



FCC DFS Test Report

FCC ID: 2BH7FTX30UPLUS

This report concerns: Original Grant

Project No. : 2408G116

Equipment: AX1800 Dual Antennas High Gain Wireless USB Adapter

Brand Name : tp-link

Test Model : Archer TX30U Plus

Series Model : N/A

Applicant: TP-Link Systems Inc.

Address : 10 Mauchly, Irvine, CA 92618

Manufacturer : TP-Link Systems Inc.

Address: 10 Mauchly, Irvine, CA 92618

Date of Receipt : Aug. 24, 2024

Date of Test : Aug. 27, 2024 ~ Nov. 05, 2024

Issued Date : Feb. 06, 2025

Report Version : R01

Test Sample : Engineering Sample No.: DG202408244
Standard(s) : FCC CFR Title 47, Part 15, Subpart E

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

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BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



Table of Contents	Page
REPORT ISSUED HISTORY	4
1 . APPLICABLE STANDARDS	5
2 . SUMMARY OF TEST RESULTS	5
3. TEST FACILITY	5
4. TEST ENVIRONMENT CONDITIONS	5
5. GENERAL INFORMATION	6
5.1 GENERAL DESCRIPTION OF EUT	6
5.2 CUSTOMER INFORMATION DESCRIPTION	8
5.3 MAXIMUM OUTPUT POWER AND E.I.R.P.	8
5.4 TRANSMIT POWER CONTROL (TPC)	9
5.5 DESCRIPTION OF TEST MODES	11
6 . U-NII DFS RULE REQUIREMENTS	12
6.1 WORKING MODES AND REQUIRED TEST ITEMS	12
6.2 TEST LIMITS AND RADAR SIGNAL PARAMETERS	13
7. MEASUREMENT INSTRUMENTS LIST	14
8 . DYNAMIC FREQUENCY SELECTION (DFS)	15
8.1 DFS MEASUREMENT SYSTEM	15
8.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL	17
8.3 DEVIATION FROM TEST STANDARD	17
9. TEST RESULTS	18
9.1 SUMMARY OF DFS TEST RESULT	18
9.2 DFS DETECTION THRESHOLD	19
9.3 CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME	20
9.4 NON-OCCUPANCY PERIOD	22
10 . EUT TEST PHOTO	23



REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2408G116	R00	Original Report.	Jan. 24, 2025	Invalid
BTL-FCCP-3-2408G116	R01	Modified the comments.	Feb. 06, 2025	Valid



1. APPLICABLE STANDARDS

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

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

The following reference test guidance is not within the scope of accreditation of A2LA:

KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart E					
Standard(s) Section	Test Result	Judgment	Remark		
FCC 15.407(h)	Transmit Power Control (TPC) and Dynamic Frequency Selection (DFS)		PASS		

3. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of 1-2/F, 4/F, Building A, 1-2/F, Building B, 3/F, Building C, No.3, Jinshagang 1st Road, Dalang Town, Dongguan City, Guangdong People's Republic of China.

4. TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By	Test Date
Dynamic Frequency Selection (DFS)	25°C	48%	DC 5V	Rexer Li	Sep. 25, 2024



5. GENERAL INFORMATION

5.1 GENERAL DESCRIPTION OF EUT

Equipment	AX1800 Dual Antennas High Gain Wireless USB Adapter
Brand Name	tp-link
Test Model	Archer TX30U Plus
Series Model	N/A
Model Difference(s)	N/A
Software Version	V1
Hardware Version	V1
Power Source	DC supply from PC.
Power Rating	DC 5V
Operation Frequency Band(s)	UNII-2A: 5250 MHz ~ 5350 MHz
Operation Frequency Band(s)	UNII-2C: 5470 MHz ~ 5725 MHz
Modulation Type	IEEE 802.11a/n/ac: OFDM
Modulation Type	IEEE 802.11ax: OFDMA
	IEEE 802.11a: 54/48/36/24/18/12/9/6 Mbps
Bit Rate of Transmitter	IEEE 802.11n: up to 300 Mbps
Bit Nate of Hansilittei	IEEE 802.11ac: up to 866.7 Mbps
	IEEE 802.11ax: up to 1201 Mbps
	☐ Master
Operating Mode(s)	☐ Client device without radar detection
	Client device with radar detection
Maximum Output Power _UNII-2A	IEEE 802.11ac(VHT40): 23.76 dBm (0.2377 W)
Maximum Output Power _UNII-2C	IEEE 802.11ax(HE80): 23.96 dBm (0.2489 W)

Note

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20) IEEE 802.11ax(HE20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(HE40)		IEEE 802.11ac(VHT80) IEEE 802.11ax(HE80)	
UNII-2A UNII-2A		I-2A	UNII-2A		
Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
5260	54	5270	58	5290	
56 5280		5310			
5300					
5320					
	1n(HT20) ac(VHT20) 1ax(HE20) -2A Frequency (MHz) 5260 5280 5300	1n(HT20) ac(VHT20) 1ax(HE20) -2A Frequency (MHz) 5260 5280 5300	1n(HT20) ac(VHT20) 1ax(HE20) -2A Frequency (MHz) 5260 5280 5300 IEEE 802.11n(H140) IEEE 802.11ax(VHT40) IEEE 802.11ax(HE40) Frequency (MHz) 5260 54 5270 5310	1n(HT20) ac(VHT20) 1ax(HE20) -2A UNII-2A Frequency (MHz) 5260 5280 5300 IEEE 802.11n(H140) IEEE 802.11 ac(VHT40) IEEE 802.11 ax(HE40) IEEE 802.11 IEEE 802.11 IEEE 802.17	



IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20) IEEE 802.11ax(HE20)		IEEE 802.1	11n(HT40) 1ac(VHT40) 11ax(HE40)	IEEE 802.1 IEEE 802.1	
UNII	-2C	UNI	I-2C	UNI	I-2C
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590		
112	5560	126	5630		
116	5580	134	5670		
120	5600				
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				

3. Antenna Specification:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	TP-LINK CORPORATION PTE. LTD.	3101507187	Dipole	N/A	2.00
2	TP-LINK CORPORATION PTE. LTD.	3101507187	Dipole	N/A	2.00

Note:

This EUT supports CDD, and all antennas have the same gain, Directional gain = G_{ANT}+Array Gain. For power measurements, Array Gain=0dB (N_{ANT}≤4), so the Directional gain=2.00. For power spectral density measurements, N_{ANT}=2, N_{SS} = 1. So the Directional gain=G_{ANT}+Array Gain=G_{ANT}+10log(N_{ANT}/ N_{SS})dBi=2+10log(2/1)dBi=5.01.

4. Table for Antenna Configuration:

Operating Mode	2TX
TX Mode	217
IEEE 802.11a	V (Ant. 1 + Ant. 2)
IEEE 802.11n(HT20)	V (Ant. 1 + Ant. 2)
IEEE 802.11n(HT40)	V (Ant. 1 + Ant. 2)
IEEE 802.11ac(VHT20)	V (Ant. 1 + Ant. 2)
IEEE 802.11ac(VHT40)	V (Ant. 1 + Ant. 2)
IEEE 802.11ac(VHT80)	V (Ant. 1 + Ant. 2)
IEEE 802.11ax(HE20)	V (Ant. 1 + Ant. 2)
IEEE 802.11ax(HE40)	V (Ant. 1 + Ant. 2)
IEEE 802.11ax(HE80)	V (Ant. 1 + Ant. 2)





5.2 CUSTOMER INFORMATION DESCRIPTION

- 1) The antenna gain is provided by the manufacturer.
- 2) The results of all test items include cable losses. All cable losses are provided by the testing laboratory.

5.3 MAXIMUM OUTPUT POWER AND E.I.R.P.

Frequency Band (MHz)	Max Output Power (dBm)	Antenna Gain (dBi)	Max. e.i.r.p. (dBm)	Max. e.i.r.p. (mW)
5250~5350	23.76	2.00	25.76	376.70
5470~5725	23.96	2.00	25.96	394.46

Note:

1) U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.



5.4 TRANSMIT POWER CONTROL (TPC)

The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm.

Test Mode: UNII-2A / IEEE 802.11a Mode							
Channel	Frequency	Output Power (TPC High)	Output Power (TPC Low)				
Chamei	(MHz)	(dBm)	(dBm)				
52	5260	22.38	16.38				
60	5300	22.46	16.46				
64	5320	21.05	15.05				

	Test Mode: UNII-2A / IEEE 802.11ac(VHT20) Mode							
Channel	Frequency	Output Power (TPC High)	Output Power (TPC Low)					
	(MHz)	(dBm)	(dBm)					
52	5260	22.41	16.41					
60	5300	22.53	16.53					
64	5320	22.51	16.51					

	Test Mode: UNII-2A / IEEE 802.11ac(VHT40) Mode					
Channel	Frequency	Output Power (TPC High)	Output Power (TPC Low)			
Chame	(MHz)	(dBm)	(dBm)			
54	5270	23.76	17.76			
62	5310	19.77	13.77			

Test Mode: UNII-2A / IEEE 802.11ac(VHT80) Mode					
Channel	Frequency	Output Power (TPC High)	Output Power (TPC Low)		
Charmer	(MHz)	(dBm)	(dBm)		
58	5290	18.92	12.92		

	Test Mode: UNII-2A / IEEE 802.11ax(HE20) Mode					
Channel	Frequency (MHz)	Output Power (TPC High) (dBm)	Output Power (TPC Low) (dBm)			
52	5260	22.67	16.67			
60	5300	22.74	16.74			
64	5320	20.29	14.29			

	Test Mode: UNII-2A / IEEE 802.11ax(HE40) Mode				
ĺ	Channel	Frequency	Output Power (TPC High)	Output Power (TPC Low)	
	Chamei	(MHz)	(dBm)	(dBm)	
	54	5270	23.76	17.76	
	62	5310	19.11	13.11	

Test Mode: UNII-2A / IEEE 802.11ax(HE80) Mode					
Channel	Frequency	Output Power (TPC High)	Output Power (TPC Low)		
Channel	(MHz)	(dBm)	(dBm)		
58	5290	17.90	11.90		



	Test Mode: UNII-2C / IEEE 802.11a Mode				
Channel	Frequency (MHz)	Output Power (TPC High) (dBm)	Output Power (TPC Low) (dBm)		
100	5500	22.21	16.21		
116	5580	22.31	16.31		
140	5700	20.15	14.15		

	Test Mode: UNII-2C / IEEE 802.11ac(VHT20) Mode					
Channel	Frequency	Output Power (TPC High)	Output Power (TPC Low)			
Chamilei	(MHz)	(dBm)	(dBm)			
100	5500	21.62	15.62			
116	5580	22.26	16.26			
140	5700	19.66	13.66			

	Test Mode: UNII-2C / IEEE 802.11ac(VHT40) Mode					
Channel	Frequency (MHz)	Output Power (TPC High) (dBm)	Output Power (TPC Low) (dBm)			
102	5510	22.61	16.61			
110	5550	23.58	17.58			
134	5670	23.52	17.52			

	Test Mode: UNII-2C / IEEE 802.11ac(VHT80) Mode				
Channel	Frequency	Output Power (TPC High)	Output Power (TPC Low)		
Chame	(MHz)	(dBm)	(dBm)		
106	5530	20.65	14.65		
122	5610	23.47	17.47		

Test Mode: UNII-2C / IEEE 802.11ax(HE20) Mode					
Channel	Frequency	Output Power (TPC High)	Output Power (TPC Low)		
Channel	(MHz)	(dBm)	(dBm)		
100	5500	22.45	16.45		
116	5580	22.12	16.12		
140	5700	21.44	15.44		

	Test Mode: UNII-2C / IEEE 802.11ax(HE40) Mode					
Channel	Frequency	Output Power (TPC High)	Output Power (TPC Low)			
C	Jilalillei	(MHz)	(dBm)	(dBm)		
	102	5510	21.88	15.88		
	110	5550	23.94	17.94		
	134	5670	23.84	17.84		

	Test Mode: UNII-2C / IEEE 802.11ax(HE80) Mode					
Channel	Frequency	Output Power (TPC High)	Output Power (TPC Low)			
Chamei	(MHz)	(dBm)	(dBm)			
106	5530	21.11	15.11			
122	5610	23.96	17.96			



5.5 DESCRIPTION OF TEST MODES

Test Mode	Description	
Mode 1	IEEE 802.11ax(HE80): 5530MHz	



6. U-NII DFS RULE REQUIREMENTS

6.1 WORKING MODES AND REQUIRED TEST ITEMS

The manufacturer shall state whether the UUT is capable of operating as a Master and/or a Client. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables below for the applicability of DFS requirements for each of the operational modes.

Applicability of DFS requirements prior to use a channel

Requirement	Operational Mode			
Kequilement	Master	Client without radar detection	Client with radar detection	
Non-Occupancy Period		$\sqrt{}$	$\sqrt{}$	
DFS Detection Threshold	$\sqrt{}$	Not required	$\sqrt{}$	
Channel Availability Check Time	$\sqrt{}$	Not required	Not required	
U-NII Detection Bandwidth	$\sqrt{}$	Not required	$\sqrt{}$	

Applicability of DFS requirements during normal operation

D	Operational Mode			
Requirement	Master	Client without radar detection	Client with radar detection	
DFS Detection Threshold	V	Not required	V	
Channel Closing Transmission Time	$\sqrt{}$		$\sqrt{}$	
Channel Move Time	V	V	V	
U-NII D tection Bandwidth	V	Not required	V	

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection	
U-NII Detection Bandwidth and	All BW modes mu t be	Not required	
Statistical Performance Check	tested	Not required	
Channel Move Time and Channel	Test using widest BW mode	Test using the widest BW	
Closing Transmission Time	available	mode available for the link	
All other tests	Any single BW mode	Not required	

Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.





6.2 TEST LIMITS AND RADAR SIGNAL PARAMETERS

DETECTION THRESHOLD VALUES

DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2 and 3)
e.i.r.p. ≥ 200 milliwatt	-64 dBm
e.i.r.p. < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
e.i.r.p. < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: e.i.r.p. is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

TEST LIMIT

DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds. See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over
	remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the UNII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

PARAMETERS OF DFS TEST SIGNALS

Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.



7. MEASUREMENT INSTRUMENTS LIST

Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
EXA Spectrum Analyzer	Agilent	N9010A	MY54430251	May 31, 2025
Power Splitter	Mini-Circuits	ZFRSC-183-S+	SFG32801811-1	May 31, 2025
Attenuator	STI	STI01-0201-01	N/A	Dec. 22, 2024
Power Splitter	Mini-Circuits	ZFRSC-183-S+	SFG32801811-3	May 31, 2025
Power Splitter	Mini-Circuits	ZN4PD-642W-S+	SN224901449	Dec. 22, 2024
EXG-B RF Vector Signal Generator	Keysight	N5172B	MY53051637	Dec. 22, 2024
Power Splitter	N/A	N/A	SZ201504604	Dec. 22, 2024
DC Block	N/A	N/A	N/A	N/A
20DB	N/A	N/A	N/A	N/A
Wi-Fi Router	tp-link	Archer AX6000	N/A	N/A
Measurement Software	Keysight	N7607C Signal studio V2.4.0.0	N/A	N/A

Remark: "N/A" denotes no model name, serial no. or calibration specified. All calibration period of equipment list is one year. Wi-Fi Router's FCC ID: TE7AX6000



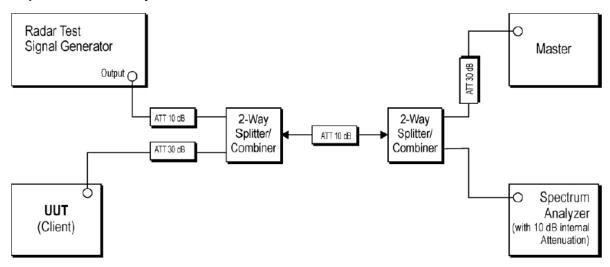
8. DYNAMIC FREQUENCY SELECTION (DFS)

8.1 DFS MEASUREMENT SYSTEM

Test Precedure

- 1. Master device and client device are set up by conduction method as the following configuration.
- 2. The client device is connected to notebook and to access a IP address on wireless connection with the master device.
- 3. Then the master device is connected to another notebook to access a IP address.
- 4. Finally, let the two IP addresses run traffic with each other through the Run flow software "Lan test" to reach 17% channel loading as below.

Setup for Client with injection at the Master

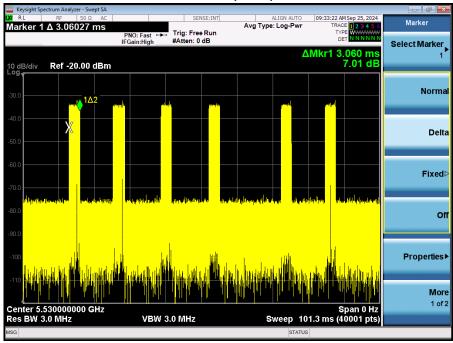


Radar Test Waveforms are injected into the Master.



Channel Loading

IEEE 802.11ax(HE80) Mode



Frequency	Marker Delta	Number	On Time	Total Time	Duty cycle	Limit
(MHz)	(ms)		(ms)	(ms)	(%)	(%)
5530	3.06	6	18.36	101.3	18.12	17.00

The signal monitoring equipment consists of a spectrum analyzer set to display 8001 bins on the horizontal axis. The time-domain resolution is 2 msec / bin with a 16 second sweep time, meeting the 10 second short pulse reporting criteria. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold.

Should multiple RF ports be utilized for the Master and/or Slave devices (for example, for diversity or MIMO implementations), additional combiner/dividers are inserted between the Master Combiner/Divider and the pad connected to the Master Device (and/or between the Slave Combiner/Divider and the pad connected to the Slave Device). Additional pads are utilized such that there is one pad at each RF port on each EUT.



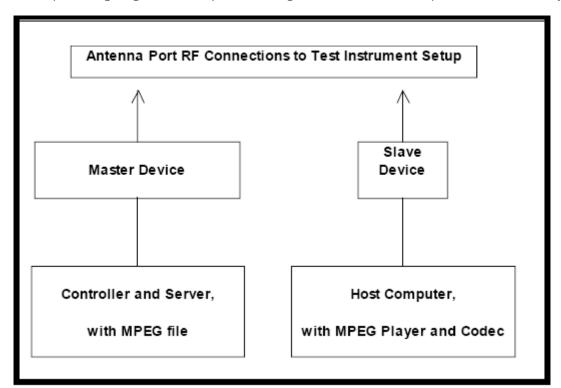
8.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL

A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected in place of the master device and the signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of -64dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. Measure the amplitude and calculate the difference from -64 dBm. Adjust the Reference Level Offset of the spectrum analyzer to this difference.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of -64 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

Set the signal generator to produce a radar waveform, trigger a burst manually and measure the level on the spectrum analyzer. Readjust the amplitude of the signal generator as required so that the peak level of the waveform is at a displayed level equal to the required or desired interference detection threshold. Separate signal generator amplitude settings are determined as required for each radar type.



8.3 DEVIATION FROM TEST STANDARD

No deviation.



9. TEST RESULTS

9.1 SUMMARY OF DFS TEST RESULT

Clause	Test Parameter	Remarks	Result
	Channel Move Time	Applicable	Pass
FCC 15.407	Channel Closing Transmission Time	Applicable	Pass
	Non-Occupancy Period	Applicable	Pass



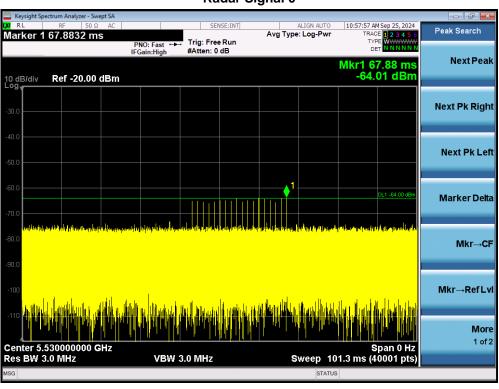
9.2 DFS DETECTION THRESHOLD

Calibration:

The EUT is slave equipment and it with a lowest gain is 2.00dBi.

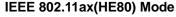
For a detection threshold level of -62dBm and the master antenna gain is 2.90 dBi, required detection threshold is -59.10 dBm (= -62+2.90).

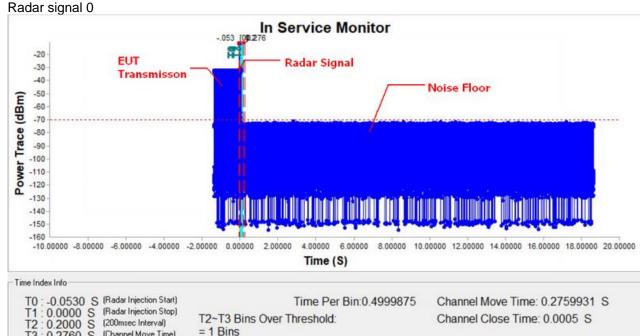
Radar Signal 0





9.3 CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME





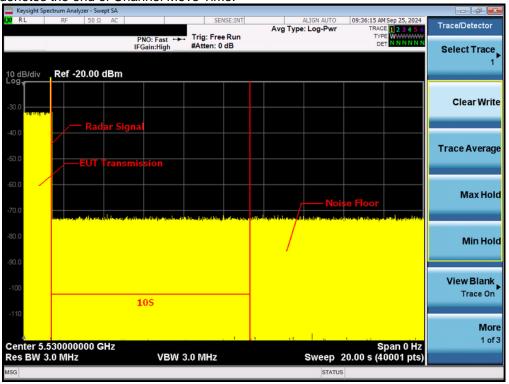
Note: T0 denotes the Radar Injection Start.

T3: 0.2760 S (Channel Move Time)

T1 denotes the start of Channel Move Time upon the end of the last Radar burst.

T2 denotes the data transmission time of 200ms from T1.

T3 denotes the end of Channel Move Time.



Note: An expanded plot for the device vacates the channel in the required 500ms.

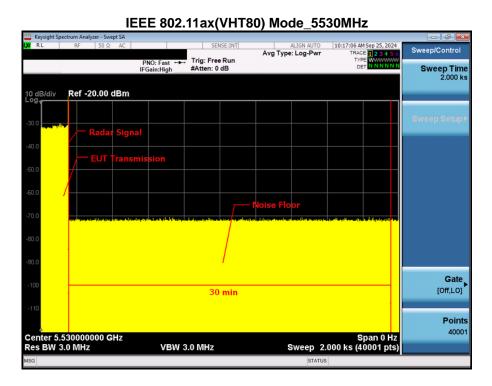


IEEE 802.11ax(HE80) Mode				
Item	Measured Value(s)	Limit(s)		
Channel Move Time	0.2759931	10		
		200 milliseconds + an aggregate of 60		
Channel Close Time	0.0005	milliseconds over remaining 10 second		
		period.		



9.4 NON-OCCUPANCY PERIOD

During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.



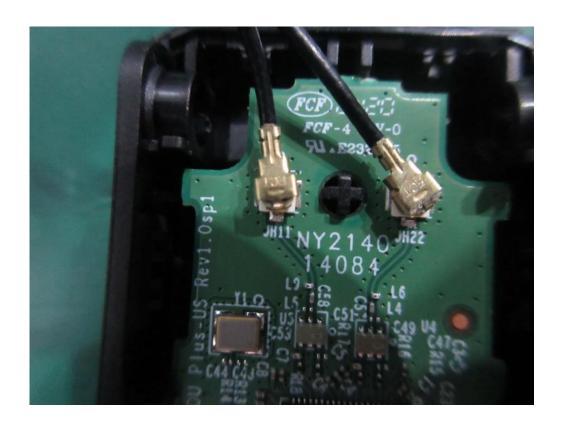


10. EUT TEST PHOTO









End of Test Report