

# FCC Test Report

FCC ID : HDCSDX810AP  
Equipment : Mesh Access Point  
Brand Name : **ADTRAN**<sup>®</sup>  
Model Name : SDX810-AP  
Applicant : Adtran  
901 Explorer Blvd., Huntsville, AL 35806, US  
Manufacturer : XAVi Technologies Corporation  
22F., No.69, Sec. 2, Guangfu Rd., Sanchong Dist., New  
Taipei City 241, Taiwan (R.O.C.)  
Standard : 47 CFR FCC Part 15.407

The product was received on Mar. 09, 2018, and testing was started from Mar. 17, 2018 and completed on Apr. 18, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

## Table of Contents

|                                                                      |           |
|----------------------------------------------------------------------|-----------|
| <b>HISTORY OF THIS TEST REPORT .....</b>                             | <b>3</b>  |
| <b>SUMMARY OF TEST RESULT .....</b>                                  | <b>4</b>  |
| <b>1 GENERAL DESCRIPTION .....</b>                                   | <b>5</b>  |
| 1.1 Information.....                                                 | 5         |
| 1.2 Testing Applied Standards .....                                  | 8         |
| 1.3 Testing Location Information .....                               | 8         |
| 1.4 Measurement Uncertainty .....                                    | 8         |
| <b>2 TEST CONFIGURATION OF EUT.....</b>                              | <b>9</b>  |
| 2.1 Test Condition .....                                             | 9         |
| 2.2 Test Channel Mode .....                                          | 9         |
| 2.3 The Worst Case Measurement Configuration.....                    | 11        |
| 2.4 Accessories and Support Equipment .....                          | 12        |
| 2.5 Test Setup Diagram .....                                         | 13        |
| <b>3 TRANSMITTER TEST RESULT .....</b>                               | <b>15</b> |
| 3.1 AC Power-line Conducted Emissions .....                          | 15        |
| 3.2 Emission Bandwidth .....                                         | 16        |
| 3.3 Maximum Conducted Output Power .....                             | 17        |
| 3.4 Peak Power Spectral Density.....                                 | 19        |
| 3.5 Unwanted Emissions.....                                          | 21        |
| 3.6 Test Equipment and Calibration Data .....                        | 26        |
| <b>APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS</b> |           |
| <b>APPENDIX B. TEST RESULTS OF EMISSION BANDWIDTH</b>                |           |
| <b>APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER</b>    |           |
| <b>APPENDIX D. TEST RESULTS OF PEAK POWER SPECTRAL DENSITY</b>       |           |
| <b>APPENDIX E. TEST RESULTS OF UNWANTED EMISSIONS</b>                |           |
| <b>APPENDIX F. TEST PHOTOS</b>                                       |           |
| <b>PHOTOGRAPHS OF EUT V01</b>                                        |           |



## History of this test report

[illegible]

## 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               | -      |

**Reviewed by: Jeremy Lin**

**Report Producer: Ivy Yuan**

# 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) | 5180-5240           | 36-48 [4]      |
| 5725-5850             |                         | 5745-5825           | 149-165 [5]    |
| 5150-5250             | n (HT40), ac (VHT40)    | 5190-5230           | 38-46 [2]      |
| 5725-5850             |                         | 5755-5795           | 151-159 [2]    |
| 5150-5250             | ac (VHT80)              | 5210                | 42 [1]         |
| 5725-5850             |                         | 5775                | 155 [1]        |

#### Non-Beamforming

| Band          | Mode           | BWch (MHz) | Nant |
|---------------|----------------|------------|------|
| 5.15-5.25GHz  | 802.11a        | 20         | 4TX  |
| 5.725-5.85GHz | 802.11a        | 20         | 4TX  |
| 5.15-5.25GHz  | 802.11ac VHT20 | 20         | 4TX  |
| 5.725-5.85GHz | 802.11ac VHT20 | 20         | 4TX  |
| 5.15-5.25GHz  | 802.11ac VHT40 | 40         | 4TX  |
| 5.725-5.85GHz | 802.11ac VHT40 | 40         | 4TX  |
| 5.15-5.25GHz  | 802.11ac VHT80 | 80         | 4TX  |
| 5.725-5.85GHz | 802.11ac VHT80 | 80         | 4TX  |

#### Beamforming

| Band          | Mode              | BWch (MHz) | Nant |
|---------------|-------------------|------------|------|
| 5.15-5.25GHz  | 802.11ac VHT20-BF | 20         | 4TX  |
| 5.725-5.85GHz | 802.11ac VHT20-BF | 20         | 4TX  |
| 5.15-5.25GHz  | 802.11ac VHT40-BF | 40         | 4TX  |
| 5.725-5.85GHz | 802.11ac VHT40-BF | 40         | 4TX  |
| 5.15-5.25GHz  | 802.11ac VHT80-BF | 80         | 4TX  |
| 5.725-5.85GHz | 802.11ac VHT80-BF | 80         | 4TX  |

#### 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 modulation.
- ♦ BWch is the nominal channel bandwidth.

**1.1.2 Antenna Information**

| Ant.                   | Brand | Model Name | Antenna Type     | Connector |
|------------------------|-------|------------|------------------|-----------|
| <b>2.4G</b>            |       |            |                  |           |
| 1                      | -     | -          | Embedded Antenna | Mini U.FL |
| 2                      | -     | -          | PIFA Antenna     | Mini U.FL |
| <b>5G First group</b>  |       |            |                  |           |
| 3                      | -     | -          | PIFA Antenna     | U.FL      |
| 4                      | -     | -          | PIFA Antenna     | U.FL      |
| 5                      | -     | -          | PIFA Antenna     | U.FL      |
| 6                      | -     | -          | PIFA Antenna     | U.FL      |
| <b>5G Second Group</b> |       |            |                  |           |
| 7                      | -     | -          | PIFA Antenna     | U.FL      |
| 8                      | -     | -          | PIFA Antenna     | U.FL      |
| 9                      | -     | -          | PIFA Antenna     | U.FL      |
| 10                     | -     | -          | PIFA Antenna     | U.FL      |

| Ant. | port | Gain (dBi) |           |           |
|------|------|------------|-----------|-----------|
|      |      | 2.4G       | 5G UNII-1 | 5G UNII-3 |
| 1    | 1    | 2.4        | -         | -         |
| 2    | 2    | 2.4        | -         | -         |
| 3    | 1    | -          | 3.5       | 3.9       |
| 4    | 2    | -          | 3.5       | 3.9       |
| 5    | 3    | -          | 3.5       | 3.9       |
| 6    | 4    | -          | 3.5       | 3.9       |
| 7    | -    | -          | 3         | 3         |
| 8    | -    | -          | 3         | 3         |
| 9    | -    | -          | 3         | 3         |
| 10   | -    | -          | 3         | 3         |

Note 1: EUT can match with above antennas for using. Higher gain in each type of antenna was used to perform the worst configuration and result of that was recorded as the final test result.

**1.1.3 EUT Information**

| Identify EUT                        |                                                                               |                                              |  |
|-------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------|--|
| Part Number                         | 1287860Fx (x=0~9, a~z, A~Z, blank, "-" or "+")                                |                                              |  |
| Operational Condition               |                                                                               |                                              |  |
| EUT Power Type                      | From AC Adapter                                                               |                                              |  |
| Beamforming Function                | <input checked="" type="checkbox"/> With beamforming                          | <input type="checkbox"/> Without beamforming |  |
| Type of EUT                         |                                                                               |                                              |  |
| <input checked="" type="checkbox"/> | Stand-alone                                                                   |                                              |  |
| <input type="checkbox"/>            | Combined (EUT where the radio part is fully integrated within another device) |                                              |  |
|                                     | Combined Equipment - Brand Name / Model No.: ...                              |                                              |  |
| <input type="checkbox"/>            | Plug-in radio (EUT intended for a variety of host systems)                    |                                              |  |
|                                     | Host System - Brand Name / Model No.: ...                                     |                                              |  |
| <input type="checkbox"/>            | Other:                                                                        |                                              |  |

**1.1.4 Mode Test Duty Cycle**
**Non-Beamforming**

| Mode           | DC    | DCF(dB) | T(s)     | VBW(Hz) $\geq 1/T$ |
|----------------|-------|---------|----------|--------------------|
| 802.11a        | 0.817 | 0.878   | 1.397m   | 1k                 |
| 802.11ac VHT20 | 0.532 | 2.741   | 373.125u | 3k                 |
| 802.11ac VHT40 | 0.53  | 2.757   | 373.125u | 3k                 |
| 802.11ac VHT80 | 0.278 | 5.56    | 125.625u | 10k                |

**Beamforming**

| Mode              | DC    | DCF(dB) | T(s)                 | VBW(Hz) $\geq 1/T$   |
|-------------------|-------|---------|----------------------|----------------------|
| 802.11ac VHT20-BF | 0.985 | 0.066   | n/a (DC $\geq$ 0.98) | n/a (DC $\geq$ 0.98) |
| 802.11ac VHT40-BF | 0.989 | 0.048   | n/a (DC $\geq$ 0.98) | n/a (DC $\geq$ 0.98) |
| 802.11ac VHT80-BF | 0.995 | 0.022   | n/a (DC $\geq$ 0.98) | n/a (DC $\geq$ 0.98) |

## 1.2 Testing Applied 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
- ♦ KDB 789033 D02 v02r01
- ♦ KDB 662911 D01 v02r01

## 1.3 Testing Location Information

| Testing Location                           |        |                                                                              |                      |
|--------------------------------------------|--------|------------------------------------------------------------------------------|----------------------|
| <input checked="" type="checkbox"/>        | HWA YA | ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)    |                      |
|                                            |        | TEL : 886-3-327-3456                                                         | FAX : 886-3-327-0973 |
| Test site Designation No. TW1190 with FCC. |        |                                                                              |                      |
| <input type="checkbox"/>                   | JHUBEI | ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.) |                      |
|                                            |        | TEL : 886-3-656-9065                                                         | FAX : 886-3-656-9085 |
| Test site Designation No. TW0006 with FCC. |        |                                                                              |                      |

| Test Condition | Test Site No. | Test Engineer | Test Environment | Test Date   |
|----------------|---------------|---------------|------------------|-------------|
| RF Conducted   | TH01-HY       | Barry         | 22.5°C / 65%     | 17/Apr/2018 |
| Radiated       | 03CH031-HY    | Jeff          | 24.2°C / 58%     | 17/Mar/2018 |
| AC Conduction  | CO04-HY       | Daniel        | 24.1°C / 57%     | 18/Apr/2018 |

## 1.4 Measurement Uncertainty

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

| Test Items                           | Uncertainty | Remark                   |
|--------------------------------------|-------------|--------------------------|
| Conducted Emission (150kHz ~ 30MHz)  | 3.6 dB      | Confidence levels of 95% |
| Radiated Emission (9kHz ~ 30MHz)     | 3.0 dB      | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 4.3 dB      | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz)     | 3.9 dB      | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz)    | 3.5 dB      | Confidence levels of 95% |
| Conducted Emission                   | 1.3 dB      | Confidence levels of 95% |
| Temperature                          | 0.7 °C      | Confidence levels of 95% |
| Humidity                             | 4 %         | Confidence levels of 95% |

## 2 Test Configuration of EUT

### 2.1 Test Condition

| Condition Item | Abbreviation/Remark | Remark |
|----------------|---------------------|--------|
| RF Conducted   | Abbreviation        | Remark |
| TnomVnom       | Tnom                | 20°C   |
| -              | Vnom                | 120V   |

### 2.2 Test Channel Mode

#### Non-Beamforming

|                       |                    |
|-----------------------|--------------------|
| Test Software Version | MT7615 QA 0.0.1.71 |
|-----------------------|--------------------|

| Mode                           | PowerSetting |
|--------------------------------|--------------|
| 802.11a_Nss1,(6Mbps)_4TX       | -            |
| 5180MHz                        | 11           |
| 5200MHz                        | 11           |
| 5240MHz                        | 11           |
| 5745MHz                        | 17           |
| 5785MHz                        | 17           |
| 5825MHz                        | 18           |
| 802.11ac VHT20_Nss1,(MCS0)_4TX | -            |
| 5180MHz                        | 16           |
| 5200MHz                        | 18           |
| 5240MHz                        | 16           |
| 5745MHz                        | 1E           |
| 5785MHz                        | 1B           |
| 5825MHz                        | 1E           |
| 802.11ac VHT40_Nss1,(MCS0)_4TX | -            |
| 5190MHz                        | 18           |
| 5230MHz                        | 18           |
| 5755MHz                        | 19           |
| 5795MHz                        | 19           |
| 802.11ac VHT80_Nss1,(MCS0)_4TX | -            |
| 5210MHz                        | 15           |
| 5775MHz                        | 1B           |

**Beamforming**

| Test Software | Dos |
|---------------|-----|
|---------------|-----|

| Mode                              | PowerSetting |
|-----------------------------------|--------------|
| 802.11ac VHT20-BF_Nss1,(MCS0)_4TX | -            |
| 5180MHz                           | 14           |
| 5200MHz                           | 10           |
| 5240MHz                           | 11           |
| 5745MHz                           | 18           |
| 5785MHz                           | 29           |
| 5825MHz                           | 25           |
| 802.11ac VHT40-BF_Nss1,(MCS0)_4TX | -            |
| 5190MHz                           | 12           |
| 5230MHz                           | 10           |
| 5755MHz                           | 23           |
| 5795MHz                           | 24           |
| 802.11ac VHT80-BF_Nss1,(MCS0)_4TX | -            |
| 5210MHz                           | 13           |
| 5775MHz                           | 28           |

## 2.3 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests |                                                          |
|-----------------------------------------------------|----------------------------------------------------------|
| <b>Tests Item</b>                                   | AC power-line conducted emissions                        |
| <b>Condition</b>                                    | AC power-line conducted measurement for line and neutral |
| <b>Operating Mode</b>                               | CTX                                                      |
| 1                                                   | Adapter mode - Non BF                                    |
| 2                                                   | Adapter mode - BF                                        |

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

| The Worst Case Mode for Following Conformance Tests |                                                                                                                                                                                                                                                     |                                                                                      |                                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | Unwanted Emissions                                                                                                                                                                                                                                  |                                                                                      |                                                                                       |
| <b>Test Condition</b>                               | 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. |                                                                                      |                                                                                       |
| <b>Operating Mode &lt; 1GHz</b>                     | CTX                                                                                                                                                                                                                                                 |                                                                                      |                                                                                       |
| 1                                                   | Adapter mode                                                                                                                                                                                                                                        |                                                                                      |                                                                                       |
| <b>Operating Mode &gt; 1GHz</b>                     | CTX                                                                                                                                                                                                                                                 |                                                                                      |                                                                                       |
| <b>Orthogonal Planes of EUT</b>                     | <b>X Plane</b>                                                                                                                                                                                                                                      | <b>Y Plane</b>                                                                       | <b>Z Plane</b>                                                                        |
|                                                     |                                                                                                                                                                  |  |  |
| <b>Worst Planes of EUT</b>                          |                                                                                                                                                                                                                                                     |                                                                                      | V                                                                                     |

| The Worst Case Mode for Following Conformance Tests                                   |                                    |
|---------------------------------------------------------------------------------------|------------------------------------|
| <b>Tests Item</b>                                                                     | Simultaneous Transmission Analysis |
| <b>Operating Mode</b>                                                                 | CTX                                |
| 1                                                                                     | WLAN 2.4GHz+ WLAN 5GHz             |
| Refer to Sporton Test Report No.: FA6N1725-03 for Co-location RF Exposure Evaluation. |                                    |

## 2.4 Accessories

| Accessories |              |                                                 |            |                 |
|-------------|--------------|-------------------------------------------------|------------|-----------------|
| AC Adapter  | Brand Name   | SUNNY                                           | Model Name | SYS1531-2412-W2 |
|             | Power Rating | I/P: 100 – 240 Vac, 1 A, O/P: 12 Vdc, 2 A       |            |                 |
|             | Power Cord   | 1.5 meter, non-shielded cable, w/o ferrite core |            |                 |

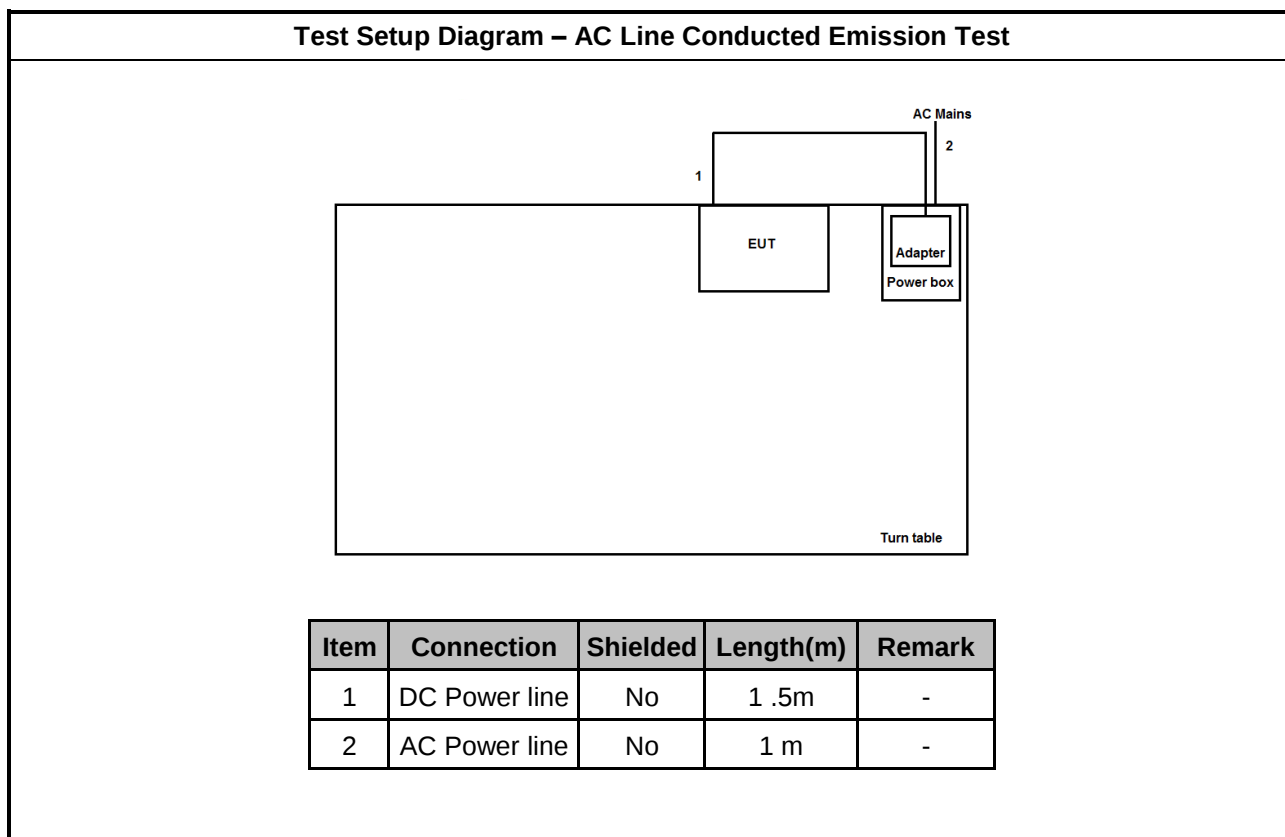
## 2.5 Support Equipment

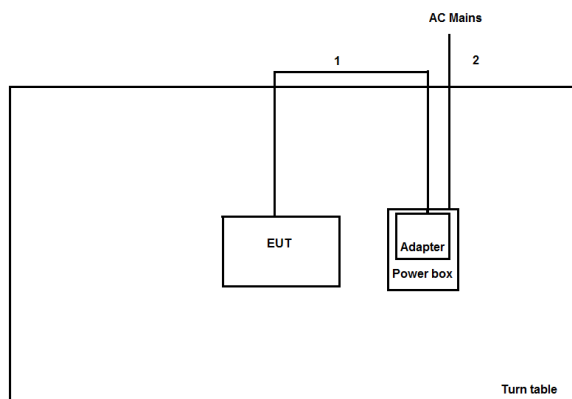
| Support Equipment – RF Conducted |                |            |            |        |
|----------------------------------|----------------|------------|------------|--------|
| No.                              | Equipment      | Brand Name | Model Name | FCC ID |
| 1                                | Notebook       | DELL       | E5410      | DoC    |
| 2                                | Adapter for NB | DELL       | HA65NM130  | DoC    |

| Support Equipment – Radiated Emission |           |            |                 |        |
|---------------------------------------|-----------|------------|-----------------|--------|
| No.                                   | Equipment | Brand Name | Model Name      | FCC ID |
| 1                                     | Adapter   | SUNNY      | SYS1531-2412-W2 | -      |

| Support Equipment – AC Conduction |           |            |                 |        |
|-----------------------------------|-----------|------------|-----------------|--------|
| No.                               | Equipment | Brand Name | Model Name      | FCC ID |
| 1                                 | Adapter   | SUNNY      | SYS1531-2412-W2 | -      |

## 2.6 Test Setup Diagram



**Test Setup Diagram - Radiated Test**


| Item | Connection    | Shielded | Length(m) | Remark |
|------|---------------|----------|-----------|--------|
| 1    | DC Power line | No       | 1 .5m     | -      |
| 2    | AC Power line | No       | 1 m       | -      |

### 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.

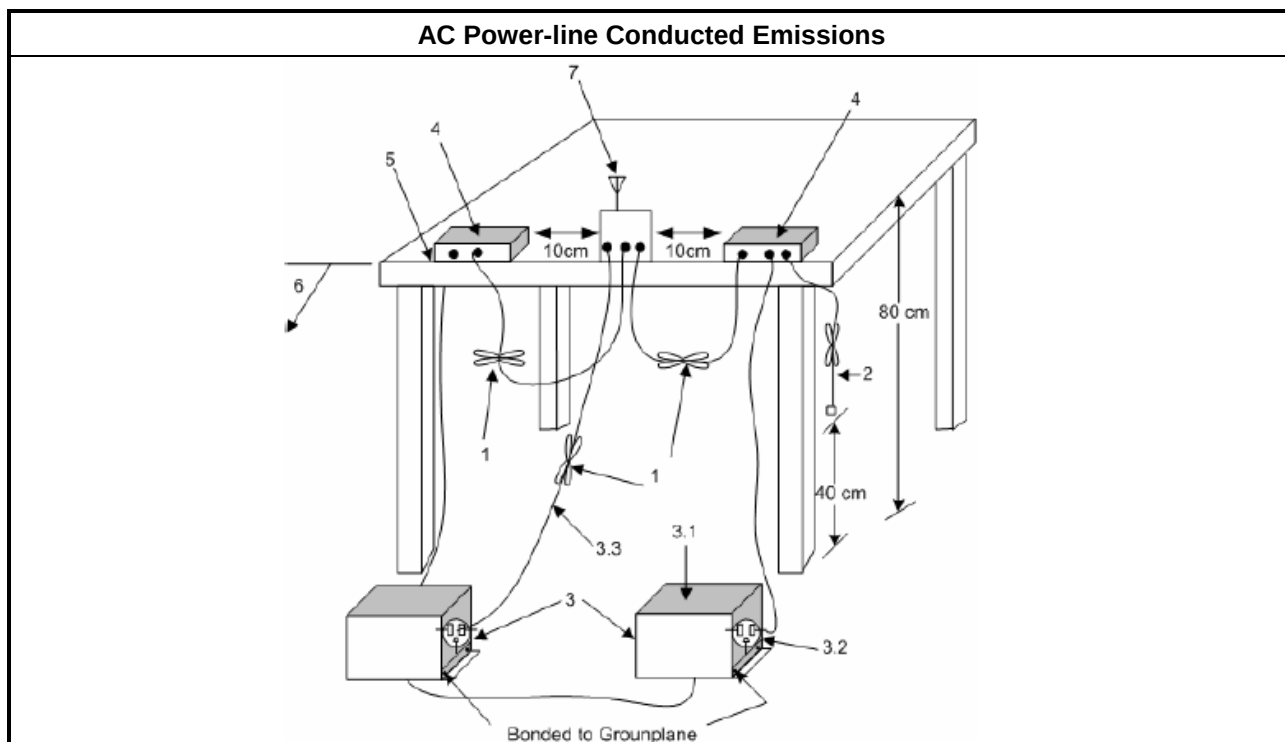
### 3.1.2 Measuring Instruments

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

### 3.1.3 Test Procedures

| Test Method                         |                                                                              |
|-------------------------------------|------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions. |

### 3.1.4 Test Setup



### 3.1.5 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            |                                                                                                                                                                             |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UNII Devices</b>                 |                                                                                                                                                                             |
| <input checked="" type="checkbox"/> | For the 5.15-5.25 GHz band, N/A                                                                                                                                             |
| <input type="checkbox"/>            | 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.  |
| <input type="checkbox"/>            | 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. |
| <input checked="" type="checkbox"/> | For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.                                                                                                         |

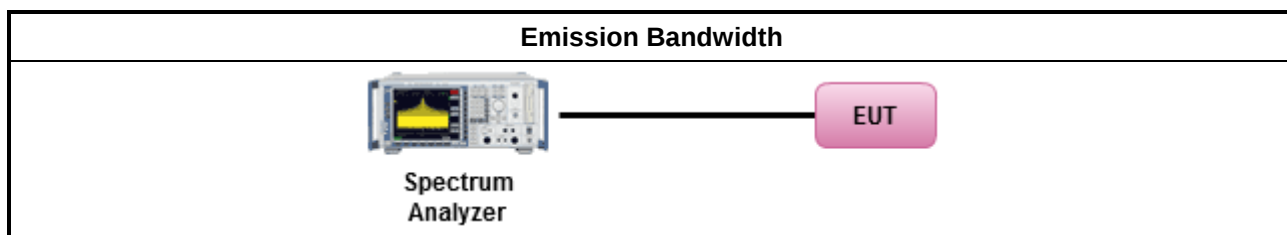
### 3.2.2 Measuring Instruments

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

### 3.2.3 Test Procedures

| Test Method                                                                                                                    |                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>For the emission bandwidth shall be measured using one of the options below:</li> </ul> |                                                                         |
| <input checked="" type="checkbox"/>                                                                                            | Refer as KDB 789033, clause C for EBW and clause D for OBW measurement. |
| <input type="checkbox"/>                                                                                                       | Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.      |
| <input checked="" type="checkbox"/>                                                                                            | Refer as IC RSS-Gen, clause 6.6 for bandwidth testing.                  |

### 3.2.4 Test Setup



### 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                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UNII Devices</b>                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input type="checkbox"/>                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>Outdoor AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math>. e.i.r.p. at any elevation angle above 30 degrees <math>\leq 125</math>mW [21dBm]</li> <li>Indoor AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math></li> <li>Point-to-point AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 23</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 23)</math>.</li> <li>Mobile or Portable Client: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 250 mW. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 24 - (G_{TX} - 6)</math>.</li> </ul> |
| <input type="checkbox"/> 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 $P_{Out} = 24 - (G_{TX} - 6)$ .  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input type="checkbox"/> 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 $P_{Out} = 24 - (G_{TX} - 6)$ . |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input type="checkbox"/>                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>Point-to-multipoint systems (P2M): the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math>.</li> <li>Point-to-point systems (P2P): the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| $P_{Out}$ = maximum conducted output power in dBm,<br>$G_{TX}$ = the maximum transmitting antenna directional gain in dBi.                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

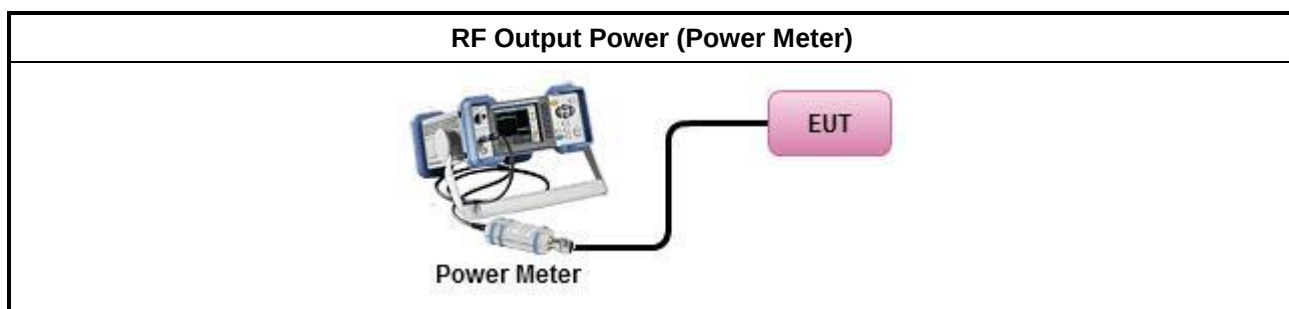
### 3.3.2 Measuring Instruments

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

### 3.3.3 Test Procedures

| Test Method                                                                      |                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Maximum Conducted Output Power</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                  | Duty cycle $\geq 98\%$                                                                                                                                                                                                                                                                                                                                             |
| <input type="checkbox"/>                                                         | Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).                                                                                                                                                                                                                                                                                              |
|                                                                                  | Duty cycle $< 98\%$                                                                                                                                                                                                                                                                                                                                                |
| <input type="checkbox"/>                                                         | Refer as 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                                                                                                                                                                                                                                                                                           |
| <input checked="" type="checkbox"/>                                              | Refer as KDB 789033, clause E Method PM (using an RF average power meter).                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>For conducted measurement.</li> </ul>     |                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                  | <ul style="list-style-type: none"> <li>If the EUT supports multiple transmit chains using options given below:<br/>Refer as 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.</li> </ul> |
|                                                                                  | <ul style="list-style-type: none"> <li>If multiple transmit chains, EIRP calculation could be following as methods:<br/> <math>P_{\text{total}} = P_1 + P_2 + \dots + P_n</math><br/> (calculated in linear unit [mW] and transfer to log unit [dBm])<br/> <math>\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}</math> </li> </ul>                      |

### 3.3.4 Test Setup



### 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                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UNII Devices</b>                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 6)</math>.</li> <li>Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 6)</math>.</li> <li>Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 23</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 23)</math>.</li> <li>Mobile or Portable Client: the peak power spectral density (PPSD) <math>\leq 11</math> dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>PPSD = 11 - (G_{TX} - 6)</math>.</li> </ul> |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                        | For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) $\leq 11$ dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$ .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                        | For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) $\leq 11$ dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$ .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>PPSD = 30 - (G_{TX} - 6)</math>.</li> <li>Point-to-point systems (P2P): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>PPSD</b> = 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><b>G<sub>TX</sub></b> = the maximum transmitting antenna directional gain in dBi. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

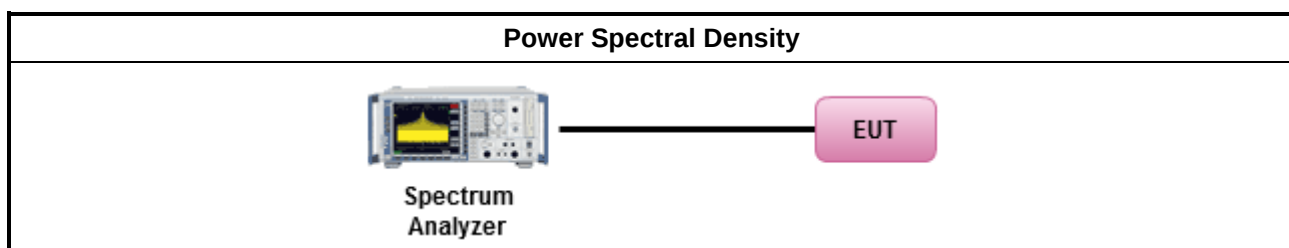
#### 3.4.2 Measuring Instruments

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

### 3.4.3 Test Procedures

| Test Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <ul style="list-style-type: none"> <li>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:</li> </ul>                                                                                                                                                                                                                                                                                                                |  |
| <input type="checkbox"/> Refer as 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%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <input checked="" type="checkbox"/> Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| Duty cycle < 98%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <input checked="" type="checkbox"/> Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <ul style="list-style-type: none"> <li>For conducted measurement.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| <ul style="list-style-type: none"> <li>If the EUT supports multiple transmit chains using options given below:</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| <ul style="list-style-type: none"> <li>Measure and sum the spectra across the outputs. Refer as 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.</li> </ul> |  |
| <ul style="list-style-type: none"> <li>If multiple transmit chains, EIRP PPSD calculation could be following as methods:<br/> <math>PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n</math><br/>           (calculated in linear unit [mW] and transfer to log unit [dBm])<br/> <math>EIRP_{total} = PPSD_{total} + DG</math> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                       |  |

### 3.4.4 Test Setup



### 3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

### 3.5 Unwanted Emissions

#### 3.5.1 Transmitter Radiated 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                              | 5.650-5700 GHz: e.i.r.p. -27 ~ 10 dBm [68.2 ~ 105.2 dBuV/m@3m]<br>5.700-5720 GHz: e.i.r.p. 10 ~ 15.6 dBm [105.2 ~ 110.8 dBuV/m@3m]<br>5.720-5725 GHz: e.i.r.p. 15.6 ~ 27 dBm [110.8 ~ 122.2 dBuV/m@3m]<br>5.850-5.855 GHz: e.i.r.p. 27 ~ 15.6 dBm [122.2 ~ 110.8 dBuV/m@3m]<br>5.855-5.875 GHz: e.i.r.p. 15.6 ~ 10 dBm [110.8 ~ 105.2 dBuV/m@3m]<br>5.875-5.925 GHz: e.i.r.p. 10 ~ -27 dBm [105.2 ~ 68.2dBuV/m@3m]<br>Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m] |

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).

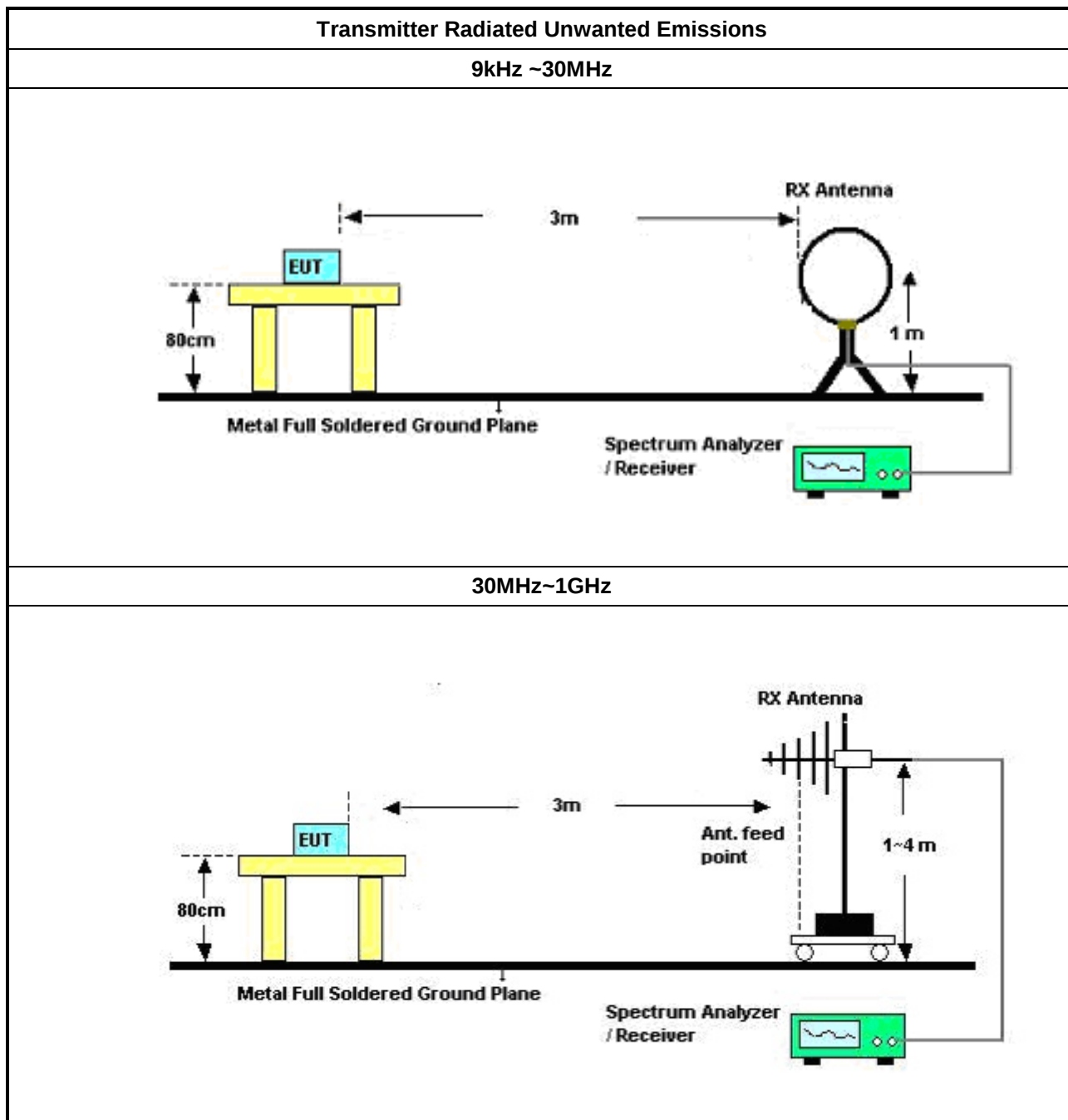
### 3.5.2 Measuring Instruments

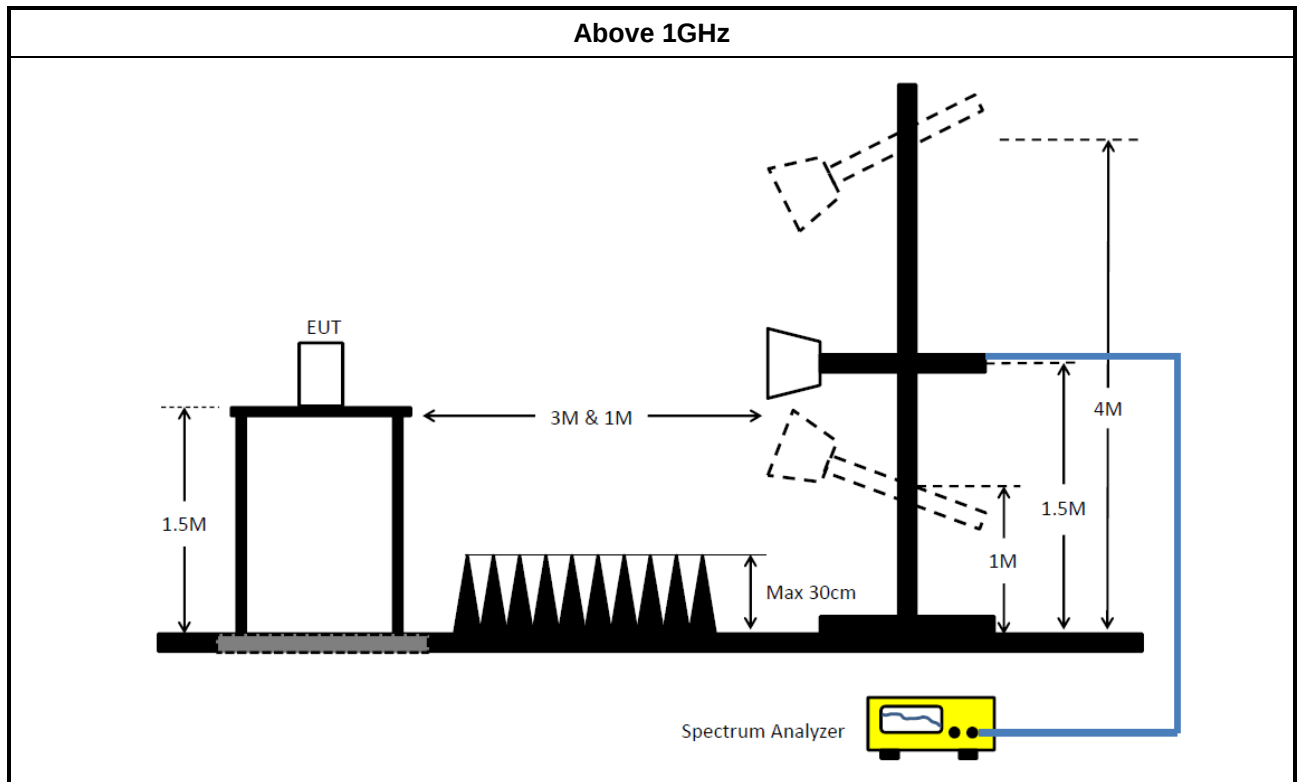
Refer a test equipment and calibration data table in this test report.

### 3.5.3 Test Procedures

| Test Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>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).</li> </ul> |                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>The average emission levels shall be measured in [duty cycle <math>\geq</math> 98 or duty factor].</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.</li> </ul>               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.</li> </ul>                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.            |
| <ul style="list-style-type: none"> <li>For radiated measurement.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.</li> </ul>    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.</li> </ul> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.</li> </ul>                              |
| <ul style="list-style-type: none"> <li>The any unwanted emissions level shall not exceed the fundamental emission level.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                    |

### 3.5.4 Test Setup





### 3.5.5 Transmitter Unwanted Emissions (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

### 3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

### 3.6 Test Equipment and Calibration Data

#### Instrument for AC Conduction

| Instrument                           | Manufacturer | Model No.   | Serial No.     | Spec.               | Calibration Date | Calibration Due Date |
|--------------------------------------|--------------|-------------|----------------|---------------------|------------------|----------------------|
| EMC Receiver                         | R&S          | ESR3        | 102052         | 9KHz ~ 3.6GHz       | 29/Apr/2017      | 28/Apr/2018          |
| LISN                                 | R&S          | ENV216      | 101295         | 9kHz ~ 30MHz        | 17/Nov/2017      | 16/Nov/2018          |
| RF Cable-CON                         | HUBER+SUHNER | RG213/U     | 07611832020001 | 9kHz ~ 30MHz        | 06/Oct/2017      | 05/Oct/2018          |
| AC POWER                             | APC          | AFC-11005G  | F310050055     | 47Hz~63Hz<br>5~300V | NCR              | NCR                  |
| Impuls<br>Begrenzer<br>Pulse Limiter | SCHWARZBECK  | VTSD 9561-F | 9561-F041      | 9 kHz ~ 30 MHz      | 12/Oct/2017      | 11/Oct/2018          |

NCR : Non-Calibration Require

#### Instrument for Radiated Test

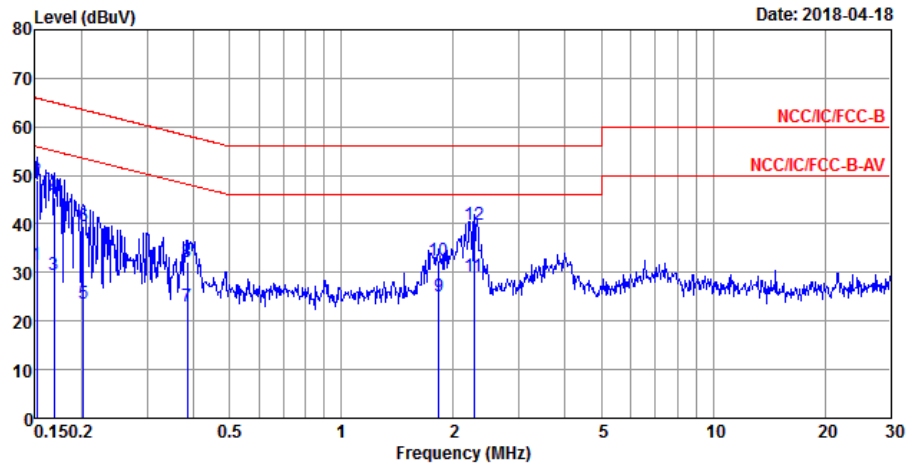
| Instrument                     | Manufacturer   | Model No.      | Serial No.  | Spec.              | Calibration Date | Calibration Due Date |
|--------------------------------|----------------|----------------|-------------|--------------------|------------------|----------------------|
| 3m Semi<br>Anechoic<br>Chamber | SIDT FRANKONIA | SAC-3M         | 03CH03-HY   | 30MHz ~ 1GHz<br>3m | 31/Oct/2017      | 30/Oct/2018          |
| 3m Semi<br>Anechoic<br>Chamber | SIDT FRANKONIA | SAC-3M         | 03CH03-HY   | 1GHz ~ 18GHz<br>3m | 01/Nov/2017      | 31/Oct/2018          |
| Amplifier                      | HP             | 8447D          | 2944A08033  | 10kHz ~ 1.3GHz     | 19/Apr/2017      | 18/Apr/2018          |
| Amplifier                      | Keysight       | 83017A         | MY53270196  | 1GHz ~ 26.5GHz     | 31/Aug/2017      | 30/Aug/2018          |
| Spectrum                       | R&S            | FSV40          | 101500      | 9kHz ~ 40GHz       | 28/Jun/2017      | 27/Jun/2018          |
| Receiver                       | R&S            | ESR3           | 102052      | 9KHz ~ 3.6GHz      | 29/Apr/2017      | 28/Apr/2018          |
| RF Cable-R03m                  | Jye Bao        | RG142          | CB021       | 9kHz ~ 1GHz        | 26/Jan/2018      | 25/Jan/2019          |
| RF Cable-high                  | SUHNER         | SUCOFLEX106    | CB222       | 1GHz ~ 40GHz       | 26/Jan/2018      | 25/Jan/2019          |
| Bilog Antenna                  | SCHAFFNER      | CBL 6112B      | 22237       | 30MHz ~ 1GHz       | 08/Jul/2017      | 07/Jul/2018          |
| Horn Antenna                   | SCHWARZBECK    | BBHA9170       | BBHA9170154 | 18GHz ~ 40GHz      | 09/Feb/ 2018     | 08/Feb/2019          |
| Horn Antenna                   | AAROIA AG      | POWERLOG 70180 | 05192       | 1GHz ~ 18GHz       | 14/Mar/ 2018     | 13/Mar/ 2019         |
| Amplifier                      | MITEQ          | TTA1840-35-HG  | 1864481     | 18GHz ~ 40GHz      | 24/Aug/2017      | 23/Aug/2018          |
| Loop Antenna                   | TESEQ          | HLA 6120       | 24155       | 9 kHz~30 MHz       | 16/Mar/2018      | 15/Mar/2019          |

**Instrument for Conducted Test**

| Instrument        | Manufacturer | Model No.    | Serial No. | Spec.           | Calibration Date | Calibration Due Date |
|-------------------|--------------|--------------|------------|-----------------|------------------|----------------------|
| Spectrum Analyzer | R&S          | FSV 40       | 101013     | 10Hz~40GHz      | 29/Dec/2017      | 28/Dec/2018          |
| Signal Generator  | R&S          | SMR40        | 100116     | 10MHz ~ 40GHz   | 27/Jul/2017      | 26/Jul/2018          |
| Power Sensor      | Anritsu      | MA2411B      | 0917017    | 300MHz ~ 40GHz  | 05/Feb/2018      | 04/Feb/2019          |
| Power Meter       | Anritsu      | ML2495A      | 0949003    | 300MHz ~ 40GHz  | 05/Feb/2018      | 04/Feb/2019          |
| RF Cable-0.2m     | HUBER+SUHNER | SUCOFLEX_104 | MY10710/4  | 30MHz ~ 26.5GHz | 25/Aug/2017      | 24/Aug/2018          |
| RF Cable-0.2m     | HUBER+SUHNER | SUCOFLEX_104 | MY10709/4  | 30MHz ~ 26.5GHz | 25/Aug/2017      | 24/Aug/2018          |
| RF Cable-0.5m     | HUBER+SUHNER | SUCOFLEX_104 | MY10713/4  | 30MHz ~ 26.5GHz | 25/Aug/2017      | 24/Aug/2018          |

## AC Power-line Conducted Emissions Result

|                    |                     |             |         |
|--------------------|---------------------|-------------|---------|
| Operating Mode     | 1                   | Power Phase | Neutral |
| Operating Function | Adapter mode-Non BF |             |         |

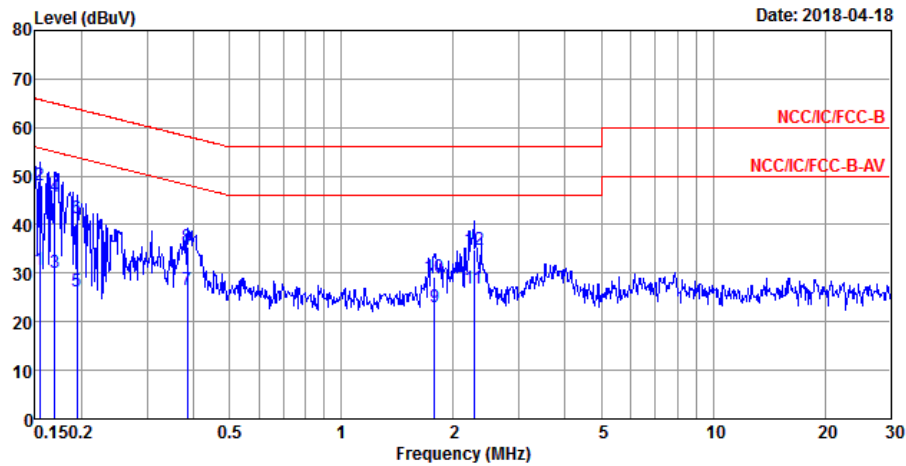


|        | Freq | Level | Over   | Limit | Read  | LISN   | Cable |         |
|--------|------|-------|--------|-------|-------|--------|-------|---------|
|        | MHz  | dBuV  | Limit  | Line  | Level | Factor | Loss  | Remark  |
|        |      |       | dB     | dBuV  | dBuV  | dB     | dB    |         |
| 1      | 0.15 | 31.52 | -24.39 | 55.91 | 21.85 | 9.63   | 0.04  | Average |
| 2      | 0.15 | 48.88 | -17.03 | 65.91 | 39.21 | 9.63   | 0.04  | QP      |
| 3      | 0.17 | 29.43 | -25.60 | 55.03 | 19.78 | 9.63   | 0.02  | Average |
| 4      | 0.17 | 45.32 | -19.71 | 65.03 | 35.67 | 9.63   | 0.02  | QP      |
| 5      | 0.20 | 23.74 | -29.80 | 53.54 | 14.12 | 9.62   | 0.00  | Average |
| 6      | 0.20 | 39.63 | -23.91 | 63.54 | 30.01 | 9.62   | 0.00  | QP      |
| 7      | 0.39 | 23.16 | -25.01 | 48.17 | 13.46 | 9.61   | 0.09  | Average |
| 8      | 0.39 | 32.08 | -26.09 | 58.17 | 22.38 | 9.61   | 0.09  | QP      |
| 9      | 1.83 | 25.23 | -20.77 | 46.00 | 15.60 | 9.63   | 0.00  | Average |
| 10     | 1.83 | 32.40 | -23.60 | 56.00 | 22.77 | 9.63   | 0.00  | QP      |
| 11     | 2.27 | 29.09 | -16.91 | 46.00 | 19.44 | 9.63   | 0.02  | Average |
| 12 MAX | 2.27 | 39.74 | -16.26 | 56.00 | 30.09 | 9.63   | 0.02  | QP      |

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

## AC Power-line Conducted Emissions Result

|                    |                     |             |      |
|--------------------|---------------------|-------------|------|
| Operating Mode     | 1                   | Power Phase | Line |
| Operating Function | Adapter mode-Non BF |             |      |

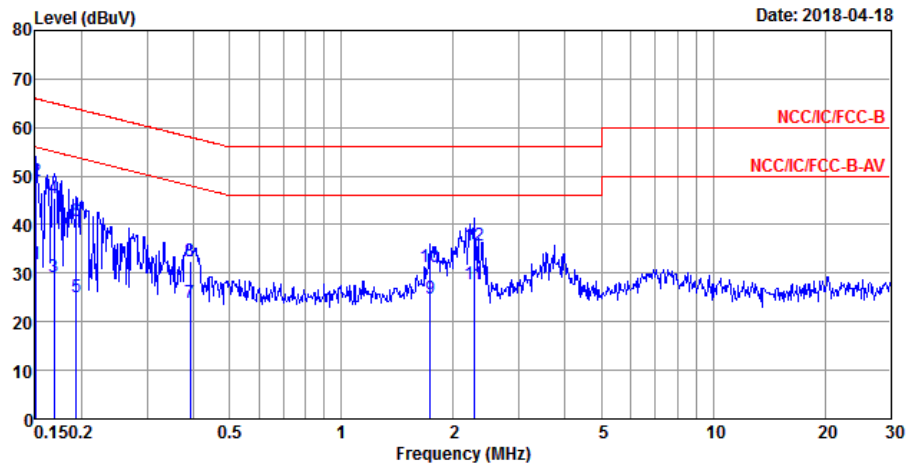


|       | Freq | Level | Over   | Limit | Read  | LISN   | Cable |         |
|-------|------|-------|--------|-------|-------|--------|-------|---------|
|       | MHz  | dBuV  | Limit  | Line  | Level | Factor | Loss  | Remark  |
|       | MHz  | dBuV  | dB     | dBuV  | dBuV  | dB     | dB    |         |
| 1     | 0.15 | 30.64 | -25.14 | 55.78 | 20.98 | 9.62   | 0.04  | Average |
| 2 MAX | 0.15 | 48.25 | -17.53 | 65.78 | 38.59 | 9.62   | 0.04  | QP      |
| 3     | 0.17 | 30.19 | -24.80 | 54.99 | 20.55 | 9.62   | 0.02  | Average |
| 4     | 0.17 | 45.87 | -19.12 | 64.99 | 36.23 | 9.62   | 0.02  | QP      |
| 5     | 0.19 | 26.29 | -27.55 | 53.84 | 16.67 | 9.62   | 0.00  | Average |
| 6     | 0.19 | 41.47 | -22.37 | 63.84 | 31.85 | 9.62   | 0.00  | QP      |
| 7     | 0.39 | 26.69 | -21.48 | 48.17 | 16.99 | 9.61   | 0.09  | Average |
| 8     | 0.39 | 35.33 | -22.84 | 58.17 | 25.63 | 9.61   | 0.09  | QP      |
| 9     | 1.78 | 22.98 | -23.02 | 46.00 | 13.36 | 9.62   | 0.00  | Average |
| 10    | 1.78 | 29.11 | -26.89 | 56.00 | 19.49 | 9.62   | 0.00  | QP      |
| 11    | 2.27 | 26.86 | -19.14 | 46.00 | 17.22 | 9.62   | 0.02  | Average |
| 12    | 2.27 | 34.72 | -21.28 | 56.00 | 25.08 | 9.62   | 0.02  | QP      |

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

## AC Power-line Conducted Emissions Result

|                    |                 |             |         |
|--------------------|-----------------|-------------|---------|
| Operating Mode     | 2               | Power Phase | Neutral |
| Operating Function | Adapter mode-BF |             |         |

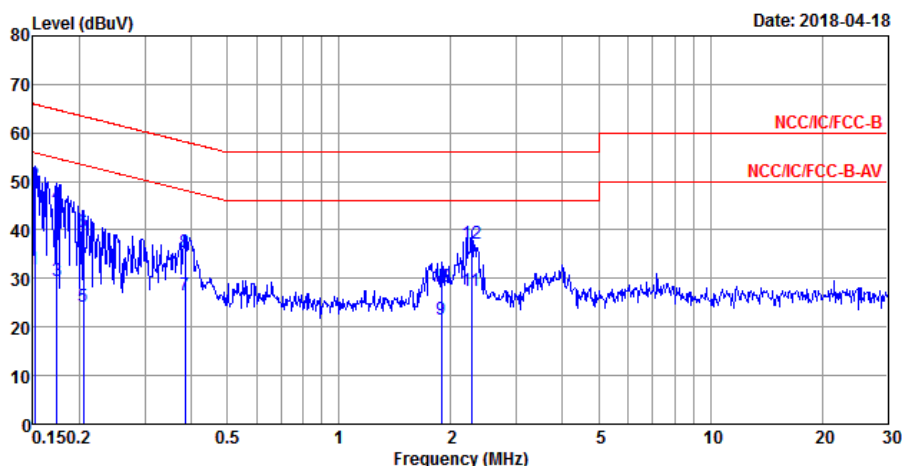


|       | Freq | Level | Over   | Limit | Read  | LISN   | Cable | Remark  |
|-------|------|-------|--------|-------|-------|--------|-------|---------|
|       | MHz  | dBuV  | Limit  | Line  | Level | Factor | Loss  |         |
|       | MHz  | dBuV  | dB     | dBuV  | dBuV  | dB     | dB    |         |
| 1     | 0.15 | 31.88 | -24.08 | 55.96 | 22.21 | 9.63   | 0.04  | Average |
| 2 MAX | 0.15 | 49.13 | -16.83 | 65.96 | 39.46 | 9.63   | 0.04  | QP      |
| 3     | 0.17 | 29.37 | -25.66 | 55.03 | 19.72 | 9.63   | 0.02  | Average |
| 4     | 0.17 | 45.36 | -19.67 | 65.03 | 35.71 | 9.63   | 0.02  | QP      |
| 5     | 0.19 | 25.09 | -28.80 | 53.89 | 15.47 | 9.62   | 0.00  | Average |
| 6     | 0.19 | 40.77 | -23.12 | 63.89 | 31.15 | 9.62   | 0.00  | QP      |
| 7     | 0.39 | 24.04 | -23.99 | 48.03 | 14.33 | 9.61   | 0.10  | Average |
| 8     | 0.39 | 32.44 | -25.59 | 58.03 | 22.73 | 9.61   | 0.10  | QP      |
| 9     | 1.73 | 24.94 | -21.06 | 46.00 | 15.31 | 9.63   | 0.00  | Average |
| 10    | 1.73 | 31.39 | -24.61 | 56.00 | 21.76 | 9.63   | 0.00  | QP      |
| 11    | 2.27 | 27.83 | -18.17 | 46.00 | 18.18 | 9.63   | 0.02  | Average |
| 12    | 2.27 | 35.65 | -20.35 | 56.00 | 26.00 | 9.63   | 0.02  | QP      |

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

## AC Power-line Conducted Emissions Result

|                    |                 |             |      |
|--------------------|-----------------|-------------|------|
| Operating Mode     | 2               | Power Phase | Line |
| Operating Function | Adapter mode-BF |             |      |



|       | Freq | Level | Over   | Limit | Read  | LISN   | Cable |         |
|-------|------|-------|--------|-------|-------|--------|-------|---------|
|       | MHz  | dBuV  | Limit  | Line  | Level | Factor | Loss  | Remark  |
|       | MHz  | dBuV  | dB     | dBuV  | dBuV  | dB     | dB    |         |
| 1     | 0.15 | 31.87 | -24.04 | 55.91 | 22.21 | 9.62   | 0.04  | Average |
| 2 MAX | 0.15 | 49.34 | -16.57 | 65.91 | 39.68 | 9.62   | 0.04  | QP      |
| 3     | 0.17 | 29.40 | -25.37 | 54.77 | 19.76 | 9.62   | 0.02  | Average |
| 4     | 0.17 | 45.04 | -19.73 | 64.77 | 35.40 | 9.62   | 0.02  | QP      |
| 5     | 0.21 | 24.28 | -29.12 | 53.40 | 14.66 | 9.62   | 0.00  | Average |
| 6     | 0.21 | 39.45 | -23.95 | 63.40 | 29.83 | 9.62   | 0.00  | QP      |
| 7     | 0.39 | 26.61 | -21.56 | 48.17 | 16.91 | 9.61   | 0.09  | Average |
| 8     | 0.39 | 35.47 | -22.70 | 58.17 | 25.77 | 9.61   | 0.09  | QP      |
| 9     | 1.89 | 21.54 | -24.46 | 46.00 | 11.92 | 9.62   | 0.00  | Average |
| 10    | 1.89 | 28.26 | -27.74 | 56.00 | 18.64 | 9.62   | 0.00  | QP      |
| 11    | 2.27 | 27.32 | -18.68 | 46.00 | 17.68 | 9.62   | 0.02  | Average |
| 12    | 2.27 | 37.06 | -18.94 | 56.00 | 27.42 | 9.62   | 0.02  | QP      |

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

**Summary**

| Mode                           | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|--------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 5.15-5.25GHz                   | -                | -               | -        | -                | -               |
| 802.11a_Nss1,(6Mbps)_4TX       | 20.175M          | 16.417M         | 16M4D1D  | 19.675M          | 16.342M         |
| 802.11ac VHT20_Nss1,(MCS0)_4TX | 20.475M          | 17.591M         | 17M6D1D  | 19.95M           | 17.516M         |
| 802.11ac VHT40_Nss1,(MCS0)_4TX | 41.05M           | 35.982M         | 36M0D1D  | 39.75M           | 35.832M         |
| 802.11ac VHT80_Nss1,(MCS0)_4TX | 80.8M            | 75.162M         | 75M2D1D  | 79.8M            | 75.062M         |
| 5.725-5.85GHz                  | -                | -               | -        | -                | -               |
| 802.11a_Nss1,(6Mbps)_4TX       | 15.3M            | 16.442M         | 16M4D1D  | 15M              | 16.342M         |
| 802.11ac VHT20_Nss1,(MCS0)_4TX | 15.725M          | 17.566M         | 17M6D1D  | 15.075M          | 17.516M         |
| 802.11ac VHT40_Nss1,(MCS0)_4TX | 35.1M            | 36.032M         | 36M0D1D  | 35.05M           | 35.882M         |
| 802.11ac VHT80_Nss1,(MCS0)_4TX | 75.1M            | 75.162M         | 75M2D1D  | 73.8M            | 74.863M         |

**Max-N dB** = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

**Max-OBW** = Maximum 99% 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<br>(Hz) | Port 1-N<br>dB<br>(Hz) | Port<br>1-OBW<br>(Hz) | Port 2-N<br>dB<br>(Hz) | Port<br>2-OBW<br>(Hz) | Port 3-N<br>dB<br>(Hz) | Port<br>3-OBW<br>(Hz) | Port 4-N<br>dB<br>(Hz) | Port<br>4-OBW<br>(Hz) |
|--------------------------------|--------|---------------|------------------------|-----------------------|------------------------|-----------------------|------------------------|-----------------------|------------------------|-----------------------|
| 802.11a_Nss1,(6Mbps)_4TX       | -      | -             | -                      | -                     | -                      | -                     | -                      | -                     | -                      | -                     |
| 5180MHz_TnomVnom               | Pass   | Inf           | 19.725M                | 16.392M               | 19.675M                | 16.392M               | 19.9M                  | 16.367M               | 19.675M                | 16.392M               |
| 5200MHz_TnomVnom               | Pass   | Inf           | 19.8M                  | 16.367M               | 19.725M                | 16.417M               | 19.95M                 | 16.392M               | 19.75M                 | 16.392M               |
| 5240MHz_TnomVnom               | Pass   | Inf           | 19.7M                  | 16.392M               | 19.7M                  | 16.417M               | 20.175M                | 16.342M               | 19.675M                | 16.392M               |
| 5745MHz_TnomVnom               | Pass   | 500k          | 15.275M                | 16.367M               | 15.3M                  | 16.442M               | 15.15M                 | 16.367M               | 15.025M                | 16.417M               |
| 5785MHz_TnomVnom               | Pass   | 500k          | 15M                    | 16.417M               | 15.125M                | 16.417M               | 15.1M                  | 16.367M               | 15.075M                | 16.367M               |
| 5825MHz_TnomVnom               | Pass   | 500k          | 15.1M                  | 16.342M               | 15.125M                | 16.417M               | 15.05M                 | 16.367M               | 15.3M                  | 16.392M               |
| 802.11ac_VHT20_Nss1,(MCS0)_4TX | -      | -             | -                      | -                     | -                      | -                     | -                      | -                     | -                      | -                     |
| 5180MHz_TnomVnom               | Pass   | Inf           | 20.45M                 | 17.566M               | 19.95M                 | 17.566M               | 20.4M                  | 17.566M               | 20.475M                | 17.516M               |
| 5200MHz_TnomVnom               | Pass   | Inf           | 20.45M                 | 17.541M               | 20M                    | 17.566M               | 20.325M                | 17.566M               | 20.35M                 | 17.566M               |
| 5240MHz_TnomVnom               | Pass   | Inf           | 20.4M                  | 17.541M               | 20.25M                 | 17.591M               | 20.35M                 | 17.541M               | 20.425M                | 17.541M               |
| 5745MHz_TnomVnom               | Pass   | 500k          | 15.1M                  | 17.516M               | 15.725M                | 17.566M               | 15.15M                 | 17.541M               | 15.125M                | 17.541M               |
| 5785MHz_TnomVnom               | Pass   | 500k          | 15.075M                | 17.566M               | 15.725M                | 17.566M               | 15.125M                | 17.566M               | 15.125M                | 17.516M               |
| 5825MHz_TnomVnom               | Pass   | 500k          | 15.1M                  | 17.541M               | 15.7M                  | 17.541M               | 15.1M                  | 17.516M               | 15.15M                 | 17.541M               |
| 802.11ac_VHT40_Nss1,(MCS0)_4TX | -      | -             | -                      | -                     | -                      | -                     | -                      | -                     | -                      | -                     |
| 5190MHz_TnomVnom               | Pass   | Inf           | 40.85M                 | 35.932M               | 40.15M                 | 35.932M               | 39.75M                 | 35.832M               | 39.9M                  | 35.882M               |
| 5230MHz_TnomVnom               | Pass   | Inf           | 41.05M                 | 35.882M               | 40.5M                  | 35.982M               | 39.95M                 | 35.932M               | 39.85M                 | 35.832M               |
| 5755MHz_TnomVnom               | Pass   | 500k          | 35.1M                  | 35.882M               | 35.1M                  | 35.982M               | 35.1M                  | 35.982M               | 35.05M                 | 35.932M               |
| 5795MHz_TnomVnom               | Pass   | 500k          | 35.05M                 | 35.882M               | 35.1M                  | 36.032M               | 35.1M                  | 35.932M               | 35.1M                  | 35.882M               |
| 802.11ac_VHT80_Nss1,(MCS0)_4TX | -      | -             | -                      | -                     | -                      | -                     | -                      | -                     | -                      | -                     |
| 5210MHz_TnomVnom               | Pass   | Inf           | 80.8M                  | 75.062M               | 80.4M                  | 75.162M               | 79.8M                  | 75.062M               | 80.5M                  | 75.062M               |
| 5775MHz_TnomVnom               | Pass   | 500k          | 73.8M                  | 75.162M               | 75.1M                  | 75.162M               | 75.1M                  | 74.963M               | 73.8M                  | 74.863M               |

**Port X-N dB** = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

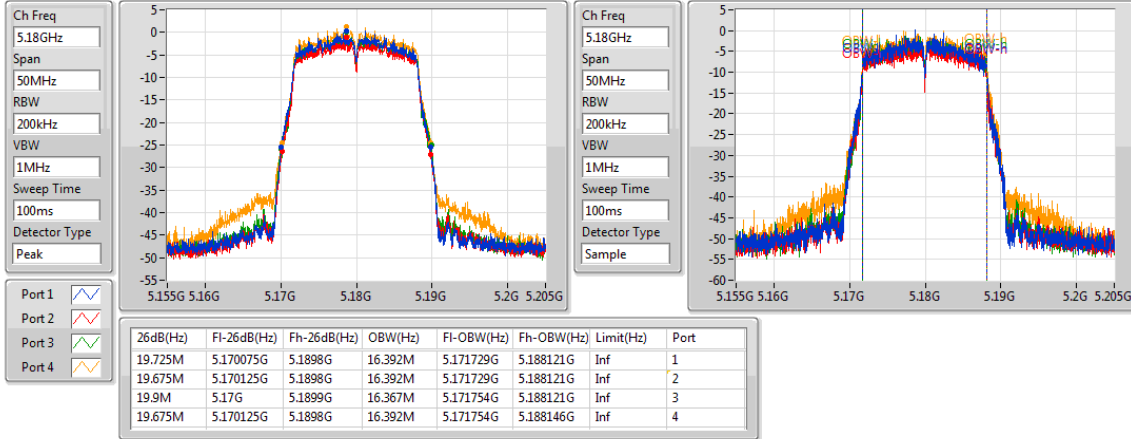
**Port X-OBW** = Port X 99% occupied bandwidth;

## 802.11a\_Nss1,(6Mbps)\_4TX

EBW

5180MHz

17/04/2018

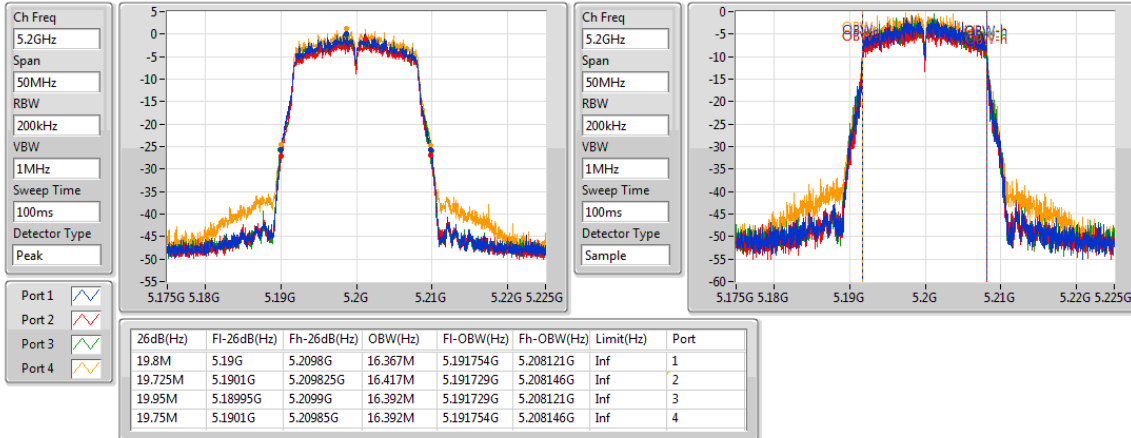


## 802.11a\_Nss1,(6Mbps)\_4TX

EBW

5200MHz

17/04/2018

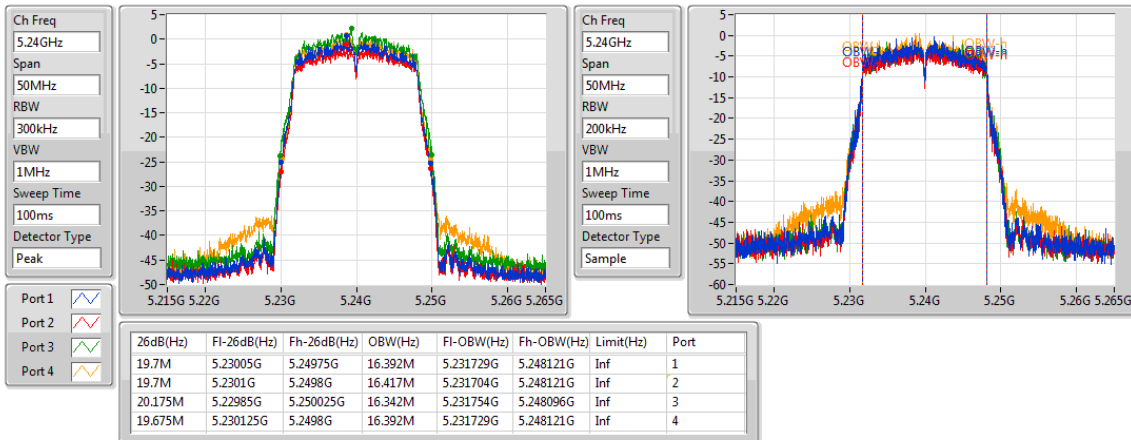


## 802.11a\_Nss1,(6Mbps)\_4TX

EBW

5240MHz

17/04/2018

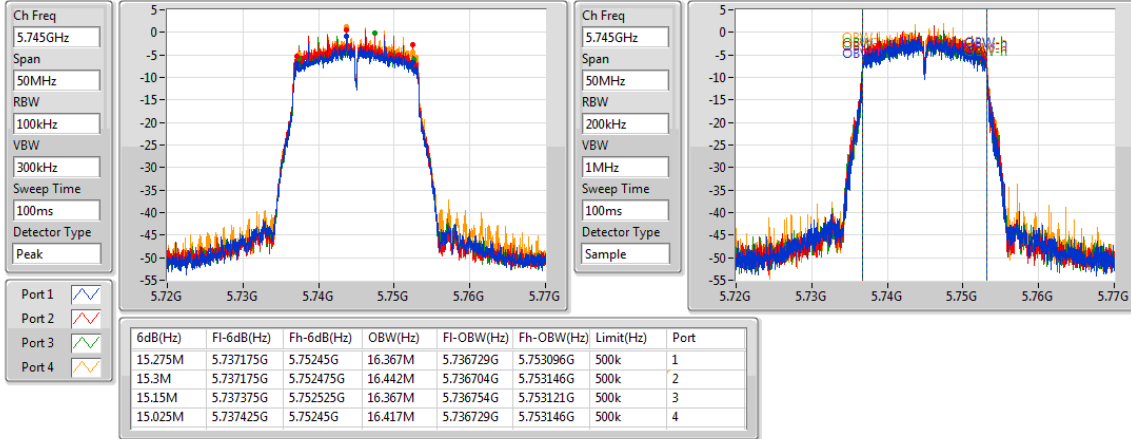


## 802.11a\_Nss1,(6Mbps)\_4TX

EBW

5745MHz

17/04/2018

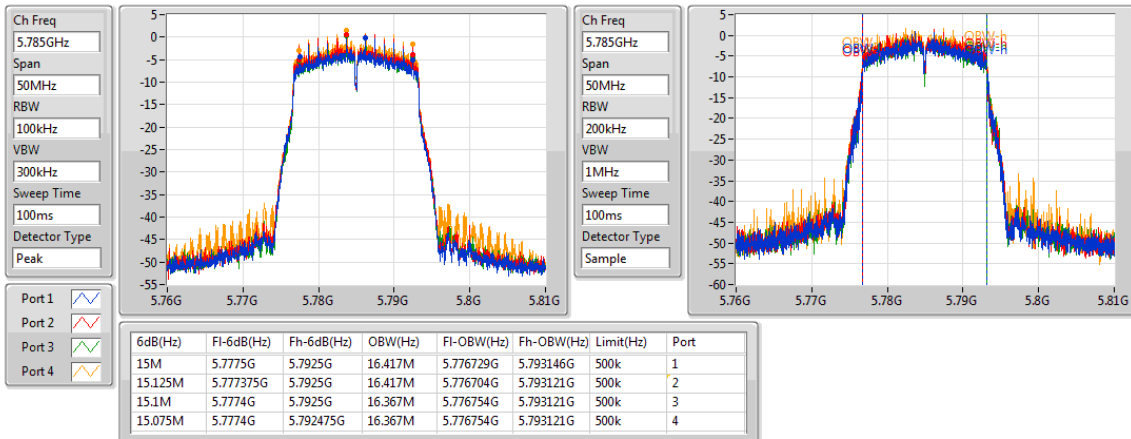


## 802.11a\_Nss1,(6Mbps)\_4TX

EBW

5785MHz

17/04/2018

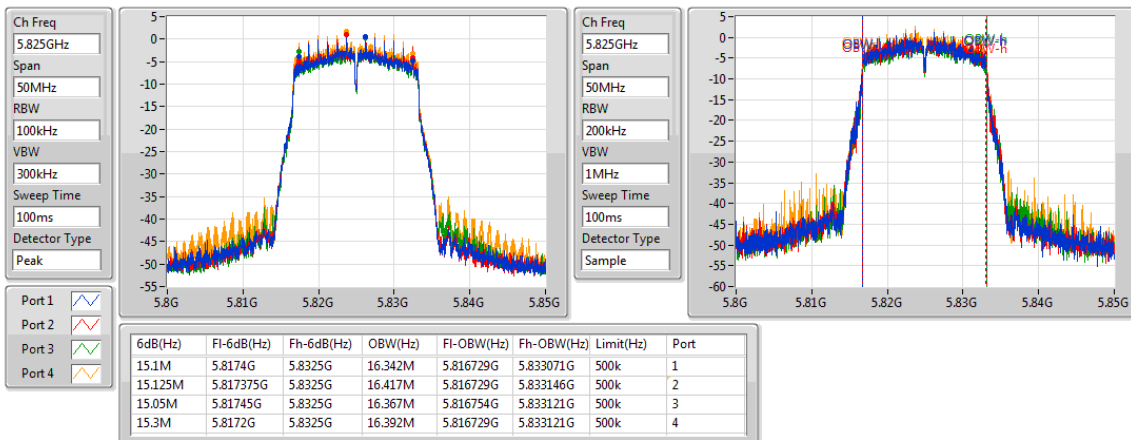


## 802.11a\_Nss1,(6Mbps)\_4TX

EBW

5825MHz

17/04/2018

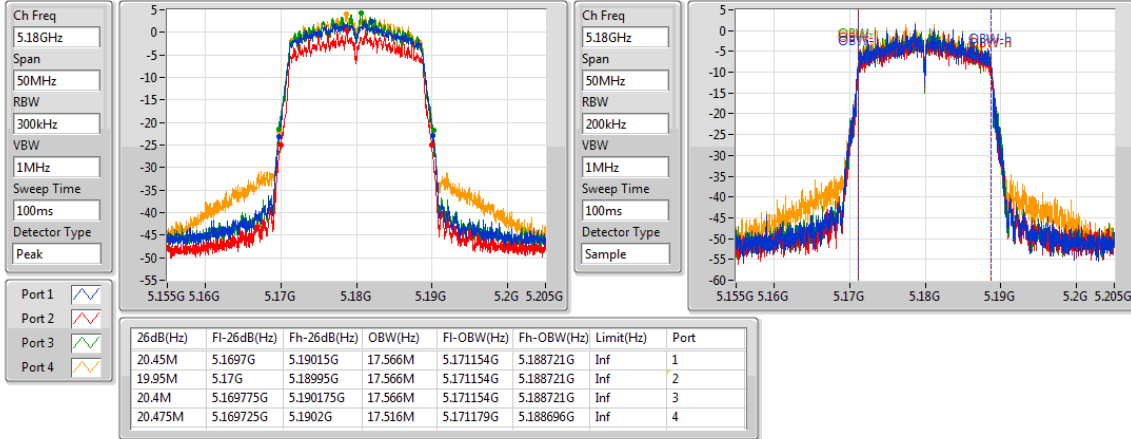


## 802.11ac VHT20\_Nss1,(MCS0)\_4TX

EBW

5180MHz

17/04/2018

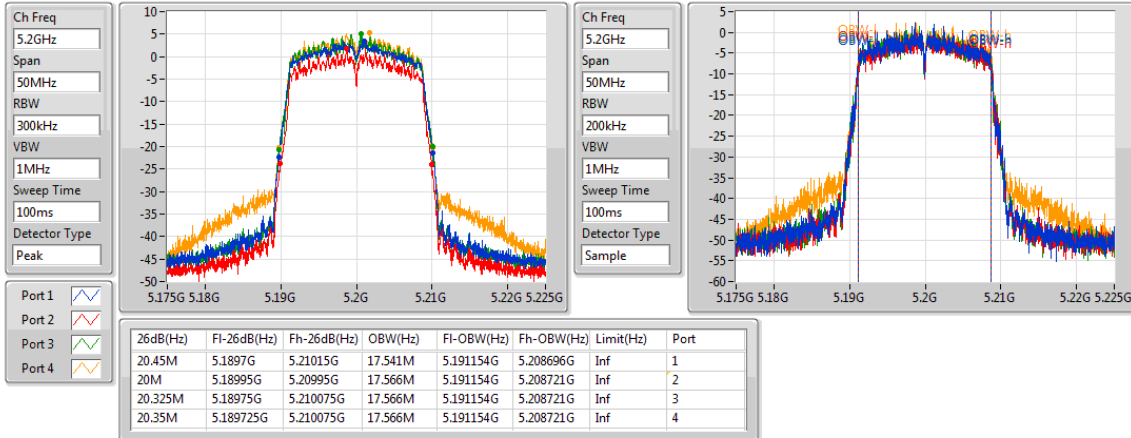


## 802.11ac VHT20\_Nss1,(MCS0)\_4TX

EBW

5200MHz

17/04/2018

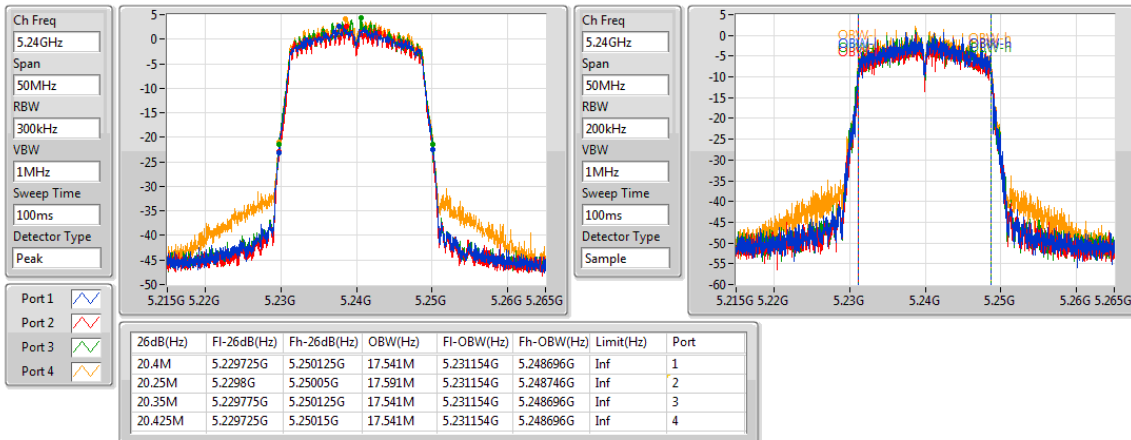


## 802.11ac VHT20\_Nss1,(MCS0)\_4TX

EBW

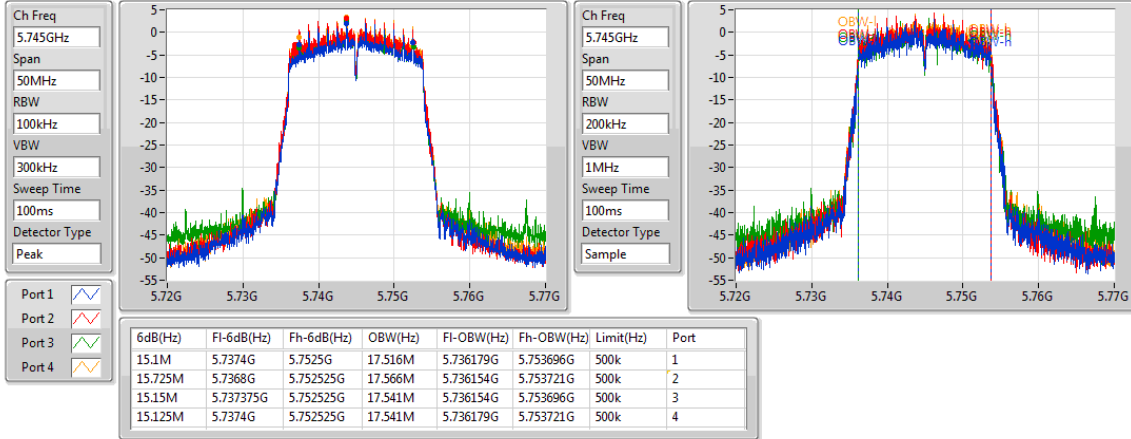
5240MHz

17/04/2018

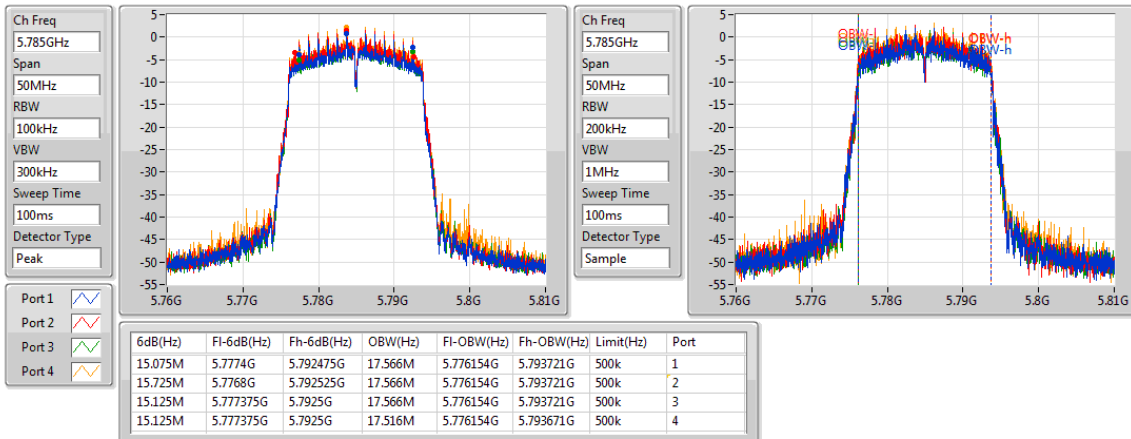


**802.11ac VHT20\_Nss1,(MCS0)\_4TX**
**EBW**
**5745MHz**

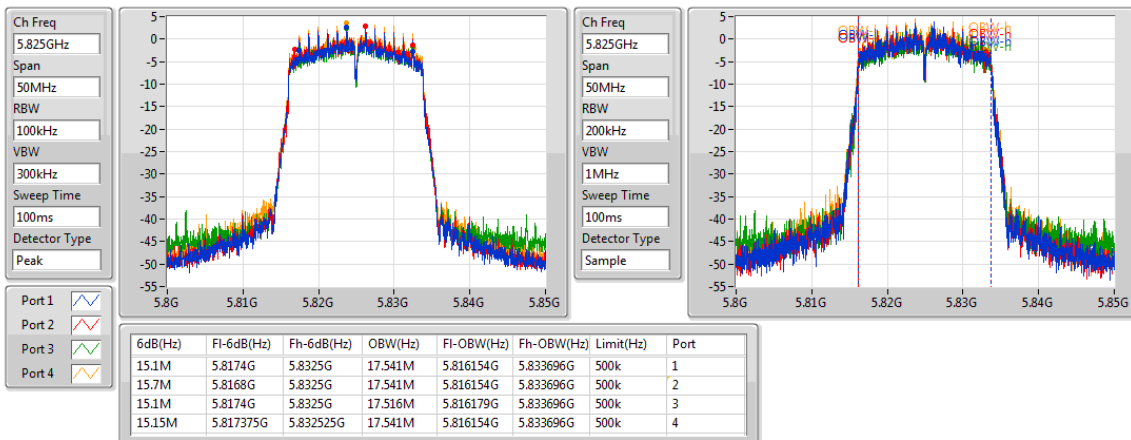
17/04/2018


**802.11ac VHT20\_Nss1,(MCS0)\_4TX**
**EBW**
**5785MHz**

17/04/2018


**802.11ac VHT20\_Nss1,(MCS0)\_4TX**
**EBW**
**5825MHz**

17/04/2018

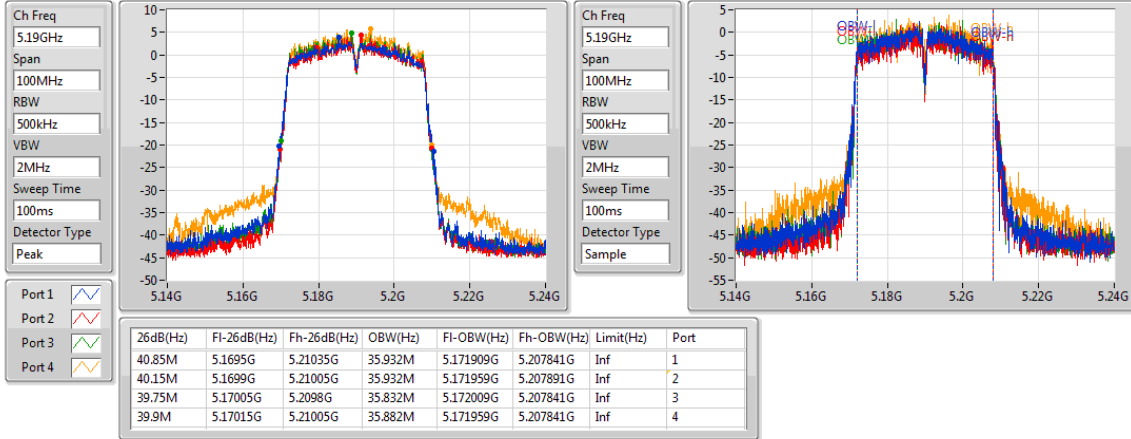


## 802.11ac VHT40\_Nss1,(MCS0)\_4TX

EBW

5190MHz

17/04/2018

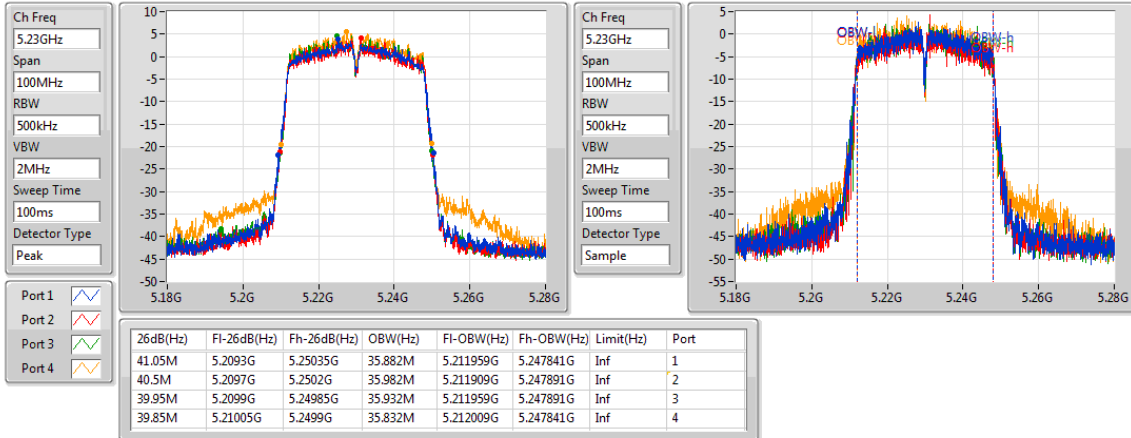


## 802.11ac VHT40\_Nss1,(MCS0)\_4TX

EBW

5230MHz

17/04/2018

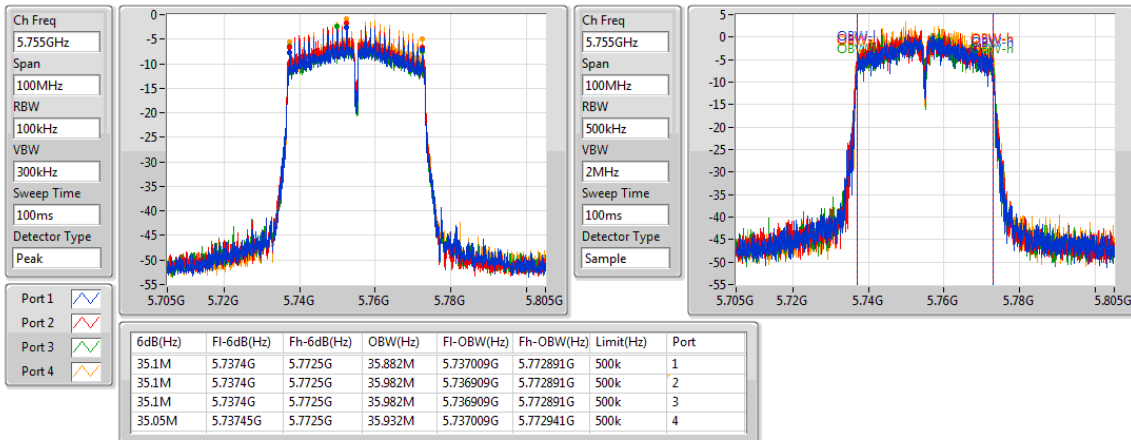


## 802.11ac VHT40\_Nss1,(MCS0)\_4TX

EBW

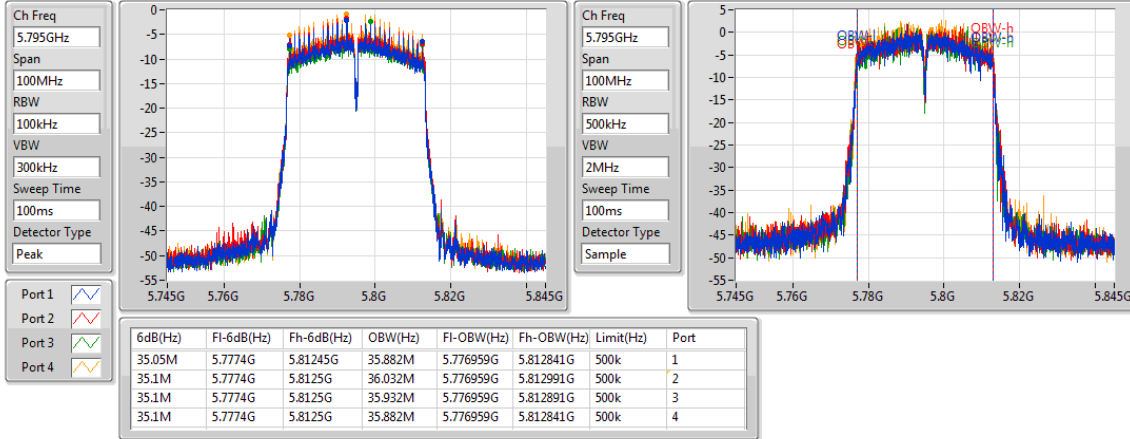
5755MHz

17/04/2018

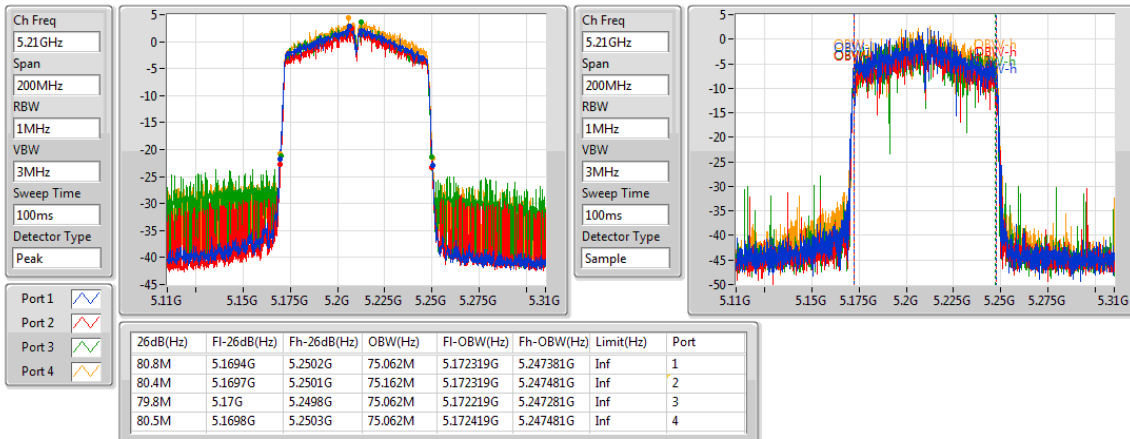


**802.11ac VHT40\_Nss1,(MCS0)\_4TX**
**EBW**
**5795MHz**

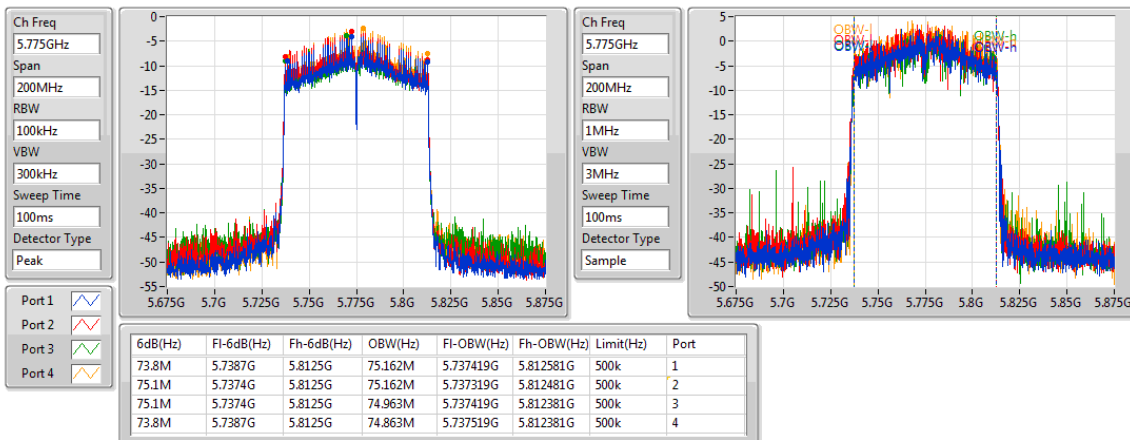
17/04/2018


**802.11ac VHT80\_Nss1,(MCS0)\_4TX**
**EBW**
**5210MHz**

17/04/2018


**802.11ac VHT80\_Nss1,(MCS0)\_4TX**
**EBW**
**5775MHz**

17/04/2018



**Summary**

| Mode                              | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|-----------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 5.15-5.25GHz                      | -                | -               | -        | -                | -               |
| 802.11ac VHT20-BF_Nss1,(MCS0)_4TX | 20.725M          | 17.716M         | 17M7D1D  | 20.45M           | 17.616M         |
| 802.11ac VHT40-BF_Nss1,(MCS0)_4TX | 41.35M           | 36.282M         | 36M3D1D  | 40.85M           | 36.132M         |
| 802.11ac VHT80-BF_Nss1,(MCS0)_4TX | 81.9M            | 75.862M         | 75M9D1D  | 81.7M            | 75.762M         |
| 5.725-5.85GHz                     | -                | -               | -        | -                | -               |
| 802.11ac VHT20-BF_Nss1,(MCS0)_4TX | 17.7M            | 17.741M         | 17M7D1D  | 15.025M          | 17.666M         |
| 802.11ac VHT40-BF_Nss1,(MCS0)_4TX | 35.65M           | 36.232M         | 36M2D1D  | 33.75M           | 36.132M         |
| 802.11ac VHT80-BF_Nss1,(MCS0)_4TX | 73.8M            | 75.962M         | 76M0D1D  | 61.3M            | 75.762M         |

**Max-N dB** = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

**Max-OBW** = Maximum 99% 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<br>(Hz) | Port 1-N<br>dB<br>(Hz) | Port<br>1-OBW<br>(Hz) | Port 2-N<br>dB<br>(Hz) | Port<br>2-OBW<br>(Hz) | Port 3-N<br>dB<br>(Hz) | Port<br>3-OBW<br>(Hz) | Port 4-N<br>dB<br>(Hz) | Port<br>4-OBW<br>(Hz) |
|-----------------------------------|--------|---------------|------------------------|-----------------------|------------------------|-----------------------|------------------------|-----------------------|------------------------|-----------------------|
| 802.11ac VHT20-BF_Nss1,(MCS0)_4TX | -      | -             | -                      | -                     | -                      | -                     | -                      | -                     | -                      | -                     |
| 5180MHz_TnomVnom                  | Pass   | Inf           | 20.6M                  | 17.616M               | 20.6M                  | 17.691M               | 20.525M                | 17.666M               | 20.725M                | 17.691M               |
| 5200MHz_TnomVnom                  | Pass   | Inf           | 20.525M                | 17.616M               | 20.65M                 | 17.616M               | 20.45M                 | 17.616M               | 20.725M                | 17.691M               |
| 5240MHz_TnomVnom                  | Pass   | Inf           | 20.675M                | 17.666M               | 20.55M                 | 17.691M               | 20.525M                | 17.716M               | 20.625M                | 17.716M               |
| 5745MHz_TnomVnom                  | Pass   | 500k          | 16.3M                  | 17.691M               | 16.075M                | 17.691M               | 16.075M                | 17.691M               | 16.075M                | 17.691M               |
| 5785MHz_TnomVnom                  | Pass   | 500k          | 17.55M                 | 17.741M               | 17.55M                 | 17.716M               | 17.7M                  | 17.666M               | 15.65M                 | 17.716M               |
| 5825MHz_TnomVnom                  | Pass   | 500k          | 15.025M                | 17.691M               | 15.025M                | 17.666M               | 16.3M                  | 17.741M               | 16.075M                | 17.691M               |
| 802.11ac VHT40-BF_Nss1,(MCS0)_4TX | -      | -             | -                      | -                     | -                      | -                     | -                      | -                     | -                      | -                     |
| 5190MHz_TnomVnom                  | Pass   | Inf           | 41.1M                  | 36.182M               | 40.85M                 | 36.132M               | 41.35M                 | 36.182M               | 41.25M                 | 36.282M               |
| 5230MHz_TnomVnom                  | Pass   | Inf           | 41.25M                 | 36.232M               | 40.85M                 | 36.182M               | 41.15M                 | 36.282M               | 40.95M                 | 36.232M               |
| 5755MHz_TnomVnom                  | Pass   | 500k          | 35.65M                 | 36.182M               | 35.05M                 | 36.182M               | 34.95M                 | 36.132M               | 34.95M                 | 36.182M               |
| 5795MHz_TnomVnom                  | Pass   | 500k          | 35.1M                  | 36.182M               | 33.75M                 | 36.232M               | 35.05M                 | 36.182M               | 35.3M                  | 36.232M               |
| 802.11ac VHT80-BF_Nss1,(MCS0)_4TX | -      | -             | -                      | -                     | -                      | -                     | -                      | -                     | -                      | -                     |
| 5210MHz_TnomVnom                  | Pass   | Inf           | 81.8M                  | 75.862M               | 81.7M                  | 75.862M               | 81.9M                  | 75.762M               | 81.9M                  | 75.862M               |
| 5775MHz_TnomVnom                  | Pass   | 500k          | 72.4M                  | 75.762M               | 73.8M                  | 75.962M               | 62.6M                  | 75.862M               | 61.3M                  | 75.762M               |

**Port X-N dB** = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

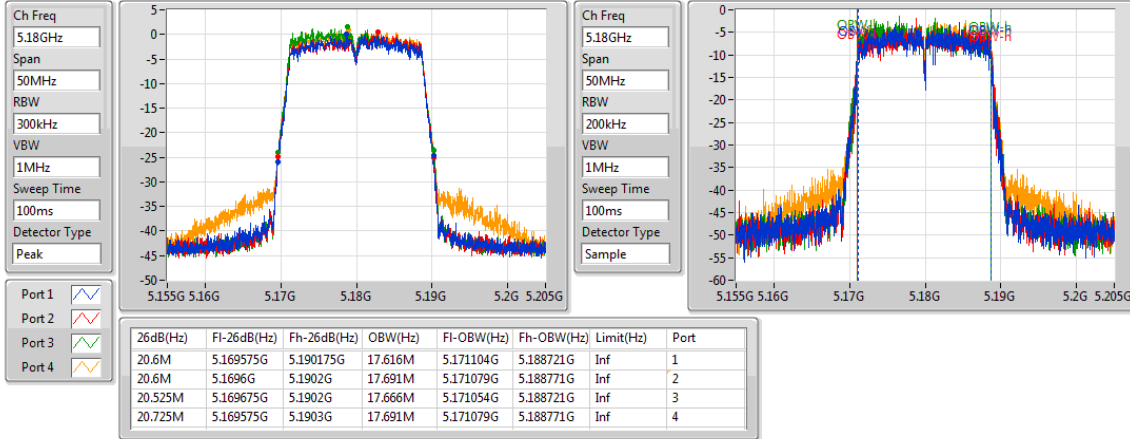
**Port X-OBW** = Port X 99% occupied bandwidth;

### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

EBW

5180MHz

17/04/2018

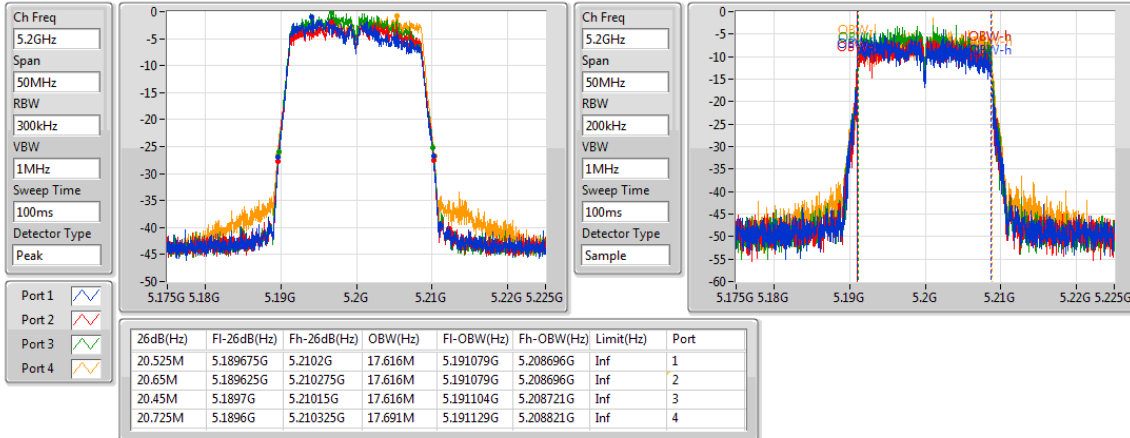


### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

EBW

5200MHz

17/04/2018

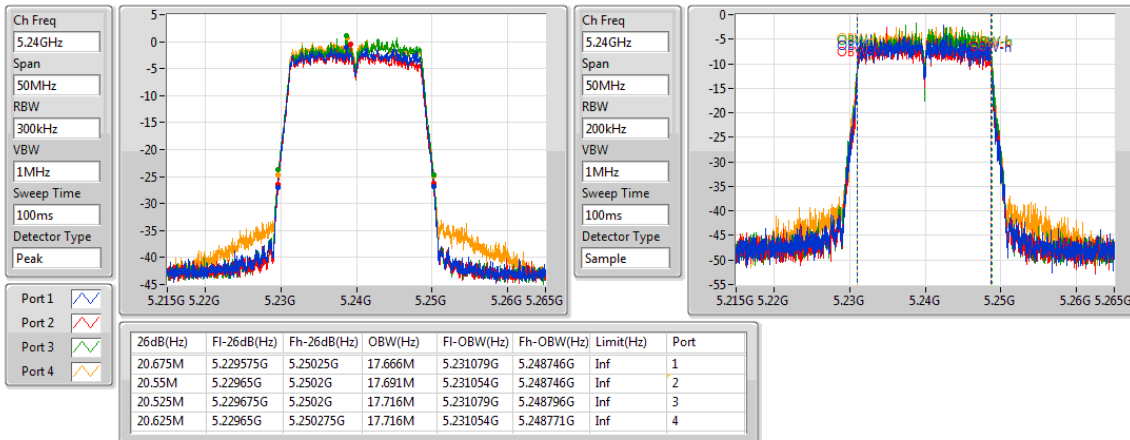


### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

EBW

5240MHz

17/04/2018

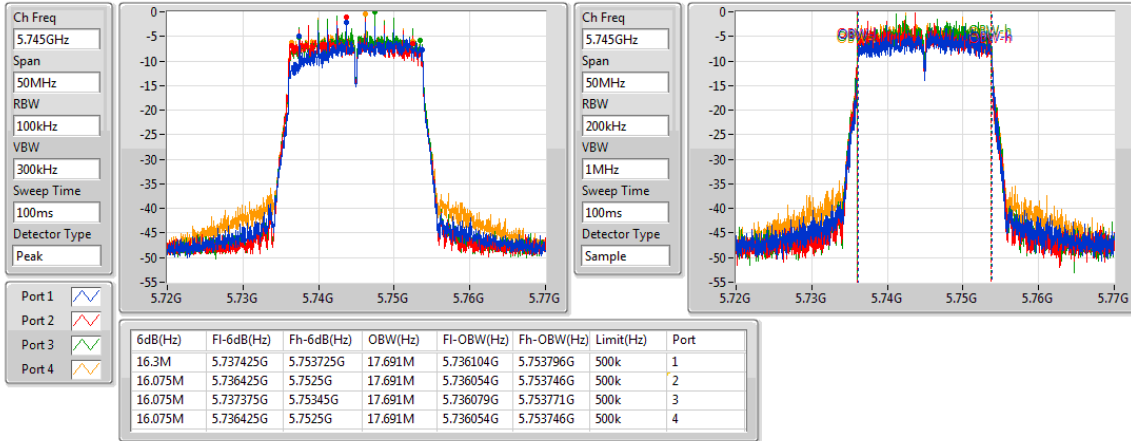


802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

EBW

5745MHz

17/04/2018

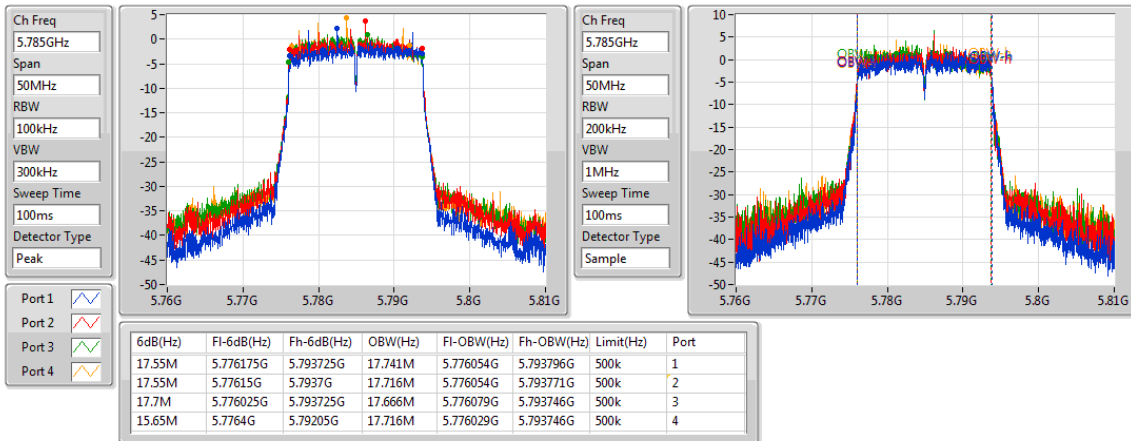


802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

EBW

5785MHz

17/04/2018

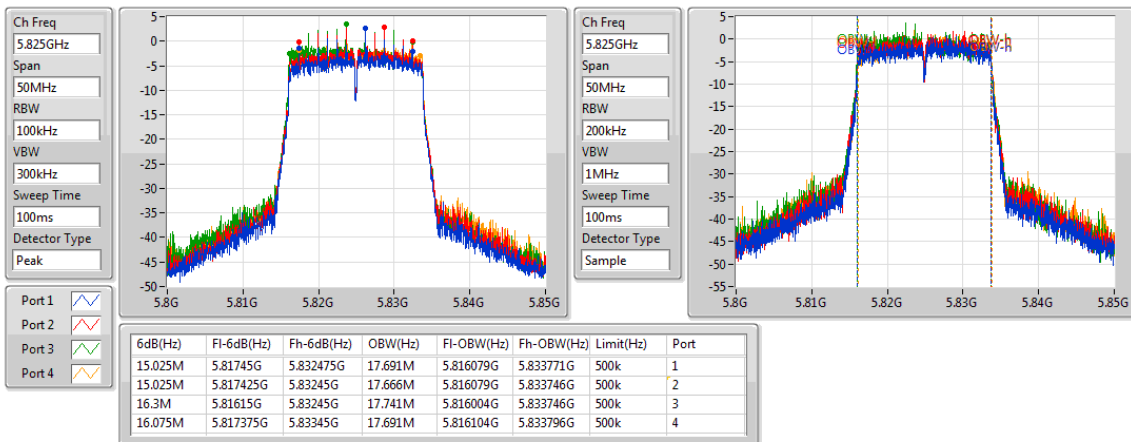


802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

EBW

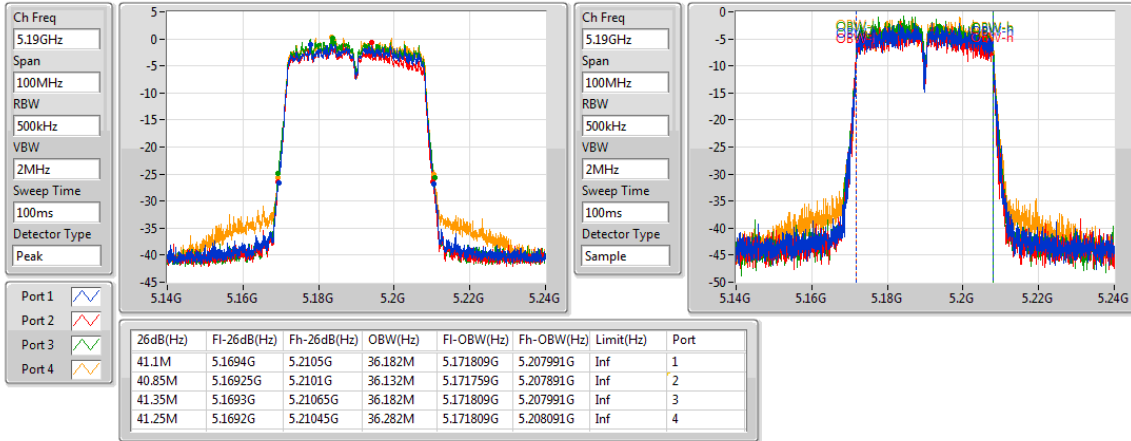
5825MHz

17/04/2018

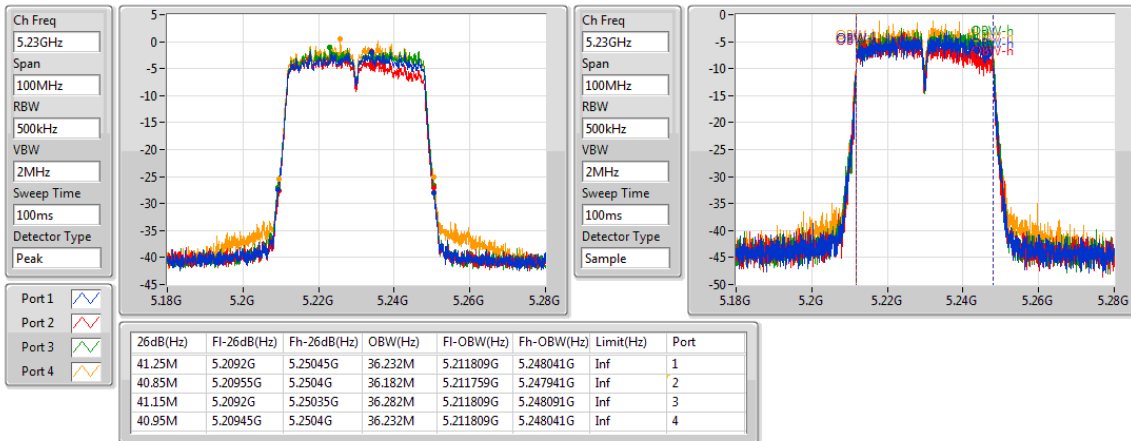


**802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX**
**EBW**
**5190MHz**

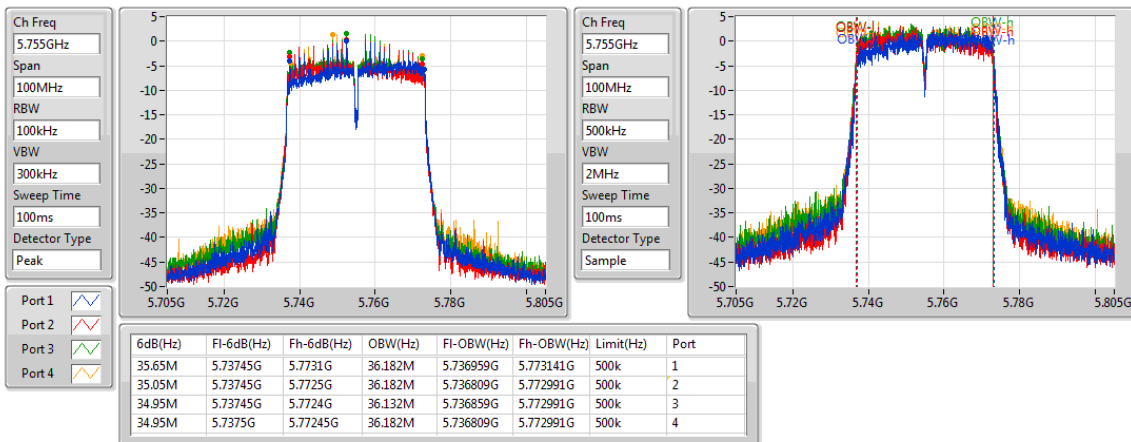
17/04/2018


**802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX**
**EBW**
**5230MHz**

17/04/2018


**802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX**
**EBW**
**5755MHz**

17/04/2018

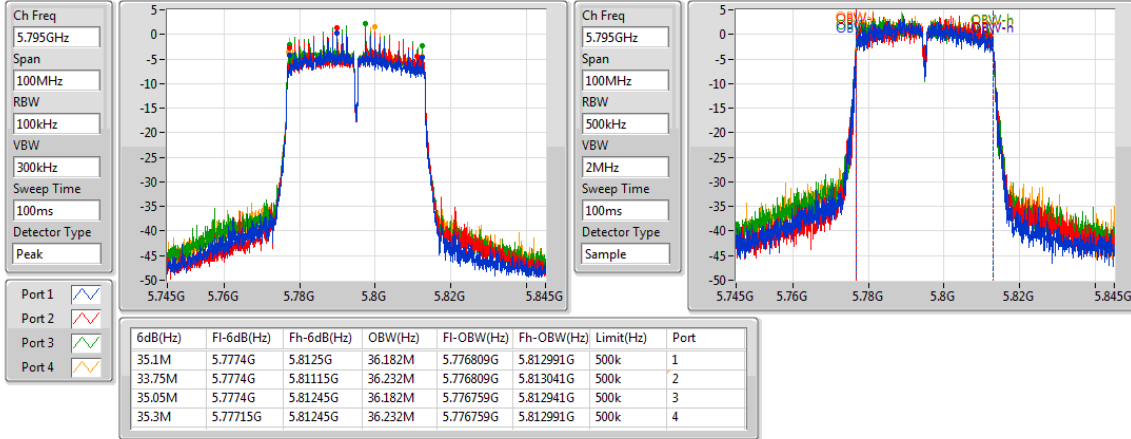


### 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

EBW

5795MHz

17/04/2018

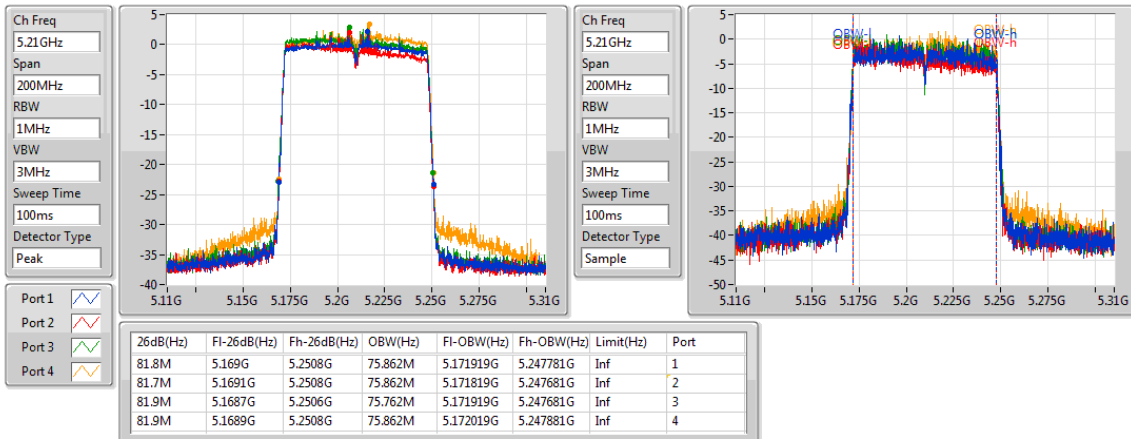


### 802.11ac VHT80-BF\_Nss1,(MCS0)\_4TX

EBW

5210MHz

17/04/2018

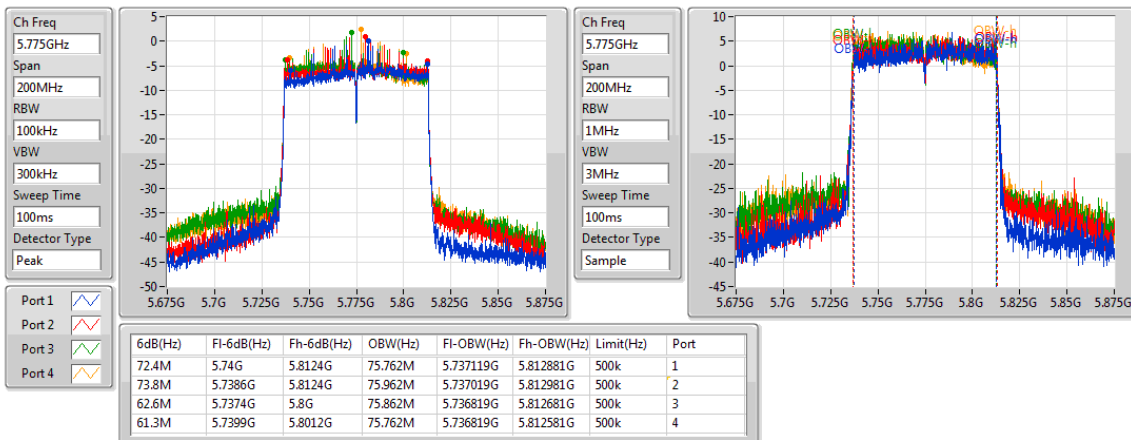


### 802.11ac VHT80-BF\_Nss1,(MCS0)\_4TX

EBW

5775MHz

17/04/2018



**Summary**

| Mode                           | Total Power<br>(dBm) | Total Power<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) |
|--------------------------------|----------------------|--------------------|---------------|-------------|
| 5.15-5.25GHz                   | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_4TX       | 15.31                | 0.03396            | 18.81         | 0.07603     |
| 802.11ac VHT20_Nss1,(MCS0)_4TX | 17.10                | 0.05129            | 20.60         | 0.11482     |
| 802.11ac VHT40_Nss1,(MCS0)_4TX | 17.02                | 0.05035            | 20.52         | 0.11272     |
| 802.11ac VHT80_Nss1,(MCS0)_4TX | 15.09                | 0.03228            | 18.59         | 0.07228     |
| 5.725-5.85GHz                  | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_4TX       | 17.38                | 0.05470            | 21.28         | 0.13428     |
| 802.11ac VHT20_Nss1,(MCS0)_4TX | 18.84                | 0.07656            | 22.74         | 0.18793     |
| 802.11ac VHT40_Nss1,(MCS0)_4TX | 16.28                | 0.04246            | 20.18         | 0.10423     |
| 802.11ac VHT80_Nss1,(MCS0)_4TX | 16.66                | 0.04634            | 20.56         | 0.11376     |

## Result

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Port 3<br>(dBm) | Port 4<br>(dBm) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|-----------------|-----------------|-----------------|-------------------------|-------------------------|---------------|---------------------|
| 802.11a_Nss1,(6Mbps)_4TX       | -      | -           | -               | -               | -               | -               | -                       | -                       | -             | -                   |
| 5180MHz_TnomVnom               | Pass   | 3.50        | 9.26            | 8.34            | 9.07            | 10.28           | 15.31                   | 30.00                   | 18.81         | 36.00               |
| 5200MHz_TnomVnom               | Pass   | 3.50        | 9.31            | 8.26            | 8.82            | 10.01           | 15.17                   | 30.00                   | 18.67         | 36.00               |
| 5240MHz_TnomVnom               | Pass   | 3.50        | 9.37            | 8.26            | 9.08            | 10.15           | 15.29                   | 30.00                   | 18.79         | 36.00               |
| 5745MHz_TnomVnom               | Pass   | 3.90        | 10.06           | 11.11           | 10.44           | 11.54           | 16.85                   | 30.00                   | 20.75         | 36.00               |
| 5785MHz_TnomVnom               | Pass   | 3.90        | 10.36           | 11.09           | 10.41           | 11.72           | 16.95                   | 30.00                   | 20.85         | 36.00               |
| 5825MHz_TnomVnom               | Pass   | 3.90        | 11.18           | 11.21           | 10.66           | 12.25           | 17.38                   | 30.00                   | 21.28         | 36.00               |
| 802.11ac_VHT20_Nss1,(MCS0)_4TX | -      | -           | -               | -               | -               | -               | -                       | -                       | -             | -                   |
| 5180MHz_TnomVnom               | Pass   | 3.50        | 10.06           | 9.47            | 9.87            | 10.91           | 16.13                   | 30.00                   | 19.63         | 36.00               |
| 5200MHz_TnomVnom               | Pass   | 3.50        | 10.97           | 10.46           | 10.92           | 11.85           | 17.10                   | 30.00                   | 20.60         | 36.00               |
| 5240MHz_TnomVnom               | Pass   | 3.50        | 10.15           | 9.47            | 9.84            | 10.95           | 16.16                   | 30.00                   | 19.66         | 36.00               |
| 5745MHz_TnomVnom               | Pass   | 3.90        | 11.82           | 13.17           | 12.36           | 13.44           | 18.77                   | 30.00                   | 22.67         | 36.00               |
| 5785MHz_TnomVnom               | Pass   | 3.90        | 10.57           | 11.42           | 10.71           | 12.13           | 17.27                   | 30.00                   | 21.17         | 36.00               |
| 5825MHz_TnomVnom               | Pass   | 3.90        | 12.51           | 12.75           | 12.17           | 13.71           | 18.84                   | 30.00                   | 22.74         | 36.00               |
| 802.11ac_VHT40_Nss1,(MCS0)_4TX | -      | -           | -               | -               | -               | -               | -                       | -                       | -             | -                   |
| 5190MHz_TnomVnom               | Pass   | 3.50        | 11.10           | 10.27           | 10.77           | 11.72           | 17.02                   | 30.00                   | 20.52         | 36.00               |
| 5230MHz_TnomVnom               | Pass   | 3.50        | 10.97           | 10.29           | 10.53           | 11.73           | 16.94                   | 30.00                   | 20.44         | 36.00               |
| 5755MHz_TnomVnom               | Pass   | 3.90        | 9.53            | 10.26           | 9.58            | 10.99           | 16.15                   | 30.00                   | 20.05         | 36.00               |
| 5795MHz_TnomVnom               | Pass   | 3.90        | 9.83            | 10.15           | 9.60            | 11.27           | 16.28                   | 30.00                   | 20.18         | 36.00               |
| 802.11ac_VHT80_Nss1,(MCS0)_4TX | -      | -           | -               | -               | -               | -               | -                       | -                       | -             | -                   |
| 5210MHz_TnomVnom               | Pass   | 3.50        | 9.17            | 8.34            | 8.65            | 9.94            | 15.09                   | 30.00                   | 18.59         | 36.00               |
| 5775MHz_TnomVnom               | Pass   | 3.90        | 10.23           | 10.64           | 10.04           | 11.50           | 16.66                   | 30.00                   | 20.56         | 36.00               |

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

**Summary**

| Mode                              | Total Power<br>(dBm) | Total Power<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) |
|-----------------------------------|----------------------|--------------------|---------------|-------------|
| 5.15-5.25GHz                      | -                    | -                  | -             | -           |
| 802.11ac VHT20-BF_Nss1,(MCS0)_4TX | 15.26                | 0.03357            | 24.78         | 0.30061     |
| 802.11ac VHT40-BF_Nss1,(MCS0)_4TX | 14.89                | 0.03083            | 24.41         | 0.27606     |
| 802.11ac VHT80-BF_Nss1,(MCS0)_4TX | 16.08                | 0.04055            | 25.60         | 0.36308     |
| 5.725-5.85GHz                     | -                    | -                  | -             | -           |
| 802.11ac VHT20-BF_Nss1,(MCS0)_4TX | 20.20                | 0.10471            | 30.12         | 1.02802     |
| 802.11ac VHT40-BF_Nss1,(MCS0)_4TX | 19.89                | 0.09750            | 29.81         | 0.95719     |
| 802.11ac VHT80-BF_Nss1,(MCS0)_4TX | 22.01                | 0.15885            | 31.93         | 1.55955     |

**Result**

| Mode                              | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Port 3<br>(dBm) | Port 4<br>(dBm) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|-----------------------------------|--------|-------------|-----------------|-----------------|-----------------|-----------------|-------------------------|-------------------------|---------------|---------------------|
| 802.11ac VHT20-BF_Nss1,(MCS0)_4TX | -      | -           | -               | -               | -               | -               | -                       | -                       | -             | -                   |
| 5180MHz_TnomVnom                  | Pass   | 9.52        | 8.59            | 8.81            | 9.65            | 9.78            | 15.26                   | 26.48                   | 24.78         | 36.00               |
| 5200MHz_TnomVnom                  | Pass   | 9.52        | 6.48            | 6.51            | 8.22            | 8.18            | 13.45                   | 26.48                   | 22.97         | 36.00               |
| 5240MHz_TnomVnom                  | Pass   | 9.52        | 7.24            | 7.08            | 8.35            | 8.81            | 13.95                   | 26.48                   | 23.47         | 36.00               |
| 5745MHz_TnomVnom                  | Pass   | 9.92        | 8.12            | 8.83            | 9.78            | 9.53            | 15.13                   | 26.08                   | 25.05         | 36.00               |
| 5785MHz_TnomVnom                  | Pass   | 9.92        | 13.40           | 14.00           | 14.65           | 14.57           | 20.20                   | 26.08                   | 30.12         | 36.00               |
| 5825MHz_TnomVnom                  | Pass   | 9.92        | 11.72           | 12.79           | 13.15           | 12.72           | 18.65                   | 26.08                   | 28.57         | 36.00               |
| 802.11ac VHT40-BF_Nss1,(MCS0)_4TX | -      | -           | -               | -               | -               | -               | -                       | -                       | -             | -                   |
| 5190MHz_TnomVnom                  | Pass   | 9.52        | 8.52            | 7.91            | 9.36            | 9.49            | 14.89                   | 26.48                   | 24.41         | 36.00               |
| 5230MHz_TnomVnom                  | Pass   | 9.52        | 7.61            | 6.95            | 8.19            | 8.58            | 13.90                   | 26.48                   | 23.42         | 36.00               |
| 5755MHz_TnomVnom                  | Pass   | 9.92        | 12.61           | 13.02           | 13.85           | 13.96           | 19.42                   | 26.08                   | 29.34         | 36.00               |
| 5795MHz_TnomVnom                  | Pass   | 9.92        | 13.37           | 13.65           | 14.24           | 14.16           | 19.89                   | 26.08                   | 29.81         | 36.00               |
| 802.11ac VHT80-BF_Nss1,(MCS0)_4TX | -      | -           | -               | -               | -               | -               | -                       | -                       | -             | -                   |
| 5210MHz_TnomVnom                  | Pass   | 9.52        | 9.72            | 9.01            | 10.33           | 10.93           | 16.08                   | 26.48                   | 25.60         | 36.00               |
| 5775MHz_TnomVnom                  | Pass   | 9.92        | 15.18           | 15.95           | 16.29           | 16.44           | 22.01                   | 26.08                   | 31.93         | 36.00               |

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

**Summary**

| Mode                           | PD<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) |
|--------------------------------|-----------------|----------------------|
| 5.15-5.25GHz                   | -               | -                    |
| 802.11a_Nss1,(6Mbps)_4TX       | 3.82            | 13.34                |
| 802.11ac VHT20_Nss1,(MCS0)_4TX | 5.99            | 15.51                |
| 802.11ac VHT40_Nss1,(MCS0)_4TX | 2.13            | 11.65                |
| 802.11ac VHT80_Nss1,(MCS0)_4TX | -0.57           | 8.95                 |
| 5.725-5.85GHz                  | -               | -                    |
| 802.11a_Nss1,(6Mbps)_4TX       | 4.19            | 14.11                |
| 802.11ac VHT20_Nss1,(MCS0)_4TX | 6.15            | 16.07                |
| 802.11ac VHT40_Nss1,(MCS0)_4TX | 0.01            | 9.93                 |
| 802.11ac VHT80_Nss1,(MCS0)_4TX | 0.13            | 10.05                |

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

**Result**

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | Port 3<br>(dBm/RBW) | Port 4<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) | EIRP PD<br>Limit<br>(dBm/RBW) |
|--------------------------------|--------|-------------|---------------------|---------------------|---------------------|---------------------|-----------------|-----------------------|----------------------|-------------------------------|
| 802.11a_Nss1,(6Mbps)_4TX       | -      | -           | -                   | -                   | -                   | -                   | -               | -                     | -                    | -                             |
| 5180MHz_TnomVnom               | Pass   | 9.52        | -2.16               | -3.35               | -2.51               | -1.23               | 3.65            | 13.48                 | 13.17                | 23.00                         |
| 5200MHz_TnomVnom               | Pass   | 9.52        | -1.99               | -3.24               | -2.37               | -1.00               | 3.82            | 13.48                 | 13.34                | 23.00                         |
| 5240MHz_TnomVnom               | Pass   | 9.52        | -1.99               | -3.27               | -2.48               | -1.32               | 3.76            | 13.48                 | 13.28                | 23.00                         |
| 5745MHz_TnomVnom               | Pass   | 9.92        | -3.04               | -2.09               | -2.60               | -1.59               | 3.64            | 26.08                 | 13.56                | 36.00                         |
| 5785MHz_TnomVnom               | Pass   | 9.92        | -2.63               | -2.13               | -2.64               | -1.25               | 3.85            | 26.08                 | 13.77                | 36.00                         |
| 5825MHz_TnomVnom               | Pass   | 9.92        | -1.92               | -1.91               | -2.33               | -0.95               | 4.19            | 26.08                 | 14.11                | 36.00                         |
| 802.11ac_VHT20_Nss1,(MCS0)_4TX | -      | -           | -                   | -                   | -                   | -                   | -               | -                     | -                    | -                             |
| 5180MHz_TnomVnom               | Pass   | 9.52        | -1.03               | -1.76               | -1.19               | -0.08               | 5.01            | 13.48                 | 14.53                | 23.00                         |
| 5200MHz_TnomVnom               | Pass   | 9.52        | -0.10               | -0.58               | -0.06               | 0.88                | 5.99            | 13.48                 | 15.51                | 23.00                         |
| 5240MHz_TnomVnom               | Pass   | 9.52        | -0.92               | -1.59               | -1.14               | 0.09                | 5.03            | 13.48                 | 14.55                | 23.00                         |
| 5745MHz_TnomVnom               | Pass   | 9.92        | -0.75               | 0.59                | -0.19               | 0.74                | 6.03            | 26.08                 | 15.95                | 36.00                         |
| 5785MHz_TnomVnom               | Pass   | 9.92        | -1.85               | -0.97               | -1.66               | -0.22               | 4.77            | 26.08                 | 14.69                | 36.00                         |
| 5825MHz_TnomVnom               | Pass   | 9.92        | -0.22               | 0.32                | -0.50               | 1.16                | 6.15            | 26.08                 | 16.07                | 36.00                         |
| 802.11ac_VHT40_Nss1,(MCS0)_4TX | -      | -           | -                   | -                   | -                   | -                   | -               | -                     | -                    | -                             |
| 5190MHz_TnomVnom               | Pass   | 9.52        | -3.80               | -4.62               | -3.93               | -3.13               | 2.08            | 13.48                 | 11.60                | 23.00                         |
| 5230MHz_TnomVnom               | Pass   | 9.52        | -3.82               | -4.47               | -4.00               | -3.03               | 2.13            | 13.48                 | 11.65                | 23.00                         |
| 5755MHz_TnomVnom               | Pass   | 9.92        | -6.83               | -6.17               | -6.47               | -5.23               | -0.20           | 26.08                 | 9.72                 | 36.00                         |
| 5795MHz_TnomVnom               | Pass   | 9.92        | -6.50               | -6.20               | -6.74               | -4.84               | 0.01            | 26.08                 | 9.93                 | 36.00                         |
| 802.11ac_VHT80_Nss1,(MCS0)_4TX | -      | -           | -                   | -                   | -                   | -                   | -               | -                     | -                    | -                             |
| 5210MHz_TnomVnom               | Pass   | 9.52        | -6.43               | -7.30               | -6.77               | -5.62               | -0.57           | 13.48                 | 8.95                 | 23.00                         |
| 5775MHz_TnomVnom               | Pass   | 9.92        | -6.39               | -5.83               | -6.59               | -4.95               | 0.13            | 26.08                 | 10.05                | 36.00                         |

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

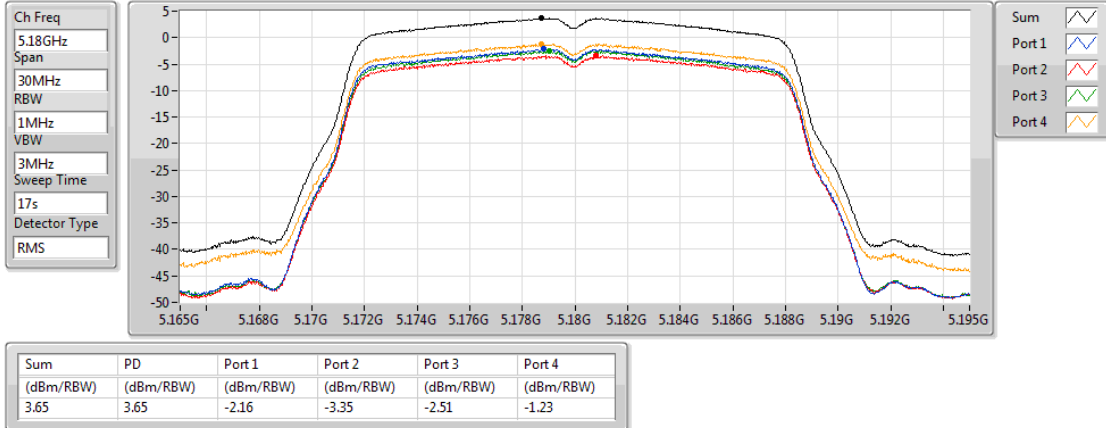
**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

### 802.11a\_Nss1,(6Mbps)\_4TX

### PSD

5180MHz

17/04/2018

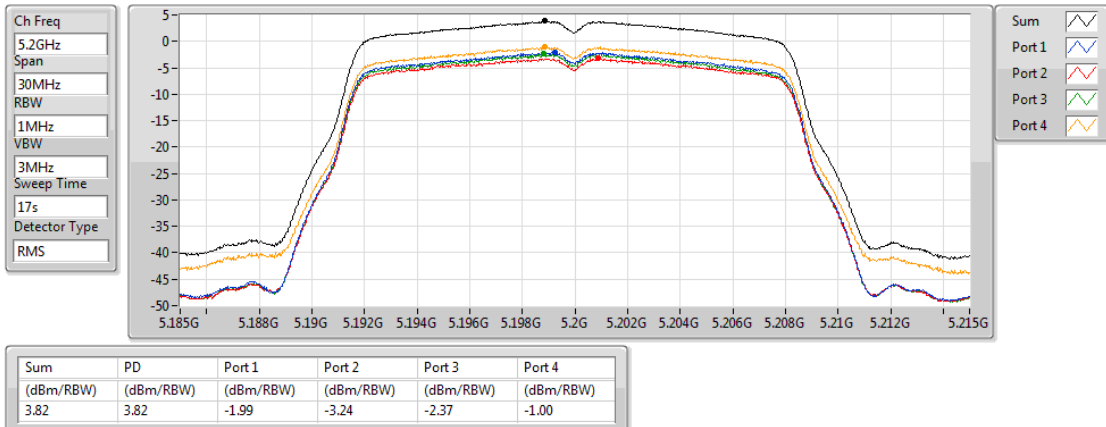


### 802.11a\_Nss1,(6Mbps)\_4TX

### PSD

5200MHz

17/04/2018

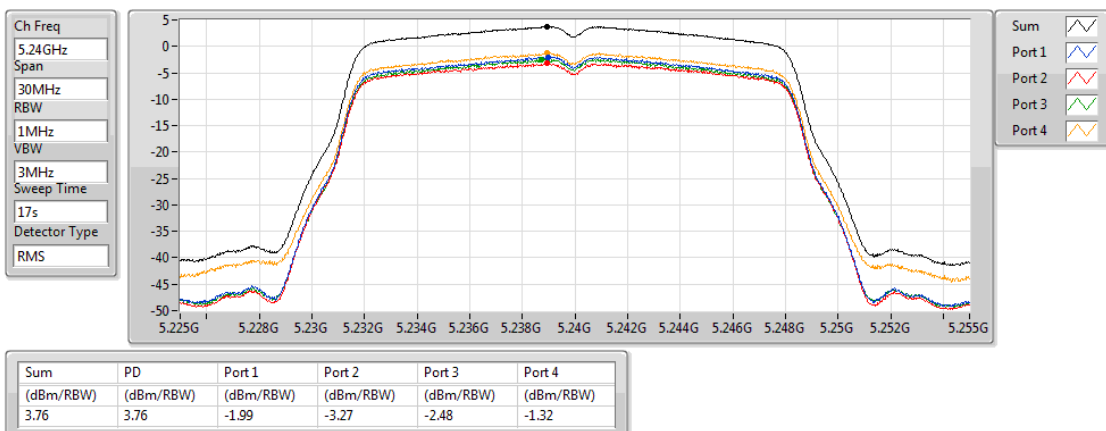


### 802.11a\_Nss1,(6Mbps)\_4TX

### PSD

5240MHz

17/04/2018



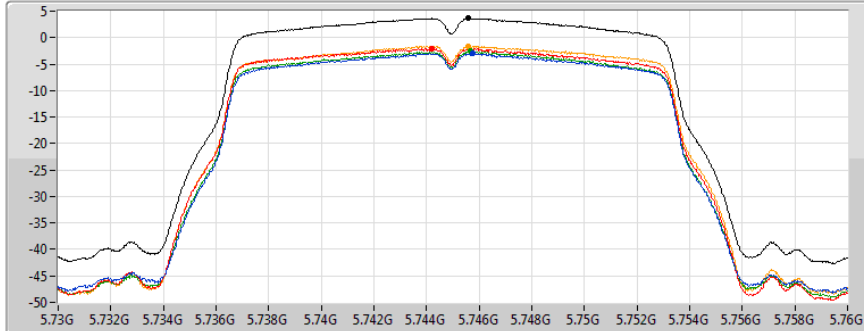
### 802.11a\_Nss1,(6Mbps)\_4TX

### PSD

5745MHz

17/04/2018

Ch Freq  
5.745GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
17s  
Detector Type  
RMS



Sum ☒  
Port 1 ☐  
Port 2 ☐  
Port 3 ☐  
Port 4 ☐

| Sum       | PD        | Port 1    | Port 2    | Port 3    | Port 4    |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 3.64      | 3.64      | -3.04     | -2.09     | -2.60     | -1.59     |

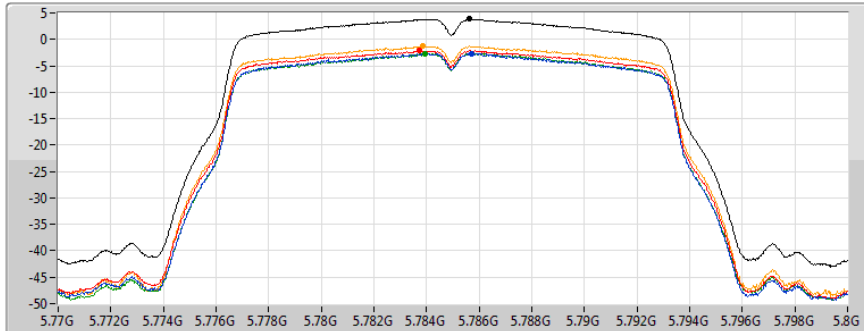
### 802.11a\_Nss1,(6Mbps)\_4TX

### PSD

5785MHz

17/04/2018

Ch Freq  
5.785GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
17s  
Detector Type  
RMS



Sum ☒  
Port 1 ☐  
Port 2 ☐  
Port 3 ☐  
Port 4 ☐

| Sum       | PD        | Port 1    | Port 2    | Port 3    | Port 4    |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 3.85      | 3.85      | -2.63     | -2.13     | -2.64     | -1.25     |

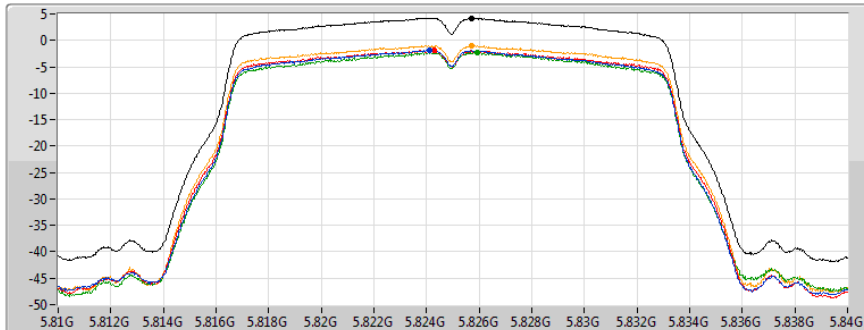
### 802.11a\_Nss1,(6Mbps)\_4TX

### PSD

5825MHz

17/04/2018

Ch Freq  
5.825GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
17s  
Detector Type  
RMS



Sum ☒  
Port 1 ☐  
Port 2 ☐  
Port 3 ☐  
Port 4 ☐

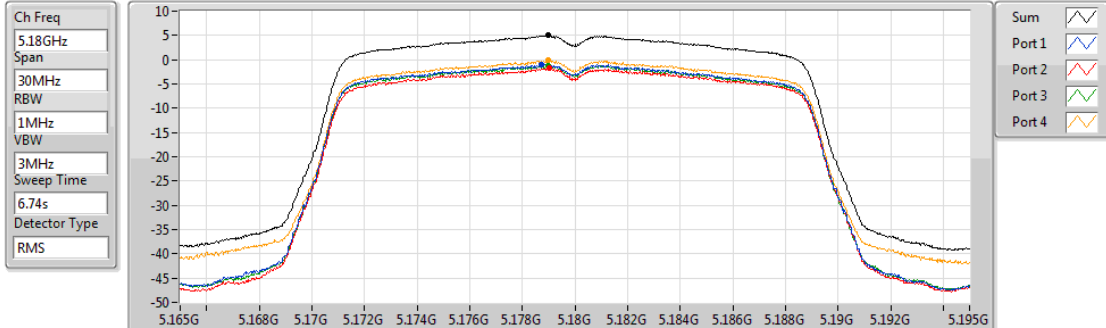
| Sum       | PD        | Port 1    | Port 2    | Port 3    | Port 4    |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 4.19      | 4.19      | -1.92     | -1.91     | -2.33     | -0.95     |

### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

5180MHz

PSD

17/04/2018



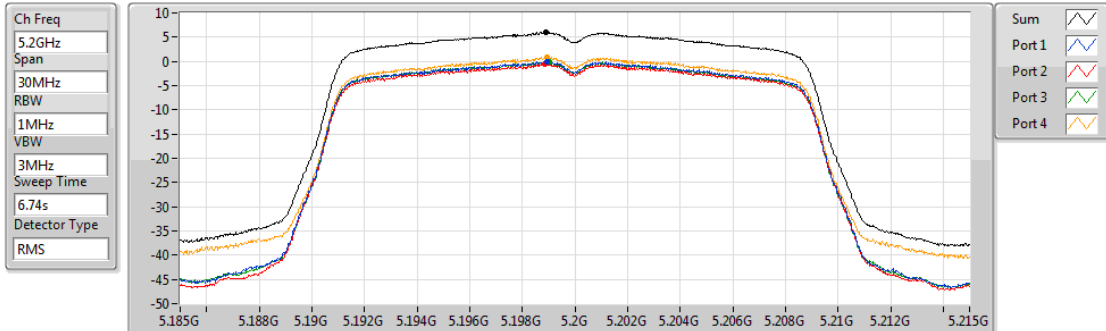
| Sum      | PD       | Port 1   | Port 2   | Port 3   | Port 4   |
|----------|----------|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 5.01     | 5.01     | -1.03    | -1.76    | -1.19    | -0.08    |

### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

5200MHz

PSD

17/04/2018



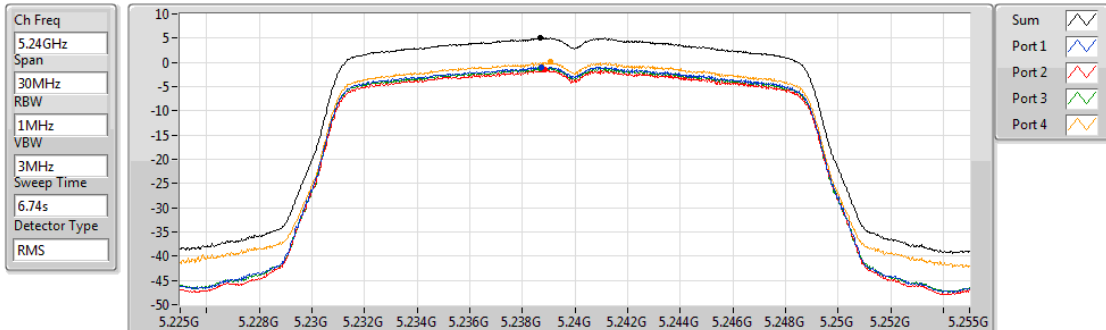
| Sum      | PD       | Port 1   | Port 2   | Port 3   | Port 4   |
|----------|----------|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 5.99     | 5.99     | -0.10    | -0.58    | -0.06    | 0.88     |

### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

5240MHz

PSD

17/04/2018



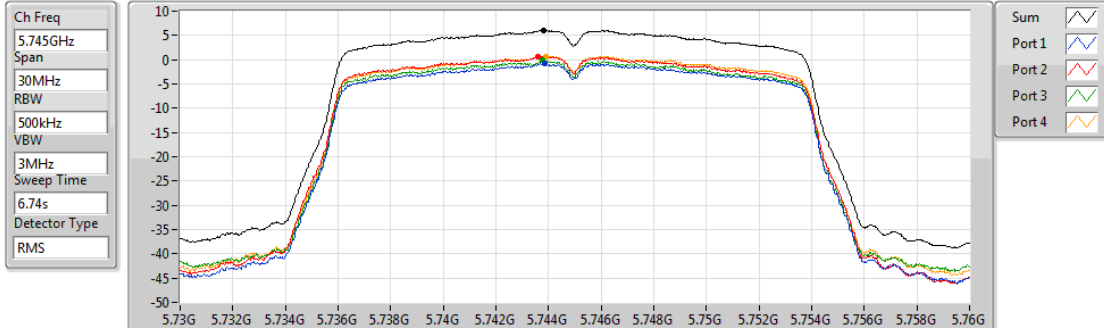
| Sum      | PD       | Port 1   | Port 2   | Port 3   | Port 4   |
|----------|----------|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 5.03     | 5.03     | -0.92    | -1.59    | -1.14    | 0.09     |

### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

5745MHz

PSD

17/04/2018

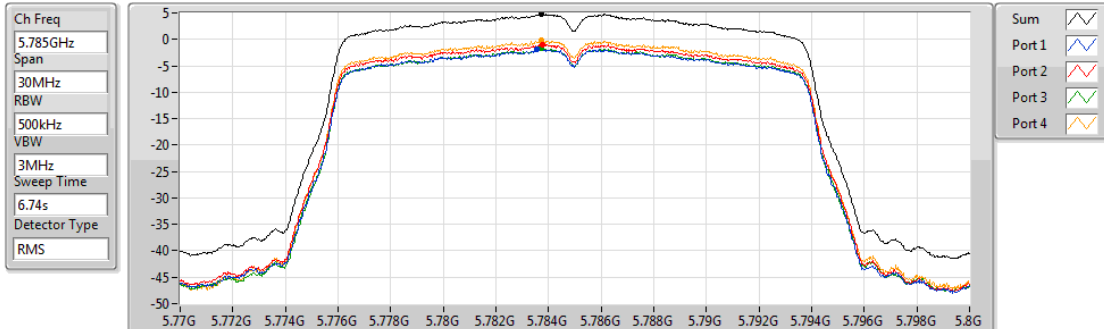


### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

5785MHz

PSD

17/04/2018

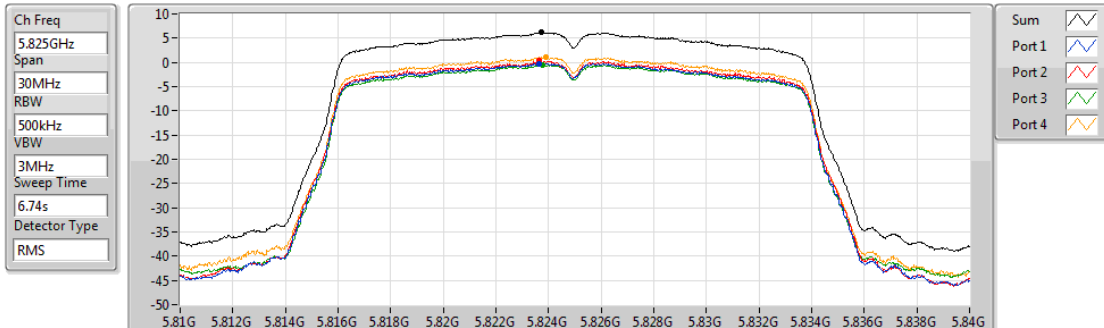


### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

5825MHz

PSD

17/04/2018

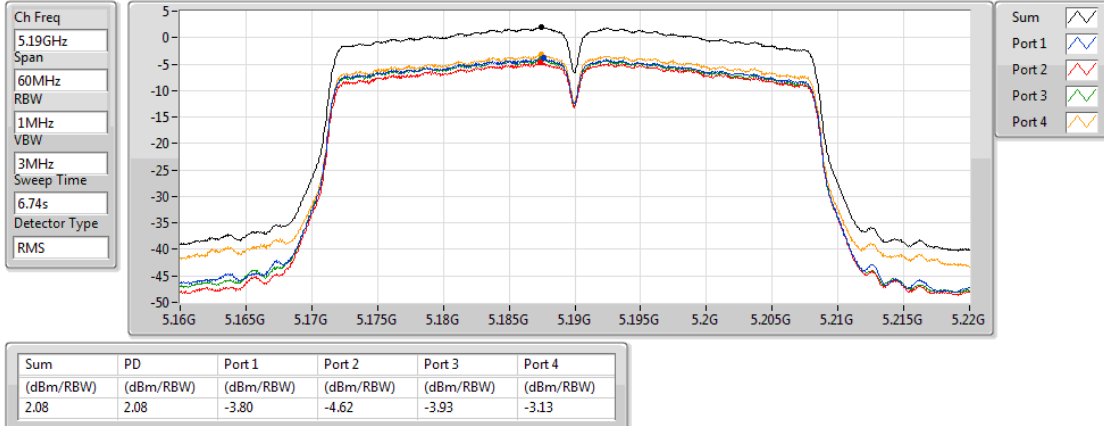


### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

5190MHz

PSD

17/04/2018

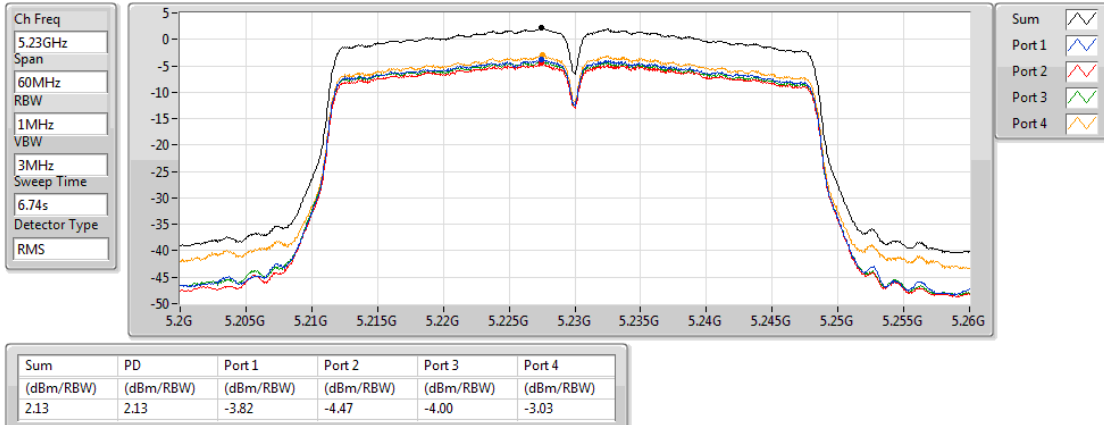


### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

5230MHz

PSD

17/04/2018

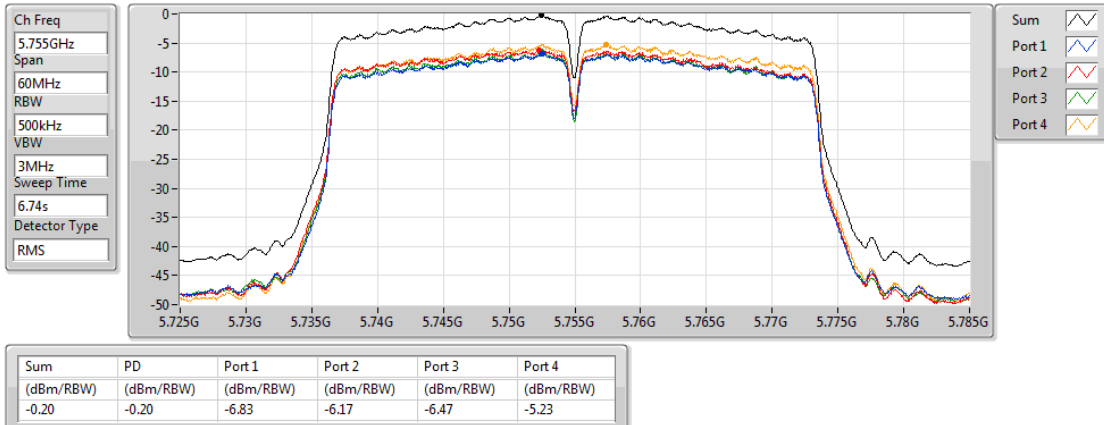


### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

5755MHz

PSD

17/04/2018

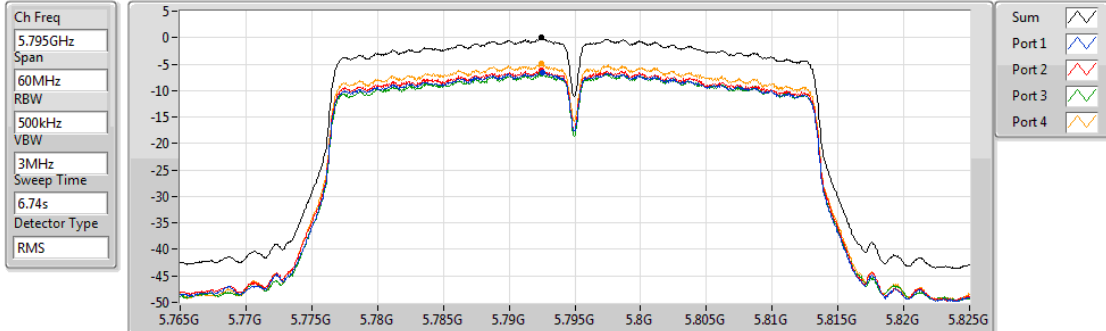


### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

### PSD

5795MHz

17/04/2018



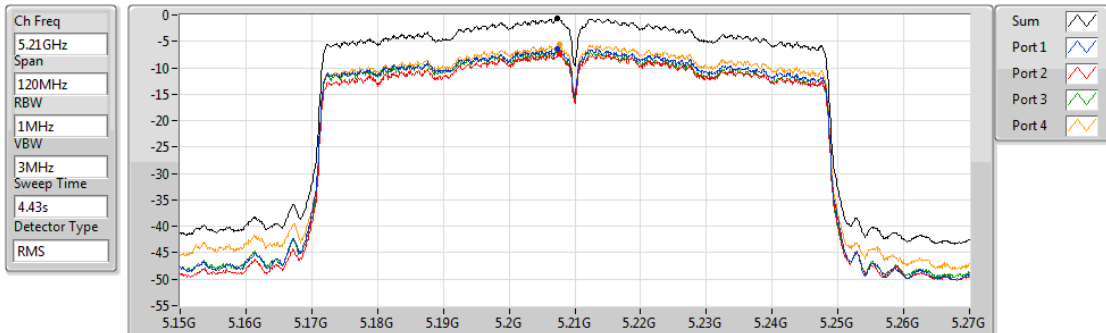
| Sum       | PD        | Port 1    | Port 2    | Port 3    | Port 4    |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 0.01      | 0.01      | -6.50     | -6.20     | -6.74     | -4.84     |

### 802.11ac VHT80\_Nss1,(MCS0)\_4TX

### PSD

5210MHz

17/04/2018



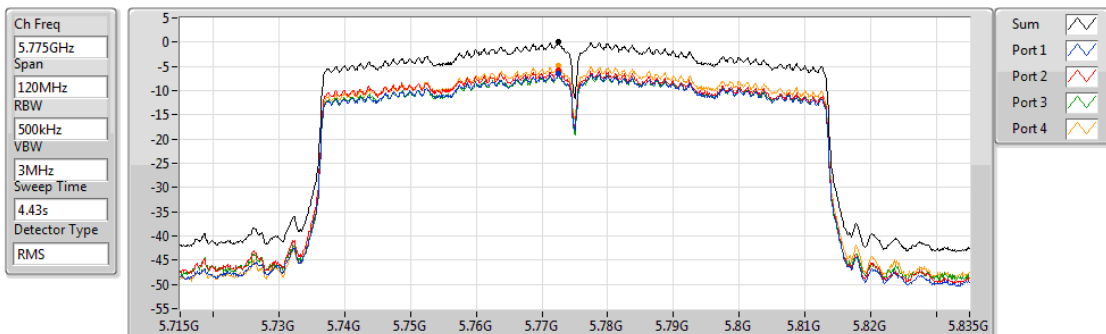
| Sum       | PD        | Port 1    | Port 2    | Port 3    | Port 4    |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -0.57     | -0.57     | -6.43     | -7.30     | -6.77     | -5.62     |

### 802.11ac VHT80\_Nss1,(MCS0)\_4TX

### PSD

5775MHz

17/04/2018



| Sum       | PD        | Port 1    | Port 2    | Port 3    | Port 4    |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 0.13      | 0.13      | -6.39     | -5.83     | -6.59     | -4.95     |

**Summary**

| Mode                              | PD<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) |
|-----------------------------------|-----------------|----------------------|
| 5.15-5.25GHz                      | -               | -                    |
| 802.11ac VHT20-BF_Nss1,(MCS0)_4TX | 2.54            | 12.06                |
| 802.11ac VHT40-BF_Nss1,(MCS0)_4TX | -0.90           | 8.62                 |
| 802.11ac VHT80-BF_Nss1,(MCS0)_4TX | -3.12           | 6.40                 |
| 5.725-5.85GHz                     | -               | -                    |
| 802.11ac VHT20-BF_Nss1,(MCS0)_4TX | 6.32            | 16.24                |
| 802.11ac VHT40-BF_Nss1,(MCS0)_4TX | 2.68            | 12.60                |
| 802.11ac VHT80-BF_Nss1,(MCS0)_4TX | 1.63            | 11.55                |

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

**Result**

| Mode                              | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | Port 3<br>(dBm/RBW) | Port 4<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) | EIRP PD<br>Limit<br>(dBm/RBW) |
|-----------------------------------|--------|-------------|---------------------|---------------------|---------------------|---------------------|-----------------|-----------------------|----------------------|-------------------------------|
| 802.11ac VHT20-BF_Nss1,(MCS0)_4TX | -      | -           | -                   | -                   | -                   | -                   | -               | -                     | -                    | -                             |
| 5180MHz_TnomVnom                  | Pass   | 9.52        | -3.68               | -3.62               | -2.69               | -2.72               | 2.54            | 13.48                 | 12.06                | 23.00                         |
| 5200MHz_TnomVnom                  | Pass   | 9.52        | -4.58               | -5.36               | -3.62               | -3.92               | 0.80            | 13.48                 | 10.32                | 23.00                         |
| 5240MHz_TnomVnom                  | Pass   | 9.52        | -4.06               | -5.24               | -3.67               | -3.41               | 1.77            | 13.48                 | 11.29                | 23.00                         |
| 5745MHz_TnomVnom                  | Pass   | 9.92        | -5.84               | -4.37               | -3.87               | -3.94               | 1.02            | 26.08                 | 10.94                | 36.00                         |
| 5785MHz_TnomVnom                  | Pass   | 9.92        | 0.30                | 0.74                | 1.41                | 1.13                | 6.32            | 26.08                 | 16.24                | 36.00                         |
| 5825MHz_TnomVnom                  | Pass   | 9.92        | -1.92               | -0.97               | -0.22               | -0.64               | 4.52            | 26.08                 | 14.44                | 36.00                         |
| 802.11ac VHT40-BF_Nss1,(MCS0)_4TX | -      | -           | -                   | -                   | -                   | -                   | -               | -                     | -                    | -                             |
| 5190MHz_TnomVnom                  | Pass   | 9.52        | -6.84               | -7.47               | -6.04               | -6.13               | -0.90           | 13.48                 | 8.62                 | 23.00                         |
| 5230MHz_TnomVnom                  | Pass   | 9.52        | -7.74               | -8.40               | -7.41               | -6.25               | -1.93           | 13.48                 | 7.59                 | 23.00                         |
| 5755MHz_TnomVnom                  | Pass   | 9.92        | -3.67               | -3.57               | -2.96               | -2.80               | 2.29            | 26.08                 | 12.21                | 36.00                         |
| 5795MHz_TnomVnom                  | Pass   | 9.92        | -2.90               | -2.71               | -2.57               | -2.52               | 2.68            | 26.08                 | 12.60                | 36.00                         |
| 802.11ac VHT80-BF_Nss1,(MCS0)_4TX | -      | -           | -                   | -                   | -                   | -                   | -               | -                     | -                    | -                             |
| 5210MHz_TnomVnom                  | Pass   | 9.52        | -9.19               | -9.24               | -8.24               | -7.82               | -3.12           | 13.48                 | 6.40                 | 23.00                         |
| 5775MHz_TnomVnom                  | Pass   | 9.92        | -4.32               | -4.25               | -3.55               | -3.50               | 1.63            | 26.08                 | 11.55                | 36.00                         |

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

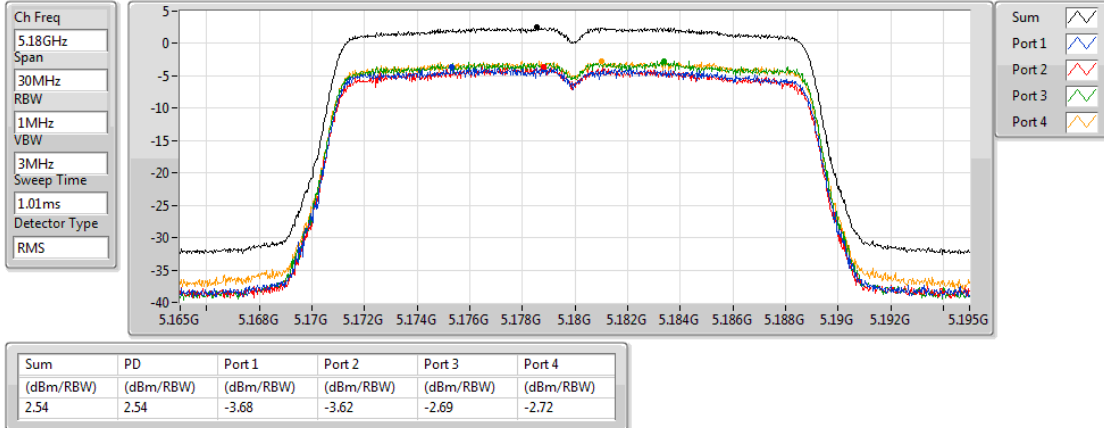
**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

### PSD

5180MHz

17/04/2018

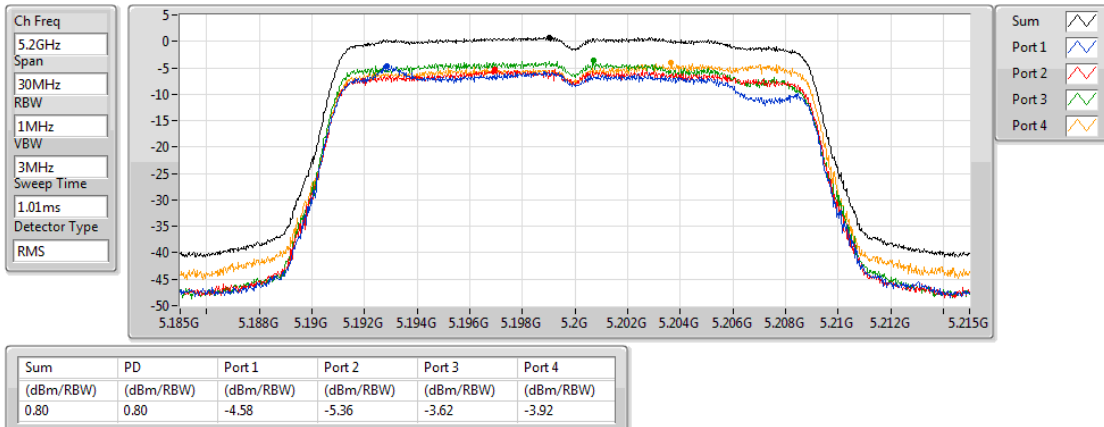


### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

### PSD

5200MHz

17/04/2018

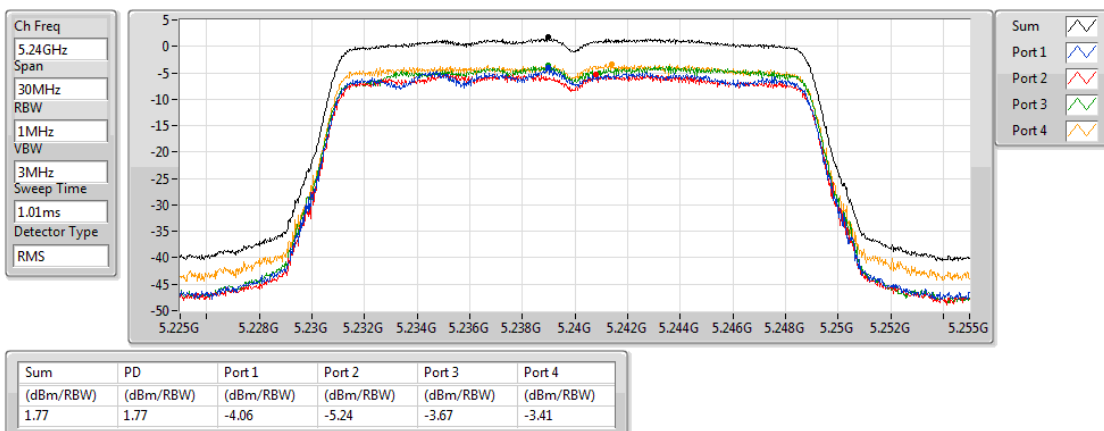


### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

### PSD

5240MHz

17/04/2018

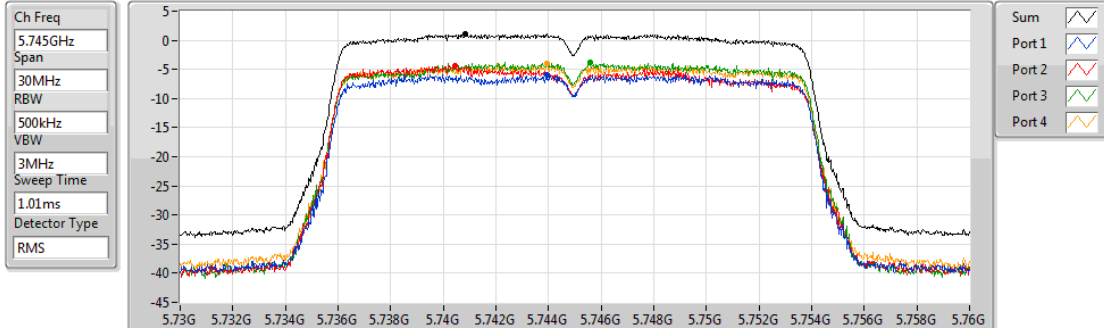


## 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

## PSD

5745MHz

17/04/2018



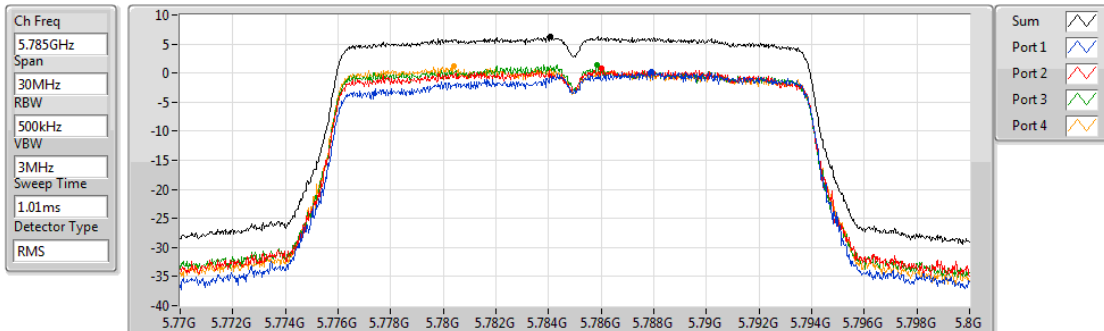
| Sum      | PD       | Port 1   | Port 2   | Port 3   | Port 4   |
|----------|----------|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 1.02     | 1.02     | -5.84    | -4.37    | -3.87    | -3.94    |

## 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

## PSD

5785MHz

17/04/2018



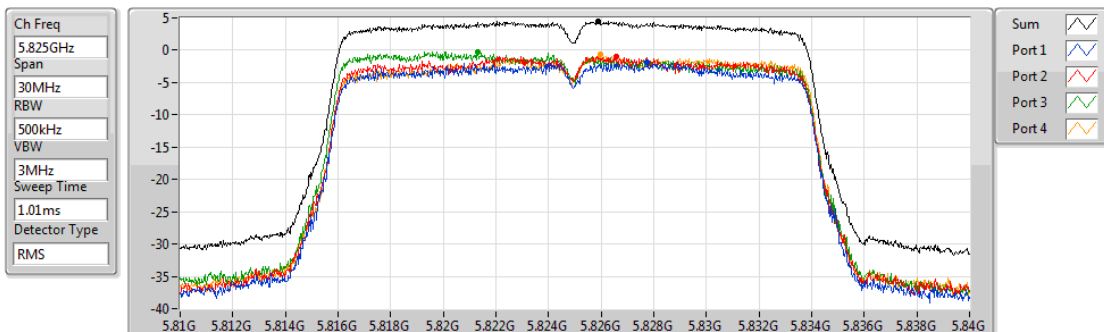
| Sum      | PD       | Port 1   | Port 2   | Port 3   | Port 4   |
|----------|----------|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 6.32     | 6.32     | 0.30     | 0.74     | 1.41     | 1.13     |

## 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

## PSD

5825MHz

17/04/2018



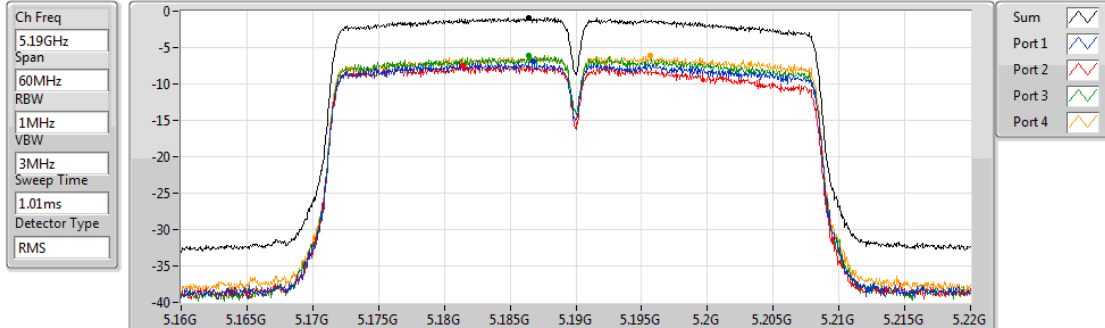
| Sum      | PD       | Port 1   | Port 2   | Port 3   | Port 4   |
|----------|----------|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 4.52     | 4.52     | -1.92    | -0.97    | -0.22    | -0.64    |

## 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

## PSD

5190MHz

17/04/2018



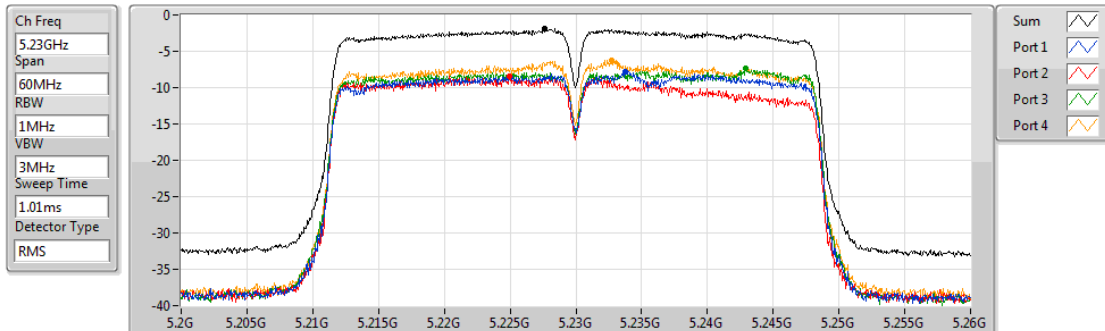
| Sum      | PD       | Port 1   | Port 2   | Port 3   | Port 4   |
|----------|----------|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -0.90    | -0.90    | -6.84    | -7.47    | -6.04    | -6.13    |

## 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

## PSD

5230MHz

17/04/2018



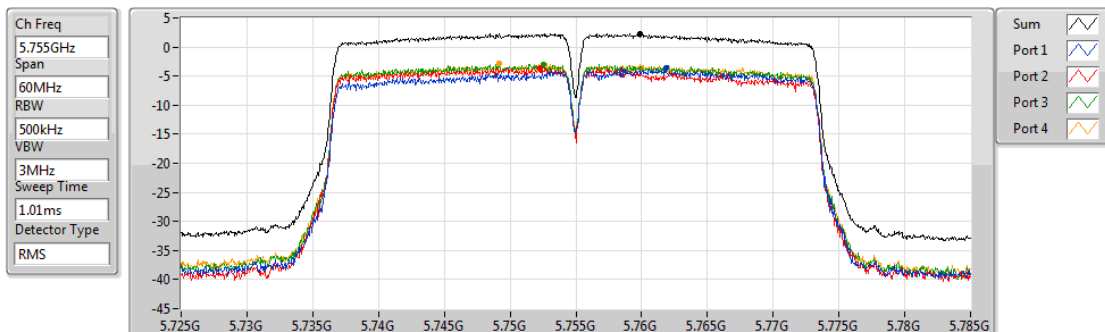
| Sum      | PD       | Port 1   | Port 2   | Port 3   | Port 4   |
|----------|----------|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -1.93    | -1.93    | -7.74    | -8.40    | -7.41    | -6.25    |

## 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

## PSD

5755MHz

17/04/2018



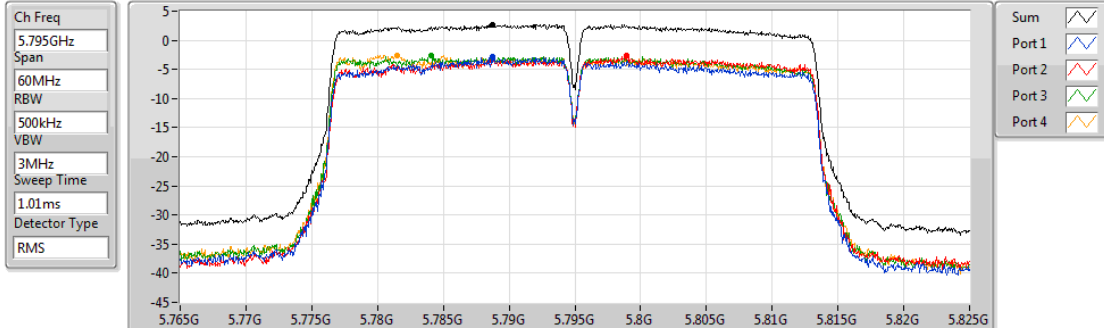
| Sum      | PD       | Port 1   | Port 2   | Port 3   | Port 4   |
|----------|----------|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 2.29     | 2.29     | -3.67    | -3.57    | -2.96    | -2.80    |

## 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

## PSD

5795MHz

17/04/2018



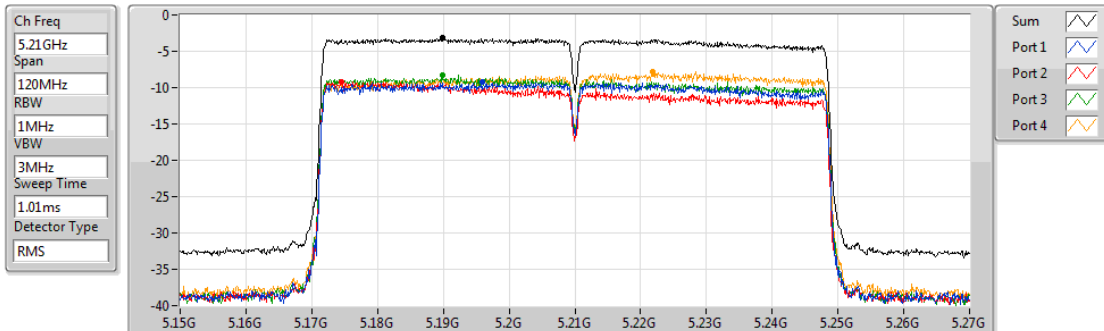
| Sum      | PD       | Port 1   | Port 2   | Port 3   | Port 4   |
|----------|----------|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 2.68     | 2.68     | -2.90    | -2.71    | -2.57    | -2.52    |

## 802.11ac VHT80-BF\_Nss1,(MCS0)\_4TX

## PSD

5210MHz

17/04/2018



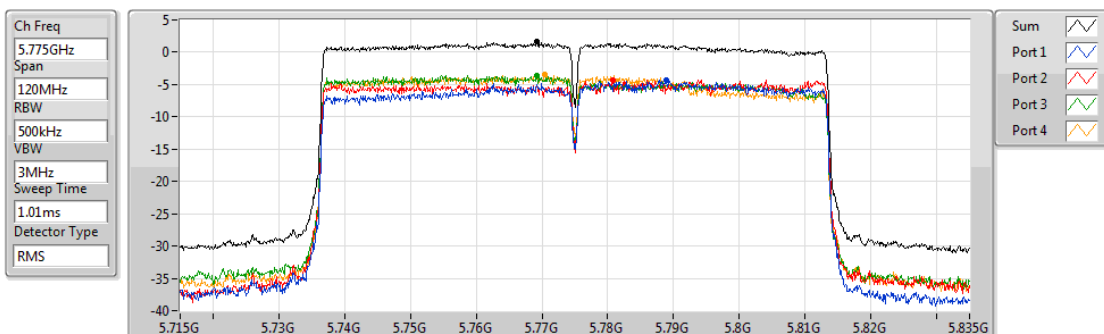
| Sum      | PD       | Port 1   | Port 2   | Port 3   | Port 4   |
|----------|----------|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -3.12    | -3.12    | -9.19    | -9.24    | -8.24    | -7.82    |

## 802.11ac VHT80-BF\_Nss1,(MCS0)\_4TX

## PSD

5775MHz

17/04/2018



| Sum      | PD       | Port 1   | Port 2   | Port 3   | Port 4   |
|----------|----------|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 1.63     | 1.63     | -4.32    | -4.25    | -3.55    | -3.50    |

**Summary**

| Mode                           | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| 5.725-5.85GHz                  | -      | -    | -            | -                 | -                 | -              | -              | -           | -         | -              | -             | -        |
| 802.11ac VHT80_Nss1,(MCS0)_4TX | Pass   | PK   | 30M          | 32.97             | 40.00             | -7.03          | -13.39         | 3           | Vertical  | 360            | 1.00          | -        |

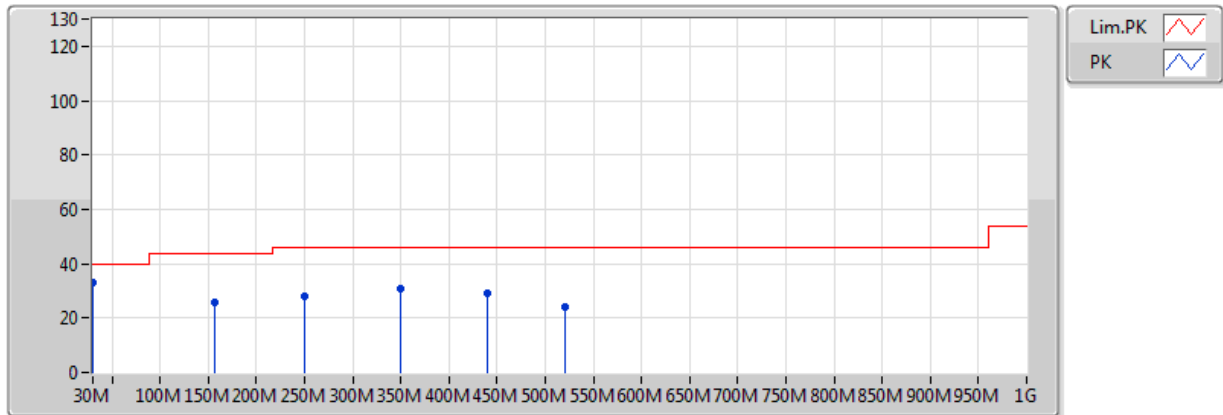
**Result**

| Mode                           | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| 802.11ac VHT80_Nss1,(MCS0)_4TX | -      | -    | -            | -                 | -                 | -              | -              | -           | -          | -              | -             | -        |
| 5775MHz                        | Pass   | PK   | 156.1M       | 30.31             | 43.50             | -13.19         | -19.79         | 3           | Horizontal | 0              | 1.00          | -        |
| 5775MHz                        | Pass   | PK   | 249.22M      | 33.29             | 46.00             | -12.71         | -17.25         | 3           | Horizontal | 0              | 1.00          | -        |
| 5775MHz                        | Pass   | PK   | 284.14M      | 33.50             | 46.00             | -12.50         | -16.98         | 3           | Horizontal | 0              | 1.00          | -        |
| 5775MHz                        | Pass   | PK   | 319.06M      | 32.02             | 46.00             | -13.98         | -16.38         | 3           | Horizontal | 0              | 1.00          | -        |
| 5775MHz                        | Pass   | PK   | 513.06M      | 29.91             | 46.00             | -16.09         | -12.12         | 3           | Horizontal | 0              | 1.00          | -        |
| 5775MHz                        | Pass   | PK   | 625.58M      | 34.75             | 46.00             | -11.25         | -10.16         | 3           | Horizontal | 0              | 1.00          | -        |
| 5775MHz                        | Pass   | PK   | 30M          | 32.97             | 40.00             | -7.03          | -13.39         | 3           | Vertical   | 360            | 1.00          | -        |
| 5775MHz                        | Pass   | PK   | 156.1M       | 25.72             | 43.50             | -17.78         | -19.79         | 3           | Vertical   | 360            | 1.00          | -        |
| 5775MHz                        | Pass   | PK   | 249.22M      | 28.14             | 46.00             | -17.86         | -17.25         | 3           | Vertical   | 360            | 1.00          | -        |
| 5775MHz                        | Pass   | PK   | 350.1M       | 30.64             | 46.00             | -15.36         | -15.45         | 3           | Vertical   | 360            | 1.00          | -        |
| 5775MHz                        | Pass   | PK   | 439.34M      | 29.08             | 46.00             | -16.92         | -13.03         | 3           | Vertical   | 360            | 1.00          | -        |
| 5775MHz                        | Pass   | PK   | 520.82M      | 24.23             | 46.00             | -21.77         | -12.12         | 3           | Vertical   | 360            | 1.00          | -        |

## 802.11ac VHT80\_Nss1,(MCS0)\_4TX

## 5775MHz\_Adapter

17/03/2018

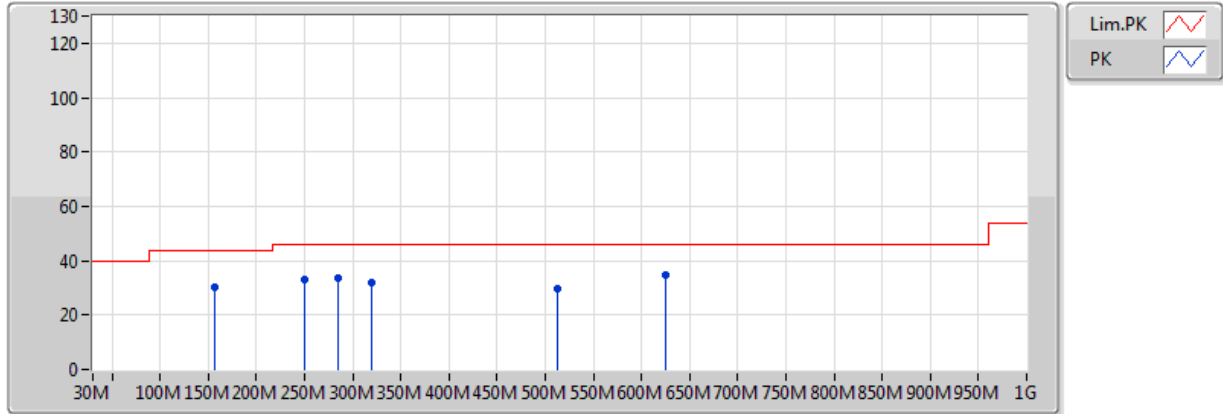


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| PK   | 30M          | 32.97             | 40.00             | -7.03          | -13.39         | 3           | Vertical  | 360            | 1.00          | -        | 46.36         | 23.63      | 0.32       | 37.34      |
| PK   | 156.1M       | 25.72             | 43.50             | -17.78         | -19.79         | 3           | Vertical  | 360            | 1.00          | -        | 45.51         | 15.95      | 0.82       | 36.57      |
| PK   | 249.22M      | 28.14             | 46.00             | -17.86         | -17.25         | 3           | Vertical  | 360            | 1.00          | -        | 45.39         | 17.90      | 1.26       | 36.41      |
| PK   | 350.1M       | 30.64             | 46.00             | -15.36         | -15.45         | 3           | Vertical  | 360            | 1.00          | -        | 46.09         | 19.59      | 1.48       | 36.52      |
| PK   | 439.34M      | 29.08             | 46.00             | -16.92         | -13.03         | 3           | Vertical  | 360            | 1.00          | -        | 42.11         | 22.16      | 1.54       | 36.73      |
| PK   | 520.82M      | 24.23             | 46.00             | -21.77         | -12.12         | 3           | Vertical  | 360            | 1.00          | -        | 36.35         | 23.25      | 1.61       | 36.97      |

## 802.11ac VHT80\_Nss1,(MCS0)\_4TX

## 5775MHz\_Adapter

17/03/2018



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| PK   | 156.1M       | 30.31             | 43.50             | -13.19         | -19.79         | 3           | Horizontal | 0              | 1.00          | -        | 50.10         | 15.95      | 0.82       | 36.57      |
| PK   | 249.22M      | 33.29             | 46.00             | -12.71         | -17.25         | 3           | Horizontal | 0              | 1.00          | -        | 50.54         | 17.90      | 1.26       | 36.41      |
| PK   | 284.14M      | 33.50             | 46.00             | -12.50         | -16.98         | 3           | Horizontal | 0              | 1.00          | -        | 50.48         | 18.09      | 1.36       | 36.43      |
| PK   | 319.06M      | 32.02             | 46.00             | -13.98         | -16.38         | 3           | Horizontal | 0              | 1.00          | -        | 48.40         | 18.63      | 1.46       | 36.47      |
| PK   | 513.06M      | 29.91             | 46.00             | -16.09         | -12.12         | 3           | Horizontal | 0              | 1.00          | -        | 42.03         | 23.23      | 1.60       | 36.96      |
| PK   | 625.58M      | 34.75             | 46.00             | -11.25         | -10.16         | 3           | Horizontal | 0              | 1.00          | -        | 44.91         | 25.38      | 1.69       | 37.23      |

**Summary**

| Mode                     | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| 5.725-5.85GHz            | -      | -    | -            | -                 | -                 | -              | -              | -           | -         | -              | -             | -        |
| VHT80-BF_Nss1,(MCS0)_4TX | Pass   | PK   | 55.22M       | 36.67             | 40.00             | -3.33          | -25.16         | 3           | Vertical  | 0              | 1.00          | -        |

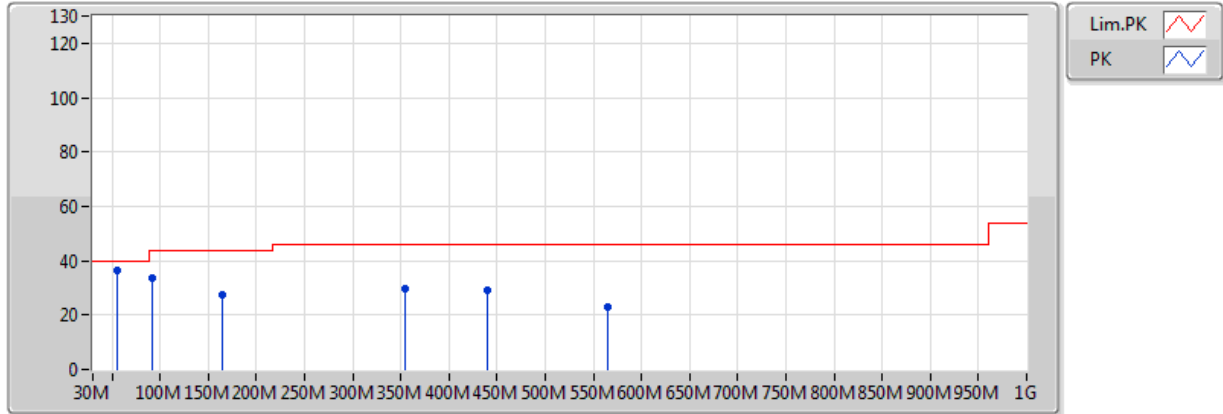
**Result**

| Mode                     | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| VHT80-BF_Nss1,(MCS0)_4TX | -      | -    | -            | -                 | -                 | -              | -              | -           | -          | -              | -             | -        |
| 5775MHz                  | Pass   | PK   | 59.1M        | 32.17             | 40.00             | -7.83          | -25.56         | 3           | Horizontal | 360            | 1.00          | -        |
| 5775MHz                  | Pass   | PK   | 92.08M       | 33.01             | 43.50             | -10.49         | -22.17         | 3           | Horizontal | 360            | 1.00          | -        |
| 5775MHz                  | Pass   | PK   | 165.8M       | 31.64             | 43.50             | -11.86         | -20.41         | 3           | Horizontal | 360            | 1.00          | -        |
| 5775MHz                  | Pass   | PK   | 313.24M      | 32.04             | 46.00             | -13.96         | -16.45         | 3           | Horizontal | 360            | 1.00          | -        |
| 5775MHz                  | Pass   | PK   | 439.34M      | 29.87             | 46.00             | -16.13         | -13.03         | 3           | Horizontal | 360            | 1.00          | -        |
| 5775MHz                  | Pass   | PK   | 569.32M      | 23.22             | 46.00             | -22.78         | -10.60         | 3           | Horizontal | 360            | 1.00          | -        |
| 5775MHz                  | Pass   | PK   | 55.22M       | 36.67             | 40.00             | -3.33          | -25.16         | 3           | Vertical   | 0              | 1.00          | -        |
| 5775MHz                  | Pass   | PK   | 92.08M       | 33.82             | 43.50             | -9.68          | -22.17         | 3           | Vertical   | 0              | 1.00          | -        |
| 5775MHz                  | Pass   | PK   | 163.86M      | 27.35             | 43.50             | -16.15         | -20.27         | 3           | Vertical   | 0              | 1.00          | -        |
| 5775MHz                  | Pass   | PK   | 353.98M      | 29.80             | 46.00             | -16.20         | -15.35         | 3           | Vertical   | 0              | 1.00          | -        |
| 5775MHz                  | Pass   | PK   | 439.34M      | 29.29             | 46.00             | -16.71         | -13.03         | 3           | Vertical   | 0              | 1.00          | -        |
| 5775MHz                  | Pass   | PK   | 565.44M      | 22.72             | 46.00             | -23.28         | -10.46         | 3           | Vertical   | 0              | 1.00          | -        |

# VHT80-BF\_Nss1,(MCS0)\_4TX

## 5775MHz\_Adapter

17/03/2018

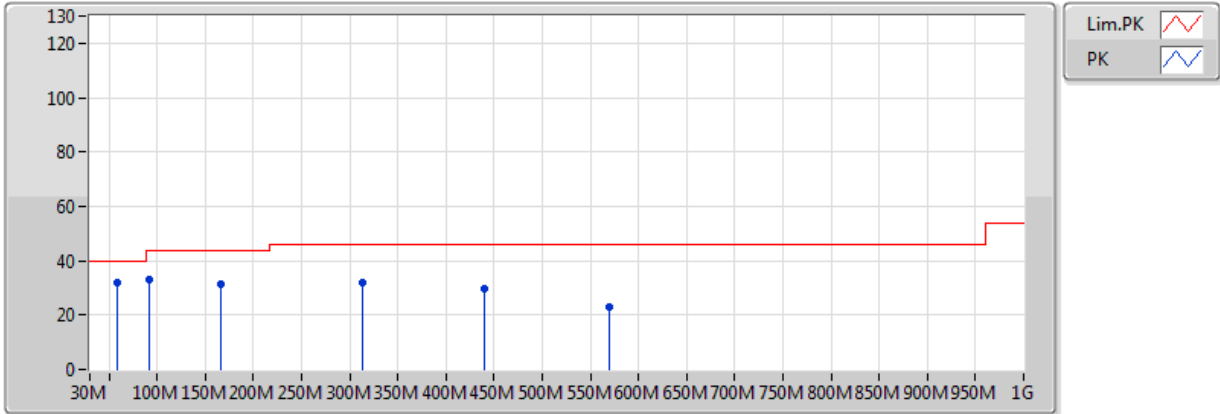


| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments | Raw (dBuV) | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|------------|---------|---------|---------|
| PK   | 55.22M    | 36.67          | 40.00          | -3.33       | -25.16      | 3        | Vertical  | 0           | 1.00       | -        | 61.83      | 11.52   | 0.43    | 37.12   |
| PK   | 92.08M    | 33.82          | 43.50          | -9.68       | -22.17      | 3        | Vertical  | 0           | 1.00       | -        | 55.99      | 14.15   | 0.54    | 36.86   |
| PK   | 163.86M   | 27.35          | 43.50          | -16.15      | -20.27      | 3        | Vertical  | 0           | 1.00       | -        | 47.62      | 15.36   | 0.90    | 36.53   |
| PK   | 353.98M   | 29.80          | 46.00          | -16.20      | -15.35      | 3        | Vertical  | 0           | 1.00       | -        | 45.15      | 19.69   | 1.48    | 36.53   |
| PK   | 439.34M   | 29.29          | 46.00          | -16.71      | -13.03      | 3        | Vertical  | 0           | 1.00       | -        | 42.32      | 22.16   | 1.54    | 36.73   |
| PK   | 565.44M   | 22.72          | 46.00          | -23.28      | -10.46      | 3        | Vertical  | 0           | 1.00       | -        | 33.18      | 25.02   | 1.63    | 37.10   |

# VHT80-BF\_Nss1,(MCS0)\_4TX

## 5775MHz\_Adapter

17/03/2018



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| PK   | 59.1M        | 32.17             | 40.00             | -7.83          | -25.56         | 3           | Horizontal | 360            | 1.00          | -        | 57.73         | 11.08      | 0.45       | 37.09      |
| PK   | 92.08M       | 33.01             | 43.50             | -10.49         | -22.17         | 3           | Horizontal | 360            | 1.00          | -        | 55.18         | 14.15      | 0.54       | 36.86      |
| PK   | 165.8M       | 31.64             | 43.50             | -11.86         | -20.41         | 3           | Horizontal | 360            | 1.00          | -        | 52.05         | 15.18      | 0.93       | 36.53      |
| PK   | 313.24M      | 32.04             | 46.00             | -13.96         | -16.45         | 3           | Horizontal | 360            | 1.00          | -        | 48.49         | 18.55      | 1.46       | 36.46      |
| PK   | 439.34M      | 29.87             | 46.00             | -16.13         | -13.03         | 3           | Horizontal | 360            | 1.00          | -        | 42.90         | 22.16      | 1.54       | 36.73      |
| PK   | 569.32M      | 23.22             | 46.00             | -22.78         | -10.60         | 3           | Horizontal | 360            | 1.00          | -        | 33.82         | 24.88      | 1.63       | 37.11      |

**Summary**

| Mode                           | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| 5.15-5.25GHz                   | -      | -    | -            | -                 | -                 | -              | -              | -           | -         | -              | -             | -        |
| 802.11a_Nss1,(6Mbps)_4TX       | Pass   | PK   | 10.40162G    | 67.94             | 68.20             | -0.26          | 11.69          | 3           | Vertical  | 324            | 2.40          | -        |
| 802.11ac VHT20_Nss1,(MCS0)_4TX | Pass   | PK   | 10.36432G    | 67.92             | 68.20             | -0.28          | 11.61          | 3           | Vertical  | 238            | 1.03          | -        |
| 802.11ac VHT40_Nss1,(MCS0)_4TX | Pass   | PK   | 10.4576G     | 68.04             | 68.20             | -0.16          | 11.81          | 3           | Vertical  | 339            | 2.28          | -        |
| 802.11ac VHT80_Nss1,(MCS0)_4TX | Pass   | AV   | 5.146G       | 53.57             | 54.00             | -0.43          | 1.83           | 3           | Vertical  | 348            | 1.21          | -        |
| 5.725-5.85GHz                  | -      | -    | -            | -                 | -                 | -              | -              | -           | -         | -              | -             | -        |
| 802.11a_Nss1,(6Mbps)_4TX       | Pass   | AV   | 11.57174G    | 53.40             | 54.00             | -0.60          | 12.36          | 3           | Vertical  | 347            | 1.03          | -        |
| 802.11ac VHT20_Nss1,(MCS0)_4TX | Pass   | AV   | 11.64838G    | 53.82             | 54.00             | -0.18          | 12.28          | 3           | Vertical  | 334            | 1.09          | -        |
| 802.11ac VHT40_Nss1,(MCS0)_4TX | Pass   | AV   | 11.5112G     | 53.69             | 54.00             | -0.31          | 12.43          | 3           | Vertical  | 333            | 1.00          | -        |
| 802.11ac VHT80_Nss1,(MCS0)_4TX | Pass   | AV   | 11.5686G     | 53.41             | 54.00             | -0.59          | 12.37          | 3           | Vertical  | 346            | 1.00          | -        |

**Result**

| Mode                     | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| 802.11a_Nss1,(6Mbps)_4TX | -      | -    | -            | -                 | -                 | -              | -              | -           | -          | -              | -             | -        |
| 5180MHz                  | Pass   | AV   | 5.149995G    | 44.89             | 54.00             | -9.11          | 1.83           | 3           | Horizontal | 327            | 1.05          | -        |
| 5180MHz                  | Pass   | AV   | 5.1788G      | 95.27             | Inf               | -Inf           | 1.89           | 3           | Horizontal | 327            | 1.05          | -        |
| 5180MHz                  | Pass   | PK   | 5.1484G      | 55.69             | 74.00             | -18.31         | 1.83           | 3           | Horizontal | 327            | 1.05          | -        |
| 5180MHz                  | Pass   | PK   | 5.1782G      | 102.45            | Inf               | -Inf           | 1.89           | 3           | Horizontal | 327            | 1.05          | -        |
| 5180MHz                  | Pass   | AV   | 5.1312G      | 47.42             | 54.00             | -6.58          | 1.80           | 3           | Vertical   | 237            | 1.02          | -        |
| 5180MHz                  | Pass   | AV   | 5.1834G      | 100.38            | Inf               | -Inf           | 1.89           | 3           | Vertical   | 237            | 1.02          | -        |
| 5180MHz                  | Pass   | PK   | 5.14G        | 56.98             | 74.00             | -17.02         | 1.82           | 3           | Vertical   | 237            | 1.02          | -        |
| 5180MHz                  | Pass   | PK   | 5.183G       | 107.20            | Inf               | -Inf           | 1.89           | 3           | Vertical   | 237            | 1.02          | -        |
| 5180MHz                  | Pass   | PK   | 10.36174G    | 59.90             | 68.20             | -8.30          | 11.60          | 3           | Horizontal | 187            | 1.18          | -        |
| 5180MHz                  | Pass   | PK   | 10.3618G     | 67.92             | 68.20             | -0.28          | 11.60          | 3           | Vertical   | 323            | 2.21          | -        |
| 5200MHz                  | Pass   | AV   | 5.1124G      | 44.95             | 54.00             | -9.05          | 1.78           | 3           | Horizontal | 329            | 1.00          | -        |
| 5200MHz                  | Pass   | AV   | 5.1992G      | 94.53             | Inf               | -Inf           | 1.92           | 3           | Horizontal | 329            | 1.00          | -        |
| 5200MHz                  | Pass   | PK   | 5.126G       | 54.91             | 74.00             | -19.09         | 1.80           | 3           | Horizontal | 329            | 1.00          | -        |
| 5200MHz                  | Pass   | PK   | 5.1984G      | 101.33            | Inf               | -Inf           | 1.92           | 3           | Horizontal | 329            | 1.00          | -        |
| 5200MHz                  | Pass   | AV   | 5.1108G      | 48.53             | 54.00             | -5.47          | 1.78           | 3           | Vertical   | 8              | 2.58          | -        |
| 5200MHz                  | Pass   | AV   | 5.2008G      | 100.84            | Inf               | -Inf           | 1.92           | 3           | Vertical   | 8              | 2.58          | -        |
| 5200MHz                  | Pass   | PK   | 5.112G       | 58.35             | 74.00             | -15.65         | 1.78           | 3           | Vertical   | 8              | 2.58          | -        |
| 5200MHz                  | Pass   | PK   | 5.1992G      | 107.97            | Inf               | -Inf           | 1.92           | 3           | Vertical   | 8              | 2.58          | -        |
| 5200MHz                  | Pass   | PK   | 10.3964G     | 58.50             | 68.20             | -9.70          | 11.68          | 3           | Horizontal | 185            | 2.22          | -        |
| 5200MHz                  | Pass   | PK   | 10.40162G    | 67.94             | 68.20             | -0.26          | 11.69          | 3           | Vertical   | 324            | 2.40          | -        |
| 5240MHz                  | Pass   | AV   | 5.1266G      | 45.00             | 54.00             | -9.00          | 1.80           | 3           | Horizontal | 329            | 1.00          | -        |
| 5240MHz                  | Pass   | AV   | 5.2388G      | 95.21             | Inf               | -Inf           | 1.98           | 3           | Horizontal | 329            | 1.00          | -        |
| 5240MHz                  | Pass   | AV   | 5.351G       | 44.51             | 54.00             | -9.49          | 2.17           | 3           | Horizontal | 329            | 1.00          | -        |
| 5240MHz                  | Pass   | PK   | 5.1398G      | 54.98             | 74.00             | -19.02         | 1.82           | 3           | Horizontal | 329            | 1.00          | -        |
| 5240MHz                  | Pass   | PK   | 5.2394G      | 102.63            | Inf               | -Inf           | 1.98           | 3           | Horizontal | 329            | 1.00          | -        |
| 5240MHz                  | Pass   | PK   | 5.3774G      | 53.78             | 74.00             | -20.22         | 2.20           | 3           | Horizontal | 329            | 1.00          | -        |
| 5240MHz                  | Pass   | AV   | 5.1434G      | 46.86             | 54.00             | -7.14          | 1.82           | 3           | Vertical   | 326            | 1.29          | -        |
| 5240MHz                  | Pass   | AV   | 5.2424G      | 101.00            | Inf               | -Inf           | 1.99           | 3           | Vertical   | 326            | 1.29          | -        |
| 5240MHz                  | Pass   | AV   | 5.3594G      | 45.86             | 54.00             | -8.14          | 2.18           | 3           | Vertical   | 326            | 1.29          | -        |
| 5240MHz                  | Pass   | PK   | 5.147G       | 56.30             | 74.00             | -17.70         | 1.83           | 3           | Vertical   | 326            | 1.29          | -        |
| 5240MHz                  | Pass   | PK   | 5.2424G      | 108.16            | Inf               | -Inf           | 1.99           | 3           | Vertical   | 326            | 1.29          | -        |
| 5240MHz                  | Pass   | PK   | 5.3564G      | 56.06             | 74.00             | -17.94         | 2.18           | 3           | Vertical   | 326            | 1.29          | -        |
| 5240MHz                  | Pass   | PK   | 10.48594G    | 60.00             | 68.20             | -8.20          | 11.87          | 3           | Horizontal | 186            | 1.06          | -        |
| 5240MHz                  | Pass   | PK   | 10.47652G    | 67.39             | 68.20             | -0.81          | 11.85          | 3           | Vertical   | 346            | 1.01          | -        |
| 5745MHz                  | Pass   | AV   | 5.7426G      | 95.97             | Inf               | -Inf           | 2.85           | 3           | Horizontal | 9              | 1.05          | -        |
| 5745MHz                  | Pass   | PK   | 5.5902G      | 53.98             | 68.20             | -14.22         | 2.56           | 3           | Horizontal | 9              | 1.05          | -        |
| 5745MHz                  | Pass   | PK   | 5.7414G      | 101.49            | Inf               | -Inf           | 2.84           | 3           | Horizontal | 9              | 1.05          | -        |
| 5745MHz                  | Pass   | PK   | 5.955G       | 54.44             | 68.20             | -13.76         | 3.24           | 3           | Horizontal | 9              | 1.05          | -        |
| 5745MHz                  | Pass   | AV   | 5.7462G      | 106.93            | Inf               | -Inf           | 2.85           | 3           | Vertical   | 322            | 1.00          | -        |
| 5745MHz                  | Pass   | PK   | 5.631G       | 56.34             | 68.20             | -11.86         | 2.64           | 3           | Vertical   | 322            | 1.00          | -        |
| 5745MHz                  | Pass   | PK   | 5.7474G      | 112.60            | Inf               | -Inf           | 2.86           | 3           | Vertical   | 322            | 1.00          | -        |
| 5745MHz                  | Pass   | PK   | 5.9526G      | 54.94             | 68.20             | -13.26         | 3.23           | 3           | Vertical   | 322            | 1.00          | -        |
| 5745MHz                  | Pass   | AV   | 11.49576G    | 45.07             | 54.00             | -8.93          | 12.45          | 3           | Horizontal | 197            | 1.01          | -        |
| 5745MHz                  | Pass   | PK   | 11.49594G    | 55.52             | 74.00             | -18.48         | 12.45          | 3           | Horizontal | 197            | 1.01          | -        |
| 5745MHz                  | Pass   | AV   | 11.49198G    | 53.31             | 54.00             | -0.69          | 12.45          | 3           | Vertical   | 347            | 1.11          | -        |
| 5745MHz                  | Pass   | PK   | 11.49168G    | 63.95             | 74.00             | -10.05         | 12.45          | 3           | Vertical   | 347            | 1.11          | -        |
| 5785MHz                  | Pass   | AV   | 5.7838G      | 96.37             | Inf               | -Inf           | 2.92           | 3           | Horizontal | 40             | 1.02          | -        |

| Mode                           | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| 5785MHz                        | Pass   | PK   | 5.5222G      | 54.05             | 68.20             | -14.15         | 2.45           | 3           | Horizontal | 40             | 1.02          | -        |
| 5785MHz                        | Pass   | PK   | 5.7838G      | 102.57            | Inf               | -Inf           | 2.92           | 3           | Horizontal | 40             | 1.02          | -        |
| 5785MHz                        | Pass   | PK   | 5.959G       | 54.53             | 68.20             | -13.67         | 3.24           | 3           | Horizontal | 40             | 1.02          | -        |
| 5785MHz                        | Pass   | AV   | 5.7862G      | 106.95            | Inf               | -Inf           | 2.93           | 3           | Vertical   | 319            | 1.02          | -        |
| 5785MHz                        | Pass   | PK   | 5.6314G      | 55.66             | 68.20             | -12.54         | 2.64           | 3           | Vertical   | 319            | 1.02          | -        |
| 5785MHz                        | Pass   | PK   | 5.7862G      | 112.81            | Inf               | -Inf           | 2.93           | 3           | Vertical   | 319            | 1.02          | -        |
| 5785MHz                        | Pass   | PK   | 5.9446G      | 55.85             | 68.20             | -12.35         | 3.22           | 3           | Vertical   | 319            | 1.02          | -        |
| 5785MHz                        | Pass   | AV   | 11.57186G    | 44.62             | 54.00             | -9.38          | 12.36          | 3           | Horizontal | 358            | 2.19          | -        |
| 5785MHz                        | Pass   | PK   | 11.5733G     | 53.67             | 74.00             | -20.33         | 12.36          | 3           | Horizontal | 358            | 2.19          | -        |
| 5785MHz                        | Pass   | AV   | 11.57174G    | 53.40             | 54.00             | -0.60          | 12.36          | 3           | Vertical   | 347            | 1.03          | -        |
| 5785MHz                        | Pass   | PK   | 11.5724G     | 64.50             | 74.00             | -9.50          | 12.36          | 3           | Vertical   | 347            | 1.03          | -        |
| 5825MHz                        | Pass   | AV   | 5.8238G      | 96.15             | Inf               | -Inf           | 3.00           | 3           | Horizontal | 37             | 2.34          | -        |
| 5825MHz                        | Pass   | PK   | 5.6378G      | 54.37             | 68.20             | -13.83         | 2.66           | 3           | Horizontal | 37             | 2.34          | -        |
| 5825MHz                        | Pass   | PK   | 5.8226G      | 102.13            | Inf               | -Inf           | 2.99           | 3           | Horizontal | 37             | 2.34          | -        |
| 5825MHz                        | Pass   | PK   | 5.9366G      | 55.09             | 68.20             | -13.11         | 3.21           | 3           | Horizontal | 37             | 2.34          | -        |
| 5825MHz                        | Pass   | AV   | 5.8274G      | 107.16            | Inf               | -Inf           | 3.00           | 3           | Vertical   | 322            | 1.07          | -        |
| 5825MHz                        | Pass   | PK   | 5.651G       | 56.24             | 68.94             | -12.70         | 2.68           | 3           | Vertical   | 322            | 1.07          | -        |
| 5825MHz                        | Pass   | PK   | 5.8274G      | 113.19            | Inf               | -Inf           | 3.00           | 3           | Vertical   | 322            | 1.07          | -        |
| 5825MHz                        | Pass   | PK   | 5.9438G      | 57.81             | 68.20             | -10.39         | 3.22           | 3           | Vertical   | 322            | 1.07          | -        |
| 5825MHz                        | Pass   | AV   | 11.65188G    | 46.37             | 54.00             | -7.63          | 12.27          | 3           | Horizontal | 16             | 1.03          | -        |
| 5825MHz                        | Pass   | PK   | 11.65208G    | 56.89             | 74.00             | -17.11         | 12.27          | 3           | Horizontal | 16             | 1.03          | -        |
| 5825MHz                        | Pass   | AV   | 11.65116G    | 53.21             | 54.00             | -0.79          | 12.27          | 3           | Vertical   | 347            | 1.01          | -        |
| 5825MHz                        | Pass   | PK   | 11.6518G     | 63.48             | 74.00             | -10.52         | 12.27          | 3           | Vertical   | 347            | 1.01          | -        |
| 802.11ac VHT20_Nss1,(MCS0)_4TX | -      | -    | -            | -                 | -                 | -              | -              | -           | -          | -              | -             | -        |
| 5180MHz                        | Pass   | AV   | 5.1456G      | 45.89             | 54.00             | -8.11          | 1.83           | 3           | Horizontal | 313            | 1.05          | -        |
| 5180MHz                        | Pass   | AV   | 5.179G       | 94.66             | Inf               | -Inf           | 1.89           | 3           | Horizontal | 313            | 1.05          | -        |
| 5180MHz                        | Pass   | PK   | 5.1376G      | 54.38             | 74.00             | -19.62         | 1.82           | 3           | Horizontal | 313            | 1.05          | -        |
| 5180MHz                        | Pass   | PK   | 5.1768G      | 102.47            | Inf               | -Inf           | 1.88           | 3           | Horizontal | 313            | 1.05          | -        |
| 5180MHz                        | Pass   | AV   | 5.1332G      | 49.01             | 54.00             | -4.99          | 1.81           | 3           | Vertical   | 356            | 1.10          | -        |
| 5180MHz                        | Pass   | AV   | 5.1774G      | 100.46            | Inf               | -Inf           | 1.88           | 3           | Vertical   | 356            | 1.10          | -        |
| 5180MHz                        | Pass   | PK   | 5.1342G      | 57.67             | 74.00             | -16.33         | 1.81           | 3           | Vertical   | 356            | 1.10          | -        |
| 5180MHz                        | Pass   | PK   | 5.1788G      | 108.35            | Inf               | -Inf           | 1.89           | 3           | Vertical   | 356            | 1.10          | -        |
| 5180MHz                        | Pass   | PK   | 10.36228G    | 58.77             | 68.20             | -9.43          | 11.60          | 3           | Horizontal | 181            | 1.05          | -        |
| 5180MHz                        | Pass   | PK   | 10.36432G    | 67.92             | 68.20             | -0.28          | 11.61          | 3           | Vertical   | 238            | 1.03          | -        |
| 5200MHz                        | Pass   | AV   | 5.14G        | 45.47             | 54.00             | -8.53          | 1.82           | 3           | Horizontal | 325            | 1.04          | -        |
| 5200MHz                        | Pass   | AV   | 5.1992G      | 92.36             | Inf               | -Inf           | 1.92           | 3           | Horizontal | 325            | 1.04          | -        |
| 5200MHz                        | Pass   | PK   | 5.1324G      | 55.36             | 74.00             | -18.64         | 1.81           | 3           | Horizontal | 325            | 1.04          | -        |
| 5200MHz                        | Pass   | PK   | 5.1988G      | 101.45            | Inf               | -Inf           | 1.92           | 3           | Horizontal | 325            | 1.04          | -        |
| 5200MHz                        | Pass   | AV   | 5.1252G      | 50.08             | 54.00             | -3.92          | 1.80           | 3           | Vertical   | 360            | 1.22          | -        |
| 5200MHz                        | Pass   | AV   | 5.2012G      | 100.67            | Inf               | -Inf           | 1.92           | 3           | Vertical   | 360            | 1.22          | -        |
| 5200MHz                        | Pass   | PK   | 5.1208G      | 58.27             | 74.00             | -15.73         | 1.79           | 3           | Vertical   | 360            | 1.22          | -        |
| 5200MHz                        | Pass   | PK   | 5.2008G      | 108.58            | Inf               | -Inf           | 1.92           | 3           | Vertical   | 360            | 1.22          | -        |
| 5200MHz                        | Pass   | PK   | 10.39946G    | 61.20             | 68.20             | -7.00          | 11.68          | 3           | Horizontal | 181            | 1.00          | -        |
| 5200MHz                        | Pass   | PK   | 10.39832G    | 67.70             | 68.20             | -0.50          | 11.68          | 3           | Vertical   | 342            | 1.05          | -        |
| 5240MHz                        | Pass   | AV   | 5.1068G      | 45.48             | 54.00             | -8.52          | 1.77           | 3           | Horizontal | 348            | 1.58          | -        |
| 5240MHz                        | Pass   | AV   | 5.2406G      | 91.22             | Inf               | -Inf           | 1.98           | 3           | Horizontal | 348            | 1.58          | -        |
| 5240MHz                        | Pass   | AV   | 5.3582G      | 44.68             | 54.00             | -9.32          | 2.18           | 3           | Horizontal | 348            | 1.58          | -        |
| 5240MHz                        | Pass   | PK   | 5.1476G      | 55.26             | 74.00             | -18.74         | 1.83           | 3           | Horizontal | 348            | 1.58          | -        |
| 5240MHz                        | Pass   | PK   | 5.2406G      | 100.09            | Inf               | -Inf           | 1.98           | 3           | Horizontal | 348            | 1.58          | -        |

| Mode                           | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| 5240MHz                        | Pass   | PK   | 5.366G       | 54.00             | 74.00             | -20.00         | 2.19           | 3           | Horizontal | 348            | 1.58          | -        |
| 5240MHz                        | Pass   | AV   | 5.1224G      | 49.01             | 54.00             | -4.99          | 1.80           | 3           | Vertical   | 98             | 1.38          | -        |
| 5240MHz                        | Pass   | AV   | 5.2376G      | 99.55             | Inf               | -Inf           | 1.98           | 3           | Vertical   | 98             | 1.38          | -        |
| 5240MHz                        | Pass   | AV   | 5.3588G      | 46.29             | 54.00             | -7.71          | 2.18           | 3           | Vertical   | 98             | 1.38          | -        |
| 5240MHz                        | Pass   | PK   | 5.1314G      | 58.70             | 74.00             | -15.30         | 1.81           | 3           | Vertical   | 98             | 1.38          | -        |
| 5240MHz                        | Pass   | PK   | 5.2388G      | 107.83            | Inf               | -Inf           | 1.98           | 3           | Vertical   | 98             | 1.38          | -        |
| 5240MHz                        | Pass   | PK   | 5.3552G      | 55.94             | 74.00             | -18.06         | 2.17           | 3           | Vertical   | 98             | 1.38          | -        |
| 5240MHz                        | Pass   | PK   | 10.48438G    | 57.14             | 68.20             | -11.06         | 11.87          | 3           | Horizontal | 178            | 1.73          | -        |
| 5240MHz                        | Pass   | PK   | 10.48438G    | 67.75             | 68.20             | -0.45          | 11.87          | 3           | Vertical   | 235            | 1.00          | -        |
| 5745MHz                        | Pass   | AV   | 5.745G       | 94.94             | Inf               | -Inf           | 2.85           | 3           | Horizontal | 343            | 1.00          | -        |
| 5745MHz                        | Pass   | PK   | 5.6442G      | 55.76             | 68.20             | -12.44         | 2.66           | 3           | Horizontal | 343            | 1.00          | -        |
| 5745MHz                        | Pass   | PK   | 5.7402G      | 102.95            | Inf               | -Inf           | 2.84           | 3           | Horizontal | 343            | 1.00          | -        |
| 5745MHz                        | Pass   | PK   | 5.9442G      | 55.49             | 68.20             | -12.71         | 3.22           | 3           | Horizontal | 343            | 1.00          | -        |
| 5745MHz                        | Pass   | AV   | 5.7426G      | 104.47            | Inf               | -Inf           | 2.85           | 3           | Vertical   | 337            | 2.70          | -        |
| 5745MHz                        | Pass   | PK   | 5.649G       | 60.30             | 68.20             | -7.90          | 2.67           | 3           | Vertical   | 337            | 2.70          | -        |
| 5745MHz                        | Pass   | PK   | 5.7438G      | 112.94            | Inf               | -Inf           | 2.85           | 3           | Vertical   | 337            | 2.70          | -        |
| 5745MHz                        | Pass   | PK   | 5.9274G      | 56.73             | 68.20             | -11.47         | 3.19           | 3           | Vertical   | 337            | 2.70          | -        |
| 5745MHz                        | Pass   | AV   | 11.49126G    | 46.68             | 54.00             | -7.32          | 12.45          | 3           | Horizontal | 138            | 1.91          | -        |
| 5745MHz                        | Pass   | PK   | 11.49108G    | 58.23             | 74.00             | -15.77         | 12.46          | 3           | Horizontal | 138            | 1.91          | -        |
| 5745MHz                        | Pass   | AV   | 11.4912G     | 53.61             | 54.00             | -0.39          | 12.45          | 3           | Vertical   | 345            | 1.74          | -        |
| 5745MHz                        | Pass   | PK   | 11.48946G    | 65.58             | 74.00             | -8.42          | 12.46          | 3           | Vertical   | 345            | 1.74          | -        |
| 5785MHz                        | Pass   | AV   | 5.7862G      | 93.84             | Inf               | -Inf           | 2.93           | 3           | Horizontal | 342            | 1.00          | -        |
| 5785MHz                        | Pass   | PK   | 5.6386G      | 55.94             | 68.20             | -12.26         | 2.66           | 3           | Horizontal | 342            | 1.00          | -        |
| 5785MHz                        | Pass   | PK   | 5.7862G      | 101.14            | Inf               | -Inf           | 2.93           | 3           | Horizontal | 342            | 1.00          | -        |
| 5785MHz                        | Pass   | PK   | 5.9326G      | 55.44             | 68.20             | -12.76         | 3.20           | 3           | Horizontal | 342            | 1.00          | -        |
| 5785MHz                        | Pass   | AV   | 5.7826G      | 103.68            | Inf               | -Inf           | 2.92           | 3           | Vertical   | 322            | 1.09          | -        |
| 5785MHz                        | Pass   | PK   | 5.6482G      | 56.26             | 68.20             | -11.94         | 2.67           | 3           | Vertical   | 322            | 1.09          | -        |
| 5785MHz                        | Pass   | PK   | 5.7826G      | 109.41            | Inf               | -Inf           | 2.92           | 3           | Vertical   | 322            | 1.09          | -        |
| 5785MHz                        | Pass   | PK   | 5.929G       | 55.60             | 68.20             | -12.60         | 3.19           | 3           | Vertical   | 322            | 1.09          | -        |
| 5785MHz                        | Pass   | AV   | 11.57408G    | 44.93             | 54.00             | -9.07          | 12.36          | 3           | Horizontal | 319            | 1.56          | -        |
| 5785MHz                        | Pass   | PK   | 11.561G      | 55.78             | 74.00             | -18.22         | 12.38          | 3           | Horizontal | 319            | 1.56          | -        |
| 5785MHz                        | Pass   | AV   | 11.56826G    | 53.45             | 54.00             | -0.55          | 12.37          | 3           | Vertical   | 104            | 1.83          | -        |
| 5785MHz                        | Pass   | PK   | 11.56922G    | 63.58             | 74.00             | -10.42         | 12.37          | 3           | Vertical   | 104            | 1.83          | -        |
| 5825MHz                        | Pass   | AV   | 5.8262G      | 95.85             | Inf               | -Inf           | 3.00           | 3           | Horizontal | 350            | 2.68          | -        |
| 5825MHz                        | Pass   | PK   | 5.6462G      | 54.99             | 68.20             | -13.21         | 2.67           | 3           | Horizontal | 350            | 2.68          | -        |
| 5825MHz                        | Pass   | PK   | 5.8238G      | 104.13            | Inf               | -Inf           | 3.00           | 3           | Horizontal | 350            | 2.68          | -        |
| 5825MHz                        | Pass   | PK   | 5.9438G      | 56.18             | 68.20             | -12.02         | 3.22           | 3           | Horizontal | 350            | 2.68          | -        |
| 5825MHz                        | Pass   | AV   | 5.8286G      | 104.85            | Inf               | -Inf           | 3.00           | 3           | Vertical   | 321            | 1.06          | -        |
| 5825MHz                        | Pass   | PK   | 5.6426G      | 57.30             | 68.20             | -10.90         | 2.66           | 3           | Vertical   | 321            | 1.06          | -        |
| 5825MHz                        | Pass   | PK   | 5.8286G      | 113.18            | Inf               | -Inf           | 3.00           | 3           | Vertical   | 321            | 1.06          | -        |
| 5825MHz                        | Pass   | PK   | 5.9306G      | 59.72             | 68.20             | -8.48          | 3.20           | 3           | Vertical   | 321            | 1.06          | -        |
| 5825MHz                        | Pass   | AV   | 11.64862G    | 45.13             | 54.00             | -8.87          | 12.28          | 3           | Horizontal | 177            | 2.00          | -        |
| 5825MHz                        | Pass   | PK   | 11.6497G     | 56.16             | 74.00             | -17.84         | 12.28          | 3           | Horizontal | 177            | 2.00          | -        |
| 5825MHz                        | Pass   | AV   | 11.64838G    | 53.82             | 54.00             | -0.18          | 12.28          | 3           | Vertical   | 334            | 1.09          | -        |
| 5825MHz                        | Pass   | PK   | 11.64952G    | 65.19             | 74.00             | -8.81          | 12.28          | 3           | Vertical   | 334            | 1.09          | -        |
| 802.11ac VHT40_Nss1,(MCS0)_4TX | -      | -    | -            | -                 | -                 | -              | -              | -           | -          | -              | -             | -        |
| 5190MHz                        | Pass   | AV   | 5.1496G      | 50.47             | 54.00             | -3.53          | 1.83           | 3           | Horizontal | 310            | 1.04          | -        |
| 5190MHz                        | Pass   | AV   | 5.1788G      | 96.19             | Inf               | -Inf           | 1.89           | 3           | Horizontal | 310            | 1.04          | -        |
| 5190MHz                        | Pass   | PK   | 5.149995G    | 58.73             | 74.00             | -15.27         | 1.83           | 3           | Horizontal | 310            | 1.04          | -        |

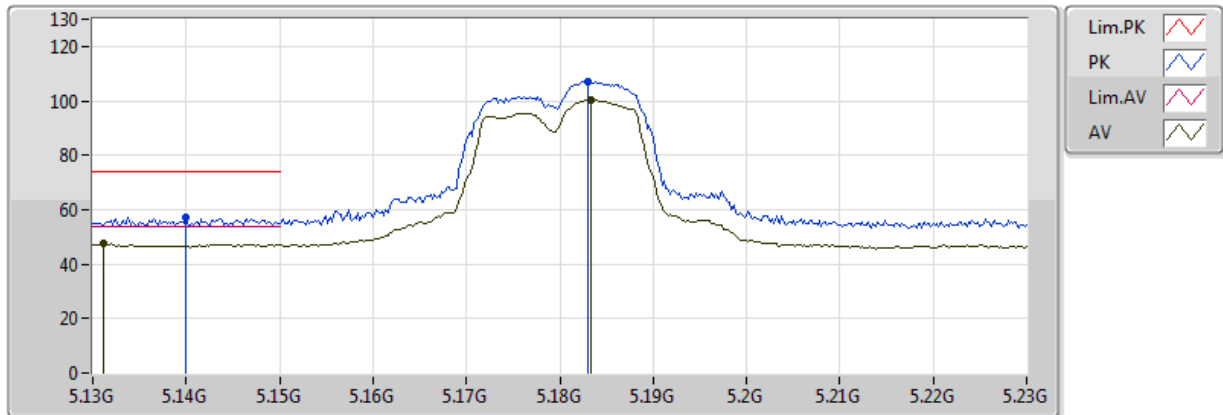
| Mode                          | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|-------------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| 5190MHz                       | Pass   | PK   | 5.198G       | 101.23            | Inf               | -Inf           | 1.92           | 3           | Horizontal | 310            | 1.04          | -        |
| 5190MHz                       | Pass   | AV   | 5.1492G      | 53.75             | 54.00             | -0.25          | 1.83           | 3           | Vertical   | 337            | 1.14          | -        |
| 5190MHz                       | Pass   | AV   | 5.196G       | 100.89            | Inf               | -Inf           | 1.91           | 3           | Vertical   | 337            | 1.14          | -        |
| 5190MHz                       | Pass   | PK   | 5.1468G      | 61.90             | 74.00             | -12.10         | 1.83           | 3           | Vertical   | 337            | 1.14          | -        |
| 5190MHz                       | Pass   | PK   | 5.1956G      | 107.23            | Inf               | -Inf           | 1.91           | 3           | Vertical   | 337            | 1.14          | -        |
| 5190MHz                       | Pass   | PK   | 10.37994G    | 60.77             | 68.20             | -7.43          | 11.64          | 3           | Horizontal | 176            | 2.30          | -        |
| 5190MHz                       | Pass   | PK   | 10.3776G     | 67.78             | 68.20             | -0.42          | 11.63          | 3           | Vertical   | 337            | 1.00          | -        |
| 5230MHz                       | Pass   | AV   | 5.1364G      | 47.21             | 54.00             | -6.79          | 1.82           | 3           | Horizontal | 308            | 2.90          | -        |
| 5230MHz                       | Pass   | AV   | 5.2272G      | 93.75             | Inf               | -Inf           | 1.96           | 3           | Horizontal | 308            | 2.90          | -        |
| 5230MHz                       | Pass   | PK   | 5.1432G      | 54.54             | 74.00             | -19.46         | 1.82           | 3           | Horizontal | 308            | 2.90          | -        |
| 5230MHz                       | Pass   | PK   | 5.2252G      | 100.43            | Inf               | -Inf           | 1.96           | 3           | Horizontal | 308            | 2.90          | -        |
| 5230MHz                       | Pass   | AV   | 5.142G       | 51.01             | 54.00             | -2.99          | 1.82           | 3           | Vertical   | 340            | 1.01          | -        |
| 5230MHz                       | Pass   | AV   | 5.2268G      | 100.56            | Inf               | -Inf           | 1.96           | 3           | Vertical   | 340            | 1.01          | -        |
| 5230MHz                       | Pass   | PK   | 5.1444G      | 58.82             | 74.00             | -15.18         | 1.83           | 3           | Vertical   | 340            | 1.01          | -        |
| 5230MHz                       | Pass   | PK   | 5.2196G      | 106.89            | Inf               | -Inf           | 1.95           | 3           | Vertical   | 340            | 1.01          | -        |
| 5230MHz                       | Pass   | PK   | 10.45862G    | 59.82             | 68.20             | -8.38          | 11.81          | 3           | Horizontal | 175            | 1.15          | -        |
| 5230MHz                       | Pass   | PK   | 10.4576G     | 68.04             | 68.20             | -0.16          | 11.81          | 3           | Vertical   | 339            | 2.28          | -        |
| 5755MHz                       | Pass   | AV   | 5.7514G      | 92.31             | Inf               | -Inf           | 2.86           | 3           | Horizontal | 360            | 2.73          | -        |
| 5755MHz                       | Pass   | PK   | 5.6434G      | 56.43             | 68.20             | -11.77         | 2.66           | 3           | Horizontal | 360            | 2.73          | -        |
| 5755MHz                       | Pass   | PK   | 5.761G       | 99.11             | Inf               | -Inf           | 2.88           | 3           | Horizontal | 360            | 2.73          | -        |
| 5755MHz                       | Pass   | PK   | 5.9338G      | 55.65             | 68.20             | -12.55         | 3.20           | 3           | Horizontal | 360            | 2.73          | -        |
| 5755MHz                       | Pass   | AV   | 5.7586G      | 102.80            | Inf               | -Inf           | 2.88           | 3           | Vertical   | 335            | 1.13          | -        |
| 5755MHz                       | Pass   | PK   | 5.6422G      | 59.40             | 68.20             | -8.80          | 2.66           | 3           | Vertical   | 335            | 1.13          | -        |
| 5755MHz                       | Pass   | PK   | 5.7598G      | 109.44            | Inf               | -Inf           | 2.88           | 3           | Vertical   | 335            | 1.13          | -        |
| 5755MHz                       | Pass   | PK   | 5.9302G      | 57.03             | 68.20             | -11.17         | 3.20           | 3           | Vertical   | 335            | 1.13          | -        |
| 5755MHz                       | Pass   | AV   | 11.51342G    | 45.39             | 54.00             | -8.61          | 12.43          | 3           | Horizontal | 57             | 1.01          | -        |
| 5755MHz                       | Pass   | PK   | 11.50664G    | 54.43             | 74.00             | -19.57         | 12.44          | 3           | Horizontal | 57             | 1.01          | -        |
| 5755MHz                       | Pass   | AV   | 11.5112G     | 53.69             | 54.00             | -0.31          | 12.43          | 3           | Vertical   | 333            | 1.00          | -        |
| 5755MHz                       | Pass   | PK   | 11.50982G    | 60.70             | 74.00             | -13.30         | 12.43          | 3           | Vertical   | 333            | 1.00          | -        |
| 5795MHz                       | Pass   | AV   | 5.789G       | 92.55             | Inf               | -Inf           | 2.93           | 3           | Horizontal | 360            | 2.70          | -        |
| 5795MHz                       | Pass   | PK   | 5.633G       | 55.48             | 68.20             | -12.72         | 2.64           | 3           | Horizontal | 360            | 2.70          | -        |
| 5795MHz                       | Pass   | PK   | 5.7914G      | 99.15             | Inf               | -Inf           | 2.93           | 3           | Horizontal | 360            | 2.70          | -        |
| 5795MHz                       | Pass   | PK   | 5.9762G      | 55.93             | 68.20             | -12.27         | 3.27           | 3           | Horizontal | 360            | 2.70          | -        |
| 5795MHz                       | Pass   | AV   | 5.7986G      | 103.37            | Inf               | -Inf           | 2.95           | 3           | Vertical   | 330            | 1.00          | -        |
| 5795MHz                       | Pass   | PK   | 5.6366G      | 57.96             | 68.20             | -10.24         | 2.65           | 3           | Vertical   | 330            | 1.00          | -        |
| 5795MHz                       | Pass   | PK   | 5.7986G      | 110.02            | Inf               | -Inf           | 2.95           | 3           | Vertical   | 330            | 1.00          | -        |
| 5795MHz                       | Pass   | PK   | 5.933G       | 58.21             | 68.20             | -9.99          | 3.20           | 3           | Vertical   | 330            | 1.00          | -        |
| 5795MHz                       | Pass   | AV   | 11.59078G    | 46.00             | 54.00             | -8.00          | 12.34          | 3           | Horizontal | 222            | 1.01          | -        |
| 5795MHz                       | Pass   | PK   | 11.58838G    | 54.94             | 74.00             | -19.06         | 12.35          | 3           | Horizontal | 222            | 1.01          | -        |
| 5795MHz                       | Pass   | AV   | 11.58964G    | 53.60             | 54.00             | -0.40          | 12.34          | 3           | Vertical   | 11             | 1.00          | -        |
| 5795MHz                       | Pass   | PK   | 11.58868G    | 57.75             | 74.00             | -16.25         | 12.34          | 3           | Vertical   | 11             | 1.00          | -        |
| 802.11ac VHT80_Nss1(MCS0)_4TX | -      | -    | -            | -                 | -                 | -              | -              | -           | -          | -              | -             | -        |
| 5210MHz                       | Pass   | AV   | 5.146G       | 49.54             | 54.00             | -4.46          | 1.83           | 3           | Horizontal | 305            | 1.02          | -        |
| 5210MHz                       | Pass   | AV   | 5.197G       | 91.09             | Inf               | -Inf           | 1.92           | 3           | Horizontal | 305            | 1.02          | -        |
| 5210MHz                       | Pass   | AV   | 5.389G       | 46.46             | 54.00             | -7.54          | 2.22           | 3           | Horizontal | 305            | 1.02          | -        |
| 5210MHz                       | Pass   | PK   | 5.149G       | 58.34             | 74.00             | -15.66         | 1.83           | 3           | Horizontal | 305            | 1.02          | -        |
| 5210MHz                       | Pass   | PK   | 5.219G       | 97.47             | Inf               | -Inf           | 1.95           | 3           | Horizontal | 305            | 1.02          | -        |
| 5210MHz                       | Pass   | PK   | 5.447G       | 54.16             | 74.00             | -19.84         | 2.31           | 3           | Horizontal | 305            | 1.02          | -        |
| 5210MHz                       | Pass   | AV   | 5.146G       | 53.57             | 54.00             | -0.43          | 1.83           | 3           | Vertical   | 348            | 1.21          | -        |

| Mode    | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|---------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| 5210MHz | Pass   | AV   | 5.207G       | 97.96             | Inf               | -Inf           | 1.93           | 3           | Vertical   | 348            | 1.21          | -        |
| 5210MHz | Pass   | AV   | 5.365G       | 48.39             | 54.00             | -5.61          | 2.19           | 3           | Vertical   | 348            | 1.21          | -        |
| 5210MHz | Pass   | PK   | 5.132G       | 62.48             | 74.00             | -11.52         | 1.81           | 3           | Vertical   | 348            | 1.21          | -        |
| 5210MHz | Pass   | PK   | 5.2G         | 103.51            | Inf               | -Inf           | 1.92           | 3           | Vertical   | 348            | 1.21          | -        |
| 5210MHz | Pass   | PK   | 5.357G       | 58.01             | 74.00             | -15.99         | 2.18           | 3           | Vertical   | 348            | 1.21          | -        |
| 5210MHz | Pass   | AV   | 10.40926G    | 46.12             | 54.00             | -7.88          | 11.70          | 3           | Horizontal | 189            | 1.22          | -        |
| 5210MHz | Pass   | PK   | 10.43176G    | 55.52             | 74.00             | -18.48         | 11.75          | 3           | Horizontal | 189            | 1.22          | -        |
| 5210MHz | Pass   | AV   | 10.4287G     | 52.08             | 54.00             | -1.92          | 11.75          | 3           | Vertical   | 354            | 2.50          | -        |
| 5210MHz | Pass   | PK   | 10.40908G    | 62.16             | 74.00             | -11.84         | 11.70          | 3           | Vertical   | 354            | 2.50          | -        |
| 5775MHz | Pass   | AV   | 5.7678G      | 90.49             | Inf               | -Inf           | 2.89           | 3           | Horizontal | 357            | 1.01          | -        |
| 5775MHz | Pass   | PK   | 5.6154G      | 55.28             | 68.20             | -12.92         | 2.61           | 3           | Horizontal | 357            | 1.01          | -        |
| 5775MHz | Pass   | PK   | 5.769G       | 97.01             | Inf               | -Inf           | 2.89           | 3           | Horizontal | 357            | 1.01          | -        |
| 5775MHz | Pass   | PK   | 5.9646G      | 55.58             | 68.20             | -12.62         | 3.26           | 3           | Horizontal | 357            | 1.01          | -        |
| 5775MHz | Pass   | AV   | 5.7786G      | 102.26            | Inf               | -Inf           | 2.91           | 3           | Vertical   | 320            | 1.09          | -        |
| 5775MHz | Pass   | PK   | 5.6502G      | 65.08             | 68.35             | -3.27          | 2.68           | 3           | Vertical   | 320            | 1.09          | -        |
| 5775MHz | Pass   | PK   | 5.7786G      | 107.70            | Inf               | -Inf           | 2.91           | 3           | Vertical   | 320            | 1.09          | -        |
| 5775MHz | Pass   | PK   | 5.9238G      | 64.19             | 69.09             | -4.90          | 3.19           | 3           | Vertical   | 320            | 1.09          | -        |
| 5775MHz | Pass   | AV   | 11.5263G     | 45.00             | 54.00             | -9.00          | 12.42          | 3           | Horizontal | 32             | 1.41          | -        |
| 5775MHz | Pass   | PK   | 11.5293G     | 53.71             | 74.00             | -20.29         | 12.41          | 3           | Horizontal | 32             | 1.41          | -        |
| 5775MHz | Pass   | AV   | 11.5686G     | 53.41             | 54.00             | -0.59          | 12.37          | 3           | Vertical   | 346            | 1.00          | -        |
| 5775MHz | Pass   | PK   | 11.5703G     | 63.63             | 74.00             | -10.37         | 12.37          | 3           | Vertical   | 346            | 1.00          | -        |

## 802.11a\_Nss1,(6Mbps)\_4TX

### 5180MHz\_TX

17/03/2018

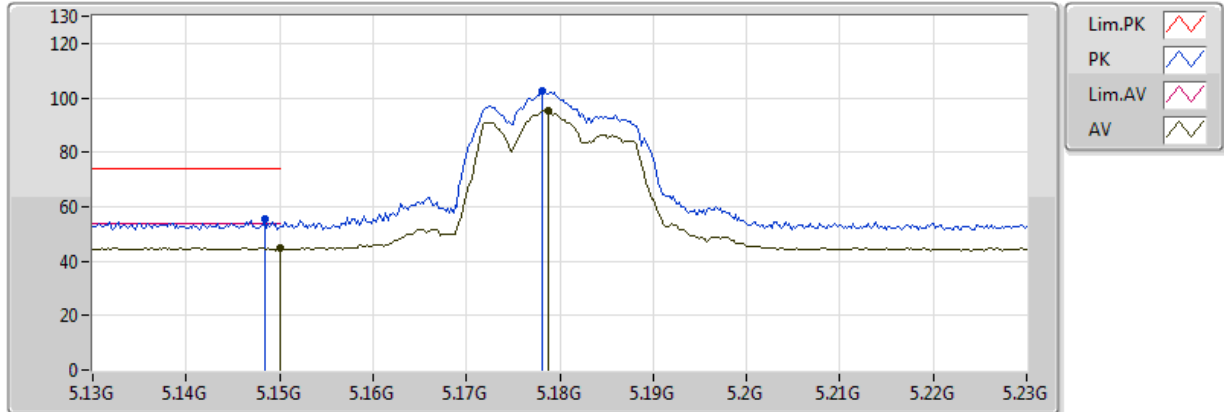


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.1312G      | 47.42             | 54.00             | -6.58          | 1.80           | 3           | Vertical  | 237            | 1.02          | -        | 45.62         | 31.60      | 5.41       | 35.21      |
| AV   | 5.1834G      | 100.38            | Inf               | -Inf           | 1.89           | 3           | Vertical  | 237            | 1.02          | -        | 98.49         | 31.65      | 5.45       | 35.20      |
| PK   | 5.14G        | 56.98             | 74.00             | -17.02         | 1.82           | 3           | Vertical  | 237            | 1.02          | -        | 55.16         | 31.61      | 5.42       | 35.21      |
| PK   | 5.183G       | 107.20            | Inf               | -Inf           | 1.89           | 3           | Vertical  | 237            | 1.02          | -        | 105.31        | 31.65      | 5.45       | 35.20      |

## 802.11a\_Nss1,(6Mbps)\_4TX

## 5180MHz\_TX

17/03/2018

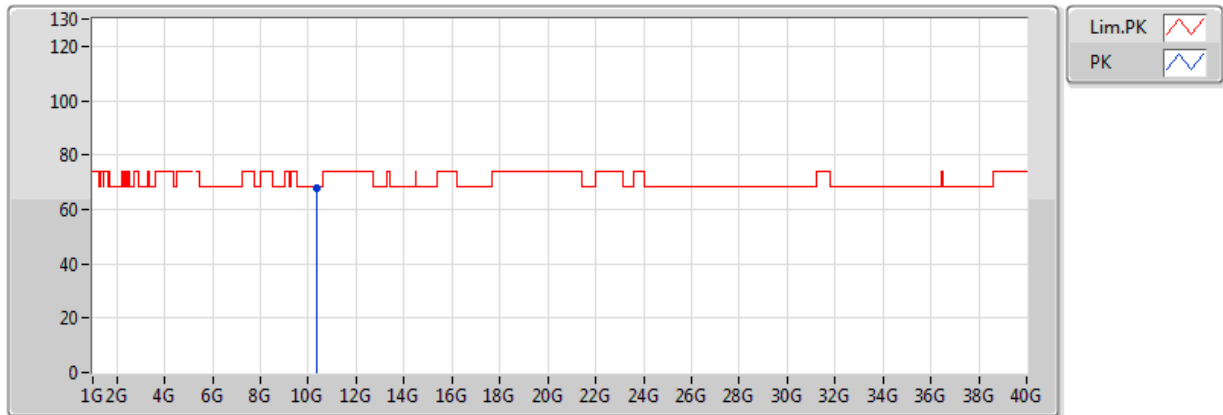


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.149995G    | 44.89             | 54.00             | -9.11          | 1.83           | 3           | Horizontal | 327            | 1.05          | -        | 43.06         | 31.62      | 5.42       | 35.21      |
| AV   | 5.1788G      | 95.27             | Inf               | -Inf           | 1.89           | 3           | Horizontal | 327            | 1.05          | -        | 93.38         | 31.64      | 5.45       | 35.20      |
| PK   | 5.1484G      | 55.69             | 74.00             | -18.31         | 1.83           | 3           | Horizontal | 327            | 1.05          | -        | 53.86         | 31.62      | 5.42       | 35.21      |
| PK   | 5.1782G      | 102.45            | Inf               | -Inf           | 1.89           | 3           | Horizontal | 327            | 1.05          | -        | 100.56        | 31.64      | 5.44       | 35.20      |

## 802.11a\_Nss1,(6Mbps)\_4TX

### 5180MHz\_TX

17/03/2018

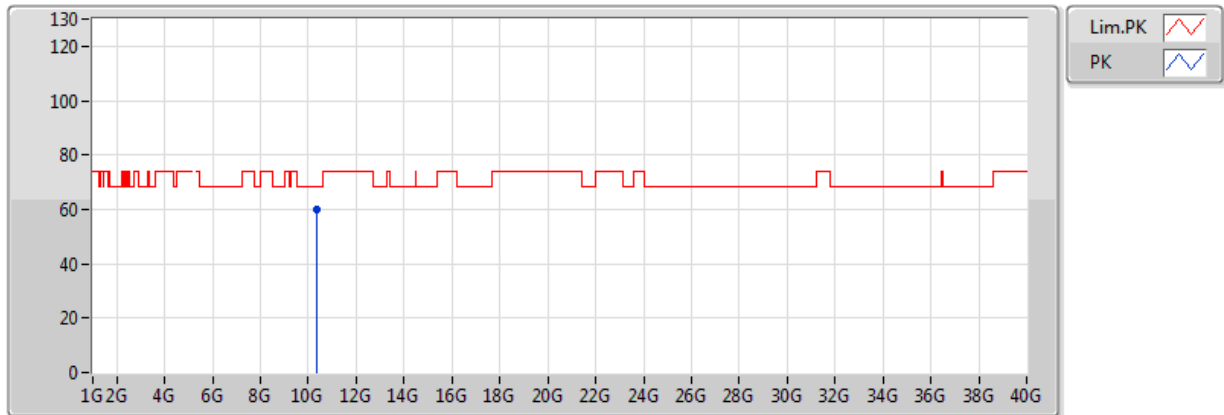


| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|-----------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| PK   | 10.3618G | 67.92    | 68.20    | -0.28  | 11.60  | 3    | Vertical  | 323     | 2.21   | -        | 56.32  | 39.41 | 8.00 | 35.81 |

# 802.11a\_Nss1,(6Mbps)\_4TX

## 5180MHz\_TX

17/03/2018

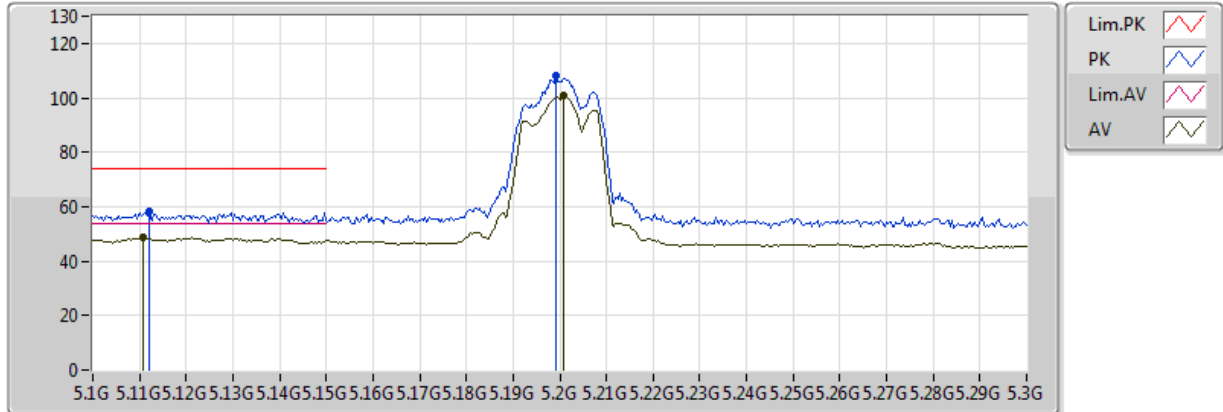


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|-----------|----------|----------|--------|--------|------|------------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| PK   | 10.36174G | 59.90    | 68.20    | -8.30  | 11.60  | 3    | Horizontal | 187     | 1.18   | -        | 48.30  | 39.41 | 8.00 | 35.81 |

# 802.11a\_Nss1,(6Mbps)\_4TX

## 5200MHz\_TX

17/03/2018

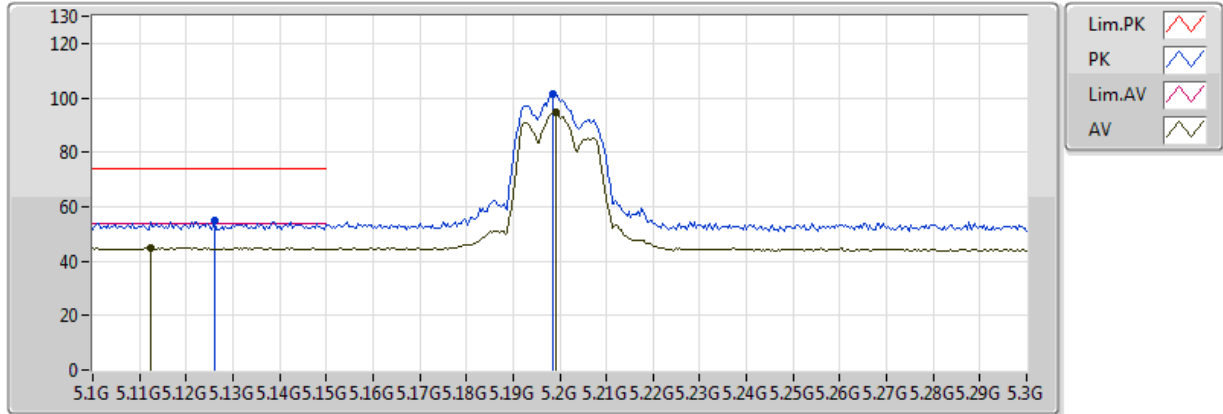


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.1108G      | 48.53             | 54.00             | -5.47          | 1.78           | 3           | Vertical  | 8              | 2.58          | -        | 46.75         | 31.59      | 5.40       | 35.21      |
| AV   | 5.2008G      | 100.84            | Inf               | -Inf           | 1.92           | 3           | Vertical  | 8              | 2.58          | -        | 98.92         | 31.66      | 5.46       | 35.20      |
| PK   | 5.112G       | 58.35             | 74.00             | -15.65         | 1.78           | 3           | Vertical  | 8              | 2.58          | -        | 56.57         | 31.59      | 5.40       | 35.21      |
| PK   | 5.1992G      | 107.97            | Inf               | -Inf           | 1.92           | 3           | Vertical  | 8              | 2.58          | -        | 106.05        | 31.66      | 5.46       | 35.20      |

## 802.11a\_Nss1,(6Mbps)\_4TX

### 5200MHz\_TX

17/03/2018

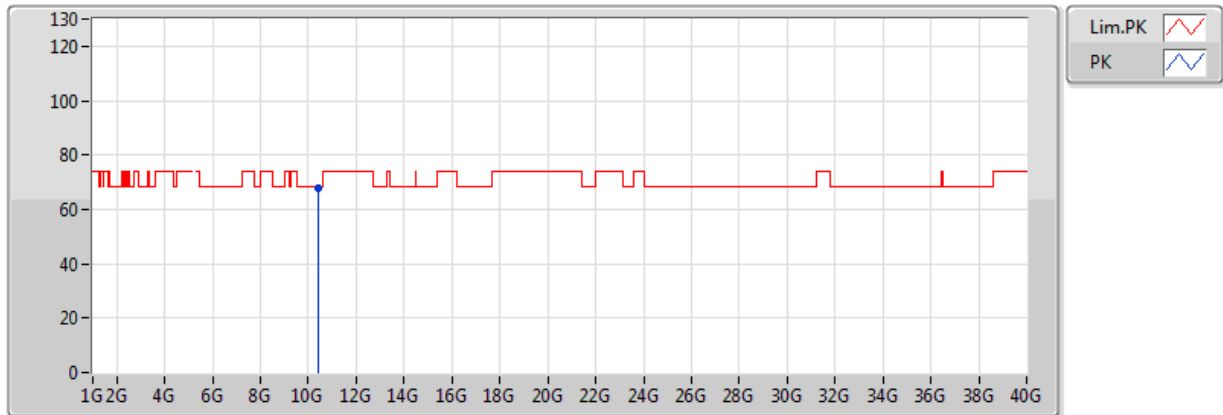


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.1124G      | 44.95             | 54.00             | -9.05          | 1.78           | 3           | Horizontal | 329            | 1.00          | -        | 43.17         | 31.59      | 5.40       | 35.21      |
| AV   | 5.1992G      | 94.53             | Inf               | -Inf           | 1.92           | 3           | Horizontal | 329            | 1.00          | -        | 92.61         | 31.66      | 5.46       | 35.20      |
| PK   | 5.126G       | 54.91             | 74.00             | -19.09         | 1.80           | 3           | Horizontal | 329            | 1.00          | -        | 53.11         | 31.60      | 5.41       | 35.21      |
| PK   | 5.1984G      | 101.33            | Inf               | -Inf           | 1.92           | 3           | Horizontal | 329            | 1.00          | -        | 99.41         | 31.66      | 5.46       | 35.20      |

## 802.11a\_Nss1,(6Mbps)\_4TX

### 5200MHz\_TX

17/03/2018

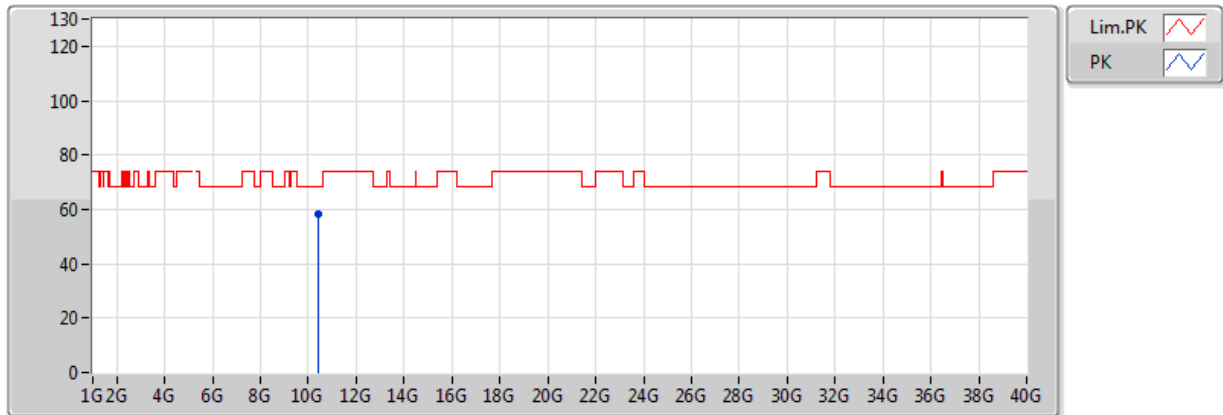


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| PK   | 10.40162G    | 67.94             | 68.20             | -0.26          | 11.69          | 3           | Vertical  | 324            | 2.40          | -        | 56.25         | 39.46      | 8.01       | 35.78      |

## 802.11a\_Nss1,(6Mbps)\_4TX

### 5200MHz\_TX

17/03/2018

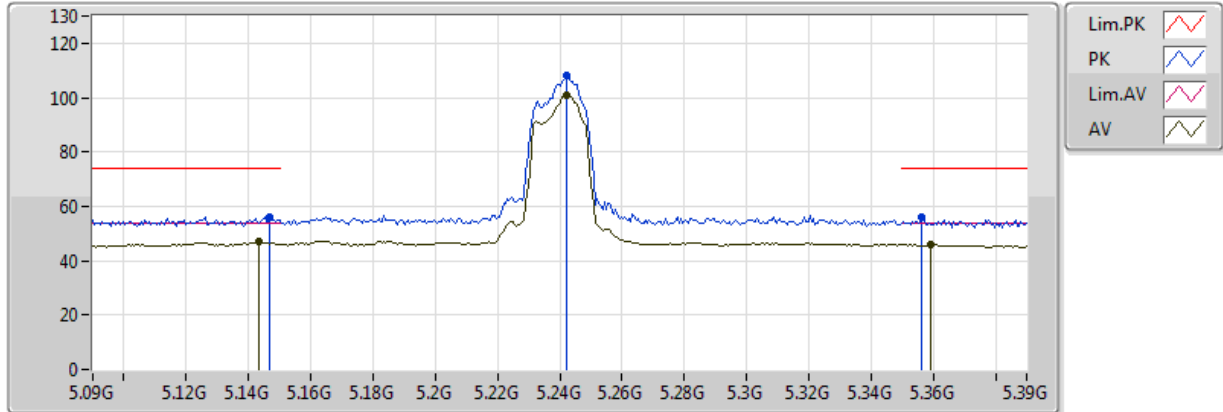


| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|------------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| PK   | 10.3964G | 58.50    | 68.20    | -9.70  | 11.68  | 3    | Horizontal | 185     | 2.22   | -        | 46.82  | 39.45 | 8.01 | 35.78 |

## 802.11a\_Nss1,(6Mbps)\_4TX

## 5240MHz\_TX

17/03/2018

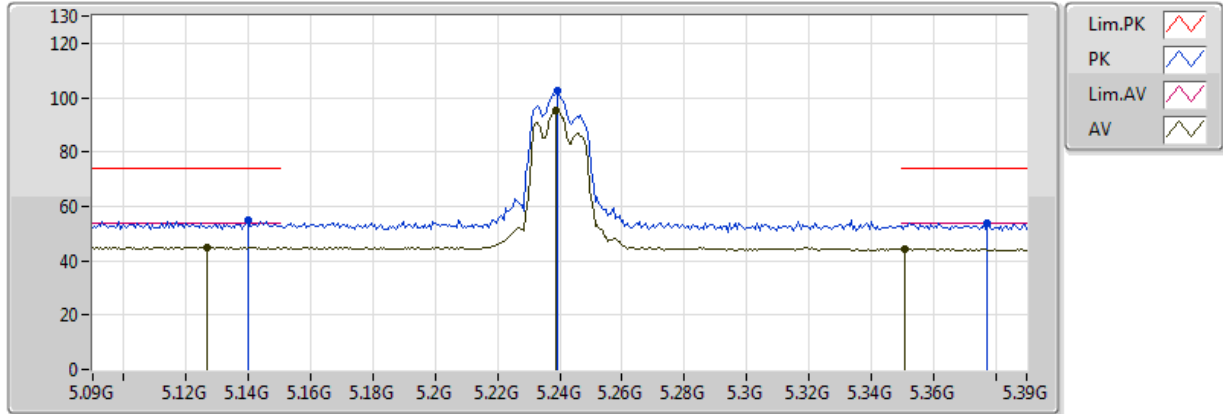


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.1434G      | 46.86             | 54.00             | -7.14          | 1.82           | 3           | Vertical  | 326            | 1.29          | -        | 45.04         | 31.61      | 5.42       | 35.21      |
| AV   | 5.2424G      | 101.00            | Inf               | -Inf           | 1.99           | 3           | Vertical  | 326            | 1.29          | -        | 99.01         | 31.69      | 5.49       | 35.20      |
| AV   | 5.3594G      | 45.86             | 54.00             | -8.14          | 2.18           | 3           | Vertical  | 326            | 1.29          | -        | 43.68         | 31.79      | 5.57       | 35.18      |
| PK   | 5.147G       | 56.30             | 74.00             | -17.70         | 1.83           | 3           | Vertical  | 326            | 1.29          | -        | 54.47         | 31.62      | 5.42       | 35.21      |
| PK   | 5.2424G      | 108.16            | Inf               | -Inf           | 1.99           | 3           | Vertical  | 326            | 1.29          | -        | 106.17        | 31.69      | 5.49       | 35.20      |
| PK   | 5.3564G      | 56.06             | 74.00             | -17.94         | 2.18           | 3           | Vertical  | 326            | 1.29          | -        | 53.88         | 31.79      | 5.57       | 35.18      |

## 802.11a\_Nss1,(6Mbps)\_4TX

## 5240MHz\_TX

17/03/2018

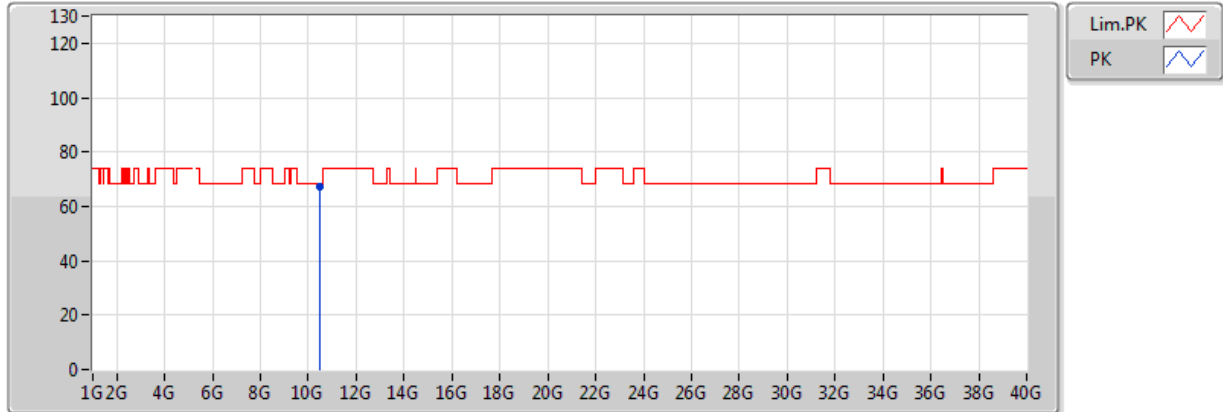


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.1266G      | 45.00             | 54.00             | -9.00          | 1.80           | 3           | Horizontal | 329            | 1.00          | -        | 43.20         | 31.60      | 5.41       | 35.21      |
| AV   | 5.2388G      | 95.21             | Inf               | -Inf           | 1.98           | 3           | Horizontal | 329            | 1.00          | -        | 93.23         | 31.69      | 5.49       | 35.20      |
| AV   | 5.351G       | 44.51             | 54.00             | -9.49          | 2.17           | 3           | Horizontal | 329            | 1.00          | -        | 42.34         | 31.78      | 5.57       | 35.18      |
| PK   | 5.1398G      | 54.98             | 74.00             | -19.02         | 1.82           | 3           | Horizontal | 329            | 1.00          | -        | 53.16         | 31.61      | 5.42       | 35.21      |
| PK   | 5.2394G      | 102.63            | Inf               | -Inf           | 1.98           | 3           | Horizontal | 329            | 1.00          | -        | 100.65        | 31.69      | 5.49       | 35.20      |
| PK   | 5.3774G      | 53.78             | 74.00             | -20.22         | 2.20           | 3           | Horizontal | 329            | 1.00          | -        | 51.58         | 31.80      | 5.58       | 35.18      |

## 802.11a\_Nss1,(6Mbps)\_4TX

### 5240MHz\_TX

17/03/2018

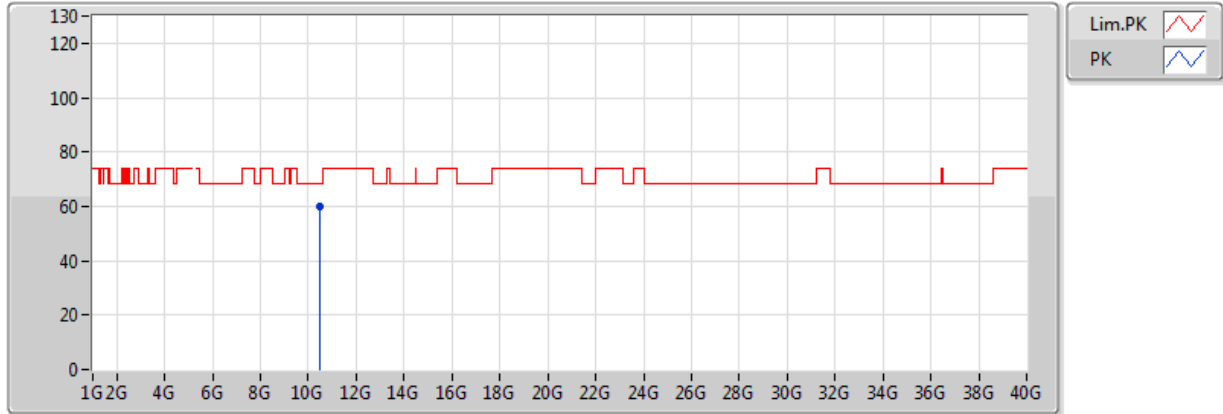


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|-----------|----------|----------|--------|--------|------|-----------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| PK   | 10.47652G | 67.39    | 68.20    | -0.81  | 11.85  | 3    | Vertical  | 346     | 1.01   | -        | 55.54  | 39.57 | 8.02 | 35.73 |

## 802.11a\_Nss1,(6Mbps)\_4TX

### 5240MHz\_TX

17/03/2018

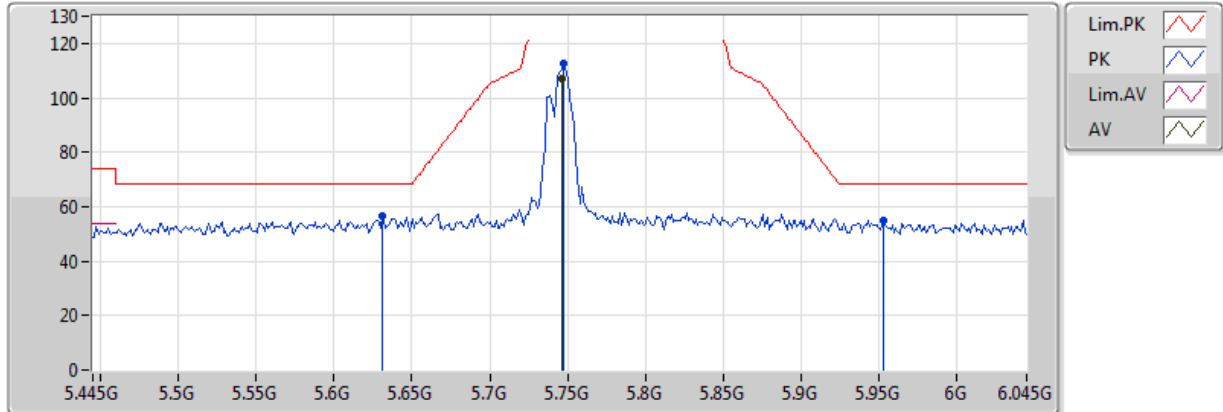


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|-----------|----------|----------|--------|--------|------|------------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| PK   | 10.48594G | 60.00    | 68.20    | -8.20  | 11.87  | 3    | Horizontal | 186     | 1.06   | -        | 48.13  | 39.58 | 8.02 | 35.72 |

## 802.11a\_Nss1,(6Mbps)\_4TX

### 5745MHz\_TX

17/03/2018

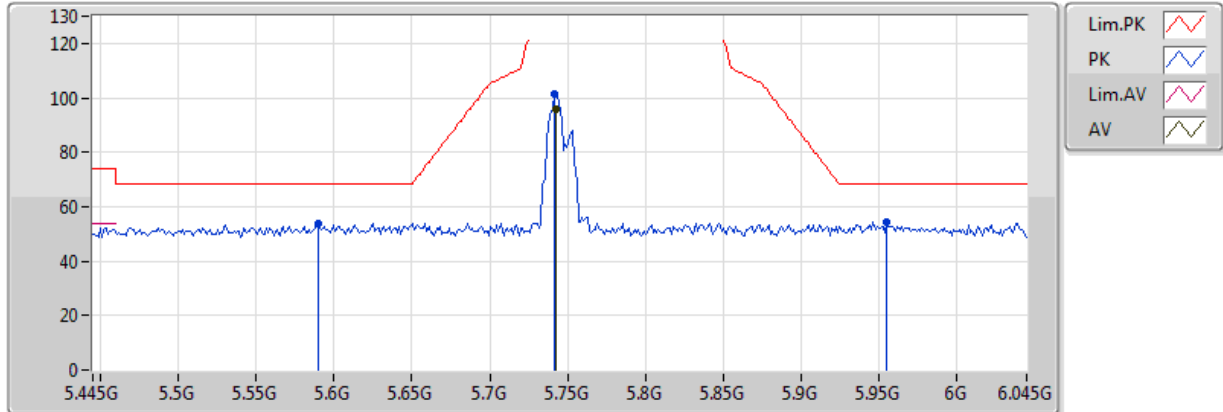


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.7462G      | 106.93            | Inf               | -Inf           | 2.85           | 3           | Vertical  | 322            | 1.00          | -        | 104.08        | 32.20      | 5.84       | 35.18      |
| PK   | 5.7474G      | 112.60            | Inf               | -Inf           | 2.86           | 3           | Vertical  | 322            | 1.00          | -        | 109.74        | 32.20      | 5.84       | 35.18      |
| PK   | 5.631G       | 56.34             | 68.20             | -11.86         | 2.64           | 3           | Vertical  | 322            | 1.00          | -        | 53.70         | 32.06      | 5.76       | 35.18      |
| PK   | 5.9526G      | 54.94             | 68.20             | -13.26         | 3.23           | 3           | Vertical  | 322            | 1.00          | -        | 51.71         | 32.44      | 5.99       | 35.20      |

## 802.11a\_Nss1,(6Mbps)\_4TX

### 5745MHz\_TX

17/03/2018

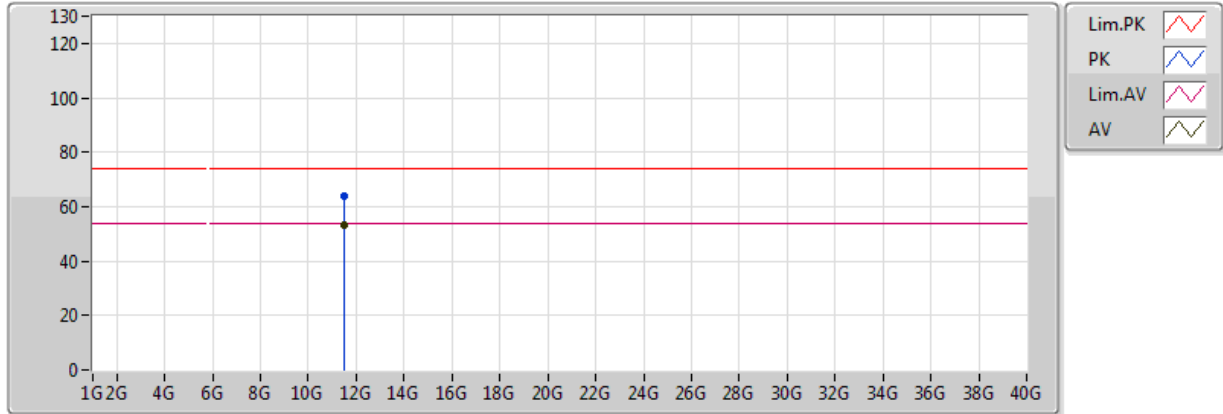


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.7426G      | 95.97             | Inf               | -Inf           | 2.85           | 3           | Horizontal | 9              | 1.05          | -        | 93.12         | 32.19      | 5.84       | 35.18      |
| PK   | 5.5902G      | 53.98             | 68.20             | -14.22         | 2.56           | 3           | Horizontal | 9              | 1.05          | -        | 51.42         | 32.01      | 5.73       | 35.18      |
| PK   | 5.7414G      | 101.49            | Inf               | -Inf           | 2.84           | 3           | Horizontal | 9              | 1.05          | -        | 98.65         | 32.19      | 5.84       | 35.18      |
| PK   | 5.955G       | 54.44             | 68.20             | -13.76         | 3.24           | 3           | Horizontal | 9              | 1.05          | -        | 51.20         | 32.45      | 5.99       | 35.20      |

## 802.11a\_Nss1,(6Mbps)\_4TX

### 5745MHz\_TX

17/03/2018

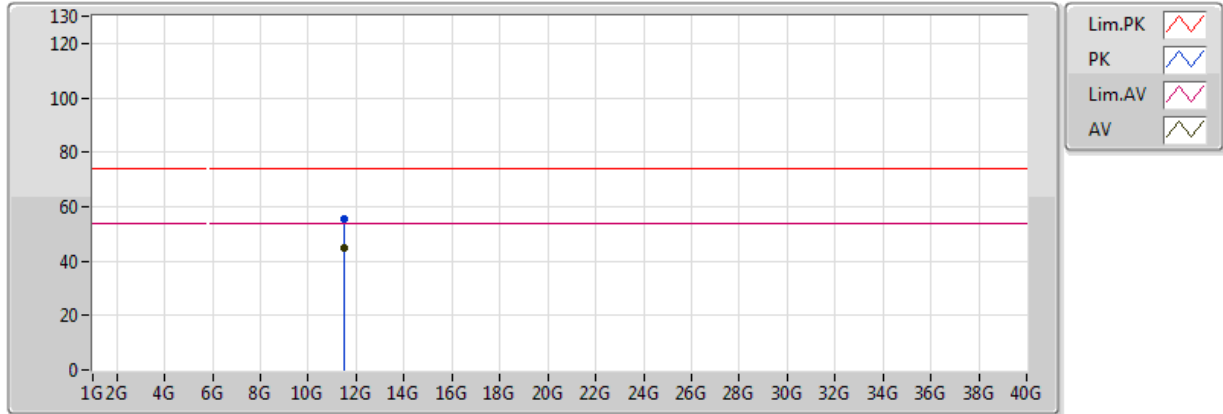


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|-----------|----------|----------|--------|--------|------|-----------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 11.49198G | 53.31    | 54.00    | -0.69  | 12.45  | 3    | Vertical  | 347     | 1.11   | -        | 40.86  | 39.56 | 8.37 | 35.48 |
| PK   | 11.49168G | 63.95    | 74.00    | -10.05 | 12.45  | 3    | Vertical  | 347     | 1.11   | -        | 51.50  | 39.56 | 8.37 | 35.48 |

## 802.11a\_Nss1,(6Mbps)\_4TX

### 5745MHz\_TX

17/03/2018

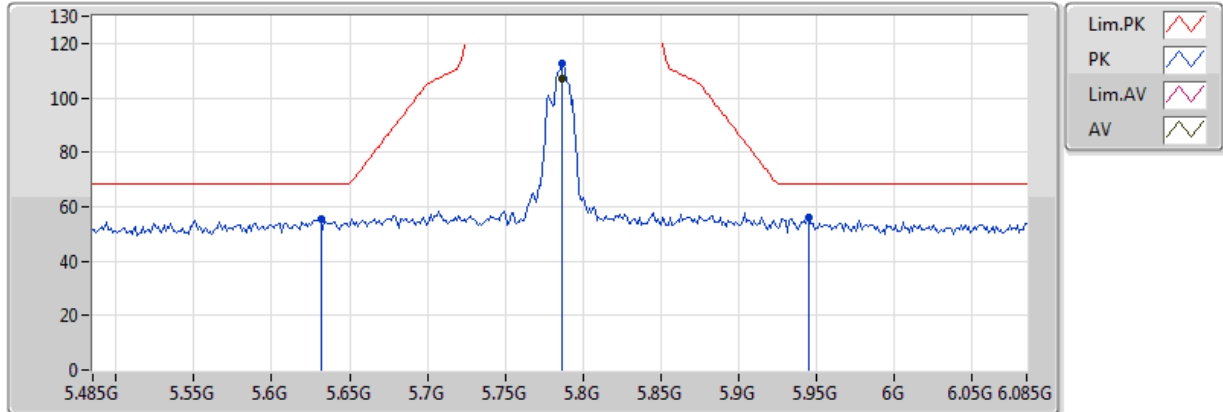


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 11.49576G    | 45.07             | 54.00             | -8.93          | 12.45          | 3           | Horizontal | 197            | 1.01          | -        | 32.62         | 39.56      | 8.37       | 35.48      |
| PK   | 11.49594G    | 55.52             | 74.00             | -18.48         | 12.45          | 3           | Horizontal | 197            | 1.01          | -        | 43.07         | 39.56      | 8.37       | 35.48      |

## 802.11a\_Nss1,(6Mbps)\_4TX

### 5785MHz\_TX

17/03/2018

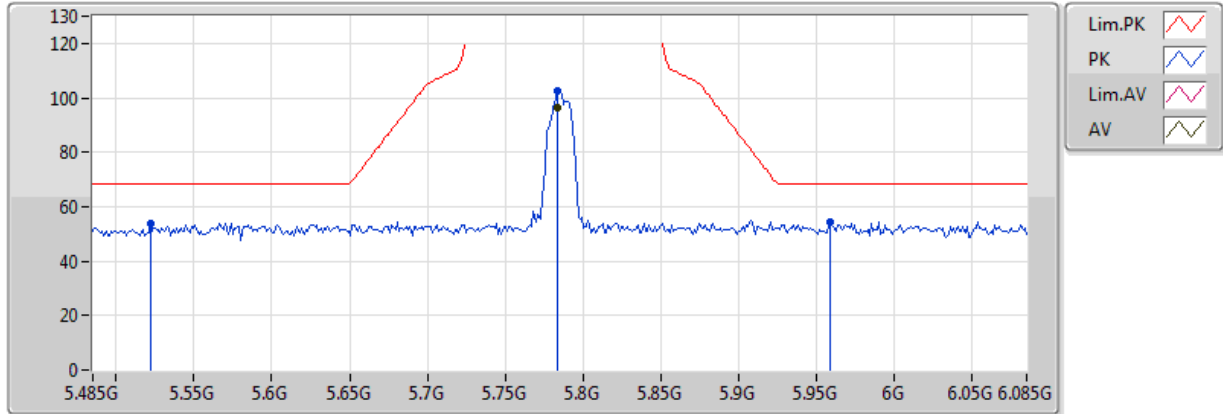


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.7862G      | 106.95            | Inf               | -Inf           | 2.93           | 3           | Vertical  | 319            | 1.02          | -        | 104.02        | 32.24      | 5.87       | 35.19      |
| PK   | 5.6314G      | 55.66             | 68.20             | -12.54         | 2.64           | 3           | Vertical  | 319            | 1.02          | -        | 53.02         | 32.06      | 5.76       | 35.18      |
| PK   | 5.7862G      | 112.81            | Inf               | -Inf           | 2.93           | 3           | Vertical  | 319            | 1.02          | -        | 109.88        | 32.24      | 5.87       | 35.19      |
| PK   | 5.9446G      | 55.85             | 68.20             | -12.35         | 3.22           | 3           | Vertical  | 319            | 1.02          | -        | 52.63         | 32.43      | 5.98       | 35.19      |

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5785MHz\_TX

17/03/2018

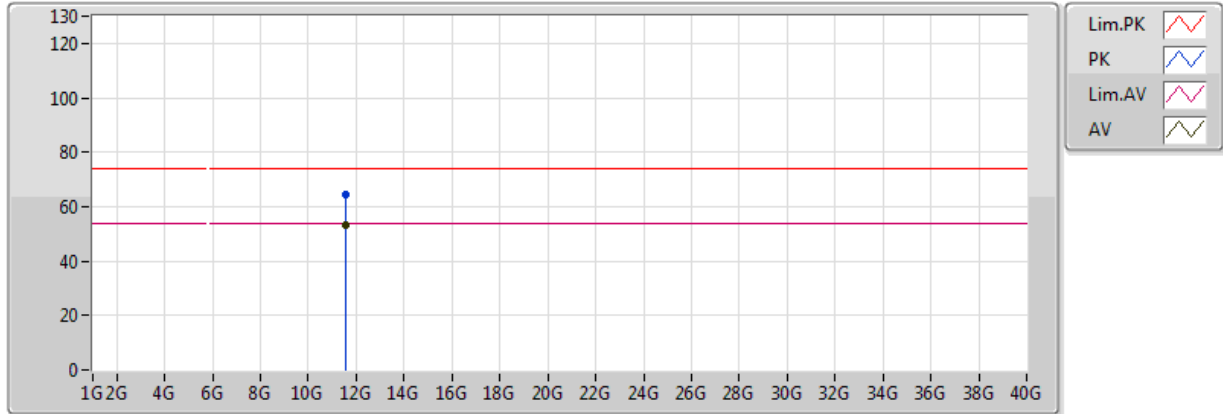


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.7838G      | 96.37             | Inf               | -Inf           | 2.92           | 3           | Horizontal | 40             | 1.02          | -        | 93.45         | 32.24      | 5.87       | 35.19      |
| PK   | 5.5222G      | 54.05             | 68.20             | -14.15         | 2.45           | 3           | Horizontal | 40             | 1.02          | -        | 51.60         | 31.93      | 5.69       | 35.17      |
| PK   | 5.7838G      | 102.57            | Inf               | -Inf           | 2.92           | 3           | Horizontal | 40             | 1.02          | -        | 99.65         | 32.24      | 5.87       | 35.19      |
| PK   | 5.959G       | 54.53             | 68.20             | -13.67         | 3.24           | 3           | Horizontal | 40             | 1.02          | -        | 51.29         | 32.45      | 5.99       | 35.20      |

## 802.11a\_Nss1,(6Mbps)\_4TX

### 5785MHz\_TX

17/03/2018

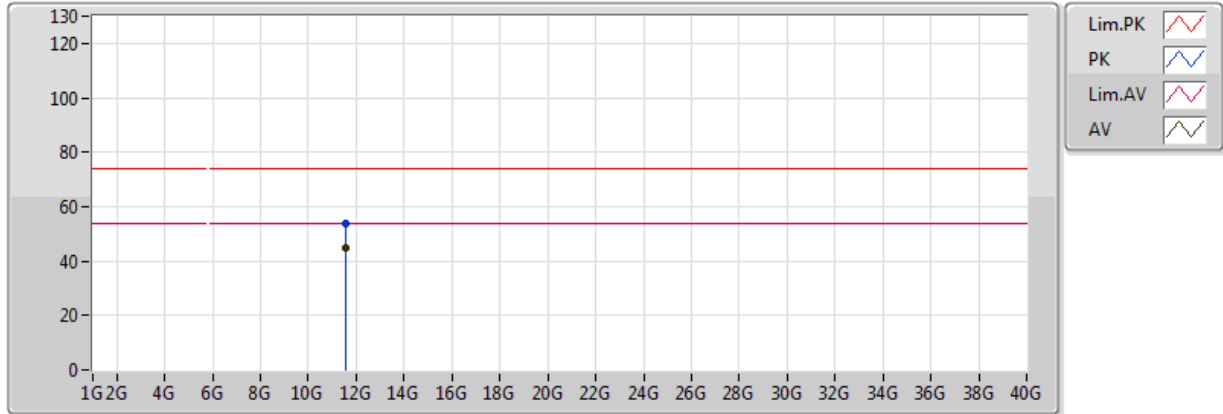


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|-----------|----------|----------|--------|--------|------|-----------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 11.57174G | 53.40    | 54.00    | -0.60  | 12.36  | 3    | Vertical  | 347     | 1.03   | -        | 41.04  | 39.44 | 8.42 | 35.49 |
| PK   | 11.5724G  | 64.50    | 74.00    | -9.50  | 12.36  | 3    | Vertical  | 347     | 1.03   | -        | 52.14  | 39.44 | 8.42 | 35.49 |

## 802.11a\_Nss1,(6Mbps)\_4TX

### 5785MHz\_TX

17/03/2018

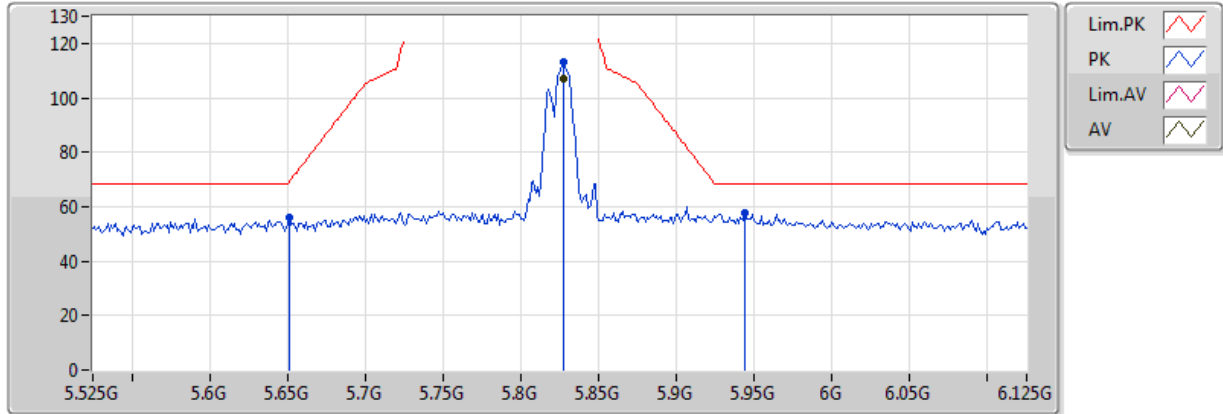


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 11.57186G    | 44.62             | 54.00             | -9.38          | 12.36          | 3           | Horizontal | 358            | 2.19          | -        | 32.26         | 39.44      | 8.42       | 35.49      |
| PK   | 11.5733G     | 53.67             | 74.00             | -20.33         | 12.36          | 3           | Horizontal | 358            | 2.19          | -        | 41.31         | 39.44      | 8.42       | 35.49      |

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5825MHz\_TX

17/03/2018

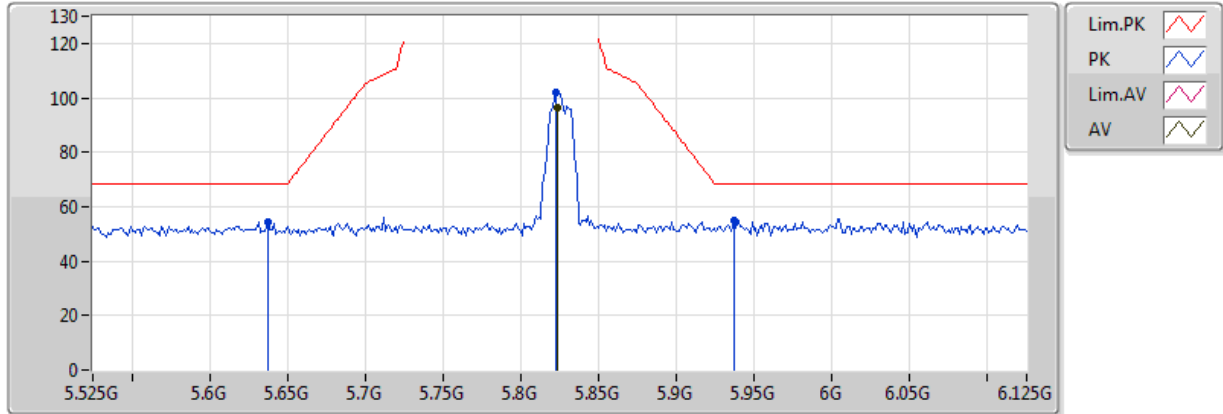


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.8274G      | 107.16            | Inf               | -Inf           | 3.00           | 3           | Vertical  | 322            | 1.07          | -        | 104.16        | 32.29      | 5.90       | 35.19      |
| PK   | 5.651G       | 56.24             | 68.94             | -12.70         | 2.68           | 3           | Vertical  | 322            | 1.07          | -        | 53.56         | 32.08      | 5.78       | 35.18      |
| PK   | 5.8274G      | 113.19            | Inf               | -Inf           | 3.00           | 3           | Vertical  | 322            | 1.07          | -        | 110.19        | 32.29      | 5.90       | 35.19      |
| PK   | 5.9438G      | 57.81             | 68.20             | -10.39         | 3.22           | 3           | Vertical  | 322            | 1.07          | -        | 54.59         | 32.43      | 5.98       | 35.19      |

## 802.11a\_Nss1,(6Mbps)\_4TX

### 5825MHz\_TX

17/03/2018

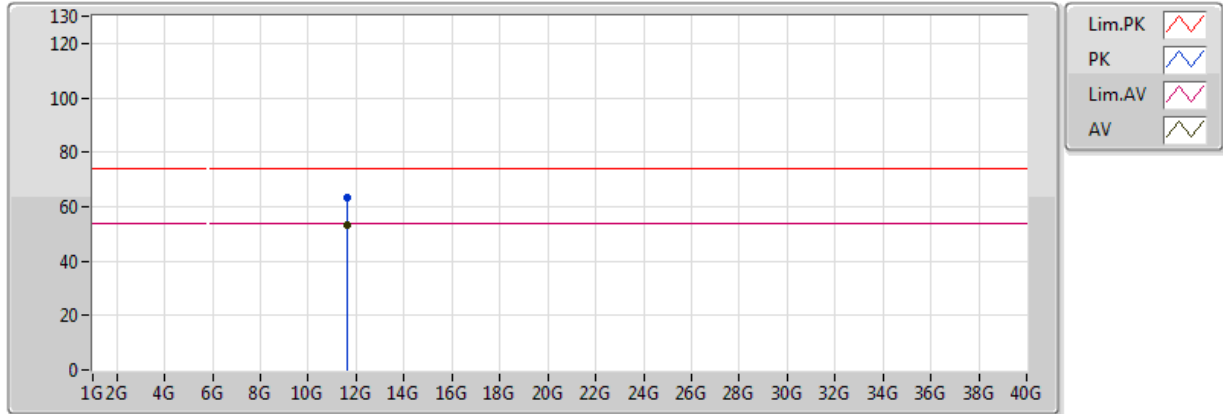


| Type | Freq    | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|---------|----------|----------|--------|--------|------|------------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)    | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 5.8238G | 96.15    | Inf      | -Inf   | 3.00   | 3    | Horizontal | 37      | 2.34   | -        | 93.15  | 32.29 | 5.90 | 35.19 |
| PK   | 5.6378G | 54.37    | 68.20    | -13.83 | 2.66   | 3    | Horizontal | 37      | 2.34   | -        | 51.71  | 32.07 | 5.77 | 35.18 |
| PK   | 5.8226G | 102.13   | Inf      | -Inf   | 2.99   | 3    | Horizontal | 37      | 2.34   | -        | 99.14  | 32.29 | 5.90 | 35.19 |
| PK   | 5.9366G | 55.09    | 68.20    | -13.11 | 3.21   | 3    | Horizontal | 37      | 2.34   | -        | 51.88  | 32.42 | 5.98 | 35.19 |

## 802.11a\_Nss1,(6Mbps)\_4TX

### 5825MHz\_TX

17/03/2018

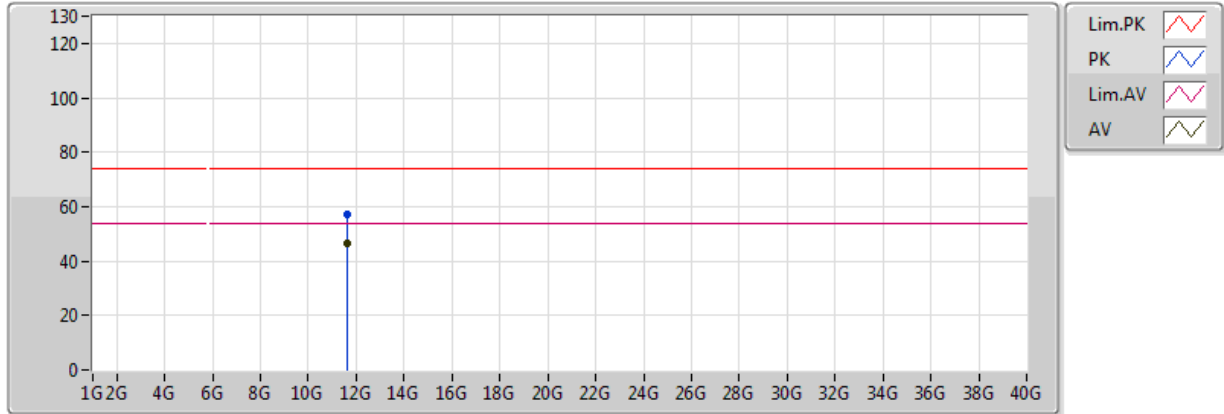


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 11.65116G    | 53.21             | 54.00             | -0.79          | 12.27          | 3           | Vertical  | 347            | 1.01          | -        | 40.94         | 39.32      | 8.46       | 35.51      |
| PK   | 11.6518G     | 63.48             | 74.00             | -10.52         | 12.27          | 3           | Vertical  | 347            | 1.01          | -        | 51.21         | 39.32      | 8.46       | 35.51      |

# 802.11a\_Nss1,(6Mbps)\_4TX

## 5825MHz\_TX

17/03/2018

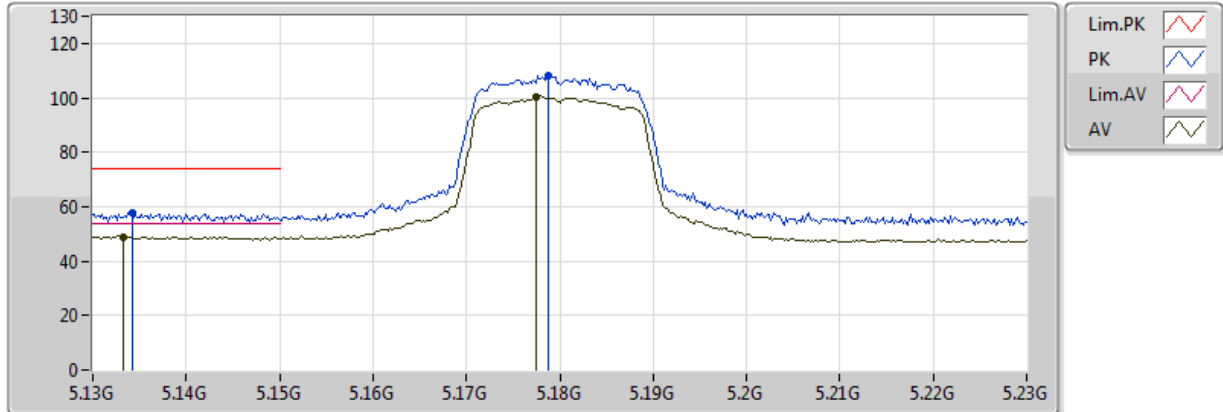


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|-----------|----------|----------|--------|--------|------|------------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 11.65188G | 46.37    | 54.00    | -7.63  | 12.27  | 3    | Horizontal | 16      | 1.03   | -        | 34.10  | 39.32 | 8.46 | 35.51 |
| PK   | 11.65208G | 56.89    | 74.00    | -17.11 | 12.27  | 3    | Horizontal | 16      | 1.03   | -        | 44.62  | 39.32 | 8.46 | 35.51 |

## 802.11ac VHT20\_Nss1,(MCS0)\_4TX

## 5180MHz\_TX

17/03/2018

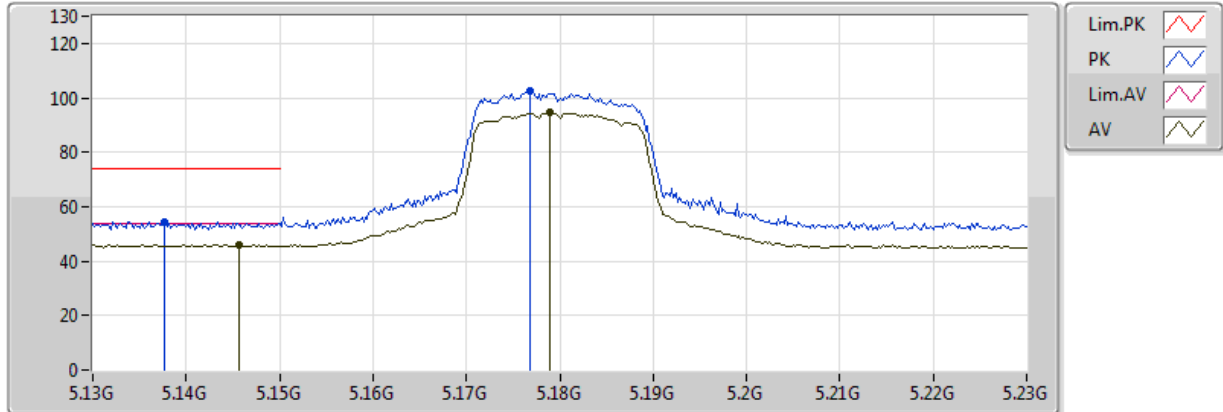


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.1332G      | 49.01             | 54.00             | -4.99          | 1.81           | 3           | Vertical  | 356            | 1.10          | -        | 47.20         | 31.61      | 5.41       | 35.21      |
| AV   | 5.1774G      | 100.46            | Inf               | -Inf           | 1.88           | 3           | Vertical  | 356            | 1.10          | -        | 98.58         | 31.64      | 5.44       | 35.20      |
| PK   | 5.1342G      | 57.67             | 74.00             | -16.33         | 1.81           | 3           | Vertical  | 356            | 1.10          | -        | 55.86         | 31.61      | 5.41       | 35.21      |
| PK   | 5.1788G      | 108.35            | Inf               | -Inf           | 1.89           | 3           | Vertical  | 356            | 1.10          | -        | 106.46        | 31.64      | 5.45       | 35.20      |

# 802.11ac VHT20\_Nss1,(MCS0)\_4TX

## 5180MHz\_TX

17/03/2018

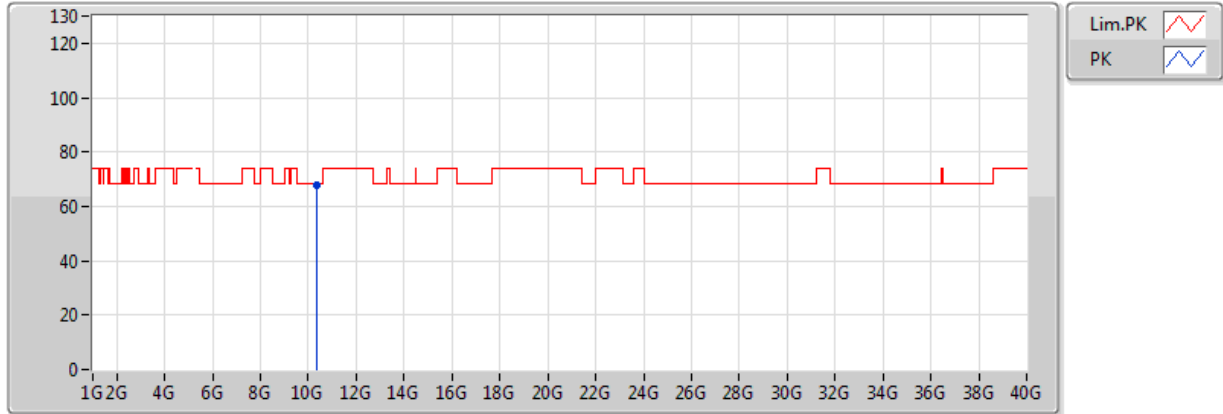


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.1456G      | 45.89             | 54.00             | -8.11          | 1.83           | 3           | Horizontal | 313            | 1.05          | -        | 44.06         | 31.62      | 5.42       | 35.21      |
| AV   | 5.179G       | 94.66             | Inf               | -Inf           | 1.89           | 3           | Horizontal | 313            | 1.05          | -        | 92.77         | 31.64      | 5.45       | 35.20      |
| PK   | 5.1376G      | 54.38             | 74.00             | -19.62         | 1.82           | 3           | Horizontal | 313            | 1.05          | -        | 52.56         | 31.61      | 5.42       | 35.21      |
| PK   | 5.1768G      | 102.47            | Inf               | -Inf           | 1.88           | 3           | Horizontal | 313            | 1.05          | -        | 100.59        | 31.64      | 5.44       | 35.20      |

## 802.11ac VHT20\_Nss1,(MCS0)\_4TX

### 5180MHz\_TX

17/03/2018

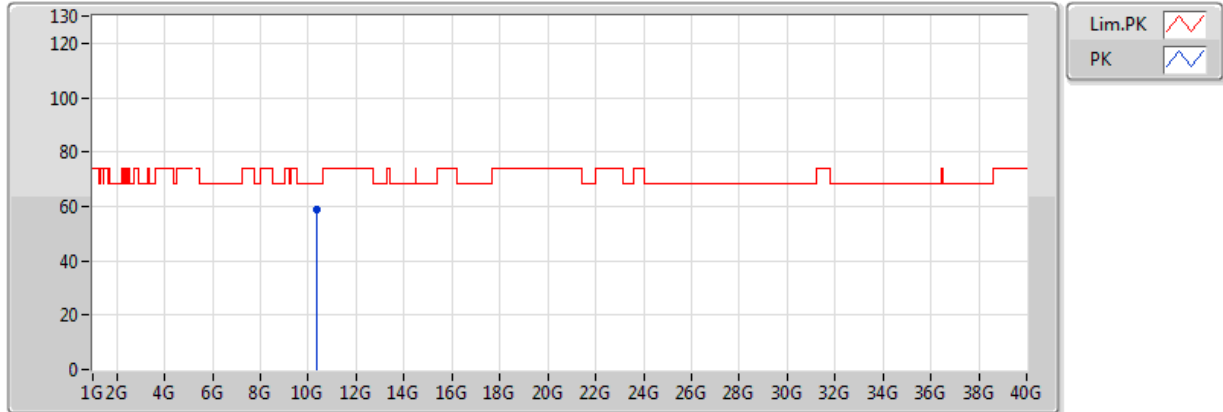


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|-----------|----------|----------|--------|--------|------|-----------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| PK   | 10.36432G | 67.92    | 68.20    | -0.28  | 11.61  | 3    | Vertical  | 238     | 1.03   | -        | 56.31  | 39.41 | 8.00 | 35.81 |

## 802.11ac VHT20\_Nss1,(MCS0)\_4TX

### 5180MHz\_TX

17/03/2018

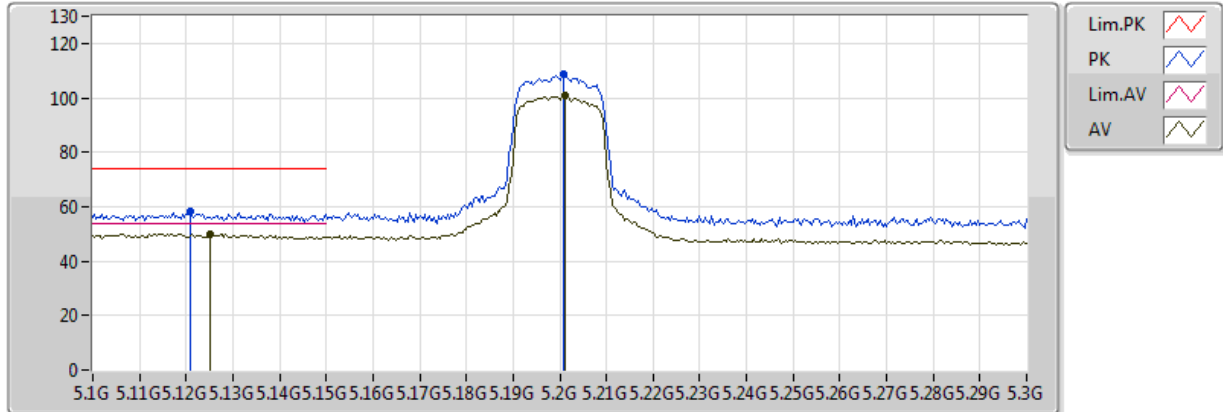


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| PK   | 10.36228G    | 58.77             | 68.20             | -9.43          | 11.60          | 3           | Horizontal | 181            | 1.05          | -        | 47.17         | 39.41      | 8.00       | 35.81      |

# 802.11ac VHT20\_Nss1,(MCS0)\_4TX

## 5200MHz\_TX

17/03/2018

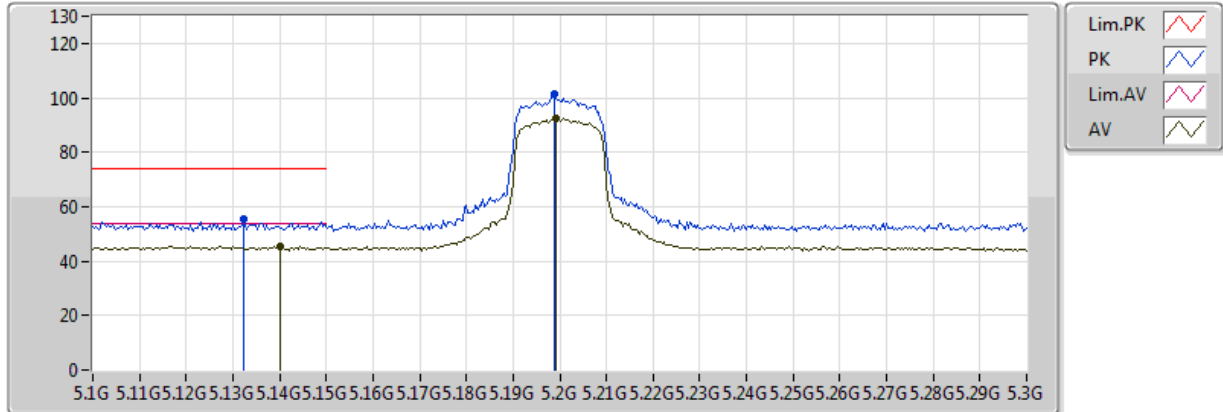


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.1252G      | 50.08             | 54.00             | -3.92          | 1.80           | 3           | Vertical  | 360            | 1.22          | -        | 48.28         | 31.60      | 5.41       | 35.21      |
| AV   | 5.2012G      | 100.67            | Inf               | -Inf           | 1.92           | 3           | Vertical  | 360            | 1.22          | -        | 98.75         | 31.66      | 5.46       | 35.20      |
| PK   | 5.1208G      | 58.27             | 74.00             | -15.73         | 1.79           | 3           | Vertical  | 360            | 1.22          | -        | 56.48         | 31.60      | 5.40       | 35.21      |
| PK   | 5.2008G      | 108.58            | Inf               | -Inf           | 1.92           | 3           | Vertical  | 360            | 1.22          | -        | 106.66        | 31.66      | 5.46       | 35.20      |

# 802.11ac VHT20\_Nss1,(MCS0)\_4TX

## 5200MHz\_TX

17/03/2018

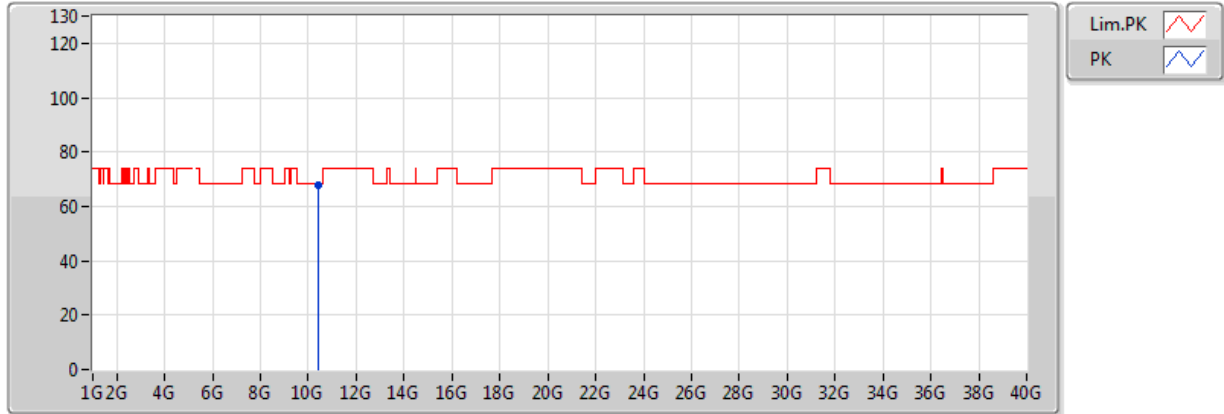


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.14G        | 45.47             | 54.00             | -8.53          | 1.82           | 3           | Horizontal | 325            | 1.04          | -        | 43.65         | 31.61      | 5.42       | 35.21      |
| AV   | 5.1992G      | 92.36             | Inf               | -Inf           | 1.92           | 3           | Horizontal | 325            | 1.04          | -        | 90.44         | 31.66      | 5.46       | 35.20      |
| PK   | 5.1324G      | 55.36             | 74.00             | -18.64         | 1.81           | 3           | Horizontal | 325            | 1.04          | -        | 53.55         | 31.61      | 5.41       | 35.21      |
| PK   | 5.1988G      | 101.45            | Inf               | -Inf           | 1.92           | 3           | Horizontal | 325            | 1.04          | -        | 99.53         | 31.66      | 5.46       | 35.20      |

# 802.11ac VHT20\_Nss1,(MCS0)\_4TX

## 5200MHz\_TX

17/03/2018

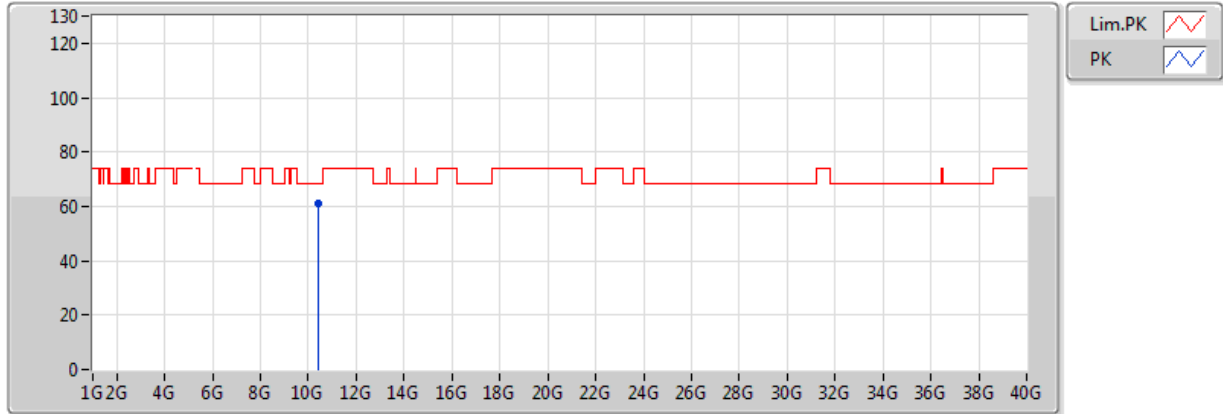


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| PK   | 10.39832G    | 67.70             | 68.20             | -0.50          | 11.68          | 3           | Vertical  | 342            | 1.05          | -        | 56.02         | 39.46      | 8.01       | 35.78      |

# 802.11ac VHT20\_Nss1,(MCS0)\_4TX

## 5200MHz\_TX

17/03/2018

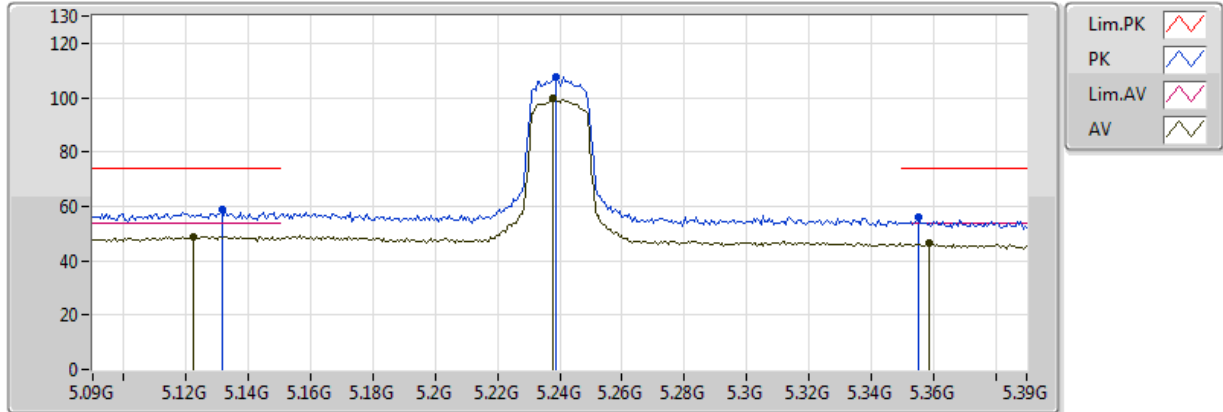


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| PK   | 10.39946G    | 61.20             | 68.20             | -7.00          | 11.68          | 3           | Horizontal | 181            | 1.00          | -        | 49.52         | 39.46      | 8.01       | 35.78      |

## 802.11ac VHT20\_Nss1,(MCS0)\_4TX

## 5240MHz\_TX

17/03/2018

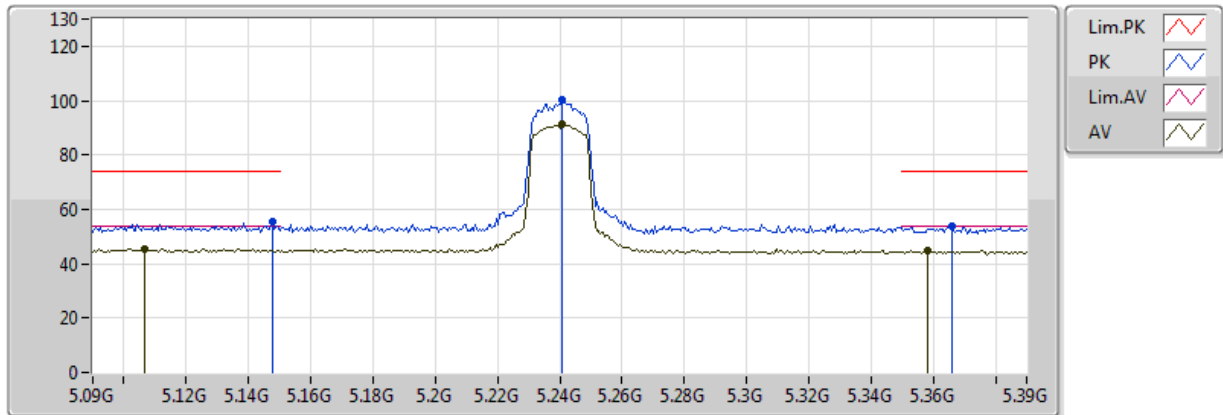


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.1224G      | 49.01             | 54.00             | -4.99          | 1.80           | 3           | Vertical  | 98             | 1.38          | -        | 47.21         | 31.60      | 5.41       | 35.21      |
| AV   | 5.2376G      | 99.55             | Inf               | -Inf           | 1.98           | 3           | Vertical  | 98             | 1.38          | -        | 97.57         | 31.69      | 5.49       | 35.20      |
| AV   | 5.3588G      | 46.29             | 54.00             | -7.71          | 2.18           | 3           | Vertical  | 98             | 1.38          | -        | 44.11         | 31.79      | 5.57       | 35.18      |
| PK   | 5.1314G      | 58.70             | 74.00             | -15.30         | 1.81           | 3           | Vertical  | 98             | 1.38          | -        | 56.89         | 31.61      | 5.41       | 35.21      |
| PK   | 5.2388G      | 107.83            | Inf               | -Inf           | 1.98           | 3           | Vertical  | 98             | 1.38          | -        | 105.85        | 31.69      | 5.49       | 35.20      |
| PK   | 5.3552G      | 55.94             | 74.00             | -18.06         | 2.17           | 3           | Vertical  | 98             | 1.38          | -        | 53.77         | 31.78      | 5.57       | 35.18      |

## 802.11ac VHT20\_Nss1,(MCS0)\_4TX

## 5240MHz\_TX

17/03/2018

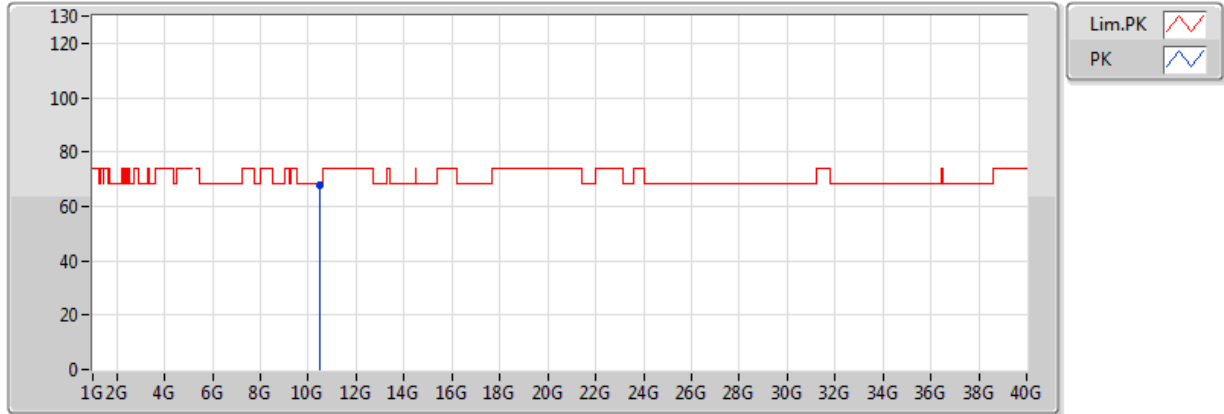


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.1068G      | 45.48             | 54.00             | -8.52          | 1.77           | 3           | Horizontal | 348            | 1.58          | -        | 43.71         | 31.59      | 5.39       | 35.21      |
| AV   | 5.2406G      | 91.22             | Inf               | -Inf           | 1.98           | 3           | Horizontal | 348            | 1.58          | -        | 89.24         | 31.69      | 5.49       | 35.20      |
| AV   | 5.3582G      | 44.68             | 54.00             | -9.32          | 2.18           | 3           | Horizontal | 348            | 1.58          | -        | 42.50         | 31.79      | 5.57       | 35.18      |
| PK   | 5.1476G      | 55.26             | 74.00             | -18.74         | 1.83           | 3           | Horizontal | 348            | 1.58          | -        | 53.43         | 31.62      | 5.42       | 35.21      |
| PK   | 5.2406G      | 100.09            | Inf               | -Inf           | 1.98           | 3           | Horizontal | 348            | 1.58          | -        | 98.11         | 31.69      | 5.49       | 35.20      |
| PK   | 5.366G       | 54.00             | 74.00             | -20.00         | 2.19           | 3           | Horizontal | 348            | 1.58          | -        | 51.81         | 31.79      | 5.58       | 35.18      |

# 802.11ac VHT20\_Nss1,(MCS0)\_4TX

## 5240MHz\_TX

17/03/2018

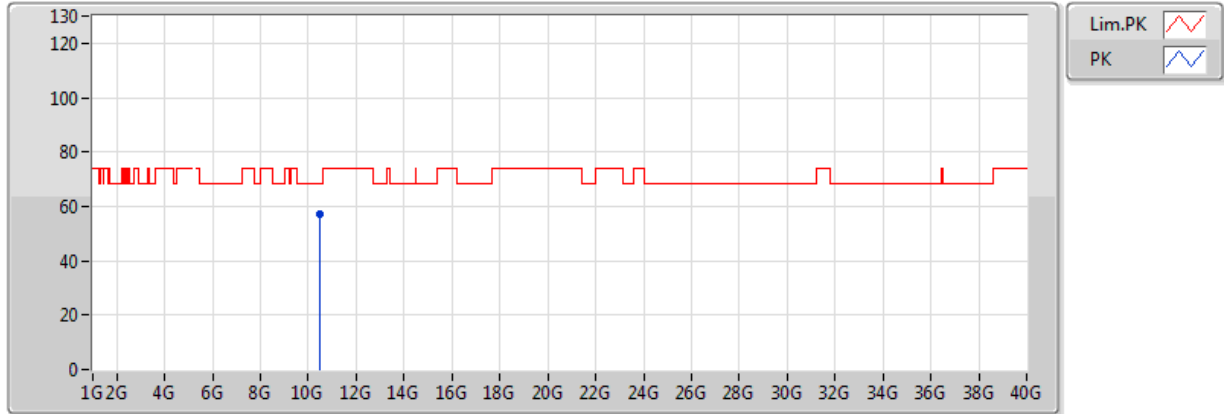


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| PK   | 10.48438G    | 67.75             | 68.20             | -0.45          | 11.87          | 3           | Vertical  | 235            | 1.00          | -        | 55.88         | 39.58      | 8.02       | 35.73      |

# 802.11ac VHT20\_Nss1,(MCS0)\_4TX

## 5240MHz\_TX

17/03/2018

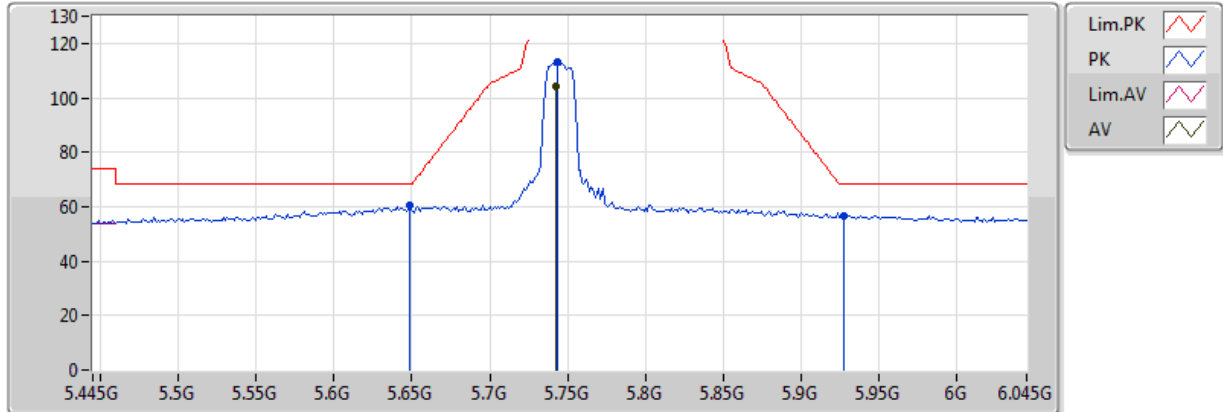


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|-----------|----------|----------|--------|--------|------|------------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| PK   | 10.48438G | 57.14    | 68.20    | -11.06 | 11.87  | 3    | Horizontal | 178     | 1.73   | -        | 45.27  | 39.58 | 8.02 | 35.73 |

## 802.11ac VHT20\_Nss1,(MCS0)\_4TX

### 5745MHz\_TX

17/03/2018

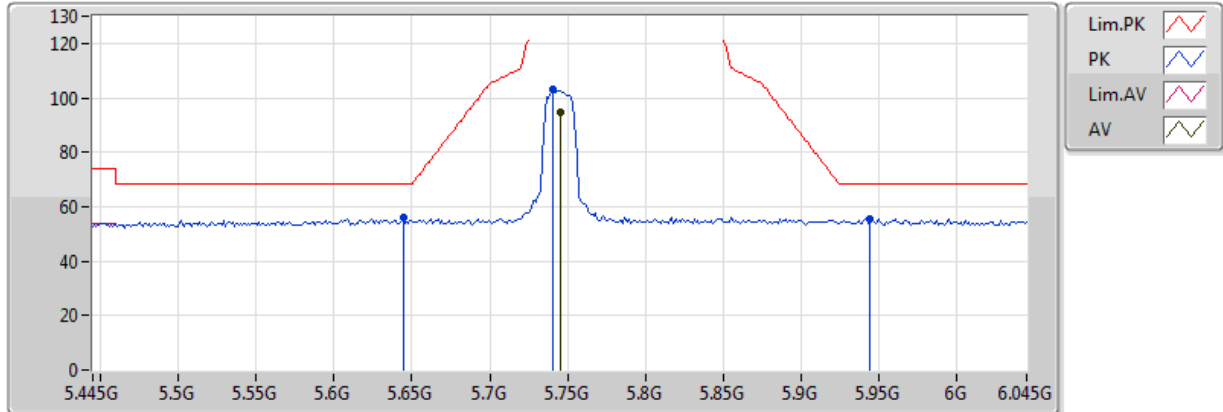


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.7426G      | 104.47            | Inf               | -Inf           | 2.85           | 3           | Vertical  | 337            | 2.70          | -        | 101.62        | 32.19      | 5.84       | 35.18      |
| PK   | 5.649G       | 60.30             | 68.20             | -7.90          | 2.67           | 3           | Vertical  | 337            | 2.70          | -        | 57.63         | 32.08      | 5.77       | 35.18      |
| PK   | 5.7438G      | 112.94            | Inf               | -Inf           | 2.85           | 3           | Vertical  | 337            | 2.70          | -        | 110.09        | 32.19      | 5.84       | 35.18      |
| PK   | 5.9274G      | 56.73             | 68.20             | -11.47         | 3.19           | 3           | Vertical  | 337            | 2.70          | -        | 53.54         | 32.41      | 5.97       | 35.19      |

# 802.11ac VHT20\_Nss1,(MCS0)\_4TX

## 5745MHz\_TX

17/03/2018

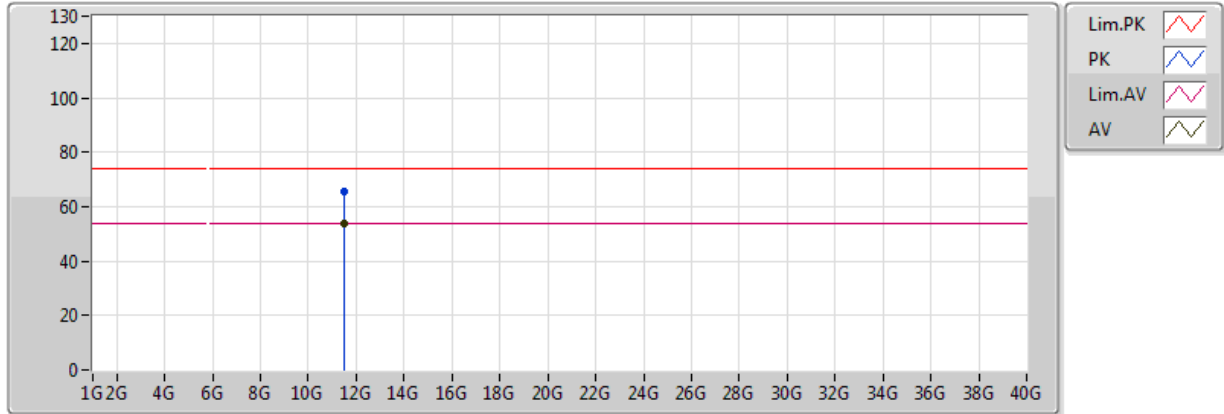


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.745G       | 94.94             | Inf               | -Inf           | 2.85           | 3           | Horizontal | 343            | 1.00          | -        | 92.09         | 32.19      | 5.84       | 35.18      |
| PK   | 5.6442G      | 55.76             | 68.20             | -12.44         | 2.66           | 3           | Horizontal | 343            | 1.00          | -        | 53.10         | 32.07      | 5.77       | 35.18      |
| PK   | 5.7402G      | 102.95            | Inf               | -Inf           | 2.84           | 3           | Horizontal | 343            | 1.00          | -        | 100.11        | 32.19      | 5.84       | 35.18      |
| PK   | 5.9442G      | 55.49             | 68.20             | -12.71         | 3.22           | 3           | Horizontal | 343            | 1.00          | -        | 52.27         | 32.43      | 5.98       | 35.19      |

# 802.11ac VHT20\_Nss1,(MCS0)\_4TX

## 5745MHz\_TX

17/03/2018

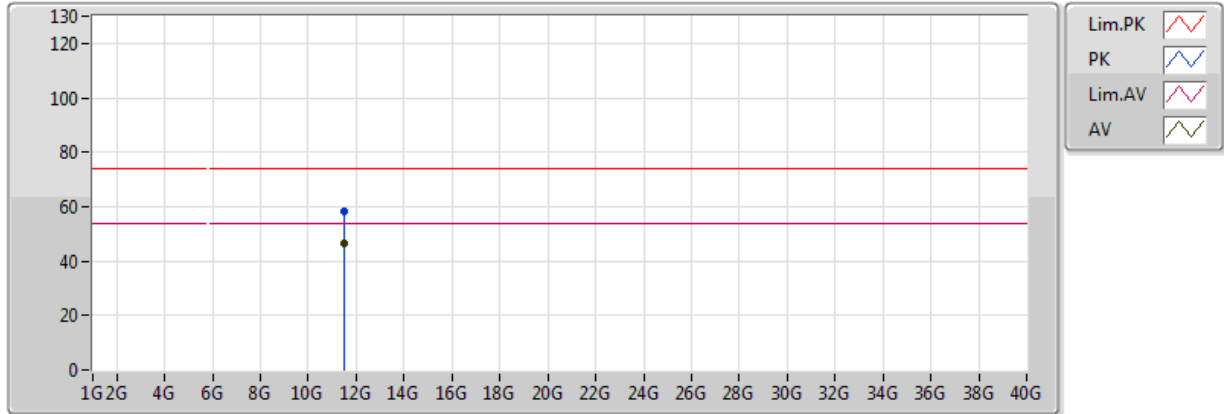


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 11.4912G     | 53.61             | 54.00             | -0.39          | 12.45          | 3           | Vertical  | 345            | 1.74          | -        | 41.16         | 39.56      | 8.37       | 35.48      |
| PK   | 11.48946G    | 65.58             | 74.00             | -8.42          | 12.46          | 3           | Vertical  | 345            | 1.74          | -        | 53.12         | 39.57      | 8.37       | 35.48      |

# 802.11ac VHT20\_Nss1,(MCS0)\_4TX

## 5745MHz\_TX

17/03/2018

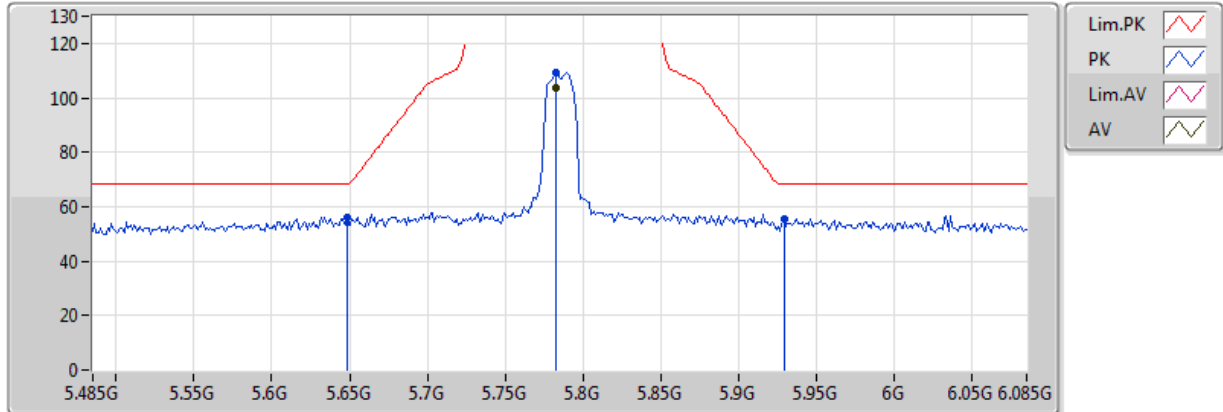


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|-----------|----------|----------|--------|--------|------|------------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 11.49126G | 46.68    | 54.00    | -7.32  | 12.45  | 3    | Horizontal | 138     | 1.91   | -        | 34.23  | 39.56 | 8.37 | 35.48 |
| PK   | 11.49108G | 58.23    | 74.00    | -15.77 | 12.46  | 3    | Horizontal | 138     | 1.91   | -        | 45.77  | 39.56 | 8.37 | 35.48 |

### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

### 5785MHz\_TX

17/03/2018

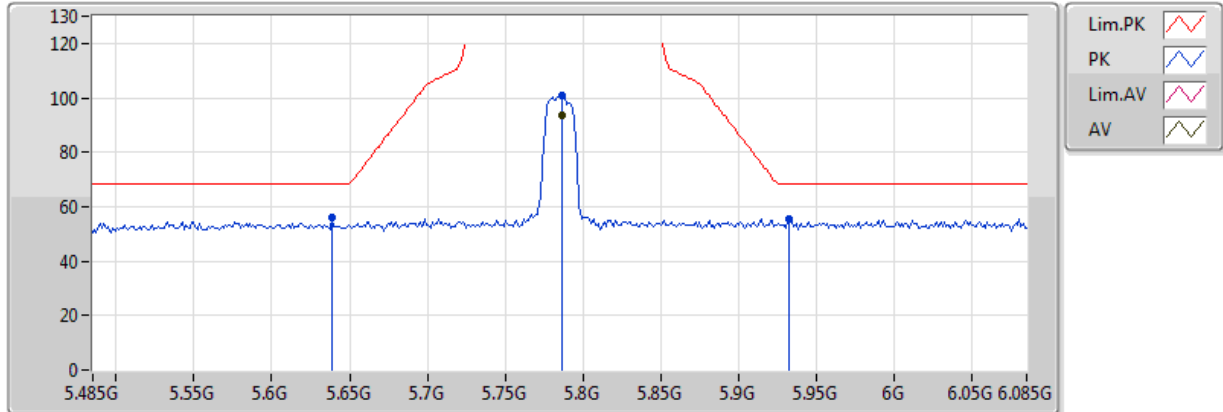


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.7826G      | 103.68            | Inf               | -Inf           | 2.92           | 3           | Vertical  | 322            | 1.09          | -        | 100.76        | 32.24      | 5.87       | 35.19      |
| PK   | 5.6482G      | 56.26             | 68.20             | -11.94         | 2.67           | 3           | Vertical  | 322            | 1.09          | -        | 53.59         | 32.08      | 5.77       | 35.18      |
| PK   | 5.7826G      | 109.41            | Inf               | -Inf           | 2.92           | 3           | Vertical  | 322            | 1.09          | -        | 106.49        | 32.24      | 5.87       | 35.19      |
| PK   | 5.929G       | 55.60             | 68.20             | -12.60         | 3.19           | 3           | Vertical  | 322            | 1.09          | -        | 52.41         | 32.41      | 5.97       | 35.19      |

## 802.11ac VHT20\_Nss1,(MCS0)\_4TX

### 5785MHz\_TX

17/03/2018

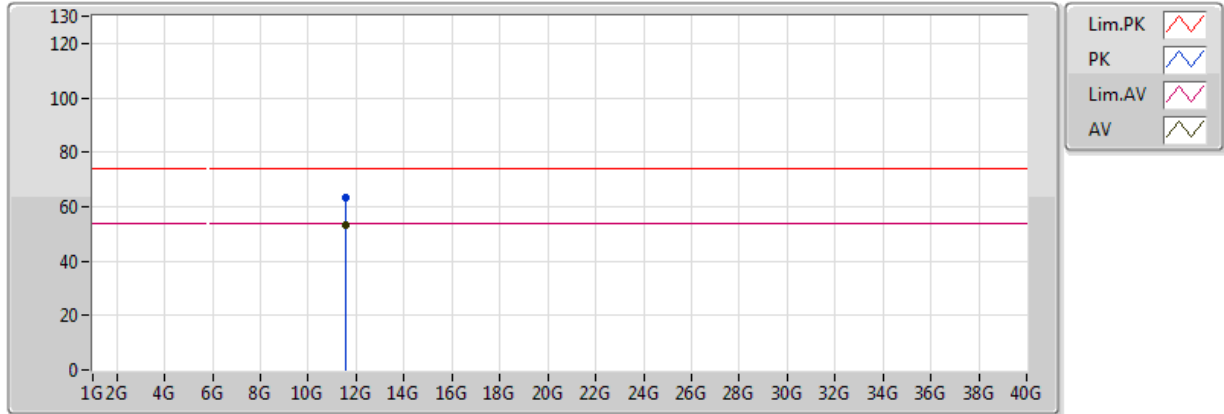


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.7862G      | 93.84             | Inf               | -Inf           | 2.93           | 3           | Horizontal | 342            | 1.00          | -        | 90.91         | 32.24      | 5.87       | 35.19      |
| PK   | 5.6386G      | 55.94             | 68.20             | -12.26         | 2.66           | 3           | Horizontal | 342            | 1.00          | -        | 53.28         | 32.07      | 5.77       | 35.18      |
| PK   | 5.7862G      | 101.14            | Inf               | -Inf           | 2.93           | 3           | Horizontal | 342            | 1.00          | -        | 98.21         | 32.24      | 5.87       | 35.19      |
| PK   | 5.9326G      | 55.44             | 68.20             | -12.76         | 3.20           | 3           | Horizontal | 342            | 1.00          | -        | 52.24         | 32.42      | 5.97       | 35.19      |

# 802.11ac VHT20\_Nss1,(MCS0)\_4TX

## 5785MHz\_TX

17/03/2018

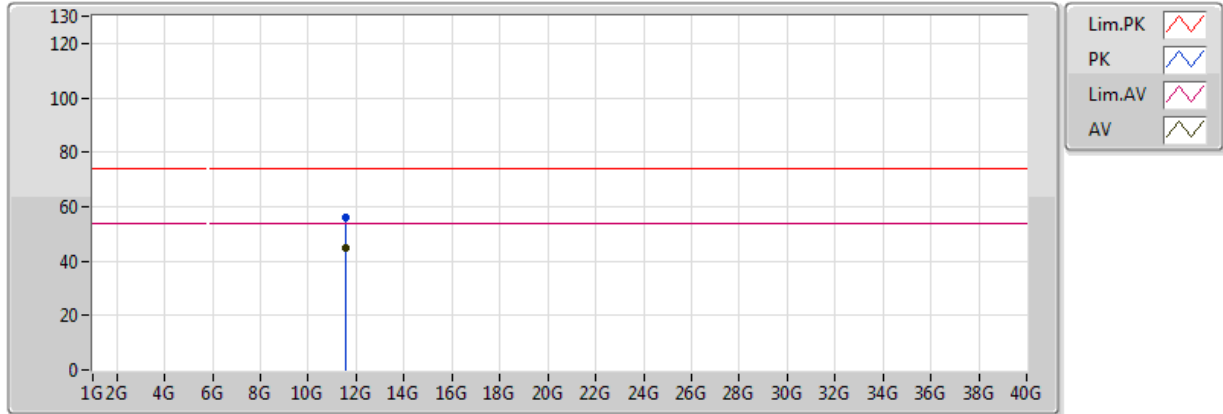


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|-----------|----------|----------|--------|--------|------|-----------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| PK   | 11.56922G | 63.58    | 74.00    | -10.42 | 12.37  | 3    | Vertical  | 104     | 1.83   | -        | 51.21  | 39.45 | 8.41 | 35.49 |
| AV   | 11.56826G | 53.45    | 54.00    | -0.55  | 12.37  | 3    | Vertical  | 104     | 1.83   | -        | 41.08  | 39.45 | 8.41 | 35.49 |

# 802.11ac VHT20\_Nss1,(MCS0)\_4TX

## 5785MHz\_TX

17/03/2018

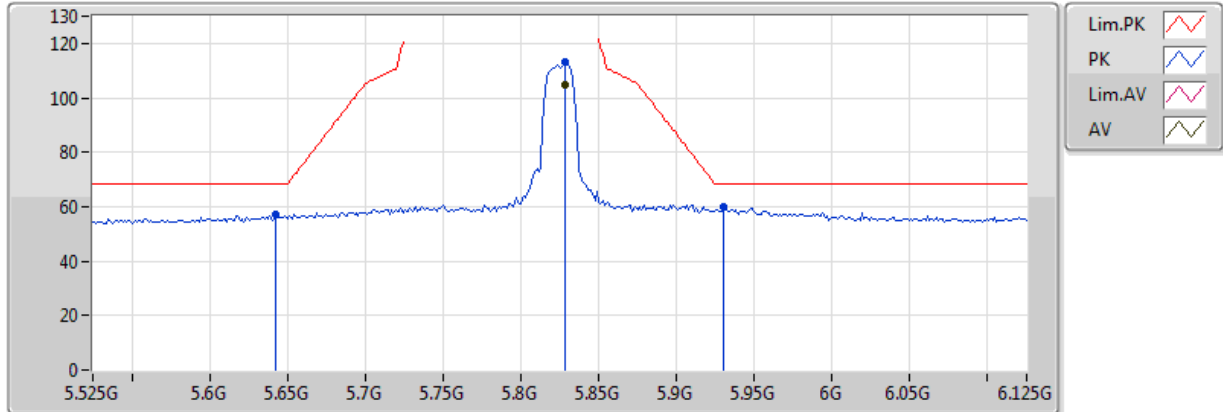


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 11.57408G    | 44.93             | 54.00             | -9.07          | 12.36          | 3           | Horizontal | 319            | 1.56          | -        | 32.57         | 39.44      | 8.42       | 35.49      |
| PK   | 11.561G      | 55.78             | 74.00             | -18.22         | 12.38          | 3           | Horizontal | 319            | 1.56          | -        | 43.40         | 39.46      | 8.41       | 35.49      |

## 802.11ac VHT20\_Nss1,(MCS0)\_4TX

### 5825MHz\_TX

17/03/2018

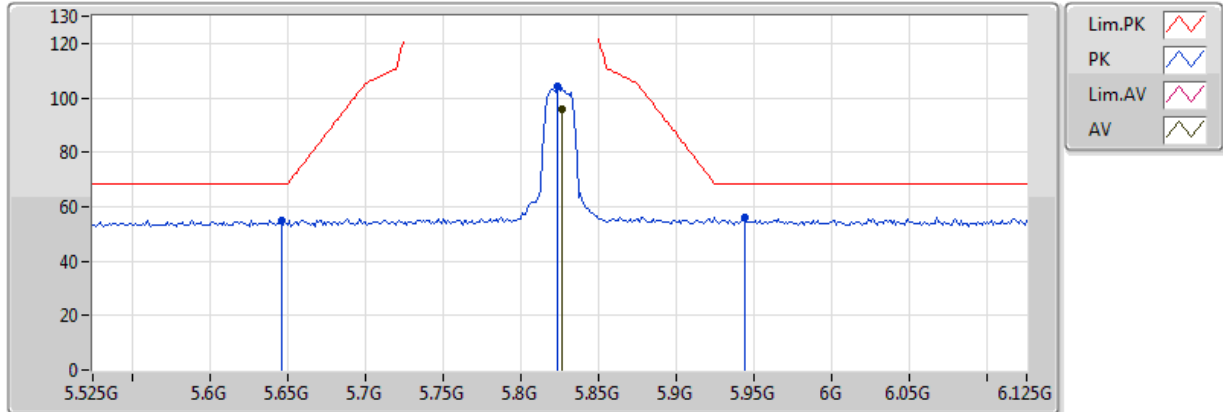


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.8286G      | 104.85            | Inf               | -Inf           | 3.00           | 3           | Vertical  | 321            | 1.06          | -        | 101.85        | 32.29      | 5.90       | 35.19      |
| PK   | 5.6426G      | 57.30             | 68.20             | -10.90         | 2.66           | 3           | Vertical  | 321            | 1.06          | -        | 54.64         | 32.07      | 5.77       | 35.18      |
| PK   | 5.8286G      | 113.18            | Inf               | -Inf           | 3.00           | 3           | Vertical  | 321            | 1.06          | -        | 110.18        | 32.29      | 5.90       | 35.19      |
| PK   | 5.9306G      | 59.72             | 68.20             | -8.48          | 3.20           | 3           | Vertical  | 321            | 1.06          | -        | 56.52         | 32.42      | 5.97       | 35.19      |

# 802.11ac VHT20\_Nss1,(MCS0)\_4TX

## 5825MHz\_TX

17/03/2018

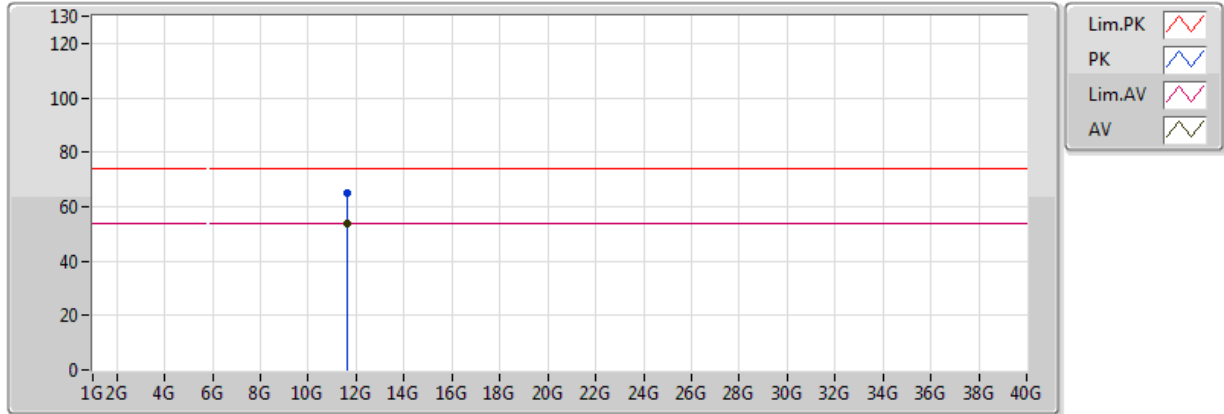


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.8262G      | 95.85             | Inf               | -Inf           | 3.00           | 3           | Horizontal | 350            | 2.68          | -        | 92.85         | 32.29      | 5.90       | 35.19      |
| PK   | 5.6462G      | 54.99             | 68.20             | -13.21         | 2.67           | 3           | Horizontal | 350            | 2.68          | -        | 52.32         | 32.08      | 5.77       | 35.18      |
| PK   | 5.8238G      | 104.13            | Inf               | -Inf           | 3.00           | 3           | Horizontal | 350            | 2.68          | -        | 101.13        | 32.29      | 5.90       | 35.19      |
| PK   | 5.9438G      | 56.18             | 68.20             | -12.02         | 3.22           | 3           | Horizontal | 350            | 2.68          | -        | 52.96         | 32.43      | 5.98       | 35.19      |

# 802.11ac VHT20\_Nss1,(MCS0)\_4TX

## 5825MHz\_TX

17/03/2018

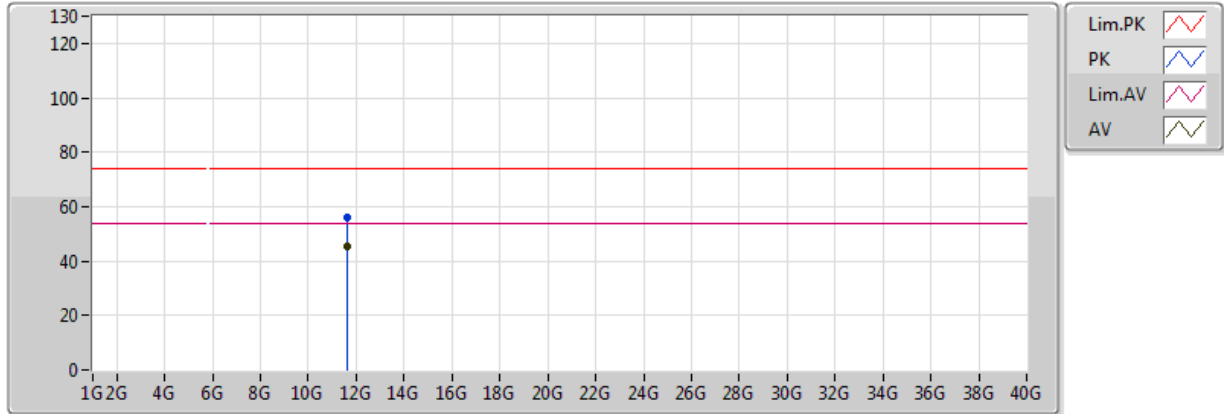


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|-----------|----------|----------|--------|--------|------|-----------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 11.64838G | 53.82    | 54.00    | -0.18  | 12.28  | 3    | Vertical  | 334     | 1.09   | -        | 41.54  | 39.33 | 8.46 | 35.51 |
| PK   | 11.64952G | 65.19    | 74.00    | -8.81  | 12.28  | 3    | Vertical  | 334     | 1.09   | -        | 52.91  | 39.33 | 8.46 | 35.51 |

# 802.11ac VHT20\_Nss1,(MCS0)\_4TX

## 5825MHz\_TX

17/03/2018

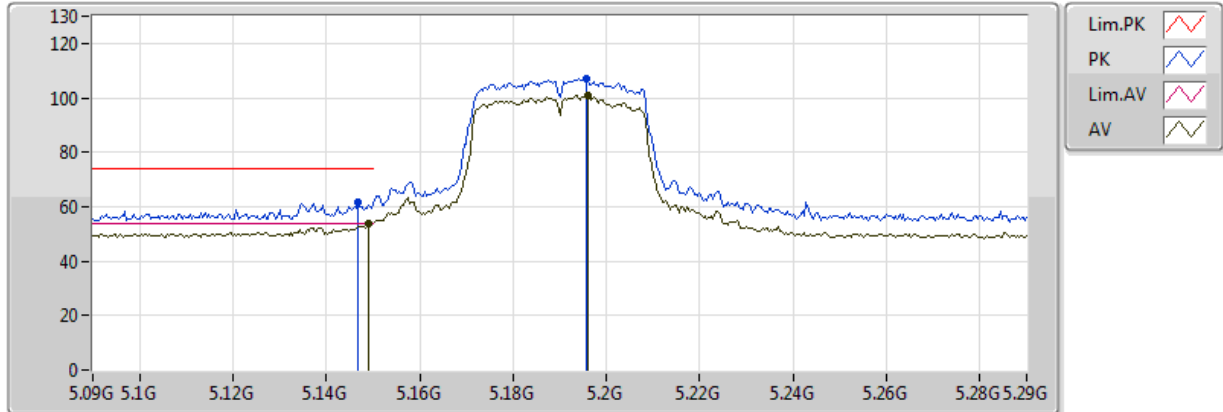


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 11.64862G    | 45.13             | 54.00             | -8.87          | 12.28          | 3           | Horizontal | 177            | 2.00          | -        | 32.85         | 39.33      | 8.46       | 35.51      |
| PK   | 11.6497G     | 56.16             | 74.00             | -17.84         | 12.28          | 3           | Horizontal | 177            | 2.00          | -        | 43.88         | 39.33      | 8.46       | 35.51      |

# 802.11ac VHT40\_Nss1,(MCS0)\_4TX

## 5190MHz\_TX

17/03/2018

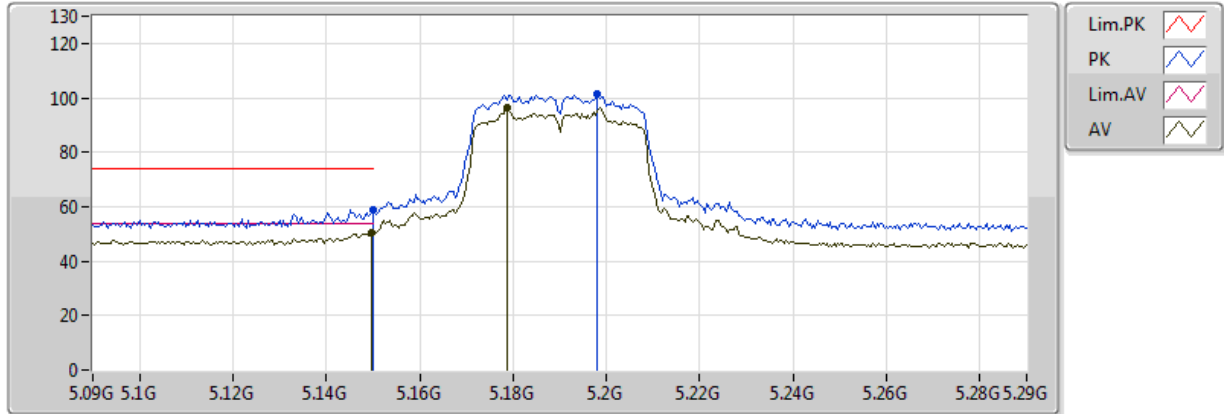


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.1492G      | 53.75             | 54.00             | -0.25          | 1.83           | 3           | Vertical  | 337            | 1.14          | -        | 51.92         | 31.62      | 5.42       | 35.21      |
| AV   | 5.196G       | 100.89            | Inf               | -Inf           | 1.91           | 3           | Vertical  | 337            | 1.14          | -        | 98.98         | 31.66      | 5.46       | 35.20      |
| PK   | 5.1468G      | 61.90             | 74.00             | -12.10         | 1.83           | 3           | Vertical  | 337            | 1.14          | -        | 60.07         | 31.62      | 5.42       | 35.21      |
| PK   | 5.1956G      | 107.23            | Inf               | -Inf           | 1.91           | 3           | Vertical  | 337            | 1.14          | -        | 105.32        | 31.66      | 5.46       | 35.20      |

# 802.11ac VHT40\_Nss1,(MCS0)\_4TX

## 5190MHz\_TX

17/03/2018

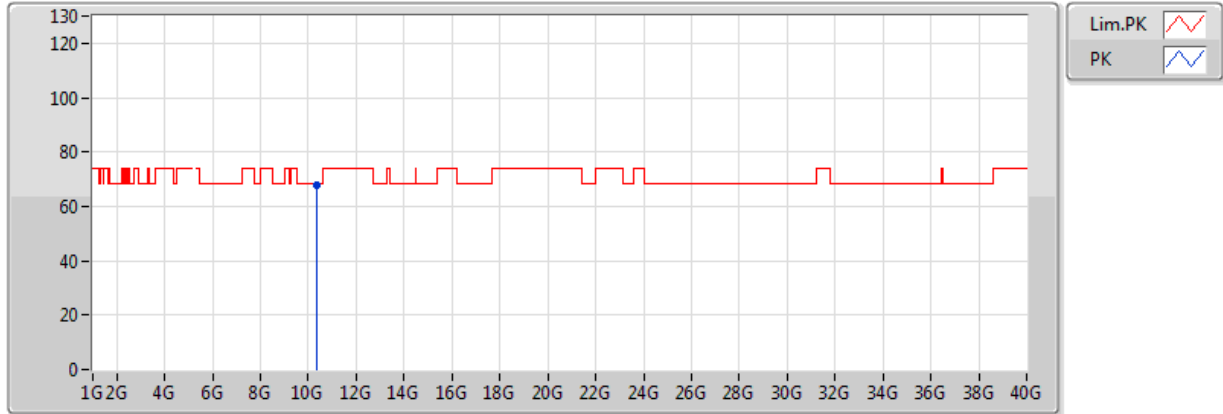


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.1496G      | 50.47             | 54.00             | -3.53          | 1.83           | 3           | Horizontal | 310            | 1.04          | -        | 48.64         | 31.62      | 5.42       | 35.21      |
| AV   | 5.1788G      | 96.19             | Inf               | -Inf           | 1.89           | 3           | Horizontal | 310            | 1.04          | -        | 94.30         | 31.64      | 5.45       | 35.20      |
| PK   | 5.149995G    | 58.73             | 74.00             | -15.27         | 1.83           | 3           | Horizontal | 310            | 1.04          | -        | 56.90         | 31.62      | 5.42       | 35.21      |
| PK   | 5.198G       | 101.23            | Inf               | -Inf           | 1.92           | 3           | Horizontal | 310            | 1.04          | -        | 99.31         | 31.66      | 5.46       | 35.20      |

## 802.11ac VHT40\_Nss1,(MCS0)\_4TX

### 5190MHz\_TX

17/03/2018

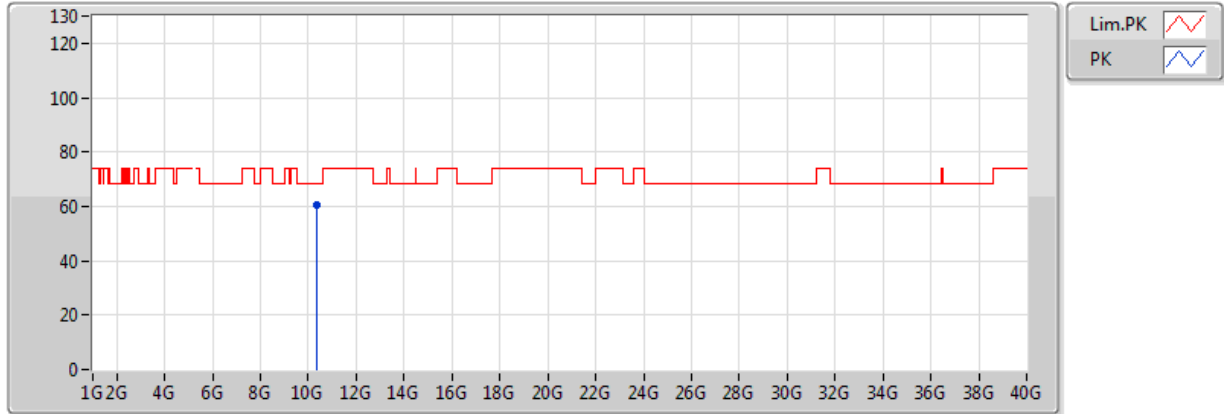


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| PK   | 10.3776G     | 67.78             | 68.20             | -0.42          | 11.63          | 3           | Vertical  | 337            | 1.00          | -        | 56.15         | 39.43      | 8.00       | 35.80      |

# 802.11ac VHT40\_Nss1,(MCS0)\_4TX

## 5190MHz\_TX

17/03/2018

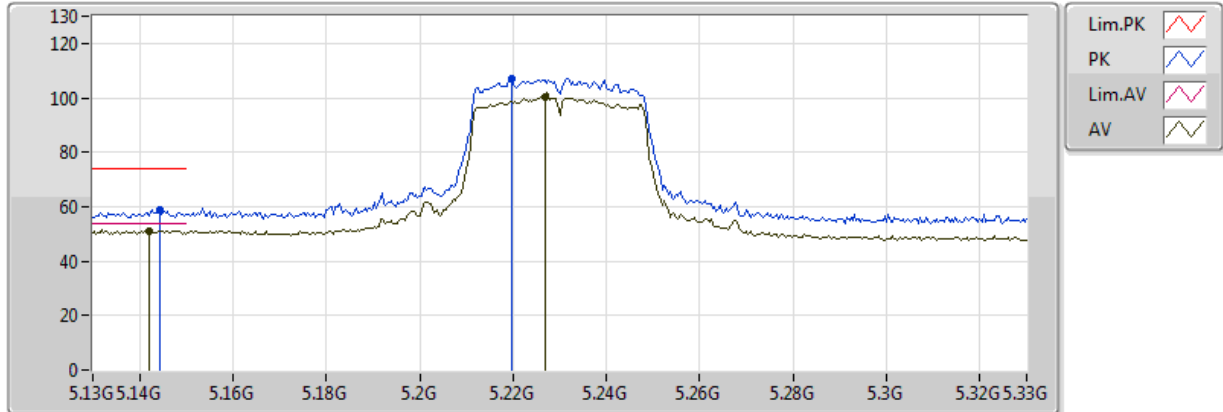


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| PK   | 10.37994G    | 60.77             | 68.20             | -7.43          | 11.64          | 3           | Horizontal | 176            | 2.30          | -        | 49.13         | 39.43      | 8.00       | 35.80      |

# 802.11ac VHT40\_Nss1,(MCS0)\_4TX

## 5230MHz\_TX

17/03/2018

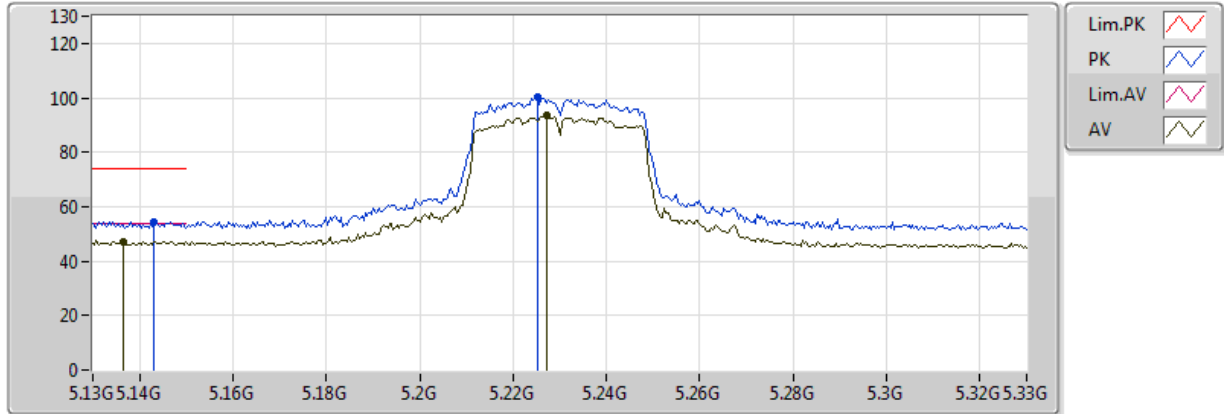


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.142G       | 51.01             | 54.00             | -2.99          | 1.82           | 3           | Vertical  | 340            | 1.01          | -        | 49.19         | 31.61      | 5.42       | 35.21      |
| AV   | 5.2268G      | 100.56            | Inf               | -Inf           | 1.96           | 3           | Vertical  | 340            | 1.01          | -        | 98.60         | 31.68      | 5.48       | 35.20      |
| PK   | 5.1444G      | 58.82             | 74.00             | -15.18         | 1.83           | 3           | Vertical  | 340            | 1.01          | -        | 56.99         | 31.62      | 5.42       | 35.21      |
| PK   | 5.2196G      | 106.89            | Inf               | -Inf           | 1.95           | 3           | Vertical  | 340            | 1.01          | -        | 104.94        | 31.68      | 5.47       | 35.20      |

# 802.11ac VHT40\_Nss1,(MCS0)\_4TX

## 5230MHz\_TX

17/03/2018

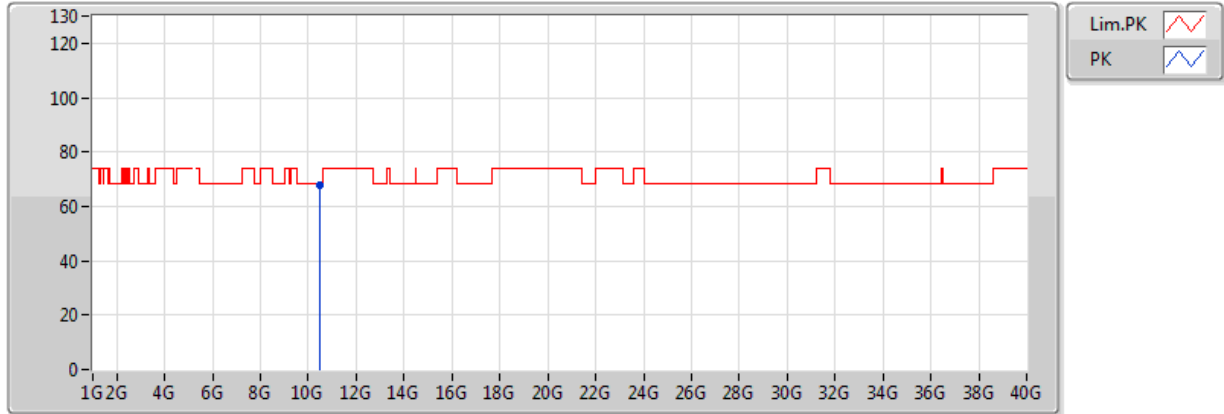


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.1364G      | 47.21             | 54.00             | -6.79          | 1.82           | 3           | Horizontal | 308            | 2.90          | -        | 45.39         | 31.61      | 5.42       | 35.21      |
| AV   | 5.2272G      | 93.75             | Inf               | -Inf           | 1.96           | 3           | Horizontal | 308            | 2.90          | -        | 91.79         | 31.68      | 5.48       | 35.20      |
| PK   | 5.1432G      | 54.54             | 74.00             | -19.46         | 1.82           | 3           | Horizontal | 308            | 2.90          | -        | 52.72         | 31.61      | 5.42       | 35.21      |
| PK   | 5.2252G      | 100.43            | Inf               | -Inf           | 1.96           | 3           | Horizontal | 308            | 2.90          | -        | 98.47         | 31.68      | 5.48       | 35.20      |

# 802.11ac VHT40\_Nss1,(MCS0)\_4TX

## 5230MHz\_TX

17/03/2018

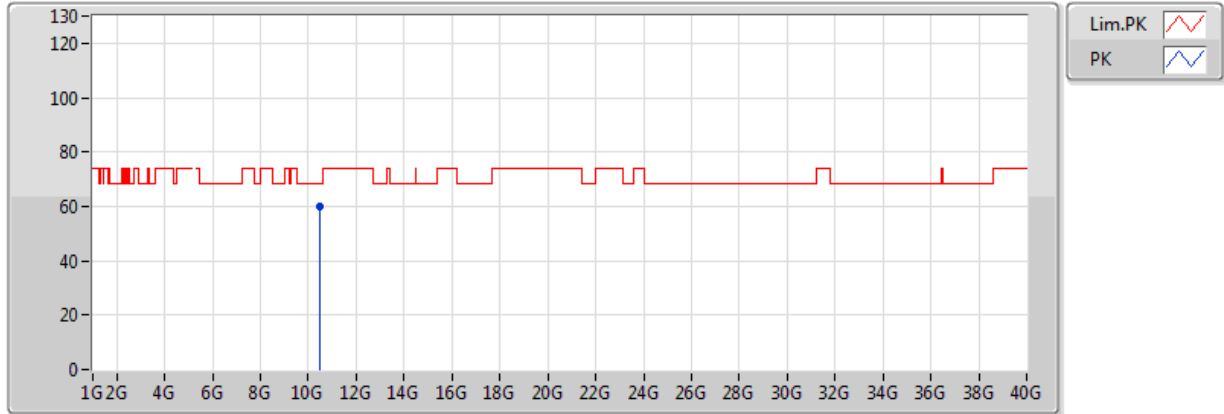


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| PK   | 10.4576G     | 68.04             | 68.20             | -0.16          | 11.81          | 3           | Vertical  | 339            | 2.28          | -        | 56.23         | 39.54      | 8.01       | 35.74      |

# 802.11ac VHT40\_Nss1,(MCS0)\_4TX

## 5230MHz\_TX

17/03/2018

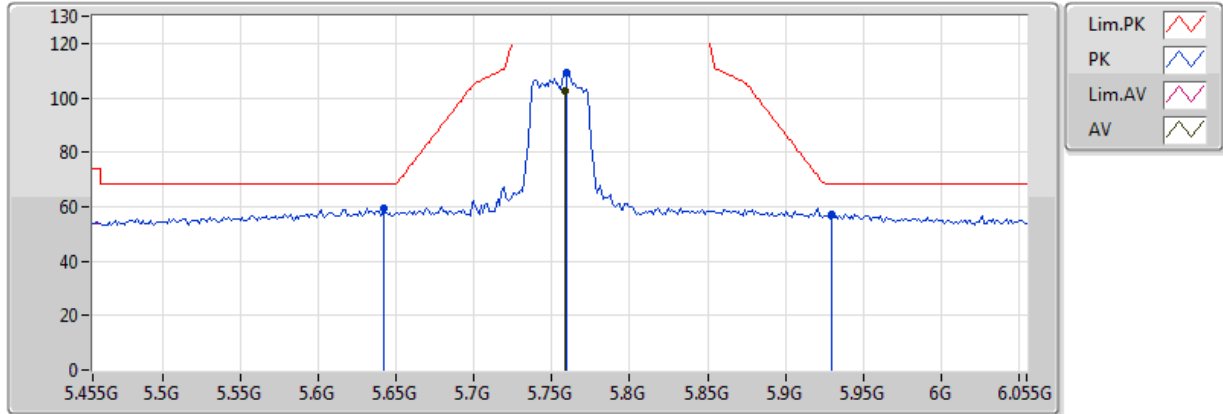


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|-----------|----------|----------|--------|--------|------|------------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| PK   | 10.45862G | 59.82    | 68.20    | -8.38  | 11.81  | 3    | Horizontal | 175     | 1.15   | -        | 48.01  | 39.54 | 8.01 | 35.74 |

# 802.11ac VHT40\_Nss1,(MCS0)\_4TX

## 5755MHz\_TX

17/03/2018

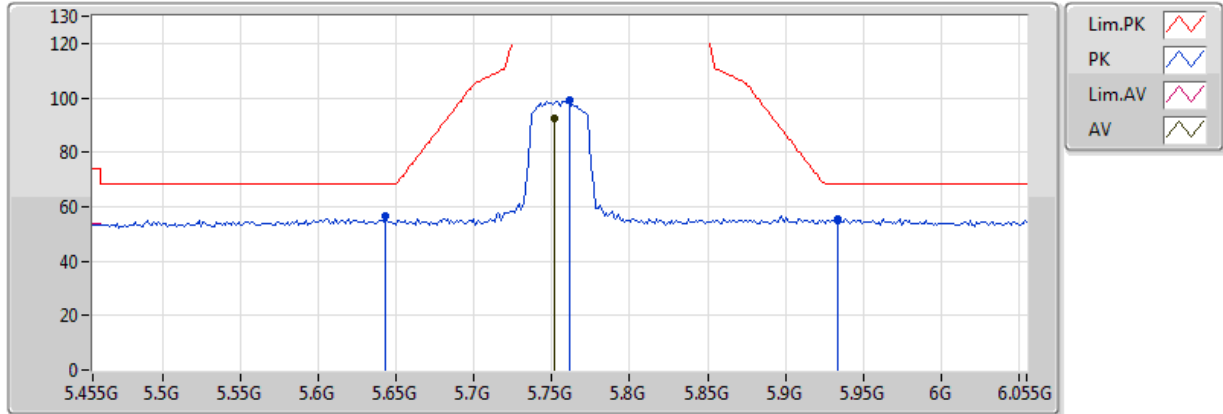


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.7586G      | 102.80            | Inf               | -Inf           | 2.88           | 3           | Vertical  | 335            | 1.13          | -        | 99.92         | 32.21      | 5.85       | 35.19      |
| PK   | 5.6422G      | 59.40             | 68.20             | -8.80          | 2.66           | 3           | Vertical  | 335            | 1.13          | -        | 56.74         | 32.07      | 5.77       | 35.18      |
| PK   | 5.7598G      | 109.44            | Inf               | -Inf           | 2.88           | 3           | Vertical  | 335            | 1.13          | -        | 106.56        | 32.21      | 5.85       | 35.19      |
| PK   | 5.9302G      | 57.03             | 68.20             | -11.17         | 3.20           | 3           | Vertical  | 335            | 1.13          | -        | 53.83         | 32.42      | 5.97       | 35.19      |

## 802.11ac VHT40\_Nss1,(MCS0)\_4TX

### 5755MHz\_TX

17/03/2018

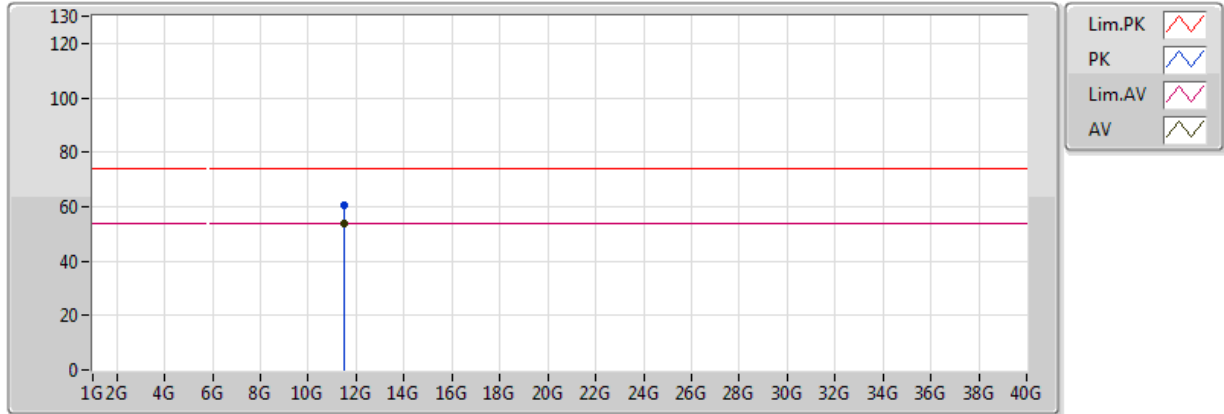


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.7514G      | 92.31             | Inf               | -Inf           | 2.86           | 3           | Horizontal | 360            | 2.73          | -        | 89.45         | 32.20      | 5.85       | 35.19      |
| PK   | 5.6434G      | 56.43             | 68.20             | -11.77         | 2.66           | 3           | Horizontal | 360            | 2.73          | -        | 53.77         | 32.07      | 5.77       | 35.18      |
| PK   | 5.761G       | 99.11             | Inf               | -Inf           | 2.88           | 3           | Horizontal | 360            | 2.73          | -        | 96.23         | 32.21      | 5.85       | 35.19      |
| PK   | 5.9338G      | 55.65             | 68.20             | -12.55         | 3.20           | 3           | Horizontal | 360            | 2.73          | -        | 52.45         | 32.42      | 5.97       | 35.19      |

# 802.11ac VHT40\_Nss1,(MCS0)\_4TX

## 5755MHz\_TX

17/03/2018

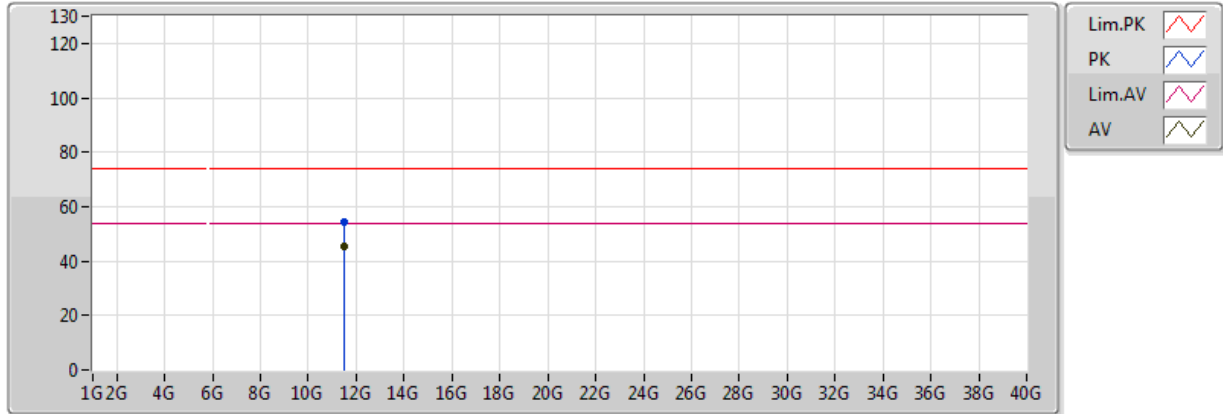


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|-----------|----------|----------|--------|--------|------|-----------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 11.5112G  | 53.69    | 54.00    | -0.31  | 12.43  | 3    | Vertical  | 333     | 1.00   | -        | 41.26  | 39.53 | 8.38 | 35.48 |
| PK   | 11.50982G | 60.70    | 74.00    | -13.30 | 12.43  | 3    | Vertical  | 333     | 1.00   | -        | 48.27  | 39.54 | 8.38 | 35.48 |

# 802.11ac VHT40\_Nss1,(MCS0)\_4TX

## 5755MHz\_TX

17/03/2018

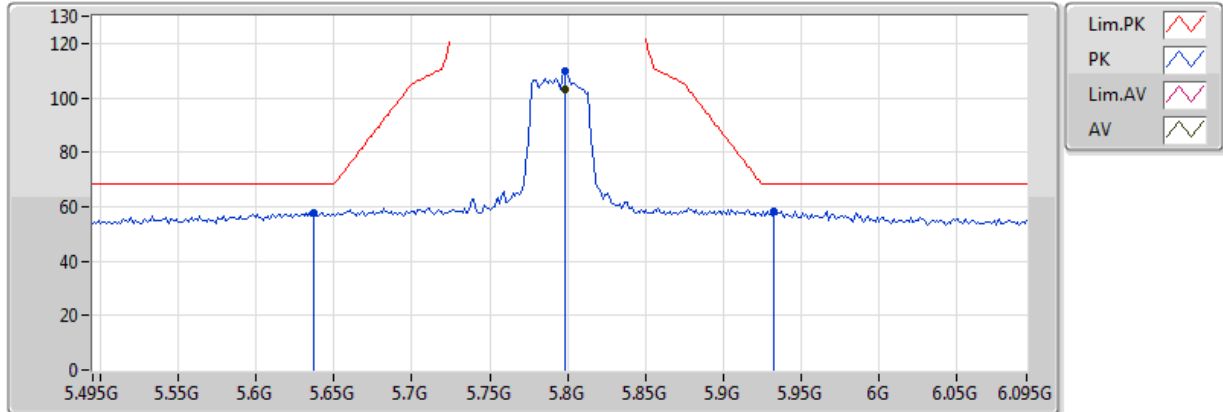


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|-----------|----------|----------|--------|--------|------|------------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 11.51342G | 45.39    | 54.00    | -8.61  | 12.43  | 3    | Horizontal | 57      | 1.01   | -        | 32.96  | 39.53 | 8.38 | 35.48 |
| PK   | 11.50664G | 54.43    | 74.00    | -19.57 | 12.44  | 3    | Horizontal | 57      | 1.01   | -        | 41.99  | 39.54 | 8.38 | 35.48 |

## 802.11ac VHT40\_Nss1,(MCS0)\_4TX

## 5795MHz\_TX

17/03/2018

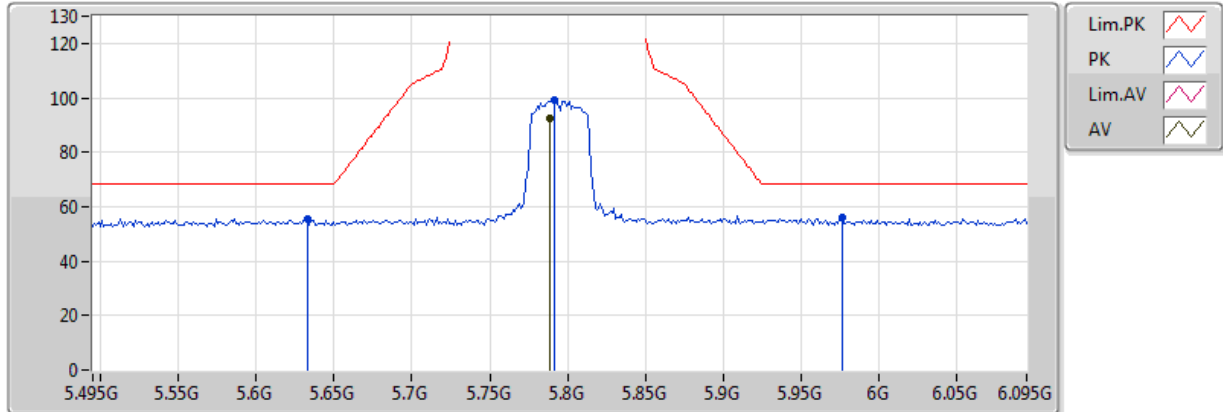


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.7986G      | 103.37            | Inf               | -Inf           | 2.95           | 3           | Vertical  | 330            | 1.00          | -        | 100.42        | 32.26      | 5.88       | 35.19      |
| PK   | 5.6366G      | 57.96             | 68.20             | -10.24         | 2.65           | 3           | Vertical  | 330            | 1.00          | -        | 55.31         | 32.06      | 5.77       | 35.18      |
| PK   | 5.7986G      | 110.02            | Inf               | -Inf           | 2.95           | 3           | Vertical  | 330            | 1.00          | -        | 107.07        | 32.26      | 5.88       | 35.19      |
| PK   | 5.933G       | 58.21             | 68.20             | -9.99          | 3.20           | 3           | Vertical  | 330            | 1.00          | -        | 55.01         | 32.42      | 5.97       | 35.19      |

# 802.11ac VHT40\_Nss1,(MCS0)\_4TX

## 5795MHz\_TX

17/03/2018

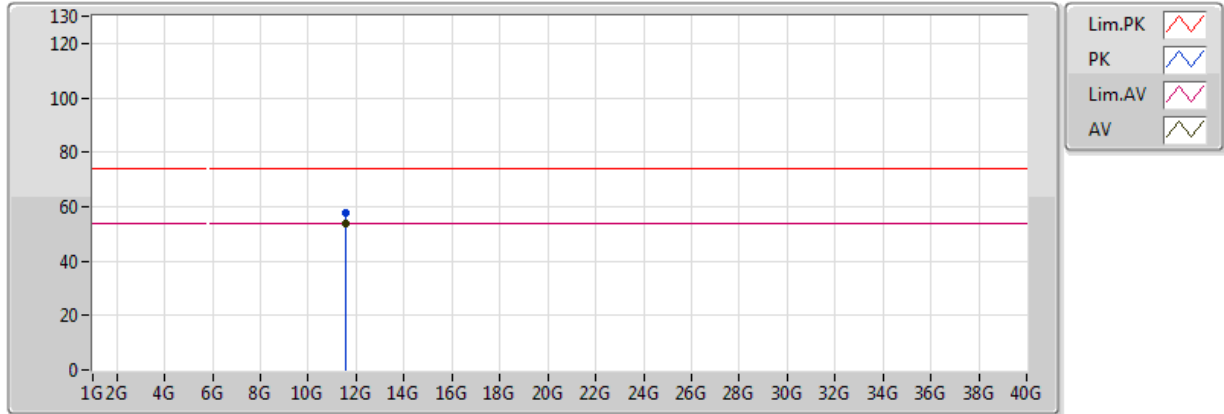


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.789G       | 92.55             | Inf               | -Inf           | 2.93           | 3           | Horizontal | 360            | 2.70          | -        | 89.62         | 32.25      | 5.87       | 35.19      |
| PK   | 5.633G       | 55.48             | 68.20             | -12.72         | 2.64           | 3           | Horizontal | 360            | 2.70          | -        | 52.84         | 32.06      | 5.76       | 35.18      |
| PK   | 5.7914G      | 99.15             | Inf               | -Inf           | 2.93           | 3           | Horizontal | 360            | 2.70          | -        | 96.22         | 32.25      | 5.87       | 35.19      |
| PK   | 5.9762G      | 55.93             | 68.20             | -12.27         | 3.27           | 3           | Horizontal | 360            | 2.70          | -        | 52.66         | 32.47      | 6.00       | 35.20      |

# 802.11ac VHT40\_Nss1,(MCS0)\_4TX

## 5795MHz\_TX

17/03/2018

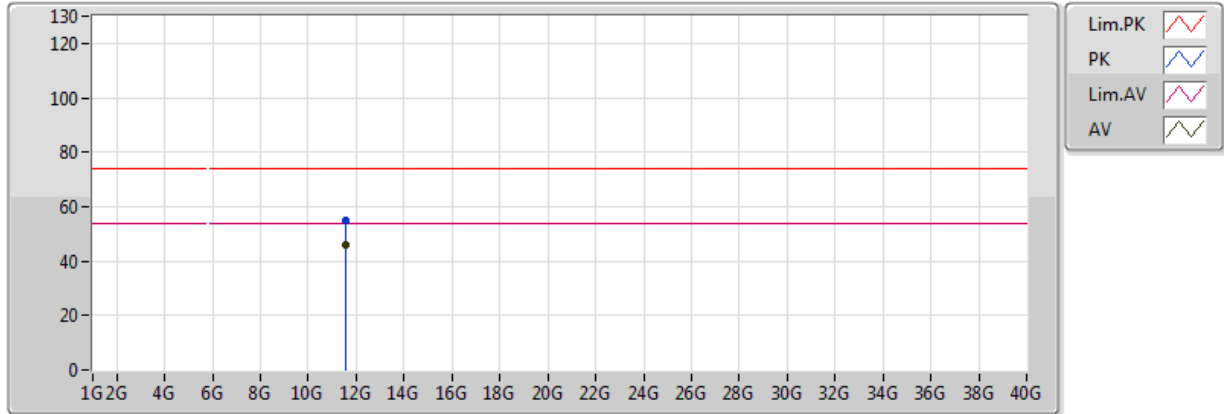


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|-----------|----------|----------|--------|--------|------|-----------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 11.58964G | 53.60    | 54.00    | -0.40  | 12.34  | 3    | Vertical  | 11      | 1.00   | -        | 41.26  | 39.42 | 8.43 | 35.50 |
| PK   | 11.58868G | 57.75    | 74.00    | -16.25 | 12.34  | 3    | Vertical  | 11      | 1.00   | -        | 45.41  | 39.42 | 8.43 | 35.50 |

# 802.11ac VHT40\_Nss1,(MCS0)\_4TX

## 5795MHz\_TX

17/03/2018

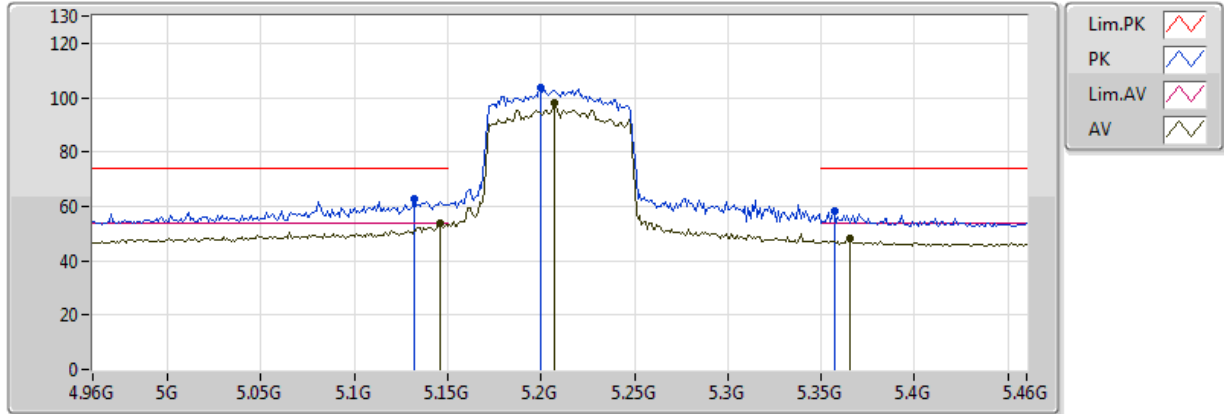


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|-----------|----------|----------|--------|--------|------|------------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 11.59078G | 46.00    | 54.00    | -8.00  | 12.34  | 3    | Horizontal | 222     | 1.01   | -        | 33.66  | 39.41 | 8.43 | 35.50 |
| PK   | 11.58838G | 54.94    | 74.00    | -19.06 | 12.35  | 3    | Horizontal | 222     | 1.01   | -        | 42.59  | 39.42 | 8.43 | 35.50 |

# 802.11ac VHT80\_Nss1,(MCS0)\_4TX

## 5210MHz\_TX

17/03/2018

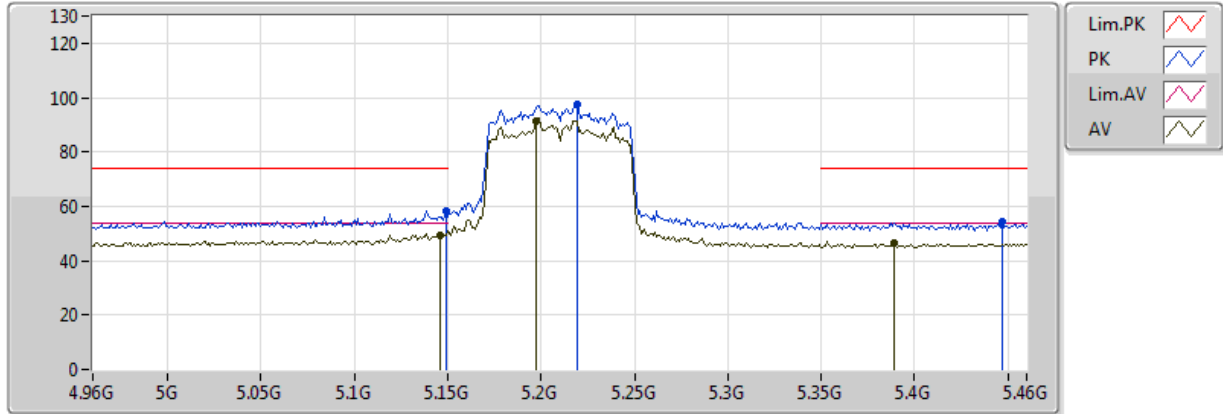


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.146G       | 53.57             | 54.00             | -0.43          | 1.83           | 3           | Vertical  | 348            | 1.21          | -        | 51.74         | 31.62      | 5.42       | 35.21      |
| AV   | 5.207G       | 97.96             | Inf               | -Inf           | 1.93           | 3           | Vertical  | 348            | 1.21          | -        | 96.03         | 31.67      | 5.46       | 35.20      |
| AV   | 5.365G       | 48.39             | 54.00             | -5.61          | 2.19           | 3           | Vertical  | 348            | 1.21          | -        | 46.20         | 31.79      | 5.58       | 35.18      |
| PK   | 5.132G       | 62.48             | 74.00             | -11.52         | 1.81           | 3           | Vertical  | 348            | 1.21          | -        | 60.67         | 31.61      | 5.41       | 35.21      |
| PK   | 5.2G         | 103.51            | Inf               | -Inf           | 1.92           | 3           | Vertical  | 348            | 1.21          | -        | 101.59        | 31.66      | 5.46       | 35.20      |
| PK   | 5.357G       | 58.01             | 74.00             | -15.99         | 2.18           | 3           | Vertical  | 348            | 1.21          | -        | 55.83         | 31.79      | 5.57       | 35.18      |

# 802.11ac VHT80\_Nss1,(MCS0)\_4TX

## 5210MHz\_TX

17/03/2018

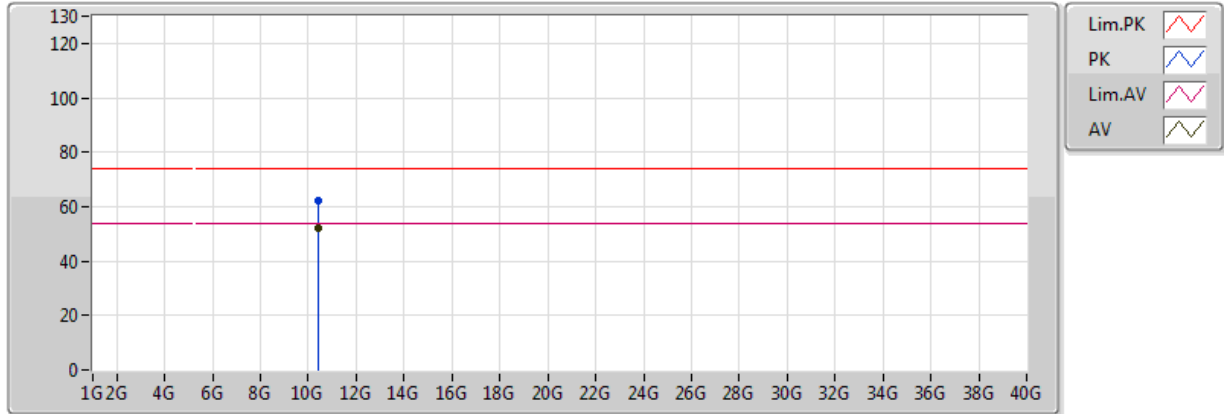


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.146G       | 49.54             | 54.00             | -4.46          | 1.83           | 3           | Horizontal | 305            | 1.02          | -        | 47.71         | 31.62      | 5.42       | 35.21      |
| AV   | 5.197G       | 91.09             | Inf               | -Inf           | 1.92           | 3           | Horizontal | 305            | 1.02          | -        | 89.17         | 31.66      | 5.46       | 35.20      |
| AV   | 5.389G       | 46.46             | 54.00             | -7.54          | 2.22           | 3           | Horizontal | 305            | 1.02          | -        | 44.24         | 31.81      | 5.59       | 35.18      |
| PK   | 5.149G       | 58.34             | 74.00             | -15.66         | 1.83           | 3           | Horizontal | 305            | 1.02          | -        | 56.51         | 31.62      | 5.42       | 35.21      |
| PK   | 5.219G       | 97.47             | Inf               | -Inf           | 1.95           | 3           | Horizontal | 305            | 1.02          | -        | 95.52         | 31.68      | 5.47       | 35.20      |
| PK   | 5.447G       | 54.16             | 74.00             | -19.84         | 2.31           | 3           | Horizontal | 305            | 1.02          | -        | 51.85         | 31.86      | 5.63       | 35.18      |

# 802.11ac VHT80\_Nss1,(MCS0)\_4TX

## 5210MHz\_TX

17/03/2018

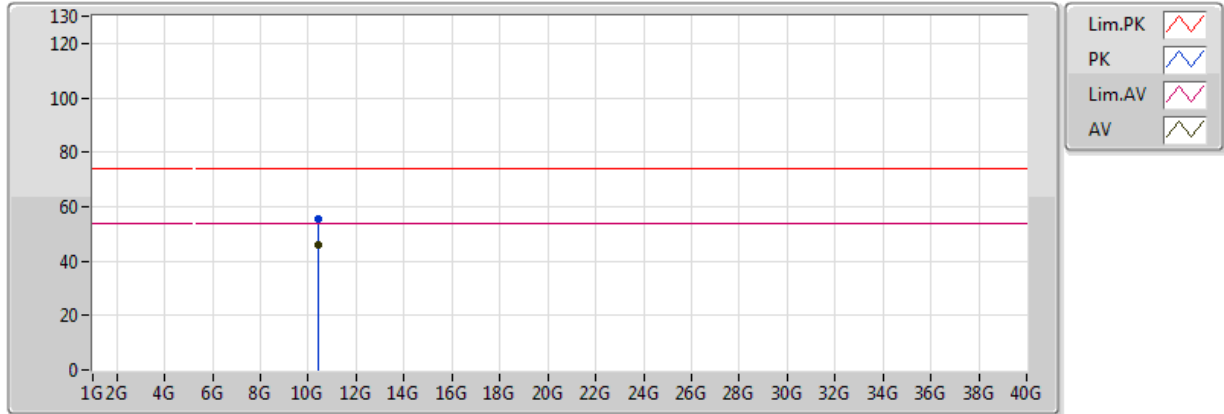


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 10.4287G     | 52.08             | 54.00             | -1.92          | 11.75          | 3           | Vertical  | 354            | 2.50          | -        | 40.33         | 39.50      | 8.01       | 35.76      |
| PK   | 10.40908G    | 62.16             | 74.00             | -11.84         | 11.70          | 3           | Vertical  | 354            | 2.50          | -        | 50.46         | 39.47      | 8.01       | 35.78      |

# 802.11ac VHT80\_Nss1,(MCS0)\_4TX

## 5210MHz\_TX

17/03/2018

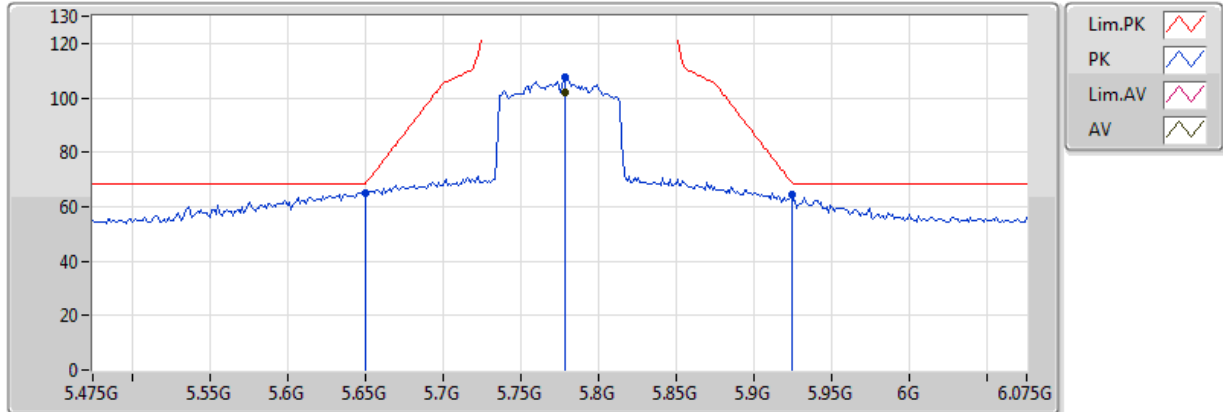


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 10.40926G    | 46.12             | 54.00             | -7.88          | 11.70          | 3           | Horizontal | 189            | 1.22          | -        | 34.42         | 39.47      | 8.01       | 35.78      |
| PK   | 10.43176G    | 55.52             | 74.00             | -18.48         | 11.75          | 3           | Horizontal | 189            | 1.22          | -        | 43.77         | 39.50      | 8.01       | 35.76      |

# 802.11ac VHT80\_Nss1,(MCS0)\_4TX

## 5775MHz\_TX

17/03/2018

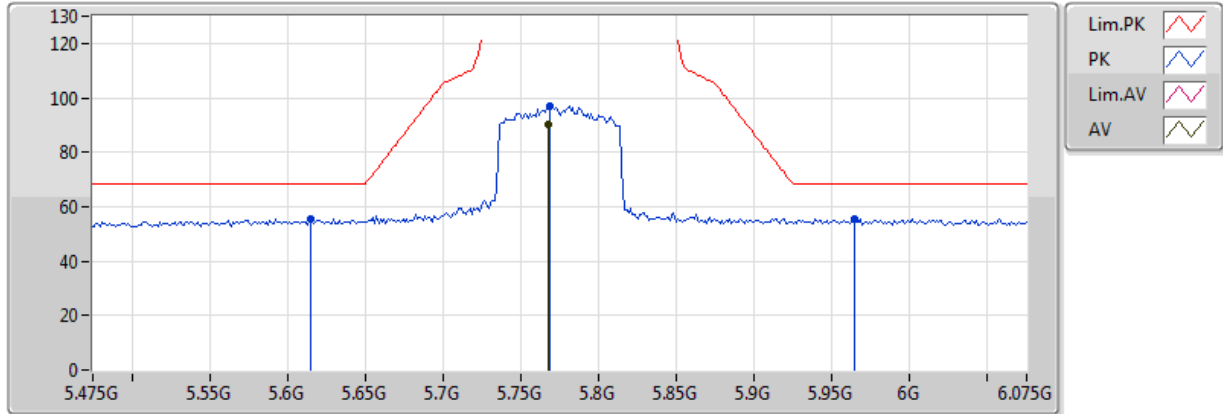


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.7786G      | 102.26            | Inf               | -Inf           | 2.91           | 3           | Vertical  | 320            | 1.09          | -        | 99.35         | 32.23      | 5.87       | 35.19      |
| PK   | 5.6502G      | 65.08             | 68.35             | -3.27          | 2.68           | 3           | Vertical  | 320            | 1.09          | -        | 62.40         | 32.08      | 5.78       | 35.18      |
| PK   | 5.7786G      | 107.70            | Inf               | -Inf           | 2.91           | 3           | Vertical  | 320            | 1.09          | -        | 104.79        | 32.23      | 5.87       | 35.19      |
| PK   | 5.9238G      | 64.19             | 69.09             | -4.90          | 3.19           | 3           | Vertical  | 320            | 1.09          | -        | 61.00         | 32.41      | 5.97       | 35.19      |

### 802.11ac VHT80\_Nss1,(MCS0)\_4TX

### 5775MHz\_TX

17/03/2018

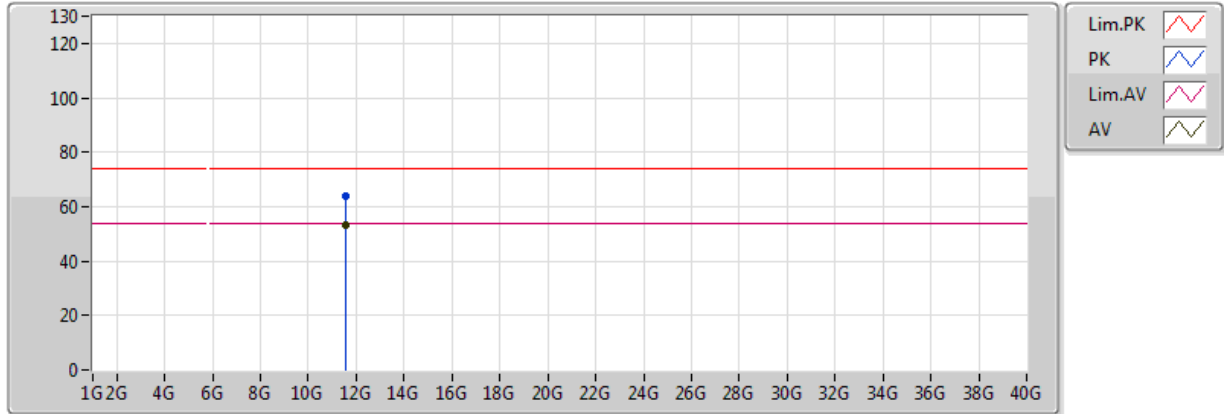


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.7678G      | 90.49             | Inf               | -Inf           | 2.89           | 3           | Horizontal | 357            | 1.01          | -        | 87.60         | 32.22      | 5.86       | 35.19      |
| PK   | 5.6154G      | 55.28             | 68.20             | -12.92         | 2.61           | 3           | Horizontal | 357            | 1.01          | -        | 52.67         | 32.04      | 5.75       | 35.18      |
| PK   | 5.769G       | 97.01             | Inf               | -Inf           | 2.89           | 3           | Horizontal | 357            | 1.01          | -        | 94.12         | 32.22      | 5.86       | 35.19      |
| PK   | 5.9646G      | 55.58             | 68.20             | -12.62         | 3.26           | 3           | Horizontal | 357            | 1.01          | -        | 52.32         | 32.46      | 6.00       | 35.20      |

# 802.11ac VHT80\_Nss1,(MCS0)\_4TX

## 5775MHz\_TX

17/03/2018

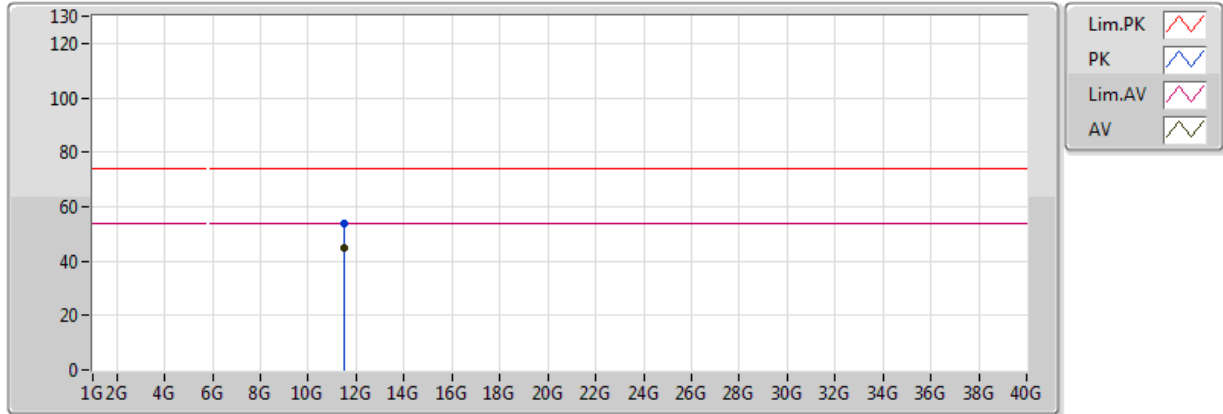


| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|-----------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 11.5686G | 53.41    | 54.00    | -0.59  | 12.37  | 3    | Vertical  | 346     | 1.00   | -        | 41.04  | 39.45 | 8.41 | 35.49 |
| PK   | 11.5703G | 63.63    | 74.00    | -10.37 | 12.37  | 3    | Vertical  | 346     | 1.00   | -        | 51.26  | 39.44 | 8.42 | 35.49 |

# 802.11ac VHT80\_Nss1,(MCS0)\_4TX

## 5775MHz\_TX

17/03/2018



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 11.5263G     | 45.00             | 54.00             | -9.00          | 12.42          | 3           | Horizontal | 32             | 1.41          | -        | 32.58         | 39.51      | 8.39       | 35.49      |
| PK   | 11.5293G     | 53.71             | 74.00             | -20.29         | 12.41          | 3           | Horizontal | 32             | 1.41          | -        | 41.30         | 39.51      | 8.39       | 35.49      |

**Summary**

| Mode                     | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| 5.15-5.25GHz             | -      | -    | -            | -                 | -                 | -              | -              | -           | -         | -              | -             | -        |
| VHT20-BF_Nss1,(MCS0)_4TX | Pass   | PK   | 10.40162G    | 67.78             | 68.20             | -0.42          | 11.69          | 3           | Vertical  | 5              | 2.31          | -        |
| VHT40-BF_Nss1,(MCS0)_4TX | Pass   | AV   | 10.45994G    | 53.64             | 54.00             | -0.36          | 11.82          | 3           | Vertical  | 27             | 2.40          | -        |
| VHT80-BF_Nss1,(MCS0)_4TX | Pass   | AV   | 5.149995G    | 53.83             | 54.00             | -0.17          | 1.83           | 3           | Vertical  | 333            | 1.27          | -        |
| 5.725-5.85GHz            | -      | -    | -            | -                 | -                 | -              | -              | -           | -         | -              | -             | -        |
| VHT20-BF_Nss1,(MCS0)_4TX | Pass   | AV   | 11.56976G    | 53.81             | 54.00             | -0.19          | 12.37          | 3           | Vertical  | 163            | 1.00          | -        |
| VHT40-BF_Nss1,(MCS0)_4TX | Pass   | AV   | 11.50952G    | 53.75             | 54.00             | -0.25          | 12.43          | 3           | Vertical  | 2              | 1.18          | -        |
| VHT80-BF_Nss1,(MCS0)_4TX | Pass   | AV   | 11.54964G    | 53.41             | 54.00             | -0.59          | 12.39          | 3           | Vertical  | 357            | 1.06          | -        |

**Result**

| Mode                     | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| VHT20-BF_Nss1,(MCS0)_4TX | -      | -    | -            | -                 | -                 | -              | -              | -           | -          | -              | -             | -        |
| 5180MHz                  | Pass   | AV   | 5.1458G      | 45.27             | 54.00             | -8.73          | 1.83           | 3           | Horizontal | 92             | 2.93          | -        |
| 5180MHz                  | Pass   | AV   | 5.173G       | 95.80             | Inf               | -Inf           | 1.88           | 3           | Horizontal | 92             | 2.93          | -        |
| 5180MHz                  | Pass   | PK   | 5.1426G      | 55.68             | 74.00             | -18.32         | 1.82           | 3           | Horizontal | 92             | 2.93          | -        |
| 5180MHz                  | Pass   | PK   | 5.174G       | 102.84            | Inf               | -Inf           | 1.88           | 3           | Horizontal | 92             | 2.93          | -        |
| 5180MHz                  | Pass   | AV   | 5.1478G      | 47.04             | 54.00             | -6.96          | 1.83           | 3           | Vertical   | 334            | 1.39          | -        |
| 5180MHz                  | Pass   | AV   | 5.183G       | 103.14            | Inf               | -Inf           | 1.89           | 3           | Vertical   | 334            | 1.39          | -        |
| 5180MHz                  | Pass   | PK   | 5.139G       | 57.17             | 74.00             | -16.83         | 1.82           | 3           | Vertical   | 334            | 1.39          | -        |
| 5180MHz                  | Pass   | PK   | 5.1758G      | 109.76            | Inf               | -Inf           | 1.88           | 3           | Vertical   | 334            | 1.39          | -        |
| 5180MHz                  | Pass   | PK   | 10.3594G     | 62.55             | 68.20             | -5.65          | 11.59          | 3           | Horizontal | 145            | 2.06          | -        |
| 5180MHz                  | Pass   | PK   | 10.35838G    | 67.58             | 68.20             | -0.62          | 11.59          | 3           | Vertical   | 326            | 1.01          | -        |
| 5200MHz                  | Pass   | AV   | 5.12G        | 45.05             | 54.00             | -8.95          | 1.79           | 3           | Horizontal | 92             | 2.92          | -        |
| 5200MHz                  | Pass   | AV   | 5.2048G      | 95.03             | Inf               | -Inf           | 1.93           | 3           | Horizontal | 92             | 2.92          | -        |
| 5200MHz                  | Pass   | PK   | 5.1192G      | 54.86             | 74.00             | -19.14         | 1.79           | 3           | Horizontal | 92             | 2.92          | -        |
| 5200MHz                  | Pass   | PK   | 5.2052G      | 101.93            | Inf               | -Inf           | 1.93           | 3           | Horizontal | 92             | 2.92          | -        |
| 5200MHz                  | Pass   | AV   | 5.1228G      | 47.10             | 54.00             | -6.90          | 1.80           | 3           | Vertical   | 327            | 1.01          | -        |
| 5200MHz                  | Pass   | AV   | 5.2028G      | 101.94            | Inf               | -Inf           | 1.92           | 3           | Vertical   | 327            | 1.01          | -        |
| 5200MHz                  | Pass   | PK   | 5.1472G      | 57.06             | 74.00             | -16.94         | 1.83           | 3           | Vertical   | 327            | 1.01          | -        |
| 5200MHz                  | Pass   | PK   | 5.2028G      | 109.63            | Inf               | -Inf           | 1.92           | 3           | Vertical   | 327            | 1.01          | -        |
| 5200MHz                  | Pass   | PK   | 10.4003G     | 62.10             | 68.20             | -6.10          | 11.68          | 3           | Horizontal | 216            | 2.91          | -        |
| 5200MHz                  | Pass   | PK   | 10.40162G    | 67.78             | 68.20             | -0.42          | 11.69          | 3           | Vertical   | 5              | 2.31          | -        |
| 5240MHz                  | Pass   | AV   | 5.149995G    | 44.72             | 54.00             | -9.28          | 1.83           | 3           | Horizontal | 93             | 2.87          | -        |
| 5240MHz                  | Pass   | AV   | 5.243G       | 94.33             | Inf               | -Inf           | 1.99           | 3           | Horizontal | 93             | 2.87          | -        |
| 5240MHz                  | Pass   | AV   | 5.354G       | 43.56             | 54.00             | -10.44         | 2.17           | 3           | Horizontal | 93             | 2.87          | -        |
| 5240MHz                  | Pass   | PK   | 5.1398G      | 54.68             | 74.00             | -19.32         | 1.82           | 3           | Horizontal | 93             | 2.87          | -        |
| 5240MHz                  | Pass   | PK   | 5.243G       | 101.35            | Inf               | -Inf           | 1.99           | 3           | Horizontal | 93             | 2.87          | -        |
| 5240MHz                  | Pass   | PK   | 5.3558G      | 54.09             | 74.00             | -19.91         | 2.17           | 3           | Horizontal | 93             | 2.87          | -        |
| 5240MHz                  | Pass   | AV   | 5.149995G    | 46.47             | 54.00             | -7.53          | 1.83           | 3           | Vertical   | 352            | 1.01          | -        |
| 5240MHz                  | Pass   | AV   | 5.2352G      | 101.95            | Inf               | -Inf           | 1.98           | 3           | Vertical   | 352            | 1.01          | -        |
| 5240MHz                  | Pass   | AV   | 5.354G       | 45.22             | 54.00             | -8.78          | 2.17           | 3           | Vertical   | 352            | 1.01          | -        |
| 5240MHz                  | Pass   | PK   | 5.147G       | 56.03             | 74.00             | -17.97         | 1.83           | 3           | Vertical   | 352            | 1.01          | -        |
| 5240MHz                  | Pass   | PK   | 5.243G       | 109.15            | Inf               | -Inf           | 1.99           | 3           | Vertical   | 352            | 1.01          | -        |
| 5240MHz                  | Pass   | PK   | 5.3504G      | 54.74             | 74.00             | -19.26         | 2.17           | 3           | Vertical   | 352            | 1.01          | -        |
| 5240MHz                  | Pass   | PK   | 10.477G      | 63.92             | 68.20             | -4.28          | 11.85          | 3           | Horizontal | 216            | 2.18          | -        |
| 5240MHz                  | Pass   | PK   | 10.4803G     | 67.72             | 68.20             | -0.48          | 11.86          | 3           | Vertical   | 4              | 2.33          | -        |
| 5745MHz                  | Pass   | AV   | 5.7474G      | 94.84             | Inf               | -Inf           | 2.86           | 3           | Horizontal | 164            | 1.44          | -        |
| 5745MHz                  | Pass   | PK   | 5.535G       | 55.60             | 68.20             | -12.60         | 2.46           | 3           | Horizontal | 164            | 1.44          | -        |
| 5745MHz                  | Pass   | PK   | 5.7474G      | 101.20            | Inf               | -Inf           | 2.86           | 3           | Horizontal | 164            | 1.44          | -        |
| 5745MHz                  | Pass   | PK   | 5.9454G      | 54.93             | 68.20             | -13.27         | 3.22           | 3           | Horizontal | 164            | 1.44          | -        |
| 5745MHz                  | Pass   | AV   | 5.7474G      | 106.17            | Inf               | -Inf           | 2.86           | 3           | Vertical   | 340            | 1.10          | -        |
| 5745MHz                  | Pass   | PK   | 5.6262G      | 58.29             | 68.20             | -9.91          | 2.63           | 3           | Vertical   | 340            | 1.10          | -        |
| 5745MHz                  | Pass   | PK   | 5.7486G      | 112.89            | Inf               | -Inf           | 2.86           | 3           | Vertical   | 340            | 1.10          | -        |
| 5745MHz                  | Pass   | PK   | 5.925G       | 56.48             | 68.20             | -11.72         | 3.19           | 3           | Vertical   | 340            | 1.10          | -        |
| 5745MHz                  | Pass   | AV   | 11.49354G    | 45.51             | 54.00             | -8.49          | 12.45          | 3           | Horizontal | 330            | 1.34          | -        |
| 5745MHz                  | Pass   | PK   | 11.49096G    | 56.48             | 74.00             | -17.52         | 12.46          | 3           | Horizontal | 330            | 1.34          | -        |
| 5745MHz                  | Pass   | AV   | 11.48994G    | 53.52             | 54.00             | -0.48          | 12.46          | 3           | Vertical   | 2              | 1.08          | -        |
| 5745MHz                  | Pass   | PK   | 11.49048G    | 65.32             | 74.00             | -8.68          | 12.46          | 3           | Vertical   | 2              | 1.08          | -        |
| 5785MHz                  | Pass   | AV   | 5.7778G      | 101.20            | Inf               | -Inf           | 2.91           | 3           | Horizontal | 82             | 1.08          | -        |



## RSE TX above 1GHz Result – Beamforming

## Appendix E.4

| Mode                     | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| 5785MHz                  | Pass   | PK   | 5.6278G      | 55.45             | 68.20             | -12.75         | 2.63           | 3           | Horizontal | 82             | 1.08          | -        |
| 5785MHz                  | Pass   | PK   | 5.779G       | 108.21            | Inf               | -Inf           | 2.91           | 3           | Horizontal | 82             | 1.08          | -        |
| 5785MHz                  | Pass   | PK   | 5.9326G      | 55.39             | 68.20             | -12.81         | 3.20           | 3           | Horizontal | 82             | 1.08          | -        |
| 5785MHz                  | Pass   | AV   | 5.7814G      | 110.55            | Inf               | -Inf           | 2.92           | 3           | Vertical   | 346            | 1.01          | -        |
| 5785MHz                  | Pass   | PK   | 5.6278G      | 58.53             | 68.20             | -9.67          | 2.63           | 3           | Vertical   | 346            | 1.01          | -        |
| 5785MHz                  | Pass   | PK   | 5.7802G      | 117.15            | Inf               | -Inf           | 2.91           | 3           | Vertical   | 346            | 1.01          | -        |
| 5785MHz                  | Pass   | PK   | 5.929G       | 56.91             | 68.20             | -11.29         | 3.19           | 3           | Vertical   | 346            | 1.01          | -        |
| 5785MHz                  | Pass   | AV   | 11.56982G    | 49.30             | 54.00             | -4.70          | 12.37          | 3           | Horizontal | 216            | 1.05          | -        |
| 5785MHz                  | Pass   | PK   | 11.56916G    | 60.04             | 74.00             | -13.96         | 12.37          | 3           | Horizontal | 216            | 1.05          | -        |
| 5785MHz                  | Pass   | AV   | 11.56976G    | 53.81             | 54.00             | -0.19          | 12.37          | 3           | Vertical   | 163            | 1.00          | -        |
| 5785MHz                  | Pass   | PK   | 11.56046G    | 64.76             | 74.00             | -9.24          | 12.38          | 3           | Vertical   | 163            | 1.00          | -        |
| 5825MHz                  | Pass   | AV   | 5.8214G      | 100.28            | Inf               | -Inf           | 2.99           | 3           | Horizontal | 72             | 1.06          | -        |
| 5825MHz                  | Pass   | PK   | 5.621G       | 54.37             | 68.20             | -13.83         | 2.62           | 3           | Horizontal | 72             | 1.06          | -        |
| 5825MHz                  | Pass   | PK   | 5.8202G      | 106.57            | Inf               | -Inf           | 2.99           | 3           | Horizontal | 72             | 1.06          | -        |
| 5825MHz                  | Pass   | PK   | 5.9282G      | 56.09             | 68.20             | -12.11         | 3.19           | 3           | Horizontal | 72             | 1.06          | -        |
| 5825MHz                  | Pass   | AV   | 5.8274G      | 108.09            | Inf               | -Inf           | 3.00           | 3           | Vertical   | 343            | 2.55          | -        |
| 5825MHz                  | Pass   | PK   | 5.6486G      | 56.75             | 68.20             | -11.45         | 2.67           | 3           | Vertical   | 343            | 2.55          | -        |
| 5825MHz                  | Pass   | PK   | 5.8298G      | 115.04            | Inf               | -Inf           | 3.01           | 3           | Vertical   | 343            | 2.55          | -        |
| 5825MHz                  | Pass   | PK   | 5.9318G      | 59.04             | 68.20             | -9.16          | 3.20           | 3           | Vertical   | 343            | 2.55          | -        |
| 5825MHz                  | Pass   | AV   | 11.65426G    | 45.58             | 54.00             | -8.42          | 12.27          | 3           | Horizontal | 4              | 2.21          | -        |
| 5825MHz                  | Pass   | PK   | 11.65354G    | 56.86             | 74.00             | -17.14         | 12.27          | 3           | Horizontal | 4              | 2.21          | -        |
| 5825MHz                  | Pass   | AV   | 11.64688G    | 51.91             | 54.00             | -2.09          | 12.28          | 3           | Vertical   | 168            | 2.15          | -        |
| 5825MHz                  | Pass   | PK   | 11.64598G    | 63.76             | 74.00             | -10.24         | 12.28          | 3           | Vertical   | 168            | 2.15          | -        |
| VHT40-BF_Nss1,(MCS0)_4TX | -      | -    | -            | -                 | -                 | -              | -              | -           | -          | -              | -             | -        |
| 5190MHz                  | Pass   | AV   | 5.149G       | 45.45             | 54.00             | -8.55          | 1.83           | 3           | Horizontal | 97             | 2.58          | -        |
| 5190MHz                  | Pass   | AV   | 5.2004G      | 91.11             | Inf               | -Inf           | 1.92           | 3           | Horizontal | 97             | 2.58          | -        |
| 5190MHz                  | Pass   | PK   | 5.1458G      | 55.04             | 74.00             | -18.96         | 1.83           | 3           | Horizontal | 97             | 2.58          | -        |
| 5190MHz                  | Pass   | PK   | 5.199G       | 97.78             | Inf               | -Inf           | 1.92           | 3           | Horizontal | 97             | 2.58          | -        |
| 5190MHz                  | Pass   | AV   | 5.1494G      | 51.54             | 54.00             | -2.46          | 1.83           | 3           | Vertical   | 338            | 1.01          | -        |
| 5190MHz                  | Pass   | AV   | 5.188G       | 99.11             | Inf               | -Inf           | 1.90           | 3           | Vertical   | 338            | 1.01          | -        |
| 5190MHz                  | Pass   | PK   | 5.146G       | 61.94             | 74.00             | -12.06         | 1.83           | 3           | Vertical   | 338            | 1.01          | -        |
| 5190MHz                  | Pass   | PK   | 5.1844G      | 106.33            | Inf               | -Inf           | 1.90           | 3           | Vertical   | 338            | 1.01          | -        |
| 5190MHz                  | Pass   | PK   | 10.38054G    | 61.63             | 68.20             | -6.57          | 11.64          | 3           | Horizontal | 190            | 2.34          | -        |
| 5190MHz                  | Pass   | PK   | 10.37808G    | 67.09             | 68.20             | -1.11          | 11.64          | 3           | Vertical   | 14             | 1.00          | -        |
| 5230MHz                  | Pass   | AV   | 5.1316G      | 45.02             | 54.00             | -8.98          | 1.81           | 3           | Horizontal | 100            | 2.55          | -        |
| 5230MHz                  | Pass   | AV   | 5.2436G      | 90.75             | Inf               | -Inf           | 1.99           | 3           | Horizontal | 100            | 2.55          | -        |
| 5230MHz                  | Pass   | PK   | 5.1312G      | 55.69             | 74.00             | -18.31         | 1.80           | 3           | Horizontal | 100            | 2.55          | -        |
| 5230MHz                  | Pass   | PK   | 5.2392G      | 97.83             | Inf               | -Inf           | 1.98           | 3           | Horizontal | 100            | 2.55          | -        |
| 5230MHz                  | Pass   | AV   | 5.144G       | 47.25             | 54.00             | -6.75          | 1.83           | 3           | Vertical   | 356            | 1.01          | -        |
| 5230MHz                  | Pass   | AV   | 5.2268G      | 100.02            | Inf               | -Inf           | 1.96           | 3           | Vertical   | 356            | 1.01          | -        |
| 5230MHz                  | Pass   | PK   | 5.1456G      | 56.00             | 74.00             | -18.00         | 1.83           | 3           | Vertical   | 356            | 1.01          | -        |
| 5230MHz                  | Pass   | PK   | 5.2244G      | 106.73            | Inf               | -Inf           | 1.96           | 3           | Vertical   | 356            | 1.01          | -        |
| 5230MHz                  | Pass   | AV   | 10.45994G    | 47.56             | 54.00             | -6.44          | 11.82          | 3           | Horizontal | 102            | 1.01          | -        |
| 5230MHz                  | Pass   | PK   | 10.45934G    | 60.73             | 74.00             | -13.27         | 11.82          | 3           | Horizontal | 102            | 1.01          | -        |
| 5230MHz                  | Pass   | AV   | 10.45994G    | 53.64             | 54.00             | -0.36          | 11.82          | 3           | Vertical   | 27             | 2.40          | -        |
| 5230MHz                  | Pass   | PK   | 10.46048G    | 64.08             | 74.00             | -9.92          | 11.82          | 3           | Vertical   | 27             | 2.40          | -        |
| 5755MHz                  | Pass   | AV   | 5.7634G      | 96.55             | Inf               | -Inf           | 2.88           | 3           | Horizontal | 77             | 1.09          | -        |
| 5755MHz                  | Pass   | PK   | 5.6326G      | 55.14             | 68.20             | -13.06         | 2.64           | 3           | Horizontal | 77             | 1.09          | -        |
| 5755MHz                  | Pass   | PK   | 5.7682G      | 103.02            | Inf               | -Inf           | 2.89           | 3           | Horizontal | 77             | 1.09          | -        |

| Mode                     | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| 5755MHz                  | Pass   | PK   | 5.9458G      | 54.94             | 68.20             | -13.26         | 3.22           | 3           | Horizontal | 77             | 1.09          | -        |
| 5755MHz                  | Pass   | AV   | 5.7622G      | 104.79            | Inf               | -Inf           | 2.88           | 3           | Vertical   | 342            | 1.00          | -        |
| 5755MHz                  | Pass   | PK   | 5.641G       | 59.01             | 68.20             | -9.19          | 2.66           | 3           | Vertical   | 342            | 1.00          | -        |
| 5755MHz                  | Pass   | PK   | 5.7682G      | 111.72            | Inf               | -Inf           | 2.89           | 3           | Vertical   | 342            | 1.00          | -        |
| 5755MHz                  | Pass   | PK   | 5.9518G      | 56.62             | 68.20             | -11.58         | 3.23           | 3           | Vertical   | 342            | 1.00          | -        |
| 5755MHz                  | Pass   | AV   | 11.51666G    | 46.00             | 54.00             | -8.00          | 12.43          | 3           | Horizontal | 334            | 2.24          | -        |
| 5755MHz                  | Pass   | PK   | 11.51546G    | 56.13             | 74.00             | -17.87         | 12.43          | 3           | Horizontal | 334            | 2.24          | -        |
| 5755MHz                  | Pass   | AV   | 11.50952G    | 53.75             | 54.00             | -0.25          | 12.43          | 3           | Vertical   | 2              | 1.18          | -        |
| 5755MHz                  | Pass   | PK   | 11.51066G    | 64.45             | 74.00             | -9.55          | 12.43          | 3           | Vertical   | 2              | 1.18          | -        |
| 5795MHz                  | Pass   | AV   | 5.7998G      | 96.64             | Inf               | -Inf           | 2.95           | 3           | Horizontal | 72             | 1.03          | -        |
| 5795MHz                  | Pass   | PK   | 5.579G       | 55.23             | 68.20             | -12.97         | 2.54           | 3           | Horizontal | 72             | 1.03          | -        |
| 5795MHz                  | Pass   | PK   | 5.7986G      | 102.92            | Inf               | -Inf           | 2.95           | 3           | Horizontal | 72             | 1.03          | -        |
| 5795MHz                  | Pass   | PK   | 5.9246G      | 55.39             | 68.50             | -13.11         | 3.19           | 3           | Horizontal | 72             | 1.03          | -        |
| 5795MHz                  | Pass   | AV   | 5.7842G      | 105.34            | Inf               | -Inf           | 2.92           | 3           | Vertical   | 343            | 1.06          | -        |
| 5795MHz                  | Pass   | PK   | 5.6414G      | 58.22             | 68.20             | -9.98          | 2.66           | 3           | Vertical   | 343            | 1.06          | -        |
| 5795MHz                  | Pass   | PK   | 5.789G       | 112.11            | Inf               | -Inf           | 2.93           | 3           | Vertical   | 343            | 1.06          | -        |
| 5795MHz                  | Pass   | PK   | 5.9342G      | 57.37             | 68.20             | -10.83         | 3.20           | 3           | Vertical   | 343            | 1.06          | -        |
| 5795MHz                  | Pass   | AV   | 11.59018G    | 46.23             | 54.00             | -7.77          | 12.34          | 3           | Horizontal | 333            | 2.13          | -        |
| 5795MHz                  | Pass   | PK   | 11.59G       | 56.58             | 74.00             | -17.42         | 12.34          | 3           | Horizontal | 333            | 2.13          | -        |
| 5795MHz                  | Pass   | AV   | 11.59024G    | 53.09             | 54.00             | -0.91          | 12.34          | 3           | Vertical   | 12             | 1.03          | -        |
| 5795MHz                  | Pass   | PK   | 11.59078G    | 64.19             | 74.00             | -9.81          | 12.34          | 3           | Vertical   | 12             | 1.03          | -        |
| VHT80-BF_Nss1,(MCS0)_4TX | -      | -    | -            | -                 | -                 | -              | -              | -           | -          | -              | -             | -        |
| 5210MHz                  | Pass   | AV   | 5.149995G    | 47.13             | 54.00             | -6.87          | 1.83           | 3           | Horizontal | 93             | 2.48          | -        |
| 5210MHz                  | Pass   | AV   | 5.203G       | 89.35             | Inf               | -Inf           | 1.92           | 3           | Horizontal | 93             | 2.48          | -        |
| 5210MHz                  | Pass   | AV   | 5.364G       | 43.76             | 54.00             | -10.24         | 2.18           | 3           | Horizontal | 93             | 2.48          | -        |
| 5210MHz                  | Pass   | PK   | 5.131G       | 56.22             | 74.00             | -17.78         | 1.80           | 3           | Horizontal | 93             | 2.48          | -        |
| 5210MHz                  | Pass   | PK   | 5.205G       | 96.01             | Inf               | -Inf           | 1.93           | 3           | Horizontal | 93             | 2.48          | -        |
| 5210MHz                  | Pass   | PK   | 5.366G       | 54.73             | 74.00             | -19.27         | 2.19           | 3           | Horizontal | 93             | 2.48          | -        |
| 5210MHz                  | Pass   | AV   | 5.149995G    | 53.83             | 54.00             | -0.17          | 1.83           | 3           | Vertical   | 333            | 1.27          | -        |
| 5210MHz                  | Pass   | AV   | 5.244G       | 95.93             | Inf               | -Inf           | 1.99           | 3           | Vertical   | 333            | 1.27          | -        |
| 5210MHz                  | Pass   | AV   | 5.350005G    | 44.65             | 54.00             | -9.35          | 2.17           | 3           | Vertical   | 333            | 1.27          | -        |
| 5210MHz                  | Pass   | PK   | 5.136G       | 64.42             | 74.00             | -9.58          | 1.82           | 3           | Vertical   | 333            | 1.27          | -        |
| 5210MHz                  | Pass   | PK   | 5.222G       | 103.39            | Inf               | -Inf           | 1.96           | 3           | Vertical   | 333            | 1.27          | -        |
| 5210MHz                  | Pass   | PK   | 5.352G       | 54.58             | 74.00             | -19.42         | 2.17           | 3           | Vertical   | 333            | 1.27          | -        |
| 5210MHz                  | Pass   | AV   | 10.41958G    | 48.07             | 54.00             | -5.93          | 11.73          | 3           | Horizontal | 192            | 2.69          | -        |
| 5210MHz                  | Pass   | PK   | 10.41172G    | 58.79             | 74.00             | -15.21         | 11.71          | 3           | Horizontal | 192            | 2.69          | -        |
| 5210MHz                  | Pass   | AV   | 10.42552G    | 53.25             | 54.00             | -0.75          | 11.74          | 3           | Vertical   | 4              | 2.31          | -        |
| 5210MHz                  | Pass   | PK   | 10.42402G    | 63.75             | 74.00             | -10.25         | 11.74          | 3           | Vertical   | 4              | 2.31          | -        |
| 5775MHz                  | Pass   | AV   | 5.7618G      | 95.75             | Inf               | -Inf           | 2.88           | 3           | Horizontal | 72             | 1.01          | -        |
| 5775MHz                  | Pass   | PK   | 5.6466G      | 58.72             | 68.20             | -9.48          | 2.67           | 3           | Horizontal | 72             | 1.01          | -        |
| 5775MHz                  | Pass   | PK   | 5.7606G      | 103.35            | Inf               | -Inf           | 2.88           | 3           | Horizontal | 72             | 1.01          | -        |
| 5775MHz                  | Pass   | PK   | 5.9358G      | 59.65             | 68.20             | -8.55          | 3.21           | 3           | Horizontal | 72             | 1.01          | -        |
| 5775MHz                  | Pass   | AV   | 5.7786G      | 104.50            | Inf               | -Inf           | 2.91           | 3           | Vertical   | 341            | 1.03          | -        |
| 5775MHz                  | Pass   | PK   | 5.6466G      | 67.22             | 68.20             | -0.98          | 2.67           | 3           | Vertical   | 341            | 1.03          | -        |
| 5775MHz                  | Pass   | PK   | 5.7798G      | 111.92            | Inf               | -Inf           | 2.91           | 3           | Vertical   | 341            | 1.03          | -        |
| 5775MHz                  | Pass   | PK   | 5.9298G      | 62.44             | 68.20             | -5.76          | 3.20           | 3           | Vertical   | 341            | 1.03          | -        |
| 5775MHz                  | Pass   | AV   | 11.54988G    | 46.42             | 54.00             | -7.58          | 12.39          | 3           | Horizontal | 328            | 2.10          | -        |
| 5775MHz                  | Pass   | PK   | 11.55618G    | 55.94             | 74.00             | -18.06         | 12.38          | 3           | Horizontal | 328            | 2.10          | -        |
| 5775MHz                  | Pass   | AV   | 11.54964G    | 53.41             | 54.00             | -0.59          | 12.39          | 3           | Vertical   | 357            | 1.06          | -        |



## RSE TX above 1GHz Result – Beamforming

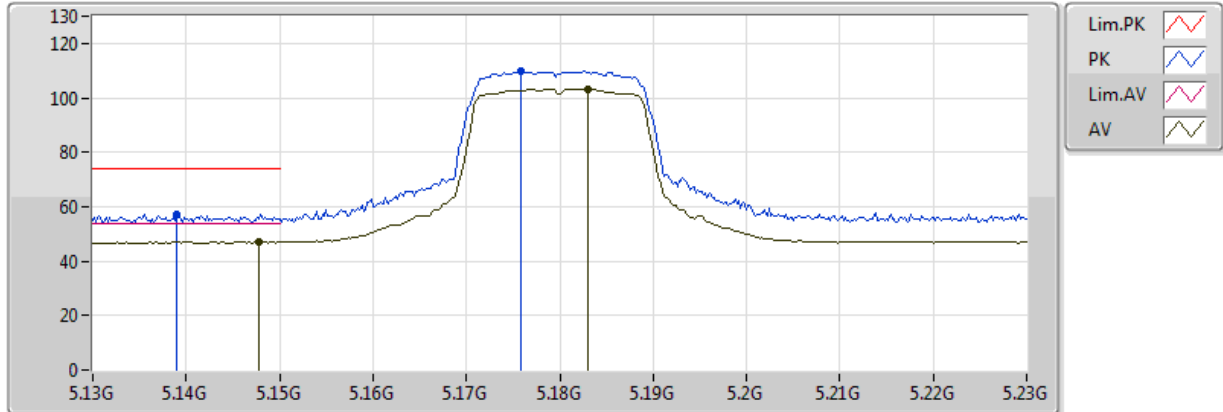
## Appendix E.4

| Mode    | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments |
|---------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| 5775MHz | Pass   | PK   | 11.54886G    | 65.24             | 74.00             | -8.76          | 12.39          | 3           | Vertical  | 357            | 1.06          | -        |

# VHT20-BF\_Nss1,(MCS0)\_4TX

## 5180MHz\_TX

17/03/2018

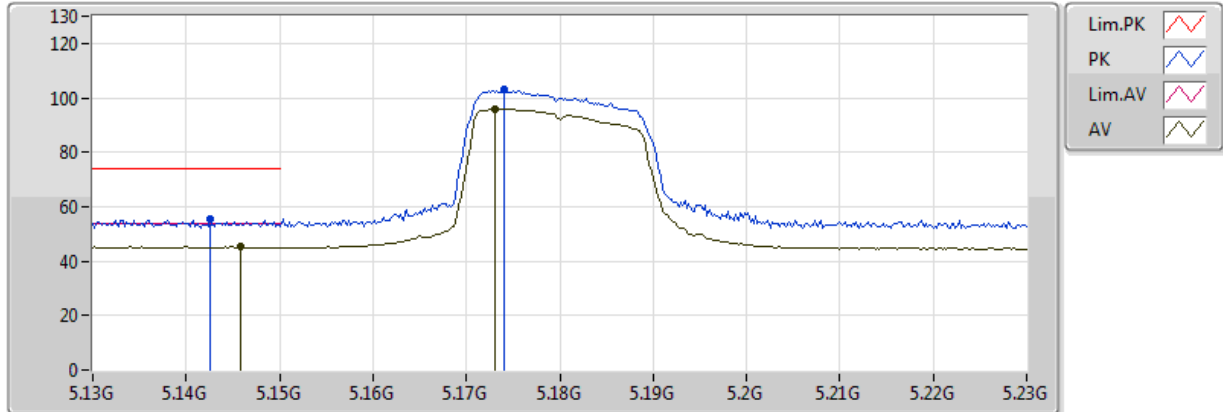


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.1478G      | 47.04             | 54.00             | -6.96          | 1.83           | 3           | Vertical  | 334            | 1.39          | -        | 45.21         | 31.62      | 5.42       | 35.21      |
| AV   | 5.183G       | 103.14            | Inf               | -Inf           | 1.89           | 3           | Vertical  | 334            | 1.39          | -        | 101.25        | 31.65      | 5.45       | 35.20      |
| PK   | 5.139G       | 57.17             | 74.00             | -16.83         | 1.82           | 3           | Vertical  | 334            | 1.39          | -        | 55.35         | 31.61      | 5.42       | 35.21      |
| PK   | 5.1758G      | 109.76            | Inf               | -Inf           | 1.88           | 3           | Vertical  | 334            | 1.39          | -        | 107.88        | 31.64      | 5.44       | 35.20      |

# VHT20-BF\_Nss1,(MCS0)\_4TX

## 5180MHz\_TX

17/03/2018

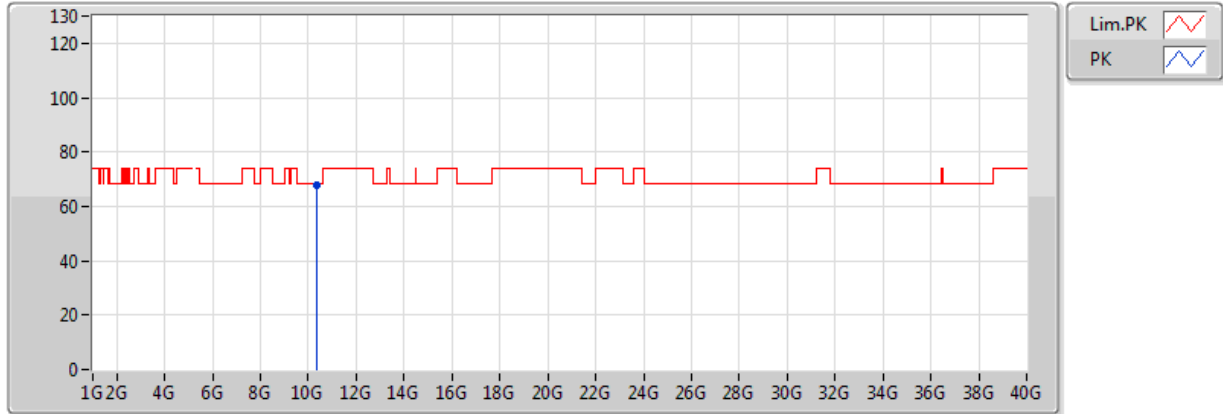


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.1458G      | 45.27             | 54.00             | -8.73          | 1.83           | 3           | Horizontal | 92             | 2.93          | -        | 43.44         | 31.62      | 5.42       | 35.21      |
| AV   | 5.173G       | 95.80             | Inf               | -Inf           | 1.88           | 3           | Horizontal | 92             | 2.93          | -        | 93.92         | 31.64      | 5.44       | 35.20      |
| PK   | 5.1426G      | 55.68             | 74.00             | -18.32         | 1.82           | 3           | Horizontal | 92             | 2.93          | -        | 53.86         | 31.61      | 5.42       | 35.21      |
| PK   | 5.174G       | 102.84            | Inf               | -Inf           | 1.88           | 3           | Horizontal | 92             | 2.93          | -        | 100.96        | 31.64      | 5.44       | 35.20      |

## VHT20-BF\_Nss1,(MCS0)\_4TX

### 5180MHz\_TX

17/03/2018

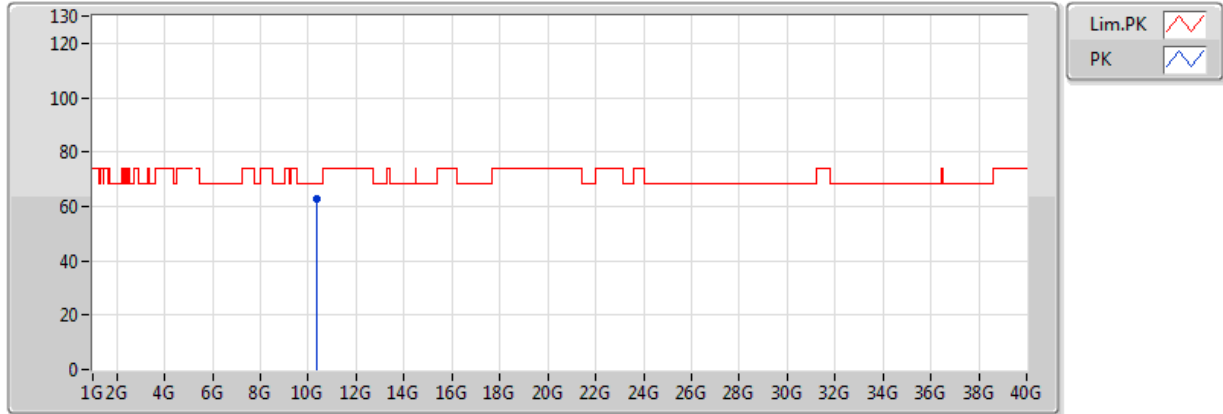


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| PK   | 10.35838G    | 67.58             | 68.20             | -0.62          | 11.59          | 3           | Vertical  | 326            | 1.01          | -        | 55.99         | 39.40      | 8.00       | 35.81      |

## VHT20-BF\_Nss1,(MCS0)\_4TX

### 5180MHz\_TX

17/03/2018

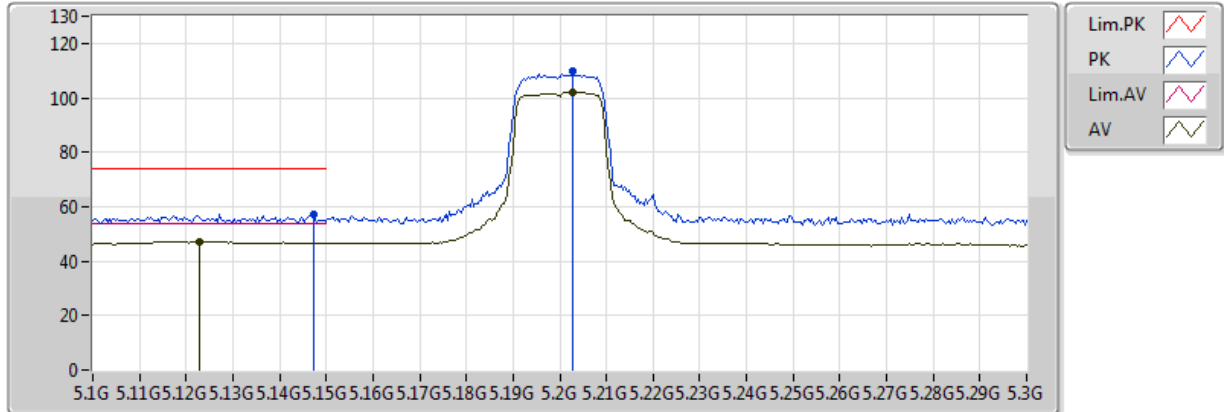


| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|------------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| PK   | 10.3594G | 62.55    | 68.20    | -5.65  | 11.59  | 3    | Horizontal | 145     | 2.06   | -        | 50.96  | 39.40 | 8.00 | 35.81 |

# VHT20-BF\_Nss1,(MCS0)\_4TX

## 5200MHz\_TX

17/03/2018

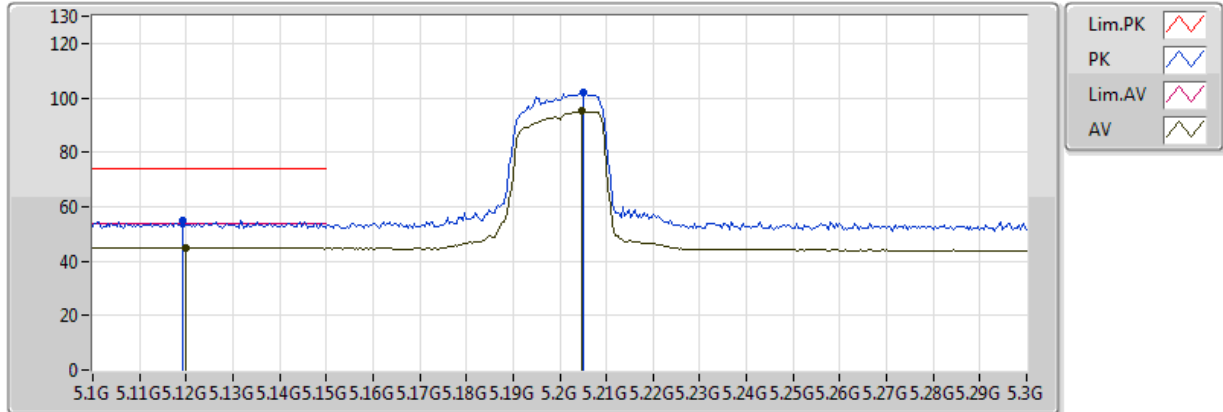


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.1228G      | 47.10             | 54.00             | -6.90          | 1.80           | 3           | Vertical  | 327            | 1.01          | -        | 45.30         | 31.60      | 5.41       | 35.21      |
| AV   | 5.2028G      | 101.94            | Inf               | -Inf           | 1.92           | 3           | Vertical  | 327            | 1.01          | -        | 100.02        | 31.66      | 5.46       | 35.20      |
| PK   | 5.1472G      | 57.06             | 74.00             | -16.94         | 1.83           | 3           | Vertical  | 327            | 1.01          | -        | 55.23         | 31.62      | 5.42       | 35.21      |
| PK   | 5.2028G      | 109.63            | Inf               | -Inf           | 1.92           | 3           | Vertical  | 327            | 1.01          | -        | 107.71        | 31.66      | 5.46       | 35.20      |

# VHT20-BF\_Nss1,(MCS0)\_4TX

## 5200MHz\_TX

17/03/2018

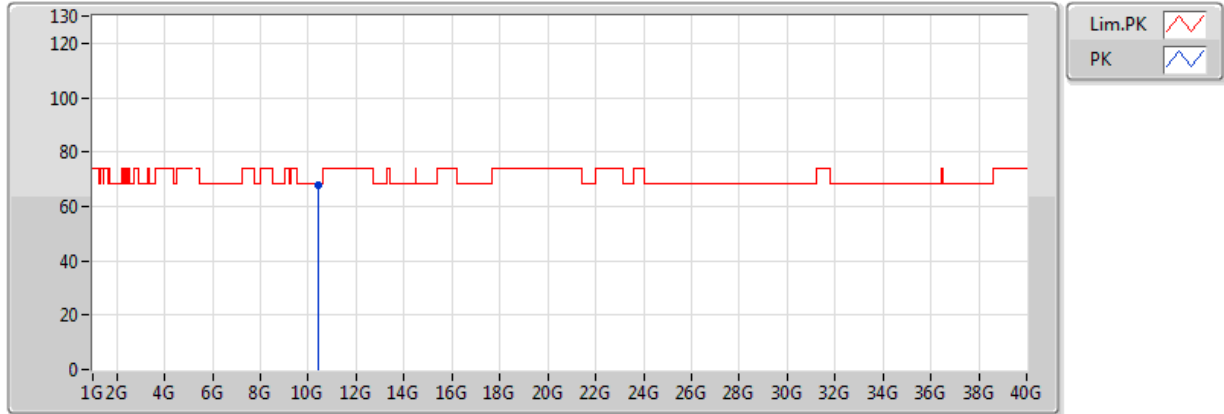


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.12G        | 45.05             | 54.00             | -8.95          | 1.79           | 3           | Horizontal | 92             | 2.92          | -        | 43.26         | 31.60      | 5.40       | 35.21      |
| AV   | 5.2048G      | 95.03             | Inf               | -Inf           | 1.93           | 3           | Horizontal | 92             | 2.92          | -        | 93.10         | 31.66      | 5.46       | 35.20      |
| PK   | 5.1192G      | 54.86             | 74.00             | -19.14         | 1.79           | 3           | Horizontal | 92             | 2.92          | -        | 53.07         | 31.60      | 5.40       | 35.21      |
| PK   | 5.2052G      | 101.93            | Inf               | -Inf           | 1.93           | 3           | Horizontal | 92             | 2.92          | -        | 100.00        | 31.66      | 5.46       | 35.20      |

# VHT20-BF\_Nss1,(MCS0)\_4TX

## 5200MHz\_TX

17/03/2018

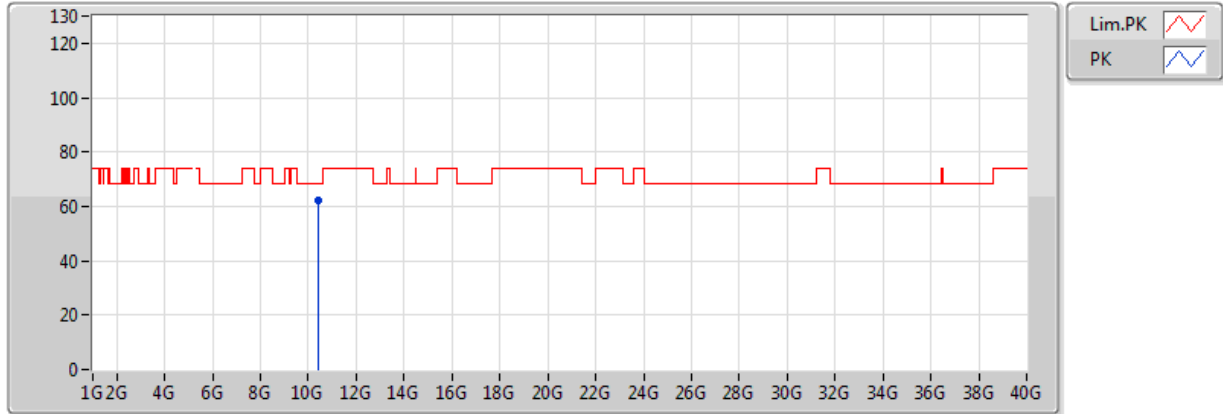


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| PK   | 10.40162G    | 67.78             | 68.20             | -0.42          | 11.69          | 3           | Vertical  | 5              | 2.31          | -        | 56.09         | 39.46      | 8.01       | 35.78      |

## VHT20-BF\_Nss1,(MCS0)\_4TX

### 5200MHz\_TX

17/03/2018

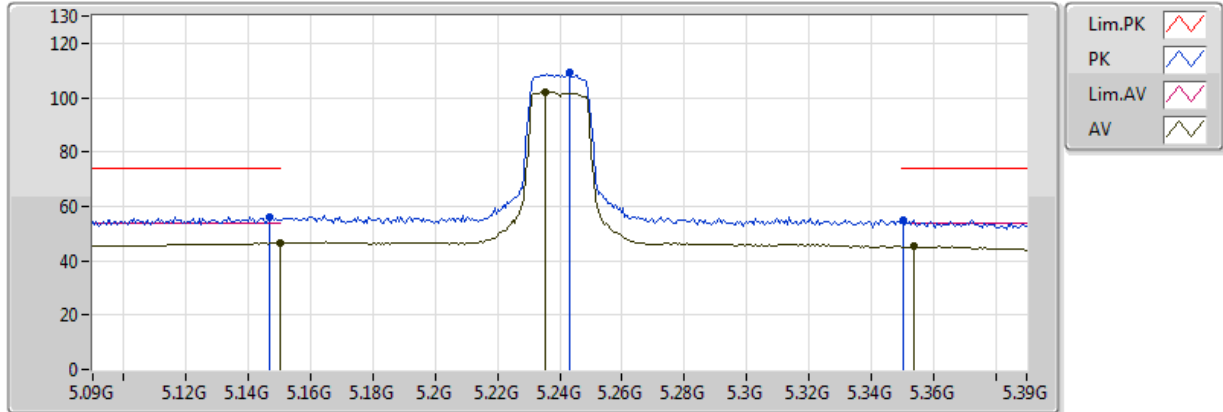


| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|------------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| PK   | 10.4003G | 62.10    | 68.20    | -6.10  | 11.68  | 3    | Horizontal | 216     | 2.91   | -        | 50.42  | 39.46 | 8.01 | 35.78 |

## VHT20-BF\_Nss1,(MCS0)\_4TX

## 5240MHz\_TX

17/03/2018

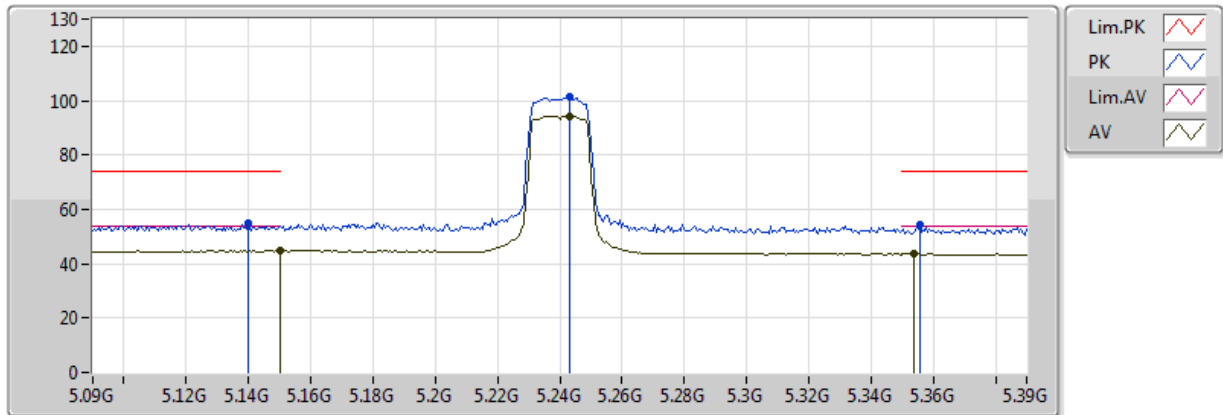


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.149995G    | 46.47             | 54.00             | -7.53          | 1.83           | 3           | Vertical  | 352            | 1.01          | -        | 44.64         | 31.62      | 5.42       | 35.21      |
| AV   | 5.2352G      | 101.95            | Inf               | -Inf           | 1.98           | 3           | Vertical  | 352            | 1.01          | -        | 99.97         | 31.69      | 5.48       | 35.20      |
| AV   | 5.354G       | 45.22             | 54.00             | -8.78          | 2.17           | 3           | Vertical  | 352            | 1.01          | -        | 43.05         | 31.78      | 5.57       | 35.18      |
| PK   | 5.147G       | 56.03             | 74.00             | -17.97         | 1.83           | 3           | Vertical  | 352            | 1.01          | -        | 54.20         | 31.62      | 5.42       | 35.21      |
| PK   | 5.243G       | 109.15            | Inf               | -Inf           | 1.99           | 3           | Vertical  | 352            | 1.01          | -        | 107.16        | 31.69      | 5.49       | 35.20      |
| PK   | 5.3504G      | 54.74             | 74.00             | -19.26         | 2.17           | 3           | Vertical  | 352            | 1.01          | -        | 52.57         | 31.78      | 5.57       | 35.18      |

## VHT20-BF\_Nss1,(MCS0)\_4TX

## 5240MHz\_TX

17/03/2018

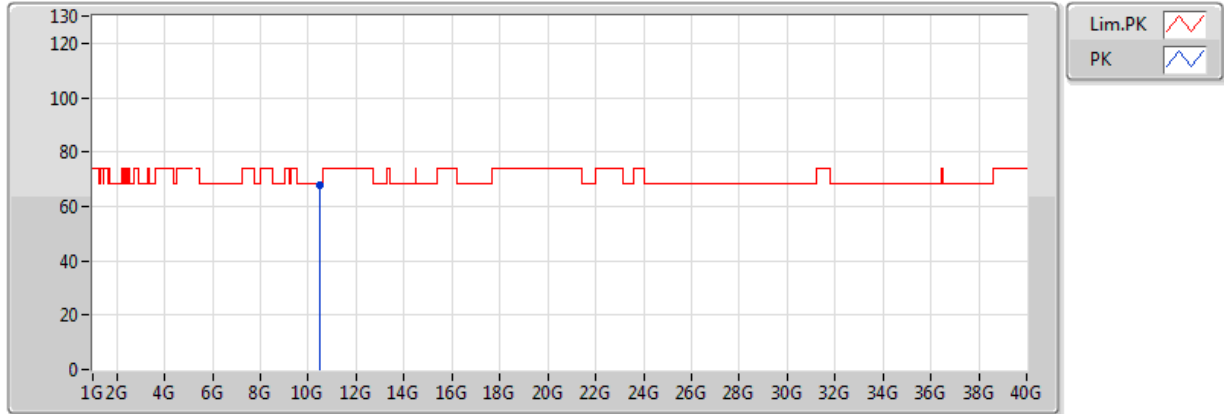


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.149995G    | 44.72             | 54.00             | -9.28          | 1.83           | 3           | Horizontal | 93             | 2.87          | -        | 42.89         | 31.62      | 5.42       | 35.21      |
| AV   | 5.243G       | 94.33             | Inf               | -Inf           | 1.99           | 3           | Horizontal | 93             | 2.87          | -        | 92.34         | 31.69      | 5.49       | 35.20      |
| AV   | 5.354G       | 43.56             | 54.00             | -10.44         | 2.17           | 3           | Horizontal | 93             | 2.87          | -        | 41.39         | 31.78      | 5.57       | 35.18      |
| PK   | 5.1398G      | 54.68             | 74.00             | -19.32         | 1.82           | 3           | Horizontal | 93             | 2.87          | -        | 52.86         | 31.61      | 5.42       | 35.21      |
| PK   | 5.243G       | 101.35            | Inf               | -Inf           | 1.99           | 3           | Horizontal | 93             | 2.87          | -        | 99.36         | 31.69      | 5.49       | 35.20      |
| PK   | 5.3558G      | 54.09             | 74.00             | -19.91         | 2.17           | 3           | Horizontal | 93             | 2.87          | -        | 51.92         | 31.78      | 5.57       | 35.18      |

# VHT20-BF\_Nss1,(MCS0)\_4TX

## 5240MHz\_TX

17/03/2018

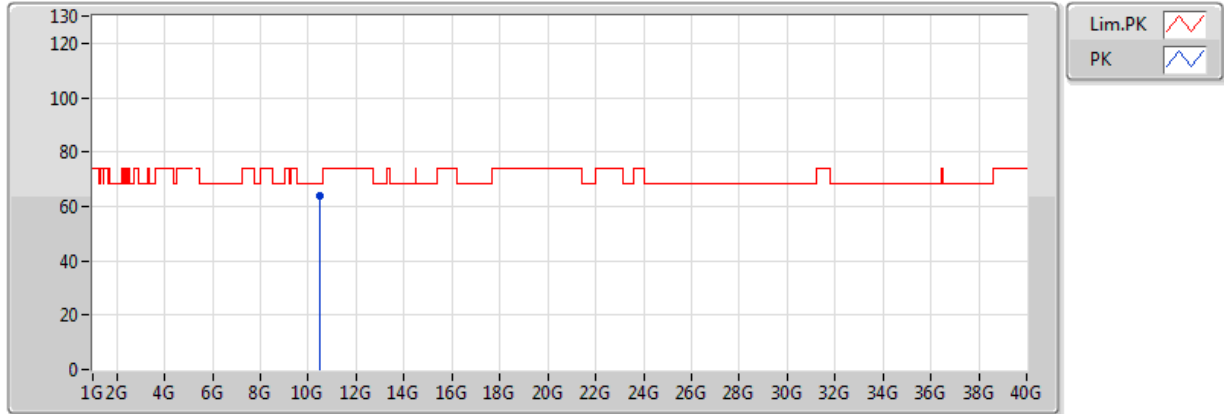


| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|-----------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| PK   | 10.4803G | 67.72    | 68.20    | -0.48  | 11.86  | 3    | Vertical  | 4       | 2.33   | -        | 55.86  | 39.57 | 8.02 | 35.73 |

# VHT20-BF\_Nss1,(MCS0)\_4TX

## 5240MHz\_TX

17/03/2018

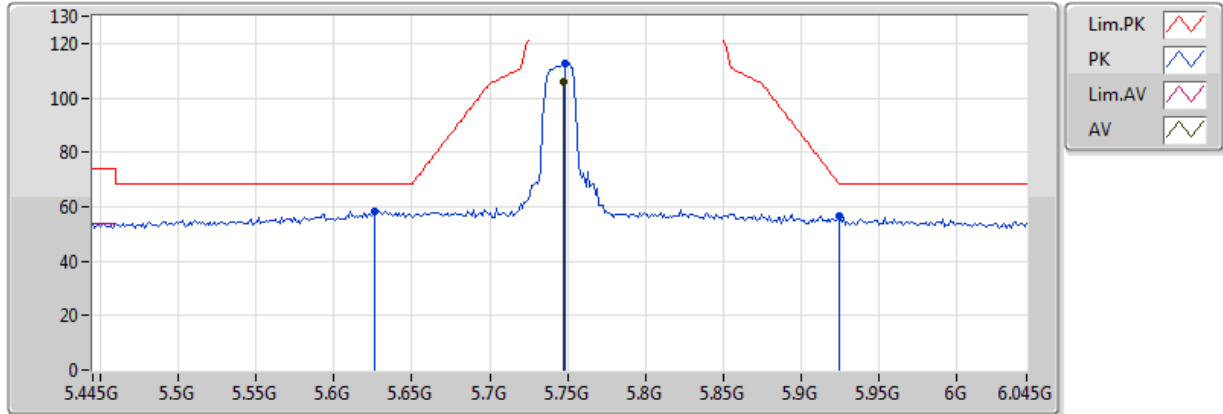


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| PK   | 10.477G      | 63.92             | 68.20             | -4.28          | 11.85          | 3           | Horizontal | 216            | 2.18          | -        | 52.07         | 39.57      | 8.02       | 35.73      |

# VHT20-BF\_Nss1,(MCS0)\_4TX

## 5745MHz\_TX

17/03/2018

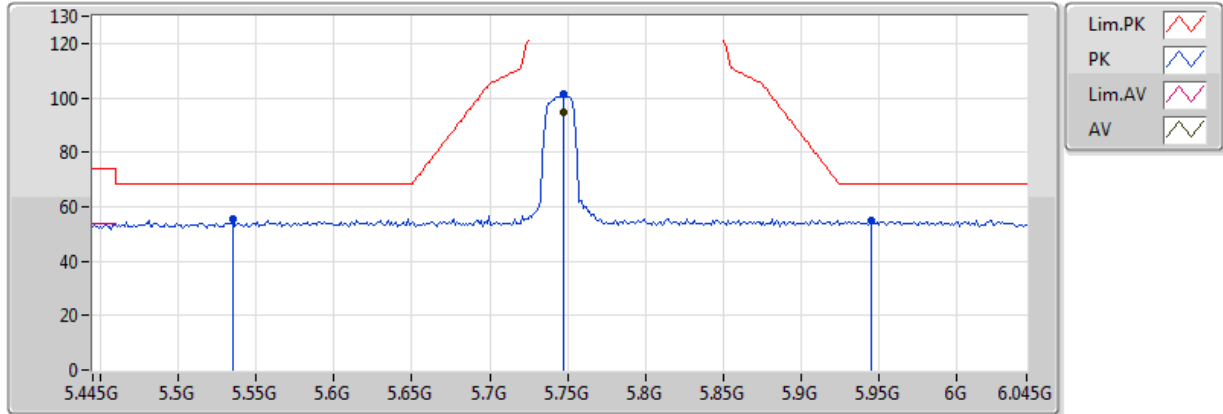


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.7474G      | 106.17            | Inf               | -Inf           | 2.86           | 3           | Vertical  | 340            | 1.10          | -        | 103.31        | 32.20      | 5.84       | 35.18      |
| PK   | 5.6262G      | 58.29             | 68.20             | -9.91          | 2.63           | 3           | Vertical  | 340            | 1.10          | -        | 55.66         | 32.05      | 5.76       | 35.18      |
| PK   | 5.7486G      | 112.89            | Inf               | -Inf           | 2.86           | 3           | Vertical  | 340            | 1.10          | -        | 110.03        | 32.20      | 5.84       | 35.18      |
| PK   | 5.925G       | 56.48             | 68.20             | -11.72         | 3.19           | 3           | Vertical  | 340            | 1.10          | -        | 53.29         | 32.41      | 5.97       | 35.19      |

### VHT20-BF\_Nss1,(MCS0)\_4TX

### 5745MHz\_TX

17/03/2018

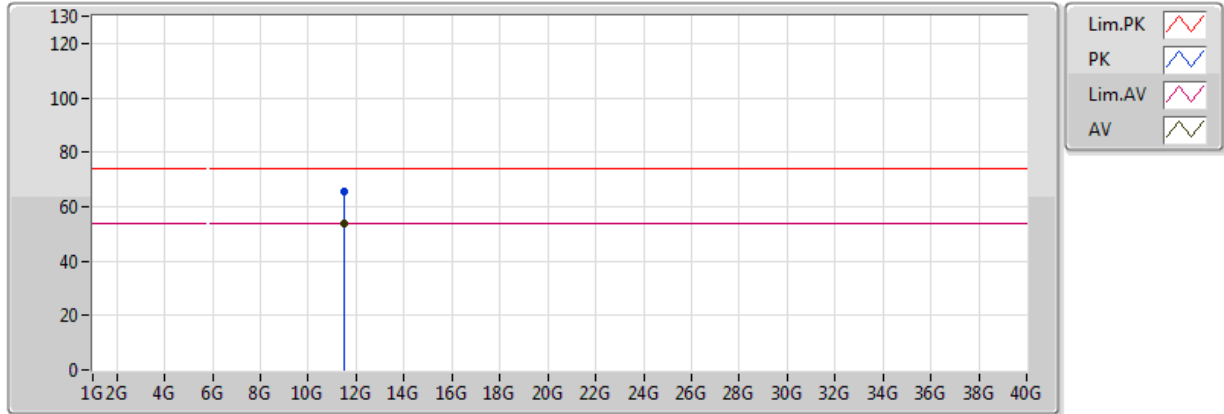


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.7474G      | 94.84             | Inf               | -Inf           | 2.86           | 3           | Horizontal | 164            | 1.44          | -        | 91.98         | 32.20      | 5.84       | 35.18      |
| PK   | 5.535G       | 55.60             | 68.20             | -12.60         | 2.46           | 3           | Horizontal | 164            | 1.44          | -        | 53.14         | 31.94      | 5.69       | 35.17      |
| PK   | 5.7474G      | 101.20            | Inf               | -Inf           | 2.86           | 3           | Horizontal | 164            | 1.44          | -        | 98.34         | 32.20      | 5.84       | 35.18      |
| PK   | 5.9454G      | 54.93             | 68.20             | -13.27         | 3.22           | 3           | Horizontal | 164            | 1.44          | -        | 51.71         | 32.43      | 5.98       | 35.19      |

# VHT20-BF\_Nss1,(MCS0)\_4TX

## 5745MHz\_TX

17/03/2018

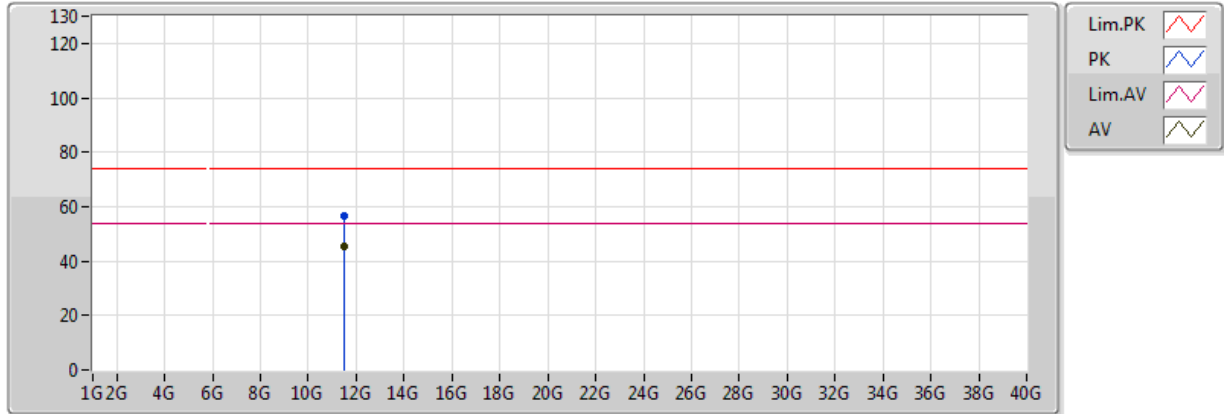


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 11.48994G    | 53.52             | 54.00             | -0.48          | 12.46          | 3           | Vertical  | 2              | 1.08          | -        | 41.06         | 39.57      | 8.37       | 35.48      |
| PK   | 11.49048G    | 65.32             | 74.00             | -8.68          | 12.46          | 3           | Vertical  | 2              | 1.08          | -        | 52.86         | 39.56      | 8.37       | 35.48      |

# VHT20-BF\_Nss1,(MCS0)\_4TX

## 5745MHz\_TX

17/03/2018

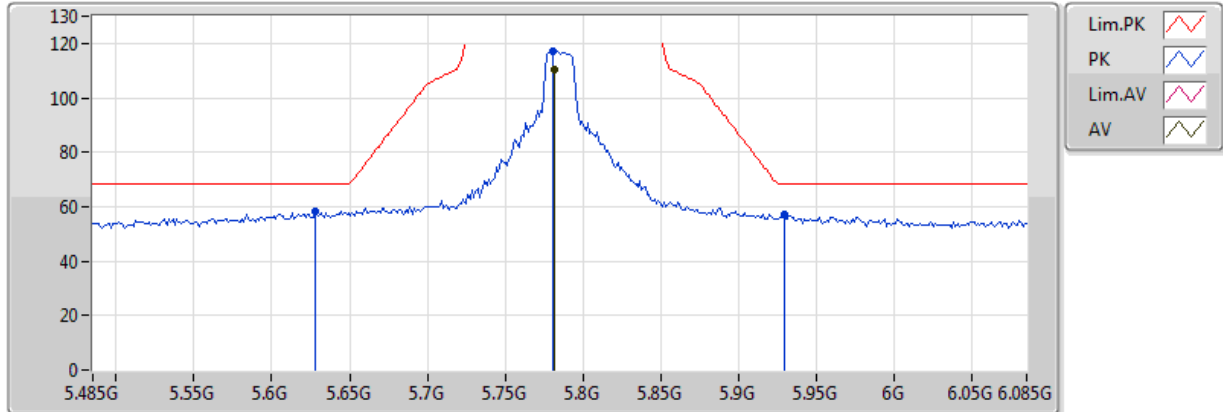


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|-----------|----------|----------|--------|--------|------|------------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 11.49354G | 45.51    | 54.00    | -8.49  | 12.45  | 3    | Horizontal | 330     | 1.34   | -        | 33.06  | 39.56 | 8.37 | 35.48 |
| PK   | 11.49096G | 56.48    | 74.00    | -17.52 | 12.46  | 3    | Horizontal | 330     | 1.34   | -        | 44.02  | 39.56 | 8.37 | 35.48 |

# VHT20-BF\_Nss1,(MCS0)\_4TX

## 5785MHz\_TX

17/03/2018

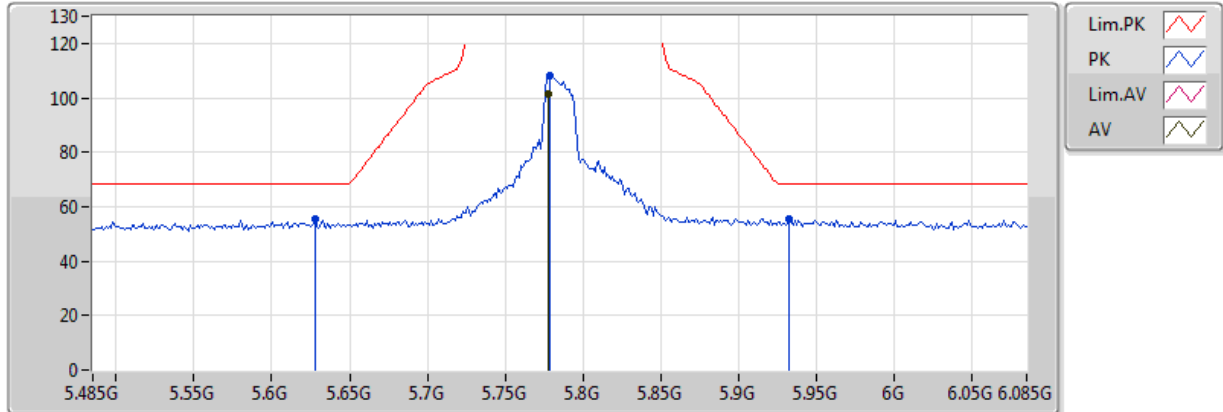


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.7814G      | 110.55            | Inf               | -Inf           | 2.92           | 3           | Vertical  | 346            | 1.01          | -        | 107.63        | 32.24      | 5.87       | 35.19      |
| PK   | 5.6278G      | 58.53             | 68.20             | -9.67          | 2.63           | 3           | Vertical  | 346            | 1.01          | -        | 55.90         | 32.05      | 5.76       | 35.18      |
| PK   | 5.7802G      | 117.15            | Inf               | -Inf           | 2.91           | 3           | Vertical  | 346            | 1.01          | -        | 114.24        | 32.24      | 5.87       | 35.19      |
| PK   | 5.929G       | 56.91             | 68.20             | -11.29         | 3.19           | 3           | Vertical  | 346            | 1.01          | -        | 53.72         | 32.41      | 5.97       | 35.19      |

# VHT20-BF\_Nss1,(MCS0)\_4TX

## 5785MHz\_TX

17/03/2018

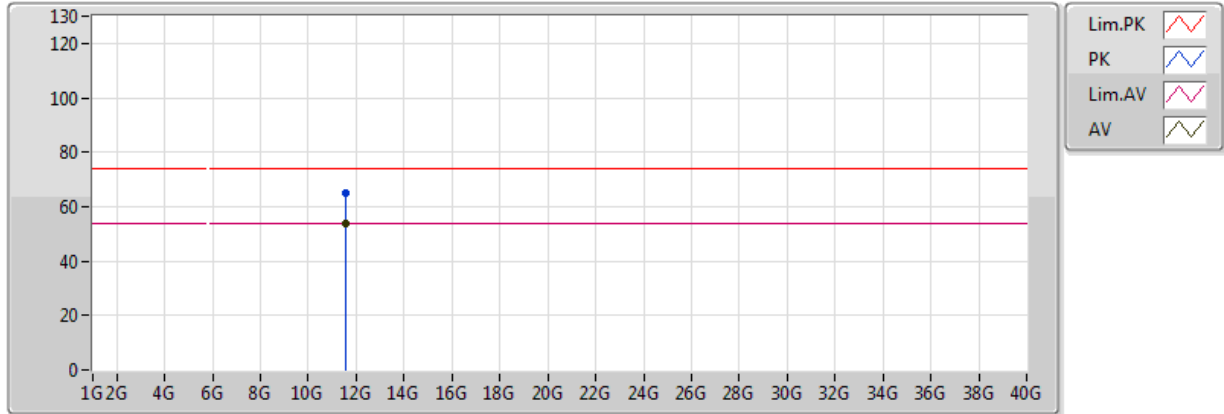


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.7778G      | 101.20            | Inf               | -Inf           | 2.91           | 3           | Horizontal | 82             | 1.08          | -        | 98.29         | 32.23      | 5.86       | 35.19      |
| PK   | 5.6278G      | 55.45             | 68.20             | -12.75         | 2.63           | 3           | Horizontal | 82             | 1.08          | -        | 52.82         | 32.05      | 5.76       | 35.18      |
| PK   | 5.779G       | 108.21            | Inf               | -Inf           | 2.91           | 3           | Horizontal | 82             | 1.08          | -        | 105.30        | 32.23      | 5.87       | 35.19      |
| PK   | 5.9326G      | 55.39             | 68.20             | -12.81         | 3.20           | 3           | Horizontal | 82             | 1.08          | -        | 52.19         | 32.42      | 5.97       | 35.19      |

# VHT20-BF\_Nss1,(MCS0)\_4TX

## 5785MHz\_TX

17/03/2018

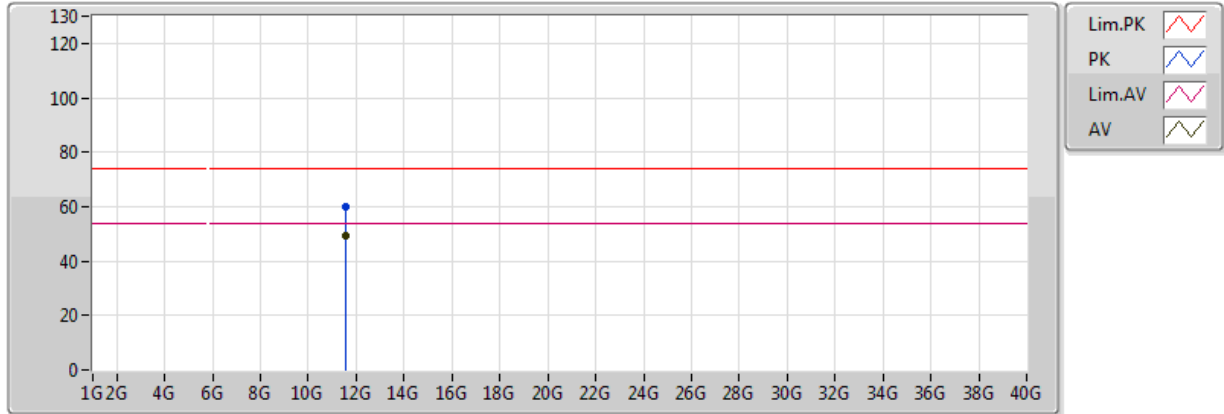


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 11.56976G    | 53.81             | 54.00             | -0.19          | 12.37          | 3           | Vertical  | 163            | 1.00          | -        | 41.44         | 39.45      | 8.41       | 35.49      |
| PK   | 11.56046G    | 64.76             | 74.00             | -9.24          | 12.38          | 3           | Vertical  | 163            | 1.00          | -        | 52.38         | 39.46      | 8.41       | 35.49      |

# VHT20-BF\_Nss1,(MCS0)\_4TX

## 5785MHz\_TX

17/03/2018

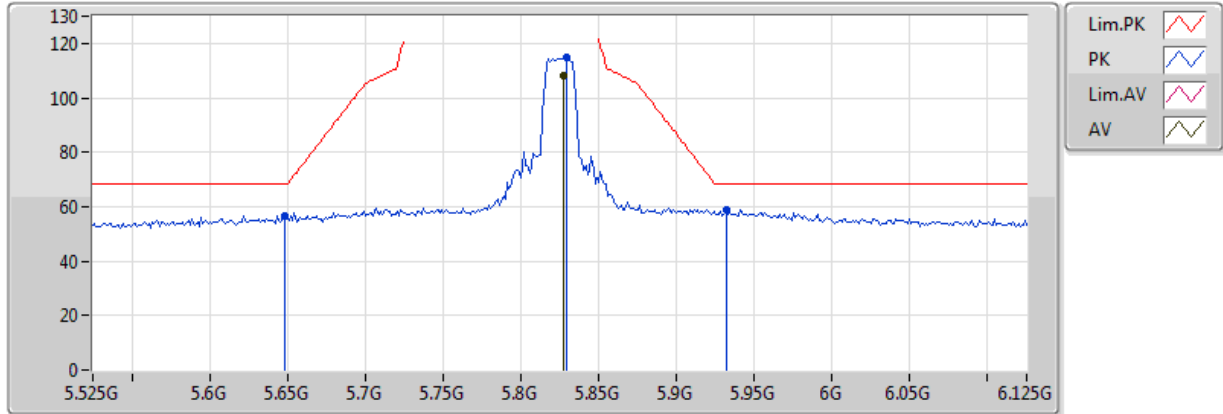


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 11.56982G    | 49.30             | 54.00             | -4.70          | 12.37          | 3           | Horizontal | 216            | 1.05          | -        | 36.93         | 39.45      | 8.41       | 35.49      |
| PK   | 11.56916G    | 60.04             | 74.00             | -13.96         | 12.37          | 3           | Horizontal | 216            | 1.05          | -        | 47.67         | 39.45      | 8.41       | 35.49      |

### VHT20-BF\_Nss1,(MCS0)\_4TX

### 5825MHz\_TX

17/03/2018

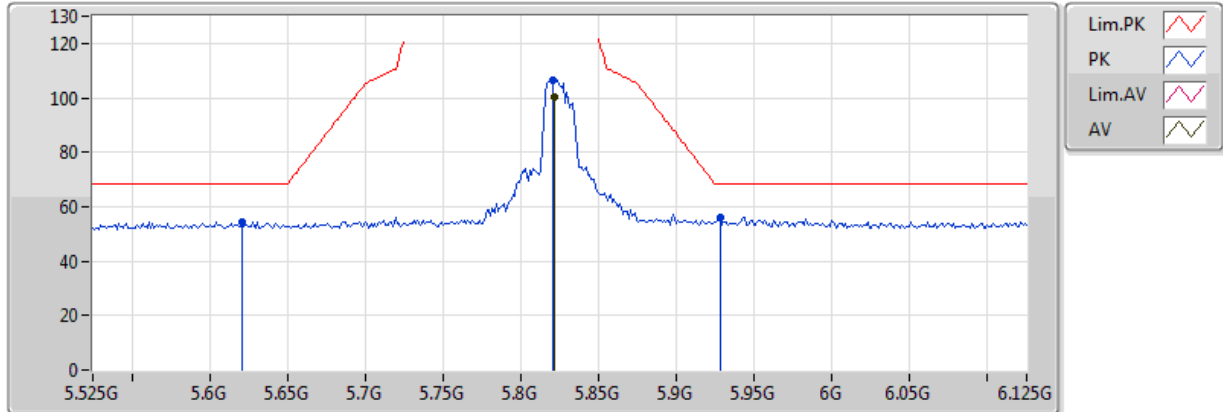


| Type | Freq    | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|---------|----------|----------|--------|--------|------|-----------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)    | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 5.8274G | 108.09   | Inf      | -Inf   | 3.00   | 3    | Vertical  | 343     | 2.55   | -        | 105.09 | 32.29 | 5.90 | 35.19 |
| PK   | 5.6486G | 56.75    | 68.20    | -11.45 | 2.67   | 3    | Vertical  | 343     | 2.55   | -        | 54.08  | 32.08 | 5.77 | 35.18 |
| PK   | 5.8298G | 115.04   | Inf      | -Inf   | 3.01   | 3    | Vertical  | 343     | 2.55   | -        | 112.03 | 32.30 | 5.90 | 35.19 |
| PK   | 5.9318G | 59.04    | 68.20    | -9.16  | 3.20   | 3    | Vertical  | 343     | 2.55   | -        | 55.84  | 32.42 | 5.97 | 35.19 |

### VHT20-BF\_Nss1,(MCS0)\_4TX

### 5825MHz\_TX

17/03/2018

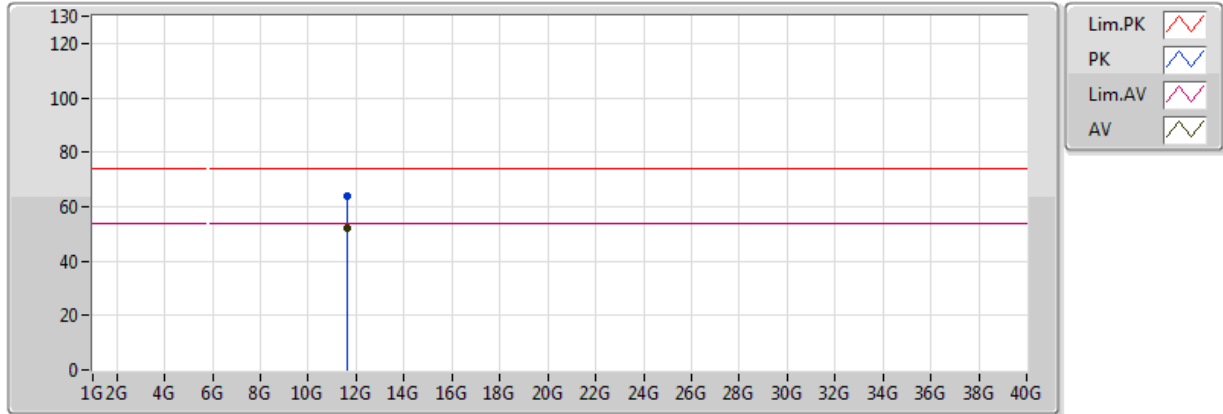


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.8214G      | 100.28            | Inf               | -Inf           | 2.99           | 3           | Horizontal | 72             | 1.06          | -        | 97.29         | 32.29      | 5.89       | 35.19      |
| PK   | 5.621G       | 54.37             | 68.20             | -13.83         | 2.62           | 3           | Horizontal | 72             | 1.06          | -        | 51.75         | 32.05      | 5.75       | 35.18      |
| PK   | 5.8202G      | 106.57            | Inf               | -Inf           | 2.99           | 3           | Horizontal | 72             | 1.06          | -        | 103.58        | 32.28      | 5.89       | 35.19      |
| PK   | 5.9282G      | 56.09             | 68.20             | -12.11         | 3.19           | 3           | Horizontal | 72             | 1.06          | -        | 52.90         | 32.41      | 5.97       | 35.19      |

# VHT20-BF\_Nss1,(MCS0)\_4TX

## 5825MHz\_TX

17/03/2018

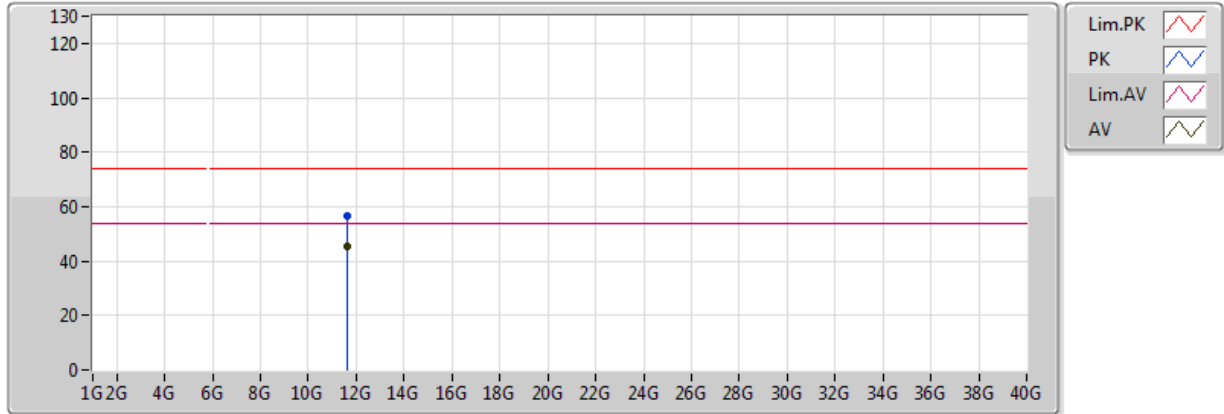


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 11.64688G    | 51.91             | 54.00             | -2.09          | 12.28          | 3           | Vertical  | 168            | 2.15          | -        | 39.63         | 39.33      | 8.46       | 35.51      |
| PK   | 11.64598G    | 63.76             | 74.00             | -10.24         | 12.28          | 3           | Vertical  | 168            | 2.15          | -        | 51.48         | 39.33      | 8.46       | 35.51      |

# VHT20-BF\_Nss1,(MCS0)\_4TX

## 5825MHz\_TX

17/03/2018

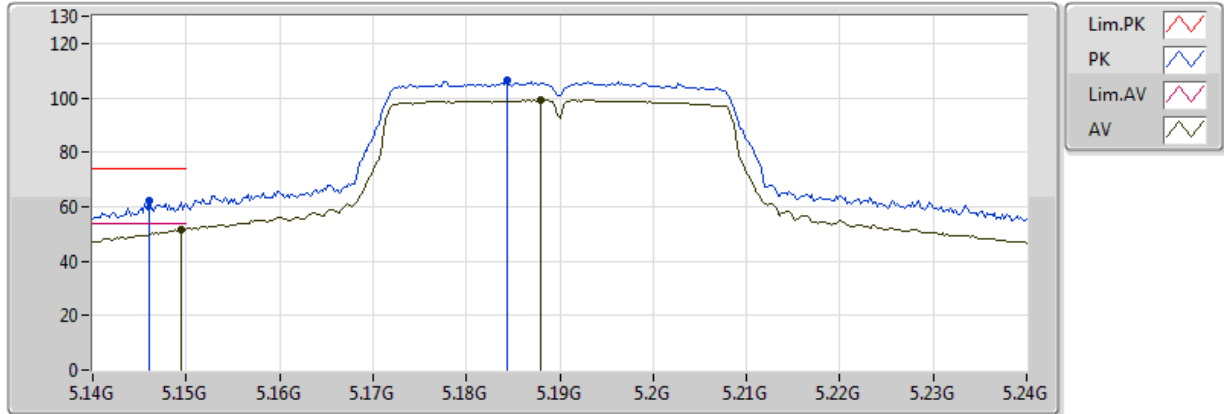


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 11.65426G    | 45.58             | 54.00             | -8.42          | 12.27          | 3           | Horizontal | 4              | 2.21          | -        | 33.31         | 39.32      | 8.46       | 35.51      |
| PK   | 11.65354G    | 56.86             | 74.00             | -17.14         | 12.27          | 3           | Horizontal | 4              | 2.21          | -        | 44.59         | 39.32      | 8.46       | 35.51      |

# VHT40-BF\_Nss1,(MCS0)\_4TX

## 5190MHz\_TX

17/03/2018

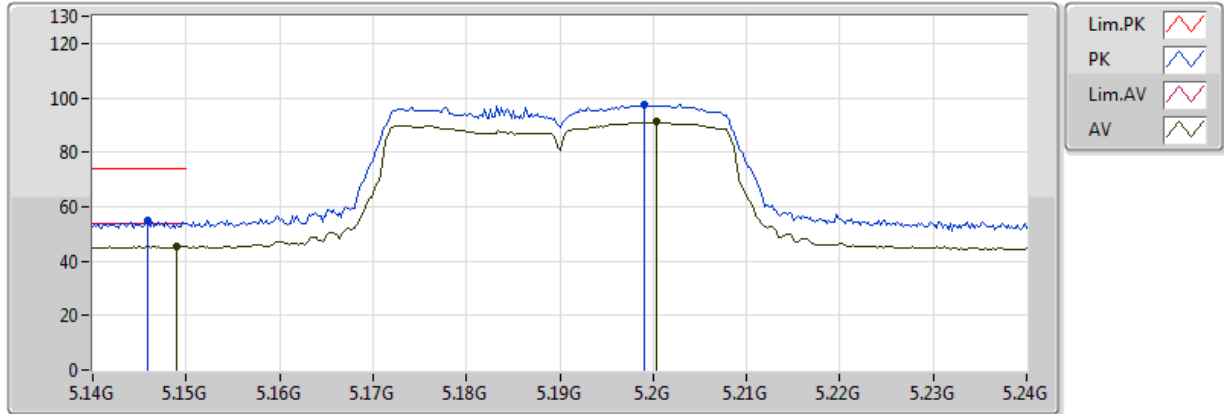


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.1494G      | 51.54             | 54.00             | -2.46          | 1.83           | 3           | Vertical  | 338            | 1.01          | -        | 49.71         | 31.62      | 5.42       | 35.21      |
| AV   | 5.188G       | 99.11             | Inf               | -Inf           | 1.90           | 3           | Vertical  | 338            | 1.01          | -        | 97.21         | 31.65      | 5.45       | 35.20      |
| PK   | 5.146G       | 61.94             | 74.00             | -12.06         | 1.83           | 3           | Vertical  | 338            | 1.01          | -        | 60.11         | 31.62      | 5.42       | 35.21      |
| PK   | 5.1844G      | 106.33            | Inf               | -Inf           | 1.90           | 3           | Vertical  | 338            | 1.01          | -        | 104.43        | 31.65      | 5.45       | 35.20      |

# VHT40-BF\_Nss1,(MCS0)\_4TX

## 5190MHz\_TX

17/03/2018

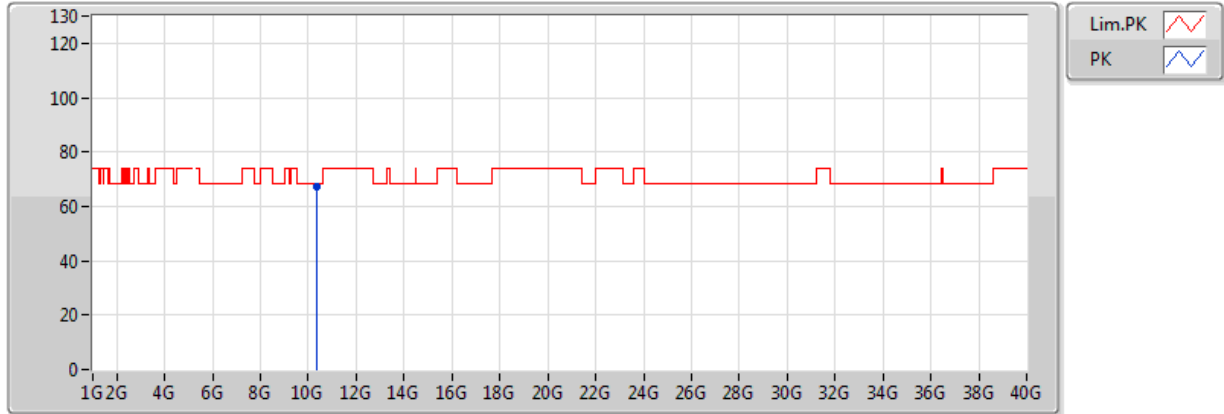


| Type | Freq    | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|---------|----------|----------|--------|--------|------|------------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)    | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 5.149G  | 45.45    | 54.00    | -8.55  | 1.83   | 3    | Horizontal | 97      | 2.58   | -        | 43.62  | 31.62 | 5.42 | 35.21 |
| AV   | 5.2004G | 91.11    | Inf      | -Inf   | 1.92   | 3    | Horizontal | 97      | 2.58   | -        | 89.19  | 31.66 | 5.46 | 35.20 |
| PK   | 5.1458G | 55.04    | 74.00    | -18.96 | 1.83   | 3    | Horizontal | 97      | 2.58   | -        | 53.21  | 31.62 | 5.42 | 35.21 |
| PK   | 5.199G  | 97.78    | Inf      | -Inf   | 1.92   | 3    | Horizontal | 97      | 2.58   | -        | 95.86  | 31.66 | 5.46 | 35.20 |

# VHT40-BF\_Nss1,(MCS0)\_4TX

## 5190MHz\_TX

17/03/2018

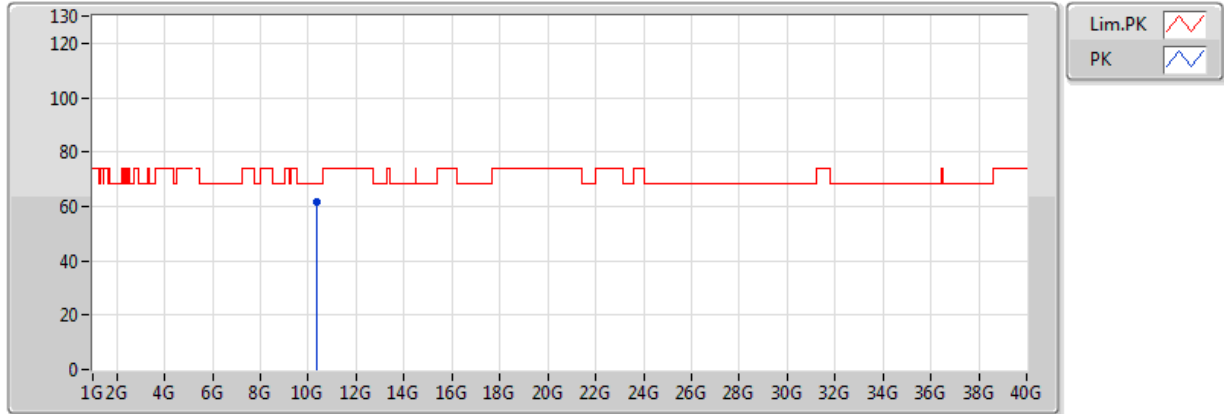


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|-----------|----------|----------|--------|--------|------|-----------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| PK   | 10.37808G | 67.09    | 68.20    | -1.11  | 11.64  | 3    | Vertical  | 14      | 1.00   | -        | 55.45  | 39.43 | 8.00 | 35.80 |

# VHT40-BF\_Nss1,(MCS0)\_4TX

## 5190MHz\_TX

17/03/2018

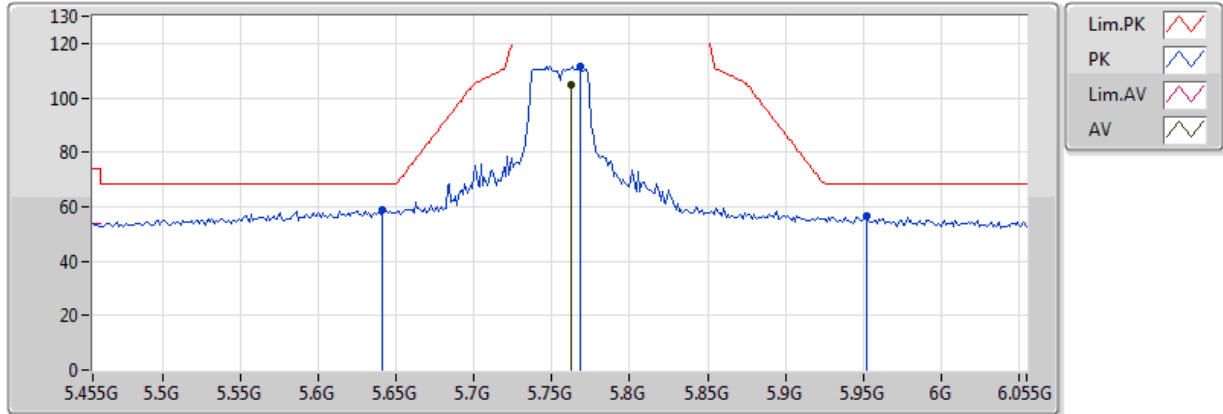


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|-----------|----------|----------|--------|--------|------|------------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| PK   | 10.38054G | 61.63    | 68.20    | -6.57  | 11.64  | 3    | Horizontal | 190     | 2.34   | -        | 49.99  | 39.43 | 8.00 | 35.80 |

## VHT40-BF\_Nss1,(MCS0)\_4TX

## 5755MHz\_TX

17/03/2018

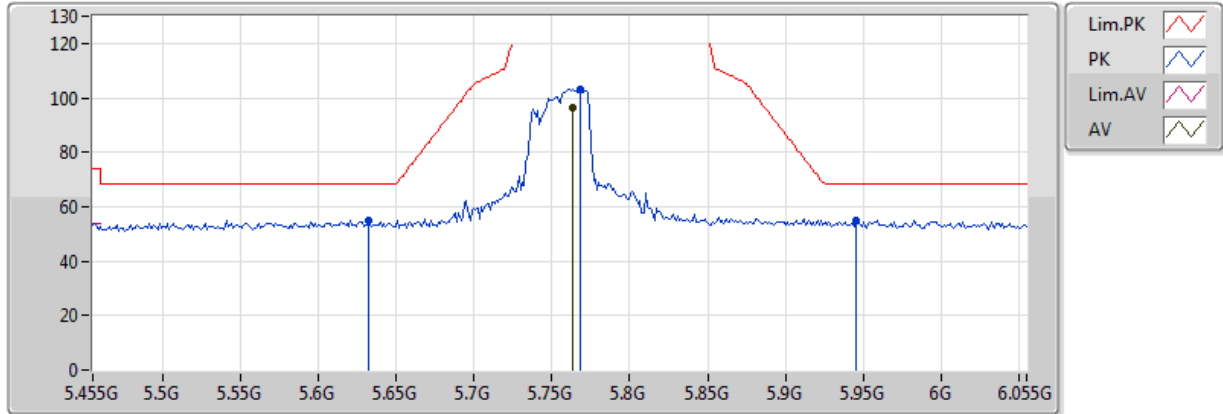


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.7622G      | 104.79            | Inf               | -Inf           | 2.88           | 3           | Vertical  | 342            | 1.00          | -        | 101.91        | 32.21      | 5.85       | 35.19      |
| PK   | 5.641G       | 59.01             | 68.20             | -9.19          | 2.66           | 3           | Vertical  | 342            | 1.00          | -        | 56.35         | 32.07      | 5.77       | 35.18      |
| PK   | 5.7682G      | 111.72            | Inf               | -Inf           | 2.89           | 3           | Vertical  | 342            | 1.00          | -        | 108.83        | 32.22      | 5.86       | 35.19      |
| PK   | 5.9518G      | 56.62             | 68.20             | -11.58         | 3.23           | 3           | Vertical  | 342            | 1.00          | -        | 53.39         | 32.44      | 5.99       | 35.20      |

# VHT40-BF\_Nss1,(MCS0)\_4TX

## 5755MHz\_TX

17/03/2018

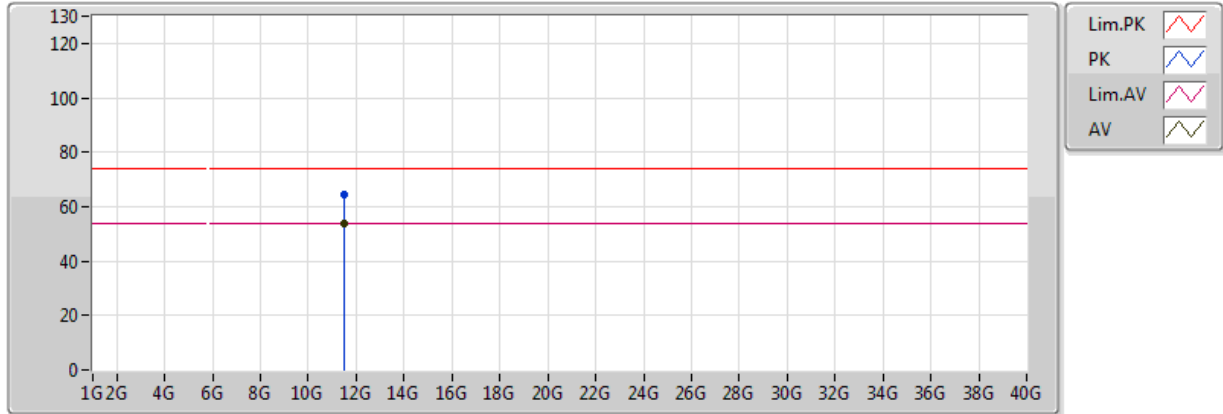


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.7634G      | 96.55             | Inf               | -Inf           | 2.88           | 3           | Horizontal | 77             | 1.09          | -        | 93.67         | 32.22      | 5.85       | 35.19      |
| PK   | 5.6326G      | 55.14             | 68.20             | -13.06         | 2.64           | 3           | Horizontal | 77             | 1.09          | -        | 52.50         | 32.06      | 5.76       | 35.18      |
| PK   | 5.7682G      | 103.02            | Inf               | -Inf           | 2.89           | 3           | Horizontal | 77             | 1.09          | -        | 100.13        | 32.22      | 5.86       | 35.19      |
| PK   | 5.9458G      | 54.94             | 68.20             | -13.26         | 3.22           | 3           | Horizontal | 77             | 1.09          | -        | 51.72         | 32.43      | 5.98       | 35.19      |

# VHT40-BF\_Nss1,(MCS0)\_4TX

## 5755MHz\_TX

17/03/2018

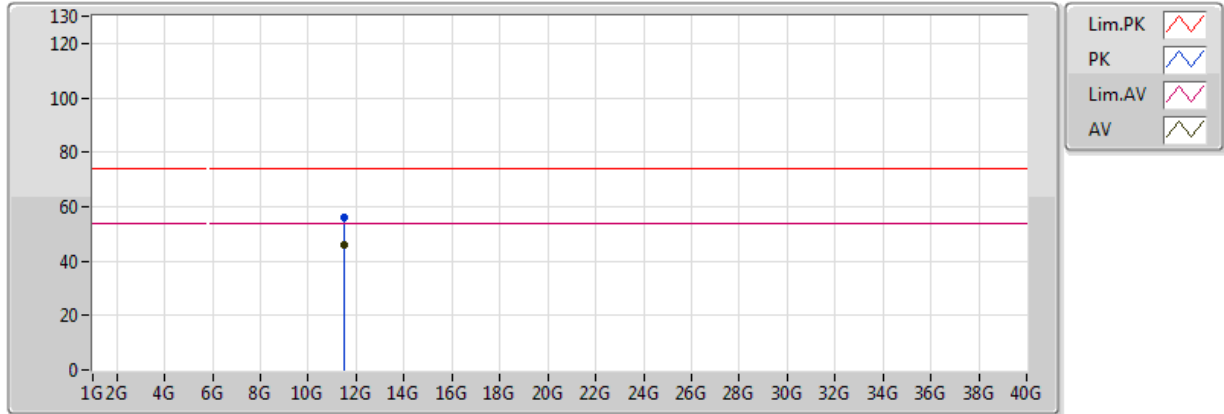


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 11.50952G    | 53.75             | 54.00             | -0.25          | 12.43          | 3           | Vertical  | 2              | 1.18          | -        | 41.32         | 39.54      | 8.38       | 35.48      |
| PK   | 11.51066G    | 64.45             | 74.00             | -9.55          | 12.43          | 3           | Vertical  | 2              | 1.18          | -        | 52.02         | 39.53      | 8.38       | 35.48      |

# VHT40-BF\_Nss1,(MCS0)\_4TX

## 5755MHz\_TX

17/03/2018

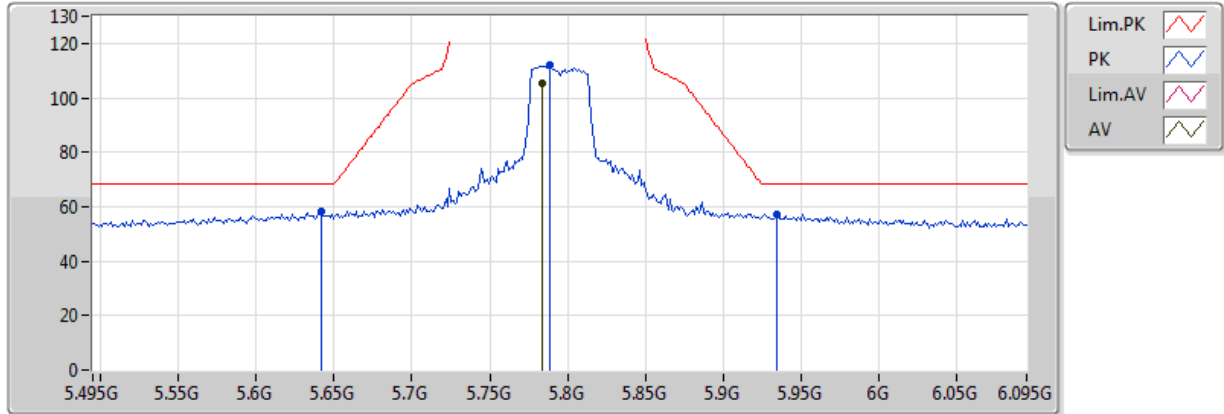


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 11.51666G    | 46.00             | 54.00             | -8.00          | 12.43          | 3           | Horizontal | 334            | 2.24          | -        | 33.57         | 39.53      | 8.38       | 35.48      |
| PK   | 11.51546G    | 56.13             | 74.00             | -17.87         | 12.43          | 3           | Horizontal | 334            | 2.24          | -        | 43.70         | 39.53      | 8.38       | 35.48      |

# VHT40-BF\_Nss1,(MCS0)\_4TX

## 5795MHz\_TX

17/03/2018

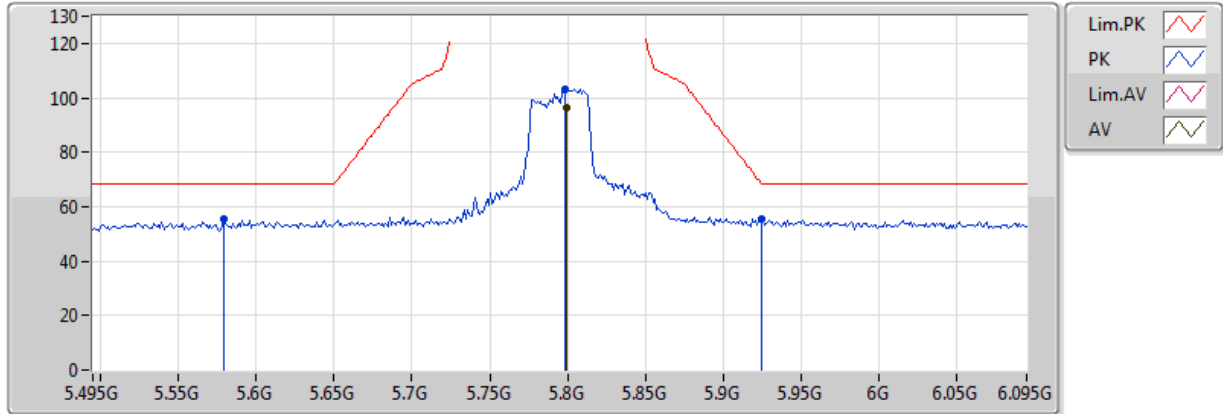


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.7842G      | 105.34            | Inf               | -Inf           | 2.92           | 3           | Vertical  | 343            | 1.06          | -        | 102.42        | 32.24      | 5.87       | 35.19      |
| PK   | 5.6414G      | 58.22             | 68.20             | -9.98          | 2.66           | 3           | Vertical  | 343            | 1.06          | -        | 55.56         | 32.07      | 5.77       | 35.18      |
| PK   | 5.789G       | 112.11            | Inf               | -Inf           | 2.93           | 3           | Vertical  | 343            | 1.06          | -        | 109.18        | 32.25      | 5.87       | 35.19      |
| PK   | 5.9342G      | 57.37             | 68.20             | -10.83         | 3.20           | 3           | Vertical  | 343            | 1.06          | -        | 54.17         | 32.42      | 5.97       | 35.19      |

## VHT40-BF\_Nss1,(MCS0)\_4TX

## 5795MHz\_TX

17/03/2018

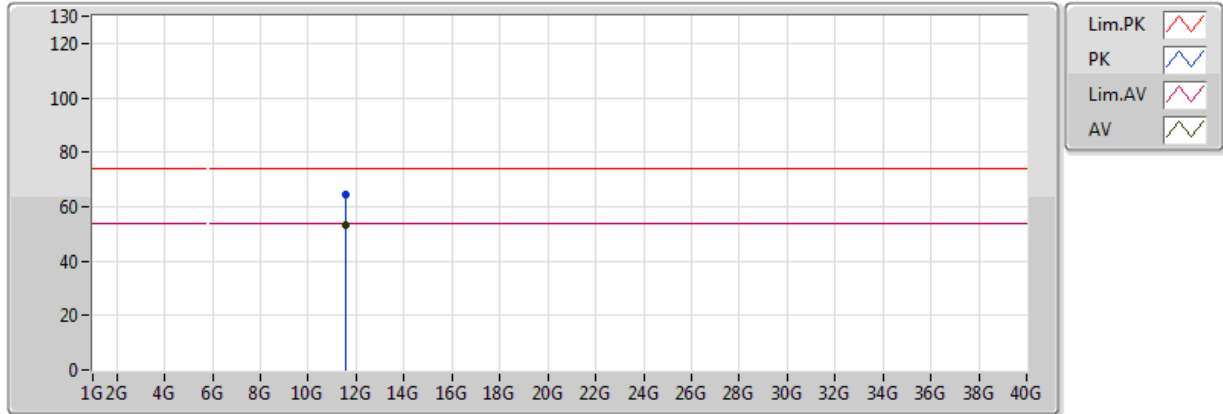


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.7998G      | 96.64             | Inf               | -Inf           | 2.95           | 3           | Horizontal | 72             | 1.03          | -        | 93.69         | 32.26      | 5.88       | 35.19      |
| PK   | 5.579G       | 55.23             | 68.20             | -12.97         | 2.54           | 3           | Horizontal | 72             | 1.03          | -        | 52.69         | 31.99      | 5.73       | 35.18      |
| PK   | 5.7986G      | 102.92            | Inf               | -Inf           | 2.95           | 3           | Horizontal | 72             | 1.03          | -        | 99.97         | 32.26      | 5.88       | 35.19      |
| PK   | 5.9246G      | 55.39             | 68.50             | -13.11         | 3.19           | 3           | Horizontal | 72             | 1.03          | -        | 52.20         | 32.41      | 5.97       | 35.19      |

# VHT40-BF\_Nss1,(MCS0)\_4TX

## 5795MHz\_TX

17/03/2018

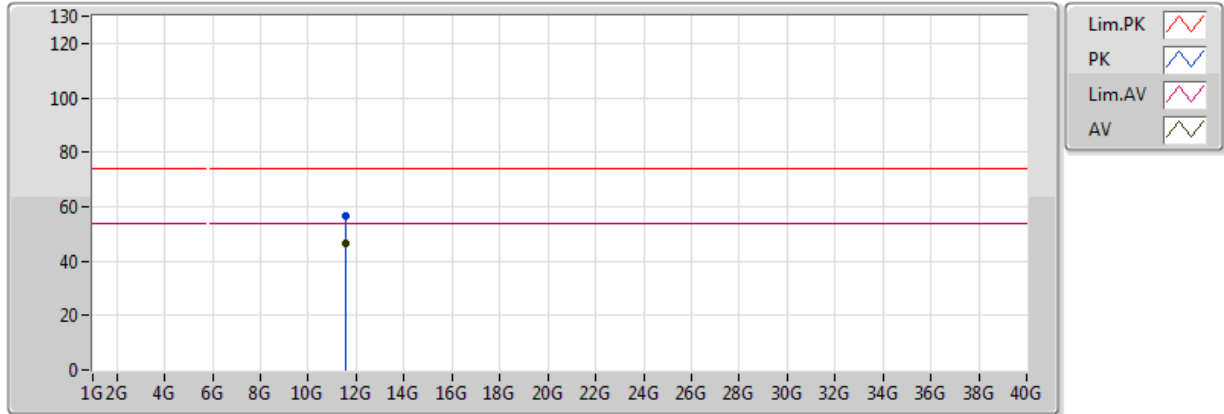


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 11.59024G    | 53.09             | 54.00             | -0.91          | 12.34          | 3           | Vertical  | 12             | 1.03          | -        | 40.75         | 39.41      | 8.43       | 35.50      |
| PK   | 11.59078G    | 64.19             | 74.00             | -9.81          | 12.34          | 3           | Vertical  | 12             | 1.03          | -        | 51.85         | 39.41      | 8.43       | 35.50      |

# VHT40-BF\_Nss1,(MCS0)\_4TX

## 5795MHz\_TX

17/03/2018

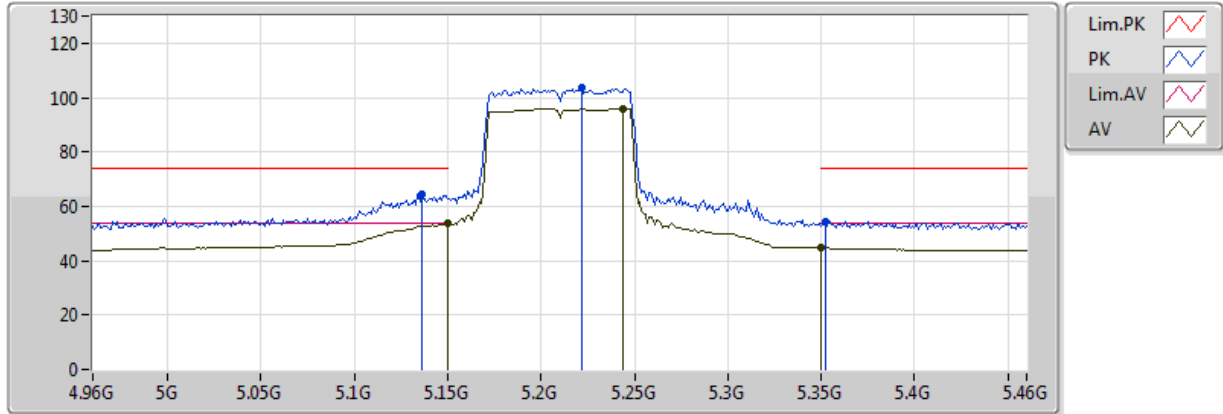


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|-----------|----------|----------|--------|--------|------|------------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 11.59018G | 46.23    | 54.00    | -7.77  | 12.34  | 3    | Horizontal | 333     | 2.13   | -        | 33.89  | 39.41 | 8.43 | 35.50 |
| PK   | 11.59G    | 56.58    | 74.00    | -17.42 | 12.34  | 3    | Horizontal | 333     | 2.13   | -        | 44.24  | 39.41 | 8.43 | 35.50 |

## VHT80-BF\_Nss1,(MCS0)\_4TX

## 5210MHz\_TX

17/03/2018

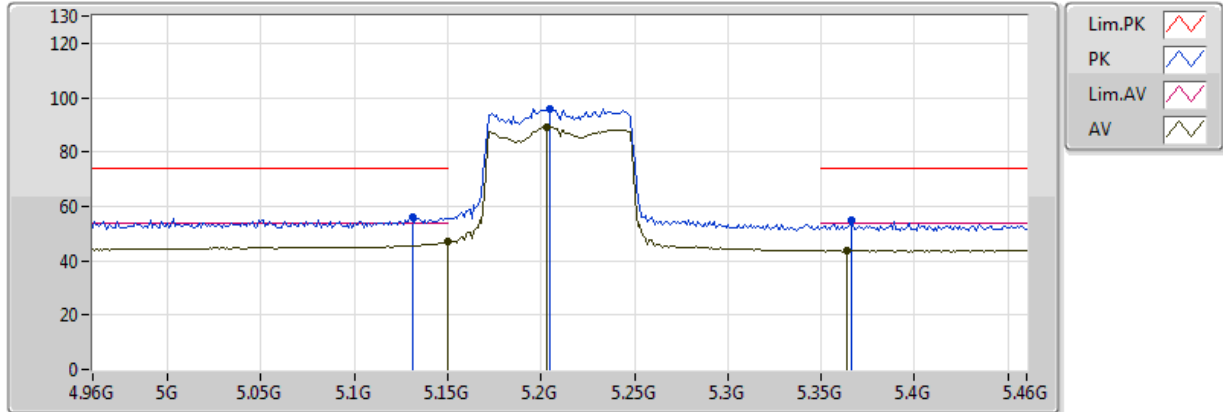


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.244G       | 95.93             | Inf               | -Inf           | 1.99           | 3           | Vertical  | 333            | 1.27          | -        | 93.94         | 31.70      | 5.49       | 35.20      |
| PK   | 5.136G       | 64.42             | 74.00             | -9.58          | 1.82           | 3           | Vertical  | 333            | 1.27          | -        | 62.60         | 31.61      | 5.42       | 35.21      |
| PK   | 5.222G       | 103.39            | Inf               | -Inf           | 1.96           | 3           | Vertical  | 333            | 1.27          | -        | 101.43        | 31.68      | 5.48       | 35.20      |
| PK   | 5.352G       | 54.58             | 74.00             | -19.42         | 2.17           | 3           | Vertical  | 333            | 1.27          | -        | 52.41         | 31.78      | 5.57       | 35.18      |
| AV   | 5.149995G    | 53.83             | 54.00             | -0.17          | 1.83           | 3           | Vertical  | 333            | 1.27          | -        | 52.00         | 31.62      | 5.42       | 35.21      |
| AV   | 5.350005G    | 44.65             | 54.00             | -9.35          | 2.17           | 3           | Vertical  | 333            | 1.27          | -        | 42.48         | 31.78      | 5.57       | 35.18      |

# VHT80-BF\_Nss1,(MCS0)\_4TX

## 5210MHz\_TX

17/03/2018

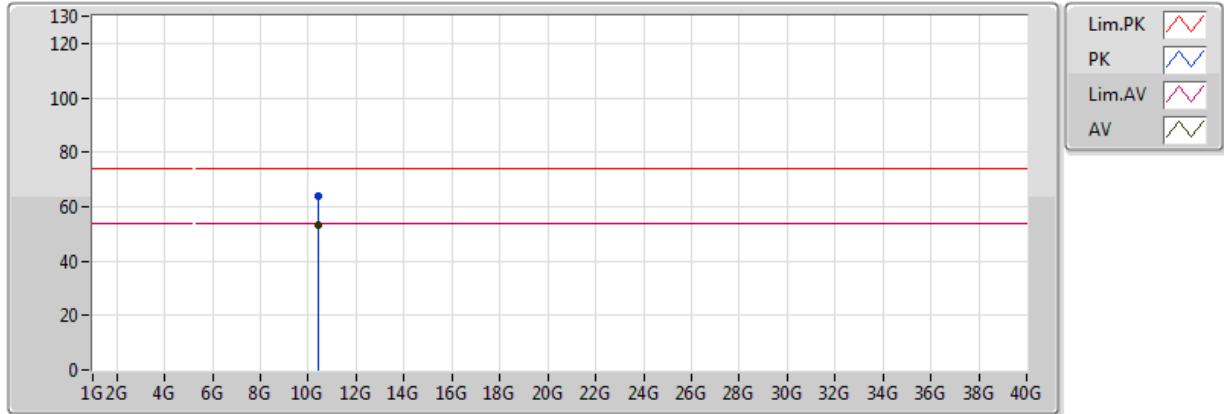


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.149995G    | 47.13             | 54.00             | -6.87          | 1.83           | 3           | Horizontal | 93             | 2.48          | -        | 45.30         | 31.62      | 5.42       | 35.21      |
| AV   | 5.203G       | 89.35             | Inf               | -Inf           | 1.92           | 3           | Horizontal | 93             | 2.48          | -        | 87.43         | 31.66      | 5.46       | 35.20      |
| AV   | 5.364G       | 43.76             | 54.00             | -10.24         | 2.18           | 3           | Horizontal | 93             | 2.48          | -        | 41.58         | 31.79      | 5.57       | 35.18      |
| PK   | 5.131G       | 56.22             | 74.00             | -17.78         | 1.80           | 3           | Horizontal | 93             | 2.48          | -        | 54.42         | 31.60      | 5.41       | 35.21      |
| PK   | 5.205G       | 96.01             | Inf               | -Inf           | 1.93           | 3           | Horizontal | 93             | 2.48          | -        | 94.08         | 31.66      | 5.46       | 35.20      |
| PK   | 5.366G       | 54.73             | 74.00             | -19.27         | 2.19           | 3           | Horizontal | 93             | 2.48          | -        | 52.54         | 31.79      | 5.58       | 35.18      |

# VHT80-BF\_Nss1,(MCS0)\_4TX

## 5210MHz\_TX

17/03/2018

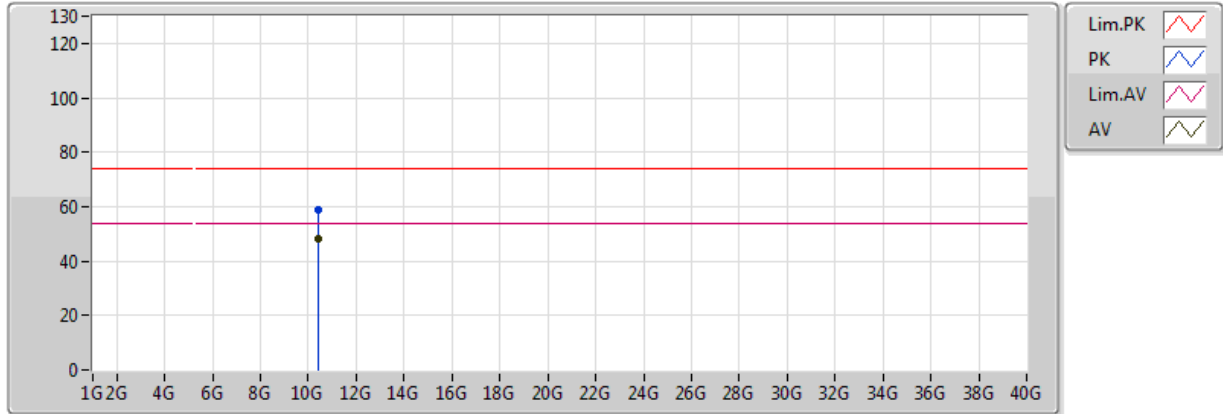


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 10.42552G    | 53.25             | 54.00             | -0.75          | 11.74          | 3           | Vertical  | 4              | 2.31          | -        | 41.51         | 39.50      | 8.01       | 35.76      |
| PK   | 10.42402G    | 63.75             | 74.00             | -10.25         | 11.74          | 3           | Vertical  | 4              | 2.31          | -        | 52.01         | 39.49      | 8.01       | 35.77      |

## VHT80-BF\_Nss1,(MCS0)\_4TX

### 5210MHz\_TX

17/03/2018

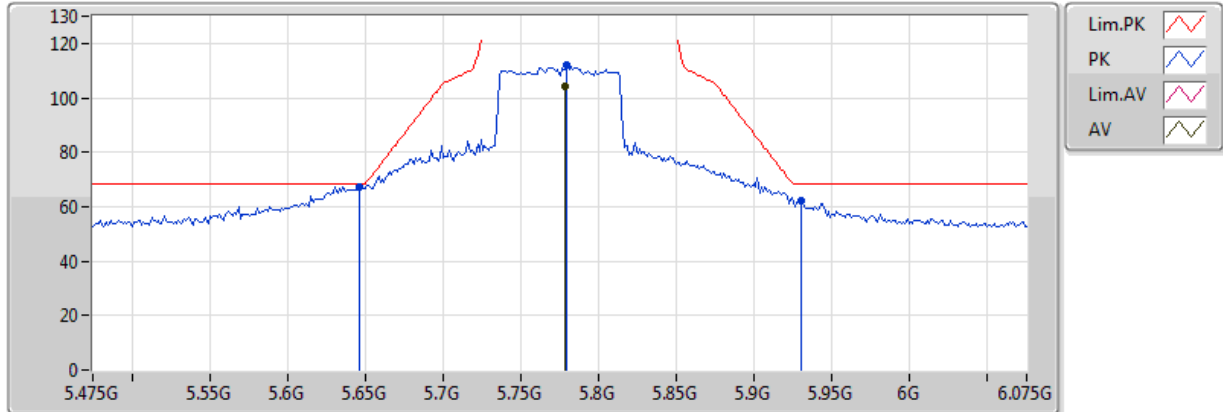


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 10.41958G    | 48.07             | 54.00             | -5.93          | 11.73          | 3           | Horizontal | 192            | 2.69          | -        | 36.34         | 39.49      | 8.01       | 35.77      |
| PK   | 10.41172G    | 58.79             | 74.00             | -15.21         | 11.71          | 3           | Horizontal | 192            | 2.69          | -        | 47.08         | 39.48      | 8.01       | 35.77      |

### VHT80-BF\_Nss1,(MCS0)\_4TX

### 5775MHz\_TX

17/03/2018

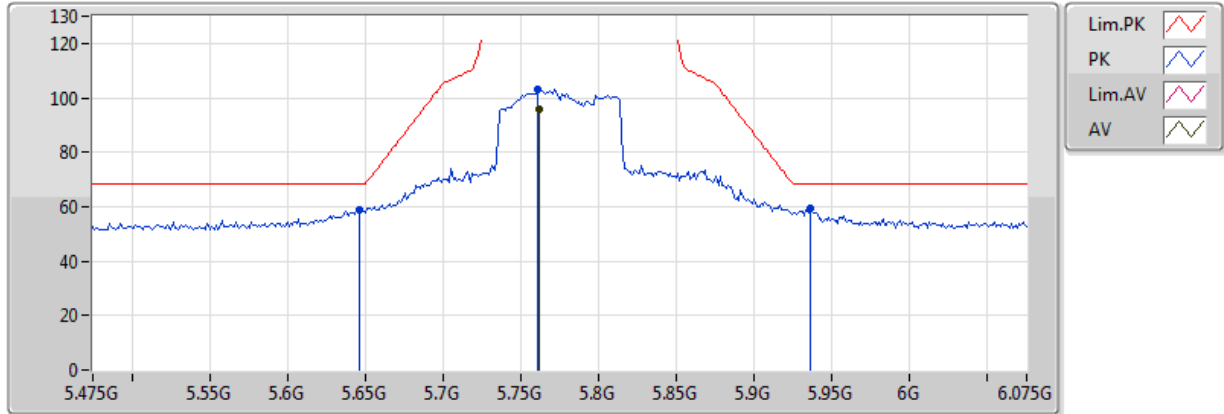


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.7786G      | 104.50            | Inf               | -Inf           | 2.91           | 3           | Vertical  | 341            | 1.03          | -        | 101.59        | 32.23      | 5.87       | 35.19      |
| PK   | 5.6466G      | 67.22             | 68.20             | -0.98          | 2.67           | 3           | Vertical  | 341            | 1.03          | -        | 64.55         | 32.08      | 5.77       | 35.18      |
| PK   | 5.7798G      | 111.92            | Inf               | -Inf           | 2.91           | 3           | Vertical  | 341            | 1.03          | -        | 109.01        | 32.24      | 5.87       | 35.19      |
| PK   | 5.9298G      | 62.44             | 68.20             | -5.76          | 3.20           | 3           | Vertical  | 341            | 1.03          | -        | 59.24         | 32.42      | 5.97       | 35.19      |

# VHT80-BF\_Nss1,(MCS0)\_4TX

## 5775MHz\_TX

17/03/2018

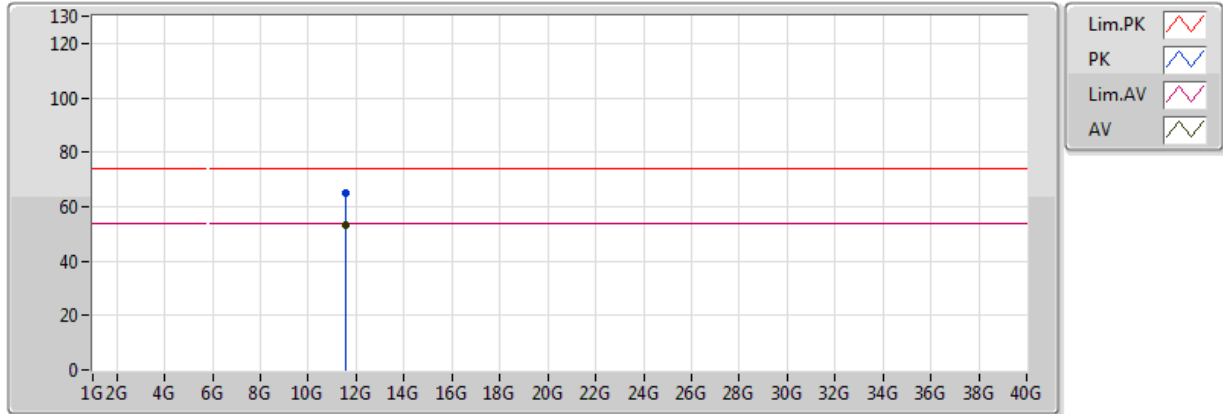


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 5.7618G      | 95.75             | Inf               | -Inf           | 2.88           | 3           | Horizontal | 72             | 1.01          | -        | 92.87         | 32.21      | 5.85       | 35.19      |
| PK   | 5.6466G      | 58.72             | 68.20             | -9.48          | 2.67           | 3           | Horizontal | 72             | 1.01          | -        | 56.05         | 32.08      | 5.77       | 35.18      |
| PK   | 5.7606G      | 103.35            | Inf               | -Inf           | 2.88           | 3           | Horizontal | 72             | 1.01          | -        | 100.47        | 32.21      | 5.85       | 35.19      |
| PK   | 5.9358G      | 59.65             | 68.20             | -8.55          | 3.21           | 3           | Horizontal | 72             | 1.01          | -        | 56.44         | 32.42      | 5.98       | 35.19      |

# VHT80-BF\_Nss1,(MCS0)\_4TX

## 5775MHz\_TX

17/03/2018

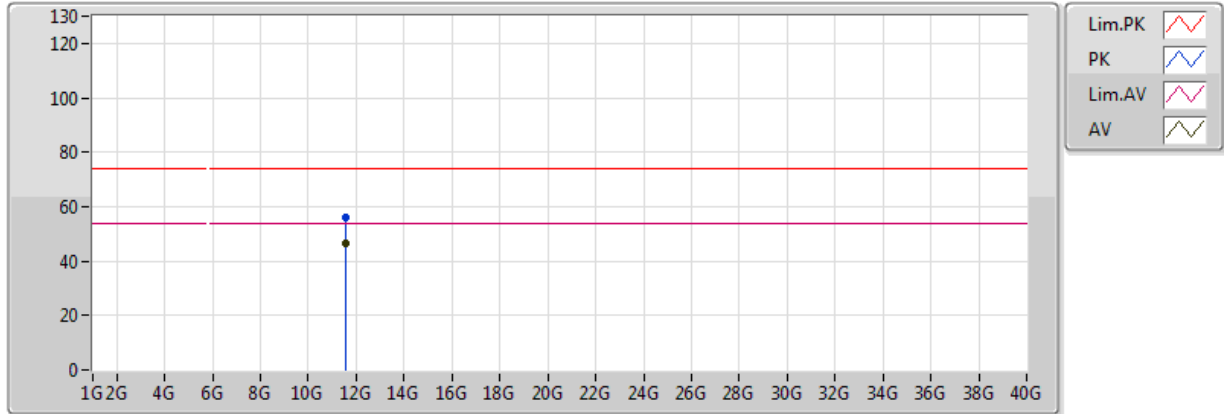


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 11.54964G    | 53.41             | 54.00             | -0.59          | 12.39          | 3           | Vertical  | 357            | 1.06          | -        | 41.02         | 39.48      | 8.40       | 35.49      |
| PK   | 11.54886G    | 65.24             | 74.00             | -8.76          | 12.39          | 3           | Vertical  | 357            | 1.06          | -        | 52.85         | 39.48      | 8.40       | 35.49      |

# VHT80-BF\_Nss1,(MCS0)\_4TX

## 5775MHz\_TX

17/03/2018



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 11.54988G    | 46.42             | 54.00             | -7.58          | 12.39          | 3           | Horizontal | 328            | 2.10          | -        | 34.03         | 39.48      | 8.40       | 35.49      |
| PK   | 11.55618G    | 55.94             | 74.00             | -18.06         | 12.38          | 3           | Horizontal | 328            | 2.10          | -        | 43.56         | 39.47      | 8.41       | 35.49      |