

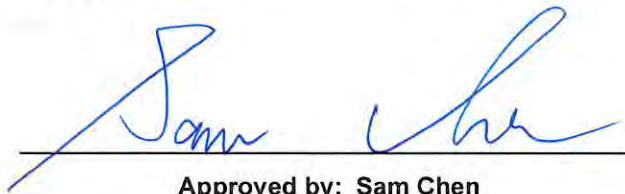


AFC DUT TEST HARNESS REPORT

FCC ID : LDKIW9167IH
Equipment : Cisco Catalyst IW9167I Heavy Duty Access Point
Brand Name : CISCO
Model Name : IW9167IH-B , IW9167IH-ROW
Applicant : Cisco Systems Inc
125 West Tasman Drive San Jose California United States 95134-1706
Manufacturer : Cisco Systems Inc
125 West Tasman Drive San Jose California United States 95134-1706
Standard : 47 CFR FCC Part 15.407

The product was received on Oct. 25, 2023, and testing was started from Dec. 04, 2023 and completed on Dec. 05, 2023. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in AFC Device (AFC DUT) Compliance Test Plan Version 1.5 and shown compliance with the applicable technical standards.

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



Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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



Table of Contents

1	General Description	6
1.1	Product Feature of Equipment Under Test	6
1.2	Antenna Information	7
1.3	Table for Multiple Listing	10
1.4	Table for Radio Function	10
1.5	Table for Permissive Change	10
1.6	Accessories	11
1.7	Support Equipment	12
1.8	Applicable Standards	12
1.9	Testing Location	12
2	Measurement Environment	13
2.1	AFCD General Capabilities Declaration	13
2.2	Test Configuration	14
3	Protocol Test Results	16
3.1	Successful Registration and Spectrum Access Request	16
3.2	Unsuccessful Spectrum Access Request	18
3.3	Successful Spectrum Access Update	19
3.4	Unsuccessful Spectrum Access Update	21
3.5	Unsuccessful Server Validation	23
4	Test Equipment and Calibration Data	24
5	Measurement Uncertainty	25

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 Ver1.0



Summary of Test Result

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

**Conformity Assessment Condition:**

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

Disclaimer:

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

Reviewed by: Sam Chen

Report Producer: Cathy Chiu



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature of Equipment Under Test	
Power Type	From power adapter or PoE
EUT Type	☒ Standard Power Access Point with Proxy ☐ Standard Power Access Point without Proxy ☐ Fixed Client with Proxy ☐ Fixed Client without Proxy
Bandwidth (MHz)	20 / 40 / 80 / 160
Condition of EUT	☐ Indoor ☒ Outdoor
Professional Installation	☒ Yes ☐ No
Firmware Version	QC_IMAGE_VERSION_STRING=WLAN.HK.2.7-04674-QCAHKSUPL_SILICON Z-1
Software Version	17.14.0.26
Hardware Version	N/A
Proxy Firmware Version	ROM: 16.12(3r)
Proxy Software Version	Cisco IOS Software [IOSXE], C9800 Software (C9800_IOSXE-K9), Experimental Version 17.14.20231005:013055
Proxy Hardware Version	N/A
Supported Software Product IDs (PID)	IW9167IH-B, IW9167IH-ROW IW9167IH-B-AP, IW9167IH-ROW-AP

Note: The above information was declared by manufacturer.



1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	WNC	95XEAK15.G66	PIFA Antenna	I-PEX	Note 1
2	WNC	95XEAK15.G67	PIFA Antenna	I-PEX	
3	WNC	95XEAK15.G68	PIFA Antenna	I-PEX	
4	WNC	95XEAK15.G69	PIFA Antenna	I-PEX	
5	WNC	95XEAK15.G70	PIFA Antenna	I-PEX	
6	WNC	95XEAK15.G71	PIFA Antenna	I-PEX	
7	WNC	95XEAK15.G72	PIFA Antenna	I-PEX	
8	WNC	95XEAK15.G73	PIFA Antenna	I-PEX	
9	WNC	95XEAK15.G74	PIFA Antenna	I-PEX	
10	WNC	95XEAK15.G75	PIFA Antenna	I-PEX	
11	WNC	95XEAK15.G76	PIFA Antenna	I-PEX	
12	WNC	95XEAK15.G77	PIFA Antenna	I-PEX	

Ant.	Port							
	Iron Radio 1		Radio 2	Scanning Radio 3			Radio 4	Radio 5
	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth	GPS
1	3	2	-	-	-	-	-	-
2	2	3	-	-	-	-	-	-
3	1	4	-	-	-	-	-	-
4	4	1	-	-	-	-	-	-
5	-	-	3	-	-	-	-	-
6	-	-	1	-	-	-	-	-
7	-	-	2	-	-	-	-	-
8	-	-	4	-	-	-	-	-
9	-	-	-	2	2	2	-	-
10	-	-	-	1	1	1	-	-
11	-	-	-	-	-	-	1	-
12	-	-	-	-	-	-	-	1

Note 1:

Ant.	Antenna Gain (dBi)						
	Iron Radio 1					Radio 2	
	WLAN 2.4GHz	WLAN 5GHz				WLAN 6GHz	
		UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 7
1	2.17	1.39	1.71	3.09	3.45	-	-
2	3.28	3.37	3.54	4.2	4.12	-	-
3	3.95	3.42	3.05	3.92	4.41	-	-
4	2.63	1.47	1.36	2.39	2.26	-	-
5	-	-	-	-	-	3.66	5.16
6	-	-	-	-	-	3.38	5.81
7	-	-	-	-	-	3.54	3.51
8	-	-	-	-	-	4.27	5.50



Ant.	Antenna Gain (dBi)								
	Scanning Radio 3							Radio 4	Radio 5
	WLAN 2.4GHz	WLAN 5GHz				WLAN 6GHz		Bluetooth	GPS
		UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 7		
9	3.06	3.81	3.38	3.2	2.54	3.22	4.97	-	-
10	2.52	3.21	2.86	3.11	3.78	3.22	3.00	-	-
11	-	-	-	-	-	-	-	3.05	-
12	-	-	-	-	-	-	-	-	2.4

Item	Directional Gain (dBi)						
	WLAN 2.4GHz	WLAN 5GHz				WLAN 6GHz	
		UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 7
2T1S	6.28	2.85	2.93	5.09	5.42	5.03	6.74
2T2S	3.95	1.47	1.71	3.09	3.45	3.54	5.81
4T1S	8.04	6.58	6.15	6.87	7.35	8.35	8.63
4T2S	5.04	3.58	3.54	4.2	4.41	5.35	5.81
4T4S	3.95	3.42	3.54	4.2	4.41	4.27	5.81

Note 2: The above information (except antenna gain and directional gain of Ant. 1~11) was declared by manufacturer.

Note 3: The antenna gain and directional gain of Ant. 1~11 are measured which follow the procedure of KDB 662911 D03.

For Iron Radio 1

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax (1TX/4RX):

Only Port 1 can be use as transmitting antenna.

Port 1~4 can be used as receiving antenna.

Port 1~4 can receive simultaneously.

For IEEE 802.11 b/g/n/VHT/ax (2TX/4RX):

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

Port 1~4 can be used as receiving antenna.

Port 1 and Port 2 can transmit simultaneously; Port 1~4 can receive simultaneously.

For IEEE 802.11 b/g/n/VHT/ax (4TX/4RX):

Port 1~4 can be used as transmitting/receiving antenna.

Port 1~4 can transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax (1TX/4RX):

Only Port 1 can be use as transmitting antenna.

Port 1~4 can be used as receiving antenna.

Port 1~4 can receive simultaneously.

For IEEE 802.11 a/n/ac/ax (2TX/4RX):

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

Port 1~4 can be used as receiving antenna.

Port 1 and Port 2 can transmit simultaneously; Port 1~4 can receive simultaneously.

**For IEEE 802.11 a/n/ac/ax (4TX/4RX):**

Port 1~4 can be used as transmitting/receiving antenna.

Port 1~4 can transmit/receive simultaneously.

For Radio 2**For 6GHz function:****For IEEE 802.11 ax (1TX/4RX):**

Only Port 1 can be use as transmitting antenna.

Port 1~4 can be used as receiving antenna.

Port 1~4 can receive simultaneously.

For IEEE 802.11 ax (2TX/4RX):

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

Port 1~4 can be used as receiving antenna.

Port 1 and Port 2 can transmit simultaneously; Port 1~4 can receive simultaneously.

For IEEE 802.11 ax (4TX/4RX):

Port 1~4 can be used as transmitting/receiving antenna.

Port 1~4 can transmit/receive simultaneously.

For Scanning Radio 3**For 2.4GHz function:****For IEEE 802.11 b/g/n/VHT/ax (1TX/2RX):**

Only Port 1 can be use as transmitting antenna.

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

Port 1 and Port 2 can receive simultaneously.

For 5GHz function:**For IEEE 802.11 a/n/ac/ax (1TX/2RX):**

Only Port 1 can be use as transmitting antenna.

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

Port 1 and Port 2 can receive simultaneously.

For 6GHz function:**For IEEE 802.11 ax (2RX):**

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

Port 1 and Port 2 can receive simultaneously.

For Radio 4**For bluetooth function (1TX/1RX):**

Only Port 1 can be used as transmitting/receiving antenna.

For Radio 5**For GPS function (1RX):**

Only Port 1 can be used as receiving antenna.



1.3 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Description
IW9167IH-B	All the models are identical, the difference model names served as marketing strategy.
IW9167IH-ROW	

Note 1: From the above models, model: IW9167IH-B 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.

1.4 Table for Radio Function

Radio (R)	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth	GPS
R1 (Iron Radio)	V (20MHz)	V (20/40/80MHz)	-	-	-
R2	-	-	V (20/40/80/160MHz)	-	-
R3 (Scanning Radio)	V (20MHz)	V (20/40/80/160MHz)	V (160MHz – RX only)	-	-
R4	-	-	-	V	-
R5	-	-	-	-	V

Note 1: The Radio 1 and Radio 3 can't operate at the same frequency.

Note 2: The above information was declared by manufacturer.

1.5 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: 322212

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

Modifications	Performance Checking
Adding 6GHz (UNII 5, UNII 7) Standard Power Access Point function for the device.	AFC DUT Test Harness



1.6 Accessories

Accessories
Waterproof cover 1*1
Waterproof cover 2*1
Waterproof cover 3*1
Wall bracket 1*1
Wall bracket 2*1
Ground cable*1: Non-shielded, 0.8m
DC cable (Yellow)*1: Non-shielded, 2.6m
DC cable connector*1
Ethernet cable*2: Shielded, 3m
Ethernet cable connector*2



1.7 Support Equipment

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	WLAN module	Intel	AX210NGW	PD9AX210NG
D	Notebook	DELL	E4300	N/A
E	Proxy	Cisco	C9800-L-C-K9	N/A
F	AC adapter	LITEON	PA-1600-1C	N/A

1.8 Applicable Standards

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

- ♦ 47 CFR FCC Part 15.407

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

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

1.9 Testing Location

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Jeff Wu	21.1~22 / 66~69	Dec. 04, 2023~ Dec. 05, 2023



2 Measurement Environment

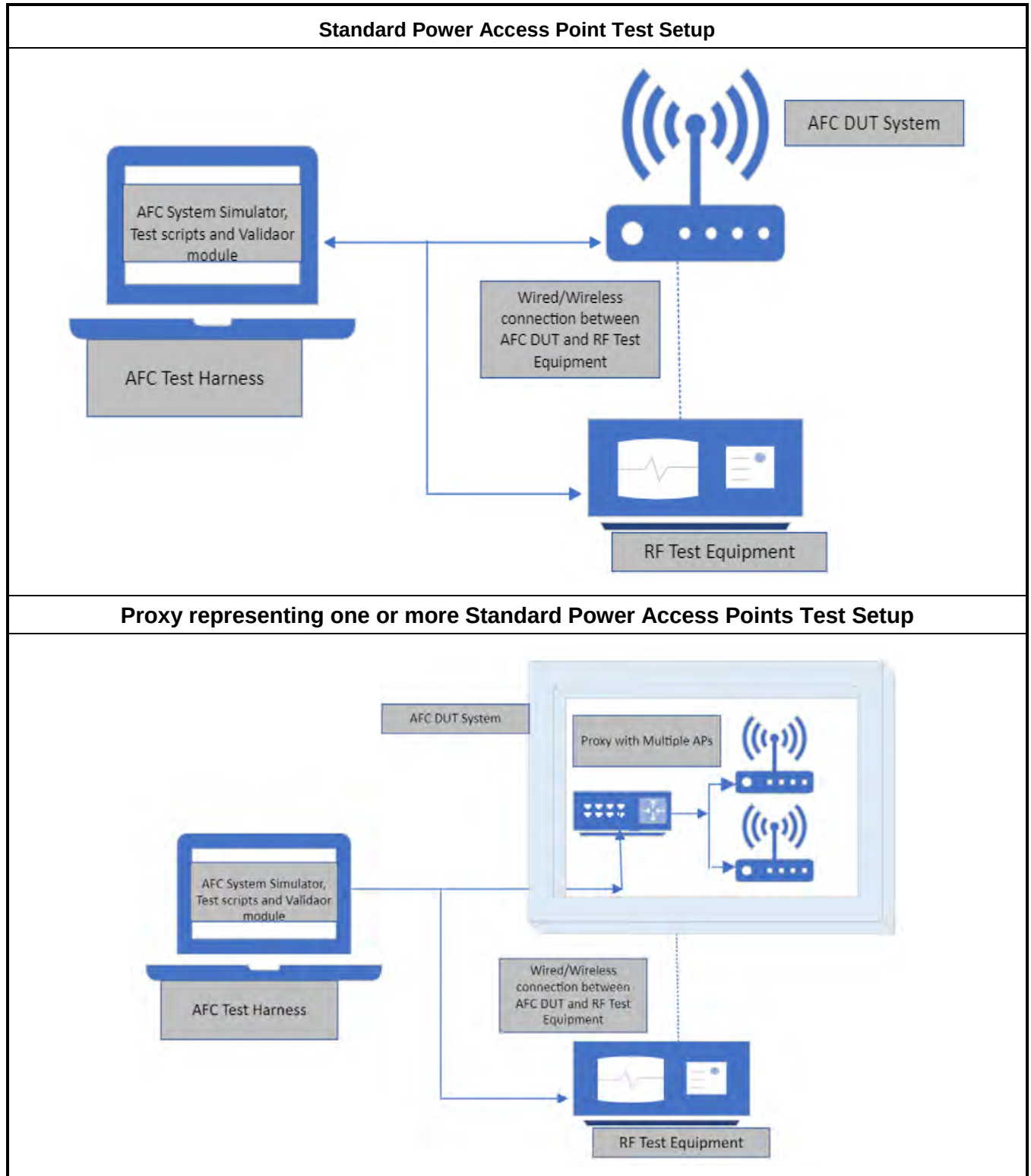
Measurement Environment Information	
AFC DUT Test Harness version	2.0.65.148

2.1 AFCD General Capabilities Declaration

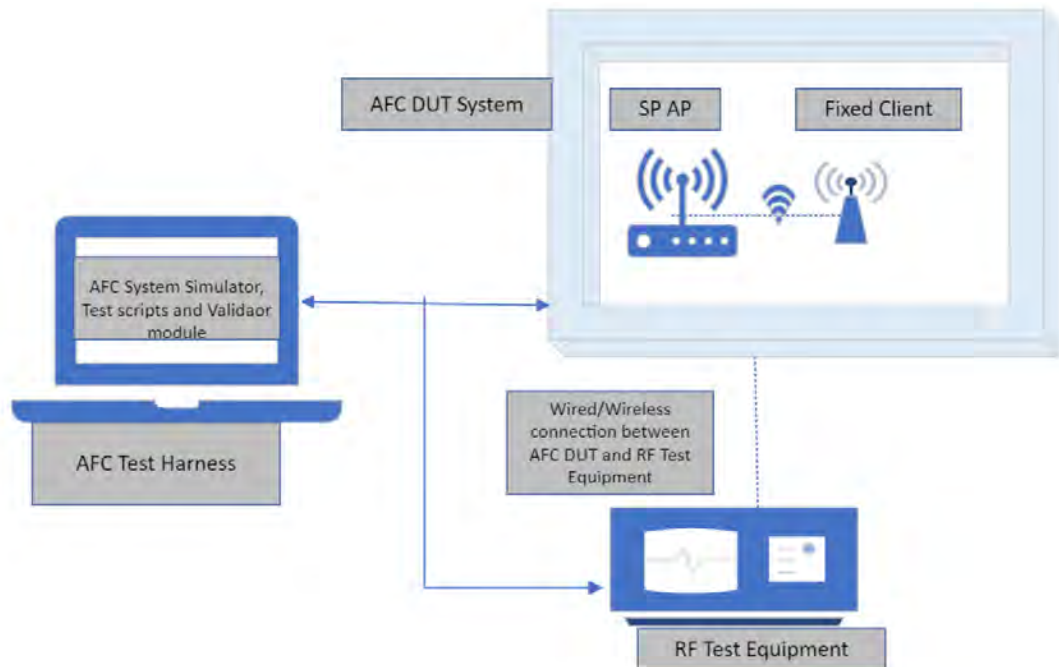
Item	Question	Vendor Response
1	AFC DUT Type	Standard Power AP with Proxy
2	Does the AFC DUT supports sending an Available Spectrum Inquiry Request based on the inquired Frequency Range field?	-
3	Does the AFC DUT supports sending an Available Spectrum Inquiry Request based on the inquired Channels fields?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

Note: The above information was declared by manufacturer.

2.2 Test Configuration



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. If needed (see Table 5 declaration), configure the AFC DUT with BSS parameters per Table 9 and a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate. Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request.
3	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquired Frequency Range and/or the inquired Channels fields*.
4	AFC DUT Test Harness validates the presence of mandatory registration information
5	AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields.
6	Throughout Step 1 to Step 4, RF Test Equipment monitors the output of the AFC DUT to confirm that the AFC DUT does not transmit: - In the band if the AFC DUT supports only SP operation Or - Above LPI limits for AFC DUT whose manufacturer attests to its compliance with rules for LPI operation Wait for 60 seconds RF Test Equipment monitors any transmission by the AFC DUT conforms to the following: - For SP only operation, AFC DUT conforms to the conditions contained in the Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies. - For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, AFC DUT transmit power in the band is less than CEILING [LPI limits, SP limits contained in the Available Spectrum Inquiry Response] and does not exceed emissions limits in adjacent frequencies.
7	Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request.
8	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*.
9	AFC DUT Test Harness validates the presence of mandatory registration information
10	AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields which are significantly different from Step 5.
11	Wait for 5 minutes (configurable) RF Test Equipment monitors any transmission by the AFC DUT conforms to the following: - For SP only operation, AFC DUT conforms to the conditions contained in the latest Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies. - For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, AFC DUT transmit power in the band is less than CEILING [LPI limits, SP limits contained in the latest Available Spectrum Inquiry Response] and does not exceed emissions limits in adjacent frequencies.
12	If the AFC DUT is Fixed Client, go to Step 13 else Stop the test
13	The AFC DUT set to Initial Pre-test State.
14	If needed (see Table 5 declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate. Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request using either In-band or Out-of-band methods.
15	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*
16	AFC DUT Test Harness validates the presence of mandatory registration information
17	AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields.



18	If AFC DUT used Out-of-band method, initiate connection procedure between AFC DUT and SP Access Point by following instructions provided by the AFC DUT Vendor
19	Wait for 60 seconds
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. If needed (see Table 5 declaration), configure the AFC DUT with BSS parameters per Table 9 and a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate. Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request.
3	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*.
4	AFC DUT Test Harness validates mandatory registration information.
5	AFC DUT Test Harness sends an Available Spectrum Inquiry Response indicating that no frequency ranges and/or channels are available.
6	Throughout Step 2 to Step 5 and subsequent to Step 5, RF Test Equipment monitors the output of the AFC DUT to confirm the following: - For SP only operation, AFC DUT does not transmit in the band. - For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, the AFC DUT does not transmit above LPI limits.
7	If the AFC DUT is Fixed Client, go to Step 8 else Stop the test
8	The AFC DUT set to Initial Pre-test State.
9	If needed (see Table 5 declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID or IC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate. Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request.
10	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*.
11	AFC DUT Test Harness validates mandatory registration information.
12	AFC DUT Test Harness sends an Available Spectrum Inquiry Response indicating that no frequency ranges and/or channels are available using either In-band or Out-of-band methods.
13	If AFC DUT used Out-of-band method, initiate connection procedure between Fixed Client and SP Access Point by following instructions provided by the AFC DUT Vendor
13	Wait for 60 seconds RF Test Equipment monitors that the AFC DUT does not transmit above maximum transmit power limits advertised by the Standard Power Access Point for Standard Client Devices in the channel.

3.2.2 Test Result

Refer as Appendix A~C



3.3 Successful Spectrum Access Update

3.3.1 Test Procedure

Step	Description
1	If the AFC DUT is Standard Power Access Point, go to Step 2, else go to Step 12
2	AFC DUT set to Initial Pre-test State. If needed (see Table 5 declaration), configure the DUT with BSS parameters per Table 9 and a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate. Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request.
3	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*.
4	AFC DUT Harness validates mandatory registration information.
5	AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields.
6	Throughout the preceding steps, RF Test Equipment monitors the output of the AFC DUT to confirm that the AFC DUT does not transmit: - In the band if the AFC DUT supports only SP operation Or - Above LPI limits for AFC DUT whose manufacturer attests to its compliance with rules for LPI operation Wait for 60 seconds RF Test Equipment monitors any transmission by the AFC DUT conforms to the following: - For SP only operation, AFC DUT conforms to the conditions contained in the Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies. - For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, AFC DUT transmit power in the band is less than CEILING [LPI limits, SP limits contained in the Available Spectrum Inquiry Response] and does not exceed emissions limits in adjacent frequencies.
7	AFC DUT is power cycled. If needed (see Table 5 declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID), new geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate.
8	Wait for 60 seconds If the AFC DUT does not send an Available Spectrum Inquiry Request, RF Test Equipment monitors the output of the AFC DUT to verify the following and STOP the test - For SP only operation, AFC DUT does not transmit in the band. - For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, the AFC DUT does not transmit above LPI limits. If the AFC DUT sends an Available Spectrum Inquiry Request, then CONTINUE with Step 9
9	AFC DUT Test Harness evaluates validity of mandatory registration information
10	AFC DUT Test Harness waits for 60 seconds before sending an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields which are significantly different from Step 5. - During the 60 seconds wait time: - For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, RF Test Equipment monitors the output of the AFC DUT to confirm that AFC DUT does not transmit above LPI threshold limits - For SP only operation, RF Test Equipment monitors the output of the AFC DUT to confirm that AFC DUT doesn't transmit in the band
11	Wait for 60 seconds RF Test Equipment monitors any transmission by the AFC DUT conforms to the following: - For SP only operation, AFC DUT conforms to the conditions contained in the Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies. - For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, AFC DUT transmit power in the band is less than CEILING [LPI limits, SP limits contained in the Available Spectrum Inquiry Response] and does not exceed emissions limits in adjacent frequencies.
12	If the AFC DUT is Fixed Client, go to Step 13 else Stop the test
13	The AFC DUT set to Initial Pre-test State.



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

3.3.2 Test Result

Refer as Appendix A~C



3.4 Unsuccessful Spectrum Access Update

3.4.1 Test Procedure

Step	Description
1	If the AFC DUT is Standard Power Access Point, go to Step 2, else go to Step 12
2	AFC DUT set to Initial Pre-test State. If needed (see Table 5 declaration), configure the AFC DUT with BSS parameters per Table 9 and a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the DUT with AFC System URL and server root certificate. Trigger the DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request using either In-band or Out-of-band methods.
3	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields.
4	AFC DUT Test Harness validates mandatory registration information
5	AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields.
6	Throughout the Step 2 to 5, RF Test Equipment monitors the output of the AFC DUT to confirm that the AFC DUT does not transmit: - In the band if the AFC DUT supports only SP operation Or - Above LPI limits for AFC DUT whose manufacturer attests to its compliance with rules for LPI operation Wait for 60 seconds RF Test Equipment monitors any transmission by the AFC DUT conforms to the following: - For SP only operation, AFC DUT conforms to the conditions contained in the Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies. For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, AFC DUT transmit power in the band is less than CEILING [LPI limits, SP limits contained in the Available Spectrum Inquiry Response] and does not exceed emissions limits in adjacent frequencies
7	AFC DUT is power cycled. If needed (see Table 5 declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID), new geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate.
8	Wait for 60 seconds - If the AFC DUT does not send an Available Spectrum Inquiry Request, RF Test Equipment monitors the output of the DUT to verify the following and STOP the test: - For SP only operation, AFC DUT does not transmit in the band, - For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, the AFC DUT does not transmit above LPI limits. - If the AFC DUT sends an Available Spectrum Inquiry Request, then CONTINUE with Step 8
9	AFC DUT Test Harness evaluates validity of mandatory registration information.
10	AFC DUT Test Harness sends an Available Spectrum Inquiry Response indicating that no frequency ranges and/or channels are available.
11	Throughout Step 7 to 10 and subsequent to Step 10 Test Equipment monitors the output of the AFC DUT to confirm that: For SP only operation, AFC DUT does not transmit in the band. For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, the AFC DUT does not transmit above LPI limits.
12	If the AFC DUT is Fixed Client, go to Step 13 else Stop the test
13	The AFC DUT set to Initial Pre-test State.
14	If needed (see Table 5 declaration), configure the DUT with a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate. Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request using either In-band or Out-of- band methods.
15	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*
16	AFC DUT Test Harness validates the presence of mandatory registration information
17	AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of available frequency



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

3.4.2 Test Result

Refer as Appendix A~C



3.5 Unsuccessful Server Validation

3.5.1 Test Procedure

Step	Description
1	The AFC DUT set to Initial Pre-test State. If needed (see Table 5 declaration), configure the AFC DUT with BSS parameters per Table 9 and a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT Test Harness with TLS configuration that is the same as the default configuration defined in Section 2.3.1 except for the following: - Run 1: A different server certificate (and private key) with SAN domain name entry "badafc.com" (i.e. that does not match AFC system URL's domain name); signed by the same root certificate as per Section 2.3.1 - Run 2: A different server certificate (and private key) where all attributes other than Public Key are the same as the server certificate per Section 2.3.1, but the certificate is signed by a different root certificate - Run 3: A different server certificate (and private key) with SAN domain name entry "wfatestorg.org" only (i.e. SAN domain name only matches suffix of AFC server's hostname); signed by the same root certificate as per Section 2.3.1 - Run 4: A different server certificate (and private key) where all attributes other than Public Key are the same as the server certificate per Section 2.3.1 signed by the same root certificate as per Section 2.3.1, but the server certificate is revoked as indicated in stapled OCSP response - Run 5: Same configuration as per Section 2.3.1, except OCSP stapling is disabled and CRL/OCSP servers are not available - Run 6: Same configuration as per Section 2.3.1, except stapled OCSP response has expired and CRL/OCSP servers are not available - Run 7: Same configuration as per Section 2.3.1, except only the TLS cipher suite "eNULL" (no encryption) is enabled - Run 8: N/A (same configuration as per Section 2.3.1) Configure the AFC DUT with the AFC System URL and the following root certificate: - Runs 1-7: Root certificate as per Section 2.3.1 - Run 8: No root certificate Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request using either In-band or Out-of-band methods.
2	AFC DUT Test Harness waits 10 seconds, and verifies no Available Spectrum Inquiry Request is sent to it.
3	Steps 1 and 2 are repeated for each of the remaining Runs

3.5.2 Test Result

Refer as Appendix A



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 29, 2023	May 28, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Power Divider	MTJ	2 Way	DF01-DV03	1GHz ~ 8GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH01-CB)
RF Power Divider	MTJ	2 Way	DF01-DV02	1GHz ~ 8GHz	Oct. 03, 2023	Oct. 02, 2024	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 -10	2GHz ~ 8GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.
NCR means Non-Calibration required.



5 Measurement Uncertainty

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

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP with Proxy
DUT Vendor Name	Cisco
DUT Product Model	IW9167IH-B , IW9167IH-ROW

Test Result

FCC Requirements	TestCaseName	Test Result
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1 (Unsuccessful server validation)	PASS
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_TLSCipherSuiteENULL_10638_1 (Unsuccessful server validation)	PASS
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_StapledOCSPRespExpired_10637_1 (Unsuccessful server validation)	PASS
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_OCSPStaplingDisabled_10636_1 (Unsuccessful server validation)	PASS
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_ServerCertRevoked_10635_1 (Unsuccessful server validation)	PASS
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_MatchSuffixSAN_10634_1 (Unsuccessful server validation)	PASS
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_DifferentRootCA_10633_1 (Unsuccessful server validation)	PASS
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_NonMatchSAN_10632_1 (Unsuccessful server validation)	PASS
15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(9)(i)	CT_AFC_SP_AP_AFCDUAU34_Channel_10624_1 (Unsuccessful spectrum access update)	PASS
15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(9)(i)	CT_AFC_SP_AP_AFCDUAU33_Channel_10623_1 (Successful spectrum access update)	PASS
15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii)	CT_AFC_SP_AP_AFCDUSA32_Channel_10622_1 (Unsuccessful registration and spectrum access request)	PASS
15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii), 15.407(l)(ii), 15.407(k)(8)(iv)	CT_AFC_SP_AP_AFCDRSA31_Channel_160MHz_10621_1 (Successful registration and spectrum access request)	PASS
15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii), 15.407(l)(ii), 15.407(k)(8)(iv)	CT_AFC_SP_AP_AFCDRSA31_Channel_80MHz_10620_1 (Successful registration and spectrum access request)	PASS
15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii), 15.407(l)(ii), 15.407(k)(8)(iv)	CT_AFC_SP_AP_AFCDRSA31_Channel_40MHz_10619_1 (Successful registration and spectrum access request)	PASS
15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii), 15.407(l)(ii), 15.407(k)(8)(iv)	CT_AFC_SP_AP_AFCDRSA31_Channel_20MHz_10618_1 (Successful registration and spectrum access request)	PASS

Test Measurements

TestCaseName: CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1 (Unsuccessful server validation)
TestResult:PASS
Band:6GHz

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

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

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

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

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

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

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

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

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

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

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

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

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

TestCaseName: CT_AFC_ServerValidation_AP_AFCDUSV35_NonMatchSAN_10632_1 (Unsuccessful server validation)
 TestResult: PASS
 Band: 6GHz

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

TestCaseName: CT_AFC_SP_AP_AFCDAU34_Channel_10624_1 (Unsuccessful spectrum access update)
 TestResult: PASS
 Band: 6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (36.0 dBm EIRP) on channel 69 bandwidth 20.	true	PASS
AFC_DUT_SP_OPERATION_NO_REQ	AFC DUT transmit with standard power in the band in no Spectrum Inquiry Request case	false	PASS

TestCaseName: CT_AFC_SP_AP_AFCDAU33_Channel_10623_1 (Successful spectrum access update)
 TestResult: PASS
 Band: 6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION_1	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (28.005911441976778 dBm EIRP) on channel 69 bandwidth 20.	true	PASS
AFC_DUT_SP_OPERATION_NO_REQ	AFC DUT transmit with standard power in the band in no Spectrum Inquiry Request case	false	PASS

TestCaseName: CT_AFC_SP_AP_AFCDAU32_Channel_10622_1 (Unsuccessful registration and spectrum access request)

TestResult:PASS
Band:6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST	AFC DUT sends an Available Spectrum 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_Channel_160MHz_10621_1 (Successful registration and spectrum access request)
TestResult:PASS
Band:6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (34.145047580929585 dBm EIRP) on channel center frequency index 79 bandwidth 160.	true	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2	AFC DUT conforms to the conditions in Spectrum Response (30.901830371599655 dBm EIRP) on channel center frequency index 15 bandwidth 160.	true	PASS

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

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (28.80357843447652 dBm EIRP) on channel center frequency index 151 bandwidth 80.	true	PASS

AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2	AFC DUT conforms to the conditions in Spectrum Response (30.84908561164268 dBm EIRP) on channel center frequency index 87 bandwidth 80.	true	PASS

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

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (31.160958008818984 dBm EIRP) on channel center frequency index 83 bandwidth 40.	true	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2	AFC DUT conforms to the conditions in Spectrum Response (31.291958825759252 dBm EIRP) on channel center frequency index 3 bandwidth 40.	true	PASS

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

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (31.86203560701807 dBm EIRP) on channel 37 bandwidth 20.	true	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2	AFC DUT conforms to the conditions in Spectrum Response	true	PASS



	(26.119072646324085 dBm EIRP) on channel 5 bandwidth 20.		
--	---	--	--

AFC capability - Inquired Channel**CT_AFC_SP_AP_AFCRSA31_Channel_20MHz_10618_1**

2023-12-04T12:53:41Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1740",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "14212795710634457347",
        "deviceDescriptor": {
          "serialNumber": "KWC27450CY0",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "LDKIW9167IH"
            }
          ]
        },
        "location": {
          "ellipse": {
            "center": {
              "longitude": -121.91889,
              "latitude": 37.416858
            },
            "majorAxis": 25,
            "minorAxis": 25,

```

```
"orientation": 0.0
},
"elevation": {
  "height": 75,
  "heightType": "AGL",
  "verticalUncertainty": 5
},
"indoorDeployment": 2
},
"inquiredChannels": [
  {
    "globalOperatingClass": 131,
    "channelCfi": [
      1,
      5,
      9,
      13,
      17,
      21,
      25,
      29,
      33,
      37,
      41,
      45,
      49,
      53,
      57,
      61,
      65,
      69,
      73,
      77,
      81,
      85,
      89,
      93,
```

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

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

```
        7,
        23,
        39,
        55,
        71,
        87,
        103,
        119,
        135,
        151,
        167,
        183,
        199,
        215
    ]
},
{
    "globalOperatingClass": 134,
    "channelCfi": [
        15,
        47,
        79,
        111,
        143,
        175,
        207
    ]
}
],
"vendorExtensions": [
    {
        "extensionId": "APInfo",
        "parameters": {
            "version": "v1",
            "PID": "IW9167IH-B",
            "countryCode": "US ",
            "VID": "01"
```

```
    }
  }
]
}
],
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnabled": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-L-C-K9",
          "SN": "FCL2649003A",
          "WLC-Version": "17.14.01"
        }
      ],
      "licenseInfo": {
        "licensingType": "air-dna-advantage",
        "count": 1,
        "lastRumAckReceived": "<none>",
        "countAPsRequiringAFC": 1
      }
    }
  }
]
}
}
```

```
##### 2023-12-04T12:53:41Z #####
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
```

```
"shortDescription": "SUCCESS"
},
"availableChannelInfo": [
  {
    "channelCfi": [
      33,
      37,
      41,
      45,
      49,
      53,
      57,
      61
    ],
    "globalOperatingClass": 131,
    "maxEirp": [
      23.796851989738304,
      31.86203560701807,
      21.885288964043383,
      26.175833312959274,
      29.667135834147217,
      30.66889746035105,
      26.852479526323418,
      27.855761877898594
    ]
  },
  {
    "channelCfi": [
      35,
      43,
      51,
      59
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
      26.807151946378116,
      24.895588920683196,
```

```
        32.67743579078703,
        29.86277948296323
    ],
    },
    {
        "channelCfi": [
            39,
            55
        ],
        "globalOperatingClass": 133,
        "maxEirp": [
            27.905888877323,
            32.87307943960304
        ]
    },
    {
        "channelCfi": [
            47
        ],
        "globalOperatingClass": 134,
        "maxEirp": [
            30.91618883396282
        ]
    }
],
"requestId": "14212795710634457347",
"availabilityExpireTime": "2023-12-05T12:53:41Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

```
##### 2023-12-04T13:07:01Z #####
{
    "headers": {
        "Host": "testserver.wfatestorg.org",
```

```
"Accept": "*/*",
"Accept-Encoding": "deflate, gzip",
"Content-Type": "application/json",
"X-Forwarded-For": "192.100.100.254",
"X-Forwarded-Host": "testserver.wfatestorg.org",
"X-Forwarded-Server": "testserver.wfatestorg.org",
"Content-Length": "1740",
"Connection": "Keep-Alive"
},
"body": {
  "version": "1.4",
  "availableSpectrumInquiryRequests": [
    {
      "requestId": "14212795710634457348",
      "deviceDescriptor": {
        "serialNumber": "KWC27450CY0",
        "certificationId": [
          {
            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
            "id": "LDKIW9167IH"
          }
        ]
      }
    }
  ],
  "location": {
    "ellipse": {
      "center": {
        "longitude": -121.91889,
        "latitude": 37.416858
      },
      "majorAxis": 25,
      "minorAxis": 25,
      "orientation": 0.0
    },
    "elevation": {
      "height": 40,
      "heightType": "AGL",
      "verticalUncertainty": 5
    }
  }
}
```

```
    },  
    "indoorDeployment": 2  
  },  
  "inquiredChannels": [  
    {  
      "globalOperatingClass": 131,  
      "channelCfi": [  
        1,  
        5,  
        9,  
        13,  
        17,  
        21,  
        25,  
        29,  
        33,  
        37,  
        41,  
        45,  
        49,  
        53,  
        57,  
        61,  
        65,  
        69,  
        73,  
        77,  
        81,  
        85,  
        89,  
        93,  
        97,  
        101,  
        105,  
        109,  
        113,  
        117,
```

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

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

```
        103,
        119,
        135,
        151,
        167,
        183,
        199,
        215
    ]
},
{
    "globalOperatingClass": 134,
    "channelCfi": [
        15,
        47,
        79,
        111,
        143,
        175,
        207
    ]
}
],
"vendorExtensions": [
    {
        "extensionId": "APInfo",
        "parameters": {
            "version": "v1",
            "PID": "IW9167IH-B",
            "countryCode": "US ",
            "VID": "01"
        }
    }
]
}
],
"vendorExtensions": [
```

```
{
  "extensionId": "XEControllerInfo",
  "parameters": {
    "version": "v1",
    "extendedDebugEnable": "False",
    "chassisInfo": [
      {
        "role": "active",
        "PID": "C9800-L-C-K9",
        "SN": "FCL2649003A",
        "WLC-Version": "17.14.01"
      }
    ],
    "licenseInfo": {
      "licensingType": "air-dna-advantage",
      "count": 1,
      "lastRumAckReceived": "<none>",
      "countAPsRequiringAFC": 1
    }
  }
}
```

2023-12-04T13:07:01Z

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

```

```
5,  
9,  
13,  
17,  
21,  
25,  
29,  
65,  
69,  
73,  
77,  
81,  
85,  
89,  
93,  
129,  
133,  
137,  
141,  
145,  
149,  
153,  
157  
],  
"globalOperatingClass": 131,  
"maxEirp": [  
    22.648566109294606,  
    26.119072646324085,  
    33.78784038236294,  
    27.03608187356037,  
    28.19800319044282,  
    24.79967613983714,  
    22.472934437025295,  
    24.904864476973067,  
    28.94365195143719,  
    33.92678384243565,  
    29.623160347508186,
```

```
30.16145162762796,  
23.796328988179106,  
22.227994245191873,  
26.24044442011607,  
29.20081359143841,  
30.317164870876212,  
21.055608970679224,  
30.32795612356131,  
35.00807894900953,  
30.560399355649608,  
33.74593637582608,  
24.00706940917972,  
21.575010231550884  
]  
,  
{  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27,  
    67,  
    75,  
    83,  
    91,  
    131,  
    139,  
    147,  
    155  
  ],  
  "globalOperatingClass": 132,  
  "maxEirp": [  
    25.65886606593442,  
    30.046381830200183,  
    27.80997609647695,  
    25.483234393665107,  
    31.953951908077002,
```

```
        32.633460304148,  
        25.238294201831685,  
        29.250744376755883,  
        24.065908927319036,  
        33.33825608020112,  
        33.57069931228942,  
        24.585310188190697  
    ]  
},  
{  
    "channelCfi": [  
        7,  
        23,  
        71,  
        87,  
        135,  
        151  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
        28.66916602257423,  
        28.49353435030492,  
        34.964251864716815,  
        28.24859415847149,  
        27.076208883958845,  
        27.595610144830506  
    ]  
},  
{  
    "channelCfi": [  
        15,  
        79,  
        143  
    ],  
    "globalOperatingClass": 134,  
    "maxEirp": [  
        31.503834306944732,
```



```
        31.258894115111131,  
        30.08650884059866  
    ]  
}  
],  
  "requestId": "14212795710634457348",  
  "availabilityExpireTime": "2023-12-05T13:07:01Z",  
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
}  
],  
  "version": "1.4"  
}
```

CT_AFC_SP_AP_AFCDSA31_Channel_40MHz_10619_1

2023-12-04T13:14:21Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1740",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "14212795710634457349",
        "deviceDescriptor": {
          "serialNumber": "KWC27450CY0",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "LDKIW9167IH"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      }
    }
  }
}
```

```
    },  
    "elevation": {  
      "height": 75,  
      "heightType": "AGL",  
      "verticalUncertainty": 5  
    },  
    "indoorDeployment": 2  
  },  
  "inquiredChannels": [  
    {  
      "globalOperatingClass": 131,  
      "channelCfi": [  
        1,  
        5,  
        9,  
        13,  
        17,  
        21,  
        25,  
        29,  
        33,  
        37,  
        41,  
        45,  
        49,  
        53,  
        57,  
        61,  
        65,  
        69,  
        73,  
        77,  
        81,  
        85,  
        89,  
        93,  
        97,
```



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

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

```
        23,
        39,
        55,
        71,
        87,
        103,
        119,
        135,
        151,
        167,
        183,
        199,
        215
    ]
},
{
    "globalOperatingClass": 134,
    "channelCfi": [
        15,
        47,
        79,
        111,
        143,
        175,
        207
    ]
}
],
"vendorExtensions": [
    {
        "extensionId": "APInfo",
        "parameters": {
            "version": "v1",
            "PID": "IW9167IH-B",
            "countryCode": "US ",
            "VID": "01"
        }
    }
]
```

```
        }
      ]
    }
  ],
  "vendorExtensions": [
    {
      "extensionId": "XEControllerInfo",
      "parameters": {
        "version": "v1",
        "extendedDebugEnable": "False",
        "chassisInfo": [
          {
            "role": "active",
            "PID": "C9800-L-C-K9",
            "SN": "FCL2649003A",
            "WLC-Version": "17.14.01"
          }
        ],
        "licenseInfo": {
          "licensingType": "air-dna-advantage",
          "count": 1,
          "lastRumAckReceived": "<none>",
          "countAPsRequiringAFC": 1
        }
      }
    }
  ]
}
```

2023-12-04T13:14:21Z

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

```
},
"availableChannelInfo": [
  {
    "channelCfi": [
      33,
      37,
      41,
      45,
      49,
      53,
      57,
      61,
      65,
      69,
      73,
      77,
      81,
      85,
      89,
      93,
      129,
      133,
      137,
      141,
      145,
      149,
      153,
      157
    ],
    "globalOperatingClass": 131,
    "maxEirp": [
      28.093209259181155,
      22.365478898366213,
      31.68024391600127,
      30.602696098517733,
      22.88480305283789,
      28.854812309868578,
```

```
28.398181121052172,
23.032987936826423,
33.94979978906641,
28.87568697621305,
23.266078712045072,
30.185947950845197,
31.1150380790452,
28.15065805217917,
32.11965374254177,
28.337483193458247,
26.382698462989218,
32.952915887992816,
27.550271325405813,
28.95564016875452,
28.72893459129034,
30.200737282250806,
30.282693986370358,
27.597601549662823
]
},
{
  "channelCfi": [
    35,
    43,
    51,
    59,
    67,
    75,
    83,
    91,
    131,
    139,
    147,
    155
  ],
  "globalOperatingClass": 132,
  "maxEirp": [
```

```
        25.375778855006025,  
        33.612996055157545,  
        25.8951030094777,  
        26.043287893466236,  
        31.885986932852862,  
        26.276378668684885,  
        31.160958008818984,  
        31.34778315009806,  
        29.39299841962903,  
        30.560571282045625,  
        31.739234547930153,  
        30.607901506302635  
    ]  
},  
{  
    "channelCfi": [  
        39,  
        55,  
        71,  
        87,  
        135,  
        151  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
        28.386078811645834,  
        28.90540296611751,  
        29.286678625324694,  
        34.17125796545879,  
        32.40329837626884,  
        33.618201462942444  
    ]  
},  
{  
    "channelCfi": [  
        47,  
        79,
```

```
143
],
"globalOperatingClass": 134,
"maxEirp": [
    31.39637876828565,
    32.29697858196451,
    35.413598332908656
]
}
],
"requestId": "14212795710634457349",
"availabilityExpireTime": "2023-12-05T13:14:21Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

```
##### 2023-12-04T13:21:49Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1740",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "14212795710634457350",
        "deviceDescriptor": {
```

```
"serialNumber": "KWC27450CY0",
"certificationId": [
  {
    "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
    "id": "LDKIW9167IH"
  }
],
"location": {
  "ellipse": {
    "center": {
      "longitude": -121.91889,
      "latitude": 37.416858
    },
    "majorAxis": 25,
    "minorAxis": 25,
    "orientation": 0.0
  },
  "elevation": {
    "height": 40,
    "heightType": "AGL",
    "verticalUncertainty": 5
  },
  "indoorDeployment": 2
},
"inquiredChannels": [
  {
    "globalOperatingClass": 131,
    "channelCfi": [
      1,
      5,
      9,
      13,
      17,
      21,
      25,
      29,
```

33,
37,
41,
45,
49,
53,
57,
61,
65,
69,
73,
77,
81,
85,
89,
93,
97,
101,
105,
109,
113,
117,
121,
125,
129,
133,
137,
141,
145,
149,
153,
157,
161,
165,
169,
173,
177,

```
        181,  
        185,  
        189,  
        193,  
        197,  
        201,  
        205,  
        209,  
        213,  
        217,  
        221,  
        225,  
        229,  
        233  
    ]  
},  
{  
    "globalOperatingClass": 132,  
    "channelCfi": [  
        3,  
        11,  
        19,  
        27,  
        35,  
        43,  
        51,  
        59,  
        67,  
        75,  
        83,  
        91,  
        99,  
        107,  
        115,  
        123,  
        131,  
        139,
```

```
        147,
        155,
        163,
        171,
        179,
        187,
        195,
        203,
        211,
        219,
        227
    ]
},
{
    "globalOperatingClass": 133,
    "channelCfi": [
        7,
        23,
        39,
        55,
        71,
        87,
        103,
        119,
        135,
        151,
        167,
        183,
        199,
        215
    ]
},
{
    "globalOperatingClass": 134,
    "channelCfi": [
        15,
        47,
```

```
        79,
        111,
        143,
        175,
        207
    ]
}
],
"vendorExtensions": [
    {
        "extensionId": "APInfo",
        "parameters": {
            "version": "v1",
            "PID": "IW9167IH-B",
            "countryCode": "US ",
            "VID": "01"
        }
    }
]
}
],
"vendorExtensions": [
    {
        "extensionId": "XEControllerInfo",
        "parameters": {
            "version": "v1",
            "extendedDebugEnable": "False",
            "chassisInfo": [
                {
                    "role": "active",
                    "PID": "C9800-L-C-K9",
                    "SN": "FCL2649003A",
                    "WLC-Version": "17.14.01"
                }
            ],
            "licenseInfo": {
                "licensingType": "air-dna-advantage",
```

```
        "count": 1,
        "lastRumAckReceived": "<none>",
        "countAPsRequiringAFC": 1
      }
    }
  ]
}

##### 2023-12-04T13:21:49Z #####
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            1,
            5,
            9,
            13,
            17,
            21,
            25,
            29
          ],
          "globalOperatingClass": 131,
          "maxEirp": [
            30.43189724308132,
            28.28165886911944,
            23.504221440687072,
            29.0079935821932,
            29.603319803925103,

```

```
        32.901846130287396,  
        30.343977279044918,  
        34.03765647312663  
    ]  
},  
{  
    "channelCfi": [  
        3,  
        11,  
        19,  
        27  
    ],  
    "globalOperatingClass": 132,  
    "maxEirp": [  
        31.291958825759252,  
        26.514521397326885,  
        32.613619760564916,  
        33.354277235684734  
    ]  
},  
{  
    "channelCfi": [  
        7,  
        23  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
        29.524821353966693,  
        35.62391971720473  
    ]  
},  
{  
    "channelCfi": [  
        15  
    ],  
    "globalOperatingClass": 134,  
    "maxEirp": [  

```



```
32.53512131060651
    ]
  }
],
  "requestId": "14212795710634457350",
  "availabilityExpireTime": "2023-12-05T13:21:49Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

CT_AFC_SP_AP_AFCRSA31_Channel_80MHz_10620_1

2023-12-04T13:31:01Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1740",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "14212795710634457351",
        "deviceDescriptor": {
          "serialNumber": "KWC27450CY0",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "LDKIW9167IH"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      }
    }
  }
}
```

```
    },
    "elevation": {
      "height": 75,
      "heightType": "AGL",
      "verticalUncertainty": 5
    },
    "indoorDeployment": 2
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131,
      "channelCfi": [
        1,
        5,
        9,
        13,
        17,
        21,
        25,
        29,
        33,
        37,
        41,
        45,
        49,
        53,
        57,
        61,
        65,
        69,
        73,
        77,
        81,
        85,
        89,
        93,
        97,
```

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

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

```
        23,
        39,
        55,
        71,
        87,
        103,
        119,
        135,
        151,
        167,
        183,
        199,
        215
    ]
},
{
    "globalOperatingClass": 134,
    "channelCfi": [
        15,
        47,
        79,
        111,
        143,
        175,
        207
    ]
}
],
"vendorExtensions": [
    {
        "extensionId": "APInfo",
        "parameters": {
            "version": "v1",
            "PID": "IW9167IH-B",
            "countryCode": "US ",
            "VID": "01"
        }
    }
]
```

```
        }
      ]
    }
  ],
  "vendorExtensions": [
    {
      "extensionId": "XEControllerInfo",
      "parameters": {
        "version": "v1",
        "extendedDebugEnable": "False",
        "chassisInfo": [
          {
            "role": "active",
            "PID": "C9800-L-C-K9",
            "SN": "FCL2649003A",
            "WLC-Version": "17.14.01"
          }
        ],
        "licenseInfo": {
          "licensingType": "air-dna-advantage",
          "count": 1,
          "lastRumAckReceived": "<none>",
          "countAPsRequiringAFC": 1
        }
      }
    }
  ]
}
```

2023-12-04T13:31:01Z

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

```
},  
"availableChannelInfo": [  
  {  
    "channelCfi": [  
      1,  
      5,  
      9,  
      13,  
      17,  
      21,  
      25,  
      29,  
      129,  
      133,  
      137,  
      141,  
      145,  
      149,  
      153,  
      157  
    ],  
    "globalOperatingClass": 131,  
    "maxEirp": [  
      21.578832471871088,  
      25.963826735295864,  
      25.047286376267913,  
      22.607394438616616,  
      34.55595248410326,  
      32.81463640543553,  
      29.517237668072106,  
      30.594893488426962,  
      25.958308531509402,  
      25.590081962907483,  
      33.010951688428634,  
      32.92881479565288,  
      24.025929000820643,  
      31.564593272689823,
```

```
        24.2536058371742,  
        22.782978521196902  
    ]  
},  
{  
    "channelCfi": [  
        3,  
        11,  
        19,  
        27,  
        131,  
        139,  
        147,  
        155  
    ],  
    "globalOperatingClass": 132,  
    "maxEirp": [  
        24.5891324285109,  
        25.61769439525643,  
        35.82493636207534,  
        32.52753762471192,  
        28.600381919547296,  
        35.939114752292696,  
        27.036228957460455,  
        25.793278477836715  
    ]  
},  
{  
    "channelCfi": [  
        7,  
        23,  
        135,  
        151  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
        27.59943238515071,
```

```
        35.537837581351724,  
        31.610681876187105,  
        28.80357843447652  
    ],  
    },  
    {  
        "channelCfi": [  
            15,  
            143  
        ],  
        "globalOperatingClass": 134,  
        "maxEirp": [  
            30.609732341790526,  
            31.81387839111634  
        ]  
    }  
],  
"requestId": "14212795710634457351",  
"availabilityExpireTime": "2023-12-05T13:31:01Z",  
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
}  
],  
"version": "1.4"  
}
```

2023-12-04T13:37:41Z

```
{  
    "headers": {  
        "Host": "testserver.wfatestorg.org",  
        "Accept": "*/*",  
        "Accept-Encoding": "deflate, gzip",  
        "Content-Type": "application/json",  
        "X-Forwarded-For": "192.100.100.254",  
        "X-Forwarded-Host": "testserver.wfatestorg.org",  
        "X-Forwarded-Server": "testserver.wfatestorg.org",  
        "Content-Length": "1740",  
        "Connection": "Keep-Alive"
```

```
{,
"body": {
  "version": "1.4",
  "availableSpectrumInquiryRequests": [
    {
      "requestId": "14212795710634457352",
      "deviceDescriptor": {
        "serialNumber": "KWC27450CY0",
        "certificationId": [
          {
            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
            "id": "LDKIW9167IH"
          }
        ]
      }
    }
  ],
  "location": {
    "ellipse": {
      "center": {
        "longitude": -121.91889,
        "latitude": 37.416858
      },
      "majorAxis": 25,
      "minorAxis": 25,
      "orientation": 0.0
    },
    "elevation": {
      "height": 40,
      "heightType": "AGL",
      "verticalUncertainty": 5
    },
    "indoorDeployment": 2
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131,
      "channelCfi": [
        1,

```

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

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

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

```
    ]
  },
  {
    "globalOperatingClass": 134,
    "channelCfi": [
      15,
      47,
      79,
      111,
      143,
      175,
      207
    ]
  }
],
"vendorExtensions": [
  {
    "extensionId": "APInfo",
    "parameters": {
      "version": "v1",
      "PID": "IW9167IH-B",
      "countryCode": "US ",
      "VID": "01"
    }
  }
]
}
],
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnable": "False",
      "chassisInfo": [
        {
          "role": "active",
```

```
        "PID": "C9800-L-C-K9",
        "SN": "FCL2649003A",
        "WLC-Version": "17.14.01"
    }
],
"licenseInfo": {
    "licensingType": "air-dna-advantage",
    "count": 1,
    "lastRumAckReceived": "<none>",
    "countAPsRequiringAFC": 1
}
}
}
}
}

##### 2023-12-04T13:37:42Z #####
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableChannelInfo": [
                {
                    "channelCfi": [
                        33,
                        37,
                        41,
                        45,
                        49,
                        53,
                        57,
                        61,
                        65,
```

```
        69,  
        73,  
        77,  
        81,  
        85,  
        89,  
        93  
    ],  
    "globalOperatingClass": 131,  
    "maxEirp": [  
        23.043660080949103,  
        34.83025225367395,  
        21.51471855613295,  
        23.52949547452497,  
        28.67952425722426,  
        29.82277748663275,  
        33.06413581818889,  
        29.137249513066013,  
        25.36374108385852,  
        23.24301960113436,  
        22.802030073080008,  
        26.4007986532985,  
        24.828485698363057,  
        28.62076393878488,  
        33.3080210913469,  
        31.719599402111736  
    ]  
},  
{  
    "channelCfi": [  
        35,  
        43,  
        51,  
        59,  
        67,  
        75,  
        83,
```

```
91
],
"globalOperatingClass": 132,
"maxEirp": [
    26.053960037588915,
    24.525018512772764,
    31.68982421386407,
    32.14754946970582,
    26.253319557774173,
    25.81233002971982,
    27.83878565500287,
    34.72989935875155
]
},
{
    "channelCfi": [
        39,
        55,
        71,
        87
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
        27.535318469412573,
        34.700124170503884,
        28.82262998635963,
        30.84908561164268
    ]
},
{
    "channelCfi": [
        47,
        79
    ],
    "globalOperatingClass": 134,
    "maxEirp": [
        30.54561842605239,
```

```
31.832929942999446
    ]
  }
],
  "requestId": "14212795710634457352",
  "availabilityExpireTime": "2023-12-05T13:37:41Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

CT_AFC_SP_AP_AFCDRSA31_Channel_160MHz_10621_1

2023-12-04T13:49:45Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1740",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "14212795710634457353",
        "deviceDescriptor": {
          "serialNumber": "KWC27450CY0",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "LDKIW9167IH"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      }
    }
  }
}
```

```
    },
    "elevation": {
      "height": 75,
      "heightType": "AGL",
      "verticalUncertainty": 5
    },
    "indoorDeployment": 2
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131,
      "channelCfi": [
        1,
        5,
        9,
        13,
        17,
        21,
        25,
        29,
        33,
        37,
        41,
        45,
        49,
        53,
        57,
        61,
        65,
        69,
        73,
        77,
        81,
        85,
        89,
        93,
        97,
```

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

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

```
        23,
        39,
        55,
        71,
        87,
        103,
        119,
        135,
        151,
        167,
        183,
        199,
        215
    ]
},
{
    "globalOperatingClass": 134,
    "channelCfi": [
        15,
        47,
        79,
        111,
        143,
        175,
        207
    ]
}
],
"vendorExtensions": [
    {
        "extensionId": "APInfo",
        "parameters": {
            "version": "v1",
            "PID": "IW9167IH-B",
            "countryCode": "US ",
            "VID": "01"
        }
    }
]
```

```
        }
      ]
    }
  ],
  "vendorExtensions": [
    {
      "extensionId": "XEControllerInfo",
      "parameters": {
        "version": "v1",
        "extendedDebugEnable": "False",
        "chassisInfo": [
          {
            "role": "active",
            "PID": "C9800-L-C-K9",
            "SN": "FCL2649003A",
            "WLC-Version": "17.14.01"
          }
        ],
        "licenseInfo": {
          "licensingType": "air-dna-advantage",
          "count": 1,
          "lastRumAckReceived": "<none>",
          "countAPsRequiringAFC": 1
        }
      }
    }
  ]
}
```

2023-12-04T13:49:46Z

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

```
},
"availableChannelInfo": [
  {
    "channelCfi": [
      65,
      69,
      73,
      77,
      81,
      85,
      89,
      93
    ],
    "globalOperatingClass": 131,
    "maxEirp": [
      29.199981371485762,
      31.580562090705875,
      27.83221563099579,
      34.06838580429695,
      31.47813280740546,
      30.86713158172911,
      25.114147711010148,
      29.809633661343508
    ]
  },
  {
    "channelCfi": [
      67,
      75,
      83,
      91
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
      32.210281328125575,
      30.842515587635603,
      33.877431538368924,
```

```
28.12444766764996
]
},
{
  "channelCfi": [
    71,
    87
  ],
  "globalOperatingClass": 133,
  "maxEirp": [
    33.85281554427541,
    31.134747624289773
  ]
},
{
  "channelCfi": [
    79
  ],
  "globalOperatingClass": 134,
  "maxEirp": [
    34.145047580929585
  ]
}
],
"requestId": "14212795710634457353",
"availabilityExpireTime": "2023-12-05T13:49:46Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

```
##### 2023-12-04T13:59:46Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",

```

```
"Accept-Encoding": "deflate, gzip",
"Content-Type": "application/json",
"X-Forwarded-For": "192.100.100.254",
"X-Forwarded-Host": "testserver.wfatestorg.org",
"X-Forwarded-Server": "testserver.wfatestorg.org",
"Content-Length": "1740",
"Connection": "Keep-Alive"
},
"body": {
  "version": "1.4",
  "availableSpectrumInquiryRequests": [
    {
      "requestId": "14212795710634457354",
      "deviceDescriptor": {
        "serialNumber": "KWC27450CY0",
        "certificationId": [
          {
            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
            "id": "LDKIW9167IH"
          }
        ]
      }
    }
  ],
  "location": {
    "ellipse": {
      "center": {
        "longitude": -121.91889,
        "latitude": 37.416858
      },
      "majorAxis": 25,
      "minorAxis": 25,
      "orientation": 0.0
    },
    "elevation": {
      "height": 40,
      "heightType": "AGL",
      "verticalUncertainty": 5
    }
  },
}
```

```
"indoorDeployment": 2
},
"inquiredChannels": [
  {
    "globalOperatingClass": 131,
    "channelCfi": [
      1,
      5,
      9,
      13,
      17,
      21,
      25,
      29,
      33,
      37,
      41,
      45,
      49,
      53,
      57,
      61,
      65,
      69,
      73,
      77,
      81,
      85,
      89,
      93,
      97,
      101,
      105,
      109,
      113,
      117,
      121,
```

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

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

```
        119,
        135,
        151,
        167,
        183,
        199,
        215
    ]
},
{
    "globalOperatingClass": 134,
    "channelCfi": [
        15,
        47,
        79,
        111,
        143,
        175,
        207
    ]
}
],
"vendorExtensions": [
    {
        "extensionId": "APInfo",
        "parameters": {
            "version": "v1",
            "PID": "IW9167IH-B",
            "countryCode": "US ",
            "VID": "01"
        }
    }
]
},
"vendorExtensions": [
    {
```

```
"extensionId": "XEControllerInfo",
"parameters": {
  "version": "v1",
  "extendedDebugEnabled": "False",
  "chassisInfo": [
    {
      "role": "active",
      "PID": "C9800-L-C-K9",
      "SN": "FCL2649003A",
      "WLC-Version": "17.14.01"
    }
  ],
  "licenseInfo": {
    "licensingType": "air-dna-advantage",
    "count": 1,
    "lastRumAckReceived": "<none>",
    "countAPsRequiringAFC": 1
  }
}
}
```

2023-12-04T13:59:46Z

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

9,
13,
17,
21,
25,
29,
33,
37,
41,
45,
49,
53,
57,
61,
129,
133,
137,
141,
145,
149,
153,
157
],
"globalOperatingClass": 131,
"maxEirp": [
21.870930501680217,
35.009824875683066,
28.295483859094706,
34.435131598010585,
25.793719152391464,
30.618944727634798,
31.12748496181709,
29.642668559781256,
22.390441727534608,
29.674757063008563,
34.38677481542306,
22.561857525486815,

```
        34.4877924918257,  
        31.94098283563885,  
        33.63908780390055,  
        27.93516209801681,  
        26.003574826493246,  
        31.34418091036426,  
        23.600679759479014,  
        29.364061430821806,  
        26.69024262229901,  
        34.69506127993286,  
        24.718203732316468,  
        30.391262677994018  
    ]  
},  
{  
    "channelCfi": [  
        3,  
        11,  
        19,  
        27,  
        35,  
        43,  
        51,  
        59,  
        131,  
        139,  
        147,  
        155  
    ],  
    "globalOperatingClass": 132,  
    "maxEirp": [  
        24.88123045832003,  
        31.305783815734518,  
        28.804019109031277,  
        32.65296851642107,  
        25.40074168417442,  
        25.572157482126627,
```

```
        34.95128279227866,  
        30.945462054656623,  
        29.01387478313306,  
        26.610979716118827,  
        29.700542578938823,  
        27.72850368895628  
    ]  
},  
{  
    "channelCfi": [  
        7,  
        23,  
        39,  
        55,  
        135,  
        151  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
        27.89153041495984,  
        31.814319065671086,  
        28.41104164081423,  
        33.95576201129643,  
        29.621279672758632,  
        30.73880364559609  
    ]  
},  
{  
    "channelCfi": [  
        15,  
        47,  
        143  
    ],  
    "globalOperatingClass": 134,  
    "maxEirp": [  
        30.901830371599655,  
        31.421341597454045,
```

```
32.63157962939845
    ]
  }
],
  "requestId": "14212795710634457354",
  "availabilityExpireTime": "2023-12-05T13:59:46Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

CT_AFC_SP_AP_AFCDUSA32_Channel_10622_1

2023-12-04T16:36:26Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1740",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "14212795710634457357",
        "deviceDescriptor": {
          "serialNumber": "KWC27450CY0",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "LDKIW9167IH"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      }
    }
  }
}
```

```
    },
    "elevation": {
      "height": 65,
      "heightType": "AGL",
      "verticalUncertainty": 5
    },
    "indoorDeployment": 2
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131,
      "channelCfi": [
        1,
        5,
        9,
        13,
        17,
        21,
        25,
        29,
        33,
        37,
        41,
        45,
        49,
        53,
        57,
        61,
        65,
        69,
        73,
        77,
        81,
        85,
        89,
        93,
        97,
```

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

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

```
        23,
        39,
        55,
        71,
        87,
        103,
        119,
        135,
        151,
        167,
        183,
        199,
        215
    ]
},
{
    "globalOperatingClass": 134,
    "channelCfi": [
        15,
        47,
        79,
        111,
        143,
        175,
        207
    ]
}
],
"vendorExtensions": [
    {
        "extensionId": "APInfo",
        "parameters": {
            "version": "v1",
            "PID": "IW9167IH-B",
            "countryCode": "US ",
            "VID": "01"
        }
    }
]
```

```
        }
      ]
    }
  ],
  "vendorExtensions": [
    {
      "extensionId": "XEControllerInfo",
      "parameters": {
        "version": "v1",
        "extendedDebugEnable": "False",
        "chassisInfo": [
          {
            "role": "active",
            "PID": "C9800-L-C-K9",
            "SN": "FCL2649003A",
            "WLC-Version": "17.14.01"
          }
        ],
        "licenseInfo": {
          "licensingType": "air-dna-advantage",
          "count": 1,
          "lastRumAckReceived": "<none>",
          "countAPsRequiringAFC": 1
        }
      }
    }
  ]
}
```

2023-12-04T16:36:26Z

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

```
    },  
    "availableChannelInfo": [],  
    "requestId": "14212795710634457357",  
    "availabilityExpireTime": "2023-12-05T16:36:26Z",  
    "rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
  }  
],  
"version": "1.4"  
}
```

CT_AFC_SP_AP_AFCDSAU33_Channel_10623_1

2023-12-04T16:38:02Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1740",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "14212795710634457358",
        "deviceDescriptor": {
          "serialNumber": "KWC27450CY0",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "LDKIW9167IH"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      }
    }
  }
}
```

```
    },
    "elevation": {
      "height": 55,
      "heightType": "AGL",
      "verticalUncertainty": 5
    },
    "indoorDeployment": 2
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131,
      "channelCfi": [
        1,
        5,
        9,
        13,
        17,
        21,
        25,
        29,
        33,
        37,
        41,
        45,
        49,
        53,
        57,
        61,
        65,
        69,
        73,
        77,
        81,
        85,
        89,
        93,
        97,
```

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

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

```
        23,
        39,
        55,
        71,
        87,
        103,
        119,
        135,
        151,
        167,
        183,
        199,
        215
    ]
},
{
    "globalOperatingClass": 134,
    "channelCfi": [
        15,
        47,
        79,
        111,
        143,
        175,
        207
    ]
}
],
"vendorExtensions": [
    {
        "extensionId": "APInfo",
        "parameters": {
            "version": "v1",
            "PID": "IW9167IH-B",
            "countryCode": "US ",
            "VID": "01"
        }
    }
]
```

```
        }
      ]
    }
  ],
  "vendorExtensions": [
    {
      "extensionId": "XEControllerInfo",
      "parameters": {
        "version": "v1",
        "extendedDebugEnable": "False",
        "chassisInfo": [
          {
            "role": "active",
            "PID": "C9800-L-C-K9",
            "SN": "FCL2649003A",
            "WLC-Version": "17.14.01"
          }
        ],
        "licenseInfo": {
          "licensingType": "air-dna-advantage",
          "count": 1,
          "lastRumAckReceived": "<none>",
          "countAPsRequiringAFC": 1
        }
      }
    }
  ]
}
```

2023-12-04T16:38:02Z

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

```
},
"availableChannelInfo": [
  {
    "channelCfi": [
      1,
      5,
      9,
      13,
      17,
      21,
      25,
      29,
      65,
      69,
      73,
      77,
      81,
      85,
      89,
      93,
      129,
      133,
      137,
      141,
      145,
      149,
      153,
      157
    ],
    "globalOperatingClass": 131,
    "maxEirp": [
      27.019172119027687,
      22.126335276940203,
      26.971539512150393,
      21.78243578044036,
      26.021956703410527,
      34.77166305593914,
```

```
29.944927112088543,
33.59883563786133,
23.63667921064194,
28.005911441976778,
27.086302882323942,
22.326465646945778,
25.850801252219096,
34.25654160493228,
27.696973212981003,
29.033369723754134,
21.28363853296351,
31.231992206042428,
29.53122431932372,
24.894889572745278,
27.845976959960964,
29.549396978729128,
31.702453139232027,
32.776913919747656
]
},
{
  "channelCfi": [
    3,
    11,
    19,
    27,
    67,
    75,
    83,
    91,
    131,
    139,
    147,
    155
  ],
  "globalOperatingClass": 132,
  "maxEirp": [
```

```
        25.136635233580016,  
        24.79273573708017,  
        29.03225666005034,  
        32.955227068728355,  
        26.646979167281753,  
        25.33676560358559,  
        28.86110120885891,  
        30.707273169620816,  
        24.293938489603324,  
        27.90518952938509,  
        30.856276916600777,  
        34.71275309587184  
    ]  
},  
{  
    "channelCfi": [  
        7,  
        23,  
        71,  
        87,  
        135,  
        151  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
        27.803035693719984,  
        32.04255661669015,  
        28.347065560225396,  
        31.871401165498717,  
        27.304238446243133,  
        33.86657687324058  
    ]  
},  
{  
    "channelCfi": [  
        15,  
        79,
```

```
        143
      ],
      "globalOperatingClass": 134,
      "maxEirp": [
        30.813335650359797,
        31.357365516865215,
        30.31453840288295
      ]
    }
  ],
  "requestId": "14212795710634457358",
  "availabilityExpireTime": "2023-12-05T16:38:02Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
},
"version": "1.4"
}
```

CT_AFC_SP_AP_AFCDUAU34_Channel_10624_1

2023-12-04T16:48:34Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1740",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "14212795710634457359",
        "deviceDescriptor": {
          "serialNumber": "KWC27450CY0",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "LDKIW9167IH"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      }
    }
  }
}
```

```
    },
    "elevation": {
      "height": 35,
      "heightType": "AGL",
      "verticalUncertainty": 5
    },
    "indoorDeployment": 2
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131,
      "channelCfi": [
        1,
        5,
        9,
        13,
        17,
        21,
        25,
        29,
        33,
        37,
        41,
        45,
        49,
        53,
        57,
        61,
        65,
        69,
        73,
        77,
        81,
        85,
        89,
        93,
        97,
```

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

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

```
        23,
        39,
        55,
        71,
        87,
        103,
        119,
        135,
        151,
        167,
        183,
        199,
        215
    ]
},
{
    "globalOperatingClass": 134,
    "channelCfi": [
        15,
        47,
        79,
        111,
        143,
        175,
        207
    ]
}
],
"vendorExtensions": [
    {
        "extensionId": "APInfo",
        "parameters": {
            "version": "v1",
            "PID": "IW9167IH-B",
            "countryCode": "US ",
            "VID": "01"
        }
    }
]
```

```
        }
      ]
    }
  ],
  "vendorExtensions": [
    {
      "extensionId": "XEControllerInfo",
      "parameters": {
        "version": "v1",
        "extendedDebugEnable": "False",
        "chassisInfo": [
          {
            "role": "active",
            "PID": "C9800-L-C-K9",
            "SN": "FCL2649003A",
            "WLC-Version": "17.14.01"
          }
        ],
        "licenseInfo": {
          "licensingType": "air-dna-advantage",
          "count": 1,
          "lastRumAckReceived": "<none>",
          "countAPsRequiringAFC": 1
        }
      }
    }
  ]
}
```

2023-12-04T16:48:34Z

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

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

[illegible]

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

```
        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,  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0  
    ]  
},  
{  
    "channelCfi": [  
        7,  
        23,  
        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,
        36.0,
        36.0
      ]
    },
    {
      "channelCfi": [
        15,
        47,
        79,
        143
      ],
      "globalOperatingClass": 134,
      "maxEirp": [
        36.0,
        36.0,
        36.0,
        36.0
      ]
    }
  ],
  "requestId": "14212795710634457359",
  "availabilityExpireTime": "2023-12-05T16:48:34Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
```



}

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

Freq. (MHz)	Mode (LPI or SP)	Bandwidth (MHz)	Antenna Gain (dBi)	Power (dBm)	EIRP (dBm)	AFC Response Limit (dBm)	Result	PSD (dBm/MHz)	EIRP PSD (dBm/MHz)	AFC Response Limit (dBm/MHz)	Result
6135	SP	20	4.27	20.73	25.00	31.86	Pass	7.26	11.53	-	N/A
5975	SP	20	4.27	19.04	23.31	26.11	Pass	5.93	10.20	-	N/A
6365	SP	40	4.27	19.94	24.21	31.16	Pass	3.74	8.01	-	N/A
5965	SP	40	4.27	19.86	24.13	31.29	Pass	3.49	7.76	-	N/A
6705	SP	80	5.81	20.04	25.85	28.80	Pass	0.91	6.72	-	N/A
6385	SP	80	4.27	19.48	23.75	30.84	Pass	0.81	5.08	-	N/A
6345	SP	160	4.27	19.84	24.11	34.14	Pass	-1.12	3.15	-	N/A
6025	SP	160	4.27	20.24	24.51	30.90	Pass	-2.04	2.23	-	N/A

AFCD.SAU: Successful spectrum access update

Freq. (MHz)	Mode (LPI or SP)	Bandwidth (MHz)	Antenna Gain (dBi)	Power (dBm)	EIRP (dBm)	AFC Response Limit (dBm)	Result	PSD (dBm/MHz)	EIRP PSD (dBm/MHz)	AFC Response Limit (dBm/MHz)	Result
6295	SP	20	4.27	21.28	25.55	28.00	Pass	7.92	12.19	-	N/A

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	SP	20	4.27	21.22	25.49	36.00	Pass	7.82	12.09	-	N/A

AFC capability - Inquired Channel

CT_AFC_SP_AP_AFCRSA31_Channel_20MHz_10618_1

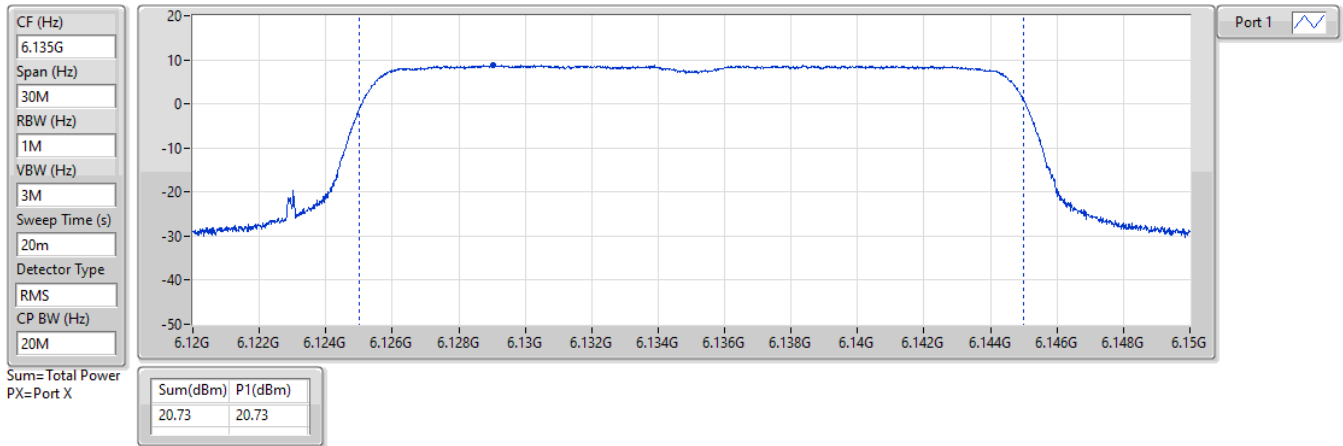
Frequency (MHz): 6135

5.925-6.425GHz_802.11ax HEW20_1TX

AV Power

6135MHz_TX

04/12/2023

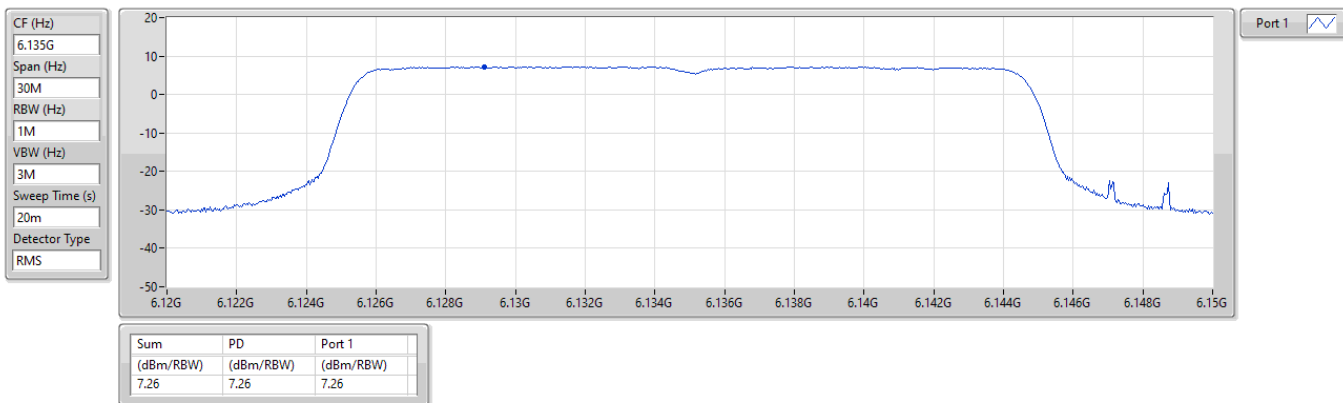


5.925-6.425GHz_802.11ax HEW20_1TX

PSD

6135MHz

04/12/2023



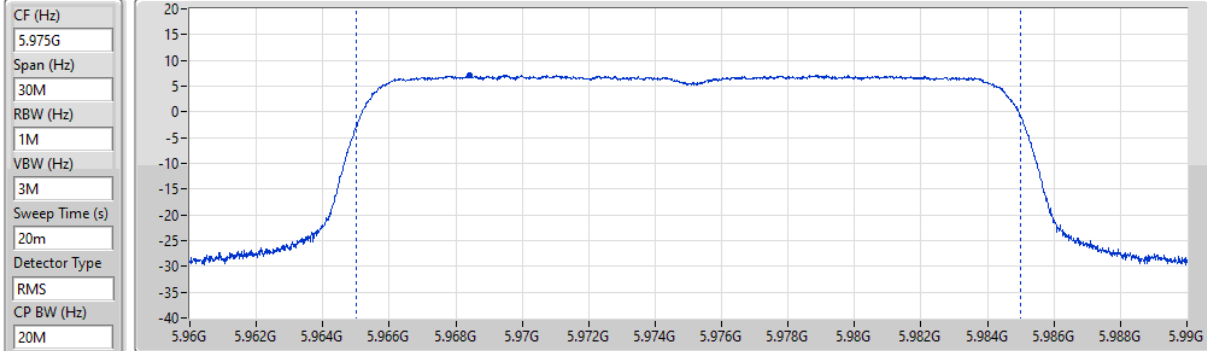
Frequency (MHz): 5975

5.925-6.425GHz_802.11ax HEW20_1TX

AV Power

5975MHz_TX

04/12/2023

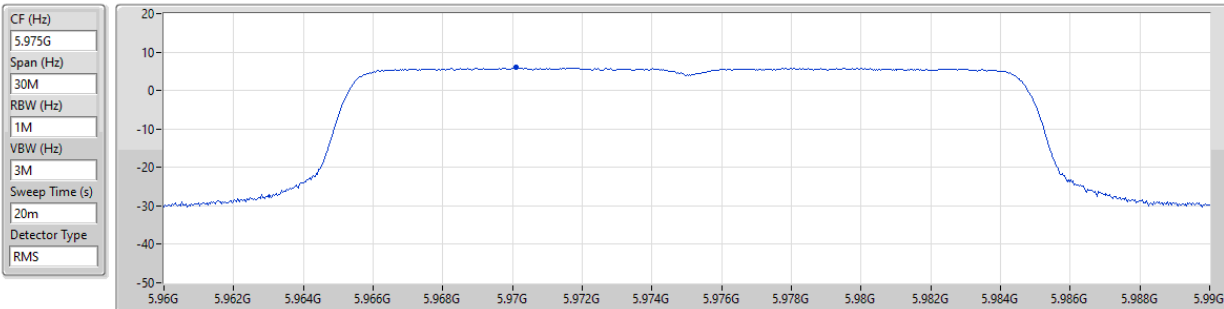


5.925-6.425GHz_802.11ax HEW20_1TX

PSD

5975MHz

04/12/2023



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.93	5.93	5.93

CT_AFC_SP_AP_AFCRSA31_Channel_40MHz_10619_1

Frequency (MHz): 6365

5.925-6.425GHz_802.11ax HEW40_1TX

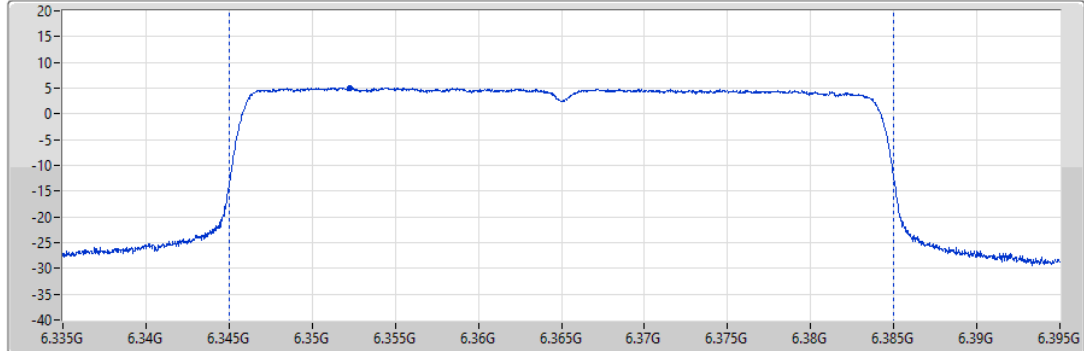
AV Power

6365MHz_TX

04/12/2023

CF (Hz)
6.365G
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)
19.94	19.94

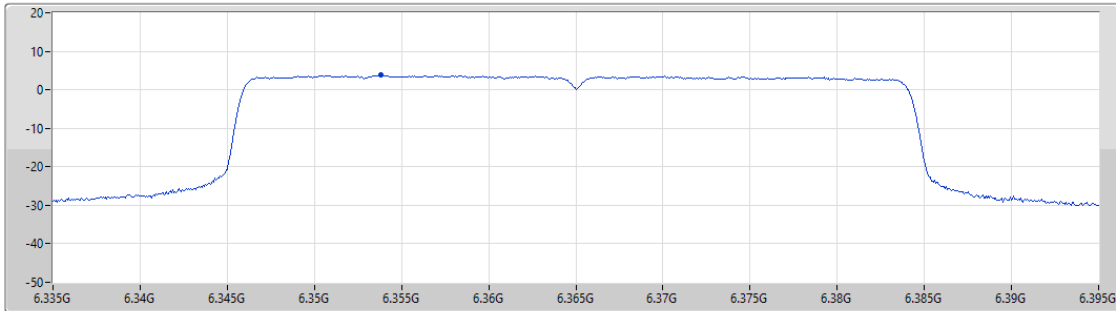
5.925-6.425GHz_802.11ax HEW40_1TX

PSD

6365MHz

04/12/2023

CF (Hz)
6.365G
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)
3.74	3.74	3.74

Frequency (MHz): 5965

5.925-6.425GHz_802.11ax HEW40_1TX

AV Power

5965MHz_TX

04/12/2023

CF (Hz)
5.965G

Span (Hz)
60M

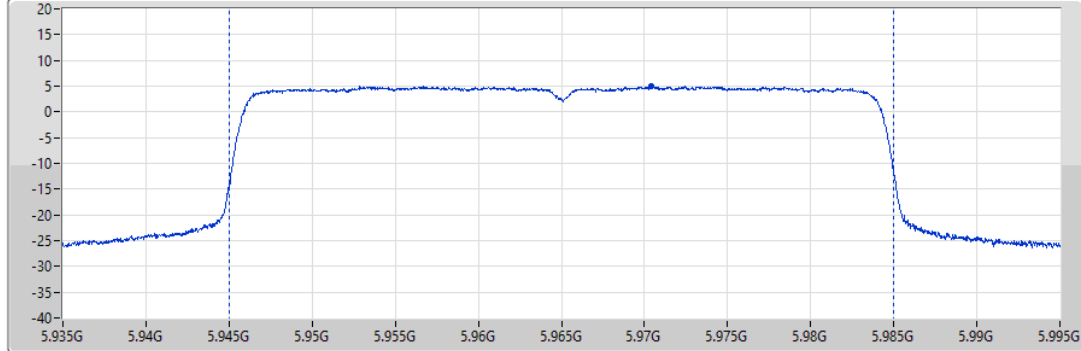
RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
20m

Detector Type
RMS

CP BW (Hz)
40M



Port 1

Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)
19.86	19.86

5.925-6.425GHz_802.11ax HEW40_1TX

PSD

5965MHz

04/12/2023

CF (Hz)
5.965G

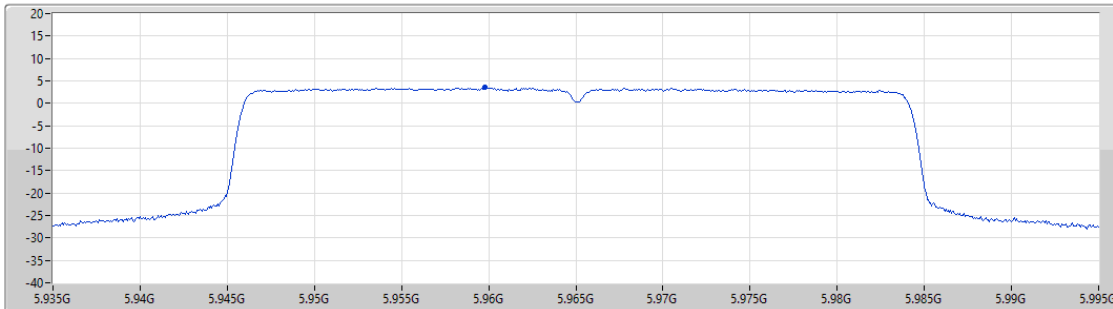
Span (Hz)
60M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
20m

Detector Type
RMS



Port 1

Sum (dBm/RBW)	PD (dBm/RBW)	Port 1 (dBm/RBW)
3.49	3.49	3.49

CT_AFC_SP_AP_AFCRSA31_Channel_80MHz_10620_1

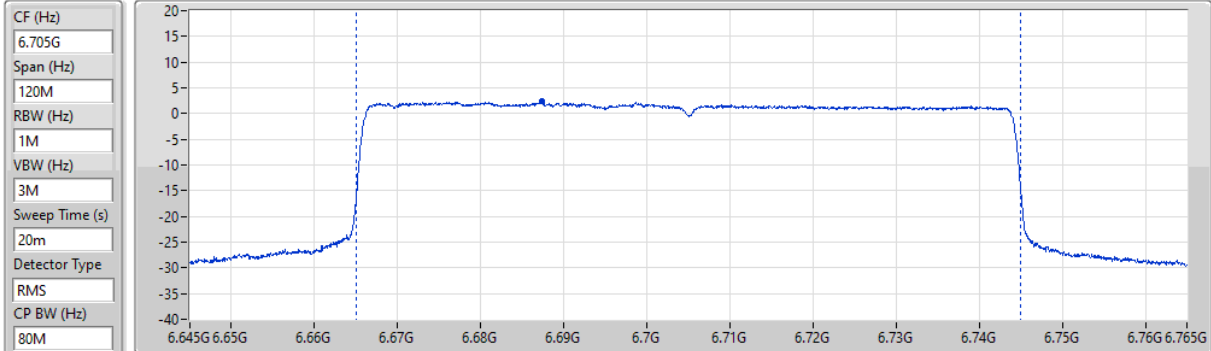
Frequency (MHz): 6705

6.525-6.875GHz_802.11ax HEW80_1TX

AV Power

6705MHz_TX

04/12/2023



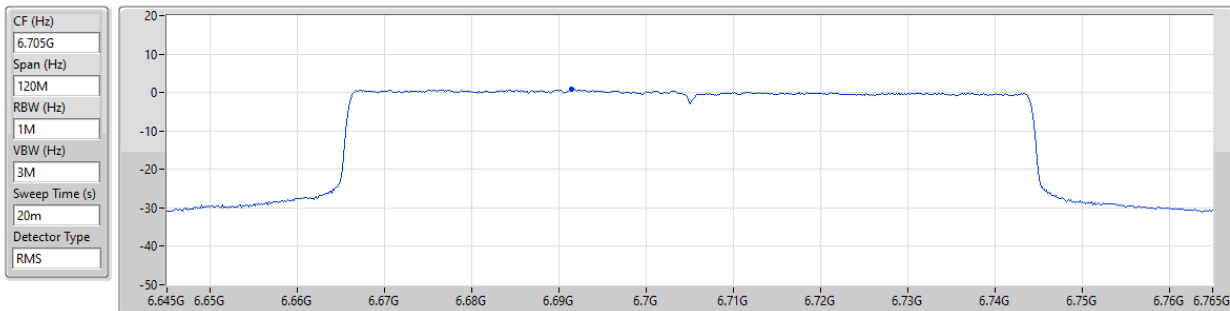
Sum=Total Power
 PX=Port X

6.525-6.875GHz_802.11ax HEW80_1TX

PSD

6705MHz

04/12/2023



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.91	0.91	0.91

Frequency (MHz): 6385

5.925-6.425GHz_802.11ax HEW80_1TX

AV Power

6385MHz_TX

04/12/2023

CF (Hz)
6.385G

Span (Hz)
120M

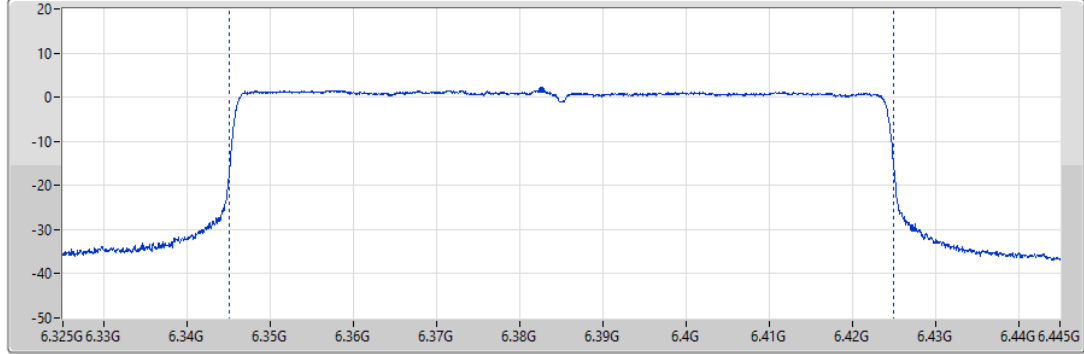
RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
20m

Detector Type
RMS

CP BW (Hz)
80M



Port 1

Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)
19.48	19.48

5.925-6.425GHz_802.11ax HEW80_1TX

PSD

6385MHz

04/12/2023

CF (Hz)
6.385G

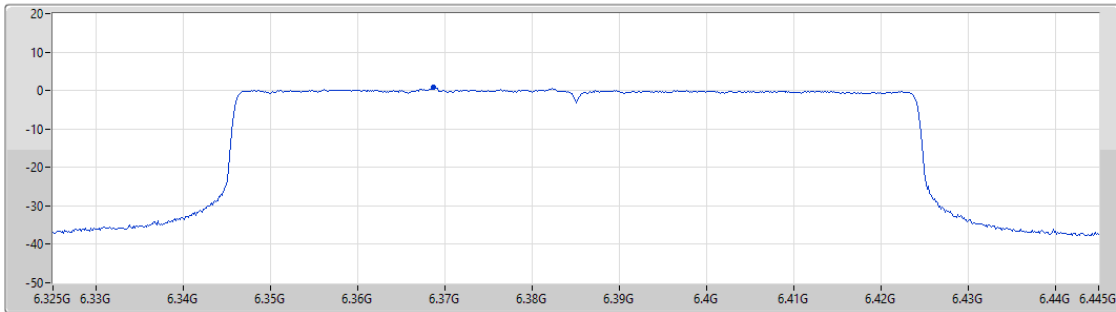
Span (Hz)
120M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
20m

Detector Type
RMS



Port 1

Sum (dBm/RBW)	PD (dBm/RBW)	Port 1 (dBm/RBW)
0.81	0.81	0.81

CT_AFC_SP_AP_AFCDRSA31_Channel_160MHz_10621_1

Frequency (MHz): 6345

5.925-6.425GHz_802.11ax HEW160_1TX

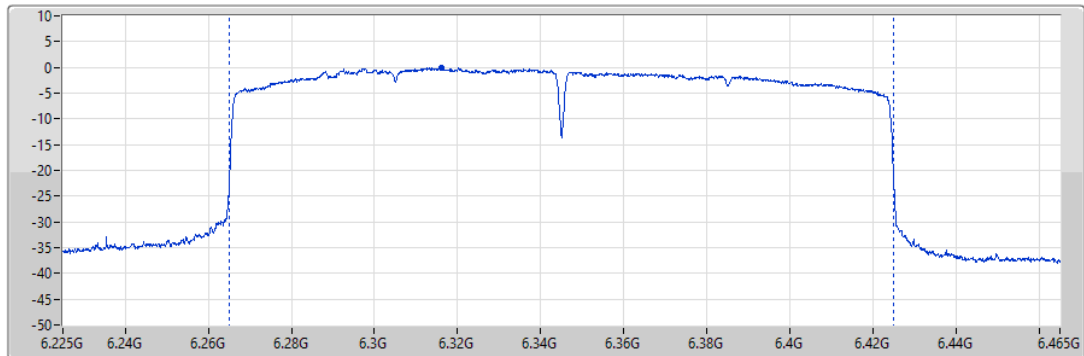
AV Power

6345MHz_TX

04/12/2023

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

Sum=Total Power
PX=Port X



Port 1

Sum(dBm)	P1(dBm)
19.84	19.84

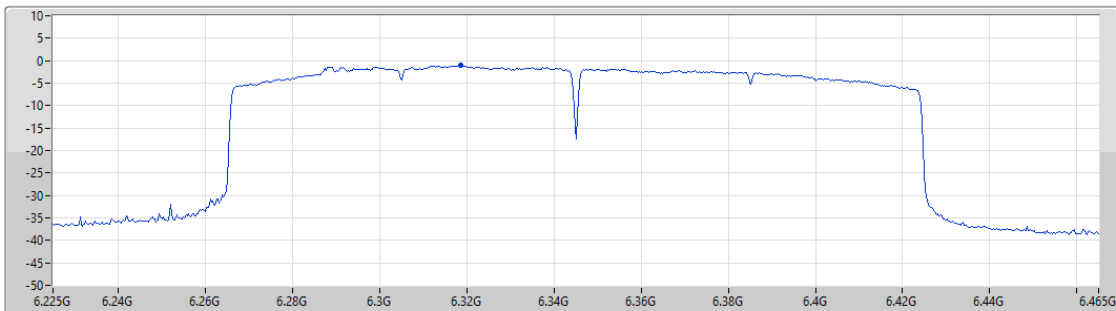
5.925-6.425GHz_802.11ax HEW160_1TX

PSD

6345MHz

04/12/2023

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



Port 1

Sum (dBm/100Hz)	PD (dBm/100Hz)	Port 1 (dBm/100Hz)
-1.12	-1.12	-1.12

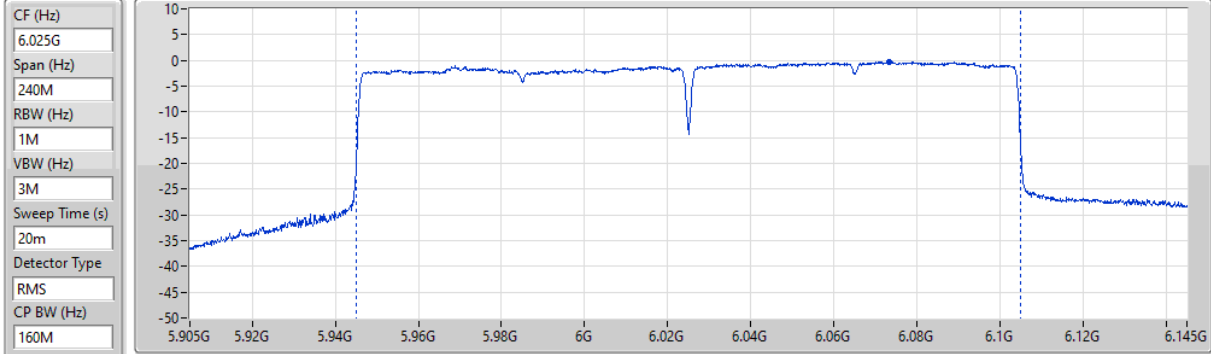
Frequency (MHz): 6025

5.925-6.425GHz_802.11ax HEW160_1TX

AV Power

6025MHz_TX

04/12/2023



Sum=Total Power
PX=Port X

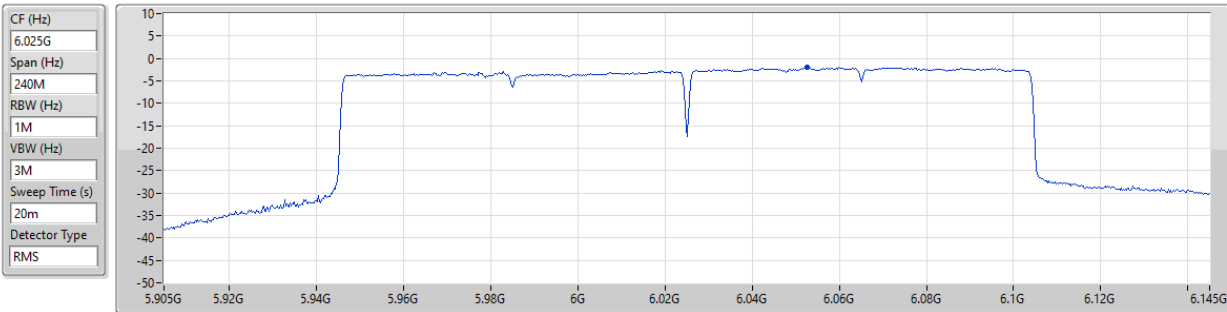
Sum(dBm)	P1(dBm)
20.24	20.24

5.925-6.425GHz_802.11ax HEW160_1TX

PSD

6025MHz

04/12/2023



Sum (dBm/RBW)	PD (dBm/RBW)	Port 1 (dBm/RBW)
-2.04	-2.04	-2.04

CT_AFC_SP_AP_AFCDSAU33_Channel_10623_1

Bandwidth: 20MHz

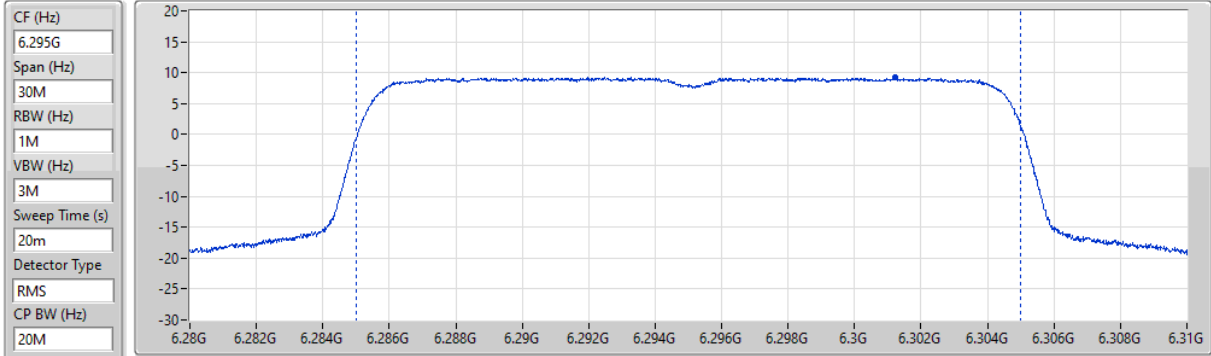
Frequency (MHz): 6295

5.925-6.425GHz_802.11ax HEW20_1TX

AV Power

6295MHz_TX

04/12/2023



Sum= Total Power
PX=Port X

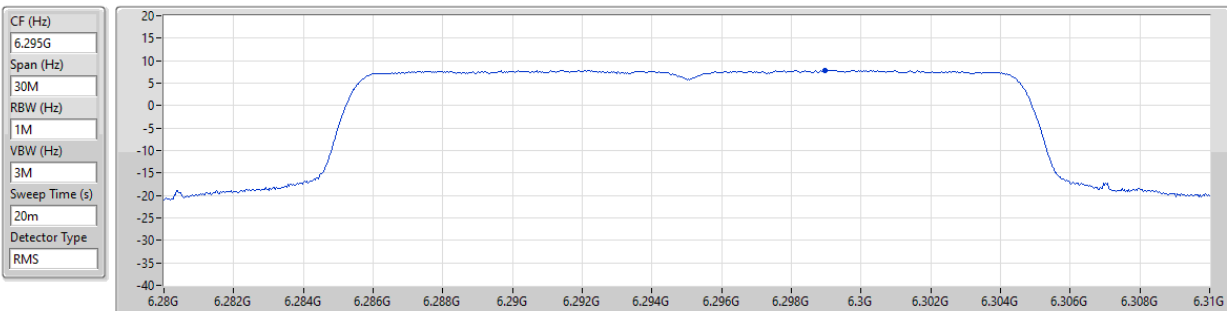
Sum(dBm)	P1(dBm)
21.28	21.28

5.925-6.425GHz_802.11ax HEW20_1TX

PSD

6295MHz

04/12/2023



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.92	7.92	7.92

CT_AFC_SP_AP_AFCDUAU34_Channel_10624_1

Bandwidth: 20MHz

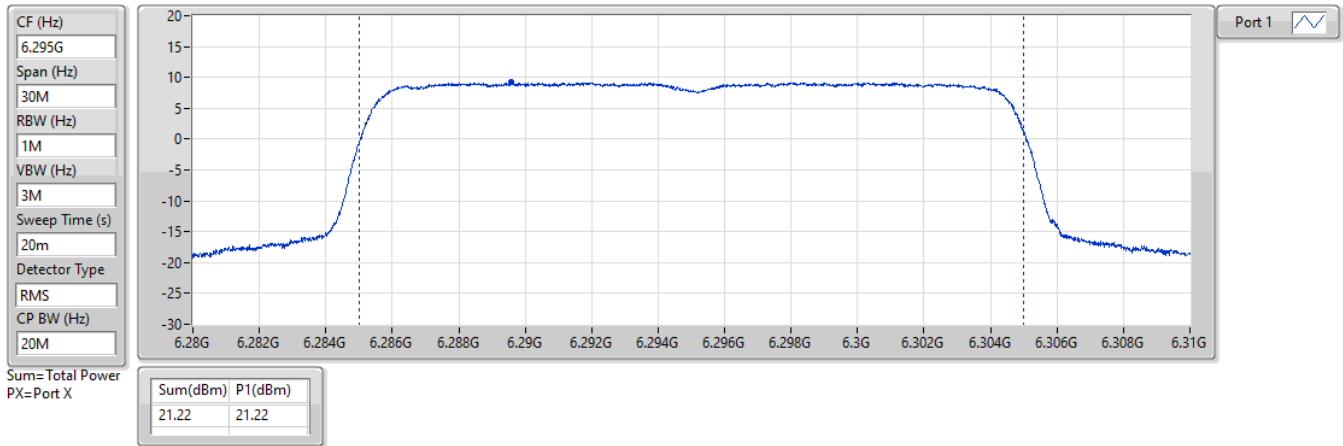
Frequency (MHz): 6295

5.925-6.425GHz_802.11ax HEW20_1TX

AV Power

6295MHz_TX

04/12/2023

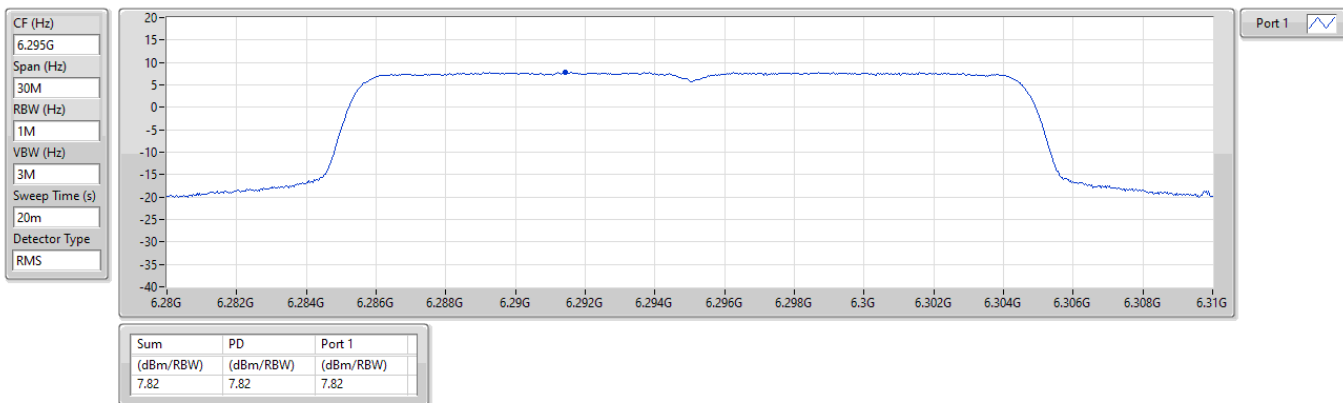


5.925-6.425GHz_802.11ax HEW20_1TX

PSD

6295MHz

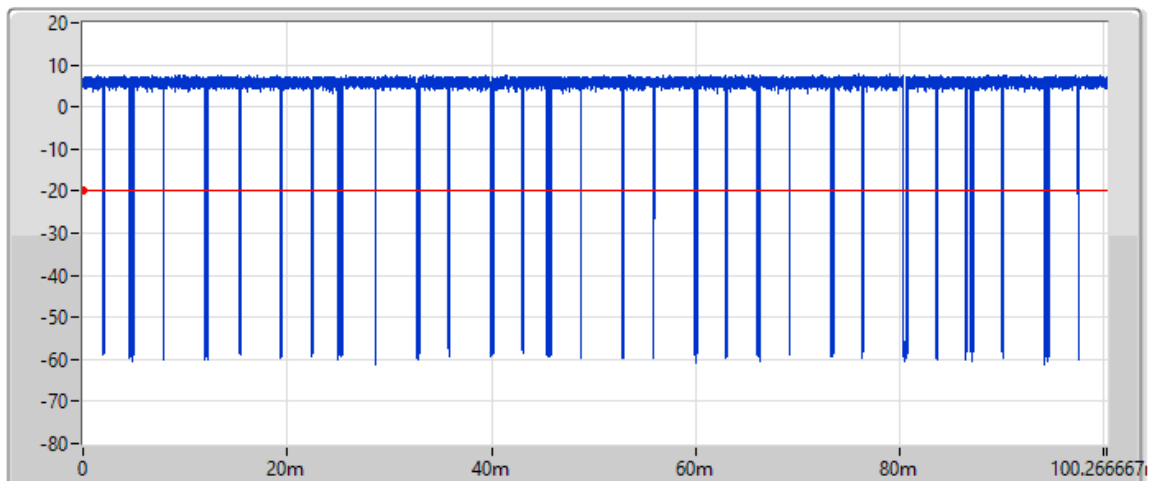
04/12/2023



Duty Cycle

Bandwidth: 20MHz

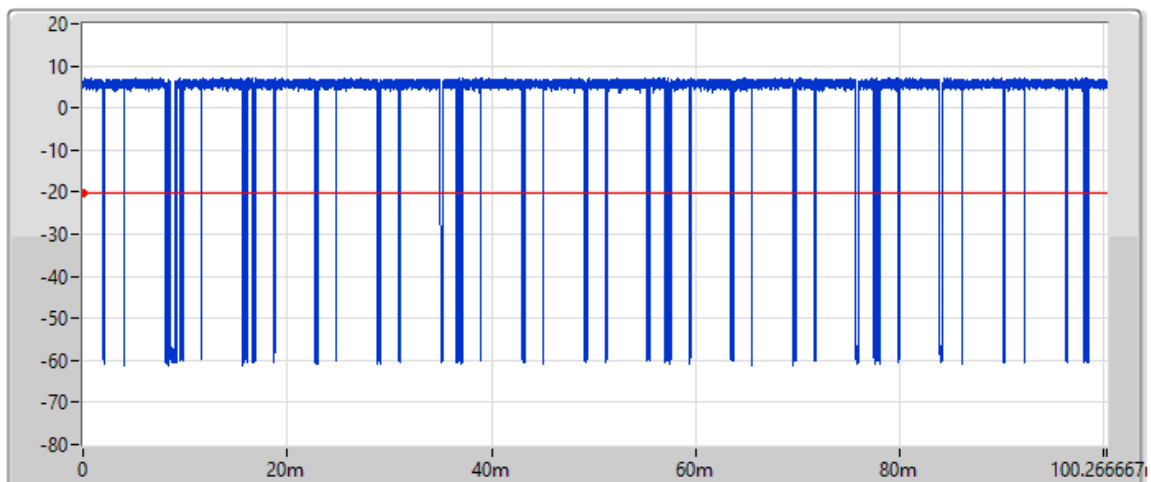
DC;ax20;BWch:20



Ch Freq (Hz)	RBW (Hz)	VBW (Hz)	Sweep Time (s)	Total Sample	Sample Time (s)	TX Time (s)	DC
6.135G	8M	8M	100.267m	32001	3.133344u	95.479251m	0.952

Bandwidth: 40MHz

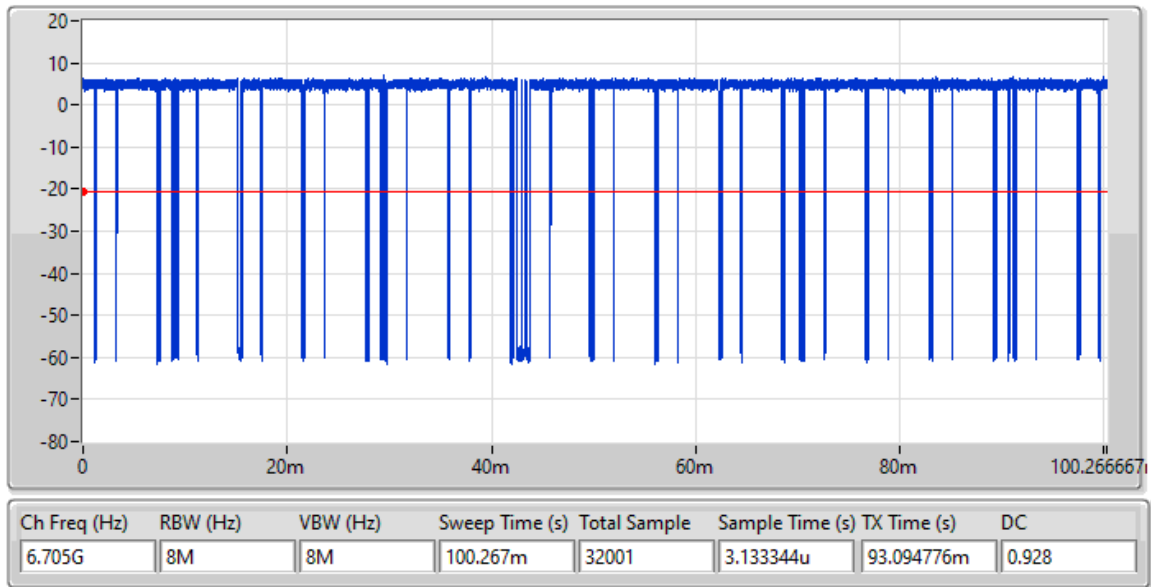
DC;ax40;BWch:40



Ch Freq (Hz)	RBW (Hz)	VBW (Hz)	Sweep Time (s)	Total Sample	Sample Time (s)	TX Time (s)	DC
6.365G	8M	8M	100.267m	32001	3.133344u	93.101043m	0.929

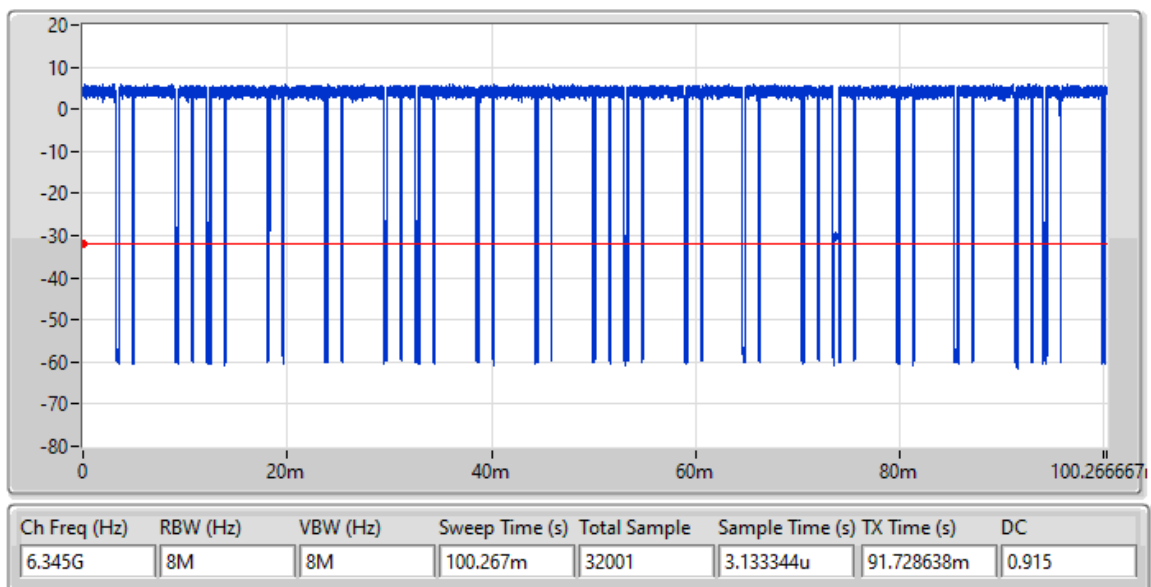
Bandwidth: 80MHz

DC;ax80;BWch:80



Bandwidth: 160MHz

DC;ax160;BWch:160



—THE END—