

Radio Test Report No: **EDCS - 25779349**

AFC Radio Test Report

CW9174I

Cisco Wireless 9174I Series Wi-Fi 7 Access Point

FCC ID: UDX-600218010

5925-6425MHz, 6425-6525MHz, 6525-6875MHz, & 6875-7125MHz

Against the following Specifications:

CFR47 Part 15.407



Cisco Systems, Inc.

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San Jose, CA 95134

Johanna Knudsen  Digitally signed by Johanna Knudsen Date: 2025.09.16 11:39:47 -07'00'	 Digitally signed by Sam Kim Date: 2025.09.16 12:29:49 -07'00'
Author: Johanna Knudsen Tested By: Johanna Knudsen	Approved By: Sam Kim Title: Leader, Radio Compliance & Operations Revision: 1.0

This report replaces any previously entered test report under EDCS 25779349. This test report has been electronically authorized and archived using the CISCO Engineering Document Control system. Test Report Template EDCS# 25227885.

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Section 1: Overview

The samples were assessed against the tests detailed in section 3 under the requirements of the following specifications:

Specifications:
CFR47 Part 15.407

Section 2: Assessment Information

2.1 General

This report contains an assessment of an apparatus against Electromagnetic Compatibility Standards based upon tests carried out on the samples submitted. The testing was performed by and for the use of Cisco systems Inc:

With regard to this assessment, the following points should be noted:

- a) The results contained in this report relate only to the items tested and were obtained in the period between the date of the initial assessment and the date of issue of the report. Manufactured products will not necessarily give identical results due to production and measurement tolerances.
- b) The apparatus was set up and exercised using the configuration and modes of operation defined in this report only.
- c) Where relevant, the apparatus was only assessed using the susceptibility criteria defined in this report and the Test Assessment Plan (TAP).
- d) All testing was performed under the following environmental conditions:

Temperature	15 °C to 35 °C (54 °F to 95 °F)
Atmospheric Pressure	860 mbar to 1060 mbar (25.4" to 31.3")
Humidity	10% to 75*%

- e) All AC testing was performed at one or more of the following supply voltages:

110V 60 Hz (+/-20%)

Units of Measurement

The units of measurements defined in the appendices are reported in specific terms, which are test dependent. Where radiated measurements are concerned these are defined at a particular distance. Basic voltage measurements are defined in units of [dBuV]

As an example, the basic calculation for all measurements is as follows:

$$\text{Emission level [dBuV]} = \text{Indicated voltage level [dBuV]} + \text{Cable Loss [dB]} + \text{Other correction factors [dB]}$$

The combinations of correction factors are dependent upon the exact test configurations [see test equipment lists for further details] and may include:

Antenna Factors, Pre-Amplifier Gain, LISN Loss, Pulse Limiter Loss and Filter Insertion Loss

Note: To convert the results from dBuV/m to uV/m use the following formula:

$$\text{Level in uV/m} = \text{Common Antilogarithm} [(X \text{ dBuV/m})/20] = Y \text{ uV/m}$$

Measurement Uncertainty Values

voltage and power measurements	± 2 dB
conducted EIRP measurements	± 1.4 dB
radiated measurements	± 3.2 dB
frequency measurements	± 2.4 10 ⁻⁷
temperature measurements	± 0.54°
humidity measurements	± 2.3%
DC and low frequency measurements	± 2.5%

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Where relevant measurement uncertainty levels have been estimated for tests performed on the apparatus. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Radiated emissions (expanded uncertainty, confidence interval 95%)

30 MHz – 300 MHz	± 3.8 dB
300 MHz – 1000 MHz	± 4.3 dB
1 GHz – 10 GHz	± 4.0 dB
10 GHz – 18GHz	± 8.2 dB
18GHz – 26.5GHz	± 4.1 dB
26.5GHz – 40GHz	± 3.9 dB

Conducted emissions (expanded uncertainty, confidence interval 95%)

30 MHz – 40 GHz	± 0.38 dB
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A product is considered to comply with a requirement if the nominal measured value is below the limit line. The product is considered to not be in compliance in case the nominal measured value is above the limit line.

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2.2 Date of testing

08/26/2025 – 09/11/2025

2.3 Report Issue Date

Cisco uses an electronic system to issue, store and control the revision of test reports. This system is called the Engineering Document Control System (EDCS). The actual report issue date is embedded into the original file on EDCS. Any copies of this report, either electronic or paper, that are not on EDCS must be considered uncontrolled.

Date	Version	Author	Description
09/16/2025	1	Johanna Knudsen	Initial version of Report

2.4 Testing facilities

Testing Laboratory
Cisco Systems, Inc.
125 West Tasman Drive (Building P)
San Jose, CA 95134
USA

Headquarters
Cisco Systems, Inc.,
170 West Tasman Drive
San Jose, CA 95134,
USA

Test Engineer(s):

Johanna Knudsen

2.5 Equipment Assessed (EUT)

CW9174I

2.6 EUT Description

The radio supports the following modes of operation, listed below. The modes are further defined in the radio Theory of Operation following power tables defined for the US. The modes included in this report represent the worst-case data for all modes.

NonHT20, HE20, EHT20
HE40, EHT40
HE80, EHT80
HE160, EHT160
HE320, EHT320

The following antennas are supported by this product series. Please note, the antenna information has been provided by the customer (the Cisco business unit). The data included in this report represent the worst-case data for all antennas.

6GHz Radio Antenna gain Worst Case	
Band	Antenna Gain (dBi)
UNII-5	6.36
UNII-6	5.83
UNII-7	5.14
UNII-8	6.96

6GHz Radio Antenna gain				
	UNII-5	UNII-6	UNII-7	UNII-8
Ant - A	6.36	4.57	4.89	5.17
Ant - B	5.40	5.83	5.14	6.96
Ant - C	5.30	3.39	3.55	3.31
Ant - D	3.14	4.90	3.21	4.91

2.7 EUT Information for AFC

EUT Category	Standard Power Access Point with Proxy
Indoor or Outdoor Device	Indoor
Professional Installation?	Yes
Supported Bandwidths	20/40/80/160/320MHz* *320MHz not currently supported on SP
Does the AP comply with LPI rules?	Yes
Does the AFC DUT support sending an Available Spectrum Inquiry Request based on the inquired Frequency Range field?	No
Does the AFC DUT support sending an Available Spectrum Inquiry Request based on the inquired Channels field?	Yes
AFC DUT's default inquiry type if more than one type supported	N/A
Does the AFC DUT need to be provided with BSS configuration parameters?	No
Does the AP comply with LPI rules?	Yes
Does the AP need mandatory registration information to create an Available Spectrum Request?	No
If the AP needs mandatory registration information to create an Available Spectrum Request, which geographic is supported by the AFC DUT?	N/A
If the AP can act as a Fixed Client which method is used to send an Available Spectrum Inquiry request?	N/A

EUT Software Information	Cisco AP Software, (ap1g9), [861d9c572adb:/san/BUILD/workspace/c1718_throttle_yocto/label/yocto_ap1g9/meraki-router/yocto/build/tmp/work/goldfinger_qca-cisco-linux/cheetah-rootfs-files/1.0-r0/git] Compiled Thu 21 Aug 2025 05:15:00 PM UTC AP Running Image: 17.18.2.25
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Proxy Software Information	Cisco IOS XE Software, Version BLD_V1718_THROTTLE_LATEST_20250825_010632 Cisco IOS Software [IOSXE], C9800 Software (C9800_IOSXE-K9), Experimental Version 17.18.20250825:020621 [BLD_V1718_THROTTLE_LATEST_20250825_010632:/nobackup/mcpre/s2c-build-ws102] Compiled Mon 25-Aug-25 02:07 by mcpre
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Section 3: Result Summary

AFC Test Harness – FCC AFC DUT test – v1 rev1

AFC Capability – Inquired Frequency – Inquired Frequency		
Test Group: Default - Always	Test Result	Comments
Test Case Name		
CT AFC SP AP AFCDRSA31 Frequency 20MHz 10611 1	NA	
CT AFC SP AP AFCDRSA31 Frequency 40MHz 10612 1	NA	
CT AFC SP AP AFCDRSA31 Frequency 80MHz 10613 1	NA	
CT AFC SP AP AFCDRSA31 Frequency 160MHz 10614 1	NA	
CT AFC SP AP AFCDRSA32 Frequency 10615 1	NA	
CT AFC SP AP AFCDRSA33 Frequency 10616 1	NA	
CT AFC SP AP AFCDRSA34 Frequency 10617 1	NA	
Test Group: Wi-Fi 7 320MHz – (320 MHz Channel Width)	Test Result	Comments
Test Case Name		
CT AFC SP AP AFCDRSA31 Frequency 320MHz 10713 1	NA	

AFC Capability – Inquired Channel – Inquired Channel		
Test Group: Default - Always	Test Result	Comments
Test Case Name		
CT AFC SP AP AFCDRSA31 Channel 20MHz 10618 1	PASS	Cisco SW
CT AFC SP AP AFCDRSA31 Channel 40MHz 10619 1	PASS	Cisco SW
CT AFC SP AP AFCDRSA31 Channel 80MHz 10620 1	PASS	Cisco SW
CT AFC SP AP AFCDRSA31 Channel 160MHz 10621 1	PASS	Cisco SW
CT AFC SP AP AFCDUSA32 Channel 10622 1	PASS	Cisco SW
CT AFC SP AP AFCDUSA33 Channel 10623 1	PASS	Cisco SW
CT AFC SP AP AFCDUAU34 Channel 10624 1	PASS	Cisco SW
Test Group: Wi-Fi 7 320MHz – (320 MHz Channel Width)	Test Result	Comments
Test Case Name		
CT AFC SP AP AFCDRSA31 Channel 320MHz 10714 1	Not tested	

AFC Capability – Inquired Frequency & Channel – Inquired Frequency and Channel		
Test Group: Default - Always	Test Result	Comments
Test Case Name		
CT AFC SP AP AFCDRSA31 FrequencyChannel 20MHz 10625 1	NA	
CT AFC SP AP AFCDRSA31 FrequencyChannel 40MHz 10626 1	NA	
CT AFC SP AP AFCDRSA31 FrequencyChannel 80MHz 10627 1	NA	
CT AFC SP AP AFCDRSA31 FrequencyChannel 160MHz 10628 1	NA	
CT AFC SP AP AFCDUSA32 FrequencyChannel 10629 1	NA	
CT AFC SP AP AFCDUSA33 FrequencyChannel 10630 1	NA	
CT AFC SP AP AFCDUAU34 FrequencyChannel 10631 1	NA	
Test Group: Wi-Fi 7 320MHz – (320 MHz Channel Width)	Test Result	Comments
Test Case Name		
CT AFC SP AP AFCDRSA31 FrequencyChannel 320MHz 10715 1	NA	

AFC Capability – Server Validation – Mandatory – Server Validation		
Test Group: Default - Always	Test Result	Comments
Test Case Name		
CT AFC ServerValidation AP AFCDUSV35 NonMatchSAN 10632 1	PASS	Cisco SW
CT AFC ServerValidation AP AFCDUSV35 DifferentRootCA 10633 1	PASS	Cisco SW
CT AFC ServerValidation AP AFCDUSV35 MatchSuffixSAN 10634 1	PASS	Cisco SW
CT AFC ServerValidation AP AFCDUSV35 ServerCertRevoked 10635 1	PASS	Cisco SW
CT AFC ServerValidation AP AFCDUSV35 OCSPStaplingDisabled 10636 1	PASS	Cisco SW
CT AFC ServerValidation AP AFCDUSV35 StapledOCSPRespExpired 10637 1	PASS	Cisco SW
CT AFC ServerValidation AP AFCDUSV35 TLSCipherSuiteENULL 10638 1	PASS	Cisco SW
CT AFC ServerValidation AP AFCDUSV35 NoRootCA 10639 1	PASS	Cisco SW

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Section 4: Sample Details

Note: Each sample was evaluated to ensure that its condition was suitable to be used as a test sample prior to the commencement of testing.

4.1 Sample Details

Sample No.	Equipment Details	Manufacturer/ Model	Hardware Rev.	Firmware Rev.	Software Rev.	Serial Number
S01	Wireless Access Point	Cisco / CW9174I	P2B	Radio FW version : QC_IMAGE_VERSION_STRING= WLAN.WBE.1.4-01611- QCAHKSUPL_SILICONZ -1	See Mode 1 below	FVH2902AC07
S02	Cisco Catalyst 9800 Series Wireless Controller	Cisco / C9800-40-K9	A0	NA	See Mode 1 below	TTM230905BL
S03	Server PC for traffic	ASUS / FX504G	NA	NA	NA	NA
S04	Client Laptop	Dell / XPS 13 9350	NA	NA	NA	NA
S05	Test Harness Laptop	Lenovo / ThinkPad T480s	NA	NA	AFC DUT Test Harness Version 2.0.65.184	NA

4.2 System Details

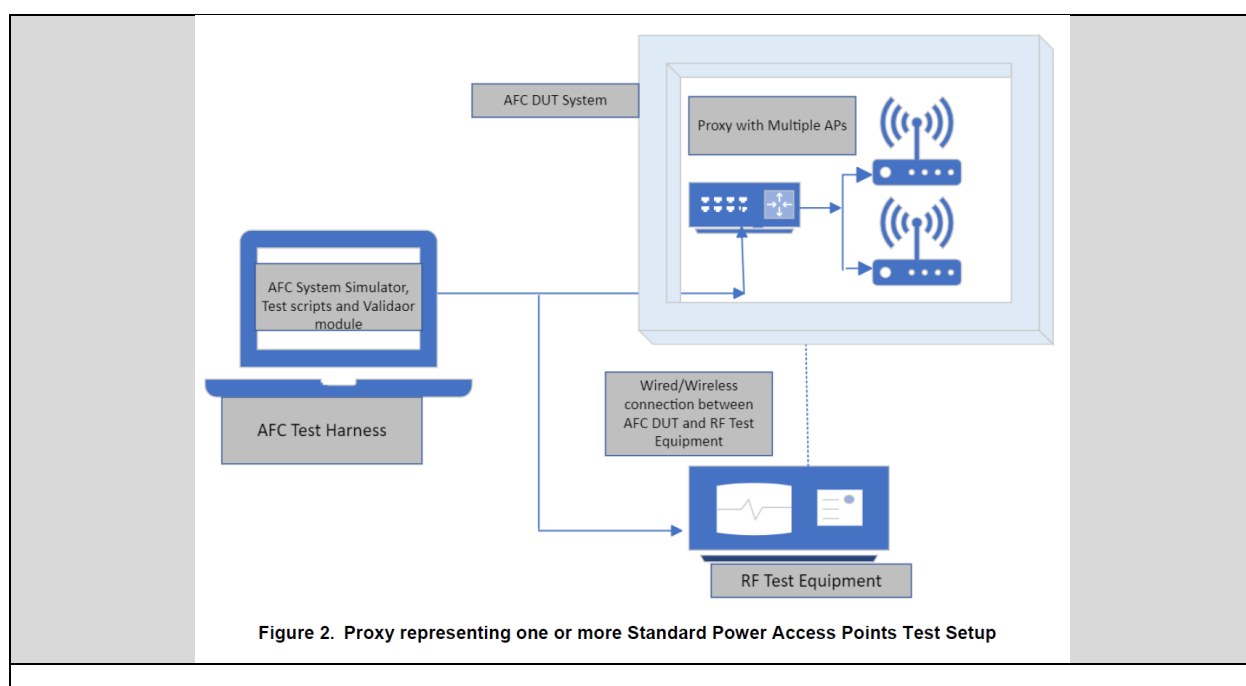
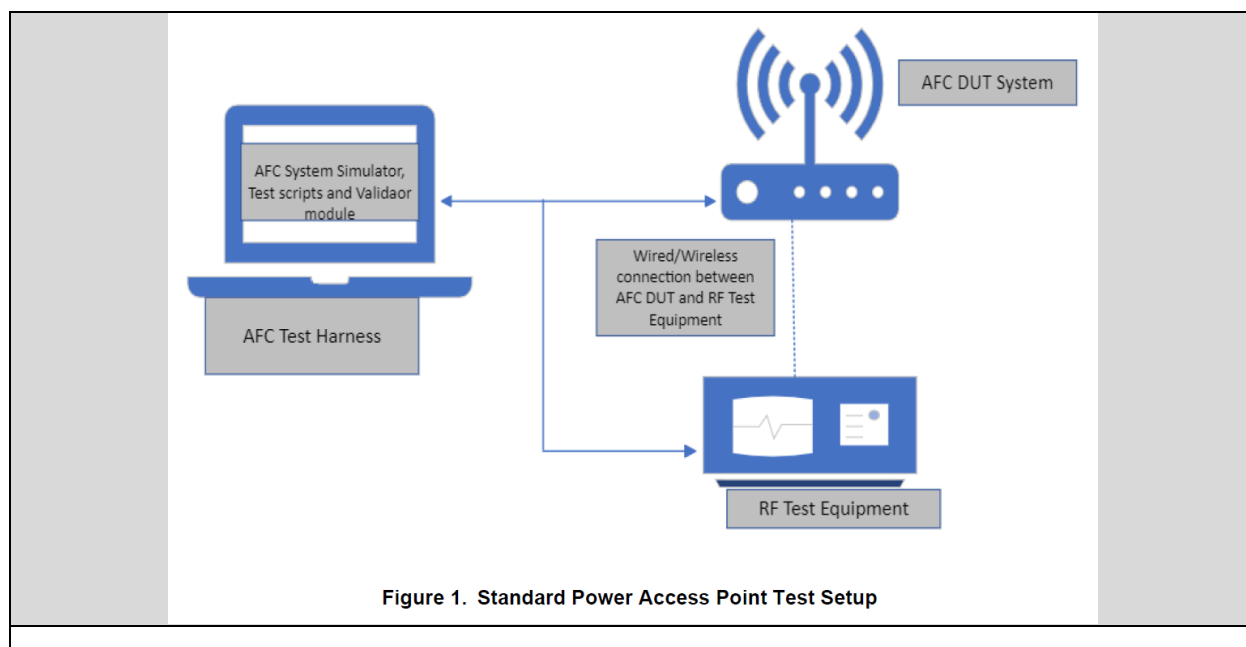
System #	Description	Samples
1	EUT & Wireless Controller (Proxy)	S01, S02
2	Support Equipment & Test Harness	S03, S04, S05

4.3 Mode of Operation Details

Mode#	Description	Comments
1	Mode for AFC (Access Point running Cisco Catalyst software, WLC as proxy, Test Harness Laptop, & Laptops for traffic)	Access Point running Cisco Catalyst software: Cisco AP Software, (ap1g9), [861d9c572adb:/san/BUILD/workspace/c1718_throttle_yocto/label/yocto_ap1g9/meraki-router/yocto/build/tmp/work/goldfinger_qca-cisco-linux/cheetah-rootfs-files/1.0-r0/git] Compiled Thu 21 Aug 2025 05:15:00 PM UTC AP Running Image: 17.18.2.25 WLC Image Cisco IOS XE Software, Version BLD_V1718_THROTTLE_LATEST_20250825_010632 Cisco IOS Software [IOSXE], C9800 Software (C9800_IOSXE-K9), Experimental Version 17.18.20250825:020621 [BLD_V1718_THROTTLE_LATEST_20250825_010632:/nobackup/mcpre/s2c-build-ws102] Compiled Mon 25-Aug-25 02:07 by mcpre

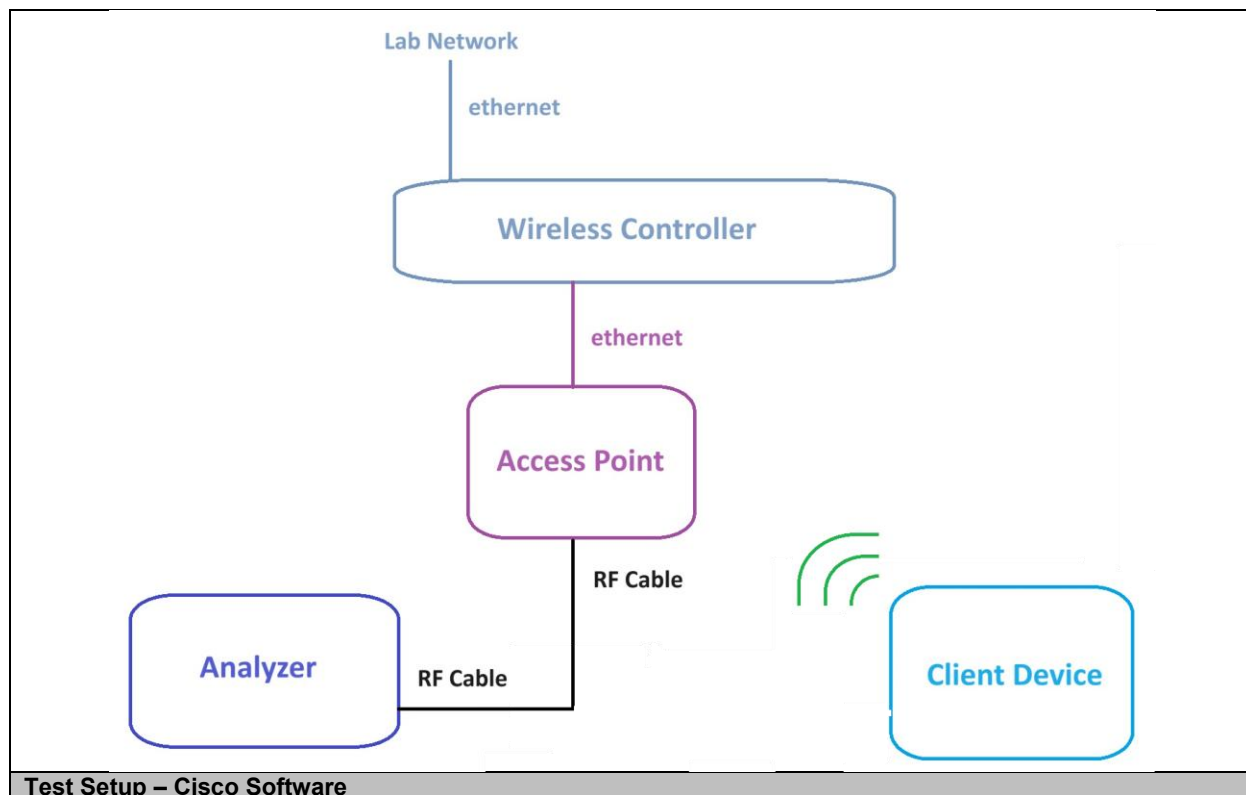
Appendix A: AFC DUT Test Harness Results

Conducted Test Setup Diagram



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Test Setup Description



A.1 AFC Results

Automated Frequency Coordination Test Requirement

FCC 15.407(k)(1), (8)

47 CFR 15.407(k) Automated frequency coordination (AFC) system

(1) Standard power access points and fixed client devices operating under paragraph (a)(4) of this section must access an AFC system to determine the available frequencies and the maximum permissible power in each frequency range at their geographic coordinates prior to transmitting. Standard power access points and fixed client devices may transmit only on frequencies and at power levels that an AFC system indicates as available.

(8) Standard power access points and fixed client devices:

(i) Must register with and be authorized by an AFC system prior to the standard power access point and fixed client device's initial service transmission, or after a standard power access point or fixed client device changes location, and must obtain a list of available frequencies and the maximum permissible power in each frequency range at the standard power access point and fixed client device's location.

(ii) Must register with the AFC system by providing the following parameters: Geographic coordinates (latitude and longitude referenced to North American Datum 1983 (NAD 83)), antenna height above ground level, FCC identification number, and unique manufacturer's serial number. If any of these parameters change, the standard power access point or fixed client device must provide updated parameters to the AFC system. All information provided by the standard power access point and the fixed client device to the AFC system must be true, complete, correct, and made in good faith.

(iii) Must provide the registration information to the AFC system either directly and individually or by a network element representing multiple standard power access points or fixed client devices from the same operating network. The standard power access point, fixed client device or its network element must register with the AFC system via any communication link, wired or wireless, outside 5.925–6.425 GHz and 6.525–6.875 GHz bands.

(iv) Must contact an AFC system at least once per day to obtain the latest list of available frequencies and the maximum permissible power the standard power access point or fixed client device may operate with on each frequency at the standard power access point and fixed client device's location. If the standard power access point or fixed client device fails to successfully contact the AFC system during any given day, the standard power access point or fixed client device may continue to operate until 11:59 p.m. of the following day at which time it must cease operations until it re-establishes contact with the AFC system and re-verifies its list of available frequencies and associated power levels.

(v) Must incorporate adequate security measures to prevent it from accessing AFC systems not approved by the FCC and to ensure that unauthorized parties cannot modify the device to operate in a manner inconsistent with the rules and protection criteria set forth in this section and to ensure that communications between standard power access points, fixed client devices and AFC systems are secure to prevent corruption or unauthorized interception of data. Additionally, the AFC system must incorporate security measures to protect against unauthorized data input or alteration of stored data, including establishing communications authentication procedures between client devices and standard power access points.

987594 D01 U-NII 6GHz General Requirements v03r01

4. Standard Power Access Points and Associated Clients (6SD, 6FX, 6FC)

The operation standard power APs and Fixed clients are prohibited on oil platforms, cars, trains, boats, and aircraft. Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems. A Security description is required (15.407(i), Device Security) for all U-NII devices to protect against software modification by unauthorized parties (see KDB 789033). Label information required in the exhibit types ID Label/Location Info FCC ID E-labelling is permitted on devices qualifying for e-labelling. 4.1 Standard Power Access Point (6SD) Operates in the 5.925-6.425 GHz and 6.525-6.875 GHz bands. Is managed by an Automated Frequency Coordination System. A standard power access point must provide relevant information to an associated client so that the client can adjust its EIRP to a minimum 6 dB lower than what is authorized by the AFC for the standard-power access point. These devices may operate as a bridge, peer-to-peer connection, connector between the wired and

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wireless segments of the network, or a relay between wireless network segments. FCC ID: E-labelling is permitted on devices qualifying for e-labelling. Label information required in the exhibit types ID Label/Location Info: • FCC ID The device user manual must contain the following information. The user manual must be filed as an exhibit in the application filing. • The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft. • Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems. Geolocation exhibits required see section 10 below. EMC test reports guidance provided in 987594 D02 U-NII 6 GHz EMC Measurement AFC DUT test harness guidance, provided in 987594 D05 Standard AP and Fixed Client Testing.

Automated Frequency Coordination Test Procedure

987594 D01 U-NII 6GHz General Requirements v03r01

EMC test reports guidance provided in 987594 D02 U-NII 6 GHz EMC Measurement AFC DUT test harness guidance, provided in 987594 D05 Standard AP and Fixed Client Testing.

987594 D01 U-NII 6GHz General Requirements v03r01

Automated Frequency Coordination	
Test Procedure	
See Wi-Fi Alliance DUT harness guidance	

Samples, Systems, and Modes

System Number	Description	Samples	System under test	Support equipment
1	EUT	S01, S02	☒	☐
	Support	S03, S04, S05	☐	☒

Tested By: Johanna Knudsen	Date of testing: 08/26/2025 – 09/11/2025
Test Result: PASS	

Test Equipment

See Appendix C for list of test equipment.

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Wi-Fi Alliance Test Harness AFC test reports

7dBi Antenna Results

CT_AFC_SP_AP_AFCDRSA31_Channel_20MHz_10618_1

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP with Proxy
DUT Vendor Name	Cisco
DUT Product Model	CW9174I

Test Result

FCC Requirements	TestCaseName	Test Result
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_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 transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (29.0 dBm EIRP) in Spectrum Reponse] on channel 5 bandwidth 20.	true	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2	AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (23.4 dBm EIRP) in Spectrum Reponse] on channel 21 bandwidth 20.	true	PASS

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CT_AFC_SP_AP_AFCDRSA31_Channel_40MHz_10619_1

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP with Proxy
DUT Vendor Name	Cisco
DUT Product Model	CW9174I

Test Result

FCC Requirements	TestCaseName	Test Result
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

Test Measurements

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 transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (28.8 dBm EIRP) in Spectrum Reponse] on channel center frequency index 51 bandwidth 40.	true	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2	AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (33.2 dBm EIRP) in Spectrum Reponse] on channel center frequency index 3 bandwidth 40.	true	PASS

Radio Test Report No: **EDCS - 25779349**

CT_AFC_SP_AP_AFCDRSA31_Channel_80MHz_10620_1

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP with Proxy
DUT Vendor Name	Cisco
DUT Product Model	CW9174I

Test Result

FCC Requirements	TestCaseName	Test Result
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

Test Measurements

TestCaseName: CT_AFC_SP_AP_AFCDRSA31_Channel_80MHz_10620_1 (Successful registration and spectrum access request)

TestResult:PASS

Band:6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS

AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (31.4 dBm EIRP) in Spectrum Reponse] 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 transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (32.3 dBm EIRP) in Spectrum Reponse] on channel center frequency index 47 bandwidth 160.	true	PASS

Radio Test Report No: **EDCS - 25779349**

CT_AFC_SP_AP_AFCDRSA31_Channel_160MHz_10621_1

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP with Proxy
DUT Vendor Name	Cisco
DUT Product Model	CW9174I

Test Result

FCC Requirements	TestCaseName	Test Result
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

Test Measurements

TestCaseName: CT_AFC_SP_AP_AFCDRSA31_Channel_160MHz_10621_1 (Successful registration and spectrum access request)

TestResult:PASS

Band:6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS

AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (27.9 dBm EIRP) in Spectrum Reponse] on channel center frequency index 7 bandwidth 80.	true	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2	AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (33.1 dBm EIRP) in Spectrum Reponse] on channel center frequency index 87 bandwidth 80.	true	PASS

Radio Test Report No: **EDCS - 25779349**

CT_AFC_SP_AP_AFCDUSA32_Channel_10622_1

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP with Proxy
DUT Vendor Name	Cisco
DUT Product Model	CW9174I

Test Result

FCC Requirements	TestCaseName	Test Result
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

Test Measurements

TestCaseName: CT_AFC_SP_AP_AFCDUSA32_Channel_10622_1 (Unsuccessful registration and spectrum access request)

TestResult:PASS

Band:6GHz

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

Radio Test Report No: **EDCS - 25779349**

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



Radio Test Report No: **EDCS - 25779349**

CT_AFC_SP_AP_AFCDSAUI33_Channel_10623_1

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP with Proxy
DUT Vendor Name	Cisco
DUT Product Model	CW9174I

Test Result

FCC Requirements	TestCaseName	Test Result
15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(9)(i)	CT_AFC_SP_AP_AFCDSAUI33_Channel_10623_1 (Successful spectrum access update)	PASS

Test Measurements

TestCaseName: CT_AFC_SP_AP_AFCDSAUI33_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

Radio Test Report No: **EDCS - 25779349**

AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (34.0 dBm EIRP) in Spectrum Reponse] on channel 5 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



Radio Test Report No: **EDCS - 25779349**

CT_AFC_SP_AP_AFCDUAU34_Channel_10624_1

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP with Proxy
DUT Vendor Name	Cisco
DUT Product Model	CW9174I

Test Result

FCC Requirements	TestCaseName	Test Result
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

Test Measurements

TestCaseName: CT_AFC_SP_AP_AFCDUAU34_Channel_10624_1 (Unsuccessful spectrum access update)

TestResult:PASS

Band:6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS

Radio Test Report No: **EDCS - 25779349**

AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (36.0 dBm EIRP) in Spectrum Reponse] on channel 165 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



Radio Test Report No: **EDCS - 25779349**

CT_AFC_ServerValidation_AP_AFCDUSV35_NonMatchSAN_10632_1

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP with Proxy
DUT Vendor Name	Cisco
DUT Product Model	CW9174I

Test Result

FCC Requirements	TestCaseName	Test Result
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_NonMatchSAN_10632_1 (Unsuccessful server validation)	PASS

Test Measurements

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



Radio Test Report No: **EDCS - 25779349**

CT_AFC_ServerValidation_AP_AFCDUSV35_DifferentRootCA_10633_1

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP with Proxy
DUT Vendor Name	Cisco
DUT Product Model	CW9174I

Test Result

FCC Requirements	TestCaseName	Test Result
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_DifferentRootCA_10633_1 (Unsuccessful server validation)	PASS

Test Measurements

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



Radio Test Report No: **EDCS - 25779349**

CT_AFC_ServerValidation_AP_AFCDUSV35_MatchSuffixSAN_10634_1

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP with Proxy
DUT Vendor Name	Cisco
DUT Product Model	CW9174I

Test Result

FCC Requirements	TestCaseName	Test Result
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_MatchSuffixSAN_10634_1 (Unsuccessful server validation)	PASS

Test Measurements

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



Radio Test Report No: **EDCS - 25779349**

CT_AFC_ServerValidation_AP_AFCDUSV35_ServerCertRevoked_10635_1

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP with Proxy
DUT Vendor Name	Cisco
DUT Product Model	CW9174I

Test Result

FCC Requirements	TestCaseName	Test Result
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_ServerCertRevoked_10635_1 (Unsuccessful server validation)	PASS

Test Measurements

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



Radio Test Report No: **EDCS - 25779349**

CT_AFC_ServerValidation_AP_AFCDUSV35_OCSPStaplingDisabled_10636_1

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP with Proxy
DUT Vendor Name	Cisco
DUT Product Model	CW9174I

Test Result

FCC Requirements	TestCaseName	Test Result
15.407(k)(8)(v)	<u>CT_AFC_ServerValidation_AP_AFCDUSV35_OCSPStaplingDisabled_10636_1 (Unsuccessful server validation)</u>	PASS

Test Measurements

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

Radio Test Report No: **EDCS - 25779349**

CT_AFC_ServerValidation_AP_AFCDUSV35_StapledOCSPRespExpired_10637_1

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP with Proxy
DUT Vendor Name	Cisco
DUT Product Model	CW9174I

Test Result

FCC Requirements	TestCaseName	Test Result
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_StapledOCSPRespExpired_10637_1 (Unsuccessful server validation)	PASS

Test Measurements

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



Radio Test Report No: **EDCS - 25779349**

CT_AFC_ServerValidation_AP_AFCDUSV35_TLSCipherSuiteENULL_10638_1

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP with Proxy
DUT Vendor Name	Cisco
DUT Product Model	CW9174I

Test Result

FCC Requirements	TestCaseName	Test Result
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_TLSCipherSuiteENULL_10638_1 (Unsuccessful server validation)	PASS

Test Measurements

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

Radio Test Report No: **EDCS - 25779349**

CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP with Proxy
DUT Vendor Name	Cisco
DUT Product Model	CW9174I

Test Result

FCC Requirements	TestCaseName	Test Result
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1 (Unsuccessful server validation)	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

Wi-Fi Alliance Test Harness AFC Logs

7dBi Antenna Results

CT_AFC_SP_AP_AFCRSA31_Channel_20MHz_10618_1

2025-08-27T17:38:45Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.90.90.2",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1233",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "13009185634424808421",
        "deviceDescriptor": {
          "serialNumber": "FVH2902AC07",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "UDX-600218010"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.949477,
          "latitude": 37.0409208
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      },
      "elevation": {
        "height": 17,
        "heightType": "AGL",
        "verticalUncertainty": 4
      },
      "indoorDeployment": 1
    }
  },
}
```

```

    "inquiredChannels": [
      {
        "globalOperatingClass": 131
      },
      {
        "globalOperatingClass": 132
      },
      {
        "globalOperatingClass": 133
      },
      {
        "globalOperatingClass": 134
      },
      {
        "globalOperatingClass": 137,
        "channelCfi": [
          31,
          63
        ]
      }
    ],
    "vendorExtensions": [
      {
        "extensionId": "APInfo",
        "parameters": {
          "version": "v1",
          "PID": "CW9174I",
          "countryCode": "US ",
          "VID": "01"
        }
      }
    ]
  },
  "vendorExtensions": [
    {
      "extensionId": "XEControllerInfo",
      "parameters": {
        "version": "v1",
        "extendedDebugEnable": "False",
        "chassisInfo": [
          {
            "role": "active",
            "PID": "C9800-40-K9",
            "SN": "TTM230905BL",
            "WLC-Version": "17.18.02"
          }
        ]
      }
    },
    {
      "licenseInfo": {
        "licensingType": "air-dna-advantage",
        "count": 0,

```

Radio Test Report No: **EDCS - 25779349**

```

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

```

2025-08-27T17:38:45Z

```

{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            1,
            5,
            9,
            13,
            81,
            85,
            89,
            93,
            129,
            133,
            137,
            141,
            161,
            165,
            169,
            173
          ],
          "globalOperatingClass": 131,
          "maxEirp": [
            22.6,
            29.0,
            25.9,
            32.7,
            34.1,
            28.9,
            25.7,
            23.4,
            22.1,
            27.0,
            31.3,
            22.2,

```

Radio Test Report No: **EDCS - 25779349**

```

        25.0,
        26.8,
        33.6,
        23.8
    ]
},
{
    "channelCfi": [
        3,
        11,
        83,
        91,
        131,
        139,
        163,
        171
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
        25.6,
        28.9,
        31.9,
        26.4,
        25.1,
        25.2,
        28.0,
        26.8
    ]
},
{
    "channelCfi": [
        7,
        87,
        135,
        167
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
        28.6,
        29.4,
        28.1,
        29.8
    ]
},
{
    "channelCfi": [],
    "globalOperatingClass": 134,
    "maxEirp": []
}
],
"requestId": "13009185634424808421",

```

Radio Test Report No: **EDCS - 25779349**

```

    "availabilityExpireTime": "2025-08-28T17:38:45Z",
    "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
  }
},
"version": "1.4"
}

##### 2025-08-27T17:48:41Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*//*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.90.90.2",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1233",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "13009185634424808422",
        "deviceDescriptor": {
          "serialNumber": "FVH2902AC07",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "UDX-600218010"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.949477,
          "latitude": 37.0409208
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      },
      "elevation": {
        "height": 27,
        "heightType": "AGL",
        "verticalUncertainty": 4
      },
      "indoorDeployment": 1
    }
  },

```

```

    "inquiredChannels": [
      {
        "globalOperatingClass": 131
      },
      {
        "globalOperatingClass": 132
      },
      {
        "globalOperatingClass": 133
      },
      {
        "globalOperatingClass": 134
      },
      {
        "globalOperatingClass": 137,
        "channelCfi": [
          31,
          63
        ]
      }
    ],
    "vendorExtensions": [
      {
        "extensionId": "APInfo",
        "parameters": {
          "version": "v1",
          "PID": "CW9174I",
          "countryCode": "US ",
          "VID": "01"
        }
      }
    ]
  },
  "vendorExtensions": [
    {
      "extensionId": "XEControllerInfo",
      "parameters": {
        "version": "v1",
        "extendedDebugEnable": "False",
        "chassisInfo": [
          {
            "role": "active",
            "PID": "C9800-40-K9",
            "SN": "TTM230905BL",
            "WLC-Version": "17.18.02"
          }
        ]
      }
    ],
    "licenseInfo": {
      "licensingType": "air-dna-advantage",
      "count": 0,

```

Radio Test Report No: **EDCS - 25779349**

```

        "lastRunAckReceived": "<none>",
        "countAPsRequiringAFC": 1
    }
}
]
}
}

```

2025-08-27T17:48:41Z

```

{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            17,
            21,
            25,
            29,
            33,
            37,
            41,
            45,
            49,
            53,
            57,
            61,
            65,
            69,
            73,
            77,
            145,
            149,
            153,
            157
          ],
          "globalOperatingClass": 131,
          "maxEirp": [
            29.1,
            23.4,
            27.4,
            29.0,
            32.8,
            30.4,
            33.0,
            28.4,

```

```

        32.2,
        21.9,
        29.0,
        26.6,
        25.4,
        26.5,
        34.8,
        33.1,
        26.7,
        30.4,
        21.2,
        34.2
    ]
},
{
    "channelCfi": [
        19,
        27,
        35,
        43,
        51,
        59,
        67,
        75,
        147,
        155
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
        26.4,
        30.4,
        33.4,
        31.4,
        24.9,
        29.6,
        28.4,
        36.0,
        29.7,
        24.2
    ]
},
{
    "channelCfi": [
        23,
        39,
        55,
        71,
        151
    ],
    "globalOperatingClass": 133,
    "maxEirp": [

```

Radio Test Report No: **EDCS - 25779349**

```
        29.4,
        34.4,
        27.9,
        31.4,
        27.2
      ]
    },
    {
      "channelCfi": [
        47
      ],
      "globalOperatingClass": 134,
      "maxEirp": [
        30.9
      ]
    }
  ],
  "requestId": "13009185634424808422",
  "availabilityExpireTime": "2025-08-28T17:48:41Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

Radio Test Report No: **EDCS - 25779349**

CT_AFC_SP_AP_AFCRSA31_Channel_40MHz_10619_1

2025-08-27T18:09:45Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.90.90.2",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1233",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "13009185634424808423",
        "deviceDescriptor": {
          "serialNumber": "FVH2902AC07",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "UDX-600218010"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.949477,
          "latitude": 37.0409208
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      },
      "elevation": {
        "height": 37,
        "heightType": "AGL",
        "verticalUncertainty": 4
      },
      "indoorDeployment": 1
    },
    "inquiredChannels": [
      {
        "globalOperatingClass": 131
      }
    ],
  },
}
```

```

    {
      "globalOperatingClass": 132
    },
    {
      "globalOperatingClass": 133
    },
    {
      "globalOperatingClass": 134
    },
    {
      "globalOperatingClass": 137,
      "channelCfi": [
        31,
        63
      ]
    }
  ],
  "vendorExtensions": [
    {
      "extensionId": "APInfo",
      "parameters": {
        "version": "v1",
        "PID": "CW9174I",
        "countryCode": "US ",
        "VID": "01"
      }
    }
  ]
},
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnabled": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-40-K9",
          "SN": "TTM230905BL",
          "WLC-Version": "17.18.02"
        }
      ]
    }
  ],
  "licenseInfo": {
    "licensingType": "air-dna-advantage",
    "count": 0,
    "lastRumAckReceived": "<none>",
    "countAPsRequiringAFC": 1
  }
}

```

Radio Test Report No: **EDCS - 25779349**

```
    }
  ]
}

##### 2025-08-27T18:09:45Z #####
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            49,
            53,
            57,
            61,
            81,
            85,
            89,
            93,
            145,
            149,
            153,
            157,
            161,
            165,
            169,
            173
          ],
          "globalOperatingClass": 131,
          "maxEirp": [
            25.8,
            26.8,
            23.4,
            25.5,
            28.3,
            32.1,
            29.1,
            21.4,
            31.7,
            24.6,
            30.8,
            29.8,
            30.7,
            31.6,
            25.2,
            23.9
          ]
        }
      ]
    }
  ]
}
```

```

    ]
  },
  {
    "channelCfi": [
      51,
      59,
      83,
      91,
      147,
      155,
      163,
      171
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
      28.8,
      26.4,
      31.3,
      24.4,
      27.6,
      32.8,
      33.7,
      26.9
    ]
  },
  {
    "channelCfi": [
      55,
      87,
      151,
      167
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
      29.4,
      27.4,
      30.6,
      29.9
    ]
  },
  {
    "channelCfi": [],
    "globalOperatingClass": 134,
    "maxEirp": []
  }
],
"requestId": "13009185634424808423",
"availabilityExpireTime": "2025-08-28T18:09:45Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],

```

```

    "version": "1.4"
  }

##### 2025-08-27T18:18:45Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.90.90.2",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1233",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "13009185634424808424",
        "deviceDescriptor": {
          "serialNumber": "FVH2902AC07",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "UDX-600218010"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.949477,
          "latitude": 37.0409208
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      },
      "elevation": {
        "height": 47,
        "heightType": "AGL",
        "verticalUncertainty": 4
      },
      "indoorDeployment": 1
    },
    "inquiredChannels": [
      {
        "globalOperatingClass": 131
      }
    ]
  }
}

```

```

    {
      "globalOperatingClass": 132
    },
    {
      "globalOperatingClass": 133
    },
    {
      "globalOperatingClass": 134
    },
    {
      "globalOperatingClass": 137,
      "channelCfi": [
        31,
        63
      ]
    }
  ],
  "vendorExtensions": [
    {
      "extensionId": "APInfo",
      "parameters": {
        "version": "v1",
        "PID": "CW9174I",
        "countryCode": "US ",
        "VID": "01"
      }
    }
  ]
},
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnabled": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-40-K9",
          "SN": "TTM230905BL",
          "WLC-Version": "17.18.02"
        }
      ]
    }
  ],
  "licenseInfo": {
    "licensingType": "air-dna-advantage",
    "count": 0,
    "lastRumAckReceived": "<none>",
    "countAPsRequiringAFC": 1
  }
}

```

Radio Test Report No: **EDCS - 25779349**

```

    }
  ]
}

```

2025-08-27T18:18:45Z

```

{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            1,
            5,
            9,
            13,
            17,
            21,
            25,
            29,
            33,
            37,
            41,
            45,
            65,
            69,
            73,
            77,
            129,
            133,
            137,
            141
          ],
          "globalOperatingClass": 131,
          "maxEirp": [
            31.6,
            30.2,
            29.4,
            29.1,
            21.7,
            31.7,
            27.8,
            28.1,
            30.5,
            22.4,
            32.4,
            22.6,

```

```

        31.0,
        32.7,
        23.8,
        28.7,
        31.0,
        31.4,
        32.8,
        28.9
    ]
},
{
    "channelCfi": [
        3,
        11,
        19,
        27,
        35,
        43,
        67,
        75,
        131,
        139
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
        33.2,
        32.1,
        24.7,
        30.8,
        25.4,
        25.6,
        34.0,
        26.8,
        34.0,
        31.9
    ]
},
{
    "channelCfi": [
        7,
        23,
        39,
        71,
        135
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
        35.1,
        27.7,
        28.4,
        29.8,

```

Radio Test Report No: **EDCS - 25779349**

```
        34.9
      ]
    },
    {
      "channelCfi": [
        15
      ],
      "globalOperatingClass": 134,
      "maxEirp": [
        30.7
      ]
    }
  ],
  "requestId": "13009185634424808424",
  "availabilityExpireTime": "2025-08-28T18:18:45Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

Radio Test Report No: **EDCS - 25779349**

CT_AFC_SP_AP_AFCRSA31_Channel_80MHz_10620_1

2025-08-27T19:00:54Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*//*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.90.90.2",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1233",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "13009185634424808425",
        "deviceDescriptor": {
          "serialNumber": "FVH2902AC07",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "UDX-600218010"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.949477,
          "latitude": 37.0409208
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      },
      "elevation": {
        "height": 17,
        "heightType": "AGL",
        "verticalUncertainty": 4
      },
      "indoorDeployment": 1
    },
    "inquiredChannels": [
      {
        "globalOperatingClass": 131
      }
    ]
  }
}
```

```

        "globalOperatingClass": 132
      },
      {
        "globalOperatingClass": 133
      },
      {
        "globalOperatingClass": 134
      },
      {
        "globalOperatingClass": 137,
        "channelCfi": [
          31,
          63
        ]
      }
    ],
    "vendorExtensions": [
      {
        "extensionId": "APIInfo",
        "parameters": {
          "version": "v1",
          "PID": "CW9174I",
          "countryCode": "US ",
          "VID": "01"
        }
      }
    ]
  },
  {
    "vendorExtensions": [
      {
        "extensionId": "XEControllerInfo",
        "parameters": {
          "version": "v1",
          "extendedDebugEnabled": "False",
          "chassisInfo": [
            {
              "role": "active",
              "PID": "C9800-40-K9",
              "SN": "TTM230905BL",
              "WLC-Version": "17.18.02"
            }
          ]
        }
      },
      {
        "licenseInfo": {
          "licensingType": "air-dna-advantage",
          "count": 0,
          "lastRumAckReceived": "<none>",
          "countAPsRequiringAFC": 1
        }
      }
    ]
  }
}

```

Radio Test Report No: **EDCS - 25779349**

```

    ]
  }
}

##### 2025-08-27T19:00:54Z #####
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            1,
            5,
            9,
            13,
            17,
            21,
            25,
            29,
            65,
            69,
            73,
            77,
            145,
            149,
            153,
            157
          ],
          "globalOperatingClass": 131,
          "maxEirp": [
            21.9,
            27.5,
            30.8,
            24.4,
            26.9,
            27.0,
            24.0,
            33.4,
            32.5,
            33.4,
            28.0,
            32.6,
            21.3,
            33.2,
            26.5,
            21.7
          ]
        }
      ]
    }
  ]
}

```

```
    },
    {
      "channelCfi": [
        3,
        11,
        19,
        27,
        67,
        75,
        147,
        155
      ],
      "globalOperatingClass": 132,
      "maxEirp": [
        24.9,
        27.4,
        29.9,
        27.0,
        35.5,
        31.0,
        24.3,
        24.7
      ]
    },
    {
      "channelCfi": [
        7,
        23,
        71,
        151
      ],
      "globalOperatingClass": 133,
      "maxEirp": [
        27.9,
        30.0,
        34.0,
        27.3
      ]
    },
    {
      "channelCfi": [
        15
      ],
      "globalOperatingClass": 134,
      "maxEirp": [
        30.9
      ]
    }
  ],
  "requestId": "13009185634424808425",
  "availabilityExpireTime": "2025-08-28T19:00:54Z",
```

Radio Test Report No: **EDCS - 25779349**

```

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

##### 2025-08-27T19:09:02Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.90.90.2",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1233",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "13009185634424808426",
        "deviceDescriptor": {
          "serialNumber": "FVH2902AC07",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "UDX-600218010"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.949477,
          "latitude": 37.0409208
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      },
      "elevation": {
        "height": 27,
        "heightType": "AGL",
        "verticalUncertainty": 4
      },
      "indoorDeployment": 1
    },
    "inquiredChannels": [

```

```

    {
      "globalOperatingClass": 131
    },
    {
      "globalOperatingClass": 132
    },
    {
      "globalOperatingClass": 133
    },
    {
      "globalOperatingClass": 134
    },
    {
      "globalOperatingClass": 137,
      "channelCfi": [
        31,
        63
      ]
    }
  ],
  "vendorExtensions": [
    {
      "extensionId": "APInfo",
      "parameters": {
        "version": "v1",
        "PID": "CW9174I",
        "countryCode": "US ",
        "VID": "01"
      }
    }
  ]
},
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnable": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-40-K9",
          "SN": "TTM230905BL",
          "WLC-Version": "17.18.02"
        }
      ]
    }
  ],
  "licenseInfo": {
    "licensingType": "air-dna-advantage",
    "count": 0,
    "lastRumAckReceived": "<none>",

```

Radio Test Report No: **EDCS - 25779349**

```

        "countAPsRequiringAFC": 1
      }
    }
  ]
}

```

2025-08-27T19:09:02Z

```

{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            33,
            37,
            41,
            45,
            49,
            53,
            57,
            61,
            81,
            85,
            89,
            93,
            129,
            133,
            137,
            141,
            161,
            165,
            169,
            173
          ],
          "globalOperatingClass": 131,
          "maxEirp": [
            28.1,
            26.5,
            23.1,
            30.0,
            28.5,
            21.1,
            27.7,
            22.2,
            29.7,

```

Radio Test Report No: **EDCS - 25779349**

```

    34.7,
    33.9,
    27.1,
    25.5,
    30.3,
    33.2,
    23.6,
    27.3,
    23.1,
    28.1,
    29.8
  ]
},
{
  "channelCfi": [
    35,
    43,
    51,
    59,
    83,
    91,
    131,
    139,
    163,
    171
  ],
  "globalOperatingClass": 132,
  "maxEirp": [
    29.5,
    26.1,
    24.1,
    25.2,
    32.7,
    30.1,
    28.5,
    26.6,
    26.1,
    31.1
  ]
},
{
  "channelCfi": [
    39,
    55,
    87,
    135,
    167
  ],
  "globalOperatingClass": 133,
  "maxEirp": [
    29.1,

```

Radio Test Report No: **EDCS - 25779349**

```
        27.1,  
        33.1,  
        29.6,  
        29.1  
    ]  
  },  
  {  
    "channelCfi": [  
      47  
    ],  
    "globalOperatingClass": 134,  
    "maxEirp": [  
      30.1  
    ]  
  }  
],  
"requestId": "13009185634424808426",  
"availabilityExpireTime": "2025-08-28T19:09:02Z",  
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
}  
],  
"version": "1.4"  
}
```

Radio Test Report No: **EDCS - 25779349**

CT_AFC_SP_AP_AFCRSA31_Channel_160MHz_10621_1

2025-09-11T23:18:00Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.90.90.2",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1232",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "13009185634424815668",
        "deviceDescriptor": {
          "serialNumber": "FVH2902AC07",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "UDX-600218010"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.949477,
          "latitude": 37.040921
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      },
      "elevation": {
        "height": 57,
        "heightType": "AGL",
        "verticalUncertainty": 4
      },
      "indoorDeployment": 1
    },
    "inquiredChannels": [
      {
        "globalOperatingClass": 131
      }
    ]
  }
}
```

```

        "globalOperatingClass": 132
      },
      {
        "globalOperatingClass": 133
      },
      {
        "globalOperatingClass": 134
      },
      {
        "globalOperatingClass": 137,
        "channelCfi": [
          31,
          63
        ]
      }
    ],
    "vendorExtensions": [
      {
        "extensionId": "APIInfo",
        "parameters": {
          "version": "v1",
          "PID": "CW9174I",
          "countryCode": "US",
          "VID": "01"
        }
      }
    ]
  },
  {
    "vendorExtensions": [
      {
        "extensionId": "XEControllerInfo",
        "parameters": {
          "version": "v1",
          "extendedDebugEnable": "False",
          "chassisInfo": [
            {
              "role": "active",
              "PID": "C9800-40-K9",
              "SN": "TTM230905BL",
              "WLC-Version": "17.18.02"
            }
          ]
        }
      }
    ],
    "licenseInfo": {
      "licensingType": "air-dna-advantage",
      "count": 0,
      "lastRumAckReceived": "<none>",
      "countAPsRequiringAFC": 1
    }
  }
}

```

```

    ]
  }
}

##### 2025-09-11T23:18:00Z #####
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableFrequencyInfo": [],
      "availableChannelInfo": [],
      "requestId": "13009185634424815668",
      "availabilityExpireTime": "2025-09-12T23:18:00Z",
      "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
    }
  ],
  "version": "1.4"
}

##### 2025-09-11T23:20:27Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.90.90.2",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1233",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "13009185634424815669",
        "deviceDescriptor": {
          "serialNumber": "FVH2902AC07",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "UDX-600218010"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {

```

```

        "center": {
            "longitude": -121.949477,
            "latitude": 37.0409208
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
    },
    "elevation": {
        "height": 17,
        "heightType": "AGL",
        "verticalUncertainty": 4
    },
    "indoorDeployment": 1
},
"inquiredChannels": [
    {
        "globalOperatingClass": 131
    },
    {
        "globalOperatingClass": 132
    },
    {
        "globalOperatingClass": 133
    },
    {
        "globalOperatingClass": 134
    },
    {
        "globalOperatingClass": 137,
        "channelCfi": [
            31,
            63
        ]
    }
],
"vendorExtensions": [
    {
        "extensionId": "APInfo",
        "parameters": {
            "version": "v1",
            "PID": "CW9174I",
            "countryCode": "US ",
            "VID": "01"
        }
    }
]
},
"vendorExtensions": [
    {

```

```

    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnable": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-40-K9",
          "SN": "TTM230905BL",
          "WLC-Version": "17.18.02"
        }
      ],
      "licenseInfo": {
        "licensingType": "air-dna-advantage",
        "count": 0,
        "lastRumAckReceived": "<none>",
        "countAPsRequiringAFC": 1
      }
    }
  }
}

```

2025-09-11T23:20:27Z

```

{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            1,
            5,
            9,
            13,
            17,
            21,
            25,
            29,
            65,
            69,
            73,
            77,
            81,
            85,
            89,
            93
          ]
        }
      ]
    }
  ]
}

```

```
    ],
    "globalOperatingClass": 131,
    "maxEirp": [
      26.1,
      27.9,
      34.8,
      34.9,
      25.7,
      32.1,
      29.0,
      32.5,
      22.8,
      22.4,
      29.7,
      32.2,
      29.2,
      32.4,
      27.9,
      27.4
    ]
  },
  {
    "channelCfi": [
      3,
      11,
      19,
      27,
      67,
      75,
      83,
      91
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
      29.1,
      36.0,
      28.7,
      32.0,
      25.4,
      32.7,
      32.2,
      30.4
    ]
  },
  {
    "channelCfi": [
      7,
      23,
      71,
      87
    ]
  },
  ],
```

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```

        "globalOperatingClass": 133,
        "maxEirp": [
            32.1,
            31.7,
            28.4,
            33.4
        ]
    },
    {
        "channelCfi": [
            15,
            79
        ],
        "globalOperatingClass": 134,
        "maxEirp": [
            34.7,
            31.4
        ]
    }
],
"requestId": "13009185634424815669",
"availabilityExpireTime": "2025-09-12T23:20:27Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}

##### 2025-09-11T23:34:14Z #####
{
    "headers": {
        "Host": "testserver.wfatestorg.org",
        "Accept": "*//*",
        "Accept-Encoding": "deflate, gzip",
        "Content-Type": "application/json",
        "X-Forwarded-For": "10.90.90.2",
        "X-Forwarded-Host": "testserver.wfatestorg.org",
        "X-Forwarded-Server": "testserver.wfatestorg.org",
        "Content-Length": "1233",
        "Connection": "Keep-Alive"
    },
    "body": {
        "version": "1.4",
        "availableSpectrumInquiryRequests": [
            {
                "requestId": "13009185634424815670",
                "deviceDescriptor": {
                    "serialNumber": "FVH2902AC07",
                    "certificationId": [
                        {
                            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",

```

```

        "id": "UDX-600218010"
      }
    ]
  },
  "location": {
    "ellipse": {
      "center": {
        "longitude": -121.949477,
        "latitude": 37.0409208
      },
      "majorAxis": 25,
      "minorAxis": 25,
      "orientation": 0.0
    },
    "elevation": {
      "height": 37,
      "heightType": "AGL",
      "verticalUncertainty": 4
    },
    "indoorDeployment": 1
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131
    },
    {
      "globalOperatingClass": 132
    },
    {
      "globalOperatingClass": 133
    },
    {
      "globalOperatingClass": 134
    },
    {
      "globalOperatingClass": 137,
      "channelCfi": [
        31,
        63
      ]
    }
  ]
},
"vendorExtensions": [
  {
    "extensionId": "APInfo",
    "parameters": {
      "version": "v1",
      "PID": "CW9174I",
      "countryCode": "US ",
      "VID": "01"
    }
  }
]

```

```

    }
  ]
}
],
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnable": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-40-K9",
          "SN": "TTM230905BL",
          "WLC-Version": "17.18.02"
        }
      ],
      "licenseInfo": {
        "licensingType": "air-dna-advantage",
        "count": 0,
        "lastRumAckReceived": "<none>",
        "countAPsRequiringAFC": 1
      }
    }
  }
]
}
}

```

2025-09-11T23:34:14Z

```

{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            33,
            37,
            41,
            45,
            49,
            53,
            57,
            61,
            129,
            133,

```

```

    137,
    141,
    145,
    149,
    153,
    157
  ],
  "globalOperatingClass": 131,
  "maxEirp": [
    32.9,
    31.8,
    30.2,
    26.5,
    23.3,
    26.9,
    34.1,
    25.2,
    27.0,
    29.7,
    24.7,
    29.6,
    23.4,
    24.6,
    25.3,
    24.3
  ]
},
{
  "channelCfi": [
    35,
    43,
    51,
    59,
    131,
    139,
    147,
    155
  ],
  "globalOperatingClass": 132,
  "maxEirp": [
    34.8,
    29.5,
    26.3,
    28.2,
    30.0,
    27.7,
    26.4,
    27.3
  ]
}
},
{

```

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```
"channelCfi": [
  39,
  55,
  135,
  151
],
"globalOperatingClass": 133,
"maxEirp": [
  32.5,
  29.3,
  30.7,
  29.4
]
},
{
  "channelCfi": [
    47,
    143
  ],
  "globalOperatingClass": 134,
  "maxEirp": [
    32.3,
    32.4
  ]
}
],
"requestId": "13009185634424815670",
"availabilityExpireTime": "2025-09-12T23:34:14Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

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CT_AFC_SP_AP_AFCDUSA32_Channel_10622_1

2025-08-28T23:22:49Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*//*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.90.90.2",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1233",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "13009185634424808430",
        "deviceDescriptor": {
          "serialNumber": "FVH2902AC07",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "UDX-600218010"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.949477,
          "latitude": 37.0409208
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      },
      "elevation": {
        "height": 17,
        "heightType": "AGL",
        "verticalUncertainty": 4
      },
      "indoorDeployment": 1
    },
    "inquiredChannels": [
      {
        "globalOperatingClass": 131
      }
    ]
  }
}
```

```

        "globalOperatingClass": 132
      },
      {
        "globalOperatingClass": 133
      },
      {
        "globalOperatingClass": 134
      },
      {
        "globalOperatingClass": 137,
        "channelCfi": [
          31,
          63
        ]
      }
    ],
    "vendorExtensions": [
      {
        "extensionId": "APIInfo",
        "parameters": {
          "version": "v1",
          "PID": "CW9174I",
          "countryCode": "US ",
          "VID": "01"
        }
      }
    ]
  },
  {
    "vendorExtensions": [
      {
        "extensionId": "XEControllerInfo",
        "parameters": {
          "version": "v1",
          "extendedDebugEnable": "False",
          "chassisInfo": [
            {
              "role": "active",
              "PID": "C9800-40-K9",
              "SN": "TTM230905BL",
              "WLC-Version": "17.18.02"
            }
          ]
        }
      },
      {
        "licenseInfo": {
          "licensingType": "air-dna-advantage",
          "count": 0,
          "lastRumAckReceived": "<none>",
          "countAPsRequiringAFC": 1
        }
      }
    ]
  }
}

```

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```
    ]
  }
}

##### 2025-08-28T23:22:49Z #####
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [],
      "requestId": "13009185634424808430",
      "availabilityExpireTime": "2025-08-29T23:22:49Z",
      "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
    }
  ],
  "version": "1.4"
}
```

Radio Test Report No: **EDCS - 25779349**

CT_AFC_SP_AP_AFCDSAU33_Channel_10623_1

2025-08-28T23:36:37Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*//*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.90.90.2",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1233",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "13009185634424808431",
        "deviceDescriptor": {
          "serialNumber": "FVH2902AC07",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "UDX-600218010"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.949477,
          "latitude": 37.0409208
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      },
      "elevation": {
        "height": 27,
        "heightType": "AGL",
        "verticalUncertainty": 4
      },
      "indoorDeployment": 1
    },
    "inquiredChannels": [
      {
        "globalOperatingClass": 131
      }
    ]
  }
}
```

```

        "globalOperatingClass": 132
      },
      {
        "globalOperatingClass": 133
      },
      {
        "globalOperatingClass": 134
      },
      {
        "globalOperatingClass": 137,
        "channelCfi": [
          31,
          63
        ]
      }
    ],
    "vendorExtensions": [
      {
        "extensionId": "APIInfo",
        "parameters": {
          "version": "v1",
          "PID": "CW9174I",
          "countryCode": "US ",
          "VID": "01"
        }
      }
    ]
  },
  {
    "vendorExtensions": [
      {
        "extensionId": "XEControllerInfo",
        "parameters": {
          "version": "v1",
          "extendedDebugEnabled": "False",
          "chassisInfo": [
            {
              "role": "active",
              "PID": "C9800-40-K9",
              "SN": "TTM230905BL",
              "WLC-Version": "17.18.02"
            }
          ]
        }
      }
    ],
    "licenseInfo": {
      "licensingType": "air-dna-advantage",
      "count": 0,
      "lastRumAckReceived": "<none>",
      "countAPsRequiringAFC": 1
    }
  }
}

```

Radio Test Report No: **EDCS - 25779349**

```

    ]
  }
}

##### 2025-08-28T23:36:37Z #####
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            1,
            5,
            9,
            13,
            33,
            37,
            41,
            45,
            49,
            53,
            57,
            61,
            81,
            85,
            89,
            93
          ],
          "globalOperatingClass": 131,
          "maxEirp": [
            26.9,
            34.0,
            28.2,
            33.6,
            32.5,
            22.4,
            32.5,
            23.3,
            23.5,
            24.8,
            33.8,
            22.8,
            30.1,
            28.2,
            22.8,
            33.9
          ]
        }
      ]
    }
  ]
}

```

```

    },
    {
      "channelCfi": [
        3,
        11,
        35,
        43,
        51,
        59,
        83,
        91
      ],
      "globalOperatingClass": 132,
      "maxEirp": [
        29.9,
        31.2,
        25.4,
        26.3,
        26.5,
        25.8,
        31.2,
        25.8
      ]
    },
    {
      "channelCfi": [
        7,
        39,
        55,
        87
      ],
      "globalOperatingClass": 133,
      "maxEirp": [
        32.9,
        28.4,
        28.8,
        28.8
      ]
    },
    {
      "channelCfi": [
        47
      ],
      "globalOperatingClass": 134,
      "maxEirp": [
        31.4
      ]
    }
  ],
  "requestId": "13009185634424808431",
  "availabilityExpireTime": "2025-08-29T23:36:37Z",

```

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

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CT_AFC_SP_AP_AFCDUAU34_Channel_10624_1

2025-08-29T00:14:41Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*//*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.90.90.2",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1232",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "13009185634424808432",
        "deviceDescriptor": {
          "serialNumber": "FVH2902AC07",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "UDX-600218010"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.949477,
          "latitude": 37.0409208
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      },
      "elevation": {
        "height": 57,
        "heightType": "AGL",
        "verticalUncertainty": 4
      },
      "indoorDeployment": 1
    },
    "inquiredChannels": [
      {
        "globalOperatingClass": 131
      }
    ]
  }
}
```

```

        "globalOperatingClass": 132
      },
      {
        "globalOperatingClass": 133
      },
      {
        "globalOperatingClass": 134
      },
      {
        "globalOperatingClass": 137,
        "channelCfi": [
          31,
          63
        ]
      }
    ],
    "vendorExtensions": [
      {
        "extensionId": "APIInfo",
        "parameters": {
          "version": "v1",
          "PID": "CW9174I",
          "countryCode": "US",
          "VID": "01"
        }
      }
    ]
  },
  {
    "vendorExtensions": [
      {
        "extensionId": "XEControllerInfo",
        "parameters": {
          "version": "v1",
          "extendedDebugEnable": "False",
          "chassisInfo": [
            {
              "role": "active",
              "PID": "C9800-40-K9",
              "SN": "TTM230905BL",
              "WLC-Version": "17.18.02"
            }
          ]
        }
      },
      {
        "licenseInfo": {
          "licensingType": "air-dna-advantage",
          "count": 0,
          "lastRumAckReceived": "<none>",
          "countAPsRequiringAFC": 1
        }
      }
    ]
  }
}

```

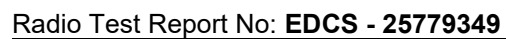
Radio Test Report No: **EDCS - 25779349**

```
    ]
  }
}

##### 2025-08-29T00:14:41Z #####
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCf": [
            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,
            153,
            157,
            161,
```



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```

    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": "13009185634424808432",
"availabilityExpireTime": "2025-08-30T00:14:41Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}

```

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CT AFC ServerValidation AP AFCDUSV35 ServerCertRevoked 10635 1

```
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CT AFC ServerValidation AP AFCDUSV35 OCSPStaplingDisabled 10636 1

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\\n_____ | _____ | _____
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CT AFC ServerValidation AP AFCDUSV35 StapledOCSPRespExpired 10637 1

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CT AFC ServerValidation AP AFCDUSV35 TLSCipherSuiteENULL 10638 1

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26T20_50_20Z", "logMessage": "CT_AFC_ServerValidation_AP_AFCDUSV35_TLSCipherSuiteENULL_10638_1
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UEST | False | AFC DUT sends an Available Spectrum Inquiry Request", "logCategory": "9"}, {"timeStamp": "2025-
08-26T20_50_20Z", "logMessage": "Completed execution of test case
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Appendix B: AFC Analyzer Screenshots

B.1 Duty Cycle

Duty Cycle Test Requirement

From KDB 987594, KDB 789033 D02 General UNII Test Procedures New Rules v03:

B. Duty Cycle (x), Transmission Duration (T), and Maximum Power Control Level

1. All measurements are to be performed with the EUT transmitting at 100 percent duty cycle at its maximum power control level; however, if 100 percent duty cycle cannot be achieved, measurements of duty cycle, x, and maximum-power transmission duration, T, are required for each tested mode of operation.

Duty Cycle Test Method

From KDB 987594, KDB 789033 D02 General UNII Test Procedures New Rules v03:

B. Duty Cycle (x), Transmission Duration (T), and Maximum Power Control Level

The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW $\geq$ EBW if possible; otherwise, set RBW to the largest available value. Set VBW $\geq$ RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$, where T is defined in section II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

Duty Cycle Test Information

Tested By: Johanna Knudsen	Date of testing: 08/26/2025 – 09/11/2025
Test Result: N/A	

Test Equipment

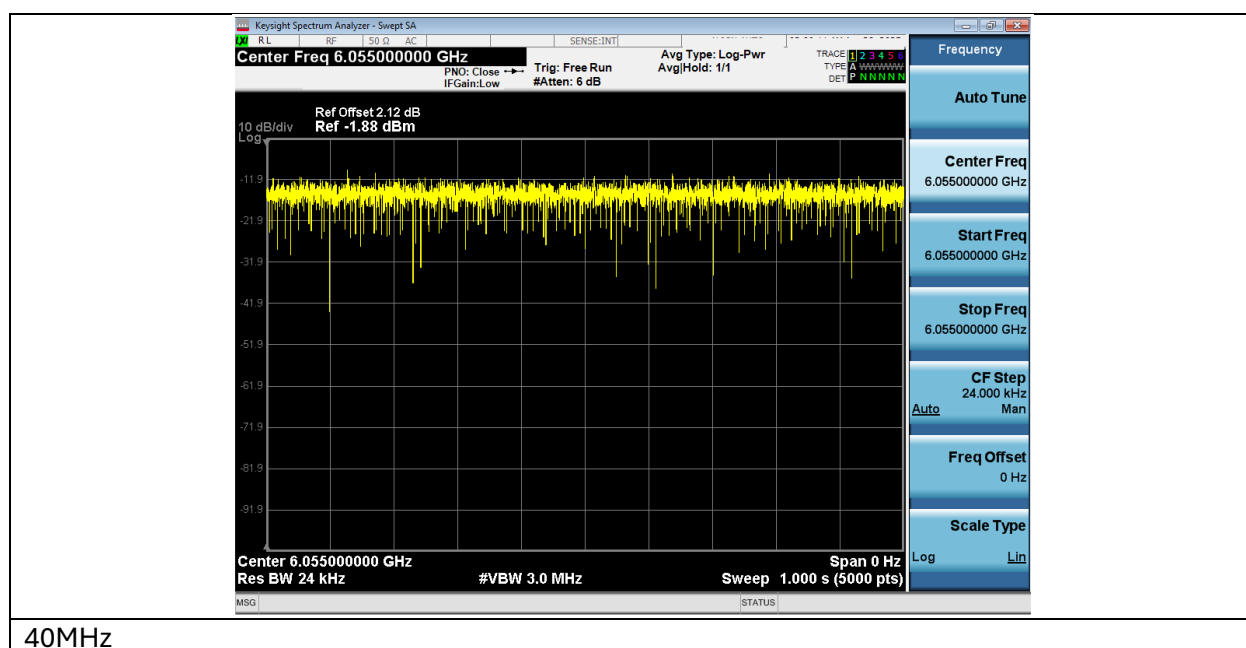
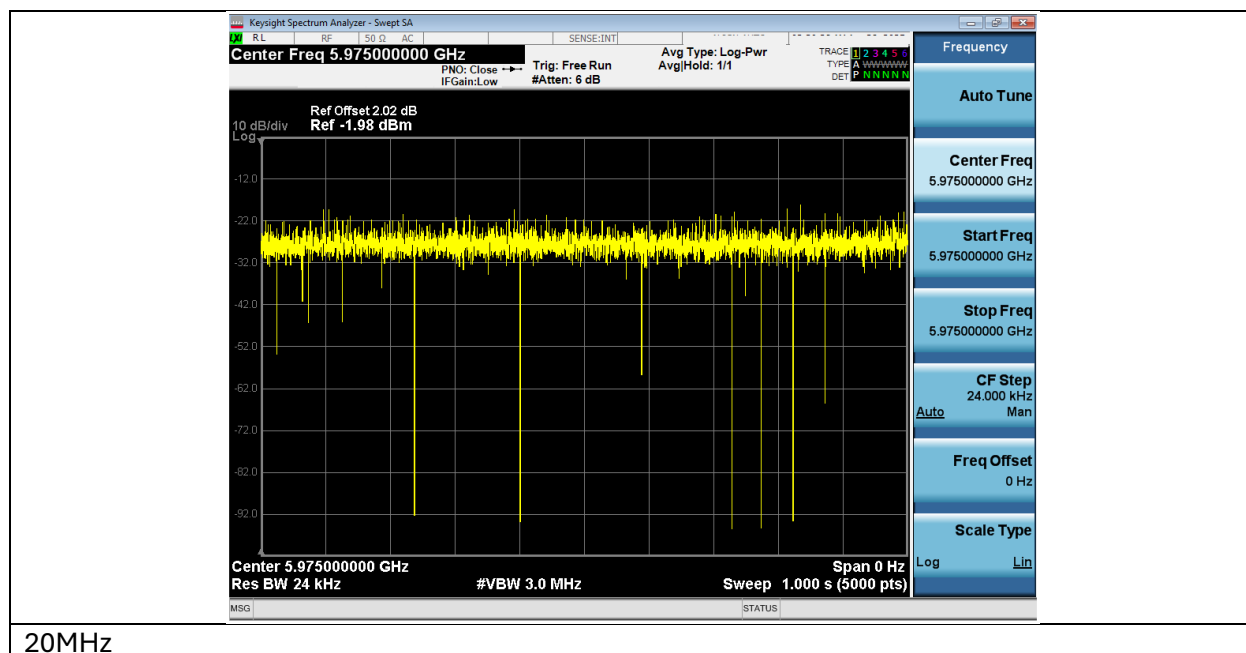
See Appendix C for list of test equipment.

Duty Cycle Data Table

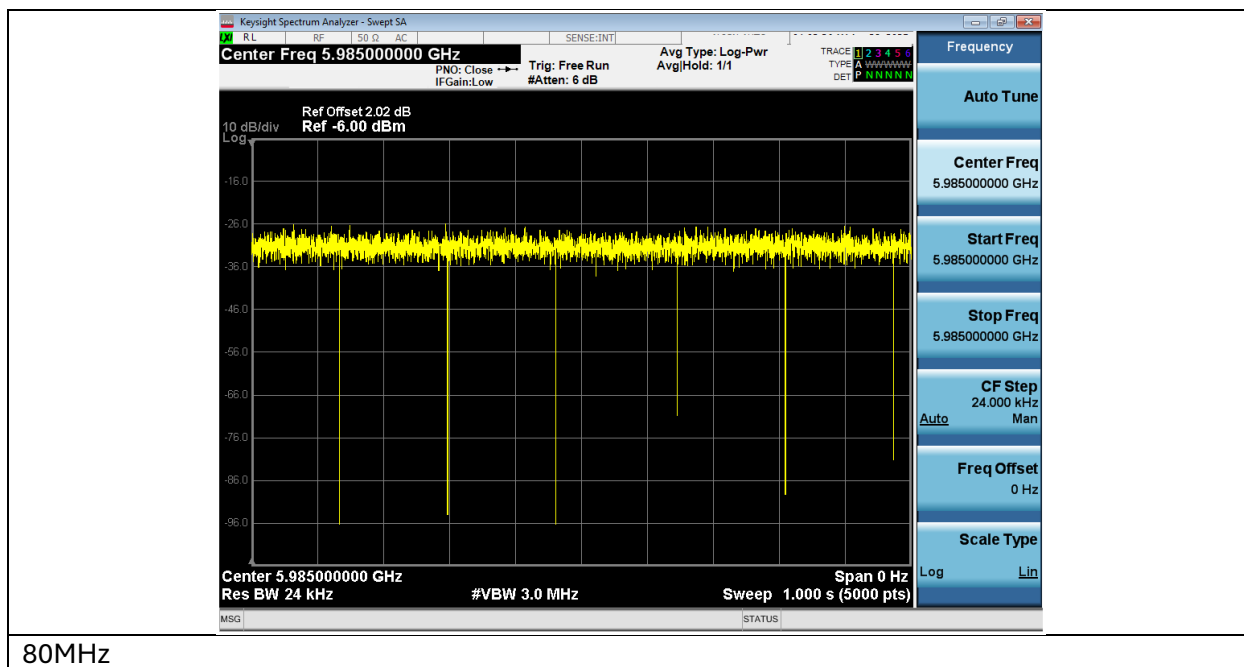
Mode	Duty Cycle (%)
20MHz	99.88
40MHz	99.94
80MHz	99.88
160MHz	99.30

Radio Test Report No: **EDCS - 25779349**

Duty Cycle with Traffic



Radio Test Report No: **EDCS - 25779349**



B.2 Power

Maximum Conducted Output Power Test Requirement

FCC 15.407(a):

(4) For a standard power access point and fixed client device operating in the 5.925–6.425 GHz and 6.525–6.875 GHz bands, the maximum power spectral density must not exceed 23 dBm e.i.r.p in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(5) For an indoor access point operating in the 5.925–7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.

(6) For a subordinate device operating under the control of an indoor access point in the 5.925–7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.

(7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925–6.425 GHz and 6.525–6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

(8) For client devices operating under the control of an indoor access point in the 5.925–7.125 GHz bands, the maximum power spectral density must not exceed –1 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

(11) The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

Maximum Conducted Output Power Test Procedure

ANSI C63.10: 2013

Ref. KDB 987594, KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Maximum Conducted Output Power Test Procedure
1. Set the radio in the continuous transmitting mode 2. Compute power by integrating the spectrum across the EBW (or alternatively entire 99% OBW) of the signal using the instrument's band power measurement function. The integration shall be performed using the spectrum analyzer band-power measurement function with band limits set equal to the EBW or the OBW band edges. 3. Capture graphs and record pertinent measurement data.

Ref. KDB 789033 D02 General UNII Test Procedures New Rules v02r01

2. Measurement using a Spectrum Analyzer or EMI Receiver (SA), (d) Method SA-2

Maximum Conducted Output Power Test parameters
--

Method SA-2 (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- (i) Measure the duty cycle, x , of the transmitter output signal as described in section II.B.
- (ii) Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (iii) Set RBW = 1 MHz.
- (iv) Set VBW $\geq$ 3 MHz.
- (v) Number of points in sweep $\geq$ 2 Span / RBW. (This ensures that bin-to-bin spacing is $\leq$ RBW/2, so that narrowband signals are not lost between frequency bins.)
- (vi) Sweep time = auto.
- (vii) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- (viii) Do not use sweep triggering. Allow the sweep to “free run”.
- (ix) Trace average at least 100 traces in power averaging (i.e., RMS) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
- (x) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument’s band power measurement function with band limits set equal to the EBW (or occupied bandwidth)

The “measure-and-sum technique” is used for measuring in-band transmit power of a device. In the measure-and-sum approach, the conducted emission level is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in linear power units. ANSI C63.10 section 14.3.2.2

Tested By: Johanna Knudsen	Date of testing: 08/26/2025 – 09/11/2025
Test Result: PASS	

Test Equipment

See Appendix C for list of test equipment.



Radio Test Report No: **EDCS - 25779349**

AFC Results Table - Maximum Conducted Output Power & PSD

7dBi Antenna Results Table

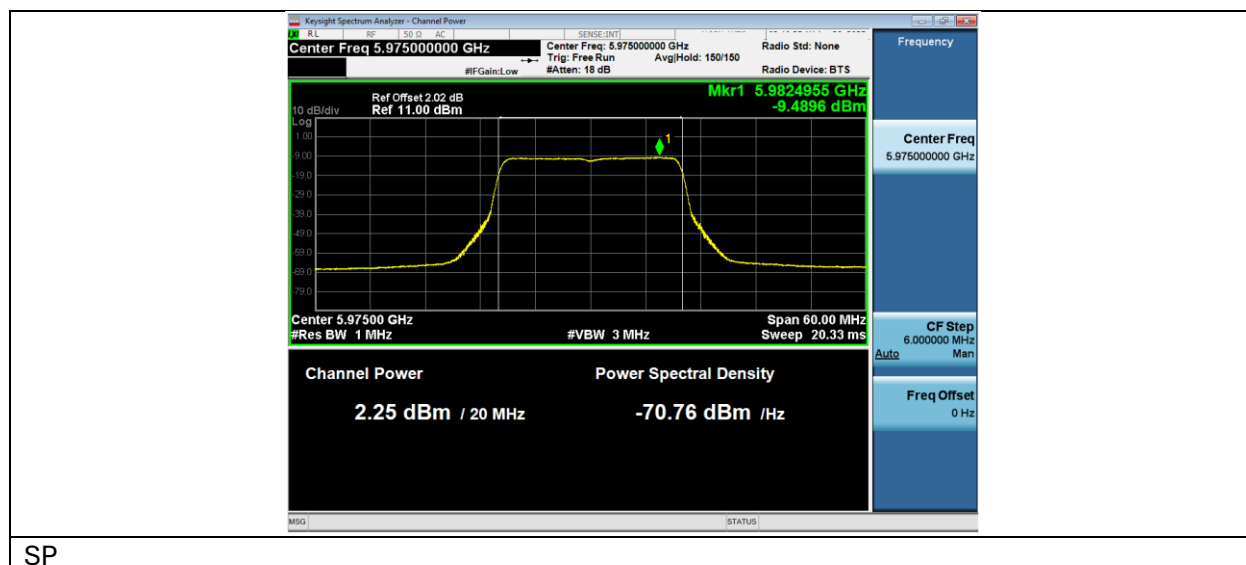
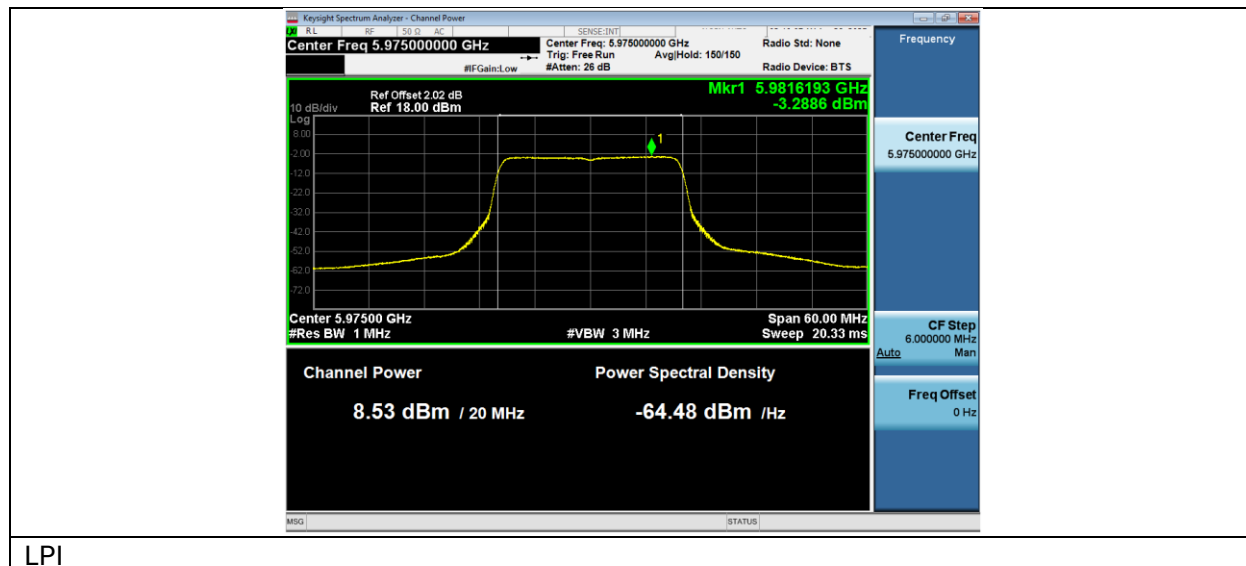
Test Case	Nominal BW (MHz)	Center Frequency (MHz)	LPI or SP	Antenna Gain	Power (dBm)	Power EIRP (dBm)	PSD (dBm/MHz)	PSD EIRP (dBm/MHz)	Ceiling Power Limit EIRP (dBm)	PSD Limit EIRP (dBm/MHz)	Margin Power EIRP (dBm)	Margin PSD EIRP (dBm/MHz)	Result
10618_1	20MHz	5975	LPI	6.36	8.53	14.89	-3.29	3.07	NA	5	NA	1.93	PASS
	20MHz	5975	SP	6.36	2.25	8.61	-9.49	-3.13	29	NA	20.39	NA	PASS
	20MHz	6055	SP	6.36	12.45	18.81	0.57	6.93	23.4	NA	4.59	NA	PASS
10619_1	40MHz	6045	LPI	6.96	11.68	18.64	-3.31	3.65		5	NA	1.35	PASS
	40MHz	6205	SP	6.96	13.6	20.56	-1.35	5.61	28.8	NA	8.24	NA	PASS
	40MHz	5965	SP	6.96	10.55	17.51	-4.06	2.9	33.2	NA	15.69	NA	PASS
10620_1	80MHz	5985	LPI	6.36	11.98	18.34	-5.57	0.79		5	NA	4.21	PASS
	80MHz	5985	SP	6.36	14.1	20.46	-3.43	2.93	27.9	NA	7.44	NA	PASS
	80MHz	6385	SP	6.36	12.83	19.19	-5.14	1.22	33.1	NA	13.91	NA	PASS
10621_1	160MHz	6025	LPI	6.96	7.25	14.21	-10.93	-3.97		5	NA	8.97	PASS
	160MHz	6345	SP	6.96	14.63	21.59	-2.76	4.2	31.4	NA	9.81	NA	PASS
	160MHz	6185	SP	6.96	12.52	19.48	-4.68	2.28	32.3	NA	12.82	NA	PASS
10622_1	20MHz	6135	LPI	6.36	8.64	15	-3.26	3.1	NA	5	NA	1.90	PASS
	20MHz	6135	LPI	6.36	8.58	14.94	-3.34	3.02	NA	5	NA	1.98	PASS
10623_1	20MHz	6775	LPI	5.14	8.88	14.02	-3.03	2.11	NA	5	NA	2.89	PASS
	20MHz	5975	SP	6.36	6.8	13.16	-4.82	1.54	34.0	NA	20.84	NA	PASS
	20MHz	5975	LPI	6.36	8.8	15.16	-3.01	3.35	NA	5	NA	1.65	PASS
10624_1	20MHz	6055	LPI	6.36	8.79	15.15	-3.15	3.21	NA	5	NA	1.79	PASS
	20MHz	6775	SP	5.14	13.22	18.36	1.33	6.47	36.0	NA	17.64	NA	PASS
	20MHz	6775	LPI	5.14	8.96	14.1	-2.97	2.17	NA	5	NA	2.83	PASS

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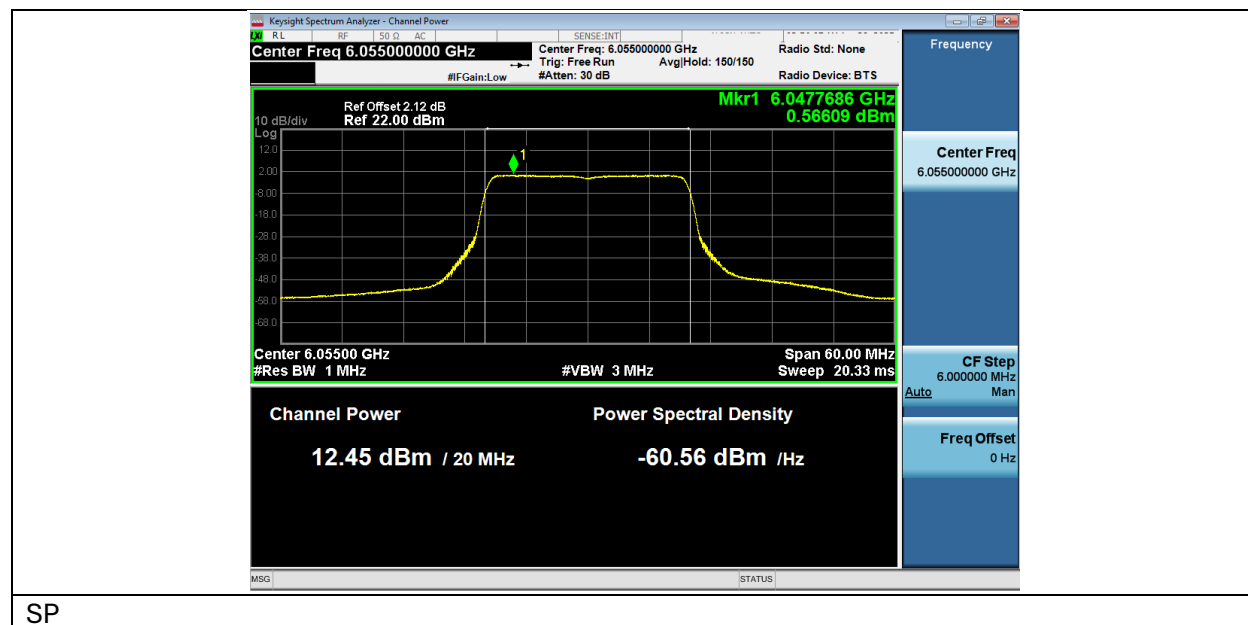
Maximum Conducted Output Power & PSD - Plots

7dBi Antenna Gain Results

Test Case 20MHz_10618_1

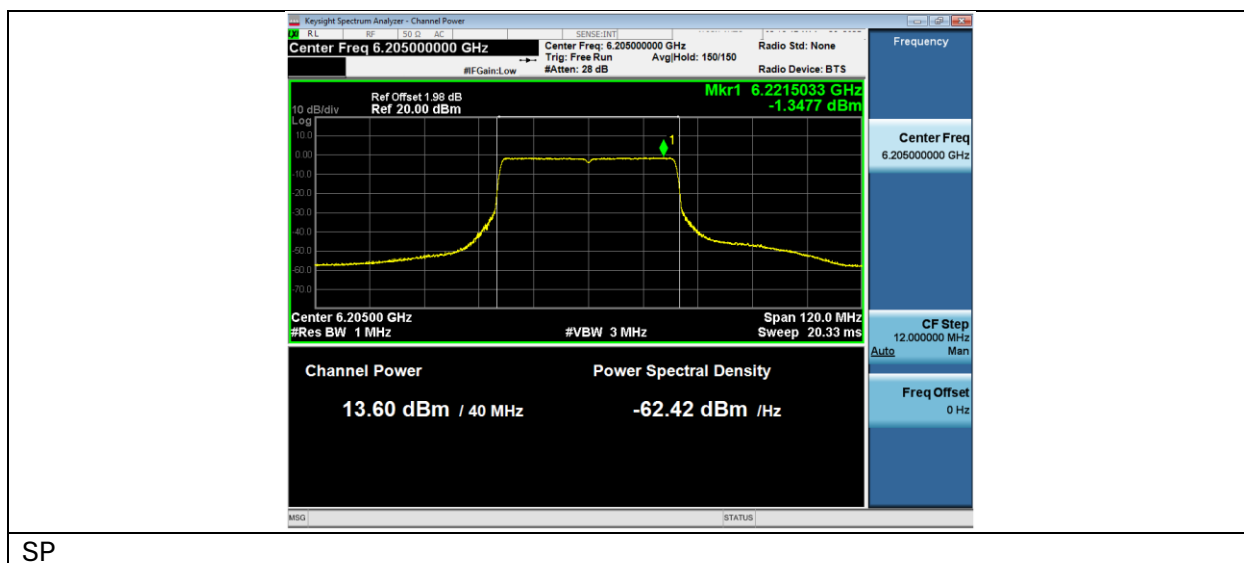
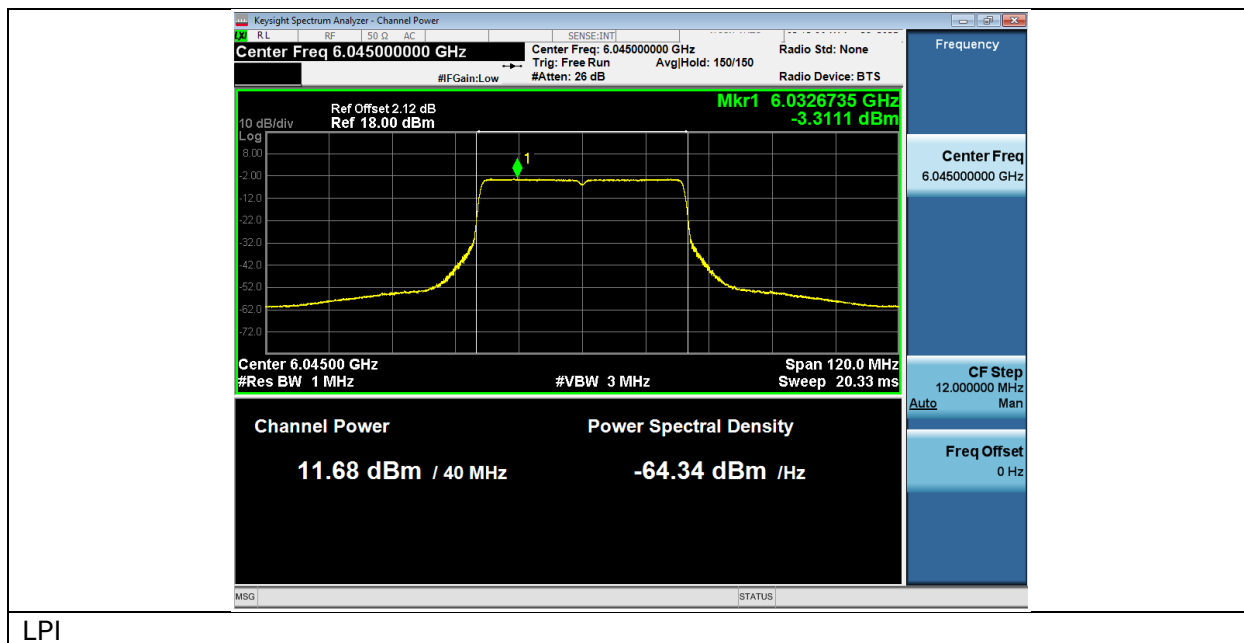


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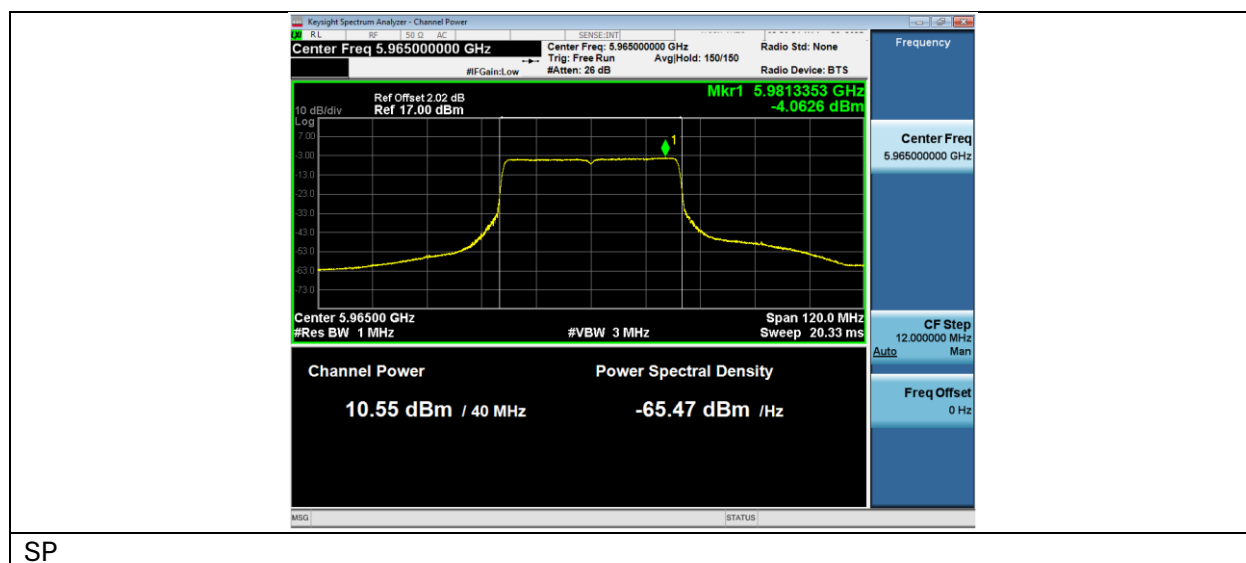


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Test Case 40MHz_10619_1

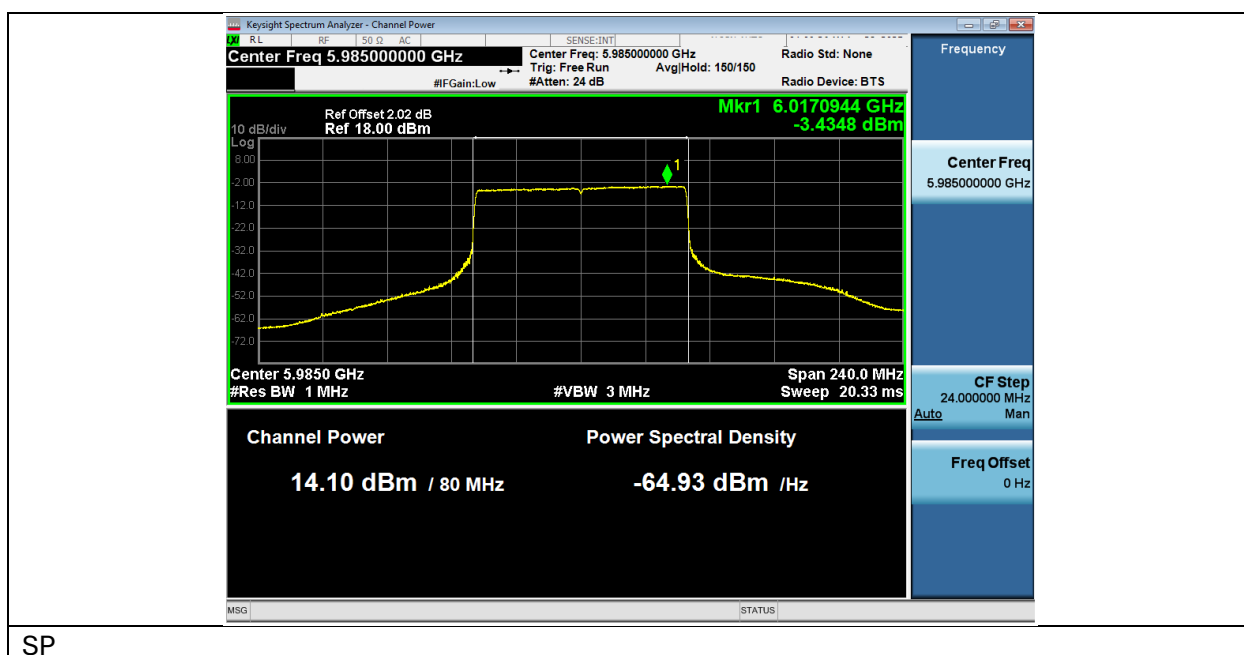
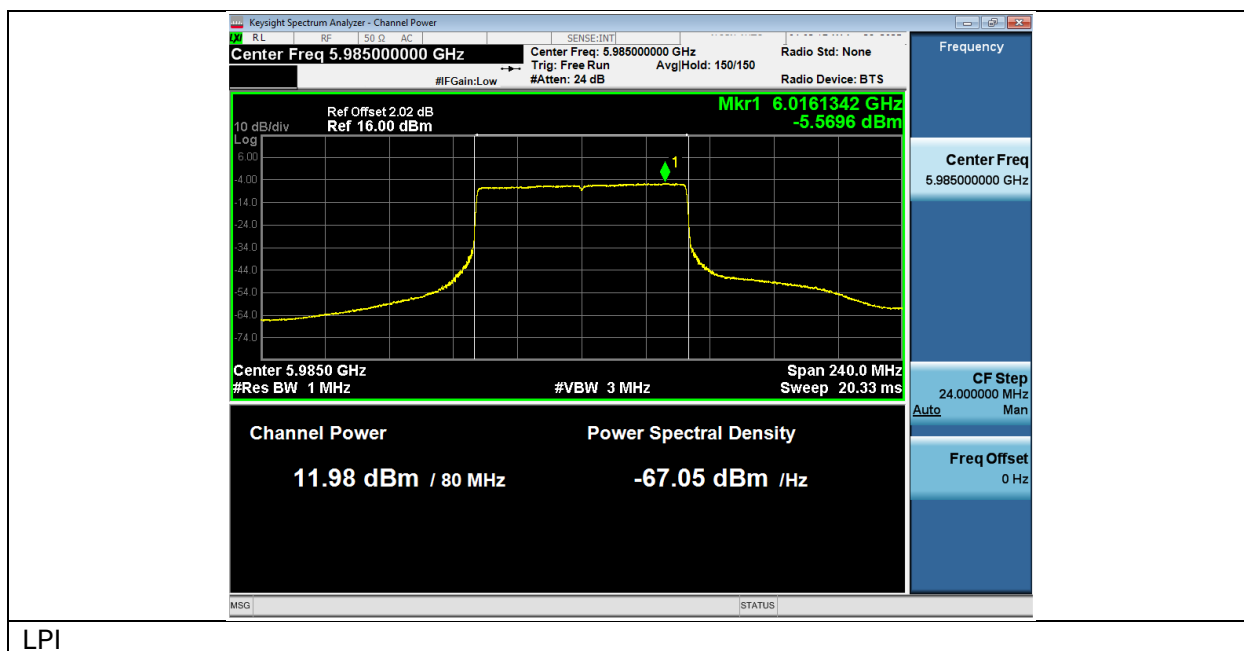


Radio Test Report No: **EDCS - 25779349**

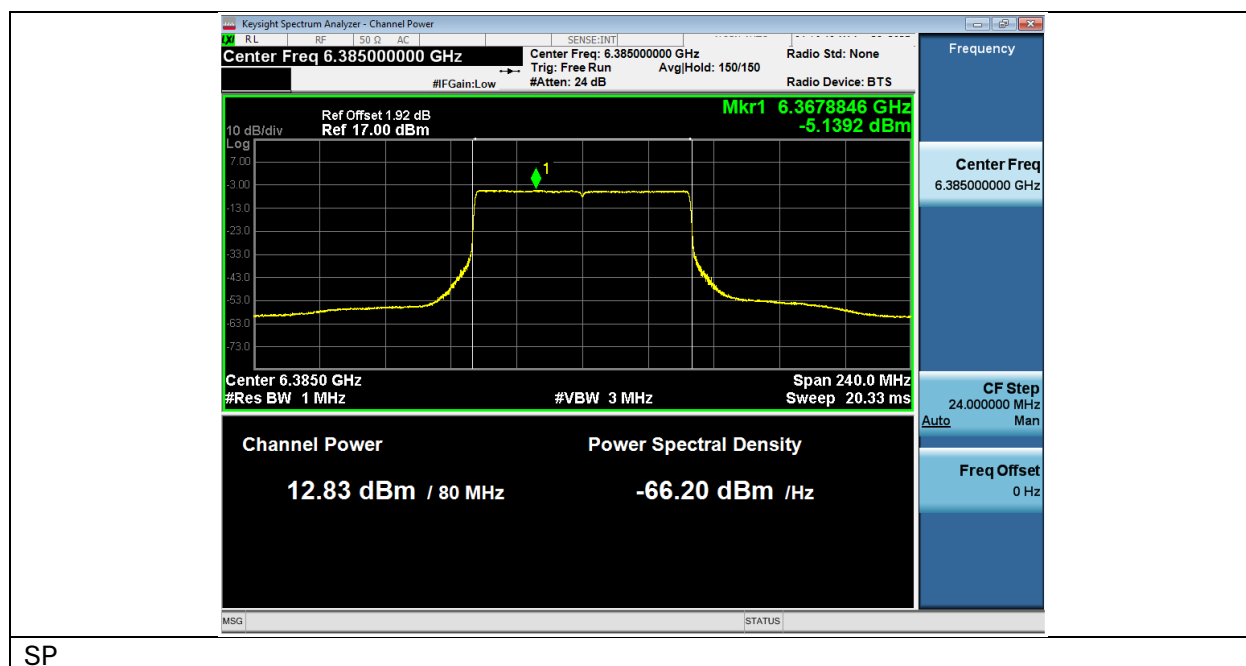


Radio Test Report No: **EDCS - 25779349**

Test Case 80MHz_10620_1

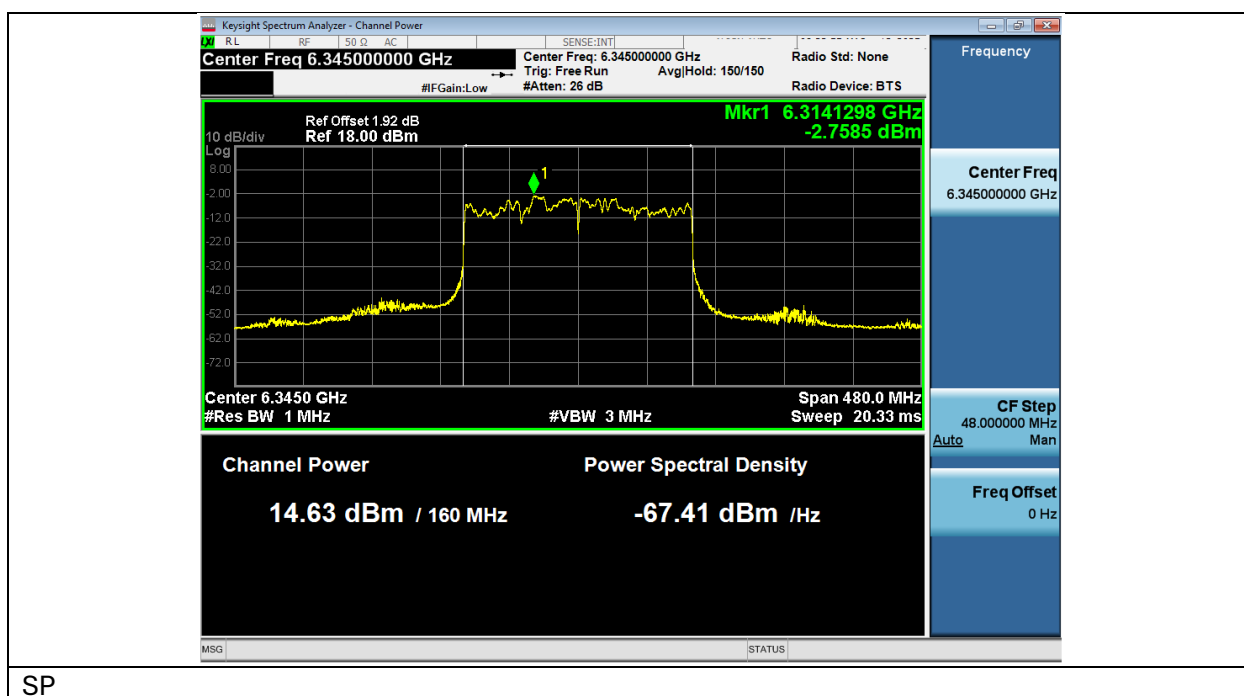
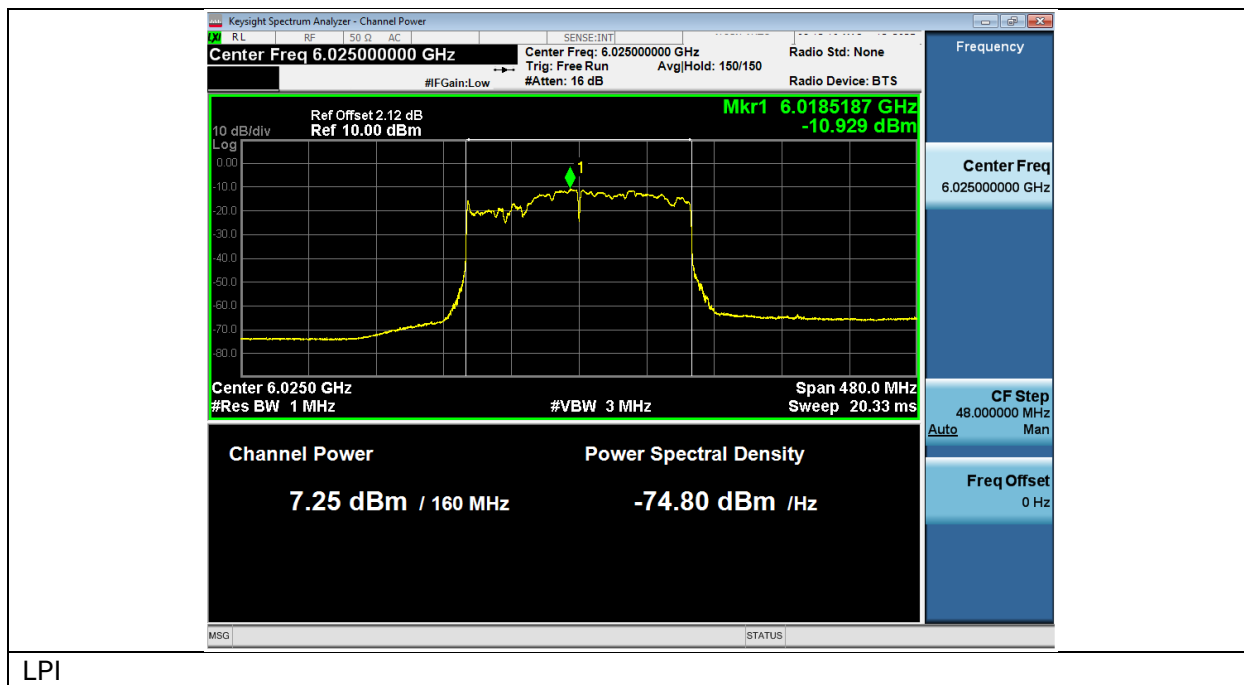


Radio Test Report No: **EDCS - 25779349**

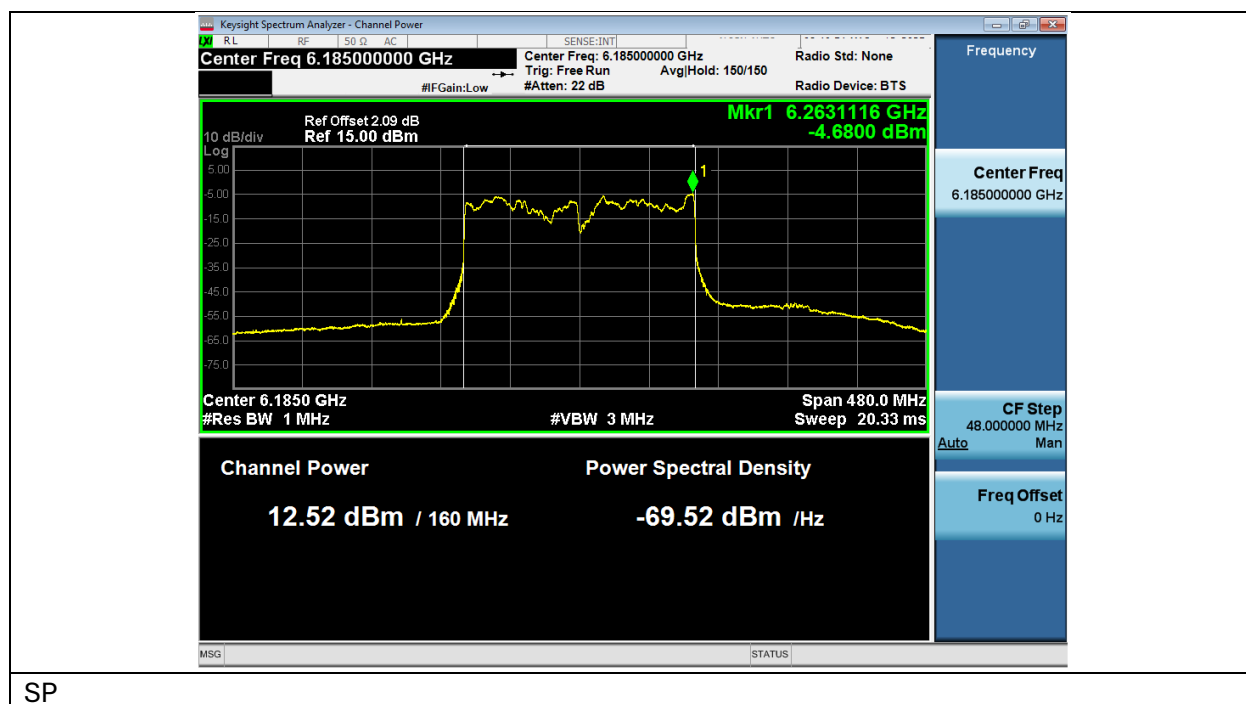


Radio Test Report No: **EDCS - 25779349**

Test Case 160MHz_10621_1



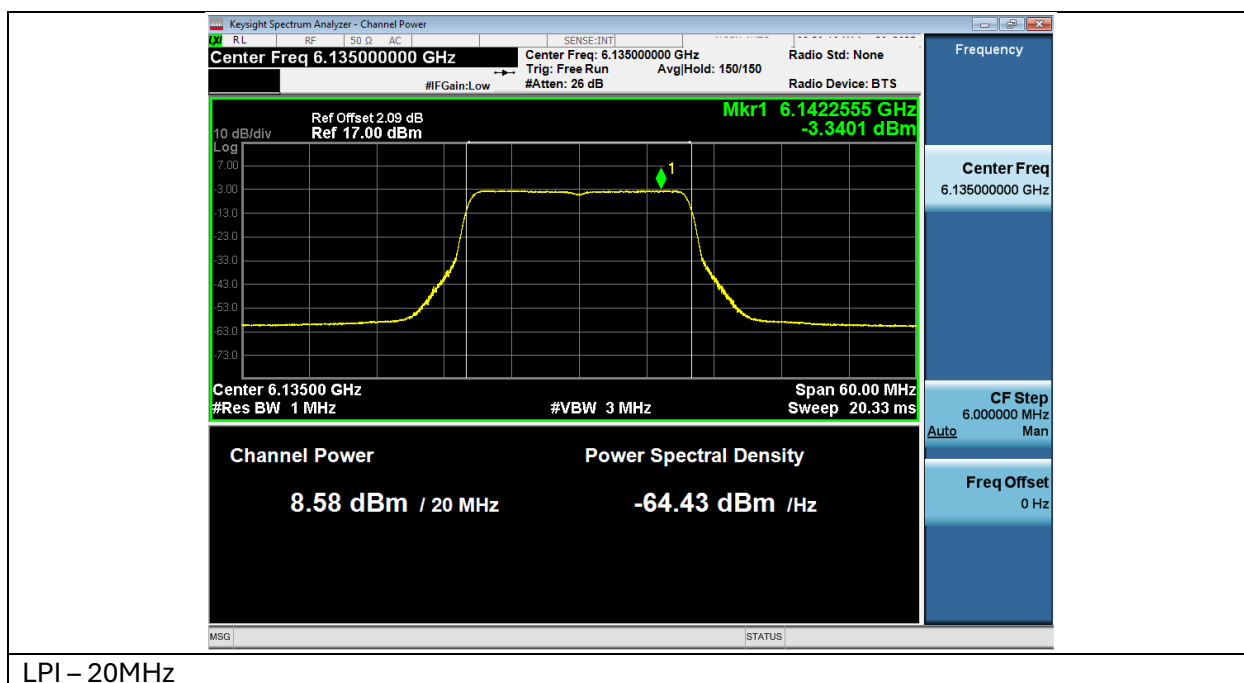
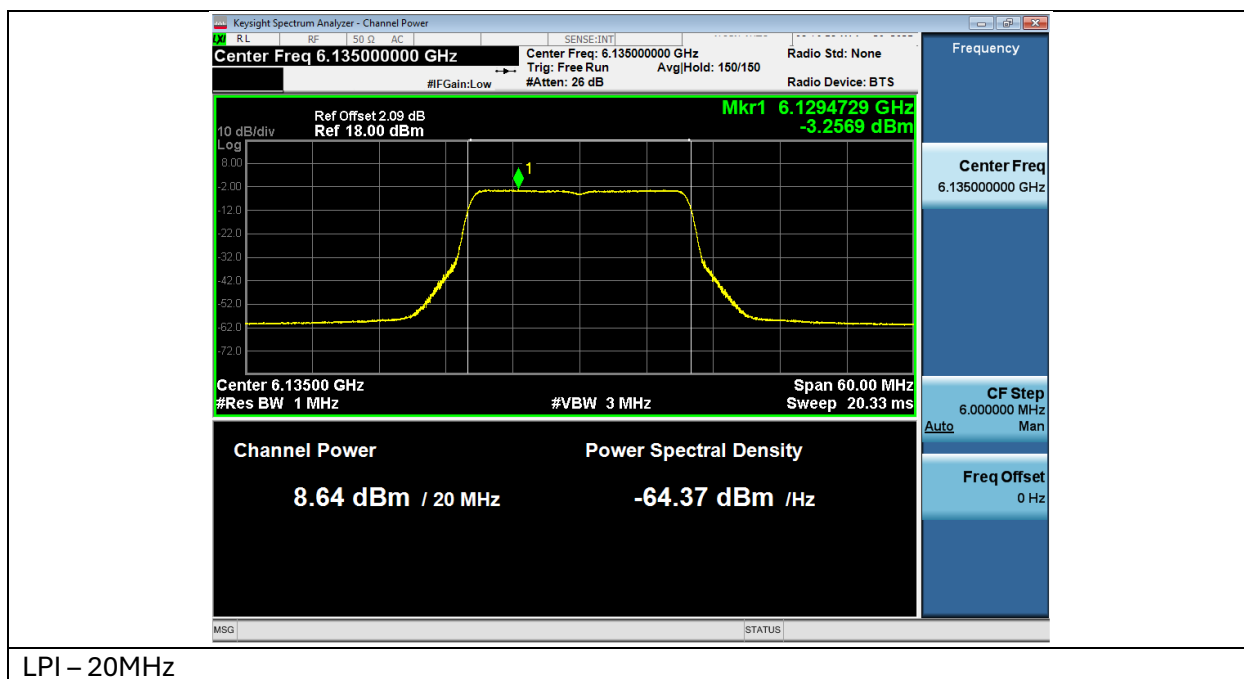
Radio Test Report No: **EDCS - 25779349**



SP

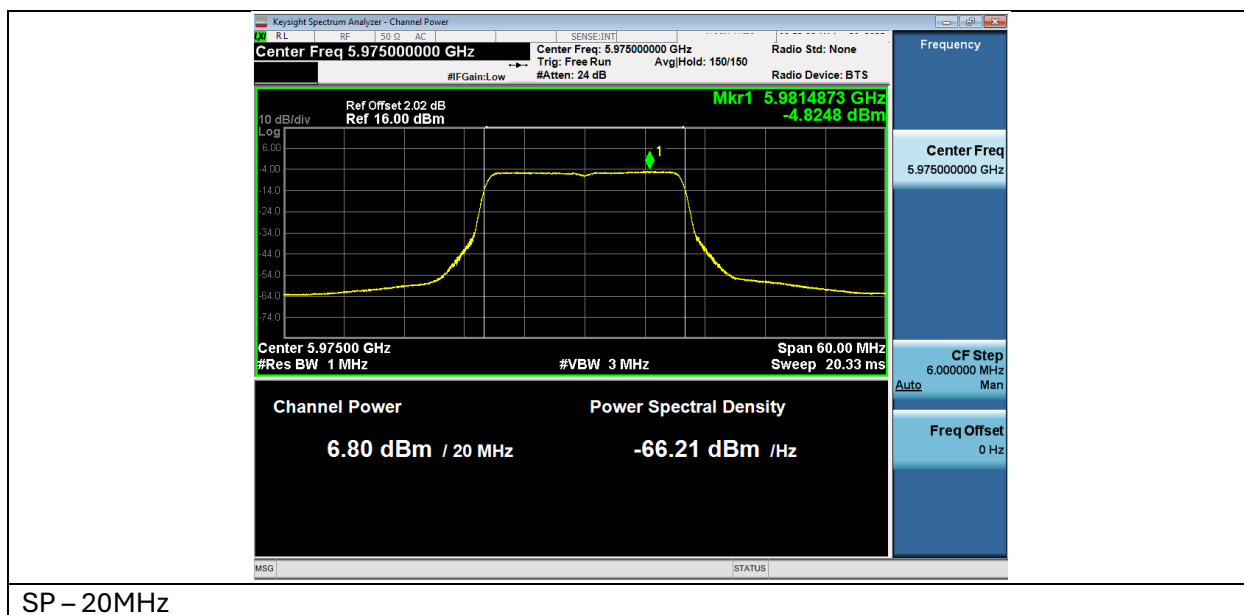
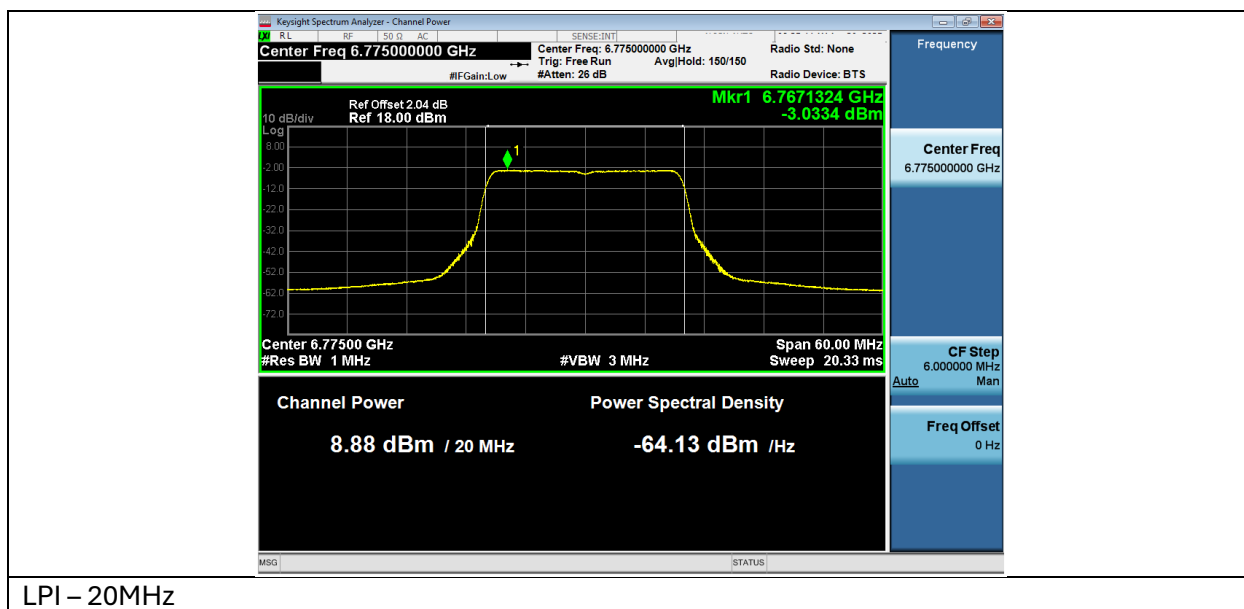
Radio Test Report No: **EDCS - 25779349**

Test Case 10622_1

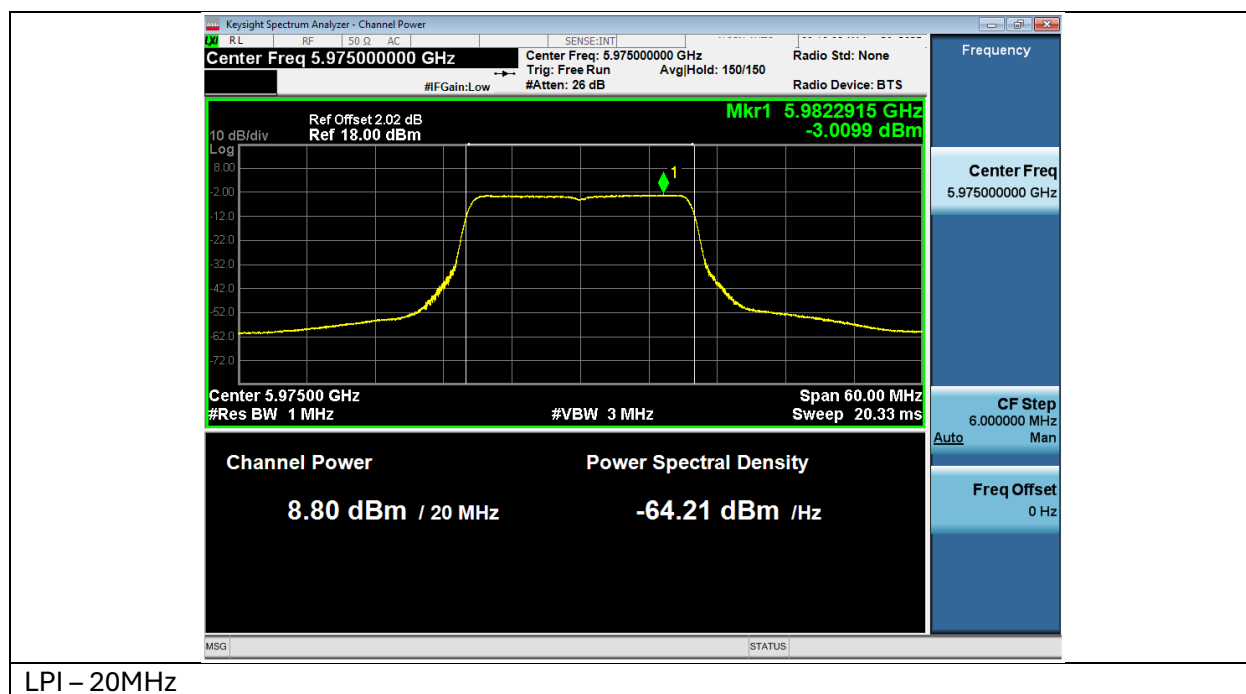


Radio Test Report No: **EDCS - 25779349**

Test Case 10623_1

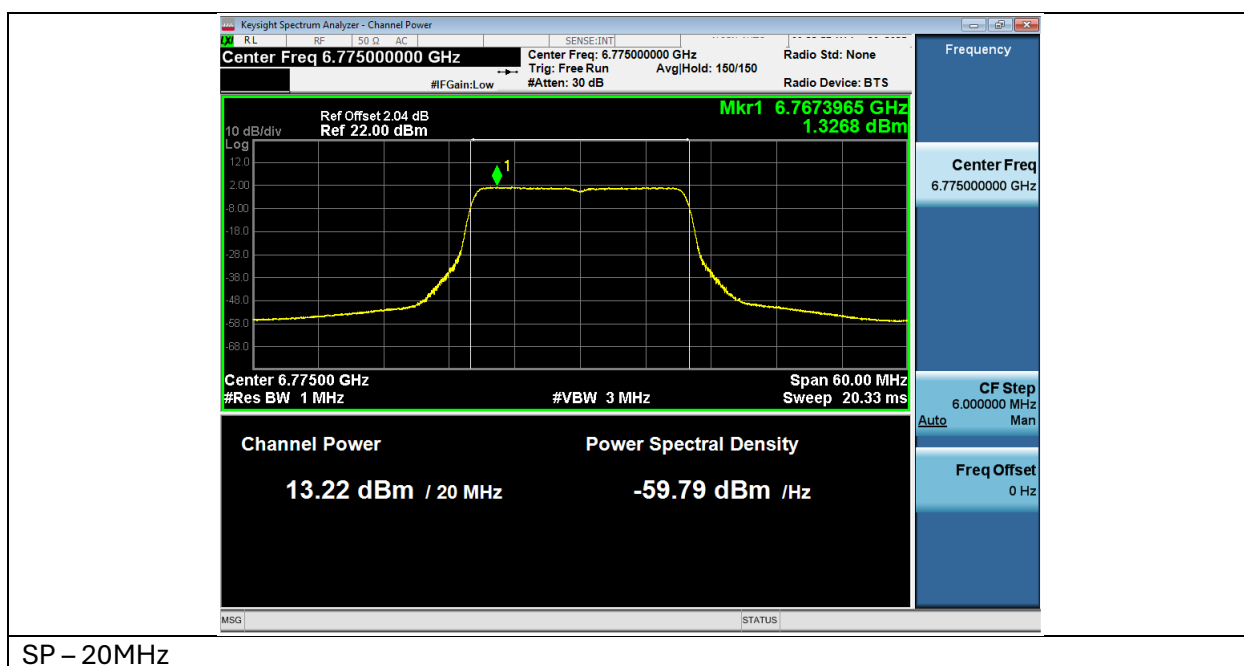


Radio Test Report No: **EDCS - 25779349**

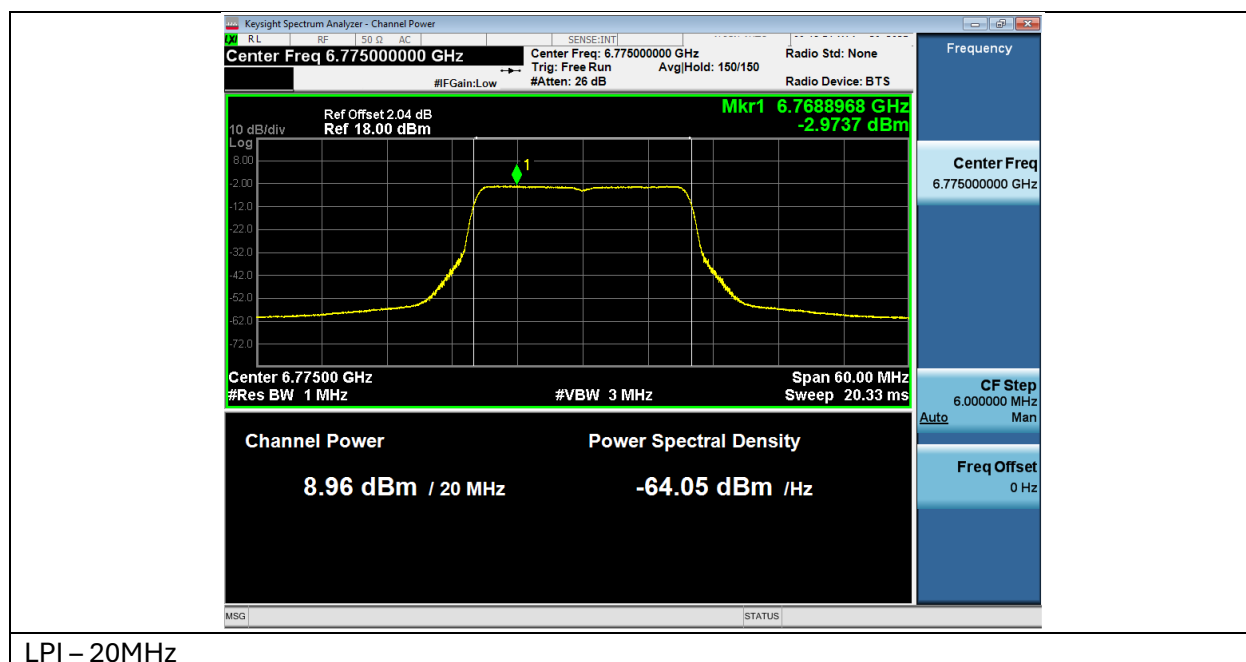


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Test Case 10624_1



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B.3 Power Spectral Density

Power Spectral Density Test Requirement

FCC 15.407(a):

(4) For a standard power access point and fixed client device operating in the 5.925–6.425 GHz and 6.525–6.875 GHz bands, the maximum power spectral density must not exceed 23 dBm e.i.r.p in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(5) For an indoor access point operating in the 5.925–7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.

(6) For a subordinate device operating under the control of an indoor access point in the 5.925–7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.

(7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925–6.425 GHz and 6.525–6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

(8) For client devices operating under the control of an indoor access point in the 5.925–7.125 GHz bands, the maximum power spectral density must not exceed –1 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

(11) The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

(12) Power spectral density measurement: The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725–5.895 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in all other bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Power Spectral Density Test Procedure

Ref. KDB 987594, KDB 789033 D02 General UNII Test Procedures New Rules v02r01

F. Maximum Power Spectral Density (PSD)

Power Spectral Density Test Procedure
The rules require “maximum power spectral density” measurements where the intent is to measure the maximum value of the time average of the power spectral density measured during a period of continuous transmission. 1. Create an average power spectrum for the EUT operating mode being tested by following the instructions in section II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, “Compute power...”. (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.) 2. Use the peak search function on the instrument to find the peak of the spectrum and record its value.

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3. Make the following adjustments to the peak value of the spectrum, if applicable: a) If Method SA-2 or SA-2 Alternative was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum.
- b) If Method SA-3 Alternative was used and the linear mode was used in step II.E.2.g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
4. The result is the Maximum PSD over 1 MHz reference bandwidth.

Ref. KDB 789033 D02 General UNII Test Procedures New Rules v02r01

2. Measurement using a Spectrum Analyzer or EMI Receiver (SA), (d) Method SA-2

Power Spectral Density

Test parameters

Method SA-2 (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- (i) Measure the duty cycle, x , of the transmitter output signal as described in section II.B.
- (ii) Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (iii) Set RBW = 1 MHz.
- (iv) Set VBW $\geq$ 3 MHz.
- (v) Number of points in sweep $\geq$ 2 Span / RBW. (This ensures that bin-to-bin spacing is $\leq$ RBW/2, so that narrowband signals are not lost between frequency bins.)
- (vi) Sweep time = auto.
- (vii) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- (viii) Do not use sweep triggering. Allow the sweep to "free run".
- (ix) Trace average at least 100 traces in power averaging (i.e., RMS) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
- (x) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth)

F. Maximum Power Spectral Density (PSD)

2. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
3. Make the following adjustments to the peak value of the spectrum, if applicable: a) If Method SA-2 or SA-2 Alternative was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum.

The "measure-and-sum technique" is used for measuring in-band transmit power of a device. In the measure-and-sum approach, the conducted emission level is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in linear power units. ANSI C63.10 section 14.3.2.2

Tested By: Johanna Knudsen	Date of testing: 08/26/2025 – 09/11/2025
Test Result: PASS	

Test Equipment

See Appendix C for list of test equipment.

Power Spectral Density Data Table

See Power section, Appendix B.2

Appendix C: List of Test Equipment Used to perform the test

AFC Testing completed 8/26/2025 to 8/29/2025				
Equip#	Manufacturer/ Model	Description	Last Cal	Next Due
55980	Keysight (Agilent/HP) / N9020A-508	MXA Signal Analyzer, 10Hz-8.4GHz	06 Sep 2024	06 Sep 2025
47284	HUBER + SUHNER / Sucoflex 102E	40GHz Cable K Connector	22 May 2025	22 May 2026
58256	COMET / T7611-4	WEB SENSOR FOR REMOTE THERMOMETER HYGROMETER	27 Feb 2025	27 Feb 2026
56328	PASTERNAK / PE5019-1	Torque Wrench	16 Apr 2025	16 Apr 2026
42627	Pasternack / PE6072	SMA 50 Ohm Termination	04 Feb 2025	04 Feb 2026
42628	Pasternack / PE6072	SMA 50 Ohm Termination	25 Mar 2025	25 Mar 2026
56112	Pasternack / PE6072	SMA 50 Ohm Termination	25 Mar 2025	25 Mar 2026

AFC Testing completed 9/11/2025				
Equip#	Manufacturer/ Model	Description	Last Cal	Next Due
55980	Keysight (Agilent/HP) / N9020A-508	MXA Signal Analyzer, 10Hz-8.4GHz	09 Sep 2025	09 Sep 2026
47284	HUBER + SUHNER / Sucoflex 102E	40GHz Cable K Connector	22 May 2025	22 May 2026
58256	COMET / T7611-4	WEB SENSOR FOR REMOTE THERMOMETER HYGROMETER	27 Feb 2025	27 Feb 2026
56328	PASTERNAK / PE5019-1	Torque Wrench	16 Apr 2025	16 Apr 2026
42627	Pasternack / PE6072	SMA 50 Ohm Termination	04 Feb 2025	04 Feb 2026
42628	Pasternack / PE6072	SMA 50 Ohm Termination	25 Mar 2025	25 Mar 2026
56112	Pasternack / PE6072	SMA 50 Ohm Termination	25 Mar 2025	25 Mar 2026

Appendix D: Abbreviation Key and Definitions

The following table defines abbreviations used within this test report.

Abbreviation	Description	Abbreviation	Description
EMC	Electro Magnetic Compatibility	°F	Degrees Fahrenheit
EMI	Electro Magnetic Interference	°C	Degrees Celsius
EUT	Equipment Under Test	Temp	Temperature
ITE	Information Technology Equipment	S/N	Serial Number
TAP	Test Assessment Schedule	Qty	Quantity
ESD	Electro Static Discharge	emf	Electromotive force
EFT	Electric Fast Transient	RMS	Root mean square
EDCS	Engineering Document Control System	Qp	Quasi Peak
Config	Configuration	Av	Average
CIS#	Cisco Number (unique identification number for Cisco test equipment)	Pk	Peak
Cal	Calibration	kHz	Kilohertz (1×10^3)
EN	European Norm	MHz	MegaHertz (1×10^6)
IEC	International Electro technical Commission	GHz	Gigahertz (1×10^9)
CISPR	International Special Committee on Radio Interference	H	Horizontal
CDN	Coupling/Decoupling Network	V	Vertical
LISN	Line Impedance Stabilization Network	dB	decibel
PE	Protective Earth	V	Volt
GND	Ground	kV	Kilovolt (1×10^3)
L1	Line 1	μ V	Microvolt (1×10^{-6})
L2	Line2	A	Amp
L3	Line 3	μ A	Micro Amp (1×10^{-6})
DC	Direct Current	mS	Milli Second (1×10^{-3})
RAW	Uncorrected measurement value, as indicated by the measuring device	μ S	Micro Second (1×10^{-6})
RF	Radio Frequency	μ S	Micro Second (1×10^{-6})
SLCE	Signal Line Conducted Emissions	m	Meter
Meas dist	Measurement distance	Spec dist	Specification distance
N/A or NA	Not Applicable	SL	Signal Line (or Telecom Line)
P	Power Line	L	Live Line
N	Neutral Line	R	Return
S	Supply	AC	Alternating Current

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Appendix E: Photographs of Test Setups

Please see AFC Photo Exhibit (EDCS# 25715399).

Appendix F: Software Used to Perform Testing

Cisco CC RF Operability Suite Main version 12

Test harness Version: AFC DUT Test Harness Version 2.0.65.184

Appendix G: Test Procedures

Measurements were made in accordance with:

- KDB 987694
 - 987594 D01 U-NII 6GHz General Requirements v03r01
 - 987594 D02 U-NII 6 GHz EMC Measurement v03
 - 987594 D03 U-NII 6 GHz QA v03r04
 - 987594 D04 UN6GHZ Pre-Approval Guidance Checklist v03
 - 987594 D05 AFC DUT Test Harness Testing v01r01
-
- KDB 789033
 - 789033 D02 General UNII Test Procedures New Rules v02r01
- KDB 662911 - MIMO
- ANSI C63.4 2014 Unintentional Radiators
- ANSI C63.10 2013 Intentional Radiators

Test procedures are summarized below:

FCC 6GHz Test Procedures	EDCS # 23507622
FCC 6GHz AFC Test Procedures	EDCS # 24173795
FCC 5GHz Test Procedures	EDCS # 1445048

Appendix H: Scope of Accreditation (A2LA certificate number 1178-01)

The scope of accreditation of Cisco Systems, Inc. can be found on the A2LA web page at:

<http://www.a2la.org/scopepdf/1178-01.pdf>

Appendix I: Test Assessment Plan

Compliance Test Plan EDCS# 25779411

Target Power Tables EDCS# 25469880