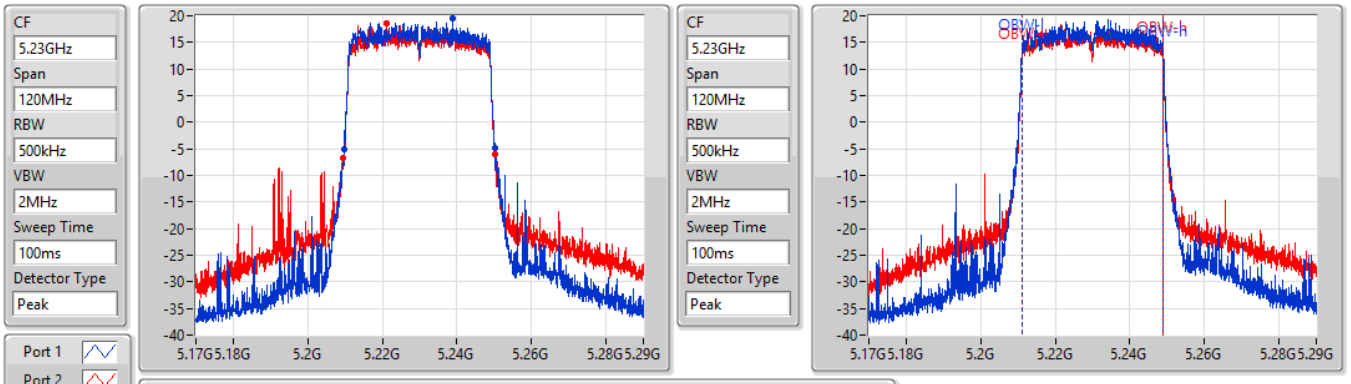



| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 40.56M | 5.16984G | 5.2104G | 37.721M | 5.171169G | 5.208891G | Inf | 1 |
| 40.32M | 5.17008G | 5.2104G | 37.601M | 5.171169G | 5.208771G | Inf | 2 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX EBW

### 5230MHz

21/04/2021



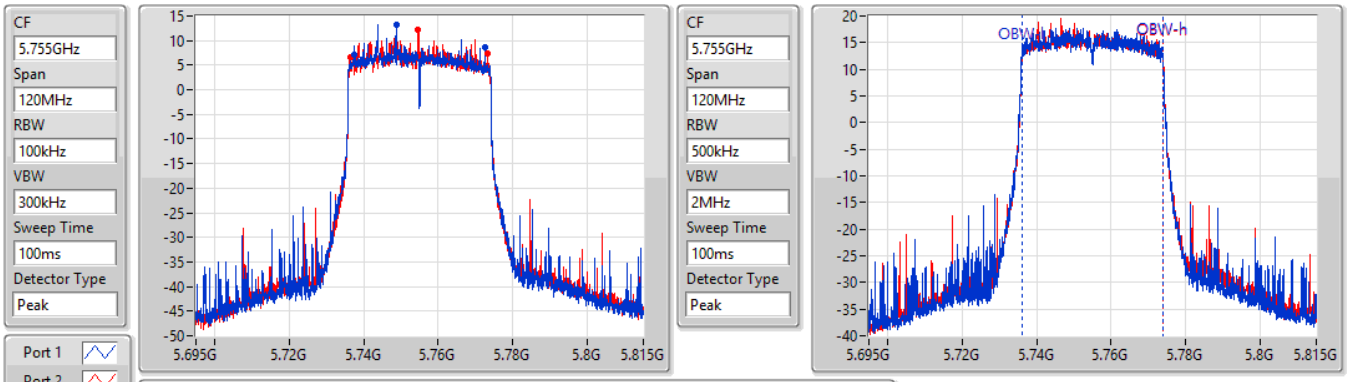

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 40.5M | 5.20972G | 5.25022G | 37.721M | 5.211109G | 5.248831G | Inf | 1 |
| 40.92M | 5.2093G | 5.25022G | 37.781M | 5.211109G | 5.248891G | Inf | 2 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## EBW

### 5755MHz

21/04/2021



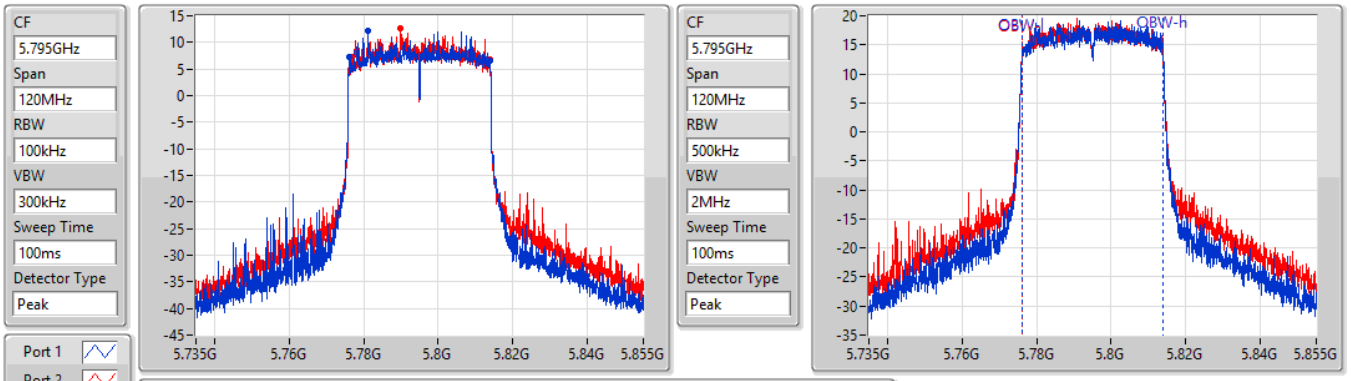

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 35.04M | 5.73742G | 5.77246G | 37.781M | 5.736049G | 5.773831G | 500k | 1 |
| 36.72M | 5.73652G | 5.77324G | 37.781M | 5.736109G | 5.773891G | 500k | 2 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## EBW

### 5795MHz

21/04/2021

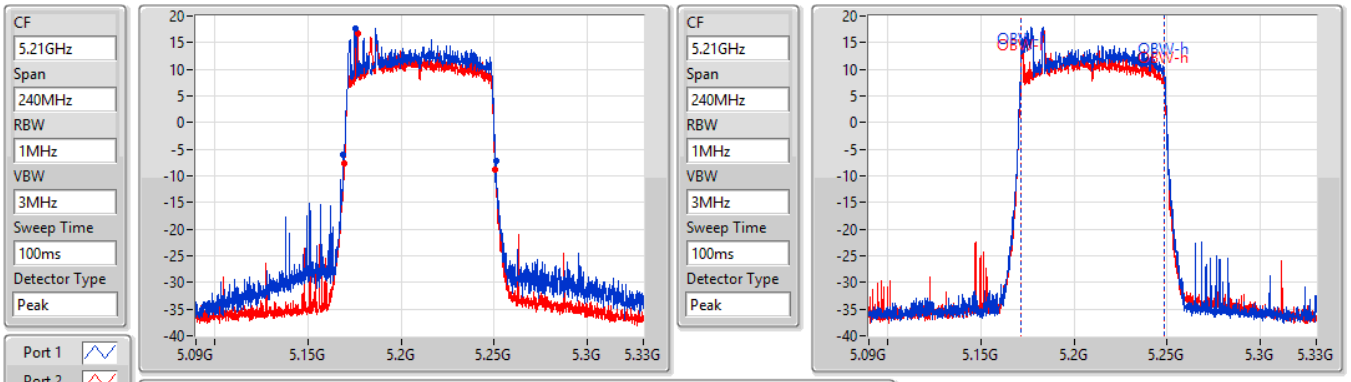



| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 37.68M | 5.77622G | 5.8139G | 37.781M | 5.776109G | 5.813891G | 500k | 1 |
| 37.02M | 5.77676G | 5.81378G | 37.781M | 5.776109G | 5.813891G | 500k | 2 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX EBW

### 5210MHz

21/04/2021

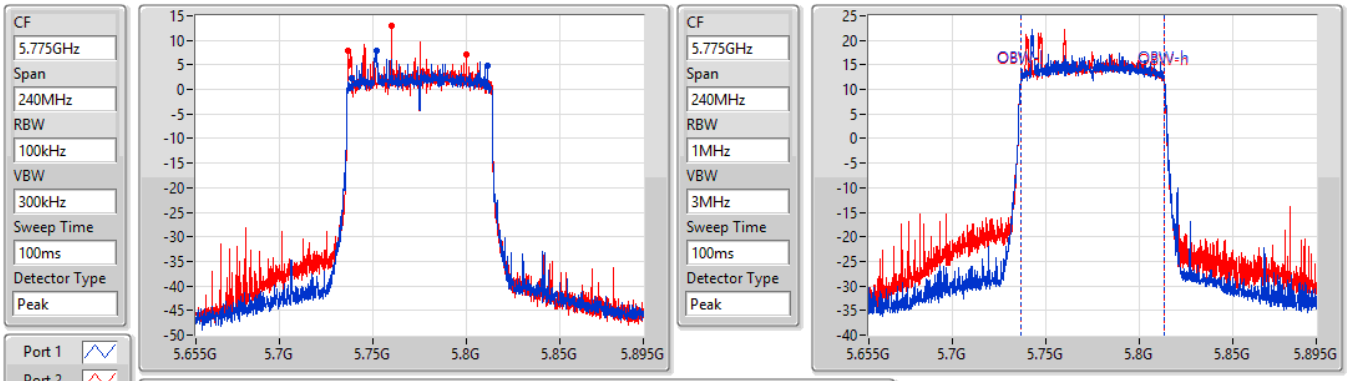



| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 81.72M | 5.1692G | 5.25092G | 76.762M | 5.171619G | 5.248381G | Inf | 1 |
| 81.12M | 5.16956G | 5.25068G | 76.882M | 5.171619G | 5.248501G | Inf | 2 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX EBW

### 5775MHz

21/04/2021




| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 72.6M | 5.73864G | 5.81124G | 77.241M | 5.736379G | 5.813621G | 500k | 1 |
| 63.12M | 5.73684G | 5.79996G | 76.882M | 5.736499G | 5.813381G | 500k | 2 |

**Summary**

| Mode | Total Power (dBm) | Total Power (W) |
|---|---|---|
| 5.15-5.25GHz | - | - |
| 802.11a_Nss1,(6Mbps)_2TX | 29.12 | 0.81658 |
| 5.725-5.85GHz | - | - |
| 802.11a_Nss1,(6Mbps)_2TX | 28.55 | 0.71614 |

**Result**

| Mode | Result | DG (dBi) | Port 1 (dBm) | Port 2 (dBm) | Total Power (dBm) | Power Limit (dBm) |
|---|---|---|---|---|---|---|
| 802.11a_Nss1,(6Mbps)_2TX | - | - | - | - | - | - |
| 5180MHz | Pass | 3.48 | 20.81 | 19.67 | 23.29 | 30.00 |
| 5200MHz | Pass | 3.48 | 26.24 | 24.98 | 28.67 | 30.00 |
| 5240MHz | Pass | 3.48 | 26.58 | 25.58 | 29.12 | 30.00 |
| 5745MHz | Pass | 3.48 | 25.29 | 25.11 | 28.21 | 30.00 |
| 5785MHz | Pass | 3.48 | 26.06 | 24.94 | 28.55 | 30.00 |
| 5825MHz | Pass | 3.48 | 25.16 | 24.76 | 27.97 | 30.00 |

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

**Summary**

| Mode | Total Power (dBm) | Total Power (W) |
|---|---|---|
| 5.15-5.25GHz | - | - |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | 28.61 | 0.72611 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | 27.51 | 0.56364 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | 22.86 | 0.19320 |
| 5.725-5.85GHz | - | - |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | 27.80 | 0.60256 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | 28.25 | 0.66834 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | 25.87 | 0.38637 |

**Result**

| Mode | Result | DG (dBi) | Port 1 (dBm) | Port 2 (dBm) | Total Power (dBm) | Power Limit (dBm) |
|---|---|---|---|---|---|---|
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5180MHz | Pass | 6.46 | 23.30 | 22.03 | 25.72 | 29.54 |
| 5200MHz | Pass | 6.46 | 26.14 | 24.98 | 28.61 | 29.54 |
| 5240MHz | Pass | 6.46 | 25.43 | 24.52 | 28.01 | 29.54 |
| 5745MHz | Pass | 6.46 | 24.78 | 24.79 | 27.80 | 29.54 |
| 5785MHz | Pass | 6.46 | 24.49 | 24.52 | 27.52 | 29.54 |
| 5825MHz | Pass | 6.46 | 24.45 | 24.49 | 27.48 | 29.54 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5190MHz | Pass | 6.46 | 18.77 | 17.53 | 21.20 | 29.54 |
| 5230MHz | Pass | 6.46 | 24.86 | 24.11 | 27.51 | 29.54 |
| 5755MHz | Pass | 6.46 | 24.07 | 23.91 | 27.00 | 29.54 |
| 5795MHz | Pass | 6.46 | 25.11 | 25.36 | 28.25 | 29.54 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5210MHz | Pass | 6.46 | 20.36 | 19.27 | 22.86 | 29.54 |
| 5775MHz | Pass | 6.46 | 22.92 | 22.80 | 25.87 | 29.54 |

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

**Summary**

| Mode | PD (dBm/RBW) |
|---|---|
| 5.15-5.25GHz | - |
| 802.11a_Nss1,(6Mbps)_2TX | 15.85 |
| 5.725-5.85GHz | - |
| 802.11a_Nss1,(6Mbps)_2TX | 13.45 |

**RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

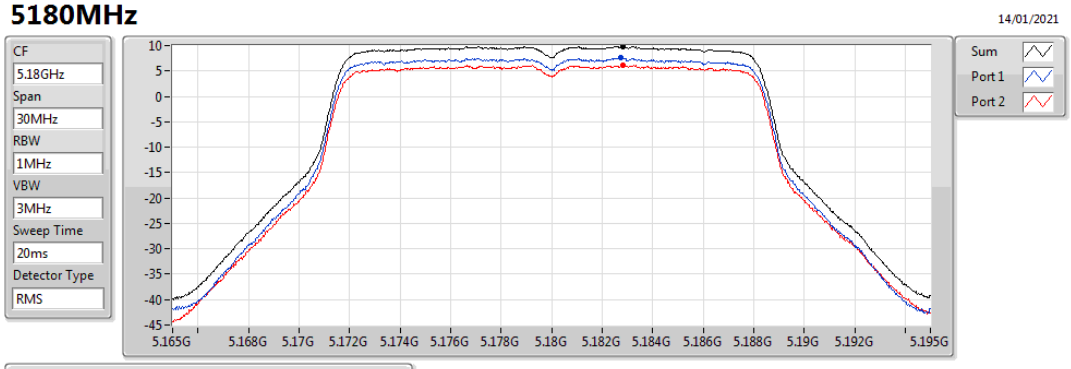
**Result**

| Mode | Result | DG (dBi) | Port 1 (dBm/RBW) | Port 2 (dBm/RBW) | PD (dBm/RBW) | PD Limit (dBm/RBW) |
|---|---|---|---|---|---|---|
| 802.11a_Nss1,(6Mbps)_2TX | - | - | - | - | - | - |
| 5180MHz | Pass | 6.46 | 7.56 | 6.20 | 9.83 | 16.54 |
| 5200MHz | Pass | 6.46 | 12.86 | 11.61 | 15.23 | 16.54 |
| 5240MHz | Pass | 6.46 | 13.49 | 12.21 | 15.85 | 16.54 |
| 5745MHz | Pass | 6.46 | 10.45 | 10.03 | 13.14 | 29.54 |
| 5785MHz | Pass | 6.46 | 11.12 | 9.90 | 13.45 | 29.54 |
| 5825MHz | Pass | 6.46 | 10.18 | 9.62 | 12.87 | 29.54 |

**DG** = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;
**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

## 802.11a_Nss1,(6Mbps)_2TX PSD

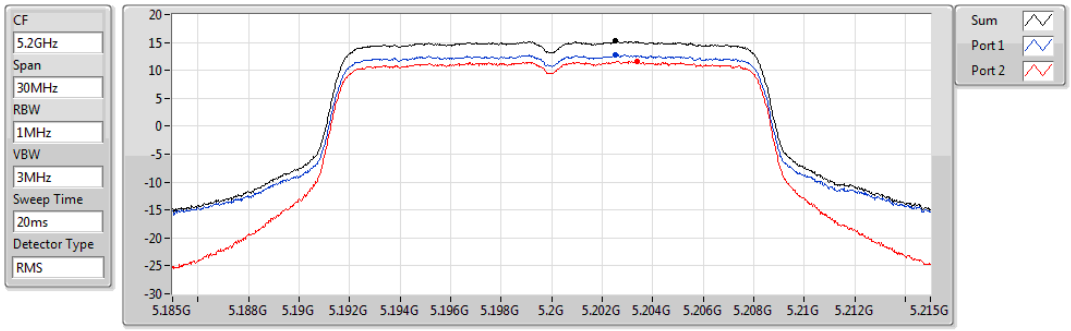
### 5180MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 9.83 | 9.83 | 7.56 | 6.20 |

## 802.11a_Nss1,(6Mbps)_2TX PSD

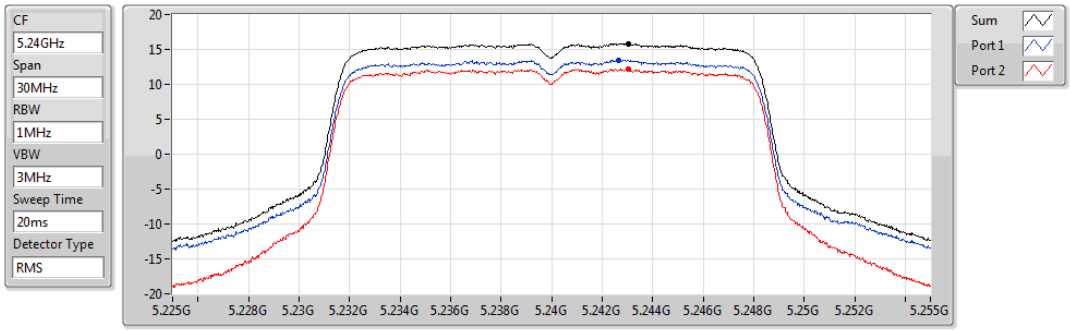
### 5200MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 15.23 | 15.23 | 12.86 | 11.61 |

## 802.11a_Nss1,(6Mbps)_2TX PSD

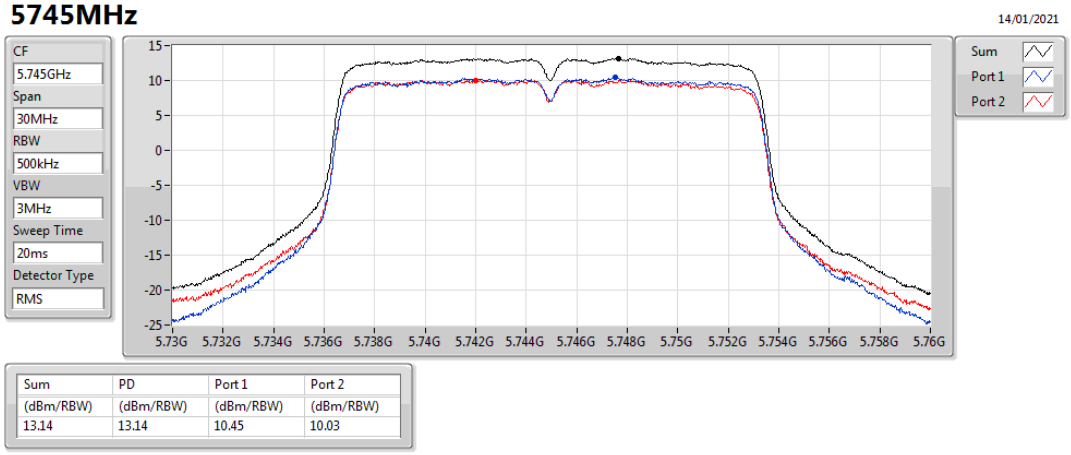
### 5240MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 15.85 | 15.85 | 13.49 | 12.21 |

## 802.11a_Nss1,(6Mbps)_2TX PSD

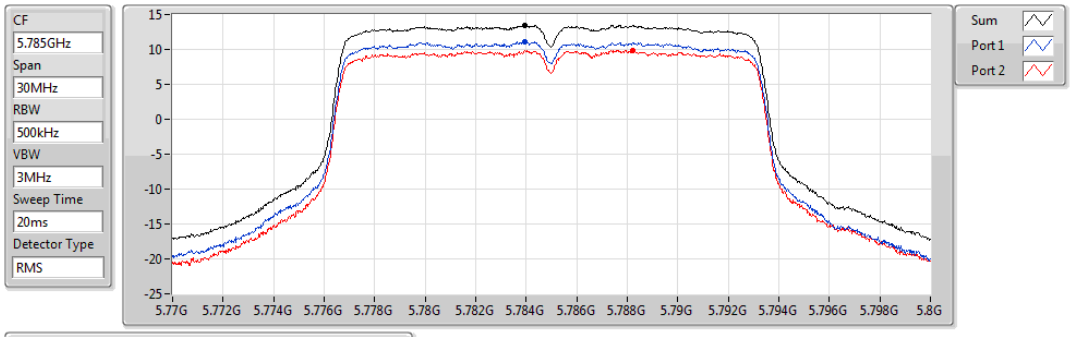
### 5745MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 13.14 | 13.14 | 10.45 | 10.03 |

## 802.11a_Nss1,(6Mbps)_2TX PSD

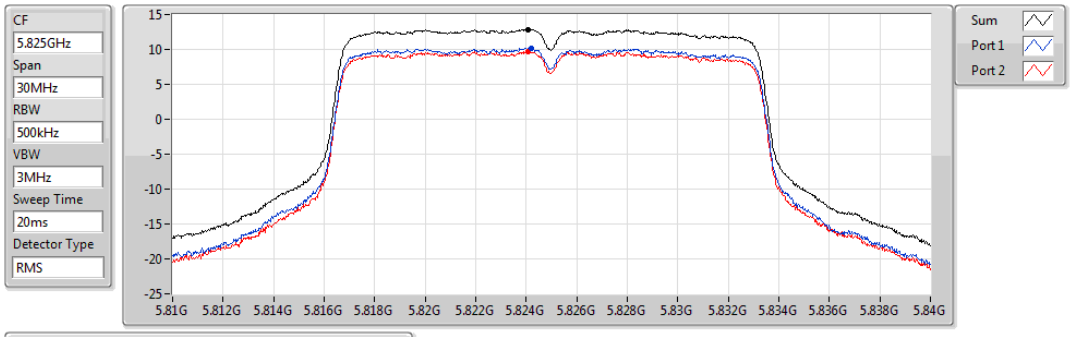
### 5785MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 13.45 | 13.45 | 11.12 | 9.90 |

## 802.11a_Nss1,(6Mbps)_2TX PSD

### 5825MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 12.87 | 12.87 | 10.18 | 9.62 |

**Summary**

| Mode | PD (dBm/RBW) |
|---|---|
| 5.15-5.25GHz | - |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | 15.78 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | 11.82 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | 6.83 |
| 5.725-5.85GHz | - |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | 13.43 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | 10.99 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | 7.98 |

**RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

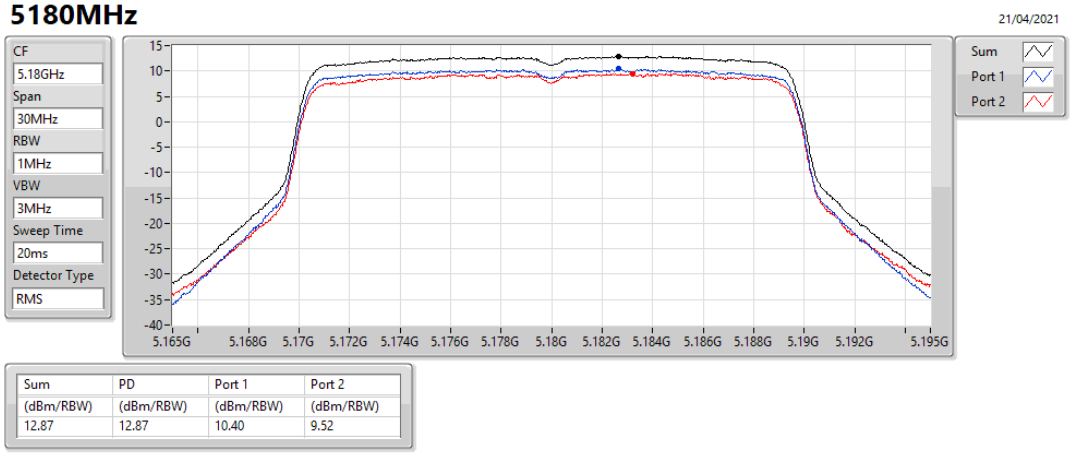
## Result

| Mode | Result | DG (dBi) | Port 1 (dBm/RBW) | Port 2 (dBm/RBW) | PD (dBm/RBW) | PD Limit (dBm/RBW) |
|---|---|---|---|---|---|---|
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5180MHz | Pass | 6.46 | 10.40 | 9.52 | 12.87 | 16.54 |
| 5200MHz | Pass | 6.46 | 13.13 | 12.46 | 15.78 | 16.54 |
| 5240MHz | Pass | 6.46 | 12.45 | 12.00 | 15.13 | 16.54 |
| 5745MHz | Pass | 6.46 | 10.65 | 10.50 | 13.43 | 29.54 |
| 5785MHz | Pass | 6.46 | 10.31 | 10.40 | 13.12 | 29.54 |
| 5825MHz | Pass | 6.46 | 9.10 | 10.26 | 12.73 | 29.54 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5190MHz | Pass | 6.46 | 3.17 | 2.12 | 5.54 | 16.54 |
| 5230MHz | Pass | 6.46 | 9.26 | 8.44 | 11.82 | 16.54 |
| 5755MHz | Pass | 6.46 | 6.85 | 6.62 | 9.63 | 29.54 |
| 5795MHz | Pass | 6.46 | 7.88 | 8.39 | 10.99 | 29.54 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5210MHz | Pass | 6.46 | 1.81 | 6.10 | 6.83 | 16.54 |
| 5775MHz | Pass | 6.46 | 2.63 | 6.90 | 7.98 | 29.54 |

**DG** = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;
**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

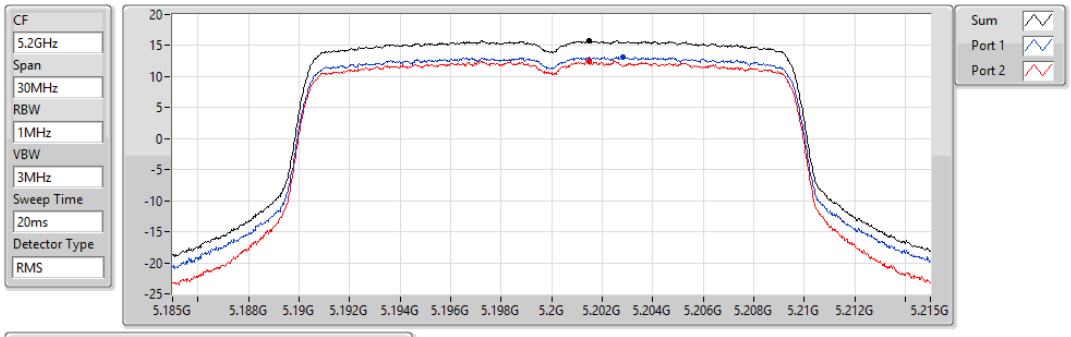
### 5180MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 12.87 | 12.87 | 10.40 | 9.52 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

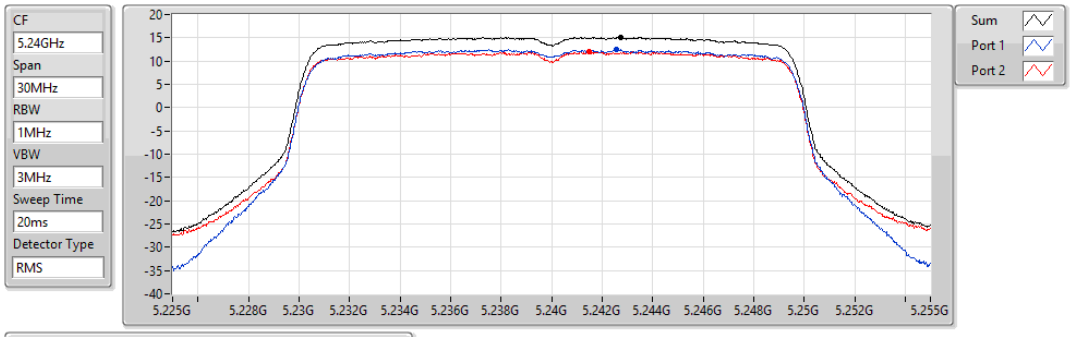
### 5200MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 15.78 | 15.78 | 13.13 | 12.46 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

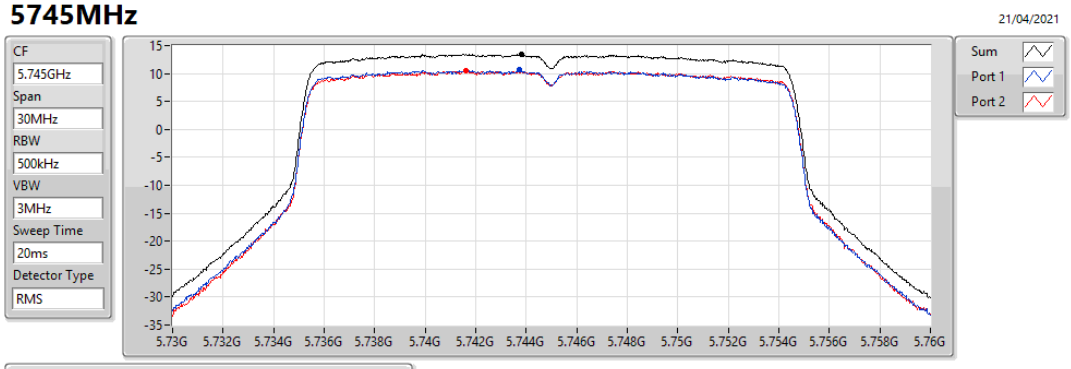
### 5240MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 15.13 | 15.13 | 12.45 | 12.00 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

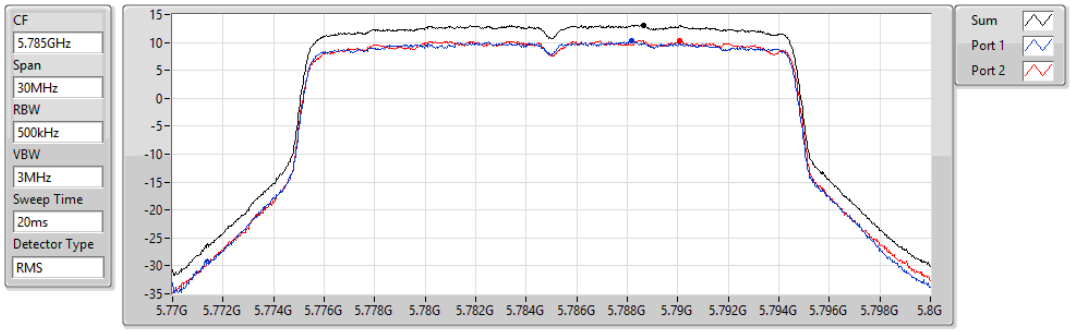
**5745MHz**




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 13.43 | 13.43 | 10.65 | 10.50 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

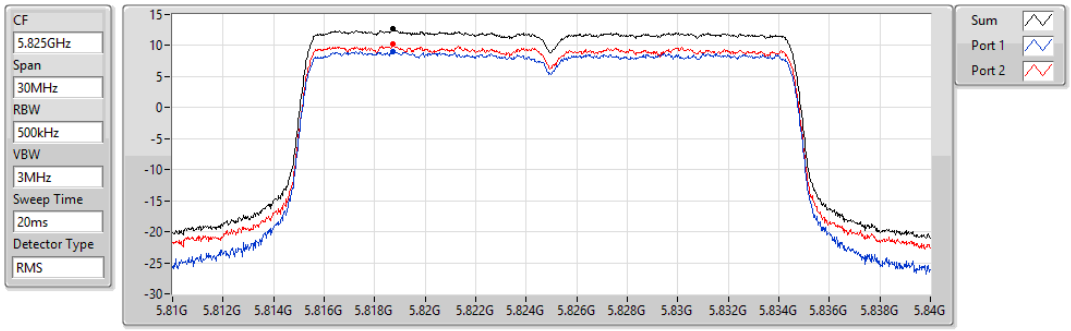
**5785MHz**




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 13.12 | 13.12 | 10.31 | 10.40 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

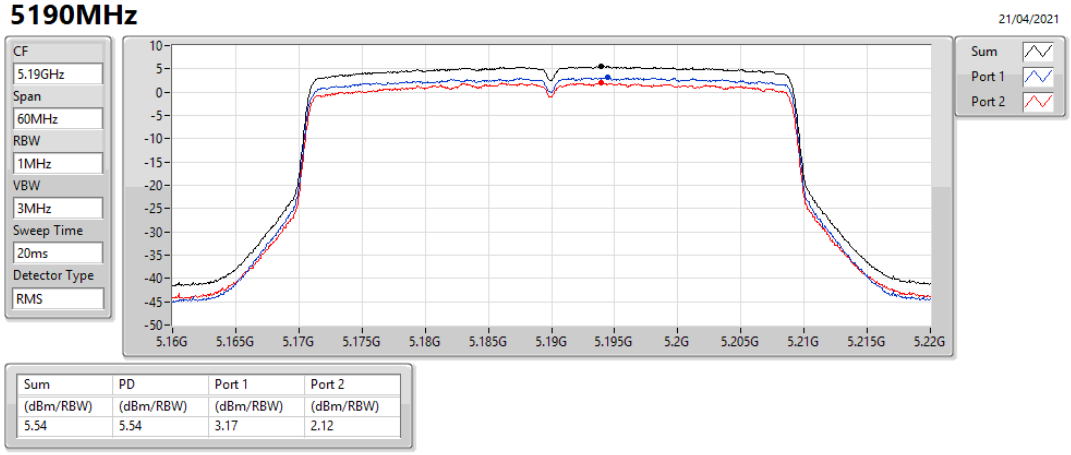
**5825MHz**




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 12.73 | 12.73 | 9.10 | 10.26 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

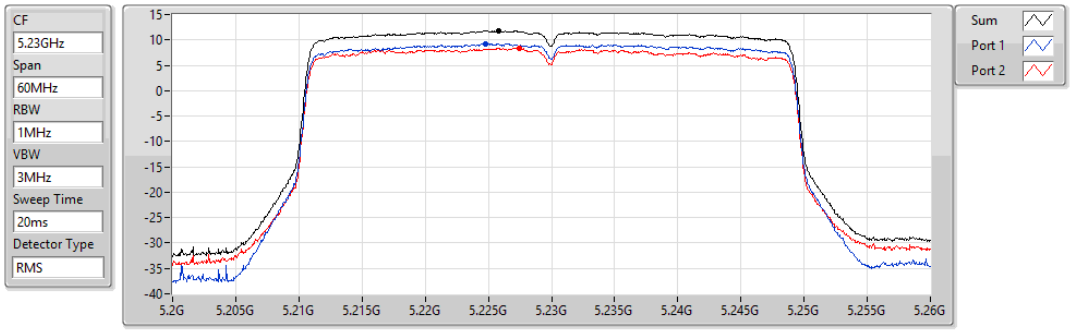
### 5190MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 5.54 | 5.54 | 3.17 | 2.12 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

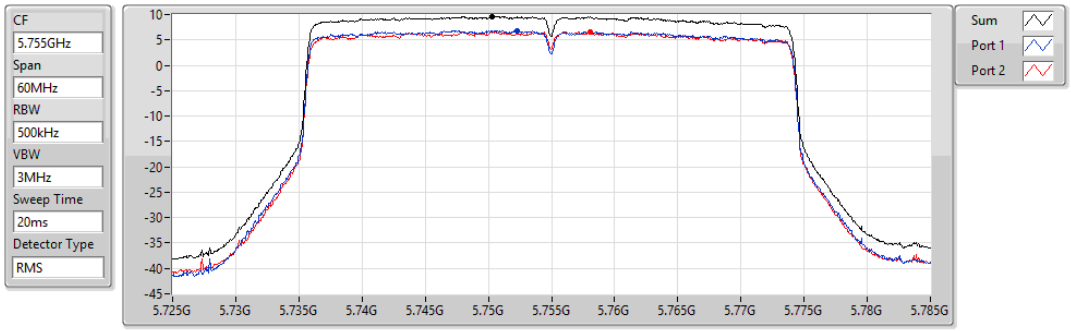
### 5230MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 11.82 | 11.82 | 9.26 | 8.44 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

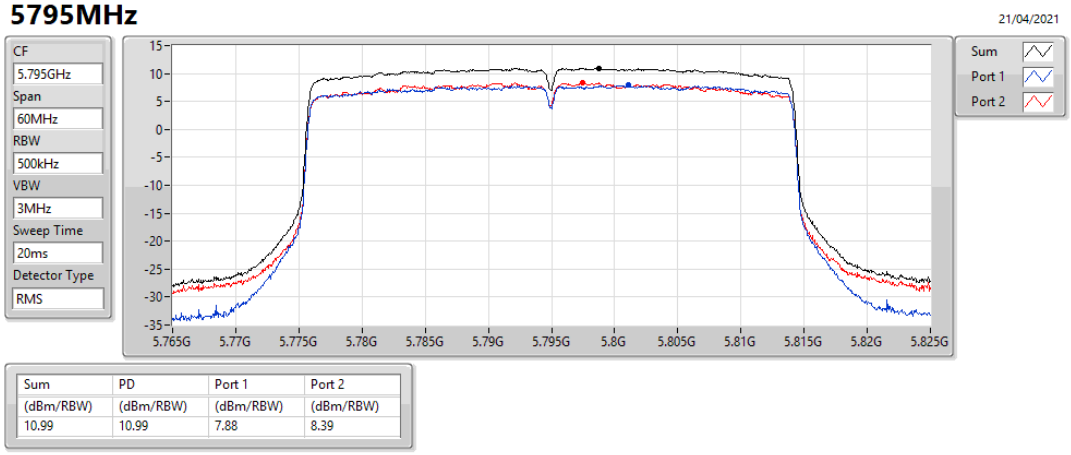
### 5755MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 9.63 | 9.63 | 6.85 | 6.62 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

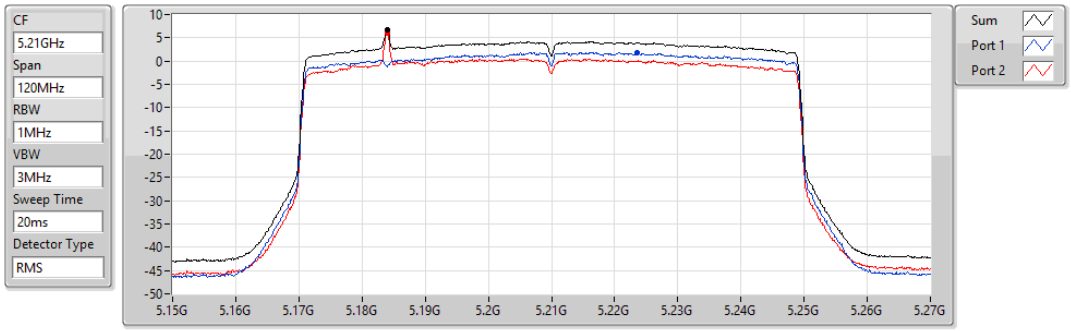
**5795MHz**




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 10.99 | 10.99 | 7.88 | 8.39 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX PSD

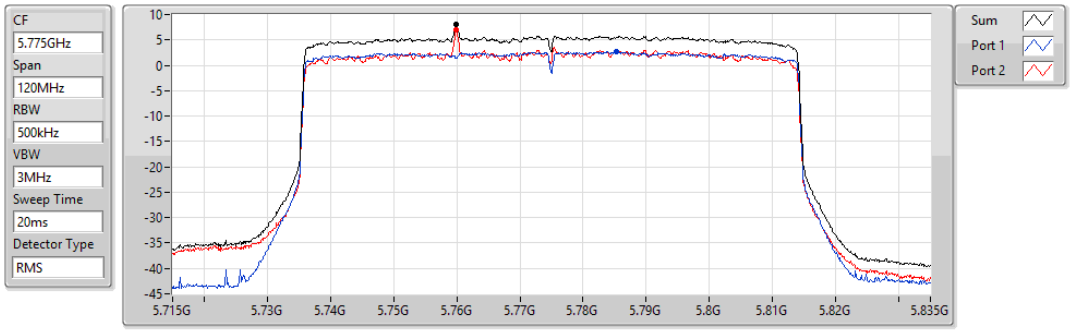
**5210MHz**




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 6.83 | 6.83 | 1.81 | 6.10 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX PSD

**5775MHz**



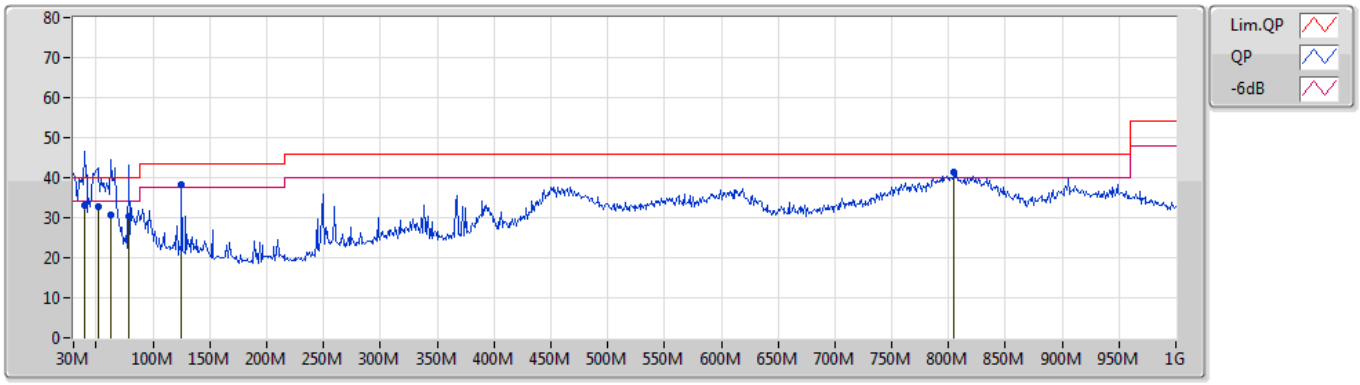

| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.98 | 7.98 | 2.63 | 6.90 |

Summary

| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Condition |
|---|---|---|---|---|---|---|---|
| Mode 1 | Pass | QP | 30M | 35.98 | 40.00 | -4.02 | Horizontal |

## Mode 1

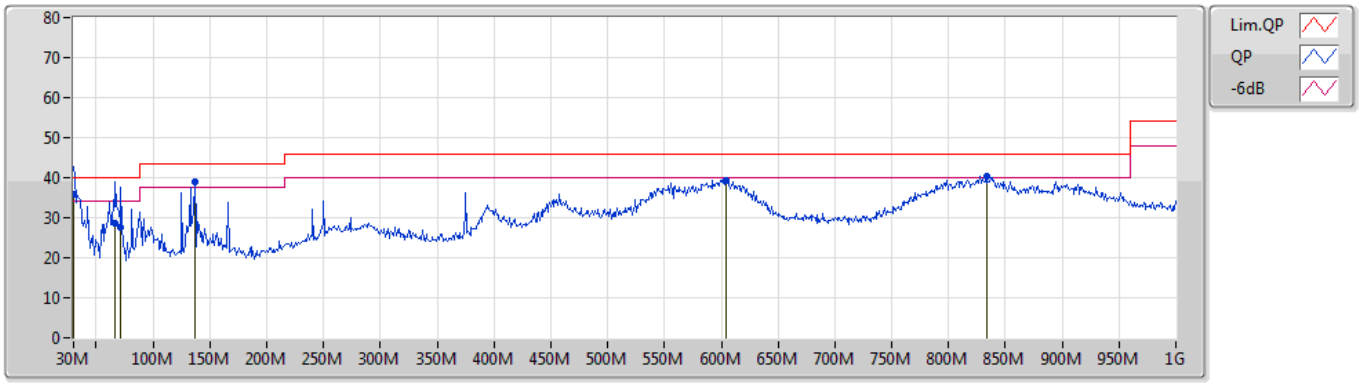
08/03/2021




| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV/m) | (dB/m) | (dB) | (dB) |
| QP | 39.7M | 33.18 | 40.00 | -6.82 | -8.92 | 3 | Vertical | 119 | 1.25 | - | 42.10 | 19.27 | 0.29 | 28.48 |
| QP | 51.34M | 32.71 | 40.00 | -7.29 | -14.49 | 3 | Vertical | 322 | 1.25 | - | 47.20 | 13.60 | 0.40 | 28.49 |
| QP | 62.98M | 30.72 | 40.00 | -9.28 | -15.98 | 3 | Vertical | 111 | 1.25 | - | 46.70 | 12.00 | 0.50 | 28.48 |
| QP | 78.5M | 30.34 | 40.00 | -9.66 | -15.26 | 3 | Vertical | 346 | 1.25 | - | 45.60 | 12.62 | 0.60 | 28.48 |
| PK | 125.06M | 38.32 | 43.50 | -5.18 | -9.56 | 3 | Vertical | 175 | 1.00 | - | 47.88 | 17.83 | 0.95 | 28.34 |
| PK | 805.03M | 41.34 | 46.00 | -4.66 | -0.68 | 3 | Vertical | 111 | 1.25 | "Worst" | 42.02 | 25.15 | 3.22 | 29.05 |

## Mode 1

08/03/2021




| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV/m) | (dB/m) | (dB) | (dB) |
| QP | 30M | 35.98 | 40.00 | -4.02 | -4.62 | 3 | Horizontal | 109 | 1.00 | "Worst" | 40.60 | 23.67 | 0.20 | 28.49 |
| QP | 66.86M | 28.52 | 40.00 | -11.48 | -15.98 | 3 | Horizontal | 199 | 3.00 | - | 44.50 | 11.96 | 0.54 | 28.48 |
| QP | 71.71M | 27.50 | 40.00 | -12.50 | -15.70 | 3 | Horizontal | 84 | 3.00 | - | 43.20 | 12.18 | 0.60 | 28.48 |
| PK | 136.7M | 38.96 | 43.50 | -4.54 | -10.02 | 3 | Horizontal | 231 | 2.00 | - | 48.98 | 17.21 | 1.07 | 28.30 |
| PK | 604.24M | 39.47 | 46.00 | -6.53 | -2.59 | 3 | Horizontal | 360 | 1.50 | - | 42.06 | 24.01 | 2.72 | 29.32 |
| PK | 833.16M | 40.47 | 46.00 | -5.53 | -0.14 | 3 | Horizontal | 225 | 1.00 | - | 40.61 | 25.50 | 3.33 | 28.97 |

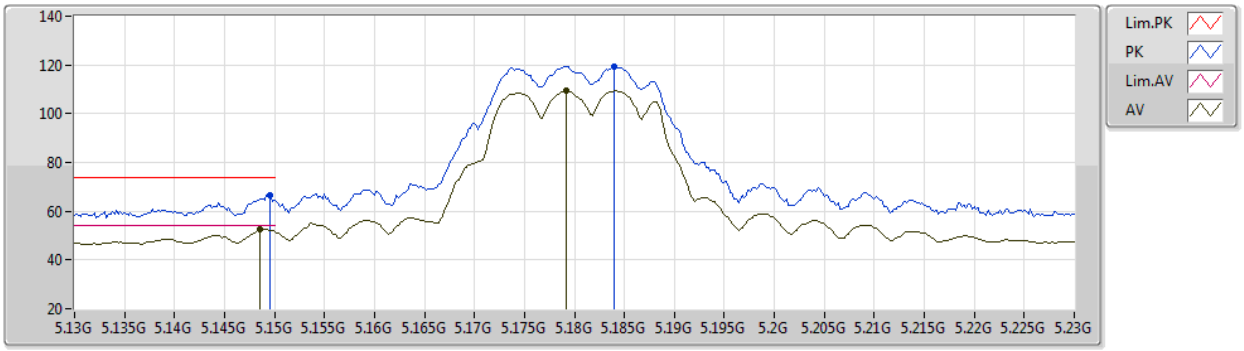
## Summary

| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.15-5.25GHz | - | - | - | - | - | - | - | - | - | - | - |
| 802.11a_Nss1,(6Mbps)_2TX | Pass | AV | 5.15G | 52.85 | 54.00 | -1.15 | 3 | Vertical | 260 | 1.94 | - |

## 802.11a_Nss1,(6Mbps)_2TX

## 5180MHz_TX

26/12/2020



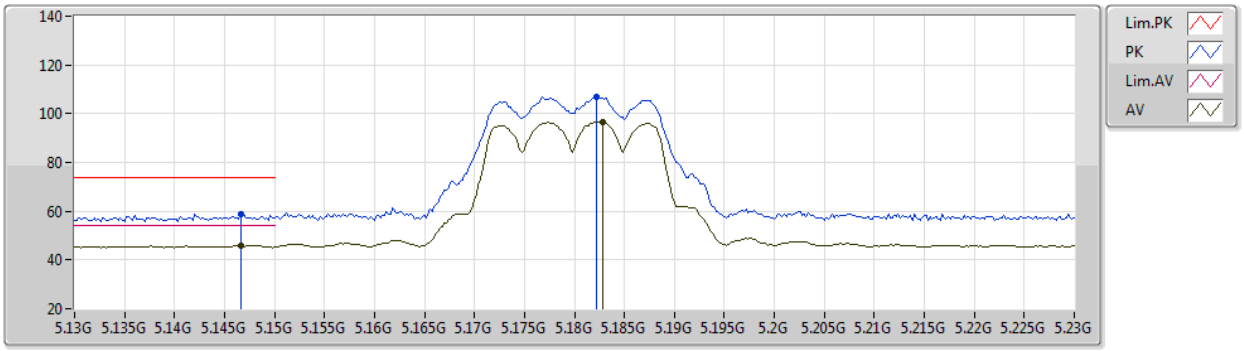

EUT Y_2TX
Setting 20
03-A-C-5-10

| 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 | 5.1496G | 66.81 | 74.00 | -7.19 | 61.81 | 3 | Vertical | 111 | 1.62 | - | 33.90 | 6.43 | 35.33 |
| AV | 5.1486G | 52.63 | 54.00 | -1.37 | 47.63 | 3 | Vertical | 111 | 1.62 | - | 33.90 | 6.43 | 35.33 |
| PK | 5.184G | 119.42 | Inf | -Inf | 114.40 | 3 | Vertical | 111 | 1.62 | - | 33.90 | 6.41 | 35.29 |
| AV | 5.1792G | 109.64 | Inf | -Inf | 104.63 | 3 | Vertical | 111 | 1.62 | - | 33.90 | 6.41 | 35.30 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5180MHz_TX

26/12/2020



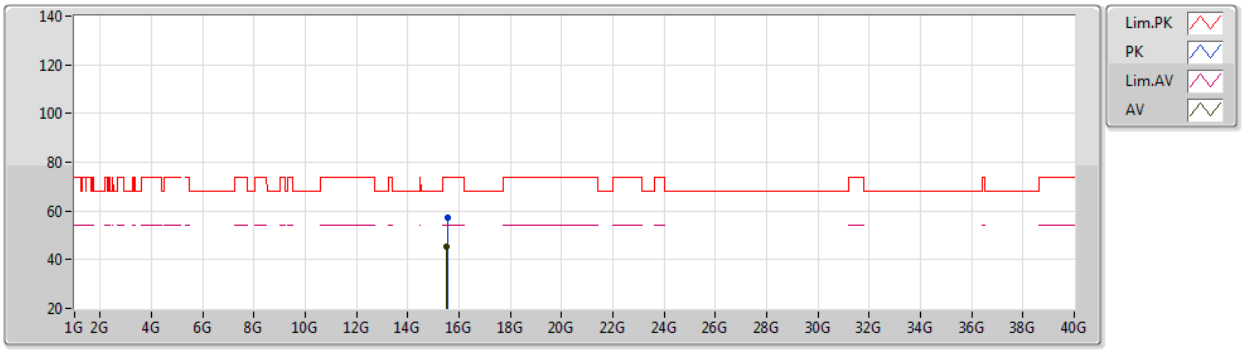

EUT Y_2TX
Setting 20
03-A-C-5-10

| 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 | 5.1466G | 58.91 | 74.00 | -15.09 | 53.91 | 3 | Horizontal | 342 | 1.72 | - | 33.90 | 6.43 | 35.33 |
| AV | 5.1466G | 45.97 | 54.00 | -8.03 | 40.97 | 3 | Horizontal | 342 | 1.72 | - | 33.90 | 6.43 | 35.33 |
| PK | 5.1822G | 106.82 | Inf | -Inf | 101.80 | 3 | Horizontal | 342 | 1.72 | - | 33.90 | 6.41 | 35.29 |
| AV | 5.1828G | 96.78 | Inf | -Inf | 91.76 | 3 | Horizontal | 342 | 1.72 | - | 33.90 | 6.41 | 35.29 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5180MHz_TX

26/12/2020



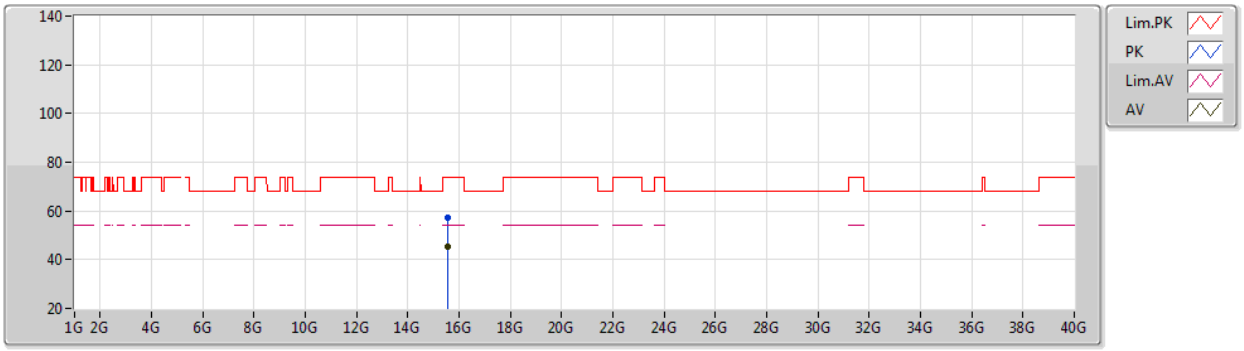

EUT Y_2TX
Setting 20
03-A-C-5

| 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 | 15.5352G | 57.06 | 74.00 | -16.94 | 42.28 | 3 | Vertical | 287 | 1.24 | - | 38.03 | 11.77 | 35.02 |
| AV | 15.5195G | 45.46 | 54.00 | -8.54 | 30.65 | 3 | Vertical | 287 | 1.24 | - | 38.06 | 11.76 | 35.01 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5180MHz_TX

26/12/2020



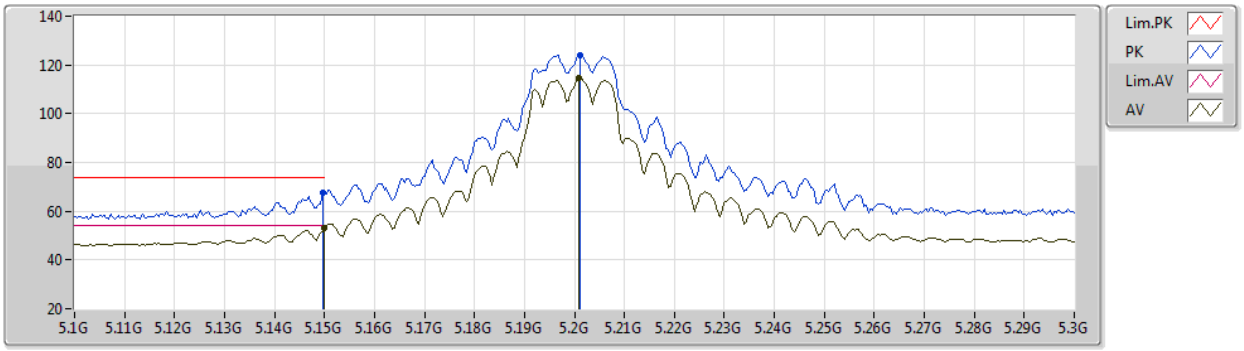

EUT Y_2TX
Setting 20
03-A-C-5

| 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 | 15.5466G | 57.00 | 74.00 | -17.00 | 42.25 | 3 | Horizontal | 203 | 1.46 | - | 38.01 | 11.77 | 35.03 |
| AV | 15.5418G | 45.38 | 54.00 | -8.62 | 30.62 | 3 | Horizontal | 203 | 1.46 | - | 38.02 | 11.77 | 35.03 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5200MHz_TX

26/12/2020



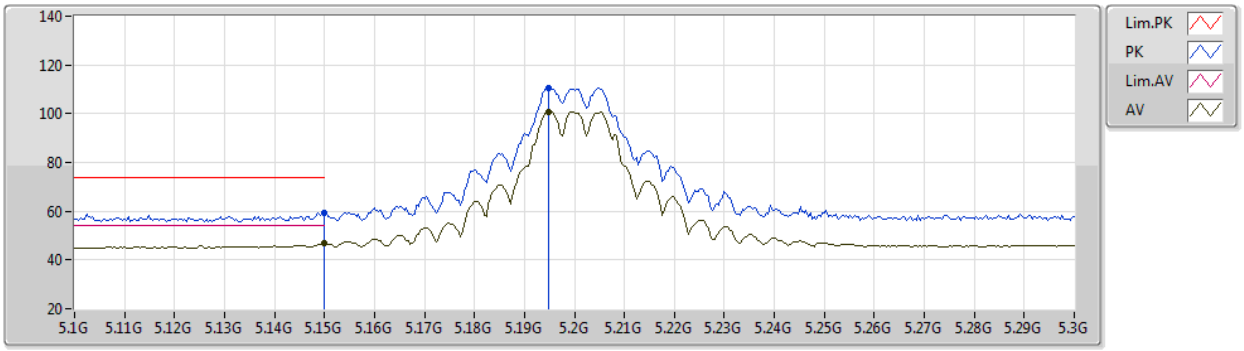

EUT Y_2TX
Setting 26
03-A-C-5-10

| 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 | 5.1496G | 67.68 | 74.00 | -6.32 | 62.68 | 3 | Vertical | 260 | 1.94 | - | 33.90 | 6.43 | 35.33 |
| AV | 5.15G | 52.85 | 54.00 | -1.15 | 47.85 | 3 | Vertical | 260 | 1.94 | - | 33.90 | 6.43 | 35.33 |
| PK | 5.2012G | 124.14 | Inf | -Inf | 119.11 | 3 | Vertical | 260 | 1.94 | - | 33.90 | 6.40 | 35.27 |
| AV | 5.2008G | 114.52 | Inf | -Inf | 109.49 | 3 | Vertical | 260 | 1.94 | - | 33.90 | 6.40 | 35.27 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5200MHz_TX

26/12/2020



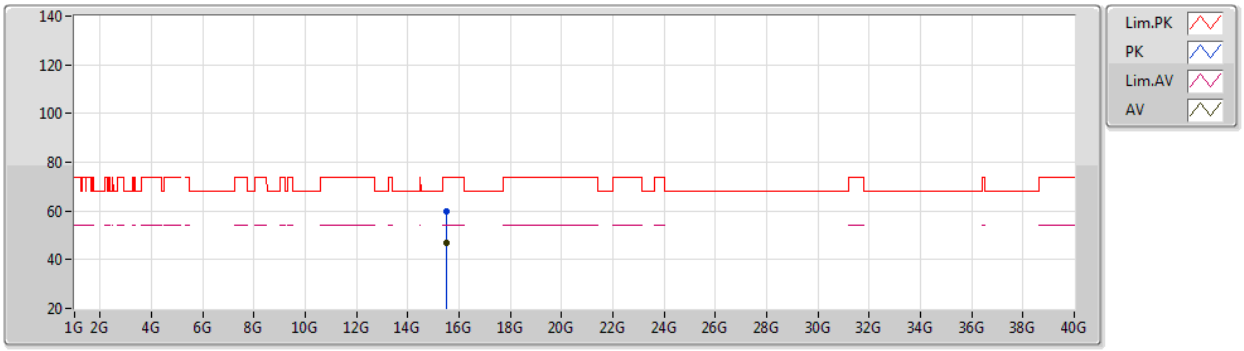

EUT Y_2TX
Setting 26
03-A-C-5-10

| 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 | 5.15G | 59.38 | 74.00 | -14.62 | 54.38 | 3 | Horizontal | 342 | 1.80 | - | 33.90 | 6.43 | 35.33 |
| AV | 5.15G | 46.65 | 54.00 | -7.35 | 41.65 | 3 | Horizontal | 342 | 1.80 | - | 33.90 | 6.43 | 35.33 |
| PK | 5.1948G | 110.61 | Inf | -Inf | 105.59 | 3 | Horizontal | 342 | 1.80 | - | 33.90 | 6.40 | 35.28 |
| AV | 5.1948G | 100.94 | Inf | -Inf | 95.92 | 3 | Horizontal | 342 | 1.80 | - | 33.90 | 6.40 | 35.28 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5200MHz_TX

26/12/2020



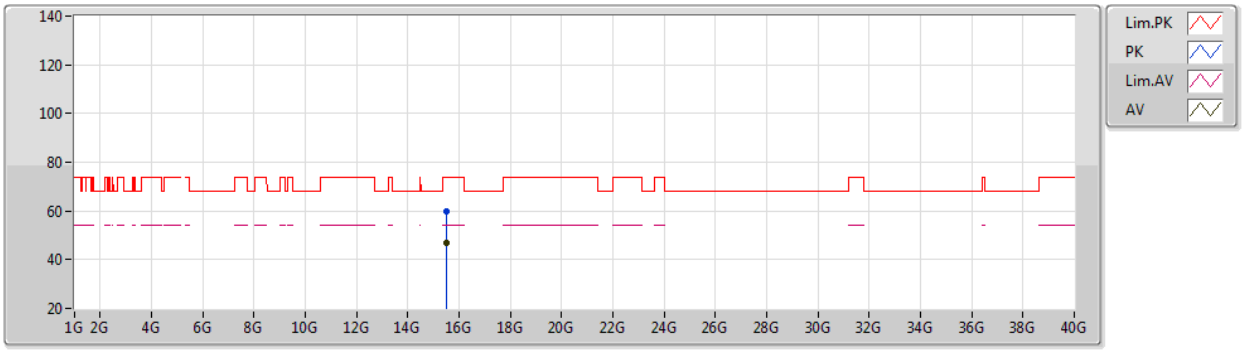

EUT Y_2TX
Setting 26
03-A-C-5

| 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 | 15.5312G | 59.88 | 74.00 | -14.12 | 45.09 | 3 | Vertical | 188 | 1.17 | - | 38.04 | 11.77 | 35.02 |
| AV | 15.504G | 47.01 | 54.00 | -6.99 | 32.17 | 3 | Vertical | 188 | 1.17 | - | 38.09 | 11.75 | 35.00 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5200MHz_TX

26/12/2020



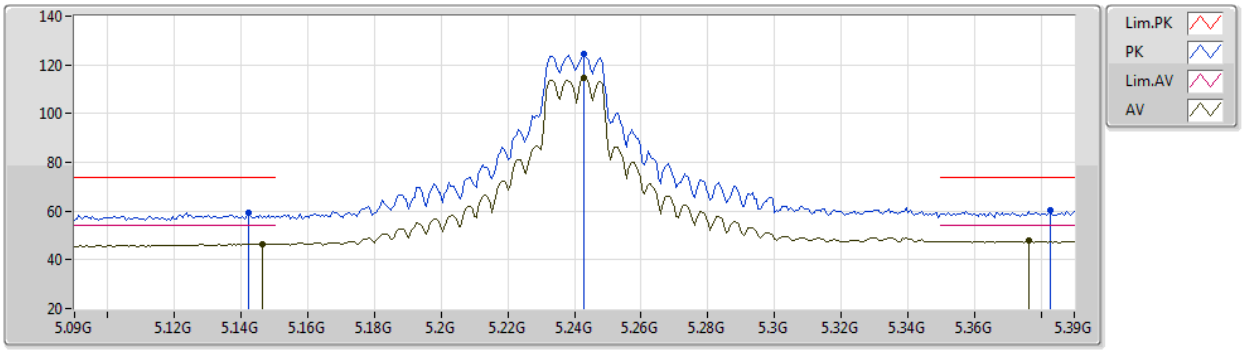

EUT Y_2TX
Setting 26
03-A-C-5

| 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 | 15.5016G | 59.91 | 74.00 | -14.09 | 45.06 | 3 | Horizontal | 126 | 2.48 | - | 38.10 | 11.75 | 35.00 |
| AV | 15.5096G | 46.83 | 54.00 | -7.17 | 32.01 | 3 | Horizontal | 126 | 2.48 | - | 38.08 | 11.75 | 35.01 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5240MHz_TX

26/12/2020



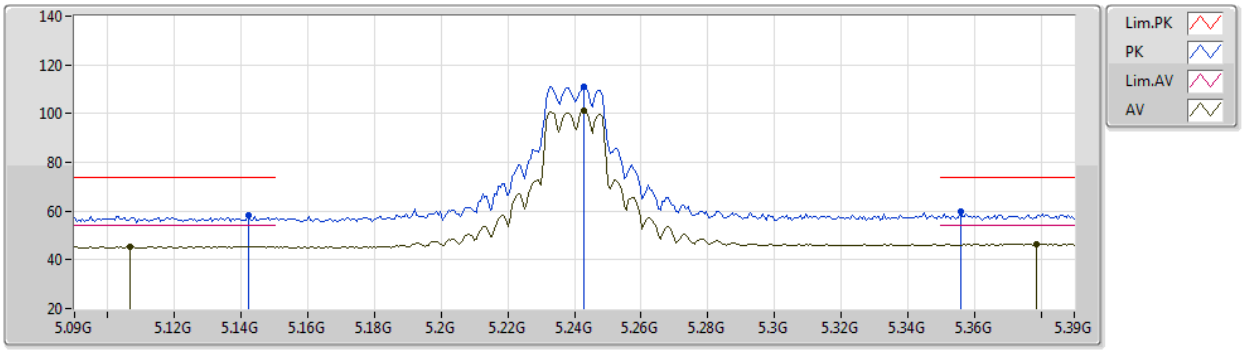

EUT Y_2TX
Setting 27
03-A-C-5-10

| 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 | 5.1422G | 59.29 | 74.00 | -14.71 | 54.30 | 3 | Vertical | 271 | 1.80 | - | 33.90 | 6.43 | 35.34 |
| AV | 5.1464G | 46.61 | 54.00 | -7.39 | 41.61 | 3 | Vertical | 271 | 1.80 | - | 33.90 | 6.43 | 35.33 |
| PK | 5.243G | 124.69 | Inf | -Inf | 119.51 | 3 | Vertical | 271 | 1.80 | - | 33.99 | 6.42 | 35.23 |
| AV | 5.243G | 114.62 | Inf | -Inf | 109.44 | 3 | Vertical | 271 | 1.80 | - | 33.99 | 6.42 | 35.23 |
| PK | 5.3828G | 60.14 | 74.00 | -13.86 | 54.40 | 3 | Vertical | 271 | 1.80 | - | 34.33 | 6.49 | 35.08 |
| AV | 5.3762G | 47.97 | 54.00 | -6.03 | 42.21 | 3 | Vertical | 271 | 1.80 | - | 34.35 | 6.49 | 35.08 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5240MHz_TX

26/12/2020



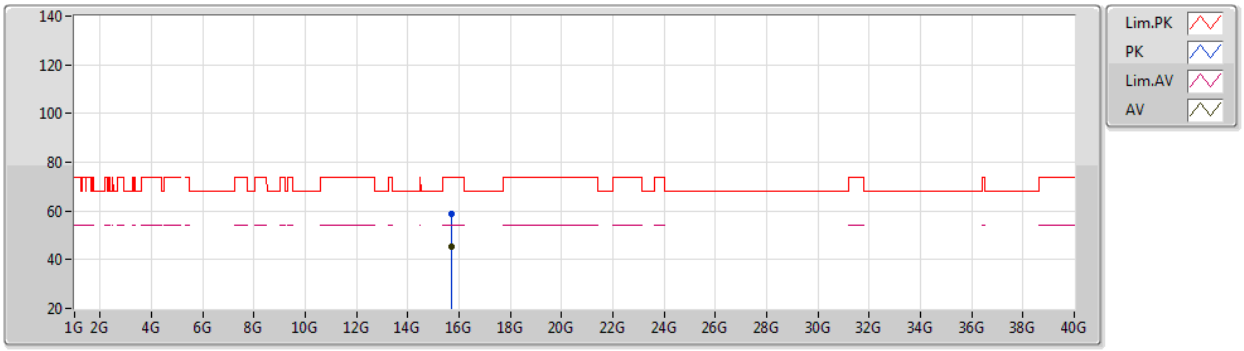

EUT Y_2TX
Setting 27
03-A-C-5-10

| 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 | 5.1422G | 58.22 | 74.00 | -15.78 | 53.23 | 3 | Horizontal | 339 | 1.67 | - | 33.90 | 6.43 | 35.34 |
| AV | 5.1068G | 45.41 | 54.00 | -8.59 | 40.43 | 3 | Horizontal | 339 | 1.67 | - | 33.90 | 6.45 | 35.37 |
| PK | 5.243G | 110.99 | Inf | -Inf | 105.81 | 3 | Horizontal | 339 | 1.67 | - | 33.99 | 6.42 | 35.23 |
| AV | 5.243G | 101.25 | Inf | -Inf | 96.07 | 3 | Horizontal | 339 | 1.67 | - | 33.99 | 6.42 | 35.23 |
| PK | 5.3558G | 59.66 | 74.00 | -14.34 | 53.90 | 3 | Horizontal | 339 | 1.67 | - | 34.39 | 6.48 | 35.11 |
| AV | 5.3786G | 46.48 | 54.00 | -7.52 | 40.73 | 3 | Horizontal | 339 | 1.67 | - | 34.34 | 6.49 | 35.08 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5240MHz_TX

26/12/2020



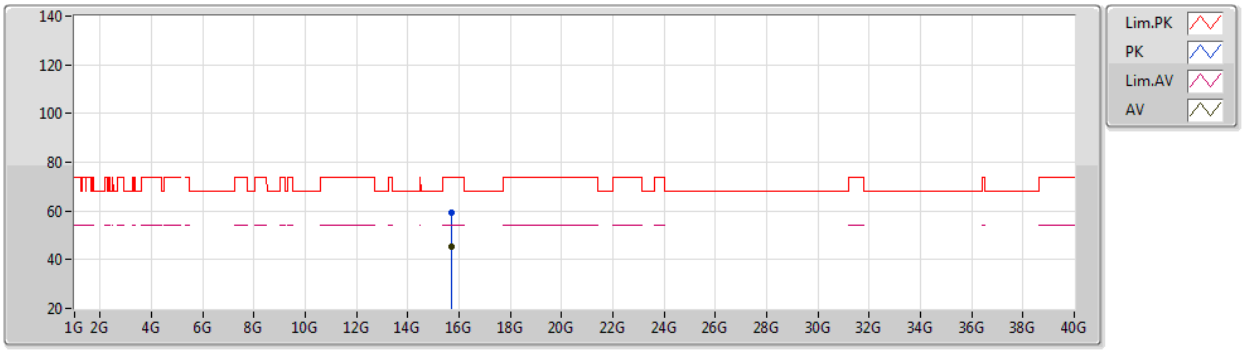

EUT Y_2TX
Setting 27
03-A-C-5

| 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 | 15.71814G | 58.94 | 74.00 | -15.06 | 44.59 | 3 | Vertical | 46 | 2.37 | - | 37.63 | 11.86 | 35.14 |
| AV | 15.70752G | 45.13 | 54.00 | -8.87 | 30.74 | 3 | Vertical | 46 | 2.37 | - | 37.67 | 11.85 | 35.13 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5240MHz_TX

26/12/2020



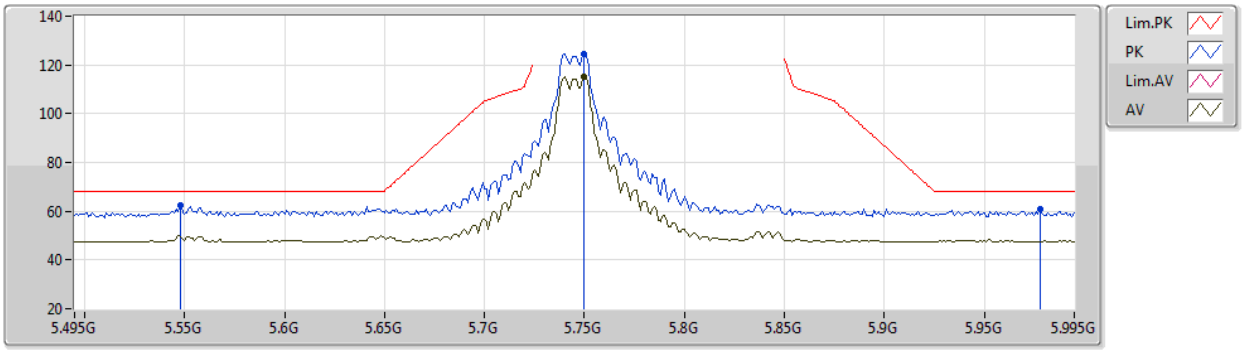

EUT Y_2TX
Setting 27
03-A-C-5

| 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 | 15.70512G | 59.10 | 74.00 | -14.90 | 44.70 | 3 | Horizontal | 100 | 1.61 | - | 37.68 | 11.85 | 35.13 |
| AV | 15.70992G | 45.19 | 54.00 | -8.81 | 30.81 | 3 | Horizontal | 100 | 1.61 | - | 37.66 | 11.85 | 35.13 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5745MHz_TX

26/12/2020



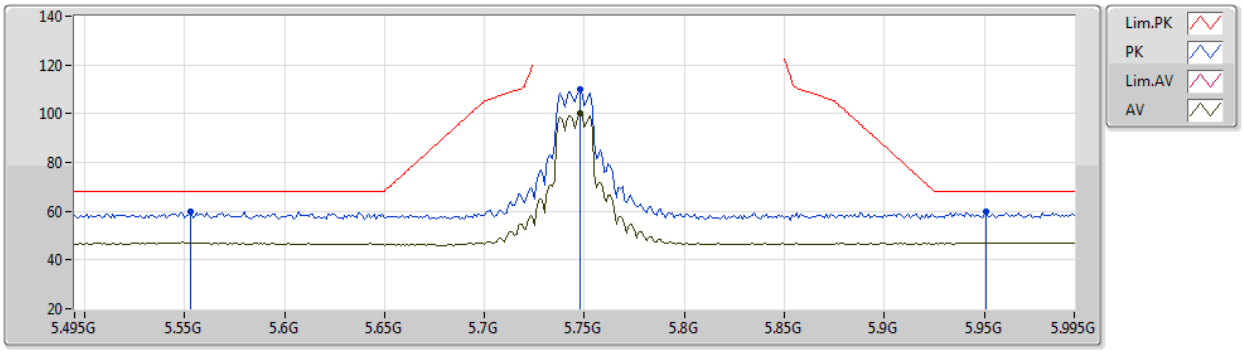

EUT Y_2TX
Setting 27
03-A-C-5-10

| 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 | 5.548G | 62.36 | 68.20 | -5.84 | 56.09 | 3 | Vertical | 133 | 1.73 | - | 34.50 | 6.72 | 34.95 |
| PK | 5.75G | 124.71 | Inf | -Inf | 118.58 | 3 | Vertical | 133 | 1.73 | - | 34.20 | 6.87 | 34.94 |
| AV | 5.75G | 114.97 | Inf | -Inf | 108.84 | 3 | Vertical | 133 | 1.73 | - | 34.20 | 6.87 | 34.94 |
| PK | 5.978G | 60.72 | 68.20 | -7.48 | 53.99 | 3 | Vertical | 133 | 1.73 | - | 34.66 | 6.99 | 34.92 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5745MHz_TX

26/12/2020



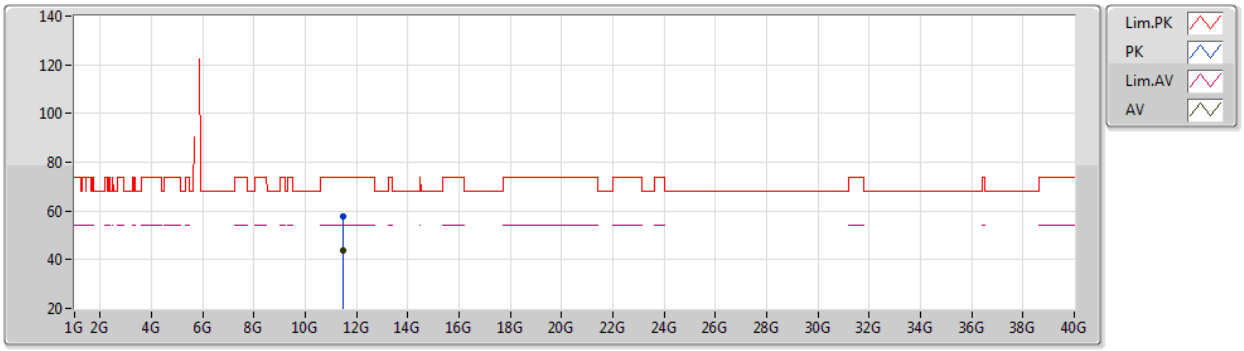

EUT Y_2TX
Setting 27
03-A-C-5-10

| 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 | 5.553G | 60.07 | 68.20 | -8.13 | 53.80 | 3 | Horizontal | 265 | 1.67 | - | 34.49 | 6.73 | 34.95 |
| PK | 5.748G | 109.94 | Inf | -Inf | 103.81 | 3 | Horizontal | 265 | 1.67 | - | 34.20 | 6.87 | 34.94 |
| AV | 5.748G | 100.05 | Inf | -Inf | 93.92 | 3 | Horizontal | 265 | 1.67 | - | 34.20 | 6.87 | 34.94 |
| PK | 5.951G | 59.78 | 68.20 | -8.42 | 53.12 | 3 | Horizontal | 265 | 1.67 | - | 34.60 | 6.98 | 34.92 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5745MHz_TX

26/12/2020



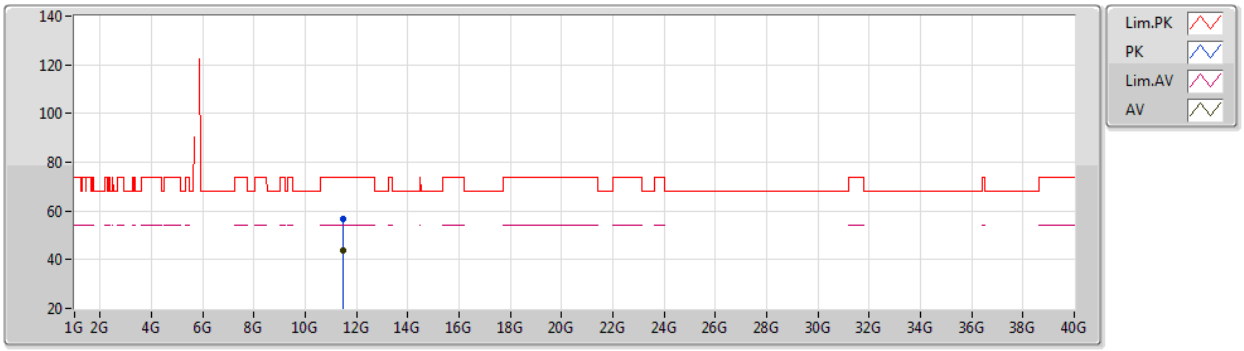

EUT Y_2TX
Setting 27
03-A-C-5

| 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 | 11.4882G | 57.56 | 74.00 | -16.44 | 43.33 | 3 | Vertical | 9 | 2.34 | - | 38.98 | 9.90 | 34.65 |
| AV | 11.48838G | 43.90 | 54.00 | -10.10 | 29.67 | 3 | Vertical | 9 | 2.34 | - | 38.98 | 9.90 | 34.65 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5745MHz_TX

26/12/2020



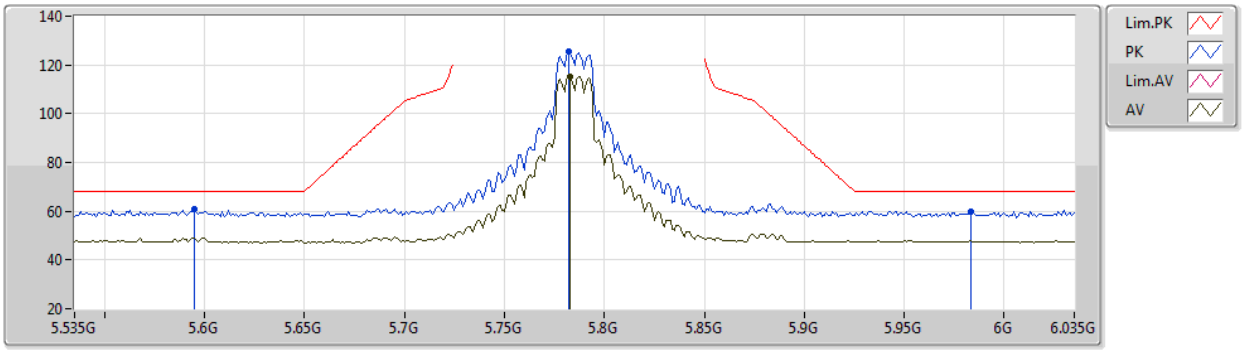

EUT Y_2TX
Setting 27
03-A-C-5

| 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 | 11.48982G | 56.70 | 74.00 | -17.30 | 42.47 | 3 | Horizontal | 90 | 1.82 | - | 38.98 | 9.90 | 34.65 |
| AV | 11.49006G | 43.60 | 54.00 | -10.40 | 29.37 | 3 | Horizontal | 90 | 1.82 | - | 38.98 | 9.90 | 34.65 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5785MHz_TX

26/12/2020



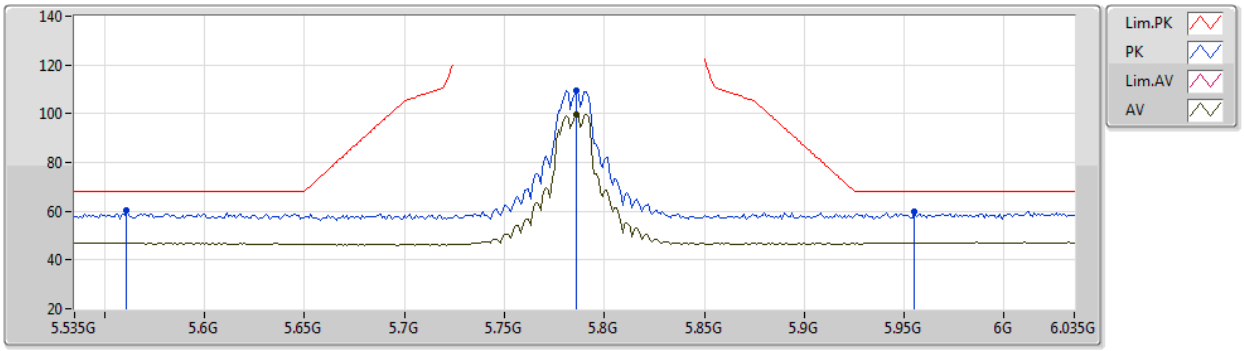

EUT Y_2TX
Setting 27
03-A-C-5-10

| 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 | 5.595G | 60.88 | 68.20 | -7.32 | 54.71 | 3 | Vertical | 130 | 1.80 | - | 34.32 | 6.79 | 34.94 |
| PK | 5.782G | 125.61 | Inf | -Inf | 119.45 | 3 | Vertical | 130 | 1.80 | - | 34.20 | 6.89 | 34.93 |
| AV | 5.783G | 115.32 | Inf | -Inf | 109.16 | 3 | Vertical | 130 | 1.80 | - | 34.20 | 6.89 | 34.93 |
| PK | 5.983G | 60.06 | 68.20 | -8.14 | 53.32 | 3 | Vertical | 130 | 1.80 | - | 34.67 | 6.99 | 34.92 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5785MHz_TX

26/12/2020



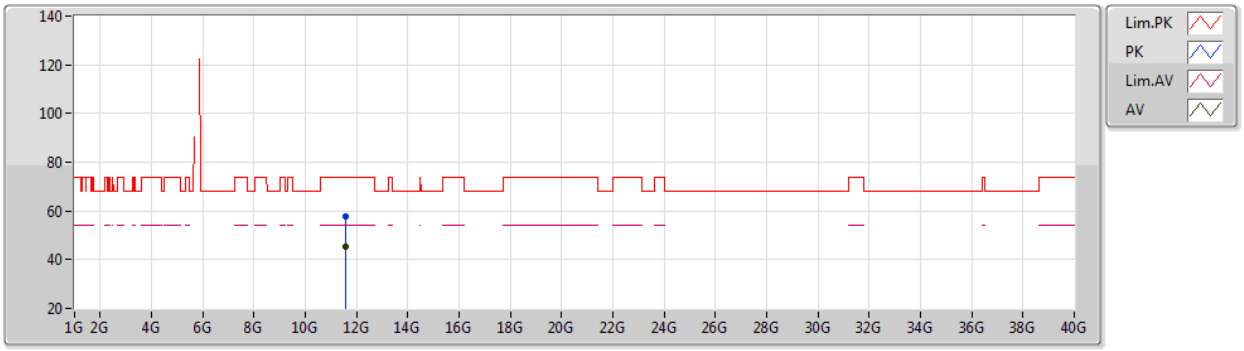

EUT Y_2TX
Setting 27
03-A-C-5-10

| 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 | 5.561G | 60.12 | 68.20 | -8.08 | 53.87 | 3 | Horizontal | 263 | 1.64 | - | 34.46 | 6.74 | 34.95 |
| PK | 5.786G | 109.67 | Inf | -Inf | 103.51 | 3 | Horizontal | 263 | 1.64 | - | 34.20 | 6.89 | 34.93 |
| AV | 5.786G | 99.65 | Inf | -Inf | 93.49 | 3 | Horizontal | 263 | 1.64 | - | 34.20 | 6.89 | 34.93 |
| PK | 5.955G | 59.70 | 68.20 | -8.50 | 53.03 | 3 | Horizontal | 263 | 1.64 | - | 34.61 | 6.98 | 34.92 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5785MHz_TX

26/12/2020



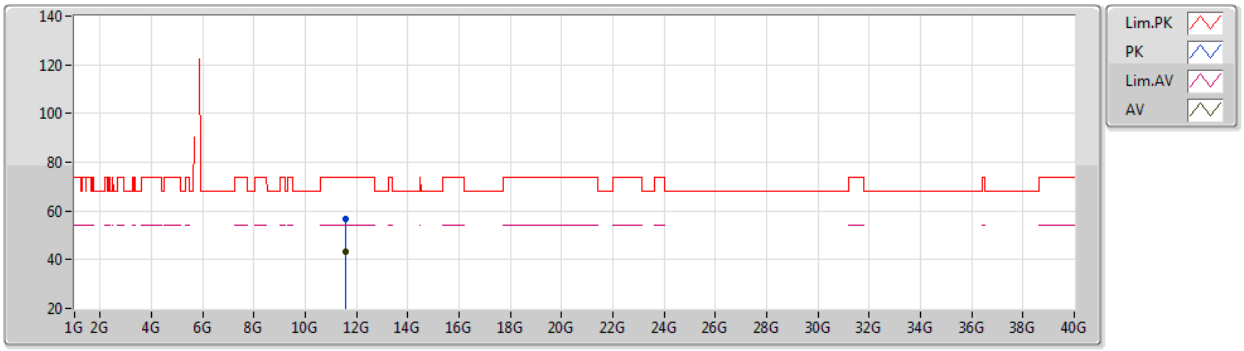

EUT Y_2TX
Setting 27
03-A-C-5

| 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 | 11.56322G | 57.70 | 74.00 | -16.30 | 43.27 | 3 | Vertical | 9 | 2.06 | - | 39.19 | 9.91 | 34.67 |
| AV | 11.56832G | 45.31 | 54.00 | -8.69 | 30.87 | 3 | Vertical | 9 | 2.06 | - | 39.20 | 9.91 | 34.67 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5785MHz_TX

26/12/2020



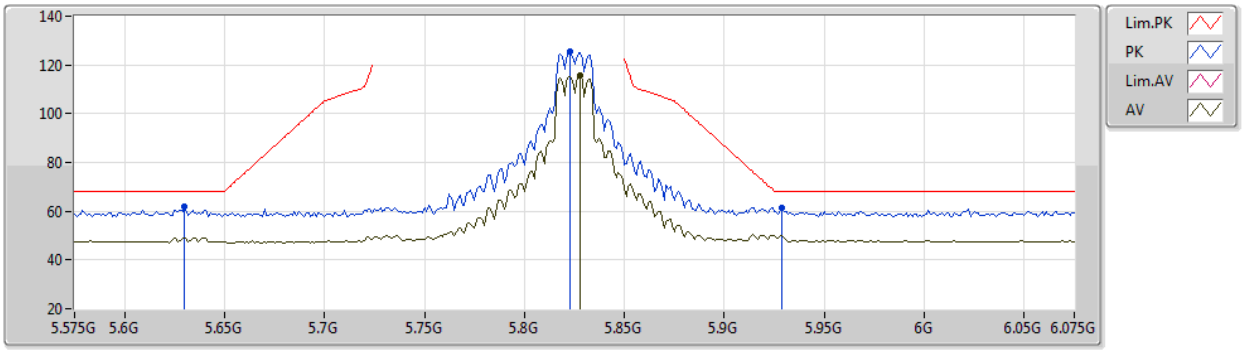

EUT Y_2TX
Setting 27
03-A-C-5

| 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 | 11.57678G | 56.64 | 74.00 | -17.36 | 42.16 | 3 | Horizontal | 240 | 2.49 | - | 39.23 | 9.92 | 34.67 |
| AV | 11.57366G | 43.15 | 54.00 | -10.85 | 28.69 | 3 | Horizontal | 240 | 2.49 | - | 39.22 | 9.91 | 34.67 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5825MHz_TX

26/12/2020



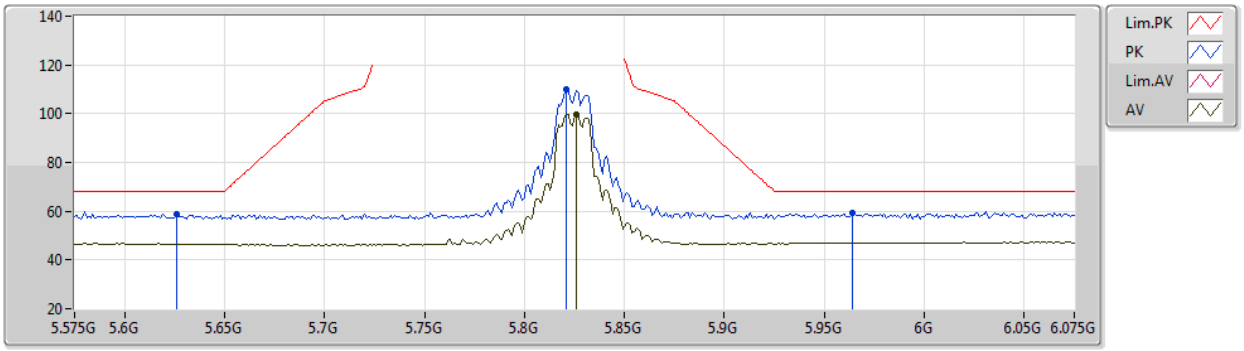

EUT Y_2TX
Setting 27
03-A-C-5-10

| 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 | 5.63G | 61.97 | 68.20 | -6.23 | 55.74 | 3 | Vertical | 131 | 1.80 | - | 34.36 | 6.81 | 34.94 |
| PK | 5.823G | 125.58 | Inf | -Inf | 119.31 | 3 | Vertical | 131 | 1.80 | - | 34.29 | 6.91 | 34.93 |
| AV | 5.828G | 115.46 | Inf | -Inf | 109.17 | 3 | Vertical | 131 | 1.80 | - | 34.31 | 6.91 | 34.93 |
| PK | 5.929G | 61.25 | 68.20 | -6.95 | 54.69 | 3 | Vertical | 131 | 1.80 | - | 34.52 | 6.96 | 34.92 |

## 802.11a_Nss1,(6Mbps)_2TX

26/12/2020

### 5825MHz_TX



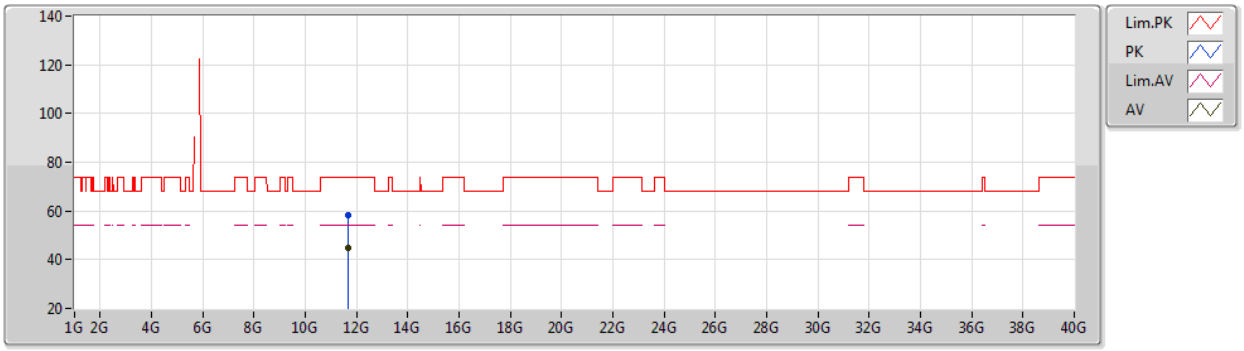

EUT Y_2TX
Setting 27
03-A-C-5-10

| 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 | 5.626G | 58.94 | 68.20 | -9.26 | 52.72 | 3 | Horizontal | 261 | 1.86 | - | 34.35 | 6.81 | 34.94 |
| PK | 5.821G | 110.02 | Inf | -Inf | 103.76 | 3 | Horizontal | 261 | 1.86 | - | 34.28 | 6.91 | 34.93 |
| AV | 5.826G | 99.87 | Inf | -Inf | 93.59 | 3 | Horizontal | 261 | 1.86 | - | 34.30 | 6.91 | 34.93 |
| PK | 5.964G | 59.22 | 68.20 | -8.98 | 52.53 | 3 | Horizontal | 261 | 1.86 | - | 34.63 | 6.98 | 34.92 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5825MHz_TX

26/12/2020



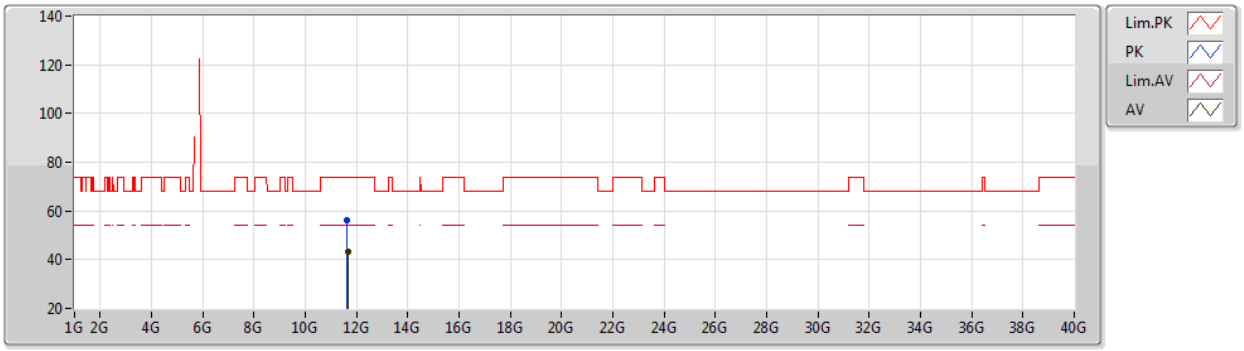

EUT Y_2TX
Setting 27
03-A-C-5

| 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 | 11.65276G | 58.39 | 74.00 | -15.61 | 43.80 | 3 | Vertical | 9 | 2.02 | - | 39.35 | 9.93 | 34.69 |
| AV | 11.64832G | 45.01 | 54.00 | -8.99 | 30.42 | 3 | Vertical | 9 | 2.02 | - | 39.35 | 9.93 | 34.69 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5825MHz_TX

26/12/2020




EUT Y_2TX
Setting 27
03-A-C-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 | 11.64694G | 56.40 | 74.00 | -17.60 | 41.81 | 3 | Horizontal | 300 | 1.48 | - | 39.35 | 9.93 | 34.69 |
| AV | 11.6506G | 43.27 | 54.00 | -10.73 | 28.68 | 3 | Horizontal | 300 | 1.48 | - | 39.35 | 9.93 | 34.69 |

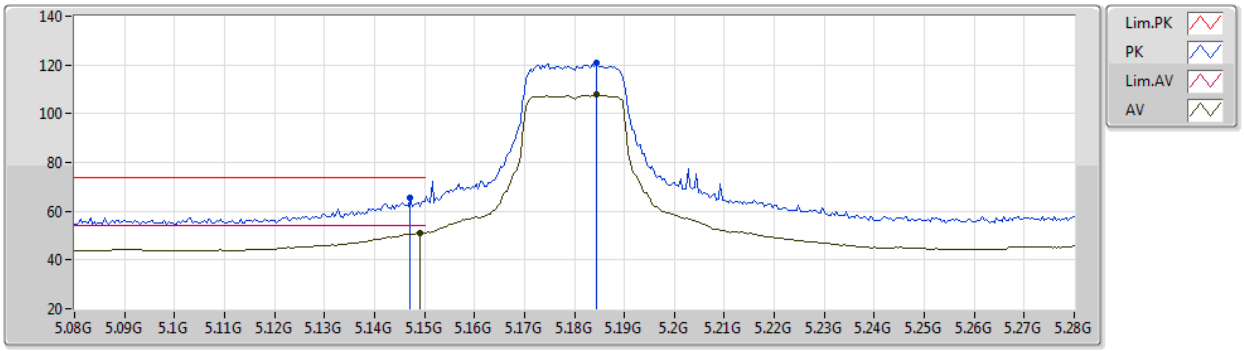
## Summary

| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.15-5.25GHz | - | - | - | - | - | - | - | - | - | - | - |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | Pass | AV | 5.15G | 52.31 | 54.00 | -1.69 | 3 | Vertical | 117 | 1.26 | - |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5180MHz_TX

21/04/2021



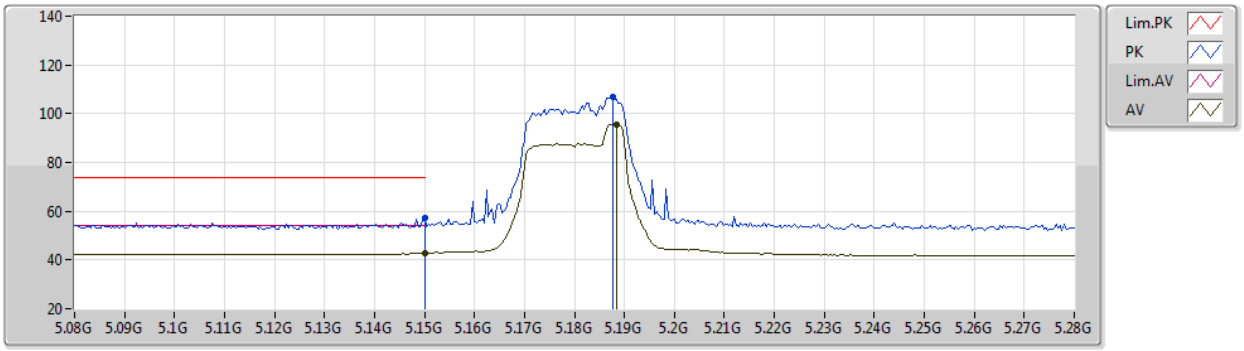

EUT Y_2TX
Setting 26
02-B-N-2-10

| 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 | 5.1472G | 65.26 | 74.00 | -8.74 | 60.19 | 3 | Vertical | 242 | 1.80 | - | 31.81 | 4.99 | 31.73 |
| AV | 5.1492G | 51.10 | 54.00 | -2.90 | 46.03 | 3 | Vertical | 242 | 1.80 | - | 31.80 | 5.00 | 31.73 |
| PK | 5.1844G | 120.96 | Inf | -Inf | 115.93 | 3 | Vertical | 242 | 1.80 | - | 31.66 | 5.07 | 31.70 |
| AV | 5.1844G | 107.78 | Inf | -Inf | 102.75 | 3 | Vertical | 242 | 1.80 | - | 31.66 | 5.07 | 31.70 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5180MHz_TX

21/04/2021



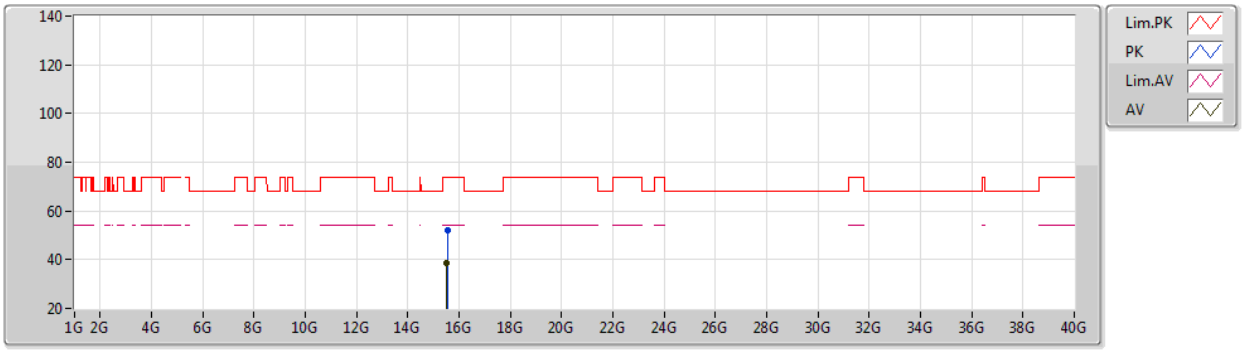

EUT Y_2TX
Setting 26
02-B-N-2-10

| 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 | 5.15G | 57.50 | 74.00 | -16.50 | 52.43 | 3 | Horizontal | 141 | 1.80 | - | 31.80 | 5.00 | 31.73 |
| AV | 5.15G | 42.77 | 54.00 | -11.23 | 37.70 | 3 | Horizontal | 141 | 1.80 | - | 31.80 | 5.00 | 31.73 |
| PK | 5.1876G | 106.79 | Inf | -Inf | 101.76 | 3 | Horizontal | 141 | 1.80 | - | 31.65 | 5.08 | 31.70 |
| AV | 5.1884G | 95.77 | Inf | -Inf | 90.74 | 3 | Horizontal | 141 | 1.80 | - | 31.65 | 5.08 | 31.70 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

21/04/2021

## 5180MHz_TX



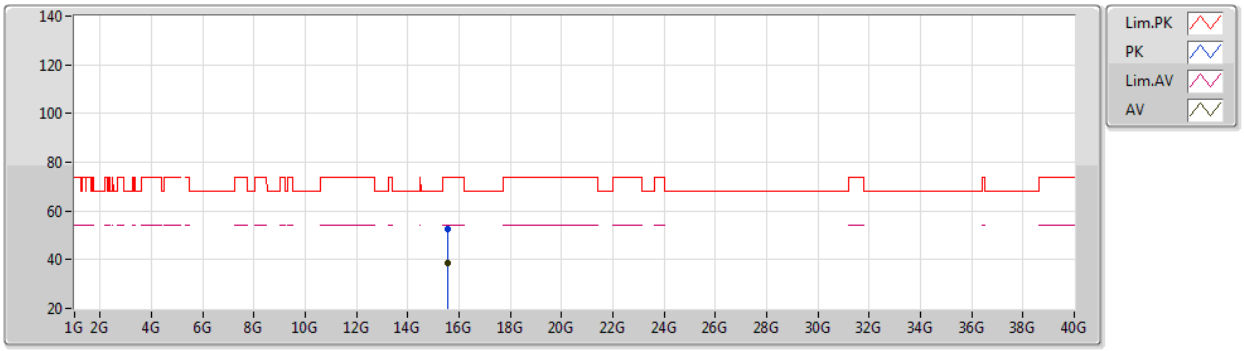

EUT Y_2TX
Setting 26
02-B-N-2

| 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 | 15.54408G | 52.10 | 74.00 | -21.90 | 38.02 | 3 | Vertical | 3 | 1.42 | - | 37.88 | 9.04 | 32.84 |
| AV | 15.53012G | 38.63 | 54.00 | -15.37 | 24.48 | 3 | Vertical | 3 | 1.42 | - | 37.95 | 9.04 | 32.84 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

21/04/2021

## 5180MHz_TX



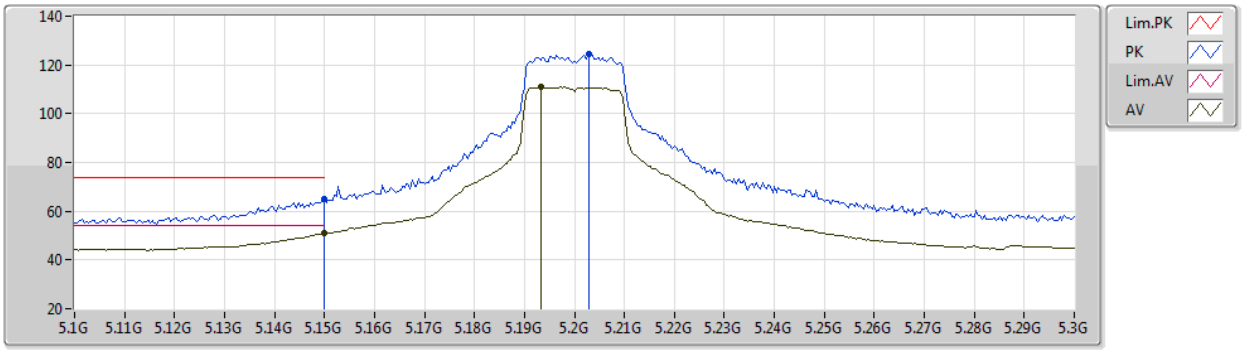

EUT Y_2TX
Setting 26
02-B-N-2

| 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 | 15.54336G | 52.67 | 74.00 | -21.33 | 38.59 | 3 | Horizontal | 138 | 1.55 | - | 37.88 | 9.04 | 32.84 |
| AV | 15.53924G | 38.73 | 54.00 | -15.27 | 24.63 | 3 | Horizontal | 138 | 1.55 | - | 37.90 | 9.04 | 32.84 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5200MHz_TX

21/04/2021



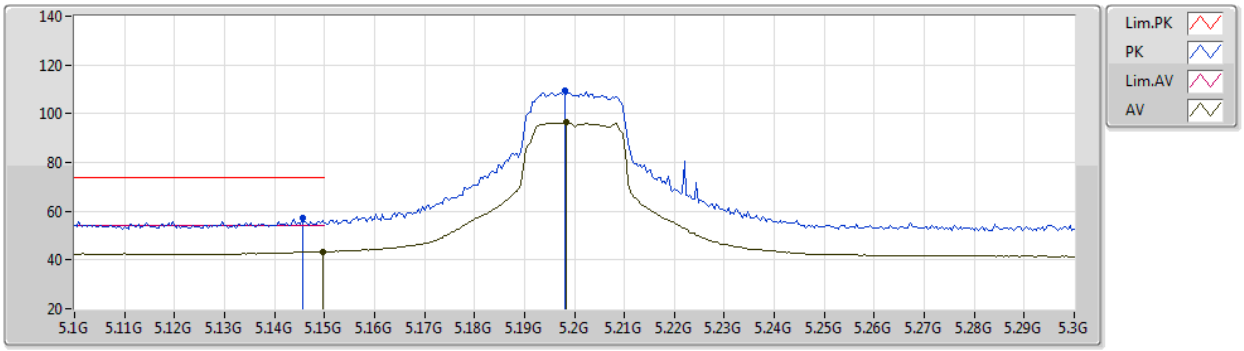

EUT Y_2TX
Setting 29
02-B-N-2-10

| 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 | 5.15G | 64.81 | 74.00 | -9.19 | 59.74 | 3 | Vertical | 248 | 1.77 | - | 31.80 | 5.00 | 31.73 |
| AV | 5.15G | 50.91 | 54.00 | -3.09 | 45.84 | 3 | Vertical | 248 | 1.77 | - | 31.80 | 5.00 | 31.73 |
| PK | 5.2028G | 124.30 | Inf | -Inf | 119.30 | 3 | Vertical | 248 | 1.77 | - | 31.59 | 5.10 | 31.69 |
| AV | 5.1932G | 111.03 | Inf | -Inf | 106.01 | 3 | Vertical | 248 | 1.77 | - | 31.63 | 5.09 | 31.70 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5200MHz_TX

21/04/2021



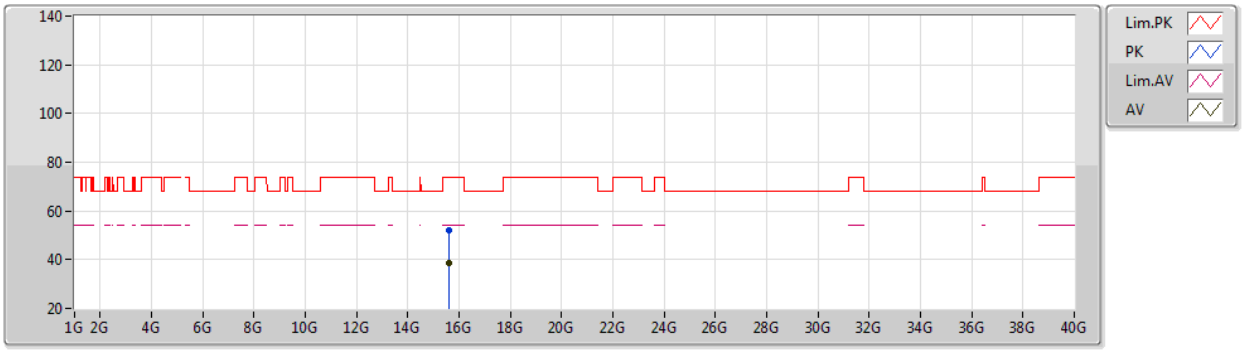

EUT Y_2TX
Setting 29
02-B-N-2-10

| 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 | 5.1456G | 57.23 | 74.00 | -16.77 | 52.15 | 3 | Horizontal | 200 | 1.80 | - | 31.82 | 4.99 | 31.73 |
| AV | 5.1496G | 43.42 | 54.00 | -10.58 | 38.35 | 3 | Horizontal | 200 | 1.80 | - | 31.80 | 5.00 | 31.73 |
| PK | 5.198G | 109.27 | Inf | -Inf | 104.25 | 3 | Horizontal | 200 | 1.80 | - | 31.61 | 5.10 | 31.69 |
| AV | 5.1984G | 96.32 | Inf | -Inf | 91.30 | 3 | Horizontal | 200 | 1.80 | - | 31.61 | 5.10 | 31.69 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5200MHz_TX

21/04/2021



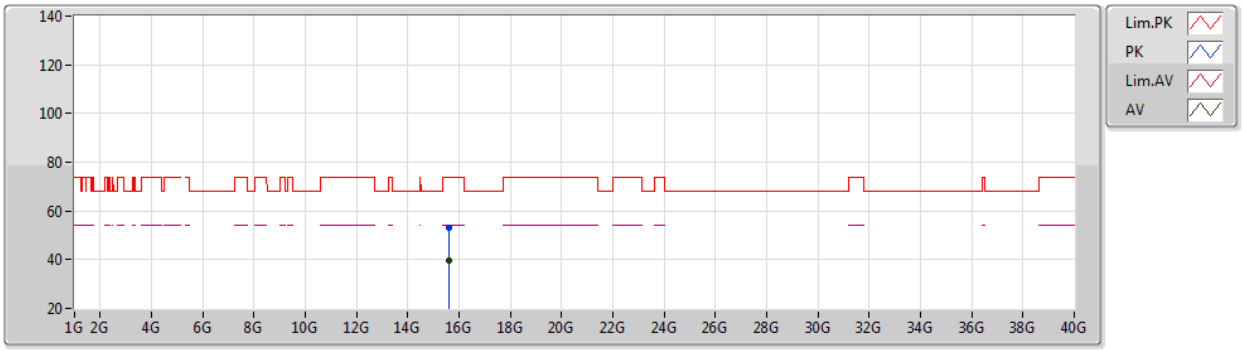

EUT Y_2TX
Setting 29
02-B-N-2

| 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 | 15.59396G | 52.30 | 74.00 | -21.70 | 38.46 | 3 | Vertical | 171 | 2.00 | - | 37.63 | 9.06 | 32.85 |
| AV | 15.6086G | 38.72 | 54.00 | -15.28 | 24.91 | 3 | Vertical | 171 | 2.00 | - | 37.60 | 9.06 | 32.85 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5200MHz_TX

21/04/2021



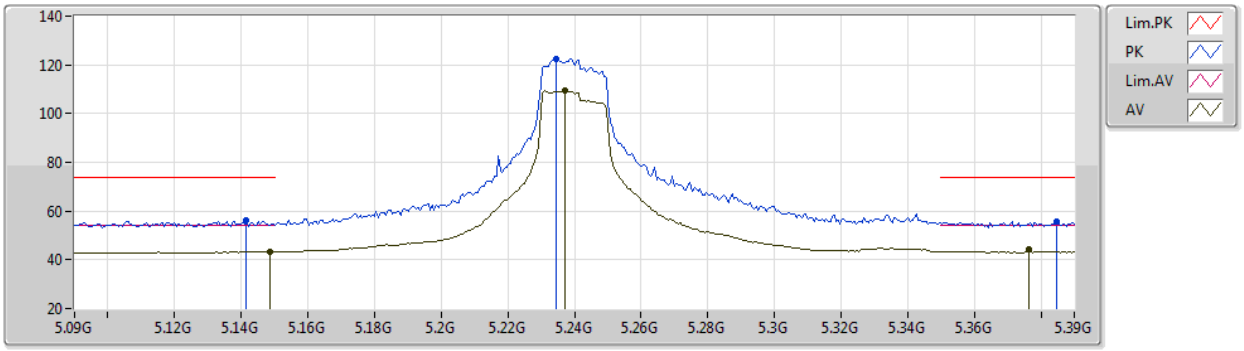

EUT Y_2TX
Setting 29
02-B-N-2

| 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 | 15.603G | 52.91 | 74.00 | -21.09 | 39.10 | 3 | Horizontal | 287 | 2.13 | - | 37.60 | 9.06 | 32.85 |
| AV | 15.59712G | 39.48 | 54.00 | -14.52 | 25.66 | 3 | Horizontal | 287 | 2.13 | - | 37.61 | 9.06 | 32.85 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5240MHz_TX

21/04/2021



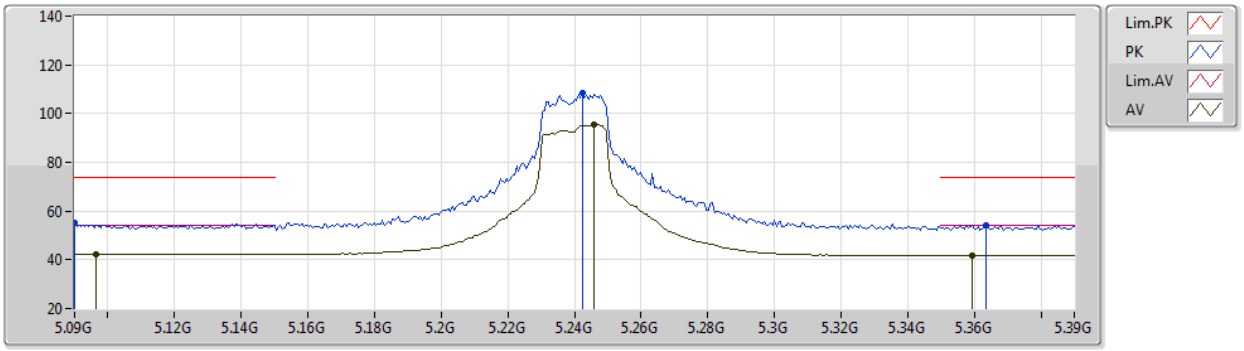

EUT Y_2TX
Setting 29
02-B-N-2-10

| 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 | 5.1416G | 56.37 | 74.00 | -17.63 | 51.30 | 3 | Vertical | 347 | 1.80 | - | 31.83 | 4.98 | 31.74 |
| AV | 5.1488G | 43.40 | 54.00 | -10.60 | 38.33 | 3 | Vertical | 347 | 1.80 | - | 31.80 | 5.00 | 31.73 |
| PK | 5.2346G | 122.65 | Inf | -Inf | 117.78 | 3 | Vertical | 347 | 1.80 | - | 31.46 | 5.08 | 31.67 |
| AV | 5.237G | 109.27 | Inf | -Inf | 104.40 | 3 | Vertical | 347 | 1.80 | - | 31.45 | 5.08 | 31.66 |
| PK | 5.3846G | 55.58 | 74.00 | -18.42 | 50.55 | 3 | Vertical | 347 | 1.80 | - | 31.58 | 5.01 | 31.56 |
| AV | 5.3762G | 44.51 | 54.00 | -9.49 | 39.55 | 3 | Vertical | 347 | 1.80 | - | 31.51 | 5.01 | 31.56 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5240MHz_TX

21/04/2021



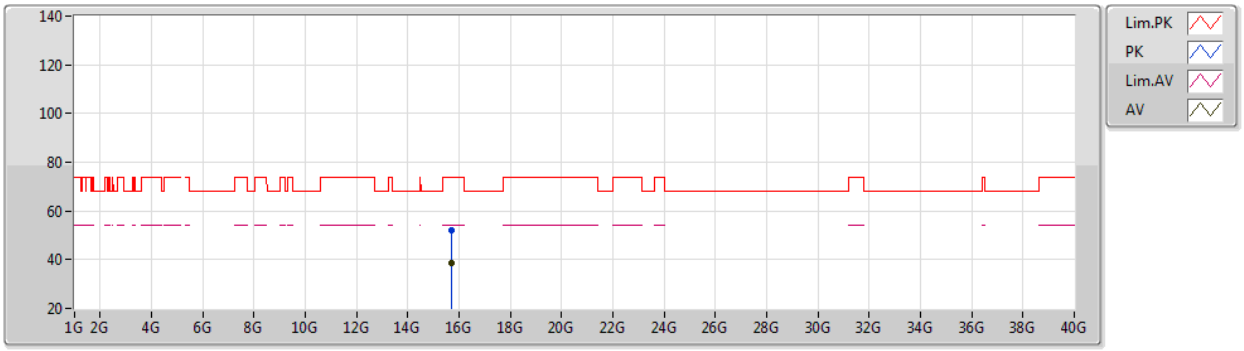

EUT Y_2TX
Setting 29
02-B-N-2-10

| 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 | 5.09G | 55.38 | 74.00 | -18.62 | 50.29 | 3 | Horizontal | 135 | 1.61 | - | 31.98 | 4.88 | 31.77 |
| AV | 5.0966G | 42.48 | 54.00 | -11.52 | 37.37 | 3 | Horizontal | 135 | 1.61 | - | 31.99 | 4.89 | 31.77 |
| PK | 5.2424G | 108.29 | Inf | -Inf | 103.44 | 3 | Horizontal | 135 | 1.61 | - | 31.43 | 5.08 | 31.66 |
| AV | 5.246G | 95.51 | Inf | -Inf | 90.67 | 3 | Horizontal | 135 | 1.61 | - | 31.42 | 5.08 | 31.66 |
| PK | 5.3636G | 54.20 | 74.00 | -19.80 | 49.34 | 3 | Horizontal | 135 | 1.61 | - | 31.41 | 5.02 | 31.57 |
| AV | 5.3594G | 41.83 | 54.00 | -12.17 | 37.00 | 3 | Horizontal | 135 | 1.61 | - | 31.38 | 5.02 | 31.57 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5240MHz_TX

21/04/2021



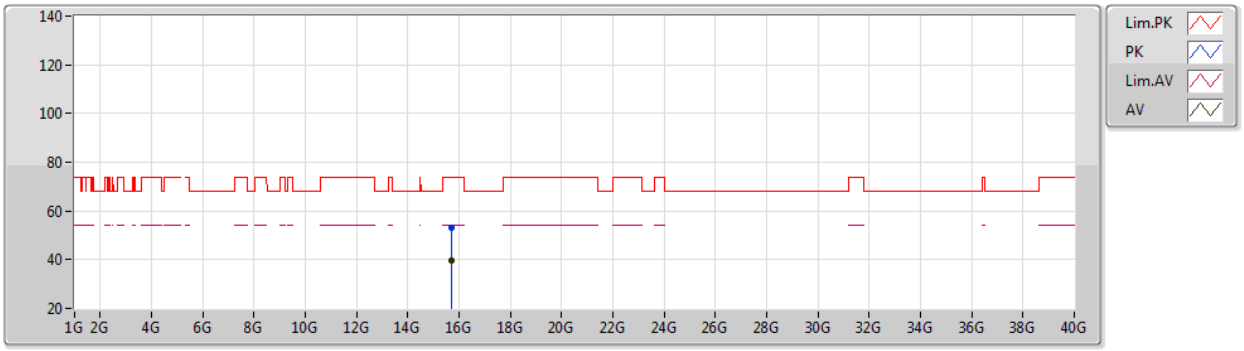

EUT Y_2TX
Setting 29
02-B-N-2

| 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 | 15.7134G | 51.99 | 74.00 | -22.01 | 38.19 | 3 | Vertical | 304 | 1.40 | - | 37.56 | 9.10 | 32.86 |
| AV | 15.71802G | 38.59 | 54.00 | -15.41 | 24.80 | 3 | Vertical | 304 | 1.40 | - | 37.55 | 9.10 | 32.86 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5240MHz_TX

21/04/2021



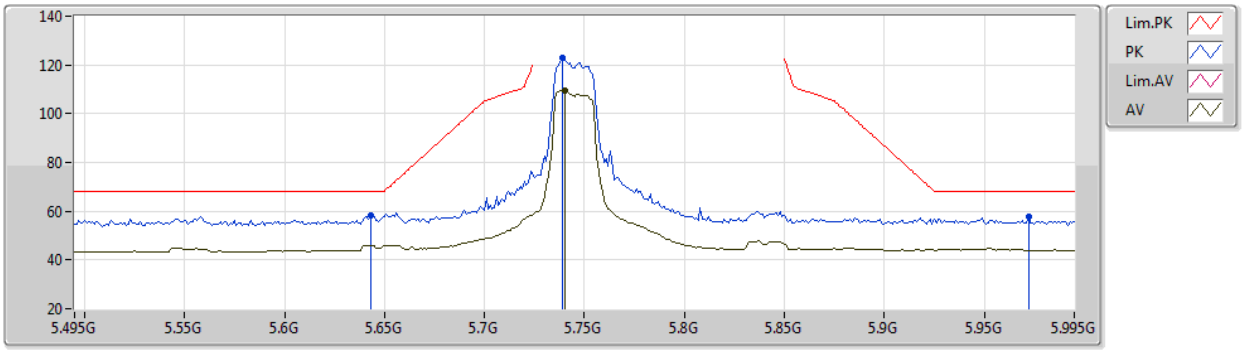

EUT Y_2TX
Setting 29
02-B-N-2

| 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 | 15.7287G | 53.04 | 74.00 | -20.96 | 39.28 | 3 | Horizontal | 26 | 1.10 | - | 37.51 | 9.11 | 32.86 |
| AV | 15.70518G | 39.59 | 54.00 | -14.41 | 25.77 | 3 | Horizontal | 26 | 1.10 | - | 37.58 | 9.10 | 32.86 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5745MHz_TX

21/04/2021



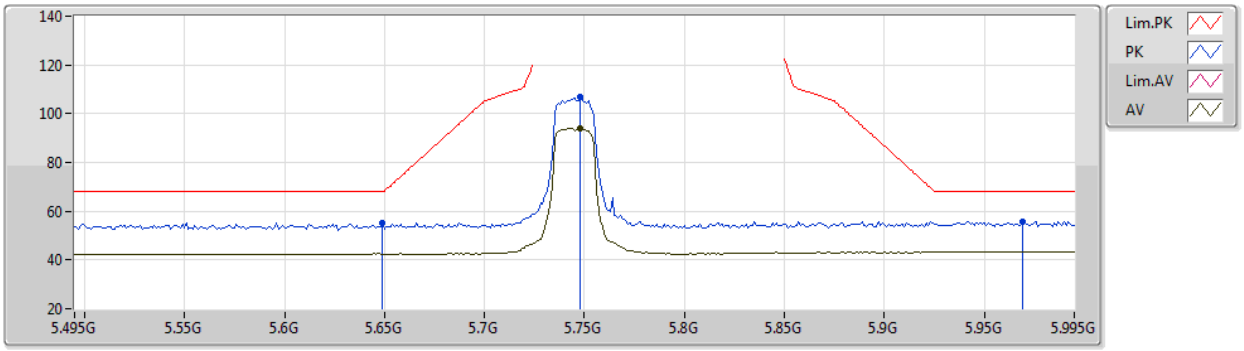

EUT Y_2TX
Setting 29
02-B-N-2-10

| 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 | 5.643G | 58.05 | 68.20 | -10.15 | 52.75 | 3 | Vertical | 279 | 1.96 | - | 31.60 | 5.16 | 31.46 |
| PK | 5.739G | 122.70 | Inf | -Inf | 117.22 | 3 | Vertical | 279 | 1.96 | - | 31.88 | 5.06 | 31.46 |
| AV | 5.74G | 109.69 | Inf | -Inf | 104.21 | 3 | Vertical | 279 | 1.96 | - | 31.88 | 5.06 | 31.46 |
| PK | 5.972G | 57.66 | 68.20 | -10.54 | 51.33 | 3 | Vertical | 279 | 1.96 | - | 32.26 | 5.52 | 31.45 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5745MHz_TX

21/04/2021



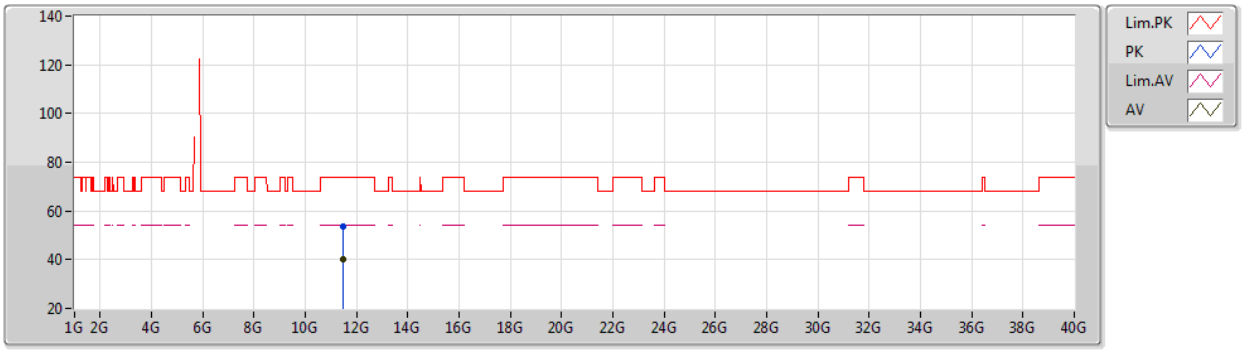

EUT Y_2TX
Setting 29
02-B-N-2-10

| 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 | 5.649G | 55.43 | 68.20 | -12.77 | 50.14 | 3 | Horizontal | 262 | 1.96 | - | 31.60 | 5.15 | 31.46 |
| PK | 5.748G | 106.72 | Inf | -Inf | 101.23 | 3 | Horizontal | 262 | 1.96 | - | 31.90 | 5.05 | 31.46 |
| AV | 5.748G | 94.07 | Inf | -Inf | 88.58 | 3 | Horizontal | 262 | 1.96 | - | 31.90 | 5.05 | 31.46 |
| PK | 5.969G | 55.81 | 68.20 | -12.39 | 49.49 | 3 | Horizontal | 262 | 1.96 | - | 32.26 | 5.51 | 31.45 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5745MHz_TX

21/04/2021



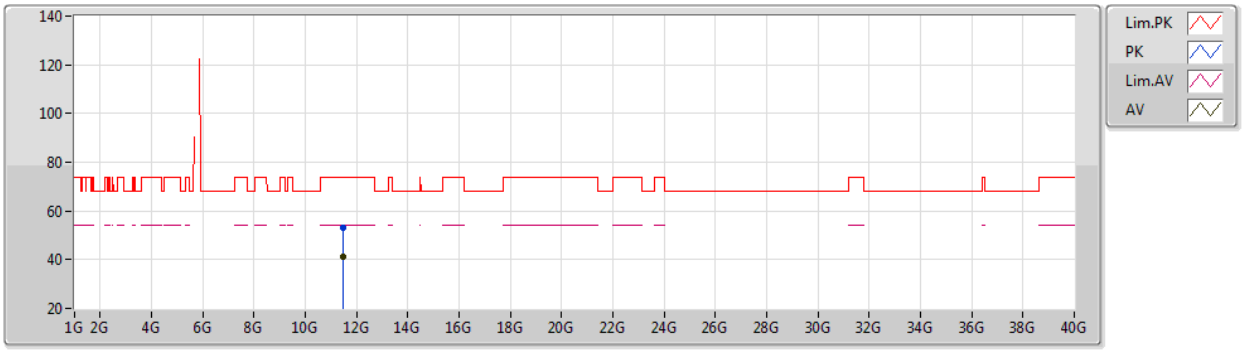

EUT Y_2TX
Setting 29
02-B-N-2

| 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 | 11.47944G | 53.41 | 74.00 | -20.59 | 38.41 | 3 | Vertical | 350 | 2.68 | - | 40.30 | 7.62 | 32.92 |
| AV | 11.48988G | 40.14 | 54.00 | -13.86 | 25.15 | 3 | Vertical | 350 | 2.68 | - | 40.30 | 7.62 | 32.93 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5745MHz_TX

21/04/2021



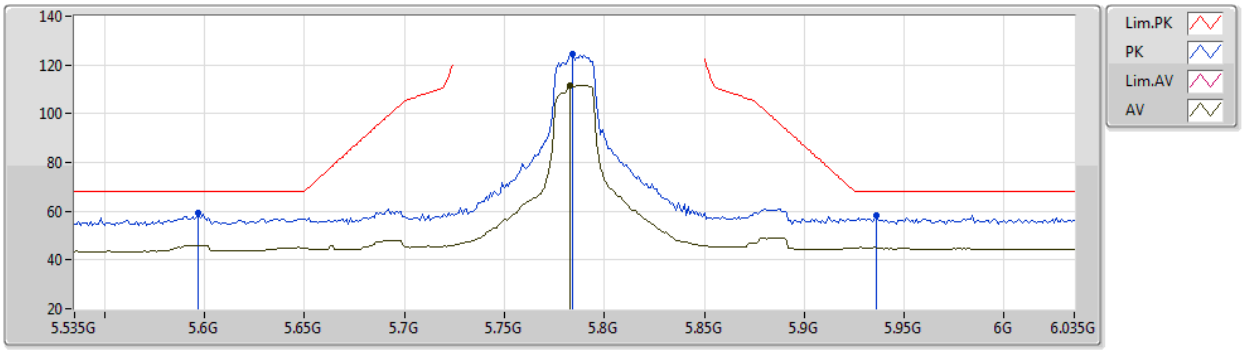

EUT Y_2TX
Setting 29
02-B-N-2

| 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 | 11.4753G | 53.12 | 74.00 | -20.88 | 38.12 | 3 | Horizontal | 209 | 2.82 | - | 40.30 | 7.62 | 32.92 |
| AV | 11.4783G | 41.21 | 54.00 | -12.79 | 26.21 | 3 | Horizontal | 209 | 2.82 | - | 40.30 | 7.62 | 32.92 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5785MHz_TX

21/04/2021



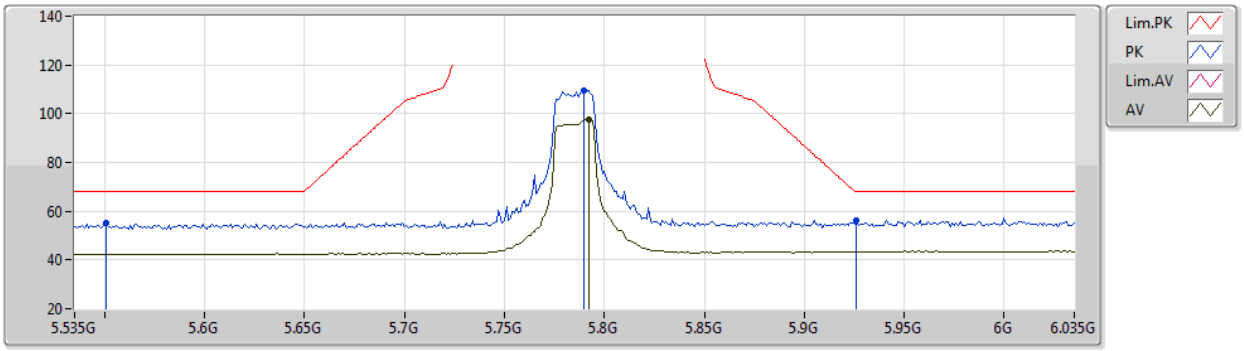

EUT Y_2TX
Setting 29
02-B-N-2-10

| 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 | 5.597G | 59.15 | 68.20 | -9.05 | 53.82 | 3 | Vertical | 135 | 1.88 | - | 31.60 | 5.20 | 31.47 |
| PK | 5.784G | 124.32 | Inf | -Inf | 118.86 | 3 | Vertical | 135 | 1.88 | - | 31.90 | 5.02 | 31.46 |
| AV | 5.783G | 111.75 | Inf | -Inf | 106.29 | 3 | Vertical | 135 | 1.88 | - | 31.90 | 5.02 | 31.46 |
| PK | 5.936G | 58.16 | 68.20 | -10.04 | 51.96 | 3 | Vertical | 135 | 1.88 | - | 32.24 | 5.41 | 31.45 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5785MHz_TX

21/04/2021



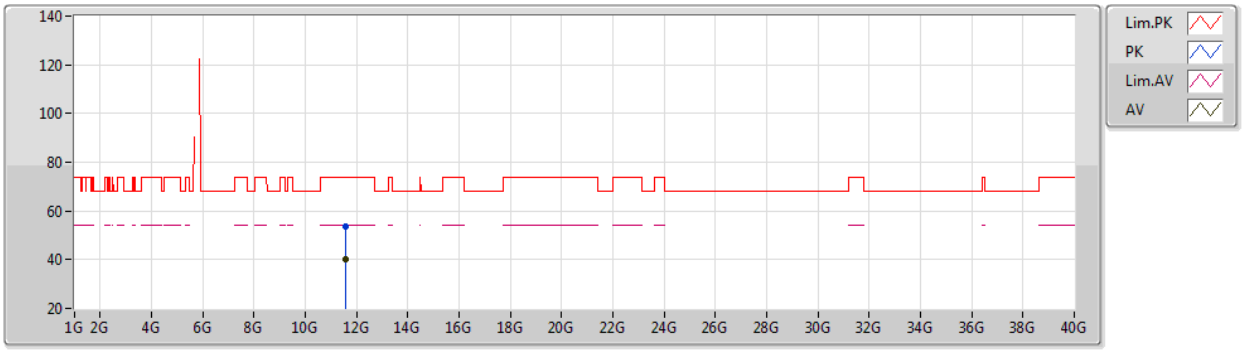

EUT Y_2TX
Setting 29
02-B-N-2-10

| 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 | 5.551G | 55.12 | 68.20 | -13.08 | 49.84 | 3 | Horizontal | 46 | 2.04 | - | 31.60 | 5.15 | 31.47 |
| PK | 5.79G | 109.71 | Inf | -Inf | 104.26 | 3 | Horizontal | 46 | 2.04 | - | 31.90 | 5.01 | 31.46 |
| AV | 5.792G | 97.69 | Inf | -Inf | 92.24 | 3 | Horizontal | 46 | 2.04 | - | 31.90 | 5.01 | 31.46 |
| PK | 5.926G | 56.32 | 68.20 | -11.88 | 50.19 | 3 | Horizontal | 46 | 2.04 | - | 32.20 | 5.38 | 31.45 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5785MHz_TX

21/04/2021



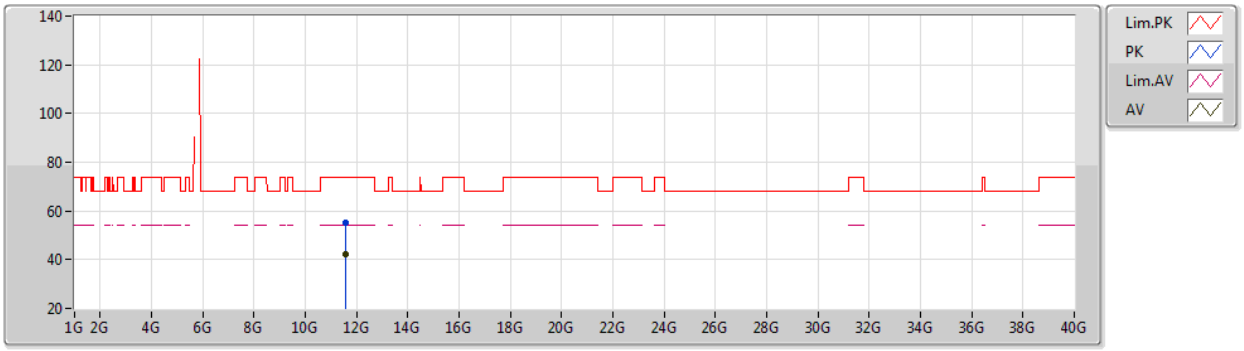

EUT Y_2TX
Setting 29
02-B-N-2

| 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 | 11.57456G | 53.51 | 74.00 | -20.49 | 38.71 | 3 | Vertical | 156 | 2.77 | - | 40.08 | 7.65 | 32.93 |
| AV | 11.56796G | 40.35 | 54.00 | -13.65 | 25.53 | 3 | Vertical | 156 | 2.77 | - | 40.10 | 7.65 | 32.93 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5785MHz_TX

21/04/2021



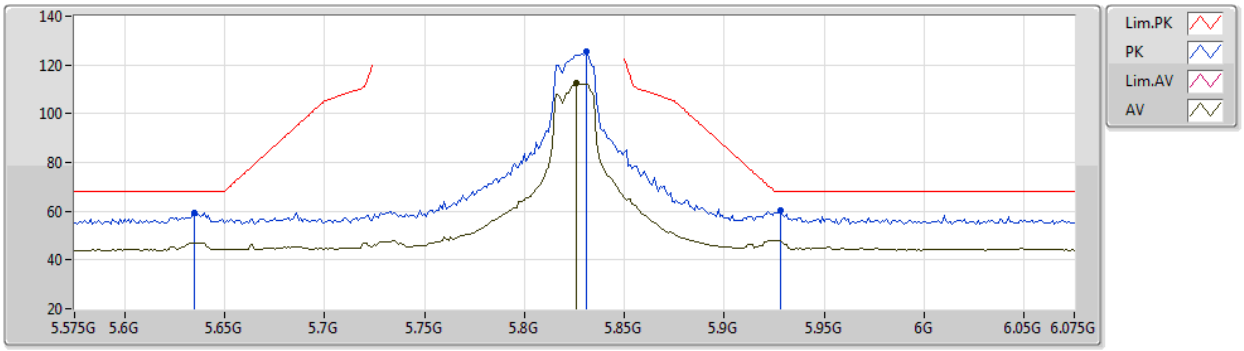

EUT Y_2TX
Setting 29
02-B-N-2

| 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 | 11.57162G | 54.98 | 74.00 | -19.02 | 40.17 | 3 | Horizontal | 300 | 1.54 | - | 40.09 | 7.65 | 32.93 |
| AV | 11.56964G | 42.12 | 54.00 | -11.88 | 27.31 | 3 | Horizontal | 300 | 1.54 | - | 40.09 | 7.65 | 32.93 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5825MHz_TX

21/04/2021



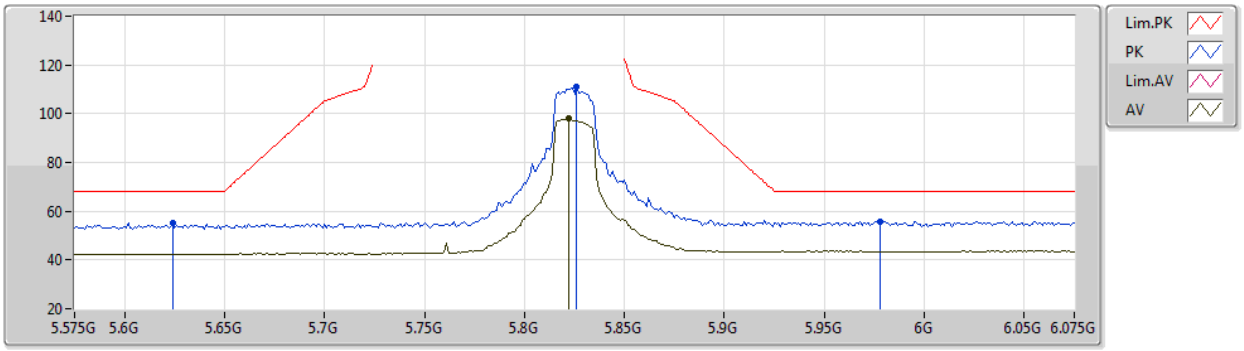

EUT Y_2TX
Setting 29
02-B-N-2-10

| 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 | 5.635G | 59.15 | 68.20 | -9.05 | 53.84 | 3 | Vertical | 153 | 1.80 | - | 31.60 | 5.17 | 31.46 |
| PK | 5.831G | 125.31 | Inf | -Inf | 119.66 | 3 | Vertical | 153 | 1.80 | - | 32.02 | 5.09 | 31.46 |
| AV | 5.826G | 112.43 | Inf | -Inf | 106.81 | 3 | Vertical | 153 | 1.80 | - | 32.00 | 5.08 | 31.46 |
| PK | 5.928G | 60.51 | 68.20 | -7.69 | 54.37 | 3 | Vertical | 153 | 1.80 | - | 32.21 | 5.38 | 31.45 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5825MHz_TX

21/04/2021



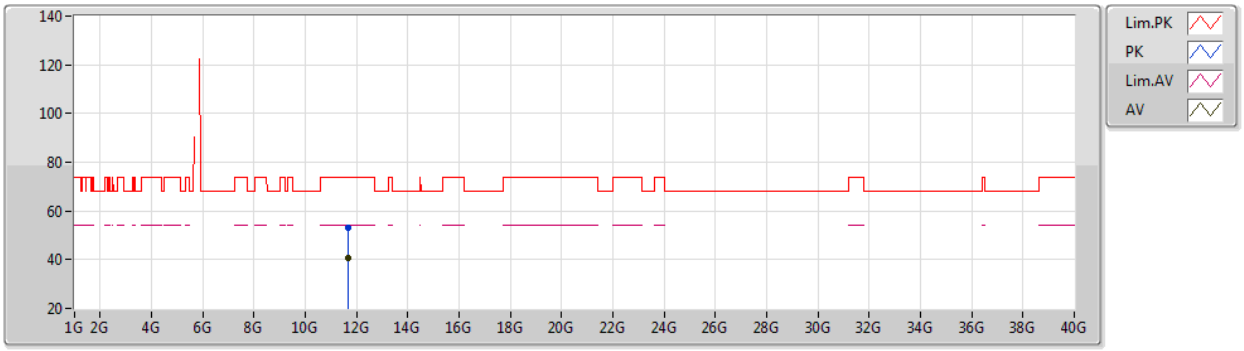

EUT Y_2TX
Setting 29
02-B-N-2-10

| 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 | 5.624G | 55.09 | 68.20 | -13.11 | 49.78 | 3 | Horizontal | 46 | 2.50 | - | 31.60 | 5.18 | 31.47 |
| PK | 5.826G | 110.90 | Inf | -Inf | 105.28 | 3 | Horizontal | 46 | 2.50 | - | 32.00 | 5.08 | 31.46 |
| AV | 5.822G | 98.06 | Inf | -Inf | 92.46 | 3 | Horizontal | 46 | 2.50 | - | 31.99 | 5.07 | 31.46 |
| PK | 5.978G | 55.80 | 68.20 | -12.40 | 49.48 | 3 | Horizontal | 46 | 2.50 | - | 32.24 | 5.53 | 31.45 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5825MHz_TX

21/04/2021



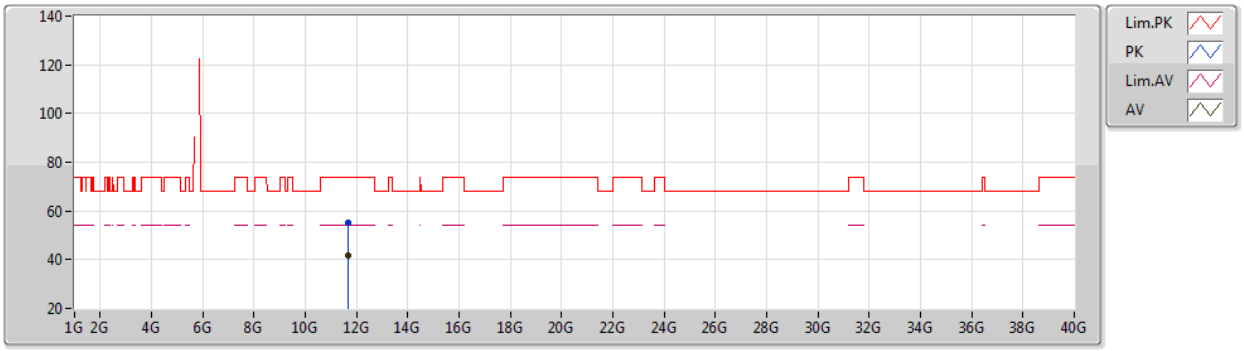

EUT Y_2TX
Setting 29
02-B-N-2

| 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 | 11.64868G | 53.21 | 74.00 | -20.79 | 38.80 | 3 | Vertical | 360 | 1.90 | - | 39.66 | 7.68 | 32.93 |
| AV | 11.64808G | 40.54 | 54.00 | -13.46 | 26.13 | 3 | Vertical | 360 | 1.90 | - | 39.66 | 7.68 | 32.93 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5825MHz_TX

21/04/2021



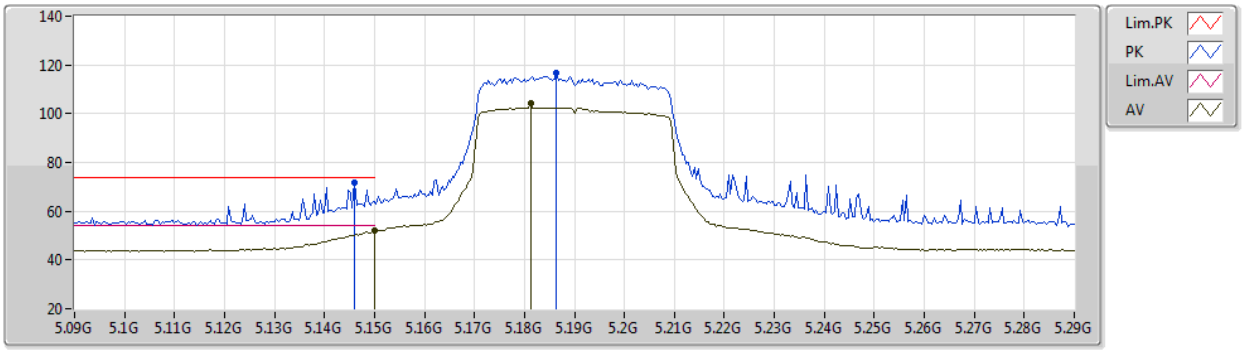

EUT Y_2TX
Setting 29
02-B-N-2

| 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 | 11.65456G | 55.40 | 74.00 | -18.60 | 41.03 | 3 | Horizontal | 210 | 1.94 | - | 39.62 | 7.68 | 32.93 |
| AV | 11.65G | 41.69 | 54.00 | -12.31 | 27.29 | 3 | Horizontal | 210 | 1.94 | - | 39.65 | 7.68 | 32.93 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5190MHz_TX

21/04/2021



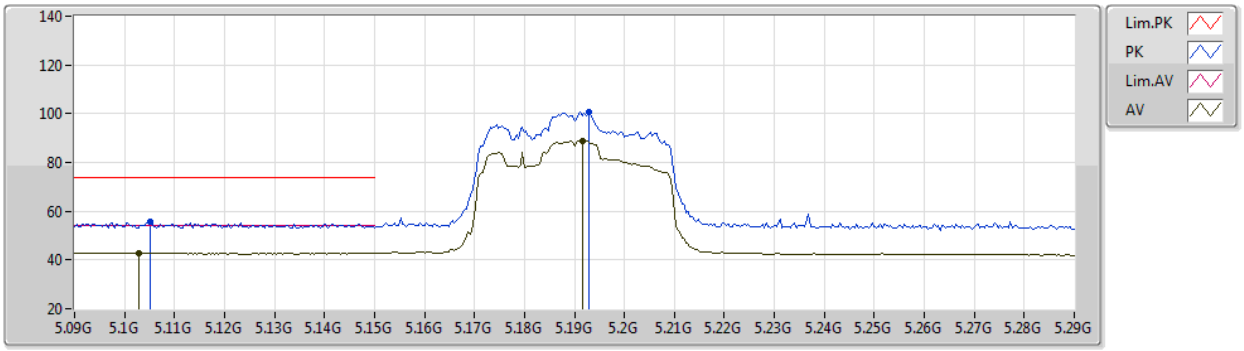

EUT Y_2TX
Setting 21
02-B-R-5-10

| 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 | 5.146G | 71.93 | 74.00 | -2.07 | 66.85 | 3 | Vertical | 249 | 2.25 | - | 31.82 | 4.99 | 31.73 |
| AV | 5.15G | 51.82 | 54.00 | -2.18 | 46.75 | 3 | Vertical | 249 | 2.25 | - | 31.80 | 5.00 | 31.73 |
| PK | 5.1864G | 116.57 | Inf | -Inf | 111.55 | 3 | Vertical | 249 | 2.25 | - | 31.65 | 5.07 | 31.70 |
| AV | 5.1812G | 104.08 | Inf | -Inf | 99.05 | 3 | Vertical | 249 | 2.25 | - | 31.68 | 5.06 | 31.71 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5190MHz_TX

21/04/2021



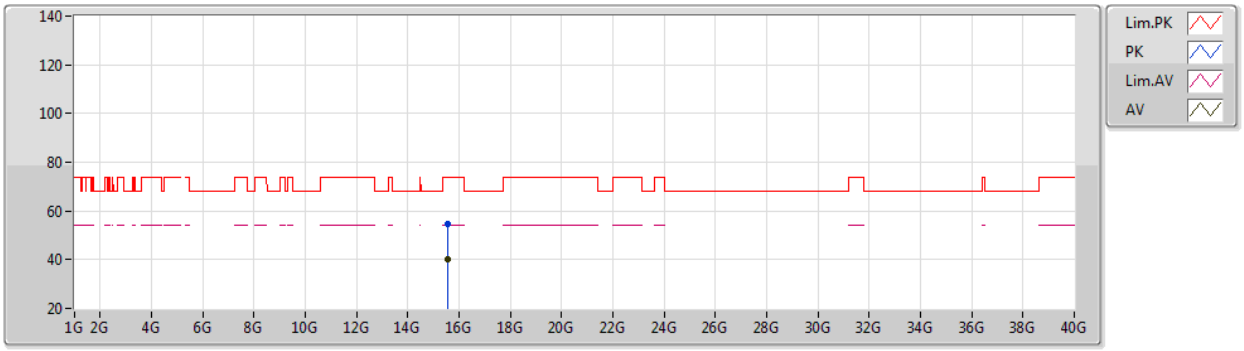

EUT Y_2TX
Setting 21
02-B-R-5-10

| 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 | 5.1052G | 55.58 | 74.00 | -18.42 | 50.45 | 3 | Horizontal | 57 | 1.53 | - | 31.98 | 4.91 | 31.76 |
| AV | 5.1028G | 43.01 | 54.00 | -10.99 | 37.87 | 3 | Horizontal | 57 | 1.53 | - | 31.99 | 4.91 | 31.76 |
| PK | 5.1928G | 100.70 | Inf | -Inf | 95.68 | 3 | Horizontal | 57 | 1.53 | - | 31.63 | 5.09 | 31.70 |
| AV | 5.1916G | 88.93 | Inf | -Inf | 83.92 | 3 | Horizontal | 57 | 1.53 | - | 31.63 | 5.08 | 31.70 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5190MHz_TX

21/04/2021



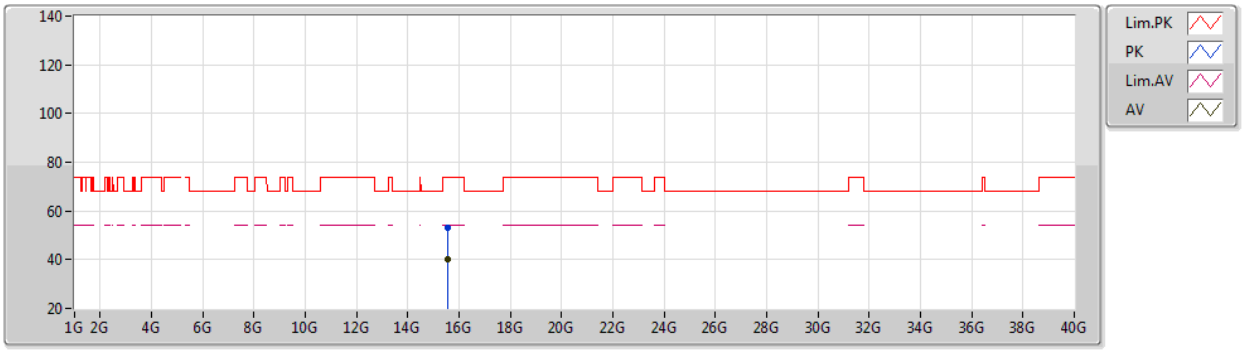

EUT Y_2TX
Setting 21
02-B-R-5

| 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 | 15.5768G | 54.50 | 74.00 | -19.50 | 40.58 | 3 | Vertical | 315 | 1.19 | - | 37.72 | 9.05 | 32.85 |
| AV | 15.57296G | 40.08 | 54.00 | -13.92 | 26.14 | 3 | Vertical | 315 | 1.19 | - | 37.74 | 9.05 | 32.85 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5190MHz_TX

21/04/2021



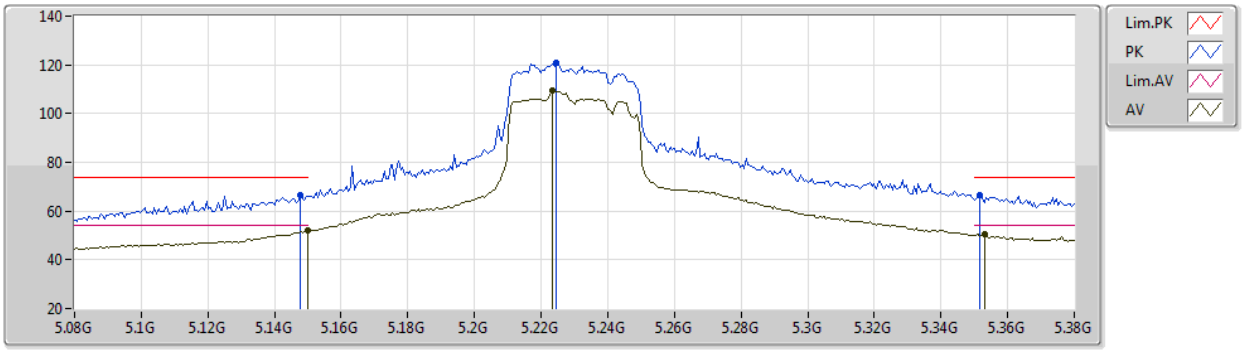

EUT Y_2TX
Setting 21
02-B-R-5

| 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 | 15.56388G | 53.15 | 74.00 | -20.85 | 39.17 | 3 | Horizontal | 262 | 1.43 | - | 37.78 | 9.05 | 32.85 |
| AV | 15.57344G | 40.07 | 54.00 | -13.93 | 26.14 | 3 | Horizontal | 262 | 1.43 | - | 37.73 | 9.05 | 32.85 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5230MHz_TX

21/04/2021



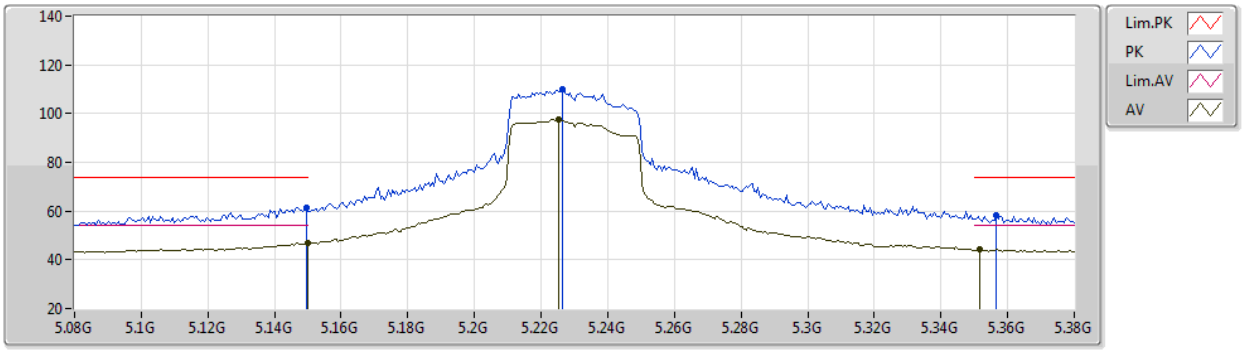

EUT Y_2TX
Setting 28
02-B-R-5-10

| 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 | 5.1478G | 66.33 | 74.00 | -7.67 | 61.25 | 3 | Vertical | 117 | 1.26 | - | 31.81 | 5.00 | 31.73 |
| AV | 5.15G | 52.31 | 54.00 | -1.69 | 47.24 | 3 | Vertical | 117 | 1.26 | - | 31.80 | 5.00 | 31.73 |
| PK | 5.2246G | 121.08 | Inf | -Inf | 116.16 | 3 | Vertical | 117 | 1.26 | - | 31.50 | 5.09 | 31.67 |
| AV | 5.2234G | 109.38 | Inf | -Inf | 104.45 | 3 | Vertical | 117 | 1.26 | - | 31.51 | 5.09 | 31.67 |
| PK | 5.3518G | 66.71 | 74.00 | -7.29 | 61.96 | 3 | Vertical | 117 | 1.26 | - | 31.31 | 5.02 | 31.58 |
| AV | 5.353G | 50.41 | 54.00 | -3.59 | 45.65 | 3 | Vertical | 117 | 1.26 | - | 31.32 | 5.02 | 31.58 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5230MHz_TX

21/04/2021



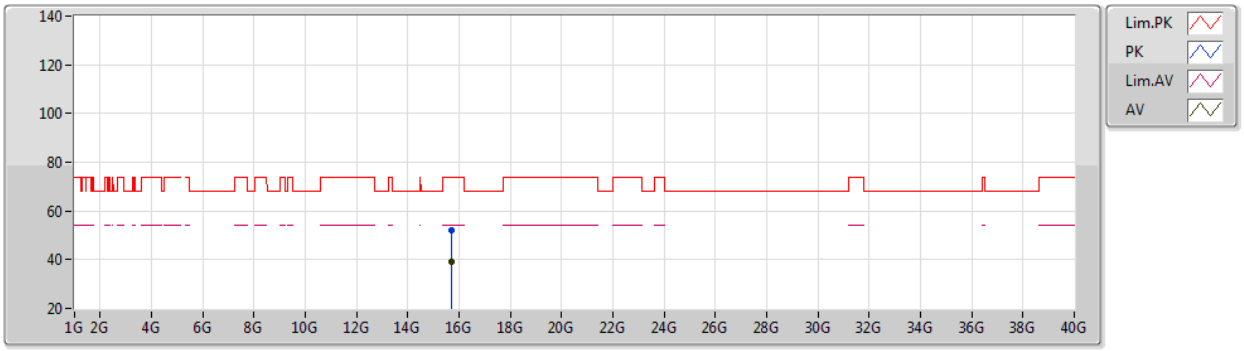

EUT Y_2TX
Setting 28
02-B-R-5-10

| 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 | 5.1496G | 61.55 | 74.00 | -12.45 | 56.48 | 3 | Horizontal | 100 | 2.78 | - | 31.80 | 5.00 | 31.73 |
| AV | 5.15G | 46.95 | 54.00 | -7.05 | 41.88 | 3 | Horizontal | 100 | 2.78 | - | 31.80 | 5.00 | 31.73 |
| PK | 5.2264G | 110.00 | Inf | -Inf | 105.09 | 3 | Horizontal | 100 | 2.78 | - | 31.49 | 5.09 | 31.67 |
| AV | 5.2252G | 97.41 | Inf | -Inf | 92.49 | 3 | Horizontal | 100 | 2.78 | - | 31.50 | 5.09 | 31.67 |
| PK | 5.3566G | 58.13 | 74.00 | -15.87 | 53.34 | 3 | Horizontal | 100 | 2.78 | - | 31.35 | 5.02 | 31.58 |
| AV | 5.3518G | 44.07 | 54.00 | -9.93 | 39.32 | 3 | Horizontal | 100 | 2.78 | - | 31.31 | 5.02 | 31.58 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5230MHz_TX

21/04/2021



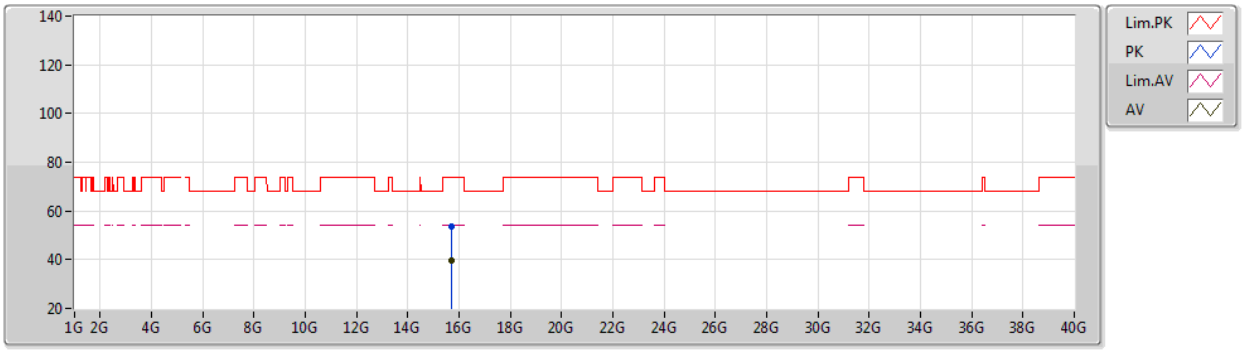

EUT Y_2TX
Setting 28
02-B-R-5

| 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 | 15.69068G | 52.23 | 74.00 | -21.77 | 38.40 | 3 | Vertical | 13 | 1.79 | - | 37.60 | 9.09 | 32.86 |
| AV | 15.6966G | 39.30 | 54.00 | -14.70 | 25.47 | 3 | Vertical | 13 | 1.79 | - | 37.60 | 9.09 | 32.86 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5230MHz_TX

21/04/2021



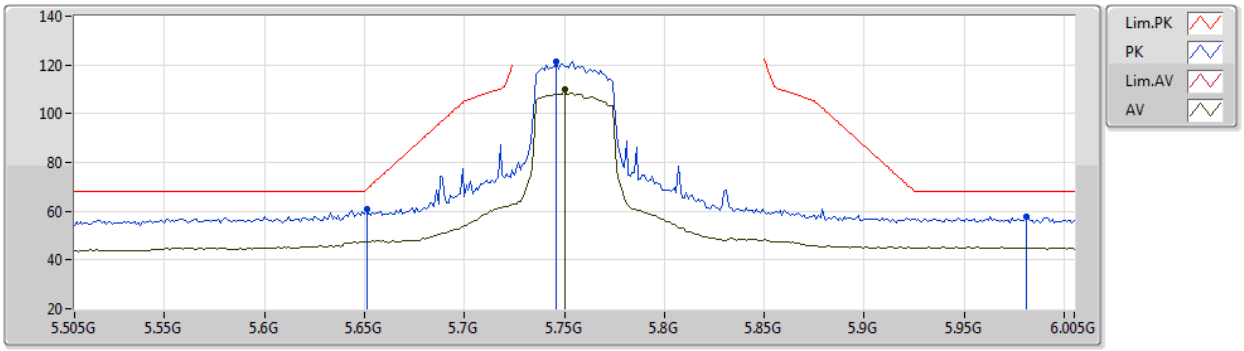

EUT Y_2TX
Setting 28
02-B-R-5

| 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 | 15.68832G | 53.69 | 74.00 | -20.31 | 39.86 | 3 | Horizontal | 207 | 1.33 | - | 37.60 | 9.09 | 32.86 |
| AV | 15.68708G | 39.79 | 54.00 | -14.21 | 25.95 | 3 | Horizontal | 207 | 1.33 | - | 37.60 | 9.09 | 32.85 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5755MHz_TX

21/04/2021



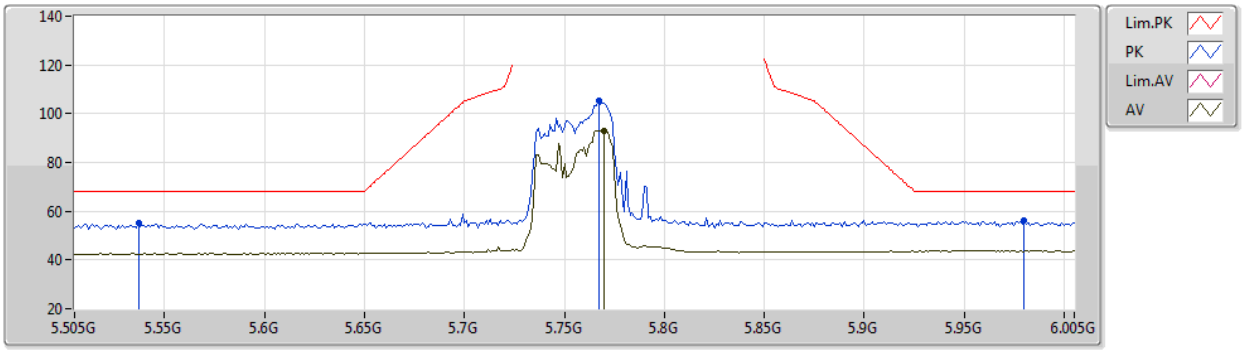

EUT Y_2TX
Setting 28
02-B-R-5-10

| 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 | 5.651G | 61.02 | 68.94 | -7.92 | 55.73 | 3 | Vertical | 136 | 1.79 | - | 31.60 | 5.15 | 31.46 |
| PK | 5.746G | 121.40 | Inf | -Inf | 115.92 | 3 | Vertical | 136 | 1.79 | - | 31.89 | 5.05 | 31.46 |
| AV | 5.75G | 110.20 | Inf | -Inf | 104.71 | 3 | Vertical | 136 | 1.79 | - | 31.90 | 5.05 | 31.46 |
| PK | 5.981G | 57.81 | 68.20 | -10.39 | 51.48 | 3 | Vertical | 136 | 1.79 | - | 32.24 | 5.54 | 31.45 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

21/04/2021

## 5755MHz_TX



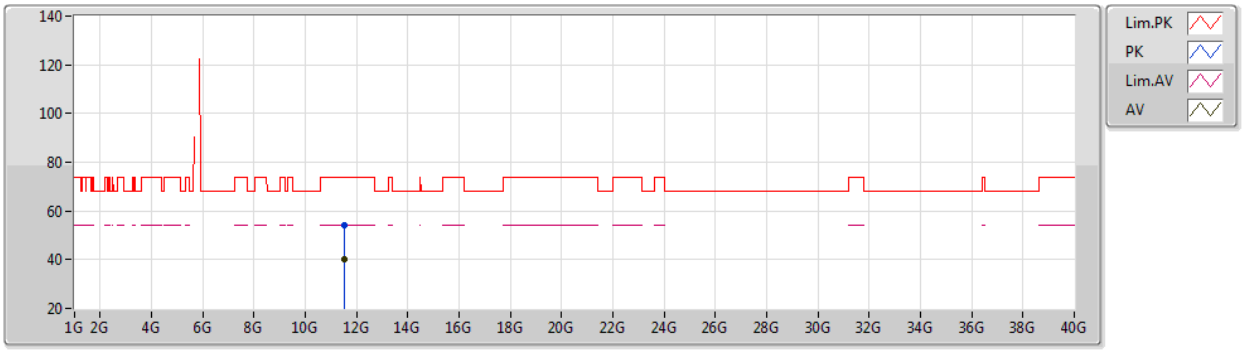

EUT Y_2TX
Setting 28
02-B-R-5-10

| 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 | 5.537G | 55.14 | 68.20 | -13.06 | 49.84 | 3 | Horizontal | 185 | 2.77 | - | 31.63 | 5.14 | 31.47 |
| PK | 5.767G | 105.47 | Inf | -Inf | 100.00 | 3 | Horizontal | 185 | 2.77 | - | 31.90 | 5.03 | 31.46 |
| AV | 5.77G | 93.16 | Inf | -Inf | 87.69 | 3 | Horizontal | 185 | 2.77 | - | 31.90 | 5.03 | 31.46 |
| PK | 5.98G | 56.33 | 68.20 | -11.87 | 50.00 | 3 | Horizontal | 185 | 2.77 | - | 32.24 | 5.54 | 31.45 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5755MHz_TX

21/04/2021



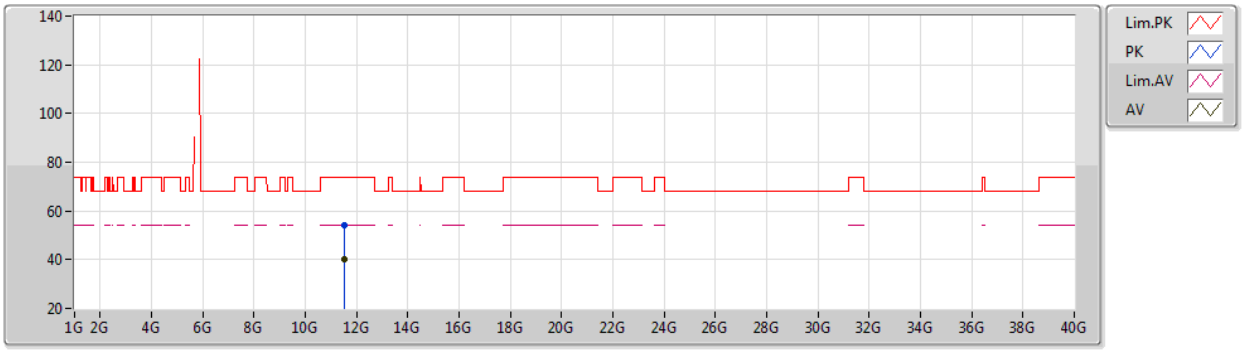

EUT Y_2TX
Setting 28
02-B-R-5

| 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 | 11.51068G | 53.97 | 74.00 | -20.03 | 39.00 | 3 | Vertical | 202 | 2.30 | - | 40.27 | 7.63 | 32.93 |
| AV | 11.50504G | 40.14 | 54.00 | -13.86 | 25.16 | 3 | Vertical | 202 | 2.30 | - | 40.28 | 7.63 | 32.93 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5755MHz_TX

21/04/2021



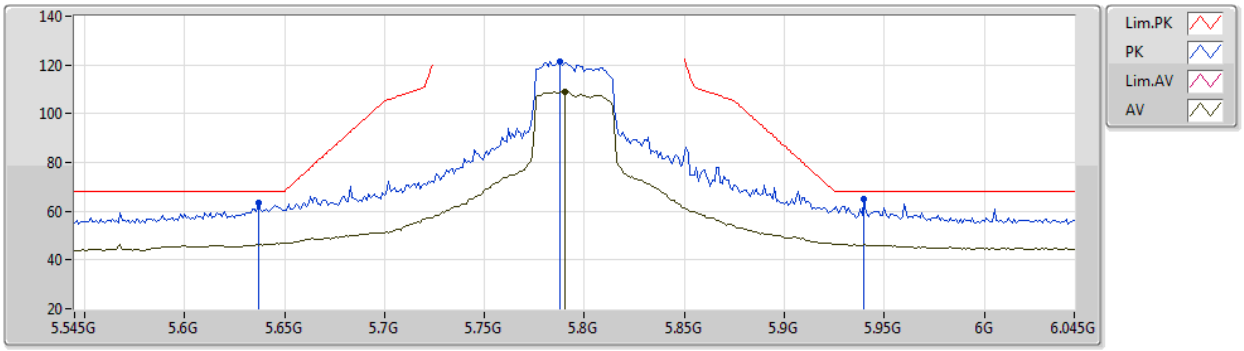

EUT Y_2TX
Setting 28
02-B-R-5

| 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 | 11.51624G | 54.01 | 74.00 | -19.99 | 39.06 | 3 | Horizontal | 73 | 1.63 | - | 40.25 | 7.63 | 32.93 |
| AV | 11.50376G | 40.02 | 54.00 | -13.98 | 25.03 | 3 | Horizontal | 73 | 1.63 | - | 40.29 | 7.63 | 32.93 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5795MHz_TX

21/04/2021



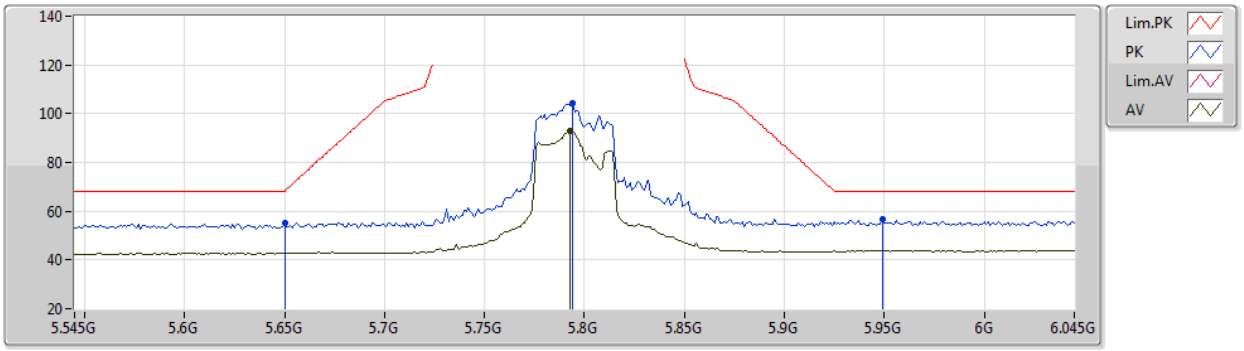

EUT Y_2TX
Setting 29
02-B-R-5-10

| 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 | 5.637G | 63.23 | 68.20 | -4.97 | 57.93 | 3 | Vertical | 155 | 1.96 | - | 31.60 | 5.16 | 31.46 |
| PK | 5.788G | 121.49 | Inf | -Inf | 116.04 | 3 | Vertical | 155 | 1.96 | - | 31.90 | 5.01 | 31.46 |
| AV | 5.79G | 108.97 | Inf | -Inf | 103.52 | 3 | Vertical | 155 | 1.96 | - | 31.90 | 5.01 | 31.46 |
| PK | 5.94G | 64.92 | 68.20 | -3.28 | 58.69 | 3 | Vertical | 155 | 1.96 | - | 32.26 | 5.42 | 31.45 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5795MHz_TX

21/04/2021



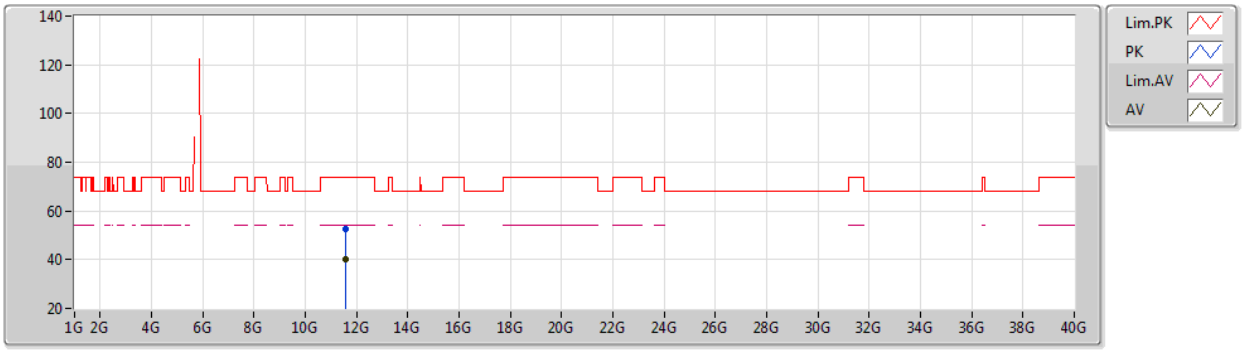

EUT Y_2TX
Setting 29
02-B-R-5-10

| 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 | 5.65G | 55.42 | 68.20 | -12.78 | 50.13 | 3 | Horizontal | 4 | 1.47 | - | 31.60 | 5.15 | 31.46 |
| PK | 5.794G | 104.15 | Inf | -Inf | 98.70 | 3 | Horizontal | 4 | 1.47 | - | 31.90 | 5.01 | 31.46 |
| AV | 5.793G | 93.06 | Inf | -Inf | 87.61 | 3 | Horizontal | 4 | 1.47 | - | 31.90 | 5.01 | 31.46 |
| PK | 5.949G | 56.98 | 68.20 | -11.22 | 50.68 | 3 | Horizontal | 4 | 1.47 | - | 32.30 | 5.45 | 31.45 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5795MHz_TX

21/04/2021



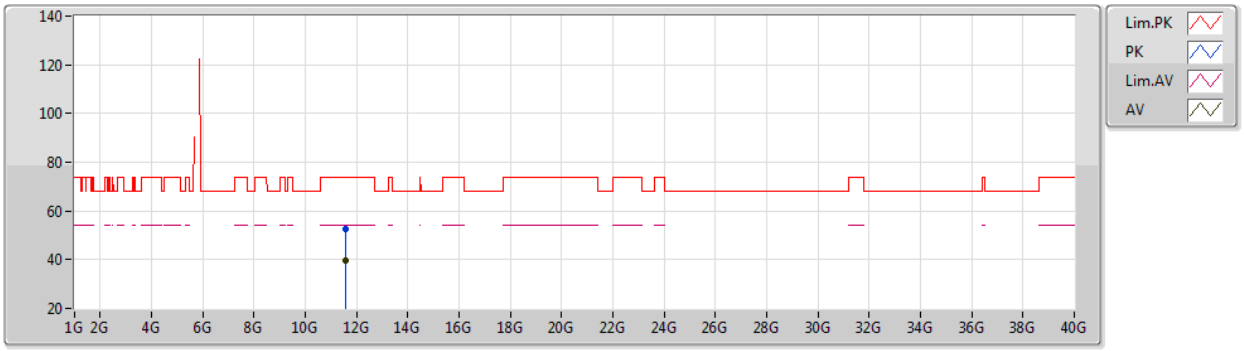

EUT Y_2TX
Setting 29
02-B-R-5

| 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 | 11.58172G | 52.83 | 74.00 | -21.17 | 38.06 | 3 | Vertical | 235 | 1.83 | - | 40.05 | 7.65 | 32.93 |
| AV | 11.59276G | 40.00 | 54.00 | -14.00 | 25.25 | 3 | Vertical | 235 | 1.83 | - | 40.02 | 7.66 | 32.93 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5795MHz_TX

21/04/2021



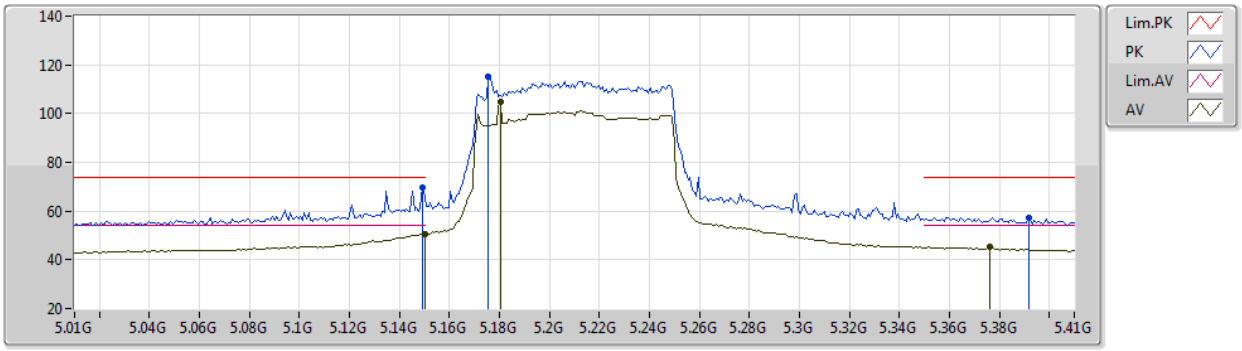

EUT Y_2TX
Setting 29
02-B-R-5

| 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 | 11.5926G | 52.78 | 74.00 | -21.22 | 38.03 | 3 | Horizontal | 163 | 2.06 | - | 40.02 | 7.66 | 32.93 |
| AV | 11.58052G | 39.85 | 54.00 | -14.15 | 25.07 | 3 | Horizontal | 163 | 2.06 | - | 40.06 | 7.65 | 32.93 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX

## 5210MHz_TX

21/04/2021



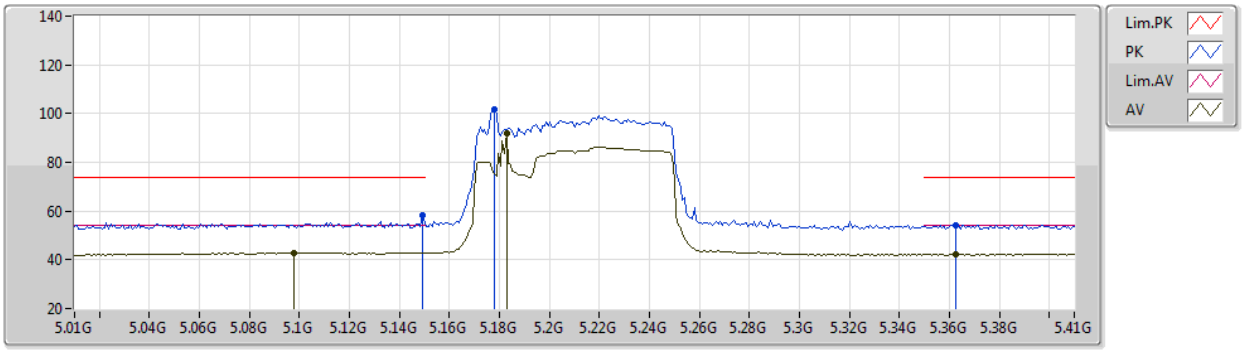

EUT Y_2TX
Setting 23
02-B-R-5-10

| 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 | 5.1492G | 69.46 | 74.00 | -4.54 | 64.39 | 3 | Vertical | 247 | 1.50 | - | 31.80 | 5.00 | 31.73 |
| AV | 5.15G | 50.55 | 54.00 | -3.45 | 45.48 | 3 | Vertical | 247 | 1.50 | - | 31.80 | 5.00 | 31.73 |
| PK | 5.1756G | 115.20 | Inf | -Inf | 110.16 | 3 | Vertical | 247 | 1.50 | - | 31.70 | 5.05 | 31.71 |
| AV | 5.1804G | 104.61 | Inf | -Inf | 99.58 | 3 | Vertical | 247 | 1.50 | - | 31.68 | 5.06 | 31.71 |
| PK | 5.3916G | 57.35 | 74.00 | -16.65 | 52.27 | 3 | Vertical | 247 | 1.50 | - | 31.63 | 5.00 | 31.55 |
| AV | 5.3764G | 45.58 | 54.00 | -8.42 | 40.62 | 3 | Vertical | 247 | 1.50 | - | 31.51 | 5.01 | 31.56 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX

## 5210MHz_TX

21/04/2021



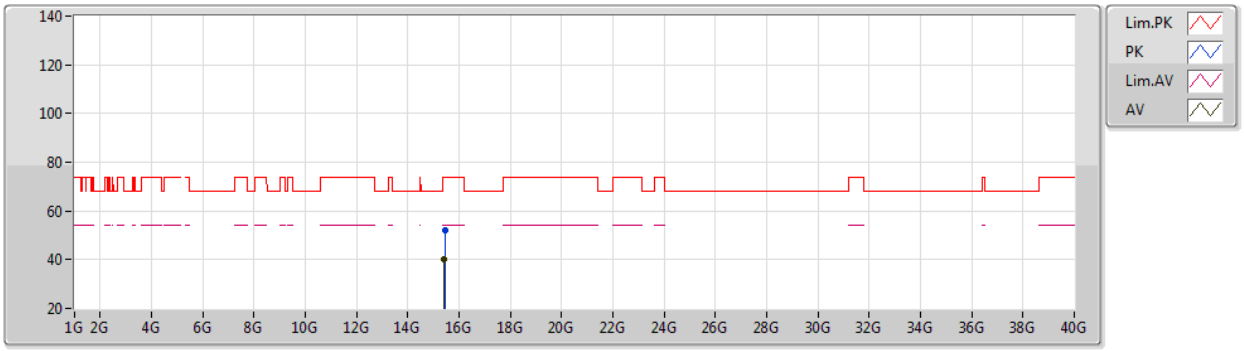

EUT Y_2TX
Setting 23
02-B-R-5-10

| 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 | 5.1492G | 58.06 | 74.00 | -15.94 | 52.99 | 3 | Horizontal | 136 | 1.65 | - | 31.80 | 5.00 | 31.73 |
| AV | 5.098G | 42.94 | 54.00 | -11.06 | 37.81 | 3 | Horizontal | 136 | 1.65 | - | 32.00 | 4.90 | 31.77 |
| PK | 5.178G | 101.76 | Inf | -Inf | 96.72 | 3 | Horizontal | 136 | 1.65 | - | 31.69 | 5.06 | 31.71 |
| AV | 5.1828G | 91.78 | Inf | -Inf | 86.74 | 3 | Horizontal | 136 | 1.65 | - | 31.67 | 5.07 | 31.70 |
| PK | 5.3628G | 54.36 | 74.00 | -19.64 | 49.51 | 3 | Horizontal | 136 | 1.65 | - | 31.40 | 5.02 | 31.57 |
| AV | 5.3628G | 42.21 | 54.00 | -11.79 | 37.36 | 3 | Horizontal | 136 | 1.65 | - | 31.40 | 5.02 | 31.57 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX

## 5210MHz_TX

21/04/2021



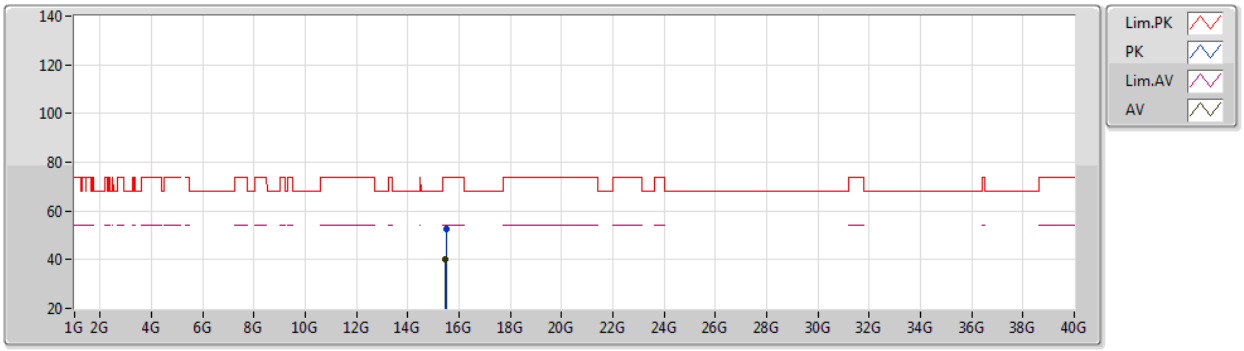

EUT Y_2TX
Setting 23
02-B-R-5

| 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 | 15.4724G | 52.14 | 74.00 | -21.86 | 37.69 | 3 | Vertical | 225 | 1.48 | - | 38.27 | 9.02 | 32.84 |
| AV | 15.434G | 40.15 | 54.00 | -13.85 | 25.49 | 3 | Vertical | 225 | 1.48 | - | 38.50 | 9.00 | 32.84 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX

## 5210MHz_TX

21/04/2021



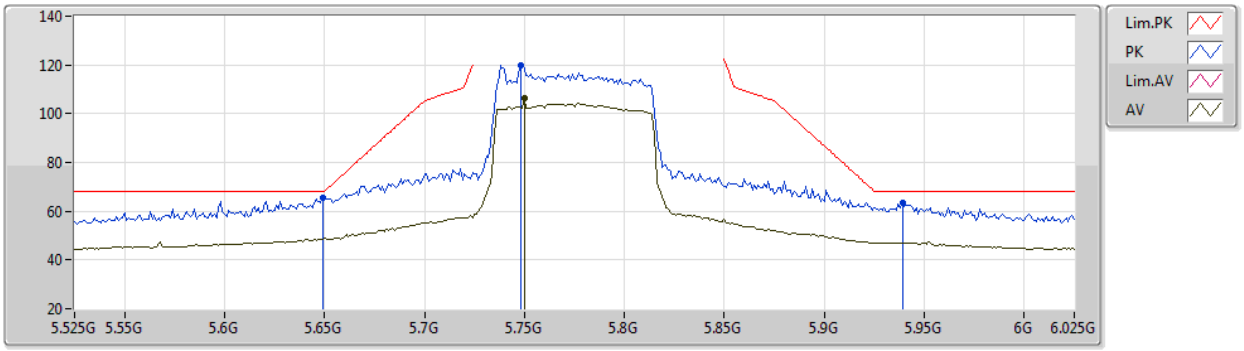

EUT Y_2TX
Setting 23
02-B-R-5

| 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 | 15.506G | 52.34 | 74.00 | -21.66 | 38.08 | 3 | Horizontal | 18 | 1.65 | - | 38.07 | 9.03 | 32.84 |
| AV | 15.438G | 40.35 | 54.00 | -13.65 | 25.72 | 3 | Horizontal | 18 | 1.65 | - | 38.47 | 9.00 | 32.84 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX

## 5775MHz_TX

21/04/2021



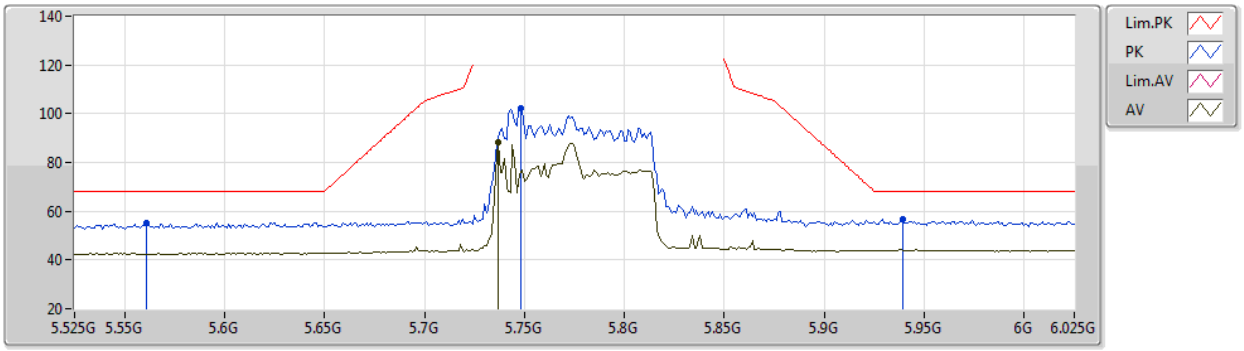

EUT Y_2TX
Setting 27
02-B-R-5-10

| 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 | 5.649G | 65.49 | 68.20 | -2.71 | 60.20 | 3 | Vertical | 156 | 1.76 | - | 31.60 | 5.15 | 31.46 |
| PK | 5.748G | 119.74 | Inf | -Inf | 114.25 | 3 | Vertical | 156 | 1.76 | - | 31.90 | 5.05 | 31.46 |
| AV | 5.75G | 106.41 | Inf | -Inf | 100.92 | 3 | Vertical | 156 | 1.76 | - | 31.90 | 5.05 | 31.46 |
| PK | 5.939G | 63.44 | 68.20 | -4.76 | 57.21 | 3 | Vertical | 156 | 1.76 | - | 32.26 | 5.42 | 31.45 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX

## 5775MHz_TX

21/04/2021



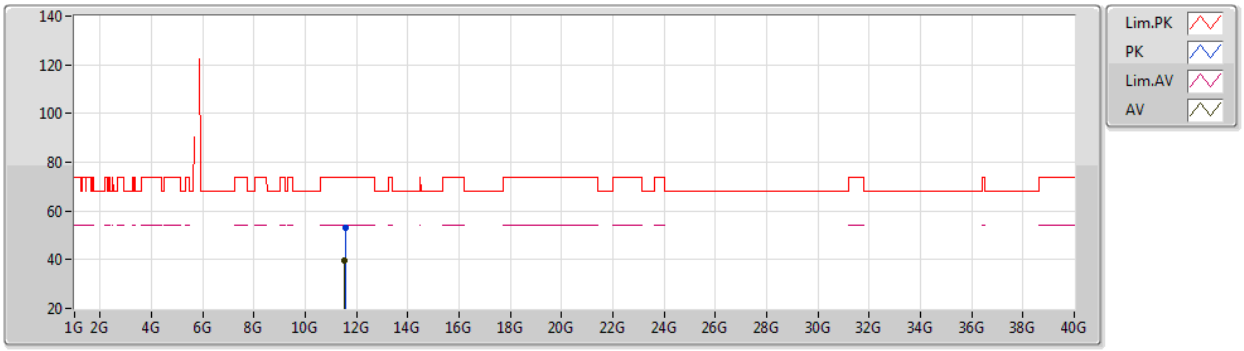

EUT Y_2TX
Setting 27
02-B-R-5-10

| 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 | 5.561G | 55.20 | 68.20 | -13.00 | 49.91 | 3 | Horizontal | 185 | 1.48 | - | 31.60 | 5.16 | 31.47 |
| PK | 5.748G | 102.46 | Inf | -Inf | 96.97 | 3 | Horizontal | 185 | 1.48 | - | 31.90 | 5.05 | 31.46 |
| AV | 5.737G | 88.13 | Inf | -Inf | 82.66 | 3 | Horizontal | 185 | 1.48 | - | 31.87 | 5.06 | 31.46 |
| PK | 5.939G | 56.80 | 68.20 | -11.40 | 50.57 | 3 | Horizontal | 185 | 1.48 | - | 32.26 | 5.42 | 31.45 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX

## 5775MHz_TX

21/04/2021



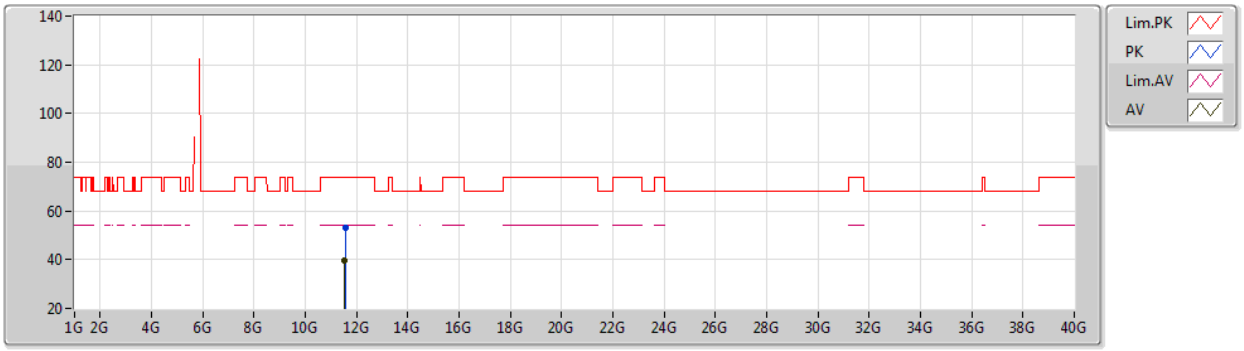

EUT Y_2TX
Setting 27
02-B-R-5

| 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 | 11.5588G | 53.33 | 74.00 | -20.67 | 38.49 | 3 | Vertical | 286 | 1.98 | - | 40.12 | 7.65 | 32.93 |
| AV | 11.54448G | 39.84 | 54.00 | -14.16 | 24.96 | 3 | Vertical | 286 | 1.98 | - | 40.17 | 7.64 | 32.93 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX

## 5775MHz_TX

21/04/2021




EUT Y_2TX
Setting 27
02-B-R-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 | 11.55024G | 52.91 | 74.00 | -21.09 | 38.05 | 3 | Horizontal | 121 | 2.29 | - | 40.15 | 7.64 | 32.93 |
| AV | 11.5486G | 39.76 | 54.00 | -14.24 | 24.90 | 3 | Horizontal | 121 | 2.29 | - | 40.15 | 7.64 | 32.93 |