# FCC Test Report

| | | |
|---|---|---|
| **FCC ID** | : | **2AT6813002019** |
| **Equipment** | : | **CBRSYS1300-WTE-2S** |
| **Brand Name** | : | **CBRSYS1300-WTE-2S** |
| **Model Name** | : | **CBRSYS1300-WTE-2S** |
| **Applicant/ Manufacturer** | : | **Celliber Technologies Private Limited 2nd Floor VYSHAK CENTRE,1027, 24th Main 11th Cross, Sector 1 HSR Layout, Bangalore 560102 India** |
| **Standard** | : | **47 CFR FCC Part 15.407** |

**The product was received on Jul. 23, 2019, and testing was started from Jul. 23, 2019 and completed on Jul. 29, 2019. 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.**

Allen Lin

**Approved by: Allen Lin**

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

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

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**PHOTOGRAPHS OF EUT V01**

# History of this test report

| Report No. | Version | Description | Issued Date |
|---|---|---|---|
| FR971005AN | 01 | Initial issue of report | Sep. 20, 2019 |
| FR971005AN | 02 | Update Antenna Information<br>This report is the latest version replacing for the report issued on Sep. 20, 2019 | Sep. 27, 2019 |
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# Summary of Test Result

| Report Clause | Ref. Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|---|---|---|---|---|
| 1.1.2 | 15.203 | Antenna Requirement | PASS | - |
| 3.1 | 15.207 | AC Power-line Conducted Emissions | PASS | - |
| 3.2 | 15.407(a) | Emission Bandwidth | PASS | - |
| 3.3 | 15.407(a) | Maximum Conducted Output Power | PASS | - |
| 3.4 | 15.407(a) | Peak Power Spectral Density | PASS | - |
| 3.5 | 15.407(b) | Unwanted Emissions | PASS | - |

| **Declaration of Conformity:** |
|---|
| The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. |
| **Comments and explanations:** |
| None |

**Reviewed by: Jackson Tsai**

**Report Producer: Kate Lo**

# 1 General Description

## 1.1 Information

There are three WiFi Modules in the CQ30 Series Vehicle PC in the EUT. The antenna signals Tx transmit by only one connector and other connectors are restricted to Rx only mode with switches controlled by software.

### 1.1.1 RF General Information

| Frequency Range (MHz) | IEEE Std. 802.11 | Ch. Frequency (MHz) | Channel Number |
|---|---|---|---|
| 5150-5250 | a, n (HT20) | 5180-5240 | 36-48 [4] |
| 5725-5850 | | 5745-5805 | 149-161 [4] |
| 5150-5250 | n (HT40) | 5190-5230 | 38-46 [2] |
| 5725-5850 | | 5755-5795 | 151-159 [2] |

| Band | Mode | BWch (MHz) | Nant |
|---|---|---|---|
| 5.15-5.25GHz | 802.11a | 20 | 1TX |
| 5.725-5.85GHz | 802.11a | 20 | 1TX |
| 5.15-5.25GHz | 802.11n HT20 | 20 | 1TX |
| 5.725-5.85GHz | 802.11n HT20 | 20 | 1TX |
| 5.15-5.25GHz | 802.11n HT40 | 40 | 1TX |
| 5.725-5.85GHz | 802.11n HT40 | 40 | 1TX |

Note:
- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- BWch is the nominal channel bandwidth.

### 1.1.2 Antenna Information

| Ant. | Brand | Model Name | Antenna Type | Connector | Function |
|---|---|---|---|---|---|
| 1 | Mobile Mark | RM-WHF-DN-BLK | Omni | N Type | TX/RX |
| 2 | Mobile Mark | MGRM-WHF-3C-BLK-120 | Omni | Cable with SMA Male | TX/RX |
| 3 | Mobile Mark | LP-2400-6000 | Directional | SMA Female | RX |
| 4 | Mobile Mark | LP-2400-6000 | Directional | SMA Female | RX |
| 5 | Mobile Mark | LP-2400-6000 | Directional | SMA Female | RX |
| 6 | Mobile Mark | LP-2400-6000 | Directional | SMA Female | RX |

| Ant. | Port | Gain (dBi) | |
|---|---|---|---|
| | | 2.4G | 5G |
| 1 | 1 | **5** | **5** |
| 2 | - | 5 | 5 |
| 3 | - | 7.5 | 11 |
| 4 | - | 7.5 | 11 |
| 5 | - | 7.5 | 11 |
| 6 | - | 7.5 | 11 |

Note 1: The antenna 1 was used to test by transmit function .

**For 2.4GHz function:**

For IEEE 802.11 b/g/n mode

Ant. 1 or Ant. 2 could transmit/receive.

Ant. 3, Ant. 4, Ant. 5 and Ant. 6 could receive only.

**For 5GHz function:**

For IEEE 802.11 a/n mode

Ant. 1 or Ant. 2 could transmit/receive.

Ant. 3, Ant. 4, Ant. 5 and Ant. 6 could receive only.

### 1.1.3 EUT Information

| Operational Condition | | | | |
|---|---|---|---|---|
| **EUT Power Type** | From Switching Power Supply | | | |
| **EUT Function** | ☒ | Outdoor | ☐ | Indoor |
| | ☐ | Fixed P2P | ☒ | Client |
| **Beamforming Function** | ☐ | With beamforming | ☒ | Without beamforming |

| Type of EUT | | |
|---|---|---|
| ☒ | Stand-alone | |
| ☐ | Combined (EUT where the radio part is fully integrated within another device) | |
| | Combined Equipment - Brand Name / Model No.: | … |
| ☐ | Plug-in radio (EUT intended for a variety of host systems) | |
| | Host System - Brand Name / Model No.: | … |
| ☐ | Other: | |

### 1.1.4 Mode Test Duty Cycle

| Mode | DC | DCF(dB) | T(s) | VBW(Hz) ≥ 1/T |
|---|---|---|---|---|
| 802.11a | 0.985 | 0.07 | n/a (DC>=0.98) | n/a (DC>=0.98) |
| 802.11n HT20 | 0.978 | 0.1 | 1.527m | 1k |
| 802.11n HT40 | 0.966 | 0.15 | 754.688u | 3k |

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

## 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

## 1.3 Testing Location Information

| Testing Location | | | | | | |
|---|---|---|---|---|---|---|
| ☒ | 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. | | | | | | |
| ☐ | 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 | 24.9~25.4°C / 49~54% | 24/Jul/2019~ 29/Jul/2019 |
| Radiated | 03CH02-HY | Streak | 21.1~23.2°C / 51.2~53.9% | 23/Jul/2019~ 25/Jul/2019 |
| AC Conduction | CO04-HY | Jeff | 22.6~24.7°C / 62.3~65.9% | 26/Jul/2019 |

## 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) | 3.54 dB | Confidence levels of 95% |
| Radiated Emission (9kHz ~ 30MHz) | 1.6 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

| Test Software Version | MobaXterm_Personal_11.1 |
|---|---|

**Master:**

| Mode | Power Setting |
|---|---|
| 802.11a_Nss1,(6Mbps)_1TX | - |
| 5180MHz | 13 |
| 5200MHz | 13 |
| 5240MHz | 15 |
| 5745MHz | 37 |
| 5785MHz | 34 |
| 5805MHz | 36 |
| 802.11n HT20_Nss1,(MCS0)_1TX | - |
| 5180MHz | 16 |
| 5200MHz | 14 |
| 5240MHz | 16 |
| 5745MHz | 37 |
| 5785MHz | 34 |
| 5805MHz | 36 |
| 802.11n HT40_Nss1,(MCS0)_1TX | - |
| 5190MHz | 14 |
| 5230MHz | 14 |
| 5755MHz | 36 |
| 5795MHz | 35 |

**Slave:**

| Mode | Power Setting |
|---|---|
| 802.11a_Nss1,(6Mbps)_1TX | - |
| 5180MHz | 29 |
| 5200MHz | 28 |
| 5240MHz | 31 |
| 5745MHz | 37 |
| 5785MHz | 34 |
| 5805MHz | 36 |
| 802.11n HT20_Nss1,(MCS0)_1TX | - |
| 5180MHz | 30 |
| 5200MHz | 29 |
| 5240MHz | 32 |
| 5745MHz | 37 |
| 5785MHz | 34 |
| 5805MHz | 36 |
| 802.11n HT40_Nss1,(MCS0)_1TX | - |
| 5190MHz | 29 |
| 5230MHz | 30 |
| 5755MHz | 36 |
| 5795MHz | 35 |

## 2.3 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | AC power-line conducted emissions |
| **Condition** | AC power-line conducted measurement for line and neutral |
| **Operating Mode** | CTX |
| 1 | For Switching Power Supply |

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

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | Unwanted Emissions |
| **Test Condition** | Radiated measurement<br>If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type. |
| **Operating Mode < 1GHz** | CTX |
| 1 | For Switching Power Supply |
| **Operating Mode > 1GHz** | CTX |
| **Orthogonal Planes of EUT** | **Z Plane** |
| | |
| **Worst Planes of EUT** | V |

## 2.4 Accessories and Support Equipment

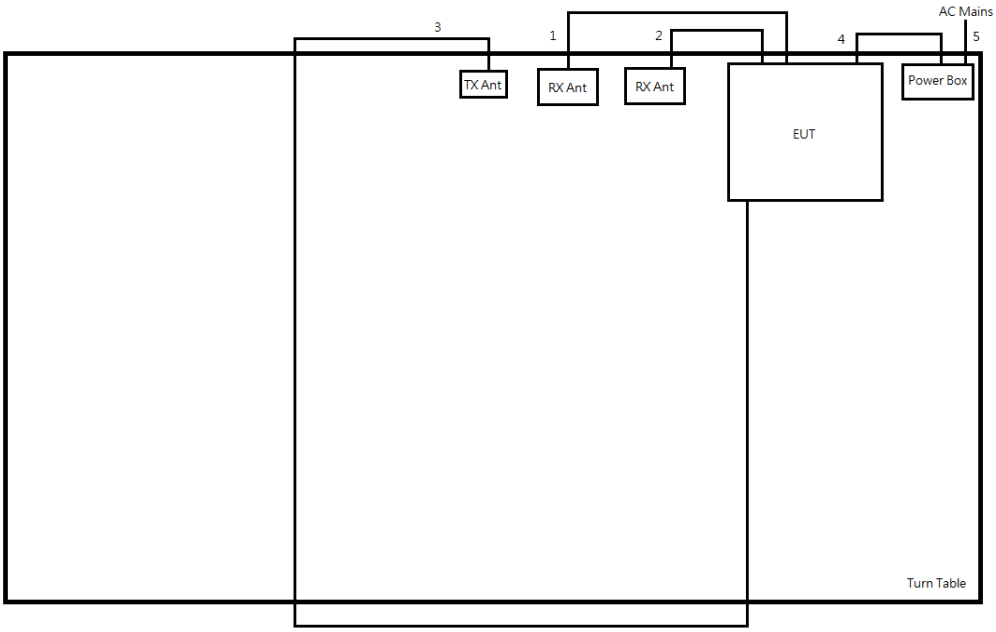
| Accessories | | | | |
|---|---|---|---|---|
| AC power Cord | Brand Name | AC Power cord | Model Name | 11-00022 |
| | Manufacturer | Tensility | | |
| | Power Rating | I/P: 110 -250 Vac, 2.5 A | | |
| | Power Cord | 1 meter, non-shielded cable, w/o ferrite core | | |
| Universal Adaptor | Brand Name | Universal Adapter | Model Name | APK01AP-52 |
| | Manufacturer | Targus | | |
| Additional power cable with Fischer connector for DC | Brand Name | Open ended cable with 2 pin Ficher | Model Name | 600090256 |
| | Manufacturer | Celliber | | |
| | Power Cord | 2 meter, non-shielded cable, w/o ferrite core | | |
| M12 Ethernet cable | Brand Name | M12 08 pos Male to RJ45 cable | Model Name | 1407415 |
| | Manufacturer | Phoenix Contact | | |
| | Power Cord | 2 meter, shielded cable, w/o ferrite core | | |
| M12 Ethernet cable | Brand Name | Circular M12 08 pos Male to M12 08 pos Male | Model Name | 1408748 |
| | Manufacturer | Phoenix Contact | | |
| | Power Cord | 0.5 meter, shielded cable, w/o ferrite core | | |
| VGA Cable | Brand Name | VGA Cable | Model Name | P502-006 |
| | Manufacturer | P502-006 | | |
| | Power Cord | 1.83 meter, shielded cable, w/o ferrite core | | |
| RX Antenna Assembly | Brand Name | RX Antenna Assembly | Model Name | 800090085-01 |
| | Manufacturer | Celliber | PN | LP-2400-6000 |
| TX Antenna | Brand Name | TX Antenna | Model Name | MGRM-WHF-3C-BLK-120 |
| | Manufacturer | Mobile Mark Antennas Solutions | | |
| | Power Cord | 3 meter, shielded cable, w/o ferrite core | | |
| TX Antenna | Brand Name | TX Antenna | Model Name | RM-WHF-DN-BLK |
| | Manufacturer | Mobile Mark Antennas Solutions | | |
| GPS antenna | Brand Name | GPS Antenna | Model Name | 33-4721-00-3000 |
| | Manufacturer | Tallysman Wireless Inc. | | |
| | Power Cord | 3 meter, shielded cable, w/o ferrite core | | |
| N Type to SMA adapter | Brand Name | Adapter | Model Name | 53S132-K00L5 |
| | Manufacturer | Rosenberger | | |
| RX Cable | Brand Name | Rx Cable | Model Name | ULC-10FT-SMSM+ |
| | Manufacturer | Mini-Circuits | | |
| | Power Cord | 3 meter, shielded cable, w/o ferrite core | | |
| TX Cable | Brand Name | TX Cable | Model Name | SPU400FR/11SMA/11SMA/004600 |
| | Manufacturer | HUBER+SUHNER | | |
| | Power Cord | 4.6 meter, shielded cable, w/o ferrite core | | |

Reminder: Regarding to more detail and other information, please refer to user manual.

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

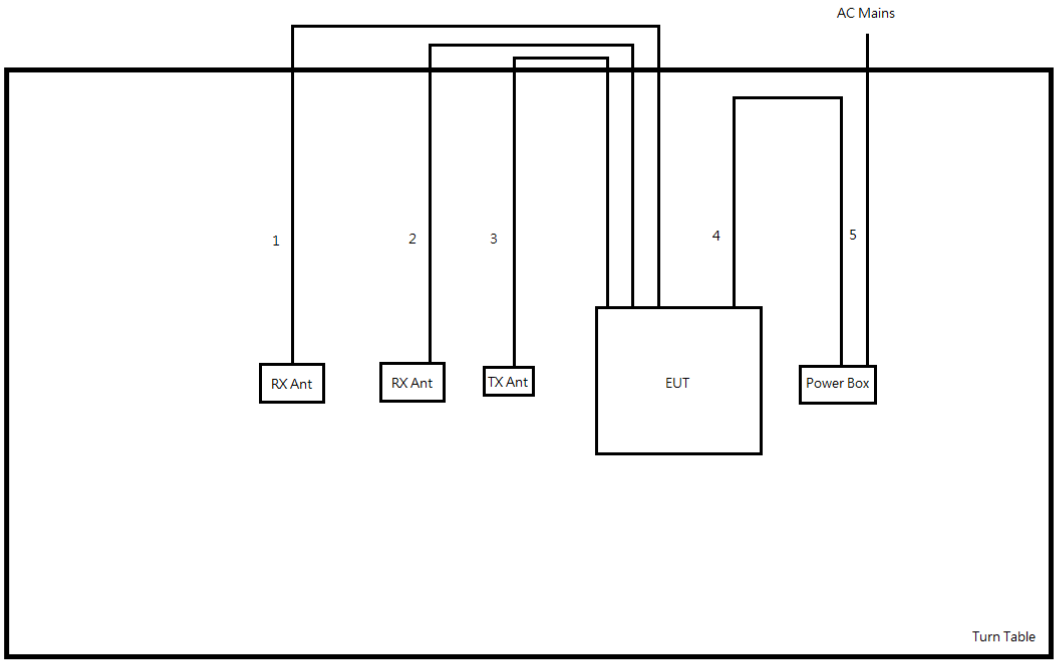
## 2.5 Test Setup Diagram

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




| Item | Connection | Shielded | Length(m) | Remark |
|---|---|---|---|---|
| 1 | RX Cable | Yes | 3 | - |
| 2 | RX Cable | Yes | 3 | - |
| 3 | TX Cable | Yes | 4.6 | - |
| 4 | AC Power Cord | No | 1.0 | - |
| 5 | Power Cable | No | 1.8 | - |

## Test Setup Diagram - Radiated Test




| Item | Connection | Shielded | Length(m) | Remark |
|---|---|---|---|---|
| 1 | RX Cable | Yes | 3 | - |
| 2 | RX Cable | Yes | 3 | - |
| 3 | TX Cable | Yes | 4.6 | - |
| 4 | AC Power Cord | No | 1.0 | - |
| 5 | Power Cable | No | 1.8 | - |

# 3 Transmitter Test Result

## 3.1 AC Power-line Conducted Emissions

### 3.1.1 AC Power-line Conducted Emissions Limit

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

### 3.1.2 Measuring Instruments

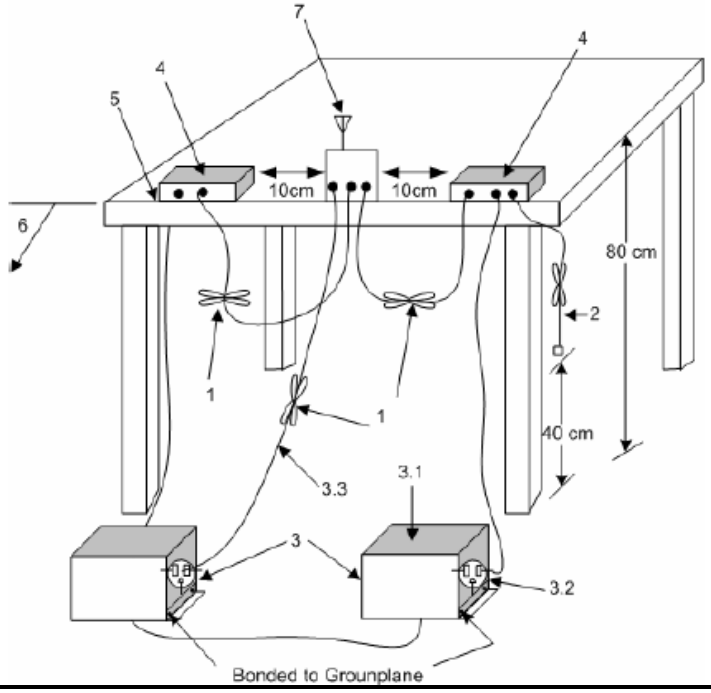
Refer a test equipment and calibration data table in this test report.

### 3.1.3 Test Procedures

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

### 3.1.4 Test Setup

**AC Power-line Conducted Emissions**




### 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 |
|---|
| **UNII Devices** |
| ☒ For the 5.15-5.25 GHz band, N/A |
| ☐ For the 5.25-5.35 GHz band, N/A |
| ☐ For the 5.47-5.725 GHz band, N/A |
| ☒ For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz. |

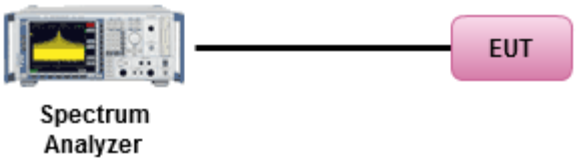
### 3.2.2 Measuring Instruments

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

### 3.2.3 Test Procedures

| Test Method | |
|---|---|
| ▪ For the emission bandwidth shall be measured using one of the options below: | |
| | ☒ Refer as KDB 789033, clause C for EBW and clause D for OBW measurement. |
| | ☐ Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing. |
| | ☐ Refer as IC RSS-Gen, clause 6.7 for bandwidth testing. |

### 3.2.4 Test Setup

| Emission Bandwidth |
|---|
|   |

### 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

## 3.3 Maximum Conducted Output Power

### 3.3.1 Maximum Conducted Output Power Limit

| Maximum Conducted Output Power Limit | |
|---|---|
| **UNII Devices** | |
| ☒ | For the 5.15-5.25 GHz band: |
| | ▪ Outdoor AP: the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 6). e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] |
| | ▪ Indoor AP: the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 6) |
| | ▪ Point-to-point AP: the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W If $G_{TX}$ > 23 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 23). |
| | ▪ Mobile or Portable Client: the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 250 mW. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 24 – ($G_{TX}$ – 6). |
| ☐ | For the 5.25-5.35 GHz band, the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 24 – ($G_{TX}$ – 6). |
| ☐ | For the 5.47-5.725 GHz band, the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 24 – ($G_{TX}$ – 6). |
| ☒ | For the 5.725-5.85 GHz band: |
| | ▪ Point-to-multipoint systems (P2M): the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 6). |
| | ▪ Point-to-point systems (P2P): the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W. |
| **$P_{Out}$** = maximum conducted output power in dBm,<br>**$G_{TX}$** = the maximum transmitting antenna directional gain in dBi. | |

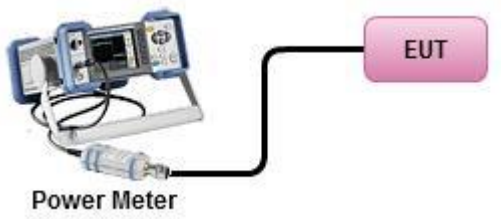
### 3.3.2 Measuring Instruments

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

### 3.3.3 Test Procedures

| Test Method | |
|---|---|
| ▪ Maximum Conducted Output Power | |
| | Duty cycle ≥ 98% |
| | ☐ Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging). |
| | Duty cycle < 98% |
| | ☐ 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 |
| | ☒ Refer as KDB 789033, clause E Method PM (using an RF average power meter). |
| ▪ For conducted measurement. | |
| | ▪ 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. |
| | ▪ If multiple transmit chains, EIRP calculation could be following as methods:<br>$P_{total} = P_1 + P_2 + \ldots + P_n$<br>(calculated in linear unit [mW] and transfer to log unit [dBm])<br>$EIRP_{total} = P_{total} + DG$ |

### 3.3.4 Test Setup

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

### 3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

# 3.4 Peak Power Spectral Density

## 3.4.1 Peak Power Spectral Density Limit

| Peak Power Spectral Density Limit | |
|---|---|
| **UNII Devices** | |
| ☒ For the 5.15-5.25 GHz band: | |
| | ▪ Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 17 – ($G_{TX}$ – 6). |
| | ▪ Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 17 – ($G_{TX}$ – 6). |
| | ▪ Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX}$ > 23 dBi, then $P_{Out}$ = 17 – ($G_{TX}$ – 23). |
| | ▪ Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX}$ > 6 dBi, then PPSD= 11 – ($G_{TX}$ – 6).. |
| ☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX}$ > 6 dBi, then PPSD= 11 – ($G_{TX}$ – 6). | |
| ☐ For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX}$ > 6 dBi, then PPSD= 11 – ($G_{TX}$ – 6). | |
| ☒ For the 5.725-5.85 GHz band: | |
| | ▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX}$ > 6 dBi, then PPSD= 30 – ($G_{TX}$ – 6). |
| | ▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. |
| **PPSD** = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz<br>**$G_{TX}$** = the maximum transmitting antenna directional gain in dBi. | |

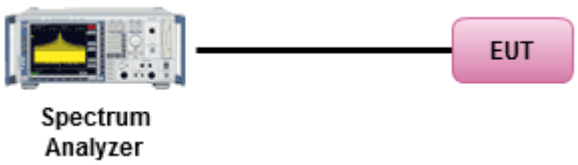
## 3.4.2 Measuring Instruments

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

### 3.4.3 Test Procedures

| Test Method | | |
|---|---|---|
| ▪ Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options: | | |
| | ☐ Refer as 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% | |
| | ☐ Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging). | |
| | Duty cycle < 98% | |
| | ☒ Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed) | |
| ▪ For conducted measurement. | | |
| | ▪ If the EUT supports multiple transmit chains using options given below: | |
| | | ▪ 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. |
| | ▪ | If multiple transmit chains, EIRP PPSD calculation could be following as methods:<br>$PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n$<br>(calculated in linear unit [mW] and transfer to log unit [dBm])<br>$EIRP_{total} = PPSD_{total} + DG$ |

### 3.4.4 Test Setup

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

### 3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

## 3.5 Unwanted Emissions

### 3.5.1 Transmitter 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.

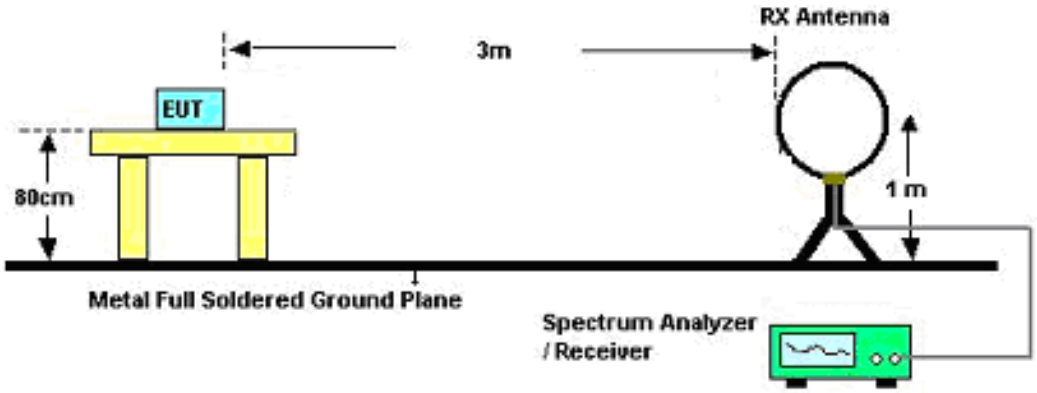
### 3.5.3 Test Procedures

| Test Method | | |
|---|---|---|
| ▪ Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). | | |
| ▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. | | |
| ▪ For the transmitter unwanted emissions shall be measured using following options below: | | |
| | ▪ Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands. | |
| | ▪ Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands. | |
| | | ☒ Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW. |
| | | ☒ Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit. |
| ▪ For radiated measurement. | | |
| | ▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m. | |
| | ▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m. | |
| | ▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. | |
| ▪ The any unwanted emissions level shall not exceed the fundamental emission level. | | |
| ▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported. | | |

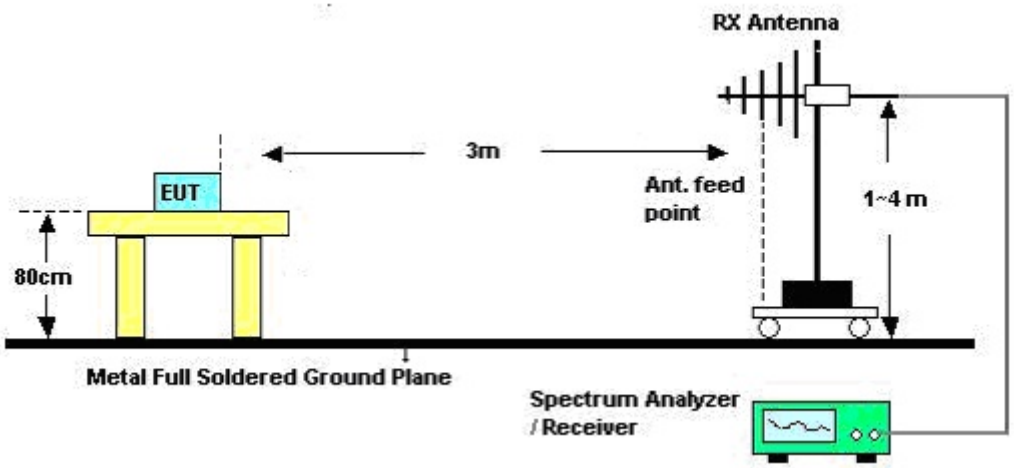
### 3.5.4 Test Setup

**Transmitter Radiated Unwanted Emissions**

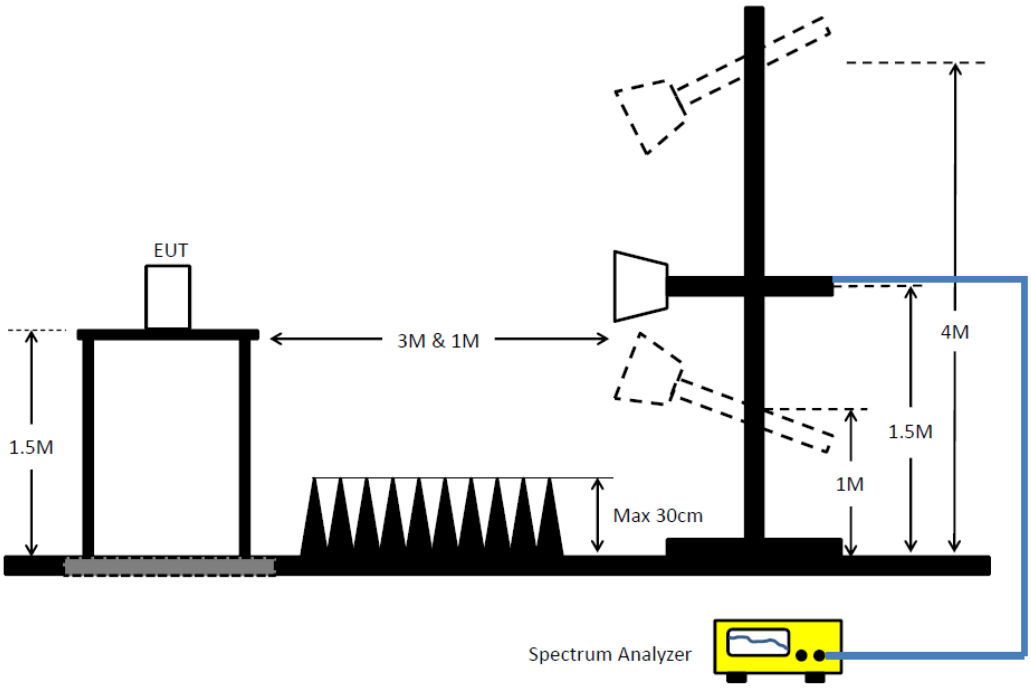
**9kHz~30MHz**




**30MHz~1GHz**



**Above 1GHz**




### 3.5.5 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

# 4 Test Equipment and Calibration Data

**Instrument for AC Conduction**

| | | | | | | |
|---|---|---|---|---|---|---|
| EMC Receiver | R&S | ESR3 | 102052 | 9kHz~3.6GHz | 09/Apr/2019 | 08/Apr/2020 |
| LISN | R&S | ENV216 | 101295 | 9kHz~30MHz | 08/Nov/2018 | 07/Nov/2019 |
| RF Cable-CON | MTJ | RG142 | CB002-CO | 9kHz~200MHz | 17/Sep/2018 | 16/Sep/2019 |
| AC POWER | APC | AFC-11005G | F310050055 | 47Hz~63Hz 5~300V | NCR | NCR |
| Impuls Begrenzer Pulse Limiter | SCHWARZBECK | VTSD 9561-F | 9561-F041 | 9kHz~30 MHz | 12/Oct/2018 | 11/Oct/2019 |

**NCR : Non-Calibration Require**

**Instrument for Conducted Test**

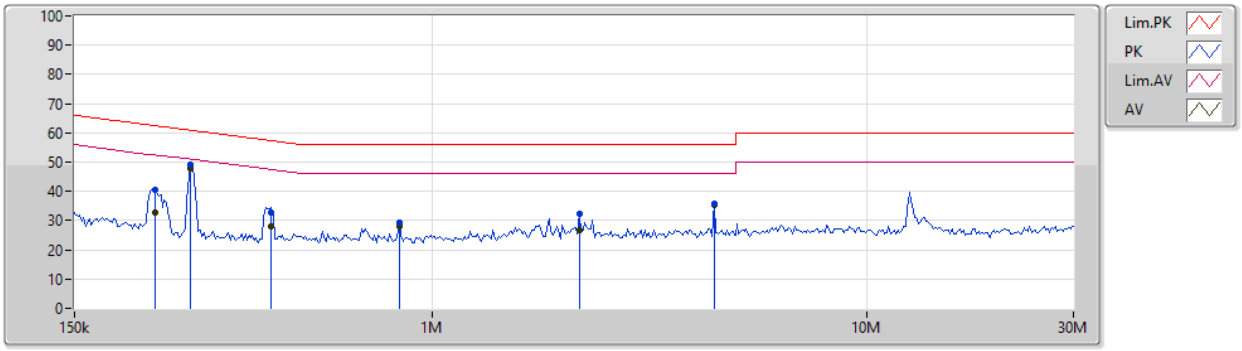
| Instrument | Manufacturer | Model No. | Serial No. | Spec. | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|---|
| Spectrum Analyzer | R&S | FSV 40 | 101013 | 10Hz~40GHz | 13/Mar/2019 | 12/Mar/2020 |
| Power Sensor | Anritsu | MA2411B | 1339407 | 300MHz~40GHz | 17/Nov/2018 | 16/Nov/2019 |
| Power Meter | Anritsu | ML2495A | 1517010 | 300MHz~40GHz | 17/Nov/2018 | 16/Nov/2019 |
| Cable 0.2m | HUBER | MY10710/4 | RF Cable - 01 | 30MHz~18G | 21/Mar/2019 | 20/Mar/2020 |
| Cable 0.2m | HUBER | MY10711/4 | RF Cable - 02 | 30MHz~18G | 21/Mar/2019 | 20/Mar/2020 |
| Cable 0.5m | HUBER | MY39470/4 | RF Cable - 29 | 30MHz~18G | 21/Mar/2019 | 20/Mar/2020 |
| SMB100A Signal Generator | R&S | SMB100A03 | 181147 | 100kHz~40GHz | 12/Nov/2018 | 10/Nov/2020 |

## Instrument for Radiated Test

| Instrument | Manufacturer | Model No. | Serial No. | Spec. | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|---|
| 3m Semi Anechoic Chamber | SIDT FRANKONIA | SAC-3M | 03CH02-HY | 30MHz~1GHz 3m | 19/Oct/2018 | 18/Oct/2019 |
| 3m Semi Anechoic Chamber | SIDT FRANKONIA | SAC-3M | 03CH02-HY | 1GHz~18GHz 3m | 17/Oct/2018 | 16/Oct/2019 |
| Amplifier | Agilent | 8447D | 2944A11149 | 30~1000MHz | 02/Jul/2019 | 01/Jul/2020 |
| Microwave Preamplifier | Agilent | 8449B | 3008A02373 | 1GHz~26.5GHz | 23/Oct/2018 | 22/Oct/2019 |
| Signal Analyzer | R&S | FSP40 | 100593 | 9kHz~40GHz | 27/Dec/2018 | 26/Dec/2019 |
| RF Cable-R03m | Jye Bao | RG142 | CB017 | 9kHz~1GHz | 18/Jan/2019 | 17/Jan/2020 |
| RF Cable-high | SUHNER | SUCOFLEX104 | MY34918/4 | 1GHz~40GHz | 18/Jan/2019 | 17/Jan/2020 |
| Bilog Antenna & 5dB Attenuator | SCHAFFNER / MTJ | CBL 6112B / MTJ6102-05 | 2723 / 2 | 30MHz~1GHz | 08/Sep/2018 | 07/Sep/2019 |
| Preamplifier | MITEQ | TTA1840-35-HG | 1864481 | 18GHz~40GHz | 24/Aug/2018 | 23/Aug/2019 |
| EMI Test Receiver | R&S | ESR | 102052 | 9kHz~3.6GHz | 09/Apr/2019 | 08/Apr/2020 |
| Loop Antenna | TESEQ | HLA 6120 | 31244 | 9k~30MHz | 15/Mar/2019 | 14/Mar/2020 |
| Broadband Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA 9170221 | 15GHz~40GHz | 22/Mar/2019 | 21/Mar/2020 |
| Double Ridged Guide Horn Antenna | SCHWARZBECK | BBHA 9120 D | BBHA 9120 D 01543 | 1GHz~18GHz | 03/Jun/2019 | 02/Jun/2020 |

| AC Power-line Conducted Emissions Result | | | |
|---|---|---|---|
| **Operating Mode** | 1 | **Power Phase** | Neutral |
| **Operating Function** | Switching Power Supply mode | | |

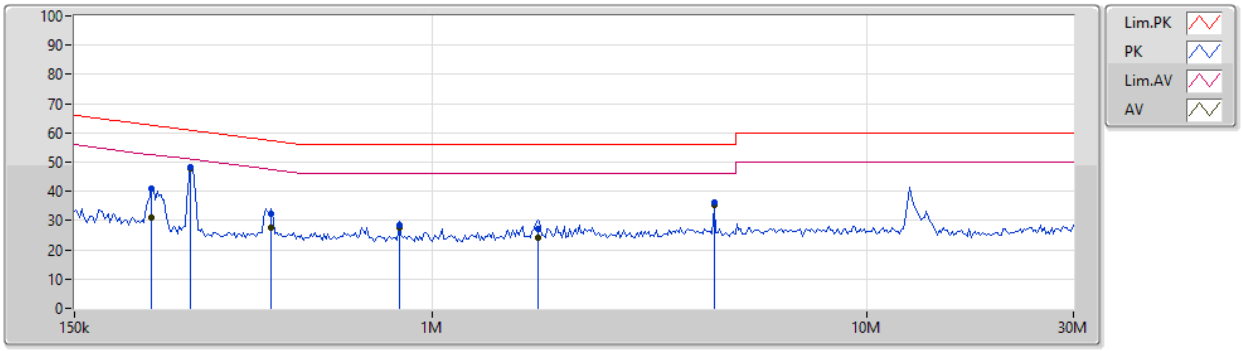
26/07/2019




| Type | Freq | Level | Limit | Margin | Factor | Condition | Comment | Raw | LISN | CL | AT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV) | (dBuV) | (dB) | (dB) | | | (dBuV) | (dB) | (dB) | (dB) |
| QP | 230.097k | 40.53 | 62.44 | -21.91 | 19.47 | Neutral | - | 21.06 | 9.59 | 0.01 | 9.87 |
| AV | 230.097k | 32.69 | 52.44 | -19.75 | 19.47 | Neutral | - | 13.22 | 9.59 | 0.01 | 9.87 |
| QP | 277.982k | 49.10 | 60.88 | -11.78 | 19.47 | Neutral | - | 29.63 | 9.59 | 0.01 | 9.87 |
| AV | 277.982k | 47.86 | 50.88 | -3.02 | 19.47 | Neutral | "Worst" | 28.39 | 9.59 | 0.01 | 9.87 |
| QP | 426.418k | 32.79 | 57.32 | -24.53 | 19.48 | Neutral | - | 13.31 | 9.59 | 0.01 | 9.88 |
| AV | 426.418k | 27.83 | 47.32 | -19.49 | 19.48 | Neutral | - | 8.35 | 9.59 | 0.01 | 9.88 |
| QP | 838.859k | 29.11 | 56.00 | -26.89 | 19.49 | Neutral | - | 9.62 | 9.59 | 0.02 | 9.88 |
| AV | 838.859k | 27.89 | 46.00 | -18.11 | 19.49 | Neutral | - | 8.40 | 9.59 | 0.02 | 9.88 |
| QP | 2.18M | 32.52 | 56.00 | -23.48 | 19.53 | Neutral | - | 12.99 | 9.61 | 0.03 | 9.89 |
| AV | 2.18M | 26.80 | 46.00 | -19.20 | 19.53 | Neutral | - | 7.27 | 9.61 | 0.03 | 9.89 |
| QP | 4.464M | 35.96 | 56.00 | -20.04 | 19.56 | Neutral | - | 16.40 | 9.62 | 0.05 | 9.89 |
| AV | 4.464M | 35.26 | 46.00 | -10.74 | 19.56 | Neutral | - | 15.70 | 9.62 | 0.05 | 9.89 |

| AC Power-line Conducted Emissions Result | | | |
|---|---|---|---|
| **Operating Mode** | 1 | **Power Phase** | Line |
| **Operating Function** | Switching Power Supply mode | | |

26/07/2019




| Type | Freq | Level | Limit | Margin | Factor | Condition | Comment | Raw | LISN | CL | AT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV) | (dBuV) | (dB) | (dB) | | | (dBuV) | (dB) | (dB) | (dB) |
| QP | 225.563k | 41.08 | 62.62 | -21.54 | 19.48 | Line | - | 21.60 | 9.60 | 0.01 | 9.87 |
| AV | 225.563k | 30.91 | 52.62 | -21.71 | 19.48 | Line | - | 11.43 | 9.60 | 0.01 | 9.87 |
| QP | 277.982k | 48.40 | 60.88 | -12.48 | 19.48 | Line | - | 28.92 | 9.60 | 0.01 | 9.87 |
| AV | 277.982k | 47.76 | 50.88 | -3.12 | 19.48 | Line | "Worst" | 28.28 | 9.60 | 0.01 | 9.87 |
| QP | 426.418k | 32.43 | 57.32 | -24.89 | 19.48 | Line | - | 12.95 | 9.59 | 0.01 | 9.88 |
| AV | 426.418k | 27.46 | 47.32 | -19.86 | 19.48 | Line | - | 7.98 | 9.59 | 0.01 | 9.88 |
| QP | 838.859k | 28.59 | 56.00 | -27.41 | 19.50 | Line | - | 9.09 | 9.60 | 0.02 | 9.88 |
| AV | 838.859k | 27.42 | 46.00 | -18.58 | 19.50 | Line | - | 7.92 | 9.60 | 0.02 | 9.88 |
| QP | 1.752M | 27.13 | 56.00 | -28.87 | 19.54 | Line | - | 7.59 | 9.62 | 0.03 | 9.89 |
| AV | 1.752M | 24.24 | 46.00 | -21.76 | 19.54 | Line | - | 4.70 | 9.62 | 0.03 | 9.89 |
| QP | 4.464M | 36.02 | 56.00 | -19.98 | 19.58 | Line | - | 16.44 | 9.64 | 0.05 | 9.89 |
| AV | 4.464M | 35.21 | 46.00 | -10.79 | 19.58 | Line | - | 15.63 | 9.64 | 0.05 | 9.89 |

## Summary

| Mode | Max-N dB (Hz) | Max-OBW (Hz) | ITU-Code | Min-N dB (Hz) | Min-OBW (Hz) |
|---|---|---|---|---|---|
| 5.15-5.25GHz | - | - | - | - | - |
| 802.11a_Nss1,(6Mbps)_1TX | 22.8M | 16.492M | 16M5D1D | 22.26M | 16.462M |
| 802.11n HT20_Nss1,(MCS0)_1TX | 23.55M | 17.691M | 17M7D1D | 22.89M | 17.601M |
| 802.11n HT40_Nss1,(MCS0)_1TX | 46.8M | 36.222M | 36M2D1D | 45.66M | 36.162M |
| 5.725-5.85GHz | - | - | - | - | - |
| 802.11a_Nss1,(6Mbps)_1TX | 15.9M | 20.66M | 20M7D1D | 15.24M | 18.861M |
| 802.11n HT20_Nss1,(MCS0)_1TX | 16.74M | 21.649M | 21M6D1D | 16.29M | 19.46M |
| 802.11n HT40_Nss1,(MCS0)_1TX | 35.7M | 39.46M | 39M5D1D | 35.34M | 38.801M |

**Max-N dB** = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
**Max-OBW** = Maximum99% occupied bandwidth;
**Min-N dB** = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
**Min-OBW** = Minimum 99% occupied bandwidth;

## Result

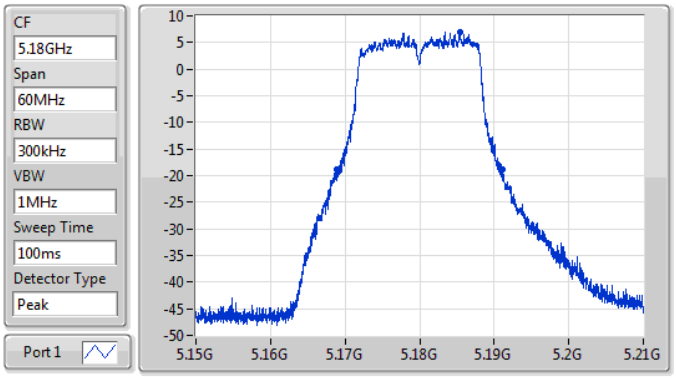
| Mode | Result | Limit (Hz) | Port 1-N dB (Hz) | Port 1-OBW (Hz) |
|---|---|---|---|---|
| 802.11a_Nss1,(6Mbps)_1TX | - | - | - | - |
| 5180MHz | Pass | Inf | 22.26M | 16.492M |
| 5200MHz | Pass | Inf | 22.8M | 16.462M |
| 5240MHz | Pass | Inf | 22.5M | 16.492M |
| 5745MHz | Pass | 500k | 15.24M | 19.76M |
| 5785MHz | Pass | 500k | 15.9M | 18.861M |
| 5805MHz | Pass | 500k | 15.66M | 20.66M |
| 802.11n HT20_Nss1,(MCS0)_1TX | - | - | - | - |
| 5180MHz | Pass | Inf | 22.89M | 17.601M |
| 5200MHz | Pass | Inf | 23.25M | 17.691M |
| 5240MHz | Pass | Inf | 23.55M | 17.631M |
| 5745MHz | Pass | 500k | 16.74M | 20.42M |
| 5785MHz | Pass | 500k | 16.53M | 19.46M |
| 5805MHz | Pass | 500k | 16.29M | 21.649M |
| 802.11n HT40_Nss1,(MCS0)_1TX | - | - | - | - |
| 5190MHz | Pass | Inf | 45.66M | 36.162M |
| 5230MHz | Pass | Inf | 46.8M | 36.222M |
| 5755MHz | Pass | 500k | 35.34M | 38.801M |
| 5795MHz | Pass | 500k | 35.7M | 39.46M |

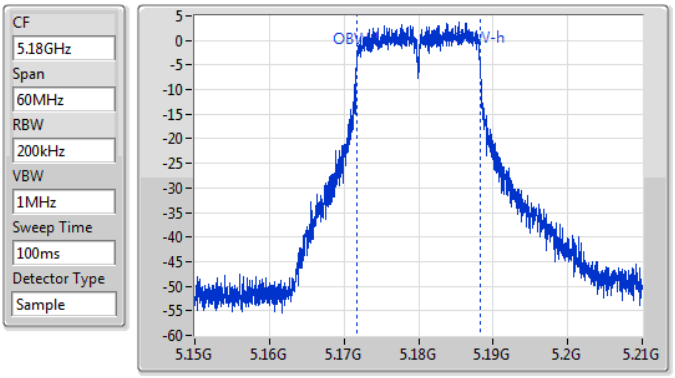
**Port X-N dB** = Port **X** 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
**Port X-OBW** = Port **X** 99% occupied bandwidth;

## 802.11a_Nss1,(6Mbps)_1TX EBW

## 5180MHz

29/07/2019



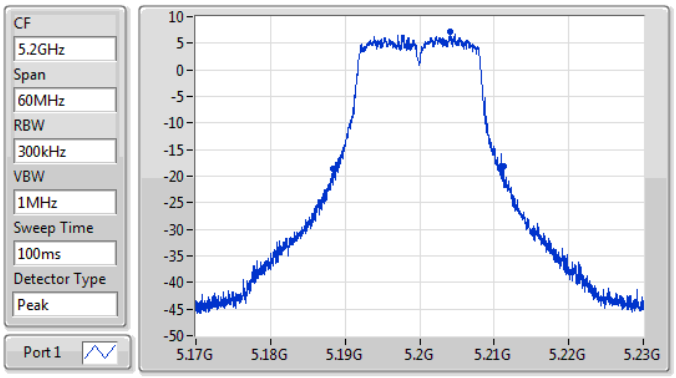



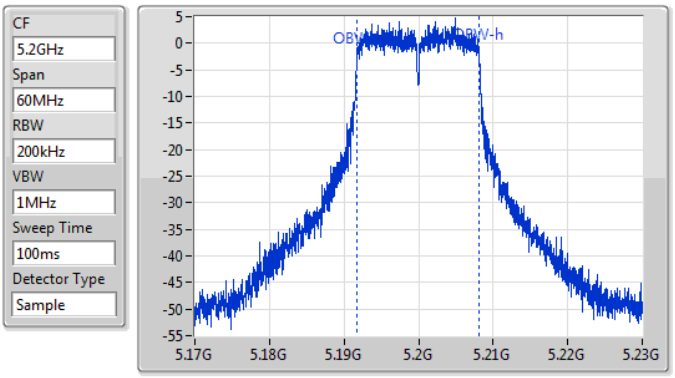

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 22.26M | 5.16893G | 5.19119G | 16.492M | 5.171724G | 5.188216G | Inf | 1 |

## 802.11a_Nss1,(6Mbps)_1TX EBW

## 5200MHz

29/07/2019



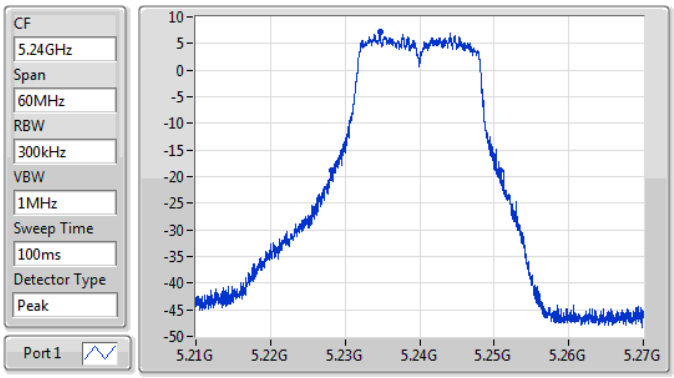



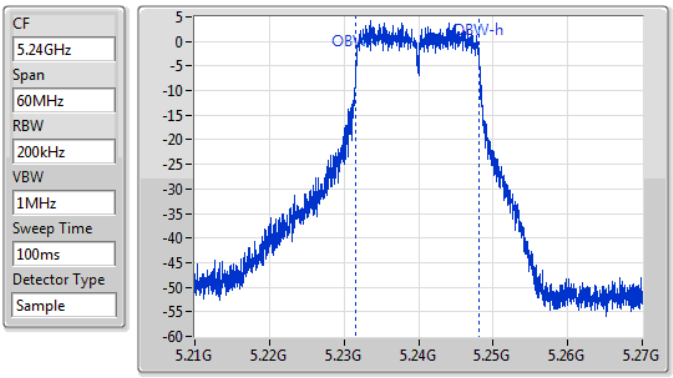

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 22.8M | 5.18842G | 5.21122G | 16.462M | 5.191694G | 5.208156G | Inf | 1 |

## 802.11a_Nss1,(6Mbps)_1TX EBW

## 5240MHz

29/07/2019



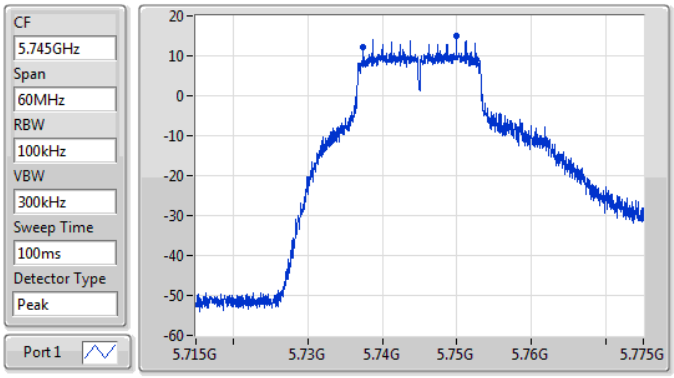



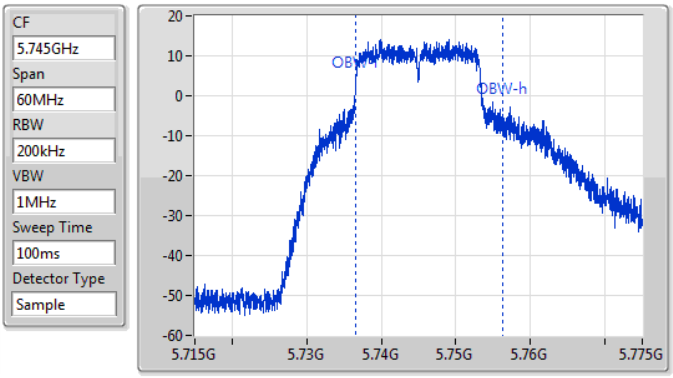

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 22.5M | 5.22821G | 5.25071G | 16.492M | 5.231634G | 5.248126G | Inf | 1 |

## 802.11a_Nss1,(6Mbps)_1TX EBW

## 5745MHz

26/07/2019



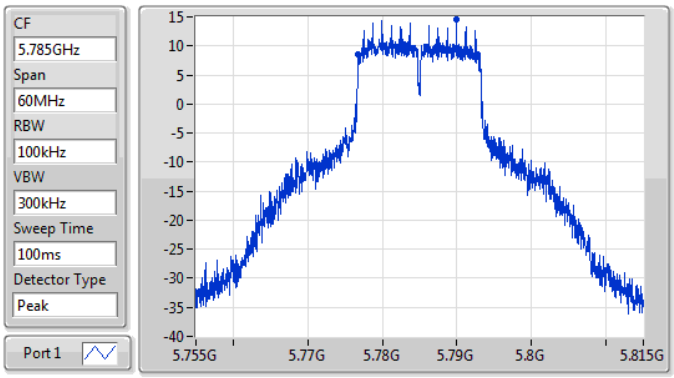



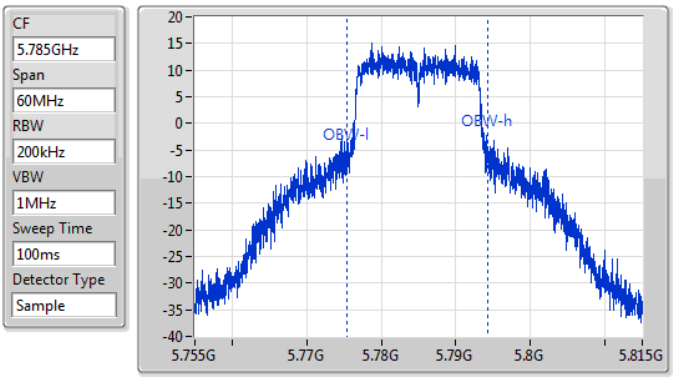

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 15.24M | 5.73744G | 5.75268G | 19.76M | 5.736514G | 5.756274G | 500k | 1 |

## 802.11a_Nss1,(6Mbps)_1TX EBW

### 5785MHz

26/07/2019



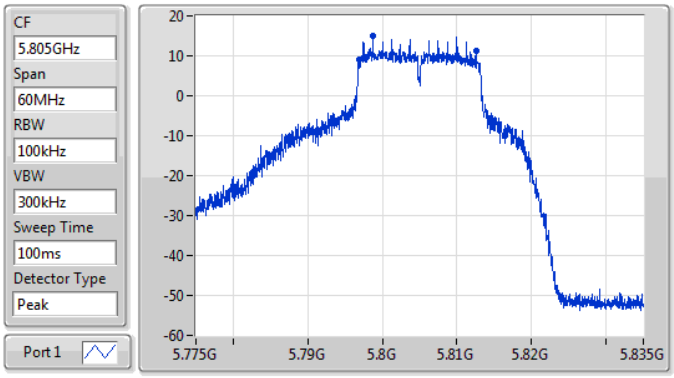



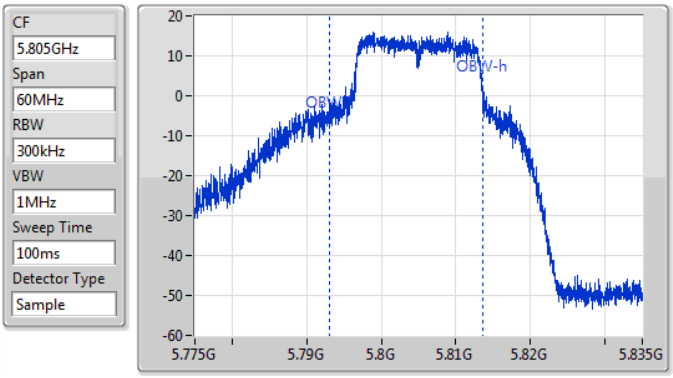

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 15.9M | 5.77681G | 5.79271G | 18.861M | 5.775375G | 5.794235G | 500k | 1 |

## 802.11a_Nss1,(6Mbps)_1TX EBW

### 5805MHz

26/07/2019



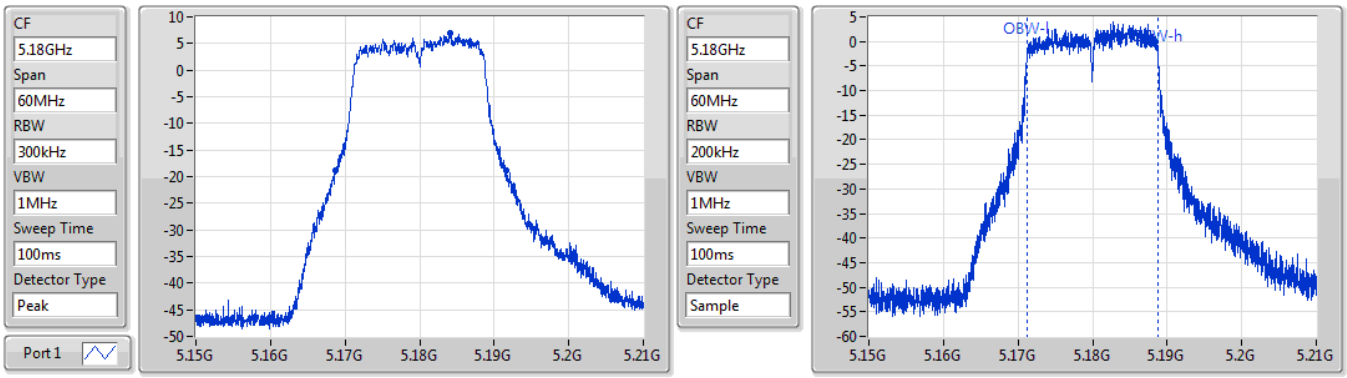




| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 15.66M | 5.79687G | 5.81253G | 20.66M | 5.792976G | 5.813636G | 500k | 1 |

## 802.11n HT20_Nss1,(MCS0)_1TX EBW

### 5180MHz

29/07/2019

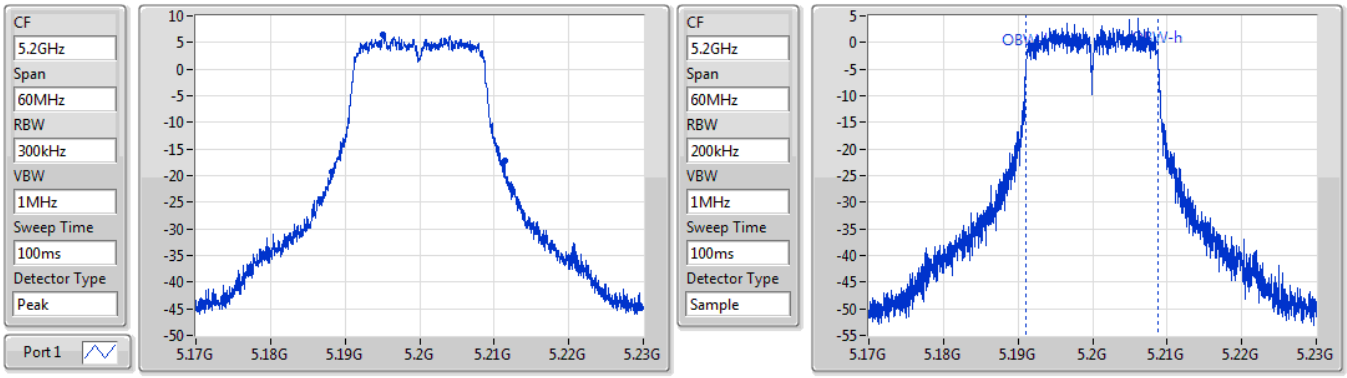



| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 22.89M | 5.16869G | 5.19158G | 17.601M | 5.171184G | 5.188786G | Inf | 1 |

## 802.11n HT20_Nss1,(MCS0)_1TX EBW

### 5200MHz

29/07/2019

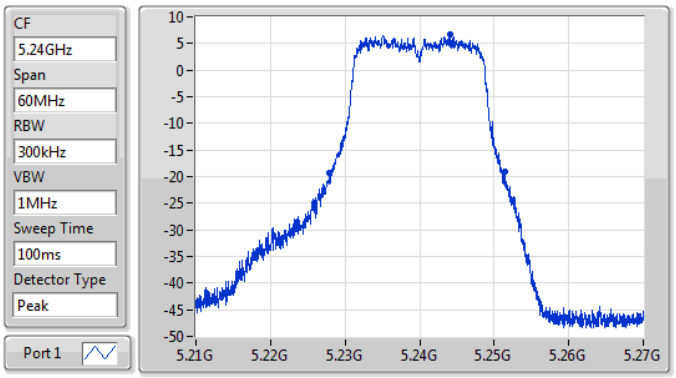


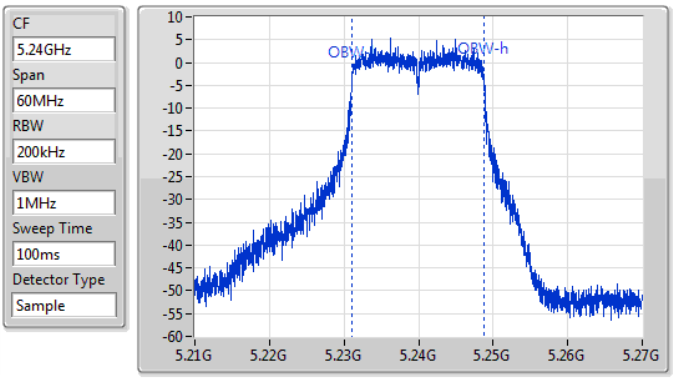

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 23.25M | 5.18824G | 5.21149G | 17.691M | 5.191094G | 5.208786G | Inf | 1 |

## 802.11n HT20_Nss1,(MCS0)_1TX EBW

## 5240MHz

29/07/2019



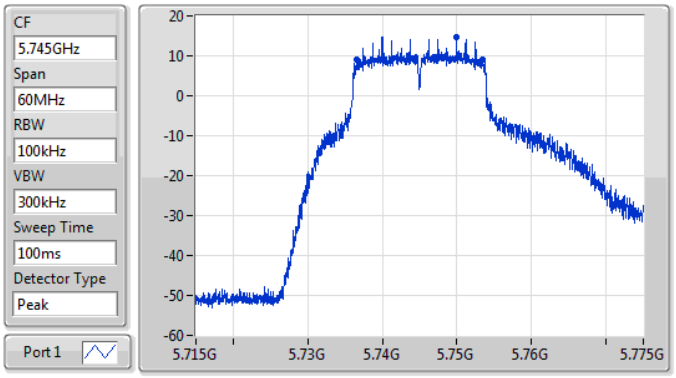



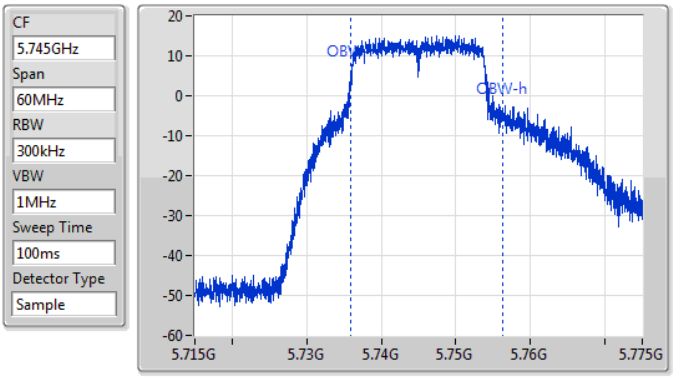

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 23.55M | 5.22785G | 5.2514G | 17.631M | 5.231094G | 5.248726G | Inf | 1 |

## 802.11n HT20_Nss1,(MCS0)_1TX EBW

## 5745MHz

24/07/2019



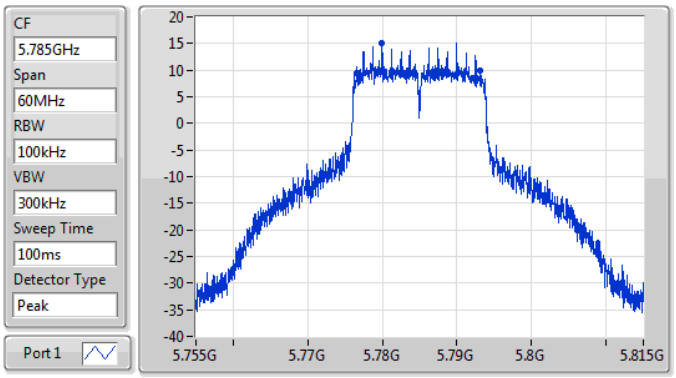



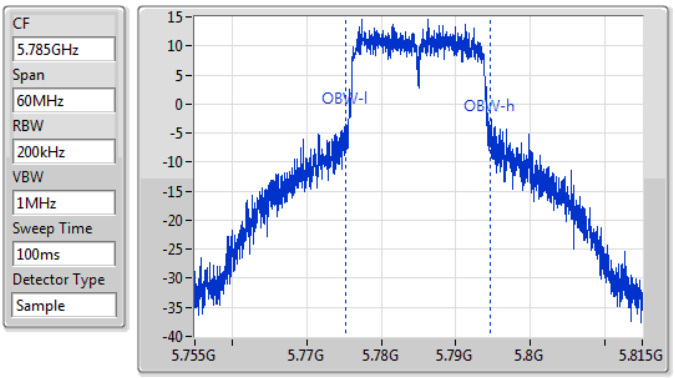

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 16.74M | 5.73663G | 5.75337G | 20.42M | 5.735915G | 5.756334G | 500k | 1 |

## 802.11n HT20_Nss1,(MCS0)_1TX EBW

### 5785MHz

24/07/2019



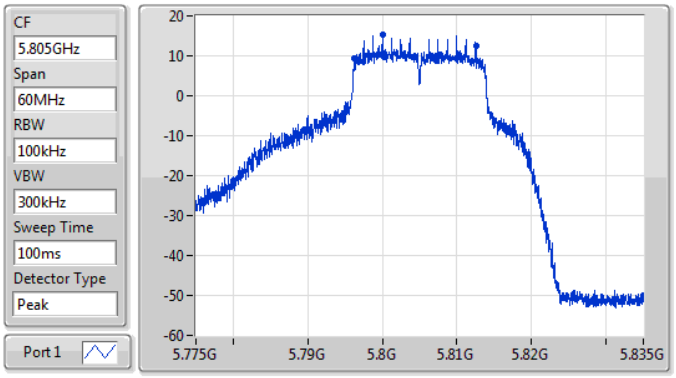



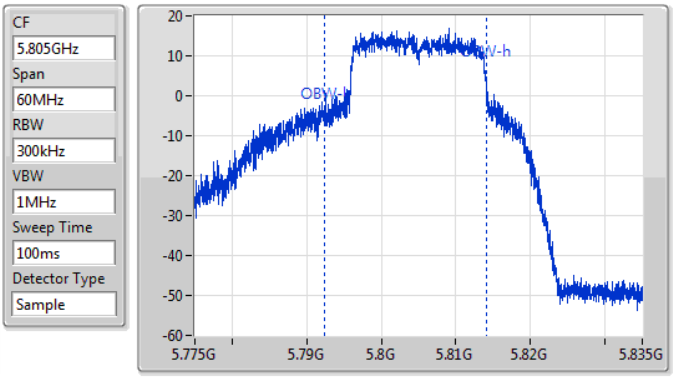

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 16.53M | 5.77657G | 5.7931G | 19.46M | 5.775225G | 5.794685G | 500k | 1 |

## 802.11n HT20_Nss1,(MCS0)_1TX EBW

### 5805MHz

24/07/2019



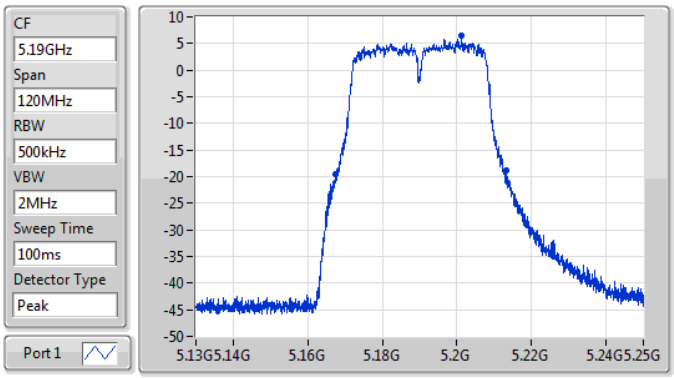



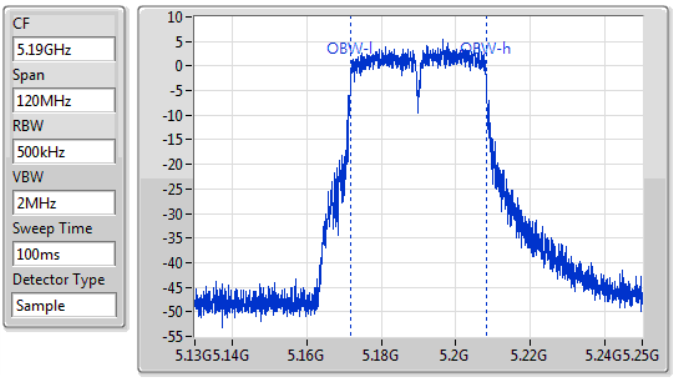

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 16.29M | 5.79624G | 5.81253G | 21.649M | 5.792376G | 5.814025G | 500k | 1 |

## 802.11n HT40_Nss1,(MCS0)_1TX EBW

## 5190MHz

29/07/2019



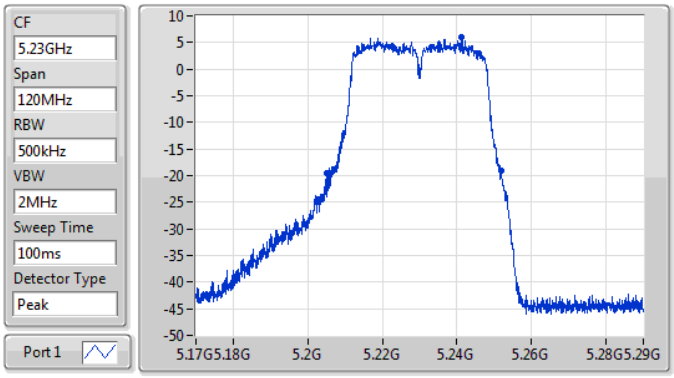



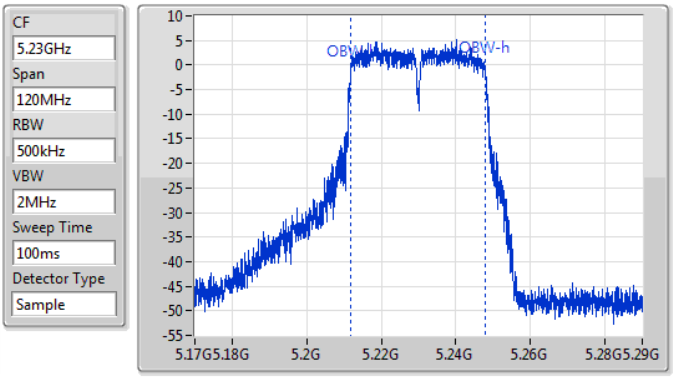

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 45.66M | 5.16756G | 5.21322G | 36.162M | 5.171889G | 5.208051G | Inf | 1 |

## 802.11n HT40_Nss1,(MCS0)_1TX EBW

## 5230MHz

29/07/2019



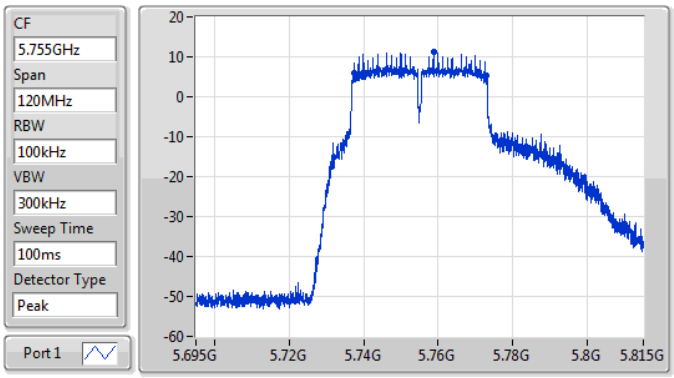



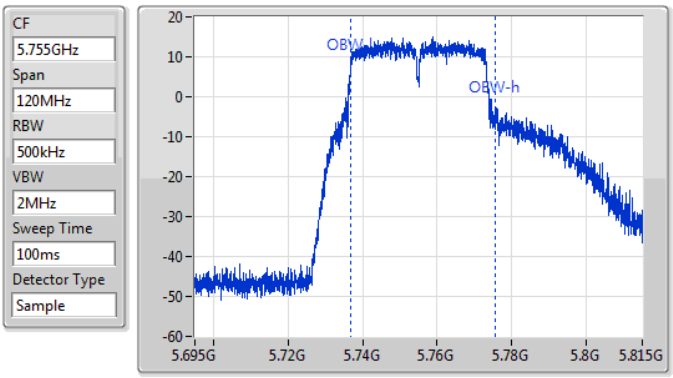

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 46.8M | 5.20516G | 5.25196G | 36.222M | 5.211769G | 5.247991G | Inf | 1 |

## 802.11n HT40_Nss1,(MCS0)_1TX EBW

### 5755MHz

24/07/2019



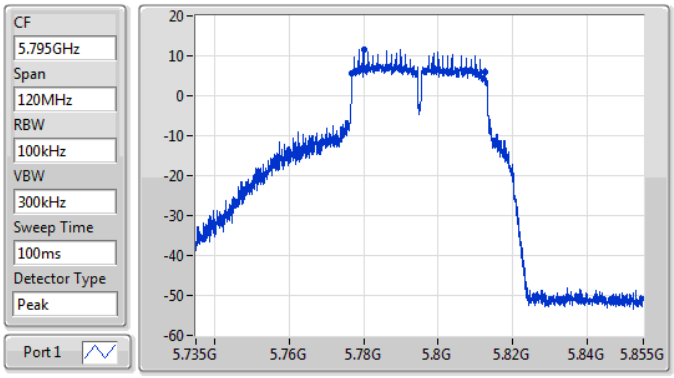



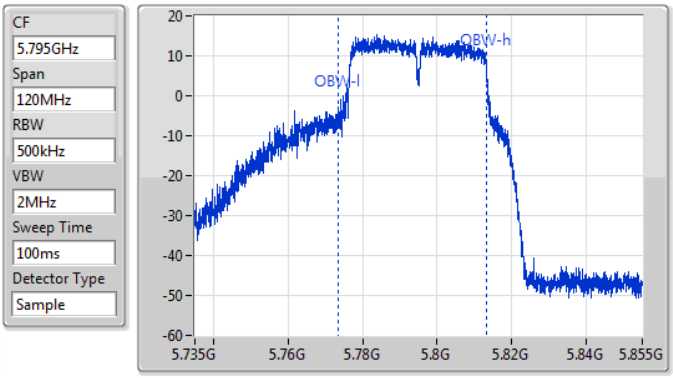

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 35.34M | 5.73742G | 5.77276G | 38.801M | 5.736769G | 5.77557G | 500k | 1 |

## 802.11n HT40_Nss1,(MCS0)_1TX EBW

### 5795MHz

24/07/2019




| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 35.7M | 5.77682G | 5.81252G | 39.46M | 5.773591G | 5.813051G | 500k | 1 |

## Summary

| Mode | Max-N dB (Hz) | Max-OBW (Hz) | ITU-Code | Min-N dB (Hz) | Min-OBW (Hz) |
|---|---|---|---|---|---|
| 5.15-5.25GHz | - | - | - | - | - |
| 802.11a_Nss1,(6Mbps)_1TX | 29.73M | 16.852M | 16M9D1D | 24.42M | 16.552M |
| 802.11n HT20_Nss1,(MCS0)_1TX | 35.25M | 17.931M | 17M9D1D | 27.03M | 17.721M |
| 802.11n HT40_Nss1,(MCS0)_1TX | 62.64M | 36.282M | 36M3D1D | 62.22M | 36.282M |
| 5.725-5.85GHz | - | - | - | - | - |
| 802.11a_Nss1,(6Mbps)_1TX | 15.9M | 20.66M | 20M7D1D | 15.24M | 18.861M |
| 802.11n HT20_Nss1,(MCS0)_1TX | 16.74M | 21.649M | 21M6D1D | 16.29M | 19.46M |
| 802.11n HT40_Nss1,(MCS0)_1TX | 35.7M | 39.46M | 39M5D1D | 35.34M | 38.801M |

**Max-N dB** = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
**Max-OBW** = Maximum99% occupied bandwidth;
**Min-N dB** = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
**Min-OBW** = Minimum 99% occupied bandwidth;

## Result

| Mode | Result | Limit (Hz) | Port 1-N dB (Hz) | Port 1-OBW (Hz) |
|---|---|---|---|---|
| 802.11a_Nss1,(6Mbps)_1TX | - | - | - | - |
| 5180MHz | Pass | Inf | 24.42M | 16.552M |
| 5200MHz | Pass | Inf | 25.65M | 16.582M |
| 5240MHz | Pass | Inf | 29.73M | 16.852M |
| 5745MHz | Pass | 500k | 15.24M | 19.76M |
| 5785MHz | Pass | 500k | 15.9M | 18.861M |
| 5805MHz | Pass | 500k | 15.66M | 20.66M |
| 802.11n HT20_Nss1,(MCS0)_1TX | - | - | - | - |
| 5180MHz | Pass | Inf | 27.03M | 17.751M |
| 5200MHz | Pass | Inf | 28.95M | 17.721M |
| 5240MHz | Pass | Inf | 35.25M | 17.931M |
| 5745MHz | Pass | 500k | 16.74M | 20.42M |
| 5785MHz | Pass | 500k | 16.53M | 19.46M |
| 5805MHz | Pass | 500k | 16.29M | 21.649M |
| 802.11n HT40_Nss1,(MCS0)_1TX | - | - | - | - |
| 5190MHz | Pass | Inf | 62.22M | 36.282M |
| 5230MHz | Pass | Inf | 62.64M | 36.282M |
| 5755MHz | Pass | 500k | 35.34M | 38.801M |
| 5795MHz | Pass | 500k | 35.7M | 39.46M |

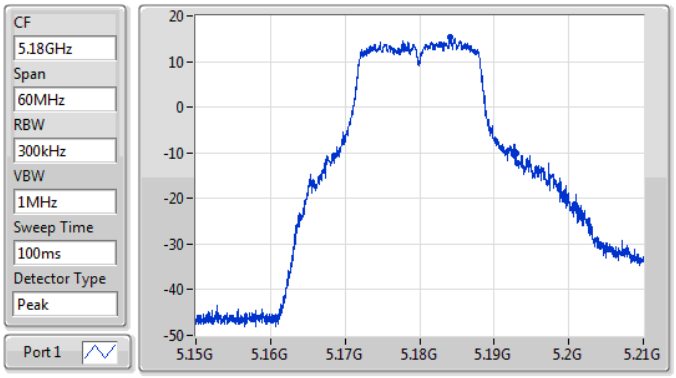
**Port X-N dB** = Port **X** 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
**Port X-OBW** = Port **X** 99% occupied bandwidth;

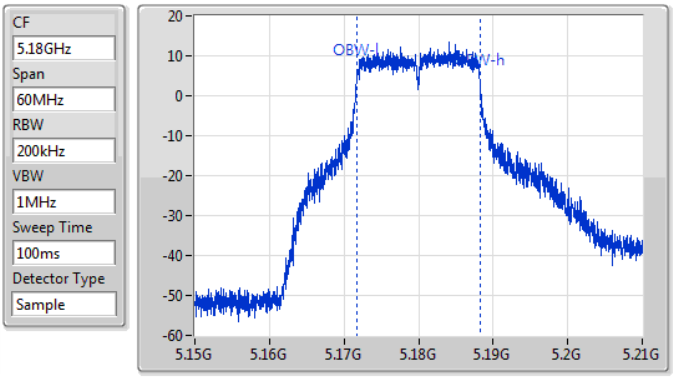
## 802.11a_Nss1,(6Mbps)_1TX

## EBW

## 5180MHz

29/07/2019



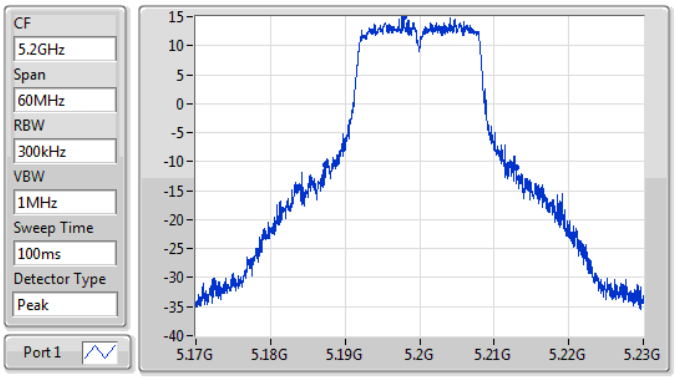

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 24.42M | 5.16857G | 5.19299G | 16.552M | 5.171694G | 5.188246G | Inf | 1 |

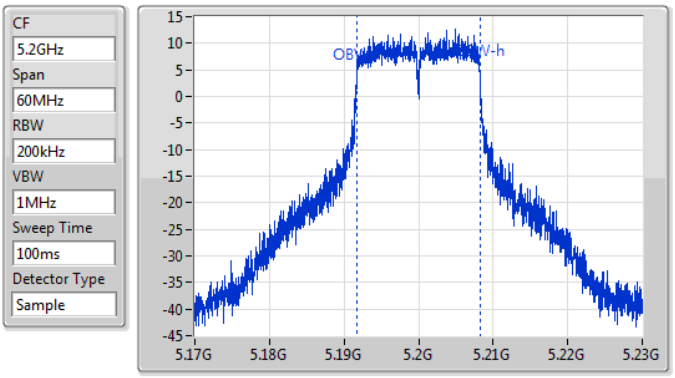
## 802.11a_Nss1,(6Mbps)_1TX

## EBW

## 5200MHz

29/07/2019



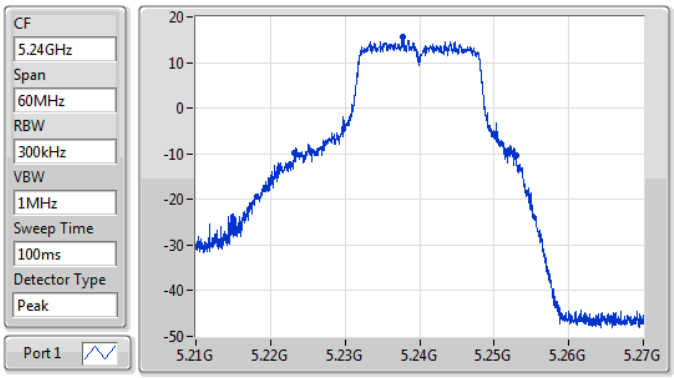

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 25.65M | 5.18731G | 5.21296G | 16.582M | 5.191664G | 5.208246G | Inf | 1 |

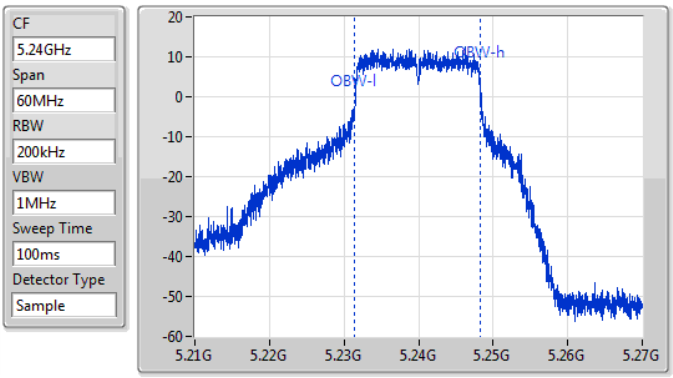
## 802.11a_Nss1,(6Mbps)_1TX

## EBW

## 5240MHz

29/07/2019



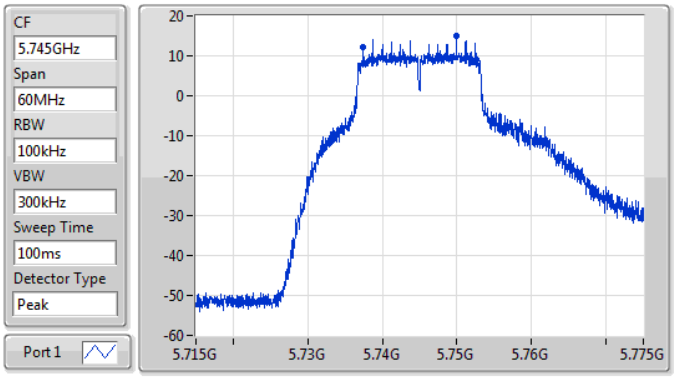

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 29.73M | 5.2232G | 5.25293G | 16.852M | 5.231364G | 5.248216G | Inf | 1 |

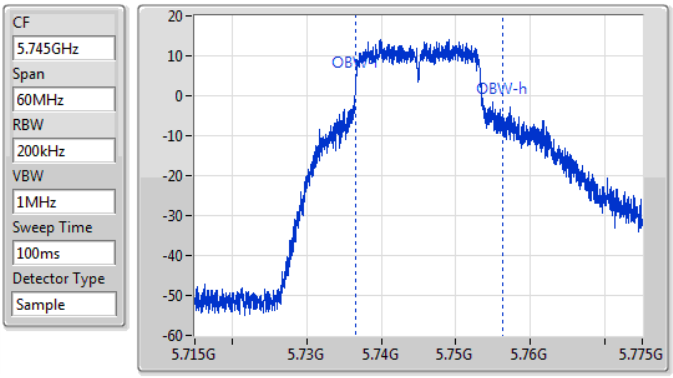
## 802.11a_Nss1,(6Mbps)_1TX

## EBW

## 5745MHz

26/07/2019



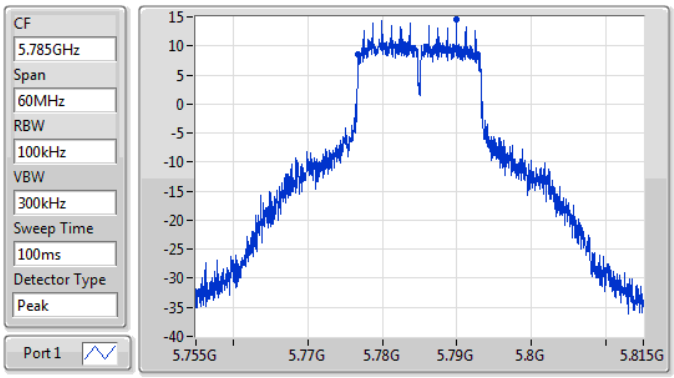



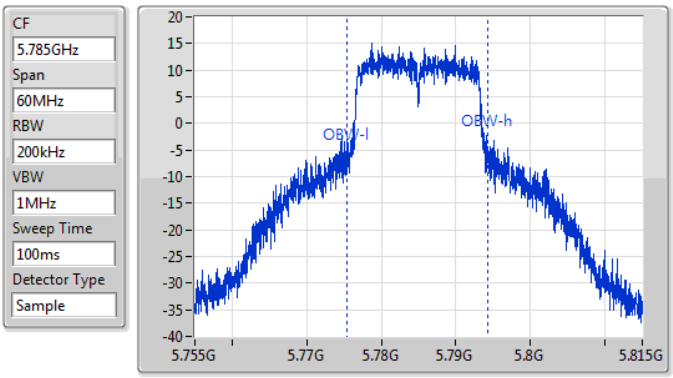

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 15.24M | 5.73744G | 5.75268G | 19.76M | 5.736514G | 5.756274G | 500k | 1 |

## 802.11a_Nss1,(6Mbps)_1TX EBW

## 5785MHz

26/07/2019



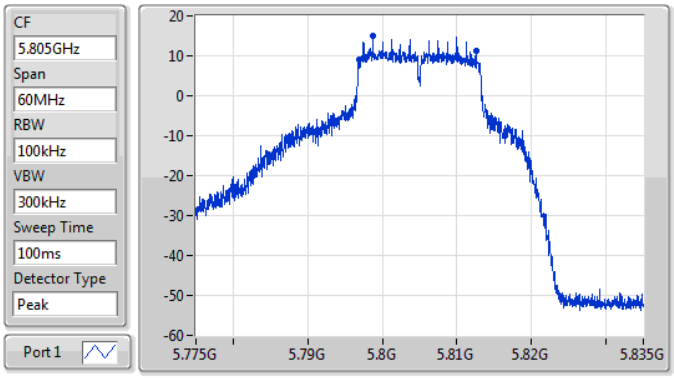



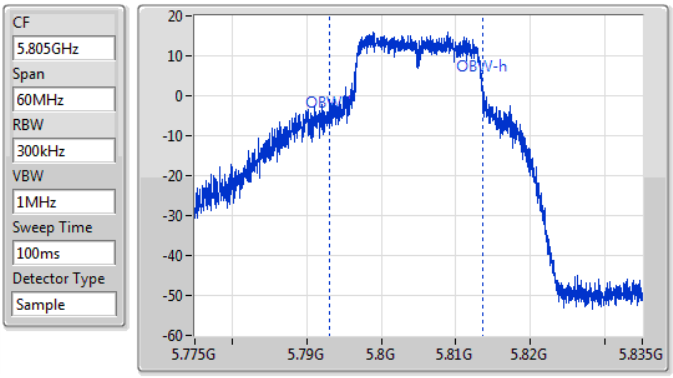

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 15.9M | 5.77681G | 5.79271G | 18.861M | 5.775375G | 5.794235G | 500k | 1 |

## 802.11a_Nss1,(6Mbps)_1TX EBW

## 5805MHz

26/07/2019



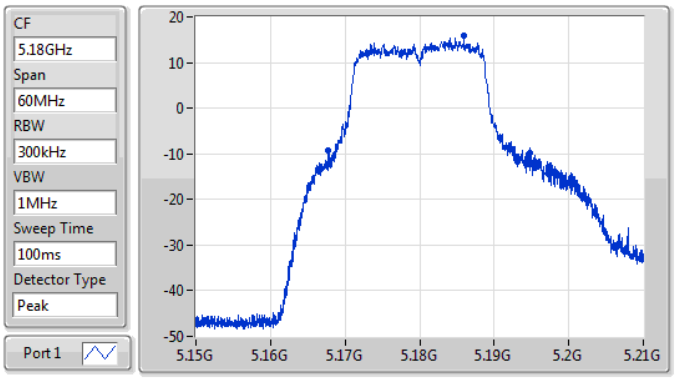

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 15.66M | 5.79687G | 5.81253G | 20.66M | 5.792976G | 5.813636G | 500k | 1 |

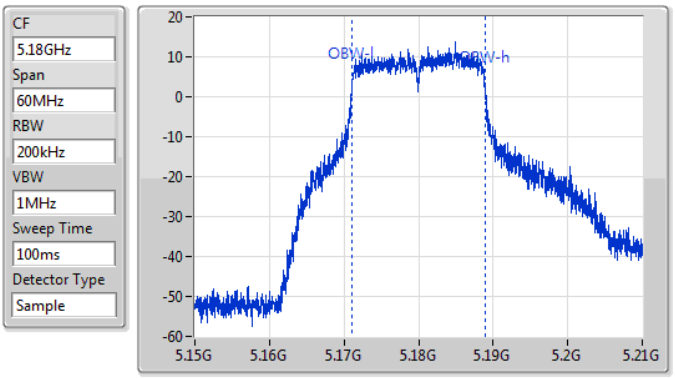
## 802.11n HT20_Nss1,(MCS0)_1TX

**EBW**

**5180MHz**

29/07/2019



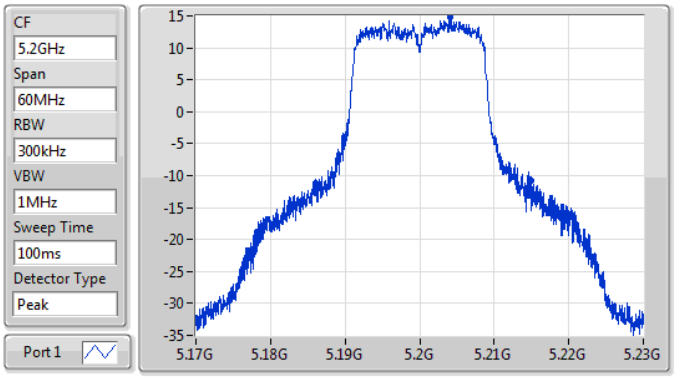

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 27.03M | 5.16779G | 5.19482G | 17.751M | 5.171124G | 5.188876G | Inf | 1 |

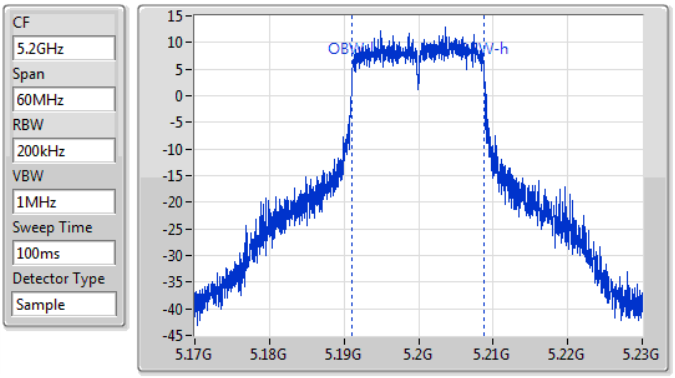
## 802.11n HT20_Nss1,(MCS0)_1TX

**EBW**

**5200MHz**

29/07/2019



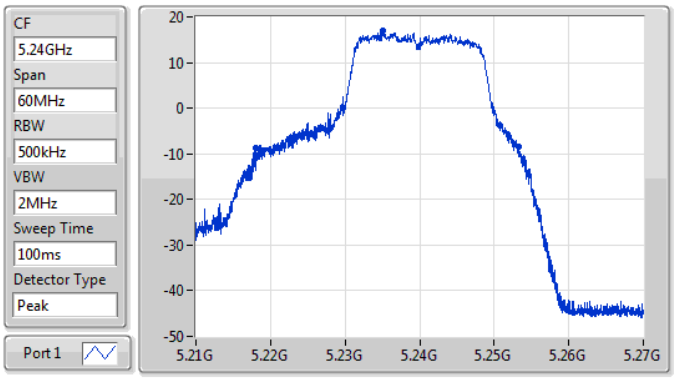

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 28.95M | 5.18602G | 5.21497G | 17.721M | 5.191094G | 5.208816G | Inf | 1 |

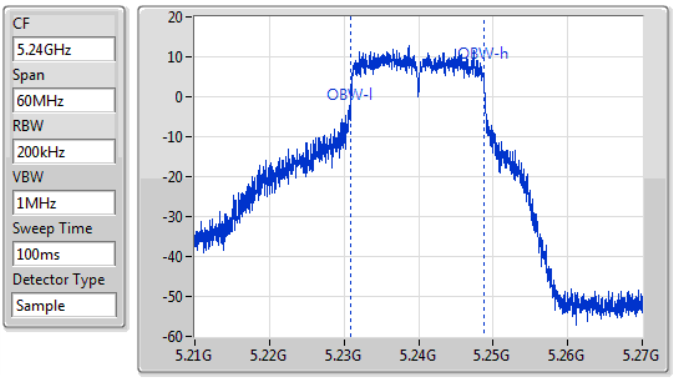
## 802.11n HT20_Nss1,(MCS0)_1TX

**EBW**

**5240MHz**

29/07/2019



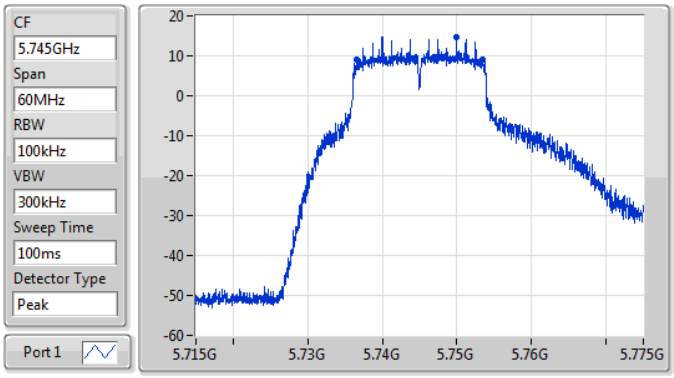

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 35.25M | 5.2181G | 5.25335G | 17.931M | 5.230825G | 5.248756G | Inf | 1 |

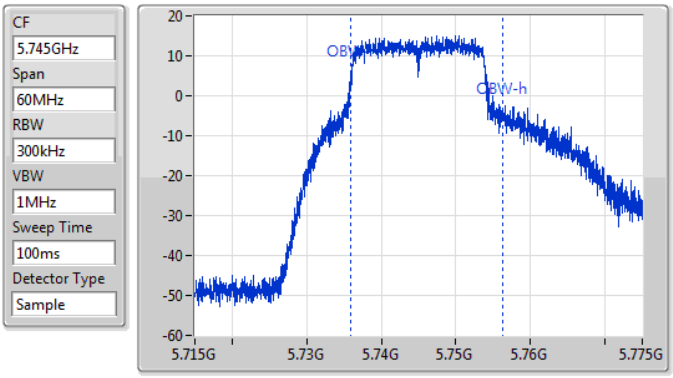
## 802.11n HT20_Nss1,(MCS0)_1TX

**EBW**

**5745MHz**

24/07/2019



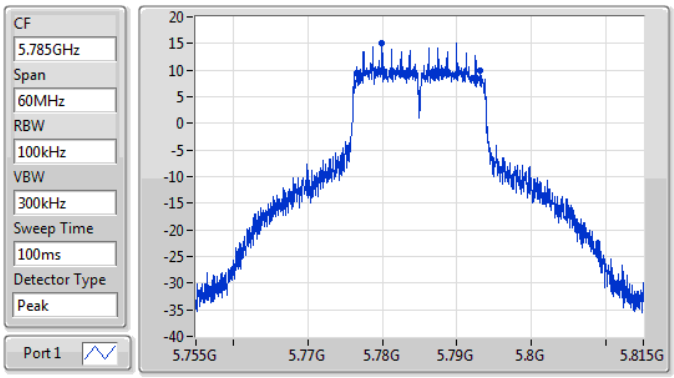

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 16.74M | 5.73663G | 5.75337G | 20.42M | 5.735915G | 5.756334G | 500k | 1 |

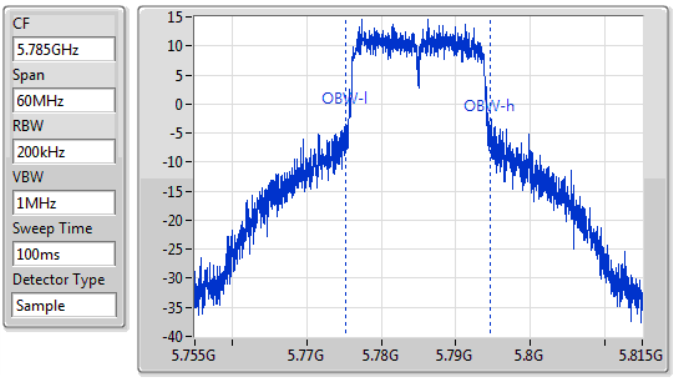
## 802.11n HT20_Nss1,(MCS0)_1TX

**EBW**

**5785MHz**

24/07/2019



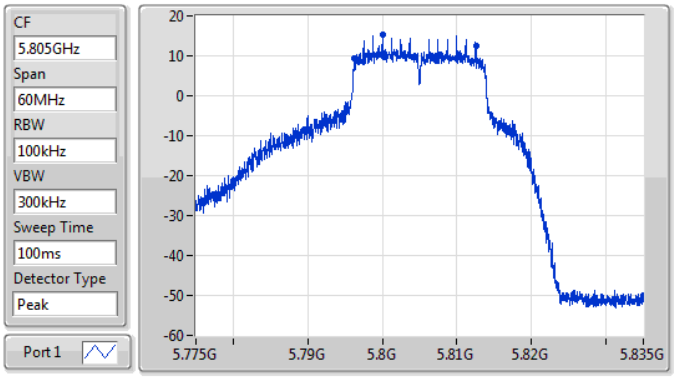

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 16.53M | 5.77657G | 5.7931G | 19.46M | 5.775225G | 5.794685G | 500k | 1 |

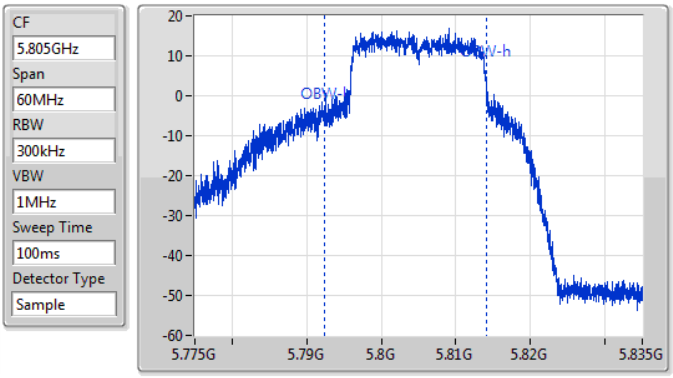
## 802.11n HT20_Nss1,(MCS0)_1TX

**EBW**

**5805MHz**

24/07/2019



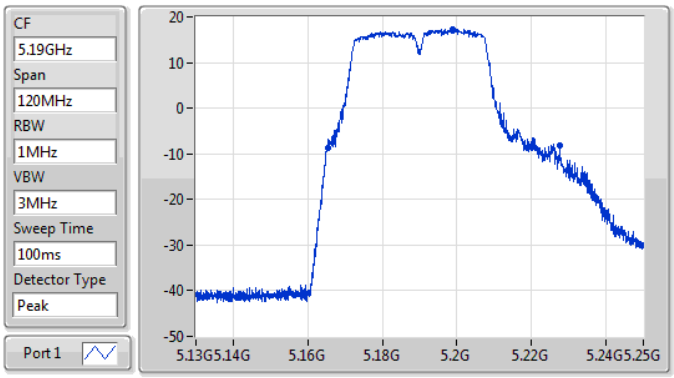

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 16.29M | 5.79624G | 5.81253G | 21.649M | 5.792376G | 5.814025G | 500k | 1 |

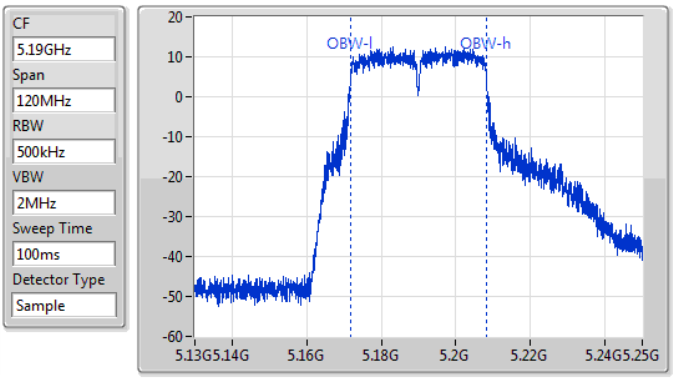
## 802.11n HT40_Nss1,(MCS0)_1TX

**EBW**

**5190MHz**

29/07/2019



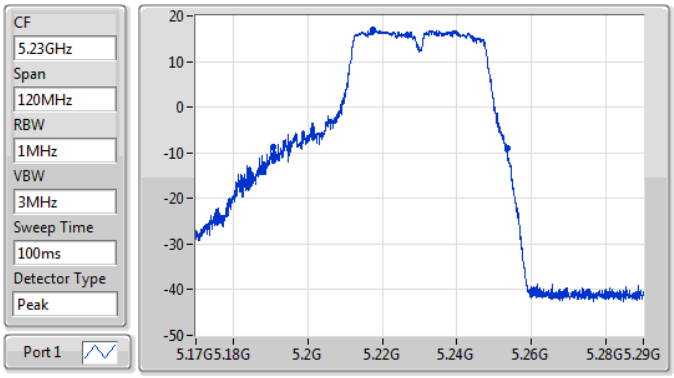

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 62.22M | 5.1654G | 5.22762G | 36.282M | 5.171889G | 5.208171G | Inf | 1 |

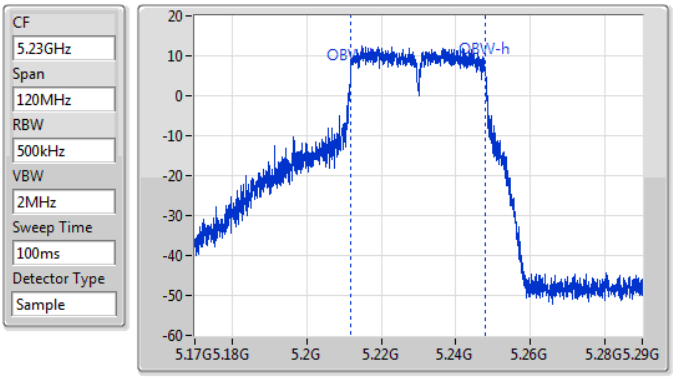
## 802.11n HT40_Nss1,(MCS0)_1TX

**EBW**

**5230MHz**

29/07/2019



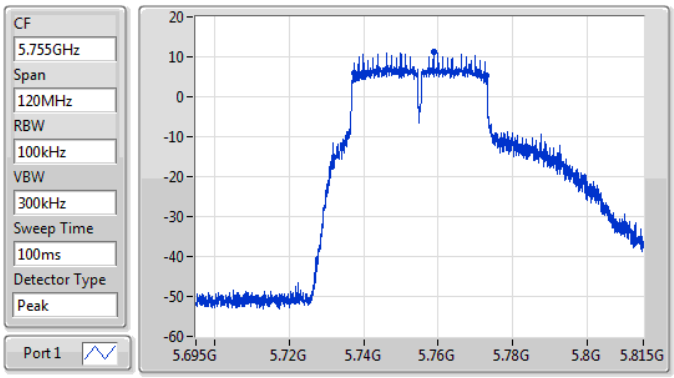

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 62.64M | 5.19076G | 5.2534G | 36.282M | 5.211649G | 5.247931G | Inf | 1 |

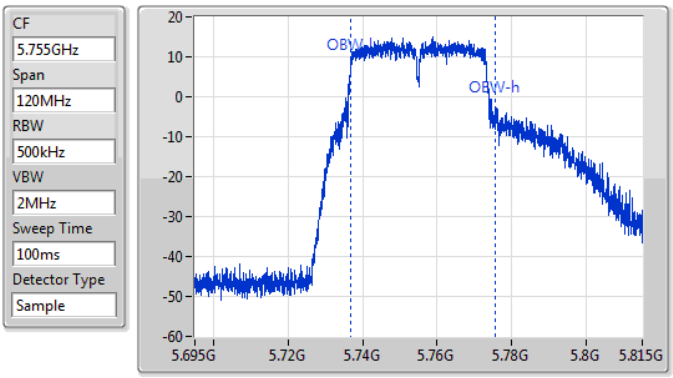
## 802.11n HT40_Nss1,(MCS0)_1TX

**EBW**

**5755MHz**

24/07/2019



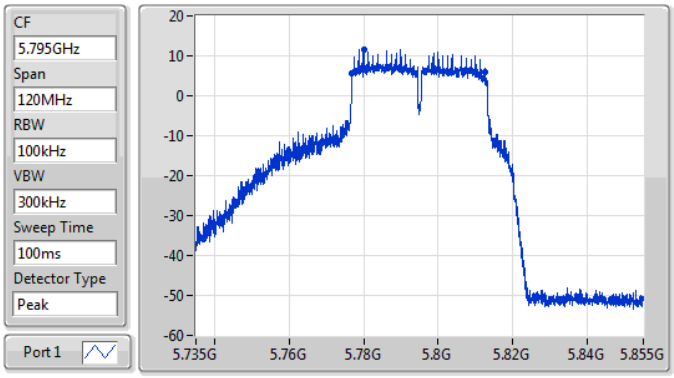

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 35.34M | 5.73742G | 5.77276G | 38.801M | 5.736769G | 5.77557G | 500k | 1 |

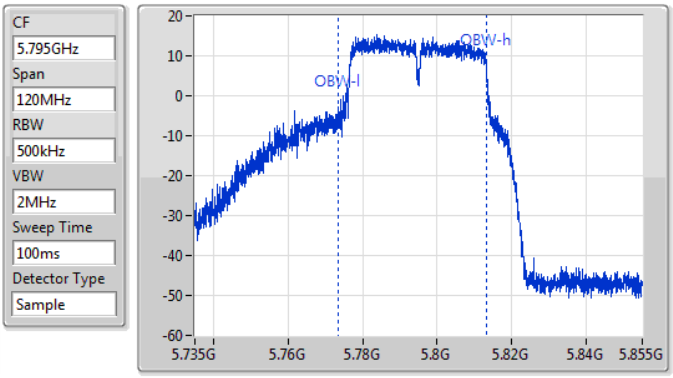
## 802.11n HT40_Nss1,(MCS0)_1TX

**EBW**

**5795MHz**

24/07/2019




| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 35.7M | 5.77682G | 5.81252G | 39.46M | 5.773591G | 5.813051G | 500k | 1 |

**Summary**

| Mode | Total Power (dBm) | Total Power (W) | EIRP (dBm) | EIRP (W) |
|---|---|---|---|---|
| 5.15-5.25GHz | - | - | - | - |
| 802.11a_Nss1,(6Mbps)_1TX | 15.90 | 0.03890 | 20.90 | 0.12303 |
| 802.11n HT20_Nss1,(MCS0)_1TX | 15.87 | 0.03864 | 20.87 | 0.12218 |
| 802.11n HT40_Nss1,(MCS0)_1TX | 15.81 | 0.03811 | 20.81 | 0.12050 |
| 5.725-5.85GHz | - | - | - | - |
| 802.11a_Nss1,(6Mbps)_1TX | 25.36 | 0.34356 | 30.36 | 1.08643 |
| 802.11n HT20_Nss1,(MCS0)_1TX | 25.19 | 0.33037 | 30.19 | 1.04472 |
| 802.11n HT40_Nss1,(MCS0)_1TX | 25.00 | 0.31623 | 30.00 | 1.00000 |

**Result**

| Mode | Result | DG (dBi) | Port 1 (dBm) | Total Power (dBm) | Power Limit (dBm) | EIRP (dBm) | EIRP Limit (dBm) |
|---|---|---|---|---|---|---|---|
| 802.11a_Nss1,(6Mbps)_1TX | - | - | - | - | - | - | - |
| 5180MHz | Pass | 5.00 | 15.72 | 15.72 | 30.00 | 20.72 | 36.00 |
| 5200MHz | Pass | 5.00 | 15.90 | 15.90 | 30.00 | 20.90 | 36.00 |
| 5240MHz | Pass | 5.00 | 15.82 | 15.82 | 30.00 | 20.82 | 36.00 |
| 5745MHz | Pass | 5.00 | 24.97 | 24.97 | 30.00 | 29.97 | 36.00 |
| 5785MHz | Pass | 5.00 | 25.19 | 25.19 | 30.00 | 30.19 | 36.00 |
| 5805MHz | Pass | 5.00 | 25.36 | 25.36 | 30.00 | 30.36 | 36.00 |
| 802.11n HT20_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - |
| 5180MHz | Pass | 5.00 | 15.87 | 15.87 | 30.00 | 20.87 | 36.00 |
| 5200MHz | Pass | 5.00 | 15.71 | 15.71 | 30.00 | 20.71 | 36.00 |
| 5240MHz | Pass | 5.00 | 15.80 | 15.80 | 30.00 | 20.80 | 36.00 |
| 5745MHz | Pass | 5.00 | 24.63 | 24.63 | 30.00 | 29.63 | 36.00 |
| 5785MHz | Pass | 5.00 | 24.78 | 24.78 | 30.00 | 29.78 | 36.00 |
| 5805MHz | Pass | 5.00 | 25.19 | 25.19 | 30.00 | 30.19 | 36.00 |
| 802.11n HT40_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - |
| 5190MHz | Pass | 5.00 | 15.76 | 15.76 | 30.00 | 20.76 | 36.00 |
| 5230MHz | Pass | 5.00 | 15.81 | 15.81 | 30.00 | 20.81 | 36.00 |
| 5755MHz | Pass | 5.00 | 24.74 | 24.74 | 30.00 | 29.74 | 36.00 |
| 5795MHz | Pass | 5.00 | 25.00 | 25.00 | 30.00 | 30.00 | 36.00 |

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

**Summary**

| Mode | Total Power (dBm) | Total Power (W) | EIRP (dBm) | EIRP (W) |
|---|---|---|---|---|
| 5.15-5.25GHz | - | - | - | - |
| 802.11a_Nss1,(6Mbps)_1TX | 23.96 | 0.24889 | 28.96 | 0.78705 |
| 802.11n HT20_Nss1,(MCS0)_1TX | 23.96 | 0.24889 | 28.96 | 0.78705 |
| 802.11n HT40_Nss1,(MCS0)_1TX | 23.97 | 0.24946 | 28.97 | 0.78886 |
| 5.725-5.85GHz | - | - | - | - |
| 802.11a_Nss1,(6Mbps)_1TX | 25.36 | 0.34356 | 30.36 | 1.08643 |
| 802.11n HT20_Nss1,(MCS0)_1TX | 25.19 | 0.33037 | 30.19 | 1.04472 |
| 802.11n HT40_Nss1,(MCS0)_1TX | 25.00 | 0.31623 | 30.00 | 1.00000 |

## Result

| Mode | Result | DG (dBi) | Port 1 (dBm) | Total Power (dBm) | Power Limit (dBm) | EIRP (dBm) | EIRP Limit (dBm) |
|---|---|---|---|---|---|---|---|
| 802.11a_Nss1,(6Mbps)_1TX | - | - | - | - | - | - | - |
| 5180MHz | Pass | 5.00 | 23.96 | 23.96 | 24.00 | 28.96 | 30.00 |
| 5200MHz | Pass | 5.00 | 23.81 | 23.81 | 24.00 | 28.81 | 30.00 |
| 5240MHz | Pass | 5.00 | 23.82 | 23.82 | 24.00 | 28.82 | 30.00 |
| 5745MHz | Pass | 5.00 | 24.97 | 24.97 | 30.00 | 29.97 | 36.00 |
| 5785MHz | Pass | 5.00 | 25.19 | 25.19 | 30.00 | 30.19 | 36.00 |
| 5805MHz | Pass | 5.00 | 25.36 | 25.36 | 30.00 | 30.36 | 36.00 |
| 802.11n HT20_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - |
| 5180MHz | Pass | 5.00 | 23.96 | 23.96 | 24.00 | 28.96 | 30.00 |
| 5200MHz | Pass | 5.00 | 23.59 | 23.59 | 24.00 | 28.59 | 30.00 |
| 5240MHz | Pass | 5.00 | 23.76 | 23.76 | 24.00 | 28.76 | 30.00 |
| 5745MHz | Pass | 5.00 | 24.63 | 24.63 | 30.00 | 29.63 | 36.00 |
| 5785MHz | Pass | 5.00 | 24.78 | 24.78 | 30.00 | 29.78 | 36.00 |
| 5805MHz | Pass | 5.00 | 25.19 | 25.19 | 30.00 | 30.19 | 36.00 |
| 802.11n HT40_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - |
| 5190MHz | Pass | 5.00 | 23.97 | 23.97 | 24.00 | 28.97 | 30.00 |
| 5230MHz | Pass | 5.00 | 23.64 | 23.64 | 24.00 | 28.64 | 30.00 |
| 5755MHz | Pass | 5.00 | 24.74 | 24.74 | 30.00 | 29.74 | 36.00 |
| 5795MHz | Pass | 5.00 | 25.00 | 25.00 | 30.00 | 30.00 | 36.00 |

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

## Summary

| Mode | PD (dBm/RBW) | EIRP PD (dBm/RBW) |
|---|---|---|
| 5.15-5.25GHz | - | - |
| 802.11a_Nss1,(6Mbps)_1TX | 2.66 | 7.66 |
| 802.11n HT20_Nss1,(MCS0)_1TX | 2.80 | 7.80 |
| 802.11n HT40_Nss1,(MCS0)_1TX | -0.63 | 4.37 |
| 5.725-5.85GHz | - | - |
| 802.11a_Nss1,(6Mbps)_1TX | 11.38 | 16.38 |
| 802.11n HT20_Nss1,(MCS0)_1TX | 11.43 | 16.43 |
| 802.11n HT40_Nss1,(MCS0)_1TX | 8.35 | 13.35 |

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

## Result

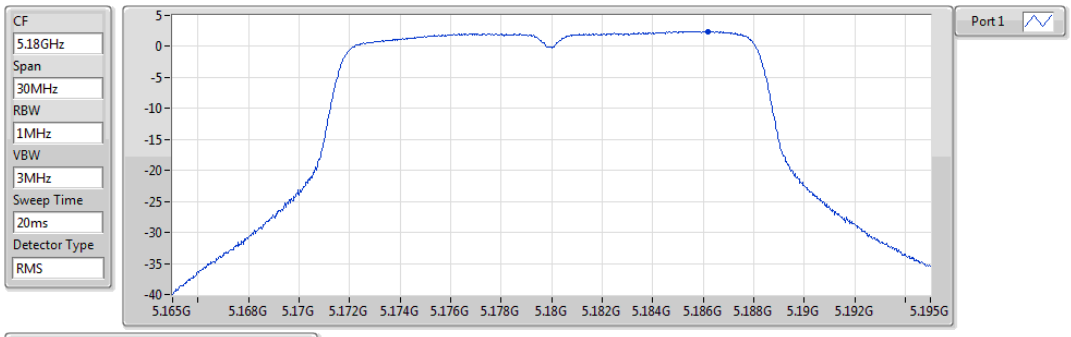
| Mode | Result | DG (dBi) | Port 1 (dBm/RBW) | PD (dBm/RBW) | PD Limit (dBm/RBW) | EIRP PD (dBm/RBW) | EIRP PD Limit (dBm/RBW) |
|---|---|---|---|---|---|---|---|
| 802.11a_Nss1,(6Mbps)_1TX | - | - | - | - | - | - | - |
| 5180MHz | Pass | 5.00 | 2.45 | 2.45 | 17.00 | 7.45 | 23.00 |
| 5200MHz | Pass | 5.00 | 2.66 | 2.66 | 17.00 | 7.66 | 23.00 |
| 5240MHz | Pass | 5.00 | 2.61 | 2.61 | 17.00 | 7.61 | 23.00 |
| 5745MHz | Pass | 5.00 | 10.82 | 10.82 | 30.00 | 15.82 | 36.00 |
| 5785MHz | Pass | 5.00 | 11.02 | 11.02 | 30.00 | 16.02 | 36.00 |
| 5805MHz | Pass | 5.00 | 11.38 | 11.38 | 30.00 | 16.38 | 36.00 |
| 802.11n HT20_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - |
| 5180MHz | Pass | 5.00 | 2.80 | 2.80 | 17.00 | 7.80 | 23.00 |
| 5200MHz | Pass | 5.00 | 2.06 | 2.06 | 17.00 | 7.06 | 23.00 |
| 5240MHz | Pass | 5.00 | 2.47 | 2.47 | 17.00 | 7.47 | 23.00 |
| 5745MHz | Pass | 5.00 | 10.90 | 10.90 | 30.00 | 15.90 | 36.00 |
| 5785MHz | Pass | 5.00 | 11.00 | 11.00 | 30.00 | 16.00 | 36.00 |
| 5805MHz | Pass | 5.00 | 11.43 | 11.43 | 30.00 | 16.43 | 36.00 |
| 802.11n HT40_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - |
| 5190MHz | Pass | 5.00 | -0.70 | -0.70 | 17.00 | 4.30 | 23.00 |
| 5230MHz | Pass | 5.00 | -0.63 | -0.63 | 17.00 | 4.37 | 23.00 |
| 5755MHz | Pass | 5.00 | 7.58 | 7.58 | 30.00 | 12.58 | 36.00 |
| 5795MHz | Pass | 5.00 | 8.35 | 8.35 | 30.00 | 13.35 | 36.00 |

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

## 802.11a_Nss1,(6Mbps)_1TX PSD

### 5180MHz

29/07/2019

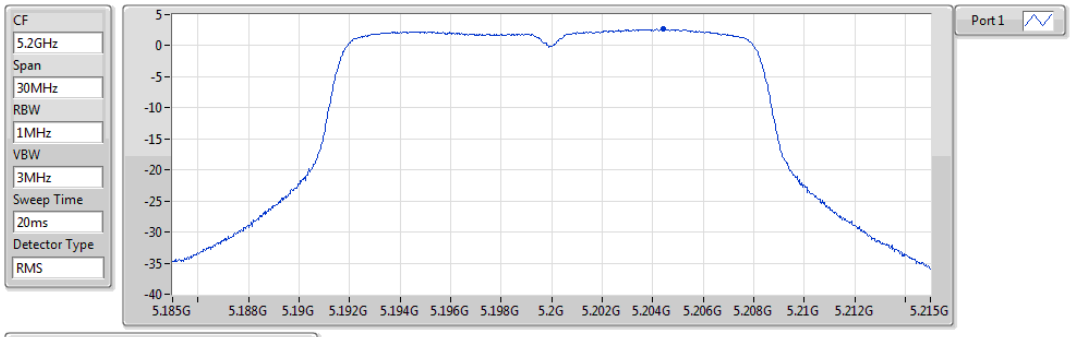



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 2.45 | 2.45 | 2.45 |

## 802.11a_Nss1,(6Mbps)_1TX PSD

### 5200MHz

29/07/2019

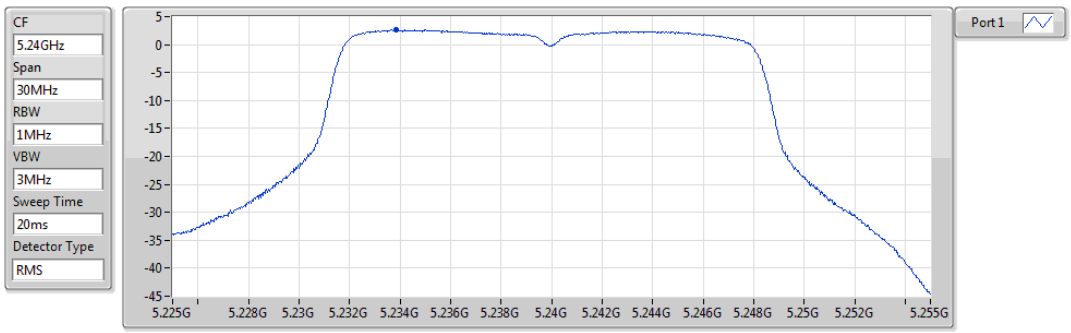



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 2.66 | 2.66 | 2.66 |

## 802.11a_Nss1,(6Mbps)_1TX PSD

### 5240MHz

29/07/2019

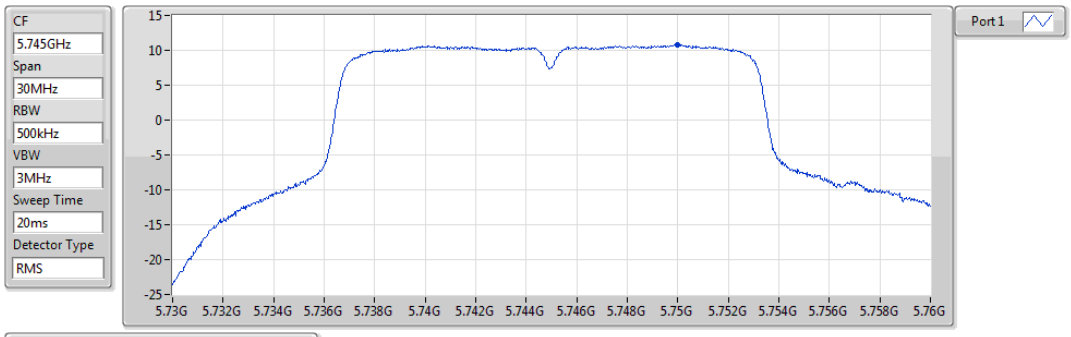



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 2.61 | 2.61 | 2.61 |

## 802.11a_Nss1,(6Mbps)_1TX PSD

### 5745MHz

26/07/2019

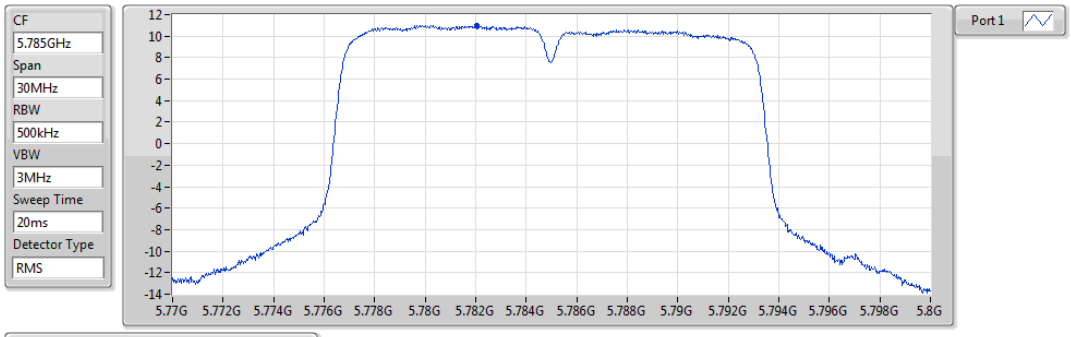



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 10.82 | 10.82 | 10.82 |

## 802.11a_Nss1,(6Mbps)_1TX PSD

### 5785MHz

26/07/2019

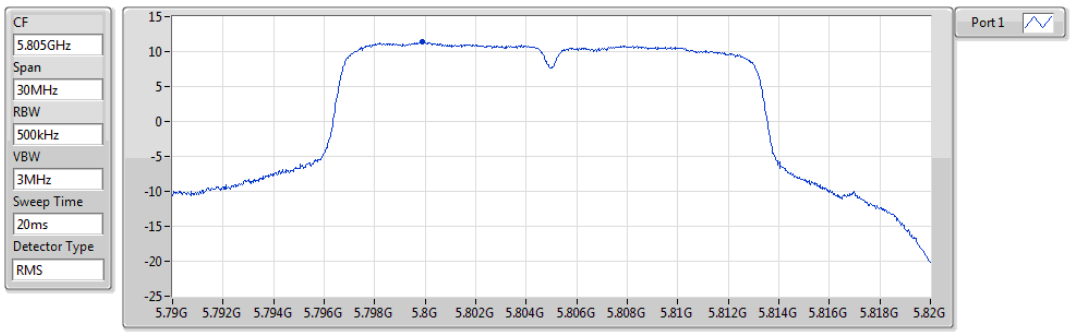



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 11.02 | 11.02 | 11.02 |

## 802.11a_Nss1,(6Mbps)_1TX PSD

### 5805MHz

26/07/2019

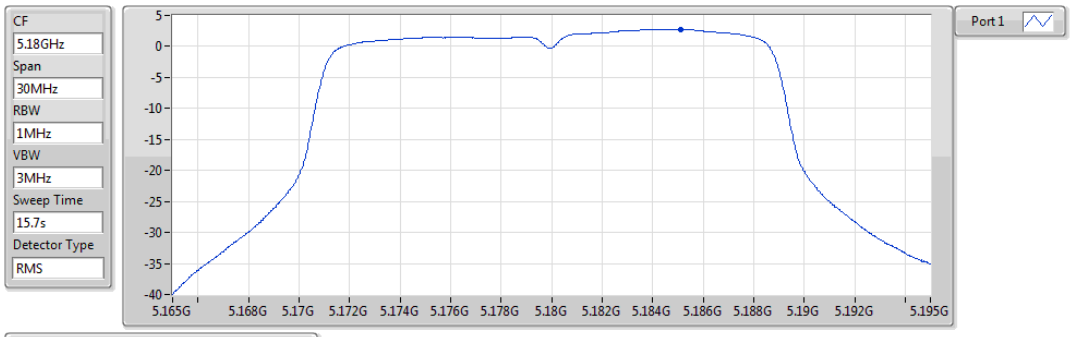



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 11.38 | 11.38 | 11.38 |

## 802.11n HT20_Nss1,(MCS0)_1TX PSD

### 5180MHz

29/07/2019

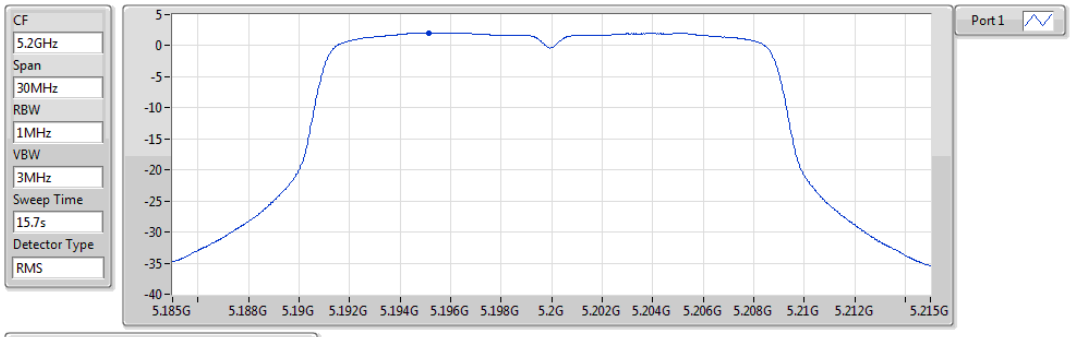



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 2.80 | 2.80 | 2.80 |

## 802.11n HT20_Nss1,(MCS0)_1TX PSD

### 5200MHz

29/07/2019

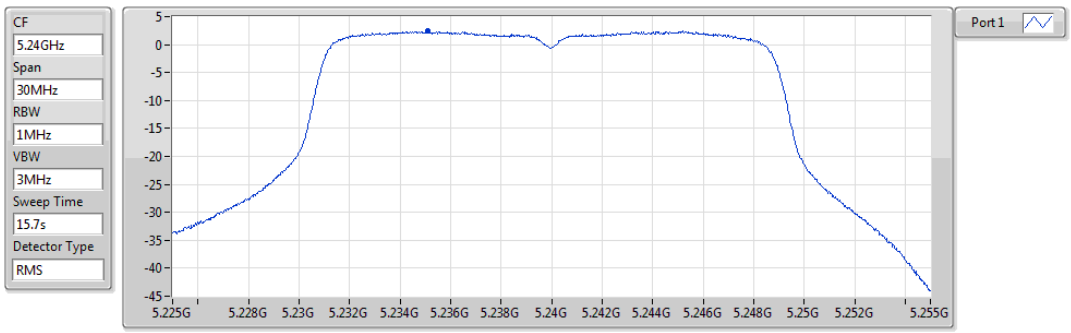



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 2.06 | 2.06 | 2.06 |

## 802.11n HT20_Nss1,(MCS0)_1TX PSD

### 5240MHz

29/07/2019

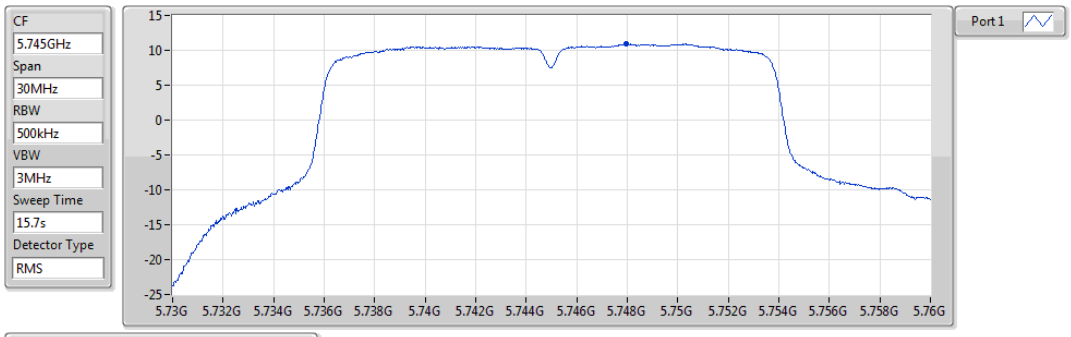



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 2.47 | 2.47 | 2.47 |

## 802.11n HT20_Nss1,(MCS0)_1TX PSD

### 5745MHz

24/07/2019

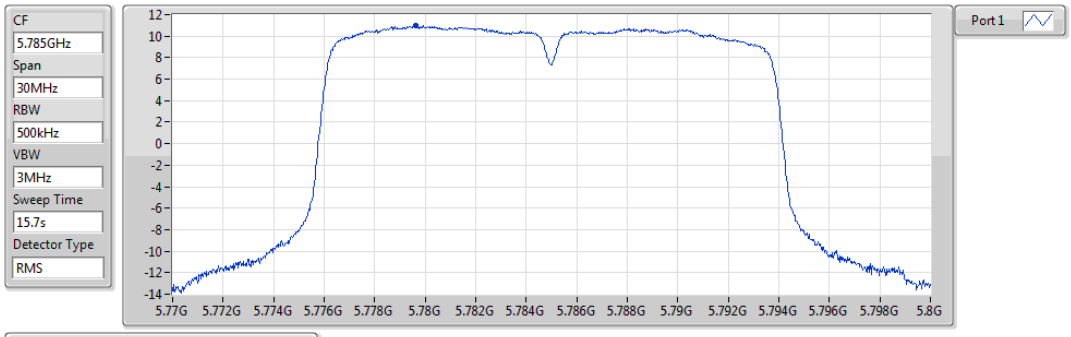



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 10.90 | 10.90 | 10.90 |

## 802.11n HT20_Nss1,(MCS0)_1TX PSD

### 5785MHz

24/07/2019

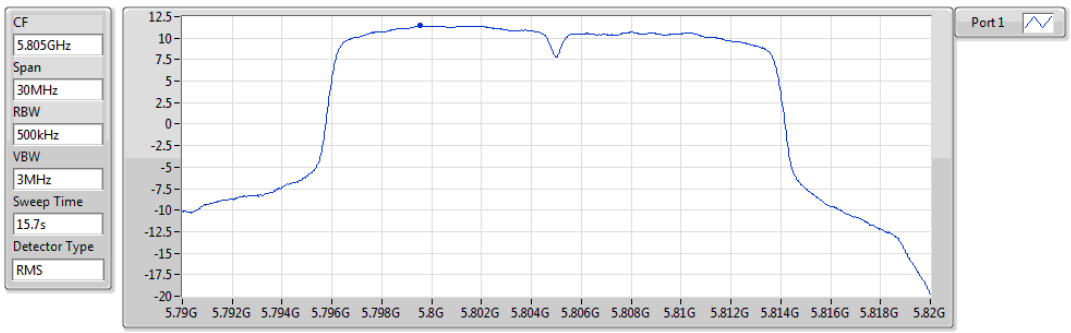



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 11.00 | 11.00 | 11.00 |

## 802.11n HT20_Nss1,(MCS0)_1TX PSD

### 5805MHz

24/07/2019

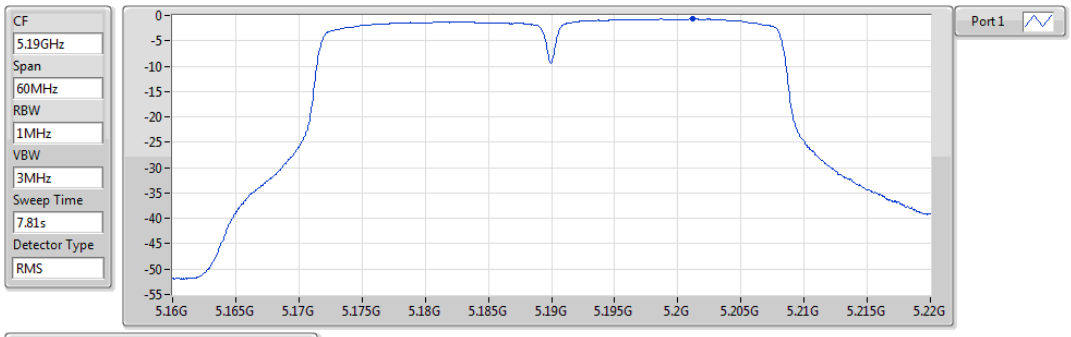



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 11.43 | 11.43 | 11.43 |

## 802.11n HT40_Nss1,(MCS0)_1TX PSD

### 5190MHz

29/07/2019

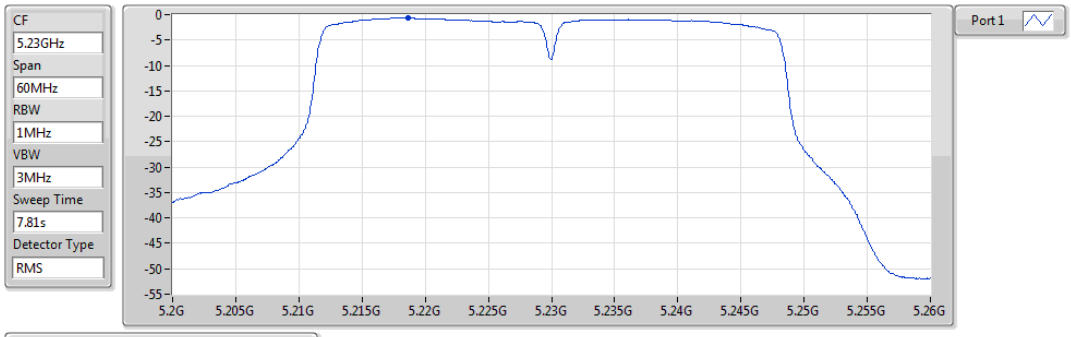



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -0.70 | -0.70 | -0.70 |

## 802.11n HT40_Nss1,(MCS0)_1TX PSD

### 5230MHz

29/07/2019

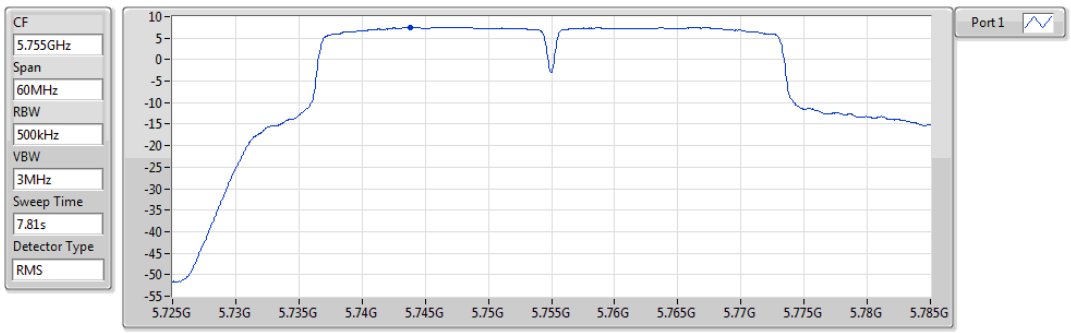



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -0.63 | -0.63 | -0.63 |

## 802.11n HT40_Nss1,(MCS0)_1TX PSD

### 5755MHz

24/07/2019

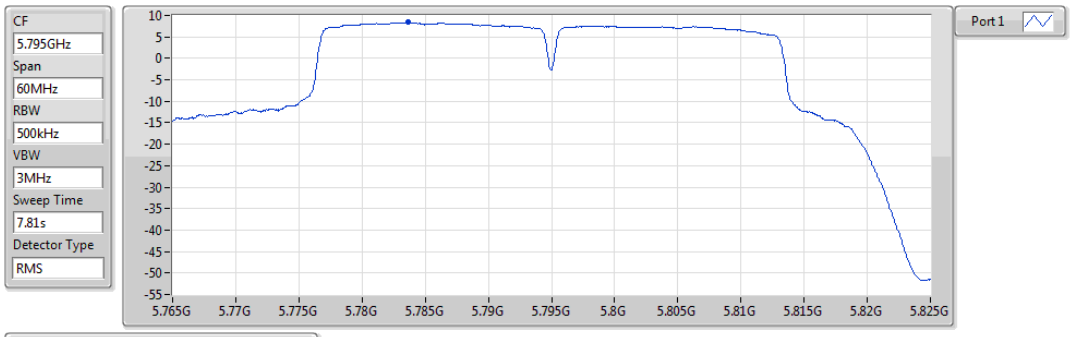



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.58 | 7.58 | 7.58 |

**802.11n HT40_Nss1,(MCS0)_1TX** **PSD**

**5795MHz**

24/07/2019




| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 8.35 | 8.35 | 8.35 |

## Summary

| Mode | PD (dBm/RBW) | EIRP PD (dBm/RBW) |
|---|---|---|
| 5.15-5.25GHz | - | - |
| 802.11a_Nss1,(6Mbps)_1TX | 10.90 | 15.90 |
| 802.11n HT20_Nss1,(MCS0)_1TX | 10.93 | 15.93 |
| 802.11n HT40_Nss1,(MCS0)_1TX | 7.45 | 12.45 |
| 5.725-5.85GHz | - | - |
| 802.11a_Nss1,(6Mbps)_1TX | 11.38 | 16.38 |
| 802.11n HT20_Nss1,(MCS0)_1TX | 11.43 | 16.43 |
| 802.11n HT40_Nss1,(MCS0)_1TX | 8.35 | 13.35 |

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

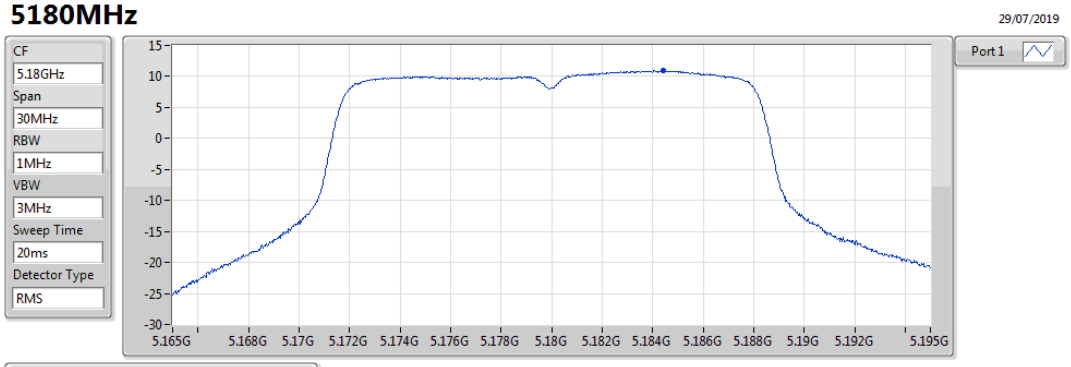
## Result

| Mode | Result | DG (dBi) | Port 1 (dBm/RBW) | PD (dBm/RBW) | PD Limit (dBm/RBW) | EIRP PD (dBm/RBW) | EIRP PD Limit (dBm/RBW) |
|---|---|---|---|---|---|---|---|
| 802.11a_Nss1,(6Mbps)_1TX | - | - | - | - | - | - | - |
| 5180MHz | Pass | 5.00 | 10.90 | 10.90 | 11.00 | 15.90 | 17.00 |
| 5200MHz | Pass | 5.00 | 10.28 | 10.28 | 11.00 | 15.28 | 17.00 |
| 5240MHz | Pass | 5.00 | 10.64 | 10.64 | 11.00 | 15.64 | 17.00 |
| 5745MHz | Pass | 5.00 | 10.82 | 10.82 | 30.00 | 15.82 | 36.00 |
| 5785MHz | Pass | 5.00 | 11.02 | 11.02 | 30.00 | 16.02 | 36.00 |
| 5805MHz | Pass | 5.00 | 11.38 | 11.38 | 30.00 | 16.38 | 36.00 |
| 802.11n HT20_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - |
| 5180MHz | Pass | 5.00 | 10.93 | 10.93 | 11.00 | 15.93 | 17.00 |
| 5200MHz | Pass | 5.00 | 10.46 | 10.46 | 11.00 | 15.46 | 17.00 |
| 5240MHz | Pass | 5.00 | 10.34 | 10.34 | 11.00 | 15.34 | 17.00 |
| 5745MHz | Pass | 5.00 | 10.90 | 10.90 | 30.00 | 15.90 | 36.00 |
| 5785MHz | Pass | 5.00 | 11.00 | 11.00 | 30.00 | 16.00 | 36.00 |
| 5805MHz | Pass | 5.00 | 11.43 | 11.43 | 30.00 | 16.43 | 36.00 |
| 802.11n HT40_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - |
| 5190MHz | Pass | 5.00 | 7.45 | 7.45 | 11.00 | 12.45 | 17.00 |
| 5230MHz | Pass | 5.00 | 7.20 | 7.20 | 11.00 | 12.20 | 17.00 |
| 5755MHz | Pass | 5.00 | 7.58 | 7.58 | 30.00 | 12.58 | 36.00 |
| 5795MHz | Pass | 5.00 | 8.35 | 8.35 | 30.00 | 13.35 | 36.00 |

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

## 802.11a_Nss1,(6Mbps)_1TX PSD

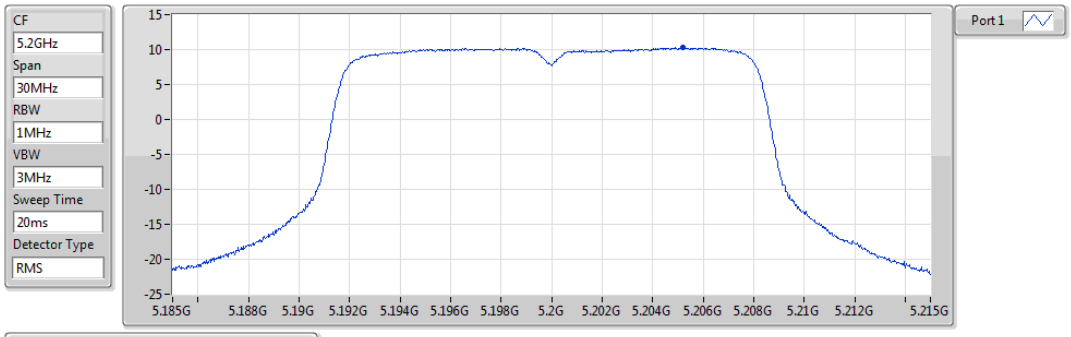
### 5180MHz




| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 10.90 | 10.90 | 10.90 |

## 802.11a_Nss1,(6Mbps)_1TX PSD

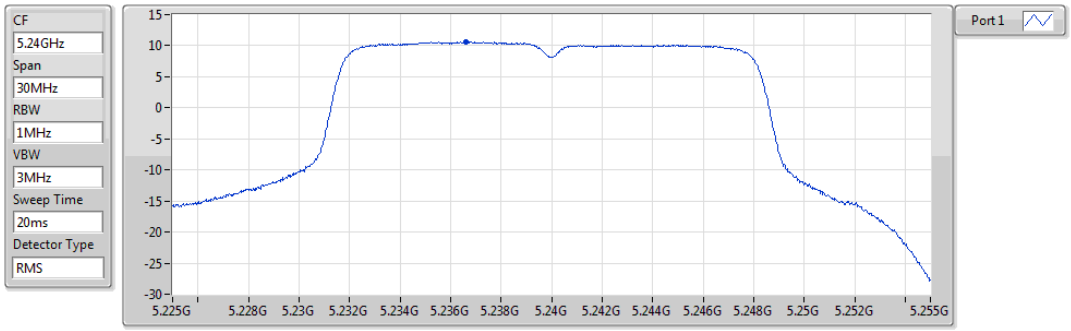
### 5200MHz




| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 10.28 | 10.28 | 10.28 |

## 802.11a_Nss1,(6Mbps)_1TX PSD

### 5240MHz

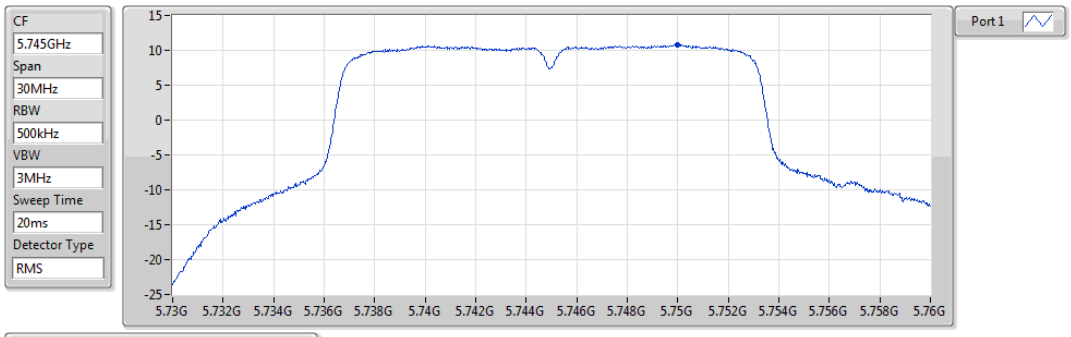



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 10.64 | 10.64 | 10.64 |

## 802.11a_Nss1,(6Mbps)_1TX PSD

### 5745MHz

26/07/2019

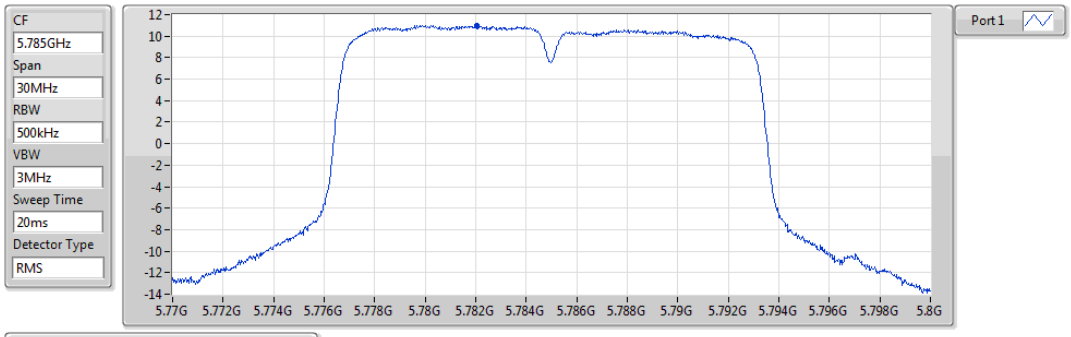



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 10.82 | 10.82 | 10.82 |

## 802.11a_Nss1,(6Mbps)_1TX PSD

### 5785MHz

26/07/2019

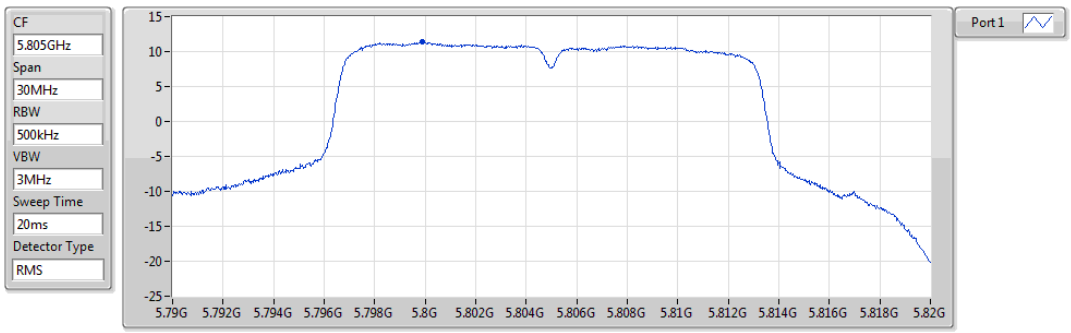



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 11.02 | 11.02 | 11.02 |

## 802.11a_Nss1,(6Mbps)_1TX PSD

### 5805MHz

26/07/2019

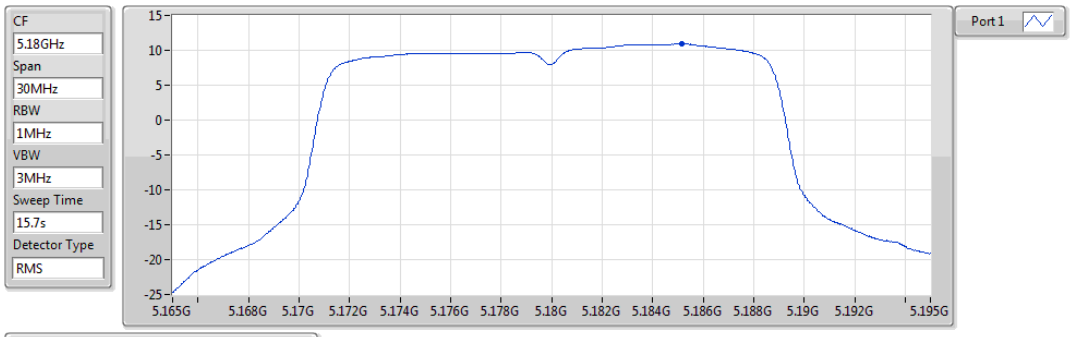



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 11.38 | 11.38 | 11.38 |

## 802.11n HT20_Nss1,(MCS0)_1TX PSD

### 5180MHz

29/07/2019

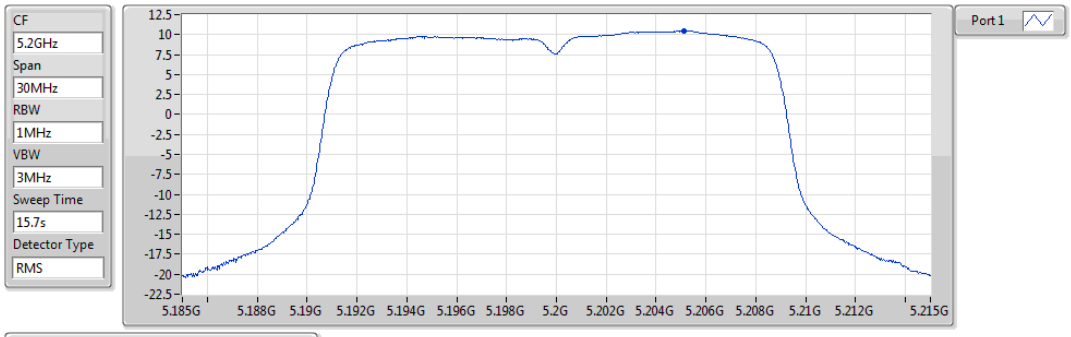



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 10.93 | 10.93 | 10.93 |

## 802.11n HT20_Nss1,(MCS0)_1TX PSD

### 5200MHz

29/07/2019

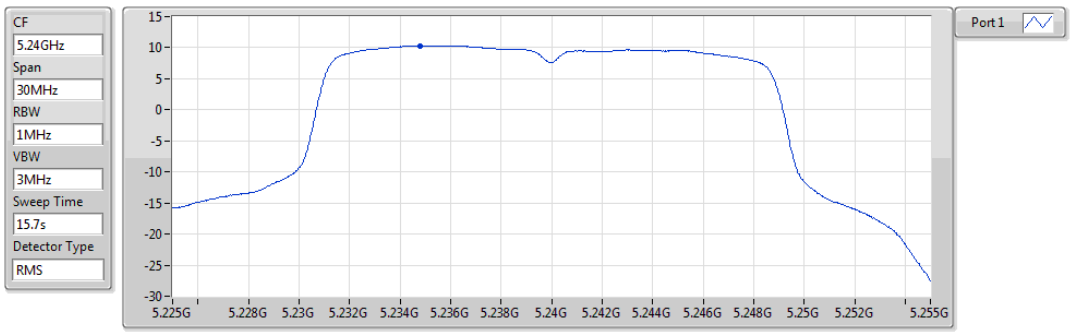



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 10.46 | 10.46 | 10.46 |

## 802.11n HT20_Nss1,(MCS0)_1TX PSD

### 5240MHz

29/07/2019

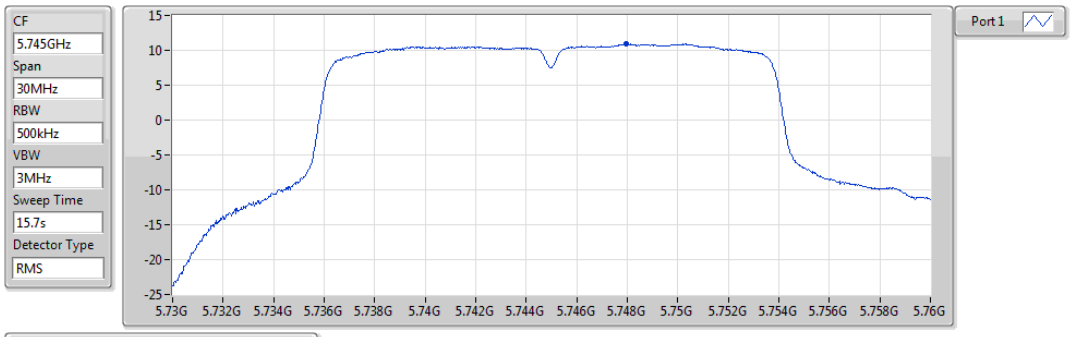



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 10.34 | 10.34 | 10.34 |

**802.11n HT20_Nss1,(MCS0)_1TX** **PSD**

**5745MHz**

24/07/2019

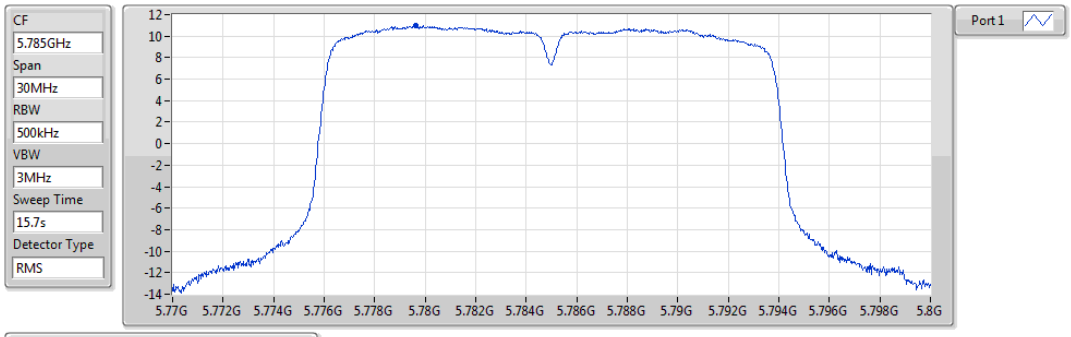



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 10.90 | 10.90 | 10.90 |

**802.11n HT20_Nss1,(MCS0)_1TX** **PSD**

**5785MHz**

24/07/2019

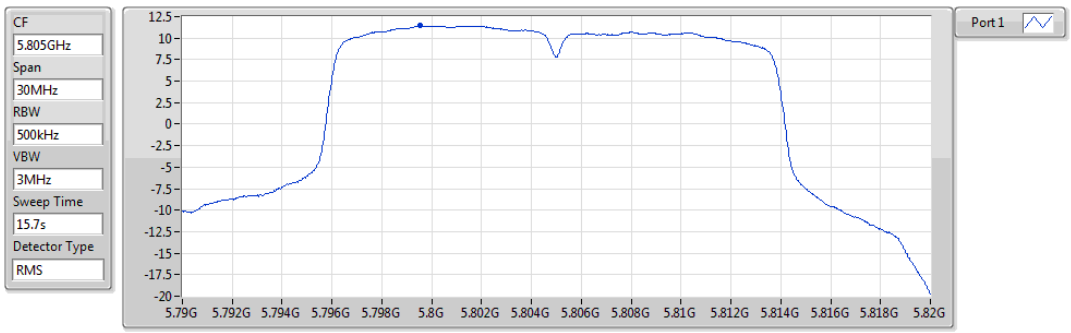



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 11.00 | 11.00 | 11.00 |

**802.11n HT20_Nss1,(MCS0)_1TX** **PSD**

**5805MHz**

24/07/2019

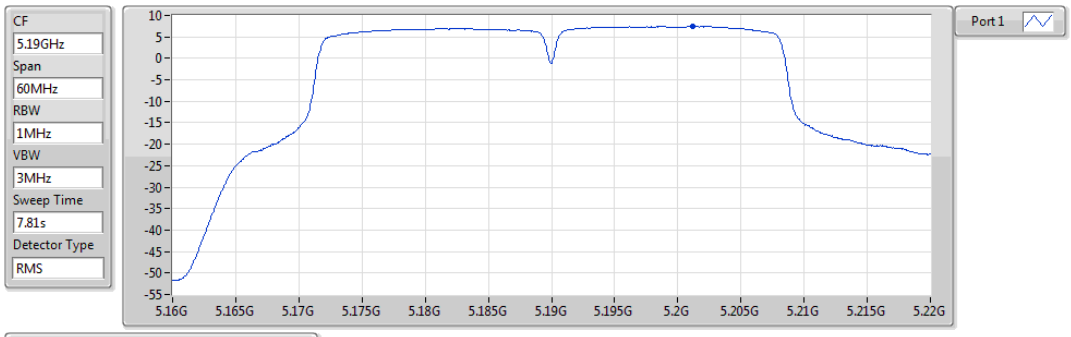



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 11.43 | 11.43 | 11.43 |

**802.11n HT40_Nss1,(MCS0)_1TX** **PSD**

**5190MHz**

29/07/2019

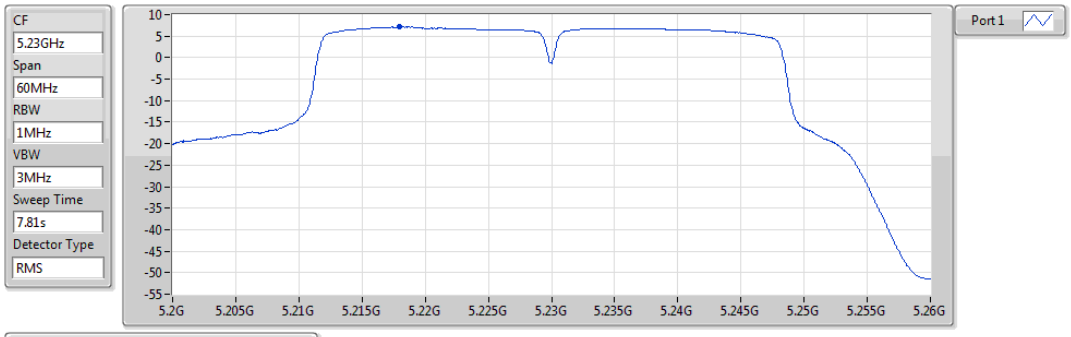



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.45 | 7.45 | 7.45 |

**802.11n HT40_Nss1,(MCS0)_1TX** **PSD**

**5230MHz**

29/07/2019

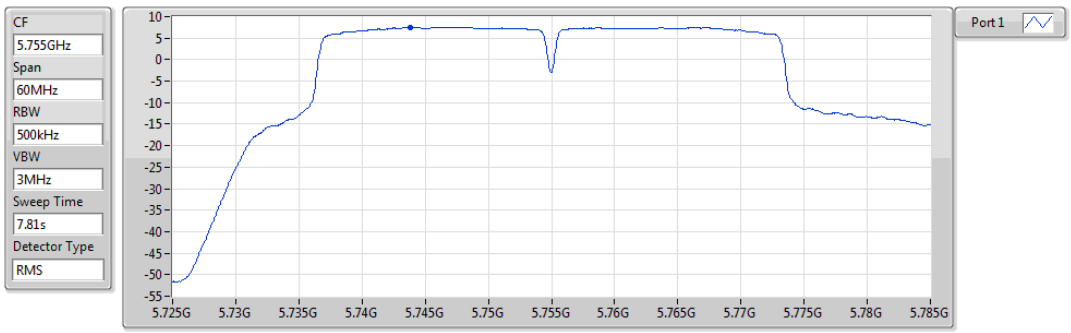



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.20 | 7.20 | 7.20 |

**802.11n HT40_Nss1,(MCS0)_1TX** **PSD**

**5755MHz**

24/07/2019

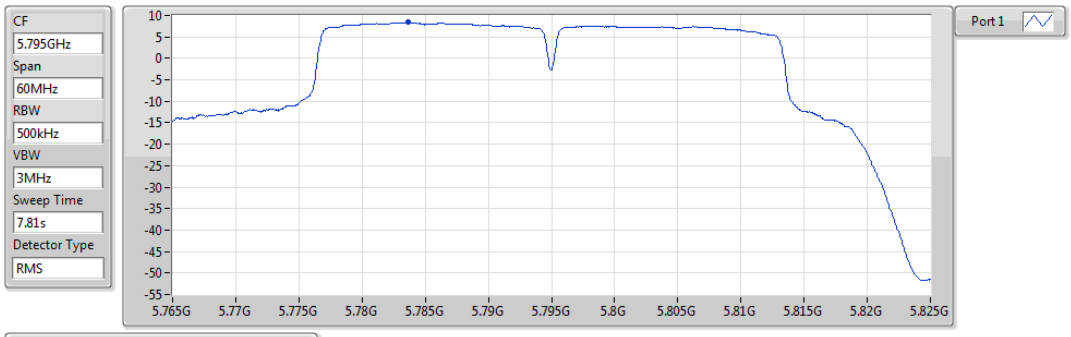



| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.58 | 7.58 | 7.58 |

**802.11n HT40_Nss1,(MCS0)_1TX** **PSD**

**5795MHz**

24/07/2019




| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 8.35 | 8.35 | 8.35 |

## Summary

| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.725-5.85GHz | - | - | - | - | - | - | - | - | - | - | - |
| 802.11n HT40_Nss1,(MCS0)_1TX | Pass | PK | 31.94M | 32.94 | 40.00 | -7.06 | 3 | Vertical | 0 | 1.00 | - |

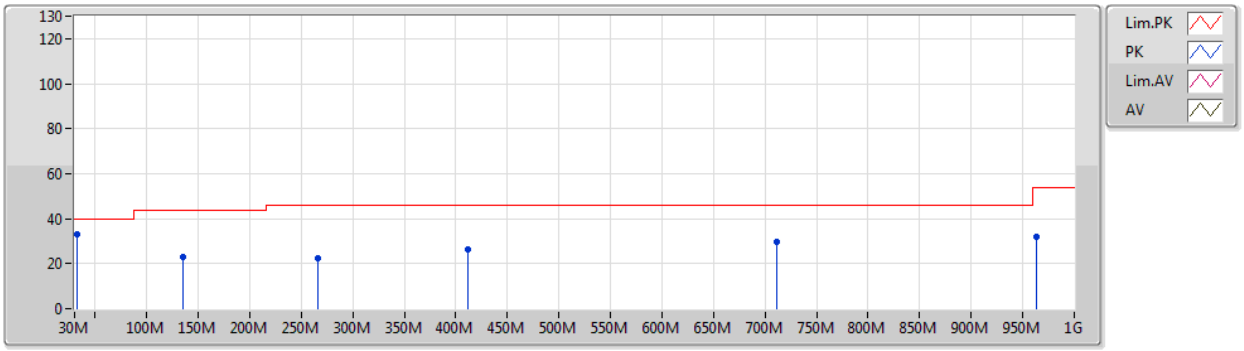
## Result

| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11n HT40_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - | - | - | - | - |
| 5795MHz | Pass | PK | 31.94M | 32.94 | 40.00 | -7.06 | 3 | Vertical | 0 | 1.00 | - |
| 5795MHz | Pass | PK | 134.76M | 23.19 | 43.50 | -20.31 | 3 | Vertical | 0 | 1.00 | - |
| 5795MHz | Pass | PK | 266.68M | 22.14 | 46.00 | -23.86 | 3 | Vertical | 0 | 1.00 | - |
| 5795MHz | Pass | PK | 412.18M | 26.27 | 46.00 | -19.73 | 3 | Vertical | 0 | 1.00 | - |
| 5795MHz | Pass | PK | 710.94M | 29.65 | 46.00 | -16.35 | 3 | Vertical | 0 | 1.00 | - |
| 5795MHz | Pass | PK | 963.14M | 32.15 | 54.00 | -21.85 | 3 | Vertical | 0 | 1.00 | - |
| 5795MHz | Pass | PK | 30M | 31.97 | 40.00 | -8.03 | 3 | Horizontal | 360 | 1.00 | - |
| 5795MHz | Pass | PK | 123.12M | 20.32 | 43.50 | -23.18 | 3 | Horizontal | 360 | 1.00 | - |
| 5795MHz | Pass | PK | 288.02M | 22.71 | 46.00 | -23.29 | 3 | Horizontal | 360 | 1.00 | - |
| 5795MHz | Pass | PK | 569.32M | 29.07 | 46.00 | -16.93 | 3 | Horizontal | 360 | 1.00 | - |
| 5795MHz | Pass | PK | 887.48M | 34.12 | 46.00 | -11.88 | 3 | Horizontal | 360 | 1.00 | - |
| 5795MHz | Pass | PK | 998.06M | 33.30 | 54.00 | -20.70 | 3 | Horizontal | 360 | 1.00 | - |

## 802.11n HT40_Nss1,(MCS0)_1TX

## 5795MHz_Switching Power Supply

24/07/2019

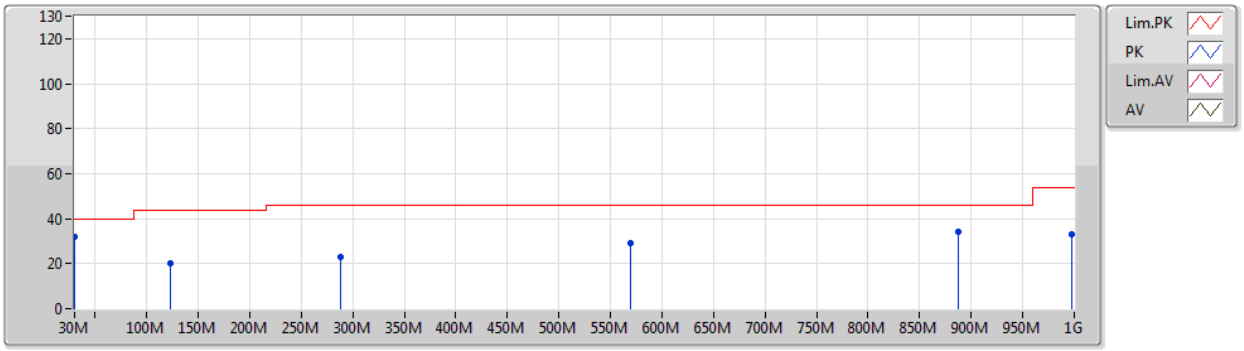



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 31.94M | 32.94 | 40.00 | -7.06 | 38.37 | 3 | Vertical | 0 | 1.00 | - | 21.90 | 0.36 | 27.69 |
| PK | 134.76M | 23.19 | 43.50 | -20.31 | 32.57 | 3 | Vertical | 0 | 1.00 | - | 16.57 | 1.74 | 27.69 |
| PK | 266.68M | 22.14 | 46.00 | -23.86 | 28.08 | 3 | Vertical | 0 | 1.00 | - | 18.45 | 2.79 | 27.18 |
| PK | 412.18M | 26.27 | 46.00 | -19.73 | 29.56 | 3 | Vertical | 0 | 1.00 | - | 21.49 | 3.20 | 27.98 |
| PK | 710.94M | 29.65 | 46.00 | -16.35 | 29.74 | 3 | Vertical | 0 | 1.00 | - | 24.22 | 4.06 | 28.37 |
| PK | 963.14M | 32.15 | 54.00 | -21.85 | 28.56 | 3 | Vertical | 0 | 1.00 | - | 26.16 | 4.91 | 27.48 |

## 802.11n HT40_Nss1,(MCS0)_1TX

## 5795MHz_Switching Power Supply

24/07/2019




| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 30M | 31.97 | 40.00 | -8.03 | 36.37 | 3 | Horizontal | 360 | 1.00 | - | 23.01 | 0.29 | 27.70 |
| PK | 123.12M | 20.32 | 43.50 | -23.18 | 29.23 | 3 | Horizontal | 360 | 1.00 | - | 17.14 | 1.67 | 27.72 |
| PK | 288.02M | 22.71 | 46.00 | -23.29 | 28.85 | 3 | Horizontal | 360 | 1.00 | - | 18.09 | 2.94 | 27.17 |
| PK | 569.32M | 29.07 | 46.00 | -16.93 | 30.38 | 3 | Horizontal | 360 | 1.00 | - | 23.66 | 3.62 | 28.59 |
| PK | 887.48M | 34.12 | 46.00 | -11.88 | 32.03 | 3 | Horizontal | 360 | 1.00 | - | 25.56 | 4.31 | 27.78 |
| PK | 998.06M | 33.30 | 54.00 | -20.70 | 29.10 | 3 | Horizontal | 360 | 1.00 | - | 26.30 | 5.03 | 27.13 |

## Summary

| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.15-5.25GHz | - | - | - | - | - | - | - | - | - | - | - |
| 802.11a_Nss1,(6Mbps)_1TX | Pass | AV | 5.357G | 43.14 | 54.00 | -10.86 | 3 | Vertical | 217 | 1.49 | - |
| 802.11n HT20_Nss1,(MCS0)_1TX | Pass | AV | 5.381G | 43.17 | 54.00 | -10.83 | 3 | Vertical | 302 | 2.71 | - |
| 802.11n HT40_Nss1,(MCS0)_1TX | Pass | AV | 5.1496G | 43.61 | 54.00 | -10.39 | 3 | Vertical | 299 | 2.86 | - |
| 5.725-5.85GHz | - | - | - | - | - | - | - | - | - | - | - |
| 802.11a_Nss1,(6Mbps)_1TX | Pass | PK | 5.637G | 56.98 | 68.20 | -11.22 | 3 | Horizontal | 217 | 1.62 | - |
| 802.11n HT20_Nss1,(MCS0)_1TX | Pass | PK | 5.9254G | 57.02 | 68.20 | -11.18 | 3 | Horizontal | 339 | 2.66 | - |
| 802.11n HT40_Nss1,(MCS0)_1TX | Pass | PK | 5.9338G | 57.28 | 68.20 | -10.92 | 3 | Horizontal | 256 | 1.56 | - |

## Result

| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a_Nss1,(6Mbps)_1TX | - | - | - | - | - | - | - | - | - | - | - |
| 5180MHz | Pass | AV | 5.15G | 42.83 | 54.00 | -11.17 | 3 | Vertical | 218 | 1.56 | - |
| 5180MHz | Pass | AV | 5.1864G | 105.89 | Inf | -Inf | 3 | Vertical | 218 | 1.56 | - |
| 5180MHz | Pass | PK | 5.1344G | 55.49 | 74.00 | -18.51 | 3 | Vertical | 218 | 1.56 | - |
| 5180MHz | Pass | PK | 5.1828G | 115.48 | Inf | -Inf | 3 | Vertical | 218 | 1.56 | - |
| 5180MHz | Pass | AV | 5.1332G | 42.83 | 54.00 | -11.17 | 3 | Horizontal | 336 | 1.63 | - |
| 5180MHz | Pass | AV | 5.1848G | 94.35 | Inf | -Inf | 3 | Horizontal | 336 | 1.63 | - |
| 5180MHz | Pass | PK | 5.1348G | 55.53 | 74.00 | -18.47 | 3 | Horizontal | 336 | 1.63 | - |
| 5180MHz | Pass | PK | 5.1828G | 104.60 | Inf | -Inf | 3 | Horizontal | 336 | 1.63 | - |
| 5180MHz | Pass | PK | 10.34872G | 54.01 | 68.20 | -14.19 | 3 | Vertical | 219 | 1.49 | - |
| 5180MHz | Pass | PK | 10.36486G | 53.36 | 68.20 | -14.84 | 3 | Horizontal | 151 | 1.24 | - |
| 5200MHz | Pass | AV | 5.1148G | 42.77 | 54.00 | -11.23 | 3 | Vertical | 218 | 1.51 | - |
| 5200MHz | Pass | AV | 5.2024G | 105.48 | Inf | -Inf | 3 | Vertical | 218 | 1.51 | - |
| 5200MHz | Pass | PK | 5.1308G | 55.23 | 74.00 | -18.77 | 3 | Vertical | 218 | 1.51 | - |
| 5200MHz | Pass | PK | 5.1948G | 115.93 | Inf | -Inf | 3 | Vertical | 218 | 1.51 | - |
| 5200MHz | Pass | AV | 5.148G | 42.79 | 54.00 | -11.21 | 3 | Horizontal | 336 | 1.57 | - |
| 5200MHz | Pass | AV | 5.1948G | 93.69 | Inf | -Inf | 3 | Horizontal | 336 | 1.57 | - |
| 5200MHz | Pass | PK | 5.146G | 55.69 | 74.00 | -18.31 | 3 | Horizontal | 336 | 1.57 | - |
| 5200MHz | Pass | PK | 5.2032G | 103.96 | Inf | -Inf | 3 | Horizontal | 336 | 1.57 | - |
| 5200MHz | Pass | PK | 10.38716G | 53.68 | 68.20 | -14.52 | 3 | Vertical | 356 | 1.21 | - |
| 5200MHz | Pass | PK | 10.38932G | 53.63 | 68.20 | -14.57 | 3 | Horizontal | 208 | 1.47 | - |
| 5240MHz | Pass | AV | 5.1434G | 42.81 | 54.00 | -11.19 | 3 | Vertical | 217 | 1.49 | - |
| 5240MHz | Pass | AV | 5.2364G | 104.87 | Inf | -Inf | 3 | Vertical | 217 | 1.49 | - |
| 5240MHz | Pass | AV | 5.357G | 43.14 | 54.00 | -10.86 | 3 | Vertical | 217 | 1.49 | - |
| 5240MHz | Pass | PK | 5.1392G | 55.73 | 74.00 | -18.27 | 3 | Vertical | 217 | 1.49 | - |
| 5240MHz | Pass | PK | 5.2346G | 115.25 | Inf | -Inf | 3 | Vertical | 217 | 1.49 | - |
| 5240MHz | Pass | PK | 5.3816G | 55.67 | 74.00 | -18.33 | 3 | Vertical | 217 | 1.49 | - |
| 5240MHz | Pass | AV | 5.15G | 42.82 | 54.00 | -11.18 | 3 | Horizontal | 335 | 1.00 | - |
| 5240MHz | Pass | AV | 5.237G | 93.51 | Inf | -Inf | 3 | Horizontal | 335 | 1.00 | - |
| 5240MHz | Pass | AV | 5.357G | 43.14 | 54.00 | -10.86 | 3 | Horizontal | 335 | 1.00 | - |
| 5240MHz | Pass | PK | 5.135G | 55.75 | 74.00 | -18.25 | 3 | Horizontal | 335 | 1.00 | - |
| 5240MHz | Pass | PK | 5.237G | 103.63 | Inf | -Inf | 3 | Horizontal | 335 | 1.00 | - |
| 5240MHz | Pass | PK | 5.3696G | 55.78 | 74.00 | -18.22 | 3 | Horizontal | 335 | 1.00 | - |
| 5240MHz | Pass | PK | 10.47802G | 52.56 | 68.20 | -15.64 | 3 | Vertical | 341 | 1.49 | - |
| 5240MHz | Pass | PK | 10.49326G | 52.93 | 68.20 | -15.27 | 3 | Horizontal | 262 | 1.38 | - |
| 5745MHz | Pass | AV | 5.751G | 103.91 | Inf | -Inf | 3 | Vertical | 7 | 1.49 | - |
| 5745MHz | Pass | PK | 5.6094G | 56.11 | 68.20 | -12.09 | 3 | Vertical | 7 | 1.49 | - |
| 5745MHz | Pass | PK | 5.751G | 113.97 | Inf | -Inf | 3 | Vertical | 7 | 1.49 | - |
| 5745MHz | Pass | PK | 5.9334G | 56.08 | 68.20 | -12.12 | 3 | Vertical | 7 | 1.49 | - |
| 5745MHz | Pass | AV | 5.7498G | 93.76 | Inf | -Inf | 3 | Horizontal | 217 | 1.49 | - |
| 5745MHz | Pass | PK | 5.6502G | 55.82 | 68.35 | -12.53 | 3 | Horizontal | 217 | 1.49 | - |
| 5745MHz | Pass | PK | 5.751G | 103.37 | Inf | -Inf | 3 | Horizontal | 217 | 1.49 | - |
| 5745MHz | Pass | PK | 5.9682G | 56.28 | 68.20 | -11.92 | 3 | Horizontal | 217 | 1.49 | - |
| 5745MHz | Pass | AV | 11.49147G | 39.98 | 54.00 | -14.02 | 3 | Vertical | 335 | 1.53 | - |
| 5745MHz | Pass | PK | 11.48957G | 54.16 | 74.00 | -19.84 | 3 | Vertical | 335 | 1.53 | - |
| 5745MHz | Pass | AV | 11.48903G | 39.96 | 54.00 | -14.04 | 3 | Horizontal | 67 | 1.06 | - |
| 5745MHz | Pass | PK | 11.48902G | 53.46 | 74.00 | -20.54 | 3 | Horizontal | 67 | 1.06 | - |
| 5785MHz | Pass | AV | 5.7874G | 104.48 | Inf | -Inf | 3 | Vertical | 4 | 1.54 | - |

| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5785MHz | Pass | PK | 5.587G | 56.05 | 68.20 | -12.15 | 3 | Vertical | 4 | 1.54 | - |
| 5785MHz | Pass | PK | 5.779G | 114.62 | Inf | -Inf | 3 | Vertical | 4 | 1.54 | - |
| 5785MHz | Pass | PK | 5.9266G | 56.38 | 68.20 | -11.82 | 3 | Vertical | 4 | 1.54 | - |
| 5785MHz | Pass | AV | 5.7874G | 93.38 | Inf | -Inf | 3 | Horizontal | 225 | 1.37 | - |
| 5785MHz | Pass | PK | 5.5234G | 56.05 | 68.20 | -12.15 | 3 | Horizontal | 225 | 1.37 | - |
| 5785MHz | Pass | PK | 5.7886G | 103.09 | Inf | -Inf | 3 | Horizontal | 225 | 1.37 | - |
| 5785MHz | Pass | PK | 5.9362G | 56.72 | 68.20 | -11.48 | 3 | Horizontal | 225 | 1.37 | - |
| 5785MHz | Pass | AV | 11.56806G | 39.73 | 54.00 | -14.27 | 3 | Vertical | 155 | 2.19 | - |
| 5785MHz | Pass | PK | 11.56871G | 52.87 | 74.00 | -21.13 | 3 | Vertical | 155 | 2.19 | - |
| 5785MHz | Pass | AV | 11.57077G | 39.75 | 54.00 | -14.25 | 3 | Horizontal | 227 | 2.42 | - |
| 5785MHz | Pass | PK | 11.56909G | 53.96 | 74.00 | -20.04 | 3 | Horizontal | 227 | 2.42 | - |
| 5805MHz | Pass | AV | 5.8002G | 105.32 | Inf | -Inf | 3 | Vertical | 5 | 1.37 | - |
| 5805MHz | Pass | PK | 5.559G | 56.20 | 68.20 | -12.00 | 3 | Vertical | 5 | 1.37 | - |
| 5805MHz | Pass | PK | 5.799G | 115.50 | Inf | -Inf | 3 | Vertical | 5 | 1.37 | - |
| 5805MHz | Pass | PK | 5.9694G | 56.23 | 68.20 | -11.97 | 3 | Vertical | 5 | 1.37 | - |
| 5805MHz | Pass | AV | 5.8086G | 94.95 | Inf | -Inf | 3 | Horizontal | 217 | 1.62 | - |
| 5805MHz | Pass | PK | 5.637G | 56.98 | 68.20 | -11.22 | 3 | Horizontal | 217 | 1.62 | - |
| 5805MHz | Pass | PK | 5.8002G | 105.20 | Inf | -Inf | 3 | Horizontal | 217 | 1.62 | - |
| 5805MHz | Pass | PK | 5.9514G | 56.45 | 68.20 | -11.75 | 3 | Horizontal | 217 | 1.62 | - |
| 5805MHz | Pass | AV | 11.60969G | 39.39 | 54.00 | -14.61 | 3 | Vertical | 250 | 2.15 | - |
| 5805MHz | Pass | PK | 11.61162G | 53.24 | 74.00 | -20.76 | 3 | Vertical | 250 | 2.15 | - |
| 5805MHz | Pass | AV | 11.60858G | 39.51 | 54.00 | -14.49 | 3 | Horizontal | 133 | 1.66 | - |
| 5805MHz | Pass | PK | 11.60894G | 53.29 | 74.00 | -20.71 | 3 | Horizontal | 133 | 1.66 | - |
| 802.11n HT20_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - | - | - | - | - |
| 5180MHz | Pass | AV | 5.148G | 42.86 | 54.00 | -11.14 | 3 | Vertical | 18 | 1.94 | - |
| 5180MHz | Pass | AV | 5.1856G | 98.06 | Inf | -Inf | 3 | Vertical | 18 | 1.94 | - |
| 5180MHz | Pass | PK | 5.0988G | 55.35 | 74.00 | -18.65 | 3 | Vertical | 18 | 1.94 | - |
| 5180MHz | Pass | PK | 5.184G | 108.69 | Inf | -Inf | 3 | Vertical | 18 | 1.94 | - |
| 5180MHz | Pass | AV | 5.0956G | 42.79 | 54.00 | -11.21 | 3 | Horizontal | 332 | 1.62 | - |
| 5180MHz | Pass | AV | 5.1744G | 79.24 | Inf | -Inf | 3 | Horizontal | 332 | 1.62 | - |
| 5180MHz | Pass | PK | 5.1272G | 56.23 | 74.00 | -17.77 | 3 | Horizontal | 332 | 1.62 | - |
| 5180MHz | Pass | PK | 5.1752G | 88.26 | Inf | -Inf | 3 | Horizontal | 332 | 1.62 | - |
| 5180MHz | Pass | PK | 10.34722G | 51.85 | 68.20 | -16.35 | 3 | Vertical | 301 | 1.48 | - |
| 5180MHz | Pass | PK | 10.35832G | 52.15 | 68.20 | -16.05 | 3 | Horizontal | 0 | 1.49 | - |
| 5200MHz | Pass | AV | 5.136G | 42.94 | 54.00 | -11.06 | 3 | Vertical | 302 | 1.74 | - |
| 5200MHz | Pass | AV | 5.1968G | 105.27 | Inf | -Inf | 3 | Vertical | 302 | 1.74 | - |
| 5200MHz | Pass | PK | 5.1368G | 55.67 | 74.00 | -18.33 | 3 | Vertical | 302 | 1.74 | - |
| 5200MHz | Pass | PK | 5.198G | 114.78 | Inf | -Inf | 3 | Vertical | 302 | 1.74 | - |
| 5200MHz | Pass | AV | 5.1448G | 42.88 | 54.00 | -11.12 | 3 | Horizontal | 248 | 1.61 | - |
| 5200MHz | Pass | AV | 5.1972G | 91.18 | Inf | -Inf | 3 | Horizontal | 248 | 1.61 | - |
| 5200MHz | Pass | PK | 5.12G | 54.96 | 74.00 | -19.04 | 3 | Horizontal | 248 | 1.61 | - |
| 5200MHz | Pass | PK | 5.1968G | 100.58 | Inf | -Inf | 3 | Horizontal | 248 | 1.61 | - |
| 5200MHz | Pass | PK | 10.39358G | 52.94 | 68.20 | -15.26 | 3 | Vertical | 55 | 1.50 | - |
| 5200MHz | Pass | PK | 10.40324G | 52.42 | 68.20 | -15.78 | 3 | Horizontal | 332 | 1.53 | - |
| 5240MHz | Pass | AV | 5.1482G | 42.87 | 54.00 | -11.13 | 3 | Vertical | 302 | 2.71 | - |
| 5240MHz | Pass | AV | 5.2454G | 105.79 | Inf | -Inf | 3 | Vertical | 302 | 2.71 | - |
| 5240MHz | Pass | AV | 5.381G | 43.17 | 54.00 | -10.83 | 3 | Vertical | 302 | 2.71 | - |
| 5240MHz | Pass | PK | 5.0972G | 55.13 | 74.00 | -18.87 | 3 | Vertical | 302 | 2.71 | - |
| 5240MHz | Pass | PK | 5.2352G | 116.37 | Inf | -Inf | 3 | Vertical | 302 | 2.71 | - |

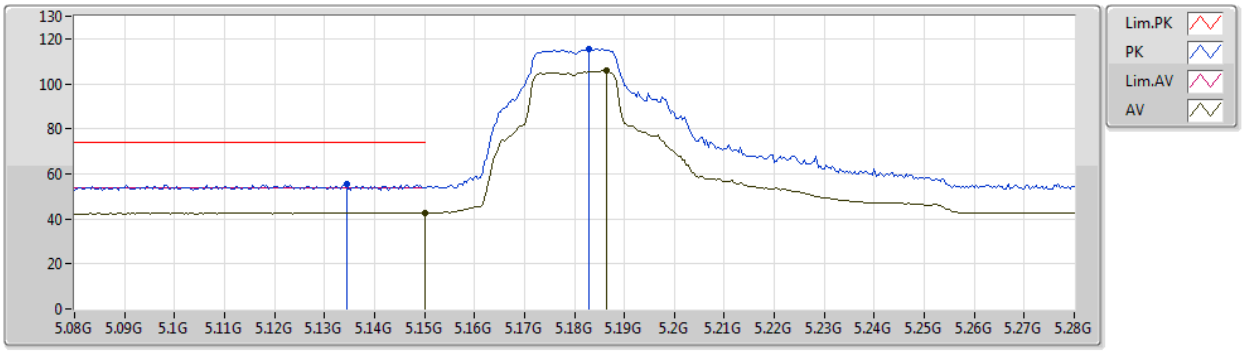
| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5240MHz | Pass | PK | 5.3876G | 55.79 | 74.00 | -18.21 | 3 | Vertical | 302 | 2.71 | - |
| 5240MHz | Pass | AV | 5.1338G | 42.76 | 54.00 | -11.24 | 3 | Horizontal | 239 | 2.86 | - |
| 5240MHz | Pass | AV | 5.2346G | 92.28 | Inf | -Inf | 3 | Horizontal | 239 | 2.86 | - |
| 5240MHz | Pass | AV | 5.3888G | 43.11 | 54.00 | -10.89 | 3 | Horizontal | 239 | 2.86 | - |
| 5240MHz | Pass | PK | 5.0948G | 55.16 | 74.00 | -18.84 | 3 | Horizontal | 239 | 2.86 | - |
| 5240MHz | Pass | PK | 5.2352G | 101.45 | Inf | -Inf | 3 | Horizontal | 239 | 2.86 | - |
| 5240MHz | Pass | PK | 5.3828G | 55.78 | 74.00 | -18.22 | 3 | Horizontal | 239 | 2.86 | - |
| 5240MHz | Pass | PK | 10.4653G | 52.75 | 68.20 | -15.45 | 3 | Vertical | 280 | 1.50 | - |
| 5240MHz | Pass | PK | 10.49374G | 53.32 | 68.20 | -14.88 | 3 | Horizontal | 236 | 1.74 | - |
| 5745MHz | Pass | AV | 5.7486G | 104.66 | Inf | -Inf | 3 | Vertical | 328 | 2.28 | - |
| 5745MHz | Pass | PK | 5.5074G | 55.76 | 68.20 | -12.44 | 3 | Vertical | 328 | 2.28 | - |
| 5745MHz | Pass | PK | 5.7474G | 113.77 | Inf | -Inf | 3 | Vertical | 328 | 2.28 | - |
| 5745MHz | Pass | PK | 5.9682G | 56.52 | 68.20 | -11.68 | 3 | Vertical | 328 | 2.28 | - |
| 5745MHz | Pass | AV | 5.751G | 92.97 | Inf | -Inf | 3 | Horizontal | 344 | 2.89 | - |
| 5745MHz | Pass | PK | 5.6286G | 56.10 | 68.20 | -12.10 | 3 | Horizontal | 344 | 2.89 | - |
| 5745MHz | Pass | PK | 5.7498G | 102.27 | Inf | -Inf | 3 | Horizontal | 344 | 2.89 | - |
| 5745MHz | Pass | PK | 5.949G | 56.28 | 68.20 | -11.92 | 3 | Horizontal | 344 | 2.89 | - |
| 5745MHz | Pass | AV | 11.50014G | 39.88 | 54.00 | -14.12 | 3 | Vertical | 306 | 2.63 | - |
| 5745MHz | Pass | PK | 11.49624G | 52.61 | 74.00 | -21.39 | 3 | Vertical | 306 | 2.63 | - |
| 5745MHz | Pass | AV | 11.50164G | 39.83 | 54.00 | -14.17 | 3 | Horizontal | 203 | 1.50 | - |
| 5745MHz | Pass | PK | 11.48616G | 52.71 | 74.00 | -21.29 | 3 | Horizontal | 203 | 1.50 | - |
| 5785MHz | Pass | AV | 5.7814G | 105.73 | Inf | -Inf | 3 | Vertical | 300 | 2.40 | - |
| 5785MHz | Pass | PK | 5.5966G | 56.15 | 68.20 | -12.05 | 3 | Vertical | 300 | 2.40 | - |
| 5785MHz | Pass | PK | 5.7826G | 114.82 | Inf | -Inf | 3 | Vertical | 300 | 2.40 | - |
| 5785MHz | Pass | PK | 5.9338G | 56.64 | 68.20 | -11.56 | 3 | Vertical | 300 | 2.40 | - |
| 5785MHz | Pass | AV | 5.7898G | 92.06 | Inf | -Inf | 3 | Horizontal | 339 | 2.66 | - |
| 5785MHz | Pass | PK | 5.5606G | 55.96 | 68.20 | -12.24 | 3 | Horizontal | 339 | 2.66 | - |
| 5785MHz | Pass | PK | 5.791G | 101.22 | Inf | -Inf | 3 | Horizontal | 339 | 2.66 | - |
| 5785MHz | Pass | PK | 5.9254G | 57.02 | 68.20 | -11.18 | 3 | Horizontal | 339 | 2.66 | - |
| 5785MHz | Pass | AV | 11.5823G | 39.92 | 54.00 | -14.08 | 3 | Vertical | 56 | 1.50 | - |
| 5785MHz | Pass | PK | 11.57162G | 52.80 | 74.00 | -21.20 | 3 | Vertical | 56 | 1.50 | - |
| 5785MHz | Pass | AV | 11.57924G | 40.00 | 54.00 | -14.00 | 3 | Horizontal | 82 | 2.91 | - |
| 5785MHz | Pass | PK | 11.56376G | 52.70 | 74.00 | -21.30 | 3 | Horizontal | 82 | 2.91 | - |
| 5805MHz | Pass | AV | 5.8026G | 106.46 | Inf | -Inf | 3 | Vertical | 300 | 2.23 | - |
| 5805MHz | Pass | PK | 5.6226G | 55.52 | 68.20 | -12.68 | 3 | Vertical | 300 | 2.23 | - |
| 5805MHz | Pass | PK | 5.8014G | 116.02 | Inf | -Inf | 3 | Vertical | 300 | 2.23 | - |
| 5805MHz | Pass | PK | 5.985G | 56.67 | 68.20 | -11.53 | 3 | Vertical | 300 | 2.23 | - |
| 5805MHz | Pass | AV | 5.8026G | 92.32 | Inf | -Inf | 3 | Horizontal | 187 | 1.50 | - |
| 5805MHz | Pass | PK | 5.5794G | 56.07 | 68.20 | -12.13 | 3 | Horizontal | 187 | 1.50 | - |
| 5805MHz | Pass | PK | 5.8026G | 102.04 | Inf | -Inf | 3 | Horizontal | 187 | 1.50 | - |
| 5805MHz | Pass | PK | 5.973G | 56.44 | 68.20 | -11.76 | 3 | Horizontal | 187 | 1.50 | - |
| 5805MHz | Pass | AV | 11.60588G | 39.65 | 54.00 | -14.35 | 3 | Vertical | 272 | 1.50 | - |
| 5805MHz | Pass | PK | 11.61438G | 53.27 | 74.00 | -20.73 | 3 | Vertical | 272 | 1.50 | - |
| 5805MHz | Pass | AV | 11.60606G | 39.92 | 54.00 | -14.08 | 3 | Horizontal | 175 | 2.74 | - |
| 5805MHz | Pass | PK | 11.6113G | 52.75 | 74.00 | -21.25 | 3 | Horizontal | 175 | 2.74 | - |
| 802.11n HT40_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - | - | - | - | - |
| 5190MHz | Pass | AV | 5.1496G | 43.61 | 54.00 | -10.39 | 3 | Vertical | 299 | 2.86 | - |
| 5190MHz | Pass | AV | 5.1856G | 100.48 | Inf | -Inf | 3 | Vertical | 299 | 2.86 | - |
| 5190MHz | Pass | PK | 5.1496G | 56.38 | 74.00 | -17.62 | 3 | Vertical | 299 | 2.86 | - |

| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5190MHz | Pass | PK | 5.2G | 112.55 | Inf | -Inf | 3 | Vertical | 299 | 2.86 | - |
| 5190MHz | Pass | AV | 5.1328G | 42.58 | 54.00 | -11.42 | 3 | Horizontal | 185 | 1.85 | - |
| 5190MHz | Pass | AV | 5.2016G | 88.89 | Inf | -Inf | 3 | Horizontal | 185 | 1.85 | - |
| 5190MHz | Pass | PK | 5.1056G | 55.09 | 74.00 | -18.91 | 3 | Horizontal | 185 | 1.85 | - |
| 5190MHz | Pass | PK | 5.2016G | 100.61 | Inf | -Inf | 3 | Horizontal | 185 | 1.85 | - |
| 5190MHz | Pass | PK | 10.37896G | 52.77 | 68.20 | -15.43 | 3 | Vertical | 242 | 1.26 | - |
| 5190MHz | Pass | PK | 10.3926G | 52.72 | 68.20 | -15.48 | 3 | Horizontal | 50 | 2.19 | - |
| 5230MHz | Pass | AV | 5.1492G | 42.43 | 54.00 | -11.57 | 3 | Vertical | 301 | 2.59 | - |
| 5230MHz | Pass | AV | 5.2216G | 101.59 | Inf | -Inf | 3 | Vertical | 301 | 2.59 | - |
| 5230MHz | Pass | PK | 5.1344G | 55.00 | 74.00 | -19.00 | 3 | Vertical | 301 | 2.59 | - |
| 5230MHz | Pass | PK | 5.2224G | 112.71 | Inf | -Inf | 3 | Vertical | 301 | 2.59 | - |
| 5230MHz | Pass | AV | 5.1396G | 42.53 | 54.00 | -11.47 | 3 | Horizontal | 253 | 1.65 | - |
| 5230MHz | Pass | AV | 5.2232G | 91.15 | Inf | -Inf | 3 | Horizontal | 253 | 1.65 | - |
| 5230MHz | Pass | PK | 5.1428G | 54.95 | 74.00 | -19.05 | 3 | Horizontal | 253 | 1.65 | - |
| 5230MHz | Pass | PK | 5.222G | 101.90 | Inf | -Inf | 3 | Horizontal | 253 | 1.65 | - |
| 5230MHz | Pass | PK | 10.45202G | 53.41 | 68.20 | -14.79 | 3 | Vertical | 152 | 1.80 | - |
| 5230MHz | Pass | PK | 10.472G | 52.98 | 68.20 | -15.22 | 3 | Horizontal | 85 | 1.48 | - |
| 5755MHz | Pass | AV | 5.761G | 99.22 | Inf | -Inf | 3 | Vertical | 187 | 1.97 | - |
| 5755MHz | Pass | PK | 5.599G | 56.24 | 68.20 | -11.96 | 3 | Vertical | 187 | 1.97 | - |
| 5755MHz | Pass | PK | 5.7622G | 111.10 | Inf | -Inf | 3 | Vertical | 187 | 1.97 | - |
| 5755MHz | Pass | PK | 5.9578G | 56.13 | 68.20 | -12.07 | 3 | Vertical | 187 | 1.97 | - |
| 5755MHz | Pass | AV | 5.761G | 91.60 | Inf | -Inf | 3 | Horizontal | 256 | 1.56 | - |
| 5755MHz | Pass | PK | 5.5738G | 55.73 | 68.20 | -12.47 | 3 | Horizontal | 256 | 1.56 | - |
| 5755MHz | Pass | PK | 5.7586G | 101.82 | Inf | -Inf | 3 | Horizontal | 256 | 1.56 | - |
| 5755MHz | Pass | PK | 5.9338G | 57.28 | 68.20 | -10.92 | 3 | Horizontal | 256 | 1.56 | - |
| 5755MHz | Pass | AV | 11.49662G | 39.44 | 54.00 | -14.56 | 3 | Vertical | 57 | 1.50 | - |
| 5755MHz | Pass | PK | 11.49812G | 54.02 | 74.00 | -19.98 | 3 | Vertical | 57 | 1.50 | - |
| 5755MHz | Pass | AV | 11.51936G | 39.40 | 54.00 | -14.60 | 3 | Horizontal | 54 | 1.37 | - |
| 5755MHz | Pass | PK | 11.49632G | 53.22 | 74.00 | -20.78 | 3 | Horizontal | 54 | 1.37 | - |
| 5795MHz | Pass | AV | 5.783G | 99.78 | Inf | -Inf | 3 | Vertical | 187 | 2.01 | - |
| 5795MHz | Pass | PK | 5.6078G | 55.67 | 68.20 | -12.53 | 3 | Vertical | 187 | 2.01 | - |
| 5795MHz | Pass | PK | 5.783G | 111.15 | Inf | -Inf | 3 | Vertical | 187 | 2.01 | - |
| 5795MHz | Pass | PK | 5.9426G | 55.93 | 68.20 | -12.27 | 3 | Vertical | 187 | 2.01 | - |
| 5795MHz | Pass | AV | 5.783G | 92.35 | Inf | -Inf | 3 | Horizontal | 255 | 1.54 | - |
| 5795MHz | Pass | PK | 5.633G | 55.59 | 68.20 | -12.61 | 3 | Horizontal | 255 | 1.54 | - |
| 5795MHz | Pass | PK | 5.783G | 103.32 | Inf | -Inf | 3 | Horizontal | 255 | 1.54 | - |
| 5795MHz | Pass | PK | 5.9606G | 57.05 | 68.20 | -11.15 | 3 | Horizontal | 255 | 1.54 | - |
| 5795MHz | Pass | AV | 11.60326G | 39.37 | 54.00 | -14.63 | 3 | Vertical | 30 | 2.99 | - |
| 5795MHz | Pass | PK | 11.58184G | 52.44 | 74.00 | -21.56 | 3 | Vertical | 30 | 2.99 | - |
| 5795MHz | Pass | AV | 11.5948G | 39.33 | 54.00 | -14.67 | 3 | Horizontal | 150 | 1.99 | - |
| 5795MHz | Pass | PK | 11.59972G | 53.46 | 74.00 | -20.54 | 3 | Horizontal | 150 | 1.99 | - |

## 802.11a_Nss1,(6Mbps)_1TX

## 5180MHz_TX

25/07/2019

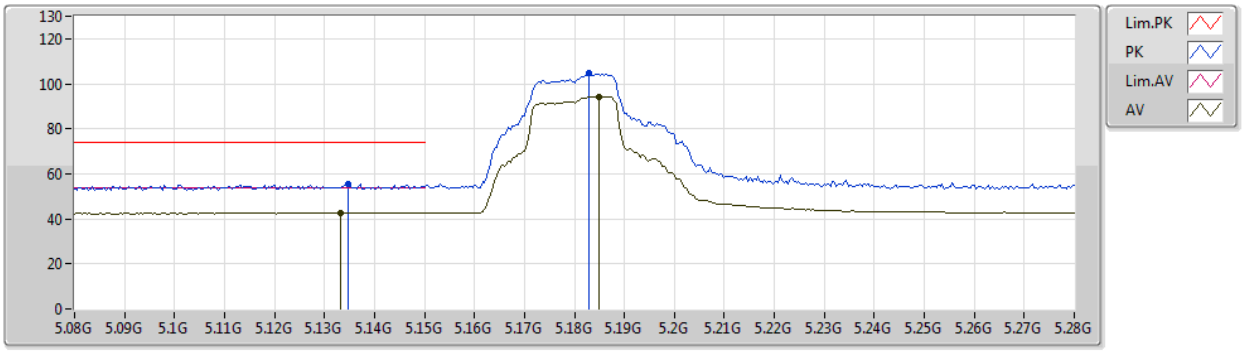



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.15G | 42.83 | 54.00 | -11.17 | 38.46 | 3 | Vertical | 218 | 1.56 | - | 31.76 | 7.04 | 34.43 |
| AV | 5.1864G | 105.89 | Inf | -Inf | 101.46 | 3 | Vertical | 218 | 1.56 | - | 31.77 | 7.08 | 34.42 |
| PK | 5.1344G | 55.49 | 74.00 | -18.51 | 51.15 | 3 | Vertical | 218 | 1.56 | - | 31.75 | 7.02 | 34.43 |
| PK | 5.1828G | 115.48 | Inf | -Inf | 111.05 | 3 | Vertical | 218 | 1.56 | - | 31.77 | 7.08 | 34.42 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5180MHz_TX

25/07/2019

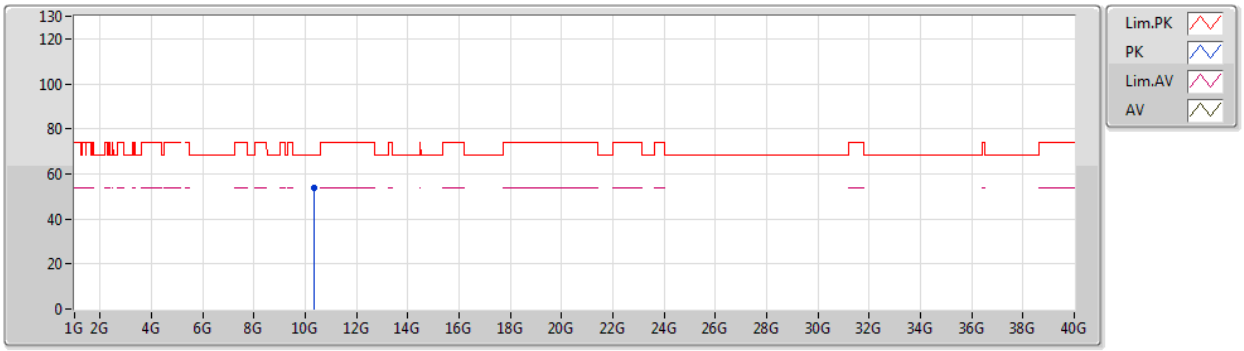



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.1332G | 42.83 | 54.00 | -11.17 | 38.49 | 3 | Horizontal | 336 | 1.63 | - | 31.75 | 7.02 | 34.43 |
| AV | 5.1848G | 94.35 | Inf | -Inf | 89.92 | 3 | Horizontal | 336 | 1.63 | - | 31.77 | 7.08 | 34.42 |
| PK | 5.1348G | 55.53 | 74.00 | -18.47 | 51.19 | 3 | Horizontal | 336 | 1.63 | - | 31.75 | 7.02 | 34.43 |
| PK | 5.1828G | 104.60 | Inf | -Inf | 100.17 | 3 | Horizontal | 336 | 1.63 | - | 31.77 | 7.08 | 34.42 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5180MHz_TX

25/07/2019

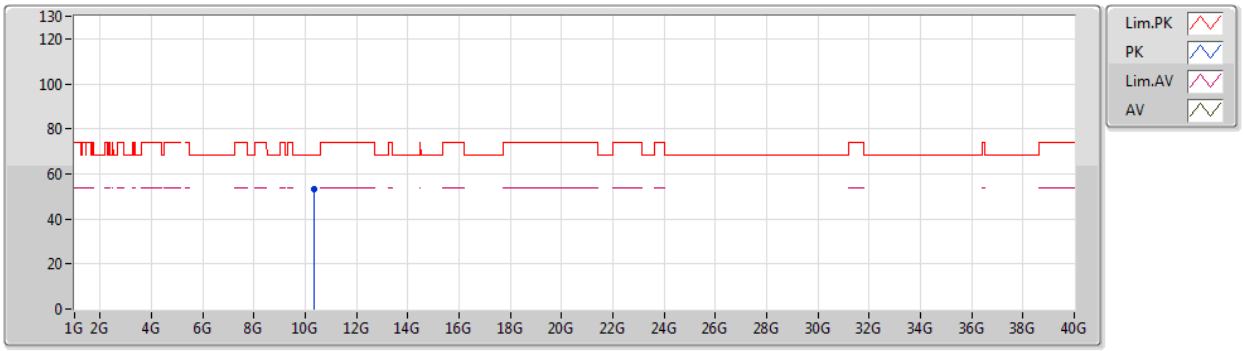



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.34872G | 54.01 | 68.20 | -14.19 | 39.24 | 3 | Vertical | 219 | 1.49 | - | 39.35 | 10.33 | 34.91 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5180MHz_TX

25/07/2019

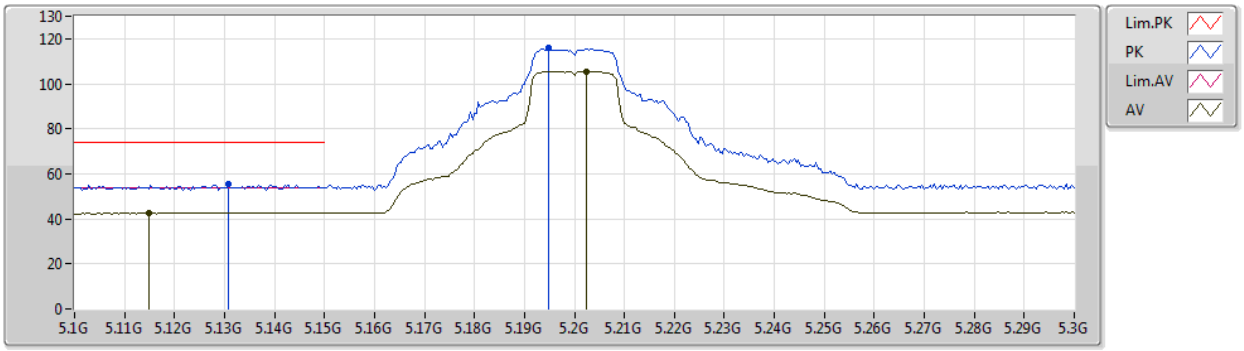



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.36486G | 53.36 | 68.20 | -14.84 | 38.56 | 3 | Horizontal | 151 | 1.24 | - | 39.37 | 10.33 | 34.90 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5200MHz_TX

25/07/2019

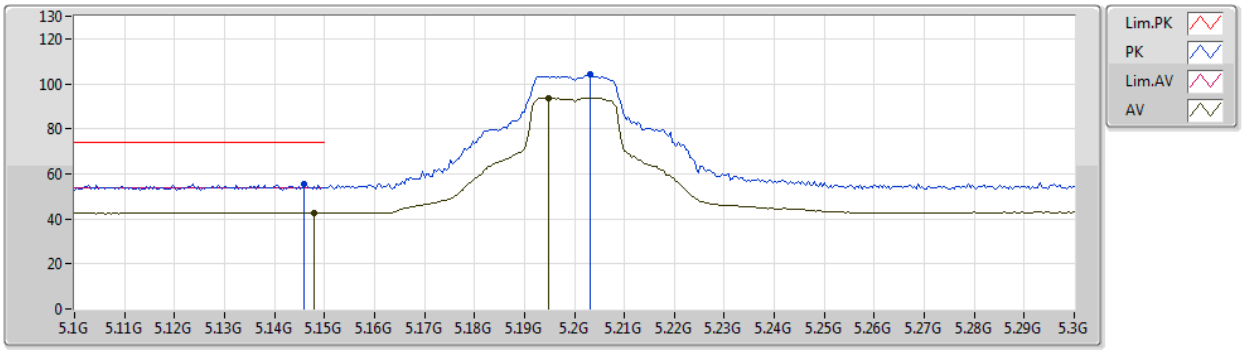



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.1148G | 42.77 | 54.00 | -11.23 | 38.46 | 3 | Vertical | 218 | 1.51 | - | 31.75 | 6.99 | 34.43 |
| AV | 5.2024G | 105.48 | Inf | -Inf | 101.02 | 3 | Vertical | 218 | 1.51 | - | 31.78 | 7.10 | 34.42 |
| PK | 5.1308G | 55.23 | 74.00 | -18.77 | 50.90 | 3 | Vertical | 218 | 1.51 | - | 31.75 | 7.01 | 34.43 |
| PK | 5.1948G | 115.93 | Inf | -Inf | 111.48 | 3 | Vertical | 218 | 1.51 | - | 31.78 | 7.09 | 34.42 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5200MHz_TX

25/07/2019

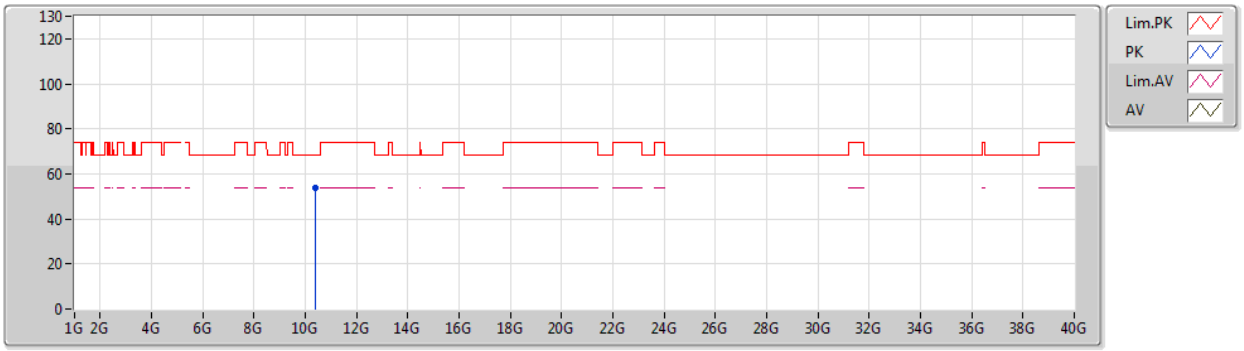



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.148G | 42.79 | 54.00 | -11.21 | 38.43 | 3 | Horizontal | 336 | 1.57 | - | 31.76 | 7.03 | 34.43 |
| AV | 5.1948G | 93.69 | Inf | -Inf | 89.24 | 3 | Horizontal | 336 | 1.57 | - | 31.78 | 7.09 | 34.42 |
| PK | 5.146G | 55.69 | 74.00 | -18.31 | 51.33 | 3 | Horizontal | 336 | 1.57 | - | 31.76 | 7.03 | 34.43 |
| PK | 5.2032G | 103.96 | Inf | -Inf | 99.50 | 3 | Horizontal | 336 | 1.57 | - | 31.78 | 7.10 | 34.42 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5200MHz_TX

25/07/2019

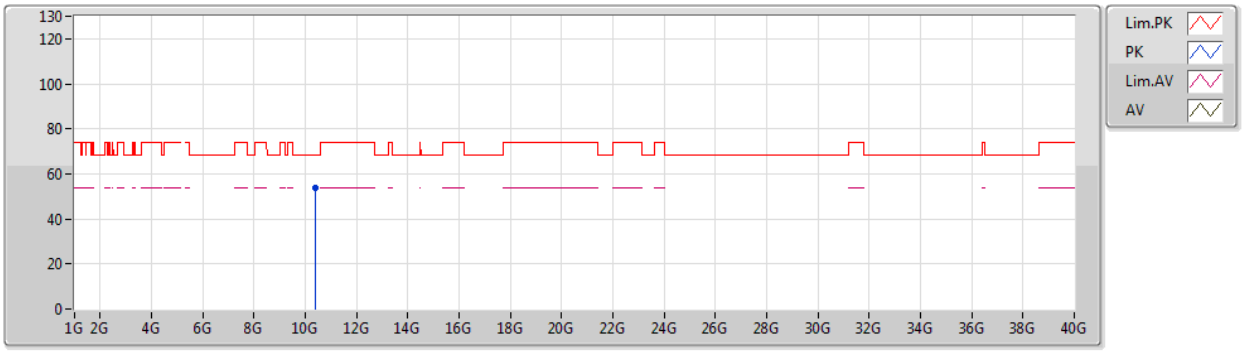



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.38716G | 53.68 | 68.20 | -14.52 | 38.83 | 3 | Vertical | 356 | 1.21 | - | 39.40 | 10.33 | 34.88 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5200MHz_TX

25/07/2019

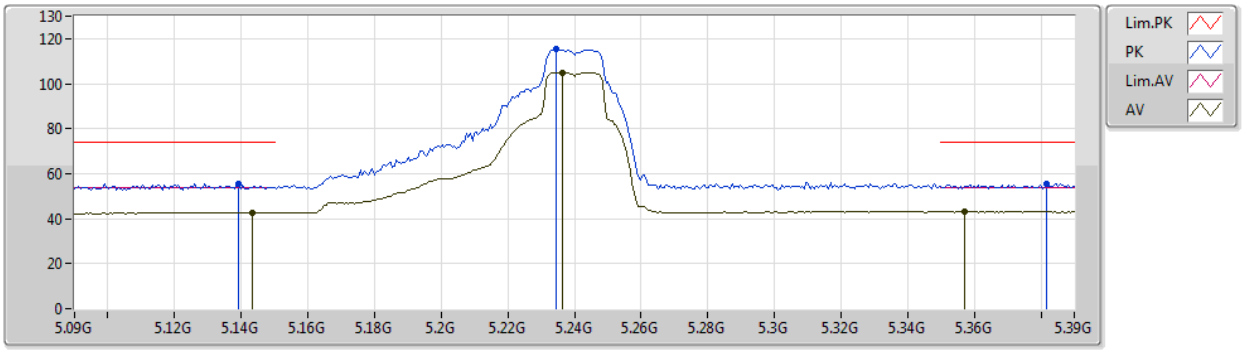



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.38932G | 53.63 | 68.20 | -14.57 | 38.77 | 3 | Horizontal | 208 | 1.47 | - | 39.41 | 10.33 | 34.88 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5240MHz_TX

25/07/2019

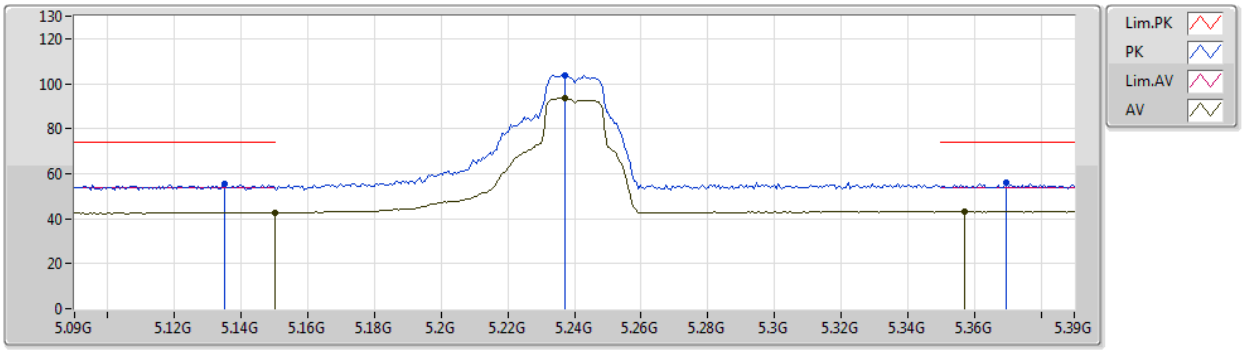



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.1434G | 42.81 | 54.00 | -11.19 | 38.45 | 3 | Vertical | 217 | 1.49 | - | 31.76 | 7.03 | 34.43 |
| AV | 5.2364G | 104.87 | Inf | -Inf | 100.36 | 3 | Vertical | 217 | 1.49 | - | 31.79 | 7.14 | 34.42 |
| AV | 5.357G | 43.14 | 54.00 | -10.86 | 38.41 | 3 | Vertical | 217 | 1.49 | - | 31.84 | 7.30 | 34.41 |
| PK | 5.1392G | 55.73 | 74.00 | -18.27 | 51.38 | 3 | Vertical | 217 | 1.49 | - | 31.76 | 7.02 | 34.43 |
| PK | 5.2346G | 115.25 | Inf | -Inf | 110.74 | 3 | Vertical | 217 | 1.49 | - | 31.79 | 7.14 | 34.42 |
| PK | 5.3816G | 55.67 | 74.00 | -18.33 | 50.90 | 3 | Vertical | 217 | 1.49 | - | 31.85 | 7.33 | 34.41 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5240MHz_TX

25/07/2019

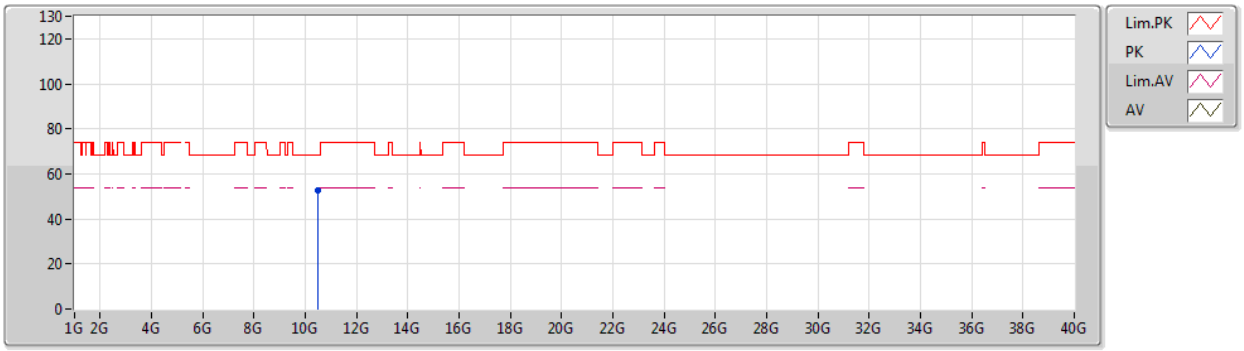



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.15G | 42.82 | 54.00 | -11.18 | 38.45 | 3 | Horizontal | 335 | 1.00 | - | 31.76 | 7.04 | 34.43 |
| AV | 5.237G | 93.51 | Inf | -Inf | 88.99 | 3 | Horizontal | 335 | 1.00 | - | 31.79 | 7.15 | 34.42 |
| AV | 5.357G | 43.14 | 54.00 | -10.86 | 38.41 | 3 | Horizontal | 335 | 1.00 | - | 31.84 | 7.30 | 34.41 |
| PK | 5.135G | 55.75 | 74.00 | -18.25 | 51.41 | 3 | Horizontal | 335 | 1.00 | - | 31.75 | 7.02 | 34.43 |
| PK | 5.237G | 103.63 | Inf | -Inf | 99.11 | 3 | Horizontal | 335 | 1.00 | - | 31.79 | 7.15 | 34.42 |
| PK | 5.3696G | 55.78 | 74.00 | -18.22 | 51.03 | 3 | Horizontal | 335 | 1.00 | - | 31.85 | 7.31 | 34.41 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5240MHz_TX

25/07/2019

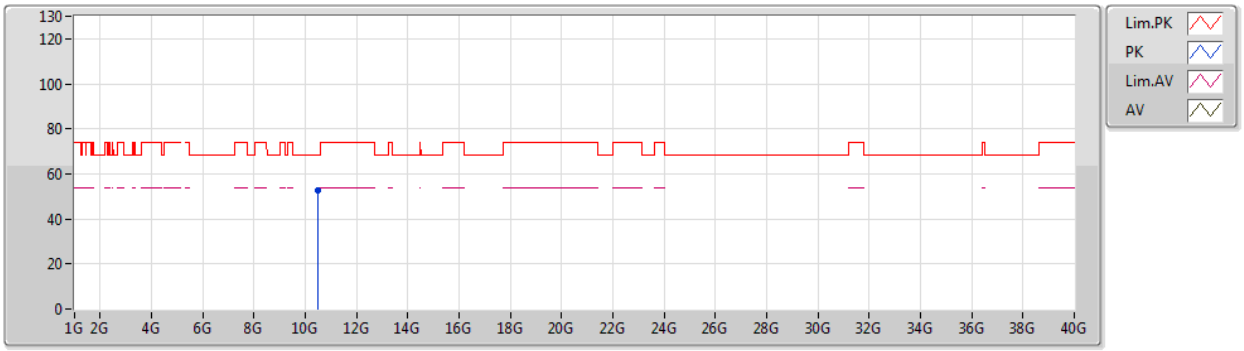



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.47802G | 52.56 | 68.20 | -15.64 | 37.49 | 3 | Vertical | 341 | 1.49 | - | 39.52 | 10.35 | 34.80 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5240MHz_TX

25/07/2019

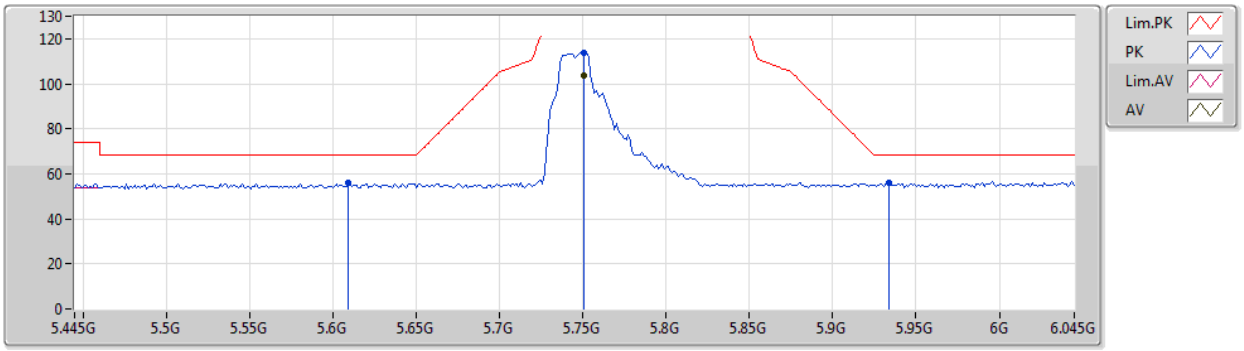



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.49326G | 52.93 | 68.20 | -15.27 | 37.83 | 3 | Horizontal | 262 | 1.38 | - | 39.54 | 10.35 | 34.79 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5745MHz_TX

25/07/2019

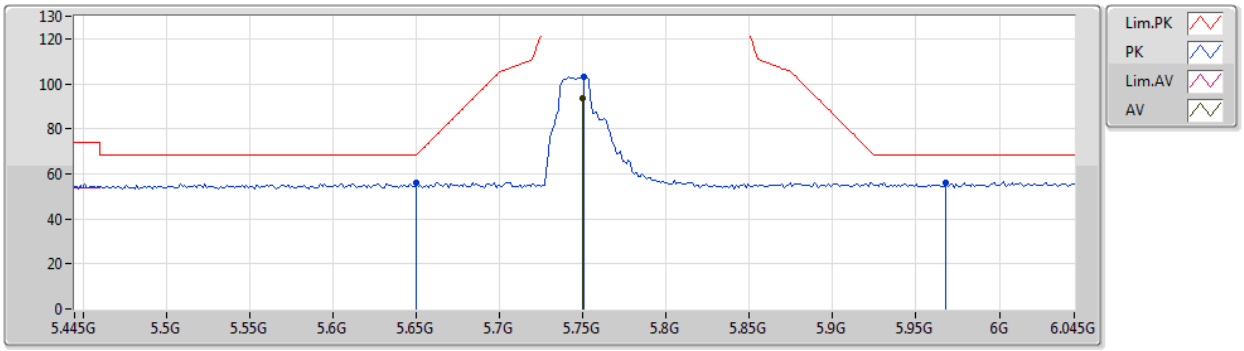



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.751G | 103.91 | Inf | -Inf | 98.49 | 3 | Vertical | 7 | 1.49 | - | 32.25 | 7.64 | 34.47 |
| PK | 5.6094G | 56.11 | 68.20 | -12.09 | 50.94 | 3 | Vertical | 7 | 1.49 | - | 32.05 | 7.55 | 34.43 |
| PK | 5.751G | 113.97 | Inf | -Inf | 108.55 | 3 | Vertical | 7 | 1.49 | - | 32.25 | 7.64 | 34.47 |
| PK | 5.9334G | 56.08 | 68.20 | -12.12 | 50.32 | 3 | Vertical | 7 | 1.49 | - | 32.51 | 7.76 | 34.51 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5745MHz_TX

25/07/2019

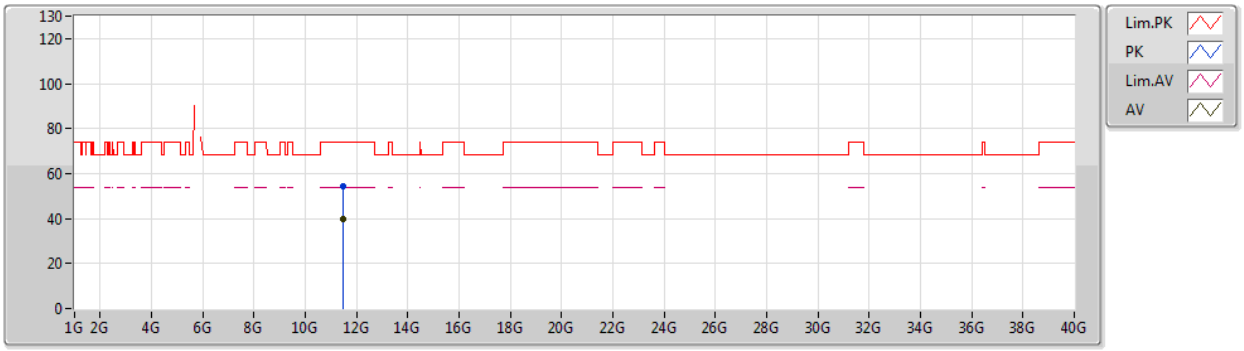



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.7498G | 93.76 | Inf | -Inf | 88.33 | 3 | Horizontal | 217 | 1.49 | - | 32.25 | 7.64 | 34.46 |
| PK | 5.6502G | 55.82 | 68.35 | -12.53 | 50.58 | 3 | Horizontal | 217 | 1.49 | - | 32.11 | 7.57 | 34.44 |
| PK | 5.751G | 103.37 | Inf | -Inf | 97.95 | 3 | Horizontal | 217 | 1.49 | - | 32.25 | 7.64 | 34.47 |
| PK | 5.9682G | 56.28 | 68.20 | -11.92 | 50.45 | 3 | Horizontal | 217 | 1.49 | - | 32.56 | 7.78 | 34.51 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5745MHz_TX

25/07/2019

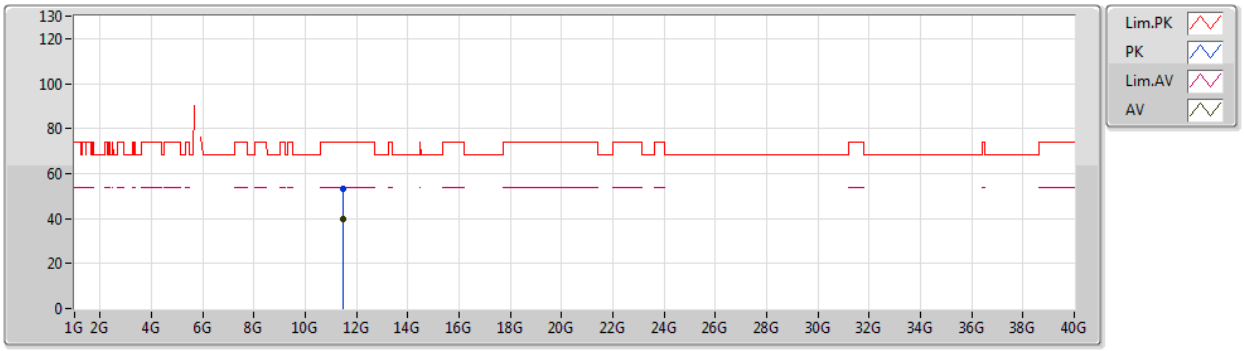



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 11.49147G | 39.98 | 54.00 | -14.02 | 24.19 | 3 | Vertical | 335 | 1.53 | - | 39.61 | 10.68 | 34.50 |
| PK | 11.48957G | 54.16 | 74.00 | -19.84 | 38.37 | 3 | Vertical | 335 | 1.53 | - | 39.61 | 10.68 | 34.50 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5745MHz_TX

25/07/2019

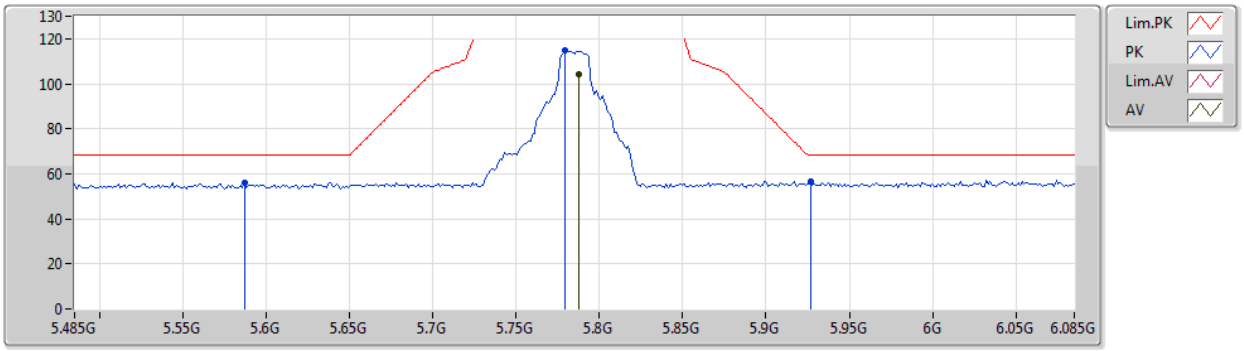



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 11.48903G | 39.96 | 54.00 | -14.04 | 24.17 | 3 | Horizontal | 67 | 1.06 | - | 39.61 | 10.68 | 34.50 |
| PK | 11.48902G | 53.46 | 74.00 | -20.54 | 37.67 | 3 | Horizontal | 67 | 1.06 | - | 39.61 | 10.68 | 34.50 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5785MHz_TX

25/07/2019

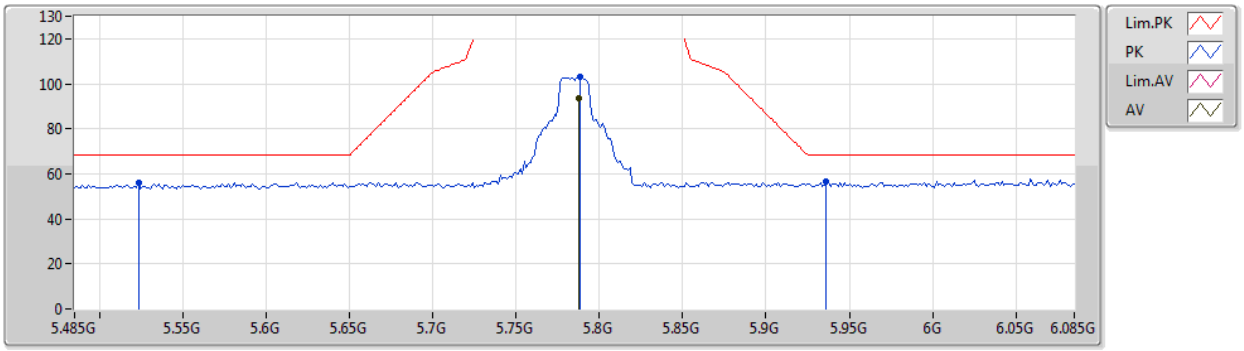



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.7874G | 104.48 | Inf | -Inf | 99.00 | 3 | Vertical | 4 | 1.54 | - | 32.30 | 7.66 | 34.48 |
| PK | 5.587G | 56.05 | 68.20 | -12.15 | 50.93 | 3 | Vertical | 4 | 1.54 | - | 32.02 | 7.53 | 34.43 |
| PK | 5.779G | 114.62 | Inf | -Inf | 109.14 | 3 | Vertical | 4 | 1.54 | - | 32.29 | 7.66 | 34.47 |
| PK | 5.9266G | 56.38 | 68.20 | -11.82 | 50.64 | 3 | Vertical | 4 | 1.54 | - | 32.50 | 7.75 | 34.51 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5785MHz_TX

25/07/2019

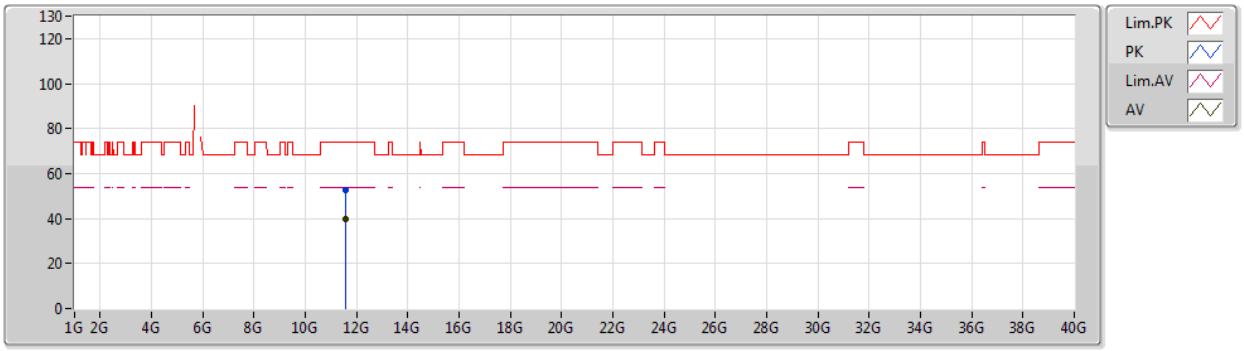



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.7874G | 93.38 | Inf | -Inf | 87.90 | 3 | Horizontal | 225 | 1.37 | - | 32.30 | 7.66 | 34.48 |
| PK | 5.5234G | 56.05 | 68.20 | -12.15 | 51.04 | 3 | Horizontal | 225 | 1.37 | - | 31.93 | 7.49 | 34.41 |
| PK | 5.7886G | 103.09 | Inf | -Inf | 97.61 | 3 | Horizontal | 225 | 1.37 | - | 32.30 | 7.66 | 34.48 |
| PK | 5.9362G | 56.72 | 68.20 | -11.48 | 50.96 | 3 | Horizontal | 225 | 1.37 | - | 32.51 | 7.76 | 34.51 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5785MHz_TX

25/07/2019

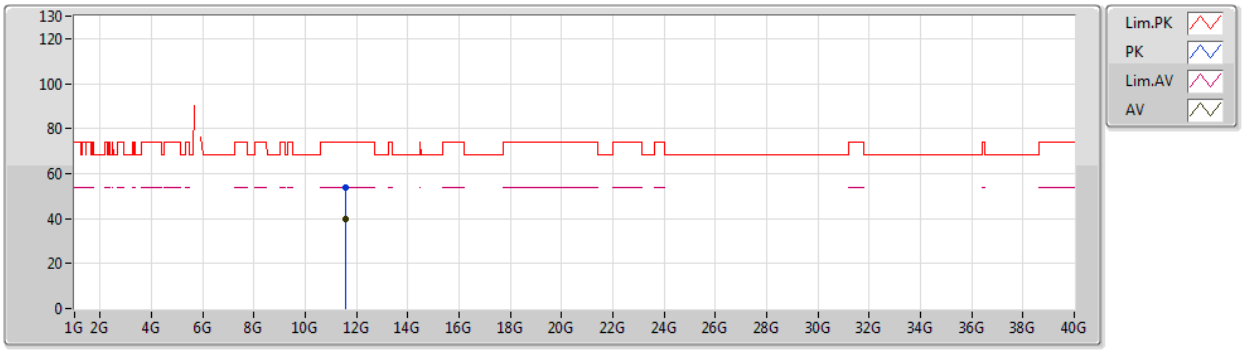



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 11.56806G | 39.73 | 54.00 | -14.27 | 24.01 | 3 | Vertical | 155 | 2.19 | - | 39.52 | 10.72 | 34.52 |
| PK | 11.56871G | 52.87 | 74.00 | -21.13 | 37.15 | 3 | Vertical | 155 | 2.19 | - | 39.52 | 10.72 | 34.52 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5785MHz_TX

25/07/2019

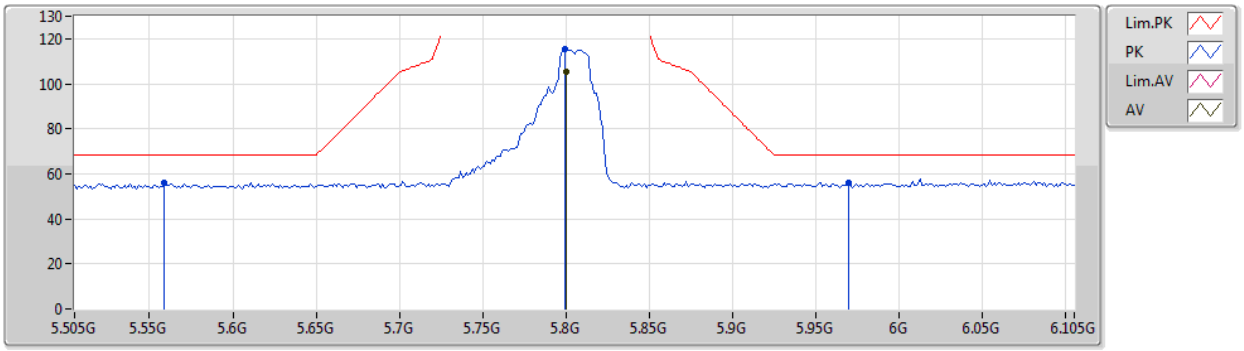



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 11.57077G | 39.75 | 54.00 | -14.25 | 24.03 | 3 | Horizontal | 227 | 2.42 | - | 39.52 | 10.72 | 34.52 |
| PK | 11.56909G | 53.96 | 74.00 | -20.04 | 38.24 | 3 | Horizontal | 227 | 2.42 | - | 39.52 | 10.72 | 34.52 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5805MHz_TX

25/07/2019

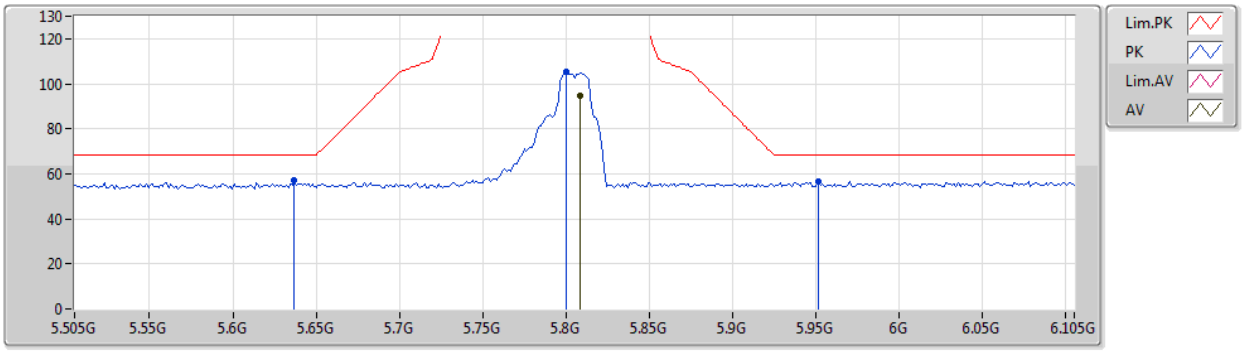



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.8002G | 105.32 | Inf | -Inf | 99.81 | 3 | Vertical | 5 | 1.37 | - | 32.32 | 7.67 | 34.48 |
| PK | 5.559G | 56.20 | 68.20 | -12.00 | 51.13 | 3 | Vertical | 5 | 1.37 | - | 31.98 | 7.51 | 34.42 |
| PK | 5.799G | 115.50 | Inf | -Inf | 109.99 | 3 | Vertical | 5 | 1.37 | - | 32.32 | 7.67 | 34.48 |
| PK | 5.9694G | 56.23 | 68.20 | -11.97 | 50.40 | 3 | Vertical | 5 | 1.37 | - | 32.56 | 7.78 | 34.51 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5805MHz_TX

25/07/2019

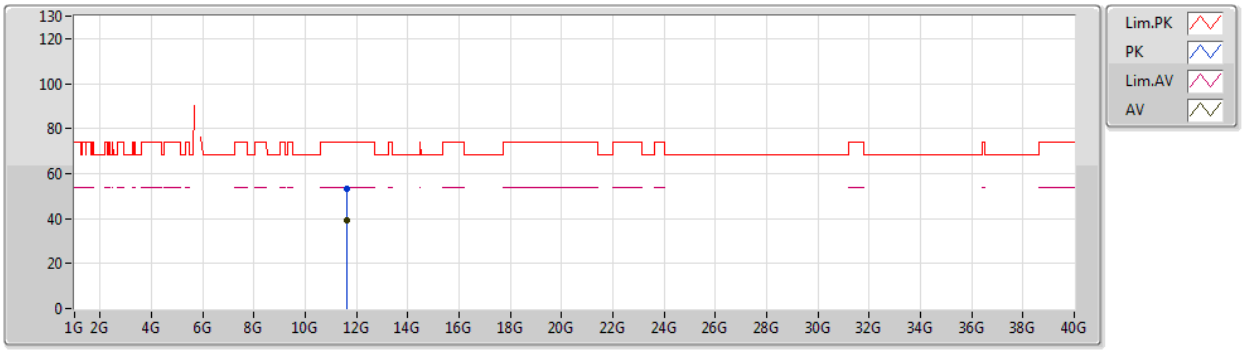



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.8086G | 94.95 | Inf | -Inf | 89.43 | 3 | Horizontal | 217 | 1.62 | - | 32.33 | 7.67 | 34.48 |
| PK | 5.637G | 56.98 | 68.20 | -11.22 | 51.77 | 3 | Horizontal | 217 | 1.62 | - | 32.09 | 7.56 | 34.44 |
| PK | 5.8002G | 105.20 | Inf | -Inf | 99.69 | 3 | Horizontal | 217 | 1.62 | - | 32.32 | 7.67 | 34.48 |
| PK | 5.9514G | 56.45 | 68.20 | -11.75 | 50.66 | 3 | Horizontal | 217 | 1.62 | - | 32.53 | 7.77 | 34.51 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5805MHz_TX

25/07/2019

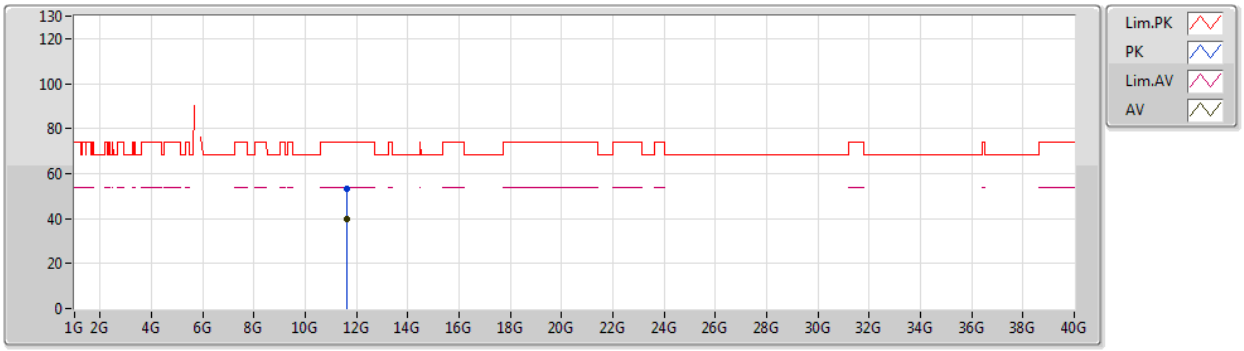



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 11.60969G | 39.39 | 54.00 | -14.61 | 23.71 | 3 | Vertical | 250 | 2.15 | - | 39.47 | 10.74 | 34.53 |
| PK | 11.61162G | 53.24 | 74.00 | -20.76 | 37.57 | 3 | Vertical | 250 | 2.15 | - | 39.47 | 10.74 | 34.54 |

## 802.11a_Nss1,(6Mbps)_1TX

## 5805MHz_TX

25/07/2019

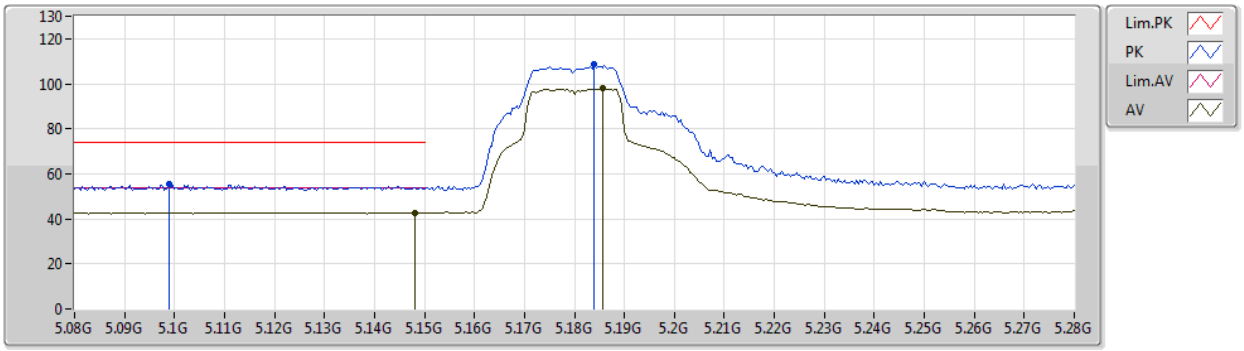



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 11.60858G | 39.51 | 54.00 | -14.49 | 23.83 | 3 | Horizontal | 133 | 1.66 | - | 39.47 | 10.74 | 34.53 |
| PK | 11.60894G | 53.29 | 74.00 | -20.71 | 37.61 | 3 | Horizontal | 133 | 1.66 | - | 39.47 | 10.74 | 34.53 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5180MHz_TX

23/07/2019

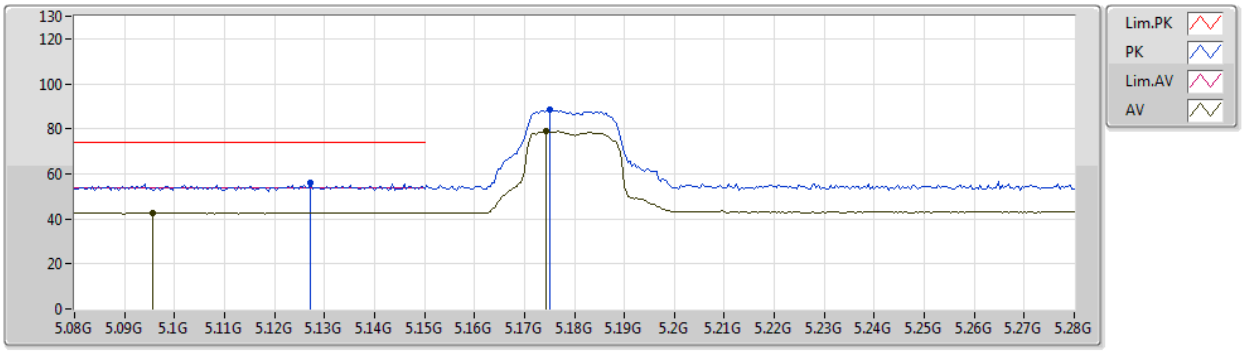



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.148G | 42.86 | 54.00 | -11.14 | 38.50 | 3 | Vertical | 18 | 1.94 | - | 31.76 | 7.03 | 34.43 |
| AV | 5.1856G | 98.06 | Inf | -Inf | 93.63 | 3 | Vertical | 18 | 1.94 | - | 31.77 | 7.08 | 34.42 |
| PK | 5.0988G | 55.35 | 74.00 | -18.65 | 51.07 | 3 | Vertical | 18 | 1.94 | - | 31.74 | 6.97 | 34.43 |
| PK | 5.184G | 108.69 | Inf | -Inf | 104.26 | 3 | Vertical | 18 | 1.94 | - | 31.77 | 7.08 | 34.42 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5180MHz_TX

23/07/2019

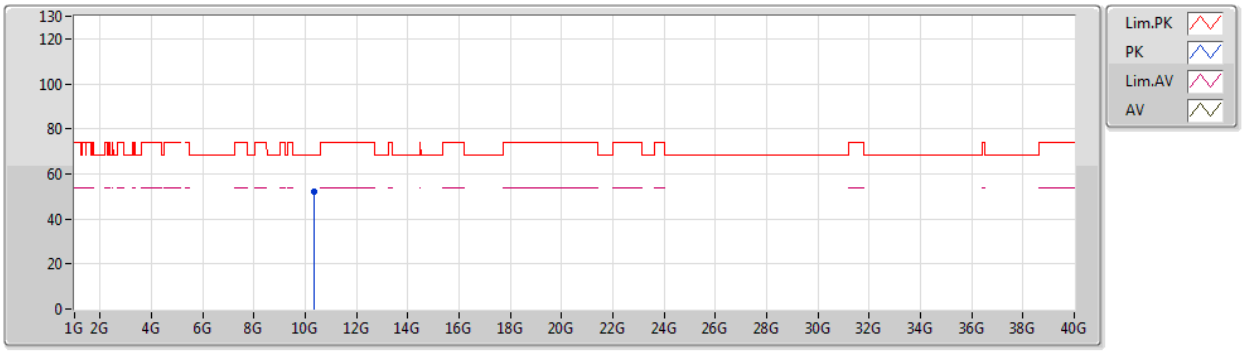



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.0956G | 42.79 | 54.00 | -11.21 | 38.51 | 3 | Horizontal | 332 | 1.62 | - | 31.74 | 6.97 | 34.43 |
| AV | 5.1744G | 79.24 | Inf | -Inf | 74.82 | 3 | Horizontal | 332 | 1.62 | - | 31.77 | 7.07 | 34.42 |
| PK | 5.1272G | 56.23 | 74.00 | -17.77 | 51.90 | 3 | Horizontal | 332 | 1.62 | - | 31.75 | 7.01 | 34.43 |
| PK | 5.1752G | 88.26 | Inf | -Inf | 83.84 | 3 | Horizontal | 332 | 1.62 | - | 31.77 | 7.07 | 34.42 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5180MHz_TX

23/07/2019

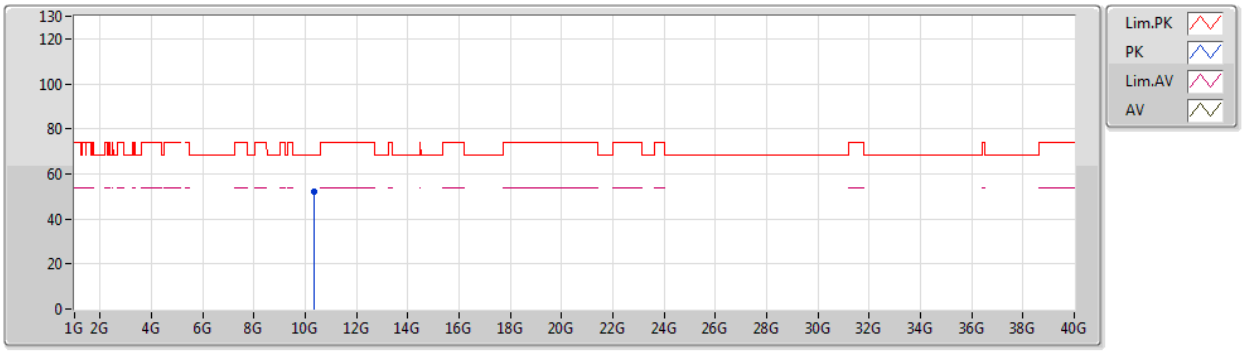



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.34722G | 51.85 | 68.20 | -16.35 | 37.08 | 3 | Vertical | 301 | 1.48 | - | 39.35 | 10.33 | 34.91 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5180MHz_TX

23/07/2019

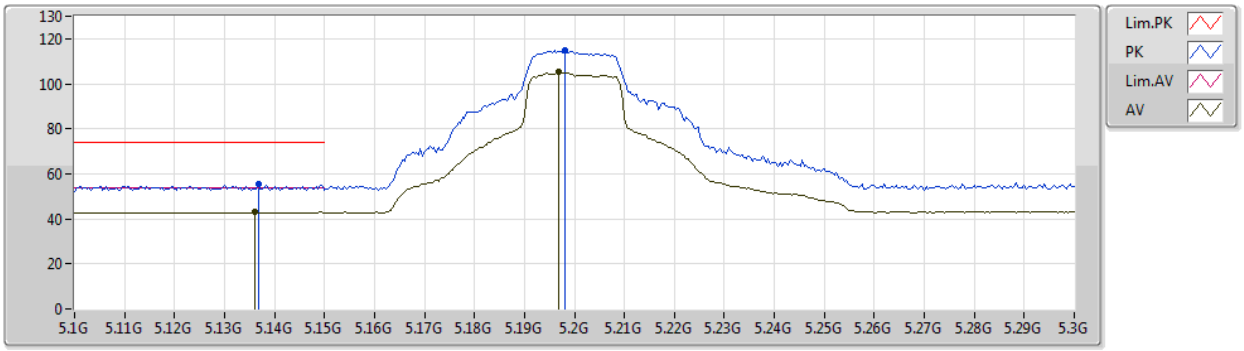



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.35832G | 52.15 | 68.20 | -16.05 | 37.35 | 3 | Horizontal | 0 | 1.49 | - | 39.37 | 10.33 | 34.90 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5200MHz_TX

23/07/2019

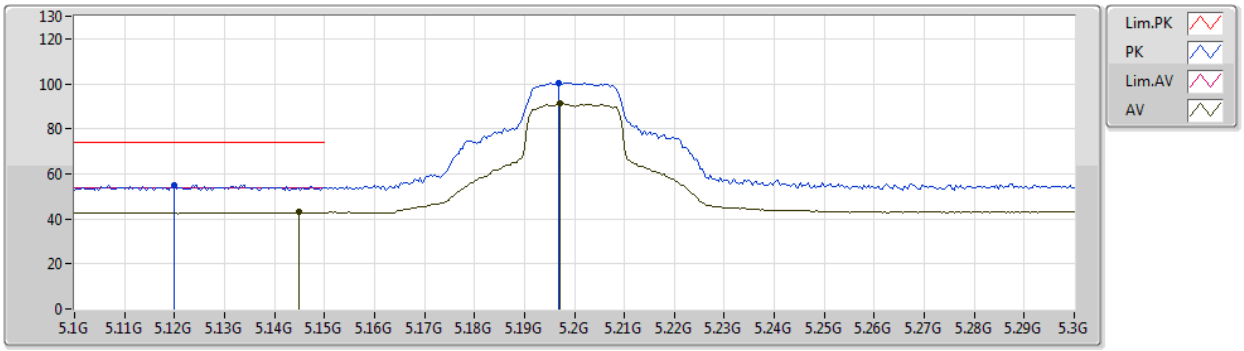



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.136G | 42.94 | 54.00 | -11.06 | 38.60 | 3 | Vertical | 302 | 1.74 | - | 31.75 | 7.02 | 34.43 |
| AV | 5.1968G | 105.27 | Inf | -Inf | 100.81 | 3 | Vertical | 302 | 1.74 | - | 31.78 | 7.10 | 34.42 |
| PK | 5.1368G | 55.67 | 74.00 | -18.33 | 51.33 | 3 | Vertical | 302 | 1.74 | - | 31.75 | 7.02 | 34.43 |
| PK | 5.198G | 114.78 | Inf | -Inf | 110.32 | 3 | Vertical | 302 | 1.74 | - | 31.78 | 7.10 | 34.42 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5200MHz_TX

23/07/2019

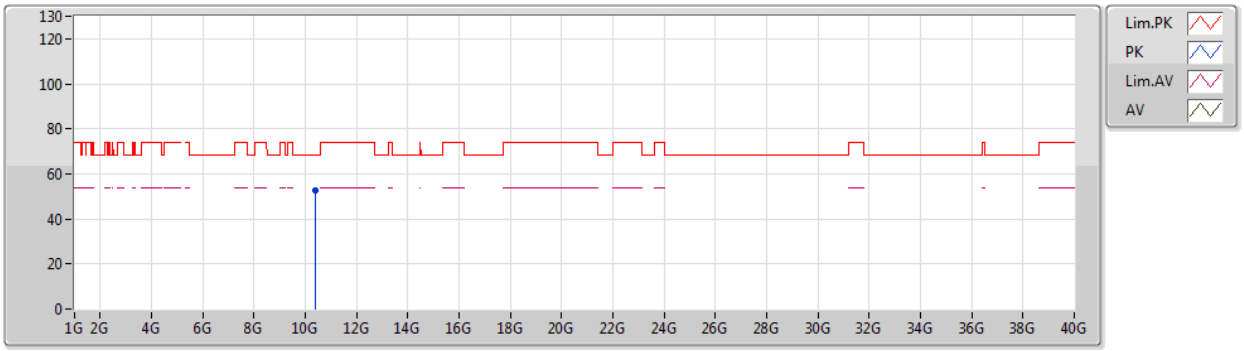



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.1448G | 42.88 | 54.00 | -11.12 | 38.52 | 3 | Horizontal | 248 | 1.61 | - | 31.76 | 7.03 | 34.43 |
| AV | 5.1972G | 91.18 | Inf | -Inf | 86.72 | 3 | Horizontal | 248 | 1.61 | - | 31.78 | 7.10 | 34.42 |
| PK | 5.12G | 54.96 | 74.00 | -19.04 | 50.64 | 3 | Horizontal | 248 | 1.61 | - | 31.75 | 7.00 | 34.43 |
| PK | 5.1968G | 100.58 | Inf | -Inf | 96.12 | 3 | Horizontal | 248 | 1.61 | - | 31.78 | 7.10 | 34.42 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5200MHz_TX

23/07/2019

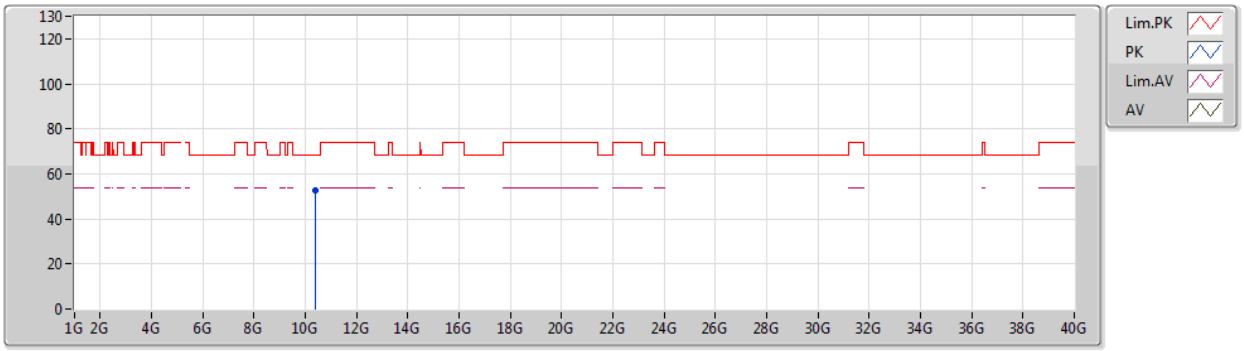



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.39358G | 52.94 | 68.20 | -15.26 | 38.07 | 3 | Vertical | 55 | 1.50 | - | 39.41 | 10.33 | 34.87 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5200MHz_TX

23/07/2019

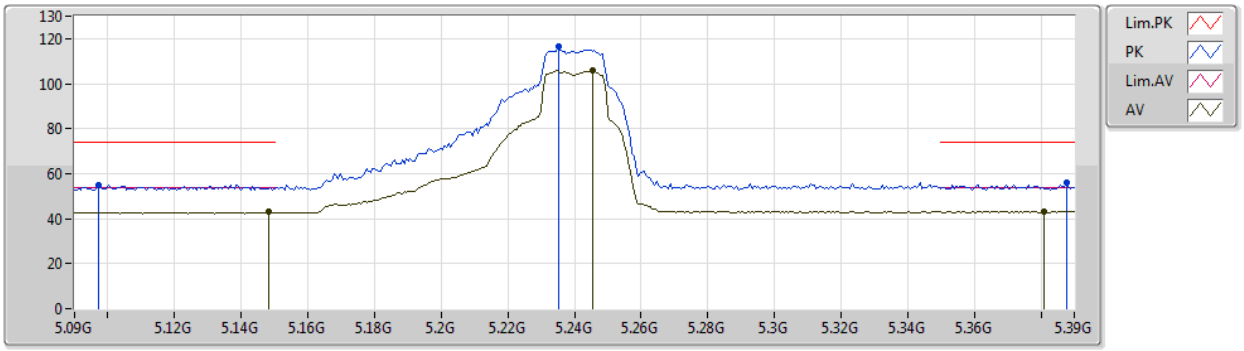



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.40324G | 52.42 | 68.20 | -15.78 | 37.53 | 3 | Horizontal | 332 | 1.53 | - | 39.42 | 10.34 | 34.87 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5240MHz_TX

23/07/2019

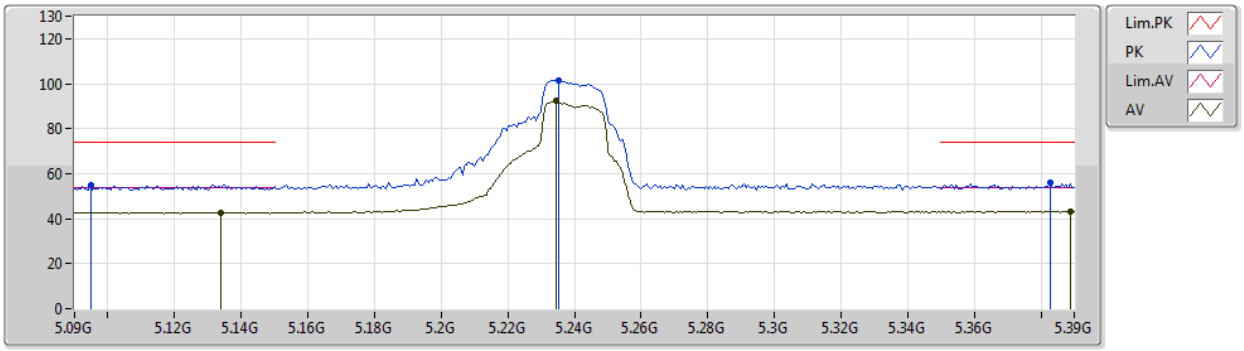



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.1482G | 42.87 | 54.00 | -11.13 | 38.51 | 3 | Vertical | 302 | 2.71 | - | 31.76 | 7.03 | 34.43 |
| AV | 5.2454G | 105.79 | Inf | -Inf | 101.25 | 3 | Vertical | 302 | 2.71 | - | 31.80 | 7.16 | 34.42 |
| AV | 5.381G | 43.17 | 54.00 | -10.83 | 38.40 | 3 | Vertical | 302 | 2.71 | - | 31.85 | 7.33 | 34.41 |
| PK | 5.0972G | 55.13 | 74.00 | -18.87 | 50.85 | 3 | Vertical | 302 | 2.71 | - | 31.74 | 6.97 | 34.43 |
| PK | 5.2352G | 116.37 | Inf | -Inf | 111.86 | 3 | Vertical | 302 | 2.71 | - | 31.79 | 7.14 | 34.42 |
| PK | 5.3876G | 55.79 | 74.00 | -18.21 | 51.01 | 3 | Vertical | 302 | 2.71 | - | 31.86 | 7.33 | 34.41 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5240MHz_TX

23/07/2019

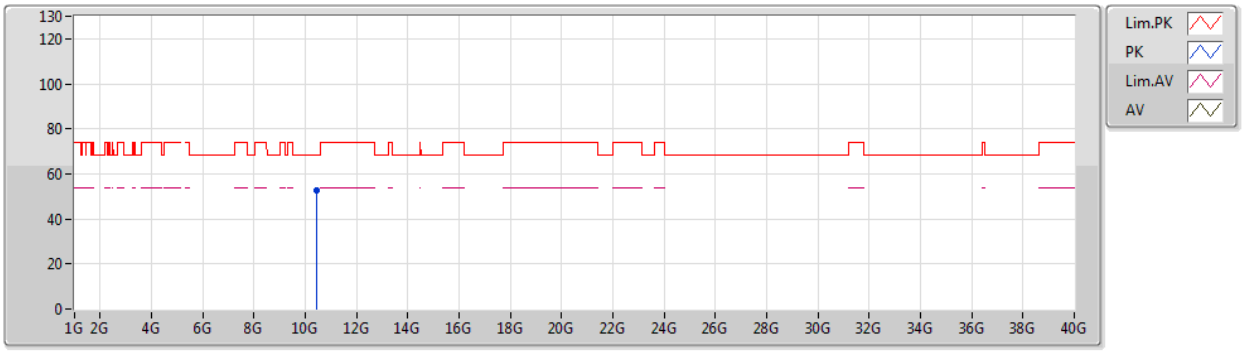



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.1338G | 42.76 | 54.00 | -11.24 | 38.42 | 3 | Horizontal | 239 | 2.86 | - | 31.75 | 7.02 | 34.43 |
| AV | 5.2346G | 92.28 | Inf | -Inf | 87.77 | 3 | Horizontal | 239 | 2.86 | - | 31.79 | 7.14 | 34.42 |
| AV | 5.3888G | 43.11 | 54.00 | -10.89 | 38.32 | 3 | Horizontal | 239 | 2.86 | - | 31.86 | 7.34 | 34.41 |
| PK | 5.0948G | 55.16 | 74.00 | -18.84 | 50.88 | 3 | Horizontal | 239 | 2.86 | - | 31.74 | 6.97 | 34.43 |
| PK | 5.2352G | 101.45 | Inf | -Inf | 96.94 | 3 | Horizontal | 239 | 2.86 | - | 31.79 | 7.14 | 34.42 |
| PK | 5.3828G | 55.78 | 74.00 | -18.22 | 51.01 | 3 | Horizontal | 239 | 2.86 | - | 31.85 | 7.33 | 34.41 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5240MHz_TX

23/07/2019

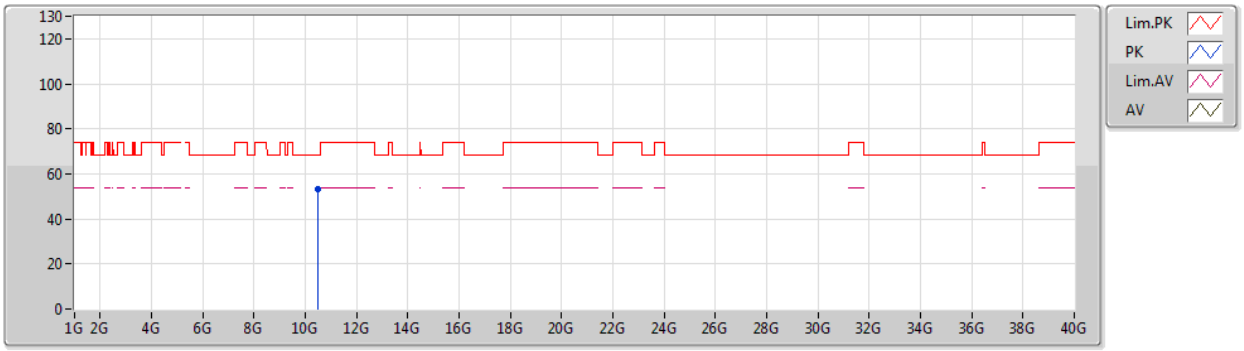



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.4653G | 52.75 | 68.20 | -15.45 | 37.71 | 3 | Vertical | 280 | 1.50 | - | 39.50 | 10.35 | 34.81 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5240MHz_TX

23/07/2019

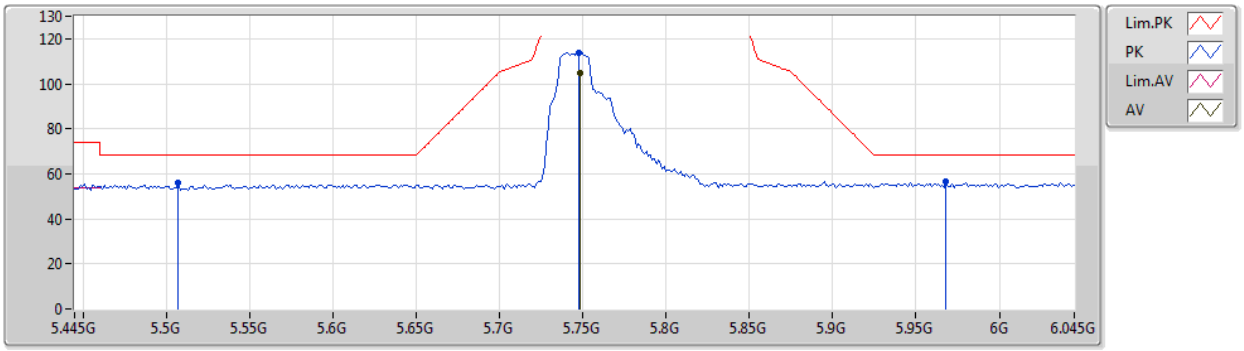



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.49374G | 53.32 | 68.20 | -14.88 | 38.22 | 3 | Horizontal | 236 | 1.74 | - | 39.54 | 10.35 | 34.79 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5745MHz_TX

23/07/2019

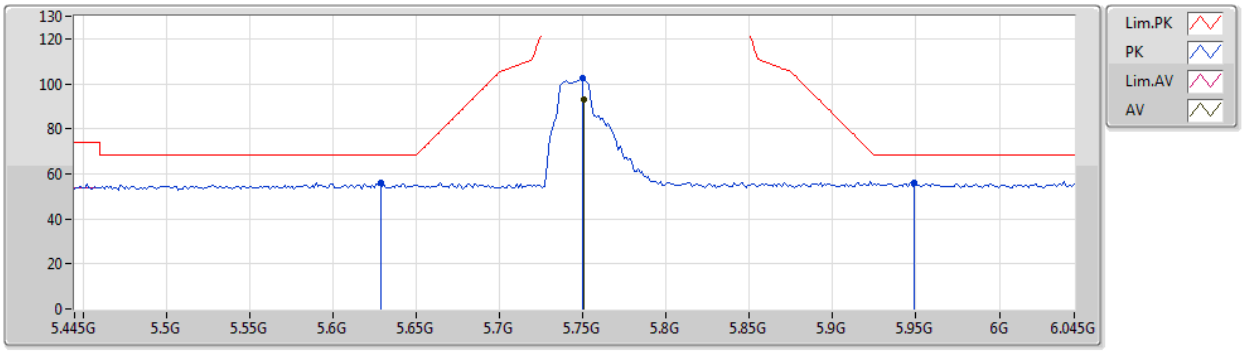



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.7486G | 104.66 | Inf | -Inf | 99.23 | 3 | Vertical | 328 | 2.28 | - | 32.25 | 7.64 | 34.46 |
| PK | 5.5074G | 55.76 | 68.20 | -12.44 | 50.78 | 3 | Vertical | 328 | 2.28 | - | 31.91 | 7.48 | 34.41 |
| PK | 5.7474G | 113.77 | Inf | -Inf | 108.34 | 3 | Vertical | 328 | 2.28 | - | 32.25 | 7.64 | 34.46 |
| PK | 5.9682G | 56.52 | 68.20 | -11.68 | 50.69 | 3 | Vertical | 328 | 2.28 | - | 32.56 | 7.78 | 34.51 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5745MHz_TX

23/07/2019

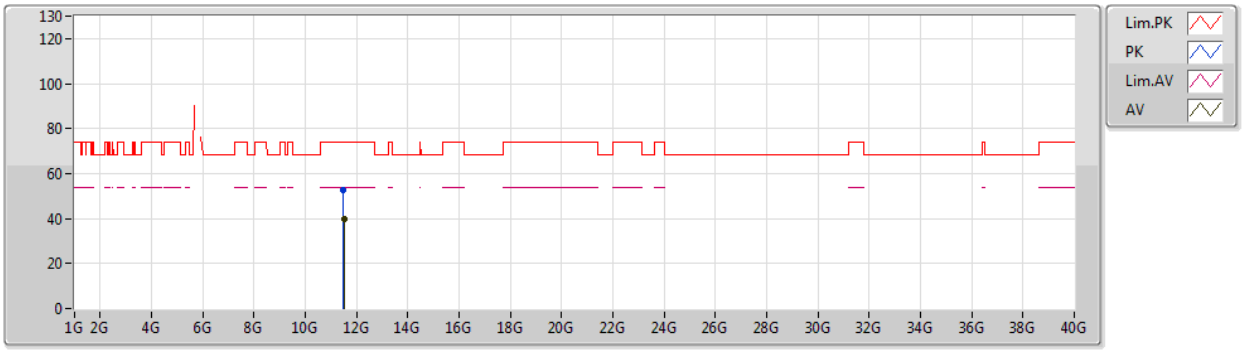



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.751G | 92.97 | Inf | -Inf | 87.55 | 3 | Horizontal | 344 | 2.89 | - | 32.25 | 7.64 | 34.47 |
| PK | 5.6286G | 56.10 | 68.20 | -12.10 | 50.90 | 3 | Horizontal | 344 | 2.89 | - | 32.08 | 7.56 | 34.44 |
| PK | 5.7498G | 102.27 | Inf | -Inf | 96.84 | 3 | Horizontal | 344 | 2.89 | - | 32.25 | 7.64 | 34.46 |
| PK | 5.949G | 56.28 | 68.20 | -11.92 | 50.49 | 3 | Horizontal | 344 | 2.89 | - | 32.53 | 7.77 | 34.51 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5745MHz_TX

23/07/2019

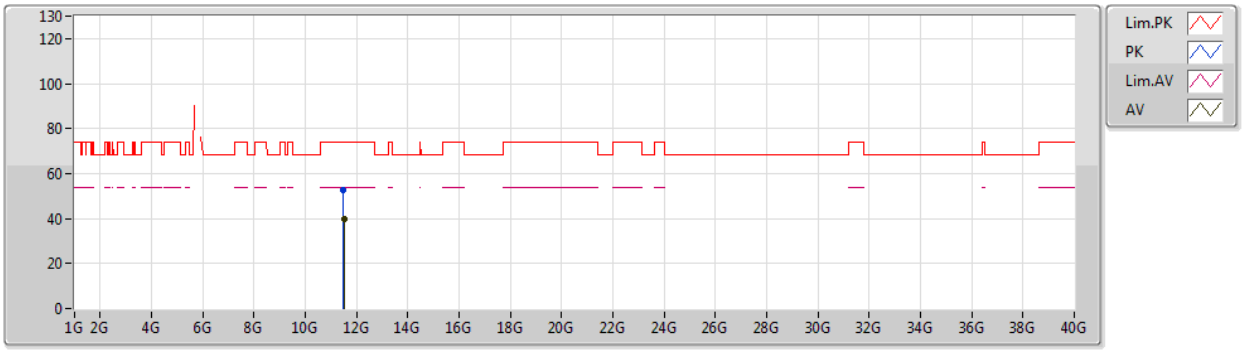



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 11.50014G | 39.88 | 54.00 | -14.12 | 24.10 | 3 | Vertical | 306 | 2.63 | - | 39.60 | 10.69 | 34.51 |
| PK | 11.49624G | 52.61 | 74.00 | -21.39 | 36.83 | 3 | Vertical | 306 | 2.63 | - | 39.60 | 10.68 | 34.50 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5745MHz_TX

23/07/2019

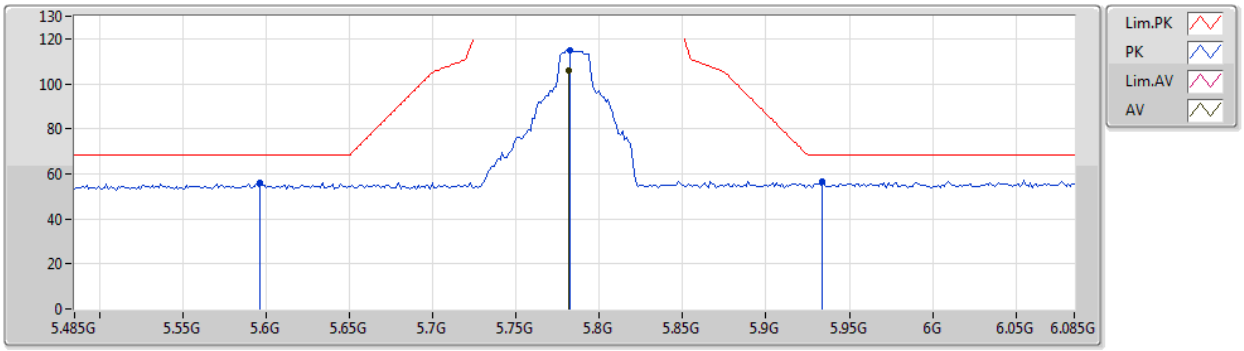



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 11.50164G | 39.83 | 54.00 | -14.17 | 24.05 | 3 | Horizontal | 203 | 1.50 | - | 39.60 | 10.69 | 34.51 |
| PK | 11.48616G | 52.71 | 74.00 | -21.29 | 36.91 | 3 | Horizontal | 203 | 1.50 | - | 39.62 | 10.68 | 34.50 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5785MHz_TX

23/07/2019

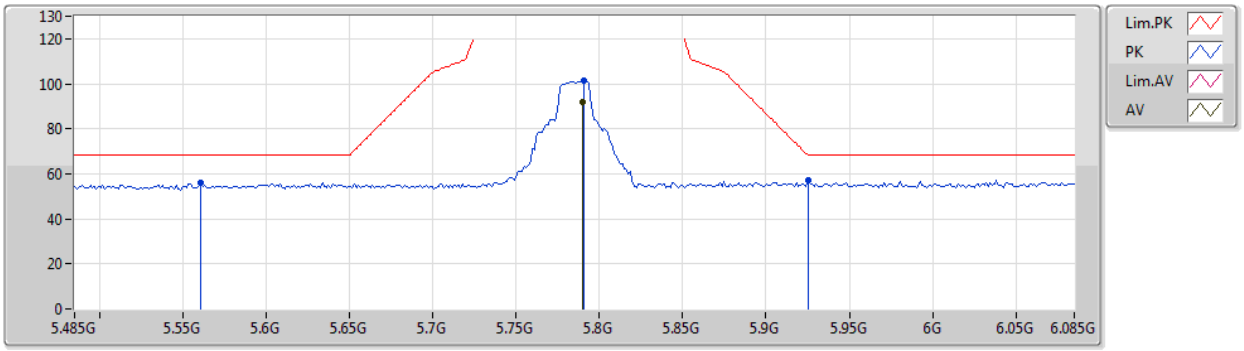



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.7814G | 105.73 | Inf | -Inf | 100.25 | 3 | Vertical | 300 | 2.40 | - | 32.29 | 7.66 | 34.47 |
| PK | 5.5966G | 56.15 | 68.20 | -12.05 | 51.00 | 3 | Vertical | 300 | 2.40 | - | 32.04 | 7.54 | 34.43 |
| PK | 5.7826G | 114.82 | Inf | -Inf | 109.33 | 3 | Vertical | 300 | 2.40 | - | 32.30 | 7.66 | 34.47 |
| PK | 5.9338G | 56.64 | 68.20 | -11.56 | 50.88 | 3 | Vertical | 300 | 2.40 | - | 32.51 | 7.76 | 34.51 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5785MHz_TX

23/07/2019

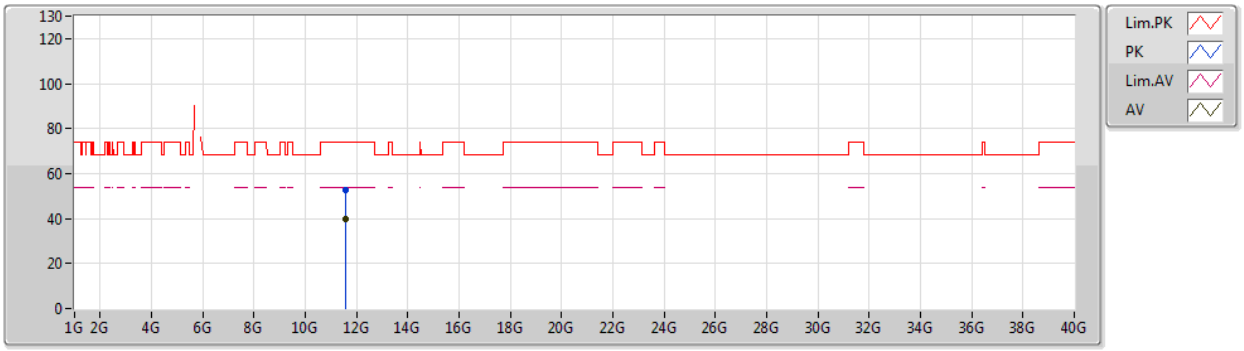



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.7898G | 92.06 | Inf | -Inf | 86.57 | 3 | Horizontal | 339 | 2.66 | - | 32.31 | 7.66 | 34.48 |
| PK | 5.5606G | 55.96 | 68.20 | -12.24 | 50.88 | 3 | Horizontal | 339 | 2.66 | - | 31.98 | 7.52 | 34.42 |
| PK | 5.791G | 101.22 | Inf | -Inf | 95.73 | 3 | Horizontal | 339 | 2.66 | - | 32.31 | 7.66 | 34.48 |
| PK | 5.9254G | 57.02 | 68.20 | -11.18 | 51.28 | 3 | Horizontal | 339 | 2.66 | - | 32.50 | 7.75 | 34.51 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5785MHz_TX

23/07/2019

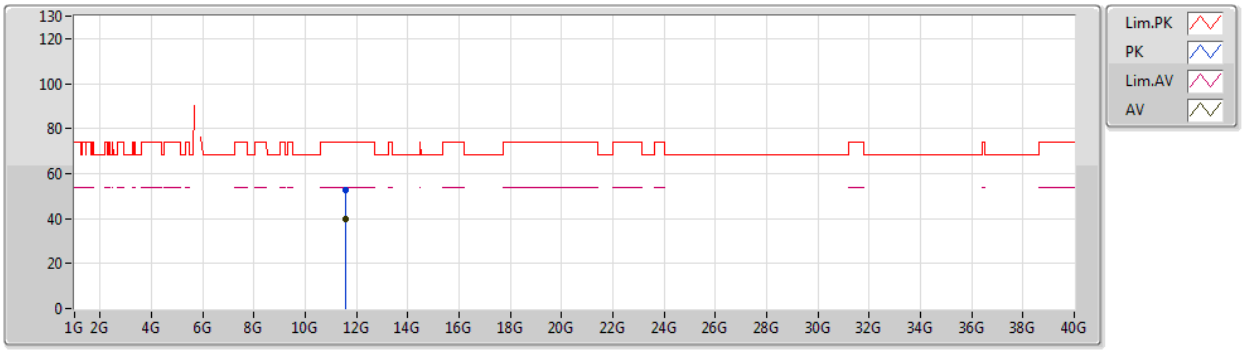



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 11.5823G | 39.92 | 54.00 | -14.08 | 24.22 | 3 | Vertical | 56 | 1.50 | - | 39.50 | 10.73 | 34.53 |
| PK | 11.57162G | 52.80 | 74.00 | -21.20 | 37.09 | 3 | Vertical | 56 | 1.50 | - | 39.51 | 10.72 | 34.52 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5785MHz_TX

23/07/2019

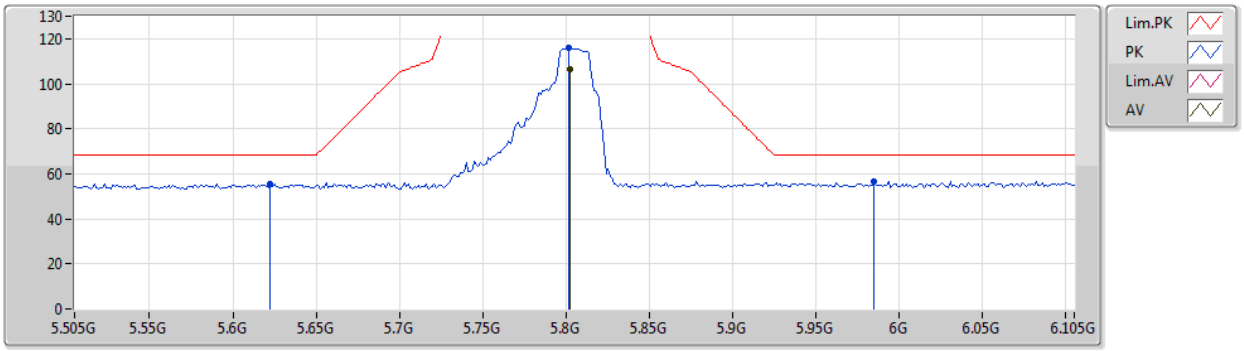



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 11.57924G | 40.00 | 54.00 | -14.00 | 24.30 | 3 | Horizontal | 82 | 2.91 | - | 39.50 | 10.73 | 34.53 |
| PK | 11.56376G | 52.70 | 74.00 | -21.30 | 36.98 | 3 | Horizontal | 82 | 2.91 | - | 39.52 | 10.72 | 34.52 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5805MHz_TX

23/07/2019

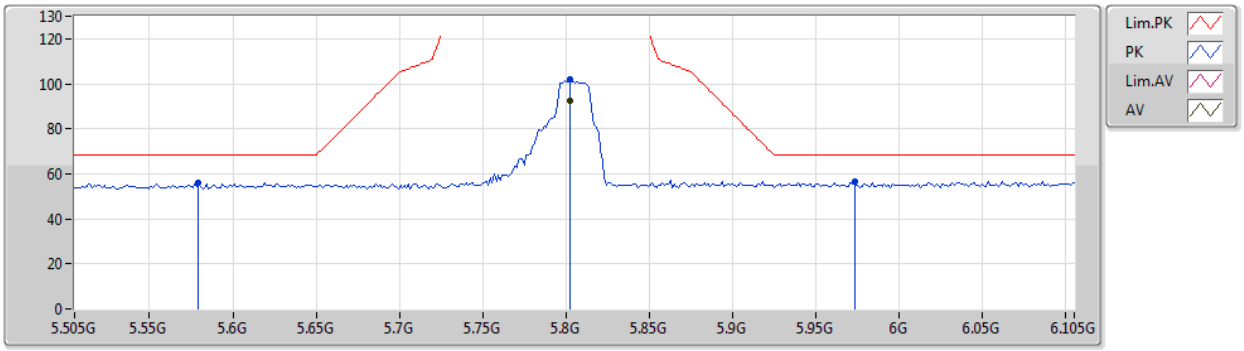



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.8026G | 106.46 | Inf | -Inf | 100.95 | 3 | Vertical | 300 | 2.23 | - | 32.32 | 7.67 | 34.48 |
| PK | 5.6226G | 55.52 | 68.20 | -12.68 | 50.33 | 3 | Vertical | 300 | 2.23 | - | 32.07 | 7.55 | 34.43 |
| PK | 5.8014G | 116.02 | Inf | -Inf | 110.51 | 3 | Vertical | 300 | 2.23 | - | 32.32 | 7.67 | 34.48 |
| PK | 5.985G | 56.67 | 68.20 | -11.53 | 50.82 | 3 | Vertical | 300 | 2.23 | - | 32.58 | 7.79 | 34.52 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5805MHz_TX

23/07/2019

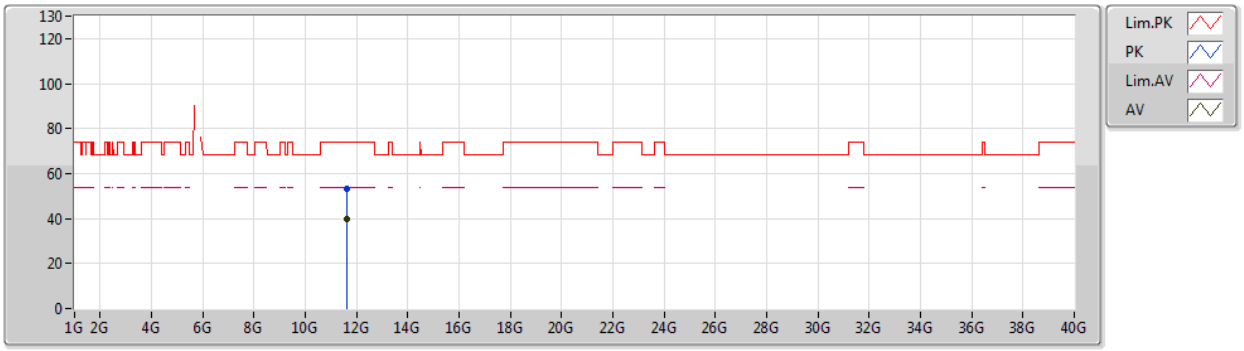



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.8026G | 92.32 | Inf | -Inf | 86.81 | 3 | Horizontal | 187 | 1.50 | - | 32.32 | 7.67 | 34.48 |
| PK | 5.5794G | 56.07 | 68.20 | -12.13 | 50.96 | 3 | Horizontal | 187 | 1.50 | - | 32.01 | 7.53 | 34.43 |
| PK | 5.8026G | 102.04 | Inf | -Inf | 96.53 | 3 | Horizontal | 187 | 1.50 | - | 32.32 | 7.67 | 34.48 |
| PK | 5.973G | 56.44 | 68.20 | -11.76 | 50.61 | 3 | Horizontal | 187 | 1.50 | - | 32.56 | 7.78 | 34.51 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5805MHz_TX

23/07/2019

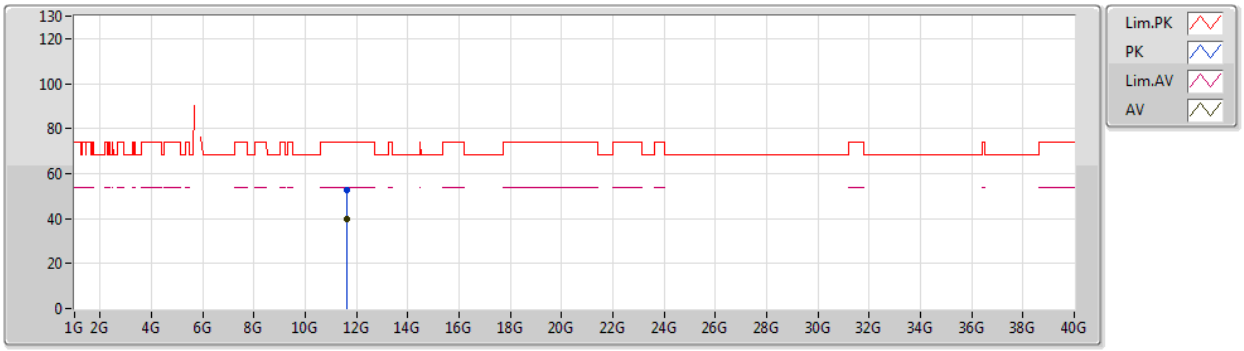



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 11.60588G | 39.65 | 54.00 | -14.35 | 23.97 | 3 | Vertical | 272 | 1.50 | - | 39.47 | 10.74 | 34.53 |
| PK | 11.61438G | 53.27 | 74.00 | -20.73 | 37.61 | 3 | Vertical | 272 | 1.50 | - | 39.46 | 10.74 | 34.54 |

## 802.11n HT20_Nss1,(MCS0)_1TX

## 5805MHz_TX

23/07/2019

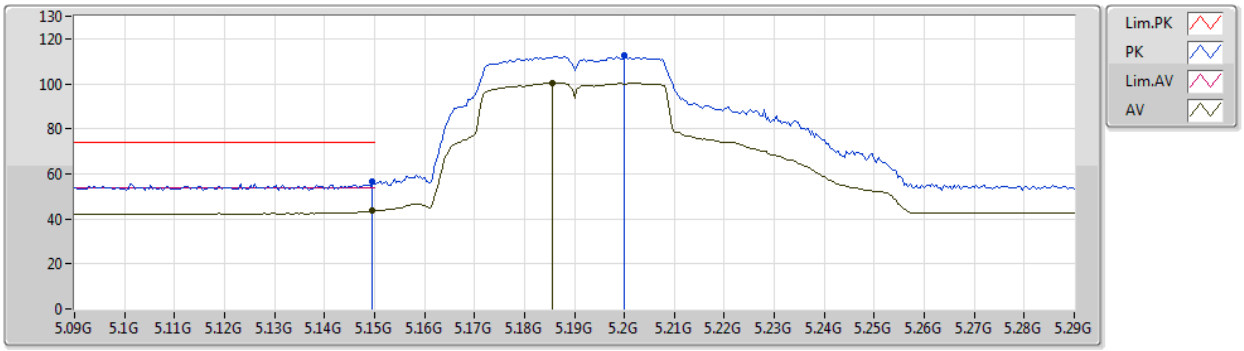



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 11.60606G | 39.92 | 54.00 | -14.08 | 24.24 | 3 | Horizontal | 175 | 2.74 | - | 39.47 | 10.74 | 34.53 |
| PK | 11.6113G | 52.75 | 74.00 | -21.25 | 37.08 | 3 | Horizontal | 175 | 2.74 | - | 39.47 | 10.74 | 34.54 |

## 802.11n HT40_Nss1,(MCS0)_1TX

## 5190MHz_TX

23/07/2019

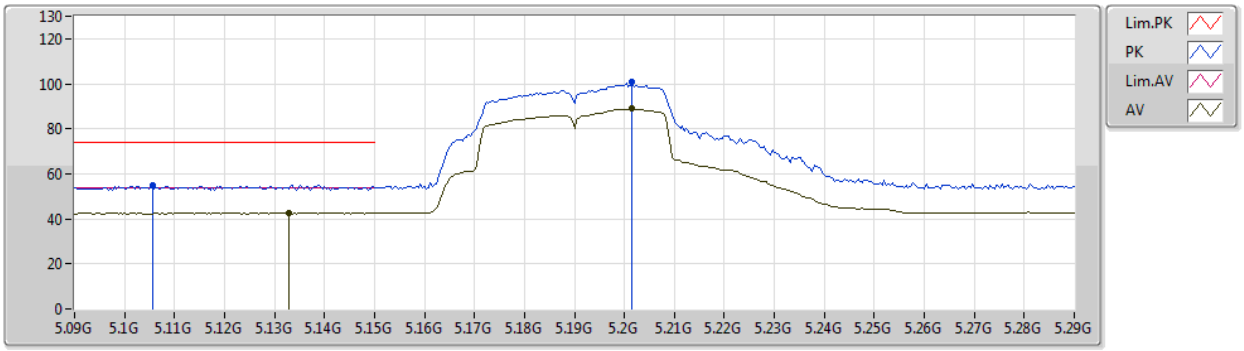



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.1496G | 43.61 | 54.00 | -10.39 | 39.24 | 3 | Vertical | 299 | 2.86 | - | 31.76 | 7.04 | 34.43 |
| AV | 5.1856G | 100.48 | Inf | -Inf | 96.05 | 3 | Vertical | 299 | 2.86 | - | 31.77 | 7.08 | 34.42 |
| PK | 5.1496G | 56.38 | 74.00 | -17.62 | 52.01 | 3 | Vertical | 299 | 2.86 | - | 31.76 | 7.04 | 34.43 |
| PK | 5.2G | 112.55 | Inf | -Inf | 108.09 | 3 | Vertical | 299 | 2.86 | - | 31.78 | 7.10 | 34.42 |

## 802.11n HT40_Nss1,(MCS0)_1TX

## 5190MHz_TX

23/07/2019

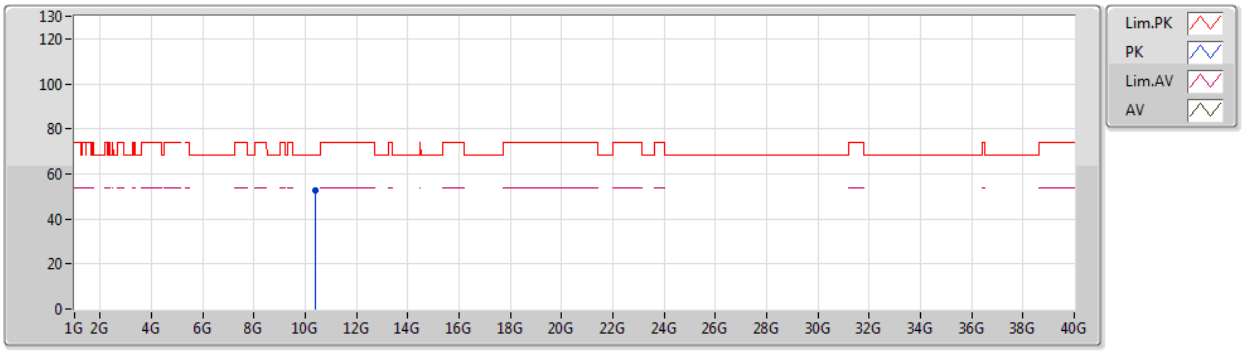



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.1328G | 42.58 | 54.00 | -11.42 | 38.25 | 3 | Horizontal | 185 | 1.85 | - | 31.75 | 7.01 | 34.43 |
| AV | 5.2016G | 88.89 | Inf | -Inf | 84.43 | 3 | Horizontal | 185 | 1.85 | - | 31.78 | 7.10 | 34.42 |
| PK | 5.1056G | 55.09 | 74.00 | -18.91 | 50.80 | 3 | Horizontal | 185 | 1.85 | - | 31.74 | 6.98 | 34.43 |
| PK | 5.2016G | 100.61 | Inf | -Inf | 96.15 | 3 | Horizontal | 185 | 1.85 | - | 31.78 | 7.10 | 34.42 |

## 802.11n HT40_Nss1,(MCS0)_1TX

## 5190MHz_TX

23/07/2019

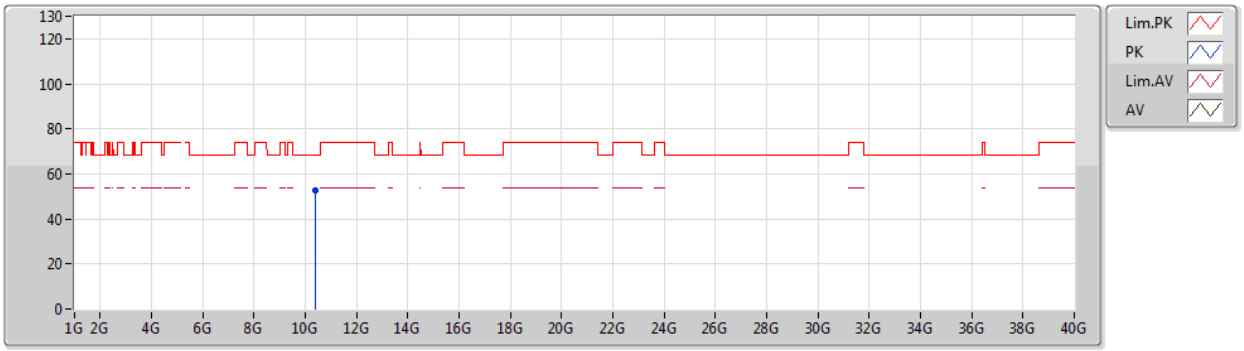



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.37896G | 52.77 | 68.20 | -15.43 | 37.94 | 3 | Vertical | 242 | 1.26 | - | 39.39 | 10.33 | 34.89 |

## 802.11n HT40_Nss1,(MCS0)_1TX

## 5190MHz_TX

23/07/2019

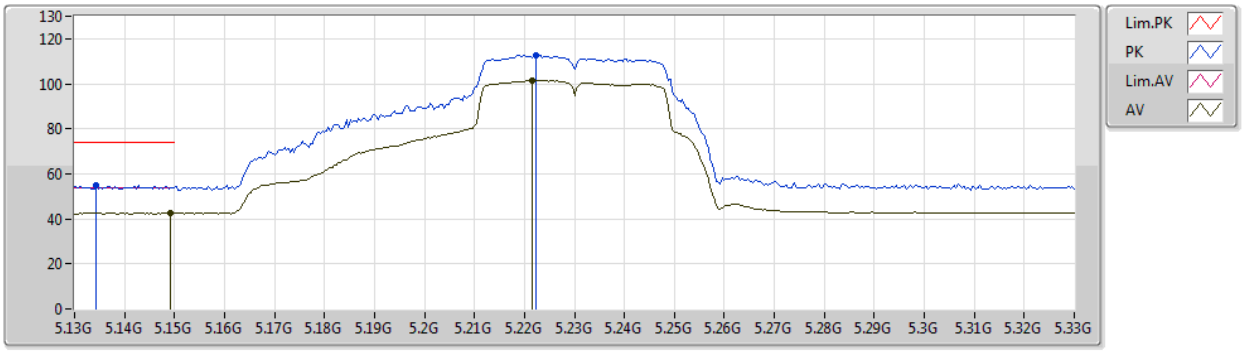



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.3926G | 52.72 | 68.20 | -15.48 | 37.85 | 3 | Horizontal | 50 | 2.19 | - | 39.41 | 10.33 | 34.87 |

## 802.11n HT40_Nss1,(MCS0)_1TX

## 5230MHz_TX

24/07/2019

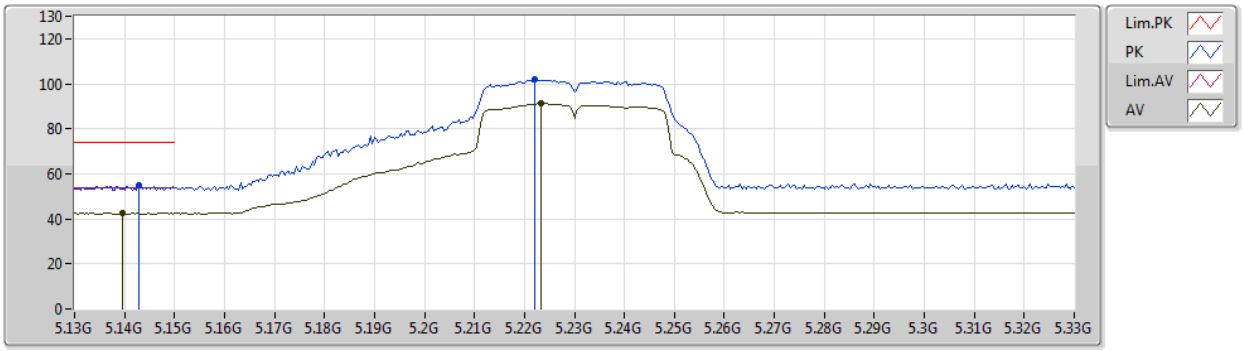



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.1492G | 42.43 | 54.00 | -11.57 | 38.06 | 3 | Vertical | 301 | 2.59 | - | 31.76 | 7.04 | 34.43 |
| AV | 5.2216G | 101.59 | Inf | -Inf | 97.09 | 3 | Vertical | 301 | 2.59 | - | 31.79 | 7.13 | 34.42 |
| PK | 5.1344G | 55.00 | 74.00 | -19.00 | 50.66 | 3 | Vertical | 301 | 2.59 | - | 31.75 | 7.02 | 34.43 |
| PK | 5.2224G | 112.71 | Inf | -Inf | 108.21 | 3 | Vertical | 301 | 2.59 | - | 31.79 | 7.13 | 34.42 |

## 802.11n HT40_Nss1,(MCS0)_1TX

## 5230MHz_TX

24/07/2019

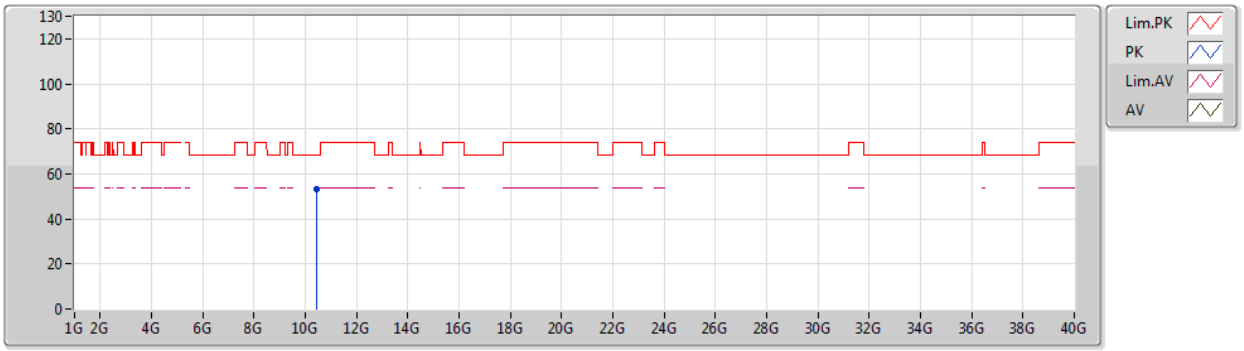



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.1396G | 42.53 | 54.00 | -11.47 | 38.18 | 3 | Horizontal | 253 | 1.65 | - | 31.76 | 7.02 | 34.43 |
| AV | 5.2232G | 91.15 | Inf | -Inf | 86.65 | 3 | Horizontal | 253 | 1.65 | - | 31.79 | 7.13 | 34.42 |
| PK | 5.1428G | 54.95 | 74.00 | -19.05 | 50.59 | 3 | Horizontal | 253 | 1.65 | - | 31.76 | 7.03 | 34.43 |
| PK | 5.222G | 101.90 | Inf | -Inf | 97.40 | 3 | Horizontal | 253 | 1.65 | - | 31.79 | 7.13 | 34.42 |

## 802.11n HT40_Nss1,(MCS0)_1TX

## 5230MHz_TX

24/07/2019

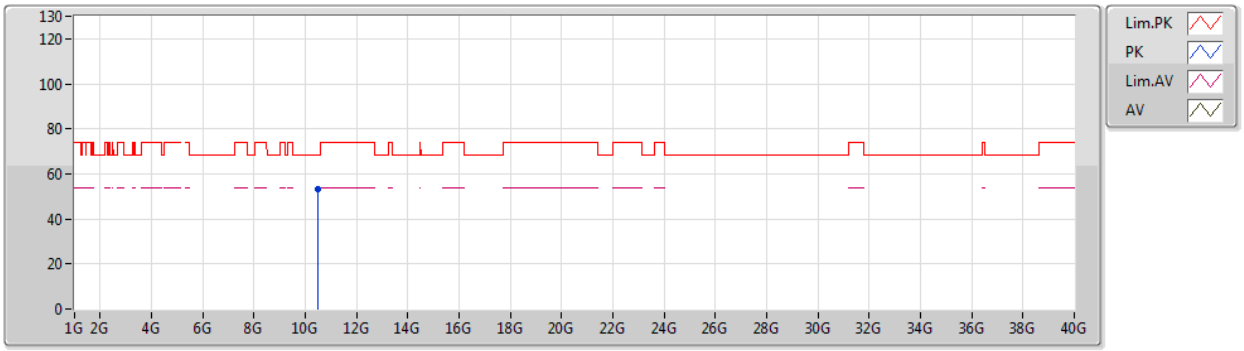



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.45202G | 53.41 | 68.20 | -14.79 | 38.40 | 3 | Vertical | 152 | 1.80 | - | 39.49 | 10.34 | 34.82 |

## 802.11n HT40_Nss1,(MCS0)_1TX

## 5230MHz_TX

24/07/2019

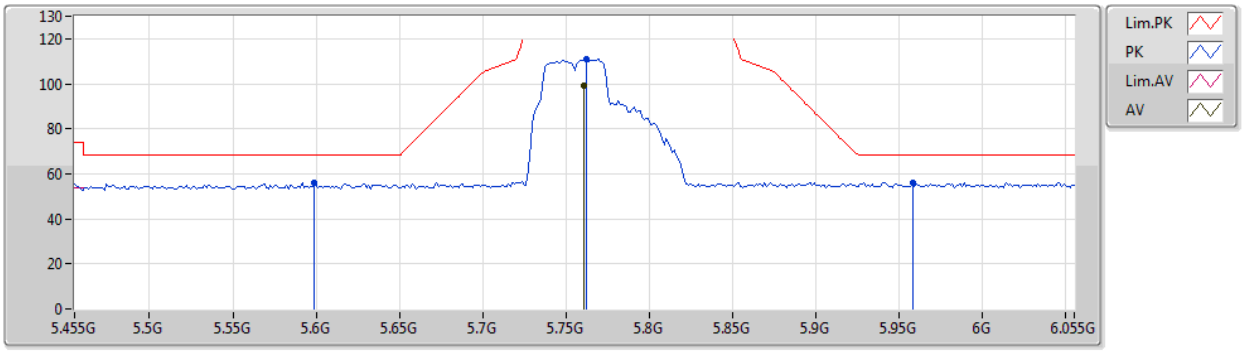



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.472G | 52.98 | 68.20 | -15.22 | 37.93 | 3 | Horizontal | 85 | 1.48 | - | 39.51 | 10.35 | 34.81 |

## 802.11n HT40_Nss1,(MCS0)_1TX

## 5755MHz_TX

24/07/2019

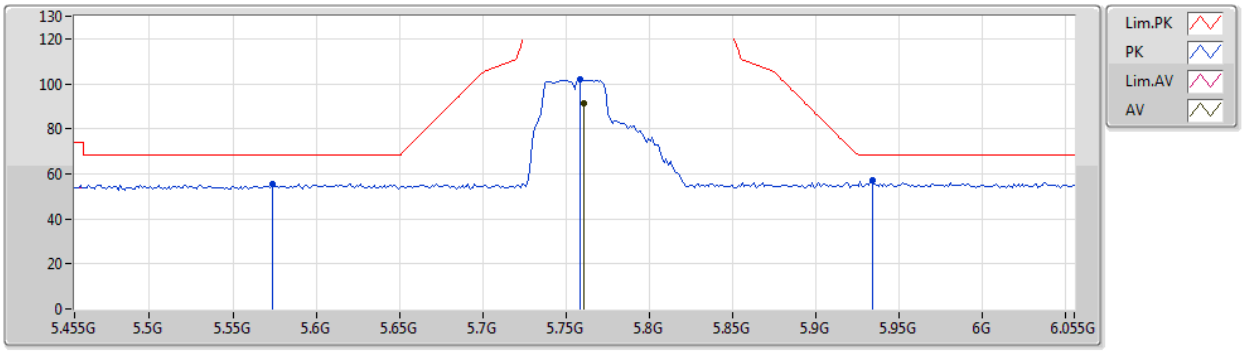



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.761G | 99.22 | Inf | -Inf | 93.78 | 3 | Vertical | 187 | 1.97 | - | 32.27 | 7.64 | 34.47 |
| PK | 5.599G | 56.24 | 68.20 | -11.96 | 51.09 | 3 | Vertical | 187 | 1.97 | - | 32.04 | 7.54 | 34.43 |
| PK | 5.7622G | 111.10 | Inf | -Inf | 105.66 | 3 | Vertical | 187 | 1.97 | - | 32.27 | 7.64 | 34.47 |
| PK | 5.9578G | 56.13 | 68.20 | -12.07 | 50.33 | 3 | Vertical | 187 | 1.97 | - | 32.54 | 7.77 | 34.51 |

## 802.11n HT40_Nss1,(MCS0)_1TX

## 5755MHz_TX

24/07/2019

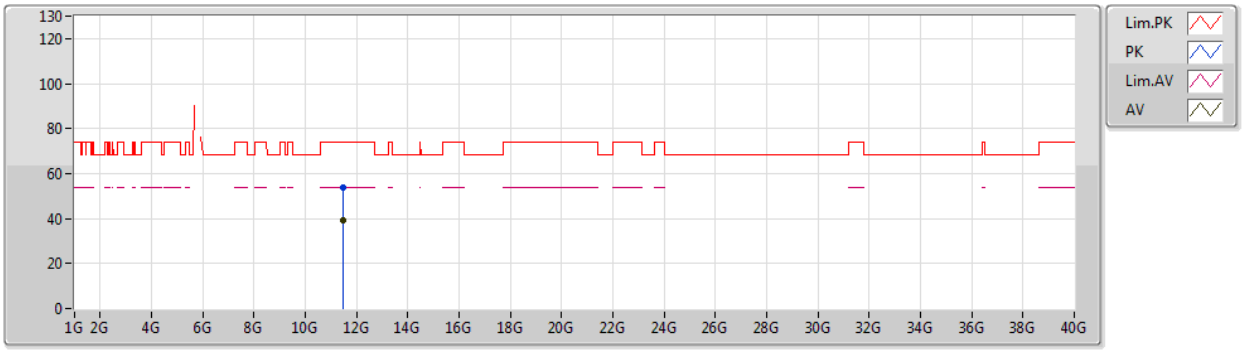



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.761G | 91.60 | Inf | -Inf | 86.16 | 3 | Horizontal | 256 | 1.56 | - | 32.27 | 7.64 | 34.47 |
| PK | 5.5738G | 55.73 | 68.20 | -12.47 | 50.63 | 3 | Horizontal | 256 | 1.56 | - | 32.00 | 7.52 | 34.42 |
| PK | 5.7586G | 101.82 | Inf | -Inf | 96.39 | 3 | Horizontal | 256 | 1.56 | - | 32.26 | 7.64 | 34.47 |
| PK | 5.9338G | 57.28 | 68.20 | -10.92 | 51.52 | 3 | Horizontal | 256 | 1.56 | - | 32.51 | 7.76 | 34.51 |

## 802.11n HT40_Nss1,(MCS0)_1TX

## 5755MHz_TX

24/07/2019

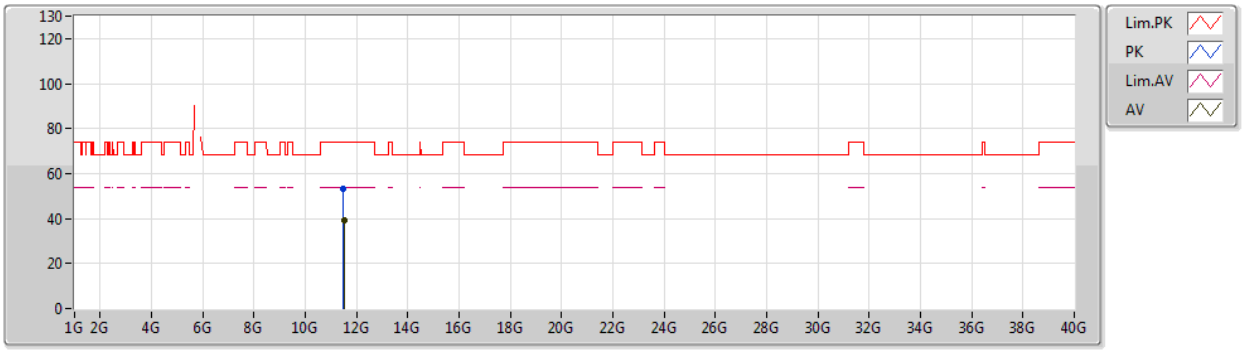



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 11.49662G | 39.44 | 54.00 | -14.56 | 23.66 | 3 | Vertical | 57 | 1.50 | - | 39.60 | 10.68 | 34.50 |
| PK | 11.49812G | 54.02 | 74.00 | -19.98 | 38.23 | 3 | Vertical | 57 | 1.50 | - | 39.60 | 10.69 | 34.50 |

## 802.11n HT40_Nss1,(MCS0)_1TX

## 5755MHz_TX

24/07/2019

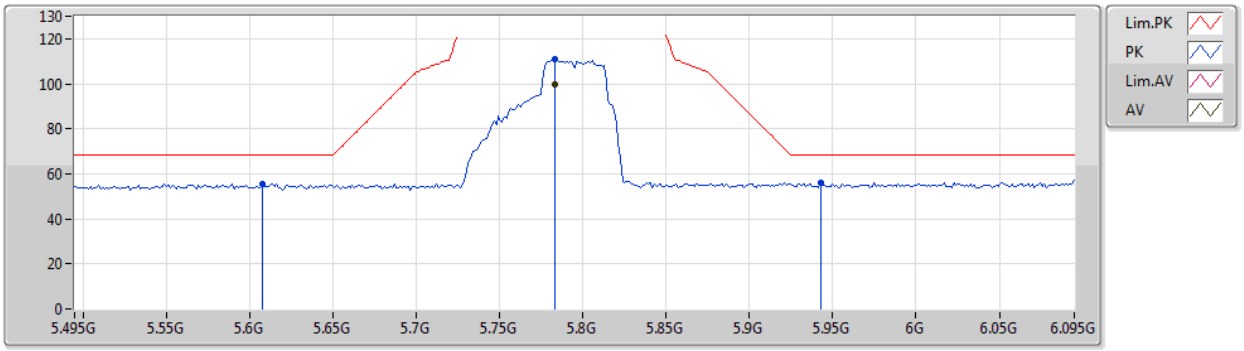



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 11.51936G | 39.40 | 54.00 | -14.60 | 23.63 | 3 | Horizontal | 54 | 1.37 | - | 39.58 | 10.70 | 34.51 |
| PK | 11.49632G | 53.22 | 74.00 | -20.78 | 37.44 | 3 | Horizontal | 54 | 1.37 | - | 39.60 | 10.68 | 34.50 |

## 802.11n HT40_Nss1,(MCS0)_1TX

## 5795MHz_TX

24/07/2019

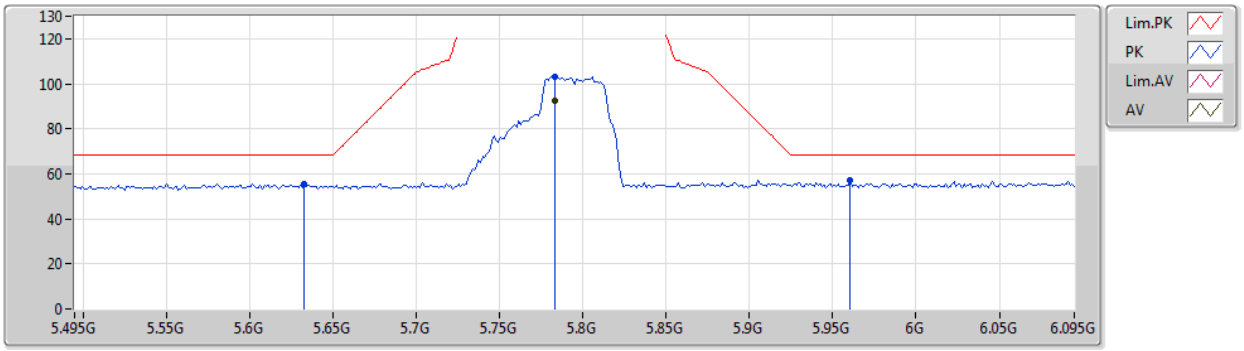



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.783G | 99.78 | Inf | -Inf | 94.29 | 3 | Vertical | 187 | 2.01 | - | 32.30 | 7.66 | 34.47 |
| PK | 5.6078G | 55.67 | 68.20 | -12.53 | 50.50 | 3 | Vertical | 187 | 2.01 | - | 32.05 | 7.55 | 34.43 |
| PK | 5.783G | 111.15 | Inf | -Inf | 105.66 | 3 | Vertical | 187 | 2.01 | - | 32.30 | 7.66 | 34.47 |
| PK | 5.9426G | 55.93 | 68.20 | -12.27 | 50.16 | 3 | Vertical | 187 | 2.01 | - | 32.52 | 7.76 | 34.51 |

## 802.11n HT40_Nss1,(MCS0)_1TX

## 5795MHz_TX

24/07/2019

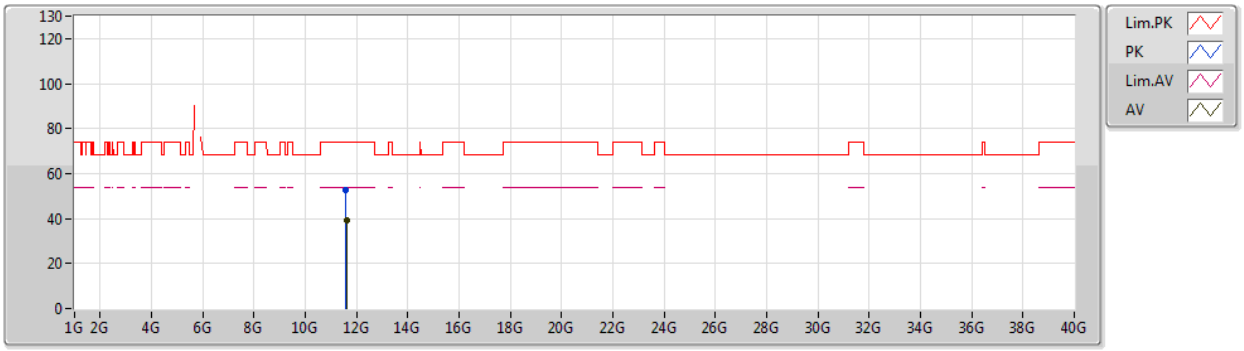



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 5.783G | 92.35 | Inf | -Inf | 86.86 | 3 | Horizontal | 255 | 1.54 | - | 32.30 | 7.66 | 34.47 |
| PK | 5.633G | 55.59 | 68.20 | -12.61 | 50.38 | 3 | Horizontal | 255 | 1.54 | - | 32.09 | 7.56 | 34.44 |
| PK | 5.783G | 103.32 | Inf | -Inf | 97.83 | 3 | Horizontal | 255 | 1.54 | - | 32.30 | 7.66 | 34.47 |
| PK | 5.9606G | 57.05 | 68.20 | -11.15 | 51.25 | 3 | Horizontal | 255 | 1.54 | - | 32.54 | 7.77 | 34.51 |

## 802.11n HT40_Nss1,(MCS0)_1TX

## 5795MHz_TX

24/07/2019

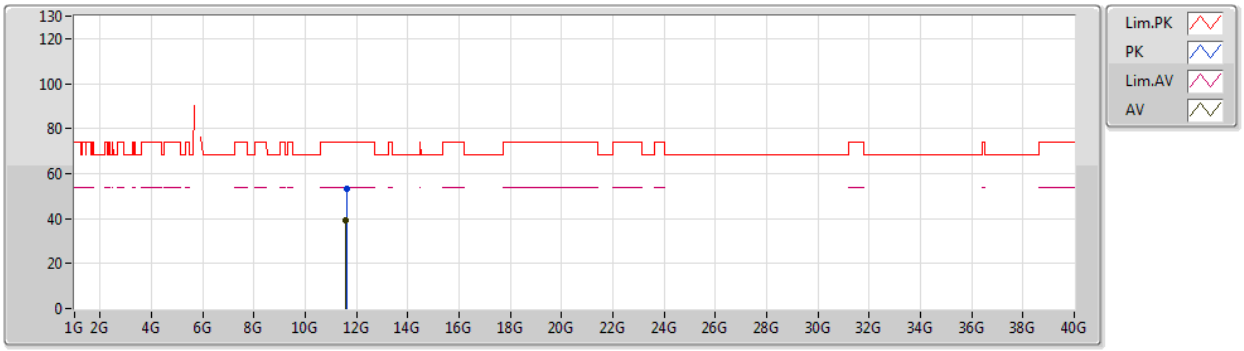



| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 11.60326G | 39.37 | 54.00 | -14.63 | 23.68 | 3 | Vertical | 30 | 2.99 | - | 39.48 | 10.74 | 34.53 |
| PK | 11.58184G | 52.44 | 74.00 | -21.56 | 36.74 | 3 | Vertical | 30 | 2.99 | - | 39.50 | 10.73 | 34.53 |

## 802.11n HT40_Nss1,(MCS0)_1TX

## 5795MHz_TX

24/07/2019




| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| AV | 11.5948G | 39.33 | 54.00 | -14.67 | 23.64 | 3 | Horizontal | 150 | 1.99 | - | 39.49 | 10.73 | 34.53 |
| PK | 11.59972G | 53.46 | 74.00 | -20.54 | 37.77 | 3 | Horizontal | 150 | 1.99 | - | 39.48 | 10.74 | 34.53 |