



# AFC DUT TEST HARNESS REPORT

**FCC ID** : 2BCGWBE65V2

**Equipment** : BE11000 Whole Home Mesh Wi-Fi 7 System

**Brand Name** : tp-link

**Model Name** : Deco BE65, Deco BE63, Deco BE11000, Deco BE65 Pro

**Applicant** : TP-LINK CORPORATION PTE.LTD.  
7 Temasek Boulevard #29-03 Suntec Tower One,  
Singapore 038987

**Manufacturer** : TP-LINK CORPORATION PTE.LTD.  
7 Temasek Boulevard #29-03 Suntec Tower One,  
Singapore 038987

**Standard** : 47 CFR FCC Part 15.407

The product was received on Jul. 31, 2024, and testing was started from Sep. 19, 2024 and completed on Oct. 16, 2024. 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 1.7 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

**Sporton International Inc. Hsinchu Laboratory**

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



## Table of Contents

|          |                                                           |           |
|----------|-----------------------------------------------------------|-----------|
| <b>1</b> | <b>General Description .....</b>                          | <b>6</b>  |
| 1.1      | Product Feature of Equipment Under Test .....             | 6         |
| 1.2      | Antenna Information .....                                 | 7         |
| 1.3      | Table for EUT supports function .....                     | 9         |
| 1.4      | Table for Multiple Listing .....                          | 9         |
| 1.5      | Accessories .....                                         | 9         |
| 1.6      | Support Equipment .....                                   | 10        |
| 1.7      | Applicable Standards .....                                | 10        |
| 1.8      | Testing Location .....                                    | 10        |
| <b>2</b> | <b>Measurement Environment .....</b>                      | <b>11</b> |
| 2.1      | AFCD General Capabilities Declaration .....               | 11        |
| 2.2      | Test Configuration .....                                  | 12        |
| <b>3</b> | <b>Protocol Test Results .....</b>                        | <b>14</b> |
| 3.1      | Successful Registration and Spectrum Access Request ..... | 14        |
| 3.2      | Unsuccessful Spectrum Access Request .....                | 16        |
| 3.3      | Successful Spectrum Access Update .....                   | 17        |
| 3.4      | Unsuccessful Spectrum Access Update .....                 | 19        |
| 3.5      | Unsuccessful Server Validation .....                      | 21        |
| <b>4</b> | <b>Test Equipment and Calibration Data .....</b>          | <b>22</b> |
| <b>5</b> | <b>Measurement Uncertainty .....</b>                      | <b>23</b> |

Appendix A. Tools Report

Appendix B. DUT Spectrum Inquiry Request/Response Logs

Appendix C. RF Measurement Plots

Photographs of EUT v01



TEL : 886-3-656-9065  
FAX : 886-3-656-9085  
Report Template No.: CB-A12\_7 Ver2.0



## Summary of Test Result

| Report Clause                                              | Ref Std. Clause | Test Case Name                                                      | Result (PASS/FAIL) | Remark |
|------------------------------------------------------------|-----------------|---------------------------------------------------------------------|--------------------|--------|
| <b>AFC capability - Inquired Frequency</b>                 |                 |                                                                     |                    |        |
| <b>Test Group: Inquired Frequency - Always</b>             |                 |                                                                     |                    |        |
| 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_AFCDUUAU34_Frequency_10617_1                           | N/A                | -      |
| 3.1                                                        | 3.1.4           | CT_AFC_SP_AP_AFCDRSA31_Frequency_320MHz_10713_1                     | N/A                | -      |
| <b>AFC capability - Inquired Channel</b>                   |                 |                                                                     |                    |        |
| <b>Test Group: Inquired Channel - Always</b>               |                 |                                                                     |                    |        |
| 3.1                                                        | 3.1.4           | CT_AFC_SP_AP_AFCDRSA31_Channel_20MHz_10618_1                        | N/A                | -      |
| 3.1                                                        | 3.1.4           | CT_AFC_SP_AP_AFCDRSA31_Channel_40MHz_10619_1                        | N/A                | -      |
| 3.1                                                        | 3.1.4           | CT_AFC_SP_AP_AFCDRSA31_Channel_80MHz_10620_1                        | N/A                | -      |
| 3.1                                                        | 3.1.4           | CT_AFC_SP_AP_AFCDRSA31_Channel_160MHz_10621_1                       | N/A                | -      |
| 3.2                                                        | 3.2.4           | CT_AFC_SP_AP_AFCDUSA32_Channel_10622_1                              | N/A                | -      |
| 3.3                                                        | 3.3.4           | CT_AFC_SP_AP_AFCDSAU33_Channel_10623_1                              | N/A                | -      |
| 3.4                                                        | 3.4.4           | CT_AFC_SP_AP_AFCDUUAU34_Channel_10624_1                             | N/A                | -      |
| 3.1                                                        | 3.1.4           | CT_AFC_SP_AP_AFCDRSA31_Channel_320MHz_10714_1                       | N/A                | -      |
| <b>AFC capability - Inquired Frequency &amp; Channel</b>   |                 |                                                                     |                    |        |
| <b>Test Group: Inquired Frequency and Channel - Always</b> |                 |                                                                     |                    |        |
| 3.1                                                        | 3.1.4           | CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_20MHz_10625_1               | PASS               | -      |
| 3.1                                                        | 3.1.4           | CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_40MHz_10626_1               | PASS               | -      |
| 3.1                                                        | 3.1.4           | CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_80MHz_10627_1               | PASS               | -      |
| 3.1                                                        | 3.1.4           | CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_160MHz_10628_1              | PASS               | -      |
| 3.2                                                        | 3.2.4           | CT_AFC_SP_AP_AFCDUSA32_FrequencyChannel_10629_1                     | PASS               | -      |
| 3.3                                                        | 3.3.4           | CT_AFC_SP_AP_AFCDSAU33_FrequencyChannel_10630_1                     | PASS               | -      |
| 3.4                                                        | 3.4.4           | CT_AFC_SP_AP_AFCDUUAU34_FrequencyChannel_10631_1                    | PASS               | -      |
| 3.1                                                        | 3.1.4           | CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_320MHz_10715_1              | PASS               | -      |
| <b>AFC capability - Server Validation – Mandatory</b>      |                 |                                                                     |                    |        |
| <b>Test Group: Server Validation - Always</b>              |                 |                                                                     |                    |        |
| 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: Sandy Chuang**



## 1 General Description

### 1.1 Product Feature of Equipment Under Test

| Product Feature of Equipment Under Test |                                                                                                                                                                                                                                                             |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power Type                              | From power adapter                                                                                                                                                                                                                                          |
| EUT Type                                | <input type="checkbox"/> Standard Power Access Point with Proxy<br><input checked="" type="checkbox"/> Standard Power Access Point without Proxy<br><input type="checkbox"/> Fixed Client with Proxy<br><input type="checkbox"/> Fixed Client without Proxy |
| Bandwidth (MHz)                         | 20 / 40 / 80 / 160 / 320                                                                                                                                                                                                                                    |
| Condition of EUT                        | <input checked="" type="checkbox"/> Indoor<br><input type="checkbox"/> Outdoor                                                                                                                                                                              |
| Professional Installation               | <input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No                                                                                                                                                                                      |
| Firmware Version                        | 1.0.0 Build 20240905 Rel. 55360                                                                                                                                                                                                                             |
| Software Version                        | N/A                                                                                                                                                                                                                                                         |
| Hardware Version                        | N/A                                                                                                                                                                                                                                                         |

Note: The above information was declared by manufacturer.



## 1.2 Antenna Information

| Ant. | Port   |      |      | Brand   | Model Name | Ant. Type | Connector | Gain (dBi) |
|------|--------|------|------|---------|------------|-----------|-----------|------------|
|      | 2.4GHz | 5GHz | 6GHz |         |            |           |           |            |
| 1    | -      | -    | -    | TP-Link | Deco BE63  | Dipole    | I-PEX     | Note 1     |
| 2    | -      | -    | 2    | TP-Link | Deco BE63  | Franklin  | I-PEX     |            |
| 3    | -      | -    | -    | TP-Link | Deco BE63  | Dipole    | I-PEX     |            |
| 4    | -      | -    | 1    | TP-Link | Deco BE63  | Franklin  | I-PEX     |            |

Note 1

| Ant. | Gain (dBi) |                 |                 |
|------|------------|-----------------|-----------------|
|      | 2.4GHz     | 5GHz            | 6GHz            |
|      |            | UNII 1 ~ UNII 3 | UNII 5 ~ UNII 8 |
| 1    | 1.98       | 3.00            | -               |
| 2    | -          | -               | 3.00            |
| 3    | 1.85       | 3.00            | -               |
| 4    | -          | -               | 3.00            |

Note 2: The above information was declared by manufacturer.

Note 3: Directional gain information

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

Ex.

Directional Gain (NSS1) formula :

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

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,3) = 10^{G3/20} ; NSS1(g1,4) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] \Rightarrow 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where ;

$$6G\ UNII-5 / 7\ G1 = 3.0\ dBi; G2 = 3.0\ dBi;$$

$$6G\ UNII-5 / 7\ DG = 6.01\ dBi$$

Note 4

**For 2.4GHz function:**

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

**For 5GHz function:**

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

**For 6GHz function:**

**For IEEE 802.11ax/be (2TX/2RX):**

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

Port 1 and Port 2 could transmit/receive simultaneously.

### 1.3 Table for EUT supports function

| Function  |
|-----------|
| AP Router |
| Mesh      |

Note: The above information was declared by manufacturer.

### 1.4 Table for Multiple Listing

| Model Name                                        | Description                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Deco BE65, Deco BE63, Deco BE11000, Deco BE65 Pro | <p>a) The Deco BE63 and Deco BE11000 is exactly the same as the Deco BE65 except for the model.</p> <p>b) The Deco BE65 Pro has the different USB port, PHY/Switch solutions and the power for FEM from the Deco BE65, but the RF curcirt (including the schematic, layout, antenna, antenna position and RF parameters) is exactly the same as the Deco BE65.</p> |

Note 1: From the above models, model: Deco BE65 was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

### 1.5 Accessories

| Accessories                       |            |             |                                                    |
|-----------------------------------|------------|-------------|----------------------------------------------------|
| Equipment Name                    | Brand Name | Model Name  | Rating                                             |
| Adapter                           | tp-link    | T120250-2B4 | INPUT: 100-240V~50/60Hz, 0.8A<br>OUTPUT: 12V, 2.5A |
| Other                             |            |             |                                                    |
| RJ-45 cable*1: Non-shielded, 1.2m |            |             |                                                    |



## 1.6 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 | Qualcomm   | QCNCM865   | J9C-QCNCM865 |

## 1.7 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 1.7
- ♦ FCC KDB 987594 D05 v01r01

## 1.8 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<br>(°C / %) | Test Date                       |
|----------------|---------------|---------------|------------------------------|---------------------------------|
| RF Conducted   | TH01-CB       | Jay Lo        | 22.7~26.6 / 61~63.5          | Sep. 19, 2024~<br>Oct. 16, 2024 |



## 2 Measurement Environment

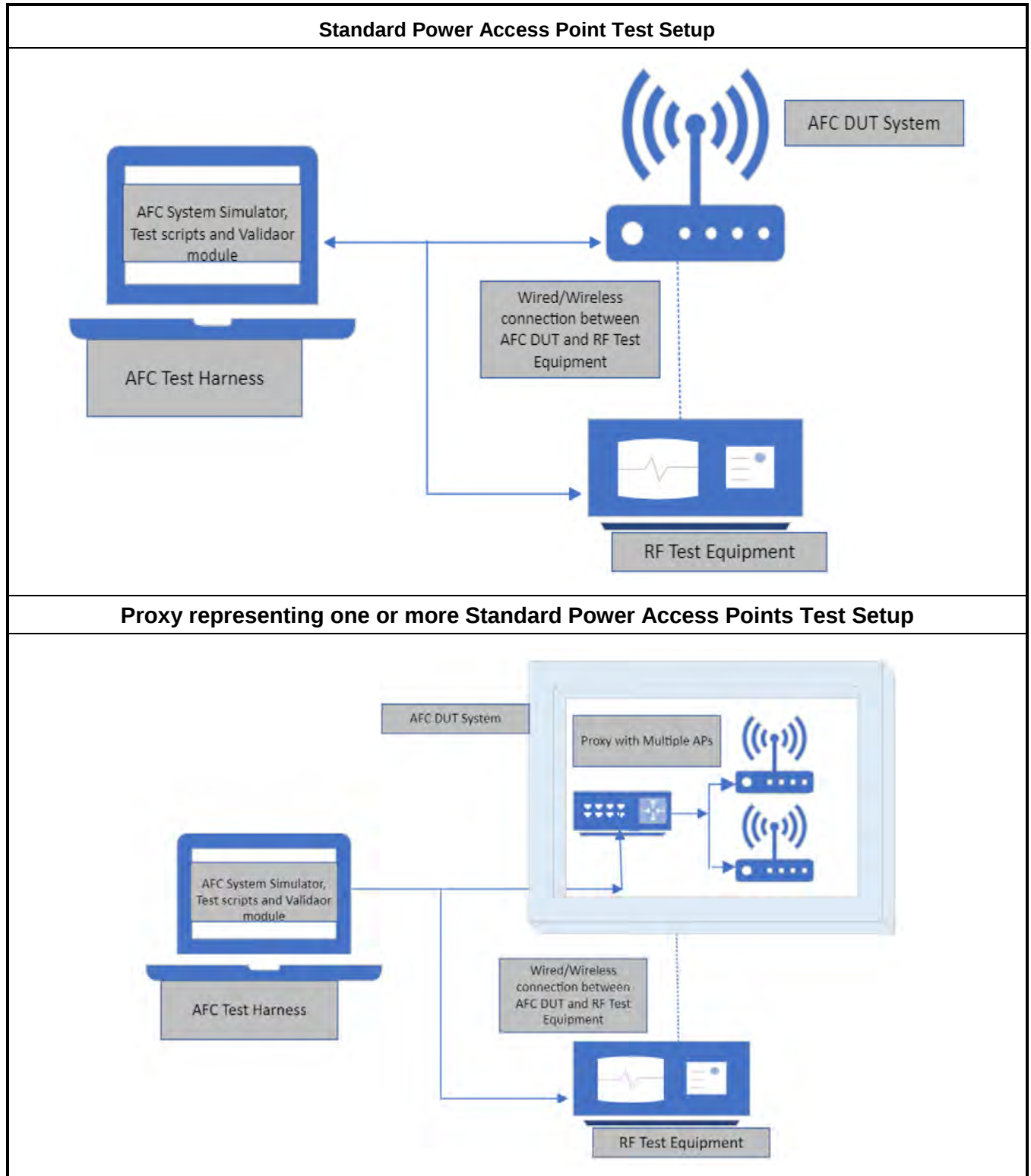
| Measurement Environment Information |            |
|-------------------------------------|------------|
| AFC DUT Test Harness version        | 2.0.65.184 |

### 2.1 AFCD General Capabilities Declaration

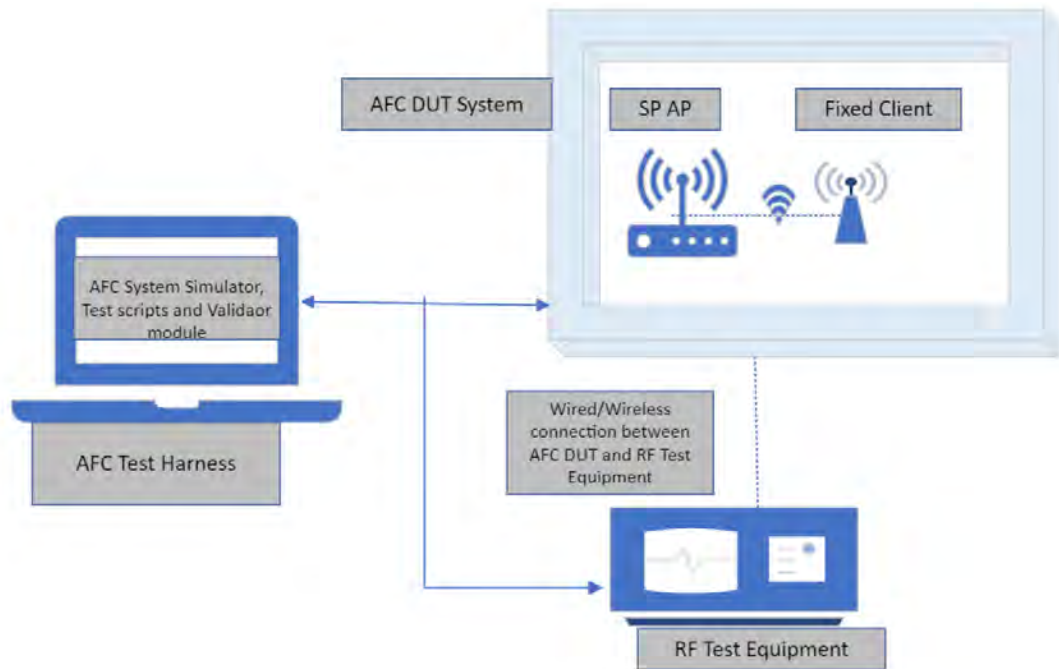
| Item | Question                                                                                                                        | Vendor Response |
|------|---------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1    | AFC DUT Type                                                                                                                    | Standalone AP   |
| 2    | Does the AFC DUT supports sending an Available Spectrum Inquiry Request based on the inquired Frequency Range field?            | Yes             |
| 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?                                                | Both            |
| 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?                                              | N/A             |
| 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?                      | N/A             |
| 11   | Does the AFC DUT supports 320 MHz channel width operation?                                                                      | Yes             |

Note: The above information was declared by manufacturer.

## 2.2 Test Configuration



### Fixed Client Device Test Setup





### 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.<br>If needed (see Table 9 declaration), configure the AFC DUT with BSS parameters per Table 14 and a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters.<br>Configure the AFC DUT with AFC System URL and server root certificate.<br>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 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"><li>• In the band if the AFC DUT supports only SP operation</li></ul> Or <ul style="list-style-type: none"><li>• Above LPI limits for AFC DUT whose manufacturer attests to its compliance with rules for LPI operation</li></ul> Wait for 60 seconds<br>RF Test Equipment monitors any transmission by the AFC DUT conforms to the following: <ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li></ul> |
| 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)<br>RF Test Equipment monitors any transmission by the AFC DUT conforms to the following: <ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li></ul>                                                                                                                                                                                                                                                                                                                                                                          |
| 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 9 declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters.<br>Configure the AFC DUT with AFC System URL and server root certificate.<br>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                                                                                                                                                                                                                                                                           |
| 20 | 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                                                                                       |
| 21 | 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                                                                                                                                                     |
| 22 | AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*                                                                                                                                                            |
| 23 | AFC DUT Test Harness validates the presence of mandatory registration information                                                                                                                                                                                                             |
| 24 | 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. |
| 25 | 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                                                                                                                                |
|    | 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.<br>If needed (see Table 9 declaration), configure the AFC DUT with BSS parameters per Table 14 and a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters.<br>Configure the AFC DUT with AFC System URL and server root certificate.<br>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"><li>• For SP only operation, AFC DUT does not transmit in the band.</li><li>• For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, the AFC DUT does not transmit above LPI limits.</li></ul>                                            |
| 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 9 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.<br>Configure the AFC DUT with AFC System URL and server root certificate.<br>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<br>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.<br>If needed (see Table 9 declaration), configure the DUT with BSS parameters per Table 14 and a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters.<br>Configure the AFC DUT with AFC System URL and server root certificate.<br>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"><li>• In the band if the AFC DUT supports only SP operation</li></ul> Or <ul style="list-style-type: none"><li>• Above LPI limits for AFC DUT whose manufacturer attests to its compliance with rules for LPI operation</li></ul> Wait for 60 seconds<br>RF Test Equipment monitors any transmission by the AFC DUT conforms to the following: <ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li></ul> |
| 7    | AFC DUT is power cycled.<br>If needed (see Table 9 declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID), new geographic coordinates, antenna height, and uncertainty parameters.<br>Configure the AFC DUT with AFC System URL and server root certificate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 8    | Wait for 60 seconds<br>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"><li>• For SP only operation, AFC DUT does not transmit in the band.</li><li>• For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, the AFC DUT does not transmit above LPI limits.</li></ul> 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"><li>• During the 60 seconds wait time:<ul style="list-style-type: none"><li>▪ 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</li><li>▪ 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</li></ul></li></ul>                                                                                                                                                                                                                              |
| 11   | Wait for 60 seconds<br>RF Test Equipment monitors any transmission by the AFC DUT conforms to the following: <ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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 9 declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters.<br>Configure the AFC DUT with AFC System URL and server root certificate.<br>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<br>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.<br>If needed (see Table 9 declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID), new geographic coordinates, antenna height, and uncertainty parameters.<br>Configure the AFC DUT with AFC System URL and server root certificate                                                                                                                                                                                                                                                                                              |
| 21 | Wait for 60 seconds<br>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.<br>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.<br>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<br>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.<br>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.<br>Configure the DUT with AFC System URL and server root certificate.<br>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"><li>• In the band if the AFC DUT supports only SP operation</li></ul> Or <ul style="list-style-type: none"><li>• Above LPI limits for AFC DUT whose manufacturer attests to its compliance with rules for LPI operation</li></ul> Wait for 60 seconds<br>RF Test Equipment monitors any transmission by the AFC DUT conforms to the following: <ul style="list-style-type: none"><li>• 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.</li></ul> 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.<br>If needed (see Table 9 declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID), new geographic coordinates, antenna height, and uncertainty parameters.<br>Configure the AFC DUT with AFC System URL and server root certificate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 8    | Wait for 60 seconds <ul style="list-style-type: none"><li>• 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"><li>▪ For SP only operation, AFC DUT does not transmit in the band,</li><li>▪ For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, the AFC DUT does not transmit above LPI limits.</li></ul></li><li>• If the AFC DUT sends an Available Spectrum Inquiry Request, then CONTINUE with Step 8</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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.<br>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 9 declaration), configure the DUT with a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters.<br>Configure the AFC DUT with AFC System URL and server root certificate.<br>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<br>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.<br>If needed (see Table 9 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.<br>Configure the AFC DUT with AFC System URL and server root certificate                                                                                         |
| 21 | Wait for 60 seconds<br>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.,<br>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<br>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 9 declaration), configure the AFC DUT with BSS parameters per Table 14 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"><li>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</li><li>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</li><li>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</li><li>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</li><li>Run 5: Same configuration as per Section 2.3.1, except OCSP stapling is disabled and CRL/OCSP servers are not available</li><li>Run 6: Same configuration as per Section 2.3.1, except stapled OCSP response has expired and CRL/OCSP servers are not available</li><li>Run 7: Same configuration as per Section 2.3.1, except only the TLS cipher suite "eNULL" (no encryption) is enabled</li><li>Run 8: N/A (same configuration as per Section 2.3.1)</li></ul> <p>Configure the AFC DUT with the AFC System URL and the following root certificate:</p> <ul style="list-style-type: none"><li>Runs 1-7: Root certificate as per Section 2.3.1</li><li>Run 8: No root certificate</li></ul> <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 27, 2024     | May 26, 2025         | Conducted (TH01-CB) |
| RF Power Divider  | MTJ   | 4 Way     | DF01-DV01     | 1GHz ~ 6GHz     | Oct. 03, 2023    | Oct. 02, 2024        | Conducted (TH01-CB) |
| RF Power Divider  | MTJ   | 4 Way     | DF01-DV01     | 1GHz ~ 6GHz     | Oct. 02, 2024    | Oct. 01, 2025        | Conducted (TH01-CB) |
| RF Power Divider  | Titan | 2 Way     | DV-8G -09     | 2GHz ~ 8GHz     | Oct. 03, 2023    | Oct. 02, 2024        | Conducted (TH01-CB) |
| RF Power Divider  | Titan | 2 Way     | DV-8G -09     | 2GHz ~ 8GHz     | Oct. 02, 2024    | Oct. 01, 2025        | Conducted (TH01-CB) |
| RF Power Divider  | Titan | 2 Way     | DV-8G -10     | 2GHz ~ 8GHz     | Oct. 03, 2023    | Oct. 02, 2024        | Conducted (TH01-CB) |
| RF Power Divider  | Titan | 2 Way     | DV-8G -10     | 2GHz ~ 8GHz     | Oct. 02, 2024    | Oct. 01, 2025        | Conducted (TH01-CB) |
| RF Cable-high     | Woken | RG402     | High Cable-52 | 1 GHz ~18 GHz   | Oct. 02, 2023    | Oct. 01, 2024        | Conducted (TH01-CB) |
| RF Cable-high     | Woken | RG402     | High Cable-52 | 1 GHz ~18 GHz   | Oct. 01, 2024    | Sep. 30, 2025        | Conducted (TH01-CB) |
| RF Cable-high     | Woken | RG402     | High Cable-53 | 1 GHz ~18 GHz   | Oct. 02, 2023    | Oct. 01, 2024        | Conducted (TH01-CB) |
| RF Cable-high     | Woken | RG402     | High Cable-53 | 1 GHz ~18 GHz   | Oct. 01, 2024    | Sep. 30, 2025        | Conducted (TH01-CB) |
| RF Cable-high     | Woken | RG402     | High Cable-54 | 1 GHz ~18 GHz   | Oct. 02, 2023    | Oct. 01, 2024        | Conducted (TH01-CB) |
| RF Cable-high     | Woken | RG402     | High Cable-54 | 1 GHz ~18 GHz   | Oct. 01, 2024    | Sep. 30, 2025        | Conducted (TH01-CB) |
| RF Cable-high     | Woken | RG402     | High Cable-56 | 1 GHz ~18 GHz   | Oct. 02, 2023    | Oct. 01, 2024        | Conducted (TH01-CB) |
| RF Cable-high     | Woken | RG402     | High Cable-56 | 1 GHz ~18 GHz   | Oct. 01, 2024    | Sep. 30, 2025        | Conducted (TH01-CB) |

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

NCR means Non-Calibration required.



## **5 Measurement Uncertainty**

| <b>Test Items</b>  | <b>Uncertainty</b> | <b>Remark</b>            |
|--------------------|--------------------|--------------------------|
| Conducted Emission | 3.0 dB             | Confidence levels of 95% |

## AFC DUT Compliance Test Report

**DUT Information**

|                   |                   |
|-------------------|-------------------|
| AFC DUT System    | Standard Power AP |
| DUT Vendor Name   | tp-link           |
| DUT Product Model | Deco BE65         |

**Test Result**

| ETC Requirements                                                                                    | Test Case Name                                                                                                               | Test Result |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------|
| 15.407(k)(8)(v)                                                                                     | <a href="#">CT_AFC_ServerValidation_AP_AFCDSUV35_NoRootCA_10639_1 (Unsuccessful server validation)</a>                       | PASS        |
| 15.407(k)(8)(v)                                                                                     | <a href="#">CT_AFC_ServerValidation_AP_AFCDSUV35_TLSCipherSuiteENULL_10638_1 (Unsuccessful server validation)</a>            | PASS        |
| 15.407(k)(8)(v)                                                                                     | <a href="#">CT_AFC_ServerValidation_AP_AFCDSUV35_StapledOCSPRespExpired_10637_1 (Unsuccessful server validation)</a>         | PASS        |
| 15.407(k)(8)(v)                                                                                     | <a href="#">CT_AFC_ServerValidation_AP_AFCDSUV35_OCSPStaplingDisabled_10636_1 (Unsuccessful server validation)</a>           | PASS        |
| 15.407(k)(8)(v)                                                                                     | <a href="#">CT_AFC_ServerValidation_AP_AFCDSUV35_ServerCertRevoked_10635_1 (Unsuccessful server validation)</a>              | PASS        |
| 15.407(k)(8)(v)                                                                                     | <a href="#">CT_AFC_ServerValidation_AP_AFCDSUV35_MatchSuffixSAN_10634_1 (Unsuccessful server validation)</a>                 | PASS        |
| 15.407(k)(8)(v)                                                                                     | <a href="#">CT_AFC_ServerValidation_AP_AFCDSUV35_DifferentRootCA_10633_1 (Unsuccessful server validation)</a>                | PASS        |
| 15.407(k)(8)(v)                                                                                     | <a href="#">CT_AFC_ServerValidation_AP_AFCDSUV35_NonMatchSAN_10632_1 (Unsuccessful server validation)</a>                    | 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) | <a href="#">CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_320MHz_10715_1 (Successful registration and spectrum access request)</a> | PASS        |
| 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(9)(i)                                                  | <a href="#">CT_AFC_SP_AP_AFCDSUAU34_FrequencyChannel_10631_1 (Unsuccessful spectrum access update)</a>                       | PASS        |
| 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(9)(i)                                                  | <a href="#">CT_AFC_SP_AP_AFCDSUAU33_FrequencyChannel_10630_1 (Successful spectrum access update)</a>                         | PASS        |
| 15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii)                                  | <a href="#">CT_AFC_SP_AP_AFCDSUA32_FrequencyChannel_10629_1 (Unsuccessful registration and spectrum access request)</a>      | 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) | <a href="#">CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_160MHz_10628_1 (Successful registration and spectrum access request)</a> | 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) | <a href="#">CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_80MHz_10627_1 (Successful registration and spectrum access request)</a>  | 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) | <a href="#">CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_40MHz_10626_1 (Successful registration and spectrum access request)</a>  | 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) | <a href="#">CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_20MHz_10625_1 (Successful registration and spectrum access request)</a>  | PASS        |

**Test Measurements**

Test Case Name: CT\_AFC\_ServerValidation\_AP\_AFCDSUV35\_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              |

Test Case Name: CT\_AFC\_ServerValidation\_AP\_AFCDSUV35\_TLSCipherSuiteENULL\_10638\_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\_StapleOCSPRespExpired\_10637\_1 (Unsuccessful server validation)  
TestResult:PASS  
Band:6GHz

| Measurement's 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

| Measurement's 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

| Measurement's 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

| Measurement's 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

| Measurement's 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

| Measurement's 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\_AFCDRSA31\_FrequencyChannel\_320MHz\_10715\_1 (Successful registration and spectrum access request)  
TestResult:PASS  
Band:6GHz

| Measurement's 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 (10.1 dBm/MHz PSD, 35.2 dBm EIRP) in Spectrum Reponse] on channel center frequency index 63 bandwidth 320. | true  | PASS              |
| AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_1 | AFC DUT conforms to not exceed emissions limits in adjacent frequencies                                                                                                                                   | 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 (0.5 dBm/MHz PSD, 25.6 dBm EIRP) in Spectrum Response] on channel center frequency index 63 bandwidth 320. | true | PASS |
| AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_2 | AFC DUT conforms to not exceed emissions limits in adjacent frequencies                                                                                                                                   | true | PASS |

TestCaseName: CT\_AFC\_SP\_AP\_AFCDAU34\_FrequencyChannel\_10631\_1 (Unsuccessful spectrum access update)  
 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                  | 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 (23 dBm/MHz PSD, 36.0 dBm EIRP) in Spectrum Response] on channel 33 bandwidth 20. | true  | PASS              |
| AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS | AFC DUT conforms to not exceed emissions limits in adjacent frequencies                                                                                                          | 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\_AFCDSA33\_FrequencyChannel\_10630\_1 (Successful spectrum access update)  
 TestResult:PASS  
 Band:6GHz

| Measurement 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 (21.5 dBm/MHz PSD, 34.5 dBm EIRP) in Spectrum Response] on channel 57 bandwidth 20. | true  | PASS              |
| AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_1 | AFC DUT conforms to not exceed emissions limits in adjacent frequencies                                                                                                            | 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\_FrequencyChannel\_10629\_1 (Unsuccessful 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 | AFC DUT sends an Available Spectrum Inquiry Request                                   | true  | PASS              |

|                                          |                                                                    |      |      |
|------------------------------------------|--------------------------------------------------------------------|------|------|
| 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\_FrequencyChannel\_160MHz\_10628\_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 (9.1 dBm/MHz PSD, 31.1 dBm EIRP) in Spectrum Reponse] on channel center frequency index 47 bandwidth 160. | true  | PASS              |
| AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_1 | AFC DUT conforms to not exceed emissions limits in adjacent frequencies                                                                                                                                  | 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 (9.4 dBm/MHz PSD, 31.4 dBm EIRP) in Spectrum Reponse] on channel center frequency index 79 bandwidth 160. | true  | PASS              |
| AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_2 | AFC DUT conforms to not exceed emissions limits in adjacent frequencies                                                                                                                                  | true  | PASS              |

TestCaseName: CT\_AFC\_SP\_AP\_AFCDRSA31\_FrequencyChannel\_80MHz\_10627\_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 (9.6 dBm/MHz PSD, 28.6 dBm EIRP) in Spectrum Reponse] on channel center frequency index 135 bandwidth 80. | true  | PASS              |
| AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_1 | AFC DUT conforms to not exceed emissions limits in adjacent frequencies                                                                                                                                  | 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 (12.3 dBm/MHz PSD, 31.3 dBm EIRP) in Spectrum Reponse] on channel center frequency index 71 bandwidth 80. | true  | PASS              |
| AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_2 | AFC DUT conforms to not exceed emissions limits in adjacent frequencies                                                                                                                                  | true  | PASS              |

TestCaseName: CT\_AFC\_SP\_AP\_AFCDRSA31\_FrequencyChannel\_40MHz\_10626\_1 (Successful registration and spectrum access request)  
 TestResult: PASS  
 Band: 6GHz

| Measurement's 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 (10.4 dBm/MHz PSD, 26.4 dBm EIRP) in Spectrum Response] on channel center frequency index 83 bandwidth 40. | true  | PASS              |
| AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_1 | AFC DUT conforms to not exceed emissions limits in adjacent frequencies                                                                                                                                   | 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 (11.3 dBm/MHz PSD, 27.3 dBm EIRP) in Spectrum Response] on channel center frequency index 35 bandwidth 40. | true  | PASS              |
| AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_2 | AFC DUT conforms to not exceed emissions limits in adjacent frequencies                                                                                                                                   | true  | PASS              |

TestCaseName: CT\_AFC\_SP\_AP\_AFCDRSA31\_FrequencyChannel\_20MHz\_10625\_1 (Successful registration and spectrum access request)  
 TestResult: PASS  
 Band: 6GHz

| Measurement's 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 (11.2 dBm/MHz PSD, 24.2 dBm EIRP) in Spectrum Response] on channel 37 bandwidth 20. | true  | PASS              |
| AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_1 | AFC DUT conforms to not exceed emissions limits in adjacent frequencies                                                                                                            | 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 (11.3 dBm/MHz PSD, 24.3 dBm EIRP) in Spectrum Response] on channel 53 bandwidth 20. | true  | PASS              |
| AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_2 | AFC DUT conforms to not exceed emissions limits in adjacent frequencies                                                                                                            | true  | PASS              |

**AFC capability - Inquired Frequency & Channel****CT\_AFC\_SP\_AP\_AFCDRSA31\_FrequencyChannel\_20MHz\_10625\_1**

##### 2024-09-19T04:54:32Z #####

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  "headers": {
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    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.168.68.1",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1344",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
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        "requestId": "1726725270",
        "deviceDescriptor": {
          "serialNumber": "aa9083ff403da8f1d4a736333dbb04eb",
          "certificationId": [
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              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "2BCGWBE65V2"
            }
          ]
        }
      }
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    "location": {
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          "latitude": 33.180622
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        "minorAxis": 30,
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    }
  }
}
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      "highFrequency": 6425
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    {
      "lowFrequency": 6525,
      "highFrequency": 6865
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  "inquiredChannels": [
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      "channelCfi": [
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        89,
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```

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        143
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},
{
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},
{
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}
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"minDesiredPower": 24
}
]
}
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```

##### 2024-09-19T04:54:32Z #####

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    "availableSpectrumInquiryResponses": [
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            "response": {
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                "shortDescription": "SUCCESS"
            },
            "availableFrequencyInfo": [
                {
                    "frequencyRange": {
                        "highFrequency": 6125,
                        "lowFrequency": 6105
                    },
                    "maxPsd": 14.2
                }
            ]
        }
    ]
}
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```
    },  
    {  
      "frequencyRange": {  
        "highFrequency": 6145,  
        "lowFrequency": 6125  
      },  
      "maxPsd": 11.2  
    },  
    {  
      "frequencyRange": {  
        "highFrequency": 6165,  
        "lowFrequency": 6145  
      },  
      "maxPsd": 9.6  
    },  
    {  
      "frequencyRange": {  
        "highFrequency": 6185,  
        "lowFrequency": 6165  
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      "maxPsd": 16.5  
    },  
    {  
      "frequencyRange": {  
        "highFrequency": 6365,  
        "lowFrequency": 6345  
      },  
      "maxPsd": 11.9  
    },  
    {  
      "frequencyRange": {  
        "highFrequency": 6385,  
        "lowFrequency": 6365  
      },  
      "maxPsd": 10.1  
    },  
    {
```

```
"frequencyRange": {
  "highFrequency": 6405,
  "lowFrequency": 6385
},
"maxPsd": 14.4
},
{
  "frequencyRange": {
    "highFrequency": 6425,
    "lowFrequency": 6405
  },
  "maxPsd": 14.6
},
{
  "frequencyRange": {
    "highFrequency": 6605,
    "lowFrequency": 6585
  },
  "maxPsd": 9.8
},
{
  "frequencyRange": {
    "highFrequency": 6625,
    "lowFrequency": 6605
  },
  "maxPsd": 14.5
},
{
  "frequencyRange": {
    "highFrequency": 6645,
    "lowFrequency": 6625
  },
  "maxPsd": 17.9
},
{
  "frequencyRange": {
    "highFrequency": 6665,
```

```
        "lowFrequency": 6645
      },
      "maxPsd": 15.2
    }
  ],
  "availableChannelInfo": [
    {
      "channelCfi": [
        33,
        37,
        41,
        45,
        81,
        85,
        89,
        93,
        129,
        133,
        137,
        141
      ],
      "globalOperatingClass": 131,
      "maxEirp": [
        27.2,
        24.2,
        22.6,
        29.5,
        24.9,
        23.1,
        27.4,
        27.6,
        22.8,
        27.5,
        30.9,
        28.2
      ]
    }
  ],
},
```

```
{
  "channelCfi": [
    35,
    43,
    83,
    91,
    131,
    139
  ],
  "globalOperatingClass": 132,
  "maxEirp": [
    27.2,
    25.6,
    26.1,
    30.4,
    25.8,
    31.2
  ]
},
{
  "channelCfi": [
    39,
    87,
    135
  ],
  "globalOperatingClass": 133,
  "maxEirp": [
    28.6,
    29.1,
    28.8
  ]
}
],
"requestId": "1726725270",
"availabilityExpireTime": "2024-09-20T04:54:32Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
```

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

##### 2024-09-19T05:02:27Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.168.68.1",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1344",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "1726725745",
        "deviceDescriptor": {
          "serialNumber": "aa9083ff403da8f1d4a736333dbb04eb",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "2BCGWBE65V2"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -97.560616,
          "latitude": 33.180622
        },
        "majorAxis": 30,
```

```
        "minorAxis": 30,
        "orientation": 0.0
    },
    "elevation": {
        "height": 3.1,
        "heightType": "AGL",
        "verticalUncertainty": 10
    },
    "indoorDeployment": 1
},
"inquiredFrequencyRange": [
    {
        "lowFrequency": 5945,
        "highFrequency": 6425
    },
    {
        "lowFrequency": 6525,
        "highFrequency": 6865
    }
],
"inquiredChannels": [
    {
        "globalOperatingClass": 131,
        "channelCfi": [
            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": [
        35,
        43,
        51,
        59,
        67,
        75,
        83,
        91,
        123,
        131,
        139,
        147,
        155,
        163,
        171,
        179
      ]
    },
    {
      "globalOperatingClass": 133,
      "channelCfi": [
        39,
        55,
        71,
        87,
        135,
        151,
        167
      ]
    },
    {
```

```
        "globalOperatingClass": 134,
        "channelCfi": [
            47,
            79,
            143
        ]
    },
    {
        "globalOperatingClass": 136
    },
    {
        "globalOperatingClass": 137,
        "channelCfi": [
            31,
            63
        ]
    }
],
"minDesiredPower": 24
}
]
}
}

##### 2024-09-19T05:02:27Z #####
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableFrequencyInfo": [
                {
                    "frequencyRange": {
                        "highFrequency": 6205,
                        "lowFrequency": 6185
                    }
                }
            ]
        }
    ]
}
```

```
    },
    "maxPsd": 12.1
  },
  {
    "frequencyRange": {
      "highFrequency": 6225,
      "lowFrequency": 6205
    },
    "maxPsd": 11.3
  },
  {
    "frequencyRange": {
      "highFrequency": 6245,
      "lowFrequency": 6225
    },
    "maxPsd": 21.1
  },
  {
    "frequencyRange": {
      "highFrequency": 6265,
      "lowFrequency": 6245
    },
    "maxPsd": 14.4
  },
  {
    "frequencyRange": {
      "highFrequency": 6285,
      "lowFrequency": 6265
    },
    "maxPsd": 15.4
  },
  {
    "frequencyRange": {
      "highFrequency": 6305,
      "lowFrequency": 6285
    },
    "maxPsd": 10.1
  }
```



```
"frequencyRange": {
  "highFrequency": 6745,
  "lowFrequency": 6725
},
"maxPsd": 17.2
},
{
  "frequencyRange": {
    "highFrequency": 6765,
    "lowFrequency": 6745
  },
  "maxPsd": 9.1
},
{
  "frequencyRange": {
    "highFrequency": 6785,
    "lowFrequency": 6765
  },
  "maxPsd": 14.4
},
{
  "frequencyRange": {
    "highFrequency": 6805,
    "lowFrequency": 6785
  },
  "maxPsd": 13.0
},
{
  "frequencyRange": {
    "highFrequency": 6825,
    "lowFrequency": 6805
  },
  "maxPsd": 10.0
}
],
"availableChannelInfo": [
  {
```

```
"channelCfi": [  
    49,  
    53,  
    57,  
    61,  
    65,  
    69,  
    73,  
    77,  
    145,  
    149,  
    153,  
    157,  
    161,  
    165,  
    169,  
    173  
],  
"globalOperatingClass": 131,  
"maxEirp": [  
    25.1,  
    24.3,  
    34.1,  
    27.4,  
    28.4,  
    23.1,  
    34.1,  
    23.1,  
    31.9,  
    25.5,  
    33.2,  
    30.2,  
    22.1,  
    27.4,  
    26.0,  
    23.0  
]  
]
```

```
    },  
    {  
      "channelCfi": [  
        51,  
        59,  
        67,  
        75,  
        147,  
        155,  
        163,  
        171  
      ],  
      "globalOperatingClass": 132,  
      "maxEirp": [  
        27.3,  
        30.4,  
        26.1,  
        26.1,  
        28.5,  
        33.2,  
        25.1,  
        26.0  
      ]  
    },  
    {  
      "channelCfi": [  
        55,  
        71,  
        151,  
        167  
      ],  
      "globalOperatingClass": 133,  
      "maxEirp": [  
        30.3,  
        29.1,  
        31.5,  
        28.1  
      ]  
    }  
  ]  
}
```



```
    ]
  }
],
  "requestId": "1726725745",
  "availabilityExpireTime": "2024-09-20T05:02:27Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```



CT\_AFC\_SP\_AP\_AFCDRSA31\_FrequencyChannel\_40MHz\_10626\_1

##### 2024-09-19T05:21:58Z #####

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.168.68.1",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1344",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "1726726907",
        "deviceDescriptor": {
          "serialNumber": "aa9083ff403da8f1d4a736333dbb04eb",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "2BCGWBE65V2"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -97.560616,
          "latitude": 33.180622
        },
        "majorAxis": 30,
        "minorAxis": 30,
        "orientation": 0.0
      }
    }
  }
}
```

```
"elevation": {
  "height": 3.1,
  "heightType": "AGL",
  "verticalUncertainty": 10
},
"indoorDeployment": 1
},
"inquiredFrequencyRange": [
  {
    "lowFrequency": 5945,
    "highFrequency": 6425
  },
  {
    "lowFrequency": 6525,
    "highFrequency": 6865
  }
],
"inquiredChannels": [
  {
    "globalOperatingClass": 131,
    "channelCfi": [
      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": [
    35,
    43,
    51,
    59,
    67,
    75,
    83,
    91,
    123,
    131,
    139,
    147,
    155,
    163,
    171,
    179
  ]
},
{
  "globalOperatingClass": 133,
  "channelCfi": [
    39,
    55,
    71,
    87,
    135,
    151,
    167
  ]
},
{
  "globalOperatingClass": 134,
  "channelCfi": [
    47,
```

```
        79,
        143
    ]
},
{
    "globalOperatingClass": 136
},
{
    "globalOperatingClass": 137,
    "channelCfi": [
        31,
        63
    ]
}
],
"minDesiredPower": 24
}
]
}
}
```

##### 2024-09-19T05:21:58Z #####

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableFrequencyInfo": [
        {
          "frequencyRange": {
            "highFrequency": 6205,
            "lowFrequency": 6185
          },
          "maxPsd": 9.3
        },
      ],
    }
  ],
}
```

```
{
  "frequencyRange": {
    "highFrequency": 6225,
    "lowFrequency": 6205
  },
  "maxPsd": 15.0
},
{
  "frequencyRange": {
    "highFrequency": 6245,
    "lowFrequency": 6225
  },
  "maxPsd": 9.4
},
{
  "frequencyRange": {
    "highFrequency": 6265,
    "lowFrequency": 6245
  },
  "maxPsd": 16.9
},
{
  "frequencyRange": {
    "highFrequency": 6365,
    "lowFrequency": 6345
  },
  "maxPsd": 12.7
},
{
  "frequencyRange": {
    "highFrequency": 6385,
    "lowFrequency": 6365
  },
  "maxPsd": 10.4
},
{
  "frequencyRange": {
```

```
        "highFrequency": 6405,
        "lowFrequency": 6385
    },
    "maxPsd": 9.6
},
{
    "frequencyRange": {
        "highFrequency": 6425,
        "lowFrequency": 6405
    },
    "maxPsd": 15.7
},
{
    "frequencyRange": {
        "highFrequency": 6685,
        "lowFrequency": 6665
    },
    "maxPsd": 13.1
},
{
    "frequencyRange": {
        "highFrequency": 6705,
        "lowFrequency": 6685
    },
    "maxPsd": 15.5
},
{
    "frequencyRange": {
        "highFrequency": 6725,
        "lowFrequency": 6705
    },
    "maxPsd": 17.4
},
{
    "frequencyRange": {
        "highFrequency": 6745,
        "lowFrequency": 6725
```

```
    },
    "maxPsd": 13.5
  }
],
"availableChannelInfo": [
  {
    "channelCfi": [
      49,
      53,
      57,
      61,
      81,
      85,
      89,
      93,
      145,
      149,
      153,
      157
    ],
    "globalOperatingClass": 131,
    "maxEirp": [
      22.3,
      28.0,
      22.4,
      29.9,
      25.7,
      23.4,
      22.6,
      28.7,
      26.1,
      28.5,
      30.4,
      26.5
    ]
  }
],
{
```

```
"channelCfi": [
    51,
    59,
    83,
    91,
    147,
    155
],
"globalOperatingClass": 132,
"maxEirp": [
    25.3,
    25.4,
    26.4,
    25.6,
    29.1,
    29.5
]
},
{
    "channelCfi": [
        55,
        87,
        151
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
        28.3,
        28.6,
        32.1
    ]
}
],
"requestId": "1726726907",
"availabilityExpireTime": "2024-09-20T05:21:58Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
```

```
"version": "1.4"
}

##### 2024-09-19T05:33:22Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.168.68.1",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1344",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "1726727591",
        "deviceDescriptor": {
          "serialNumber": "aa9083ff403da8f1d4a736333dbb04eb",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "2BCGWBE65V2"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -97.560616,
          "latitude": 33.180622
        },
        "majorAxis": 30,
        "minorAxis": 30,

```

```
        "orientation": 0.0
      },
      "elevation": {
        "height": 3.1,
        "heightType": "AGL",
        "verticalUncertainty": 10
      },
      "indoorDeployment": 1
    },
    "inquiredFrequencyRange": [
      {
        "lowFrequency": 5945,
        "highFrequency": 6425
      },
      {
        "lowFrequency": 6525,
        "highFrequency": 6865
      }
    ],
    "inquiredChannels": [
      {
        "globalOperatingClass": 131,
        "channelCfi": [
          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": [
    35,
    43,
    51,
    59,
    67,
    75,
    83,
    91,
    123,
    131,
    139,
    147,
    155,
    163,
    171,
    179
  ]
},
{
  "globalOperatingClass": 133,
  "channelCfi": [
    39,
    55,
    71,
    87,
    135,
    151,
    167
  ]
},
{
  "globalOperatingClass": 134,
```

```
        "channelCfi": [
            47,
            79,
            143
        ]
    },
    {
        "globalOperatingClass": 136
    },
    {
        "globalOperatingClass": 137,
        "channelCfi": [
            31,
            63
        ]
    }
],
"minDesiredPower": 24
}
]
}
}
```

##### 2024-09-19T05:33:22Z #####

```
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableFrequencyInfo": [
                {
                    "frequencyRange": {
                        "highFrequency": 6125,
                        "lowFrequency": 6105
                    },
                }
            ]
        }
    ]
}
```

```
"maxPsd": 11.3
},
{
  "frequencyRange": {
    "highFrequency": 6145,
    "lowFrequency": 6125
  },
  "maxPsd": 18.4
},
{
  "frequencyRange": {
    "highFrequency": 6165,
    "lowFrequency": 6145
  },
  "maxPsd": 17.8
},
{
  "frequencyRange": {
    "highFrequency": 6185,
    "lowFrequency": 6165
  },
  "maxPsd": 21.3
},
{
  "frequencyRange": {
    "highFrequency": 6285,
    "lowFrequency": 6265
  },
  "maxPsd": 8.9
},
{
  "frequencyRange": {
    "highFrequency": 6305,
    "lowFrequency": 6285
  },
  "maxPsd": 17.7
},
},
```

```
{
  "frequencyRange": {
    "highFrequency": 6325,
    "lowFrequency": 6305
  },
  "maxPsd": 8.6
},
{
  "frequencyRange": {
    "highFrequency": 6345,
    "lowFrequency": 6325
  },
  "maxPsd": 13.8
},
{
  "frequencyRange": {
    "highFrequency": 6605,
    "lowFrequency": 6585
  },
  "maxPsd": 12.5
},
{
  "frequencyRange": {
    "highFrequency": 6625,
    "lowFrequency": 6605
  },
  "maxPsd": 17.6
},
{
  "frequencyRange": {
    "highFrequency": 6645,
    "lowFrequency": 6625
  },
  "maxPsd": 20.0
},
{
  "frequencyRange": {
```

```
        "highFrequency": 6665,
        "lowFrequency": 6645
    },
    "maxPsd": 8.9
},
{
    "frequencyRange": {
        "highFrequency": 6765,
        "lowFrequency": 6745
    },
    "maxPsd": 15.2
},
{
    "frequencyRange": {
        "highFrequency": 6785,
        "lowFrequency": 6765
    },
    "maxPsd": 19.4
},
{
    "frequencyRange": {
        "highFrequency": 6805,
        "lowFrequency": 6785
    },
    "maxPsd": 17.0
},
{
    "frequencyRange": {
        "highFrequency": 6825,
        "lowFrequency": 6805
    },
    "maxPsd": 19.0
}
],
"availableChannelInfo": [
    {
        "channelCfi": [
```

```
33,  
37,  
41,  
45,  
65,  
69,  
73,  
77,  
129,  
133,  
137,  
141,  
161,  
165,  
169,  
173  
],  
"globalOperatingClass": 131,  
"maxEirp": [  
24.3,  
31.4,  
30.8,  
34.3,  
21.9,  
30.7,  
21.6,  
26.8,  
25.5,  
30.6,  
33.0,  
21.9,  
28.2,  
32.4,  
30.0,  
32.0  
]  
},
```

```
{
  "channelCfi": [
    35,
    43,
    67,
    75,
    131,
    139,
    163,
    171
  ],
  "globalOperatingClass": 132,
  "maxEirp": [
    27.3,
    33.8,
    24.9,
    24.6,
    28.5,
    24.9,
    31.2,
    33.0
  ]
},
{
  "channelCfi": [
    39,
    71,
    135,
    167
  ],
  "globalOperatingClass": 133,
  "maxEirp": [
    30.3,
    27.6,
    27.9,
    34.2
  ]
}
```



```
    }  
  ],  
  "requestId": "1726727591",  
  "availabilityExpireTime": "2024-09-20T05:33:22Z",  
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
}  
],  
"version": "1.4"  
}
```

**CT\_AFC\_SP\_AP\_AFCDRSA31\_FrequencyChannel\_80MHz\_10627\_1**

##### 2024-09-19T05:42:42Z #####

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.168.68.1",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1344",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "1726728151",
        "deviceDescriptor": {
          "serialNumber": "aa9083ff403da8f1d4a736333dbb04eb",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "2BCGWBE65V2"
            }
          ]
        },
        "location": {
          "ellipse": {
            "center": {
              "longitude": -97.560616,
              "latitude": 33.180622
            },
            "majorAxis": 30,
            "minorAxis": 30,
            "orientation": 0.0
          }
        }
      }
    ]
  }
}
```

```
"elevation": {
  "height": 3.1,
  "heightType": "AGL",
  "verticalUncertainty": 10
},
"indoorDeployment": 1
},
"inquiredFrequencyRange": [
  {
    "lowFrequency": 5945,
    "highFrequency": 6425
  },
  {
    "lowFrequency": 6525,
    "highFrequency": 6865
  }
],
"inquiredChannels": [
  {
    "globalOperatingClass": 131,
    "channelCfi": [
      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": [
    35,
    43,
    51,
    59,
    67,
    75,
    83,
    91,
    123,
    131,
    139,
    147,
    155,
    163,
    171,
    179
  ]
},
{
  "globalOperatingClass": 133,
  "channelCfi": [
    39,
    55,
    71,
    87,
    135,
    151,
    167
  ]
},
{
  "globalOperatingClass": 134,
  "channelCfi": [
    47,
```

```
        79,  
        143  
    ]  
  },  
  {  
    "globalOperatingClass": 136  
  },  
  {  
    "globalOperatingClass": 137,  
    "channelCfi": [  
      31,  
      63  
    ]  
  }  
],  
"minDesiredPower": 24  
}  
]  
}  
}
```

##### 2024-09-19T05:42:43Z #####

```
{  
  "availableSpectrumInquiryResponses": [  
    {  
      "response": {  
        "responseCode": 0,  
        "shortDescription": "SUCCESS"  
      },  
      "availableFrequencyInfo": [  
        {  
          "frequencyRange": {  
            "highFrequency": 6125,  
            "lowFrequency": 6105  
          },  
          "maxPsd": 15.0  
        },  
      ]  
    }  
  ]  
}
```

```
{
  "frequencyRange": {
    "highFrequency": 6145,
    "lowFrequency": 6125
  },
  "maxPsd": 12.3
},
{
  "frequencyRange": {
    "highFrequency": 6165,
    "lowFrequency": 6145
  },
  "maxPsd": 8.4
},
{
  "frequencyRange": {
    "highFrequency": 6185,
    "lowFrequency": 6165
  },
  "maxPsd": 16.4
},
{
  "frequencyRange": {
    "highFrequency": 6605,
    "lowFrequency": 6585
  },
  "maxPsd": 9.6
},
{
  "frequencyRange": {
    "highFrequency": 6625,
    "lowFrequency": 6605
  },
  "maxPsd": 16.2
},
{
  "frequencyRange": {
```

```
        "highFrequency": 6645,
        "lowFrequency": 6625
    },
    "maxPsd": 11.6
},
{
    "frequencyRange": {
        "highFrequency": 6665,
        "lowFrequency": 6645
    },
    "maxPsd": 21.7
},
{
    "frequencyRange": {
        "highFrequency": 6765,
        "lowFrequency": 6745
    },
    "maxPsd": 11.3
},
{
    "frequencyRange": {
        "highFrequency": 6785,
        "lowFrequency": 6765
    },
    "maxPsd": 10.2
},
{
    "frequencyRange": {
        "highFrequency": 6805,
        "lowFrequency": 6785
    },
    "maxPsd": 19.1
},
{
    "frequencyRange": {
        "highFrequency": 6825,
        "lowFrequency": 6805
```

```
    },
    "maxPsd": 17.1
  }
],
"availableChannelInfo": [
  {
    "channelCfi": [
      33,
      37,
      41,
      45,
      129,
      133,
      137,
      141,
      161,
      165,
      169,
      173
    ],
    "globalOperatingClass": 131,
    "maxEirp": [
      28.0,
      25.3,
      21.4,
      29.4,
      22.6,
      29.2,
      24.6,
      34.7,
      24.3,
      23.2,
      32.1,
      30.1
    ]
  }
],
{
```

```
"channelCfi": [
    35,
    43,
    131,
    139,
    163,
    171
],
"globalOperatingClass": 132,
"maxEirp": [
    28.3,
    24.4,
    25.6,
    27.6,
    26.2,
    33.1
]
},
{
    "channelCfi": [
        39,
        135,
        167
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
        27.4,
        28.6,
        29.2
    ]
}
],
"requestId": "1726728151",
"availabilityExpireTime": "2024-09-20T05:42:42Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
```

```
"version": "1.4"
}

##### 2024-09-19T05:46:23Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.168.68.1",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1344",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "1726728372",
        "deviceDescriptor": {
          "serialNumber": "aa9083ff403da8f1d4a736333dbb04eb",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "2BCGWBE65V2"
            }
          ]
        },
        "location": {
          "ellipse": {
            "center": {
              "longitude": -97.560616,
              "latitude": 33.180622
            },
            "majorAxis": 30,
            "minorAxis": 30,

```

```
        "orientation": 0.0
      },
      "elevation": {
        "height": 3.1,
        "heightType": "AGL",
        "verticalUncertainty": 10
      },
      "indoorDeployment": 1
    },
    "inquiredFrequencyRange": [
      {
        "lowFrequency": 5945,
        "highFrequency": 6425
      },
      {
        "lowFrequency": 6525,
        "highFrequency": 6865
      }
    ],
    "inquiredChannels": [
      {
        "globalOperatingClass": 131,
        "channelCfi": [
          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": [
    35,
    43,
    51,
    59,
    67,
    75,
    83,
    91,
    123,
    131,
    139,
    147,
    155,
    163,
    171,
    179
  ]
},
{
  "globalOperatingClass": 133,
  "channelCfi": [
    39,
    55,
    71,
    87,
    135,
    151,
    167
  ]
},
{
  "globalOperatingClass": 134,
```

```
        "channelCfi": [
            47,
            79,
            143
        ]
    },
    {
        "globalOperatingClass": 136
    },
    {
        "globalOperatingClass": 137,
        "channelCfi": [
            31,
            63
        ]
    }
],
"minDesiredPower": 24
}
]
}
}
```

##### 2024-09-19T05:46:23Z #####

```
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableFrequencyInfo": [
                {
                    "frequencyRange": {
                        "highFrequency": 6205,
                        "lowFrequency": 6185
                    },
                }
            ]
        }
    ]
}
```

```
"maxPsd": 9.9
},
{
  "frequencyRange": {
    "highFrequency": 6225,
    "lowFrequency": 6205
  },
  "maxPsd": 16.1
},
{
  "frequencyRange": {
    "highFrequency": 6245,
    "lowFrequency": 6225
  },
  "maxPsd": 11.5
},
{
  "frequencyRange": {
    "highFrequency": 6265,
    "lowFrequency": 6245
  },
  "maxPsd": 18.0
},
{
  "frequencyRange": {
    "highFrequency": 6285,
    "lowFrequency": 6265
  },
  "maxPsd": 14.8
},
{
  "frequencyRange": {
    "highFrequency": 6305,
    "lowFrequency": 6285
  },
  "maxPsd": 12.3
},
},
```

```
{
  "frequencyRange": {
    "highFrequency": 6325,
    "lowFrequency": 6305
  },
  "maxPsd": 16.7
},
{
  "frequencyRange": {
    "highFrequency": 6345,
    "lowFrequency": 6325
  },
  "maxPsd": 20.9
},
{
  "frequencyRange": {
    "highFrequency": 6365,
    "lowFrequency": 6345
  },
  "maxPsd": 12.4
},
{
  "frequencyRange": {
    "highFrequency": 6385,
    "lowFrequency": 6365
  },
  "maxPsd": 19.8
},
{
  "frequencyRange": {
    "highFrequency": 6405,
    "lowFrequency": 6385
  },
  "maxPsd": 17.8
},
{
  "frequencyRange": {
```

```
        "highFrequency": 6425,
        "lowFrequency": 6405
    },
    "maxPsd": 16.4
},
{
    "frequencyRange": {
        "highFrequency": 6685,
        "lowFrequency": 6665
    },
    "maxPsd": 20.0
},
{
    "frequencyRange": {
        "highFrequency": 6705,
        "lowFrequency": 6685
    },
    "maxPsd": 17.3
},
{
    "frequencyRange": {
        "highFrequency": 6725,
        "lowFrequency": 6705
    },
    "maxPsd": 19.2
},
{
    "frequencyRange": {
        "highFrequency": 6745,
        "lowFrequency": 6725
    },
    "maxPsd": 17.2
}
],
"availableChannelInfo": [
    {
        "channelCfi": [
```

```
49,  
53,  
57,  
61,  
65,  
69,  
73,  
77,  
81,  
85,  
89,  
93,  
145,  
149,  
153,  
157  
],  
"globalOperatingClass": 131,  
"maxEirp": [  
22.9,  
29.1,  
24.5,  
31.0,  
27.8,  
25.3,  
29.7,  
33.9,  
25.4,  
32.8,  
30.8,  
29.4,  
33.0,  
30.3,  
32.2,  
30.2  
]  
},
```

```
{
  "channelCfi": [
    51,
    59,
    67,
    75,
    83,
    91,
    147,
    155
  ],
  "globalOperatingClass": 132,
  "maxEirp": [
    25.9,
    27.5,
    28.3,
    32.7,
    28.4,
    32.4,
    33.3,
    33.2
  ]
},
{
  "channelCfi": [
    55,
    71,
    87,
    151
  ],
  "globalOperatingClass": 133,
  "maxEirp": [
    28.9,
    31.3,
    31.4,
    36.0
  ]
}
```

```
    },
    {
      "channelCfi": [
        79
      ],
      "globalOperatingClass": 134,
      "maxEirp": [
        34.3
      ]
    }
  ],
  "requestId": "1726728372",
  "availabilityExpireTime": "2024-09-20T05:46:23Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

**CT\_AFC\_SP\_AP\_AFCDRSA31\_FrequencyChannel\_160MHz\_10628\_1**

##### 2024-09-19T06:01:38Z #####

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.168.68.1",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1344",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "1726729287",
        "deviceDescriptor": {
          "serialNumber": "aa9083ff403da8f1d4a736333dbb04eb",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "2BCGWBE65V2"
            }
          ]
        },
        "location": {
          "ellipse": {
            "center": {
              "longitude": -97.560616,
              "latitude": 33.180622
            },
            "majorAxis": 30,
            "minorAxis": 30,
            "orientation": 0.0
          }
        }
      }
    ]
  }
}
```

```
"elevation": {
  "height": 3.1,
  "heightType": "AGL",
  "verticalUncertainty": 10
},
"indoorDeployment": 1
},
"inquiredFrequencyRange": [
  {
    "lowFrequency": 5945,
    "highFrequency": 6425
  },
  {
    "lowFrequency": 6525,
    "highFrequency": 6865
  }
],
"inquiredChannels": [
  {
    "globalOperatingClass": 131,
    "channelCfi": [
      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": [
    35,
    43,
    51,
    59,
    67,
    75,
    83,
    91,
    123,
    131,
    139,
    147,
    155,
    163,
    171,
    179
  ]
},
{
  "globalOperatingClass": 133,
  "channelCfi": [
    39,
    55,
    71,
    87,
    135,
    151,
    167
  ]
},
{
  "globalOperatingClass": 134,
  "channelCfi": [
    47,
```

```
        79,
        143
    ]
},
{
    "globalOperatingClass": 136
},
{
    "globalOperatingClass": 137,
    "channelCfi": [
        31,
        63
    ]
}
],
"minDesiredPower": 24
}
]
}
}
```

##### 2024-09-19T06:01:38Z #####

```
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableFrequencyInfo": [
                {
                    "frequencyRange": {
                        "highFrequency": 6125,
                        "lowFrequency": 6105
                    },
                    "maxPsd": 18.5
                },
            ]
        }
    ]
}
```

```
{
  "frequencyRange": {
    "highFrequency": 6145,
    "lowFrequency": 6125
  },
  "maxPsd": 9.1
},
{
  "frequencyRange": {
    "highFrequency": 6165,
    "lowFrequency": 6145
  },
  "maxPsd": 15.7
},
{
  "frequencyRange": {
    "highFrequency": 6185,
    "lowFrequency": 6165
  },
  "maxPsd": 11.7
},
{
  "frequencyRange": {
    "highFrequency": 6205,
    "lowFrequency": 6185
  },
  "maxPsd": 10.7
},
{
  "frequencyRange": {
    "highFrequency": 6225,
    "lowFrequency": 6205
  },
  "maxPsd": 12.2
},
{
  "frequencyRange": {
```

```
        "highFrequency": 6245,
        "lowFrequency": 6225
    },
    "maxPsd": 11.3
},
{
    "frequencyRange": {
        "highFrequency": 6265,
        "lowFrequency": 6245
    },
    "maxPsd": 9.6
}
],
"availableChannelInfo": [
    {
        "channelCfi": [
            33,
            37,
            41,
            45,
            49,
            53,
            57,
            61
        ],
        "globalOperatingClass": 131,
        "maxEirp": [
            31.5,
            22.1,
            28.7,
            24.7,
            23.7,
            25.2,
            24.3,
            22.6
        ]
    }
],
},
```

```
{
  "channelCfi": [
    35,
    43,
    51,
    59
  ],
  "globalOperatingClass": 132,
  "maxEirp": [
    25.1,
    27.7,
    26.7,
    25.6
  ]
},
{
  "channelCfi": [
    39,
    55
  ],
  "globalOperatingClass": 133,
  "maxEirp": [
    28.1,
    28.6
  ]
},
{
  "channelCfi": [
    47
  ],
  "globalOperatingClass": 134,
  "maxEirp": [
    31.1
  ]
}
],
"requestId": "1726729287",
```

```
"availabilityExpireTime": "2024-09-20T06:01:38Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

##### 2024-09-19T06:05:28Z #####

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.168.68.1",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1344",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "1726729517",
        "deviceDescriptor": {
          "serialNumber": "aa9083ff403da8f1d4a736333dbb04eb",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "2BCGWBE65V2"
            }
          ]
        },
        "location": {
          "ellipse": {
            "center": {
              "longitude": -97.560616,
```

```
        "latitude": 33.180622
      },
      "majorAxis": 30,
      "minorAxis": 30,
      "orientation": 0.0
    },
    "elevation": {
      "height": 3.1,
      "heightType": "AGL",
      "verticalUncertainty": 10
    },
    "indoorDeployment": 1
  },
  "inquiredFrequencyRange": [
    {
      "lowFrequency": 5945,
      "highFrequency": 6425
    },
    {
      "lowFrequency": 6525,
      "highFrequency": 6865
    }
  ],
  "inquiredChannels": [
    {
      "globalOperatingClass": 131,
      "channelCfi": [
        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": [  
                35,  
                43,  
                51,  
                59,  
                67,  
                75,  
                83,  
                91,  
                123,  
                131,  
                139,  
                147,  
                155,  
                163,  
                171,  
                179  
            ]  
        },  
        {  
            "globalOperatingClass": 133,  
            "channelCfi": [  
                39,  
                55,  
                71,  
                87,  
                135,  
                151,  
                167
```

```
    ]
  },
  {
    "globalOperatingClass": 134,
    "channelCfi": [
      47,
      79,
      143
    ]
  },
  {
    "globalOperatingClass": 136
  },
  {
    "globalOperatingClass": 137,
    "channelCfi": [
      31,
      63
    ]
  }
],
"minDesiredPower": 24
}
]
}
}
```

##### 2024-09-19T06:05:28Z #####

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

```
"frequencyRange": {
  "highFrequency": 6285,
  "lowFrequency": 6265
},
"maxPsd": 9.4
},
{
  "frequencyRange": {
    "highFrequency": 6305,
    "lowFrequency": 6285
  },
  "maxPsd": 16.6
},
{
  "frequencyRange": {
    "highFrequency": 6325,
    "lowFrequency": 6305
  },
  "maxPsd": 18.2
},
{
  "frequencyRange": {
    "highFrequency": 6345,
    "lowFrequency": 6325
  },
  "maxPsd": 17.0
},
{
  "frequencyRange": {
    "highFrequency": 6365,
    "lowFrequency": 6345
  },
  "maxPsd": 9.6
},
{
  "frequencyRange": {
    "highFrequency": 6385,
```

```
        "lowFrequency": 6365
      },
      "maxPsd": 19.2
    },
    {
      "frequencyRange": {
        "highFrequency": 6405,
        "lowFrequency": 6385
      },
      "maxPsd": 19.0
    },
    {
      "frequencyRange": {
        "highFrequency": 6425,
        "lowFrequency": 6405
      },
      "maxPsd": 10.3
    },
    {
      "frequencyRange": {
        "highFrequency": 6605,
        "lowFrequency": 6585
      },
      "maxPsd": 10.2
    },
    {
      "frequencyRange": {
        "highFrequency": 6625,
        "lowFrequency": 6605
      },
      "maxPsd": 18.9
    },
    {
      "frequencyRange": {
        "highFrequency": 6645,
        "lowFrequency": 6625
      },
```

```
"maxPsd": 18.5
},
{
  "frequencyRange": {
    "highFrequency": 6665,
    "lowFrequency": 6645
  },
  "maxPsd": 11.0
},
{
  "frequencyRange": {
    "highFrequency": 6685,
    "lowFrequency": 6665
  },
  "maxPsd": 16.1
},
{
  "frequencyRange": {
    "highFrequency": 6705,
    "lowFrequency": 6685
  },
  "maxPsd": 14.8
},
{
  "frequencyRange": {
    "highFrequency": 6725,
    "lowFrequency": 6705
  },
  "maxPsd": 14.4
},
{
  "frequencyRange": {
    "highFrequency": 6745,
    "lowFrequency": 6725
  },
  "maxPsd": 11.9
}
```

```
],  
  "availableChannelInfo": [  
    {  
      "channelCfi": [  
        65,  
        69,  
        73,  
        77,  
        81,  
        85,  
        89,  
        93,  
        129,  
        133,  
        137,  
        141,  
        145,  
        149,  
        153,  
        157  
      ],  
      "globalOperatingClass": 131,  
      "maxEirp": [  
        22.4,  
        29.6,  
        31.2,  
        30.0,  
        22.6,  
        32.2,  
        32.0,  
        23.3,  
        23.2,  
        31.9,  
        31.5,  
        24.0,  
        29.1,  
        27.8,
```

```
        27.4,  
        24.9  
    ]  
  },  
  {  
    "channelCfi": [  
      67,  
      75,  
      83,  
      91,  
      131,  
      139,  
      147,  
      155  
    ],  
    "globalOperatingClass": 132,  
    "maxEirp": [  
      25.4,  
      33.0,  
      25.6,  
      26.3,  
      26.2,  
      27.0,  
      30.8,  
      27.9  
    ]  
  },  
  {  
    "channelCfi": [  
      71,  
      87,  
      135,  
      151  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
      28.4,
```

```
        28.6,  
        29.2,  
        30.9  
    ]  
  },  
  {  
    "channelCfi": [  
      79,  
      143  
    ],  
    "globalOperatingClass": 134,  
    "maxEirp": [  
      31.4,  
      32.2  
    ]  
  }  
],  
"requestId": "1726729517",  
"availabilityExpireTime": "2024-09-20T06:05:28Z",  
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
}  
],  
"version": "1.4"  
}
```

**CT\_AFC\_SP\_AP\_AFCDUSA32\_FrequencyChannel\_10629\_1**

##### 2024-09-19T06:11:52Z #####

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.168.68.1",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1344",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "1726729901",
        "deviceDescriptor": {
          "serialNumber": "aa9083ff403da8f1d4a736333dbb04eb",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "2BCGWBE65V2"
            }
          ]
        },
        "location": {
          "ellipse": {
            "center": {
              "longitude": -97.560616,
              "latitude": 33.180622
            },
            "majorAxis": 30,
            "minorAxis": 30,
            "orientation": 0.0
          }
        }
      }
    ]
  }
}
```

```
"elevation": {
  "height": 3.1,
  "heightType": "AGL",
  "verticalUncertainty": 10
},
"indoorDeployment": 1
},
"inquiredFrequencyRange": [
  {
    "lowFrequency": 5945,
    "highFrequency": 6425
  },
  {
    "lowFrequency": 6525,
    "highFrequency": 6865
  }
],
"inquiredChannels": [
  {
    "globalOperatingClass": 131,
    "channelCfi": [
      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": [
    35,
    43,
    51,
    59,
    67,
    75,
    83,
    91,
    123,
    131,
    139,
    147,
    155,
    163,
    171,
    179
  ]
},
{
  "globalOperatingClass": 133,
  "channelCfi": [
    39,
    55,
    71,
    87,
    135,
    151,
    167
  ]
},
{
  "globalOperatingClass": 134,
  "channelCfi": [
    47,
```

```
        79,
        143
      ]
    },
    {
      "globalOperatingClass": 136
    },
    {
      "globalOperatingClass": 137,
      "channelCfi": [
        31,
        63
      ]
    }
  ],
  "minDesiredPower": 24
}
]
}
```

```
##### 2024-09-19T06:11:52Z #####
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableFrequencyInfo": [],
      "availableChannelInfo": [],
      "requestId": "1726729901",
      "availabilityExpireTime": "2024-09-20T06:11:52Z",
      "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
    }
  ],
  "version": "1.4"
}
```



}

**CT\_AFC\_SP\_AP\_AFCDSAU33\_FrequencyChannel\_10630\_1**

##### 2024-09-19T06:18:42Z #####

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.168.68.1",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1344",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "1726730311",
        "deviceDescriptor": {
          "serialNumber": "aa9083ff403da8f1d4a736333dbb04eb",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "2BCGWBE65V2"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -97.560616,
          "latitude": 33.180622
        },
        "majorAxis": 30,
        "minorAxis": 30,
        "orientation": 0.0
      }
    }
  }
}
```

```
"elevation": {
  "height": 3.1,
  "heightType": "AGL",
  "verticalUncertainty": 10
},
"indoorDeployment": 1
},
"inquiredFrequencyRange": [
  {
    "lowFrequency": 5945,
    "highFrequency": 6425
  },
  {
    "lowFrequency": 6525,
    "highFrequency": 6865
  }
],
"inquiredChannels": [
  {
    "globalOperatingClass": 131,
    "channelCfi": [
      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": [
    35,
    43,
    51,
    59,
    67,
    75,
    83,
    91,
    123,
    131,
    139,
    147,
    155,
    163,
    171,
    179
  ]
},
{
  "globalOperatingClass": 133,
  "channelCfi": [
    39,
    55,
    71,
    87,
    135,
    151,
    167
  ]
},
{
  "globalOperatingClass": 134,
  "channelCfi": [
    47,
```

```
        79,
        143
    ]
},
{
    "globalOperatingClass": 136
},
{
    "globalOperatingClass": 137,
    "channelCfi": [
        31,
        63
    ]
}
],
"minDesiredPower": 24
}
]
}
}
```

##### 2024-09-19T06:18:42Z #####

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableFrequencyInfo": [
        {
          "frequencyRange": {
            "highFrequency": 6125,
            "lowFrequency": 6105
          },
          "maxPsd": 12.8
        },
      ]
    }
  ]
}
```

```
{
  "frequencyRange": {
    "highFrequency": 6145,
    "lowFrequency": 6125
  },
  "maxPsd": 15.0
},
{
  "frequencyRange": {
    "highFrequency": 6165,
    "lowFrequency": 6145
  },
  "maxPsd": 17.0
},
{
  "frequencyRange": {
    "highFrequency": 6185,
    "lowFrequency": 6165
  },
  "maxPsd": 17.8
},
{
  "frequencyRange": {
    "highFrequency": 6205,
    "lowFrequency": 6185
  },
  "maxPsd": 20.7
},
{
  "frequencyRange": {
    "highFrequency": 6225,
    "lowFrequency": 6205
  },
  "maxPsd": 20.8
},
{
  "frequencyRange": {
```

```
        "highFrequency": 6245,
        "lowFrequency": 6225
    },
    "maxPsd": 21.5
},
{
    "frequencyRange": {
        "highFrequency": 6265,
        "lowFrequency": 6245
    },
    "maxPsd": 13.8
},
{
    "frequencyRange": {
        "highFrequency": 6365,
        "lowFrequency": 6345
    },
    "maxPsd": 13.5
},
{
    "frequencyRange": {
        "highFrequency": 6385,
        "lowFrequency": 6365
    },
    "maxPsd": 12.3
},
{
    "frequencyRange": {
        "highFrequency": 6405,
        "lowFrequency": 6385
    },
    "maxPsd": 10.5
},
{
    "frequencyRange": {
        "highFrequency": 6425,
        "lowFrequency": 6405
```

```
    },
    "maxPsd": 12.4
  }
],
"availableChannelInfo": [
  {
    "channelCfi": [
      33,
      37,
      41,
      45,
      49,
      53,
      57,
      61,
      81,
      85,
      89,
      93
    ],
    "globalOperatingClass": 131,
    "maxEirp": [
      25.8,
      28.0,
      30.0,
      30.8,
      33.7,
      33.8,
      34.5,
      26.8,
      26.5,
      25.3,
      23.5,
      25.4
    ]
  }
],
{
```

```
"channelCfi": [  
    35,  
    43,  
    51,  
    59,  
    83,  
    91  
],  
"globalOperatingClass": 132,  
"maxEirp": [  
    28.8,  
    33.0,  
    36.0,  
    29.8,  
    28.3,  
    26.5  
]  
},  
{  
    "channelCfi": [  
        39,  
        55,  
        87  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
        31.8,  
        32.8,  
        29.5  
    ]  
},  
{  
    "channelCfi": [  
        47  
    ],  
    "globalOperatingClass": 134,  
    "maxEirp": [  
        31.8,  
        32.8,  
        29.5  
    ]  
}
```



```
        34.8
      ]
    }
  ],
  "requestId": "1726730311",
  "availabilityExpireTime": "2024-09-20T06:18:42Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

**CT\_AFC\_SP\_AP\_AFCDUUAU34\_FrequencyChannel\_10631\_1**

##### 2024-09-19T06:33:37Z #####

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.168.68.1",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1344",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "1726731205",
        "deviceDescriptor": {
          "serialNumber": "aa9083ff403da8f1d4a736333dbb04eb",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "2BCGWBE65V2"
            }
          ]
        },
        "location": {
          "ellipse": {
            "center": {
              "longitude": -97.560616,
              "latitude": 33.180622
            },
            "majorAxis": 30,
            "minorAxis": 30,
            "orientation": 0.0
          }
        }
      }
    ]
  }
}
```

```
"elevation": {
  "height": 3.1,
  "heightType": "AGL",
  "verticalUncertainty": 10
},
"indoorDeployment": 1
},
"inquiredFrequencyRange": [
  {
    "lowFrequency": 5945,
    "highFrequency": 6425
  },
  {
    "lowFrequency": 6525,
    "highFrequency": 6865
  }
],
"inquiredChannels": [
  {
    "globalOperatingClass": 131,
    "channelCfi": [
      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": [
    35,
    43,
    51,
    59,
    67,
    75,
    83,
    91,
    123,
    131,
    139,
    147,
    155,
    163,
    171,
    179
  ]
},
{
  "globalOperatingClass": 133,
  "channelCfi": [
    39,
    55,
    71,
    87,
    135,
    151,
    167
  ]
},
{
  "globalOperatingClass": 134,
  "channelCfi": [
    47,
```

```
        79,
        143
    ]
},
{
    "globalOperatingClass": 136
},
{
    "globalOperatingClass": 137,
    "channelCfi": [
        31,
        63
    ]
}
],
"minDesiredPower": 24
}
]
}
}
```

##### 2024-09-19T06:33:37Z #####

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableFrequencyInfo": [
        {
          "frequencyRange": {
            "highFrequency": 5965,
            "lowFrequency": 5945
          },
          "maxPsd": 23
        }
      ]
    }
  ]
}
```

```
{
  "frequencyRange": {
    "highFrequency": 5985,
    "lowFrequency": 5965
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6005,
    "lowFrequency": 5985
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6025,
    "lowFrequency": 6005
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6045,
    "lowFrequency": 6025
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6065,
    "lowFrequency": 6045
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
```

```
        "highFrequency": 6085,
        "lowFrequency": 6065
    },
    "maxPsd": 23
},
{
    "frequencyRange": {
        "highFrequency": 6105,
        "lowFrequency": 6085
    },
    "maxPsd": 23
},
{
    "frequencyRange": {
        "highFrequency": 6125,
        "lowFrequency": 6105
    },
    "maxPsd": 23
},
{
    "frequencyRange": {
        "highFrequency": 6145,
        "lowFrequency": 6125
    },
    "maxPsd": 23
},
{
    "frequencyRange": {
        "highFrequency": 6165,
        "lowFrequency": 6145
    },
    "maxPsd": 23
},
{
    "frequencyRange": {
        "highFrequency": 6185,
        "lowFrequency": 6165
```

```
    },
    "maxPsd": 23
  },
  {
    "frequencyRange": {
      "highFrequency": 6205,
      "lowFrequency": 6185
    },
    "maxPsd": 23
  },
  {
    "frequencyRange": {
      "highFrequency": 6245,
      "lowFrequency": 6225
    },
    "maxPsd": 23
  },
  {
    "frequencyRange": {
      "highFrequency": 6265,
      "lowFrequency": 6245
    },
    "maxPsd": 23
  },
  {
    "frequencyRange": {
      "highFrequency": 6285,
      "lowFrequency": 6265
    },
    "maxPsd": 23
  },
  {
    "frequencyRange": {
      "highFrequency": 6305,
      "lowFrequency": 6285
    },
    "maxPsd": 23
  }
```

```
    },  
    {  
      "frequencyRange": {  
        "highFrequency": 6325,  
        "lowFrequency": 6305  
      },  
      "maxPsd": 23  
    },  
    {  
      "frequencyRange": {  
        "highFrequency": 6345,  
        "lowFrequency": 6325  
      },  
      "maxPsd": 23  
    },  
    {  
      "frequencyRange": {  
        "highFrequency": 6365,  
        "lowFrequency": 6345  
      },  
      "maxPsd": 23  
    },  
    {  
      "frequencyRange": {  
        "highFrequency": 6385,  
        "lowFrequency": 6365  
      },  
      "maxPsd": 23  
    },  
    {  
      "frequencyRange": {  
        "highFrequency": 6405,  
        "lowFrequency": 6385  
      },  
      "maxPsd": 23  
    },  
    {
```

```
"frequencyRange": {
  "highFrequency": 6425,
  "lowFrequency": 6405
},
"maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6545,
    "lowFrequency": 6525
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6565,
    "lowFrequency": 6545
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6585,
    "lowFrequency": 6565
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6605,
    "lowFrequency": 6585
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6625,
```

```
        "lowFrequency": 6605
      },
      "maxPsd": 23
    },
    {
      "frequencyRange": {
        "highFrequency": 6645,
        "lowFrequency": 6625
      },
      "maxPsd": 23
    },
    {
      "frequencyRange": {
        "highFrequency": 6665,
        "lowFrequency": 6645
      },
      "maxPsd": 23
    },
    {
      "frequencyRange": {
        "highFrequency": 6685,
        "lowFrequency": 6665
      },
      "maxPsd": 23
    },
    {
      "frequencyRange": {
        "highFrequency": 6705,
        "lowFrequency": 6685
      },
      "maxPsd": 23
    },
    {
      "frequencyRange": {
        "highFrequency": 6725,
        "lowFrequency": 6705
      },
    },
```

```
"maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6745,
    "lowFrequency": 6725
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6765,
    "lowFrequency": 6745
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6785,
    "lowFrequency": 6765
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6805,
    "lowFrequency": 6785
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6825,
    "lowFrequency": 6805
  },
  "maxPsd": 23
},
},
```

```
{
  "frequencyRange": {
    "highFrequency": 6845,
    "lowFrequency": 6825
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6865,
    "lowFrequency": 6845
  },
  "maxPsd": 23
}
],
"availableChannelInfo": [
  {
    "channelCfi": [
      33,
      37,
      41,
      45,
      49,
      53,
      57,
      61,
      65,
      69,
      73,
      77,
      81,
      85,
      89,
      93,
      117,
      121,
      125,
```



```
        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": [  
        35,  
        43,  
        51,  
        59,  
        67,  
        75,  
        83,  
        91,  
        123,  
        131,  
        139,  
        147,  
        155,  
        163,  
        171,  
        179  
    ],  
    "globalOperatingClass": 132,  
    "maxEirp": [  
        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": [  
        39,  
        55,  
        71,  
        87,  
        135,  
        151,  
        167  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0  
    ]  
}
```

```
    },
    {
      "channelCfi": [
        47,
        79,
        143
      ],
      "globalOperatingClass": 134,
      "maxEirp": [
        36.0,
        36.0,
        36.0
      ]
    },
    {
      "channelCfi": [
        2
      ],
      "globalOperatingClass": 136,
      "maxEirp": [
        36.0
      ]
    }
  ],
  "requestId": "1726731205",
  "availabilityExpireTime": "2024-09-20T06:33:37Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

**CT\_AFC\_SP\_AP\_AFCDRSA31\_FrequencyChannel\_320MHz\_10715\_1**

##### 2024-10-16T06:33:00Z #####

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.168.68.1",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1340",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "1729060494",
        "deviceDescriptor": {
          "serialNumber": "aa9083ff403da8f1d4a736333dbb04eb",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "2BCGWBE65V2"
            }
          ]
        },
        "location": {
          "ellipse": {
            "center": {
              "longitude": -97.560616,
              "latitude": 33.180622
            },
            "majorAxis": 30,
            "minorAxis": 30,
            "orientation": 0.0
          }
        }
      }
    ]
  }
}
```

```
"elevation": {
  "height": 3.1,
  "heightType": "AGL",
  "verticalUncertainty": 10
},
"indoorDeployment": 1
},
"inquiredFrequencyRange": [
  {
    "lowFrequency": 5945,
    "highFrequency": 6425
  },
  {
    "lowFrequency": 6525,
    "highFrequency": 6865
  }
],
"inquiredChannels": [
  {
    "globalOperatingClass": 131,
    "channelCfi": [
      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": [
    35,
    43,
    51,
    59,
    67,
    75,
    83,
    91,
    123,
    131,
    139,
    147,
    155,
    163,
    171,
    179
  ]
},
{
  "globalOperatingClass": 133,
  "channelCfi": [
    39,
    55,
    71,
    87,
    135,
    151,
    167
  ]
},
{
  "globalOperatingClass": 134,
  "channelCfi": [
    47,
```

```
        79,  
        143  
    ]  
  },  
  {  
    "globalOperatingClass": 136  
  },  
  {  
    "globalOperatingClass": 137,  
    "channelCfi": [  
      63  
    ]  
  }  
],  
"minDesiredPower": 24  
}  
]  
}  
}
```

##### 2024-10-16T06:33:00Z #####

```
{  
  "availableSpectrumInquiryResponses": [  
    {  
      "response": {  
        "responseCode": 0,  
        "shortDescription": "SUCCESS"  
      },  
      "availableFrequencyInfo": [  
        {  
          "frequencyRange": {  
            "highFrequency": 6125,  
            "lowFrequency": 6105  
          },  
          "maxPsd": 17.9  
        },  
        {  

```

```
"frequencyRange": {
  "highFrequency": 6145,
  "lowFrequency": 6125
},
"maxPsd": 13.1
},
{
  "frequencyRange": {
    "highFrequency": 6165,
    "lowFrequency": 6145
  },
  "maxPsd": 12.8
},
{
  "frequencyRange": {
    "highFrequency": 6185,
    "lowFrequency": 6165
  },
  "maxPsd": 12.4
},
{
  "frequencyRange": {
    "highFrequency": 6205,
    "lowFrequency": 6185
  },
  "maxPsd": 15.8
},
{
  "frequencyRange": {
    "highFrequency": 6225,
    "lowFrequency": 6205
  },
  "maxPsd": 18.3
},
{
  "frequencyRange": {
    "highFrequency": 6245,
```

```
        "lowFrequency": 6225
      },
      "maxPsd": 11.7
    },
    {
      "frequencyRange": {
        "highFrequency": 6265,
        "lowFrequency": 6245
      },
      "maxPsd": 13.4
    },
    {
      "frequencyRange": {
        "highFrequency": 6285,
        "lowFrequency": 6265
      },
      "maxPsd": 10.1
    },
    {
      "frequencyRange": {
        "highFrequency": 6305,
        "lowFrequency": 6285
      },
      "maxPsd": 15.8
    },
    {
      "frequencyRange": {
        "highFrequency": 6325,
        "lowFrequency": 6305
      },
      "maxPsd": 14.3
    },
    {
      "frequencyRange": {
        "highFrequency": 6345,
        "lowFrequency": 6325
      },
    },
```

```
        "maxPsd": 11.5
      },
      {
        "frequencyRange": {
          "highFrequency": 6365,
          "lowFrequency": 6345
        },
        "maxPsd": 17.1
      },
      {
        "frequencyRange": {
          "highFrequency": 6385,
          "lowFrequency": 6365
        },
        "maxPsd": 21.0
      },
      {
        "frequencyRange": {
          "highFrequency": 6405,
          "lowFrequency": 6385
        },
        "maxPsd": 22.4
      },
      {
        "frequencyRange": {
          "highFrequency": 6425,
          "lowFrequency": 6405
        },
        "maxPsd": 19.5
      }
    ],
    "availableChannelInfo": [
      {
        "channelCfi": [
          33,
          37,
          41,
```

```
45,
49,
53,
57,
61,
65,
69,
73,
77,
81,
85,
89,
93
],
"globalOperatingClass": 131,
"maxEirp": [
30.9,
26.1,
25.8,
25.4,
28.8,
31.3,
24.7,
26.4,
23.1,
28.8,
27.3,
24.5,
30.1,
34.0,
35.4,
32.5
]
},
{
"channelCfi": [
35,
```

```
        43,
        51,
        59,
        67,
        75,
        83,
        91
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
        29.1,
        28.4,
        31.8,
        27.7,
        26.1,
        27.5,
        33.1,
        35.5
    ]
},
{
    "channelCfi": [
        39,
        55,
        71,
        87
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
        31.4,
        30.7,
        29.1,
        36.0
    ]
},
{
    "channelCfi": [
```

```
        47,
        79
    ],
    "globalOperatingClass": 134,
    "maxEirp": [
        33.7,
        32.1
    ]
},
{
    "channelCfi": [
        63
    ],
    "globalOperatingClass": 137,
    "maxEirp": [
        35.2
    ]
}
],
"requestId": "1729060494",
"availabilityExpireTime": "2024-10-17T06:33:00Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

##### 2024-10-16T06:52:27Z #####

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.168.68.1",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1340",
```

```
"Connection": "Keep-Alive"
},
"body": {
  "version": "1.4",
  "availableSpectrumInquiryRequests": [
    {
      "requestId": "1729061661",
      "deviceDescriptor": {
        "serialNumber": "aa9083ff403da8f1d4a736333dbb04eb",
        "certificationId": [
          {
            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
            "id": "2BCGWBE65V2"
          }
        ]
      }
    }
  ],
  "location": {
    "ellipse": {
      "center": {
        "longitude": -97.560616,
        "latitude": 33.180622
      },
      "majorAxis": 30,
      "minorAxis": 30,
      "orientation": 0.0
    },
    "elevation": {
      "height": 3.1,
      "heightType": "AGL",
      "verticalUncertainty": 10
    },
    "indoorDeployment": 1
  },
  "inquiredFrequencyRange": [
    {
      "lowFrequency": 5945,
      "highFrequency": 6425
    }
  ]
}
```

```
    },  
    {  
      "lowFrequency": 6525,  
      "highFrequency": 6865  
    }  
  ],  
  "inquiredChannels": [  
    {  
      "globalOperatingClass": 131,  
      "channelCfi": [  
        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": [  
    35,  
    43,  
    51,  
    59,  
    67,  
    75,  
    83,  
    91,
```

```
        123,
        131,
        139,
        147,
        155,
        163,
        171,
        179
    ]
},
{
    "globalOperatingClass": 133,
    "channelCfi": [
        39,
        55,
        71,
        87,
        135,
        151,
        167
    ]
},
{
    "globalOperatingClass": 134,
    "channelCfi": [
        47,
        79,
        143
    ]
},
{
    "globalOperatingClass": 136
},
{
    "globalOperatingClass": 137,
    "channelCfi": [
        63
```

```
    ]
  }
],
"minDesiredPower": 24
}
]
}
}
```

##### 2024-10-16T06:52:27Z #####

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableFrequencyInfo": [
        {
          "frequencyRange": {
            "highFrequency": 6125,
            "lowFrequency": 6105
          },
          "maxPsd": 4.3
        },
        {
          "frequencyRange": {
            "highFrequency": 6145,
            "lowFrequency": 6125
          },
          "maxPsd": 5.6
        },
        {
          "frequencyRange": {
            "highFrequency": 6165,
            "lowFrequency": 6145
          },

```

```
"maxPsd": 3.7
},
{
  "frequencyRange": {
    "highFrequency": 6185,
    "lowFrequency": 6165
  },
  "maxPsd": 6.9
},
{
  "frequencyRange": {
    "highFrequency": 6205,
    "lowFrequency": 6185
  },
  "maxPsd": 7.3
},
{
  "frequencyRange": {
    "highFrequency": 6225,
    "lowFrequency": 6205
  },
  "maxPsd": 7.2
},
{
  "frequencyRange": {
    "highFrequency": 6245,
    "lowFrequency": 6225
  },
  "maxPsd": 7.1
},
{
  "frequencyRange": {
    "highFrequency": 6265,
    "lowFrequency": 6245
  },
  "maxPsd": 5.0
},
```

```
{
  "frequencyRange": {
    "highFrequency": 6285,
    "lowFrequency": 6265
  },
  "maxPsd": 4.0
},
{
  "frequencyRange": {
    "highFrequency": 6305,
    "lowFrequency": 6285
  },
  "maxPsd": 4.1
},
{
  "frequencyRange": {
    "highFrequency": 6325,
    "lowFrequency": 6305
  },
  "maxPsd": 4.3
},
{
  "frequencyRange": {
    "highFrequency": 6345,
    "lowFrequency": 6325
  },
  "maxPsd": 11.7
},
{
  "frequencyRange": {
    "highFrequency": 6365,
    "lowFrequency": 6345
  },
  "maxPsd": 9.6
},
{
  "frequencyRange": {
```

```
        "highFrequency": 6385,
        "lowFrequency": 6365
      },
      "maxPsd": 10.0
    },
    {
      "frequencyRange": {
        "highFrequency": 6405,
        "lowFrequency": 6385
      },
      "maxPsd": 4.4
    },
    {
      "frequencyRange": {
        "highFrequency": 6425,
        "lowFrequency": 6405
      },
      "maxPsd": 0.5
    }
  ],
  "availableChannelInfo": [
    {
      "channelCfi": [
        33,
        37,
        41,
        45,
        49,
        53,
        57,
        61,
        65,
        69,
        73,
        77,
        81,
        85,
```

```
      89,  
      93  
    ],  
    "globalOperatingClass": 131,  
    "maxEirp": [  
      17.3,  
      18.6,  
      16.7,  
      19.9,  
      20.3,  
      20.2,  
      20.1,  
      18.0,  
      17.0,  
      17.1,  
      17.3,  
      24.7,  
      22.6,  
      23.0,  
      17.4,  
      13.5  
    ]  
  },  
  {  
    "channelCfi": [  
      35,  
      43,  
      51,  
      59,  
      67,  
      75,  
      83,  
      91  
    ],  
    "globalOperatingClass": 132,  
    "maxEirp": [  
      20.3,
```

```
        19.7,  
        23.2,  
        21.0,  
        20.0,  
        20.3,  
        25.6,  
        16.5  
    ]  
},  
{  
    "channelCfi": [  
        39,  
        55,  
        71,  
        87  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
        22.7,  
        24.0,  
        23.0,  
        19.5  
    ]  
},  
{  
    "channelCfi": [  
        47,  
        79  
    ],  
    "globalOperatingClass": 134,  
    "maxEirp": [  
        25.7,  
        22.5  
    ]  
},  
{  
    "channelCfi": [  

```

```
        63
      ],
      "globalOperatingClass": 137,
      "maxEirp": [
        25.6
      ]
    }
  ],
  "requestId": "1729061661",
  "availabilityExpireTime": "2024-10-17T06:52:27Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
},
"version": "1.4"
}
```

| 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 |
| 6295                                                          | LPI              | 20              | 3.00               | 1.83        | 4.83       | -                        | N/A    | -11.45        | -8.45              | 5.00                         | Pass   |
| 6135                                                          | SP               | 20              | 3.00               | 13.23       | 16.23      | 24.20                    | Pass   | -0.12         | 2.88               | 11.20                        | Pass   |
| 6215                                                          | SP               | 20              | 3.00               | 14.53       | 17.53      | 24.40                    | Pass   | 1.27          | 4.27               | 11.30                        | Pass   |
| 6605                                                          | LPI              | 40              | 3.00               | 4.95        | 7.95       | -                        | N/A    | -11.28        | -8.28              | 5.00                         | Pass   |
| 6365                                                          | SP               | 40              | 3.00               | 14.49       | 17.49      | 26.40                    | Pass   | -1.73         | 1.27               | 10.40                        | Pass   |
| 6125                                                          | SP               | 40              | 3.00               | 14.10       | 17.10      | 27.30                    | Pass   | -2.03         | 0.97               | 11.30                        | Pass   |
| 6145                                                          | LPI              | 80              | 3.00               | 7.70        | 10.70      | -                        | N/A    | -11.48        | -8.48              | 5.00                         | Pass   |
| 6625                                                          | SP               | 80              | 3.00               | 13.16       | 16.16      | 28.60                    | Pass   | -6.04         | -3.04              | 9.60                         | Pass   |
| 6305                                                          | SP               | 80              | 3.00               | 16.23       | 19.23      | 31.30                    | Pass   | -2.92         | 0.08               | 12.30                        | Pass   |
| 6345                                                          | LPI              | 160             | 3.00               | 11.09       | 14.09      | -                        | N/A    | -11.06        | -8.06              | 5.00                         | Pass   |
| 6185                                                          | SP               | 160             | 3.00               | 14.49       | 17.49      | 31.10                    | Pass   | -7.68         | -4.68              | 9.10                         | Pass   |
| 6345                                                          | SP               | 160             | 3.00               | 16.33       | 19.33      | 31.40                    | Pass   | -5.53         | -2.53              | 9.40                         | Pass   |
| 6265                                                          | LPI              | 320             | 3.00               | 14.13       | 17.13      | -                        | N/A    | -11.06        | -8.06              | 5.00                         | Pass   |
| 6265                                                          | SP               | 320             | 3.00               | 16.37       | 19.37      | 35.20                    | Pass   | -8.89         | -5.89              | 10.10                        | Pass   |
| 6265                                                          | SP               | 320             | 3.00               | 16.00       | 19.00      | 25.60                    | Pass   | -9.58         | -6.58              | 0.50                         | Pass   |

| 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 |
| 6375                                           | LPI              | 20              | 3.00               | 2.21        | 5.21       | -                        | N/A    | -10.86        | -7.86              | 5.00                         | Pass   |
| 6375                                           | LPI              | 20              | 3.00               | 2.46        | 5.46       | -                        | N/A    | -10.84        | -7.84              | 5.00                         | 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 |
| 6375                                        | LPI              | 20              | 3.00               | 2.51        | 5.51       | -                        | N/A    | -10.71        | -7.71              | 5.00                         | Pass   |
| 6235                                        | SP               | 20              | 3.00               | 14.61       | 17.61      | 34.50                    | Pass   | 1.25          | 4.25               | 21.50                        | Pass   |
| 6295                                        | LPI              | 20              | 3.00               | 2.05        | 5.05       | -                        | N/A    | -11.28        | -8.28              | 5.00                         | 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 |
| 6295                                          | LPI              | 20              | 3.00               | 2.05        | 5.05       | -                        | N/A    | -11.32        | -8.32              | 5.00                         | Pass   |
| 6115                                          | SP               | 20              | 3.00               | 13.66       | 16.66      | 36.00                    | Pass   | 0.79          | 3.79               | 23.00                        | Pass   |
| 6115                                          | LPI              | 20              | 3.00               | 1.87        | 4.87       | -                        | N/A    | -11.40        | -8.40              | 5.00                         | Pass   |

## AFC capability - Inquired Frequency & Channel

CT\_AFC\_SP\_AP\_AFCRSA31\_FrequencyChannel\_20MHz\_10625\_1

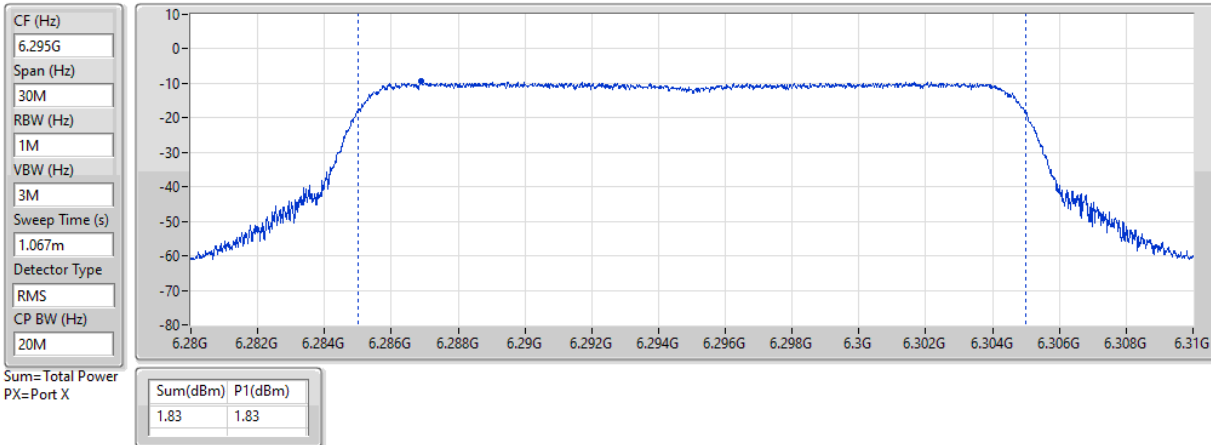
Frequency (MHz): 6295

5.925-6.425GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

AV Power

6295MHz\_TX

19/09/2024

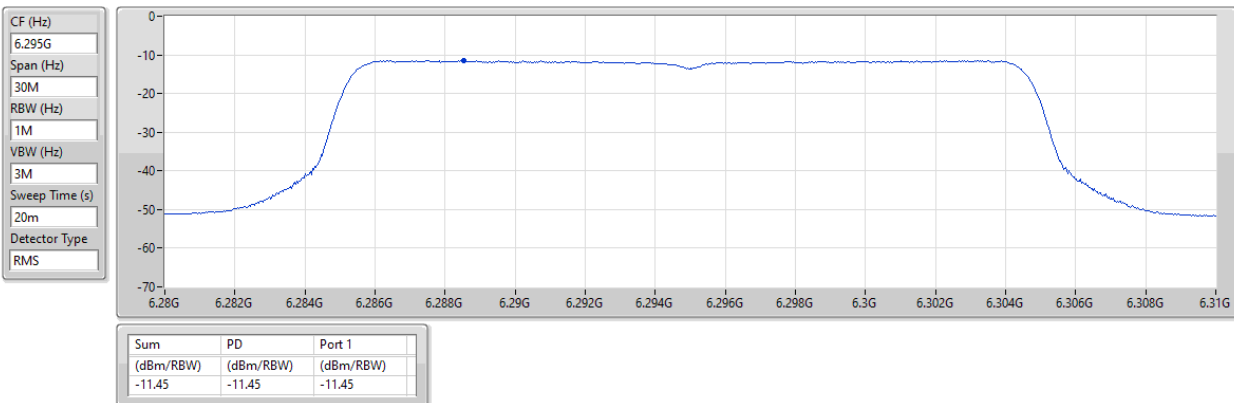


5.925-6.425GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

PSD

6295MHz

19/09/2024



Frequency (MHz): 6135

5.925-6.425GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

AV Power

6135MHz\_TX

19/09/2024

CF (Hz)  
6.135G

Span (Hz)  
30M

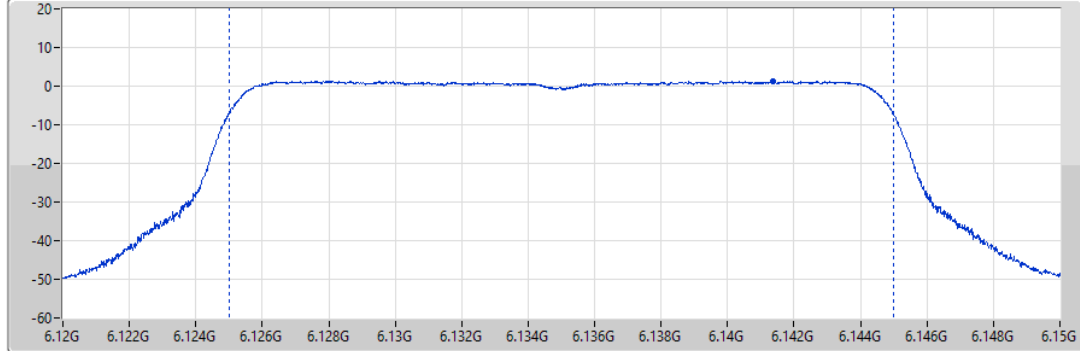
RBW (Hz)  
1M

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) |
|----------|---------|
| 13.23    | 13.23   |

5.925-6.425GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

PSD

6135MHz

19/09/2024

CF (Hz)  
6.135G

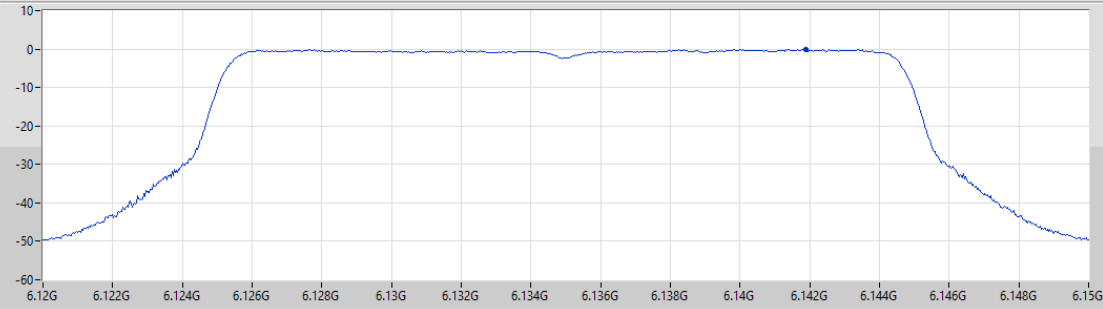
Span (Hz)  
30M

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) |
| -0.12     | -0.12     | -0.12     |

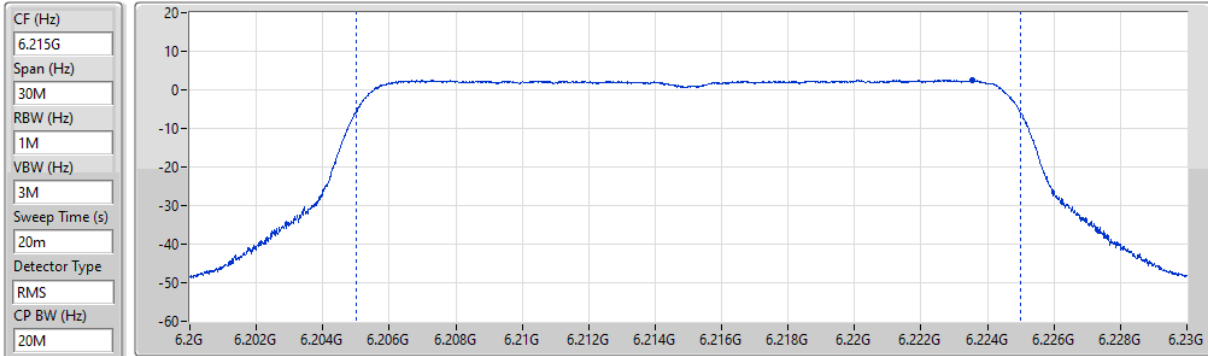
Frequency (MHz): 6215

5.925-6.425GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

AV Power

6215MHz\_TX

19/09/2024



Sum=Total Power  
PX=Port X

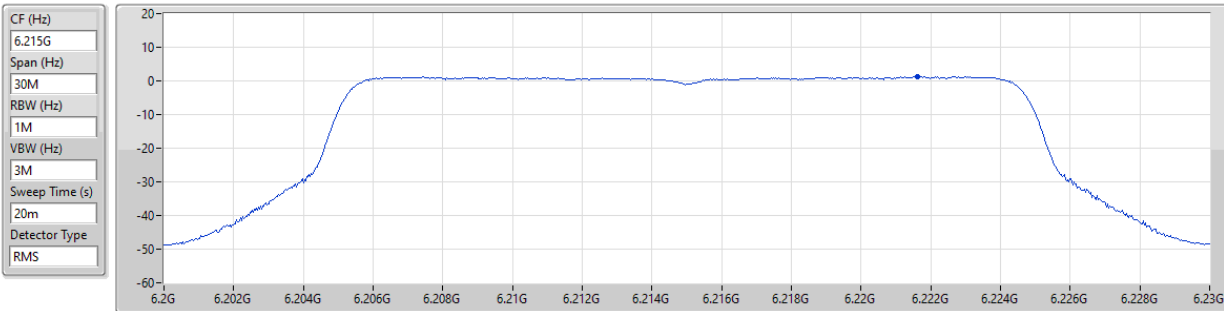
| Sum(dBm) | P1(dBm) |
|----------|---------|
| 14.53    | 14.53   |

5.925-6.425GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

PSD

6215MHz

19/09/2024



| Sum      | PD       | Port 1   |
|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| 1.27     | 1.27     | 1.27     |

CT\_AFC\_SP\_AP\_AFCRSA31\_FrequencyChannel\_40MHz\_10626\_1

Frequency (MHz): 6605

6.525-6.875GHz\_802.11be EHT40\_Nss1,(MCS0)\_1TX

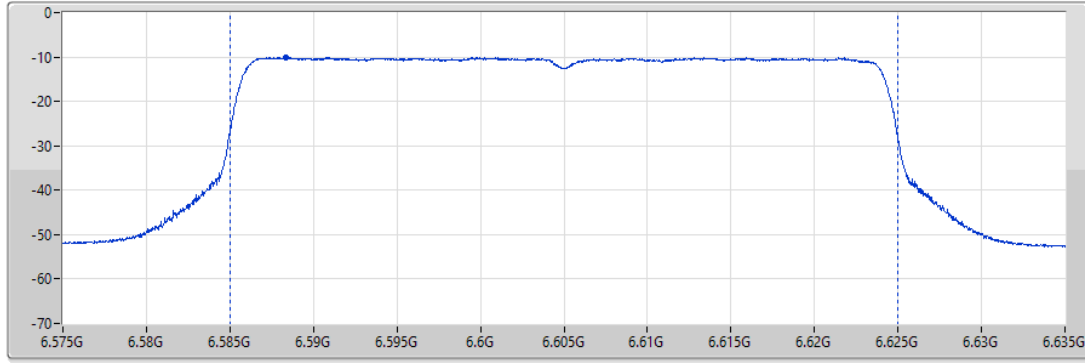
AV Power

6605MHz\_TX

19/09/2024

CF (Hz)  
6.605G  
Span (Hz)  
60M  
RBW (Hz)  
1M  
VBW (Hz)  
3M  
Sweep Time (s)  
20m  
Detector Type  
RMS  
CP BW (Hz)  
40M

Sum=Total Power  
PX=Port X



Port 1

| Sum(dBm) | P1(dBm) |
|----------|---------|
| 4.95     | 4.95    |

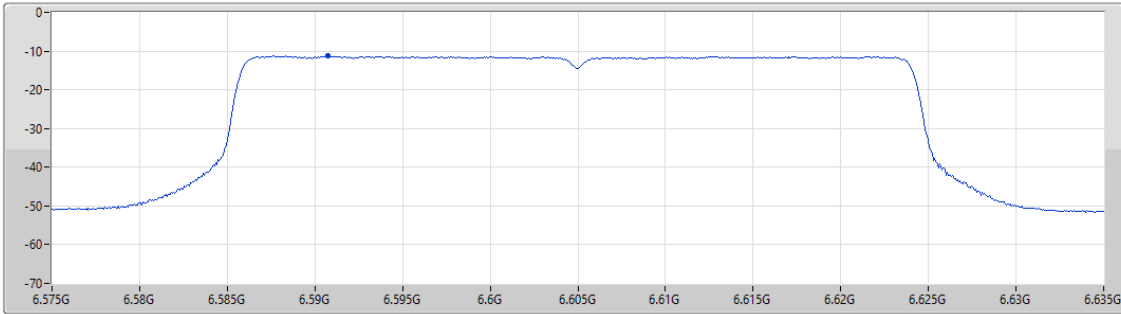
6.525-6.875GHz\_802.11be EHT40\_Nss1,(MCS0)\_1TX

PSD

6605MHz

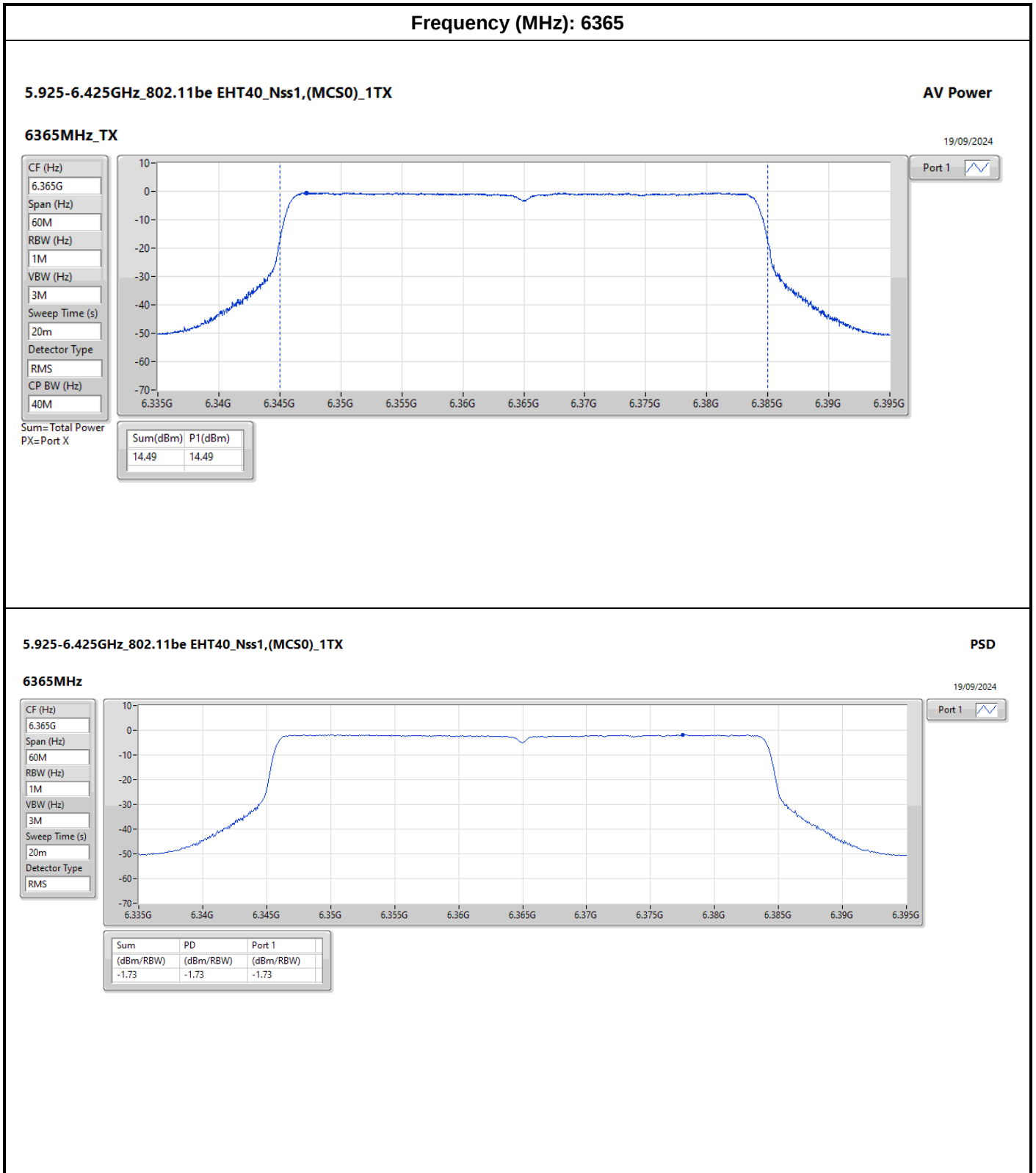
19/09/2024

CF (Hz)  
6.605G  
Span (Hz)  
60M  
RBW (Hz)  
1M  
VBW (Hz)  
3M  
Sweep Time (s)  
20m  
Detector Type  
RMS



Port 1

| Sum      | PD       | Port 1   |
|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -11.28   | -11.28   | -11.28   |



Frequency (MHz): 6125

5.925-6.425GHz\_802.11be EHT40\_Nss1,(MCS0)\_1TX

AV Power

6125MHz\_TX

19/09/2024

CF (Hz)  
6.125G

Span (Hz)  
60M

RBW (Hz)  
1M

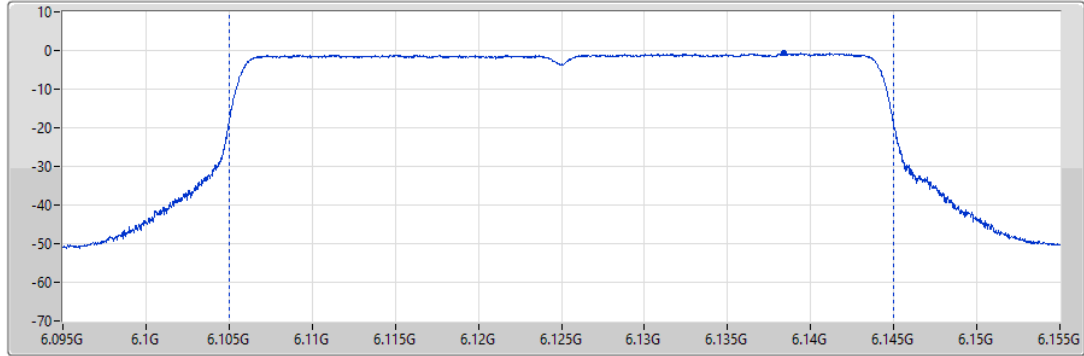
VBW (Hz)  
3M

Sweep Time (s)  
20m

Detector Type  
RMS

CP BW (Hz)  
40M

Sum=Total Power  
PX=Port X



Port 1

| Sum(dBm) | P1(dBm) |
|----------|---------|
| 14.10    | 14.10   |

5.925-6.425GHz\_802.11be EHT40\_Nss1,(MCS0)\_1TX

PSD

6125MHz

19/09/2024

CF (Hz)  
6.125G

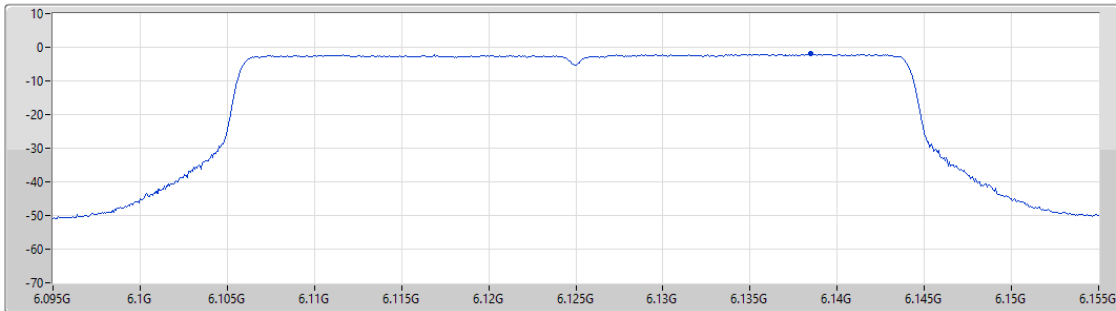
Span (Hz)  
60M

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) |
| -2.03     | -2.03     | -2.03     |

CT\_AFC\_SP\_AP\_AFCRSA31\_FrequencyChannel\_80MHz\_10627\_1

Frequency (MHz): 6145

5.925-6.425GHz\_802.11be EHT80\_Nss1,(MCS0)\_1TX

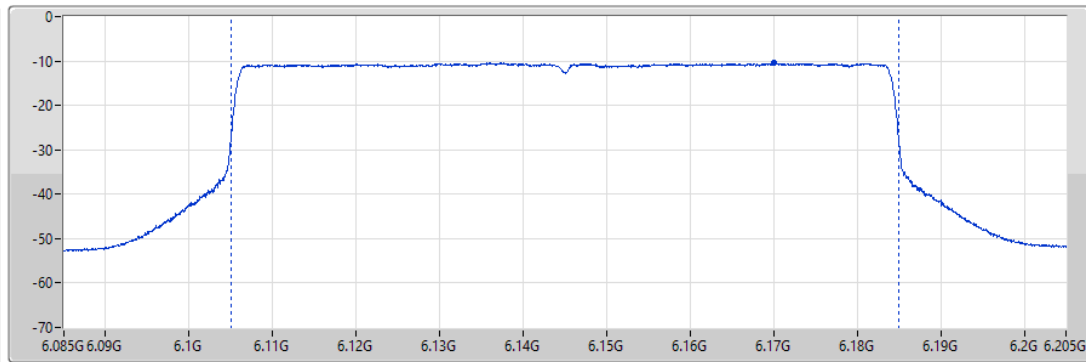
AV Power

6145MHz\_TX

19/09/2024

CF (Hz)  
6.145G  
Span (Hz)  
120M  
RBW (Hz)  
1M  
VBW (Hz)  
3M  
Sweep Time (s)  
20m  
Detector Type  
RMS  
CP BW (Hz)  
80M

Sum=Total Power  
PX=Port X



Port 1

| Sum(dBm) | P1(dBm) |
|----------|---------|
| 7.70     | 7.70    |

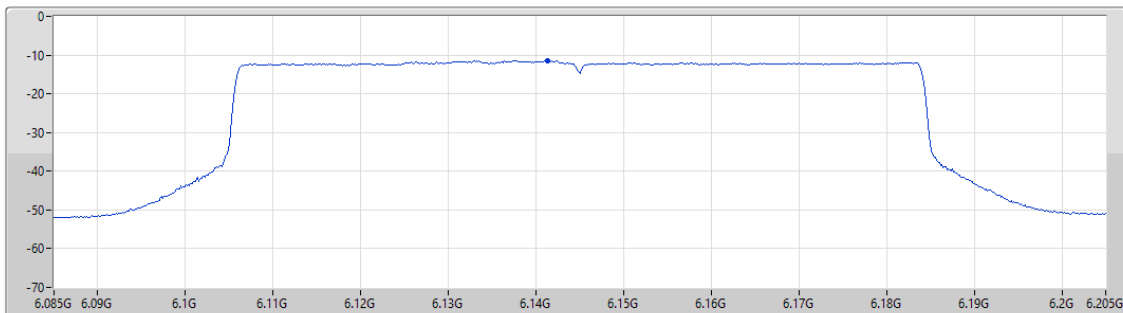
5.925-6.425GHz\_802.11be EHT80\_Nss1,(MCS0)\_1TX

PSD

6145MHz

19/09/2024

CF (Hz)  
6.145G  
Span (Hz)  
120M  
RBW (Hz)  
1M  
VBW (Hz)  
3M  
Sweep Time (s)  
20m  
Detector Type  
RMS



Port 1

| Sum      | PD       | Port 1   |
|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -11.48   | -11.48   | -11.48   |

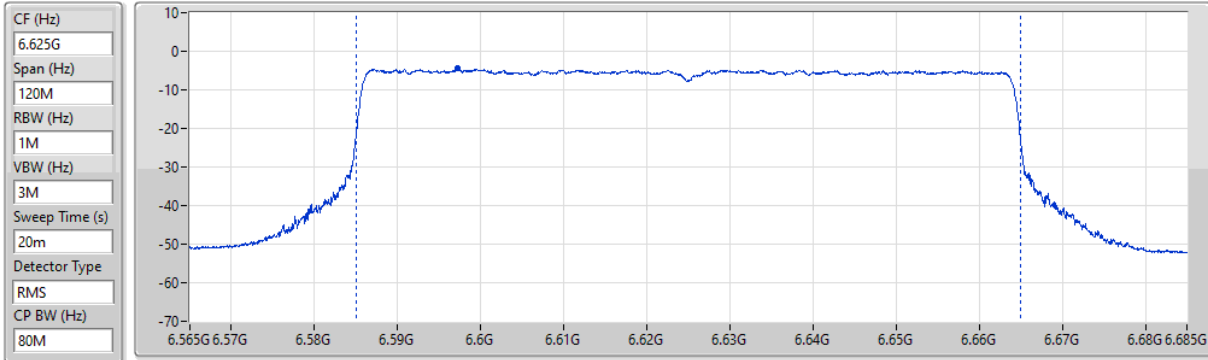
Frequency (MHz): 6625

6.525-6.875GHz\_802.11be EHT80\_Nss1,(MCS0)\_1TX

AV Power

6625MHz\_TX

19/09/2024



Sum=Total Power  
PX=Port X

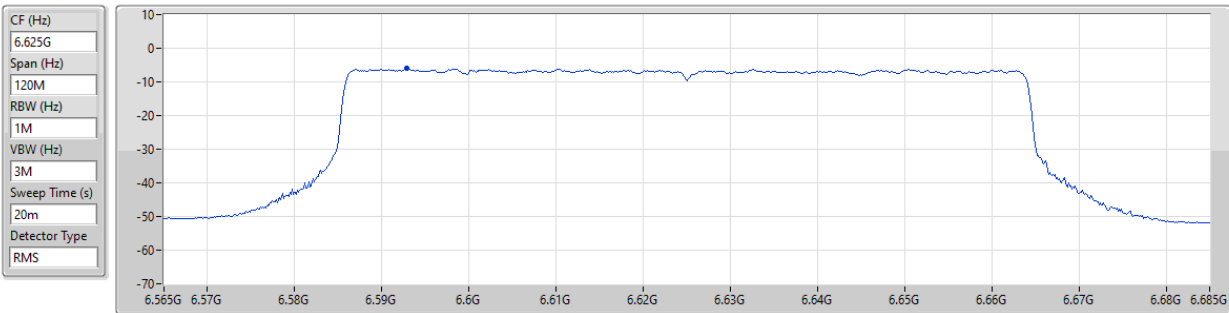
| Sum(dBm) | P1(dBm) |
|----------|---------|
| 13.16    | 13.16   |

6.525-6.875GHz\_802.11be EHT80\_Nss1,(MCS0)\_1TX

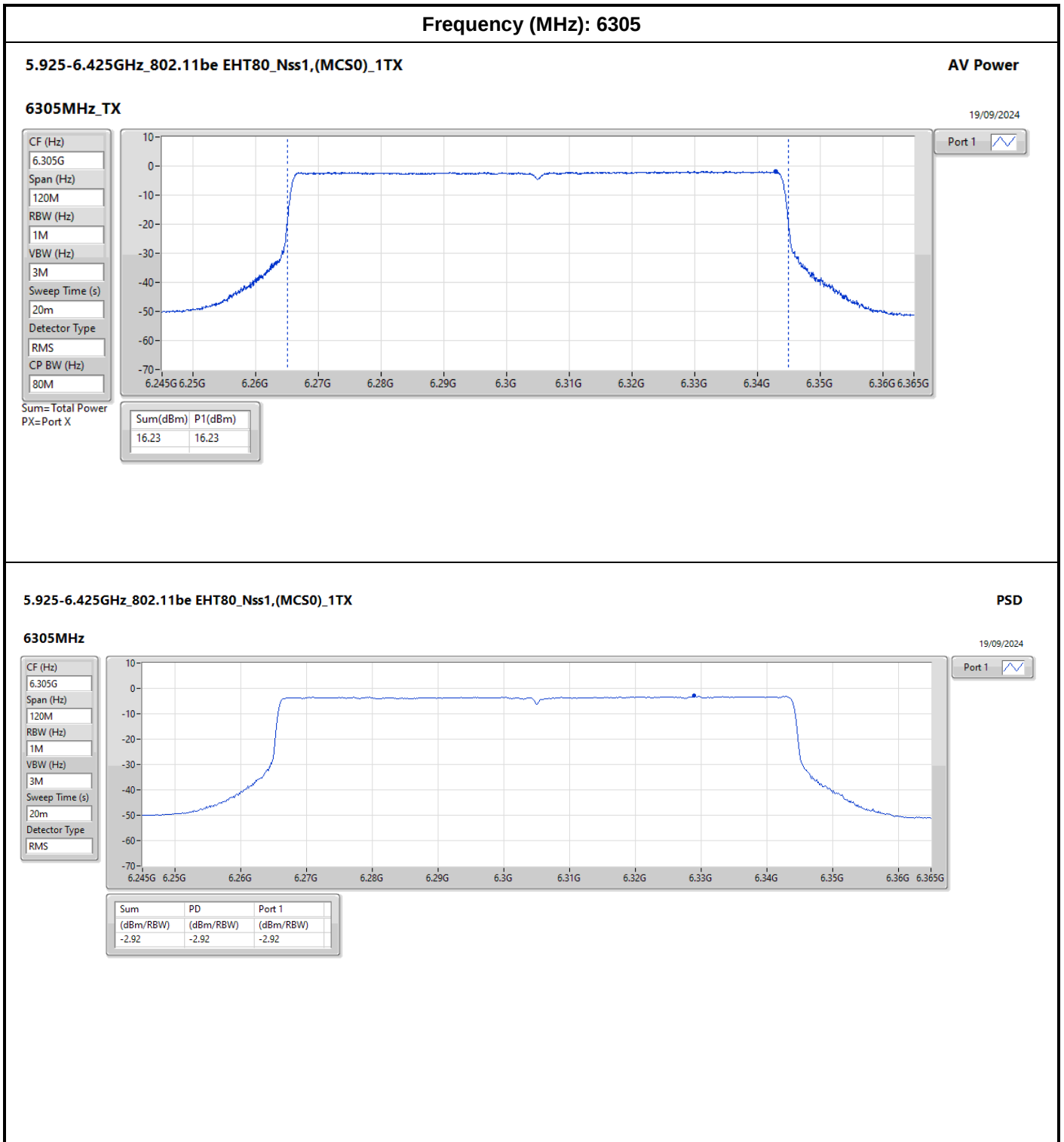
PSD

6625MHz

19/09/2024



| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -6.04     | -6.04     | -6.04     |



**5.925-6.425GHz\_802.11be EHT80\_Nss1,(MCS0)\_1TX**
**PSD**

**6305MHz**
19/09/2024

CF (Hz)  
6.305G

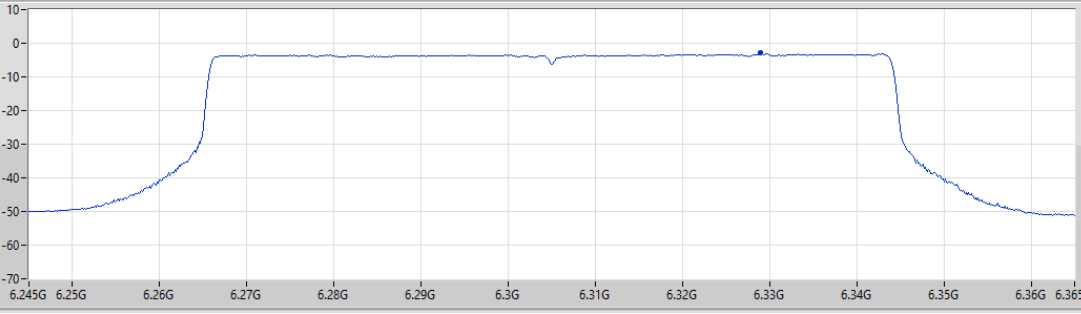
Span (Hz)  
120M

RBW (Hz)  
1M

VBW (Hz)  
3M

Sweep Time (s)  
20m

Detector Type  
RMS



| Sum      | PD       | Port 1   |
|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -2.92    | -2.92    | -2.92    |

Port 1

CT\_AFC\_SP\_AP\_AFCDRSA31\_FrequencyChannel\_160MHz\_10628\_1

Frequency (MHz): 6345

5.925-6.425GHz\_802.11be EHT160\_Nss1,(MCS0)\_1TX

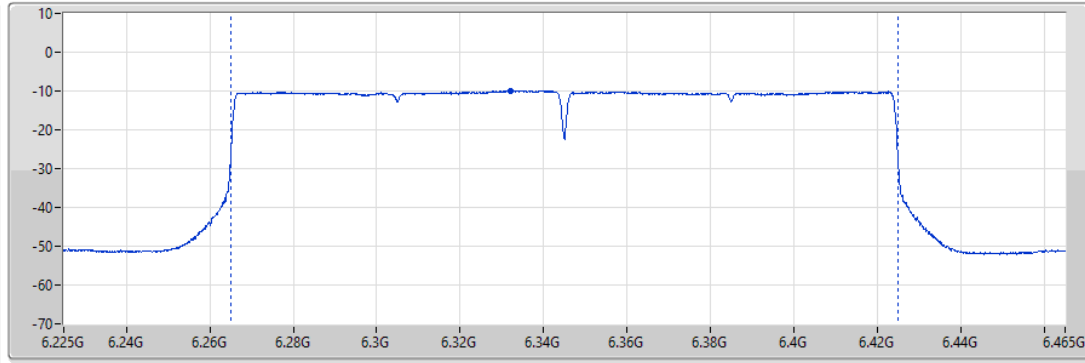
AV Power

6345MHz\_TX

19/09/2024

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

Sum=Total Power  
PX=Port X



| Sum(dBm) | P1(dBm) |
|----------|---------|
| 11.09    | 11.09   |

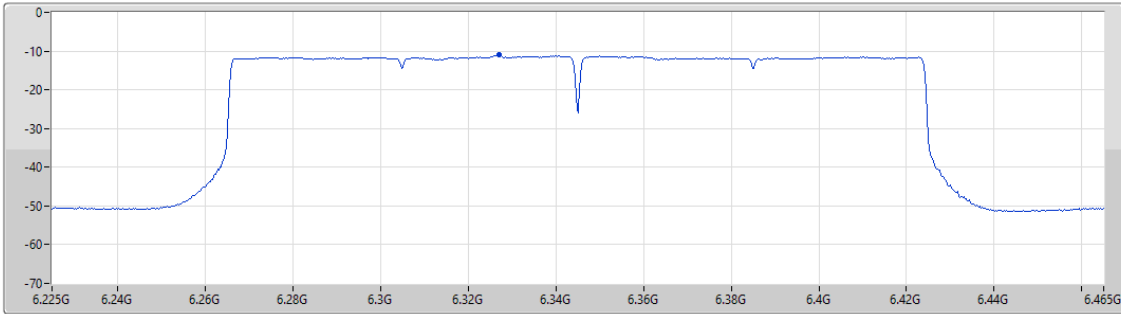
5.925-6.425GHz\_802.11be EHT160\_Nss1,(MCS0)\_1TX

PSD

6345MHz

19/09/2024

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



| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -11.06    | -11.06    | -11.06    |

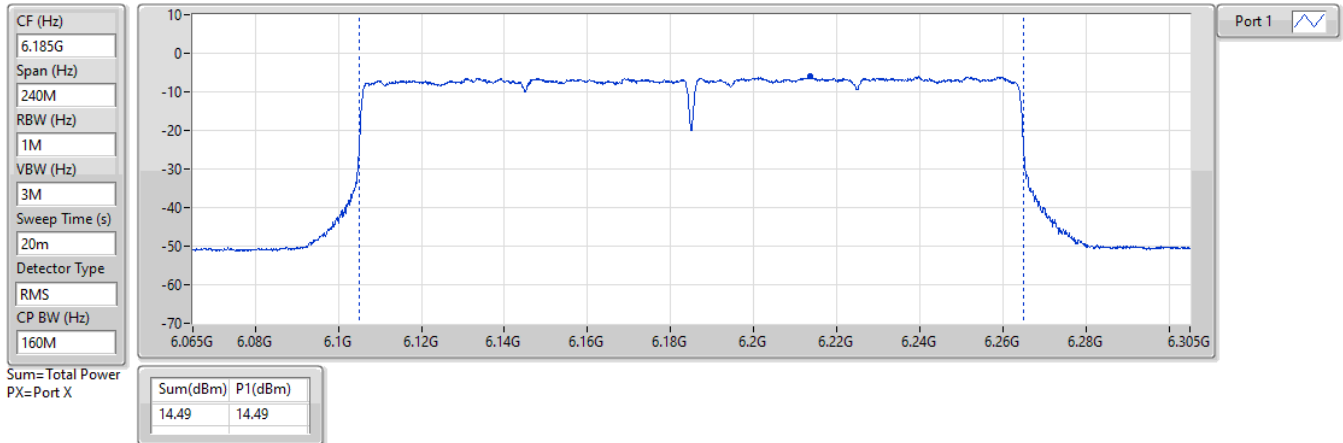
Frequency (MHz): 6185

5.925-6.425GHz\_802.11be EHT160\_Nss1,(MCS0)\_1TX

AV Power

6185MHz\_TX

19/09/2024

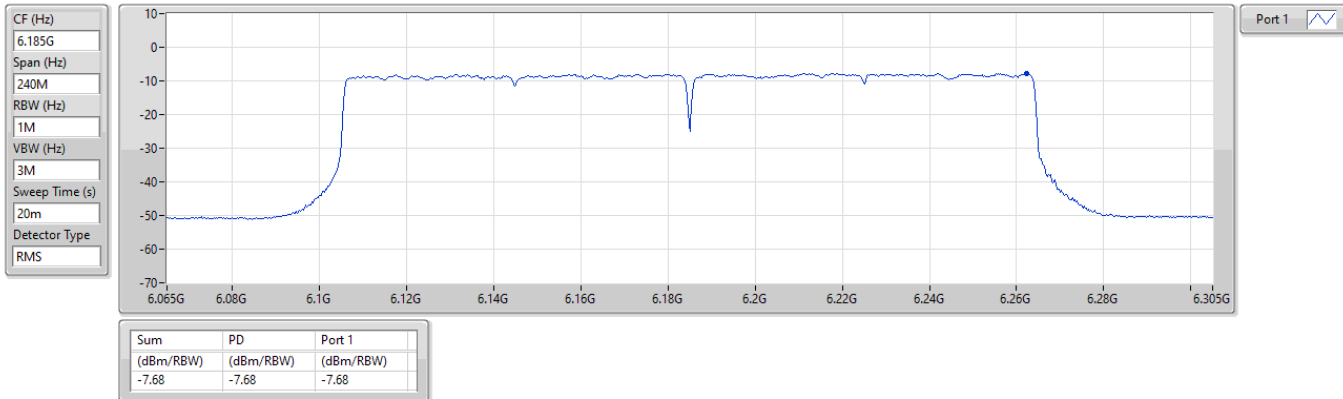


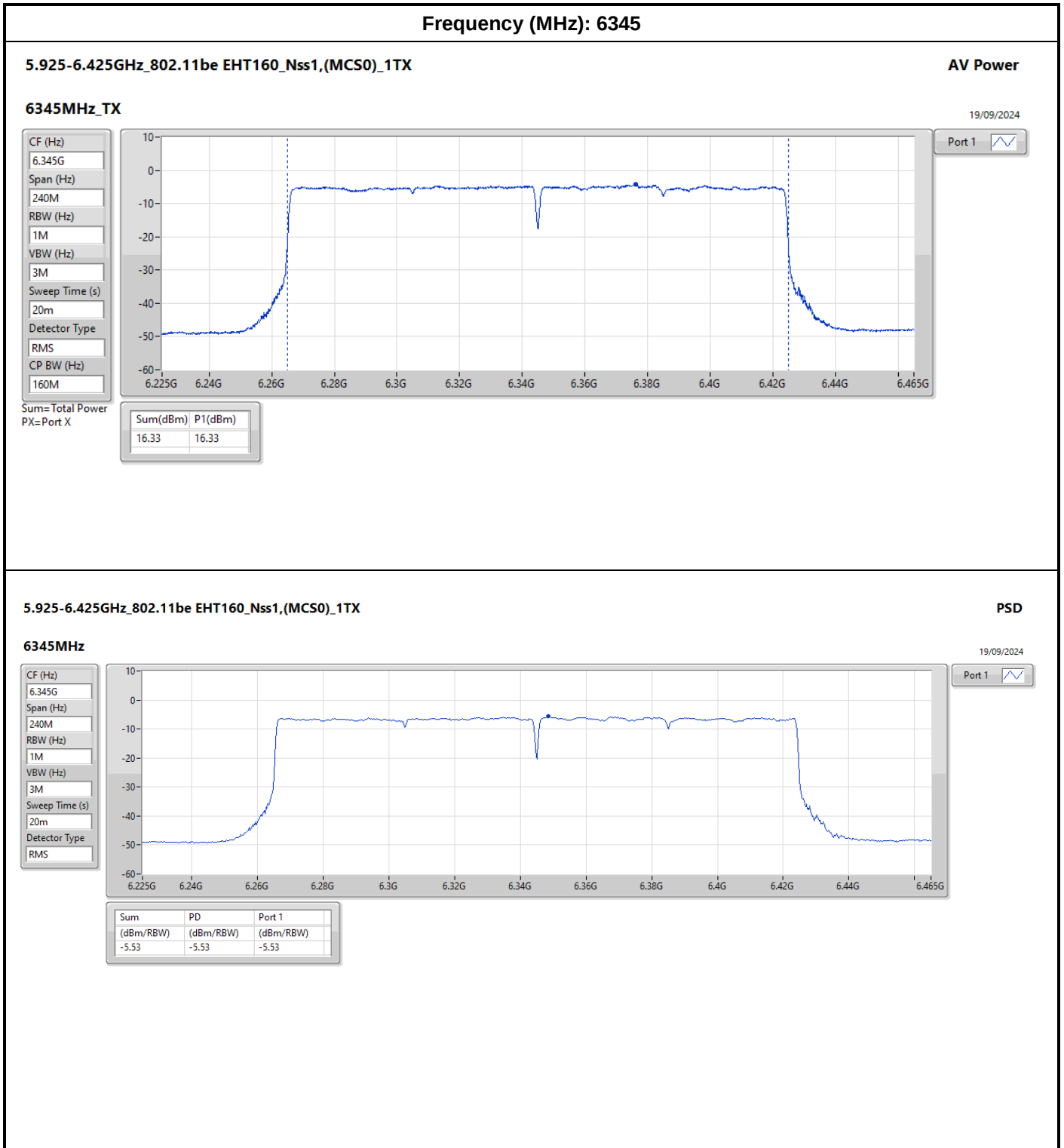
5.925-6.425GHz\_802.11be EHT160\_Nss1,(MCS0)\_1TX

PSD

6185MHz

19/09/2024





**5.925-6.425GHz\_802.11be EHT160\_Nss1,(MCS0)\_1TX**

**PSD**

**6345MHz**

19/09/2024

CF (Hz)  
6.345G

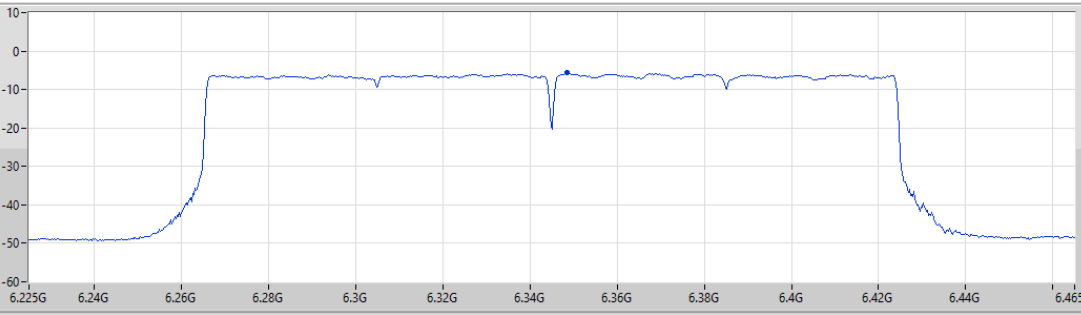
Span (Hz)  
240M

RBW (Hz)  
1M

VBW (Hz)  
3M

Sweep Time (s)  
20m

Detector Type  
RMS



Port 1

## CT\_AFC\_SP\_AP\_AFCDUSA32\_FrequencyChannel\_320MHz\_10715\_1

Frequency (MHz): 6265

5.925-6.425GHz\_802.11be EHT320\_Nss1,(MCS0)\_1TX

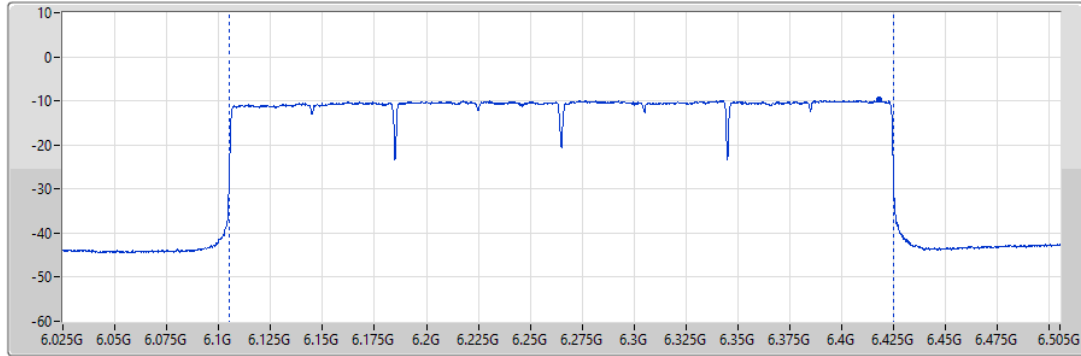
AV Power

6265MHz\_TX

16/10/2024

CF (Hz)  
6.265G  
Span (Hz)  
480M  
RBW (Hz)  
1M  
VBW (Hz)  
3M  
Sweep Time (s)  
20m  
Detector Type  
RMS  
CP BW (Hz)  
320M

Sum=Total Power  
PX=Port X



Port 1

| Sum(dBm) | P1(dBm) |
|----------|---------|
| 14.13    | 14.13   |

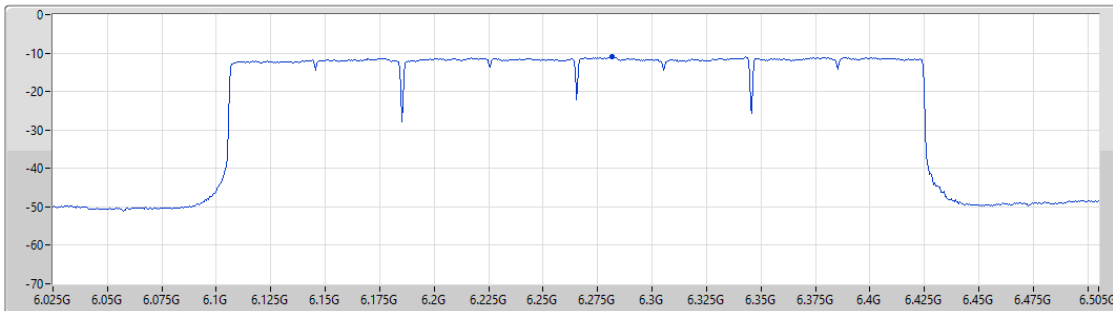
5.925-6.425GHz\_802.11be EHT320\_Nss1,(MCS0)\_1TX

PSD

6265MHz

16/10/2024

CF (Hz)  
6.265G  
Span (Hz)  
480M  
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) |
| -11.06    | -11.06    | -11.06    |

Frequency (MHz): 6265

5.925-6.425GHz\_802.11be EHT320\_Nss1,(MCS0)\_1TX

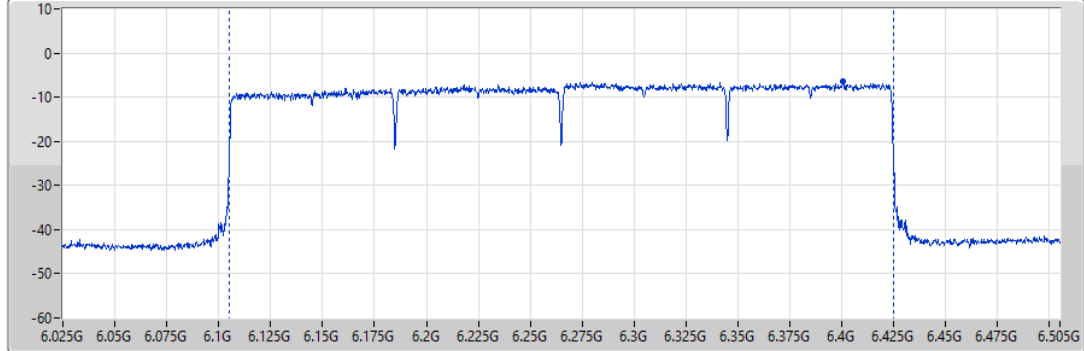
AV Power

6265MHz\_TX

16/10/2024

CF (Hz)  
6.265G  
Span (Hz)  
480M  
RBW (Hz)  
1M  
VBW (Hz)  
3M  
Sweep Time (s)  
1.067m  
Detector Type  
RMS  
CP BW (Hz)  
320M

Sum=Total Power  
PX=Port X



Port 1

| Sum(dBm) | P1(dBm) |
|----------|---------|
| 16.37    | 16.37   |

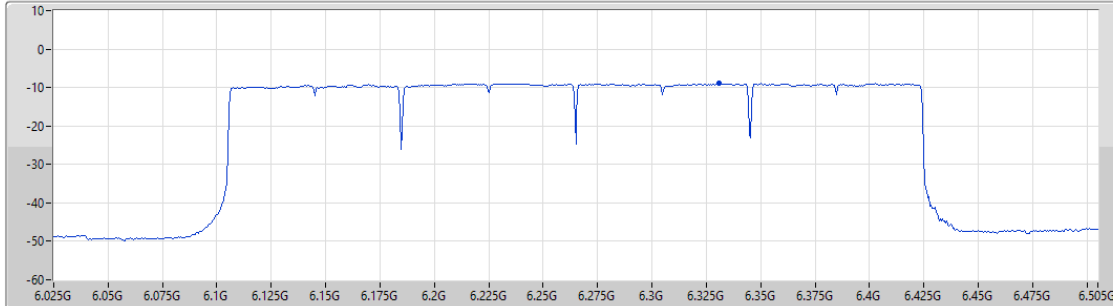
5.925-6.425GHz\_802.11be EHT320\_Nss1,(MCS0)\_1TX

PSD

6265MHz

16/10/2024

CF (Hz)  
6.265G  
Span (Hz)  
480M  
RBW (Hz)  
1M  
VBW (Hz)  
3M  
Sweep Time (s)  
20m  
Detector Type  
RMS



Port 1

| Sum      | PD       | Port 1   |
|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -8.89    | -8.89    | -8.89    |

Frequency (MHz): 6265

5.925-6.425GHz\_802.11be EHT320\_Nss1,(MCS0)\_1TX

AV Power

6265MHz\_TX

16/10/2024

CF (Hz)  
6.265G

Span (Hz)  
480M

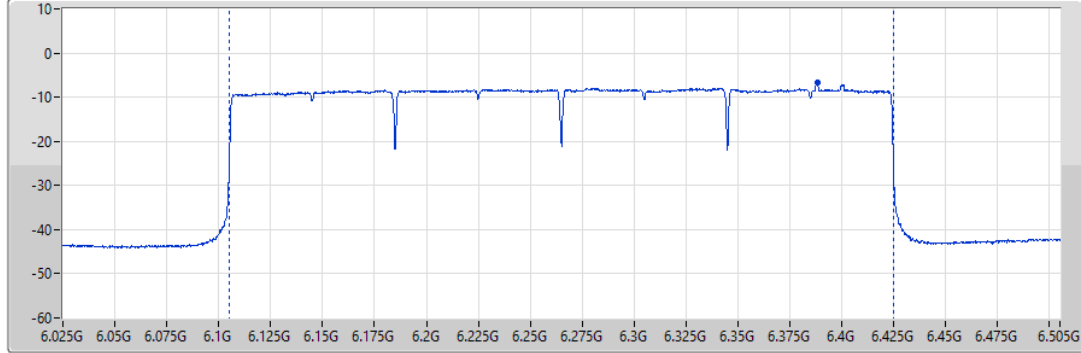
RBW (Hz)  
1M

VBW (Hz)  
3M

Sweep Time (s)  
20m

Detector Type  
RMS

CP BW (Hz)  
320M



Port 1

Sum=Total Power  
PX=Port X

| Sum(dBm) | P1(dBm) |
|----------|---------|
| 16.00    | 16.00   |

5.925-6.425GHz\_802.11be EHT320\_Nss1,(MCS0)\_1TX

PSD

6265MHz

16/10/2024

CF (Hz)  
6.265G

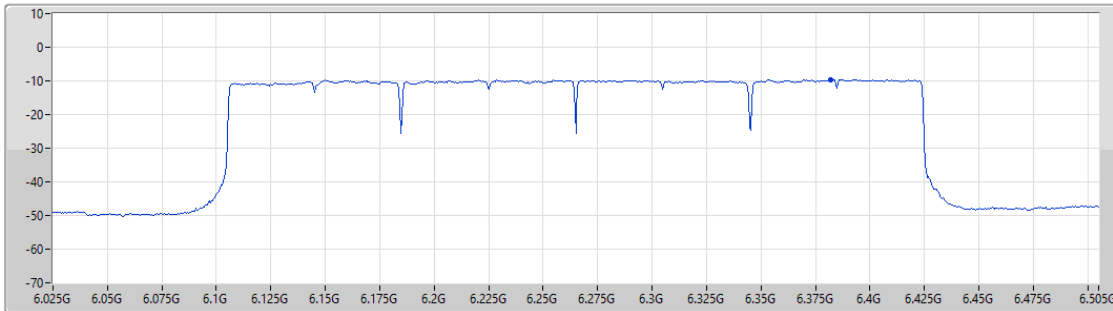
Span (Hz)  
480M

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) |
| -9.58     | -9.58     | -9.58     |

## CT\_AFC\_SP\_AP\_AFCDUSA32\_FrequencyChannel\_10629\_1

Frequency (MHz): 6375

5.925-6.425GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

AV Power

6375MHz\_TX

19/09/2024

CF (Hz)  
6.375G

Span (Hz)  
30M

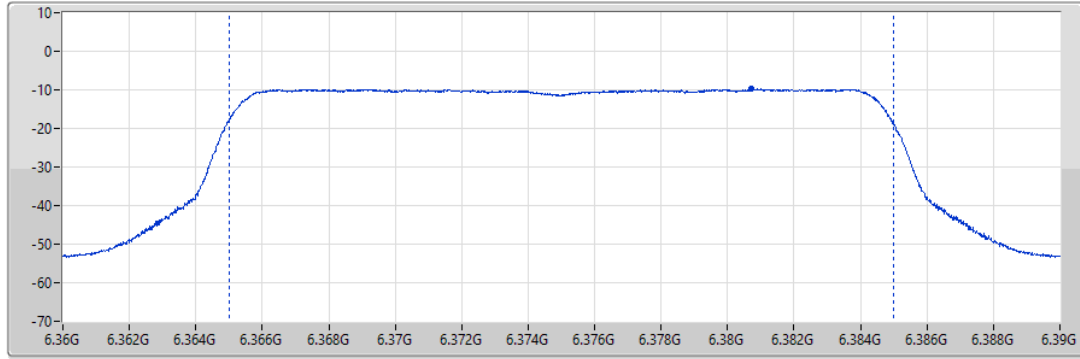
RBW (Hz)  
1M

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) |
|----------|---------|
| 2.21     | 2.21    |

5.925-6.425GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

PSD

6375MHz

19/09/2024

CF (Hz)  
6.375G

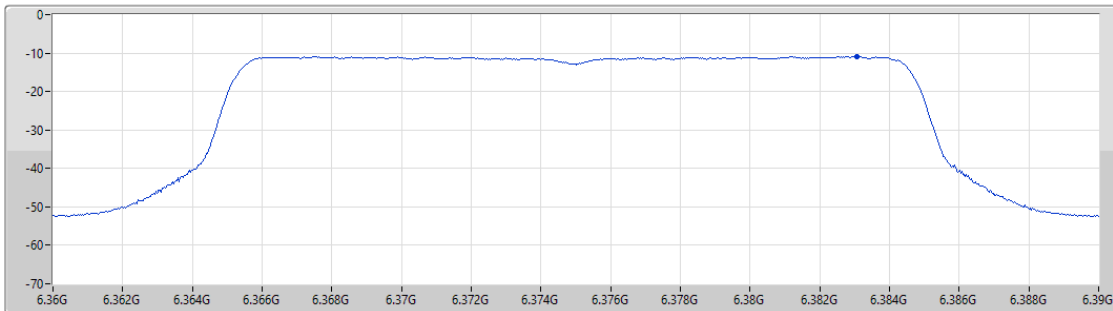
Span (Hz)  
30M

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) |
| -10.86    | -10.86    | -10.86    |

Frequency (MHz): 6375

5.925-6.425GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

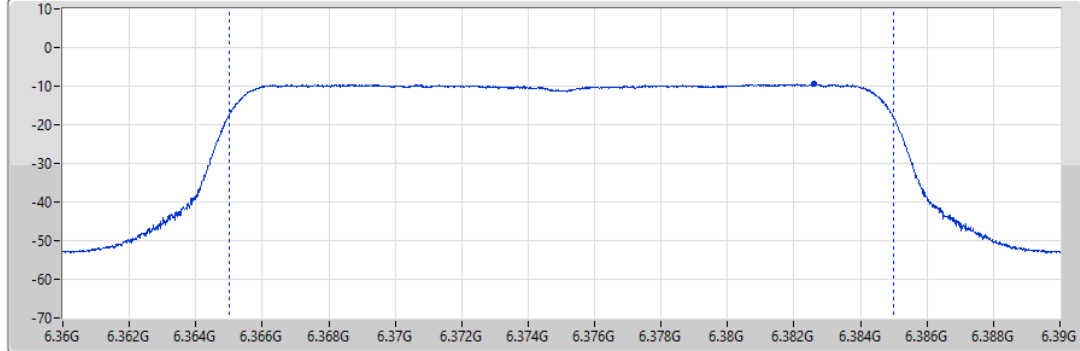
AV Power

6375MHz\_TX

19/09/2024

CF (Hz)  
6.375G  
Span (Hz)  
30M  
RBW (Hz)  
1M  
VBW (Hz)  
3M  
Sweep Time (s)  
20m  
Detector Type  
RMS  
CP BW (Hz)  
20M

Sum=Total Power  
PX=Port X



Port 1

| Sum(dBm) | P1(dBm) |
|----------|---------|
| 2.46     | 2.46    |

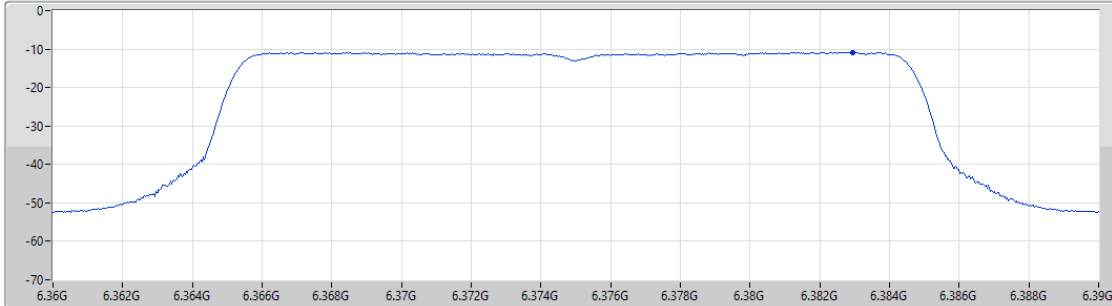
5.925-6.425GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

PSD

6375MHz

19/09/2024

CF (Hz)  
6.375G  
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) |
| -10.84    | -10.84    | -10.84    |

## CT\_AFC\_SP\_AP\_AFCDSAU33\_FrequencyChannel\_10630\_1

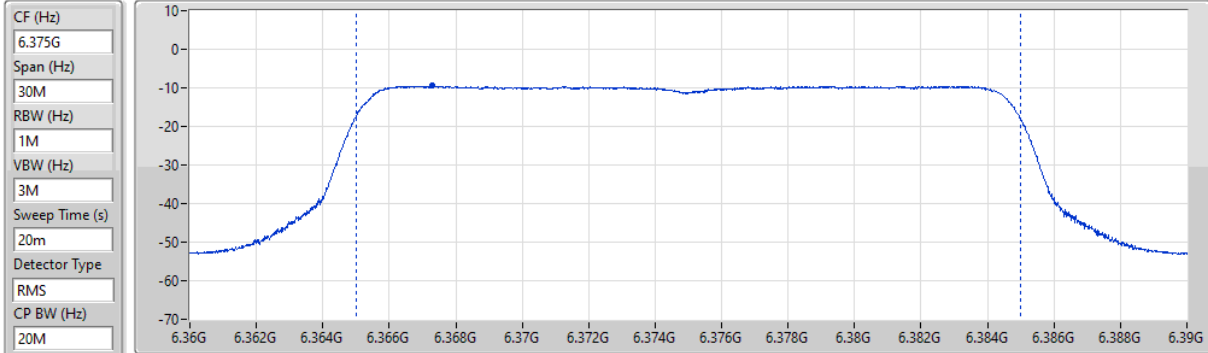
Frequency (MHz): 6375

5.925-6.425GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

AV Power

6375MHz\_TX

19/09/2024



Sum=Total Power  
PX=Port X

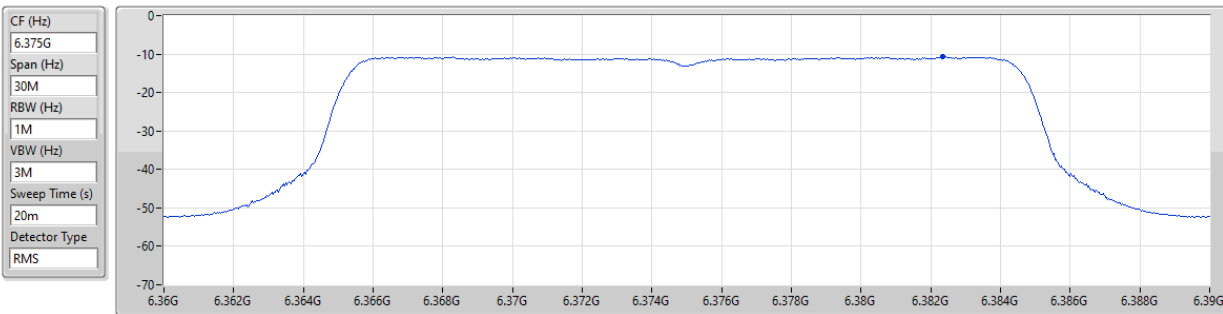
| Sum(dBm) | P1(dBm) |
|----------|---------|
| 2.51     | 2.51    |

5.925-6.425GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

PSD

6375MHz

19/09/2024



| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -10.71    | -10.71    | -10.71    |

Frequency (MHz): 6235

5.925-6.425GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

AV Power

6235MHz\_TX

19/09/2024

CF (Hz)  
6.235G

Span (Hz)  
30M

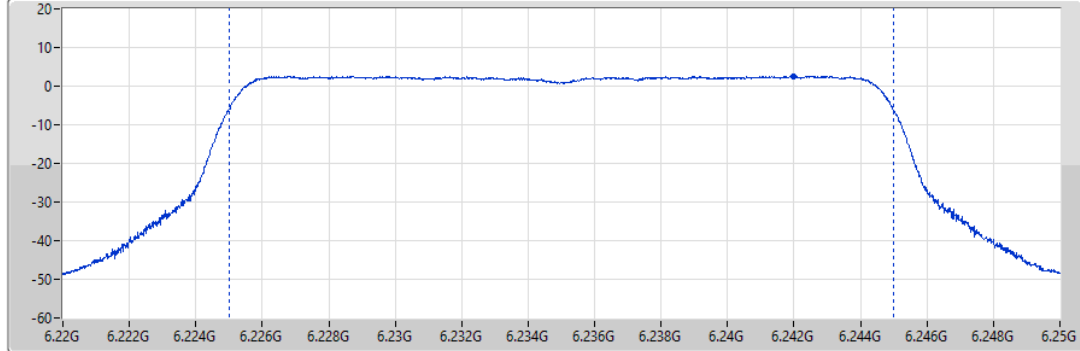
RBW (Hz)  
1M

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) |
|----------|---------|
| 14.61    | 14.61   |

5.925-6.425GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

PSD

6235MHz

19/09/2024

CF (Hz)  
6.235G

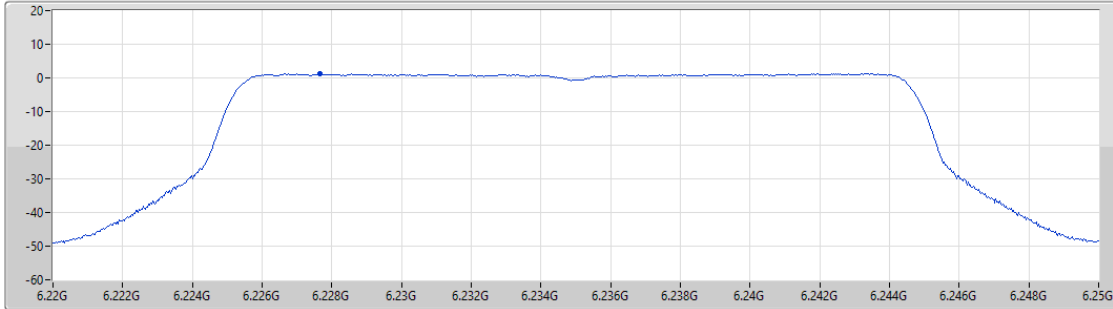
Span (Hz)  
30M

RBW (Hz)  
1M

VBW (Hz)  
3M

Sweep Time (s)  
20m

Detector Type  
RMS



Port 1

| Sum<br>(dBm/Hz) | PD<br>(dBm/Hz) | Port 1<br>(dBm/Hz) |
|-----------------|----------------|--------------------|
| 1.25            | 1.25           | 1.25               |

Frequency (MHz): 6295

5.925-6.425GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

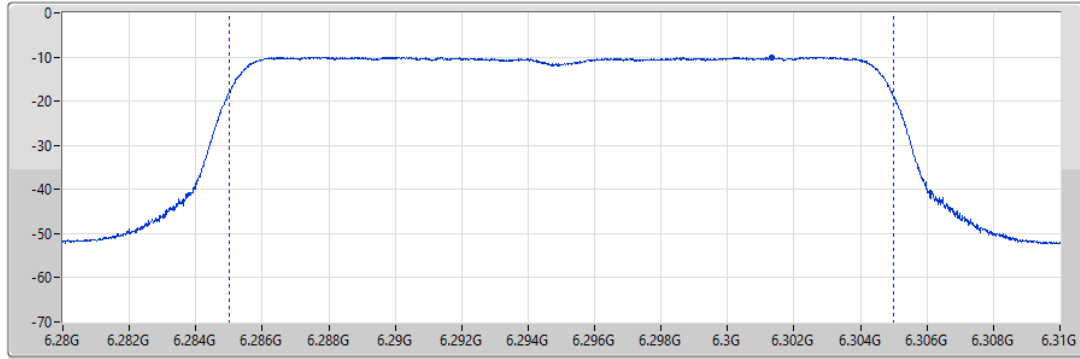
AV Power

6295MHz\_TX

19/09/2024

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

Sum=Total Power  
PX=Port X



Port 1

| Sum(dBm) | P1(dBm) |
|----------|---------|
| 2.05     | 2.05    |

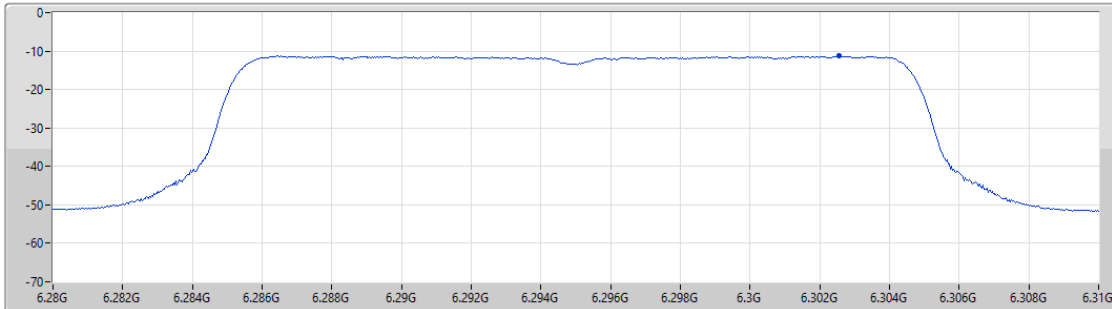
5.925-6.425GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

PSD

6295MHz

19/09/2024

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) |
| -11.28    | -11.28    | -11.28    |

## CT\_AFC\_SP\_AP\_AFCDUAU34\_FrequencyChannel\_10631\_1

Frequency (MHz): 6295

5.925-6.425GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

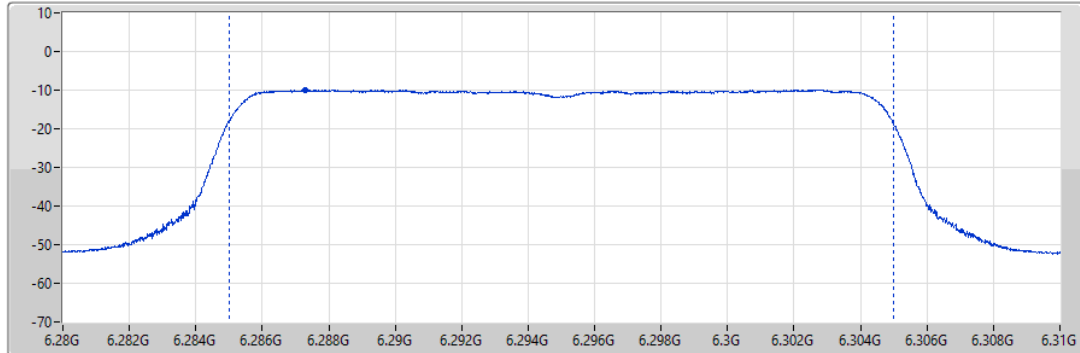
AV Power

6295MHz\_TX

19/09/2024

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

Sum=Total Power  
PX=Port X



Port 1

| Sum(dBm) | P1(dBm) |
|----------|---------|
| 2.05     | 2.05    |

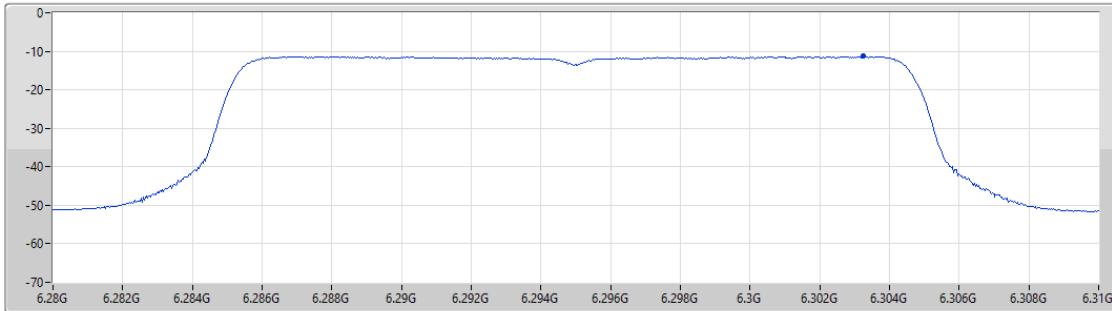
5.925-6.425GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

PSD

6295MHz

19/09/2024

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



Port 1

| Sum<br>(dBm/RBW) | PD<br>(dBm/RBW) | Port 1<br>(dBm/RBW) |
|------------------|-----------------|---------------------|
| -11.32           | -11.32          | -11.32              |

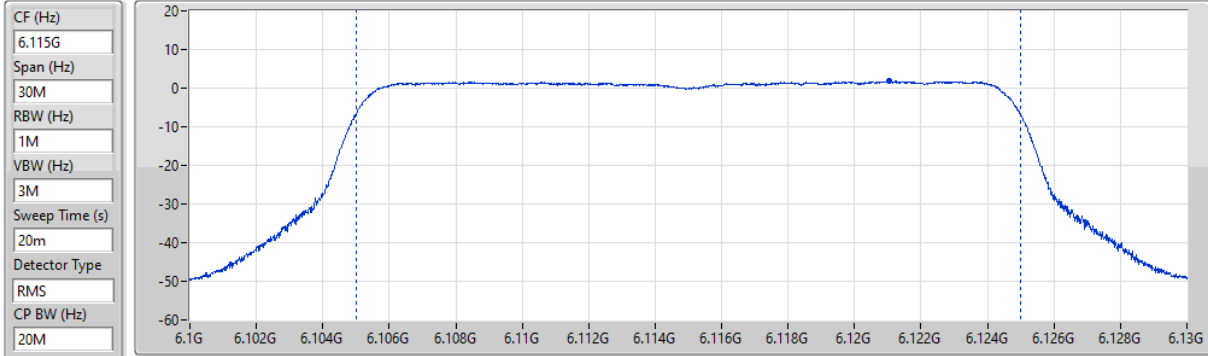
## Frequency (MHz): 6115

5.925-6.425GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

AV Power

6115MHz\_TX

19/09/2024



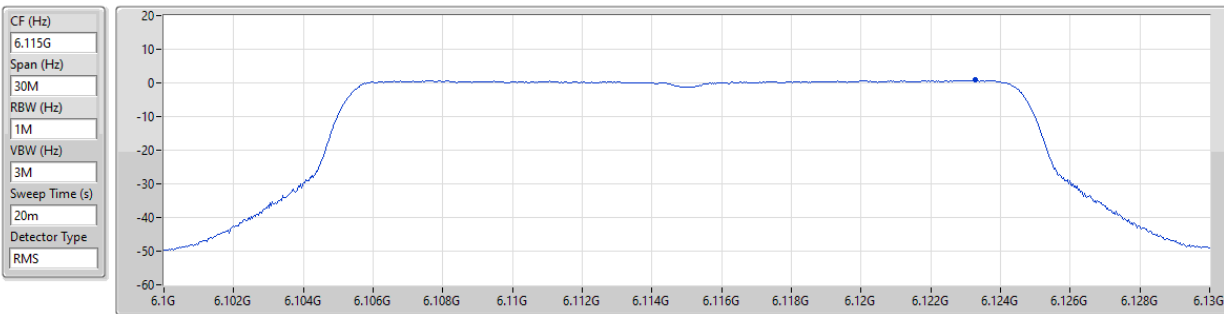
Sum=Total Power  
PX=Port X

5.925-6.425GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

PSD

6115MHz

19/09/2024




**5.925-6.425GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX**
**PSD**
**6115MHz**
19/09/2024

CF (Hz)  
6.115G

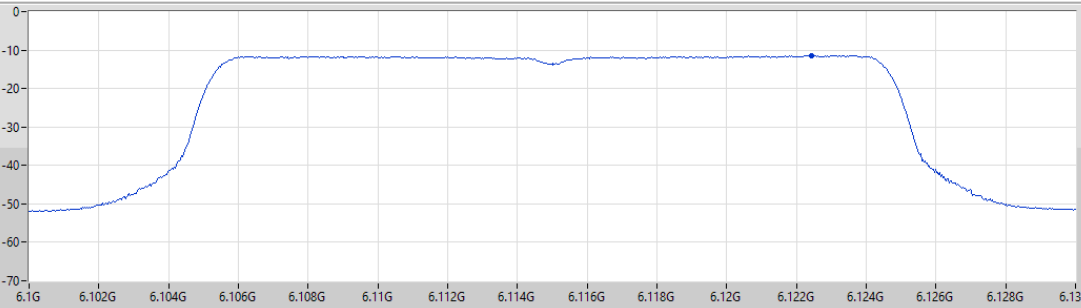
Span (Hz)  
30M

RBW (Hz)  
1M

VBW (Hz)  
3M

Sweep Time (s)  
20m

Detector Type  
RMS



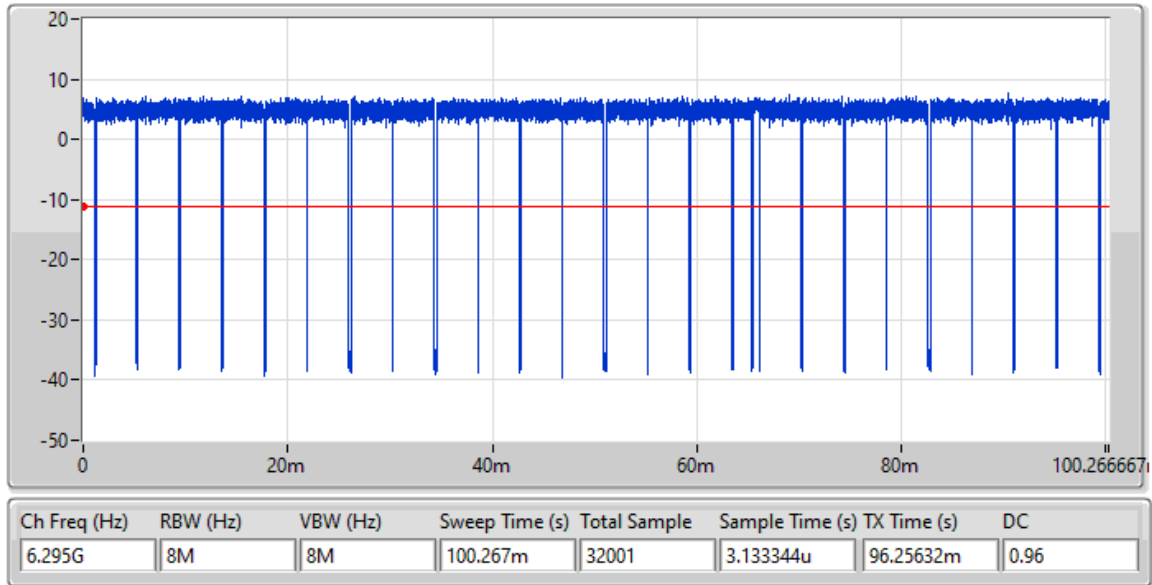
Port 1

| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -11.40    | -11.40    | -11.40    |

## Duty Cycle

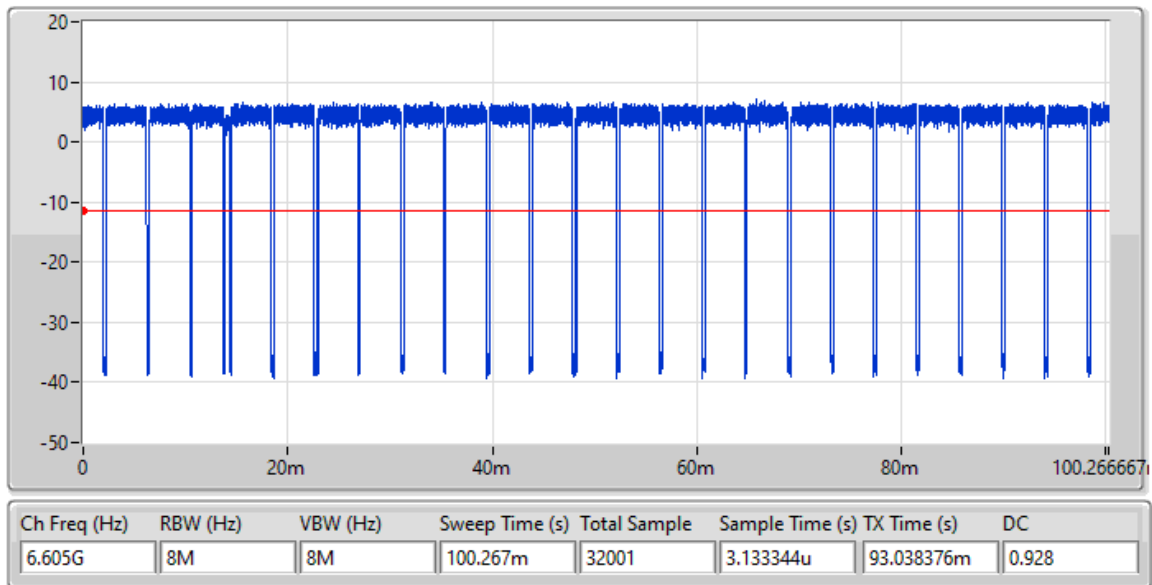
Bandwidth: 20MHz

DC;be20;BWch:20



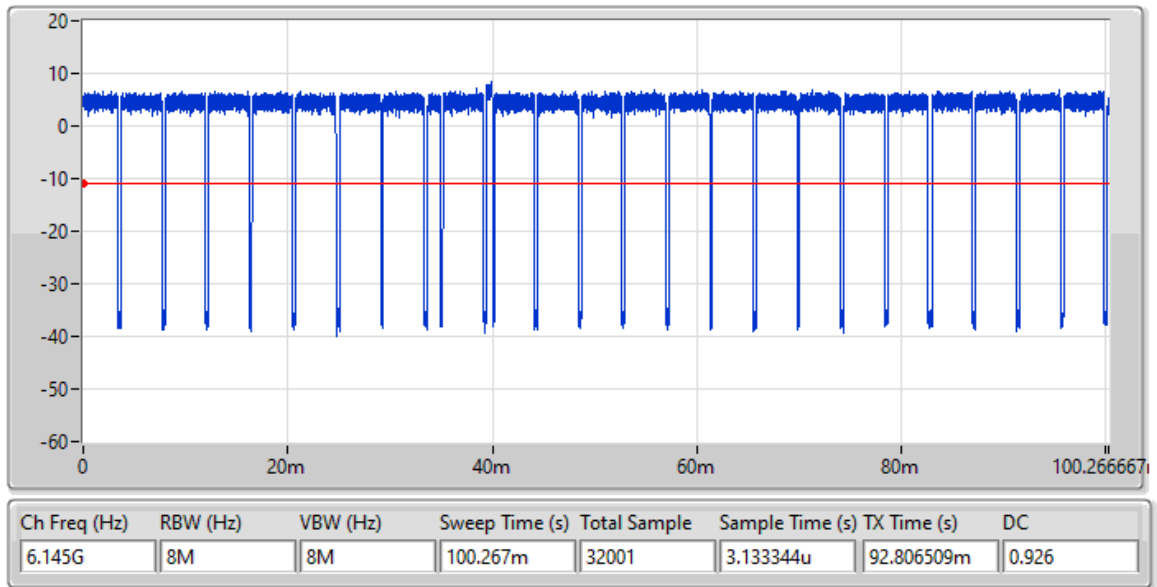
Bandwidth: 40MHz

DC;be40;BWch:40



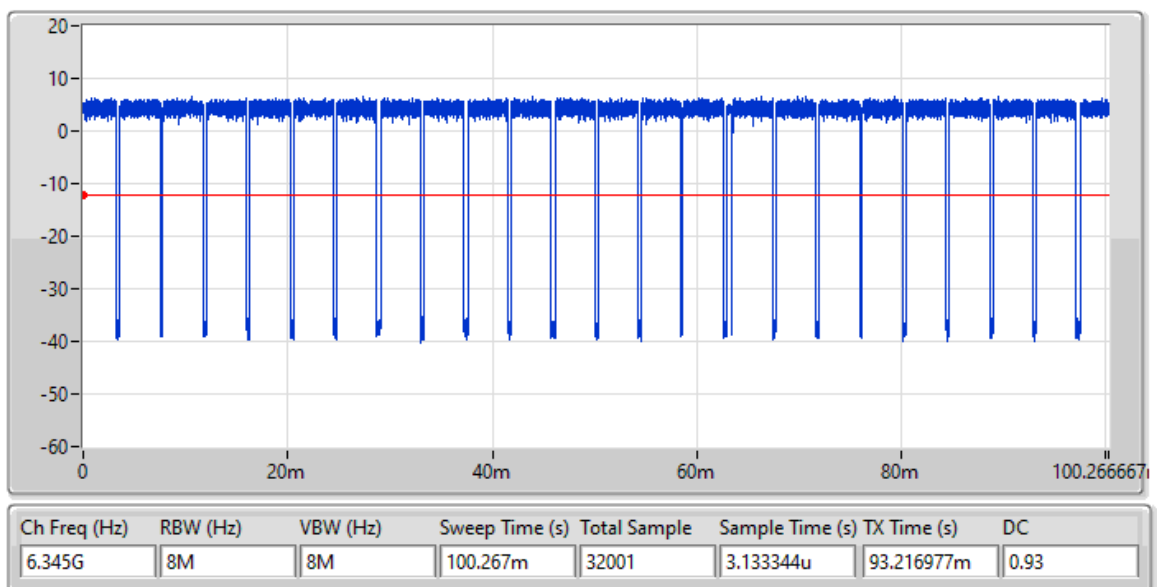
Bandwidth: 80MHz

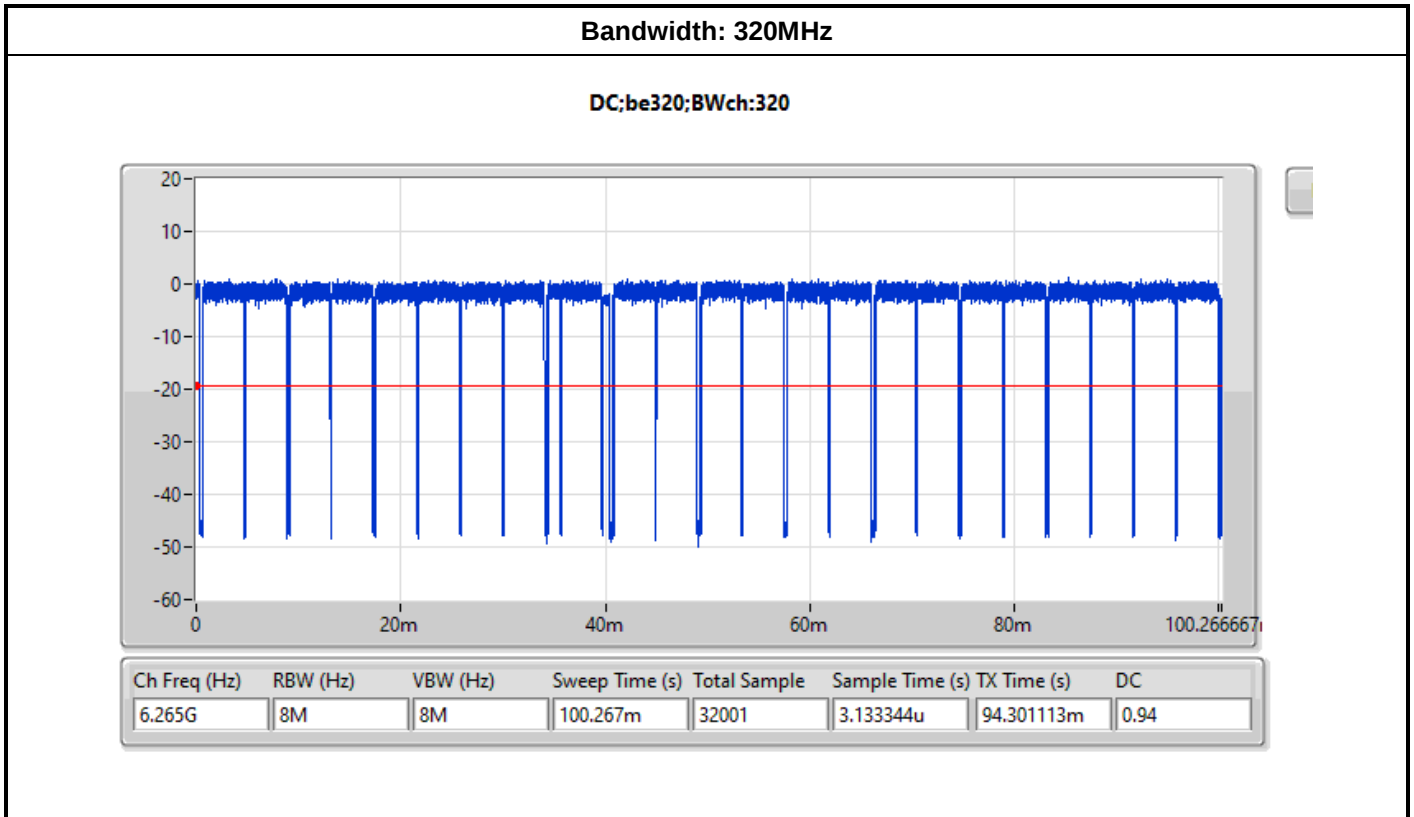
DC;be80;BWch:80



Bandwidth: 160MHz

DC;be160;BWch:160





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