



AFC DUT TEST HARNESS REPORT

FCC ID : LDKVEHVR2777
Equipment : Cisco Catalyst 9136I Access Point
Brand Name : Cisco
Model Name : C9136I-B
Applicant : Cisco Systems Inc
125 West Tasman Drive , San Jose, CA 95134, USA.
Manufacturer : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134, USA.
Standard : 47 CFR FCC Part 15.407

The product was received on Sep. 12, 2023, and testing was started from Nov. 08, 2023 and completed on Nov. 08, 2023. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in AFC Device (AFC DUT) Compliance Test Plan Version 1.5 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

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Appendix A. Tools Report

Appendix B. DUT Spectrum Inquiry Request/Response Logs

Appendix C. RF Measurement Plots

Photographs of EUT v01



Summary of Test Result

| Report Clause | Ref Std. Clause | Test Case Name | Result (PASS/FAIL) | Remark |
|--|-----------------|---|--------------------|--------|
| AFC capability - Inquired Frequency | | | | |
| Test Group: Inquired Frequency - Always | | | | |
| 3.1 | 3.1.4 | CT_AFC_SP_AP_AFCDRSA31_Frequency_20MHz_10611_1 | N/A | - |
| 3.1 | 3.1.4 | CT_AFC_SP_AP_AFCDRSA31_Frequency_40MHz_10612_1 | N/A | - |
| 3.1 | 3.1.4 | CT_AFC_SP_AP_AFCDRSA31_Frequency_80MHz_10613_1 | N/A | - |
| 3.1 | 3.1.4 | CT_AFC_SP_AP_AFCDRSA31_Frequency_160MHz_10614_1 | N/A | - |
| 3.2 | 3.2.4 | CT_AFC_SP_AP_AFCDUSA32_Frequency_10615_1 | N/A | - |
| 3.3 | 3.3.4 | CT_AFC_SP_AP_AFCDSAU33_Frequency_10616_1 | N/A | - |
| 3.4 | 3.4.4 | CT_AFC_SP_AP_AFCDUAU34_Frequency_10617_1 | N/A | - |
| AFC capability - Inquired Channel | | | | |
| Test Group: Inquired Channel - Always | | | | |
| 3.1 | 3.1.4 | CT_AFC_SP_AP_AFCDRSA31_Channel_20MHz_10618_1 | PASS | - |
| 3.1 | 3.1.4 | CT_AFC_SP_AP_AFCDRSA31_Channel_40MHz_10619_1 | PASS | - |
| 3.1 | 3.1.4 | CT_AFC_SP_AP_AFCDRSA31_Channel_80MHz_10620_1 | PASS | - |
| 3.1 | 3.1.4 | CT_AFC_SP_AP_AFCDRSA31_Channel_160MHz_10621_1 | PASS | - |
| 3.2 | 3.2.4 | CT_AFC_SP_AP_AFCDUSA32_Channel_10622_1 | PASS | - |
| 3.3 | 3.3.4 | CT_AFC_SP_AP_AFCDSAU33_Channel_10623_1 | PASS | - |
| 3.4 | 3.4.4 | CT_AFC_SP_AP_AFCDUAU34_Channel_10624_1 | PASS | - |
| AFC capability - Inquired Frequency & Channel | | | | |
| Test Group: Inquired Frequency and Channel - Always | | | | |
| 3.1 | 3.1.4 | CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_20MHz_10625_1 | N/A | - |
| 3.1 | 3.1.4 | CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_40MHz_10626_1 | N/A | - |
| 3.1 | 3.1.4 | CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_80MHz_10627_1 | N/A | - |
| 3.1 | 3.1.4 | CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_160MHz_10628_1 | N/A | - |
| 3.2 | 3.2.4 | CT_AFC_SP_AP_AFCDUSA32_FrequencyChannel_10629_1 | N/A | - |
| 3.3 | 3.3.4 | CT_AFC_SP_AP_AFCDSAU33_FrequencyChannel_10630_1 | N/A | - |
| 3.4 | 3.4.4 | CT_AFC_SP_AP_AFCDUAU34_FrequencyChannel_10631_1 | N/A | - |
| AFC capability - Server Validation – Mandatory | | | | |
| Test Group: Server Validation - Always | | | | |
| 3.5 | 3.5.4 | CT_AFC_ServerValidation_AP_AFCDUSV35_NonMatchSAN_10632_1 | PASS | - |
| 3.5 | 3.5.4 | CT_AFC_ServerValidation_AP_AFCDUSV35_DifferentRootCA_10633_1 | PASS | - |
| 3.5 | 3.5.4 | CT_AFC_ServerValidation_AP_AFCDUSV35_MatchSuffixSAN_10634_1 | PASS | - |
| 3.5 | 3.5.4 | CT_AFC_ServerValidation_AP_AFCDUSV35_ServerCertRevoked_10635_1 | PASS | - |
| 3.5 | 3.5.4 | CT_AFC_ServerValidation_AP_AFCDUSV35_OCSPStaplingDisabled_10636_1 | PASS | - |
| 3.5 | 3.5.4 | CT_AFC_ServerValidation_AP_AFCDUSV35_StapledOCSPRespExpired_10637_1 | PASS | - |
| 3.5 | 3.5.4 | CT_AFC_ServerValidation_AP_AFCDUSV35_TLSCipherSuiteENULL_10638_1 | PASS | - |
| 3.5 | 3.5.4 | CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1 | PASS | - |



Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturee who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sam Chen

Report Producer: Sophia Shiung



1 General Description

1.1 Product Feature of Equipment Under Test

| Product Feature of Equipment Under Test | |
|---|---|
| Power Type | From PoE |
| EUT Type | <input checked="" type="checkbox"/> Standard Power Access Point with Proxy <input type="checkbox"/> Standard Power Access Point without Proxy <input type="checkbox"/> Fixed Client with Proxy <input type="checkbox"/> Fixed Client without Proxy |
| Condition of EUT | <input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor |
| Professional Installation | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Firmware Version | 17.13.1 |
| Software Version | 17.13.1 |
| Hardware Version | V03 |
| Proxy Firmware Version | 17.13.1 |
| Proxy Software Version | 17.13.1 |
| Proxy Hardware Version | 01 |

Note: The above information was declared by manufacturer.

1.2 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: 180526-13.

Below is the table for the change of the product with respect to the original one.

| Modifications | Performance Checking |
|--|----------------------|
| Adding Standard Power mode for the EUT | AFC DUT Test Harness |

1.3 Accessories

| Accessories | | | |
|----------------|------------|------------|---|
| Equipment Name | Brand Name | Model Name | Rating |
| PoE | DELTA | ADH-65AR B | INPUT: 100-240V ~ 2.0A, 50-60Hz OUTPUT: 56.0V, 1.161A, 65.1W |



1.4 Support Equipment

| Support Equipment | | | | |
|-------------------|-------------|------------|--------------|------------|
| No. | Equipment | Brand Name | Model Name | FCC ID |
| A | Notebook | DELL | E4300 | N/A |
| B | Notebook | DELL | E4300 | N/A |
| C | WLAN module | Intel | AX210NGW | PD9AX210NG |
| D | Notebook | DELL | E4300 | N/A |
| E | Proxy | Cisco | C9800-L-C-K9 | N/A |

1.5 Applicable Standards

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

- ♦ 47 CFR FCC Part 15.407

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

- ♦ AFC Device (AFC DUT) Compliance Test Plan Version 1.5
- ♦ FCC KDB 987594 D05 v01r01

1.6 Testing Location

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

| Test Condition | Test Site No. | Test Engineer | Test Environment (°C / %) | Test Date |
|----------------|---------------|---------------|---------------------------|---------------|
| RF Conducted | TH01-CB | Caster Chang | 23.8~24.6 / 53~59 | Nov. 08, 2023 |



2 Measurement Environment

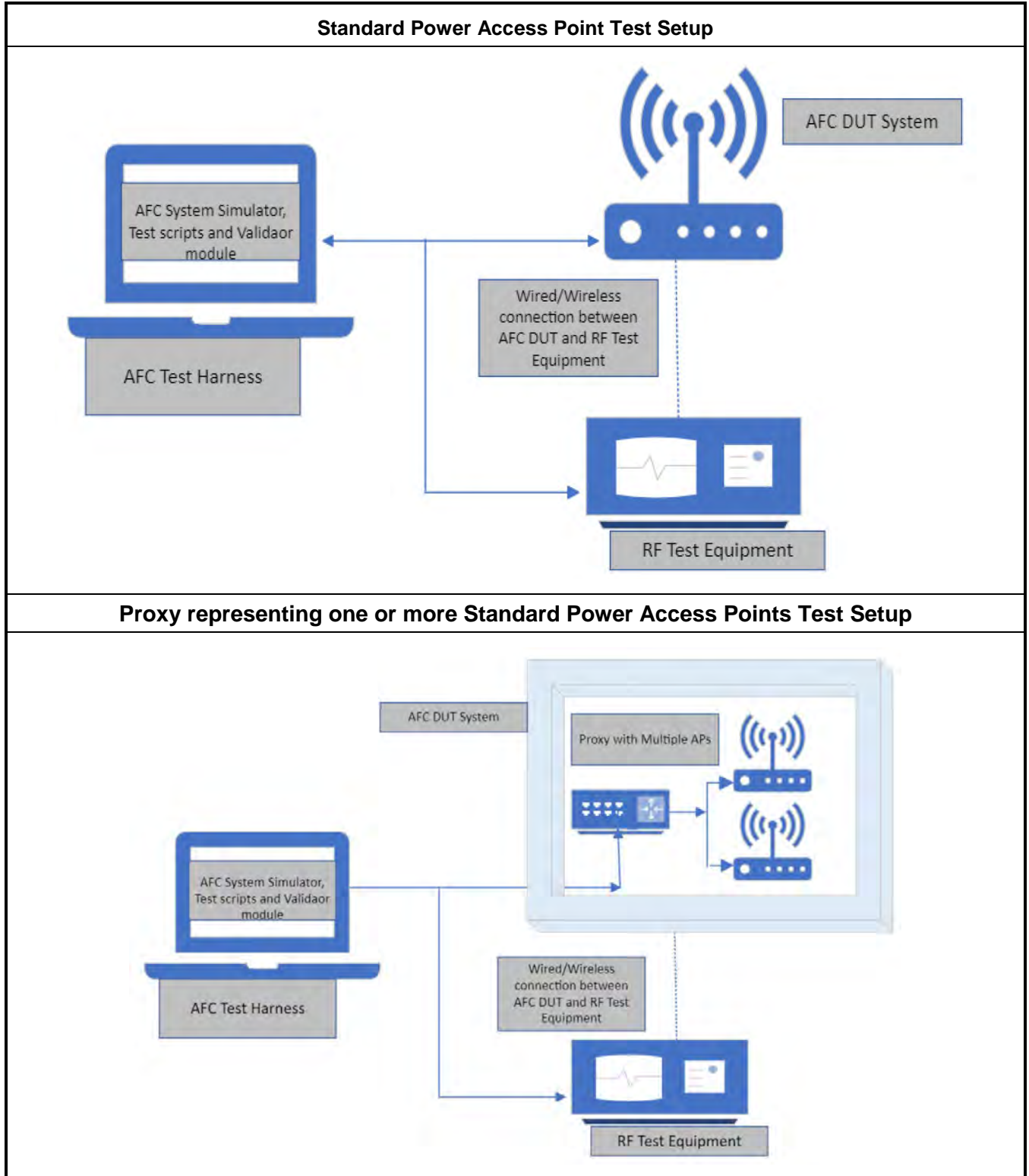
| Measurement Environment Information | |
|-------------------------------------|------------|
| AFC DUT Test Harness version | 2.0.65.148 |

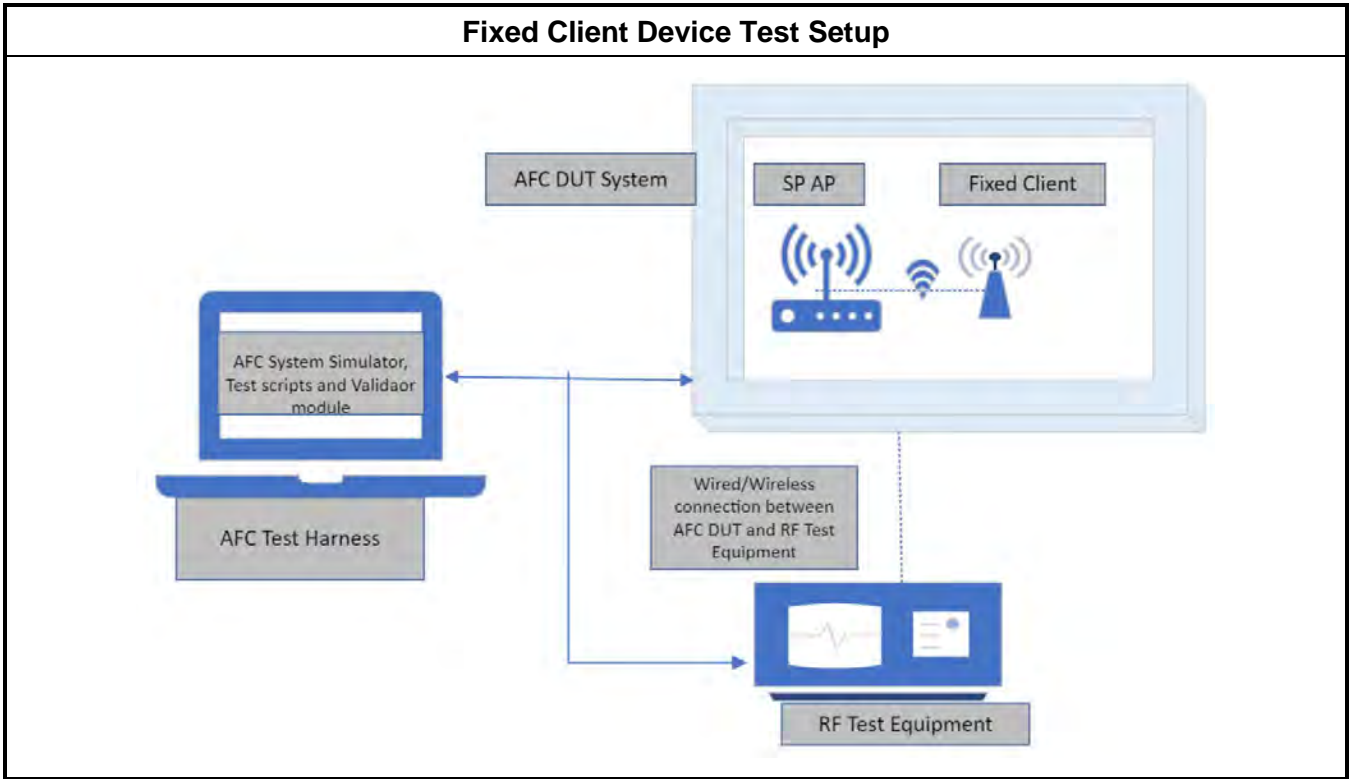
2.1 AFCD General Capabilities Declaration

| Item | Question | Vendor Response |
|------|---|------------------------------|
| 1 | AFC DUT Type | Standard Power AP with Proxy |
| 2 | Does the AFC DUT supports sending an Available Spectrum Inquiry Request based on the inquired Frequency Range field? | No |
| 3 | Does the AFC DUT supports sending an Available Spectrum Inquiry Request based on the inquired Channels fields? | Yes |
| 4 | If the Answer to Items 2 and 3 is "Yes", what is AFC DUT's default inquiry type? | - |
| 5 | Does the AFC DUT need to be supplied with BSS configuration parameters? | No |
| 6 | Does the AFC DUT manufacturer attest to AFC DUT compliance with rules for LPI operation? | Yes |
| 7 | Does the AFC DUT need to be supplied with mandatory registration information to formulate an Available Spectrum Inquiry Request | No |
| 8 | If the Answer to Item 7 is "Yes". What is the geographic Supported by the AFC DUT? | - |
| 9 | Does the AFC DUT supports 160 MHz channel width operation? | Yes |
| 10 | Which method does AFC DUT acting as a Fixed Client uses for sending an Available Spectrum Inquiry Request? | - |

Note: The above information was declared by manufacturer.

2.2 Test Configuration







3 Protocol Test Results

3.1 Successful Registration and Spectrum Access Request

3.1.1 Test Procedure

| Step | Description |
|------|---|
| 1 | If the AFC DUT is Standard Power Access Point, go to Step 2, else go to Step 12 |
| 2 | AFC DUT set to Initial Pre-test State. If needed (see Table 5 declaration), configure the AFC DUT with BSS parameters per Table 9 and a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate. Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request. |
| 3 | AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquired Frequency Range and/or the inquired Channels fields*. |
| 4 | AFC DUT Test Harness validates the presence of mandatory registration information |
| 5 | AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields. |
| 6 | Throughout Step 1 to Step 4, RF Test Equipment monitors the output of the AFC DUT to confirm that the AFC DUT does not transmit: <ul style="list-style-type: none"> In the band if the AFC DUT supports only SP operation Or <ul style="list-style-type: none"> Above LPI limits for AFC DUT whose manufacturer attests to its compliance with rules for LPI operation Wait for 60 seconds RF Test Equipment monitors any transmission by the AFC DUT conforms to the following: <ul style="list-style-type: none"> For SP only operation, AFC DUT conforms to the conditions contained in the Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies. For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, AFC DUT transmit power in the band is less than CEILING [LPI limits, SP limits contained in the Available Spectrum Inquiry Response] and does not exceed emissions limits in adjacent frequencies. |
| 7 | Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request. |
| 8 | AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*. |
| 9 | AFC DUT Test Harness validates the presence of mandatory registration information |
| 10 | AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields which are significantly different from Step 5. |
| 11 | Wait for 5 minutes (configurable) RF Test Equipment monitors any transmission by the AFC DUT conforms to the following: <ul style="list-style-type: none"> For SP only operation, AFC DUT conforms to the conditions contained in the latest Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies. For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, AFC DUT transmit power in the band is less than CEILING [LPI limits, SP limits contained in the latest Available Spectrum Inquiry Response] and does not exceed emissions limits in adjacent frequencies. |
| 12 | If the AFC DUT is Fixed Client, go to Step 13 else Stop the test |
| 13 | The AFC DUT set to Initial Pre-test State. |
| 14 | If needed (see Table 5 declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate. Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request using either In-band or Out-of-band methods. |
| 15 | AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields* |
| 16 | AFC DUT Test Harness validates the presence of mandatory registration information |
| 17 | AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields. |



| | |
|----|---|
| 18 | If AFC DUT used Out-of-band method, initiate connection procedure between AFC DUT and SP Access Point by following instructions provided by the AFC DUT Vendor |
| 19 | Wait for 60 seconds RF Test Equipment monitors any transmission by the AFC DUT conforms to the conditions contained in the Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies |
| 20 | Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request using either In-band or Out-of-band methods |
| 21 | AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields* |
| 22 | AFC DUT Test Harness validates the presence of mandatory registration information |
| 23 | AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields which are significantly different from Step 17. |
| 24 | If AFC DUT used Out-of-band method, initiate connection procedure between AFC DUT and SP Access Point by following instructions provided by the AFC DUT Vendor |
| 25 | Wait for 60 seconds (configurable) RF Test Equipment monitors any transmission by the AFC DUT conforms to the conditions contained in the latest Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies |

3.1.2 Test Result

Refer as Appendix A~C



3.2 Unsuccessful Spectrum Access Request

3.2.1 Test Procedure

| Step | Description |
|------|---|
| 1 | If the AFC DUT is Standard Power Access Point, go to Step 2, else go to Step 7 |
| 2 | AFC DUT set to Initial Pre-test State. If needed (see Table 5 declaration), configure the AFC DUT with BSS parameters per Table 9 and a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate. Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request. |
| 3 | AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*. |
| 4 | AFC DUT Test Harness validates mandatory registration information. |
| 5 | AFC DUT Test Harness sends an Available Spectrum Inquiry Response indicating that no frequency ranges and/or channels are available. |
| 6 | Throughout Step 2 to Step 5 and subsequent to Step 5, RF Test Equipment monitors the output of the AFC DUT to confirm the following: <ul style="list-style-type: none">• For SP only operation, AFC DUT does not transmit in the band.• For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, the AFC DUT does not transmit above LPI limits. |
| 7 | If the AFC DUT is Fixed Client, go to Step 8 else Stop the test |
| 8 | The AFC DUT set to Initial Pre-test State. |
| 9 | If needed (see Table 5 declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID or IC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate. Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request. |
| 10 | AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*. |
| 11 | AFC DUT Test Harness validates mandatory registration information. |
| 12 | AFC DUT Test Harness sends an Available Spectrum Inquiry Response indicating that no frequency ranges and/or channels are available using either In-band or Out-of-band methods. |
| 13 | If AFC DUT used Out-of-band method, initiate connection procedure between Fixed Client and SP Access Point by following instructions provided by the AFC DUT Vendor |
| 13 | Wait for 60 seconds RF Test Equipment monitors that the AFC DUT does not transmit above maximum transmit power limits advertised by the Standard Power Access Point for Standard Client Devices in the channel. |

3.2.2 Test Result

Refer as Appendix A-C



3.3 Successful Spectrum Access Update

3.3.1 Test Procedure

| Step | Description |
|------|--|
| 1 | If the AFC DUT is Standard Power Access Point, go to Step 2, else go to Step 12 |
| 2 | AFC DUT set to Initial Pre-test State. If needed (see Table 5 declaration), configure the DUT with BSS parameters per Table 9 and a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate. Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request. |
| 3 | AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*. |
| 4 | AFC DUT Harness validates mandatory registration information. |
| 5 | AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields. |
| 6 | Throughout the preceding steps, RF Test Equipment monitors the output of the AFC DUT to confirm that the AFC DUT does not transmit: <ul style="list-style-type: none"> In the band if the AFC DUT supports only SP operation Or <ul style="list-style-type: none"> Above LPI limits for AFC DUT whose manufacturer attests to its compliance with rules for LPI operation Wait for 60 seconds RF Test Equipment monitors any transmission by the AFC DUT conforms to the following: <ul style="list-style-type: none"> For SP only operation, AFC DUT conforms to the conditions contained in the Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies. For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, AFC DUT transmit power in the band is less than CEILING [LPI limits, SP limits contained in the Available Spectrum Inquiry Response] and does not exceed emissions limits in adjacent frequencies. |
| 7 | AFC DUT is power cycled. If needed (see Table 5 declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID), new geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate. |
| 8 | Wait for 60 seconds If the AFC DUT does not send an Available Spectrum Inquiry Request, RF Test Equipment monitors the output of the AFC DUT to verify the following and STOP the test <ul style="list-style-type: none"> For SP only operation, AFC DUT does not transmit in the band. For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, the AFC DUT does not transmit above LPI limits. If the AFC DUT sends an Available Spectrum Inquiry Request, then CONTINUE with Step 9 |
| 9 | AFC DUT Test Harness evaluates validity of mandatory registration information |
| 10 | AFC DUT Test Harness waits for 60 seconds before sending an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields which are significantly different from Step 5. <ul style="list-style-type: none"> During the 60 seconds wait time: <ul style="list-style-type: none"> For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, RF Test Equipment monitors the output of the AFC DUT to confirm that AFC DUT does not transmit above LPI threshold limits For SP only operation, RF Test Equipment monitors the output of the AFC DUT to confirm that AFC DUT doesn't transmit in the band |
| 11 | Wait for 60 seconds RF Test Equipment monitors any transmission by the AFC DUT conforms to the following: <ul style="list-style-type: none"> For SP only operation, AFC DUT conforms to the conditions contained in the Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies. For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, AFC DUT transmit power in the band is less than CEILING [LPI limits, SP limits contained in the Available Spectrum Inquiry Response] and does not exceed emissions limits in adjacent frequencies. |
| 12 | If the AFC DUT is Fixed Client, go to Step 13 else Stop the test |
| 13 | The AFC DUT set to Initial Pre-test State. |



| | |
|----|--|
| 14 | If needed (see Table 5 declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate. Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request using either In-band or Out-of- band methods. |
| 15 | AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields* |
| 16 | AFC DUT Test Harness validates the presence of mandatory registration information |
| 17 | AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields. |
| 18 | If AFC DUT used Out-of-band method, initiate connection procedure between AFC DUT and SP Access Point by following instructions provided by the AFC DUT Vendor |
| 19 | Wait for 60 seconds RF Test Equipment monitors any transmission by the AFC DUT conforms to the conditions contained in the Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies |
| 20 | AFC DUT is power cycled. If needed (see Table 5 declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID), new geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate |
| 21 | Wait for 60 seconds If the AFC DUT does not send an Available Spectrum Inquiry Request, RF Test Equipment monitors the output of the AFC DUT to verify the AFC DUT does not transmit above maximum transmit power limits advertised by the Standard Power Access Point for Standard Client Devices in the channel and STOP the test. If the AFC DUT sends an Available Spectrum Inquiry Request, then CONTINUE with Step 21 |
| 22 | AFC DUT Test Harness evaluates validity of mandatory registration information |
| 23 | AFC DUT Test Harness waits for 60 seconds before sending an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields which are significantly different from step 17. During the 60 seconds wait time, RF Test Equipment monitors the output of the AFC DUT to confirm that the AFC DUT does not transmit above maximum transmit power limits advertised by the Standard Power Access Point for Standard Client Devices in the channel. |
| 24 | If AFC DUT used Out-of-band method, initiate connection procedure between AFC DUT and SP Access Point by following instructions provided by the AFC DUT Vendor |
| 25 | Wait for 60 seconds RF Test Equipment monitors any transmission by the AFC DUT conforms to the conditions contained in the Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies |

3.3.2 Test Result

Refer as Appendix A~C



3.4 Unsuccessful Spectrum Access Update

3.4.1 Test Procedure

| Step | Description |
|------|---|
| 1 | If the AFC DUT is Standard Power Access Point, go to Step 2, else go to Step 12 |
| 2 | AFC DUT set to Initial Pre-test State. If needed (see Table 5 declaration), configure the AFC DUT with BSS parameters per Table 9 and a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the DUT with AFC System URL and server root certificate. Trigger the DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request using either In-band or Out-of-band methods. |
| 3 | AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields. |
| 4 | AFC DUT Test Harness validates mandatory registration information |
| 5 | AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields. |
| 6 | Throughout the Step 2 to 5, RF Test Equipment monitors the output of the AFC DUT to confirm that the AFC DUT does not transmit: <ul style="list-style-type: none"> In the band if the AFC DUT supports only SP operation Or <ul style="list-style-type: none"> Above LPI limits for AFC DUT whose manufacturer attests to its compliance with rules for LPI operation Wait for 60 seconds RF Test Equipment monitors any transmission by the AFC DUT conforms to the following: <ul style="list-style-type: none"> For SP only operation, AFC DUT conforms to the conditions contained in the Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies. For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, AFC DUT transmit power in the band is less than CEILING [LPI limits, SP limits contained in the Available Spectrum Inquiry Response] and does not exceed emissions limits in adjacent frequencies |
| 7 | AFC DUT is power cycled. If needed (see Table 5 declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID), new geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate. |
| 8 | Wait for 60 seconds <ul style="list-style-type: none"> If the AFC DUT does not send an Available Spectrum Inquiry Request, RF Test Equipment monitors the output of the DUT to verify the following and STOP the test: <ul style="list-style-type: none"> For SP only operation, AFC DUT does not transmit in the band, For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, the AFC DUT does not transmit above LPI limits. If the AFC DUT sends an Available Spectrum Inquiry Request, then CONTINUE with Step 8 |
| 9 | AFC DUT Test Harness evaluates validity of mandatory registration information. |
| 10 | AFC DUT Test Harness sends an Available Spectrum Inquiry Response indicating that no frequency ranges and/or channels are available. |
| 11 | Throughout Step 7 to 10 and subsequent to Step 10 Test Equipment monitors the output of the AFC DUT to confirm that: For SP only operation, AFC DUT does not transmit in the band. For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, the AFC DUT does not transmit above LPI limits. |
| 12 | If the AFC DUT is Fixed Client, go to Step 13 else Stop the test |
| 13 | The AFC DUT set to Initial Pre-test State. |
| 14 | If needed (see Table 5 declaration), configure the DUT with a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate. Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request using either In-band or Out-of- band methods. |
| 15 | AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields* |
| 16 | AFC DUT Test Harness validates the presence of mandatory registration information |
| 17 | AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of available frequency |



| | |
|----|--|
| | ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields. |
| 18 | If AFC DUT used Out-of-band method, initiate connection procedure between AFC DUT and SP Access Point by following instructions provided by the AFC DUT Vendor |
| 19 | Wait for 60 seconds RF Test Equipment monitors any transmission by the AFC DUT conforms to the conditions contained in the Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies |
| 20 | AFC DUT is power cycled. If needed (see Table 5 declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID or IC ID), new geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate |
| 21 | Wait for 60 seconds If the AFC DUT does not send an Available Spectrum Inquiry Request, RF Test Equipment monitors that the AFC DUT does not transmit above maximum transmit power limits advertised by the Standard Power Access Point for Standard Client Devices in the channel., If the AFC DUT sends an Available Spectrum Inquiry Request, then CONTINUE with Step 22 else STOP the test |
| 22 | AFC DUT Test Harness evaluates validity of mandatory registration information. |
| 23 | AFC DUT Test Harness sends an Available Spectrum Inquiry Response indicating that no frequency ranges and/or channels are available. |
| 24 | If AFC DUT used Out-of-band method, initiate connection procedure between AFC DUT and SP Access Point by following instructions provided by the AFC DUT Vendor |
| 25 | Wait for 60 seconds RF Test Equipment monitors that the AFC DUT does not transmit above maximum transmit power limits advertised by the Standard Power Access Point for Standard Client Devices in the channel. |

3.4.2 Test Result

Refer as Appendix A~C



3.5 Unsuccessful Server Validation

3.5.1 Test Procedure

| Step | Description |
|------|---|
| 1 | <p>The AFC DUT set to Initial Pre-test State.</p> <p>If needed (see Table 5 declaration), configure the AFC DUT with BSS parameters per Table 9 and a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters.</p> <p>Configure the AFC DUT Test Harness with TLS configuration that is the same as the default configuration defined in Section 2.3.1 except for the following:</p> <ul style="list-style-type: none"> Run 1: A different server certificate (and private key) with SAN domain name entry "badafc.com" (i.e. that does not match AFC system URL's domain name); signed by the same root certificate as per Section 2.3.1 Run 2: A different server certificate (and private key) where all attributes other than Public Key are the same as the server certificate per Section 2.3.1, but the certificate is signed by a different root certificate Run 3: A different server certificate (and private key) with SAN domain name entry "wfatestorg.org" only (i.e. SAN domain name only matches suffix of AFC server's hostname); signed by the same root certificate as per Section 2.3.1 Run 4: A different server certificate (and private key) where all attributes other than Public Key are the same as the server certificate per Section 2.3.1 signed by the same root certificate as per Section 2.3.1, but the server certificate is revoked as indicated in stapled OCSP response Run 5: Same configuration as per Section 2.3.1, except OCSP stapling is disabled and CRL/OCSP servers are not available Run 6: Same configuration as per Section 2.3.1, except stapled OCSP response has expired and CRL/OCSP servers are not available Run 7: Same configuration as per Section 2.3.1, except only the TLS cipher suite "eNULL" (no encryption) is enabled Run 8: N/A (same configuration as per Section 2.3.1) <p>Configure the AFC DUT with the AFC System URL and the following root certificate:</p> <ul style="list-style-type: none"> Runs 1-7: Root certificate as per Section 2.3.1 Run 8: No root certificate <p>Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request using either In-band or Out-of-band methods.</p> |
| 2 | AFC DUT Test Harness waits 10 seconds, and verifies no Available Spectrum Inquiry Request is sent to it. |
| 3 | Steps 1 and 2 are repeated for each of the remaining Runs |

3.5.2 Test Result

Refer as Appendix A



4 Test Equipment and Calibration Data

| Instrument | Brand | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date | Remark |
|-------------------|---------|-----------|---------------|-----------------|------------------|----------------------|---------------------|
| Spectrum analyzer | R&S | FSV40 | 100979 | 9kHz~40GHz | May 29, 2023 | May 28, 2024 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-06 | 1 GHz – 18 GHz | Oct. 02, 2023 | Oct. 01, 2024 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-07 | 1 GHz – 18 GHz | Oct. 02, 2023 | Oct. 01, 2024 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-08 | 1 GHz – 18 GHz | Oct. 02, 2023 | Oct. 01, 2024 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-09 | 1 GHz – 18 GHz | Oct. 02, 2023 | Oct. 01, 2024 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-10 | 1 GHz – 18 GHz | Oct. 02, 2023 | Oct. 01, 2024 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-30 | 1 GHz – 18 GHz | Oct. 02, 2023 | Oct. 01, 2024 | Conducted (TH01-CB) |
| RF Power Divider | STI | 2 Way | DV-8G -05 | 1 ~ 8GHz | Oct. 03, 2023 | Oct. 02, 2024 | Conducted (TH01-CB) |
| RF Power Divider | STI | 2 Way | DV-8G -06 | 1 ~ 8GHz | Oct. 03, 2023 | Oct. 02, 2024 | Conducted (TH01-CB) |
| RF Power Divider | STI | 2 Way | DV-8G -07 | 1 ~ 8GHz | Oct. 03, 2023 | Oct. 02, 2024 | Conducted (TH01-CB) |
| RF Power Divider | STI | 2 Way | DV-8G -08 | 1 ~ 8GHz | Oct. 03, 2023 | Oct. 02, 2024 | Conducted (TH01-CB) |
| Test Software | SPORTON | SENSE | V5.10 | - | N.C.R. | N.C.R. | Conducted (TH01-CB) |

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

NCR means Non-Calibration required.



5 Measurement Uncertainty

| Test Items | Uncertainty | Remark |
|--------------------|--------------------|--------------------------|
| Conducted Emission | 3.1 dB | Confidence levels of 95% |

AFC DUT Compliance Test Report

DUT Information

| | |
|-------------------|------------------------------|
| AFC DUT System | Standard Power AP with Proxy |
| DUT Vendor Name | Cisco |
| DUT Product Model | C9136I-B |

Test Result

| FCC Requirements | Test Case Name | Test Result |
|---|--|-------------|
| 15.407(k)(8)(v) | CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1 (Unsuccessful server validation) | PASS |
| 15.407(k)(8)(v) | CT_AFC_ServerValidation_AP_AFCDUSV35_TLSCipherSuiteENULL_10638_1 (Unsuccessful server validation) | PASS |
| 15.407(k)(8)(v) | CT_AFC_ServerValidation_AP_AFCDUSV35_StapledOCSPRespExpired_10637_1 (Unsuccessful server validation) | PASS |
| 15.407(k)(8)(v) | CT_AFC_ServerValidation_AP_AFCDUSV35_OCSPStaplingDisabled_10636_1 (Unsuccessful server validation) | PASS |
| 15.407(k)(8)(v) | CT_AFC_ServerValidation_AP_AFCDUSV35_ServerCertRevoked_10635_1 (Unsuccessful server validation) | PASS |
| 15.407(k)(8)(v) | CT_AFC_ServerValidation_AP_AFCDUSV35_MatchSuffixSAN_10634_1 (Unsuccessful server validation) | PASS |
| 15.407(k)(8)(v) | CT_AFC_ServerValidation_AP_AFCDUSV35_DifferentRootCA_10633_1 (Unsuccessful server validation) | PASS |
| 15.407(k)(8)(v) | CT_AFC_ServerValidation_AP_AFCDUSV35_NonMatchSAN_10632_1 (Unsuccessful server validation) | PASS |
| 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(9)(i) | CT_AFC_SP_AP_AFCDUAU34_Channel_10624_1 (Unsuccessful spectrum access update) | PASS |
| 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(9)(i) | CT_AFC_SP_AP_AFCDSAU33_Channel_10623_1 (Successful spectrum access update) | PASS |
| 15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii) | CT_AFC_SP_AP_AFCDUSA32_Channel_10622_1 (Unsuccessful registration and spectrum access request) | PASS |
| 15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii), 15.407(l)(ii), 15.407(k)(8)(iv) | CT_AFC_SP_AP_AFCDRSA31_Channel_160MHz_10621_1 (Successful registration and spectrum access request) | PASS |
| 15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii), 15.407(l)(ii), 15.407(k)(8)(iv) | CT_AFC_SP_AP_AFCDRSA31_Channel_80MHz_10620_1 (Successful registration and spectrum access request) | PASS |
| 15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii), 15.407(l)(ii), 15.407(k)(8)(iv) | CT_AFC_SP_AP_AFCDRSA31_Channel_40MHz_10619_1 (Successful registration and spectrum access request) | PASS |
| 15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii), 15.407(l)(ii), 15.407(k)(8)(iv) | CT_AFC_SP_AP_AFCDRSA31_Channel_20MHz_10618_1 (Successful registration and spectrum access request) | PASS |

Test Measurements

Test Case Name: CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1 (Unsuccessful server validation)
Test Result: PASS
Band: 6GHz

| Measurements Name | Description | Value | Validation Result |
|--------------------------------------|---|-------|-------------------|
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | AFC DUT sends an Available Spectrum Inquiry Request | false | PASS |

TestCaseName: CT_AFC_ServerValidation_AP_AFCDUSV35_TLSCipherSuiteENULL_10638_1 (Unsuccessful server validation)
 TestResult:PASS
 Band:6GHz

| Measurements Name | Description | Value | Validation Result |
|--------------------------------------|---|-------|-------------------|
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | AFC DUT sends an Available Spectrum Inquiry Request | false | PASS |

TestCaseName: CT_AFC_ServerValidation_AP_AFCDUSV35_StapledOCSPRespExpired_10637_1 (Unsuccessful server validation)
 TestResult:PASS
 Band:6GHz

| Measurements Name | Description | Value | Validation Result |
|--------------------------------------|---|-------|-------------------|
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | AFC DUT sends an Available Spectrum Inquiry Request | false | PASS |

TestCaseName: CT_AFC_ServerValidation_AP_AFCDUSV35_OCSPStaplingDisabled_10636_1 (Unsuccessful server validation)
 TestResult:PASS
 Band:6GHz

| Measurements Name | Description | Value | Validation Result |
|--------------------------------------|---|-------|-------------------|
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | AFC DUT sends an Available Spectrum Inquiry Request | false | PASS |

TestCaseName: CT_AFC_ServerValidation_AP_AFCDUSV35_ServerCertRevoked_10635_1 (Unsuccessful server validation)
 TestResult:PASS
 Band:6GHz

| Measurements Name | Description | Value | Validation Result |
|--------------------------------------|---|-------|-------------------|
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | AFC DUT sends an Available Spectrum Inquiry Request | false | PASS |

TestCaseName: CT_AFC_ServerValidation_AP_AFCDUSV35_MatchSuffixSAN_10634_1 (Unsuccessful server validation)
 TestResult:PASS
 Band:6GHz

| Measurements Name | Description | Value | Validation Result |
|--------------------------------------|---|-------|-------------------|
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | AFC DUT sends an Available Spectrum Inquiry Request | false | PASS |

TestCaseName: CT_AFC_ServerValidation_AP_AFCDUSV35_DifferentRootCA_10633_1 (Unsuccessful server validation)
 TestResult:PASS
 Band:6GHz

| Measurements Name | Description | Value | Validation Result |
|--------------------------------------|---|-------|-------------------|
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | AFC DUT sends an Available Spectrum Inquiry Request | false | PASS |

TestCaseName: CT_AFC_ServerValidation_AP_AFCDUSV35_NonMatchSAN_10632_1 (Unsuccessful server validation)

TestResult:PASS
Band:6GHz

| Measurements Name | Description | Value | Validation Result |
|--------------------------------------|---|-------|-------------------|
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | AFC DUT sends an Available Spectrum Inquiry Request | false | PASS |

TestCaseName: CT_AFC_SP_AP_AFCDUAU34_Channel_10624_1 (Unsuccessful spectrum access update)
TestResult:PASS
Band:6GHz

| Measurements Name | Description | Value | Validation Result |
|--|---|-------|-------------------|
| AFC_DUT_SP_OPERATION | AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response | false | PASS |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | AFC DUT sends an Available Spectrum Inquiry Request | true | PASS |
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1 | Valid mandatory registration information | true | PASS |
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1 | AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (36.0 dBm EIRP) in Spectrum Reponse] on channel 69 bandwidth 20. | true | PASS |
| AFC_DUT_SP_OPERATION_NO_REQ | AFC DUT transmit with standard power in the band in no Spectrum Inquiry Request case | false | PASS |

TestCaseName: CT_AFC_SP_AP_AFCDSAU33_Channel_10623_1 (Successful spectrum access update)
TestResult:PASS
Band:6GHz

| Measurements Name | Description | Value | Validation Result |
|--|---|-------|-------------------|
| AFC_DUT_SP_OPERATION_1 | AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response | false | PASS |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | AFC DUT sends an Available Spectrum Inquiry Request | true | PASS |
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1 | Valid mandatory registration information | true | PASS |
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1 | AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (27.14096974230991 dBm EIRP) in Spectrum Reponse] on channel 133 bandwidth 20. | true | PASS |
| AFC_DUT_SP_OPERATION_NO_REQ | AFC DUT transmit with standard power in the band in no Spectrum Inquiry Request case | false | PASS |

TestCaseName: CT_AFC_SP_AP_AFCDUSA32_Channel_10622_1 (Unsuccessful registration and spectrum access request)
TestResult:PASS
Band:6GHz

| Measurements Name | Description | Value | Validation Result |
|--------------------------------------|---|-------|-------------------|
| AFC_DUT_SP_OPERATION | AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response | false | PASS |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | AFC DUT sends an Available Spectrum | true | PASS |

| | Inquiry Request | | |
|--|--|------|------|
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID | Valid mandatory registration information | true | PASS |
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE | AFC DUT conforms to the conditons in the Spectrum Inquiry Response | true | PASS |

TestCaseName: CT_AFC_SP_AP_AFCDRSA31_Channel_160MHz_10621_1 (Successful registration and spectrum access request)
 TestResult:PASS
 Band:6GHz

| Measurements Name | Description | Value | Validation Result |
|--|---|-------|-------------------|
| AFC_DUT_SP_OPERATION | AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response | false | PASS |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1 | AFC DUT sends an Available Spectrum Inquiry Request | true | PASS |
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1 | Valid mandatory registration information | true | PASS |
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1 | AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (30.403305808210213 dBm EIRP) in Spectrum Reponse] on channel center frequency index 15 bandwidth 160. | true | PASS |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2 | AFC DUT sends an Available Spectrum Inquiry Request | true | PASS |
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2 | Valid mandatory registration information | true | PASS |
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2 | AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (30.70444763375378 dBm EIRP) in Spectrum Reponse] on channel center frequency index 79 bandwidth 160. | true | PASS |

TestCaseName: CT_AFC_SP_AP_AFCDRSA31_Channel_80MHz_10620_1 (Successful registration and spectrum access request)
 TestResult:PASS
 Band:6GHz

| Measurements Name | Description | Value | Validation Result |
|--|---|-------|-------------------|
| AFC_DUT_SP_OPERATION | AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response | false | PASS |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1 | AFC DUT sends an Available Spectrum Inquiry Request | true | PASS |
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1 | Valid mandatory registration information | true | PASS |
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1 | AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (29.89989450517011 dBm EIRP) in Spectrum Reponse] on channel center frequency index 71 bandwidth 80. | true | PASS |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2 | AFC DUT sends an Available Spectrum Inquiry Request | true | PASS |
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2 | Valid mandatory registration information | true | PASS |
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2 | AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (28.9868322869732 dBm EIRP) in Spectrum Reponse] on channel center frequency index 39 bandwidth 80. | true | PASS |

TestCaseName: CT_AFC_SP_AP_AFCDRSA31_Channel_40MHz_10619_1 (Successful registration and spectrum access request)
 TestResult:PASS
 Band:6GHz

| Measurement Name | Description | Value | Validation Result |
|--|--|-------|-------------------|
| AFC_DUT_SP_OPERATION | AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response | false | PASS |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1 | AFC DUT sends an Available Spectrum Inquiry Request | true | PASS |
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1 | Valid mandatory registration information | true | PASS |
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1 | AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (26.701279701884182 dBm EIRP) in Spectrum Reponse] on channel center frequency index 83 bandwidth 40. | true | PASS |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2 | AFC DUT sends an Available Spectrum Inquiry Request | true | PASS |
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2 | Valid mandatory registration information | true | PASS |
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2 | AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (27.72364490536072 dBm EIRP) in Spectrum Reponse] on channel center frequency index 3 bandwidth 40. | true | PASS |

TestCaseName: CT_AFC_SP_AP_AFCDRSA31_Channel_20MHz_10618_1 (Successful registration and spectrum access request)
 TestResult:PASS
 Band:6GHz

| Measurement Name | Description | Value | Validation Result |
|--|--|-------|-------------------|
| AFC_DUT_SP_OPERATION | AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response | false | PASS |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1 | AFC DUT sends an Available Spectrum Inquiry Request | true | PASS |
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1 | Valid mandatory registration information | true | PASS |
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1 | AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (31.777873600500307 dBm EIRP) in Spectrum Reponse] on channel 133 bandwidth 20. | true | PASS |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2 | AFC DUT sends an Available Spectrum Inquiry Request | true | PASS |
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2 | Valid mandatory registration information | true | PASS |
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2 | AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (34.97007816667912 dBm EIRP) in Spectrum Reponse] on channel 5 bandwidth 20. | true | PASS |

AFC capability - Inquired Channel

CT_AFC_SP_AP_AFCDRSA31_Channel_20MHz_10618_1

2023-11-08T06:34:59Z

{

"headers": {

"Host": "testserver.wfatestorg.org",

"Accept": "*/*",

"Accept-Encoding": "deflate, gzip",

"Content-Type": "application/json",

"X-Forwarded-For": "192.100.100.254",

"X-Forwarded-Host": "testserver.wfatestorg.org",

"X-Forwarded-Server": "testserver.wfatestorg.org",

"Content-Length": "1739",

"Connection": "Keep-Alive"

},

"body": {

"version": "1.4",

"availableSpectrumInquiryRequests": [

{

"requestId": "17789456457677062165",

"deviceDescriptor": {

"serialNumber": "FOC27310DPC",

"certificationId": [

{

"rulesetId": "US_47_CFR_PART_15_SUBPART_E",

"id": "LDKVEHVR2777"

}

]

},

"location": {

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"center": {

"longitude": -121.91889,

"latitude": 37.416858

},

"majorAxis": 25,

"minorAxis": 25,



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        "verticalUncertainty": 5
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      "indoorDeployment": 1
    },
    "inquiredChannels": [
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          9,
          13,
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          21,
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          29,
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          37,
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          49,
          53,
          57,
          61,
          65,
          69,
          73,
          77,
          81,
          85,
          89,
          93,
```



97,
101,
105,
109,
113,
117,
121,
125,
129,
133,
137,
141,
145,
149,
153,
157,
161,
165,
169,
173,
177,
181,
185,
189,
193,
197,
201,
205,
209,
213,
217,
221,
225,
229,
233

]
,



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{
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  "channelCfi": [
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    59,
    67,
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    99,
    107,
    115,
    123,
    131,
    139,
    147,
    155,
    163,
    171,
    179,
    187,
    195,
    203,
    211,
    219,
    227
  ]
},
{
  "globalOperatingClass": 133,
  "channelCfi": [
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        39,  
        55,  
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        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
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},  
{  
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    "channelCfi": [  
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        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
}  
],  
"vendorExtensions": [  
    {  
        "extensionId": "APIInfo",  
        "parameters": {  
            "version": "v1",  
            "PID": "C9136I-B",  
            "countryCode": "US ",  
            "VID": "03"  
        }  
    }  
]
```



```
    }
  }
]
}
],
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnabled": "False",
      "chassisInfo": [
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          "role": "active",
          "PID": "C9800-L-C-K9",
          "SN": "FCL2649004F",
          "WLC-Version": "17.14.01"
        }
      ],
      "licenseInfo": {
        "licensingType": "air-dna-advantage",
        "count": 0,
        "lastRumAckReceived": "<none>",
        "countAPsRequiringAFC": 1
      }
    }
  }
]
}
}
```

```
##### 2023-11-08T06:34:59Z #####
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,

```

```
"shortDescription": "SUCCESS"
},
"availableChannellInfo": [
  {
    "channelCfi": [
      129,
      133,
      137,
      141,
      145,
      149,
      153,
      157
    ],
    "globalOperatingClass": 131,
    "maxEirp": [
      21.531871262580406,
      31.777873600500307,
      34.72223371282488,
      26.219460370288157,
      29.16649162292135,
      30.628081292272306,
      32.41485834506736,
      30.994146893189924
    ]
  }
],
{
  "channelCfi": [
    131,
    139,
    147,
    155
  ],
  "globalOperatingClass": 132,
  "maxEirp": [
    24.54217121922022,
    29.22976032692797,
```




```
        32.17679157956116,  
        34.00444684982973  
    ]  
  },  
  {  
    "channelCfi": [  
      135,  
      151  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
      27.552471175860028,  
      35.18709153620097  
    ]  
  },  
  {  
    "channelCfi": [  
      143  
    ],  
    "globalOperatingClass": 134,  
    "maxEirp": [  
      30.562771132499844  
    ]  
  }  
],  
  "requestId": "17789456457677062165",  
  "availabilityExpireTime": "2023-11-09T06:34:59Z",  
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
}  
],  
  "version": "1.4"  
}
```

2023-11-08T06:39:50Z

```
{  
  "headers": {  
    "Host": "testserver.wfatestorg.org",
```

```
"Accept": "*/*",
"Accept-Encoding": "deflate, gzip",
"Content-Type": "application/json",
"X-Forwarded-For": "192.100.100.254",
"X-Forwarded-Host": "testserver.wfatestorg.org",
"X-Forwarded-Server": "testserver.wfatestorg.org",
"Content-Length": "1739",
"Connection": "Keep-Alive"
},
"body": {
  "version": "1.4",
  "availableSpectrumInquiryRequests": [
    {
      "requestId": "17789456457677062166",
      "deviceDescriptor": {
        "serialNumber": "FOC27310DPC",
        "certificationId": [
          {
            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
            "id": "LDKVEHVR2777"
          }
        ]
      }
    }
  ],
  "location": {
    "ellipse": {
      "center": {
        "longitude": -121.91889,
        "latitude": 37.416858
      },
      "majorAxis": 25,
      "minorAxis": 25,
      "orientation": 0.0
    },
    "elevation": {
      "height": 95,
      "heightType": "AGL",
      "verticalUncertainty": 5
    }
  }
}
```



```
    },  
    "indoorDeployment": 1  
  },  
  "inquiredChannels": [  
    {  
      "globalOperatingClass": 131,  
      "channelCfi": [  
        1,  
        5,  
        9,  
        13,  
        17,  
        21,  
        25,  
        29,  
        33,  
        37,  
        41,  
        45,  
        49,  
        53,  
        57,  
        61,  
        65,  
        69,  
        73,  
        77,  
        81,  
        85,  
        89,  
        93,  
        97,  
        101,  
        105,  
        109,  
        113,  
        117,      ]  
    }  
  ]  
}
```



```
121,  
125,  
129,  
133,  
137,  
141,  
145,  
149,  
153,  
157,  
161,  
165,  
169,  
173,  
177,  
181,  
185,  
189,  
193,  
197,  
201,  
205,  
209,  
213,  
217,  
221,  
225,  
229,  
233  
]  
,  
{  
  "globalOperatingClass": 132,  
  "channelCfi": [  
    3,  
    11,  
    19,
```



```
27,  
35,  
43,  
51,  
59,  
67,  
75,  
83,  
91,  
99,  
107,  
115,  
123,  
131,  
139,  
147,  
155,  
163,  
171,  
179,  
187,  
195,  
203,  
211,  
219,  
227  
]  
,  
{  
  "globalOperatingClass": 133,  
  "channelCfi": [  
    7,  
    23,  
    39,  
    55,  
    71,  
    87,
```

```
        103,
        119,
        135,
        151,
        167,
        183,
        199,
        215
    ]
},
{
    "globalOperatingClass": 134,
    "channelCfi": [
        15,
        47,
        79,
        111,
        143,
        175,
        207
    ]
},
"vendorExtensions": [
    {
        "extensionId": "APInfo",
        "parameters": {
            "version": "v1",
            "PID": "C9136I-B",
            "countryCode": "US ",
            "VID": "03"
        }
    }
],
"vendorExtensions": [
```



```
{
  "extensionId": "XEControllerInfo",
  "parameters": {
    "version": "v1",
    "extendedDebugEnabled": "False",
    "chassisInfo": [
      {
        "role": "active",
        "PID": "C9800-L-C-K9",
        "SN": "FCL2649004F",
        "WLC-Version": "17.14.01"
      }
    ],
    "licenseInfo": {
      "licensingType": "air-dna-advantage",
      "count": 0,
      "lastRumAckReceived": "<none>",
      "countAPsRequiringAFC": 1
    }
  }
}
```

2023-11-08T06:39:51Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            1,

```



5,
9,
13,
17,
21,
25,
29,
33,
37,
41,
45,
49,
53,
57,
61,
65,
69,
73,
77,
81,
85,
89,
93
],
"globalOperatingClass": 131,
"maxEirp": [
32.42540432636707,
34.97007816667912,
34.90218903378903,
32.971644664636116,
30.819433545404173,
33.26799213473729,
26.685154051622444,
34.21165594062071,
30.411095636702623,
32.0767456695981,
23.448391918203292,


```
29.731457124310893,  
34.93644125343204,  
23.487251674796763,  
33.40501182839106,  
21.212394470400596,  
23.429465275619528,  
27.08950476278744,  
23.680503806729472,  
26.680968755508644,  
34.26671290258785,  
22.852513460675507,  
25.8055093079722,  
21.509756715054998  
]  
,  
{  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27,  
    35,  
    43,  
    51,  
    59,  
    67,  
    75,  
    83,  
    91  
  ],  
  "globalOperatingClass": 132,  
  "maxEirp": [  
    35.435704283006885,  
    35.98194462127593,  
    33.829733502043986,  
    29.695454008262256,  
    33.42139559334244,
```

```
        26.458691874843105,  
        26.497551631436576,  
        24.22269442704041,  
        26.43976523225934,  
        26.690803763369285,  
        25.86281341731532,  
        24.52005667169481  
    ]  
},  
{  
    "channelCfi": [  
        7,  
        23,  
        39,  
        55,  
        71,  
        87  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
        36.0,  
        32.705753964902065,  
        29.46899183148291,  
        27.23299438368022,  
        29.450065188899153,  
        27.530356628334616  
    ]  
},  
{  
    "channelCfi": [  
        15,  
        47,  
        79  
    ],  
    "globalOperatingClass": 134,  
    "maxEirp": [  
        35.716053921541885,
```



```
30.243294340320034,  
30.540656584974435  
    ]  
  }  
],  
  "requestId": "17789456457677062166",  
  "availabilityExpireTime": "2023-11-09T06:39:51Z",  
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
}  
],  
"version": "1.4"  
}
```



CT_AFC_SP_AP_AFCRSA31_Channel_40MHz_10619_1

2023-11-08T06:46:59Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1739",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "17789456457677062168",
        "deviceDescriptor": {
          "serialNumber": "FOC27310DPC",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "LDKVEHVR2777"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      }
    }
  }
}
```



```
    },
    "elevation": {
      "height": 95,
      "heightType": "AGL",
      "verticalUncertainty": 5
    },
    "indoorDeployment": 1
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131,
      "channelCfi": [
        1,
        5,
        9,
        13,
        17,
        21,
        25,
        29,
        33,
        37,
        41,
        45,
        49,
        53,
        57,
        61,
        65,
        69,
        73,
        77,
        81,
        85,
        89,
        93,
        97,
```



101,
105,
109,
113,
117,
121,
125,
129,
133,
137,
141,
145,
149,
153,
157,
161,
165,
169,
173,
177,
181,
185,
189,
193,
197,
201,
205,
209,
213,
217,
221,
225,
229,
233

]

},

{

```
"globalOperatingClass": 132,  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27,  
    35,  
    43,  
    51,  
    59,  
    67,  
    75,  
    83,  
    91,  
    99,  
    107,  
    115,  
    123,  
    131,  
    139,  
    147,  
    155,  
    163,  
    171,  
    179,  
    187,  
    195,  
    203,  
    211,  
    219,  
    227  
  ]  
},  
{  
  "globalOperatingClass": 133,  
  "channelCfi": [  
    7,
```

```
        23,  
        39,  
        55,  
        71,  
        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
}  
],  
"vendorExtensions": [  
    {  
        "extensionId": "APIInfo",  
        "parameters": {  
            "version": "v1",  
            "PID": "C9136I-B",  
            "countryCode": "US ",  
            "VID": "03"  
        }  
    }  
]
```




```
    }
  ]
}
],
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnable": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-L-C-K9",
          "SN": "FCL2649004F",
          "WLC-Version": "17.14.01"
        }
      ],
      "licenseInfo": {
        "licensingType": "air-dna-advantage",
        "count": 0,
        "lastRumAckReceived": "<none>",
        "countAPsRequiringAFC": 1
      }
    }
  }
]
}
}
```

2023-11-08T06:46:59Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      }
    }
  ]
}
```

```
},
"availableChannelInfo": [
  {
    "channelCfi": [
      33,
      37,
      41,
      45,
      49,
      53,
      57,
      61,
      65,
      69,
      73,
      77,
      81,
      85,
      89,
      93
    ],
    "globalOperatingClass": 131,
    "maxEirp": [
      21.66788183940576,
      28.29501505153374,
      29.956488804158234,
      33.04410130861834,
      33.6664241355726,
      21.098266523804185,
      22.411483484514246,
      29.652875395602805,
      26.378299344605423,
      27.530933507348568,
      27.212752810510157,
      22.694211024372244,
      23.69097974524437,
      34.455491022367866,
```

```
                24.46559283661508,  
                31.055263708159828  
            ]  
        },  
        {  
            "channelCfi": [  
                35,  
                43,  
                51,  
                59,  
                67,  
                75,  
                83,  
                91  
            ],  
            "globalOperatingClass": 132,  
            "maxEirp": [  
                24.67818179604557,  
                32.966788760798046,  
                24.108566480443997,  
                25.42178344115406,  
                29.388599301245236,  
                25.704510981012056,  
                26.701279701884182,  
                27.475892793254893  
            ]  
        },  
        {  
            "channelCfi": [  
                39,  
                55,  
                71,  
                87  
            ],  
            "globalOperatingClass": 133,  
            "maxEirp": [  
                27.688481752685384,
```



```

                27.11886643708381,
                28.71481093765187,
                29.711579658523995
            ]
        },
        {
            "channelCfi": [
                47,
                79
            ],
            "globalOperatingClass": 134,
            "maxEirp": [
                30.129166393723622,
                31.72511089429168
            ]
        }
    ],
    "requestId": "17789456457677062168",
    "availabilityExpireTime": "2023-11-09T06:46:59Z",
    "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
},
"version": "1.4"
}

```

```
##### 2023-11-08T06:47:43Z #####
```

```

{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1739",
    "Connection": "Keep-Alive"
  }
}

```

```
},
"body": {
  "version": "1.4",
  "availableSpectrumInquiryRequests": [
    {
      "requestId": "17789456457677062169",
      "deviceDescriptor": {
        "serialNumber": "FOC27310DPC",
        "certificationId": [
          {
            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
            "id": "LDKVEHVR2777"
          }
        ]
      }
    }
  ],
  "location": {
    "ellipse": {
      "center": {
        "longitude": -121.91889,
        "latitude": 37.416858
      },
      "majorAxis": 25,
      "minorAxis": 25,
      "orientation": 0.0
    },
    "elevation": {
      "height": 55,
      "heightType": "AGL",
      "verticalUncertainty": 5
    },
    "indoorDeployment": 1
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131,
      "channelCfi": [
        1,

```



5,
9,
13,
17,
21,
25,
29,
33,
37,
41,
45,
49,
53,
57,
61,
65,
69,
73,
77,
81,
85,
89,
93,
97,
101,
105,
109,
113,
117,
121,
125,
129,
133,
137,
141,
145,
149,



```
153,  
157,  
161,  
165,  
169,  
173,  
177,  
181,  
185,  
189,  
193,  
197,  
201,  
205,  
209,  
213,  
217,  
221,  
225,  
229,  
233  
]  
,  
{  
  "globalOperatingClass": 132,  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27,  
    35,  
    43,  
    51,  
    59,  
    67,  
    75,  
    83,
```



```
91,  
99,  
107,  
115,  
123,  
131,  
139,  
147,  
155,  
163,  
171,  
179,  
187,  
195,  
203,  
211,  
219,  
227  
]  
,  
{  
  "globalOperatingClass": 133,  
  "channelCfi": [  
    7,  
    23,  
    39,  
    55,  
    71,  
    87,  
    103,  
    119,  
    135,  
    151,  
    167,  
    183,  
    199,  
    215
```



```
    ]
  },
  {
    "globalOperatingClass": 134,
    "channelCfi": [
      15,
      47,
      79,
      111,
      143,
      175,
      207
    ]
  }
],
"vendorExtensions": [
  {
    "extensionId": "APIInfo",
    "parameters": {
      "version": "v1",
      "PID": "C9136I-B",
      "countryCode": "US ",
      "VID": "03"
    }
  }
]
},
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnabled": "False",
      "chassisInfo": [
        {
          "role": "active",
```



```
        "PID": "C9800-L-C-K9",
        "SN": "FCL2649004F",
        "WLC-Version": "17.14.01"
    }
],
"licenseInfo": {
    "licensingType": "air-dna-advantage",
    "count": 0,
    "lastRumAckReceived": "<none>",
    "countAPsRequiringAFC": 1
}
}
}
]
}
}
```

2023-11-08T06:47:43Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            33,
            37,
            41,
            45,
            49,
            53,
            57,
            61,
            65,
```



```
69,  
73,  
77,  
81,  
85,  
89,  
93  
],  
"globalOperatingClass": 131,  
"maxEirp": [  
    21.66788183940576,  
    28.29501505153374,  
    29.956488804158234,  
    33.04410130861834,  
    33.6664241355726,  
    21.098266523804185,  
    22.411483484514246,  
    29.652875395602805,  
    26.378299344605423,  
    27.530933507348568,  
    27.212752810510157,  
    22.694211024372244,  
    23.69097974524437,  
    34.455491022367866,  
    24.46559283661508,  
    31.055263708159828  
]  
},  
{  
    "channelCfi": [  
        35,  
        43,  
        51,  
        59,  
        67,  
        75,  
        83,
```

```
91
],
"globalOperatingClass": 132,
"maxEirp": [
    24.67818179604557,
    32.966788760798046,
    24.108566480443997,
    25.42178344115406,
    29.388599301245236,
    25.704510981012056,
    26.701279701884182,
    27.475892793254893
]
},
{
    "channelCfi": [
        39,
        55,
        71,
        87
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
        27.688481752685384,
        27.11886643708381,
        28.71481093765187,
        29.711579658523995
    ]
},
{
    "channelCfi": [
        47,
        79
    ],
    "globalOperatingClass": 134,
    "maxEirp": [
        30.129166393723622,
```



```
31.72511089429168
  ]
}
],
"requestId": "17789456457677062169",
"availabilityExpireTime": "2023-11-09T06:47:43Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

```
##### 2023-11-08T06:50:39Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1738",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "17789456457677062170",
        "deviceDescriptor": {
          "serialNumber": "FOC27310DPC",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "LDKVEHV2777"
            }
          ]
        }
      }
    ]
  }
}
```

```
    ]
  },
  "location": {
    "ellipse": {
      "center": {
        "longitude": -121.91889,
        "latitude": 37.416858
      },
      "majorAxis": 25,
      "minorAxis": 25,
      "orientation": 0.0
    },
    "elevation": {
      "height": 5,
      "heightType": "AGL",
      "verticalUncertainty": 5
    },
    "indoorDeployment": 1
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131,
      "channelCfi": [
        1,
        5,
        9,
        13,
        17,
        21,
        25,
        29,
        33,
        37,
        41,
        45,
        49,
        53,
```



57,
61,
65,
69,
73,
77,
81,
85,
89,
93,
97,
101,
105,
109,
113,
117,
121,
125,
129,
133,
137,
141,
145,
149,
153,
157,
161,
165,
169,
173,
177,
181,
185,
189,
193,
197,
201,



```
205,  
209,  
213,  
217,  
221,  
225,  
229,  
233  
]  
,  
{  
  "globalOperatingClass": 132,  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27,  
    35,  
    43,  
    51,  
    59,  
    67,  
    75,  
    83,  
    91,  
    99,  
    107,  
    115,  
    123,  
    131,  
    139,  
    147,  
    155,  
    163,  
    171,  
    179,  
    187,
```



```
        195,  
        203,  
        211,  
        219,  
        227  
    ]  
},  
{  
    "globalOperatingClass": 133,  
    "channelCfi": [  
        7,  
        23,  
        39,  
        55,  
        71,  
        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
}
```

```
    }
  ],
  "vendorExtensions": [
    {
      "extensionId": "APIInfo",
      "parameters": {
        "version": "v1",
        "PID": "C9136I-B",
        "countryCode": "US ",
        "VID": "03"
      }
    }
  ]
},
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnabled": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-L-C-K9",
          "SN": "FCL2649004F",
          "WLC-Version": "17.14.01"
        }
      ],
      "licenseInfo": {
        "licensingType": "air-dna-advantage",
        "count": 0,
        "lastRumAckReceived": "<none>",
        "countAPsRequiringAFC": 1
      }
    }
  }
]
```



```
]
}
```

2023-11-08T06:50:39Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            1,
            5,
            9,
            13,
            17,
            21,
            25,
            29,
            129,
            133,
            137,
            141,
            145,
            149,
            153,
            157
          ],
          "globalOperatingClass": 131,
          "maxEirp": [
            24.71334494872091,
            29.04956909361065,
            24.79528044872718,
```

```
33.53756427118324,  
32.251592760754825,  
28.869194411646824,  
28.83146308736071,  
23.911964209973192,  
26.028074171546784,  
27.573786725145048,  
24.05074211424538,  
32.5270907090312,  
25.45716475063677,  
30.3818675617159,  
24.594542735500685,  
24.953289054055695  
]  
,  
{  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27,  
    131,  
    139,  
    147,  
    155  
  ],  
  "globalOperatingClass": 132,  
  "maxEirp": [  
    27.72364490536072,  
    27.805580405366992,  
    31.879494368286636,  
    26.922264166613004,  
    29.038374128186597,  
    27.061042070885193,  
    28.467464707276584,  
    27.604842692140497  
  ]  
}
```

```
    },
    {
      "channelCfi": [
        7,
        23,
        135,
        151
      ],
      "globalOperatingClass": 133,
      "maxEirp": [
        30.733944862000527,
        29.932564123252813,
        30.071342027525,
        30.615142648780306
      ]
    },
    {
      "channelCfi": [
        15,
        143
      ],
      "globalOperatingClass": 134,
      "maxEirp": [
        32.94286407989263,
        33.08164198416482
      ]
    }
  ],
  "requestId": "17789456457677062170",
  "availabilityExpireTime": "2023-11-09T06:50:39Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```



CT_AFC_SP_AP_AFCRSA31_Channel_80MHz_10620_1

2023-11-08T06:59:23Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1739",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "17789456457677062171",
        "deviceDescriptor": {
          "serialNumber": "FOC27310DPC",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "LDKVEHVR2777"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      }
    }
  }
}
```



```
    },
    "elevation": {
      "height": 30,
      "heightType": "AGL",
      "verticalUncertainty": 5
    },
    "indoorDeployment": 1
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131,
      "channelCfi": [
        1,
        5,
        9,
        13,
        17,
        21,
        25,
        29,
        33,
        37,
        41,
        45,
        49,
        53,
        57,
        61,
        65,
        69,
        73,
        77,
        81,
        85,
        89,
        93,
        97,
```



101,
105,
109,
113,
117,
121,
125,
129,
133,
137,
141,
145,
149,
153,
157,
161,
165,
169,
173,
177,
181,
185,
189,
193,
197,
201,
205,
209,
213,
217,
221,
225,
229,
233

]

},

{


```
"globalOperatingClass": 132,  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27,  
    35,  
    43,  
    51,  
    59,  
    67,  
    75,  
    83,  
    91,  
    99,  
    107,  
    115,  
    123,  
    131,  
    139,  
    147,  
    155,  
    163,  
    171,  
    179,  
    187,  
    195,  
    203,  
    211,  
    219,  
    227  
  ]  
},  
{  
  "globalOperatingClass": 133,  
  "channelCfi": [  
    7,
```

```
        23,  
        39,  
        55,  
        71,  
        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
}  
],  
"vendorExtensions": [  
    {  
        "extensionId": "APIInfo",  
        "parameters": {  
            "version": "v1",  
            "PID": "C9136I-B",  
            "countryCode": "US ",  
            "VID": "03"  
        }  
    }  
]
```



```
    }
  ]
}
],
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnable": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-L-C-K9",
          "SN": "FCL2649004F",
          "WLC-Version": "17.14.01"
        }
      ],
      "licenseInfo": {
        "licensingType": "air-dna-advantage",
        "count": 1,
        "lastRumAckReceived": "<none>",
        "countAPsRequiringAFC": 1
      }
    }
  }
]
}
}
```

2023-11-08T06:59:23Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      }
    }
  ]
}
```

```
},
"availableChannellInfo": [
  {
    "channelCfi": [
      1,
      5,
      9,
      13,
      17,
      21,
      25,
      29,
      65,
      69,
      73,
      77,
      81,
      85,
      89,
      93
    ],
    "globalOperatingClass": 131,
    "maxEirp": [
      23.84666445458225,
      21.26813565962042,
      26.32532510742209,
      27.111382782789583,
      29.814289276403837,
      25.35015573905993,
      23.737965830200324,
      29.04557832419971,
      29.146860757542242,
      29.03319315440281,
      30.396073550050147,
      23.87929459189049,
      34.72499399732384,
      24.912145753430483,
```

```
        33.80538841273986,  
        25.167799044966074  
    ]  
},  
{  
    "channelCfi": [  
        3,  
        11,  
        19,  
        27,  
        67,  
        75,  
        83,  
        91  
    ],  
    "globalOperatingClass": 132,  
    "maxEirp": [  
        24.278435616260232,  
        29.3356250640619,  
        28.36045569569974,  
        26.748265786840136,  
        32.04349311104262,  
        26.8895945485303,  
        27.922445710070296,  
        28.178099001605887  
    ]  
},  
{  
    "channelCfi": [  
        7,  
        23,  
        71,  
        87  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
        27.288735572900038,
```



```
                29.75856574347994,
                29.89989450517011,
                30.932745666710105
            ]
        },
        {
            "channelCfi": [
                15,
                79
            ],
            "globalOperatingClass": 134,
            "maxEirp": [
                30.299035529539857,
                32.91019446180992
            ]
        }
    ],
    "requestId": "17789456457677062171",
    "availabilityExpireTime": "2023-11-09T06:59:23Z",
    "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

2023-11-08T07:18:31Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1739",
    "Connection": "Keep-Alive"
  }
}
```

```
},
"body": {
  "version": "1.4",
  "availableSpectrumInquiryRequests": [
    {
      "requestId": "17789456457677062172",
      "deviceDescriptor": {
        "serialNumber": "FOC27310DPC",
        "certificationId": [
          {
            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
            "id": "LDKVEHVR2777"
          }
        ]
      }
    }
  ],
  "location": {
    "ellipse": {
      "center": {
        "longitude": -121.91889,
        "latitude": 37.416858
      },
      "majorAxis": 25,
      "minorAxis": 25,
      "orientation": 0.0
    },
    "elevation": {
      "height": 35,
      "heightType": "AGL",
      "verticalUncertainty": 5
    },
    "indoorDeployment": 1
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131,
      "channelCfi": [
        1,

```



5,
9,
13,
17,
21,
25,
29,
33,
37,
41,
45,
49,
53,
57,
61,
65,
69,
73,
77,
81,
85,
89,
93,
97,
101,
105,
109,
113,
117,
121,
125,
129,
133,
137,
141,
145,
149,



```
153,  
157,  
161,  
165,  
169,  
173,  
177,  
181,  
185,  
189,  
193,  
197,  
201,  
205,  
209,  
213,  
217,  
221,  
225,  
229,  
233  
]  
,  
{  
  "globalOperatingClass": 132,  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27,  
    35,  
    43,  
    51,  
    59,  
    67,  
    75,  
    83,
```



```
91,  
99,  
107,  
115,  
123,  
131,  
139,  
147,  
155,  
163,  
171,  
179,  
187,  
195,  
203,  
211,  
219,  
227  
]  
,  
{  
  "globalOperatingClass": 133,  
  "channelCfi": [  
    7,  
    23,  
    39,  
    55,  
    71,  
    87,  
    103,  
    119,  
    135,  
    151,  
    167,  
    183,  
    199,  
    215
```

```
    ]
  },
  {
    "globalOperatingClass": 134,
    "channelCfi": [
      15,
      47,
      79,
      111,
      143,
      175,
      207
    ]
  }
],
"vendorExtensions": [
  {
    "extensionId": "APIInfo",
    "parameters": {
      "version": "v1",
      "PID": "C9136I-B",
      "countryCode": "US ",
      "VID": "03"
    }
  }
]
},
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnabled": "False",
      "chassisInfo": [
        {
          "role": "active",
```



```
        "PID": "C9800-L-C-K9",
        "SN": "FCL2649004F",
        "WLC-Version": "17.14.01"
    }
],
"licenseInfo": {
    "licensingType": "air-dna-advantage",
    "count": 1,
    "lastRumAckReceived": "<none>",
    "countAPsRequiringAFC": 1
}
}
}
]
}
}
```

2023-11-08T07:18:31Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            33,
            37,
            41,
            45,
            49,
            53,
            57,
            61,
            129,
          ]
        }
      ]
    }
  ]
}
```



```
133,  
137,  
141,  
145,  
149,  
153,  
157  
],  
"globalOperatingClass": 131,  
"maxEirp": [  
    25.73535154476052,  
    23.739164348352922,  
    22.96623237369358,  
    31.45343114347483,  
    25.586592649584635,  
    28.75259787167924,  
    30.059185960351886,  
    21.885355885647186,  
    26.986128425944358,  
    23.837929237846417,  
    33.31661658441817,  
    31.745205589303946,  
    31.907702042634938,  
    34.68732345329414,  
    26.331361228719388,  
    25.164000880268105  
]  
},  
{  
    "channelCfi": [  
        35,  
        43,  
        51,  
        59,  
        131,  
        139,  
        147,
```

```
155
],
"globalOperatingClass": 132,
"maxEirp": [
    26.749464304992735,
    25.97653233033339,
    28.596892606224447,
    24.895655842287,
    26.84822919448623,
    34.75550554594376,
    34.91800199927475,
    28.174300836907918
]
},
{
    "channelCfi": [
        39,
        55,
        135,
        151
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
        28.9868322869732,
        27.90595579892681,
        29.85852915112604,
        31.184600793547723
    ]
},
{
    "channelCfi": [
        47,
        143
    ],
    "globalOperatingClass": 134,
    "maxEirp": [
        30.916255755566624,
```



32.868829107765855

]

}

],

"requestId": "17789456457677062172",

"availabilityExpireTime": "2023-11-09T07:18:31Z",

"rulesetId": "US_47_CFR_PART_15_SUBPART_E"

}

],

"version": "1.4"

}



CT_AFC_SP_AP_AFCRSA31_Channel_160MHz_10621_1

2023-11-08T09:25:09Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1739",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "17789456457680394497",
        "deviceDescriptor": {
          "serialNumber": "FOC27310DPC",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "LDKVEHVR2777"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      }
    }
  }
}
```




```
    },
    "elevation": {
      "height": 10,
      "heightType": "AGL",
      "verticalUncertainty": 5
    },
    "indoorDeployment": 1
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131,
      "channelCfi": [
        1,
        5,
        9,
        13,
        17,
        21,
        25,
        29,
        33,
        37,
        41,
        45,
        49,
        53,
        57,
        61,
        65,
        69,
        73,
        77,
        81,
        85,
        89,
        93,
        97,
```



101,
105,
109,
113,
117,
121,
125,
129,
133,
137,
141,
145,
149,
153,
157,
161,
165,
169,
173,
177,
181,
185,
189,
193,
197,
201,
205,
209,
213,
217,
221,
225,
229,
233

]

},

{

```
"globalOperatingClass": 132,  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27,  
    35,  
    43,  
    51,  
    59,  
    67,  
    75,  
    83,  
    91,  
    99,  
    107,  
    115,  
    123,  
    131,  
    139,  
    147,  
    155,  
    163,  
    171,  
    179,  
    187,  
    195,  
    203,  
    211,  
    219,  
    227  
  ]  
},  
{  
  "globalOperatingClass": 133,  
  "channelCfi": [  
    7,
```

```
        23,  
        39,  
        55,  
        71,  
        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
}  
],  
"vendorExtensions": [  
    {  
        "extensionId": "APIInfo",  
        "parameters": {  
            "version": "v1",  
            "PID": "C9136I-B",  
            "countryCode": "US ",  
            "VID": "03"  
        }  
    }  
]
```



```
    }
  ]
}
],
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnable": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-L-C-K9",
          "SN": "FCL2649004F",
          "WLC-Version": "17.14.01"
        }
      ],
      "licenseInfo": {
        "licensingType": "air-dna-advantage",
        "count": 0,
        "lastRumAckReceived": "<none>",
        "countAPsRequiringAFC": 1
      }
    }
  }
]
}
```

2023-11-08T09:25:09Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      }
    }
  ]
}
```

```
},
"availableChannellInfo": [
  {
    "channelCfi": [
      1,
      5,
      9,
      13,
      17,
      21,
      25,
      29
    ],
    "globalOperatingClass": 131,
    "maxEirp": [
      29.588049477472318,
      21.372405938290775,
      23.814328618815388,
      28.714601718343538,
      33.039934662210236,
      24.736249387211828,
      21.426274334591863,
      28.508271480445913
    ]
  },
  {
    "channelCfi": [
      3,
      11,
      19,
      27
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
      24.382705894930588,
      26.8246285754552,
      27.74654934385164,
```



```
24.436574291231675
]
},
{
  "channelCfi": [
    7,
    23
  ],
  "globalOperatingClass": 133,
  "maxEirp": [
    27.3930058515704,
    27.446874247871484
  ]
},
{
  "channelCfi": [
    15
  ],
  "globalOperatingClass": 134,
  "maxEirp": [
    30.403305808210213
  ]
}
],
"requestId": "17789456457680394497",
"availabilityExpireTime": "2023-11-09T09:25:09Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

```
##### 2023-11-08T09:26:29Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",

```

```
"Accept-Encoding": "deflate, gzip",
"Content-Type": "application/json",
"X-Forwarded-For": "192.100.100.254",
"X-Forwarded-Host": "testserver.wfatestorg.org",
"X-Forwarded-Server": "testserver.wfatestorg.org",
"Content-Length": "1739",
"Connection": "Keep-Alive"
},
"body": {
  "version": "1.4",
  "availableSpectrumInquiryRequests": [
    {
      "requestId": "17789456457680394498",
      "deviceDescriptor": {
        "serialNumber": "FOC27310DPC",
        "certificationId": [
          {
            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
            "id": "LDKVEHVR2777"
          }
        ]
      }
    }
  ],
  "location": {
    "ellipse": {
      "center": {
        "longitude": -121.91889,
        "latitude": 37.416858
      },
      "majorAxis": 25,
      "minorAxis": 25,
      "orientation": 0.0
    },
    "elevation": {
      "height": 80,
      "heightType": "AGL",
      "verticalUncertainty": 5
    }
  },
}
```




```
"indoorDeployment": 1
},
"inquiredChannels": [
  {
    "globalOperatingClass": 131,
    "channelCfi": [
      1,
      5,
      9,
      13,
      17,
      21,
      25,
      29,
      33,
      37,
      41,
      45,
      49,
      53,
      57,
      61,
      65,
      69,
      73,
      77,
      81,
      85,
      89,
      93,
      97,
      101,
      105,
      109,
      113,
      117,
      121,
```



```
125,  
129,  
133,  
137,  
141,  
145,  
149,  
153,  
157,  
161,  
165,  
169,  
173,  
177,  
181,  
185,  
189,  
193,  
197,  
201,  
205,  
209,  
213,  
217,  
221,  
225,  
229,  
233  
]  
,  
{  
  "globalOperatingClass": 132,  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27,
```



```
35,  
43,  
51,  
59,  
67,  
75,  
83,  
91,  
99,  
107,  
115,  
123,  
131,  
139,  
147,  
155,  
163,  
171,  
179,  
187,  
195,  
203,  
211,  
219,  
227  
]  
,  
{  
  "globalOperatingClass": 133,  
  "channelCfi": [  
    7,  
    23,  
    39,  
    55,  
    71,  
    87,  
    103,
```

```
        119,
        135,
        151,
        167,
        183,
        199,
        215
    ]
},
{
    "globalOperatingClass": 134,
    "channelCfi": [
        15,
        47,
        79,
        111,
        143,
        175,
        207
    ]
}
],
"vendorExtensions": [
    {
        "extensionId": "APInfo",
        "parameters": {
            "version": "v1",
            "PID": "C9136I-B",
            "countryCode": "US ",
            "VID": "03"
        }
    }
]
},
"vendorExtensions": [
    {
```



```
"extensionId": "XEControllerInfo",
"parameters": {
  "version": "v1",
  "extendedDebugEnable": "False",
  "chassisInfo": [
    {
      "role": "active",
      "PID": "C9800-L-C-K9",
      "SN": "FCL2649004F",
      "WLC-Version": "17.14.01"
    }
  ],
  "licenseInfo": {
    "licensingType": "air-dna-advantage",
    "count": 0,
    "lastRumAckReceived": "<none>",
    "countAPsRequiringAFC": 1
  }
}
]
```

2023-11-08T09:26:29Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            1,
            5,

```

```
    9,  
    13,  
    17,  
    21,  
    25,  
    29  
  ],  
  "globalOperatingClass": 131,  
  "maxEirp": [  
    29.588049477472318,  
    21.372405938290775,  
    23.814328618815388,  
    28.714601718343538,  
    33.039934662210236,  
    24.736249387211828,  
    21.426274334591863,  
    28.508271480445913  
  ]  
},  
{  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27  
  ],  
  "globalOperatingClass": 132,  
  "maxEirp": [  
    24.382705894930588,  
    26.8246285754552,  
    27.74654934385164,  
    24.436574291231675  
  ]  
},  
{  
  "channelCfi": [  
    7,
```

```
23
  ],
  "globalOperatingClass": 133,
  "maxEirp": [
    27.3930058515704,
    27.446874247871484
  ]
},
{
  "channelCfi": [
    15
  ],
  "globalOperatingClass": 134,
  "maxEirp": [
    30.403305808210213
  ]
}
],
"requestId": "17789456457680394498",
"availabilityExpireTime": "2023-11-09T09:26:29Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

```
##### 2023-11-08T09:44:17Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1739",
```

```
"Connection": "Keep-Alive"
},
"body": {
  "version": "1.4",
  "availableSpectrumInquiryRequests": [
    {
      "requestId": "17789456457680394499",
      "deviceDescriptor": {
        "serialNumber": "FOC27310DPC",
        "certificationId": [
          {
            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
            "id": "LDKVEHVR2777"
          }
        ]
      }
    }
  ],
  "location": {
    "ellipse": {
      "center": {
        "longitude": -121.91889,
        "latitude": 37.416858
      },
      "majorAxis": 25,
      "minorAxis": 25,
      "orientation": 0.0
    },
    "elevation": {
      "height": 90,
      "heightType": "AGL",
      "verticalUncertainty": 5
    },
    "indoorDeployment": 1
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131,
      "channelCfi": [
```




1,
5,
9,
13,
17,
21,
25,
29,
33,
37,
41,
45,
49,
53,
57,
61,
65,
69,
73,
77,
81,
85,
89,
93,
97,
101,
105,
109,
113,
117,
121,
125,
129,
133,
137,
141,
145,



```
149,  
153,  
157,  
161,  
165,  
169,  
173,  
177,  
181,  
185,  
189,  
193,  
197,  
201,  
205,  
209,  
213,  
217,  
221,  
225,  
229,  
233  
]  
,  
{  
  "globalOperatingClass": 132,  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27,  
    35,  
    43,  
    51,  
    59,  
    67,  
    75,
```



```
83,  
91,  
99,  
107,  
115,  
123,  
131,  
139,  
147,  
155,  
163,  
171,  
179,  
187,  
195,  
203,  
211,  
219,  
227  
]  
,  
{  
  "globalOperatingClass": 133,  
  "channelCfi": [  
    7,  
    23,  
    39,  
    55,  
    71,  
    87,  
    103,  
    119,  
    135,  
    151,  
    167,  
    183,  
    199,
```

```
                215
            ]
        },
        {
            "globalOperatingClass": 134,
            "channelCfi": [
                15,
                47,
                79,
                111,
                143,
                175,
                207
            ]
        }
    ],
    "vendorExtensions": [
        {
            "extensionId": "APInfo",
            "parameters": {
                "version": "v1",
                "PID": "C9136I-B",
                "countryCode": "US ",
                "VID": "03"
            }
        }
    ]
},
"vendorExtensions": [
    {
        "extensionId": "XEControllerInfo",
        "parameters": {
            "version": "v1",
            "extendedDebugEnable": "False",
            "chassisInfo": [
                {
```



```
        "role": "active",
        "PID": "C9800-L-C-K9",
        "SN": "FCL2649004F",
        "WLC-Version": "17.14.01"
    }
],
"licenseInfo": {
    "licensingType": "air-dna-advantage",
    "count": 0,
    "lastRumAckReceived": "<none>",
    "countAPsRequiringAFC": 1
}
}
}
]
}
}
```

2023-11-08T09:44:17Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            33,
            37,
            41,
            45,
            49,
            53,
            57,
            61,
```



```
65,  
69,  
73,  
77,  
81,  
85,  
89,  
93,  
129,  
133,  
137,  
141,  
145,  
149,  
153,  
157  
,  
"globalOperatingClass": 131,  
"maxEirp": [  
    21.977309856038346,  
    27.252446581203838,  
    34.04025334996946,  
    22.46719482477601,  
    28.1202675062657,  
    22.135345816792853,  
    25.48064870603737,  
    31.37808224155262,  
    21.673547763834343,  
    32.93448962754196,  
    29.45514980450857,  
    30.294472597183198,  
    28.111016501919543,  
    27.334329221426646,  
    29.316138061946802,  
    26.871608655909363,  
    26.686299196786766,  
    28.87619061845729,
```

```
21.430416462680412,
25.09937231508336,
33.87825937130478,
25.702905222724077,
25.23010314590156,
23.483711466952858
]
},
{
  "channelCfi": [
    35,
    43,
    51,
    59,
    67,
    75,
    83,
    91,
    131,
    139,
    147,
    155
  ],
  "globalOperatingClass": 132,
  "maxEirp": [
    24.98760981267816,
    25.47749478141582,
    25.145645773432665,
    28.490948662677184,
    24.683847720474155,
    32.46544976114838,
    30.34462917806646,
    29.881908612549175,
    29.69659915342658,
    24.440716419320225,
    28.71320517936389,
    26.49401142359267
```

```
    ]
  },
  {
    "channelCfi": [
      39,
      55,
      71,
      87,
      135,
      151
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
      27.997909769317967,
      28.155945730072474,
      27.694147677113964,
      32.89220856918898,
      27.451016375960037,
      29.50431138023248
    ]
  }
  {
    "channelCfi": [
      47,
      79,
      143
    ],
    "globalOperatingClass": 134,
    "maxEirp": [
      31.008209725957784,
      30.70444763375378,
      30.46131633259985
    ]
  }
],
"requestId": "17789456457680394499",
"availabilityExpireTime": "2023-11-09T09:44:17Z",
```




```
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
  }  
],  
  "version": "1.4"  
}
```



CT_AFC_SP_AP_AFCDUSA32_Channel_10622_1

2023-11-08T08:00:39Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1739",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "17789456457677062176",
        "deviceDescriptor": {
          "serialNumber": "FOC27310DPC",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "LDKVEHVR2777"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      }
    }
  }
}
```



```
    },
    "elevation": {
      "height": 60,
      "heightType": "AGL",
      "verticalUncertainty": 5
    },
    "indoorDeployment": 1
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131,
      "channelCfi": [
        1,
        5,
        9,
        13,
        17,
        21,
        25,
        29,
        33,
        37,
        41,
        45,
        49,
        53,
        57,
        61,
        65,
        69,
        73,
        77,
        81,
        85,
        89,
        93,
        97,
```



101,
105,
109,
113,
117,
121,
125,
129,
133,
137,
141,
145,
149,
153,
157,
161,
165,
169,
173,
177,
181,
185,
189,
193,
197,
201,
205,
209,
213,
217,
221,
225,
229,
233

]

},

{

```
"globalOperatingClass": 132,  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27,  
    35,  
    43,  
    51,  
    59,  
    67,  
    75,  
    83,  
    91,  
    99,  
    107,  
    115,  
    123,  
    131,  
    139,  
    147,  
    155,  
    163,  
    171,  
    179,  
    187,  
    195,  
    203,  
    211,  
    219,  
    227  
  ]  
},  
{  
  "globalOperatingClass": 133,  
  "channelCfi": [  
    7,
```

```
        23,  
        39,  
        55,  
        71,  
        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
}  
],  
"vendorExtensions": [  
    {  
        "extensionId": "APIInfo",  
        "parameters": {  
            "version": "v1",  
            "PID": "C9136I-B",  
            "countryCode": "US ",  
            "VID": "03"  
        }  
    }  
]
```



```
    }
  ]
}
],
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnable": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-L-C-K9",
          "SN": "FCL2649004F",
          "WLC-Version": "17.14.01"
        }
      ],
      "licenseInfo": {
        "licensingType": "air-dna-advantage",
        "count": 1,
        "lastRumAckReceived": "<none>",
        "countAPsRequiringAFC": 1
      }
    }
  }
]
}
}
```

2023-11-08T08:00:39Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      }
    }
  ]
}
```



```
    },  
    "availableChannellInfo": [],  
    "requestId": "17789456457677062176",  
    "availabilityExpireTime": "2023-11-09T08:00:39Z",  
    "rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
  }  
],  
"version": "1.4"  
}
```




CT_AFC_SP_AP_AFCDSAU33_Channel_10623_1

2023-11-08T08:05:27Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1739",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "17789456457677062177",
        "deviceDescriptor": {
          "serialNumber": "FOC27310DPC",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "LDKVEHVR2777"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      }
    }
  }
}
```



```
    },
    "elevation": {
      "height": 80,
      "heightType": "AGL",
      "verticalUncertainty": 5
    },
    "indoorDeployment": 1
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131,
      "channelCfi": [
        1,
        5,
        9,
        13,
        17,
        21,
        25,
        29,
        33,
        37,
        41,
        45,
        49,
        53,
        57,
        61,
        65,
        69,
        73,
        77,
        81,
        85,
        89,
        93,
        97,
```



101,
105,
109,
113,
117,
121,
125,
129,
133,
137,
141,
145,
149,
153,
157,
161,
165,
169,
173,
177,
181,
185,
189,
193,
197,
201,
205,
209,
213,
217,
221,
225,
229,
233

]

},

{



```
"globalOperatingClass": 132,  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27,  
    35,  
    43,  
    51,  
    59,  
    67,  
    75,  
    83,  
    91,  
    99,  
    107,  
    115,  
    123,  
    131,  
    139,  
    147,  
    155,  
    163,  
    171,  
    179,  
    187,  
    195,  
    203,  
    211,  
    219,  
    227  
  ]  
},  
{  
  "globalOperatingClass": 133,  
  "channelCfi": [  
    7,
```

```
        23,  
        39,  
        55,  
        71,  
        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
}  
],  
"vendorExtensions": [  
    {  
        "extensionId": "APIInfo",  
        "parameters": {  
            "version": "v1",  
            "PID": "C9136I-B",  
            "countryCode": "US ",  
            "VID": "03"  
        }  
    }  
]
```



```
    }
  ]
}
],
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnable": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-L-C-K9",
          "SN": "FCL2649004F",
          "WLC-Version": "17.14.01"
        }
      ],
      "licenseInfo": {
        "licensingType": "air-dna-advantage",
        "count": 1,
        "lastRumAckReceived": "<none>",
        "countAPsRequiringAFC": 1
      }
    }
  }
]
}
}
```

2023-11-08T08:05:27Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      }
    }
  ]
}
```

```
},
"availableChannellInfo": [
  {
    "channelCfi": [
      129,
      133,
      137,
      141,
      145,
      149,
      153,
      157
    ],
    "globalOperatingClass": 131,
    "maxEirp": [
      29.546369133967588,
      27.14096974230991,
      33.92168969364073,
      34.548300054345376,
      31.8576306218362,
      22.26833213679936,
      25.2840453562558,
      26.21176445517232
    ]
  }
],
{
  "channelCfi": [
    131,
    139,
    147,
    155
  ],
  "globalOperatingClass": 132,
  "maxEirp": [
    30.151269698949722,
    36.0,
    25.27863209343917,
```

```
28.29434531289561
  ]
},
{
  "channelCfi": [
    135,
    151
  ],
  "globalOperatingClass": 133,
  "maxEirp": [
    33.16156965558953,
    28.288932050078984
  ]
},
{
  "channelCfi": [
    143
  ],
  "globalOperatingClass": 134,
  "maxEirp": [
    31.299232006718796
  ]
}
],
"requestId": "17789456457677062177",
"availabilityExpireTime": "2023-11-09T08:05:27Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```




CT_AFC_SP_AP_AFCDUUAU34_Channel_10624_1

2023-11-08T08:30:15Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1739",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "17789456457677062178",
        "deviceDescriptor": {
          "serialNumber": "FOC27310DPC",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "LDKVEHVR2777"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      }
    }
  }
}
```



```
    },
    "elevation": {
      "height": 10,
      "heightType": "AGL",
      "verticalUncertainty": 5
    },
    "indoorDeployment": 1
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131,
      "channelCfi": [
        1,
        5,
        9,
        13,
        17,
        21,
        25,
        29,
        33,
        37,
        41,
        45,
        49,
        53,
        57,
        61,
        65,
        69,
        73,
        77,
        81,
        85,
        89,
        93,
        97,
```



101,
105,
109,
113,
117,
121,
125,
129,
133,
137,
141,
145,
149,
153,
157,
161,
165,
169,
173,
177,
181,
185,
189,
193,
197,
201,
205,
209,
213,
217,
221,
225,
229,
233

]

},

{



```
"globalOperatingClass": 132,  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27,  
    35,  
    43,  
    51,  
    59,  
    67,  
    75,  
    83,  
    91,  
    99,  
    107,  
    115,  
    123,  
    131,  
    139,  
    147,  
    155,  
    163,  
    171,  
    179,  
    187,  
    195,  
    203,  
    211,  
    219,  
    227  
  ]  
},  
{  
  "globalOperatingClass": 133,  
  "channelCfi": [  
    7,
```

```
        23,  
        39,  
        55,  
        71,  
        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
}  
],  
"vendorExtensions": [  
    {  
        "extensionId": "APIInfo",  
        "parameters": {  
            "version": "v1",  
            "PID": "C9136I-B",  
            "countryCode": "US ",  
            "VID": "03"  
        }  
    }  
]
```



```
    }
  ]
}
],
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnable": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-L-C-K9",
          "SN": "FCL2649004F",
          "WLC-Version": "17.14.01"
        }
      ],
      "licenseInfo": {
        "licensingType": "air-dna-advantage",
        "count": 1,
        "lastRumAckReceived": "<none>",
        "countAPsRequiringAFC": 1
      }
    }
  }
]
}
}
```

2023-11-08T08:30:15Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      }
    }
  ]
}
```



```
},  
"availableChannellInfo": [  
  {  
    "channelCfi": [  
      1,  
      5,  
      9,  
      13,  
      17,  
      21,  
      25,  
      29,  
      33,  
      37,  
      41,  
      45,  
      49,  
      53,  
      57,  
      61,  
      65,  
      69,  
      73,  
      77,  
      81,  
      85,  
      89,  
      93,  
      117,  
      121,  
      125,  
      129,  
      133,  
      137,  
      141,  
      145,  
      149,
```




```
36.0,  
36.0,  
36.0,  
36.0,  
36.0,  
36.0,  
36.0,  
36.0,  
36.0,  
36.0,  
36.0,  
36.0,  
36.0,  
36.0,  
36.0,  
36.0  
]  
,  
{  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27,  
    35,  
    43,  
    51,  
    59,  
    67,  
    75,  
    83,  
    91,  
    123,  
    131,  
    139,  
    147,  
    155,  
    163,
```



```
        167
      ],
      "globalOperatingClass": 133,
      "maxEirp": [
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0
      ]
    },
    {
      "channelCfi": [
        15,
        47,
        79,
        143
      ],
      "globalOperatingClass": 134,
      "maxEirp": [
        36.0,
        36.0,
        36.0,
        36.0
      ]
    }
  ],
  "requestId": "17789456457677062178",
  "availabilityExpireTime": "2023-11-09T08:30:15Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

AFC capability - Inquired Channel
AFCD.RSA: Successful registration and spectrum access request

| Freq. (MHz) | Mode (LPI or SP) | Bandwidth (MHz) | Antenna Gain (dBi) | Power (dBm) | EIRP (dBm) | AFC Response Limit (dBm) | Result | PSD (dBm/MHz) | EIRP PSD (dBm/MHz) | AFC Response Limit (dBm/MHz) | Result |
|-------------|------------------|-----------------|--------------------|-------------|------------|--------------------------|--------|---------------|--------------------|------------------------------|--------|
| 6055 | LPI | 20 | 6.00 | 8.82 | 14.82 | - | N/A | -2.51 | 3.49 | 5 | Pass |
| 6615 | SP | 20 | 6.00 | 15.37 | 21.37 | 31.77 | Pass | 2.09 | 8.09 | - | N/A |
| 5975 | SP | 20 | 6.00 | 13.07 | 19.07 | 34.97 | Pass | 0.13 | 6.13 | - | N/A |
| 5965 | LPI | 40 | 6.00 | 12.61 | 18.61 | - | N/A | -3.61 | 2.39 | 5 | Pass |
| 6365 | SP | 40 | 6.00 | 14.07 | 20.07 | 26.70 | Pass | -0.50 | 5.50 | - | N/A |
| 5965 | SP | 40 | 6.00 | 15.89 | 21.89 | 27.72 | Pass | -0.29 | 5.71 | - | N/A |
| 5985 | LPI | 80 | 6.00 | 14.87 | 20.87 | - | N/A | -4.27 | 1.73 | 5 | Pass |
| 6305 | SP | 80 | 6.00 | 16.03 | 22.03 | 29.89 | Pass | -2.97 | 3.03 | - | N/A |
| 6145 | SP | 80 | 6.00 | 15.77 | 21.77 | 28.98 | Pass | -3.36 | 2.64 | - | N/A |
| 6345 | LPI | 160 | 6.00 | 16.35 | 22.35 | - | N/A | -5.90 | 0.10 | 5 | Pass |
| 6025 | SP | 160 | 6.00 | 16.54 | 22.54 | 30.40 | Pass | -4.90 | 1.10 | - | N/A |
| 6345 | SP | 160 | 6.00 | 16.50 | 22.50 | 30.70 | Pass | -5.50 | 0.50 | - | N/A |

AFCD.USA: Unsuccessful spectrum access request

| Freq. (MHz) | Mode (LPI or SP) | Bandwidth (MHz) | Antenna Gain (dBi) | Power (dBm) | EIRP (dBm) | AFC Response Limit (dBm) | Result | PSD (dBm/MHz) | EIRP PSD (dBm/MHz) | AFC Response Limit (dBm/MHz) | Result |
|-------------|------------------|-----------------|--------------------|-------------|------------|--------------------------|--------|---------------|--------------------|------------------------------|--------|
| 6295 | LPI | 20 | 6.00 | 10.90 | 16.90 | - | N/A | -2.39 | 3.61 | 5 | Pass |
| 6295 | LPI | 20 | 6.00 | 11.00 | 17.00 | - | N/A | -2.38 | 3.62 | 5 | Pass |

AFCD.SAU: Successful spectrum access update

| Freq. (MHz) | Mode (LPI or SP) | Bandwidth (MHz) | Antenna Gain (dBi) | Power (dBm) | EIRP (dBm) | AFC Response Limit (dBm) | Result | PSD (dBm/MHz) | EIRP PSD (dBm/MHz) | AFC Response Limit (dBm/MHz) | Result |
|-------------|------------------|-----------------|--------------------|-------------|------------|--------------------------|--------|---------------|--------------------|------------------------------|--------|
| 6295 | LPI | 20 | 6.00 | 10.96 | 16.96 | - | N/A | -2.46 | 3.54 | 5 | Pass |
| 6615 | SP | 20 | 6.00 | 15.46 | 21.46 | 27.14 | Pass | 2.04 | 8.04 | - | N/A |
| 6615 | LPI | 20 | 6.00 | 10.59 | 16.59 | - | N/A | -2.53 | 3.47 | 5 | Pass |

AFCD.UAU: Unsuccessful spectrum access update

| Freq. (MHz) | Mode (LPI or SP) | Bandwidth (MHz) | Antenna Gain (dBi) | Power (dBm) | EIRP (dBm) | AFC Response Limit (dBm) | Result | PSD (dBm/MHz) | EIRP PSD (dBm/MHz) | AFC Response Limit (dBm/MHz) | Result |
|-------------|------------------|-----------------|--------------------|-------------|------------|--------------------------|--------|---------------|--------------------|------------------------------|--------|
| 6615 | LPI | 20 | 6.00 | 10.55 | 16.55 | - | N/A | -2.69 | 3.31 | 5 | Pass |
| 6295 | SP | 20 | 6.00 | 13.30 | 19.30 | 36.00 | Pass | 0.38 | 6.38 | - | N/A |
| 6295 | LPI | 20 | 6.00 | 10.98 | 16.98 | - | N/A | -2.36 | 3.64 | 5 | Pass |

AFC capability - Inquired Channel

CT_AFC_SP_AP_AFCDRSA31_Channel_20MHz_10618_1

Frequency (MHz): 6055

5.925-6.425GHz_802.11ax HEW20_1TX

AV Power

6055MHz_TX

08/11/2023

CF (Hz)
6.055G

Span (Hz)
30M

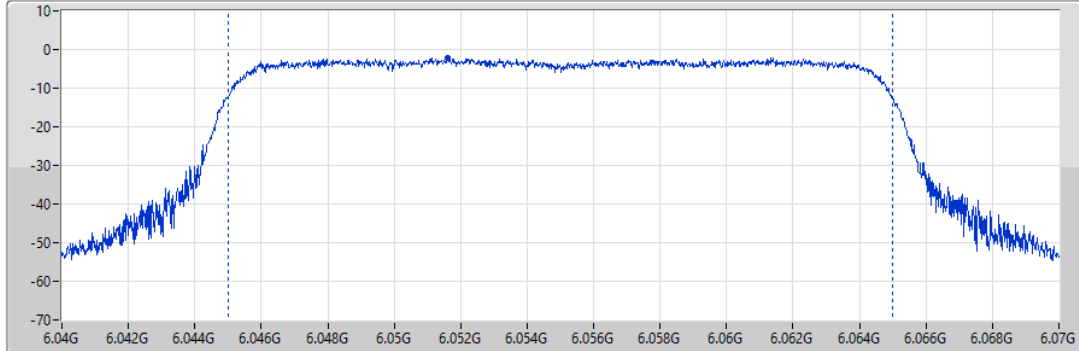
RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
1.067m

Detector Type
RMS

CP BW (Hz)
20M



Port 1

Sum= Total Power
PX=Port X

| Sum(dBm) | P1(dBm) |
|----------|---------|
| 8.82 | 8.82 |

5.925-6.425GHz_802.11ax HEW20_1TX

PSD

6055MHz

08/11/2023

CF (Hz)
6.055G

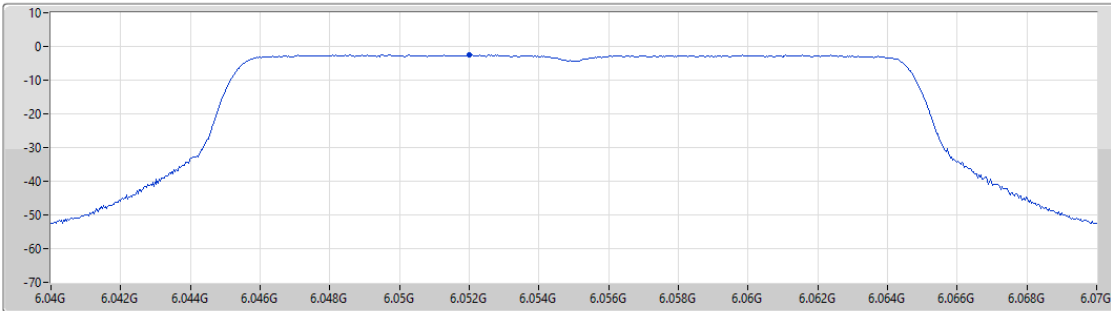
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
20m

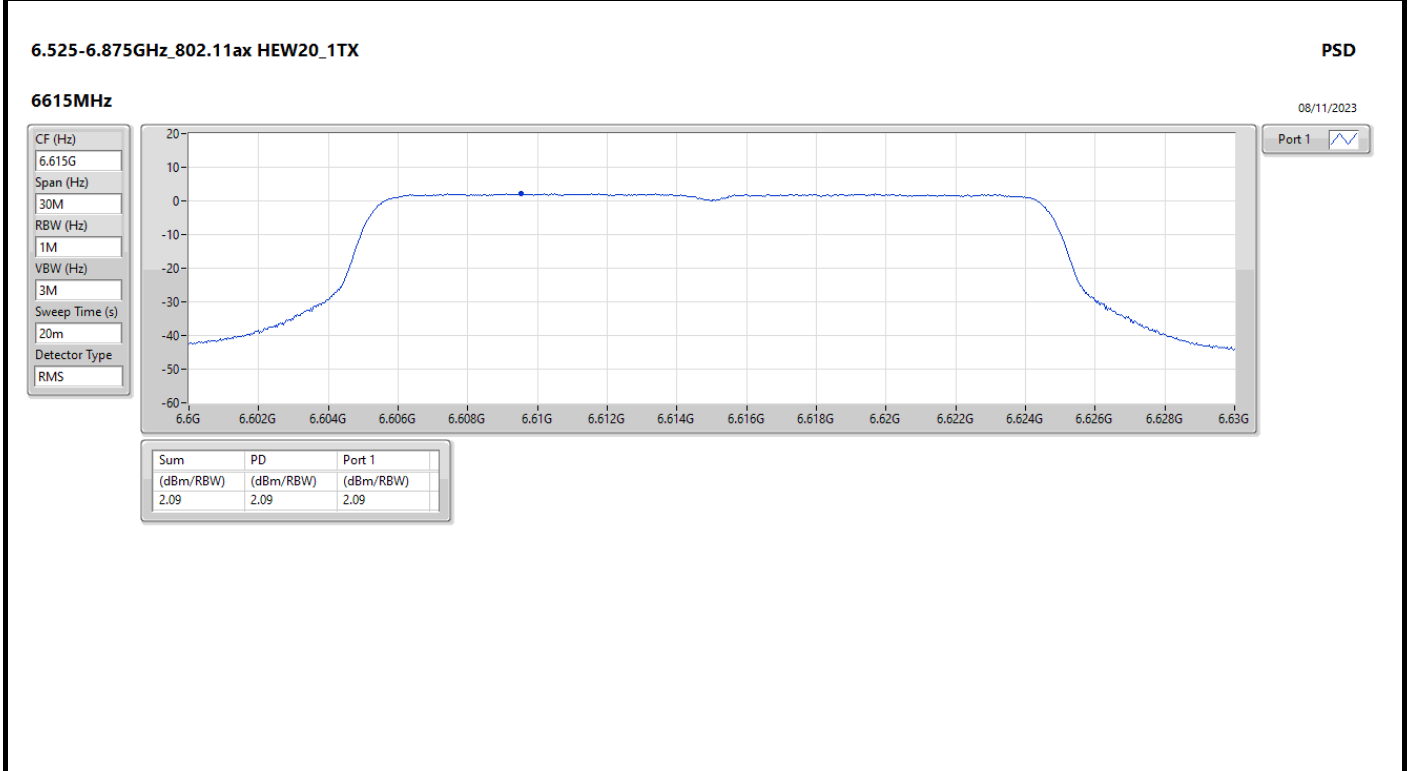
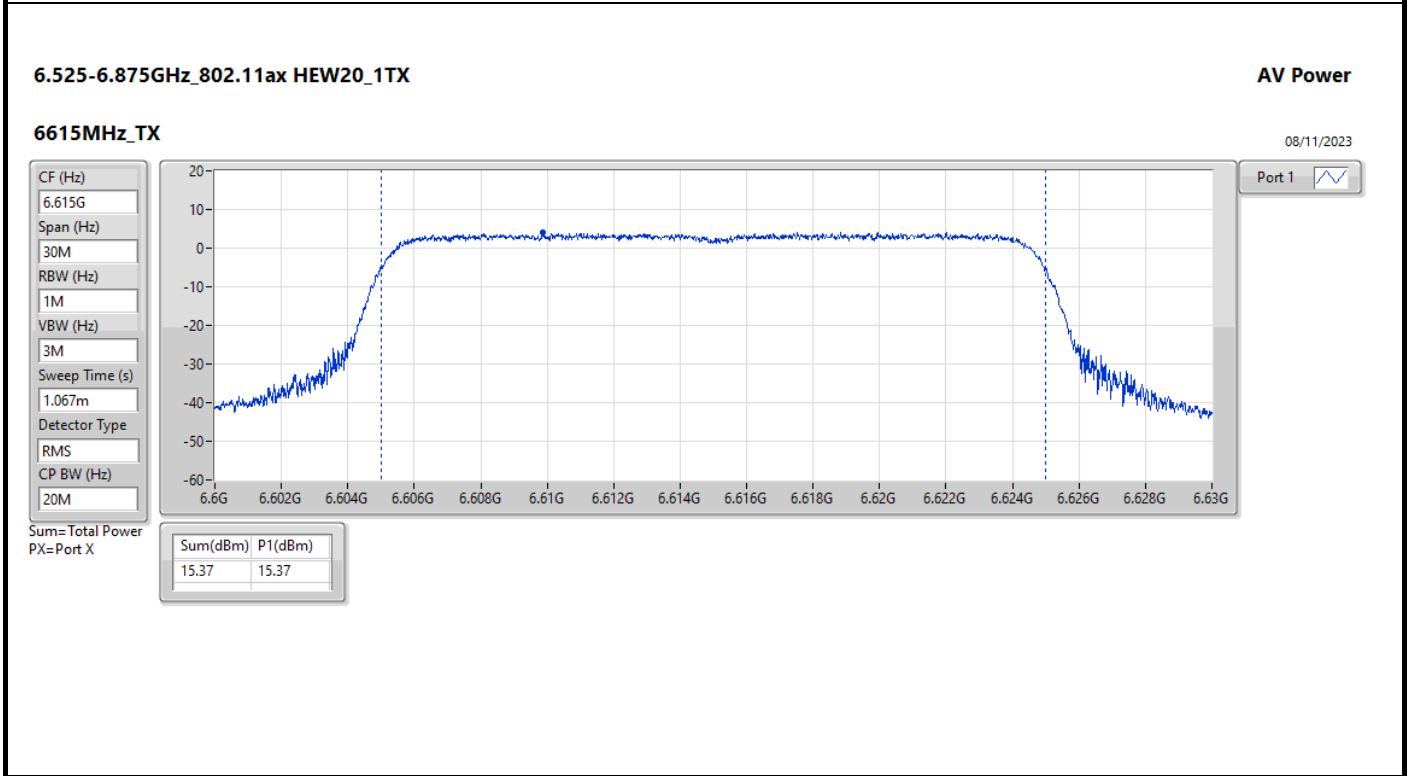
Detector Type
RMS



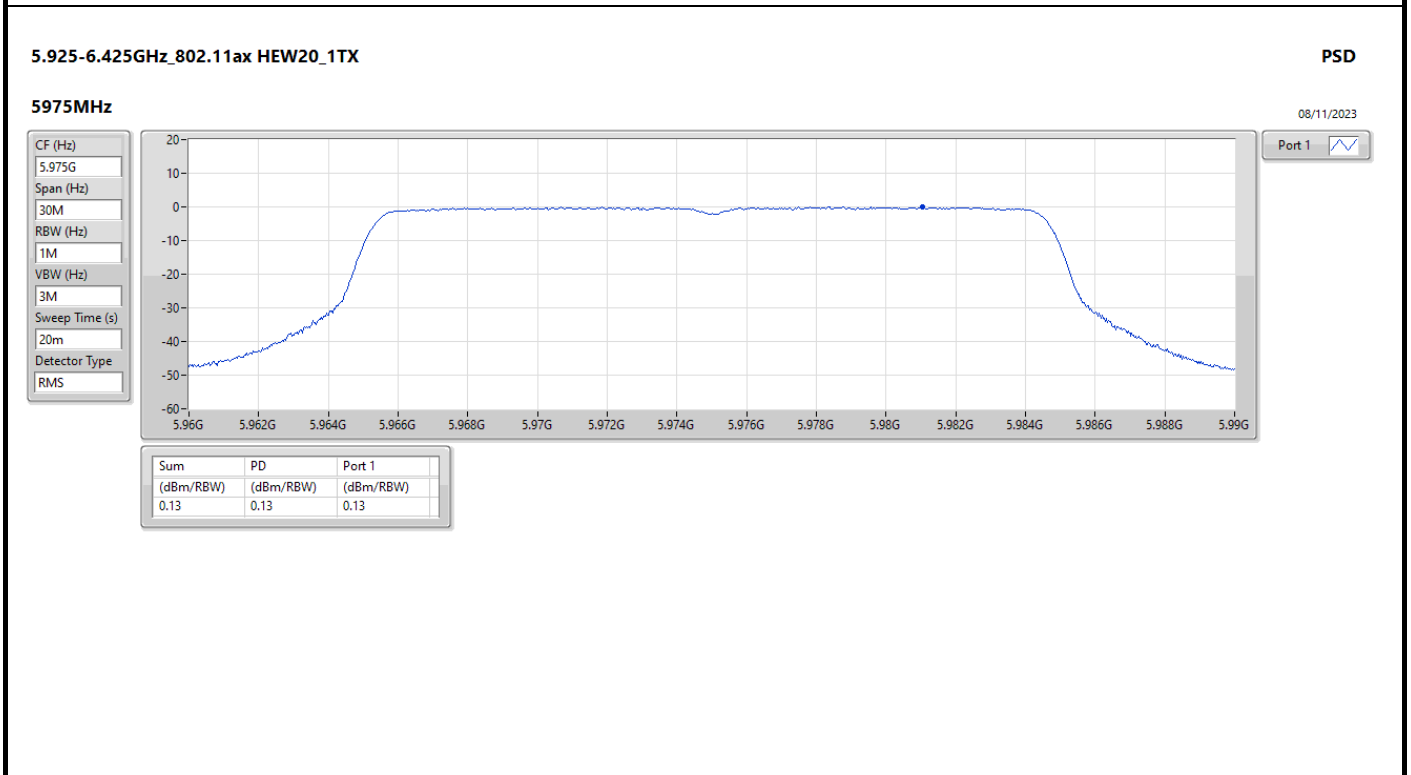
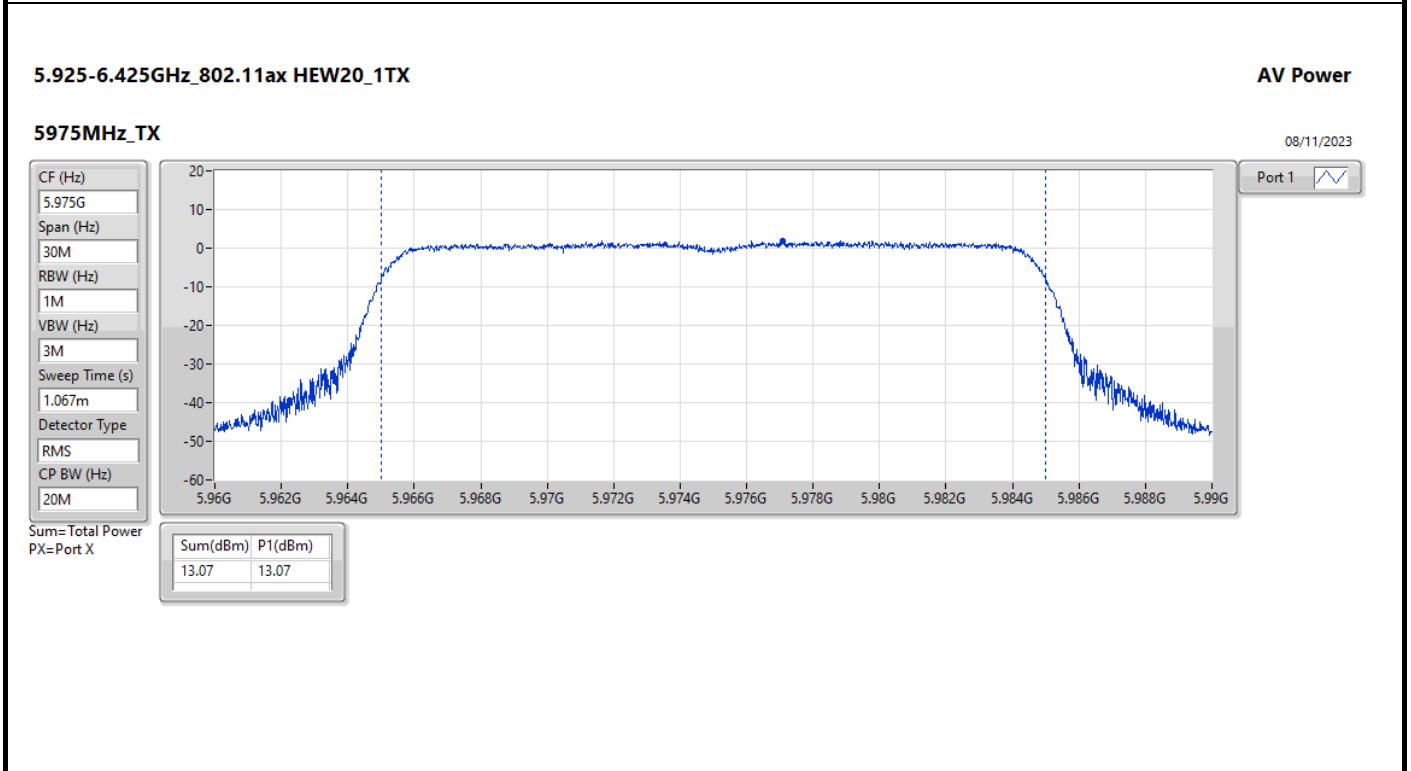
Port 1

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

Frequency (MHz): 6615



Frequency (MHz): 5975



CT_AFC_SP_AP_AFCRSA31_Channel_40MHz_10619_1

Frequency (MHz): 5965

5.925-6.425GHz_802.11ax HEW40_1TX

AV Power

5965MHz_TX

08/11/2023

CF (Hz)
5.965G

Span (Hz)
60M

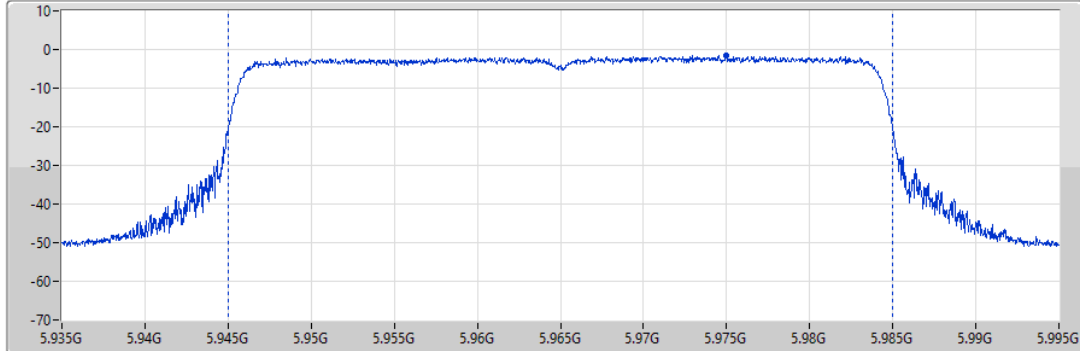
RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
1.067m

Detector Type
RMS

CP BW (Hz)
40M



Port 1

Sum= Total Power
PX=Port X

| Sum(dBm) | P1(dBm) |
|----------|---------|
| 12.61 | 12.61 |

5.925-6.425GHz_802.11ax HEW40_1TX

PSD

5965MHz

08/11/2023

CF (Hz)
5.965G

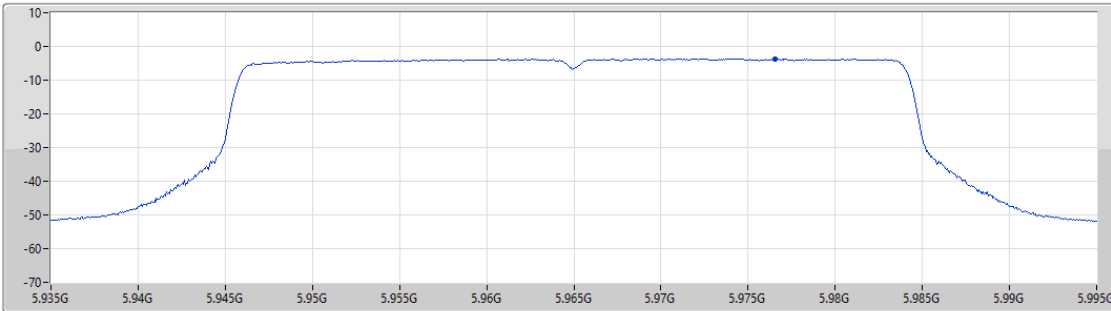
Span (Hz)
60M

RBW (Hz)
1M

VBW (Hz)
3M

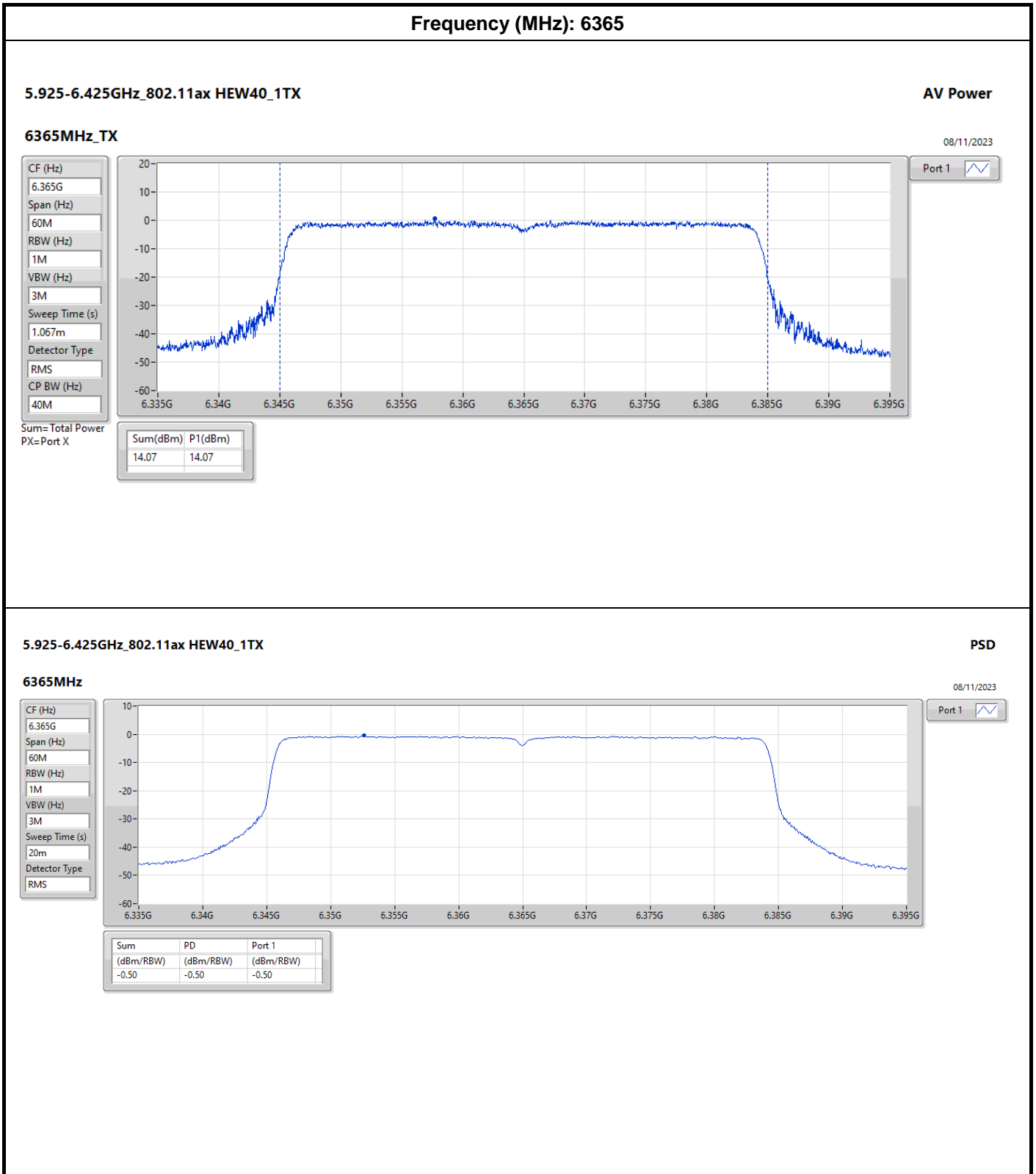
Sweep Time (s)
20m

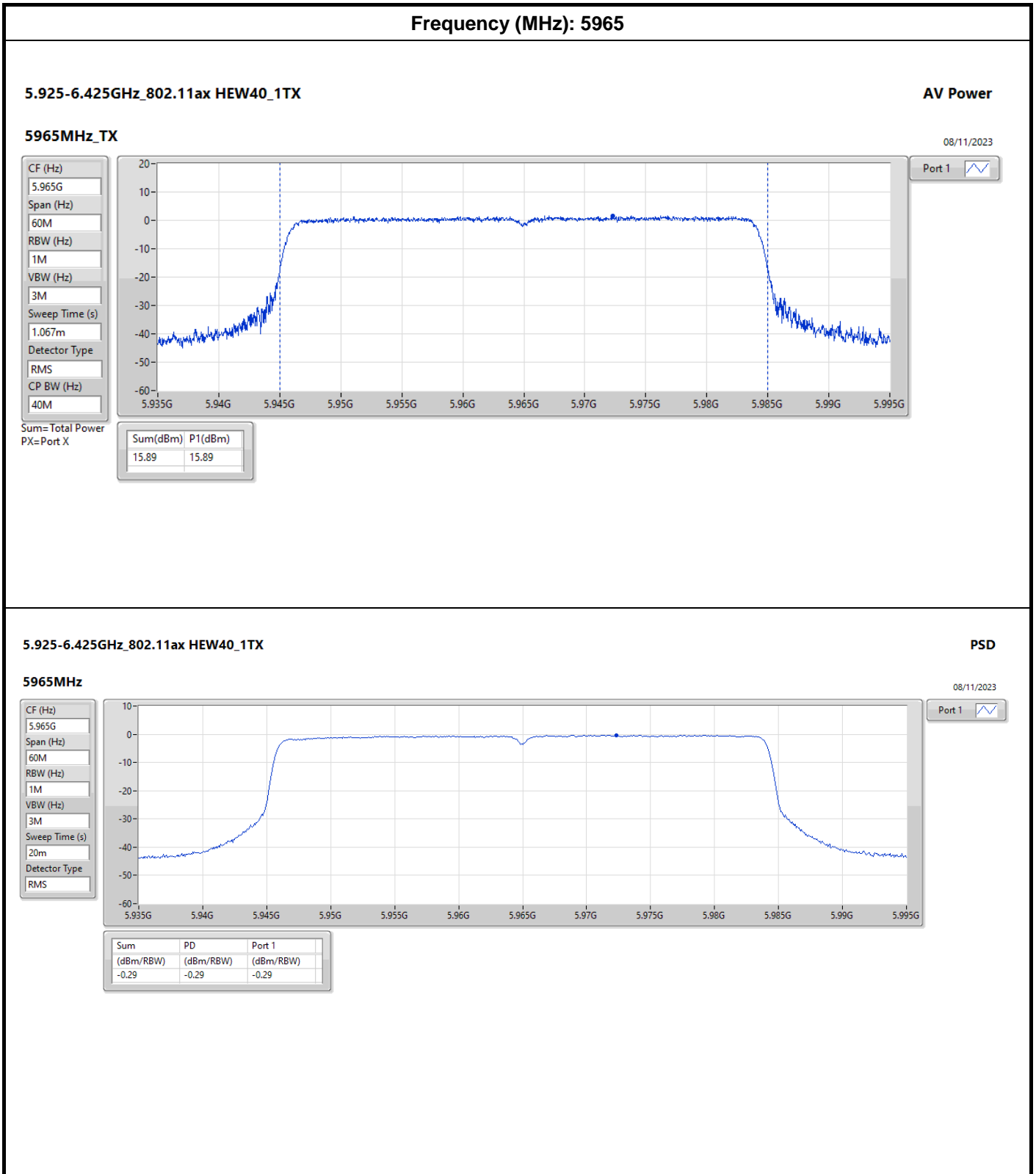
Detector Type
RMS



Port 1

| Sum | PD | Port 1 |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -3.61 | -3.61 | -3.61 |





CT_AFC_SP_AP_AFCRSA31_Channel_80MHz_10620_1

Frequency (MHz): 5985

5.925-6.425GHz_802.11ax HEW80_1TX

AV Power

5985MHz_TX

08/11/2023

CF (Hz)
5.985G

Span (Hz)
120M

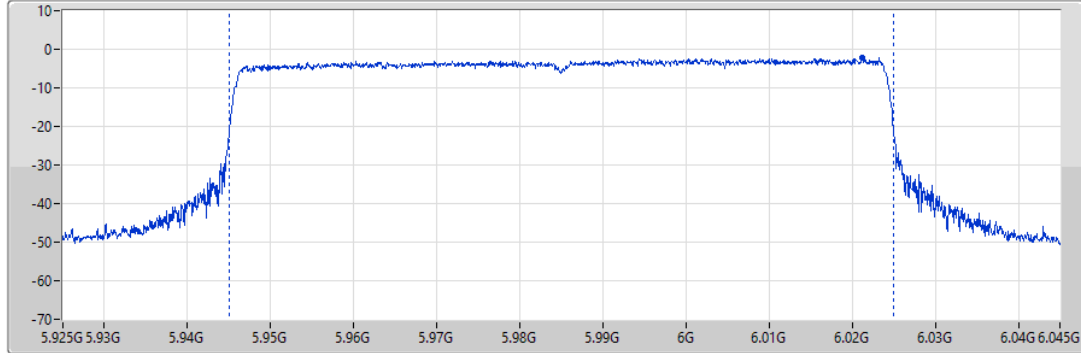
RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
1.067m

Detector Type
RMS

CP BW (Hz)
80M



Port 1

Sum=Total Power
PX=Port X

| Sum(dBm) | P1(dBm) |
|----------|---------|
| 14.87 | 14.87 |

5.925-6.425GHz_802.11ax HEW80_1TX

PSD

5985MHz

08/11/2023

CF (Hz)
5.985G

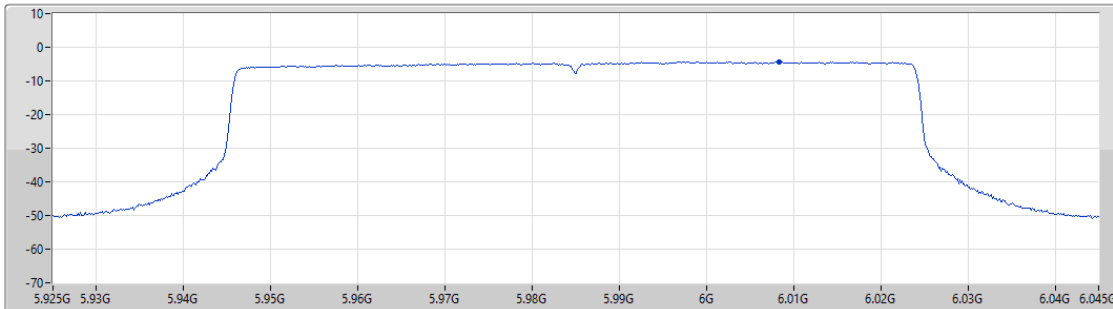
Span (Hz)
120M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
20m

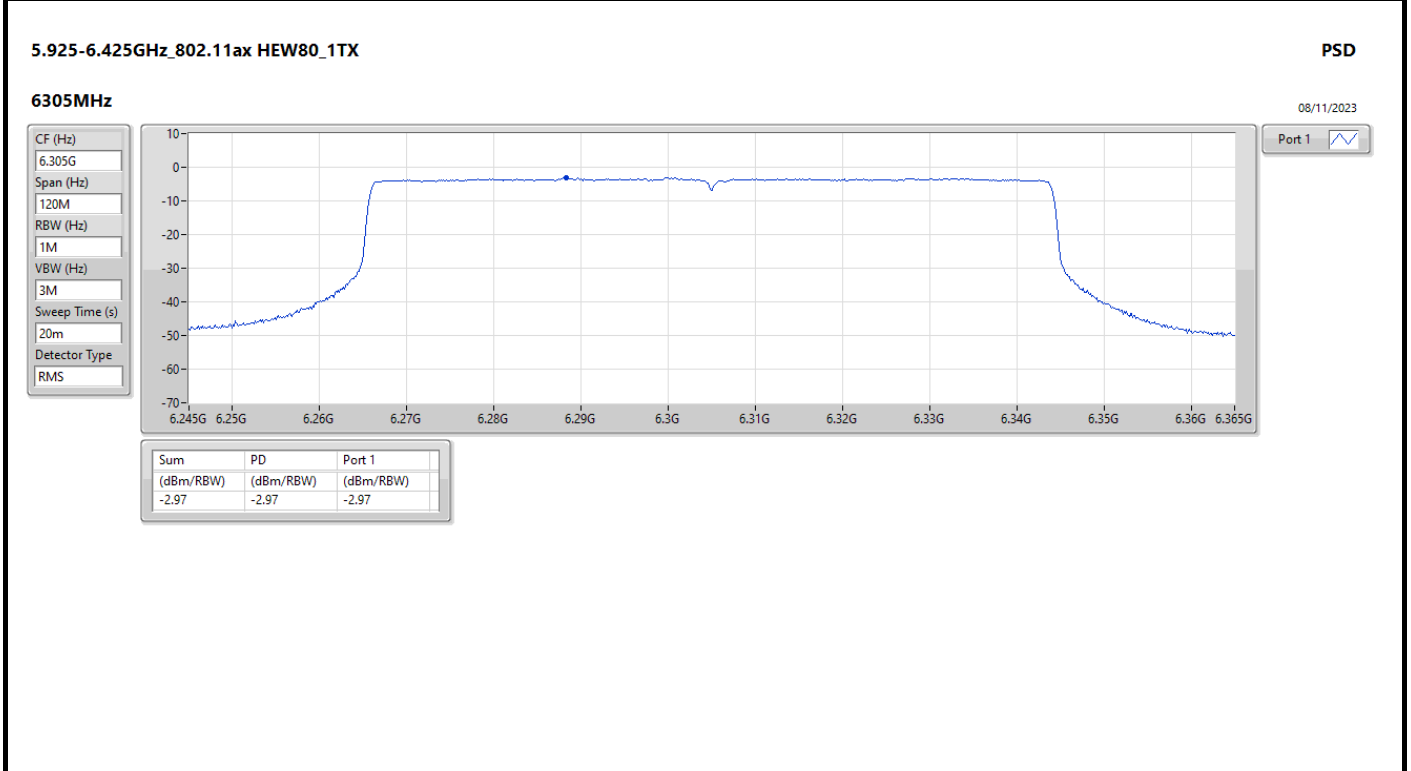
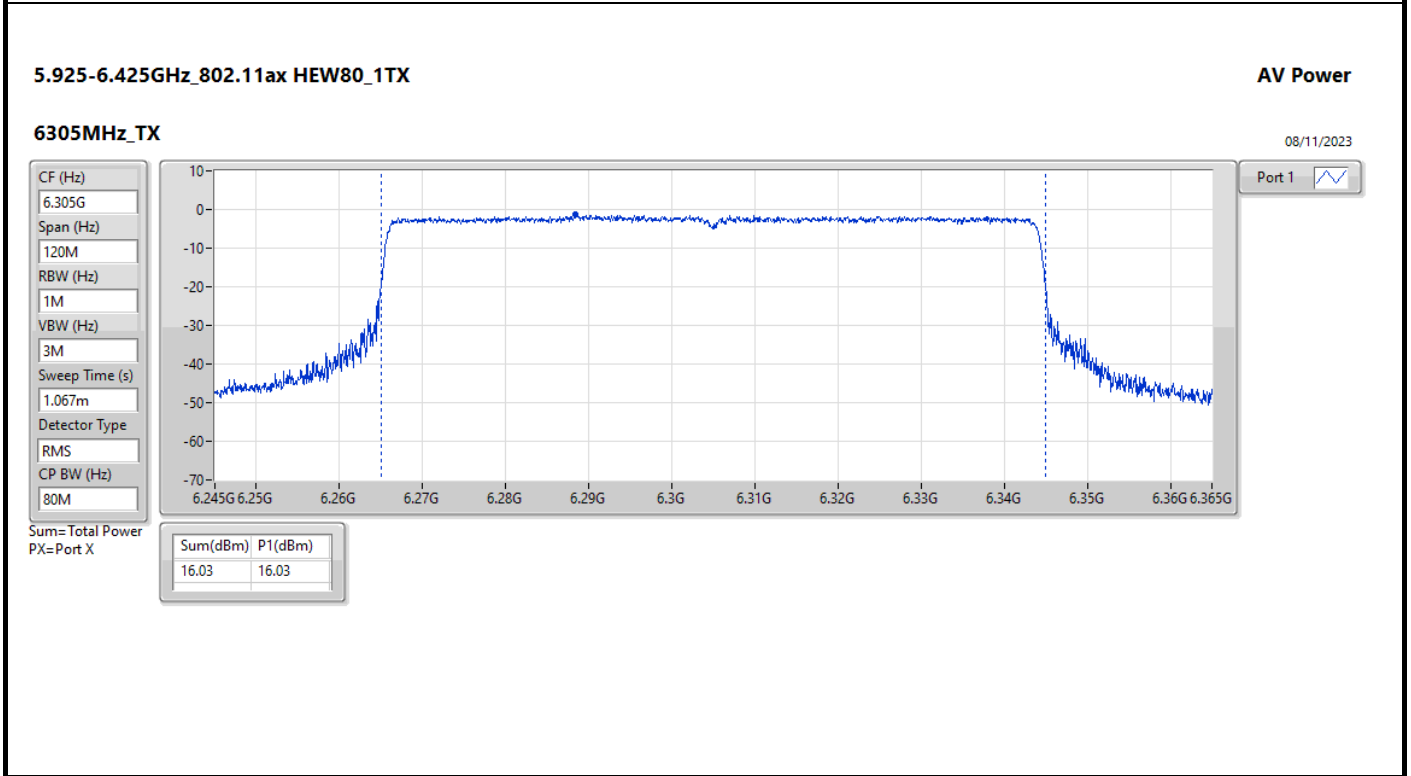
Detector Type
RMS

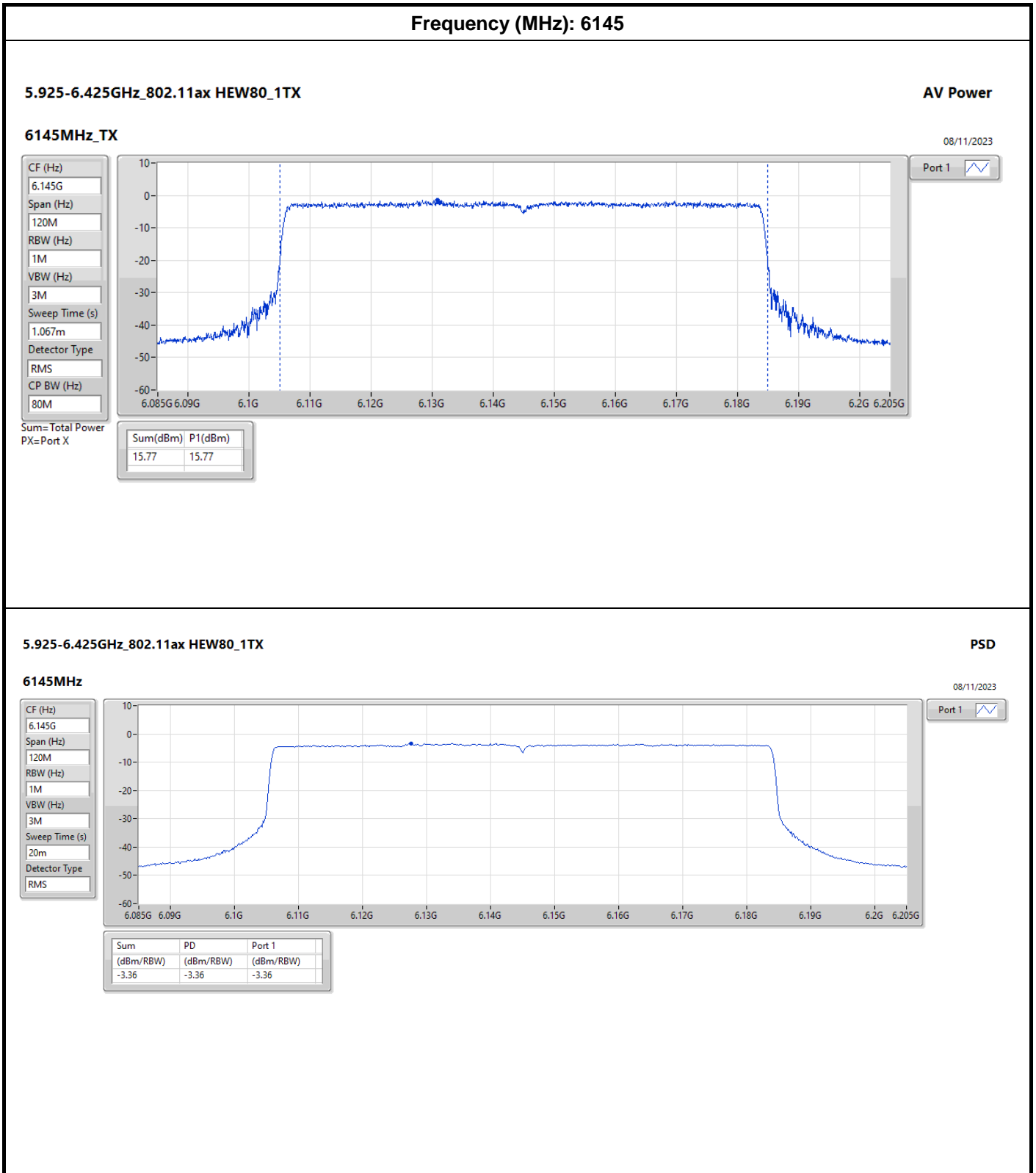


Port 1

| Sum | PD | Port 1 |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -4.27 | -4.27 | -4.27 |

Frequency (MHz): 6305





CT_AFC_SP_AP_AFCDRSA31_Channel_160MHz_10621_1

Frequency (MHz): 6345

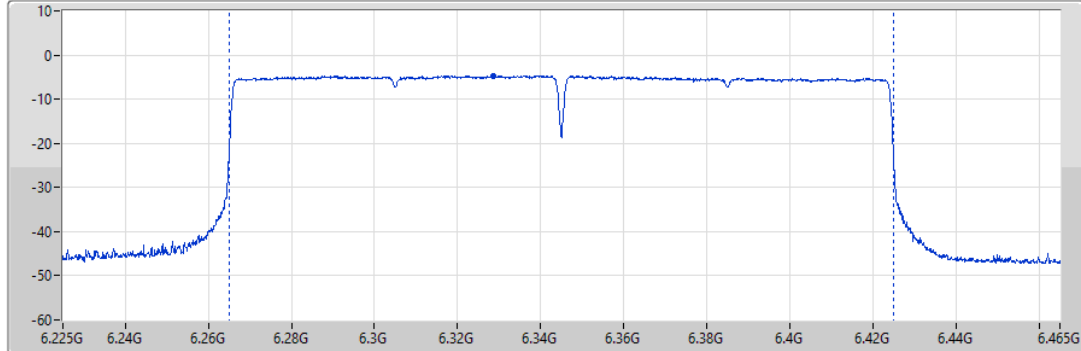
5.925-6.425GHz_802.11ax HEW160_1TX

AV Power

6345MHz_TX

08/11/2023

- CF (Hz)
6.345G
- Span (Hz)
240M
- RBW (Hz)
1M
- VBW (Hz)
3M
- Sweep Time (s)
20m
- Detector Type
RMS
- CP BW (Hz)
160M



Port 1

Sum= Total Power
PX=Port X

| Sum(dBm) | P1(dBm) |
|----------|---------|
| 16.35 | 16.35 |

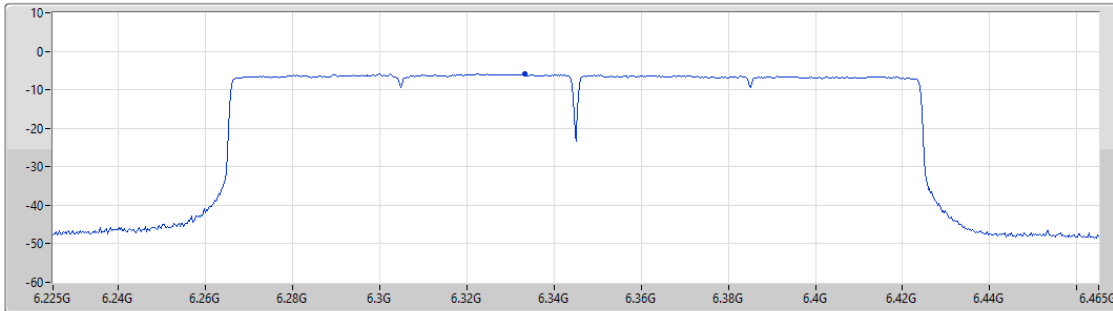
5.925-6.425GHz_802.11ax HEW160_1TX

PSD

6345MHz

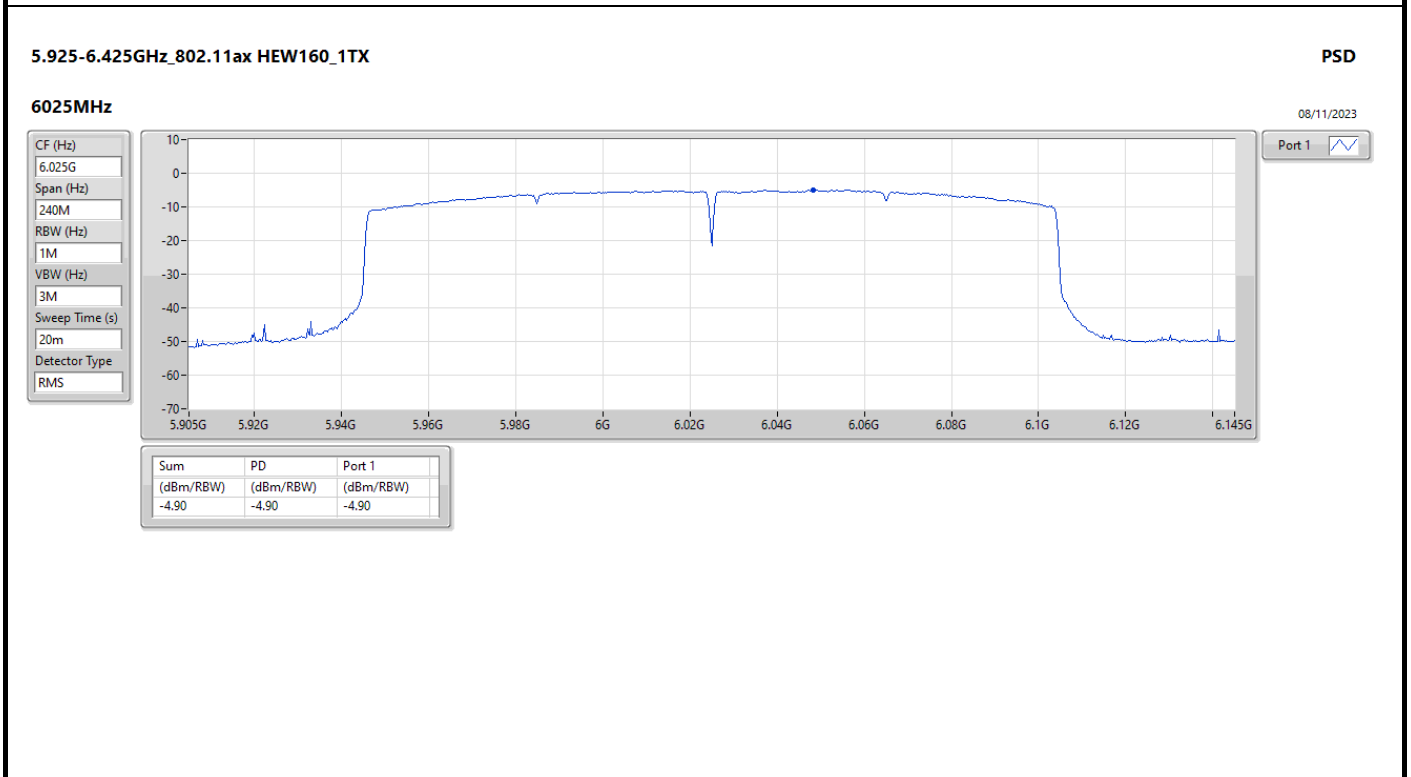
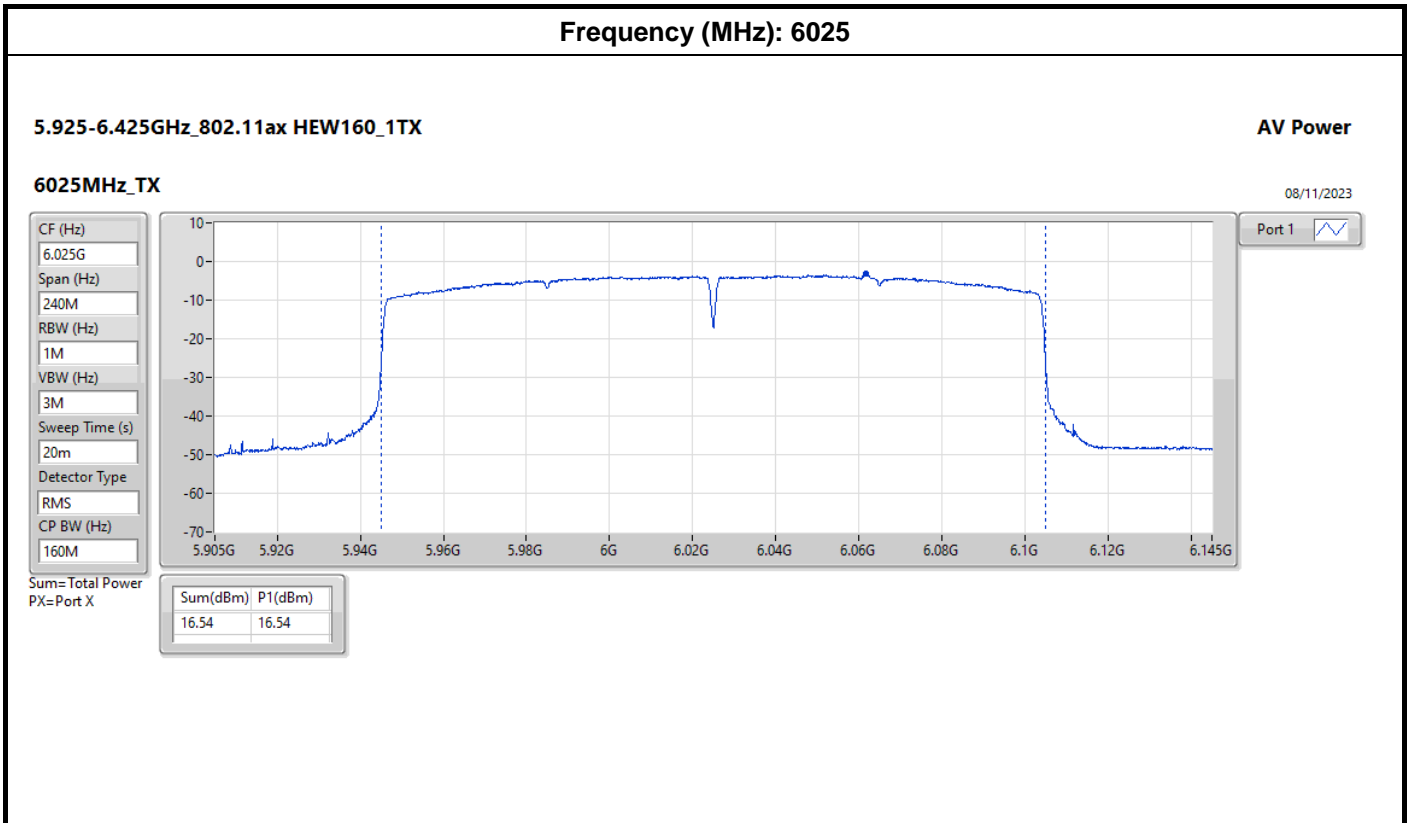
08/11/2023

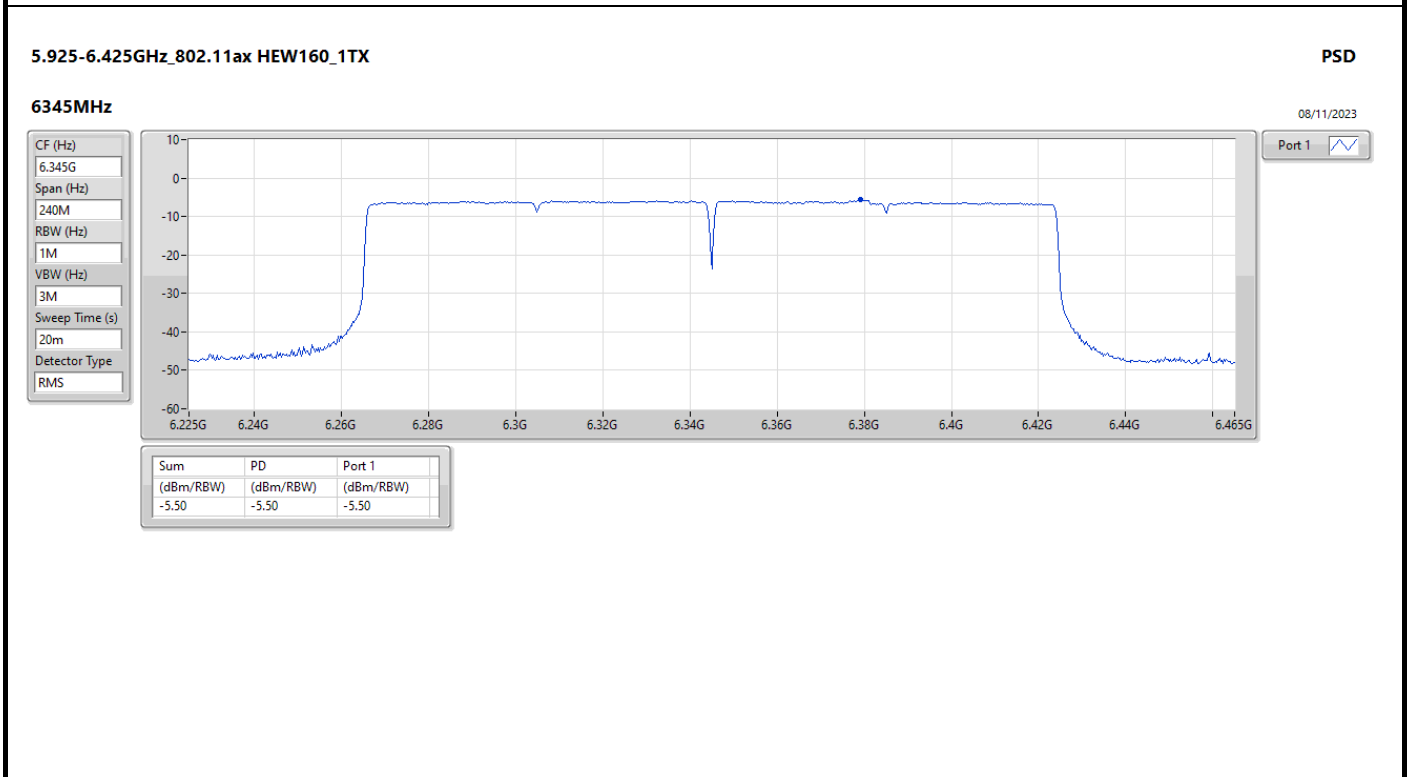
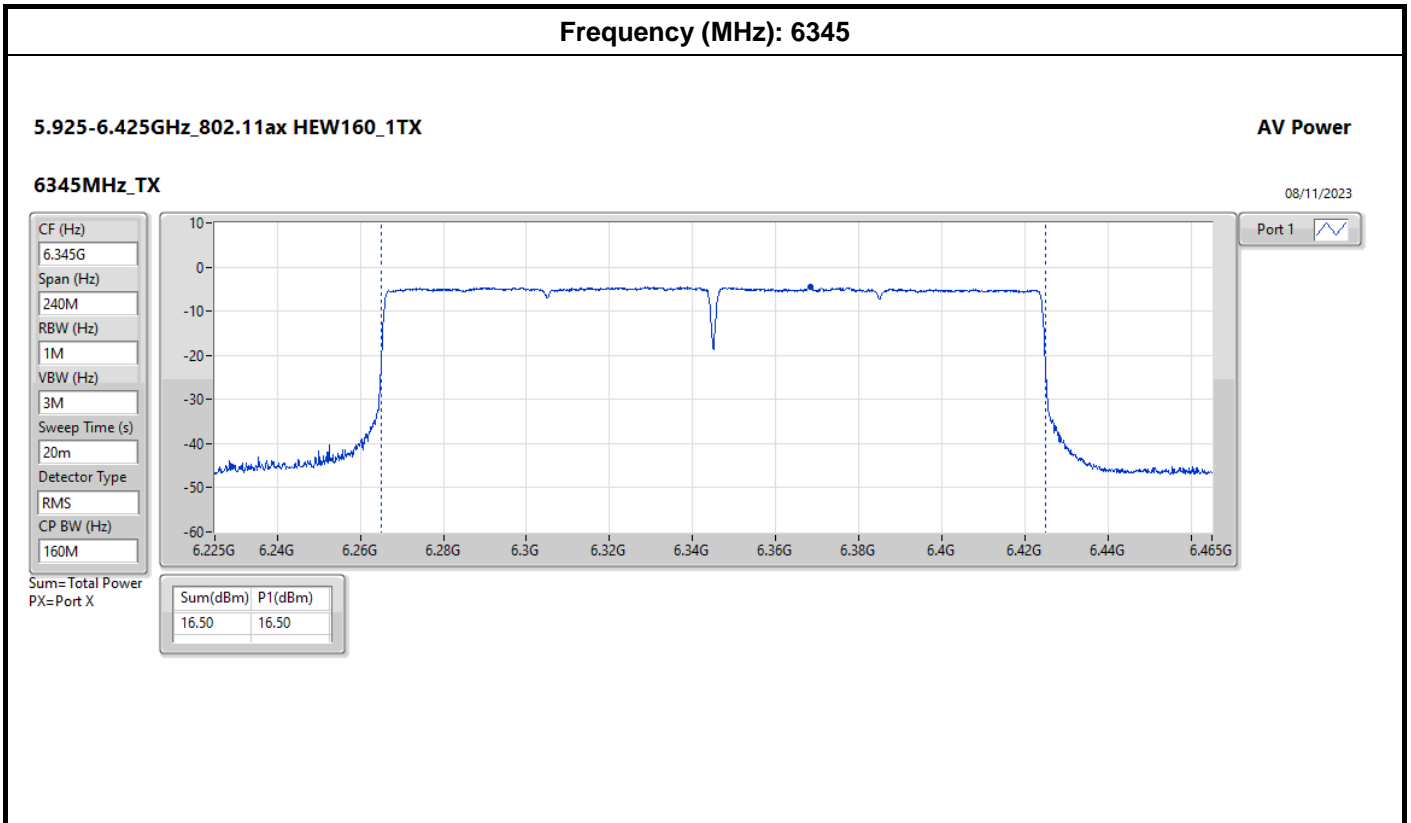
- CF (Hz)
6.345G
- Span (Hz)
240M
- RBW (Hz)
1M
- VBW (Hz)
3M
- Sweep Time (s)
20m
- Detector Type
RMS



Port 1

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





CT_AFC_SP_AP_AFCDUSA32_Channel_10622_1

Bandwidth: 20MHz

Frequency (MHz): 6295

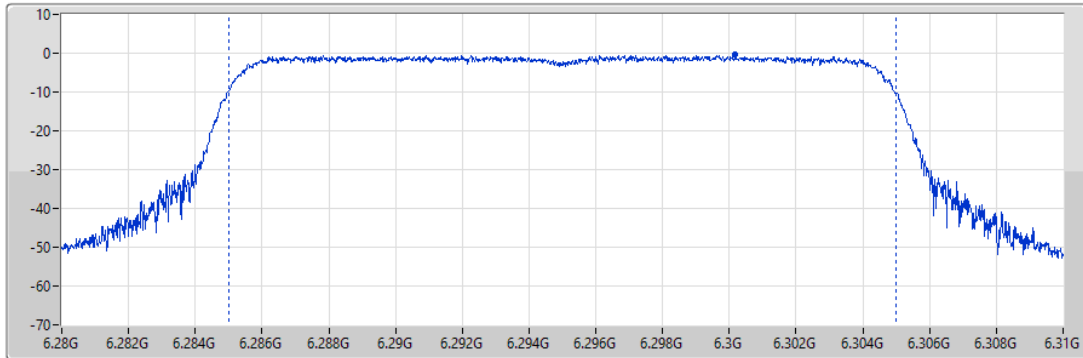
5.925-6.425GHz_802.11ax HEW20_1TX

AV Power

6295MHz_TX

08/11/2023

- CF (Hz)
6.295G
- Span (Hz)
30M
- RBW (Hz)
1M
- VBW (Hz)
3M
- Sweep Time (s)
1.067m
- Detector Type
RMS
- CP BW (Hz)
20M



Port 1

Sum= Total Power
PX=Port X

| Sum(dBm) | P1(dBm) |
|----------|---------|
| 10.90 | 10.90 |

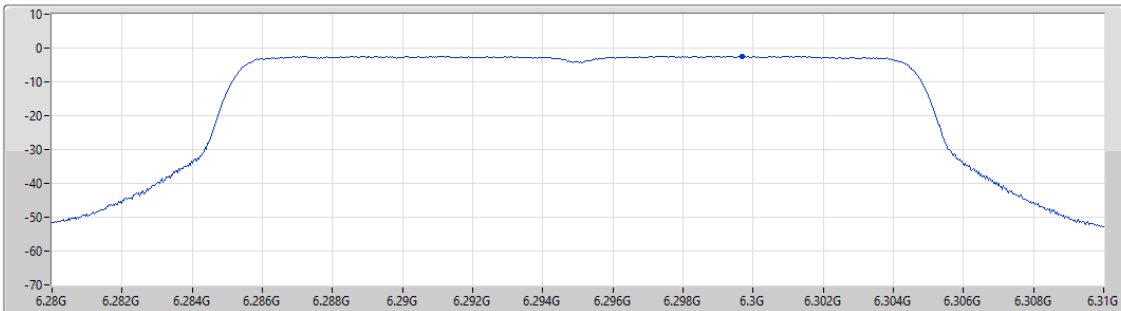
5.925-6.425GHz_802.11ax HEW20_1TX

PSD

6295MHz

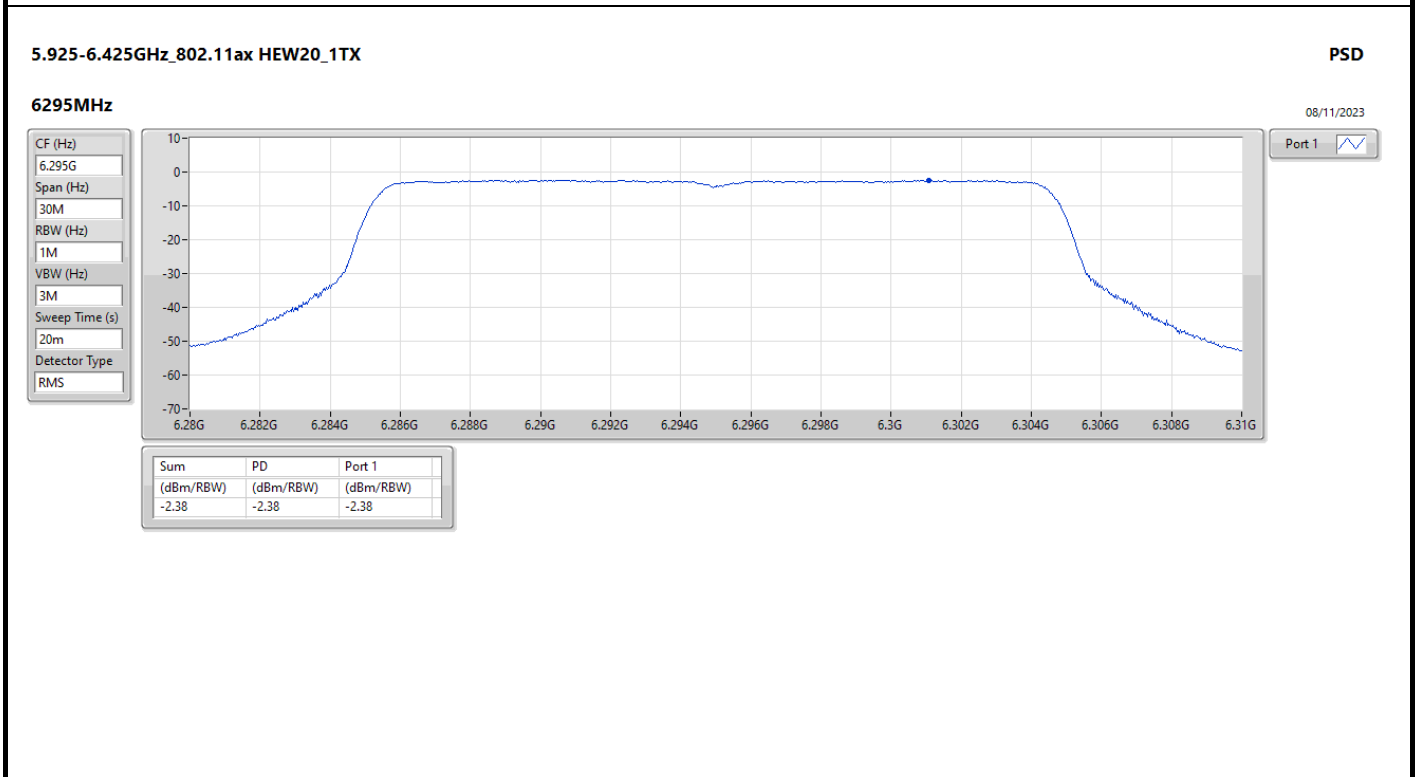
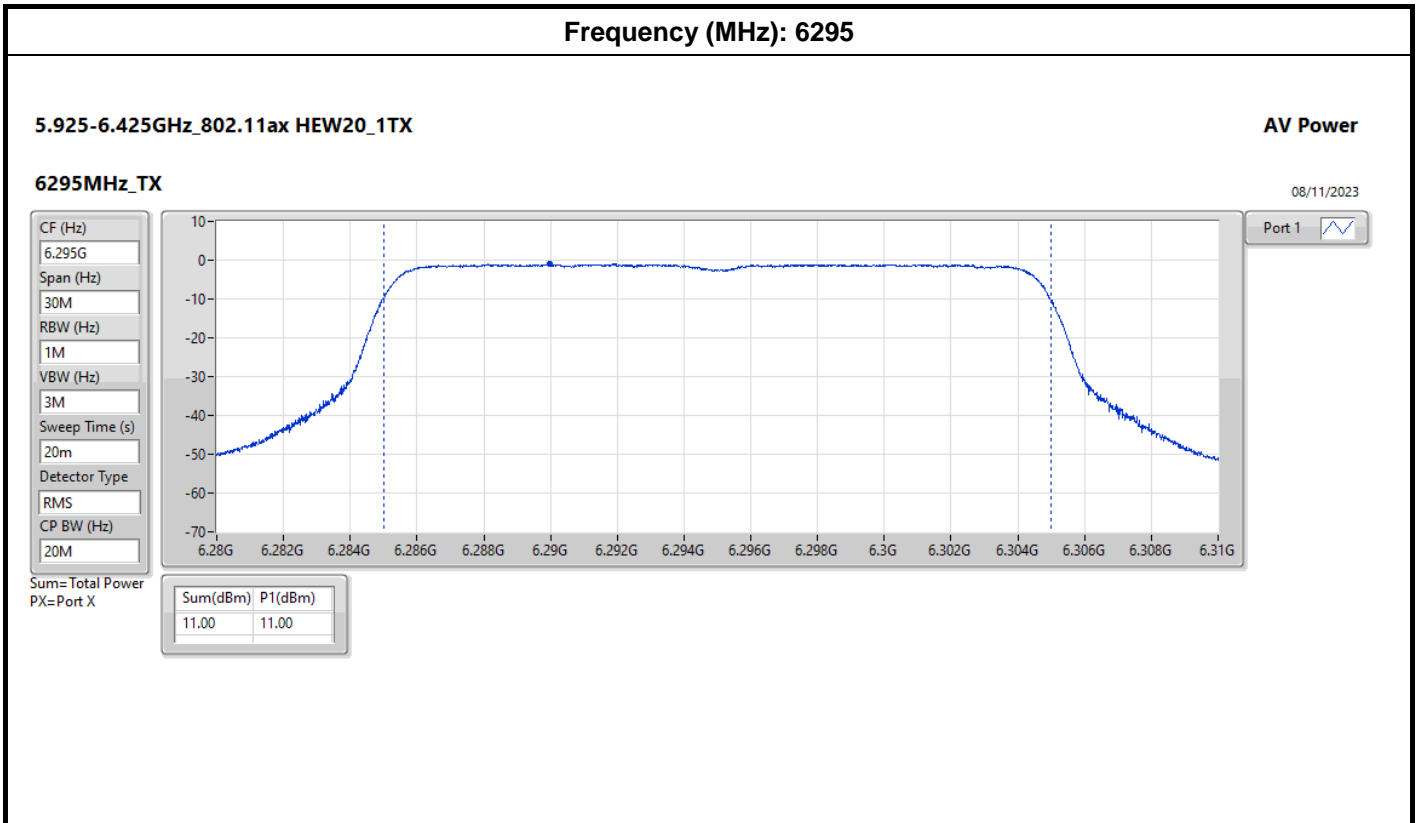
08/11/2023

- CF (Hz)
6.295G
- Span (Hz)
30M
- RBW (Hz)
1M
- VBW (Hz)
3M
- Sweep Time (s)
20m
- Detector Type
RMS



Port 1

| Sum | PD | Port 1 |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -2.39 | -2.39 | -2.39 |



CT_AFC_SP_AP_AFCDSAU33_Channel_10623_1

Bandwidth: 20MHz

Frequency (MHz): 6295

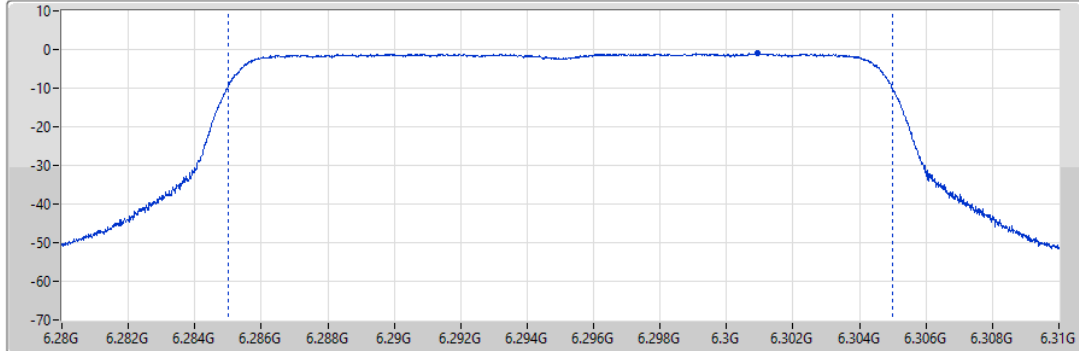
5.925-6.425GHz_802.11ax HEW20_1TX

AV Power

6295MHz_TX

08/11/2023

- CF (Hz) 6.295G
- Span (Hz) 30M
- RBW (Hz) 1M
- VBW (Hz) 3M
- Sweep Time (s) 20m
- Detector Type RMS
- CP BW (Hz) 20M



Port 1

Sum= Total Power
PX=Port X

| Sum(dBm) | P1(dBm) |
|----------|---------|
| 10.96 | 10.96 |

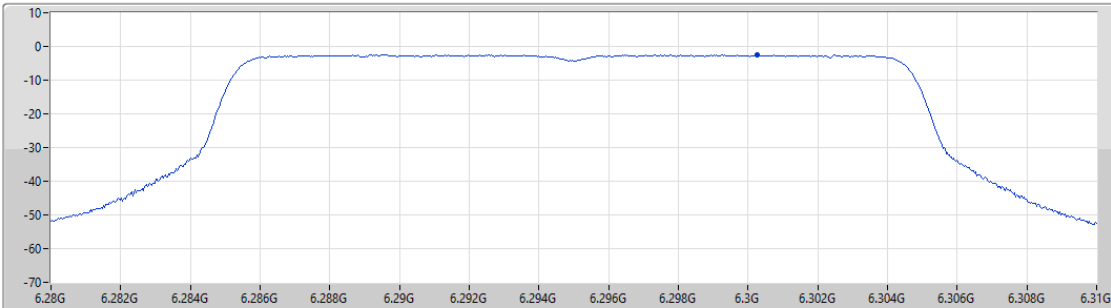
5.925-6.425GHz_802.11ax HEW20_1TX

PSD

6295MHz

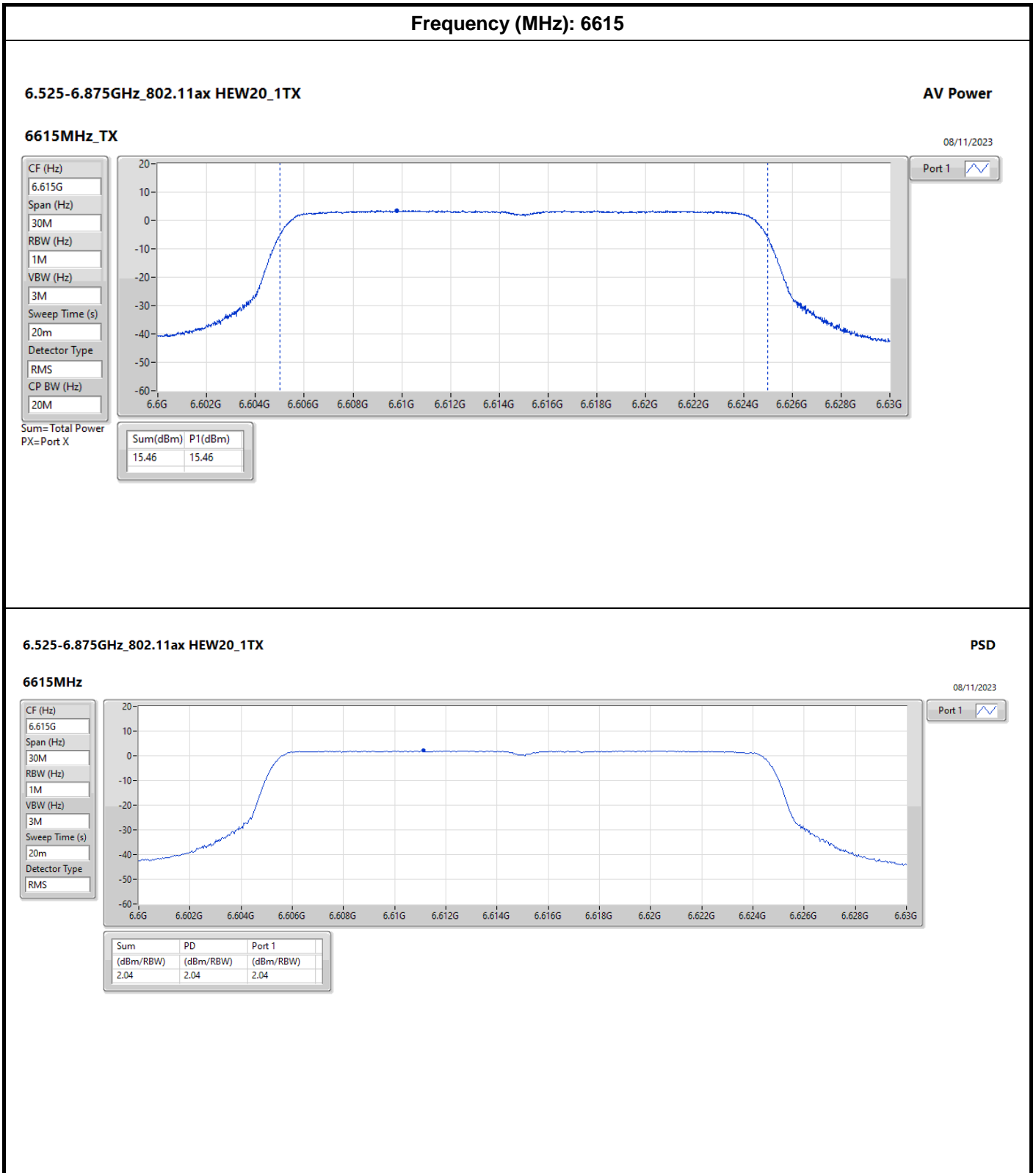
08/11/2023

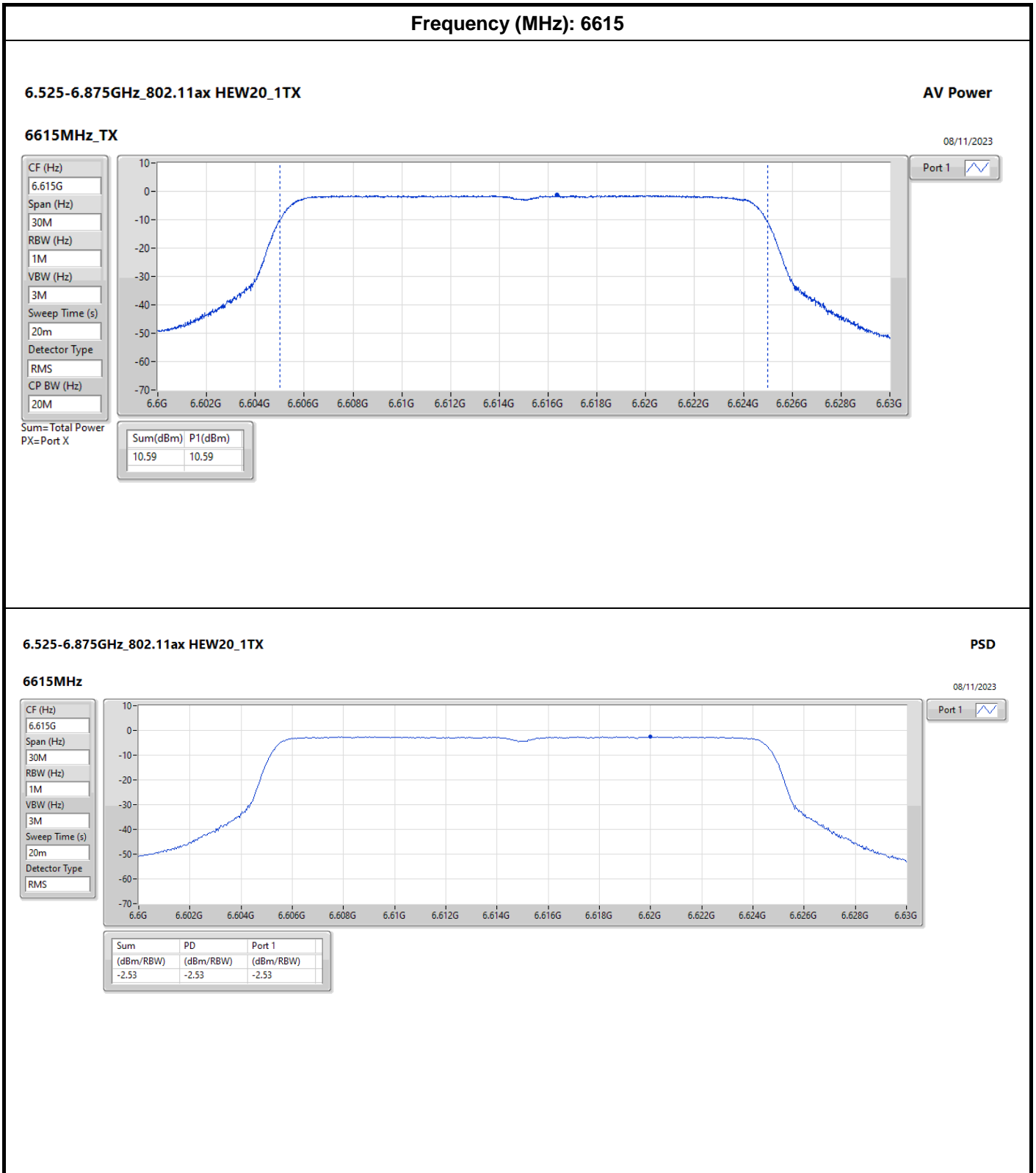
- CF (Hz) 6.295G
- Span (Hz) 30M
- RBW (Hz) 1M
- VBW (Hz) 3M
- Sweep Time (s) 20m
- Detector Type RMS



Port 1

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





CT_AFC_SP_AP_AFCDUAU34_Channel_10624_1

Bandwidth: 20MHz

Frequency (MHz): 6615

6.525-6.875GHz_802.11ax HEW20_1TX

AV Power

6615MHz_TX

08/11/2023

CF (Hz)
6.615G

Span (Hz)
30M

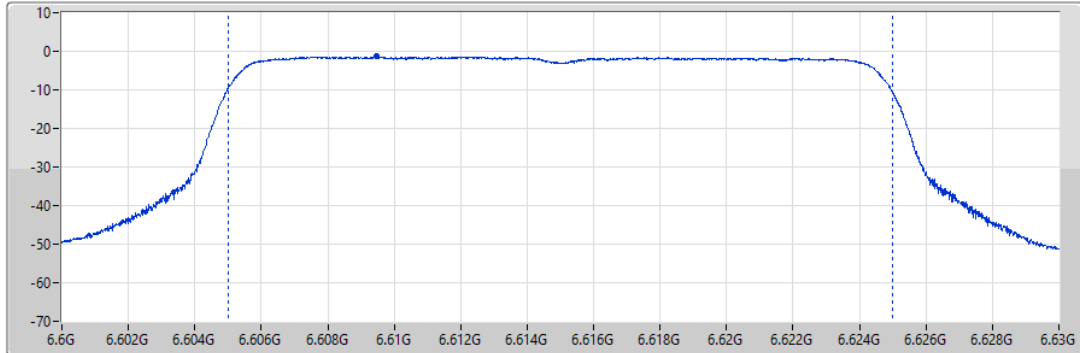
RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
20m

Detector Type
RMS

CP BW (Hz)
20M



Port 1

Sum= Total Power
PX=Port X

| Sum(dBm) | P1(dBm) |
|----------|---------|
| 10.55 | 10.55 |

6.525-6.875GHz_802.11ax HEW20_1TX

PSD

6615MHz

08/11/2023

CF (Hz)
6.615G

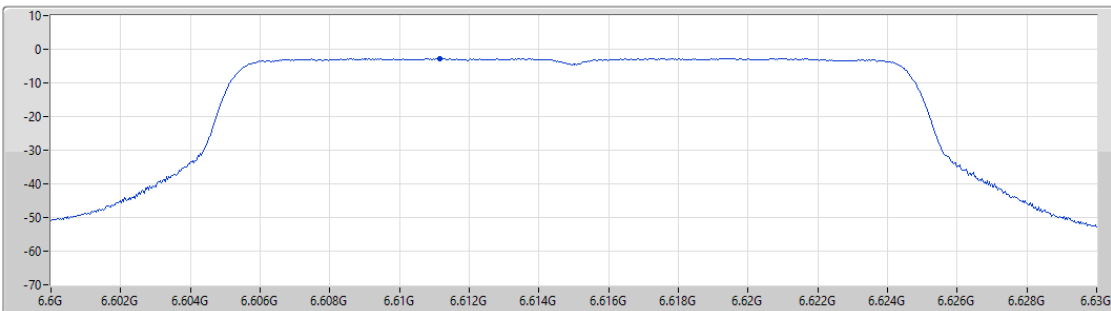
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
20m

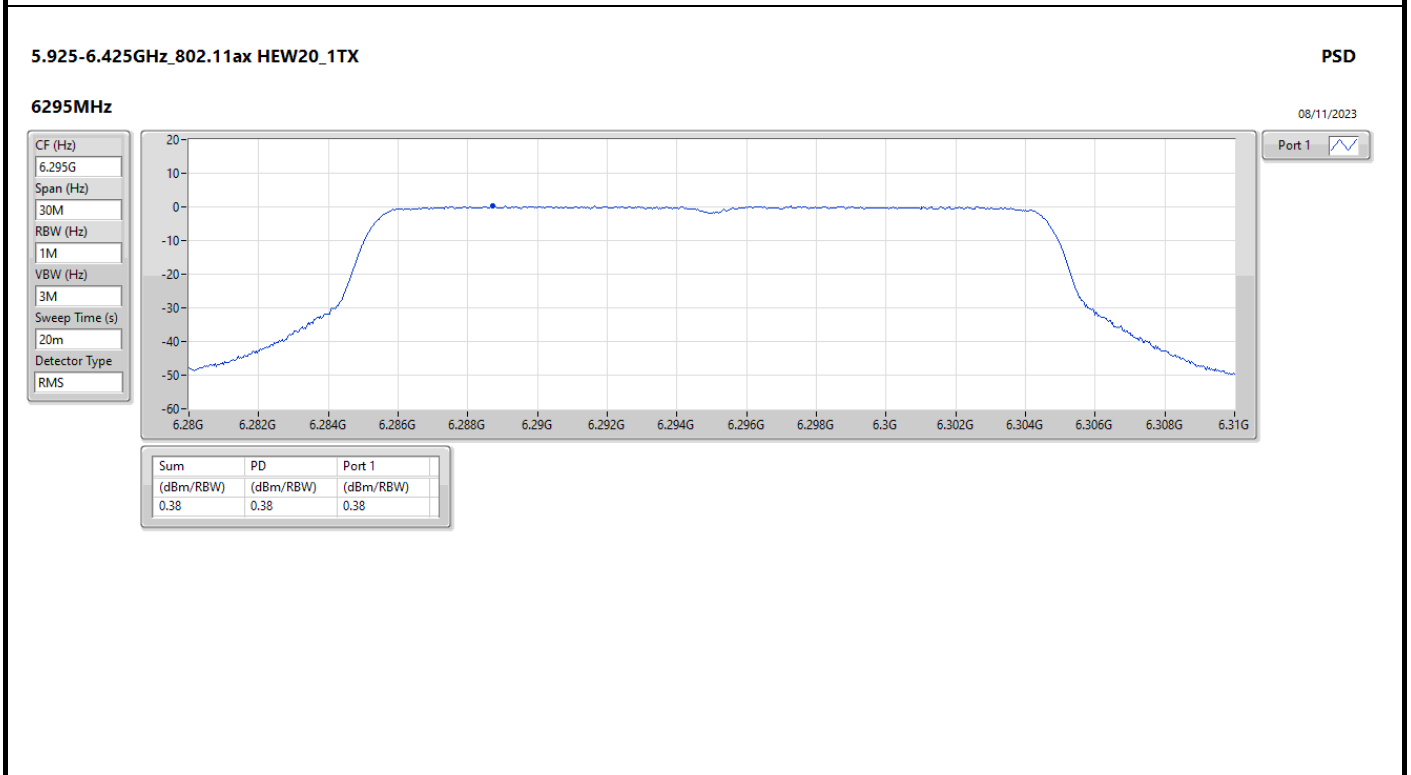
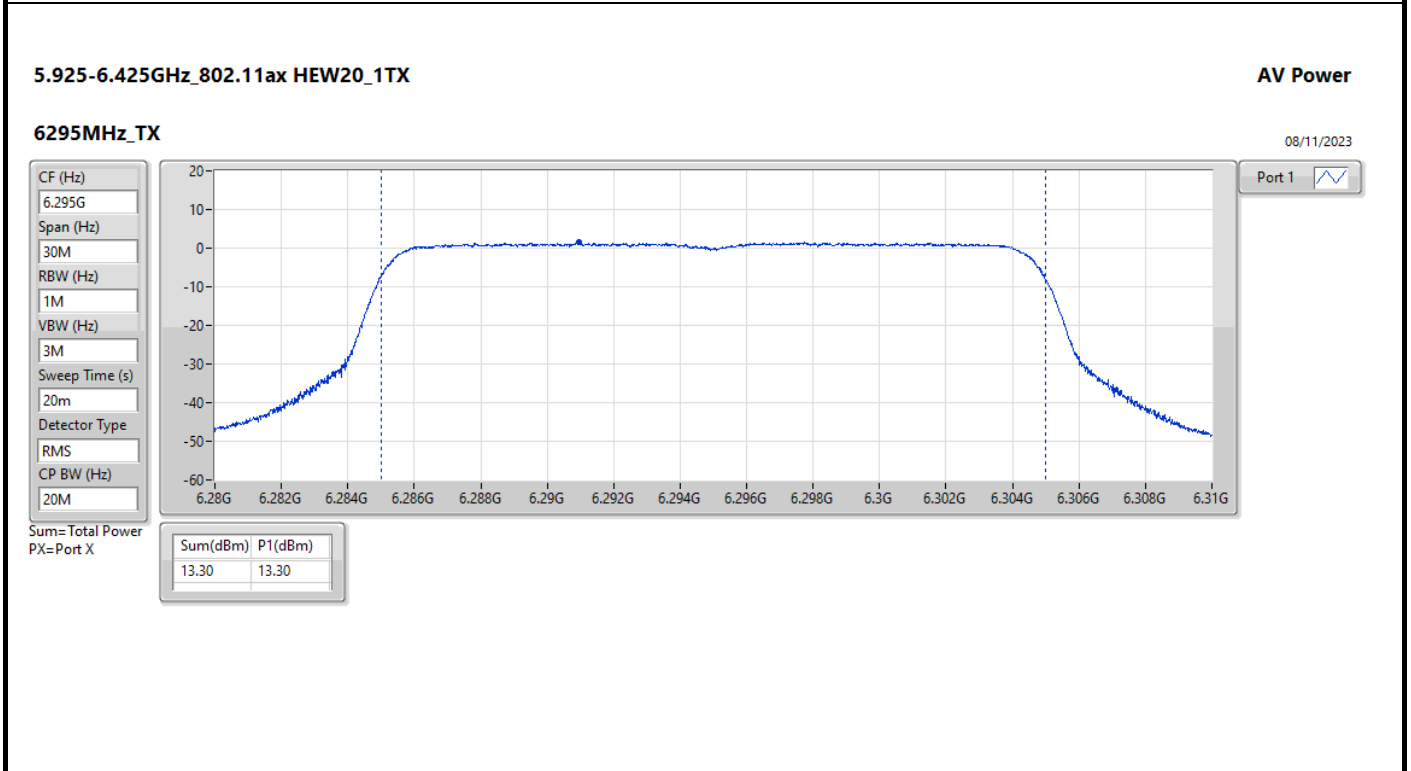
Detector Type
RMS

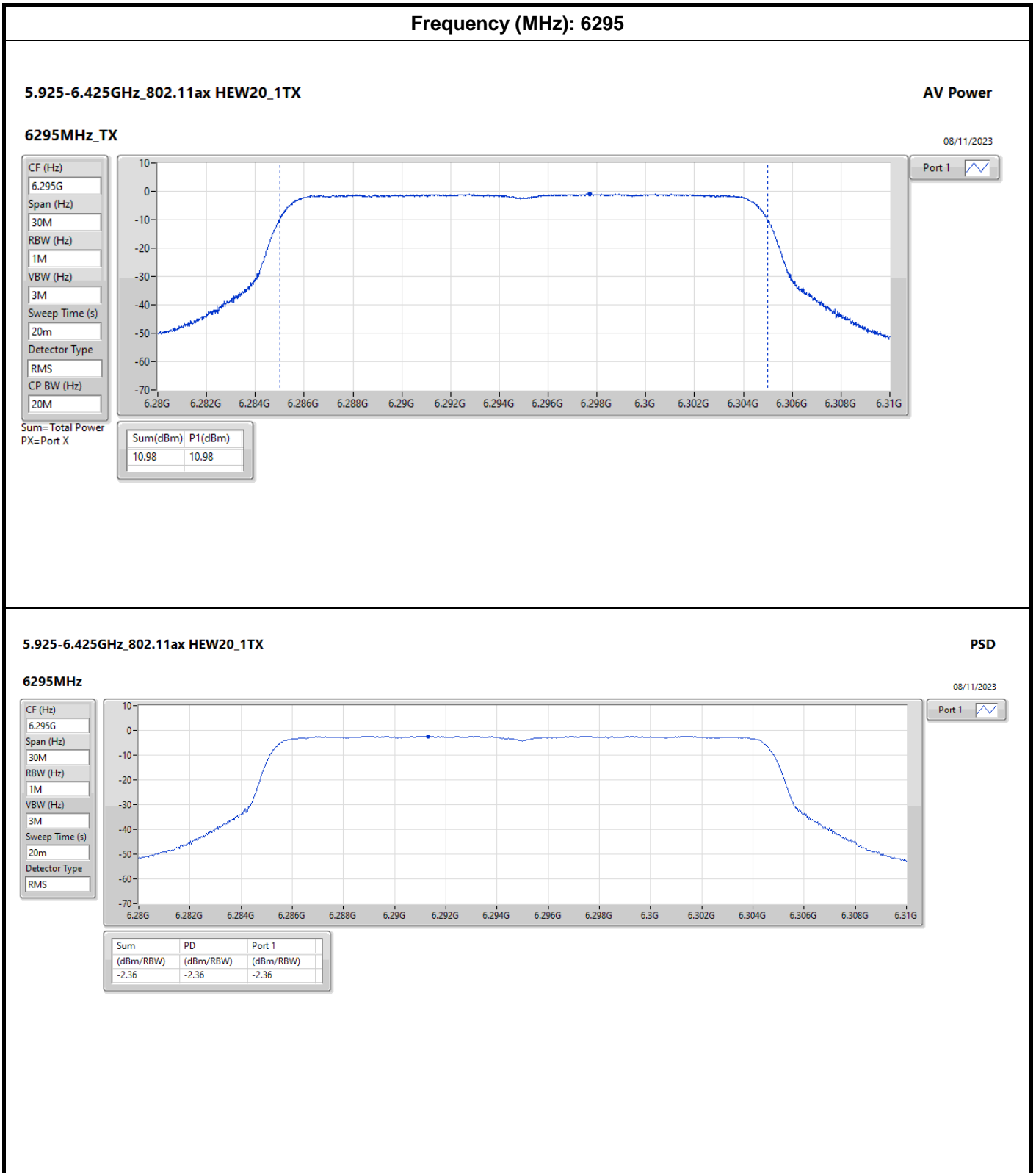


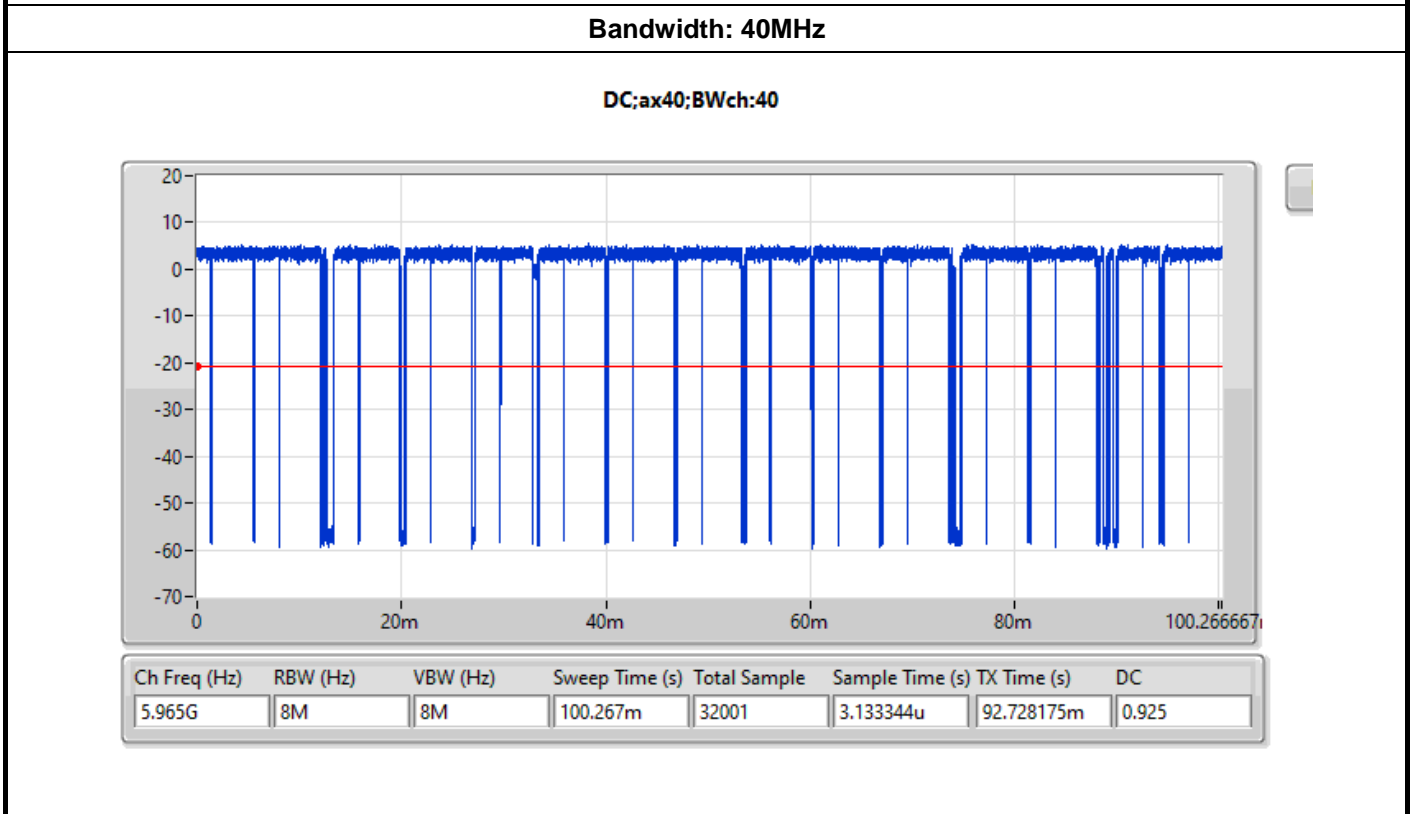
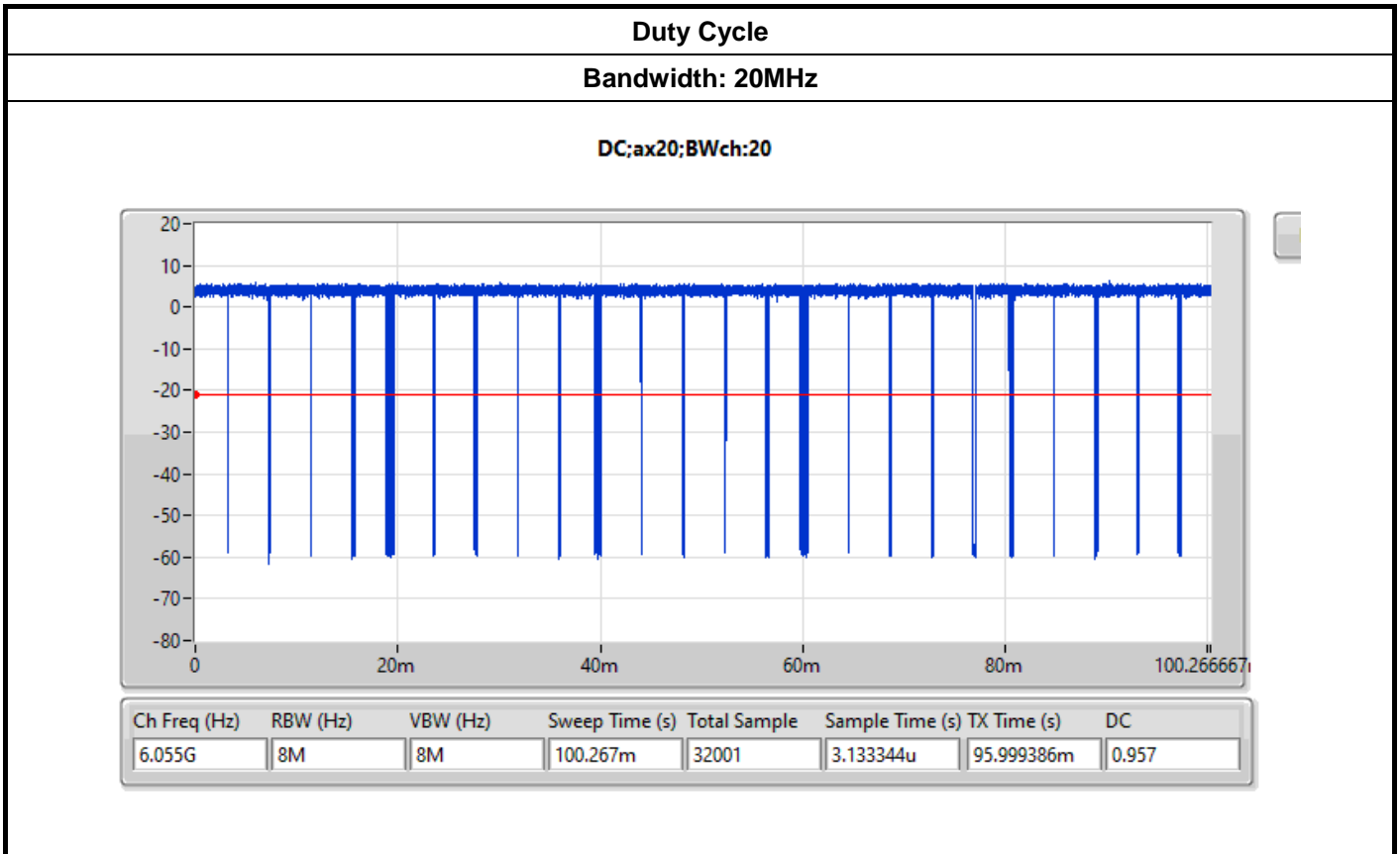
Port 1

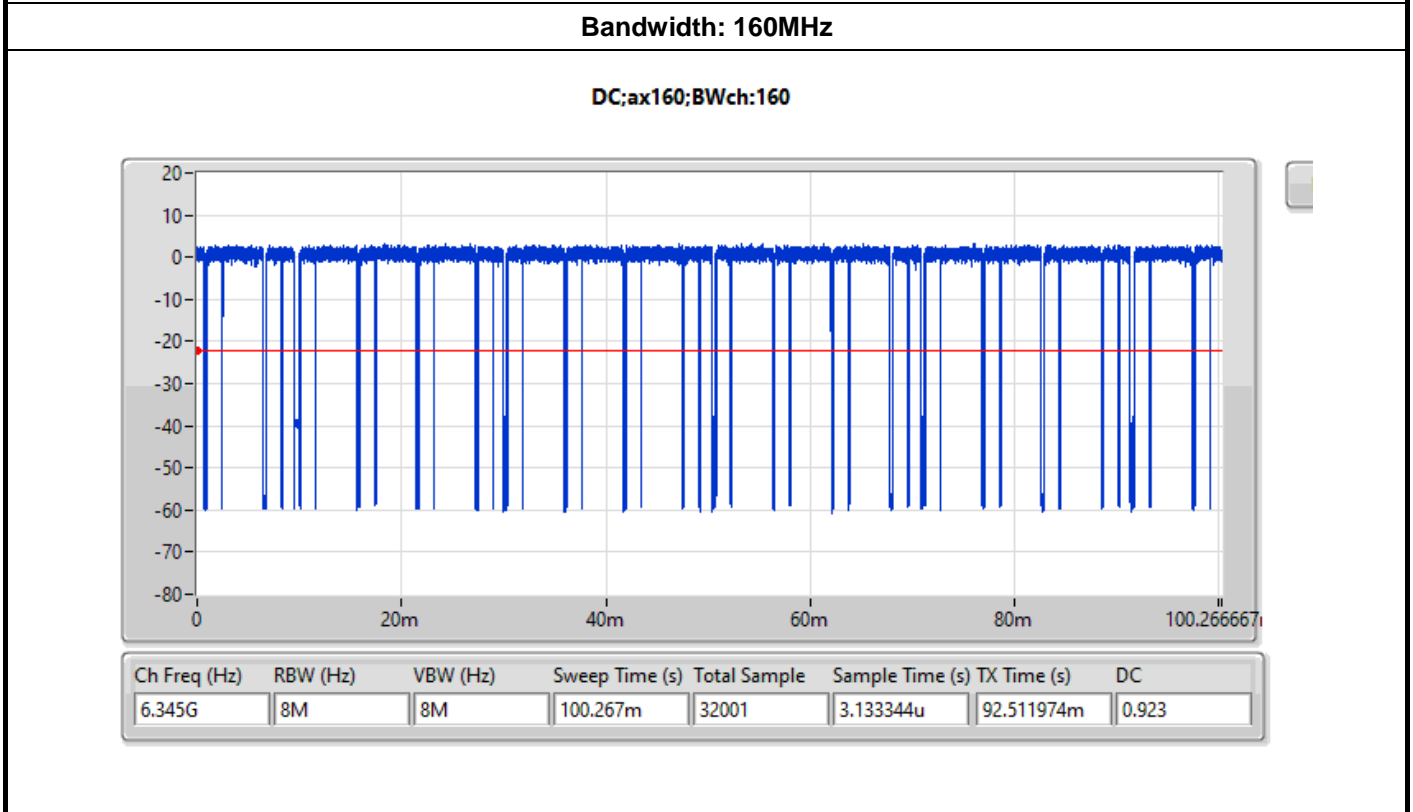
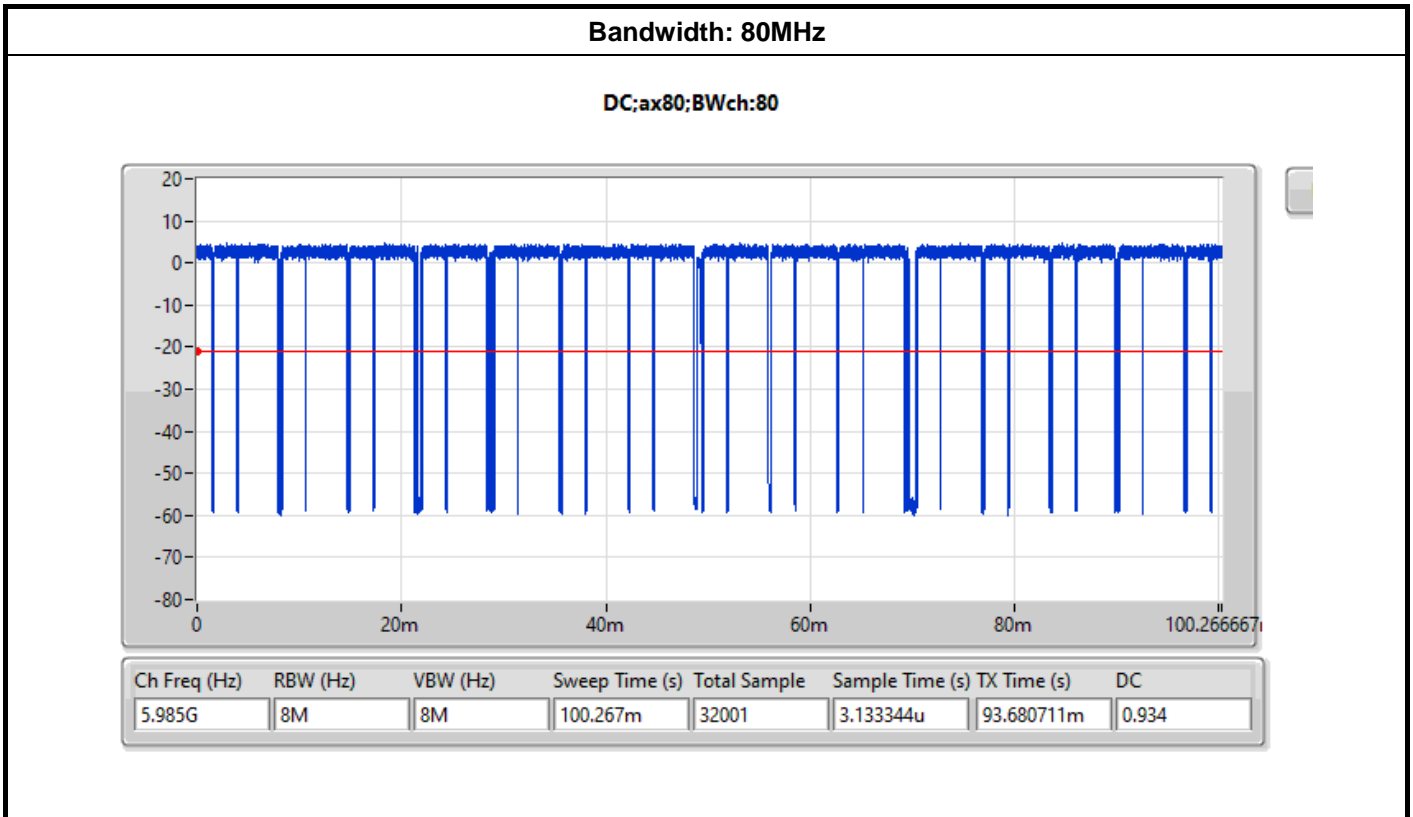
| Sum | PD | Port 1 |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -2.69 | -2.69 | -2.69 |

Frequency (MHz): 6295









—THE END—