

# FCC DFS TEST REPORT

Applicant	: Ubiquiti Inc.	
Address	685 Third Avenue, New York, New York 10017, USA	
Equipment	: UniFi Protect G4 Instant	
Model No.	: UVC-G4-INS	_
Trade Name	: UBIQUITI	
FCC ID.	: SWX-UVCG4INS	

## I HEREBY CERTIFY THAT :

The sample was received on Aug. 09, 2021 and the testing was completed on Oct. 05, 2021 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

larc

Mark Liao / Supervisor

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory





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# History of this test report

Issue Date	Description
Oct. 06, 2021	Original



# 1. Summary of Test Procedure and Test Results

## 1.1. Applicable Standards

ANSI C63.10:2013

#### FCC Rules and Regulations Part 15 Subpart E §15.407

KDB 789033

#### KDB 905462

FCC Rule	Description of Test	Result
15.407	Dynamic Frequency Selection	PASS

\*The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement.



# 2. Test Configuration of Equipment under Test

## 2.1. Feature of Equipment under Test

	BT / BLE: 2400-2483.5MHz	
Frequency Range	802.11b/g/n: 2400-2483.5MHz	
Thequency Range	802.11a/n/ac: 5150-5250MHz, 5250-5350MHz,	
	5470-5725MHz, 5725-5850MHz	
	BT: GFSK, $\pi$ /4-DQPSK, 8DPSK	
	BLE: GFSK	
Modulation Type	802.11b: CCK, DQPSK, DBPSK	
	802.11g/n/a: BPSK, QPSK, 16QAM, 64QAM	
	802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM	
Modulation Technology	DSSS, OFDM, FHSS, DTS	
	BT:	
	GFSK: 1Mbps, $\pi$ /4-DQPSK: 2Mbps, 8DPSK: 3Mbps	
	BLE:	
	GFSK: 1Mbps, GFSK: 2Mbps	
Data Rate	WLAN:	
Dala Rale	802.11b: 1, 2, 5.5, 11Mbps	
	802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps	
	802.11n: MCS0 – MCS7, HT20/40	
	802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps	
	802.11ac: MCS0 – MCS9, VHT20/40/80	
Antenna Type	Internal Antenna	
	For BT/BLE:	
	2402-2480MHz ANT A: 2.00dBi	
Antenna Gain	For WLAN 2.4G:	
Antenna Gain	2412-2462MHz ANT A:2.00dBi	
	For WLAN 5G:	
	5150-5850MHz ANT A: 4.60dBi	
USB TYPE-C Cable	Brand: Nienyi	
	Model: 325-00691	
Adaptor	Brand: UBIQUITI	
Adapter	Model: NY-PW0B3-05002000	

Note:

1. WLAN and BT can simultaneously transmission.

2. EUT supports DFS Client Mode, without radar detection.

3. EUT support indoor / outdoor function.

4. EUT FW: I6E#gf4108ec

5. For more details, please refer to the User's manual of the EUT.



# 2.2. Description of Test System

Equipment	Brand	Model	Length/Type	Power cord/Length/Type	FCC ID
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS	-
AP	NETGEAR	RAX80	NA	Adapter / 1.5m / NS	PY318200414
RJ45 Cable	N/A	N/A	1.2m / NS	N/A	-



## 2.3. General Information of Test

	Address Taiwan ( Tel:+886	<b>Technology Corporation Test Laboratory</b> No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, R.O.C.) -3-3226-888 6-3-3226-881		
Test Site	FCC	TW1439, TW1079		
	IC	4934E-1, 4934E-2		
	VCCI	T-2205 for Telecommunication test C-4663 for Conducted emission test R-4218 for Radiated emission test G-10812, G-10813 for radiated disturbance above 1GHz		
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 40,000MHz			
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.			

Test Item	Test Site	Test period	Environmental Conditions	Tested By
DFS	RFDFS01-NK	2021/10/05	25℃ /52%	Dian Chen

## 2.4. Measurement Uncertainty

T-FD-501-0 Ver 1.4

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Measurement Item	Uncertainty
Channel Move Time	±1.4%
Channel Closing Transmission Time	±6.4%
Threshold	±1.7dB



# 3. Test Equipment and Ancillaries Used for Tests

Test Item	DFS				
Test Site	RFDFS01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Horn Antenna	EMCO	3115	31589	2021/04/09	2022/04/08
Horn Antenna	EMCO	3115	31601	2020/10/16	2021/10/15
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200207	2021/04/21	2022/04/20
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100291	2020/11/10	2021/11/09
MXG-B RF Vector Signal Generator	KEYSIGHT	N5182B	MY53051383	2021/06/30	2022/06/29
N7607B Signal Studio	KEYSIGHT	v3.2.0.0	NA	NA	NA
InServiceMonitorUtility	Theda	v10.0.0.0	NA	NA	NA



# 4. Antenna Requirements

## 4.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

## 4.2. Antenna Construction and Directional Gain

Antenna Type	Internal Antenna
Antenna Gain	2412-2462MHz: ANT A:2.00dBi 5150-5850MHz: ANT A:4.60dBi



# 5. Dynamic Frequency Selection

## 5.1. List of Measurement and Examinations

#### EUT Applicability of DFS requirements and Frequency Range

		Operating Frequency Range		
Operation Mode		5470-5725MF 5250-5350MHz (Support 5600MHz-5650N		
Master				
Client without radar detection	$\checkmark$	$\checkmark$	$\checkmark$	
Client with radar detection				

#### DEVICES WITH RADAR DETECTION

MAXIMUM TRANSMIT POWER	VALUE (SEE Note 1 and 2)					
≥ 200 milliwatt	-64 dBm					
EIRP < 200 milliwatt and	-62 dBm					
power spectral density < 10 dBm/MHz	02 0011					
EIRP < 200 milliwatt that do not meet the	-64 dBm					
power spectral density requirement	••••=••					
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 add	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: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911						

#### Table1: Applicability of DFS requirements prior to use of a channel

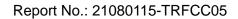
	OPERATIONAL MODE			
REQUIREMENT		CLIENT WITHOUT	CLIENT WITH	
RADAR	MASTER	RADAR	RADAR	
		DETECTION	DETECTION	
Non-Occupancy Period	V	Not required	V	
DFS Detection Threshold	V	Not required	V	
Channel Availability Check Time	V	Not required	Not required	
U-NII Detection Bandwidth	V	Not required	V	



	OPERATIONAL MODE			
REQUIREMENT		CLIENT WITHOUT	CLIENT WITH	
RADAR	MASTER	RADAR	RADAR	
		DETECTION	DETECTION	
DFS Detection Threshold	V	Not required	V	
Channel Closing Transmission Time	V	V	V	
Channel Move Time	V	V	V	
U-NII Detection Bandwidth	V	Not required	V	

Additional requirements for devices with multiple bandwidth modes	Master or Client with radar detection	Client without radar detection		
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required		
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link		
All other	Any single BW mode	Not required		
Note: Frequencies selected for statistical performance check (Section 7.8.4) 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.				

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## 5.2. Test Setup

#### Setup for Master with injection at the Master

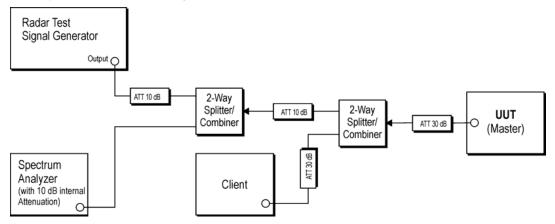
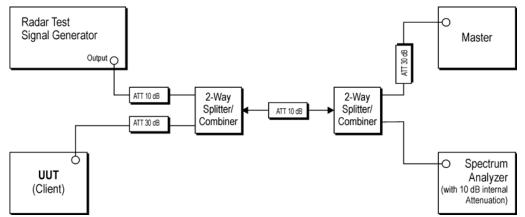
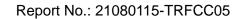


Figure 1: Example Conducted Setup where UUT is a Master and Radar Test Waveforms are injected into the Master

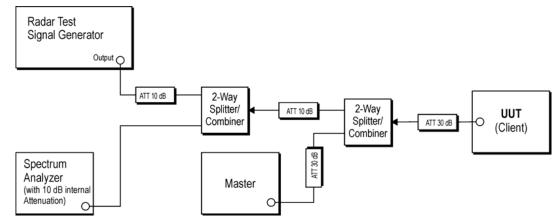
## Setup for Client with injection at the Master



# Figure 2: Example Conducted Setup where UUT is a Client and Radar Test Waveforms are injected into the Master







#### Setup for Client with injection at the Client

Figure 3: Example Conducted Setup where UUT is a Client and Radar Test Waveforms are injected into the Client



## **5.3. DFS Detection Threshold**

DFS Detection Threshold is the level used by the DFS mechanism to detect radar interference.

#### 5.3.1. Test Limit

Limits Clause 4.7.2.1.2

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

MAXIMUM TRANSMIT POWER	VALUE (SEE Note 1 and 2)				
≥ 200 milliwatt	-64 dBm				
EIRP < 200 milliwatt and	-62 dBm				
power spectral density < 10 dBm/MHz	-02 UBIT				
EIRP < 200 milliwatt that do not meet the	64 dBm				
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					

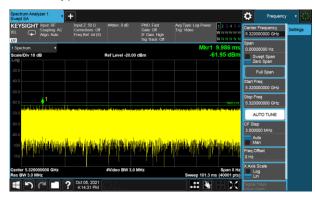
that the test signal is at or above the detection threshold level to trigger a DFS response. Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911

	Band: 5250MHz ~ 5350MHz
	802.11a: 18.85dBm
	802.11n HT20: 18.73dBm
	802.11n HT40: 17.11dBm
	802.11ac VHT20: 18.76dBm
	802.11ac VHT40: 17.13dBm
	802.11ac VHT80: 11.06dBm
Max. output power	
	Band: 5470MHz ~ 5725MHz
	802.11a: 18.53dBm
	802.11n HT20: 18.52dBm
	802.11n HT40: 18.54dBm
	802.11ac VHT20: 18.57dBm
	802.11ac VHT40: 18.62dBm
	802.11ac VHT80: 18.39dBm
Antonno goin (Max)	5250-5350MHz: ANT A: 4.6dBi
Antenna gain (Max)	5470-5725MHz: ANT A: 4.6dBi



#### 5.3.2. Test Result of DFS Detection Threshold

Radar Type 0 Calibration Plot



Radar Type 3 Calibration Plot

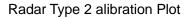


Radar Type 1 Calibration Plot

Spectrum Analyzer 1 Swept SA	• +					Frequency	- *
RL Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S)	#Atlen: 0 dB	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	Avg Type: Log-Power Trig: Video	123456 WWWWWW NNNNNN	Center Frequency 5.320000000 GHz Span	Settings
1 Spectrum   Scale/Div 10 dB Log		Ref Level -20.0	0 dBm		18.75 ms 1.99 dBm	0.00000000 Hz Swept Span Zero Span	
-30.0						Full Span Start Freq	
-50.0	1 Nataratation	da s datas d		A	TRG LVL	5.320000000 GHz Stop Freq 5.320000000 GHz	
-70.0						AUTO TUNE CF Step 3.000000 MHz	
-90.0	n in die die	likere fi	din tra Youth	<mark>Managal</mark>	Hellin P	Auto Man Freq Offset 0 Hz	
Center 5.320000000 GHz Res BW 3.0 MHz		#Video BW 3.0	MHz	Sweep 101.3 n	Span 0 Hz ns (40001 pts)	X Axis Scale Log Lin	
<u>ا</u> ا	Oct 05, 2021 4:16:06 PM	$\Box \Delta$		.:: 📎	$\mathbb{H}$	Signal Track (Span Zoom)	

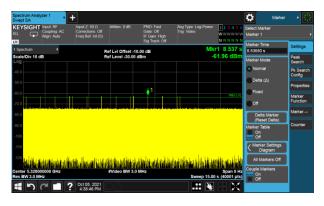
#### Radar Type 4 Calibration Plot







#### Radar Type 5 Calibration Plot





Radar Type 6 Calibration Plot

Spectrum Analyzer 1	+			•	Frequency	<del> </del> <del>  </del>
RL Align: Auto	Input Z: 50 Q #Atten: 0 d Corrections: Off Freq Ref: Int (S)	B PNO: Fast Gate: Off IF Gain: High Sig Track: Off	Trig: Video V		Center Frequency 5.320000000 GHz	Settings
1 Spectrum    Scale/Div 10 dB Log	Ref LvI Offs Ref Level -2				Span 0.00000000 Hz Swept Span	
-32.0					Zero Span Full Span	
-42.0					Start Freq 5.320000000 GHz	
-62.0	an an ann an the mark lating a second	and source on the Hannetski	والمراجع والمراجع والمراجع		Stop Freq 5.320000000 GHz	
-72.0 077 - 103 1010 046 103 104	and the first state of the second	a later and the			AUTO TUNE	
-52.0 -52.0					3.000000 MHz Auto Man	
-112					Freq Offset D Hz	
Center 5.320000000 GHz Res BW 3.0 MHz	#Video BV	V 3.0 MHz	Sweep 10.00 ms	Span 0 Hz	Log Lin	
<b>1</b>	? Oct 05, 2021 5:11:59 PM				Signal Track Span Zoom)	



# 5.4. Channel Availability Check Time

The Channel Availability Check is defined as the mechanism by which an RLAN device checks a channel for the presence of radar signals.

There shall be no transmissions by the device within the channel being checked during this process. If no radars have been detected, the channel becomes an Available Channel valid for a period of time.

The RLAN shall only start transmissions on Available Channels.

At power-up, the RLAN is assumed to have no Available Channels.

#### 5.4.1. Test Limit

Limits Clause 4.7.2.1.2 Table D.2: DFS requirement values

Parameter	Value
Channel Availability Check	> 60s

#### 5.4.2. Test Result of Channel Availability Check

## 5.5. Radar Burst at the Beginning of the Channel Availability Check Time

The steps below define the procedure to verify successful radar detection on the test Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB occurs at the beginning of the Channel Availability Check Time. This is illustrated in **Figure 15**.

- a) The Radar Waveform generator and UUT are connected using the applicable test setup described in the sections on configuration for Conducted Tests or Radiated Tests and the power of the UUT is switched off.
- b) The UUT is powered on at T0. T1 denotes the instant when the UUT has completed its power-up sequence (Tpower\_up). The Channel Availability Check Time commences on Chr at instant T1 and will end no sooner than T1 + Tch\_avail\_check.
- c) A single Burst of one of the Short Pulse Radar Types 0-4 will commence within a 6 second window starting at T1. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
- d) Visual indication or measured results on the UUT of successful detection of the radar Burst will be recorded and reported. Observation of Chr for UUT emissions will continue for 2.5 minutes after the radar Burst has been generated.
- e) Verify that during the 2.5 minute measurement window no UUT transmissions occurred on Chr. The Channel Availability Check results will be recorded.

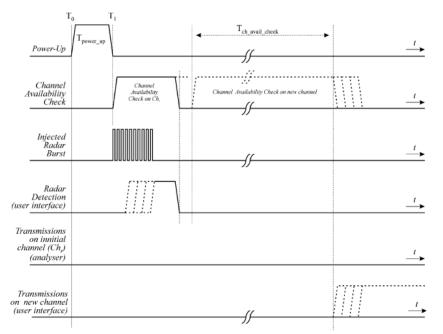


Figure 15: Example of timing for radar testing at the beginning of the Channel Availability Check Time

#### 5.5.1. Test Result of radar burst at the beginning of the Channel Availability Check Time

## 5.6. Radar Burst at the End of the Channel Availability Check Time

The steps below define the procedure to verify successful radar detection on the test Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1dB occurs at the end of the Channel Availability Check Time. This is illustrated in **Figure 16**.

- a) The Radar Waveform generator and UUT are connected using the applicable test setup described in the sections for Conducted Tests or Radiated Tests and the power of the UUT is switched off.
- b) The UUT is powered on at T0. T1 denotes the instant when the UUT has completed its power-up sequence (Tpower\_up). The Channel Availability Check Time commences on Chr at instant T1 and will end no sooner than T1 + Tch\_avail\_check.
- c) A single Burst of one of the Short Pulse Radar Types 0-4 will commence within a 6 second window starting at T1 + 54 seconds. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
- d) Visual indication or measured results on the UUT of successful detection of the radar Burst will be recorded and reported. Observation of Chr for UUT emissions will continue for 2.5 minutes after the radar Burst has been generated.
- e) Verify that during the 2.5 minute measurement window no UUT transmissions occurred on Chr. The Channel Availability Check results will be recorded.

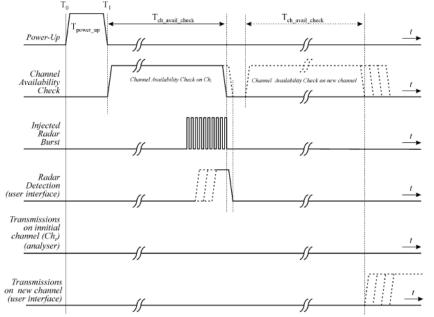


Figure 16: Example of timing for radar testing towards the end of the Channel Availability Check Time

#### 5.6.1. Test Result of radar burst at the end of the Channel Availability Check Time



#### 5.7. U-NII Detection Bandwidth

Additional requirements for devices with	Master or Client with	Client without radar			
multiple bandwidth modes	radar detection	detection			
U-NII Detection Bandwidth and Statistical	All BW modes must be tested	Not required			
Performance Check	All BW modes must be tested	Not required			
Note: Frequencies selected for statistical performance check (Section 7.8.4) 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.					

#### 5.7.1. Test Limit

Limits Clause 4.7.2.1.2 Table D.2: DFS requirement values

Parameter	Value			
U-NII Detection Bandwidth Minimum 100% of the U-NII 99% transmission				
Note : 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.				

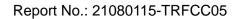
#### 5.7.2. Test Result of U-NII Detection Bandwidth



## 5.8. Statistical Performance Check

The UUT will select channel by random mode and remember this channel when detect radar signal, so that will select unused channel by random mode.

#### 5.8.1. Test Result of Uniform Spreading





## 5.9. In-Service Monitoring

The In-Service Monitoring is defined as the process by which an RLAN monitors the Operating Channel for the presence of radar signals.

Additional requirements for devices with multiple bandwidth modes	Master or Client with radar detection	Client without radar detection		
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required		
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link		
All other	Any single BW mode	Not required		
Note: Frequencies selected for statistical performance check (Section 7.8.4) 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.				

#### 5.9.1. Test Limit

Parameter	Value			
Channel Move Time	< 10 s (See Note 1)			
	< 200 ms+ an aggregate of 60 milliseconds			
Channel Closing Transmission Time	over remaining 10 second period.			
	(See Notes 1 and Notes 2.)			
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.				

Limits Clause 4.7.2.2.2

The In-Service Monitoring shall be used to continuously monitor an Operating Channel.

The In-Service-Monitoring shall start immediately after the RLAN has started

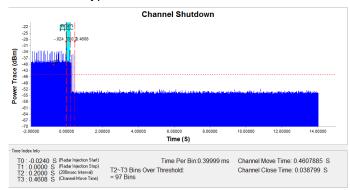
transmissions on an Operating Channel.



#### 5.9.2. Test Result of In-Service Monitoring

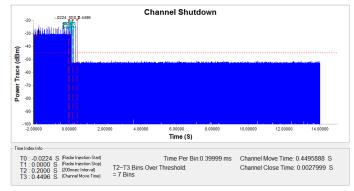
	Value	Limit
Channel Move Time	0.4607885	<10 s
Channel Closing Transmission Time	38.799	< 60 ms

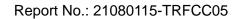
#### Modulation Type:802.11ac VHT80, ch58@5320MHz



	Value	Limit
Channel Move Time	0.4495888	<10 s
Channel Closing Transmission Time	2.7999	< 60 ms

#### Modulation Type:802.11ac VHT80, ch106@5500MHz







## 5.10. Non-Occupancy Period

The Channel Shutdown is defined as the process initiated by the RLAN device immediately after a radar signal has been detected on an Operating Channel.

The master device shall instruct all associated slave devices to stop transmitting on this channel, which they shall do within the Channel Move Time.

Slave devices with a Radar Interference Detection function, shall stop their own transmissions within the Channel Move Time.

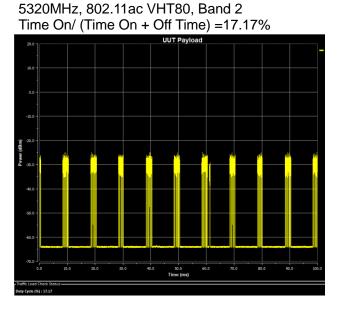
The aggregate duration of all transmissions of the RLAN device on this channel during the Channel Move Time shall be limited to the Channel Closing Transmission Time. The aggregate duration of all transmissions shall not include quiet periods in between transmissions.

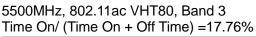
#### 5.10.1. Test Limit

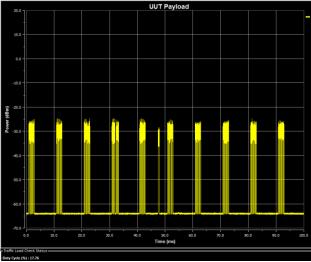
Radar Test Signal	Master (min)	Client (min)	
0	> 30	> 30	

#### 5.10.2. Channel Loading

Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, channel loading can be estimated by setting the spectrum analyzer for zero span and approximate the Time On/ (Time On + Off Time). This can be done with any appropriate channel BW and modulation type









## 5.10.3. Test Result of Non-Occupancy Period

Modulation Type:802.11ac VHT80, ch58@5320MHz



Modulation Type:802.11ac VHT80, ch106@5500MHz

Spectrum Analyz Swept SA	zer 1 , 🕇	-					🗘 Mar	ker 🔹 😽
KL +++ /	Input: RF Coupling: AC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S)	Atten: 10 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Power Trig: Free Run	123456 WWWWWW	Select Marker Marker 1	
1 Spectrum	۲					(r1 57.80 s	Marker Time 57.8000 s	Settings
Scale/Div 10 dB	3		Ref Level 0.00	dBm		23.42 dBm	Peak Search	Peak Search
-10.0							Next Peak	Pk Search Config
-20.0							Next Pk Right	Properties
-30.0							Next Pk Left	Marker Function
-50.0							Minimum Peał	Marker→
-60.0							Pk-Pk Search	Counter
-70.0							Marker Delta	
-80.0							Mkr→CF	
-90.0							Mkr→Ref Lvi	
Center 5.50000 Res BW 3.0 MH			Video BW 3.0	MHz	Sweep 2.000	Span 0 Hz ks (40001 pts)	Continuous Peak Search On	
<b>1</b> 50	∍ ∎ ?	Oct 05, 2021 3:33:44 PM					Off	

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