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Report No.: R25S1080046-U203 Report Version: V01 Issue Date: 2025-08-12

RF MEASUREMENT REPORT

FCC ID: 2BH7FEAP787

Applicant: TP-Link Systems Inc.

Product: BE15000 Ceiling Mount Tri-Band Wi-Fi 7 Access Point

Model No.: EAP787

Brand Name: tp-link

FCC Classification: 15E 6GHz Standard Power Access Point (6SD)

FCC Rule Part(s): Part 15 Subpart E (Section 15.407)

Result: Complies

Received Date: 2025-04-10

Test Date: 2025-07-15 ~ 2025-07-21

Approved By:

Reviewed By:

Kevin Guo

Robin Wu

Robin Wu

Kevin Guo

ACCREDITED

TESTING LABORATORY
CERTIFICATE #3628.01

The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB789033. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Template Version: 2.0



Revision History

Report No. Version		Description	Issue Date	Note	
R25S1080046-U203	V01	Initial Report	2025-08-12	Valid	



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1. General Information

1.1. Applicant

TP-Link Systems Inc.

10 Mauchly, Irvine, CA 92618

1.2. Manufacturer

TP-Link Systems Inc.

10 Mauchly, Irvine, CA 92618

1.3. Testing Facility

\boxtimes	Test Site – MRT Suzhou Laboratory								
	Laboratory Location (Suzhou - Wuzhong)								
D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, Ch									
	Laboratory Location (Suzhou - SIP)								
	4b Building, Liand	Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China							
	Laboratory Loca	ntion (Suzhou - Wu	jiang)						
	Building 1, No.1 >	Kingdong Road, Wu	jiang, Suzhou, Jiangs	su, People's Republi	c of China				
	Laboratory Accr	editations							
	A2LA: 3628.01		CNAS	: L10551					
	FCC: CN1166		ISED:	CN0001					
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	□R-20025	□G-20034	□C-20020	□T-20020				
	VCCI:	□R-20141	□G-20134	□C-20103	□T-20104				
	Test Site - MRT	Shenzhen Laborat	ory						
	Laboratory Loca	ntion (Shenzhen)							
	1G, Building A, Ju	unxiangda Building,	Zhongshanyuan Roa	d West, Nanshan Di	strict, Shenzhen,				
	China								
	Laboratory Accr	editations							
	A2LA: 3628.02		CNAS	: L10551					
	FCC: CN1284		ISED:	CN0105					
	Test Site - MRT	Taiwan Laboratory	1						
	Laboratory Loca	ntion (Taiwan)							
No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)									
	Laboratory Accr	editations							
	TAF: 3261								
	FCC: 291082, TV	V3261	ISED:	TW3261					



1.4. Product Information

Product Name	BE15000 Ceiling Mount Tri-Band Wi-	BE15000 Ceiling Mount Tri-Band Wi-Fi 7 Access Point		
Model No.	EAP787	EAP787		
EUT Identification No.	20250711Sample#03			
DUT Type				
DUT Type	☐ Fixed Client			
Drovy	☐ With Proxy			
Proxy				
Wi-Fi Specification	802.11a/b/g/n/ac/ax/be			
Bluetooth Specification	BLE 1Mbps			
Antenna Information	Refer to section 1.7			
Power Type	Power Adapter or PoE			
Operating Temperature	0 ~ 40 °C			
Operating Environment	☐ Outdoor Use			
Note: The information of the EUT (Equipment Under Test) was provided by the manufacturer. The accuracy,				
completeness, and validity of the information are solely the responsibility of the manufacturer.				

1.5. Radio Specification under Test

Frequency Range	UNII-5: 5925 ~ 6425 MHz					
	UNII-7: 6525 ~ 6875 MI	Hz				
Type of Modulation	802.11ax/be: OFDMA					
Data Rate	802.11ax: up to 2402Ml	802.11ax: up to 2402Mbps				
	802.11be: up to 5764M	ops				
Support RU		☐ Partial RU	☐ Single RU			
			☐ Multi RU			
			☐ Channel Puncturing			



1.6. Working Frequencies

802.11ax-HE20/be-EHT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
33	6115 MHz	37	6135 MHz	41	6155 MHz
45	6175 MHz	49	6195 MHz	53	6215 MHz
57	6235 MHz	61	6255 MHz	65	6275 MHz
69	6295 MHz	73	6315 MHz	77	6335 MHz
81	6355 MHz	85	6375 MHz	89	6395 MHz
93	6415 MHz	117	6535 MHz	121	6555 MHz
125	6575 MHz	129	6595 MHz	133	6615 MHz
137	6635 MHz	141	6655 MHz	145	6675 MHz
149	6695 MHz	153	6715 MHz	157	6735 MHz
161	6755 MHz	165	6775 MHz	169	6795 MHz
173	6815 MHz	177	6835 MHz	181	6855 MHz

802.11ax-HE40/be-EHT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
35	35 6125 MHz		6165 MHz	51	6205 MHz
59	6245 MHz	67	6285 MHz	75	6325 MHz
83	6365 MHz	91	6405 MHz	123	6565 MHz
131	6605 MHz	139	6645 MHz	147	6685 MHz
155	6725 MHz	163	6765 MHz	171	6805 MHz
179	6845 MHz				

802.11ax-HE80/be-EHT80

Channel	Frequency	Channel	Frequency	Channel	Frequency
39	6145 MHz	55	6225 MHz	71	6305 MHz
87	6385 MHz	135	6625 MHz	151	6705 MHz
167	6785 MHz	-			



802.11ax-HE160/be-EHT160

	Channel Frequency		Channel Frequency		Channel	Frequency
ľ	47	6185 MHz	79	6345 MHz	143	6665 MHz

802.11be-EHT320

Channel	Frequency	Channel	Frequency	Channel	Frequency
63	6265 MHz				

1.7. Antenna Details

ĺ	Antenna	Frequency	T _X	Number	Antenr	a Gain	Beamforming	CDD Direc	tional Gain
	Туре	Band	Paths	of spatial	(d	Bi)	Directional	(dl	Bi)
		(MHz)		streams	Ant 0	Ant 1	Gain (dBi)	For Power	For PSD
	PIFA	5945 ~ 7125	2	1	2.0	2.0	5.01	2.0	5.01

Remark:

The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.
 If all antennas have the same gain, G_{ANT}, Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

• For power spectral density (PSD) measurements on all devices,

Array Gain = 10 log (N_{ANT}/ N_{SS}) dB;

• For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB for $N_{ANT} \le 4$;

- 2. The EUT also supports Beam Forming mode, BF Directional gain = G_{ANT} + 10 log (N_{ANT}).
- 3. The information as above is from the antenna report.



1.8. AFCD General Capabilities Declaration

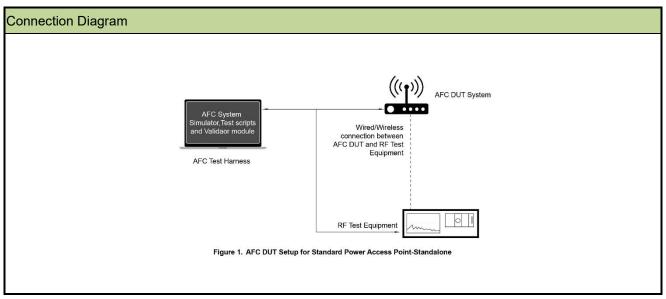
Item	Question	Vendor response	
1	AFC DUT Type	Standalone AP	
	Does the AFC DUT supports sending an Available Spectrum		
2	Inquiry Request based on the inquired Frequency Range	Yes	
	field?		
3	Does the AFC DUT supports sending an Available Spectrum	Yes	
3	Inquiry Request based on the inquired Channels fields?	165	
4	If the Answer to Items 2 and 3 is "Yes", what is AFC DUT's	Both	
4	default inquiry type?	Botti	
5	Does the AFC DUT need to be supplied with BSS	Yes	
3	configuration parameters?	165	
6	Does the AFC DUT manufacturer attest to AFC DUT	Yes	
0	compliance with rules for LPI operation?	165	
	Does the AFC DUT need to be supplied with mandatory		
7	registration information to formulate an Available Spectrum	No	
	Inquiry Request		
8	If the Answer to Item 7 is "Yes". What is the geographic	N/A	
0	Supported by the AFC DUT?	IVA	
9	Does the AFC DUT support 160 MHz channel width	Yes	
9	operation?	165	
10	Which method does AFC DUT acting as a Fixed Client uses	N/A	
10	for sending an Available Spectrum Inquiry Request?	IVA	

Note: The above information was declared by manufacturer



2. Test Configuration

2.1. Test system connection diagram



2.2. Applied Standards

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

- FCC KDB 987594 D05v01r01
- FCC KDB 987594 D01v03r01
- 47 CFR FCC Part 15.407
- ANSI C63.10 2013
- The test guidance is the "AFC Device (AFC DUT) Compliance Test Plan", and the version was 1.7.

2.3. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20 ~ 75%RH



3. Measuring Equipment

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2026-04-26	WZ-SR5

Software	Version	Manufacturer	Function
AFC Test Harness	V 2.0.65.184	Wi-Fi Alliance	AFC Test Software

Client Information

Instrument	Manufacturer	Type No.	Certification Number
Wireless Network Adapter	Intel	Intel(R) Wi-Fi 7 BE200 320MHz	FCC ID: PD9BE200NG



4. Decision Rules and Measurement Uncertainty

4.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

4.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Output Power

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

1.5dB

Power Spectrum Density

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

2.5dB



5. Test Result

5.1. Summary

FCC Section(s)	Requirement	Verdict	
15.407(k)(1)	Transmit only as instructed by AFC System	Pass	
15 407(k)(9)(i)	Register with AFC System prior to initial transmission.	D	
15.407(k)(8)(i)	Register with AFC System after change of location	Pass	
15 407(k)(9)(ii)	Provide required registration parameters.	Door	
15.407(k)(8)(ii)	Update AFC System upon change of registration parameters	Pass	
15.407(k)(8)(iii)	Registration either directly or via Network Element/Proxy	Pass	
	The device can adjust accordingly to subsequent 'daily' AFC		
15.407(k)(8)(iv)	responses with the latest list of available frequencies and the	Pass	
	maximum permissible power		
15.407(k)(8)(v)	Security of connection to AFC	Pass	
15.407(k)(9)(i)	Report location and uncertainty from power-off condition	Pass	

Ref Std. Clause	Test Case Name	Result		
AFC capability – Inquired Frequency & Channel				
3.1.4	CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_20MHz_10625_1	Pass		
3.1.4	CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_40MHz_10626_1	Pass		
3.1.4	CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_80MHz_10627_1	Pass		
3.1.4	CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_160MHz_10628_1	Pass		
3.1.4	CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_320MHz_10715_1	Pass		
3.2.4	CT_AFC_SP_AP_AFCDUSA32_FrequencyChannel_10629_1	Pass		
3.3.4	CT_AFC_SP_AP_AFCDSAU33_FrequencyChannel_10630_1	Pass		
3.4.4	CT_AFC_SP_AP_AFCDUAU34_FrequencyChannel_10631_1	Pass		
AFC capability - Se	erver Validation – Mandatory			
3.5.4	CT_AFC_ServerValidation_AP_AFCDUSV35_NonMatchSAN_10632_1	Pass		
3.5.4	CT_AFC_ServerValidation_AP_AFCDUSV35_DifferentRootCA_10633_1	Pass		
3.5.4	CT_AFC_ServerValidation_AP_AFCDUSV35_MatchSuffixSAN_10634_1	Pass		
3.5.4	CT_AFC_ServerValidation_AP_AFCDUSV35_ServerCertRevoked_10635_1	Pass		
3.5.4	CT_AFC_ServerValidation_AP_AFCDUSV35_OCSPStaplingDisabled_10636	Pass		
3.5.4	1 CT_AFC_ServerValidation_AP_AFCDUSV35_StapledOCSPRespExpired_10 637_1	Pass		
3.5.4	CT_AFC_ServerValidation_AP_AFCDUSV35_TLSCipherSuiteENULL_10638 _1	Pass		
3.5.4	CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1	Pass		



Test Description	Test Case	FCC	Short Description
	Identifier	Requirement	
		15.407(k)(1)	Transmit only as instructed by AFC System
		15.407(k)(8)(i)	Register with AFC System prior to initial transmission
		15.407(k)(8)(ii)	Provide required registration parameters
Successful		15.407(k)(8)(iii)	Registration either directly or via proxy
Registration	AFCD.RSA	45 407(1)(::)	Determination of appropriate channel configuration
and Spectrum Access Request		15.407(I)(ii)	implied by AFC System response
Access Nequest			Must contact an AFC system at least once per day to
		15.407(k)(8)(iv)	obtain the latest list of available frequencies and the
			maximum permissible power
Unsuccessful		15.407(k)(1)	Transmit only as instructed by AFC System
Spectrum	AFCD.USA	15.407(k)(8)(i)	Register with AFC System prior to initial transmission
Access Request		15.407(k)(8)(ii)	Provide required registration parameters
Access Nequest		15.407(k)(8)(iii)	Registration either directly or via proxy
Successful		15.407(k)(8)(i)	Register with AFC System prior to initial transmission
Spectrum	AFCD.SAU	15.407(k)(8)(ii)	Provide required registration parameters
Access Update		15.407(k)(9)(i)	Report location and uncertainty from power-off condition
Unsuccessful		15.407(k)(8)(i)	Register with AFC System prior to initial transmission
Spectrum	AFCD.UAU	15.407(k)(8)(ii)	Provide required registration parameters
Access Update		15.407(k)(9)(i)	Report location and uncertainty from power-off condition
Unsuccessful			Incorporate adequate security measurements to prevent
Server	AFCD.USV	15.407(k)(8)(v)	it from accessing AFC systems not approved by the
Validation			FCC



5.2. Successful Registration and Spectrum Access Request

5.2.1. Test compliance requirement

FCC Section(s)	Requirement
15.407(k)(1)	Transmit only as instructed by AFC System
15.407(k)(8)(i)	Register with AFC System prior to initial transmission.
15.407(k)(8)(ii)	Provide required registration parameters.
15.407(k)(8)(iii)	Registration either directly or via proxy
15.407(I)(ii)	Determination of appropriate channel configuration implied by AFC System response
45 407(1/2)(0)(5/2)	Must contact an AFC system at least once per day to obtain the latest list of available
15.407(k)(8)(iv)	frequencies and the maximum permissible power

5.2.2. Test Procedure

Step	Description
1	If the AFC DUT is Standard Power Access Point, go to Step 2, else go to Step 12
	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
2	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
3	Range and/or the inquired Channels fields
4	AFC DUT Test Harness validates the presence of mandatory registration information
	AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of
5	available frequency ranges and/or channels and the maximum permissible transmit power in the
	available Frequency Info and/or available Channel Info fields.



Step	Description
	Throughout Step 1 to Step 4, RF Test Equipment monitors the output of the AFC DUT to confirm
	that the AFC DUT does not transmit:
	In the band if the AFC DUT supports only SP operation
	Or
	Above LPI limits for AFC DUT whose manufacturer attests to its compliance with rules for LPI
	operation
6	Wait for 60 seconds
	RF Test Equipment monitors any transmission by the AFC DUT conforms to the following:
	For SP only operation, AFC DUT conforms to the conditions contained in the Available
	Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies.
	For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, AFC
	DUT transmit power in the band is less than CEILING [LPI limits, SP limits contained in the
	Available Spectrum Inquiry Response] and does not exceed emissions limits in adjacent
	frequencies.
7	Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request.
8	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquired Frequency
	Range and/or the inquired Channels fields.
9	AFC DUT Test Harness validates the presence of mandatory registration information
	AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of
10	available frequency ranges and/or channels and the maximum permissible transmit power in the
10	available Frequency Info and/or available Channel Info fields which are significantly different from
	Step 5.
	Wait for 5 minutes (configurable)
	RF Test Equipment monitors any transmission by the AFC DUT conforms to the following:
	For SP only operation, AFC DUT conforms to the conditions contained in the Available
11	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.
	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.
14	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



Step	Description
45	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquired Frequency
15	Range and/or the inquired Channels fields
16	AFC DUT Test Harness validates the presence of mandatory registration information
	AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of
17	available frequency ranges and/or channels and the maximum permissible transmit power in the
	available Frequency Info and/or available Channel Info fields
18	If AFC DUT used Out-of-band method, initiate connection procedure between AFC DUT and SP
10	Access Point by following instructions provided by the AFC DUT Vendor
	Wait for 60 seconds
19	RF Test Equipment monitors any transmission by the AFC DUT conforms to the conditions
19	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
20	using either In-band or Out-of band methods
21	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquired Frequency
21	Range and/or the inquired Channels fields
22	AFC DUT Test Harness validates the presence of mandatory registration information
	AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of
23	available frequency ranges and/or channels and the maximum permissible transmit power in the
20	available Frequency Info and/or available Channel Info 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
2-7	Access Point by following instructions provided by the AFC DUT Vendor
	Wait for 60 seconds (configurable)
25	RF Test Equipment monitors any transmission by the AFC DUT conforms to the conditions
25	contained in the latest Available Spectrum Inquiry Response and does not exceed emissions limits
	in adjacent frequencies

5.2.3. Test Result

Refer to Appendix A.1.



5.3. Unsuccessful Spectrum Access Request

5.3.1. Test compliance requirement

FCC Section(s)	Requirement
15.407(k)(1)	Transmit only as instructed by AFC System
15.407(k)(8)(i)	Register with AFC System prior to initial transmission.
15.407(k)(8)(ii)	Provide required registration parameters.
15.407(k)(8)(iii)	Registration either directly or via proxy

5.3.2. Test Procedure

Step	Description
1	If the AFC DUT is Standard Power Access Point, go to Step 2, else go to Step 7
	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
2	temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and
2	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
3	Range and/or the inquired Channels fields
4	AFC DUT Test Harness validates mandatory registration information
5	AFC DUT Test Harness sends an Available Spectrum Inquiry Response indicating that no
5	frequency ranges and/or channels are available
	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
6	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.
	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.
9	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 inquired Frequency
10	Range and/or the inquired Channels fields
11	AFC DUT Test Harness validates mandatory registration information



Step	Description	
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.	
40	If AFC DUT used Out-of-band method, initiate connection procedure between Fixed Client and SP	
13	Access Point by following instructions provided by the AFC DUT Vendor	
	Wait for 60 seconds	
13	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.	

5.3.3. Test Result

Refer to Appendix A.2.



5.4. Successful Spectrum Access Update

5.4.1. Test compliance requirement

FCC Section(s)	Requirement
15.407(k)(8)(i)	Register with AFC System after change of location
15.407(k)(8)(ii)	Provide required registration parameters.
15.407(k)(9)(i)	Report location and uncertainty from power-off condition

5.4.2. Test Procedure

Step	Description	
1	If the AFC DUT is Standard Power Access Point, go to Step 2, else go to Step 12	
	AFC DUT set to Initial Pre-test State.	
	If needed (see Table 5 declaration), configure DUT with BSS parameters per Table 9 and a	
2	temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and	
2	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	
3	Range and/or the inquired Channels fields	
4	AFC DUT Harness validates mandatory registration information	
	AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of	
5	available frequency ranges and/or channels and the maximum permissible transmit power in the	
	available Frequency Info and/or available Channel Info fields.	
	Throughout the preceding steps, RF Test Equipment monitors the output of the AFC DUT to confirm	
	that the AFC DUT does not transmit:	
	In the band if the AFC DUT supports only SP operation	
	Or	
	Above LPI limits for AFC DUT whose manufacturer attests to its compliance with rules for LPI	
	operation	
6	Wait for 60 seconds	
	RF Test Equipment monitors any transmission by the AFC DUT conforms to the following:	
	For SP only operation, AFC DUT conforms to the conditions contained in the Available	
	Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies.	
	For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, AFC	
	DUT transmit power in the band is less than CEILING [LPI limits, SP limits contained in the	
	Available Spectrum Inquiry Response] and does not exceed emissions limits in adjacent	
	frequencies.	



Step	Description
	AFC DUT is power cycled.
7	If needed (see Table 5declaration), 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.
	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
8	 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
	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
10	permissible transmit power in the available Frequency Info and/or available Channel Info fields
	which are significantly different from Step 5.
	During the 60 seconds wait time:
10	 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
	Wait for 60 seconds
	RF Test Equipment monitors any transmission by the AFC DUT conforms to the following:
	 For SP only operation, AFC DUT conforms to the conditions contained in the Available
11	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.
	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.
14	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



Step	Description
45	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquired Frequency
15	Range and/or the inquired Channels 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
	available Frequency Info and/or available Channel Info fields
10	If AFC DUT used Out-of-band method, initiate connection procedure between AFC DUT and SP
18	Access Point by following instructions provided by the AFC DUT Vendor
	Wait for 60 seconds
19	RF Test Equipment monitors any transmission by the AFC DUT conforms to the conditions
19	contained in the Available Spectrum Inquiry Response and does not exceed emissions limits in
	adjacent frequencies
	AFC DUT is power cycled
20	If needed (see Table 5 declaration), configure the AFC DUT with a temporary test regulatory
20	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.
	Wait for 60 seconds
	If the AFC DUT does not send an Available Spectrum Inquiry Request, RF Test Equipment monitors
21	the output of the AFC DUT to verify the AFC DUT does not transmit above maximum transmit
21	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
	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 available Frequency Info and/or available Channel Info fields
23	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
24	Access Point by following instructions provided by the AFC DUT Vendor
	Wait for 60 seconds
25	RF Test Equipment monitors any transmission by the AFC DUT conforms to the conditions
20	contained in the latest Available Spectrum Inquiry Response and does not exceed emissions limits
	in adjacent frequencies



5.4.3. Test Result

Refer to Appendix A.3.



5.5. Unsuccessful Spectrum Access Update

5.5.1. Test compliance requirement

FCC Section(s)	Requirement
15.407(k)(8)(i)	Register with AFC System after change of location
15.407(k)(8)(ii)	Update AFC System upon change of registration parameters
15.407(k)(9)(i)	Report location and uncertainty from power-off condition

5.5.2. Test Procedure

Step	Description	
1	If the AFC DUT is Standard Power Access Point, go to Step 2, else go to Step 12	
	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	
2	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 inquired Frequency	
3	Range and/or the inquired Channels fields	
4	AFC DUT Test Harness validates mandatory registration information	
	AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of	
5	available frequency ranges and/or channels and the maximum permissible transmit power in the	
	available Frequency Info and/or available Channel Info fields.	
	Throughout the Step 2 to 5, RF Test Equipment monitors the output of the AFC DUT to confirm that	
	the AFC DUT does not transmit:	
	In the band if the AFC DUT supports only SP operation	
	Or	
	Above LPI limits for AFC DUT whose manufacturer attests to its compliance with rules for LPI	
	operation	
6	Wait for 60 seconds	
	RF Test Equipment monitors any transmission by the AFC DUT conforms to the following:	
	For SP only operation, AFC DUT conforms to the conditions contained in the Available	
	Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies.	
	For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, AFC DUT	
	transmit power in the band is less than CEILING [LPI limits, SP limits contained in the Available	
	Spectrum Inquiry Response] and does not exceed emissions limits in adjacent frequencies.	



Step	Description
	AFC DUT is power cycled.
7	If needed (see Table 5declaration), 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.
	Wait for 60 seconds
	If the AFC DUT does not send an Available Spectrum Inquiry Request, RF Test Equipment
	monitors the output of the DUT to verify the following and STOP the test
8	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
10	frequency ranges and/or channels are available.
	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.
11	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
	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.
14	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 inquired Frequency
13	Range and/or the inquired Channels fields
16	AFC DUT Test Harness validates the presence of mandatory registration information
	AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of
17	available frequency ranges and/or channels and the maximum permissible transmit power in the
	available Frequency Info and/or available Channel Info fields
18	If AFC DUT used Out-of-band method, initiate connection procedure between AFC DUT and SP
10	Access Point by following instructions provided by the AFC DUT Vendor
	Wait for 60 seconds
19	RF Test Equipment monitors any transmission by the AFC DUT conforms to the conditions
19	contained in the Available Spectrum Inquiry Response and does not exceed emissions limits in
	adjacent frequencies



Step	Description
20	AFC DUT is power cycled
	If needed (see Table 5 declaration), configure the AFC DUT with a temporary test regulatory
20	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.
	Wait for 60 seconds
	If the AFC DUT does not send an Available Spectrum Inquiry Request, RF Test Equipment monitors
21	that the AFC DUT does not transmit above maximum transmit power limits advertised by the
21	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 validity of mandatory registration information
23	AFC DUT Test Harness sends an Available Spectrum Inquiry Response indicating that no
23	frequency ranges and/or channels are available.
24	If AFC DUT used Out-of-band method, initiate connection procedure between AFC DUT and SP
24	Access Point by following instructions provided by the AFC DUT Vendor
	Wait for 60 seconds
25	RF Test Equipment monitors that the AFC DUT does not transmit above maximum transmit power
25	limits advertised by the
	Standard Power Access Point for Standard Client Devices in the channel

5.5.3. Test Result

Refer to Appendix A.4.



5.6. Unsuccessful Server Validation

5.6.1. Test compliance requirement

FCC Section(s)	Requirement
15 407(k)(9)(y)	Incorporate adequate security measurements to prevent it from accessing AFC
15.407(k)(8)(v)	systems not approved by the FCC

5.6.2. Test Procedure

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



Step	Description		
2 AFC DUT Test Harness waits 10 seconds, and verifies no Available Spectrum Inquiry Request sent to it.			
3	Steps 1 and 2 are repeated for each of the remaining Runs		

5.6.3. Test Result

Refer to Appendix A.5.



Appendix A – Test Result

A.1 Successful Registration and Spectrum Access Request

Test Site	WZ-SR5	Test Engineer	Dandy Li
Test Date	2025-07-18		

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP
DUT Vendor Name	TP-Link Systems Inc.
DUT Product Model	EAPT87

Test Result

FCC Requirements	TestCaseName	Test Result
15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii), 15.407(l)(ii), 15.407(k)(8)(iv)	CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_20MHz_10625_1 (Successful registration and spectrum access request)	PASS

Test Measurements

TestCaseName: CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_20MHz_10625_1 (Successful registration and spectrum access request)
TestResult:PASS
BandsG6Hz
BandsG6Hz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT transmit power in the band is less than CEILING(LPI limits (5 dBm/MHz PSD) , SP limits (13.4 dBm/MHz PSD, 26.4 dBm EIRP) in Spectrum Reponse) on channel 37 bandwidth 20.	true	PASS
AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_1	AFC DUT conforms to not exceed emissions limits in adjacent frequencies	true	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2	AFC DUT transmit power in the band is less than CEILING(LPI limits (5 dBm/MHz PSD) , SP limits (13.3 dBm/MHz PSD, 26.3 dBm EIRP) in Spectrum Reponse) on channel 49 bandwidth 20.	true	PASS
AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_2	AFC DUT conforms to not exceed emissions limits in adjacent frequencies	true	PASS

Test Result

FCC Requirements	TestCaseName	Test Result
15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii), 15.407(l)(ii), 15.407(k)(8)(iv)	CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_40MHz_10626_1/Successful registration and spectrum access request)	PASS

Test Measurements

TestCaseName: CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_40MHz_10626_1 (Successful registration and spectrum access request TestResult:PASS

nd:6GHz			
Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT transmit power in the band is less than CEILING(LPI limits (5 dBm/MHz PSD) , SP limits (9.6 dBm/MHz PSD, 25.6 dBm EIRP) in Spectrum Reponse) on channel center frequency index 51 bandwidth 40.	true	PASS
AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_1	AFC DUT conforms to not exceed emissions limits in adjacent frequencies	true	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2	AFC DUT transmit power in the band is less than CEILING(LPI limits (5 dBm/NHz PSD), SPlimits (14.8 dBm/NHz PSD, 30.8 dBm EIRP) in Spectrum Reponse) on channel center frequency index 35 bandwidth 40.	true	PASS
AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_2	AFC DUT conforms to not exceed emissions limits in adjacent frequencies	true	PASS



Test Result

FCC Requirements	TestCaseName	Test Result
15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii), 15.407(i)(ii), 15.407(k)(8)(iv)	CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_80MHz_10627_1(Successful registration and spectrum access request)	PASS

Test Measurements

TestCaseName: CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_80MHz_10627_1 (Successful registration and spectrum access request) TestResulti*ASS

and:6GHz				
Measurements Name	Description	Value	Validation Result	
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS	
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS	
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS	
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT transmit power in the band is less than CEILING(LPI limits (5 dBm/MHz PSD), SPI limits (8.2 dBm/MHz PSD, 27.2 dBm EIRP) in Spectrum Reponse) on channel center frequency index 39 bandwidth 80.	true	PASS	
AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_1	AFC DUT conforms to not exceed emissions limits in adjacent frequencies	true	PASS	
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS	
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2	Valid mandatory registration information	true	PASS	
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2	AFC DUT transmit power in the band is less than CEILING(LPI limits (5 dBm/)MHz PSD), SP limits (12.6 dBm/)MHz PSD, 31.6 dBm EIRP) in Spectrum Reponse] on channel center frequency index 55 bandwidth 80.	true	PASS	
AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_2	AFC DUT conforms to not exceed emissions limits in adjacent frequencies	true	PASS	

Test Result

FCC Requirements	TestCaseName	Test Result
15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii), 15.407(i)(ii), 15.407(k)(8)(iv)	CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_160MHz_10628_1 (Successful registration and spectrum access request)	PASS

Test Measurements

TestCaseName: CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_160MHz_10628_1 (Successful registration and spectrum access request)
TestResult:PASS
BaddiGHz
BaddiGHz

and:6GHz				
Measurements Name	Description	Value	Validation Result	
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS	
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS	
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS	
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT transmit power in the band is less than CELING(LPI limits (5 dBm/)MHz PSD) , SP limits (10.4 dBm/MHz PSD, 32.4 dBm EIRP) in Spectrum Reponse) on channel center frequency index 47 bandwidth 160.	true	PASS	
AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_1	AFC DUT conforms to not exceed emissions limits in adjacent frequencies	true	PASS	
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS	
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2	Valid mandatory registration information	true	PASS	
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2	AFC DUT transmit power in the band is less than CELING(LPI limits (5 dBm/)MHz PSD) , SP limits (9.8 dBm/MHz PSD, 31.8 dBm EIRP) in Spectrum Reponse] on channel center frequency index 143 bandwidth 160.	true	PASS	
AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_2	AFC DUT conforms to not exceed emissions limits in adjacent frequencies	true	PASS	

Test Result

FCC Requirements	TestCaseName	Test Result
15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii), 15.407(k)(8)(iii), 15.407(k)(iii), 15.407(k)(8)(iv)	CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_320MHz_10715_1/Successful registration and spectrum access request)	PASS

Test Measurements

TestCaseName: CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_320MHz_10715_1 (Successful registration and spectrum access request) TestResult:PASS

AFC_DUT_SP_OPERATION AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1 AFC DUT sends an Available Spectrum Inquiry Request PASS AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1 AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_1 AFC DUT conforms to not exceed emissions limits in adjacent frequencies AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2 AFC DUT sends an Available Spectrum Inquiry Request PASS AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2 PASS AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD), SP limits (-3.4 dBm/MHz PSD, 12.3 dBm EIRP) in Spectrum Reponse] on channel center frequency index 65 bandwidth 320. AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2 PASS AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_2



Test Mode	Working Mode	Channel No.	Freq. (MHz)	Average Power (dBm) Ant 0 Ant 1		Duty Cycle (%)	EIRP (dBm)	Limit (dBm)
802.11be-EHT20	LPI	65	6275	4.95	4.89	96.72	9.93	24.00
802.11be-EHT20	SD	37	6135	8.31	8.35	96.72	13.34	26.40
802.11be-EHT20	SD	49	6195	8.46	8.10	96.72	13.29	26.30
802.11be-EHT40	LPI	67	6285	7.00	5.99	91.36	11.53	24.00
802.11be-EHT40	SD	51	6205	6.35	7.13	91.36	11.77	25.60
802.11be-EHT40	SD	35	6125	12.02	12.31	91.36	17.18	30.80
802.11be-EHT80	LPI	55	6225	10.53	10.42	92.84	15.49	24.00
802.11be-EHT80	SD	39	6145	9.21	9.46	92.84	14.35	27.20
802.11be-EHT80	SD	55	6225	13.36	13.23	92.84	18.31	31.60
802.11be-EHT160	LPI	79	6345	14.10	13.94	92.13	19.03	24.00
802.11be-EHT160	SD	47	6185	14.47	14.38	92.13	19.44	32.40
802.11be-EHT160	SD	143	6665	13.95	14.11	92.13	19.04	31.80
802.11be-EHT320	LPI	63	6265	18.15	18.50	92.76	23.34	24.00
802.11be-EHT320	SD	63	6265	14.56	15.11	92.76	19.85	27.30
802.11be-EHT320	SD	63	6265	3.37	3.85	92.76	8.63	12.30

Note: EIRP (dBm) = 10*log {10^(Ant 0 Average Power /10) + 10^(Ant 1 Average Power /10)} + Directional Gain for Power (dBi) + 10*log (1/Duty Cycle).



Test Mode	Working Mode	Channel No.	Freq. (MHz)	PSD (dBm/MHz)		Duty Cycle (%)	EIRP PSD	Limit (dBm/MHz)
				Ant 0	Ant 1		(dBm/MHz)	
802.11be-EHT20	LPI	65	6275	-6.838	-6.329	96.72	1.59	5.00
802.11be-EHT20	SD	37	6135	-3.367	-3.389	96.72	4.79	13.40
802.11be-EHT20	SD	49	6195	-2.966	-3.267	96.72	5.05	13.30
802.11be-EHT40	LPI	67	6285	-7.779	-8.161	91.36	0.45	5.00
802.11be-EHT40	SD	51	6205	-7.429	-7.570	91.36	0.91	9.60
802.11be-EHT40	SD	35	6125	-2.584	-1.846	91.36	6.21	14.80
802.11be-EHT80	LPI	55	6225	-7.090	-7.141	92.84	1.23	5.00
802.11be-EHT80	SD	39	6145	-8.078	-8.062	92.84	0.27	8.20
802.11be-EHT80	SD	55	6225	-4.116	-4.450	92.84	4.06	12.60
802.11be-EHT160	LPI	79	6345	-5.843	-6.133	92.13	2.39	5.00
802.11be-EHT160	SD	47	6185	-5.747	-6.123	92.13	2.45	10.40
802.11be-EHT160	SD	143	6665	-6.181	-6.452	92.13	2.06	9.80
802.11be-EHT320	LPI	63	6265	-4.617	-4.489	92.76	3.79	5.00
802.11be-EHT320	SD	63	6265	-8.323	-8.094	92.76	0.14	7.20
802.11be-EHT320	SD	63	6265	-19.600	-19.393	92.76	-11.15	-3.40

Note: EIRP PSD (dBm/MHz) = $10*\log \{10^{(Ant\ 0\ PSD/10)} + 10^{(Ant\ 1\ PSD/10)}\}$ (dBm/MHz) + $10*\log (1/Duty\ Cycle)$ + Directional Gain for PSD (dBi).



