

Report No. : FZ862607



FCC DFS Test Report

FCC ID	: PPQ-WN4521L
Equipment	: 802.11ac, 2T2R Wireless LAN USB Module
Brand Name	: LITE-ON
Model Name	: WN4521L
Applicant	: Lite-On Technology Corp. Bldg. C, 90, Chien 1 Road, Chung Ho, New Taipei City 23585, Taiwan, R.O.C
Manufacturer	: LITE-ON TECHNOLOGY (Changzhou) CO., LTD A9 Building,No.88 Yanghu Road, Wujin Hi-Tech Industrial Development Zone ,Changzhou City, Jiangsu Province 213100 China
Standard	: 47 CFR FCC Part 15.407

The product was received on Jun. 26, 2018, and testing was started from Jul. 19, 2018 and completed on Jul. 19, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of United States government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

TEL : 886-3-327-3456
FAX : 886-3-327-0973
Report Template No.: HE1-D2 Ver2.1
FCC ID : PPQ-WN4521L



Table of Contents

HISTO	RY OF THIS TEST REPORT	.3
SUMM	ARY OF TEST RESULT	.4
1	GENERAL DESCRIPTION	.5
1.1	Information	.5
1.2	Support Equipment	.7
1.3	Testing Applied Standards	.8
1.4	Testing Location Information	.8
2	TEST CONFIGURATION OF EUT	.9
2.1	Test Channel Frequencies Configuration	.9
2.2	The Worst Case Measurement Configuration	.9
3	DYNAMIC FREQUENCY SELECTION (DFS) TEST RESULT1	0
3.1	General DFS Information1	0
3.2	Radar Test Waveform Calibration1	3
3.3	In-service Monitoring1	8
4	TEST EQUIPMENT AND CALIBRATION DATA2	22
5	MEASUREMENT UNCERTAINTY	23
Appen	dix A. Test Photos	

Photographs of EUT V01



History of this test report

Report No.	Version	Description	Issued Date
FZ862607	01	Initial issue of report	Jul. 26, 2018



Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.3	KDB 905462 7.8.3	DFS: In-Service Monitoring for Channel Move Time (CMT)	PASS	CMT ≤ 10sec
3.3	KDB 905462 7.8.3	DFS: In-Service Monitoring for Channel Closing Transmission Time (CCTT)	PASS	CCTT ≤ 60 ms starting at CMT 200ms
3.3	KDB 905462 7.8.3	DFS: In-Service Monitoring for Non-Occupancy Period (NOP)	PASS	NOP ≥ 30 min

Note: Since the product is client without radar detection function, only Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period are required to perform.

Reviewed by: Ben Tseng

Report Producer: Amber Chiu



1 General Description

1.1 Information

1.1.1 RF General Information

Specification Items			Des	cription		
Product Type	WL	WLAN (2TX, 2RX)				
Radio Type	Inte	ntional Transceive	r			
Power Type	Fro	m host system				
Modulation	IEE	E 802.11a: OFDM	(BPSK / QF	PSK / 160	QAM	/ 64QAM)
	IEE	E 802.11n/ac: see	the below ta	able		
Data Rate (Mbps)	IEE	E 802.11a: OFDM	(6/9/12/18/2	24/36/48/	54)	
	IEE	E 802.11n/ac: see	the below ta	able		
Channel Bandwidth	20/4	10/80 MHz operati	ng channel l	bandwidt	h	
Operating Mode		Master				
		Bridge				
		Mesh				
		Client with radar detection				
	\boxtimes	Client without radar detection				
Communication Mode	\square	IP Based (Load E	Based)	Frar	Frame Based	
TPC Function	\square	With TPC		U With	nout T	ГРС
Weather Band (5600~5650MHz)	\square	With 5600~5650	ИНz	U With	out 8	5600~5650MHz
Power-on cycle	NA (No Channel Availability Check Function)					
Software / Firmware Version	103	1030.25.701.2017				
Note: EUT employ a TPC mechar	nism ar	nd TPC have the c	apability to o	operate a	t lea	st 6 dB below highest RF
output power. Antenna & Bandwidth						
Antenna			Two) (TX)		
Band width Mode				80 MHz		
IEEE 802.11a		V X		Х		

Band width Mode	20 MHZ	40 MHZ	80 MHZ
IEEE 802.11a	V	Х	Х
IEEE 802.11n	V	V	Х
IEEE 802.11ac	V	V	V



IEEE 11n/ac Spec.

Protocol	Number of Transmit Chains (NTX)	Data Rate / MCS			
802.11n (HT20)	3	MCS0-15			
802.11n (HT40)	3	MCS0-15			
802.11ac (VHT20)	3	MCS 0-8/Nss1-2			
802.11ac (VHT40)	3	MCS 0-9/Nss1-2			
802.11ac (VHT80)	3	MCS 0-9/Nss1-2			
 Note 1: IEEE Std. 802.11n modulation consists of HT20 and HT40 (HT: High Throughput). Then EUT support HT20 and HT40. Note 2: HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation. Note 3: IEEE Std. 802.11ac modulation consists of VHT20, VHT40 and VHT80 (VHT: Very High Throughput). Then EUT support VHT20, VHT40 and VHT80. Note 4: VHT20, VHT40, VHT80 and VHT160 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation. Note 5: Modulation modes consist of below configuration: 11a: IEEE 802.11a, HT20/HT40: IEEE 802.11n, VHT20/VHT40/VHT80: IEEE 802.11ac 					

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector
1	2	LITEON	WN4521L	Printed Antenna	Murata
2	1	LITEON	WN4521L	Printed Antenna	Murata

Ant	Dort	Gain	(dBi)
Ant.	Port 2.4G		5G
1	2	2.5	2.0
2	1	2.4	2.0

For 2.4 GHz function:

For IEEE 802.11b/g/n mode (2TX/2RX)

Ant. 1 (port 2) and Ant. 2 (port 1) could transmit/receive simultaneously.

For 5 GHz function:

For IEEE 802.11a/n/ac mode (2TX/2RX)

Ant. 1 (port 2) and Ant. 2 (port 1) could transmit/receive simultaneously.



1.1.3 DFS Band Carrier Frequencies

There are three bandwidth systems.

For 20MHz bandwidth systems, use Channel 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136,

140,144.

For 40MHz bandwidth systems, use Channel 54, 62, 102, 110, 118, 126, 134,142. For 80MHz bandwidth systems, use Channel 58, 106, 122,138.

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
	52	5260 MHz	60	5300 MHz
5250~5350 MHz	54	5270 MHz	62	5310 MHz
Band 2	56	5280 MHz	64	5320 MHz
	58	5290 MHz	-	-
	100	5500 MHz	124	5620 MHz
	102	5510 MHz	126	5630 MHz
	104	5520 MHz	128	5640 MHz
	106	5530 MHz	132	5660 MHz
	108	5540 MHz	134	5670 MHz
5470~5725 MHz Band 3	110	5550 MHz	136	5680 MHz
Banu 3	112	5560 MHz	138	5690 MHz
	116	5580 MHz	140	5700 MHz
	118	5590 MHz	142	5710 MHz
	120	5600 MHz	144	5720 MHz
	122	5610 MHz	-	-

1.2 Support Equipment

	Support Equipment						
No.	Equipment	Brand Name	Model Name	FCC ID			
1	AP (Master)	EDIMAX	EW-7979WAC	NDD9576791401			
2	NoteBook	DELL	Latitude E5550	-			
3	Adapter for NB	DELL	FA90PSO-00	-			
4	NoteBook	DELL	Latitude E5540	-			
5	Adapter for NB	DELL	FA90PSO-00	-			



1.3 Testing Applied 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
- KDB 905462 D03 Client Without DFS New Rules v01r02

1.4 Testing Location Information

	Testing Location									
\square	HWA YA ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)									
	TEL : 886-3-327-3456 FAX : 886-3-327-0973									
	Test site Designation No. TW1190 with FCC.									
	JHUBEI	ADD	:	No.8, Lane 724	, Bo-ai St., Jhubei Cit	y, HsinChu County 302	2, Taiwan, R.O.C.			
		TEL	:	886-3-656-906	5 FAX : 886	6-3-656-9085				
				Test site De	signation No. TW000	6 with FCC.				
Test Condition Test Site No. Test Engineer Test Environment Test Date							Test Date			
DFS Site				DFS01-HY	Peng	26.7°C / 64.3%	19/Jul/2018			



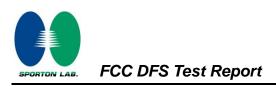
2 Test Configuration of EUT

2.1 Test Channel Frequencies Configuration

Test Channel Frequencies Configuration					
IEEE Std. Test Channel Freq. (MHz)					
802.11ac (VHT80)	5530 MHz				

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests					
Tests Item Dynamic Frequency Selection (DFS)					
Test Condition	Conducted measurement at transmit chains The EUT shall be configured to operate at the highest transmitter output power setting. If more than one antenna assembly is intended for this power setting, the gain of the antenna assembly with the lowest gain shall be used.				
Modulation Mode	802.11ac (VHT80)				



Dynamic Frequency Selection (DFS) Test Result 3

3.1 **General DFS Information**

3.1.1 **DFS Parameters**

Table D.1: DFS requirement values						
Parameter Value						
Non-occupancy period	Minimum 30 minutes					
Channel Availability Check Time	60 seconds					
Channel Move Time	10 seconds (Note 1).					
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second periods. (Notes 1 and 2).					
U-NII Detection Bandwidth	Minimum 100% of the 99% power bandwidth (Note 3).					
Type 0. The measurement timing begin Note 2: The Channel Closing Transmission Tim of the Channel Move Time plus any add	Closing Transmission Time should be performed with Radar s at the end of the Radar Type 0 burst. le is comprised of 200 milliseconds starting at the beginning ditional intermittent control signals required to facilitate					

Channel changes (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 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

Table D.2: Interference threshold values						
Maximum Transmit Power	Value (see note)					
EIRP ≥ 200 mW	-64 dBm					
EIRP < 200 mW and PSD < 10dBm/MHz	-62 dBm					
EIRP < 200 mW and PSD ≥ 10dBm/MHz	-64 dBm					
Note 1: This is the level at the input of the receiver assum	ing 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.



3.1.2 Applicability of DFS Requirements Prior to Use of a Channel

	DFS Operational mode					
Requirement	Master	Client without radar detection	Client with radar detection			
Non-Occupancy Period	Yes	Not required (See the note)	Yes			
DFS Detection Threshold	Yes	Not required	Yes			
Channel Availability Check Time	Yes	Not required	Not required			
U-NII Detection Bandwidth	Yes	Not required	Yes			

Note :

According to KDB 905462 D03 Client Without DFS New Rules v01r02 (b) 6."An analyzer plot that contains a single 30-minute sweep on the original channel "

3.1.3 Applicability of DFS Requirements during Normal Operation

	DFS Operational mode					
Requirement	Master	Client without radar detection	Client with radar detection			
DFS Detection Threshold	Yes	Not required	Yes			
Channel Closing Transmission Time	Yes	Yes	Yes			
Channel Move Time	Yes	Yes	Yes			
U-NII Detection Bandwidth	Yes	Not required	Yes			

Additional requirements for devices with multiple bandwidth modes	Master Device 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 tests	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.



3.1.4 Channel Loading/Data Streaming

	The data file (MPEG-4) has been transmitting in a streaming mode.					
\square	Software to ping the client is permitted to simulate data transfer with random ping intervals.					
\square	Minimum channel loading of approximately 17%.					
	Unicast protocol has been used.					



3.2 Radar Test Waveform Calibration

3.2.1 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Trials			
0	1	1428	18	See Note 1	See Note 1			
1A	1	15 unique PRI in KDB 905462 D02 Table 5a	$\left[(1), (19 \times 10^6) \right]$	60%	15			
1B	1	15 unique PRI within 518-3066, Excluding 1A PRI	$Roundup\left\{\left(\frac{1}{360}\right)\times\left(\frac{19\times10^{6}}{PRI}\right)\right\}$	60%	15			
2	1-5	150-230	23-29	60%	30			
3	3 6-10 200-500		16-18	60%	30			
4	11-20	200-500	12-16	60%	30			
Aggregate (Radar Types 1-4) 80%								

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

A minimum of 30 unique waveforms are required for each of the short pulse radar types 1 through 4. If more than 30 waveforms are used for short pulse radar types 1 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. The aggregate is the average of the percentage of successful detections of short pulse radar types 1-4.

3.2.2 Long Pulse Radar Test Waveform

Radar Type	Pulse Chirp Width Width (µsec) (MHz)		PRI (µsec)	Number of Pulses per <i>Burst</i>	Number of <i>Bursts</i>	Minimum Percentage of Successful Detection	Minimum Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Each waveform is defined as follows:

• The transmission period for the Long Pulse Radar test signal is 12 seconds.

 There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst Count.

 Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.

- The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.
- Each pulse has a linear FM chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a transmission period will have the same chirp width. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and

TEL : 886-3-327-3456 FAX : 886-3-327-0973 Report Template No.: HE1-D2 Ver2.1 FCC ID : PPQ-WN4521L Page Number: 13 of 23Issued Date: Jul. 26, 2018

: 01



ends at 5310 MHz.

- If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the time between the first and second pulses is chosen independently of the time between the second and third pulses.
- The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst Count. Each interval is of length (12,000,000 / Burst Count) microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and [(12,000,000 / Burst Count) (Total Burst Length) + (One Random PRI Interval)] microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen independently.

3.2.3 Frequency Hopping Radar Test Waveform

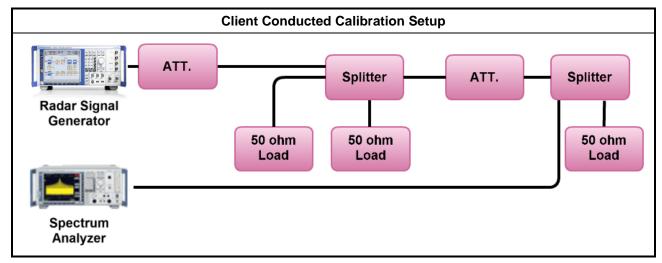
Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ms)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	0.333	300	70%	30

The FCC Type 6 waveform uses a static waveform with 100 bursts in the instruments ARB. In addition, the RF list mode is operated with a list containing 100 frequencies from a randomly generated list and it had be ensured that at least one of the random frequencies falls into the UNII Detection Bandwidth of the DUT. Each burst from the waveform file initiates a trigger pulse at the beginning that switches the RF list from one item to the next one.

3.2.4 DFS Threshold Level

DFS Threshold Level					
DFS Threshold level:	-63	dBm	☑ at the antenna connector		
			in front of the antenna		
The Interference Radar Detection Threshold Level is is $-64 dBm + 0 [dBi] + 1 dB = -63 dBm$. That had been taken into account the output power range and antenna gain.					

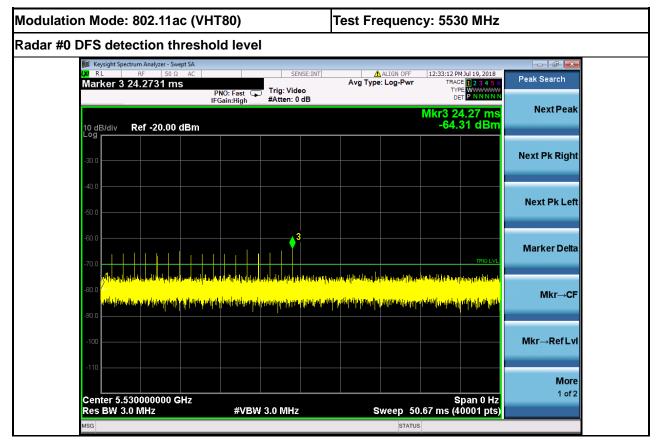
3.2.5 Calibration Setup



Page Number	: 14 of 23
Issued Date	: Jul. 26, 2018
Report Version	: 01

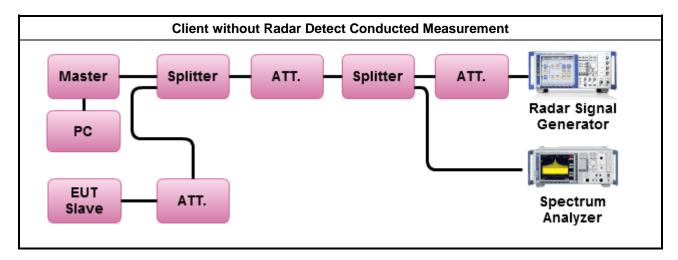


3.2.6 Radar Waveform calibration Plot



3.2.7 Test Setup

A spectrum analyzer is used as a monitor to verify that the EUT has vacated the Channel within the (Channel Closing Transmission Time and Channel Move Time, and does not transmit on a Channel during the Non-Occupancy Period after the detection and Channel move.



TEL : 886-3-327-3456	Page Number	: 15 of 23
FAX : 886-3-327-0973	Issued Date	: Jul. 26, 2018
Report Template No.: HE1-D2 Ver2.1	Report Version	: 01
FCC ID : PPQ-WN4521L		

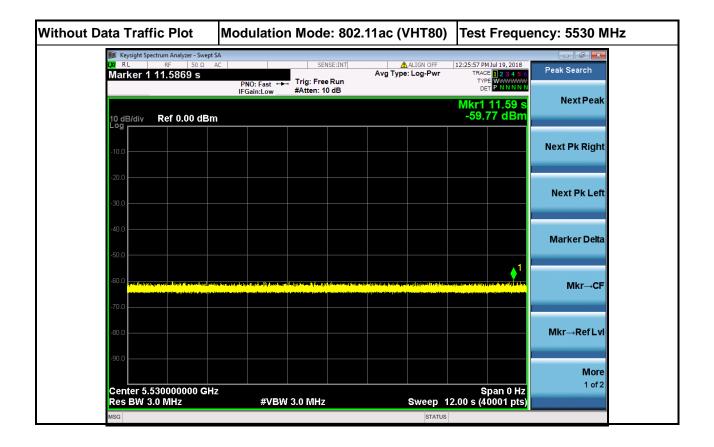


3.2.8 Data traffic Plot



: 16 of 23 : Jul. 26, 2018







3.3 In-service Monitoring

3.3.1 In-service Monitoring Limit

In-service Monitoring Limit				
Channel Move Time	10 sec			
Channel Closing Transmission Time	200 ms + an aggregate of 60 ms over remaining 10 sec periods.			
Non-occupancy period	Minimum 30 minutes			

3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method
Verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. Client Device will associate with the EUT. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). Compare the Channel Move Time and Channel Closing Transmission Time limits.
Verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. One 12 sec plot needs to be reported for the Short Pulse Radar Types 0. And zoom-in a 60 ms plot verified channel closing time for the aggregate transmission time starting from 200ms after the end of the radar signal to the completion of the channel move.
Verified during In-Service Monitoring; Non-Occupancy Period. Client Device will associate with the EUT. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Non-Occupancy Period). Compare the Non-Occupancy Period limits.

3.3.4 Test Result of In-service Monitoring

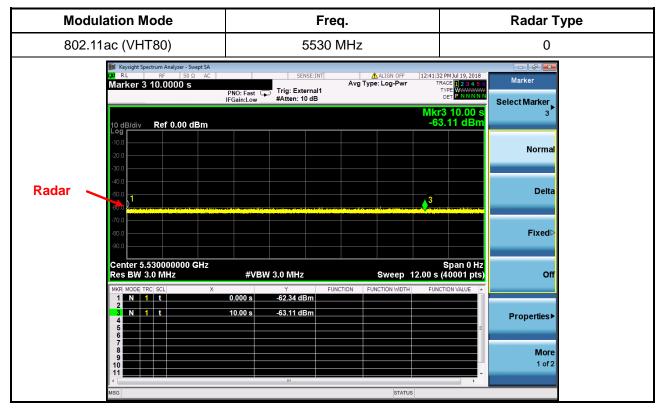
Modulation Mode: 802.11ac (VHT80)

Devemeder	Test Result	Limit	
Parameter	Туре 0		
Test Channel (MHz)	5530 MHz	-	
Channel Move Time (sec.)	0.000	< 10s	
Channel Closing Transmission Time (ms) (Note)	0.000	< 60ms	
Non-Occupancy Period (min.)	≧30	\geq 30 min	

Note: 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 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.



3.3.5 Test Plot of In-Service Monitoring for Channel Move Time





3.3.6 Test Plot of In-Service Monitoring for Channel Closing Transmission Time

802.11ac (VHT80) annel Closing Transmission Time ne plus 60ms additional intermitter	5530 MHz is comprised of 200 ms starting at nt control signals	0 the beginning of the Channel N
		the beginning of the Channel M
200 0 -10 -20 -20 -30 -40 -50 -60 -60 -70 -70 -80 -90 -90 -200 -20 -20 -30 -40 -20 -20 -20 -20 -20 -20 -20 -2	500m 550m 600m 650m 700m 750m 800	Z1[s] NaNs Z2[s] NaNs Zcom TX 300us Zcom TX 30 DC-Zcom 0.000375



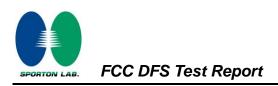
3.3.7 Test Plot of In-Service Monitoring for Non-Occupancy Period

Modulation Mode	Freq.		
802.11ac (VHT80)	5530 MHz		

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.

Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC Marker 3 1.84310 ks	PNO: Fast ↔ IFGain:Low	SENSE:INT Trig: Free Run #Atten: 10 dB	ALIGN OFF Avg Type: Log-Pwr	12:19:58 PM Jul 19, 2018 TRACE 1 2 3 4 5 6 TYPE WWWWW DET P NNNNN	Marker
10 dB/div Ref 0.00 dBm	I SUMEON			Mkr3 1.843 ks -61.34 dBm	Select Marker 3
-10.0 -20.0 X2					Norma
-30.0				3	Delta
-70.0 -80.0 -90.0					Fixed⊳
Center 5.530000000 GHz Res BW 3.0 MHz	#VBW	3.0 MHz	Sweep 2.	Span 0 Hz 000 ks (40001 pts)	Off
MKR MODE TRC SCL X 1 Δ2 1 t (Δ) 2 F 1 t 3 N 1 t 4 - - - 5 - - - 6 - - -	10.00 s (Δ) 43.10 s 1.843 ks	Y FL -42.56 dB -18.27 dBm -61.34 dBm	INCTION FUNCTION WIDTH	FUNCTION VALUE	Properties►
7 8 9 10 11					More 1 of 2
<		III	STATUS	•	



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	Keysight	N9010A	MY55150165	9kHz~7GHz	08/Nov/2017	07/Nov/2018
Vector Signal Generator	R&S	SMU200A	102098	100kHz ~ 6GHz	12/Feb/2018	13/Feb/2019
RF cable 0.5m	HUBER+SUHNER	SUCOFLEX 104	MY23003/4	25 MHz ~ 26.5 GHz	01/Nov/2017	31/Oct/2018
RF cable 0.2m	HUBER+SUHNER	SUCOFLEX 104	SN324530/4	25 MHz ~ 26.5 GHz	01/Nov/2017	31/Oct/2018
RF cable 2m	MTJ Cooperation	000000-MT18A-200	D5100	1 GHz ~ 40 GHz	02/Nov/2016	01/Nov/2017



5 Measurement Uncertainty

Test Items	Uncertainty	Remark
Conducted Emission	1.3 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	4 %	Confidence levels of 95%