

Report No. : FZ922713



FCC DFS Test Report

FCC ID	: COF-MS01PRO
Equipment	: LTE SOM Module
Brand Name	: USI
Model Name	: MS-01 PRO, MS-01 PRO-V
Applicant	: Universal Global Scientific Industrial Co., Ltd 141, Lane 351, Sec. 1, Taiping Road, Tsaotuen, Nantou 54261, Taiwan
Manufacturer	: Universal Global Scientific Industrial Co., Ltd 141, Lane 351, Sec. 1, Taiping Road, Tsaotuen, Nantou 54261, Taiwan
Standard	: 47 CFR FCC Part 15.407

The product was received on Mar. 04, 2019, and testing was started from Mar. 22, 2019 and completed on Mar. 22, 2019. 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.)



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Photographs of EUT V01



History of this test report

Report No.	Version	Description	Issued Date
FZ922713	01	Initial issue of report	Apr. 25, 2019



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

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

None

Reviewed by: Ben Tseng

Report Producer: Jenny Yang



1 General Description

1.1 Information

1.1.1 **RF General Information**

Specification Items	Description				
Product Type	WL	WLAN (2TX, 2RX)			
Radio Type	Inte	ntional Transceiver			
Power Type	Fro	m power adapter			
Modulation	IEE	E 802.11a: OFDM (BPSK / Q	PSK	/ 16QAM / 64QAM)	
	IEE	E 802.11n/ac: see the below	table		
Data Rate (Mbps)	IEE	E 802.11a: OFDM (6/9/12/18,	/24/3	6/48/54)	
	IEE	E 802.11n/ac: see the below	table		
Channel Bandwidth	20/4	10/80 MHz operating channel	band	dwidth	
Operating Mode		Master			
		Bridge			
		Mesh			
		Client with radar detection			
	\boxtimes	Client without radar detectio	n		
Communication Mode	\boxtimes	IP Based (Load Based)		Frame Based	
TPC Function	\square	With TPC		Without TPC	
Weather Band (5600~5650MHz)		With 5600~5650MHz	\boxtimes	Without 5600~5650MHz	
Power-on cycle	NA (No Channel Availability Check Function)				
Software / Firmware Version	Refer as 1.1.4				
Note: EUT employ a TPC mechanis output power.	Note: EUT employ a TPC mechanism and TPC have the capability to operate at least 6 dB below highest RF output power.				

Antenna & Bandwidth

Antenna	Two (TX)			
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)	2	MCS 0-15				
802.11n (HT40)	2	MCS 0-15				
802.11ac (VHT20)	2	MCS 0-8/Nss1-2				
802.11ac (VHT40)	2	MCS 0-9/Nss1-2				
802.11ac (VHT80)	2	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 and VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 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.	Brand	Model Name	Antenna Type	Connector
1	Aristotle	RFA-25-C2H1-70-250A1	Dipole antenna	mini murata
2	Aristotle	RFA-25-C2H1-70-250A1	Dipole antenna	mini murata

Ant.	Port	Gain (dBi)				
Ant.	FOIL	2.4G	5G	ВТ		
1	1	1.44	2.16	1.44		
2	2	1.44	2.16	-		

Note 1: The EUT has two antennas.

Note 2: The antenna mentioned above will not be sold with the EUT in the market.

For 2.4GHz function:

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

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

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Only Ant. 1 (port 1) can be used as transmitting/receiving antenna.

For 5GHz function:

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

Ant. 1 (port 1) and Ant. 2 (port 2) 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, 132, 136, 140.

For 40MHz bandwidth systems, use Channel 54, 62, 102, 110, 134.

For 80MHz bandwidth systems, use Channel 58, 106

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
	52	5260 MHz	60	5300 MHz
5250~5350 MHz	54	5270 MHz	62	5310 MHz
U-NII-2A	56	5280 MHz	64	5320 MHz
	58	5290 MHz	-	-
	100	5500 MHz	112	5560 MHz
	102	5510 MHz	116	5580 MHz
5470~5725 MHz	104	5520 MHz	132	5660 MHz
U-NII-2C	106	5530 MHz	134	5670 MHz
	108	5540 MHz	136	5680 MHz
	110	5550 MHz	140	5700 MHz

1.1.4 Table for Multiple Listing

Model Name	Firmware Version	WWAN Voice Function	Description
MS-01 PRO	sdm660_64-userdebug 9 MS01Pro-P-DO-V1.00	х	The difference is WWAN voice function
MS-01 PRO-V	sdm660_64-userdebug 9 MS01Pro-P-V1.00	V	and firmware version, and firmware version does not affect RF function.

Note: Only "MS-01 PRO" configuration was measured during the test.



1.2 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

1.3 Testing Location Information

	Testing Location						
\square	HWA YA	ADD :	No. 52, Hu	aya 1st Rd., Guisha	n Dist., Taoyuan City, Taiwan (R	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., Jhu	pei City, HsinChu County 302, T	aiwan, R.O.C.	
		TEL :	886-3-656-	9065 FAX	886-3-656-9085		
	Test site Designation No. TW0006 with FCC.						
Те	Test Condition Test Site No. Test Engineer Test Environment Test Date						
	DFS Site	DF	S01-HY	Peng	26.1~26.3℃ / 63.5~63.8%	22/Mar/2019	



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

Th	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)				

2.3 Support Equipment

	Support Equipment							
No.	Equipment	Brand Name	Model Name					
1	AP (Master)	EDIMAX	EW-7679WAC					
2	NoteBook	DELL	Latitude E5550					
3	Adapter for NB	DELL	FA90PSO-00					
4	NoteBook	DELL	Latitude E5540					
5	Adapter for NB	DELL	FA90PSO-00					
6	Test Fixture	-	-					

Note: Support equipment No.6 was provided by customer.



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).				
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					

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 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.



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.
\boxtimes	Software to ping the client is permitted to simulate data transfer with random ping intervals.
\boxtimes	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	6-10 200-500		16-18	60%	30				
4	11-20	200-500	12-16	60%	30				
Aggrega	Aggregate (Radar Types 1-4) 80% 120								

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 Width (µsec)	Chirp Width (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

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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

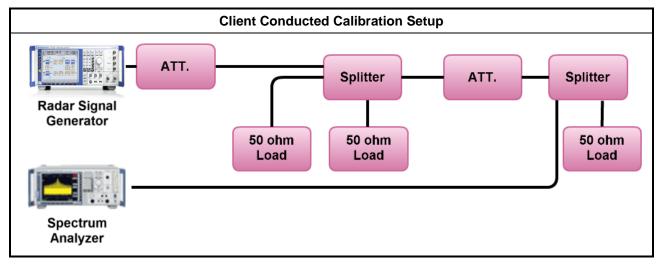
Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ms)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	0.333	300	70%	30

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.

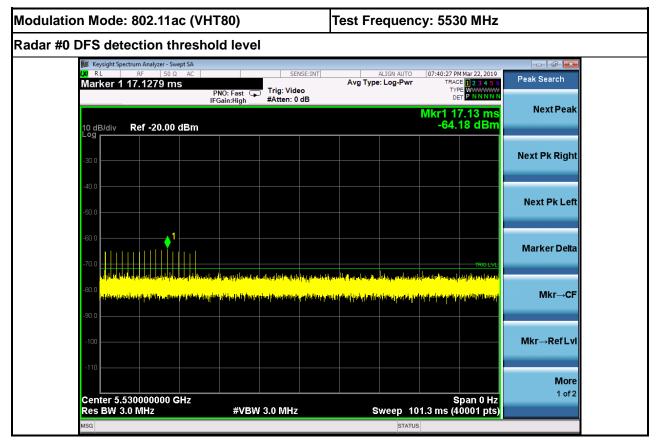
3.2.4 DFS Threshold Level

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

3.2.5 Calibration Setup

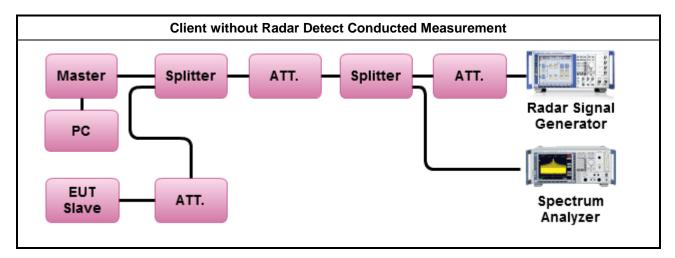


3.2.6 Radar Waveform calibration Plot



3.2.7 Test Setup

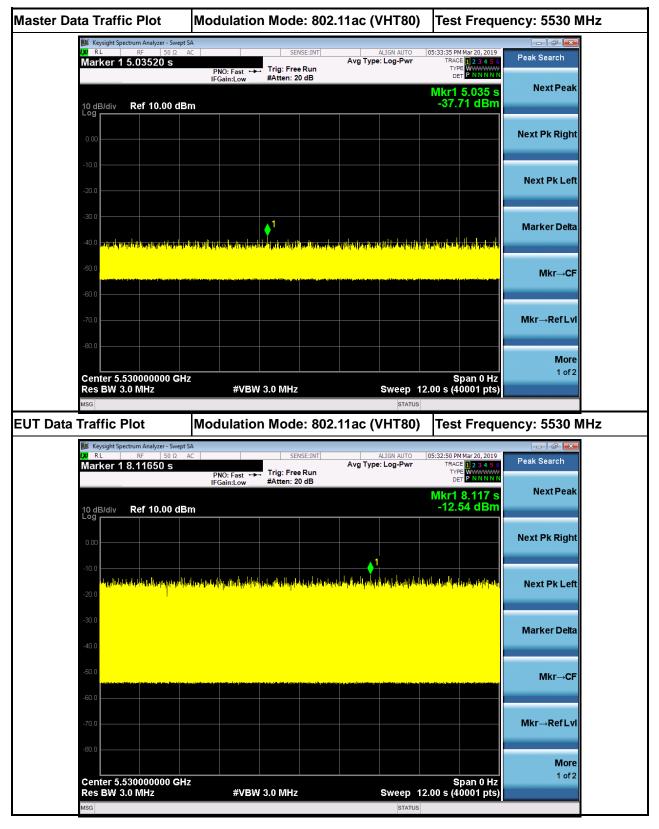
A spectrum analyzer is used as a monitor to verify that the EUT has vacated the Channel within the (Channel Closing Transmission Time and Channel Move Time, and does not transmit on a Channel during the Non-Occupancy Period after the detection and Channel move.



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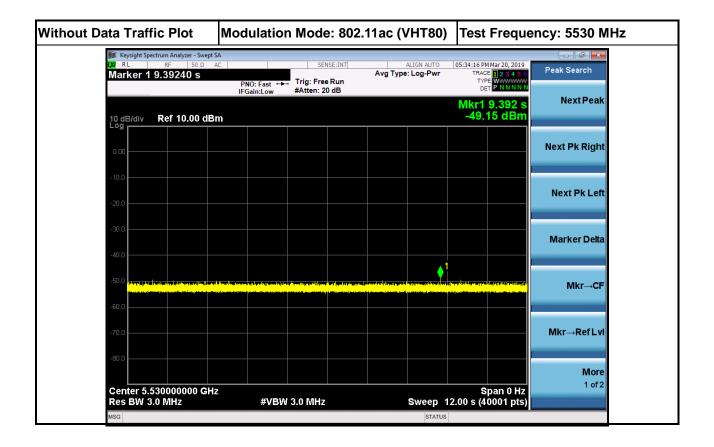


3.2.8 Data traffic Plot



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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

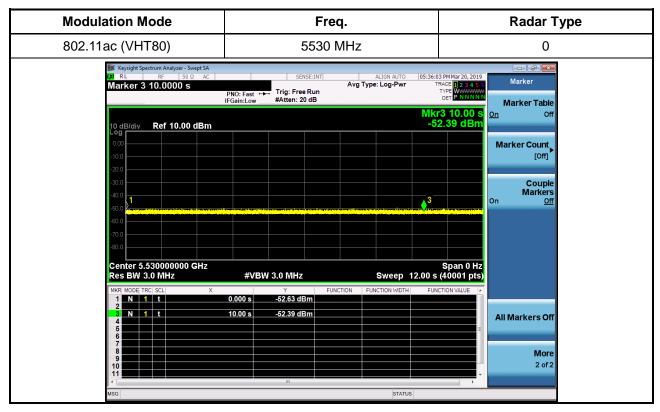
Modulation Mode: 802.11ac (VHT80)

Devementer	Test Result	1 : :4
Parameter	Туре 0	Limit
Test Channel (MHz)	5530 MHz	-
Channel Move Time (sec.)	0	< 10s
Channel Closing Transmission Time (ms) (Note)	0	< 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) 5530 MHz 0 Channel Closing Transmission Time is comprised of 200 ms starting at the beginning of the Channel Time plus 60ms additional intermittent control signals Image: Comparison of the Channel Starting at the beginning at the beginning of the Channel Starting at the beginning at the beginnight at the beginning at the beginning at the beginnight a
Zoom Zi[s] 0 10 -10 10 -20 20 -30 10 -40 10
0
-50
-100-1 200m 250m 300m 350m 400m 450m 500m 550m 600m 650m 700m



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.

Marker Select Marker	3 Norma	Delta	Fixed⊳	Off	Properties▶	More 1 of 2
06:20:43 PMMar 20, 2019 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET PNNNNN	Mkr3 1.829 ks -50.85 dBm	3		Span 0 Hz 00 ks (40001 pts) FUNCTION VALUE	E	
r						
ALIGN AUTO Type: Log-Pwr				Sweep 2		
Avg				FUNCTION		
				z	BdB dBm dBm	
				W 3.0 MH: Y) -43.28 -7.90 c -50.85 c	
PNO: Fast IFGain:Low					10.00 s (28.75 s 1.829 ks	
yzer - Swept SA 50 Ω AC 75 KS	0.00 dBm			0000 GHz		
RF	Ref	2		3.0 MI		
Keysight Sp RL I rker 3	dB/div			NTER 5. SBW 3	Δ2 F N	



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	15/Nov/2018	14/Nov/2019
Vector Signal Generator	R&S	SMU200A	102098	100kHz ~ 6GHz	26/Feb/2019	25/Feb/2020
RF cable 0.5m	HUBER+ SUHNER	SUCOFLEX 104	MY22999/4	25 MHz ~ 26.5 GHz	01/Nov/2018	31/Oct/2019
RF cable 0.5m	MTJ Cooperation	000000-MT26A-50	D5106	1 GHz ~ 40 GHz	01/Nov/2018	31/Oct/2019
RF cable 0.2m	MTJ Cooperation	000000-MT26A-20	D5101	1 GHz ~ 40 GHz	01/Nov/2018	31/Oct/2019
RF cable 2m	MTJ Cooperation	000000-MT18A-200	D5100	1 GHz ~ 40 GHz	01/Nov/2018	31/Oct/2019



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%