



AFC DUT TEST HARNESS REPORT

FCC ID : LDKIW9167EH
Equipment : Cisco Catalyst IW9167E Heavy Duty Access Point
Brand Name : CISCO
Model Name : IW9167EH-B, IW9167EH-ROW
Applicant : Cisco Systems Inc
125 West Tasman Drive San Jose California United States 95134-1706
Manufacturer : Cisco Systems Inc
125 West Tasman Drive San Jose California United States 95134-1706
Standard : 47 CFR FCC Part 15.407

The product was received on Oct. 25, 2023, and testing was started from Nov. 02, 2023 and completed on May 20, 2024. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in AFC Device (AFC DUT) Compliance Test Plan Version 1.5 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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



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Appendix A. Tools Report

Appendix B. DUT Spectrum Inquiry Request/Response Logs

Appendix C. RF Measurement Plots

Photographs of EUT v01



Summary of Test Result

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



Conformity Assessment Condition:

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

Disclaimer:

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

Reviewed by: Sam Chen

Report Producer: Wendy Pan



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature of Equipment Under Test	
Power Type	From PoE / Power adapter / DC 48V
EUT Type	<input checked="" type="checkbox"/> Standard Power Access Point with Proxy <input type="checkbox"/> Standard Power Access Point without Proxy <input type="checkbox"/> Fixed Client with Proxy <input type="checkbox"/> Fixed Client without Proxy
Bandwidth (MHz)	20 / 40 / 80 /160
Condition of EUT	<input type="checkbox"/> Indoor <input checked="" type="checkbox"/> Outdoor
Professional Installation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Firmware Version	For Antenna set 20: QC_IMAGE_VERSION_STRING=WLAN.HK.2.7-04674-QCAHKSUPL_SILICONZ-1 For Antenna set 22: QC_IMAGE_VERSION_STRING=WLAN.HK.2.7-04674-QCAHKSUPL_SILICONZ-1
Software Version	For Antenna set 20: 17.14.0.26 For Antenna set 22: 17.15.0.59
Hardware Version	For Antenna set 20: N/A For Antenna set 22: A0
Proxy Firmware Version	For Antenna set 20: ROM: 16.12(3r) For Antenna set 22: ROM: 16.12(3r)
Proxy Software Version	For Antenna set 20: Cisco IOS Software [IOSXE], C9800 Software (C9800_IOSXE-K9), Experimental Version 17.14.20231005:013055 For Antenna set 22: 7.15.0.59
Proxy Hardware Version	For Antenna set 20: N/A For Antenna set 22: N/A
Supported Software Product IDs	IW9167EH-B - Industrial Wireless 9167 AP IW9167EH-B-AP - Wi-Fi mode IW9167EH-B-URWB - URWB mode IW9167EH-B-WGB - WGB mode IW9167EH-ROW - Industrial Wireless 9167 AP IW9167EH-ROW-AP - Wi-Fi mode IW9167EH-ROW-URWB - URWB mode IW9167EH-ROW-WGB - WGB mode

Note: The above information was declared by manufacturer.



1.2 Antenna Information

Set.	CISCO's Brand Name	CISCO's Model Name	Antenna Type	Connector	Gain (dBi)
	Manufacturer's Brand Name	Manufacturer's Model Name			
1	CISCO	AIR-ANT2480V-N=	Dipole	N Male	Note 1
	CUSHCRAFT	S2406BFCNM			
2	CISCO	AIR-ANT2413P2M-N=	Panel	N Male	
	PCTEL	07-1193-01			
3	CISCO	IW-ANT-OMM-53-N=	Monopole	N Female	
	MP Antenna	08-ANT-0985			
4	CISCO	AIR-ANT5180V-N=	Dipole	N Male	
	Laird TECHNOLOGES	S4905WBCFNM			
5	CISCO	IW-ANT-PNL-59-N=	Panel	SMA Female	
	HUBER+SUHNER	1356.17.0076			
6	CISCO	IW-ANT-H90-510-N=	Horn	N Female	
	RF ELEMENTS	HG3-CC-S90			
7	CISCO	AIR-ANT5114P2M-N=	Panel	N Male	
	PCTEL	07-1192-01			
8	CISCO	IW-ANT-SKD-513-Q=	Patch	QMA Female	
	PCTEL	74-133202-01			
9	CISCO	IW-ANT-SKS-514-Q=	Patch	QMA Female	
	PCTEL	74-133201-01			
10	CISCO	FLMESH-HW-ANT-28	Panel	N Female	
	HUBER+SUHNER	1356.17.0023			
11	CISCO	AIR-ANT2547V-N=	Dipole	N Male	
	Laird TECHNOLOGES	OC24527-CS1			
12	CISCO	AIR-ANT2547VG-N=	Dipole	N Male	
	Laird TECHNOLOGES	OC24528-CS3			
13	CISCO	AIR-ANT2547VG-NS=	Dipole	N Male	
	Laird Connectivity	OC24528-CS4			
14	CISCO	AIR-ANT2568VG-N=	Dipole	N Male	
	Laird Connectivity	OCX24529-CS1			
15	CISCO	AIR-ANT2568VG-NS=	Dipole	N Male	
	Laird Connectivity	OCX24529-CS2			
16	CISCO	AIR-ANT2588P4M-NS=	Patch	N Female	
	Laird Connectivity	PDM24499-CS1			
17	CISCO	AIR-ANT2513P4M-N=	Patch	N Female	
	Laird Connectivity	PDM245115H-CS1			
18	CISCO	AIR-ANT2513P4M-NS=	Patch	N Female	
	Laird Connectivity	PDM245115H-CS2			
19	CISCO	IW-ANT-OMV-2567-N	Dipole	N Male	
	TE connectivity	OCX24688-CS1			
20	CISCO	IW-ANT-OMH-2567-N	Dipole	N Male	
	TE connectivity	OCX24688H-CS1			
21	CISCO	ANT-GNSS-OUT-TNC=	Patch	TNC Male	
	Pulse	W4053T4572			
22	CISCO	IW-ANT-PNL-515-N=	Panel	N Female	
	Amphenol SAA	IW-ANT-PNL-515-N			
23	CISCO	IW-ANT-OMV-55-N	Dipole	N Female	
24	CISCO	IW-ANT-OMH-55-N	Dipole	N Female	
25	PCTEL	IW-ANT-PNL25610-R=	Sector	RP-TNC female	



Set.	Port								
	WLAN 2.4GHz (Radio 1)	4.9GHz / 5GHz (Radio 1)	4.9GHz / 5GHz (Radio 2)	WLAN 6GHz (Radio 2)	WLAN 2.4GHz (Scanning Radio 3)	WLAN 5GHz (Scanning Radio 3)	WLAN 6GHz (Scanning Radio 3)	BT (Radio 4)	GPS (Radio 5)
1	-	-	-	-	-	-	-	-	-
2	1	-	-	-	1	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	1	-
3	-	4	1	-	-	2	-	-	-
	-	3	2	-	-	1	-	-	-
	-	2	3	-	-	-	-	-	-
	-	1	4	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	
5	-	-	-	-	-	-	-	-	
6	-	-	-	-	-	-	-	-	
7	-	-	-	-	-	-	-	-	
8	-	-	-	-	-	-	-	-	
9	-	4	1	-	-	-	-	-	-
	-	3	2	-	-	-	-	-	-
	-	2	3	-	-	-	-	-	-
	-	1	4	-	-	-	-	-	-
10	-	4	1	-	-	2	-	-	-
	-	3	2	-	-	1	-	-	-
	-	2	3	-	-	-	-	-	-
	-	1	4	-	-	-	-	-	-
11	1	-	-	-	1	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	1	-
12	-	-	-	-	-	-	-	-	
13	-	-	-	-	-	-	-	-	
14	-	-	-	-	-	-	-	-	
15	-	-	-	-	-	-	-	-	
16	-	-	-	-	-	-	-	-	
17	-	-	-	-	-	-	-	-	
18	-	-	-	-	-	-	-	-	
19	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
20	-	-	-	1	-	-	-	-	-
	-	-	-	2	-	-	1	-	-
	-	-	-	3	-	-	-	-	-
	-	-	-	4	-	-	-	-	-
21	-	-	-	-	-	-	-	1	
22	-	-	-	1	-	-	-	-	-
	-	-	-	2	-	-	1	-	-
	-	-	-	3	-	-	-	-	-
	-	-	-	4	-	-	-	-	-
23	-	-	-	-	-	-	-	-	
24	-	-	-	-	-	-	-	-	
25	-	-	-	-	1	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-



Note 1:

Set	Antenna Gain (dBi)					Cable loss (dB)					Net Gain (dBi)				
	WLAN 2.4GHz (Radio 1) (Scanning Radio 3) BT (Radio 4)	5GHz (Radio 1) (Radio 2) (Scanning Radio 3)		6GHz (Radio 2) (Scanning Radio 3)	GPS (Radio 5)	WLAN 2.4GHz (Radio 1) (Scanning Radio 3) BT (Radio 4)	5GHz (Radio 1) (Radio 2) (Scanning Radio 3)		6GHz (Radio 2) (Scanning Radio 3)	GPS (Radio 5)	WLAN 2.4GHz (Radio 1) (Scanning Radio 3) BT (Radio 4)	5GHz (Radio 1) (Radio 2) (Scanning Radio 3)		6GHz (Radio 2) (Scanning Radio 3)	GPS (Radio 5)
	2.4G / Bluetooth	UNII 1-3	4.9G	UNII 5, UNII 7	-	2.4G / Bluetooth	UNII 1-3	4.9G	UNII 5, UNII 7	-	2.4G / Bluetooth	UNII 1-3	4.9G	UNII 5, UNII 7	-
1	8	-	-	-	-	-	-	-	-	-	8	-	-	-	-
2	13	-	-	-	-	-	-	-	-	-	13	-	-	-	-
3	-	3	3	-	-	-	-	-	-	-	-	3	3	-	-
4	-	8	7	-	-	-	-	-	-	-	-	8	7	-	-
5	-	9	-	-	-	-	0.97	-	-	-	-	8.03	-	-	-
6	-	10	-	-	-	-	0.97	-	-	-	-	9.03	-	-	-
7	-	13	-	-	-	-	-	-	-	-	-	13	-	-	-
8	-	13	13	-	-	-	0.97	0.97	-	-	-	12.09	12.03	-	-
9	-	14	14	-	-	-	0.97	0.97	-	-	-	13.03	13.03	-	-
10	-	19.5	-	-	-	-	0.97	-	-	-	-	18.53	-	-	-
11	4	7	-	-	-	-	-	-	-	-	4	7	-	-	-
12	4	7	-	-	-	-	-	-	-	-	4	7	-	-	-
13	4	7	-	-	-	-	-	-	-	-	4	7	-	-	-
14	6	8	-	-	-	-	-	-	-	-	6	8	-	-	-
15	6	8	-	-	-	-	-	-	-	-	6	8	-	-	-
16	Vertical: 9.1 Horizontal: 7.1	Vertical: 9.6 Horizontal: 7.8	-	-	-	0.62	0.97	-	-	-	Vertical: 8.48 Horizontal: 6.48	Vertical: 8.63 Horizontal: 6.83	-	-	-
17	13	13	-	-	-	0.62	0.97	-	-	-	12.38	12.03	-	-	-
18	13	13	-	-	-	0.62	0.97	-	-	-	12.38	12.03	-	-	-
19	4	7	7	7	-	-	-	-	-	-	4	7	7	7	-
20	4	7	7	7	-	-	-	-	-	-	4	7	7	7	-
21	-	-	-	-	2.5	-	-	-	-	-	-	-	-	-	2.5
22	-	15	15	15	-	-	2.05	2	2.12	-	-	12.95	13	12.88	-
23	-	5	-	-	-	-	-	-	-	-	-	5	-	-	-
24	-	5	-	-	-	-	-	-	-	-	-	5	-	-	-
25	9	9	-	10	-	0.35	0.65	-	0.75	-	8.65	8.35	-	9.25	-



Set.	Point-to-Multipoint	Point-to-Point
1	Yes	No
2	Yes	Yes
3	Yes	No
4	Yes	No
5	Yes	Yes
6	Yes	Yes
7	Yes	Yes
8	Yes	Yes
9	Yes	Yes
10	Yes	Yes
11	Yes	No
12	Yes	No
13	Yes	No
14	Yes	No
15	Yes	No
16	Yes	No
17	Yes	Yes
18	Yes	Yes
19	Yes	No
20	Yes	No
21	-	-
22	No	Yes
23	Yes	No
24	Yes	No
25	Yes	No

Note 2: The above information was declared by manufacturer.

Note 3: There are 25 set antennas in the antenna table list.

The lowest and highest antenna gain was selected for the test and recorded in this report.

The antennas were selected as below:

For WLAN 2.4GHz/BT: Set 2, 11.

For WLAN 5GHz: Set 3, 10.

For 4.9GHz: Set 3, 9.

For WLAN 6GHz: Set 20, 22.



Note 4: Directional gain information.

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

Ex.

Directional Gain (NSS1) formula :

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

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

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

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

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

Where ;

2.4G G1 = 4 dBi; G2 = 4 dBi; G3 = 4 dBi; G4 = 4 dBi;

2TDG = 7.01 dBi 4TDG = 10.02 dBi

2.4G G1 = 13 dBi; G2 = 13 dBi; G3 = 13 dBi; G4 = 13 dBi;

2TDG = 16.01 dBi 4TDG = 19.02 dBi

5G G1 = 3 dBi; G2 = 3 dBi; G3 = 3 dBi; G4 = 3 dBi;

2TDG = 6.01 dBi 4TDG = 9.02 dBi

5G G1 = 18.53 dBi; G2 = 18.53 dBi; G3 = 18.53 dBi; G4 = 18.53 dBi;

2TDG = 18.53 dBi 4TDG = 21.54 dBi

4.9G G1 = 3 dBi; G2 = 3 dBi; G3 = 3 dBi; G4 = 3 dBi;

2TDG = 6.01 dBi 4TDG = 9.02 dBi

4.9G G1 = 13.03 dBi; G2 = 13.03 dBi; G3 = 13.03 dBi; G4 = 13.03 dBi;

2TDG = 16.04 dBi 4TDG = 19.05 dBi

6E G1 = 7.0 dBi; G2 = 7.0 dBi; G3 = 7.0 dBi; G4 = 7.0 dBi;

2TDG = 10.01 dBi 4TDG = 13.02 dBi

6E G1 = 12.88 dBi; G2 = 12.88 dBi; G3 = 12.88 dBi; G4 = 12.88 dBi;

2TDG = 15.89 dBi 4TDG = 18.90 dBi



For Iron Radio 1

For 2.4GHz:

For IEEE 802.11b/g/n/VHT/ax mode (1TX, 2TX, 4TX/4RX):

1TX

Only Port 1 can be use as transmitting antenna.

2TX

Port 1, Port 2 can be use as transmitting antenna.

Port 1, Port 2 could transmitting simultaneously.

4TX

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.

4RX

Port 1, Port 2, Port 3, Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3, Port 4 could receive simultaneously.

For Iron 5GHz UNII 1~UNII 3 and 4.9GHz:

For IEEE 802.11a/n/ac/ax mode (1TX, 2TX, 4TX/4RX):

1TX

Only Port 1 can be use as transmitting antenna.

2TX

Port 1, Port 2 can be use as transmitting antenna.

Port 1, Port 2 could transmitting simultaneously.

4TX

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.

4RX

Port 1, Port 2, Port 3, Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3, Port 4 could receive simultaneously.

For Pine Radio 2

For 5GHz UNII 1~UNII 3 and 4.9GHz:

For IEEE 802.11a/n/ac/ax mode (1TX, 2TX, 4TX/4RX):

1TX

Only Port 1 can be use as transmitting antenna.

2TX

Port 1, Port 2 can be use as transmitting antenna.

Port 1, Port 2 could transmitting simultaneously.

4TX

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.

4RX

Port 1, Port 2, Port 3, Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3, Port 4 could receive simultaneously.



For 6GHz UNII 5, UNII 7:

For IEEE 802.11ax mode (1TX, 2TX, 4TX/4RX):

1TX

Only Port 1 can be use as transmitting antenna.

2TX

Port 1, Port 2 can be use as transmitting antenna.

Port 1, Port 2 could transmitting simultaneously.

4TX

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.

4RX

Port 1, Port 2, Port 3, Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3, Port 4 could receive simultaneously.

For Scanning Radio 3

For 2.4GHz:

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

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

For 5GHz UNII 1~UNII 3:

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

The EUT supports the antenna with TX and RX diversity functions.

Both port 1 and port 2 support transmit and receive functions, but only one of them will be used at one time.

The port 1 generated the worst case, so it was selected to test and record in the report.

For 6GHz UNII 5, UNII 7:

For IEEE 802.11ax mode (1RX):

1RX

Only Port 1 can be use as receiving antenna.

For Radio 4

Bluetooth (1TX/1RX):

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

For Radio 5

GPS (1RX):

Only Port 1 can be used as receiving antenna.



1.3 Table for Multiple Listing

Model Name	Description
IW9167EH-B	All the models are identical, the different model names served as marketing strategy.
IW9167EH-ROW	

Note 1: From the above models, model: IW9167EH-B was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

1.4 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: 281101 and 281101-01

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

Modifications	Performance Checking
<ol style="list-style-type: none"> Adding 6GHz (UNII 5, UNII 7) Standard Power Access Point function for the device under Master mode for WNBU image at WLAN 6GHz. Adding Set 22~25 antenna (Adding antenna with lower gain at WLAN 2.4GHz, 5GHz, 4.9GHz and Bluetooth than the original report.) 	<p>After evaluating, set 20, 22 antennas were selected to test as below: AFC DUT Test Harness.</p>
<ol style="list-style-type: none"> Adding Slave with Radar Detection mode for CURUWB image in P2MP function. Adding mesh mode and bridge mode for WNBU image in AP function at WLAN 2.4GHz, 5GHz and Bluetooth. Removing Master mode for WNBU image in AP function at WLAN 4.9GHz. Removing Master mode for CURUWB image in P2P function at WLAN 2.4GHz/Bluetooth. Removing Master/Slave with radar detection mode for CURUWB image in P2MP function at WLAN 2.4GHz /Bluetooth. Adding one model name: IW9167EH-ROW. 	<p>After evaluating, it does not affect the test.</p>



1.5 Table for EUT support function

Operate Mode	Function	Firmware	Support Band
Master/Mesh/Bridge	AP	WNBU image	Bluetooth, WLAN 2.4GHz, 5GHz
Master	P2P	CURUWB image	WLAN 5GHz, 4.9GHz
Master/Slave with radar detection	P2MP	CURUWB image	WLAN 5GHz, 4.9GHz
Master	AP	WNBU image	WLAN 6GHz

Note: The above information was declared by manufacturer.

1.6 Table for Radio function

Radio (R)	WLAN 2.4GHz	5GHz UNII 1~UNII 3	4.9 GHz	6GHz UNII 5, UNII 7	Scanning radio (WLAN 2.4GHz / 5GHz UNII 1~UNII 3 / 6GHz UNII 5, UNII 7)	Bluetooth	GPS
R1 (Iron Radio)	V (AP: 20)	V (AP: 20/40/80) (P2P/P2MP: 20/40/80)	V	-	-	-	-
R2 (Pine Radio)	-	V (AP: 20/40/80/160) (P2P/P2MP: 20/40/80/160)	V	V (AP: 20/40/80/160)	-	-	-
R3 (Scanning Radio)	-	-	-	-	V (For 2.4GHz/5GHz-AP: 20/40/80/160) (For 5GHz-P2P/P2MP: 20/40/80/160) (For 6GHz-AP: 160-RX only)	-	-
R4	-	-	-	-	-	V	-
R5	-	-	-	-	-	-	V

Note: The above information was declared by manufacturer.



1.7 Accessories

Accessories
Sealing collar*3
Wall-mounted rack*2
Grounding wire*1, Non shielded, 0.8m
DC cable*1, Non shielded, 2.6m
DC cable connect*1
Ethernet cable*2, Shielded, 3m
Ethernet cable connect*2

1.8 Support Equipment

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

1.9 Applicable Standards

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

- ♦ 47 CFR FCC Part 15.407

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

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



1.10 Testing Location

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted (For antenna set 20)	TH01-CB	Jeff Wu	20.7~21.4 / 66~70	Nov. 02, 2023~ Nov. 03, 2023
RF Conducted (For antenna set 22)	TH01-CB	Jay Lo	24.2~24.5 / 62~71	May 17, 2024~ May 20, 2024



2 Measurement Environment

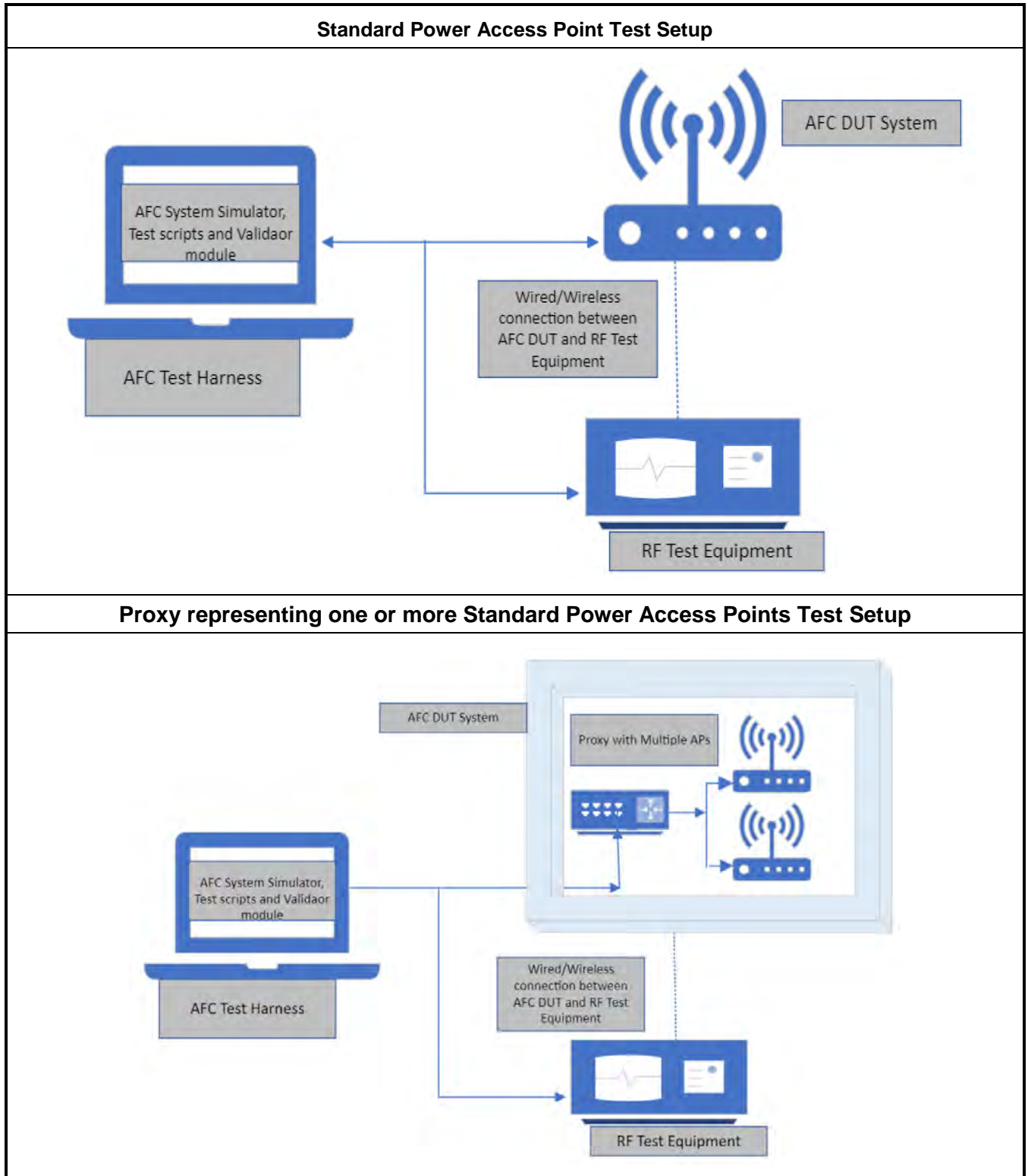
Measurement Environment Information	
AFC DUT Test Harness version	2.0.65.148

2.1 AFCD General Capabilities Declaration

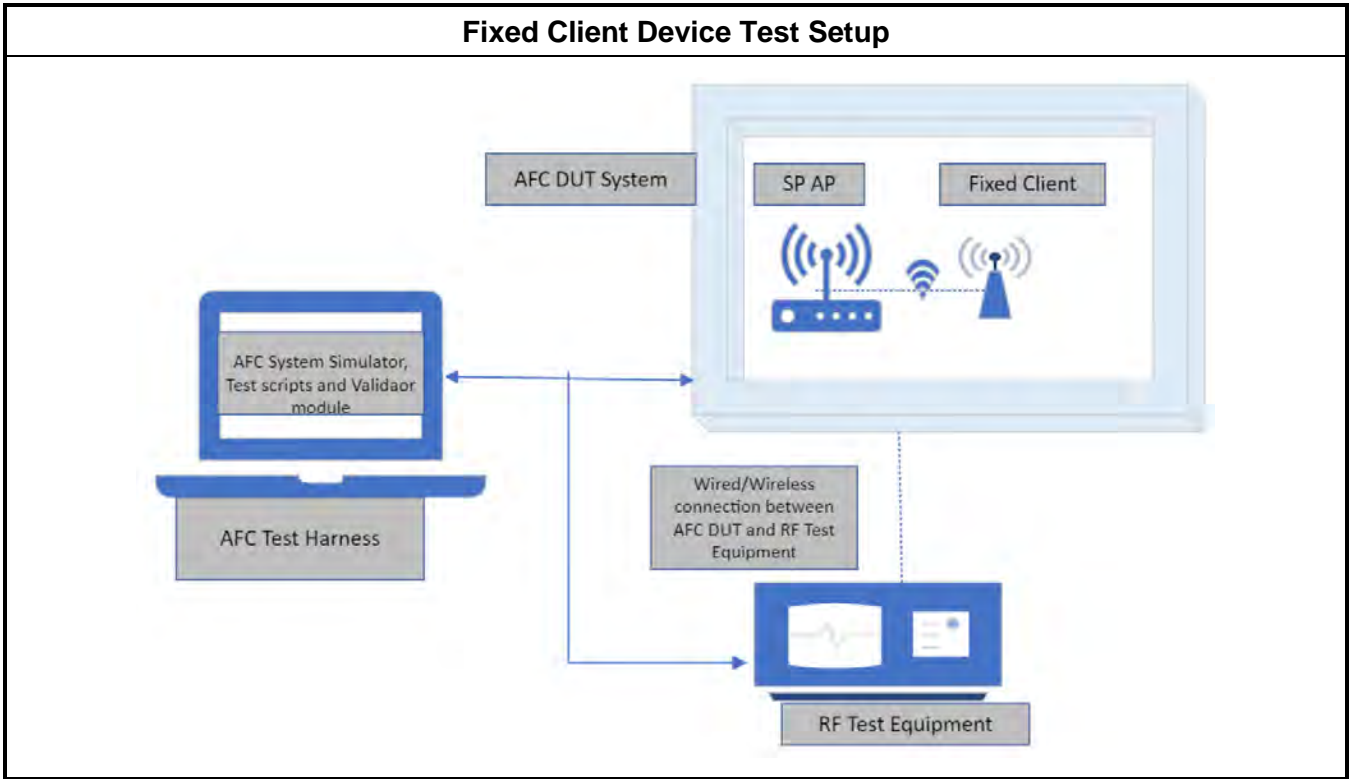
Item	Question	Vendor Response
1	AFC DUT Type	Standard Power AP with Proxy
2	Does the AFC DUT supports sending an Available Spectrum Inquiry Request based on the inquired Frequency Range field?	No
3	Does the AFC DUT supports sending an Available Spectrum Inquiry Request based on the inquired Channels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

Note: The above information was declared by manufacturer.

2.2 Test Configuration



Fixed Client Device Test Setup





3 Protocol Test Results

3.1 Successful Registration and Spectrum Access Request

3.1.1 Test Procedure

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



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

3.1.2 Test Result

Refer as Appendix A~C



3.2 Unsuccessful Spectrum Access Request

3.2.1 Test Procedure

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

3.2.2 Test Result

Refer as Appendix A-C



3.3 Successful Spectrum Access Update

3.3.1 Test Procedure

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



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

3.3.2 Test Result

Refer as Appendix A~C



3.4 Unsuccessful Spectrum Access Update

3.4.1 Test Procedure

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



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

3.4.2 Test Result

Refer as Appendix A-C



3.5 Unsuccessful Server Validation

3.5.1 Test Procedure

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

3.5.2 Test Result

Refer as Appendix A



4 Test Equipment and Calibration Data

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

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



5 Measurement Uncertainty

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

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP with Proxy
DUT Vendor Name	CISCO
DUT Product Model	IW9167EH-B

Test Result

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



15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii), 15.407(l)(ii), 15.407(k)(8)(iv)	CT_AFC_SP_AP_AFCDRSA31_Channel_20MHz_10618_1(Successful registration and spectrum access request)	PASS
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Test Measurements

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (36.0 dBm EIRP) on channel 149 bandwidth 20.	true	PASS
AFC_DUT_SP_OPERATION_NO_REQ	AFC DUT transmit with standard power in the band in no Spectrum Inquiry Request case	false	PASS

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

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION_1	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (30.53673050072065 dBm EIRP) on channel 133 bandwidth 20.	true	PASS
AFC_DUT_SP_OPERATION_NO_REQ	AFC DUT transmit with standard power in the band in no Spectrum Inquiry Request case	false	PASS

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

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

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

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (31.500932453359585 dBm EIRP) on channel center frequency index 79 bandwidth 160.	true	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2	AFC DUT conforms to the conditions in Spectrum Response (30.30896988117061 dBm EIRP) on channel center frequency index 15 bandwidth 160.	true	PASS

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

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (27.55862610579938 dBm EIRP) 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 conforms to the conditions in Spectrum Response (29.270494262940424 dBm EIRP) on channel center frequency index 39 bandwidth 80.	true	PASS

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

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (27.221467289066787 dBm EIRP) on channel center frequency index 83 bandwidth 40.	true	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2	AFC DUT conforms to the conditions in Spectrum Response (27.65278133074008 dBm EIRP) on channel center frequency index 3 bandwidth 40.	true	PASS

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

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (30.883001458465387 dBm EIRP) 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 conforms to the conditions in Spectrum Response (31.633662258370336 dBm EIRP) on channel 85 bandwidth 20.	true	PASS

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP with Proxy
DUT Vendor Name	CISCO
DUT Product Model	IW9167EH-B

Test Result

FCC Requirements	TestCaseName	Test Result
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1(Unsuccessful server validation)	PASS
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_TLSCipherSuiteENULL_10638_1(Unsuccessful server validation)	PASS
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_StapledOCSPRespExpired_10637_1(Unsuccessful server validation)	PASS
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_OCSPStaplingDisabled_10636_1(Unsuccessful server validation)	PASS
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_ServerCertRevoked_10635_1(Unsuccessful server validation)	PASS
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_MatchSuffixSAN_10634_1(Unsuccessful server validation)	PASS
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_DifferentRootCA_10633_1(Unsuccessful server validation)	PASS
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_NonMatchSAN_10632_1(Unsuccessful server validation)	PASS
15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(9)(i)	CT_AFC_SP_AP_AFCDUAU34_Channel_10624_1(Unsuccessful spectrum access update)	PASS
15.407(k)(8)(i), 15.407(k)(8)(ii),	CT_AFC_SP_AP_AFCDUAU33_Channel_10623_1(Successful spectrum access update)	PASS

15.407(k)(9) (i)		
15.407(k)(1), 15.407(k)(8) (i), 15.407(k) (8)(ii), 15.407(k)(8) (iii)	CT_AFC_SP_AP_AFCDUSA32_Channel_10622_1 (Unsuccessful registration and spectrum access request)	PASS
15.407(k)(1), 15.407(k)(8) (i), 15.407(k) (8)(ii), 15.407(k)(8) (iii), 15.407(l) (ii), 15.407(k) (8)(iv)	CT_AFC_SP_AP_AFCDRSA31_Channel_160MHz_10621_1 (Successful registration and spectrum access request)	PASS
15.407(k)(1), 15.407(k)(8) (i), 15.407(k) (8)(ii), 15.407(k)(8) (iii), 15.407(l) (ii), 15.407(k) (8)(iv)	CT_AFC_SP_AP_AFCDRSA31_Channel_80MHz_10620_1 (Successful registration and spectrum access request)	PASS
15.407(k)(1), 15.407(k)(8) (i), 15.407(k) (8)(ii), 15.407(k)(8) (iii), 15.407(l) (ii), 15.407(k) (8)(iv)	CT_AFC_SP_AP_AFCDRSA31_Channel_40MHz_10619_1 (Successful registration and spectrum access request)	PASS
15.407(k)(1), 15.407(k)(8) (i), 15.407(k) (8)(ii), 15.407(k)(8) (iii), 15.407(l) (ii), 15.407(k) (8)(iv)	CT_AFC_SP_AP_AFCDRSA31_Channel_20MHz_10618_1 (Successful registration and spectrum access request)	PASS

Test Measurements

TestCaseName: CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1 (Unsuccessful server validation)

TestResult: PASS

Band: 6GHz

Measurements Name	Description	Value	Validation Result
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AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST	AFC DUT sends an Available Spectrum Inquiry Request	false	PASS
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TestCaseName: CT_AFC_ServerValidation_AP_AFCDUSV35_TLSCipherSuiteENULL_10638_1
 (Unsuccessful server validation)
TestResult:PASS
Band:6GHz

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (36.0 dBm EIRP) on channel 133 bandwidth 20.	true	PASS
AFC_DUT_SP_OPERATION_NO_REQ	AFC DUT transmit with standard power in the band in no Spectrum Inquiry Request case	false	PASS

TestCaseName: CT_AFC_SP_AP_AFCDSAU33_Channel_10623_1 (Successful spectrum access update)

TestResult:PASS

Band:6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION_1	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS

AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (31.476186358883112 dBm EIRP) on channel 133 bandwidth 20.	true	PASS
AFC_DUT_SP_OPERATION_NO_REQ	AFC DUT transmit with standard power in the band in no Spectrum Inquiry Request case	false	PASS

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

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

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

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (31.148448189946507 dBm EIRP) on channel center frequency index 15 bandwidth 160.	true	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2	AFC DUT conforms to the conditions in Spectrum Response (30.85561310269072 dBm EIRP) on channel center frequency index 79 bandwidth 160.	true	PASS

TestCaseName: CT_AFC_SP_AP_AFCDRSA31_Channel_80MHz_10620_1 (Successful registration and

spectrum access request)
 TestResult:PASS
 Band:6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (28.571032467271955 dBm EIRP) on channel center frequency index 87 bandwidth 80.	true	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2	AFC DUT conforms to the conditions in Spectrum Response (28.857344379173195 dBm EIRP) on channel center frequency index 39 bandwidth 80.	true	PASS

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

Measurements Name	Description	Value	Validation Result
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AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (25.918986881363082 dBm EIRP) on channel center frequency index 131 bandwidth 40.	true	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2	AFC DUT conforms to the conditions in Spectrum Response (35.55724687664281 dBm EIRP) on channel center frequency index 51 bandwidth 40.	true	PASS

TestCaseName: CT_AFC_SP_AP_AFCDRSA31_Channel_20MHz_10618_1 (Successful registration and spectrum access request)

TestResult: PASS

Band: 6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS

AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (22.32825022537031 dBm EIRP) on channel 133 bandwidth 20.	true	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2	AFC DUT conforms to the conditions in Spectrum Response (22.123303832088045 dBm EIRP) on channel 5 bandwidth 20.	true	PASS



AFC capability - Inquired Channel

CT_AFC_SP_AP_AFCDRSA31_Channel_20MHz_10618_1

2023-11-02T08:05:06Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1740",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "14212795709925801987",
        "deviceDescriptor": {
          "serialNumber": "KWC263100DR",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "LDKIW9167EH"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
      }
    }
  }
}
```



```
        "orientation": 0.0
    },
    "elevation": {
        "height": 35,
        "heightType": "AGL",
        "verticalUncertainty": 5
    },
    "indoorDeployment": 2
},
"inquiredChannels": [
    {
        "globalOperatingClass": 131,
        "channelCfi": [
            1,
            5,
            9,
            13,
            17,
            21,
            25,
            29,
            33,
            37,
            41,
            45,
            49,
            53,
            57,
            61,
            65,
            69,
            73,
            77,
            81,
            85,
            89,
            93,
```



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

] },



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



```
        7,  
        23,  
        39,  
        55,  
        71,  
        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
}  
],  
"vendorExtensions": [  
    {  
        "extensionId": "APIInfo",  
        "parameters": {  
            "version": "v1",  
            "PID": "IW9167EH-B",  
            "countryCode": "US ",  
            "VID": "00"  
        }  
    }  
]
```



```
        }
      }
    ]
  }
],
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnabled": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-L-C-K9",
          "SN": "FCL2649003A",
          "WLC-Version": "17.14.01"
        }
      ],
      "licenseInfo": {
        "licensingType": "air-dna-advantage",
        "count": 0,
        "lastRumAckReceived": "<none>",
        "countAPsRequiringAFC": 1
      }
    }
  }
]
}
}
```

2023-11-02T08:05:07Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
```



```
"shortDescription": "SUCCESS"  
},  
"availableChannellInfo": [  
  {  
    "channelCfi": [  
      1,  
      5,  
      9,  
      13,  
      17,  
      21,  
      25,  
      29,  
      33,  
      37,  
      41,  
      45,  
      49,  
      53,  
      57,  
      61  
    ],  
    "globalOperatingClass": 131,  
    "maxEirp": [  
      21.76657909620812,  
      30.883001458465387,  
      29.4504213216466,  
      31.586219166820648,  
      24.118849605691658,  
      23.450839848594597,  
      34.99281415337502,  
      24.16503346903945,  
      26.264965204346712,  
      21.447459371788177,  
      29.4871001506378,  
      23.041629982711594,  
      21.845907109539247,
```



```
        32.61576586252635,  
        24.588351051330115,  
        25.82754045971412  
    ]  
},  
{  
    "channelCfi": [  
        3,  
        11,  
        19,  
        27,  
        35,  
        43,  
        51,  
        59  
    ],  
    "globalOperatingClass": 132,  
    "maxEirp": [  
        24.77687905284793,  
        32.460721278286414,  
        26.46113980523441,  
        27.175333425679263,  
        24.45775932842799,  
        26.051929939351407,  
        24.85620706617906,  
        27.598651007969927  
    ]  
},  
{  
    "channelCfi": [  
        7,  
        23,  
        39,  
        55  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  

```




```
                27.787179009487744,  
                29.471439761874215,  
                27.4680592850678,  
                27.866507022818865  
            ]  
        },  
        {  
            "channelCfi": [  
                15,  
                47  
            ],  
            "globalOperatingClass": 134,  
            "maxEirp": [  
                30.797478966127557,  
                30.478359241707615  
            ]  
        }  
    ],  
    "requestId": "14212795709925801987",  
    "availabilityExpireTime": "2023-11-03T08:05:07Z",  
    "rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
}  
],  
"version": "1.4"  
}
```

```
##### 2023-11-02T08:09:50Z #####  
{  
    "headers": {  
        "Host": "testserver.wfatestorg.org",  
        "Accept": "*/*",  
        "Accept-Encoding": "deflate, gzip",  
        "Content-Type": "application/json",  
        "X-Forwarded-For": "192.100.100.254",  
        "X-Forwarded-Host": "testserver.wfatestorg.org",  
        "X-Forwarded-Server": "testserver.wfatestorg.org",  
        "Content-Length": "1740",  
    }  
}
```

```
"Connection": "Keep-Alive"
},
"body": {
  "version": "1.4",
  "availableSpectrumInquiryRequests": [
    {
      "requestId": "14212795709925801988",
      "deviceDescriptor": {
        "serialNumber": "KWC263100DR",
        "certificationId": [
          {
            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
            "id": "LDKIW9167EH"
          }
        ]
      }
    }
  ],
  "location": {
    "ellipse": {
      "center": {
        "longitude": -121.91889,
        "latitude": 37.416858
      },
      "majorAxis": 25,
      "minorAxis": 25,
      "orientation": 0.0
    },
    "elevation": {
      "height": 40,
      "heightType": "AGL",
      "verticalUncertainty": 5
    },
    "indoorDeployment": 2
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131,
      "channelCfi": [
```



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



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



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

```
                215
            ]
        },
        {
            "globalOperatingClass": 134,
            "channelCfi": [
                15,
                47,
                79,
                111,
                143,
                175,
                207
            ]
        }
    ],
    "vendorExtensions": [
        {
            "extensionId": "APInfo",
            "parameters": {
                "version": "v1",
                "PID": "IW9167EH-B",
                "countryCode": "US ",
                "VID": "00"
            }
        }
    ]
},
"vendorExtensions": [
    {
        "extensionId": "XEControllerInfo",
        "parameters": {
            "version": "v1",
            "extendedDebugEnable": "False",
            "chassisInfo": [
                {
```



```
        "role": "active",
        "PID": "C9800-L-C-K9",
        "SN": "FCL2649003A",
        "WLC-Version": "17.14.01"
    }
],
"licenseInfo": {
    "licensingType": "air-dna-advantage",
    "count": 0,
    "lastRumAckReceived": "<none>",
    "countAPsRequiringAFC": 1
}
}
}
]
}
}
```

2023-11-02T08:09:51Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            65,
            69,
            73,
            77,
            81,
            85,
            89,
            93,
```



```
129,  
133,  
137,  
141,  
145,  
149,  
153,  
157  
],  
"globalOperatingClass": 131,  
"maxEirp": [  
25.031303297353958,  
24.654230762463115,  
29.92666682240805,  
25.57043947531224,  
29.129397903708757,  
31.633662258370336,  
26.52830152234514,  
34.31911591893798,  
29.26034651533132,  
33.24778304973808,  
34.815330282246634,  
29.20046384148439,  
27.860554157530814,  
21.66958129660371,  
24.86110842094811,  
29.754181398463718  
]  
},  
{  
"channelCfi": [  
67,  
75,  
83,  
91,  
131,  
139,
```




```
        147,  
        155  
    ],  
    "globalOperatingClass": 132,  
    "maxEirp": [  
        27.664530719102927,  
        28.580739431952054,  
        32.13969786034857,  
        29.53860147898495,  
        32.27064647197113,  
        32.210763798124205,  
        24.679881253243522,  
        27.871408377587922  
    ]  
},  
{  
    "channelCfi": [  
        71,  
        87,  
        135,  
        151  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
        30.674830675742733,  
        32.54890143562476,  
        35.22106375476401,  
        27.69018120988333  
    ]  
},  
{  
    "channelCfi": [  
        79,  
        143  
    ],  
    "globalOperatingClass": 134,  
    "maxEirp": [  

```



```
33.68513063238255,  
30.700481166523147  
    ]  
  }  
],  
  "requestId": "14212795709925801988",  
  "availabilityExpireTime": "2023-11-03T08:09:51Z",  
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
}  
],  
"version": "1.4"  
}
```



CT_AFC_SP_AP_AFCRSA31_Channel_40MHz_10619_1

2023-11-02T08:23:26Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1740",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "14212795709925801989",
        "deviceDescriptor": {
          "serialNumber": "KWC263100DR",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "LDKIW9167EH"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      }
    }
  }
}
```



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



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

]

},

{



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

```
        23,  
        39,  
        55,  
        71,  
        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
}  
],  
"vendorExtensions": [  
    {  
        "extensionId": "APIInfo",  
        "parameters": {  
            "version": "v1",  
            "PID": "IW9167EH-B",  
            "countryCode": "US ",  
            "VID": "00"  
        }  
    }  
]
```



```
    }
  ]
}
],
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnable": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-L-C-K9",
          "SN": "FCL2649003A",
          "WLC-Version": "17.14.01"
        }
      ],
      "licenseInfo": {
        "licensingType": "air-dna-advantage",
        "count": 0,
        "lastRumAckReceived": "<none>",
        "countAPsRequiringAFC": 1
      }
    }
  }
]
}
```

2023-11-02T08:23:27Z

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



```
},  
"availableChannellInfo": [  
  {  
    "channelCfi": [  
      33,  
      37,  
      41,  
      45,  
      49,  
      53,  
      57,  
      61,  
      65,  
      69,  
      73,  
      77,  
      81,  
      85,  
      89,  
      93  
    ],  
    "globalOperatingClass": 131,  
    "maxEirp": [  
      26.62415170912482,  
      25.75181452451342,  
      23.343839647118926,  
      22.146663646073193,  
      26.592519756213353,  
      31.348033767735686,  
      31.480372347307586,  
      34.92017157616024,  
      31.669201327142833,  
      29.721919143328776,  
      26.038196833484808,  
      31.013025145033787,  
      30.22717710415759,  
      24.211167332426974,  
    ]  
  }  
]
```



```
                24.643721842834097,  
                28.859669536124176  
            ]  
        },  
        {  
            "channelCfi": [  
                35,  
                43,  
                51,  
                59,  
                67,  
                75,  
                83,  
                91  
            ],  
            "globalOperatingClass": 132,  
            "maxEirp": [  
                28.762114481153233,  
                25.156963602713006,  
                29.602819712853165,  
                34.4906723039474,  
                32.73221909996859,  
                29.04849679012462,  
                27.221467289066787,  
                27.65402179947391  
            ]  
        },  
        {  
            "channelCfi": [  
                39,  
                55,  
                71,  
                87  
            ],  
            "globalOperatingClass": 133,  
            "maxEirp": [  
                28.16726355935281,
```



32.613119669492974,
32.05879674676443,
30.231767245706592
]
},
{
"channelCfi": [
47,
79
],
"globalOperatingClass": 134,
"maxEirp": [
31.17756351599263,
33.24206720234641
]
}
],
"requestId": "14212795709925801989",
"availabilityExpireTime": "2023-11-03T08:23:27Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}

2023-11-02T08:27:30Z

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

```
},
"body": {
  "version": "1.4",
  "availableSpectrumInquiryRequests": [
    {
      "requestId": "14212795709925801990",
      "deviceDescriptor": {
        "serialNumber": "KWC263100DR",
        "certificationId": [
          {
            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
            "id": "LDKIW9167EH"
          }
        ]
      }
    }
  ],
  "location": {
    "ellipse": {
      "center": {
        "longitude": -121.91889,
        "latitude": 37.416858
      },
      "majorAxis": 25,
      "minorAxis": 25,
      "orientation": 0.0
    },
    "elevation": {
      "height": 40,
      "heightType": "AGL",
      "verticalUncertainty": 5
    },
    "indoorDeployment": 2
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131,
      "channelCfi": [
        1,

```



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



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



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

```
    ]
  },
  {
    "globalOperatingClass": 134,
    "channelCfi": [
      15,
      47,
      79,
      111,
      143,
      175,
      207
    ]
  }
],
"vendorExtensions": [
  {
    "extensionId": "APIInfo",
    "parameters": {
      "version": "v1",
      "PID": "IW9167EH-B",
      "countryCode": "US ",
      "VID": "00"
    }
  }
]
},
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnabled": "False",
      "chassisInfo": [
        {
          "role": "active",
```




```
        "PID": "C9800-L-C-K9",
        "SN": "FCL2649003A",
        "WLC-Version": "17.14.01"
    }
],
"licenseInfo": {
    "licensingType": "air-dna-advantage",
    "count": 0,
    "lastRumAckReceived": "<none>",
    "countAPsRequiringAFC": 1
}
}
}
]
}
}
```

2023-11-02T08:27:31Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            1,
            5,
            9,
            13,
            17,
            21,
            25,
            29,
            129,
          ]
        }
      ]
    }
  ]
}
```



```
133,  
137,  
141,  
145,  
149,  
153,  
157  
],  
"globalOperatingClass": 131,  
"maxEirp": [  
    29.761719381639594,  
    24.642481374100267,  
    26.758592283647374,  
    24.93234360231294,  
    21.014623075705437,  
    34.958387757889376,  
    28.862995732768415,  
    31.76747205169543,  
    29.29407063241026,  
    28.452692234617075,  
    28.20129040955257,  
    24.006813839650498,  
    23.68365119021592,  
    22.979131424742278,  
    21.966912551307328,  
    28.95802022544939  
]  
},  
{  
    "channelCfi": [  
        3,  
        11,  
        19,  
        27,  
        131,  
        139,  
        147,
```



```
155
],
"globalOperatingClass": 132,
"maxEirp": [
    27.65278133074008,
    27.942643558952753,
    24.02492303234525,
    31.873295689408227,
    31.462992191256888,
    27.01711379629031,
    25.98943138138209,
    24.97721250794714
]
},
{
    "channelCfi": [
        7,
        23,
        135,
        151
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
        30.66308128737989,
        27.035222988985055,
        30.027413752930116,
        27.98751246458695
    ]
},
{
    "channelCfi": [
        15,
        143
    ],
    "globalOperatingClass": 134,
    "maxEirp": [
        30.045522945624874,
```



30.997812421226765

]

}

],

"requestId": "14212795709925801990",

"availabilityExpireTime": "2023-11-03T08:27:31Z",

"rulesetId": "US_47_CFR_PART_15_SUBPART_E"

}

],

"version": "1.4"

}



CT_AFC_SP_AP_AFCRSA31_Channel_80MHz_10620_1

2023-11-02T08:33:27Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1740",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "14212795709925801991",
        "deviceDescriptor": {
          "serialNumber": "KWC263100DR",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "LDKIW9167EH"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      }
    }
  }
}
```



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



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

]

},

{



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



```
        23,  
        39,  
        55,  
        71,  
        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
}  
],  
"vendorExtensions": [  
    {  
        "extensionId": "APIInfo",  
        "parameters": {  
            "version": "v1",  
            "PID": "IW9167EH-B",  
            "countryCode": "US ",  
            "VID": "00"  
        }  
    }  
]
```



```
    }
  ]
}
],
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnable": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-L-C-K9",
          "SN": "FCL2649003A",
          "WLC-Version": "17.14.01"
        }
      ],
      "licenseInfo": {
        "licensingType": "air-dna-advantage",
        "count": 0,
        "lastRumAckReceived": "<none>",
        "countAPsRequiringAFC": 1
      }
    }
  }
]
}
}
```

2023-11-02T08:33:27Z

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

```
},  
"availableChannellInfo": [  
  {  
    "channelCfi": [  
      1,  
      5,  
      9,  
      13,  
      17,  
      21,  
      25,  
      29,  
      65,  
      69,  
      73,  
      77,  
      81,  
      85,  
      89,  
      93  
    ],  
    "globalOperatingClass": 131,  
    "maxEirp": [  
      22.84398501765977,  
      26.70746045298187,  
      21.53802619251976,  
      22.9181794989712,  
      21.890746195729875,  
      33.70620689476208,  
      30.279036450471864,  
      25.52827619024445,  
      31.368390950163352,  
      22.334365078743463,  
      25.781686220385687,  
      22.633640990848363,  
      26.32378657478595,  
      25.76012928966292,
```

```
        33.63247092321084,  
        21.224062415977105  
    ]  
},  
{  
    "channelCfi": [  
        3,  
        11,  
        19,  
        27,  
        67,  
        75,  
        83,  
        91  
    ],  
    "globalOperatingClass": 132,  
    "maxEirp": [  
        25.85428497429958,  
        24.54832614915957,  
        24.901046152369688,  
        28.538576146884264,  
        25.344665035383276,  
        25.643940947488176,  
        28.770429246302733,  
        24.234362372616918  
    ]  
},  
{  
    "channelCfi": [  
        7,  
        23,  
        71,  
        87  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
        27.55862610579938,
```



27.911346109009493,
28.354964992023085,
27.244662329256727
]
},
{
"channelCfi": [
15,
79
],
"globalOperatingClass": 134,
"maxEirp": [
30.568926062439196,
30.254962285896543
]
}
],
"requestId": "14212795709925801991",
"availabilityExpireTime": "2023-11-03T08:33:27Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}

2023-11-02T08:38:26Z

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

```
},
"body": {
  "version": "1.4",
  "availableSpectrumInquiryRequests": [
    {
      "requestId": "14212795709925801992",
      "deviceDescriptor": {
        "serialNumber": "KWC263100DR",
        "certificationId": [
          {
            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
            "id": "LDKIW9167EH"
          }
        ]
      }
    }
  ],
  "location": {
    "ellipse": {
      "center": {
        "longitude": -121.91889,
        "latitude": 37.416858
      },
      "majorAxis": 25,
      "minorAxis": 25,
      "orientation": 0.0
    },
    "elevation": {
      "height": 40,
      "heightType": "AGL",
      "verticalUncertainty": 5
    },
    "indoorDeployment": 2
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131,
      "channelCfi": [
        1,

```



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



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




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

```
    ]
  },
  {
    "globalOperatingClass": 134,
    "channelCfi": [
      15,
      47,
      79,
      111,
      143,
      175,
      207
    ]
  }
],
"vendorExtensions": [
  {
    "extensionId": "APIInfo",
    "parameters": {
      "version": "v1",
      "PID": "IW9167EH-B",
      "countryCode": "US ",
      "VID": "00"
    }
  }
]
},
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnabled": "False",
      "chassisInfo": [
        {
          "role": "active",
```



```
        "PID": "C9800-L-C-K9",
        "SN": "FCL2649003A",
        "WLC-Version": "17.14.01"
    }
],
"licenseInfo": {
    "licensingType": "air-dna-advantage",
    "count": 0,
    "lastRumAckReceived": "<none>",
    "countAPsRequiringAFC": 1
}
}
}
]
}
}
```

2023-11-02T08:38:27Z

```
{
  "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": [  
    34.42118739646982,  
    29.324049657336214,  
    23.249894349660803,  
    30.68510790898924,  
    32.657646251121825,  
    23.186000105317603,  
    23.5877962203567,  
    28.005231996082355,  
    32.115331572980544,  
    32.12485749478527,  
    29.135093310219364,  
    23.0138880983884,  
    31.740759703745134,  
    22.606208692529563,  
    27.758227739736164,  
    22.574818869522495  
]  
},  
{  
    "channelCfi": [  
        35,  
        43,  
        51,  
        59,  
        131,  
        139,  
        147,
```

```
155
],
"globalOperatingClass": 132,
"maxEirp": [
    32.33434961397603,
    26.260194306300615,
    26.196300061957416,
    26.598096176996513,
    35.12563152962036,
    26.024188055028212,
    25.616508649169376,
    25.585118826162308
]
},
{
    "channelCfi": [
        39,
        55,
        135,
        151
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
        29.270494262940424,
        29.20660001859723,
        29.034488011668024,
        28.595418782802113
    ]
},
{
    "channelCfi": [
        47,
        143
    ],
    "globalOperatingClass": 134,
    "maxEirp": [
        32.21689997523704,
```



31.605718739441933

]

}

],

"requestId": "14212795709925801992",

"availabilityExpireTime": "2023-11-03T08:38:27Z",

"rulesetId": "US_47_CFR_PART_15_SUBPART_E"

}

],

"version": "1.4"

}



CT_AFC_SP_AP_AFCRSA31_Channel_160MHz_10621_1

2023-11-02T08:42:51Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1740",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "14212795709925801993",
        "deviceDescriptor": {
          "serialNumber": "KWC263100DR",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "LDKIW9167EH"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      }
    }
  }
}
```



```
    },  
    "elevation": {  
      "height": 30,  
      "heightType": "AGL",  
      "verticalUncertainty": 5  
    },  
    "indoorDeployment": 2  
  },  
  "inquiredChannels": [  
    {  
      "globalOperatingClass": 131,  
      "channelCfi": [  
        1,  
        5,  
        9,  
        13,  
        17,  
        21,  
        25,  
        29,  
        33,  
        37,  
        41,  
        45,  
        49,  
        53,  
        57,  
        61,  
        65,  
        69,  
        73,  
        77,  
        81,  
        85,  
        89,  
        93,  
        97,  
      ]  
    }  
  ]  
}
```




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

]

},

{



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

```
        23,  
        39,  
        55,  
        71,  
        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
}  
],  
"vendorExtensions": [  
    {  
        "extensionId": "APIInfo",  
        "parameters": {  
            "version": "v1",  
            "PID": "IW9167EH-B",  
            "countryCode": "US ",  
            "VID": "00"  
        }  
    }  
]
```



```
    }
  ]
}
],
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnable": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-L-C-K9",
          "SN": "FCL2649003A",
          "WLC-Version": "17.14.01"
        }
      ],
      "licenseInfo": {
        "licensingType": "air-dna-advantage",
        "count": 0,
        "lastRumAckReceived": "<none>",
        "countAPsRequiringAFC": 1
      }
    }
  }
]
}
```

2023-11-02T08:42:51Z

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



```
},  
"availableChannellInfo": [  
  {  
    "channelCfi": [  
      65,  
      69,  
      73,  
      77,  
      81,  
      85,  
      89,  
      93  
    ],  
    "globalOperatingClass": 131,  
    "maxEirp": [  
      32.79384479315016,  
      30.09767902099307,  
      32.69562813000765,  
      22.63969097972916,  
      22.470032583440148,  
      27.159526797521394,  
      23.549507563545614,  
      22.60325855642155  
    ]  
  },  
  {  
    "channelCfi": [  
      67,  
      75,  
      83,  
      91  
    ],  
    "globalOperatingClass": 132,  
    "maxEirp": [  
      33.10797897763288,  
      25.649990936368972,  
      25.48033254007996,  
    ]  
  }  
]
```



```
25.613558513061363
]
},
{
  "channelCfi": [
    71,
    87
  ],
  "globalOperatingClass": 133,
  "maxEirp": [
    28.660290893008785,
    28.49063249671977
  ]
},
{
  "channelCfi": [
    79
  ],
  "globalOperatingClass": 134,
  "maxEirp": [
    31.500932453359585
  ]
}
],
"requestId": "14212795709925801993",
"availabilityExpireTime": "2023-11-03T08:42:51Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

```
##### 2023-11-02T08:48:26Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",

```

```
"Accept-Encoding": "deflate, gzip",
"Content-Type": "application/json",
"X-Forwarded-For": "192.100.100.254",
"X-Forwarded-Host": "testserver.wfatestorg.org",
"X-Forwarded-Server": "testserver.wfatestorg.org",
"Content-Length": "1740",
"Connection": "Keep-Alive"
},
"body": {
  "version": "1.4",
  "availableSpectrumInquiryRequests": [
    {
      "requestId": "14212795709925801994",
      "deviceDescriptor": {
        "serialNumber": "KWC263100DR",
        "certificationId": [
          {
            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
            "id": "LDKIW9167EH"
          }
        ]
      }
    }
  ],
  "location": {
    "ellipse": {
      "center": {
        "longitude": -121.91889,
        "latitude": 37.416858
      },
      "majorAxis": 25,
      "minorAxis": 25,
      "orientation": 0.0
    },
    "elevation": {
      "height": 40,
      "heightType": "AGL",
      "verticalUncertainty": 5
    }
  },
}
```



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




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



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



```
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
}  
],  
"vendorExtensions": [  
    {  
        "extensionId": "APInfo",  
        "parameters": {  
            "version": "v1",  
            "PID": "IW9167EH-B",  
            "countryCode": "US ",  
            "VID": "00"  
        }  
    }  
]  
},  
],  
"vendorExtensions": [  
    {
```



```
"extensionId": "XEControllerInfo",
"parameters": {
  "version": "v1",
  "extendedDebugEnable": "False",
  "chassisInfo": [
    {
      "role": "active",
      "PID": "C9800-L-C-K9",
      "SN": "FCL2649003A",
      "WLC-Version": "17.14.01"
    }
  ],
  "licenseInfo": {
    "licensingType": "air-dna-advantage",
    "count": 0,
    "lastRumAckReceived": "<none>",
    "countAPsRequiringAFC": 1
  }
}
]
```

2023-11-02T08:48:27Z

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

```



9,
13,
17,
21,
25,
29,
33,
37,
41,
45,
49,
53,
57,
61,
129,
133,
137,
141,
145,
149,
153,
157
],
"globalOperatingClass": 131,
"maxEirp": [
21.278070011251174,
34.89173710931507,
25.63633533142225,
34.573404811910216,
29.30495647422694,
24.818119884037937,
26.513390534952613,
23.465405274588147,
32.59506909499979,
31.95523398034635,
33.40515596538234,
34.57148793267676,



```
29.544622673330043,  
31.061548251189024,  
34.58259497237403,  
26.46617512737556,  
21.44670806449695,  
30.24891737297549,  
29.51224198344098,  
32.95156239594307,  
25.930800988399923,  
33.408047609691494,  
28.048770378426706,  
21.342787510358868  
]  
,  
{  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27,  
    35,  
    43,  
    51,  
    59,  
    131,  
    139,  
    147,  
    155  
  ],  
  "globalOperatingClass": 132,  
  "maxEirp": [  
    24.288369967890986,  
    28.64663528806206,  
    27.82841984067775,  
    26.47570523122796,  
    34.96553393698616,  
    36.0,
```



```
        32.55492262996985,  
        29.476475084015373,  
        24.45700802113676,  
        32.52254194008079,  
        28.941100945039736,  
        24.35308746699868  
    ]  
},  
{  
    "channelCfi": [  
        7,  
        23,  
        39,  
        55,  
        135,  
        151  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
        27.298669924530795,  
        29.486005187867768,  
        36.0,  
        32.48677504065518,  
        27.46730797777657,  
        27.363387423638493  
    ]  
},  
{  
    "channelCfi": [  
        15,  
        47,  
        143  
    ],  
    "globalOperatingClass": 134,  
    "maxEirp": [  
        30.30896988117061,  
        35.497074997295,
```



30.373687380278305

]

}

],

"requestId": "14212795709925801994",

"availabilityExpireTime": "2023-11-03T08:48:27Z",

"rulesetId": "US_47_CFR_PART_15_SUBPART_E"

}

],

"version": "1.4"

}



CT_AFC_SP_AP_AFCDUSA32_Channel_10622_1

2023-11-02T08:57:39Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1740",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "14212795709925801995",
        "deviceDescriptor": {
          "serialNumber": "KWC263100DR",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "LDKIW9167EH"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      }
    }
  }
}
```



```
    },  
    "elevation": {  
      "height": 30,  
      "heightType": "AGL",  
      "verticalUncertainty": 5  
    },  
    "indoorDeployment": 2  
  },  
  "inquiredChannels": [  
    {  
      "globalOperatingClass": 131,  
      "channelCfi": [  
        1,  
        5,  
        9,  
        13,  
        17,  
        21,  
        25,  
        29,  
        33,  
        37,  
        41,  
        45,  
        49,  
        53,  
        57,  
        61,  
        65,  
        69,  
        73,  
        77,  
        81,  
        85,  
        89,  
        93,  
        97,  
      ]  
    }  
  ]  
}
```



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

]

},

{



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

```
        23,  
        39,  
        55,  
        71,  
        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
}  
],  
"vendorExtensions": [  
    {  
        "extensionId": "APIInfo",  
        "parameters": {  
            "version": "v1",  
            "PID": "IW9167EH-B",  
            "countryCode": "US ",  
            "VID": "00"  
        }  
    }  
]
```



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

2023-11-02T08:57:39Z

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



```
    },  
    "availableChannellInfo": [],  
    "requestId": "14212795709925801995",  
    "availabilityExpireTime": "2023-11-03T08:57:39Z",  
    "rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
  }  
],  
"version": "1.4"  
}
```



CT_AFC_SP_AP_AFCDSAU33_Channel_10623_1

2023-11-02T08:58:47Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1740",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "14212795709925801996",
        "deviceDescriptor": {
          "serialNumber": "KWC263100DR",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "LDKIW9167EH"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      }
    }
  }
}
```




```
    },  
    "elevation": {  
      "height": 40,  
      "heightType": "AGL",  
      "verticalUncertainty": 5  
    },  
    "indoorDeployment": 2  
  },  
  "inquiredChannels": [  
    {  
      "globalOperatingClass": 131,  
      "channelCfi": [  
        1,  
        5,  
        9,  
        13,  
        17,  
        21,  
        25,  
        29,  
        33,  
        37,  
        41,  
        45,  
        49,  
        53,  
        57,  
        61,  
        65,  
        69,  
        73,  
        77,  
        81,  
        85,  
        89,  
        93,  
        97,  
      ]  
    }  
  ]  
}
```



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

]

},

{



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

```
        23,  
        39,  
        55,  
        71,  
        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
}  
],  
"vendorExtensions": [  
    {  
        "extensionId": "APIInfo",  
        "parameters": {  
            "version": "v1",  
            "PID": "IW9167EH-B",  
            "countryCode": "US ",  
            "VID": "00"  
        }  
    }  
]
```



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

2023-11-02T08:58:47Z

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

```
},  
"availableChannelInfo": [  
  {  
    "channelCfi": [  
      65,  
      69,  
      73,  
      77,  
      81,  
      85,  
      89,  
      93,  
      129,  
      133,  
      137,  
      141,  
      145,  
      149,  
      153,  
      157  
    ],  
    "globalOperatingClass": 131,  
    "maxEirp": [  
      25.58932831222058,  
      29.36714999512555,  
      29.569438383629247,  
      26.482810699362794,  
      34.32259724753117,  
      29.78822128772018,  
      23.868523305596497,  
      34.015653945809824,  
      21.600152054181407,  
      30.53673050072065,  
      25.712810472814265,  
      23.749509560992934,  
      25.270302206443787,  
      22.57594430800316,
```



```
                28.898724340737665,  
                32.56952465477507  
            ]  
        },  
        {  
            "channelCfi": [  
                67,  
                75,  
                83,  
                91,  
                131,  
                139,  
                147,  
                155  
            ],  
            "globalOperatingClass": 132,  
            "maxEirp": [  
                28.599628268860393,  
                29.493110656002607,  
                32.79852124435999,  
                26.87882326223631,  
                24.61045201082122,  
                26.759809517632746,  
                25.58624426464297,  
                31.909024297377478  
            ]  
        },  
        {  
            "channelCfi": [  
                71,  
                87,  
                135,  
                151  
            ],  
            "globalOperatingClass": 133,  
            "maxEirp": [  
                31.6099282255002,
```



```
                29.88912321887612,  
                27.62075196746103,  
                28.59654422128278  
            ]  
        },  
        {  
            "channelCfi": [  
                79,  
                143  
            ],  
            "globalOperatingClass": 134,  
            "maxEirp": [  
                32.899423175515935,  
                30.631051924100845  
            ]  
        }  
    ],  
    "requestId": "14212795709925801996",  
    "availabilityExpireTime": "2023-11-03T08:58:47Z",  
    "rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
}  
],  
"version": "1.4"  
}
```




CT_AFC_SP_AP_AFCDUAW34_Channel_10624_1

2023-11-02T09:39:39Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1740",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "14212795709927114025",
        "deviceDescriptor": {
          "serialNumber": "KWC263100DR",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "LDKIW9167EH"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      }
    }
  }
}
```



```
    },  
    "elevation": {  
      "height": 10,  
      "heightType": "AGL",  
      "verticalUncertainty": 5  
    },  
    "indoorDeployment": 2  
  },  
  "inquiredChannels": [  
    {  
      "globalOperatingClass": 131,  
      "channelCfi": [  
        1,  
        5,  
        9,  
        13,  
        17,  
        21,  
        25,  
        29,  
        33,  
        37,  
        41,  
        45,  
        49,  
        53,  
        57,  
        61,  
        65,  
        69,  
        73,  
        77,  
        81,  
        85,  
        89,  
        93,  
        97,  
      ]  
    }  
  ]  
}
```



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

]

},

{



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

```
        23,  
        39,  
        55,  
        71,  
        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
}  
],  
"vendorExtensions": [  
    {  
        "extensionId": "APIInfo",  
        "parameters": {  
            "version": "v1",  
            "PID": "IW9167EH-B",  
            "countryCode": "US ",  
            "VID": "00"  
        }  
    }  
]
```



```
    }
  ]
}
],
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnable": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-L-C-K9",
          "SN": "FCL2649003A",
          "WLC-Version": "17.14.01"
        }
      ],
      "licenseInfo": {
        "licensingType": "air-dna-advantage",
        "count": 0,
        "lastRumAckReceived": "<none>",
        "countAPsRequiringAFC": 1
      }
    }
  }
]
}
```

2023-11-02T09:39:39Z

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



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



153,
157,
161,
165,
169,
173,
177,
181
],
"globalOperatingClass": 131,
"maxEirp": [
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36.0,
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36.0,
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36.0,



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



```
        171,  
        179  
    ],  
    "globalOperatingClass": 132,  
    "maxEirp": [  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
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        36.0,  
        36.0,  
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        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0  
    ]  
},  
{  
    "channelCfi": [  
        7,  
        23,  
        39,  
        55,  
        71,  
        87,  
        135,  
        151,
```



```
        167
      ],
      "globalOperatingClass": 133,
      "maxEirp": [
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0
      ]
    },
    {
      "channelCfi": [
        15,
        47,
        79,
        143
      ],
      "globalOperatingClass": 134,
      "maxEirp": [
        36.0,
        36.0,
        36.0,
        36.0
      ]
    }
  ],
  "requestId": "14212795709927114025",
  "availabilityExpireTime": "2023-11-03T09:39:39Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
```



}



AFC capability - Inquired Channel

CT_AFC_SP_AP_AFCDRSA31_Channel_20MHz_10618_1

2024-05-20T05:35:36Z

{

"headers": {

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

"Accept": "*/*",

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

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

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

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

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

"Content-Length": "1802",

"Connection": "Keep-Alive"

},

"body": {

"version": "1.4",

"availableSpectrumInquiryRequests": [

{

"requestId": "14212795714343574024",

"deviceDescriptor": {

"serialNumber": "KWC263100DR",

"certificationId": [

{

"rulesetId": "US_47_CFR_PART_15_SUBPART_E",

"id": "FCC:LDKIW9167EH"

}

]

},

"location": {

"ellipse": {

"center": {

"longitude": -121.91889,

"latitude": 37.416858

},

"majorAxis": 25,

"minorAxis": 25,



```
        "orientation": 0.0
    },
    "elevation": {
        "height": 16,
        "heightType": "AGL",
        "verticalUncertainty": 5
    },
    "indoorDeployment": 2
},
"inquiredChannels": [
    {
        "globalOperatingClass": 131,
        "channelCfi": [
            1,
            5,
            9,
            13,
            17,
            21,
            25,
            29,
            33,
            37,
            41,
            45,
            49,
            53,
            57,
            61,
            65,
            69,
            73,
            77,
            81,
            85,
            89,
            93,
```



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

]
,



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




```
        7,  
        23,  
        39,  
        55,  
        71,  
        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
},  
{  
    "globalOperatingClass": 137,  
    "channelCfi": [  
        31,  
        63  
    ]  
}  
],  
"vendorExtensions": [
```

```
{
  "extensionId": "APIInfo",
  "parameters": {
    "version": "v1",
    "PID": "IW9167EH-B",
    "countryCode": "US",
    "VID": "00"
  }
}
],
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnable": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-L-C-K9",
          "SN": "FCL2649003A",
          "WLC-Version": "17.15.01"
        }
      ],
      "licenseInfo": {
        "licensingType": "air-dna-advantage",
        "count": 1,
        "lastRumAckReceived": "<none>",
        "countAPsRequiringAFC": 1
      }
    }
  }
]
}
```



2024-05-20T05:35:37Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            129,
            133,
            137,
            141,
            145,
            149,
            153,
            157
          ],
          "globalOperatingClass": 131,
          "maxEirp": [
            27.81059576007508,
            22.32825022537031,
            32.57669996920137,
            31.386650861477452,
            23.64118937784105,
            21.333991777779385,
            34.47608284716161,
            30.567821863118603
          ]
        }
      ],
      {
        "channelCfi": [
          131,
          139,
```

```
        147,  
        155  
    ],  
    "globalOperatingClass": 132,  
    "maxEirp": [  
        25.338550182010124,  
        34.39695081811726,  
        24.344291734419198,  
        33.578121819758415  
    ]  
},  
{  
    "channelCfi": [  
        135,  
        151  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
        28.348850138649937,  
        27.354591691059007  
    ]  
},  
{  
    "channelCfi": [  
        143  
    ],  
    "globalOperatingClass": 134,  
    "maxEirp": [  
        30.364891647698823  
    ]  
}  
],  
"requestId": "14212795714343574024",  
"availabilityExpireTime": "2024-05-21T05:35:37Z",  
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
}  
],
```



```
"version": "1.4"
}

##### 2024-05-20T05:41:00Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1803",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "14212795714343574025",
        "deviceDescriptor": {
          "serialNumber": "KWC263100DR",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "FCC:LDKIW9167EH"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
```



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



93,
97,
101,
105,
109,
113,
117,
121,
125,
129,
133,
137,
141,
145,
149,
153,
157,
161,
165,
169,
173,
177,
181,
185,
189,
193,
197,
201,
205,
209,
213,
217,
221,
225,
229,
233

]



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




```
        "channelCfi": [  
            7,  
            23,  
            39,  
            55,  
            71,  
            87,  
            103,  
            119,  
            135,  
            151,  
            167,  
            183,  
            199,  
            215  
        ]  
    },  
    {  
        "globalOperatingClass": 134,  
        "channelCfi": [  
            15,  
            47,  
            79,  
            111,  
            143,  
            175,  
            207  
        ]  
    },  
    {  
        "globalOperatingClass": 137,  
        "channelCfi": [  
            31,  
            63  
        ]  
    }  
],
```

```
"vendorExtensions": [  
  {  
    "extensionId": "APIInfo",  
    "parameters": {  
      "version": "v1",  
      "PID": "IW9167EH-B",  
      "countryCode": "US ",  
      "VID": "00"  
    }  
  }  
],  
"vendorExtensions": [  
  {  
    "extensionId": "XEControllerInfo",  
    "parameters": {  
      "version": "v1",  
      "extendedDebugEnabled": "False",  
      "chassisInfo": [  
        {  
          "role": "active",  
          "PID": "C9800-L-C-K9",  
          "SN": "FCL2649003A",  
          "WLC-Version": "17.15.01"  
        }  
      ],  
      "licenseInfo": {  
        "licensingType": "air-dna-advantage",  
        "count": 1,  
        "lastRumAckReceived": "<none>",  
        "countAPsRequiringAFC": 1  
      }  
    }  
  }  
]
```



```
}  
  
##### 2024-05-20T05:41:01Z #####  
  
{  
  "availableSpectrumInquiryResponses": [  
    {  
      "response": {  
        "responseCode": 0,  
        "shortDescription": "SUCCESS"  
      },  
      "availableChannelInfo": [  
        {  
          "channelCfi": [  
            1,  
            5,  
            9,  
            13,  
            17,  
            21,  
            25,  
            29,  
            33,  
            37,  
            41,  
            45,  
            49,  
            53,  
            57,  
            61,  
            65,  
            69,  
            73,  
            77,  
            81,  
            85,  
            89,  
            93
```

```
],  
  "globalOperatingClass": 131,  
  "maxEirp": [  
    26.15259575651429,  
    22.123303832088045,  
    25.048670870148825,  
    32.00422569548785,  
    33.23053914878359,  
    32.03560661399034,  
    21.361781372169844,  
    34.895912997704016,  
    25.970925137098575,  
    25.057463870447762,  
    34.88598307327638,  
    24.640218891535934,  
    23.140143380902128,  
    24.70426302748126,  
    29.24217020324747,  
    32.64273885727587,  
    31.06117221845482,  
    32.8122507520234,  
    22.575548017227923,  
    31.93439605650492,  
    34.56212280877636,  
    28.437540417113716,  
    23.971957216260734,  
    21.641264296639704  
  ]  
},  
{  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27,  
    35,  
    43,
```



```
51,  
59,  
67,  
75,  
83,  
91  
],  
"globalOperatingClass": 132,  
"maxEirp": [  
    25.133603788727857,  
    28.058970826788638,  
    35.04590657063015,  
    24.372081328809656,  
    28.067763827087575,  
    27.650518848175746,  
    26.15044333754194,  
    32.25247015988728,  
    34.071472175094634,  
    25.585847973867736,  
    31.44784037375353,  
    24.651564253279517  
]  
},  
{  
    "channelCfi": [  
        7,  
        23,  
        39,  
        55,  
        71,  
        87  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
        28.143903745367666,  
        27.38238128544947,  
        30.660818804815555,
```



```
                29.16074329418175,  
                28.596147930507545,  
                27.661864209919322  
            ]  
        },  
        {  
            "channelCfi": [  
                15,  
                47,  
                79  
            ],  
            "globalOperatingClass": 134,  
            "maxEirp": [  
                30.39268124208928,  
                32.17104325082157,  
                30.672164166559142  
            ]  
        }  
    ],  
    "requestId": "14212795714343574025",  
    "availabilityExpireTime": "2024-05-21T05:41:01Z",  
    "rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
}  
],  
"version": "1.4"  
}
```



CT_AFC_SP_AP_AFCRSA31_Channel_40MHz_10619_1

2024-05-20T05:44:20Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1803",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "14212795714343574026",
        "deviceDescriptor": {
          "serialNumber": "KWC263100DR",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "FCC:LDKIW9167EH"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      }
    }
  }
}
```



```
    },  
    "elevation": {  
        "height": 16,  
        "heightType": "AGL",  
        "verticalUncertainty": 5  
    },  
    "indoorDeployment": 2  
},  
"inquiredChannels": [  
    {  
        "globalOperatingClass": 131,  
        "channelCfi": [  
            1,  
            5,  
            9,  
            13,  
            17,  
            21,  
            25,  
            29,  
            33,  
            37,  
            41,  
            45,  
            49,  
            53,  
            57,  
            61,  
            65,  
            69,  
            73,  
            77,  
            81,  
            85,  
            89,  
            93,  
            97,  
        ]  
    }  
]
```




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

]

},

{



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



```
        23,  
        39,  
        55,  
        71,  
        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
},  
{  
    "globalOperatingClass": 137,  
    "channelCfi": [  
        31,  
        63  
    ]  
}  
],  
"vendorExtensions": [  
    {
```

```
        "extensionId": "APInfo",
        "parameters": {
            "version": "v1",
            "PID": "IW9167EH-B",
            "countryCode": "US ",
            "VID": "00"
        }
    }
]
},
"vendorExtensions": [
    {
        "extensionId": "XEControllerInfo",
        "parameters": {
            "version": "v1",
            "extendedDebugEnabled": "False",
            "chassisInfo": [
                {
                    "role": "active",
                    "PID": "C9800-L-C-K9",
                    "SN": "FCL2649003A",
                    "WLC-Version": "17.15.01"
                }
            ],
            "licenseInfo": {
                "licensingType": "air-dna-advantage",
                "count": 1,
                "lastRumAckReceived": "<none>",
                "countAPsRequiringAFC": 1
            }
        }
    }
]
}
}
```



2024-05-20T05:44:21Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            1,
            5,
            9,
            13,
            17,
            21,
            25,
            29,
            65,
            69,
            73,
            77,
            81,
            85,
            89,
            93,
            129,
            133,
            137,
            141,
            145,
            149,
            153,
            157
          ],
          "globalOperatingClass": 131,
        }
      ]
    }
  ]
}
```

```
"maxEirp": [  
    25.568248501813606,  
    22.459319480315912,  
    22.041992048532,  
    28.974464317798542,  
    26.55661015112923,  
    29.757463847617565,  
    29.013157963592214,  
    24.049227696526508,  
    25.78431239639197,  
    25.291409244601965,  
    32.61341458013782,  
    34.11117342186442,  
    31.419520299634,  
    23.871554478236682,  
    25.834233145051428,  
    28.737846948811207,  
    22.90868692472327,  
    27.353736557991656,  
    28.887957007296677,  
    23.984481746705598,  
    29.36354770804279,  
    34.00694687927123,  
    29.27682876755147,  
    28.406984616006497
```

```
]
```

```
},
```

```
{
```

```
"channelCfi": [  
    3,
```

```
    11,
```

```
    19,
```

```
    27,
```

```
    67,
```

```
    75,
```

```
    83,
```

```
    91,
```



```
        131,  
        139,  
        147,  
        155  
    ],  
    "globalOperatingClass": 132,  
    "maxEirp": [  
        25.469619436955725,  
        25.05229200517181,  
        29.566910107769043,  
        27.05952765316632,  
        28.301709201241778,  
        35.623714536777634,  
        26.881854434876495,  
        28.84453310169124,  
        25.918986881363082,  
        26.99478170334541,  
        32.3738476646826,  
        31.41728457264631  
    ]  
},  
{  
    "channelCfi": [  
        7,  
        23,  
        71,  
        87,  
        135,  
        151  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
        28.06259196181162,  
        30.069827609806133,  
        31.31200915788159,  
        29.8921543915163,  
        28.92928683800289,
```



```
34.42758452928612
  ]
},
{
  "channelCfi": [
    15,
    79,
    143
  ],
  "globalOperatingClass": 134,
  "maxEirp": [
    31.072891918451436,
    32.90245434815612,
    31.939586794642707
  ]
}
],
"requestId": "14212795714343574026",
"availabilityExpireTime": "2024-05-21T05:44:21Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

2024-05-20T05:49:28Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1803",
    "Connection": "Keep-Alive"
  }
}
```



```
},
"body": {
  "version": "1.4",
  "availableSpectrumInquiryRequests": [
    {
      "requestId": "14212795714343574027",
      "deviceDescriptor": {
        "serialNumber": "KWC263100DR",
        "certificationId": [
          {
            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
            "id": "FCC:LDKIW9167EH"
          }
        ]
      }
    }
  ],
  "location": {
    "ellipse": {
      "center": {
        "longitude": -121.91889,
        "latitude": 37.416858
      },
      "majorAxis": 25,
      "minorAxis": 25,
      "orientation": 0.0
    },
    "elevation": {
      "height": 13,
      "heightType": "AGL",
      "verticalUncertainty": 5
    },
    "indoorDeployment": 2
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131,
      "channelCfi": [
        1,

```



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



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



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

```
    ]
  },
  {
    "globalOperatingClass": 134,
    "channelCfi": [
      15,
      47,
      79,
      111,
      143,
      175,
      207
    ]
  },
  {
    "globalOperatingClass": 137,
    "channelCfi": [
      31,
      63
    ]
  }
],
"vendorExtensions": [
  {
    "extensionId": "APInfo",
    "parameters": {
      "version": "v1",
      "PID": "IW9167EH-B",
      "countryCode": "US ",
      "VID": "00"
    }
  }
]
},
"vendorExtensions": [
  {
```



```
"extensionId": "XEControllerInfo",
"parameters": {
  "version": "v1",
  "extendedDebugEnable": "False",
  "chassisInfo": [
    {
      "role": "active",
      "PID": "C9800-L-C-K9",
      "SN": "FCL2649003A",
      "WLC-Version": "17.15.01"
    }
  ],
  "licenseInfo": {
    "licensingType": "air-dna-advantage",
    "count": 1,
    "lastRumAckReceived": "<none>",
    "countAPsRequiringAFC": 1
  }
}
]
```

2024-05-20T05:49:29Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            33,
            37,
```



```
    41,  
    45,  
    49,  
    53,  
    57,  
    61  
  ],  
  "globalOperatingClass": 131,  
  "maxEirp": [  
    23.269914729750546,  
    31.917623258765705,  
    32.72367289389442,  
    33.70141539256777,  
    33.72256037242053,  
    32.546946920002995,  
    31.32822852788702,  
    23.70335991071588  
  ]  
},  
{  
  "channelCfi": [  
    35,  
    43,  
    51,  
    59  
  ],  
  "globalOperatingClass": 132,  
  "maxEirp": [  
    26.28021468639036,  
    35.73397285053423,  
    35.55724687664281,  
    26.71365986735569  
  ]  
},  
{  
  "channelCfi": [  
    39,
```



```
55
],
"globalOperatingClass": 133,
"maxEirp": [
    29.290514643030164,
    29.7239598239955
]
},
{
    "channelCfi": [
        47
    ],
    "globalOperatingClass": 134,
    "maxEirp": [
        32.300814599669984
    ]
}
],
"requestId": "14212795714343574027",
"availabilityExpireTime": "2024-05-21T05:49:29Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```




CT_AFC_SP_AP_AFCRSA31_Channel_80MHz_10620_1

2024-05-20T06:00:17Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1803",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "14212795714343574028",
        "deviceDescriptor": {
          "serialNumber": "KWC263100DR",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "FCC:LDKIW9167EH"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      }
    }
  }
}
```



```
    },  
    "elevation": {  
        "height": 16,  
        "heightType": "AGL",  
        "verticalUncertainty": 5  
    },  
    "indoorDeployment": 2  
},  
"inquiredChannels": [  
    {  
        "globalOperatingClass": 131,  
        "channelCfi": [  
            1,  
            5,  
            9,  
            13,  
            17,  
            21,  
            25,  
            29,  
            33,  
            37,  
            41,  
            45,  
            49,  
            53,  
            57,  
            61,  
            65,  
            69,  
            73,  
            77,  
            81,  
            85,  
            89,  
            93,  
            97,  
        ]  
    }  
]
```



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

]

},

{



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



```
        23,  
        39,  
        55,  
        71,  
        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
},  
{  
    "globalOperatingClass": 137,  
    "channelCfi": [  
        31,  
        63  
    ]  
}  
],  
"vendorExtensions": [  
    {
```

```
        "extensionId": "APInfo",
        "parameters": {
            "version": "v1",
            "PID": "IW9167EH-B",
            "countryCode": "US ",
            "VID": "00"
        }
    }
]
},
"vendorExtensions": [
    {
        "extensionId": "XEControllerInfo",
        "parameters": {
            "version": "v1",
            "extendedDebugEnabled": "False",
            "chassisInfo": [
                {
                    "role": "active",
                    "PID": "C9800-L-C-K9",
                    "SN": "FCL2649003A",
                    "WLC-Version": "17.15.01"
                }
            ],
            "licenseInfo": {
                "licensingType": "air-dna-advantage",
                "count": 1,
                "lastRumAckReceived": "<none>",
                "countAPsRequiringAFC": 1
            }
        }
    }
]
}
}
```



2024-05-20T06:00:17Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            65,
            69,
            73,
            77,
            81,
            85,
            89,
            93
          ],
          "globalOperatingClass": 131,
          "maxEirp": [
            25.04662470197522,
            30.164557169469976,
            21.690067751442598,
            33.75284718879886,
            26.434257054588624,
            22.550432553992334,
            25.65135928071367,
            22.97554857291192
          ]
        },
        {
          "channelCfi": [
            67,
            75,
            83,
```

```
91
],
"globalOperatingClass": 132,
"maxEirp": [
    28.05692465861503,
    24.70036770808241,
    25.560732510632146,
    25.98584852955173
]
},
{
    "channelCfi": [
        71,
        87
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
        27.710667664722216,
        28.571032467271955
    ]
},
{
    "channelCfi": [
        79
    ],
    "globalOperatingClass": 134,
    "maxEirp": [
        30.720967621362036
    ]
}
],
"requestId": "14212795714343574028",
"availabilityExpireTime": "2024-05-21T06:00:17Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
```




```
}  
  
##### 2024-05-20T06:03:52Z #####  
  
{  
  "headers": {  
    "Host": "testserver.wfatestorg.org",  
    "Accept": "*/*",  
    "Accept-Encoding": "deflate, gzip",  
    "Content-Type": "application/json",  
    "X-Forwarded-For": "192.100.100.254",  
    "X-Forwarded-Host": "testserver.wfatestorg.org",  
    "X-Forwarded-Server": "testserver.wfatestorg.org",  
    "Content-Length": "1803",  
    "Connection": "Keep-Alive"  
  },  
  "body": {  
    "version": "1.4",  
    "availableSpectrumInquiryRequests": [  
      {  
        "requestId": "14212795714343574029",  
        "deviceDescriptor": {  
          "serialNumber": "KWC263100DR",  
          "certificationId": [  
            {  
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",  
              "id": "FCC:LDKIW9167EH"  
            }  
          ]  
        }  
      }  
    ],  
    "location": {  
      "ellipse": {  
        "center": {  
          "longitude": -121.91889,  
          "latitude": 37.416858  
        },  
        "majorAxis": 25,  
        "minorAxis": 25,  
      }  
    }  
  }  
}
```



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



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

]
,



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



```
        7,  
        23,  
        39,  
        55,  
        71,  
        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
},  
{  
    "globalOperatingClass": 137,  
    "channelCfi": [  
        31,  
        63  
    ]  
}  
],  
"vendorExtensions": [
```

```
{
  "extensionId": "APIInfo",
  "parameters": {
    "version": "v1",
    "PID": "IW9167EH-B",
    "countryCode": "US ",
    "VID": "00"
  }
}
]
},
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnable": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-L-C-K9",
          "SN": "FCL2649003A",
          "WLC-Version": "17.15.01"
        }
      ],
      "licenseInfo": {
        "licensingType": "air-dna-advantage",
        "count": 1,
        "lastRumAckReceived": "<none>",
        "countAPsRequiringAFC": 1
      }
    }
  }
]
}
```



2024-05-20T06:03:53Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            1,
            5,
            9,
            13,
            17,
            21,
            25,
            29,
            33,
            37,
            41,
            45,
            49,
            53,
            57,
            61,
            129,
            133,
            137,
            141,
            145,
            149,
            153,
            157
          ],
        }
      ]
    }
  ]
}
```

```
"globalOperatingClass": 131,  
"maxEirp": [  
    28.51151137473807,  
    26.01410979874455,  
    29.069303838261362,  
    28.033463272669447,  
    33.03111472716518,  
    32.799404814713235,  
    34.689357203505395,  
    28.718198876785607,  
    34.68778641772203,  
    32.84400210989563,  
    23.351430406760578,  
    22.8367444465893574,  
    25.09400177310094,  
    27.20197463666721,  
    31.810144964562028,  
    23.57713872623708,  
    21.186104921241178,  
    22.297003255929155,  
    22.09280703966204,  
    22.336209552607365,  
    23.224044496736052,  
    28.183590330504998,  
    29.6281499997285,  
    31.938784988732728  
]  
,  
{  
    "channelCfi": [  
        3,  
        11,  
        19,  
        27,  
        35,  
        43,  
        51,
```




```
59,  
131,  
139,  
147,  
155  
],  
"globalOperatingClass": 132,  
"maxEirp": [  
29.02440975538436,  
31.04376322930926,  
35.80970477135305,  
31.72849883342542,  
35.85430206653544,  
25.847044422533386,  
28.10430172974075,  
26.587438682876893,  
24.19640487788099,  
25.103106996301854,  
26.234344453375865,  
32.63844995636831  
]  
},  
{  
"channelCfi": [  
7,  
23,  
39,  
55,  
135,  
151  
],  
"globalOperatingClass": 133,  
"maxEirp": [  
32.034709712024174,  
34.73879879006523,  
28.857344379173195,  
29.597738639516702,
```



```
27.2067048345208,  
29.244644410015674  
]  
,  
{  
  "channelCfi": [  
    15,  
    47,  
    143  
  ],  
  "globalOperatingClass": 134,  
  "maxEirp": [  
    35.04500966866399,  
    31.86764433581301,  
    30.217004791160615  
  ]  
}  
,  
  "requestId": "14212795714343574029",  
  "availabilityExpireTime": "2024-05-21T06:03:53Z",  
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
}  
,  
  "version": "1.4"  
}
```



CT_AFC_SP_AP_AFCDRSA31_Channel_160MHz_10621_1

2024-05-20T06:11:21Z

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1802",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "14212795714343574030",
        "deviceDescriptor": {
          "serialNumber": "KWC263100DR",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "FCC:LDKIW9167EH"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.91889,
          "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      }
    }
  }
}
```



```
    },  
    "elevation": {  
        "height": 16,  
        "heightType": "AGL",  
        "verticalUncertainty": 5  
    },  
    "indoorDeployment": 2  
},  
"inquiredChannels": [  
    {  
        "globalOperatingClass": 131,  
        "channelCfi": [  
            1,  
            5,  
            9,  
            13,  
            17,  
            21,  
            25,  
            29,  
            33,  
            37,  
            41,  
            45,  
            49,  
            53,  
            57,  
            61,  
            65,  
            69,  
            73,  
            77,  
            81,  
            85,  
            89,  
            93,  
            97,  
        ]  
    }  
]
```



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

]

},

{



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



```
        23,  
        39,  
        55,  
        71,  
        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
},  
{  
    "globalOperatingClass": 137,  
    "channelCfi": [  
        31,  
        63  
    ]  
}  
],  
"vendorExtensions": [  
    {
```

```
        "extensionId": "APInfo",
        "parameters": {
            "version": "v1",
            "PID": "IW9167EH-B",
            "countryCode": "US",
            "VID": "00"
        }
    }
]
},
"vendorExtensions": [
    {
        "extensionId": "XEControllerInfo",
        "parameters": {
            "version": "v1",
            "extendedDebugEnabled": "False",
            "chassisInfo": [
                {
                    "role": "active",
                    "PID": "C9800-L-C-K9",
                    "SN": "FCL2649003A",
                    "WLC-Version": "17.15.01"
                }
            ],
            "licenseInfo": {
                "licensingType": "air-dna-advantage",
                "count": 1,
                "lastRumAckReceived": "<none>",
                "countAPsRequiringAFC": 1
            }
        }
    }
]
}
}
```




2024-05-20T06:11:21Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            1,
            5,
            9,
            13,
            17,
            21,
            25,
            29,
            33,
            37,
            41,
            45,
            49,
            53,
            57,
            61,
            129,
            133,
            137,
            141,
            145,
            149,
            153,
            157
          ],
          "globalOperatingClass": 131,
        }
      ]
    }
  ]
}
```

```
"maxEirp": [  
    23.668873626619217,  
    31.914825382765,  
    31.105789893512657,  
    22.11754832002707,  
    26.635219984115505,  
    34.11146461047424,  
    23.997828296722222,  
    24.04613126364948,  
    31.609733512181766,  
    24.684013015131974,  
    28.02839039519754,  
    33.9910826740583,  
    29.539646478753394,  
    26.306585383989454,  
    33.01493389904559,  
    32.024865249255214,  
    28.99541060940886,  
    22.074298512903887,  
    32.82762451276972,  
    25.06426018033687,  
    33.030397602260486,  
    30.318799039062533,  
    31.117953632488355,  
    27.828227380197973
```

```
]
```

```
},
```

```
{
```

```
"channelCfi": [  
    3,
```

```
    11,
```

```
    19,
```

```
    27,
```

```
    35,
```

```
    43,
```

```
    51,
```

```
    59,
```



```
        131,  
        139,  
        147,  
        155  
    ],  
    "globalOperatingClass": 132,  
    "maxEirp": [  
        26.67917358325903,  
        25.12784827666688,  
        29.645519940755317,  
        27.008128253362035,  
        27.694312971771787,  
        31.038690351837353,  
        29.316885340629266,  
        35.03516520589503,  
        25.0845984695437,  
        28.074560136976682,  
        33.329098995702346,  
        30.838527336837785  
    ]  
},  
{  
    "channelCfi": [  
        7,  
        23,  
        39,  
        55,  
        135,  
        151  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
        28.138148233306694,  
        30.018428210001844,  
        30.704612928411592,  
        32.327185297269075,  
        28.094898426183505,
```



33.8488272934776
]
},
{
"channelCfi": [
15,
47,
143
],
"globalOperatingClass": 134,
"maxEirp": [
31.148448189946507,
33.71491288505141,
31.105198382823325
]
}
],
"requestId": "14212795714343574030",
"availabilityExpireTime": "2024-05-21T06:11:21Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}

2024-05-20T06:15:49Z

{
"headers": {
"Host": "testserver.wfatestorg.org",
"Accept": "*/*",
"Accept-Encoding": "deflate, gzip",
"Content-Type": "application/json",
"X-Forwarded-For": "192.100.100.254",
"X-Forwarded-Host": "testserver.wfatestorg.org",
"X-Forwarded-Server": "testserver.wfatestorg.org",
"Content-Length": "1803",
"Connection": "Keep-Alive"
}

```
},
"body": {
  "version": "1.4",
  "availableSpectrumInquiryRequests": [
    {
      "requestId": "14212795714343574031",
      "deviceDescriptor": {
        "serialNumber": "KWC263100DR",
        "certificationId": [
          {
            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
            "id": "FCC:LDKIW9167EH"
          }
        ]
      }
    }
  ],
  "location": {
    "ellipse": {
      "center": {
        "longitude": -121.91889,
        "latitude": 37.416858
      },
      "majorAxis": 25,
      "minorAxis": 25,
      "orientation": 0.0
    },
    "elevation": {
      "height": 13,
      "heightType": "AGL",
      "verticalUncertainty": 5
    },
    "indoorDeployment": 2
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131,
      "channelCfi": [
        1,

```



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



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



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



```
    ]
  },
  {
    "globalOperatingClass": 134,
    "channelCfi": [
      15,
      47,
      79,
      111,
      143,
      175,
      207
    ]
  },
  {
    "globalOperatingClass": 137,
    "channelCfi": [
      31,
      63
    ]
  }
],
"vendorExtensions": [
  {
    "extensionId": "APIInfo",
    "parameters": {
      "version": "v1",
      "PID": "IW9167EH-B",
      "countryCode": "US ",
      "VID": "00"
    }
  }
]
},
"vendorExtensions": [
  {
```



```
"extensionId": "XEControllerInfo",
"parameters": {
  "version": "v1",
  "extendedDebugEnable": "False",
  "chassisInfo": [
    {
      "role": "active",
      "PID": "C9800-L-C-K9",
      "SN": "FCL2649003A",
      "WLC-Version": "17.15.01"
    }
  ],
  "licenseInfo": {
    "licensingType": "air-dna-advantage",
    "count": 1,
    "lastRumAckReceived": "<none>",
    "countAPsRequiringAFC": 1
  }
}
]
```

2024-05-20T06:15:49Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            65,
            69,
```



```
73,  
77,  
81,  
85,  
89,  
93  
],  
"globalOperatingClass": 131,  
"maxEirp": [  
    32.8715408496762,  
    28.630229475611173,  
    21.824713232771284,  
    29.97901466605453,  
    32.10482318948762,  
    27.315722208431353,  
    25.859733970326026,  
    32.95426248161145  
]  
},  
{  
    "channelCfi": [  
        67,  
        75,  
        83,  
        91  
    ],  
    "globalOperatingClass": 132,  
    "maxEirp": [  
        31.640529432250986,  
        24.835013189411097,  
        30.326022165071166,  
        28.87003392696584  
    ]  
},  
{  
    "channelCfi": [  
        71,
```



```
      87
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
      27.845313146050906,
      31.880333883605644
    ]
  },
  {
    "channelCfi": [
      79
    ],
    "globalOperatingClass": 134,
    "maxEirp": [
      30.85561310269072
    ]
  }
],
"requestId": "14212795714343574031",
"availabilityExpireTime": "2024-05-21T06:15:49Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```



CT_AFC_SP_AP_AFCDUSA32_Channel_10622_1

2024-05-20T06:22:41Z

{

"headers": {

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

"Accept": "*//*",

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

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

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

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

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

"Content-Length": "1803",

"Connection": "Keep-Alive"

},

"body": {

"version": "1.4",

"availableSpectrumInquiryRequests": [

{

"requestId": "14212795714343574032",

"deviceDescriptor": {

"serialNumber": "KWC263100DR",

"certificationId": [

{

"rulesetId": "US_47_CFR_PART_15_SUBPART_E",

"id": "FCC:LDKIW9167EH"

}

]

},

"location": {

"ellipse": {

"center": {

"longitude": -121.91889,

"latitude": 37.416858

},

"majorAxis": 25,

"minorAxis": 25,

"orientation": 0.0



```
    },  
    "elevation": {  
        "height": 16,  
        "heightType": "AGL",  
        "verticalUncertainty": 5  
    },  
    "indoorDeployment": 2  
},  
"inquiredChannels": [  
    {  
        "globalOperatingClass": 131,  
        "channelCfi": [  
            1,  
            5,  
            9,  
            13,  
            17,  
            21,  
            25,  
            29,  
            33,  
            37,  
            41,  
            45,  
            49,  
            53,  
            57,  
            61,  
            65,  
            69,  
            73,  
            77,  
            81,  
            85,  
            89,  
            93,  
            97,
```



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

]

},

{



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




```
                23,  
                39,  
                55,  
                71,  
                87,  
                103,  
                119,  
                135,  
                151,  
                167,  
                183,  
                199,  
                215  
            ]  
        },  
        {  
            "globalOperatingClass": 134,  
            "channelCfi": [  
                15,  
                47,  
                79,  
                111,  
                143,  
                175,  
                207  
            ]  
        },  
        {  
            "globalOperatingClass": 137,  
            "channelCfi": [  
                31,  
                63  
            ]  
        }  
    ],  
    "vendorExtensions": [  
        {
```

```
        "extensionId": "APIInfo",
        "parameters": {
            "version": "v1",
            "PID": "IW9167EH-B",
            "countryCode": "US ",
            "VID": "00"
        }
    }
]
},
"vendorExtensions": [
    {
        "extensionId": "XEControllerInfo",
        "parameters": {
            "version": "v1",
            "extendedDebugEnabled": "False",
            "chassisInfo": [
                {
                    "role": "active",
                    "PID": "C9800-L-C-K9",
                    "SN": "FCL2649003A",
                    "WLC-Version": "17.15.01"
                }
            ],
            "licenseInfo": {
                "licensingType": "air-dna-advantage",
                "count": 1,
                "lastRumAckReceived": "<none>",
                "countAPsRequiringAFC": 1
            }
        }
    }
]
}
}
```



```
##### 2024-05-20T06:22:41Z #####  
{  
  "availableSpectrumInquiryResponses": [  
    {  
      "response": {  
        "responseCode": 0,  
        "shortDescription": "SUCCESS"  
      },  
      "availableChannelInfo": [],  
      "requestId": "14212795714343574032",  
      "availabilityExpireTime": "2024-05-21T06:22:41Z",  
      "rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
    }  
  ],  
  "version": "1.4"  
}
```



CT_AFC_SP_AP_AFCDSAU33_Channel_10623_1

2024-05-20T06:24:53Z

{

"headers": {

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

"Accept": "*//*",

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

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

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

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

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

"Content-Length": "1802",

"Connection": "Keep-Alive"

},

"body": {

"version": "1.4",

"availableSpectrumInquiryRequests": [

{

"requestId": "14212795714343574033",

"deviceDescriptor": {

"serialNumber": "KWC263100DR",

"certificationId": [

{

"rulesetId": "US_47_CFR_PART_15_SUBPART_E",

"id": "FCC:LDKIW9167EH"

}

]

},

"location": {

"ellipse": {

"center": {

"longitude": -121.91889,

"latitude": 37.416858

},

"majorAxis": 25,

"minorAxis": 25,

"orientation": 0.0



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



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

]

},

{



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



```
        23,  
        39,  
        55,  
        71,  
        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
},  
{  
    "globalOperatingClass": 137,  
    "channelCfi": [  
        31,  
        63  
    ]  
}  
],  
"vendorExtensions": [  
    {
```



```
        "extensionId": "APInfo",
        "parameters": {
            "version": "v1",
            "PID": "IW9167EH-B",
            "countryCode": "US",
            "VID": "00"
        }
    }
]
},
"vendorExtensions": [
    {
        "extensionId": "XEControllerInfo",
        "parameters": {
            "version": "v1",
            "extendedDebugEnabled": "False",
            "chassisInfo": [
                {
                    "role": "active",
                    "PID": "C9800-L-C-K9",
                    "SN": "FCL2649003A",
                    "WLC-Version": "17.15.01"
                }
            ],
            "licenseInfo": {
                "licensingType": "air-dna-advantage",
                "count": 1,
                "lastRumAckReceived": "<none>",
                "countAPsRequiringAFC": 1
            }
        }
    }
]
}
}
```



2024-05-20T06:24:53Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            129,
            133,
            137,
            141,
            145,
            149,
            153,
            157
          ],
          "globalOperatingClass": 131,
          "maxEirp": [
            32.12164108863928,
            31.476186358883112,
            21.85061420707445,
            34.321493445243966,
            30.852472307374185,
            22.20272809963992,
            32.309941207079255,
            24.103150990934992
          ]
        }
      ],
      {
        "channelCfi": [
          131,
          139,
          147,
```

```
155
],
"globalOperatingClass": 132,
"maxEirp": [
    34.486486315522924,
    24.860914163714263,
    25.213028056279732,
    27.113450947574805
]
},
{
    "channelCfi": [
        135,
        151
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
        27.871214120354075,
        28.223328012919545
    ]
},
{
    "channelCfi": [
        143
    ],
    "globalOperatingClass": 134,
    "maxEirp": [
        30.881514076993888
    ]
}
],
"requestId": "14212795714343574033",
"availabilityExpireTime": "2024-05-21T06:24:53Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
```



}



CT_AFC_SP_AP_AFCDUAW34_Channel_10624_1

2024-05-20T06:39:37Z

{

"headers": {

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

"Accept": "*//*",

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

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

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

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

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

"Content-Length": "1802",

"Connection": "Keep-Alive"

},

"body": {

"version": "1.4",

"availableSpectrumInquiryRequests": [

{

"requestId": "14212795714343574034",

"deviceDescriptor": {

"serialNumber": "KWC263100DR",

"certificationId": [

{

"rulesetId": "US_47_CFR_PART_15_SUBPART_E",

"id": "FCC:LDKIW9167EH"

}

]

},

"location": {

"ellipse": {

"center": {

"longitude": -121.91889,

"latitude": 37.416858

},

"majorAxis": 25,

"minorAxis": 25,

"orientation": 0.0



```
    },  
    "elevation": {  
        "height": 16,  
        "heightType": "AGL",  
        "verticalUncertainty": 5  
    },  
    "indoorDeployment": 2  
},  
"inquiredChannels": [  
    {  
        "globalOperatingClass": 131,  
        "channelCfi": [  
            1,  
            5,  
            9,  
            13,  
            17,  
            21,  
            25,  
            29,  
            33,  
            37,  
            41,  
            45,  
            49,  
            53,  
            57,  
            61,  
            65,  
            69,  
            73,  
            77,  
            81,  
            85,  
            89,  
            93,  
            97,  
        ]  
    }  
]
```



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

]

},

{



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




```
                23,  
                39,  
                55,  
                71,  
                87,  
                103,  
                119,  
                135,  
                151,  
                167,  
                183,  
                199,  
                215  
            ]  
        },  
        {  
            "globalOperatingClass": 134,  
            "channelCfi": [  
                15,  
                47,  
                79,  
                111,  
                143,  
                175,  
                207  
            ]  
        },  
        {  
            "globalOperatingClass": 137,  
            "channelCfi": [  
                31,  
                63  
            ]  
        }  
    ],  
    "vendorExtensions": [  
        {
```

```
        "extensionId": "APIInfo",
        "parameters": {
            "version": "v1",
            "PID": "IW9167EH-B",
            "countryCode": "US",
            "VID": "00"
        }
    }
]
},
"vendorExtensions": [
    {
        "extensionId": "XEControllerInfo",
        "parameters": {
            "version": "v1",
            "extendedDebugEnabled": "False",
            "chassisInfo": [
                {
                    "role": "active",
                    "PID": "C9800-L-C-K9",
                    "SN": "FCL2649003A",
                    "WLC-Version": "17.15.01"
                }
            ],
            "licenseInfo": {
                "licensingType": "air-dna-advantage",
                "count": 1,
                "lastRumAckReceived": "<none>",
                "countAPsRequiringAFC": 1
            }
        }
    }
]
}
}
```



2024-05-20T06:39:37Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            1,
            5,
            9,
            13,
            17,
            21,
            25,
            29,
            33,
            37,
            41,
            45,
            49,
            53,
            57,
            61,
            65,
            69,
            73,
            77,
            81,
            85,
            89,
            93,
            117,
            121,
```




```
        23,  
        39,  
        55,  
        71,  
        87,  
        135,  
        151,  
        167  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0,  
        36.0  
    ]  
},  
{  
    "channelCfi": [  
        15,  
        47,  
        79,  
        143  
    ],  
    "globalOperatingClass": 134,  
    "maxEirp": [  
        36.0,  
        36.0,  
        36.0,  
        36.0  
    ]  
}
```



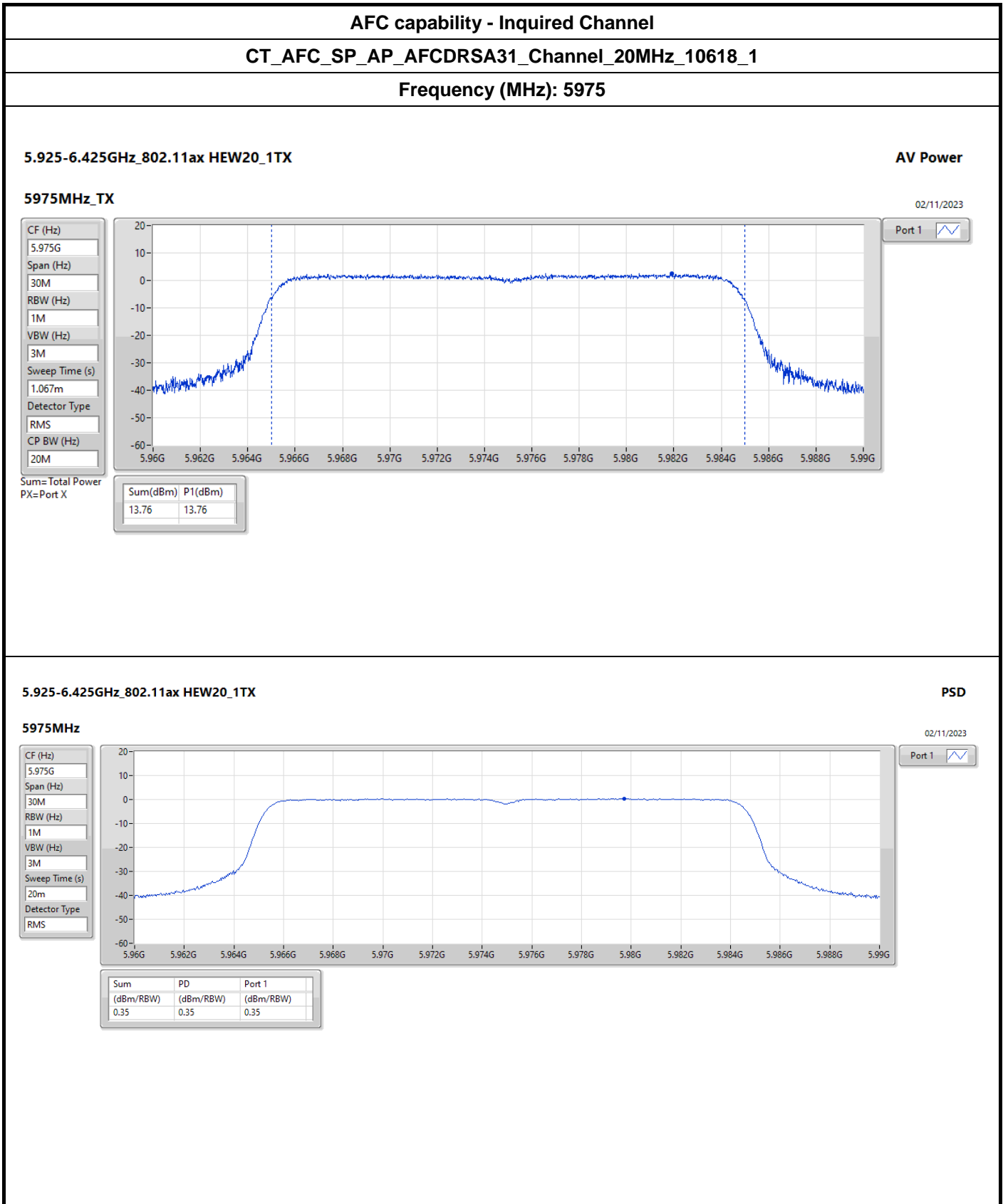
```
],  
  "requestId": "14212795714343574034",  
  "availabilityExpireTime": "2024-05-21T06:39:37Z",  
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
}  
],  
  "version": "1.4"  
}
```

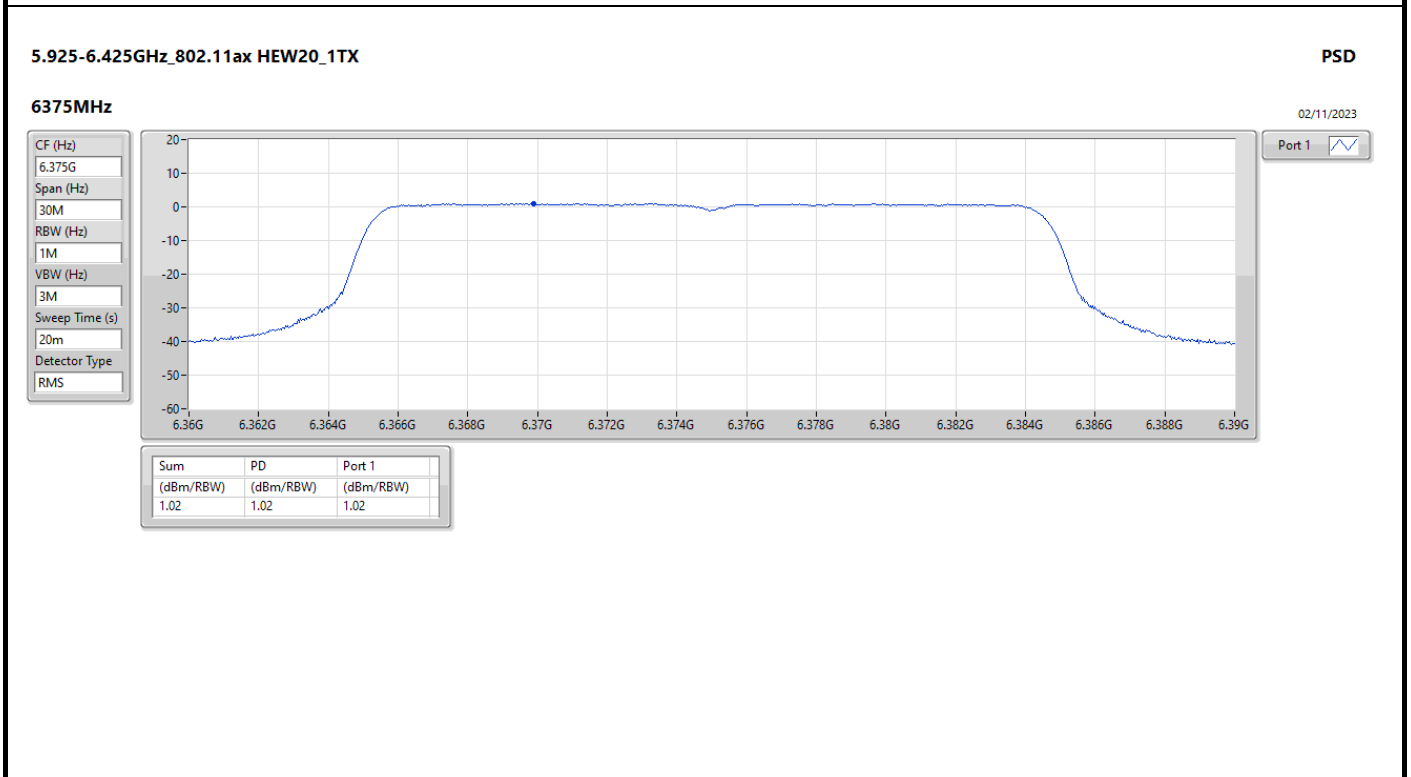
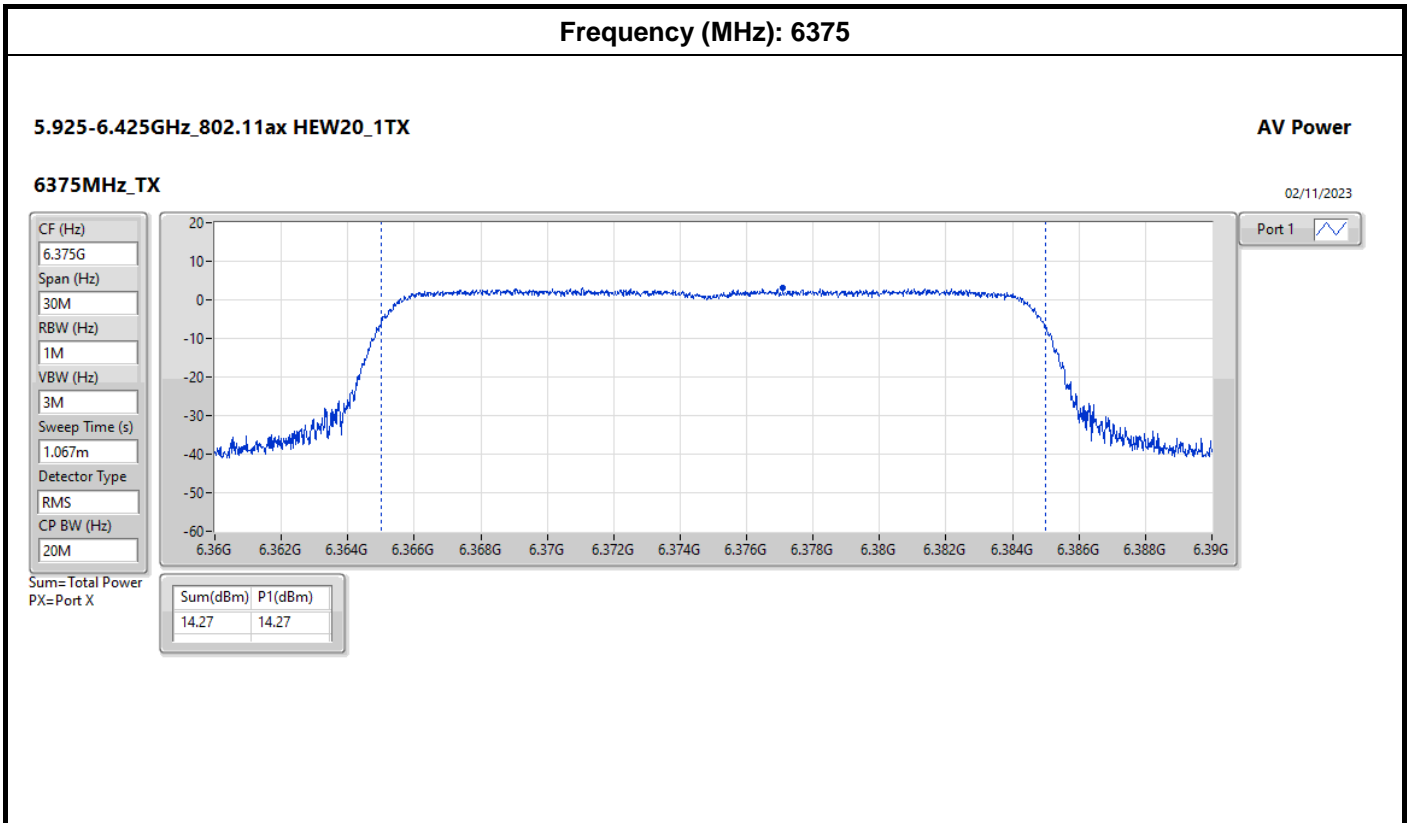

AFC capability - Inquired Channel

AFCD.RSA: Successful registration and spectrum access request											
Freq. (MHz)	Mode	Bandwidth (MHz)	Antenna Gain (dBi)	Power (dBm)	EIRP (dBm)	AFC Response Limit (dBm)	Result	PSD (dBm/MHz)	EIRP PSD (dBm/MHz)	AFC Response Limit (dBm/MHz)	Result
5975	SP	20	7	13.76	20.76	30.88	Pass	0.35	7.35	-	Pass
6375	SP	20	7	14.27	21.27	31.63	Pass	1.02	8.02	-	Pass
6365	SP	40	7	14.65	21.65	27.22	Pass	-1.28	5.72	-	Pass
5965	SP	40	7	14.39	21.39	27.65	Pass	-1.37	5.63	-	Pass
5985	SP	80	7	14.27	21.27	27.55	Pass	-4.49	2.51	-	Pass
6145	SP	80	7	13.91	20.91	29.27	Pass	-4.96	2.04	-	Pass
6345	SP	160	7	13.85	20.85	31.50	Pass	-7.85	-0.85	-	Pass
6025	SP	160	7	13.20	20.20	30.30	Pass	-8.39	-1.39	-	Pass

AFCD.SAU: Successful spectrum access update											
Freq. (MHz)	Mode	Bandwidth (MHz)	Antenna Gain (dBi)	Power (dBm)	EIRP (dBm)	AFC Response Limit (dBm)	Result	PSD (dBm/MHz)	EIRP PSD (dBm/MHz)	AFC Response Limit (dBm/MHz)	Result
6615	SP	20	7	13.44	20.44	30.53	Pass	0.67	7.67	-	Pass

AFCD.UAU: Unsuccessful spectrum access update											
Freq. (MHz)	Mode (LPI or SP)	Bandwidth (MHz)	Antenna Gain (dBi)	Power (dBm)	EIRP (dBm)	AFC Response Limit (dBm)	Result	PSD (dBm/MHz)	EIRP PSD (dBm/MHz)	AFC Response Limit (dBm/MHz)	Result
6695	SP	20	7	13.13	20.13	36.00	Pass	0.42	7.42	-	Pass





CT_AFC_SP_AP_AFCRSA31_Channel_40MHz_10619_1

Frequency (MHz): 6365

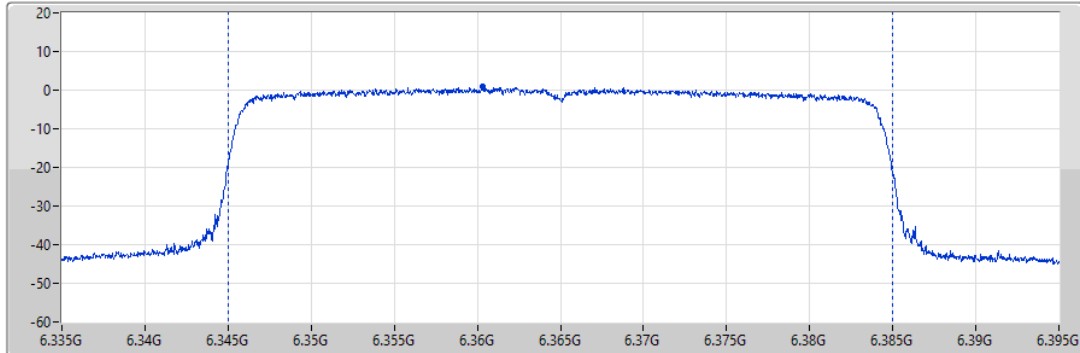
5.925-6.425GHz_802.11ax HEW40_1TX

AV Power

6365MHz_TX

02/11/2023

- CF (Hz)
6.365G
- Span (Hz)
60M
- RBW (Hz)
1M
- VBW (Hz)
3M
- Sweep Time (s)
1.067m
- Detector Type
RMS
- CP BW (Hz)
40M



Port 1

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)
14.65	14.65

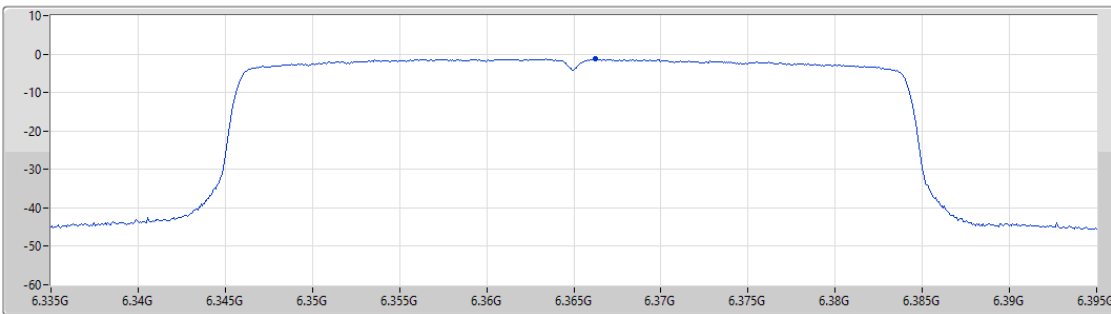
5.925-6.425GHz_802.11ax HEW40_1TX

PSD

6365MHz

02/11/2023

- CF (Hz)
6.365G
- Span (Hz)
60M
- RBW (Hz)
1M
- VBW (Hz)
3M
- Sweep Time (s)
20m
- Detector Type
RMS



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.28	-1.28	-1.28



CT_AFC_SP_AP_AFCDRSA31_Channel_80MHz_10620_1

Frequency (MHz): 5985

5.925-6.425GHz_802.11ax HEW80_1TX

AV Power

5985MHz_TX

02/11/2023

CF (Hz)
5.985G

Span (Hz)
120M

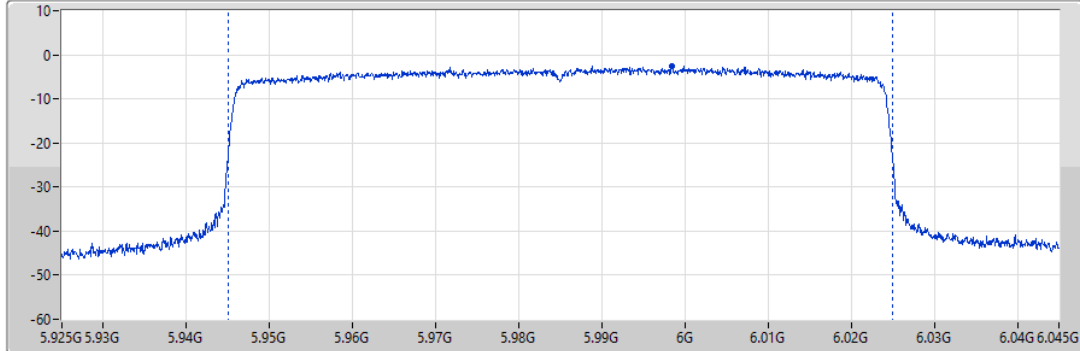
RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
1.067m

Detector Type
RMS

CP BW (Hz)
80M



Port 1

Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)
14.27	14.27

5.925-6.425GHz_802.11ax HEW80_1TX

PSD

5985MHz

02/11/2023

CF (Hz)
5.985G

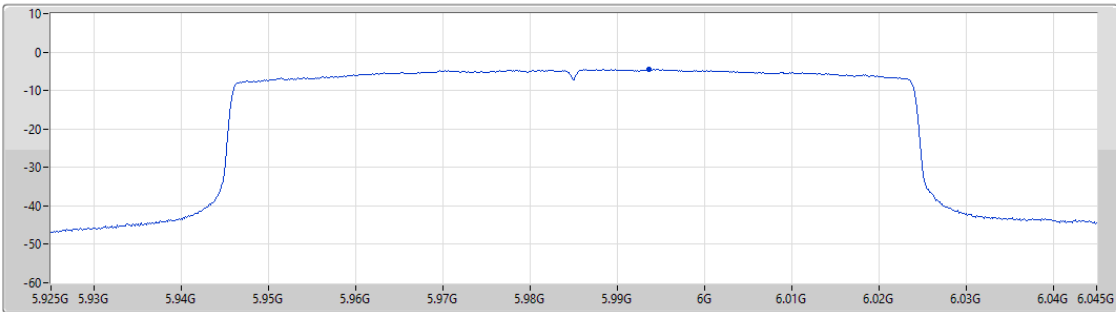
Span (Hz)
120M

RBW (Hz)
1M

VBW (Hz)
3M

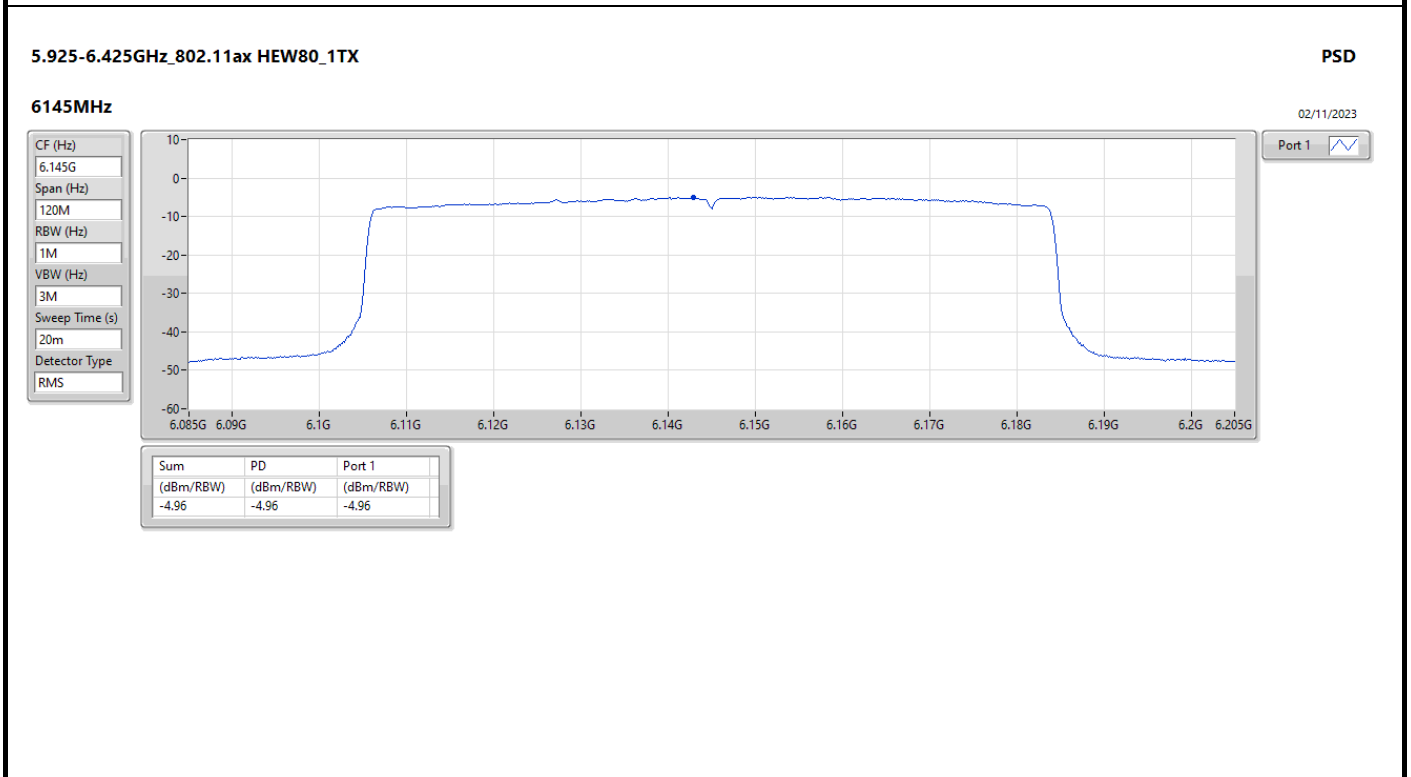
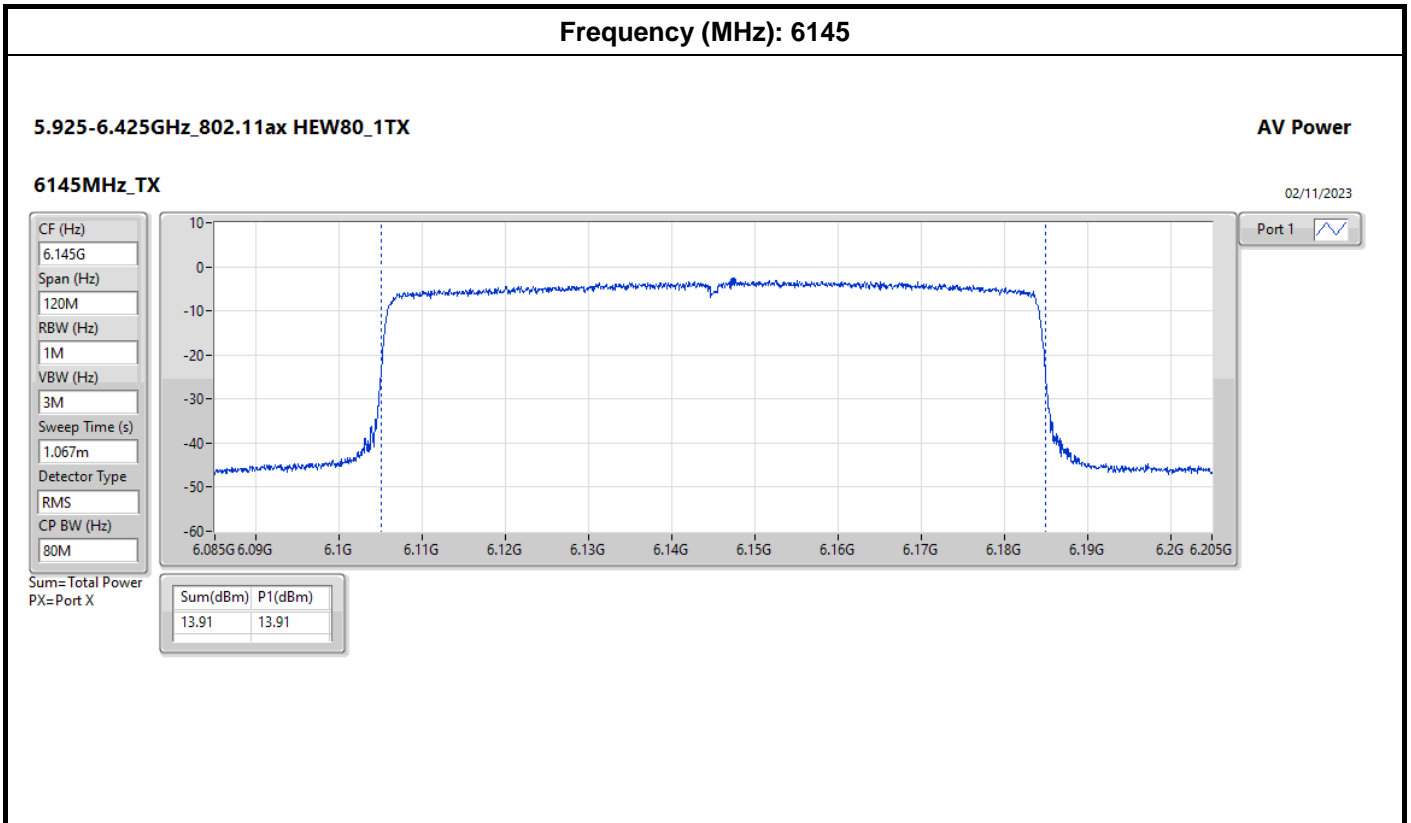
Sweep Time (s)
20m

Detector Type
RMS



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.49	-4.49	-4.49



CT_AFC_SP_AP_AFCDRSA31_Channel_160MHz_10621_1

Frequency (MHz): 6345

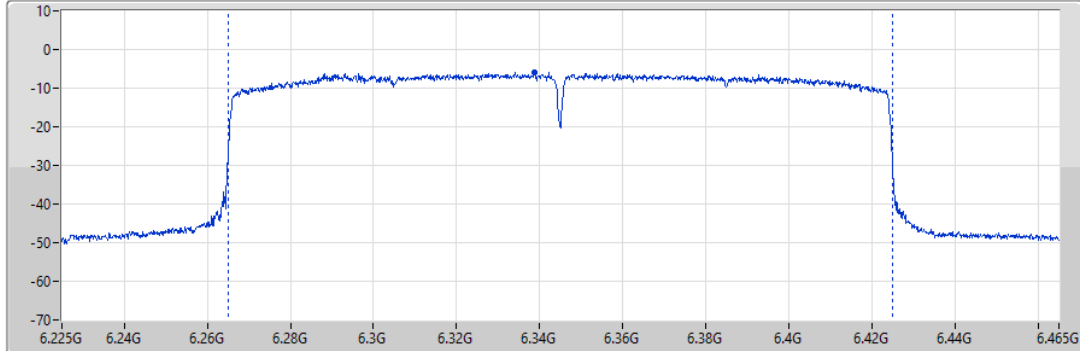
5.925-6.425GHz_802.11ax HEW160_1TX

AV Power

6345MHz_TX

02/11/2023

- CF (Hz)
6.345G
- Span (Hz)
240M
- RBW (Hz)
1M
- VBW (Hz)
3M
- Sweep Time (s)
1.067m
- Detector Type
RMS
- CP BW (Hz)
160M



Port 1

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)
13.85	13.85

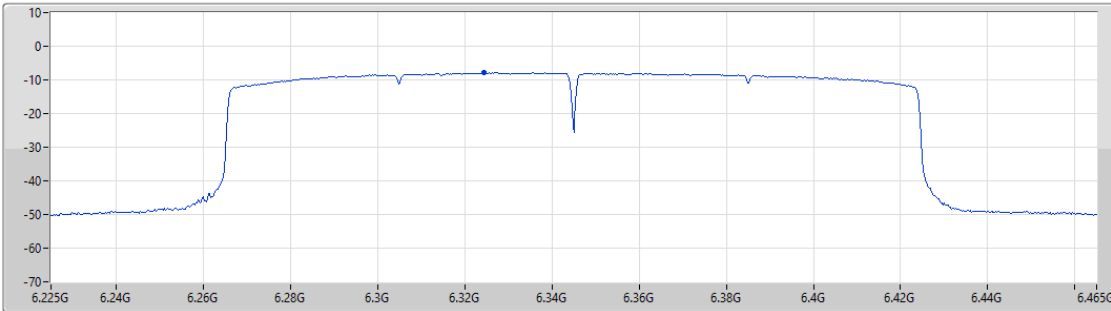
5.925-6.425GHz_802.11ax HEW160_1TX

PSD

6345MHz

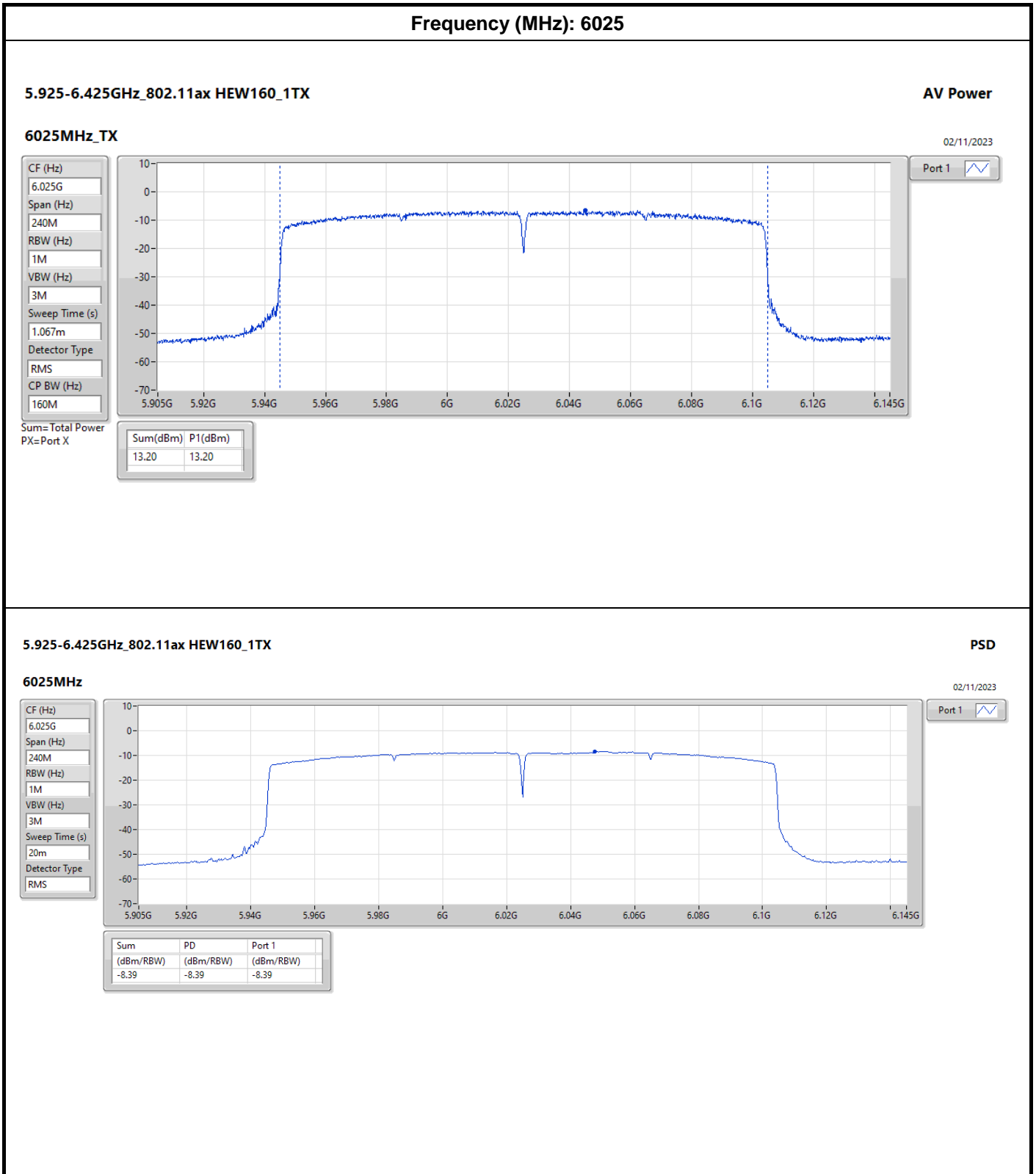
02/11/2023

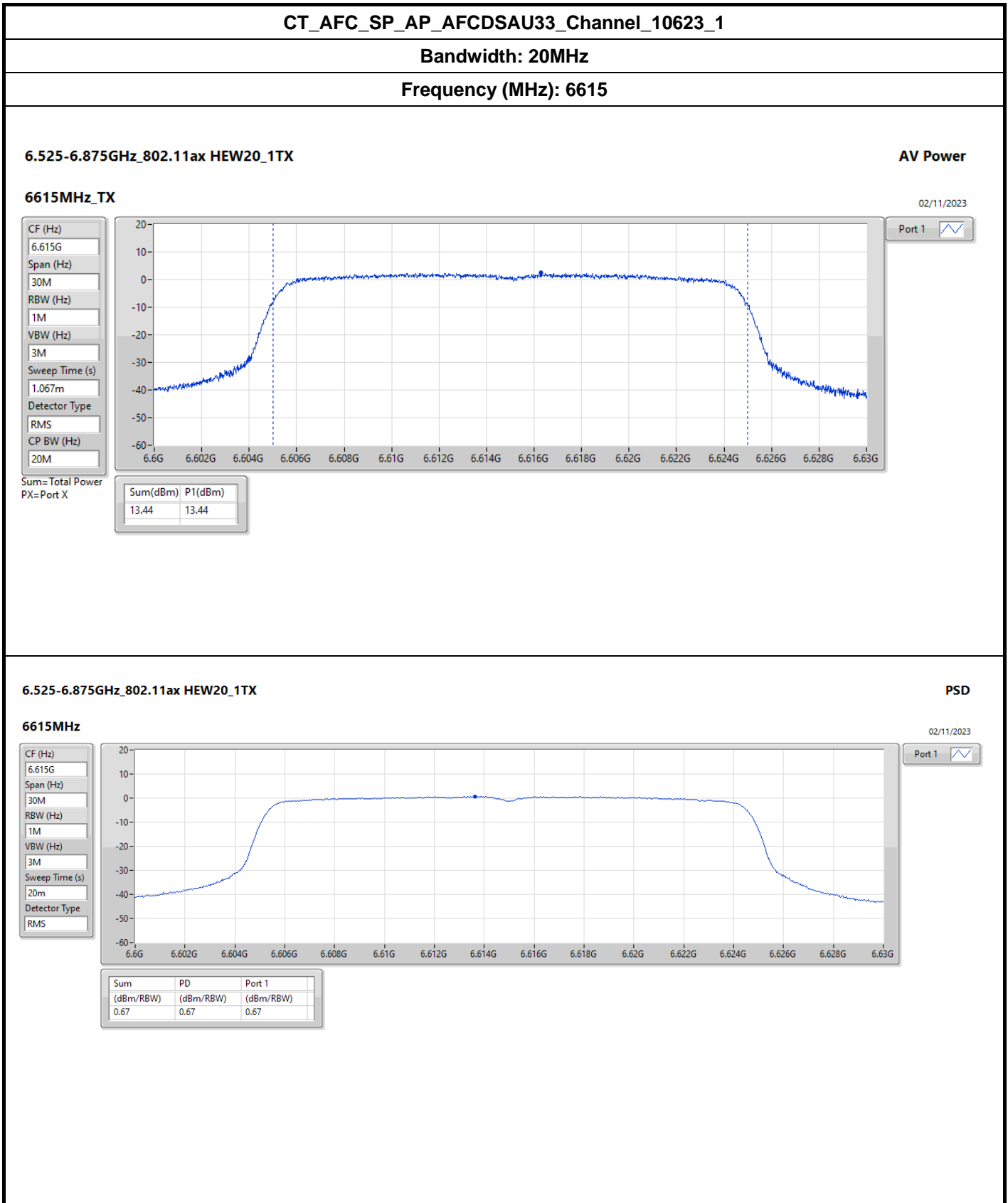
- CF (Hz)
6.345G
- Span (Hz)
240M
- RBW (Hz)
1M
- VBW (Hz)
3M
- Sweep Time (s)
20m
- Detector Type
RMS



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.85	-7.85	-7.85





CT_AFC_SP_AP_AFCDUAU34_Channel_10624_1

Bandwidth: 20MHz

Frequency (MHz): 6695

6.525-6.875GHz_802.11ax HEW20_1TX

AV Power

6695MHz_TX

02/11/2023

CF (Hz)
6.695G

Span (Hz)
30M

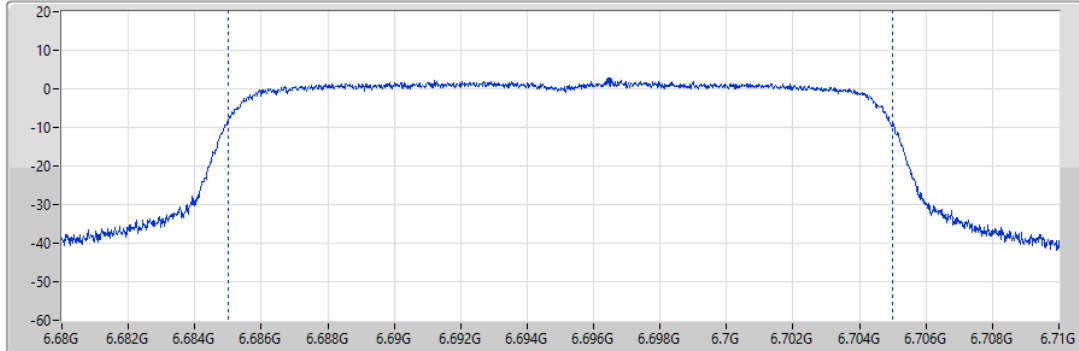
RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
1.067m

Detector Type
RMS

CP BW (Hz)
20M



Port 1

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)
13.13	13.13

6.525-6.875GHz_802.11ax HEW20_1TX

PSD

6695MHz

02/11/2023

CF (Hz)
6.695G

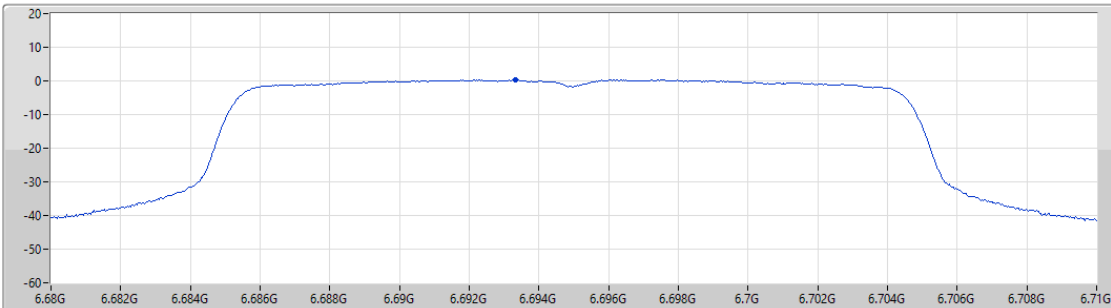
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

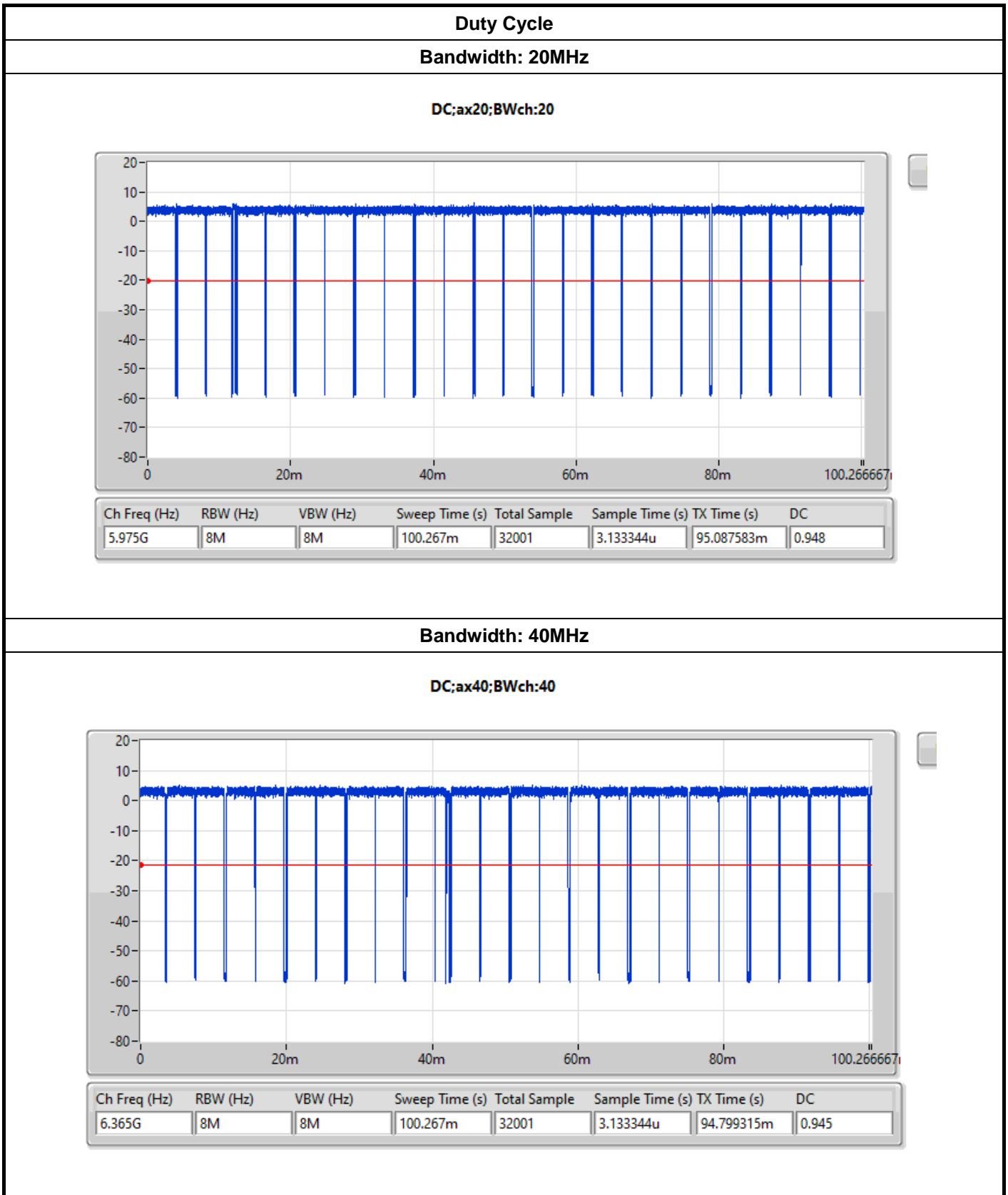
Sweep Time (s)
20m

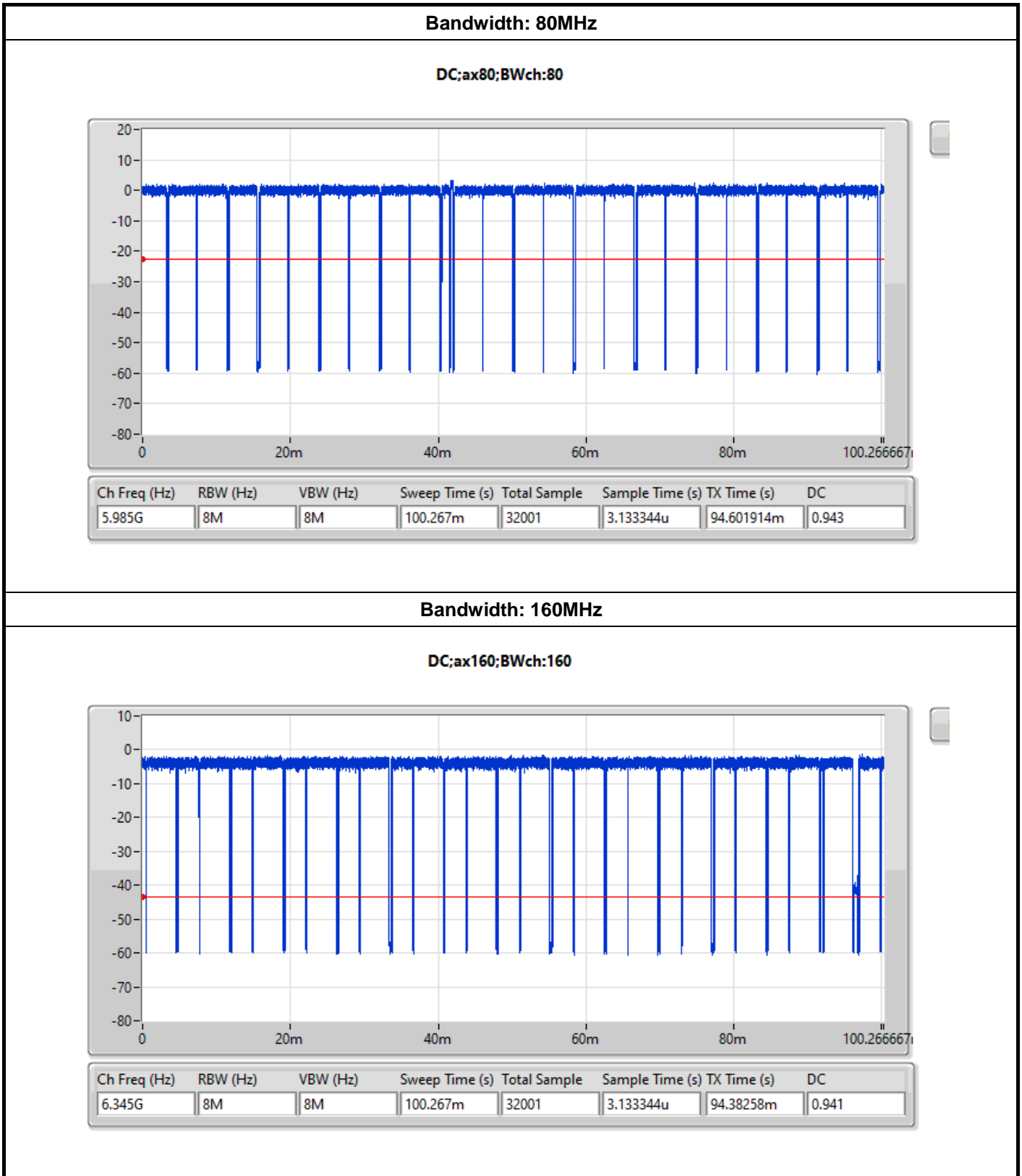
Detector Type
RMS



Port 1

Sum (dBm/RBW)	PD (dBm/RBW)	Port 1 (dBm/RBW)
0.42	0.42	0.42





— THE END —

AFC capability - Inquired Channel

AFCD.RSA: Successful registration and spectrum access request

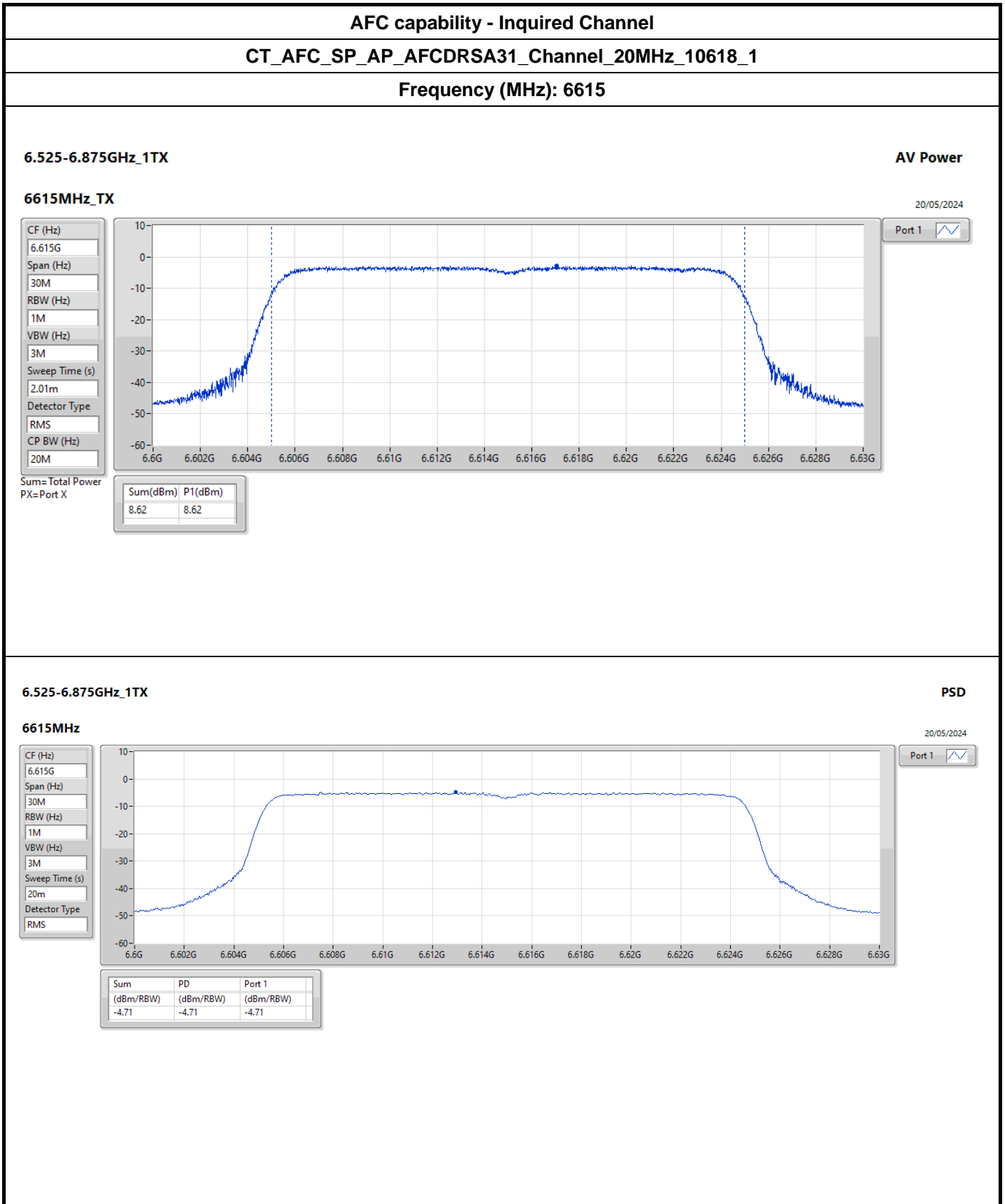
Freq. (MHz)	Mode	Bandwidth (MHz)	Antenna Gain (dBi)	Power (dBm)	EIRP (dBm)	AFC Response Limit (dBm)	Result	PSD (dBm/MHz)	EIRP PSD (dBm/MHz)	AFC Response Limit (dBm/MHz)	Result
6615	SP	20	12.88	8.62	21.50	22.33	Pass	-4.71	8.17	-	Pass
5975	SP	20	12.88	7.09	19.97	22.12	Pass	-6.00	6.88	-	Pass
6605	SP	40	12.88	9.02	21.90	25.92	Pass	-7.25	5.63	-	Pass
6205	SP	40	12.88	12.62	25.50	35.56	Pass	-3.33	9.55	-	Pass
6385	SP	80	12.88	12.97	25.85	28.57	Pass	-6.08	6.80	-	Pass
6145	SP	80	12.88	12.31	25.19	28.86	Pass	-6.60	6.28	-	Pass
6025	SP	160	12.88	11.54	24.42	31.15	Pass	-9.87	3.01	-	Pass
6345	SP	160	12.88	12.56	25.44	30.86	Pass	-9.12	3.76	-	Pass

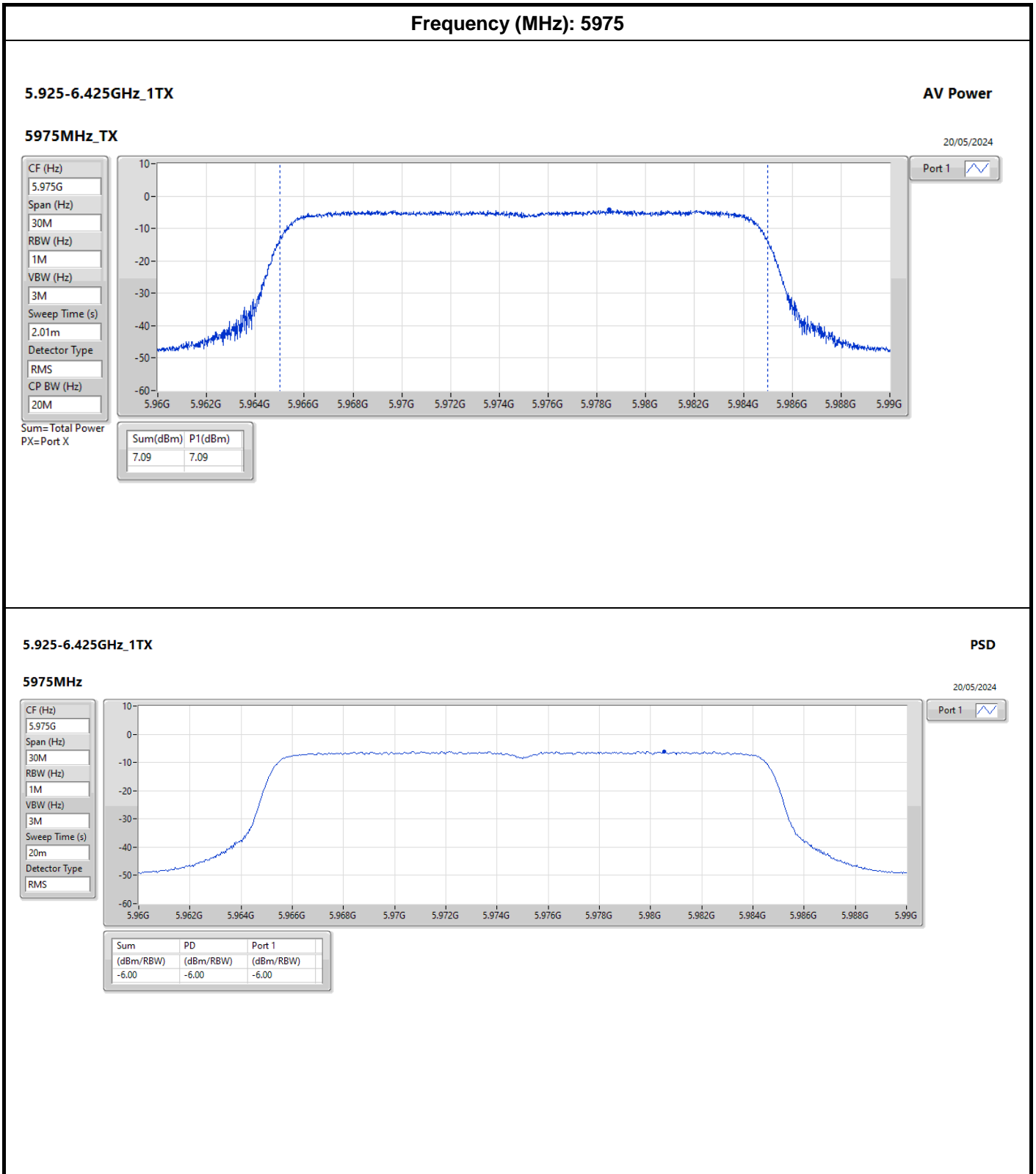
AFCD.SAU: Successful spectrum access update

Freq. (MHz)	Mode	Bandwidth (MHz)	Antenna Gain (dBi)	Power (dBm)	EIRP (dBm)	AFC Response Limit (dBm)	Result	PSD (dBm/MHz)	EIRP PSD (dBm/MHz)	AFC Response Limit (dBm/MHz)	Result
6615	SP	20	12.88	12.19	25.07	31.48	Pass	-1.38	11.50	-	Pass

AFCD.UAU: Unsuccessful spectrum access update

Freq. (MHz)	Mode (LPI or SP)	Bandwidth (MHz)	Antenna Gain (dBi)	Power (dBm)	EIRP (dBm)	AFC Response Limit (dBm)	Result	PSD (dBm/MHz)	EIRP PSD (dBm/MHz)	AFC Response Limit (dBm/MHz)	Result
6615	SP	20	12.88	11.74	24.62	36.00	Pass	-0.91	11.97	-	Pass





CT_AFC_SP_AP_AFCRSA31_Channel_40MHz_10619_1

Frequency (MHz): 6605

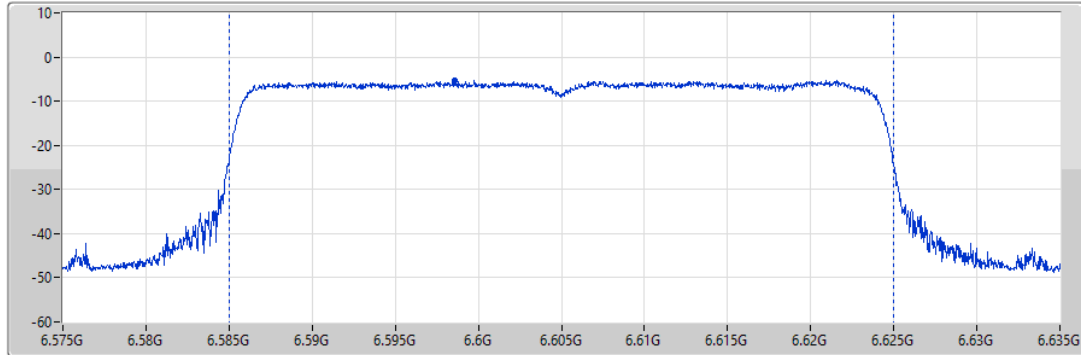
6.525-6.875GHz_1TX

AV Power

6605MHz_TX

20/05/2024

- CF (Hz)
6.605G
- Span (Hz)
60M
- RBW (Hz)
1M
- VBW (Hz)
3M
- Sweep Time (s)
2.01m
- Detector Type
RMS
- CP BW (Hz)
40M



Port 1

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)
9.02	9.02

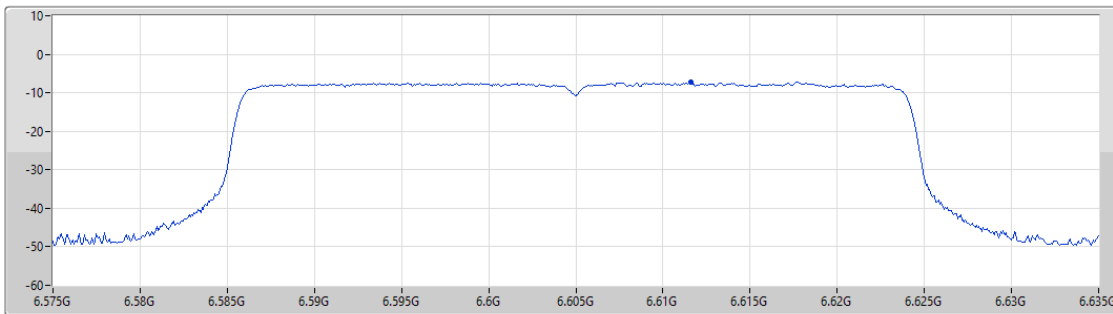
6.525-6.875GHz_1TX

PSD

6605MHz

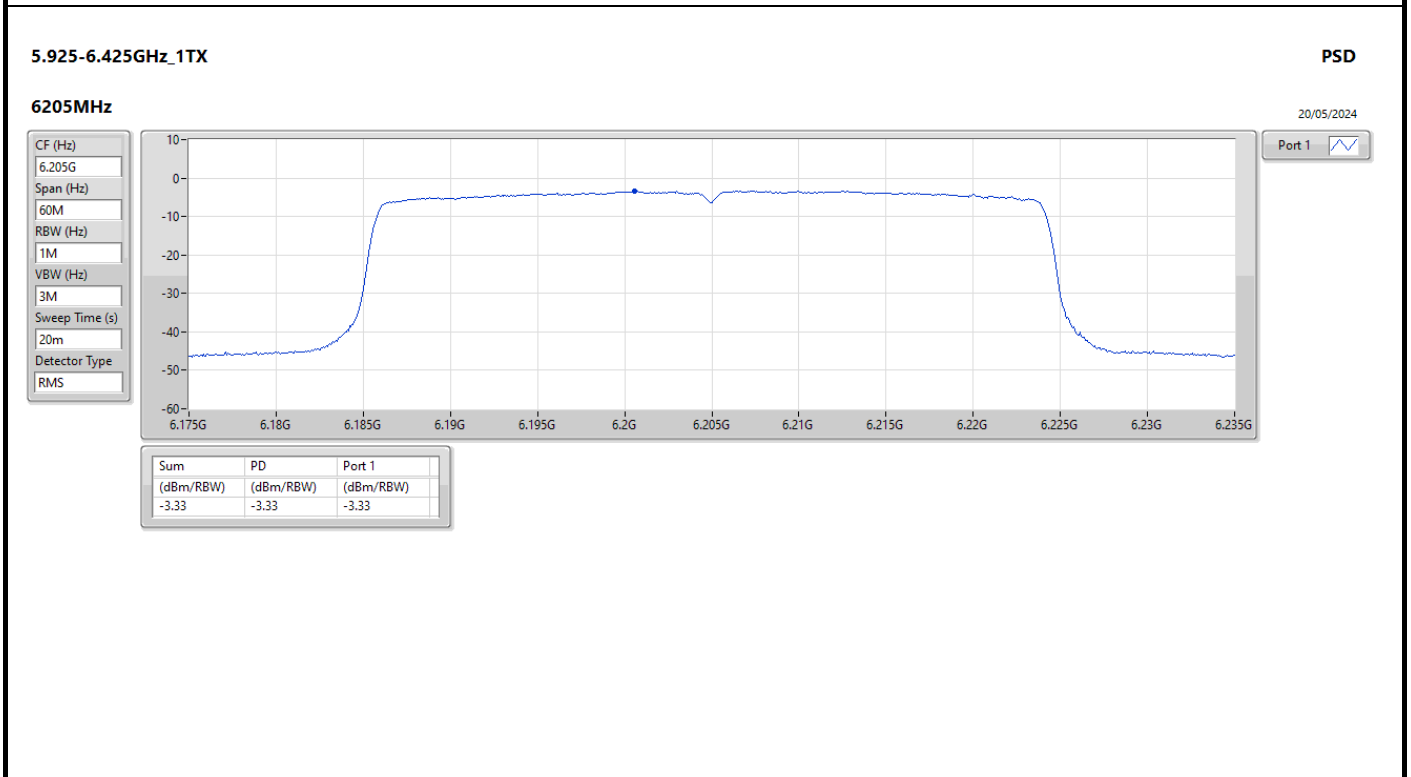
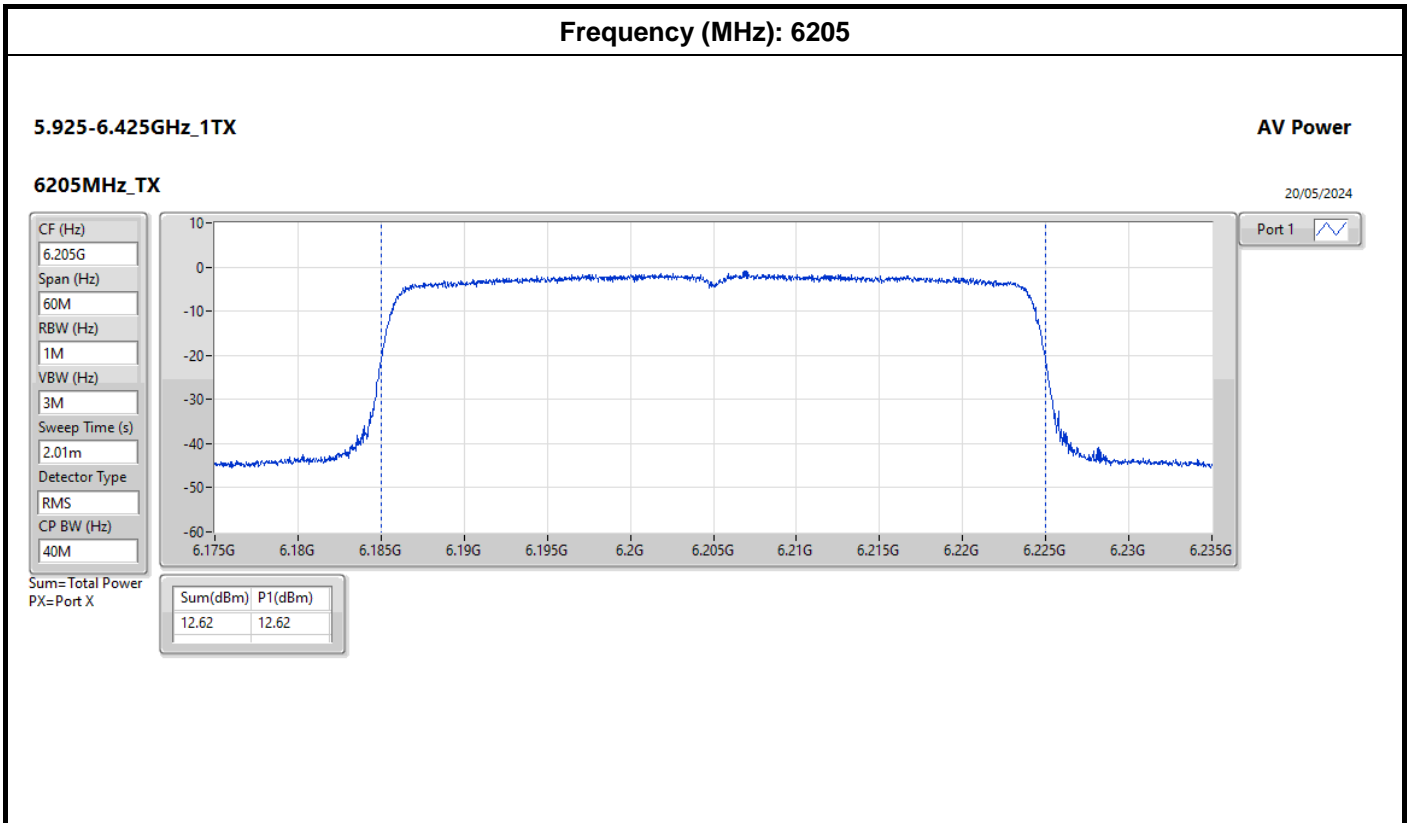
20/05/2024

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



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.25	-7.25	-7.25



CT_AFC_SP_AP_AFCDRSA31_Channel_80MHz_10620_1

Frequency (MHz): 6385

5.925-6.425GHz_1TX

AV Power

6385MHz_TX

20/05/2024

CF (Hz)
6.385G

Span (Hz)
120M

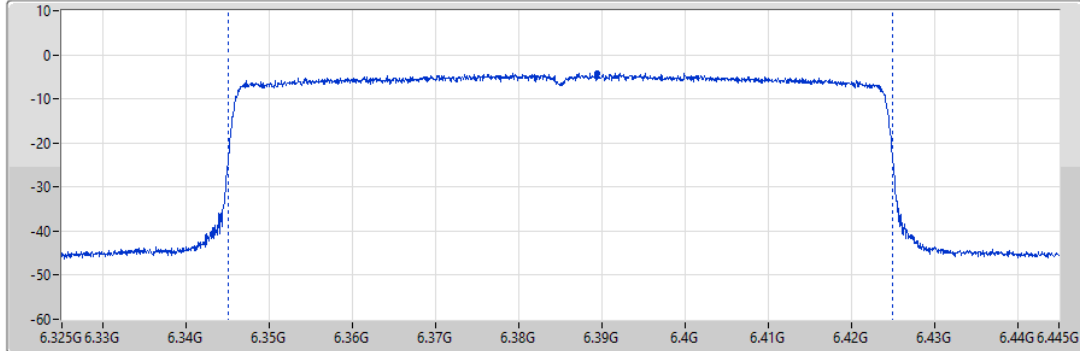
RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
2.01m

Detector Type
RMS

CP BW (Hz)
80M



Port 1

Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)
12.97	12.97

5.925-6.425GHz_1TX

PSD

6385MHz

20/05/2024

CF (Hz)
6.385G

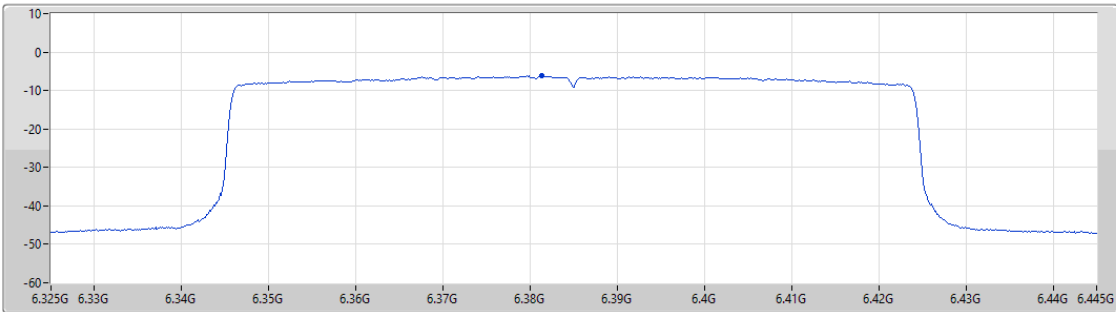
Span (Hz)
120M

RBW (Hz)
1M

VBW (Hz)
3M

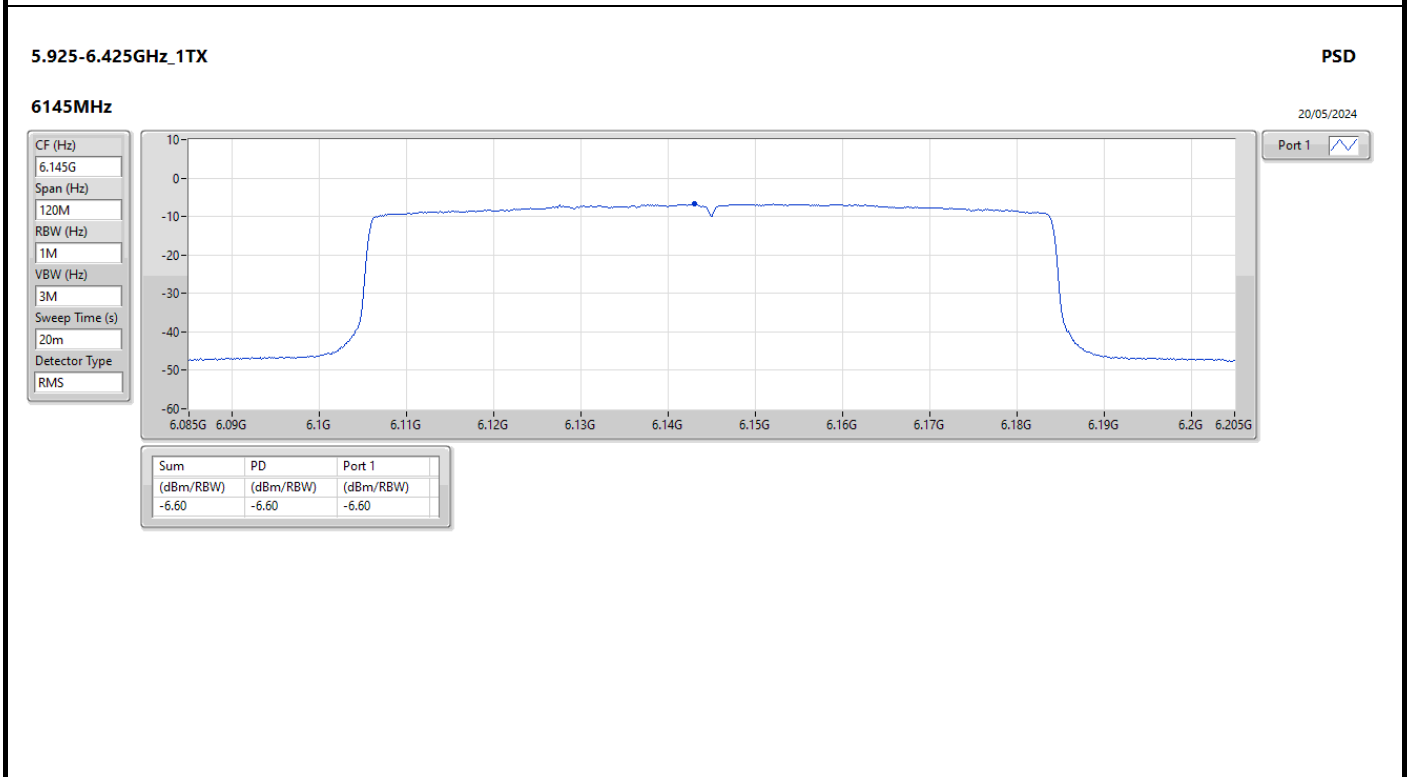
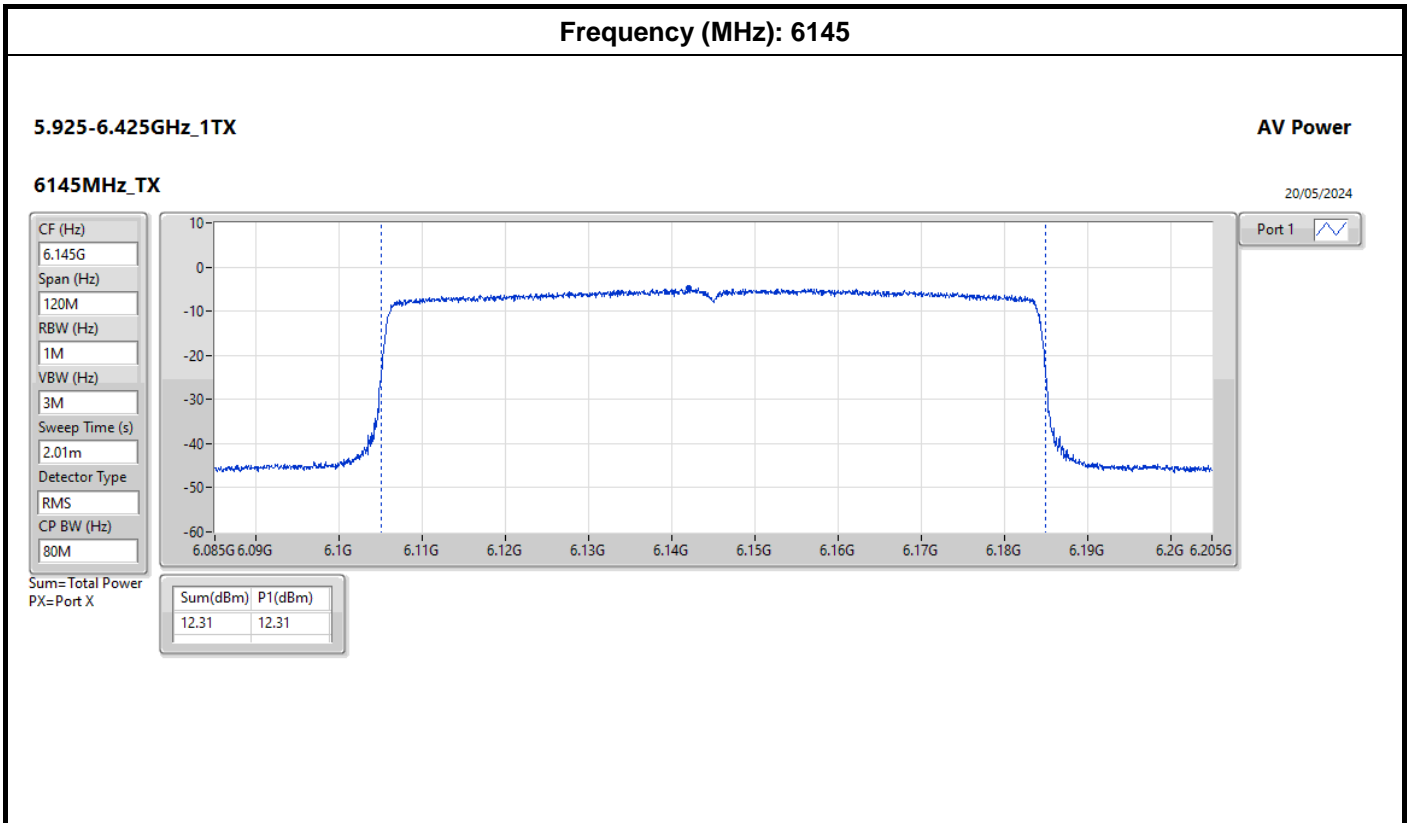
Sweep Time (s)
20m

Detector Type
RMS



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.08	-6.08	-6.08



CT_AFC_SP_AP_AFCDRSA31_Channel_160MHz_10621_1

Frequency (MHz): 6025

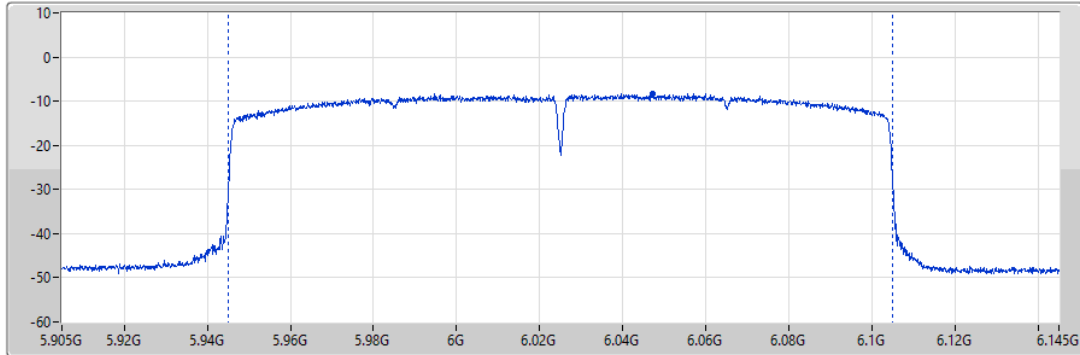
5.925-6.425GHz_1TX

AV Power

6025MHz_TX

20/05/2024

CF (Hz)
6.025G
Span (Hz)
240M
RBW (Hz)
1M
VBW (Hz)
3M
Sweep Time (s)
2.01m
Detector Type
RMS
CP BW (Hz)
160M



Port 1

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)
11.54	11.54

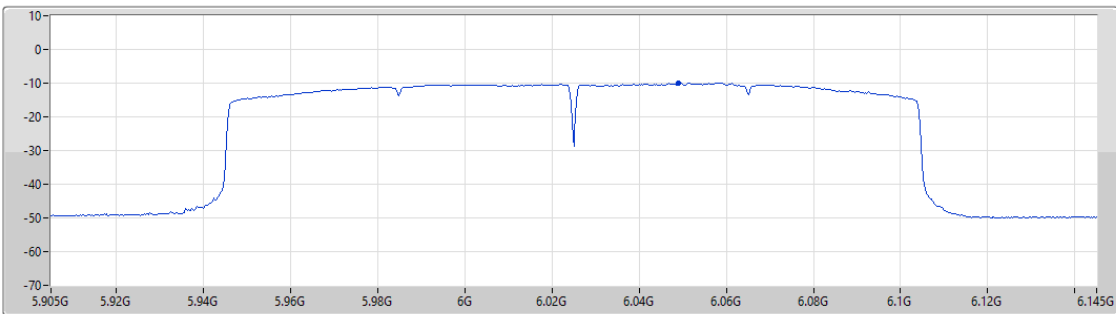
5.925-6.425GHz_1TX

PSD

6025MHz

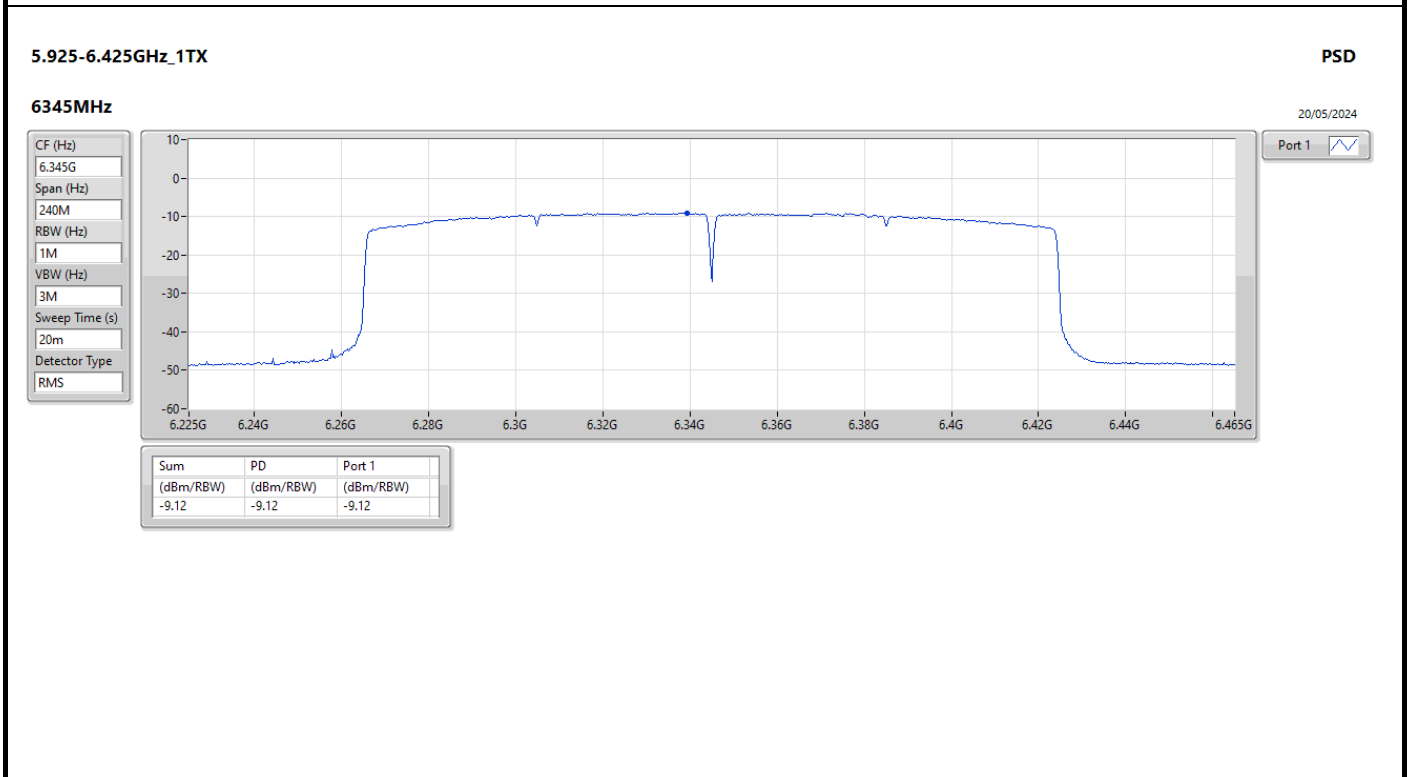
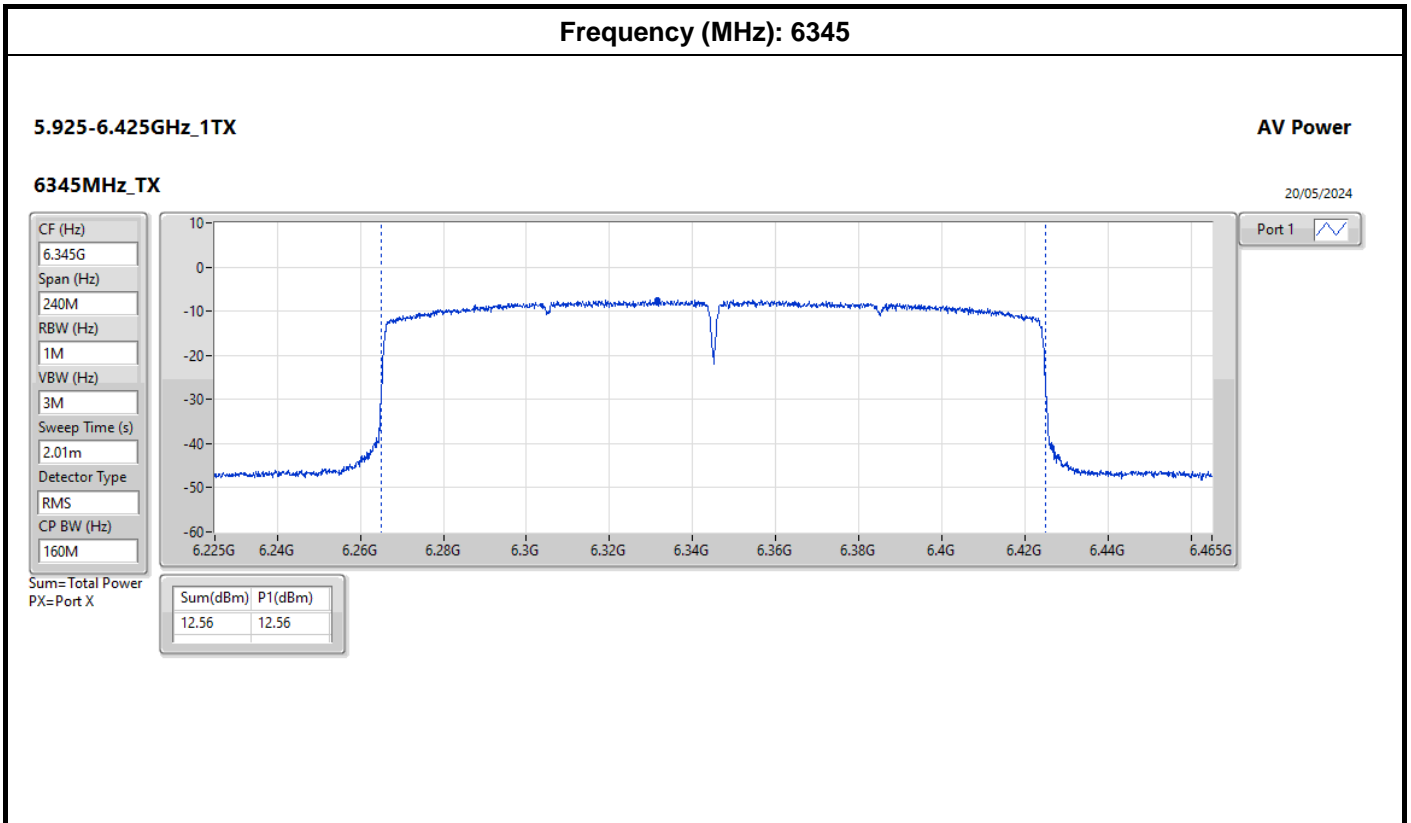
20/05/2024

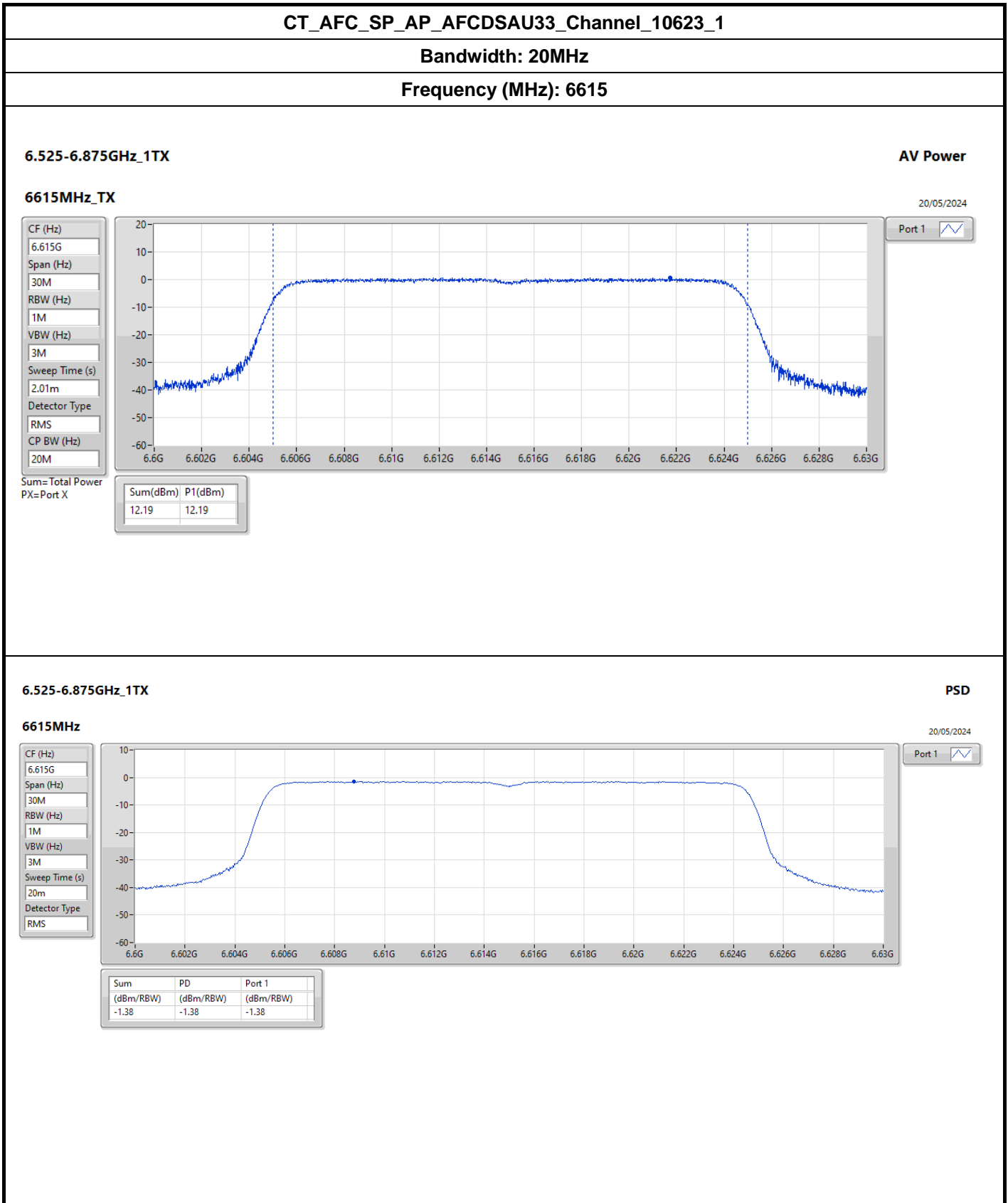
CF (Hz)
6.025G
Span (Hz)
240M
RBW (Hz)
1M
VBW (Hz)
3M
Sweep Time (s)
20m
Detector Type
RMS



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.87	-9.87	-9.87





CT_AFC_SP_AP_AFCDUAU34_Channel_10624_1

Bandwidth: 20MHz

Frequency (MHz): 6615

6.525-6.875GHz_1TX

AV Power

6615MHz_TX

20/05/2024

CF (Hz)
6.615G

Span (Hz)
30M

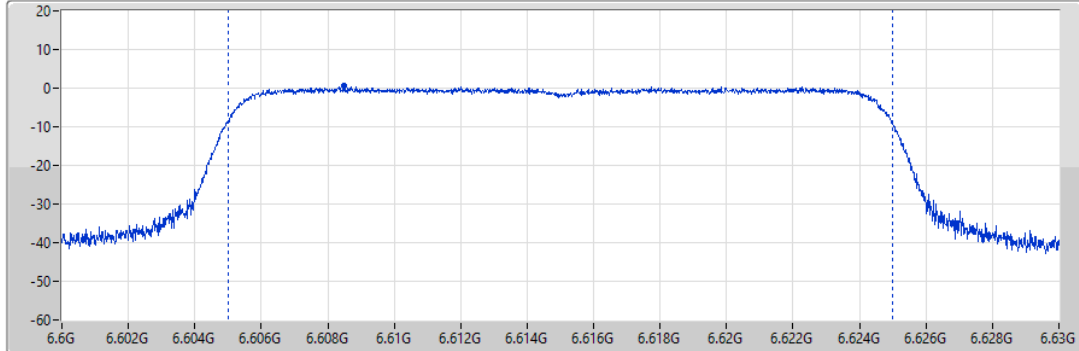
RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
2.01m

Detector Type
RMS

CP BW (Hz)
20M



Port 1

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)
11.74	11.74

6.525-6.875GHz_1TX

PSD

6615MHz

20/05/2024

CF (Hz)
6.615G

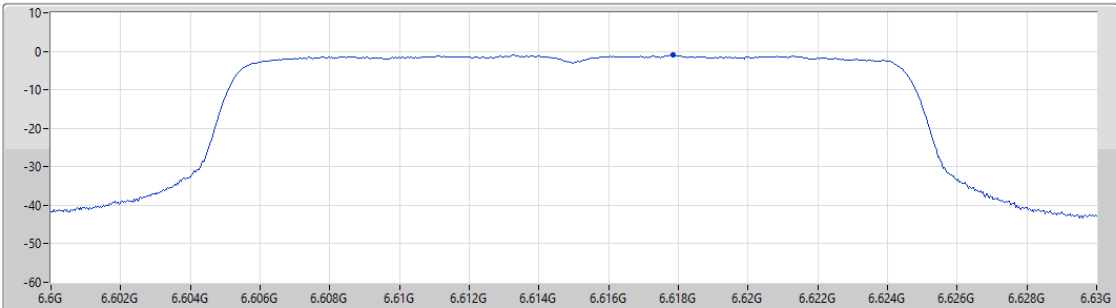
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

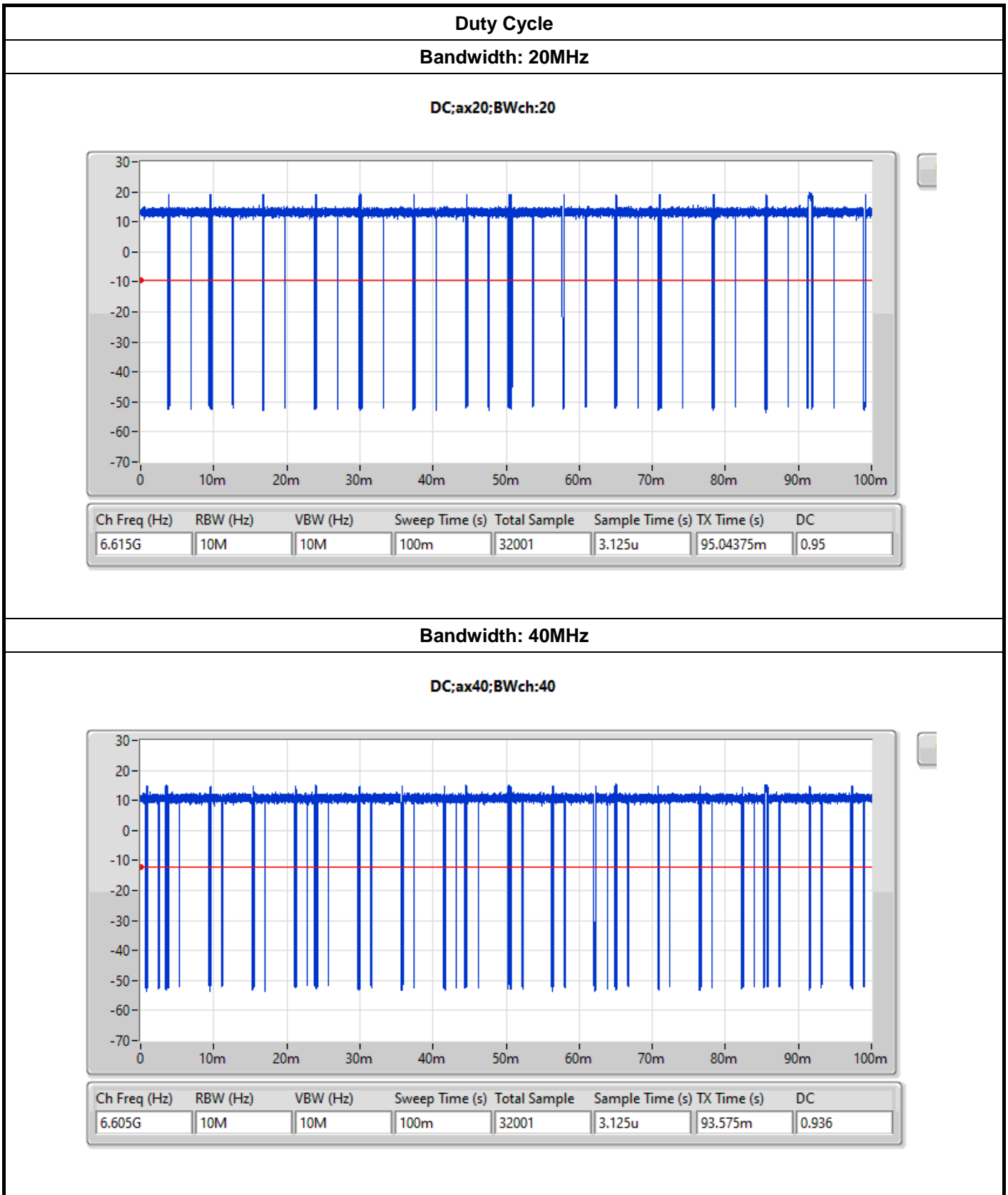
Sweep Time (s)
20m

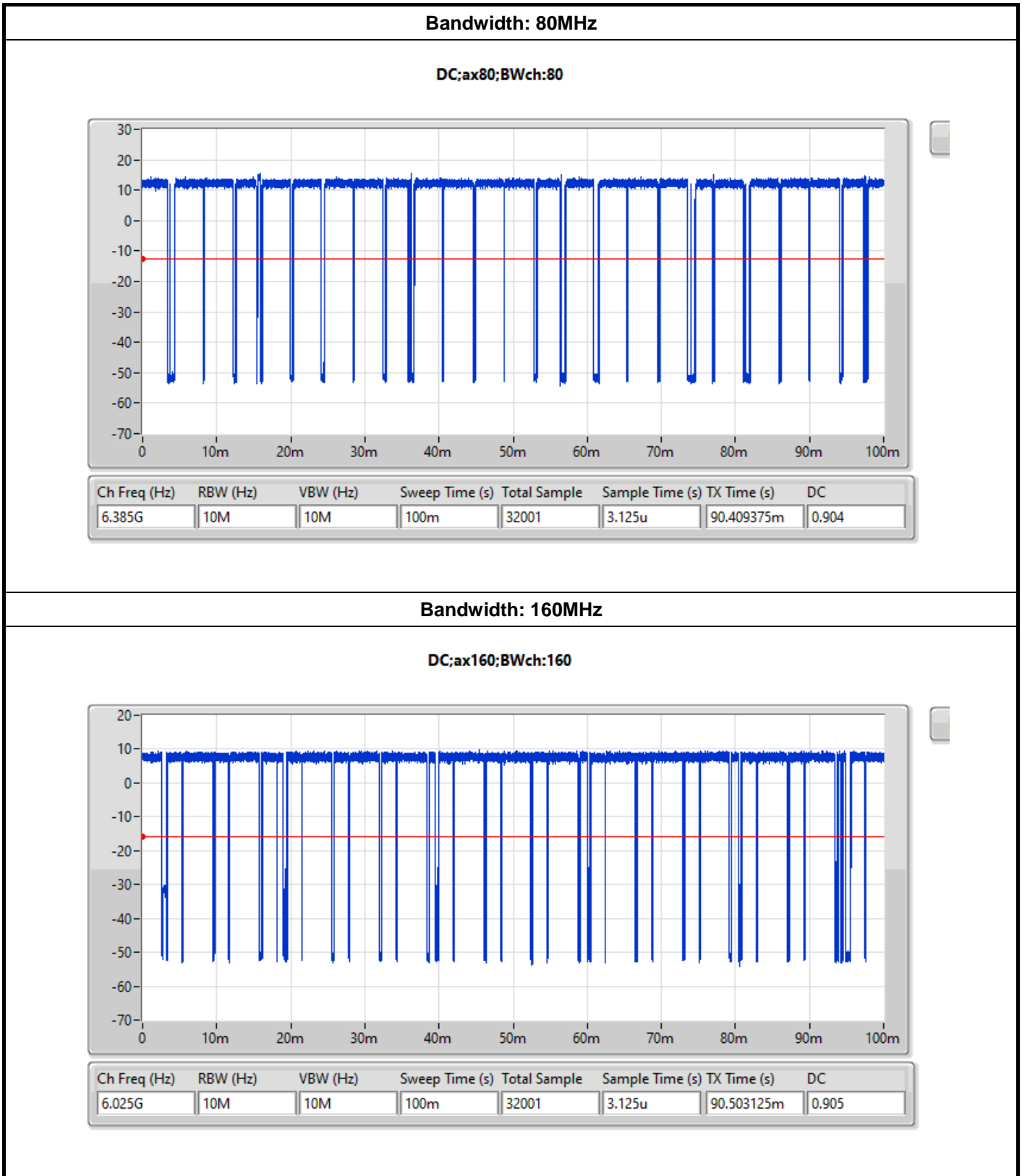
Detector Type
RMS



Port 1

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





—THE END—