

# FCC DFS Test Report

**FCC ID** : QXO-AP3825E  
**Equipment** : 11ac 5G radio module  
**Model No.** : PCE4551AH-ETS  
**Brand Name** : Extreme Networks  
**Applicant** : Extreme Networks, Inc.  
**Address** : 9 Northeastern Blvd., Salem, New Hampshire,  
United States, 03079  
**Standard** : 47 CFR FCC Part 15.407  
**Received Date** : Sep. 30, 2015  
**Tested Date** : Oct. 05 ~ Oct. 07, 2015  
**Operating Mode** : Master

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:

  
\_\_\_\_\_  
Gary Chang / Manager



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## Release Record

Report No.	Version	Description	Issued Date
FZ382401-02	Rev. 01	Initial issue	Dec. 03, 2015
FZ382401-02	Rev. 02	Add test frequency of section 3.5.3	Dec. 16, 2015

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## Summary of Test Results

FCC Rules		Description of Test	Result
FCC 15.407	KDB 905462 D02	Non-Occupancy Period	Pass
FCC 15.407	KDB 905462 D02	DFS Detection Threshold	Pass
FCC 15.407	KDB 905462 D02	Channel Availability Check Time	Pass
FCC 15.407	KDB 905462 D02	U-NII Detection Bandwidth	Pass
FCC 15.407	KDB 905462 D02	Channel Closing Transmission Time	Pass
FCC 15.407	KDB 905462 D02	Channel Move Time	Pass

# 1 General Description

## 1.1 Information

### 1.1.1 Specification of the Equipment under Test (EUT)

Frequency Range (GHz)	5.15~5.25, 5.25~5.35, 5.47~5.725, 5.725~5.85
Wireless Function	11a / HT20 / HT40 / VHT20 / VHT40 / VHT80
TDWR band(5600-5650MHz)	<input type="checkbox"/> On <input checked="" type="checkbox"/> OFF
Operating Mode at DFS Band	Master

### 1.1.2 Antenna Details

Ant. No.	Model	Ant. Type	Connector	Gain (dBi)	Application
1	WS-ANT-5DIP-3	Dipole	RPSMA	3	P to MP
2	N/A	PIFA	UFL	6	P to MP
	ANT-PIFA7262AG	PIFA	UFL	5.5	P to MP
3	WS-AI-DX07025	Panel	RPSMA	5.5	P to MP
4	WS-AI-DX10055	Panel	RPSMA	6	P to MP
5	WS-AI-DX02360	Omni	RPSMA	2	P to MP
6	WS-AI-DT05120	Sector	RPSMA	5	P to MP

Note:

- The antennas are professionally installed.
- Lowest gain antenna is selected for DFS test.

### 1.1.3 Specific host for DFS test

The module will be installed with below hosts. The difference between both models is only used antenna. PIFA antenna of section 1.1.2 is used for WS-AP3825i. All antennas of section 1.1.2 except PIFA are used for WS-AP3825e. WS-AP3825e is selected for DFS test since used antenna has minimum antenna gain.

Brand Name	Model Name	Product Name	Description	Firmware / Software Version
Extreme Networks	WS-AP3825i	Wireless 802.11 a/ac+ b/g/n Access Point	Internal Antenna	09.15.04.0011
	WS-AP3825e		External Antennas	09.15.04.0011

### 1.1.4 Highest and Possible Lowest Power Level

Highest Power Level and Possible Lowest Power Level					
Frequency Band	Modulation Mode	Highest RF Output Power (dBm)	Highest EIRP (dBm)	Lowest RF Output Power (dBm)	Lowest EIRP (dBm)
5.3G	11 a	22.72	24.76	16.72	18.76
5.6G	11 a	22.31	24.50	16.31	18.50
5.3G	11n HT20	22.91	25.45	16.91	19.45
5.6G	11n HT20	22.72	25.16	16.72	19.16
5.3G	11n HT40	23.84	28.20	17.84	22.20
5.6G	11n HT40	23.67	28.09	17.67	22.09
5.3G	11ac VHT20	22.95	25.54	16.95	19.54
5.6G	11ac VHT20	22.76	25.16	16.76	19.16
5.3G	11ac VHT40	23.91	28.26	17.91	22.26
5.6G	11ac VHT40	23.71	28.20	17.71	22.20
5.3G	11ac VHT80	16.53	22.17	10.53	16.17
5.6G	11ac VHT80	23.83	27.60	17.83	21.60

### 1.2 Support Equipment List

Support Equipment List				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Client	Cisco	AE6000	Q87-AE6000
2	Notebook	DELL	LATITUDE-E6430	9ZFB4X1
3	Notebook	DELL	LATITUDE-E5420	B6FV9T1

### 1.3 The Equipment List

Test Site	(DF01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV 7	101607	Dec. 09, 2014	Dec. 08, 2015
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Feb. 03, 2015	Feb. 02, 2016
RF Cable	HUBER+SUHNER	SUCOFLEX_104	MY15686/4	Dec. 19, 2014	Dec. 18, 2015
RF Cable	HUBER+SUHNER	SUCOFLEX_104	296081/4	Dec. 19, 2014	Dec. 18, 2015
RF Cable	HUBER+SUHNER	SUCOFLEX_104	500199/4	Dec. 19, 2014	Dec. 18, 2015
RF Cable	HUBER+SUHNER	SUCOFLEX_104	500202/4	Dec. 19, 2014	Dec. 18, 2015
RF Cable	HUBER+SUHNER	SUCOFLEX_104	296088/4	Dec. 19, 2014	Dec. 18, 2015
RF Cable	HUBER+SUHNER	SUCOFLEX_104	329023/4	Dec. 19, 2014	Dec. 18, 2015
RF Cable	HUBER+SUHNER	SUCOFLEX_104	329021/4	Dec. 19, 2014	Dec. 18, 2015
Vector signal generator	R&S	SMJ100A	100498	Dec. 22, 2014	Dec. 21, 2015
Note: Calibration Interval of instruments listed above is one year.					

### 1.4 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
DFS	DF01-WS	26°C / 67%	Jack Li

### 1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.407

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v01r02

FCC KDB 905462 D04 Operational Modes for DFS Testing v01

FCC KDB 905462 D06 802 11 Channel Plans v01

## 2 Technical Requirements for DFS

### 2.1 Applicability of DFS Requirements

#### 2.1.1 Applicability of DFS Requirements Prior to use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	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

#### 2.1.2 Applicability of DFS Requirements during Normal Operation

Requirement	Operational Mode	
	Master or Client With Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	Operational Mode	
	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 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 all 20 MHz channel blocks and a null frequencies between the bonded 20 MHz channel blocks.



## 2.2 DFS Detection Thresholds and Response Requirement

Below table provides the DFS Detection Thresholds for Master Devices as well as Client Devices incorporating In-Service Monitoring.

### DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection.

Maximum Transmit Power	Value (See Notes 1 , 2 and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm / MHz	-62 dBm
EIRP < 200 milliwatt and 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: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

### 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 U- NII 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.

## 2.3 Radar Test Waveforms

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. 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.

### 2.3.1 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 Note1	See Note1
1		Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \left( \frac{1}{360} \right), \left( \frac{19 \cdot 10^6}{PRI_{\mu sec}} \right) \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
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
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 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

**Pulse Repetition Intervals Values for Test A**

<b>Pulse Repetition Frequency Number</b>	<b>Pulse Repetition Frequency (Pulses Per Second)</b>	<b>Pulse Repetition Interval (Microseconds)</b>
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

### Long Pulse Radar Test Waveform

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

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

### 2.3.2 Frequency Hopping Radar Test Waveform

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

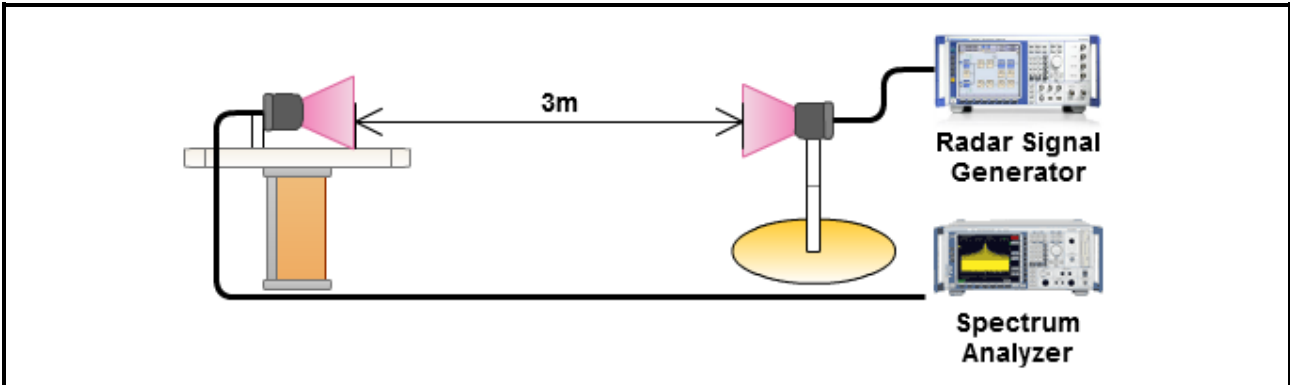
For the Frequency Hopping Radar Type, the same *Burst* parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely

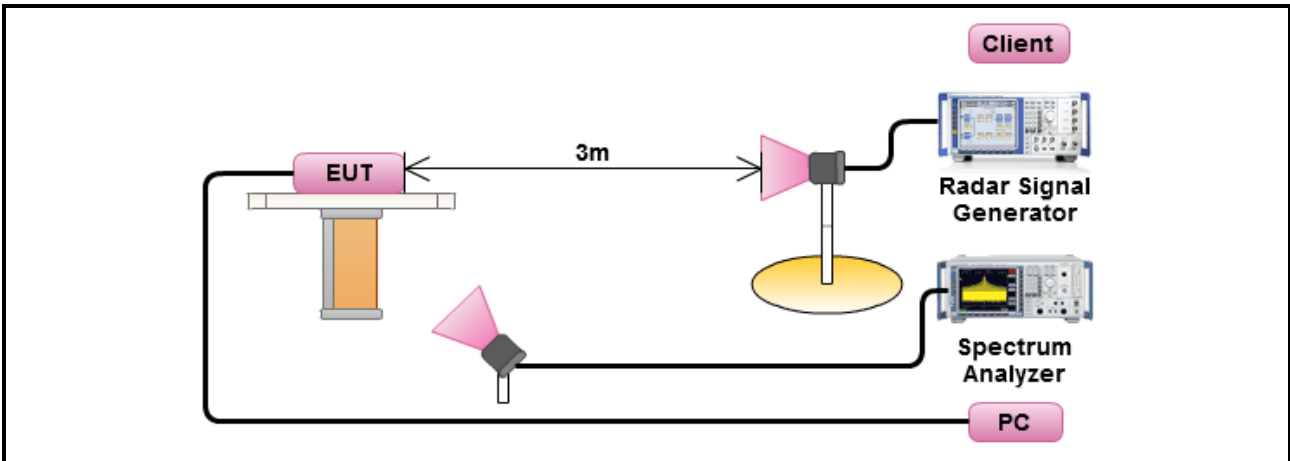
### 2.3.3 Radar waveform generation

A single R&S SMU200A Vector Signal Generator is used for the DFS signal generation. This instrument is capable of generating all the above waveforms with Pulse Sequencer Software. The R&S Pulse Sequencer Software comes as a stand-alone PC based software with preconfigured project files for DFS. It simplifies the generation of all required waveforms and offers a one box solution

### 2.3.4 Calibration Setup for DFS Detection Threshold levels

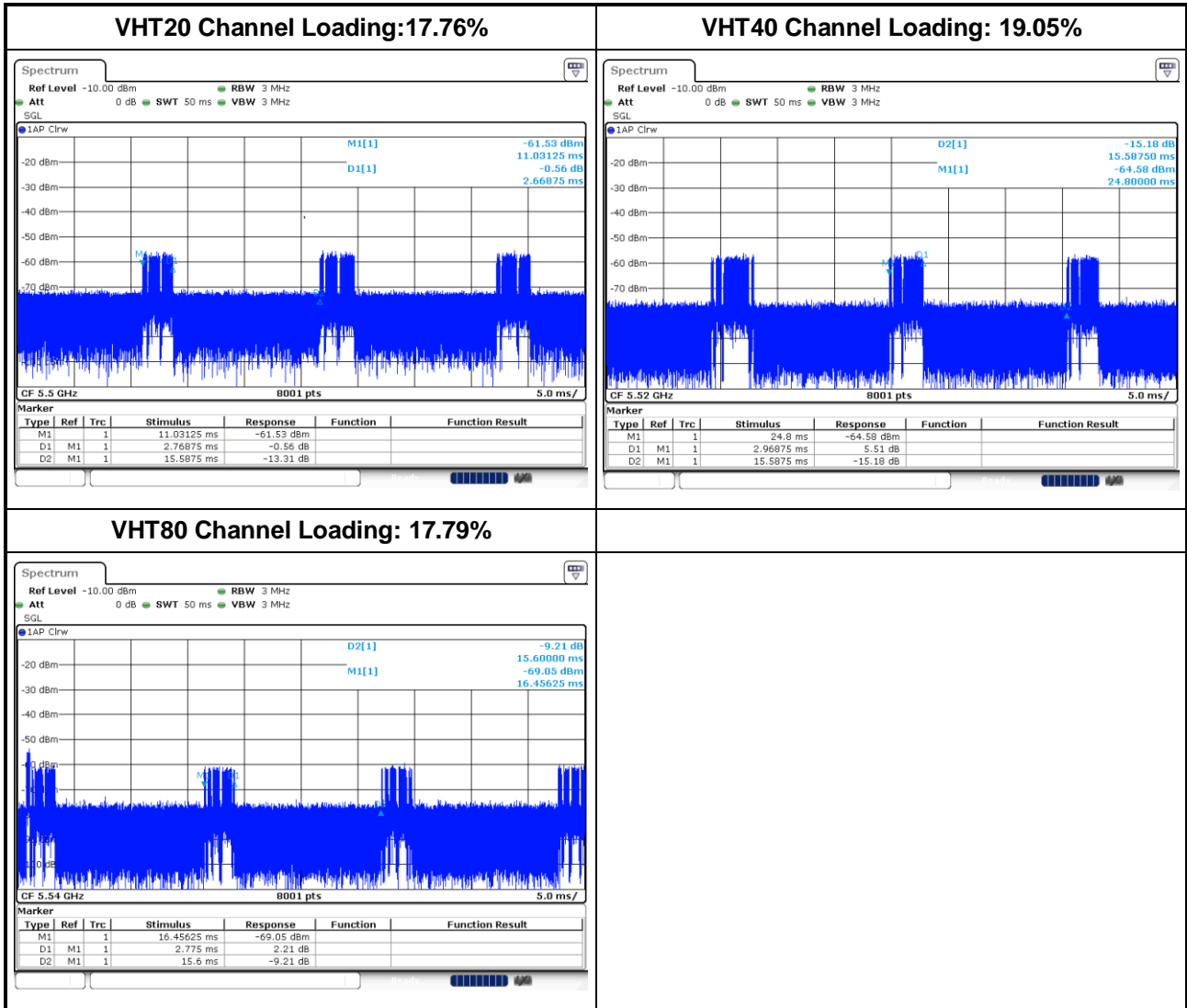


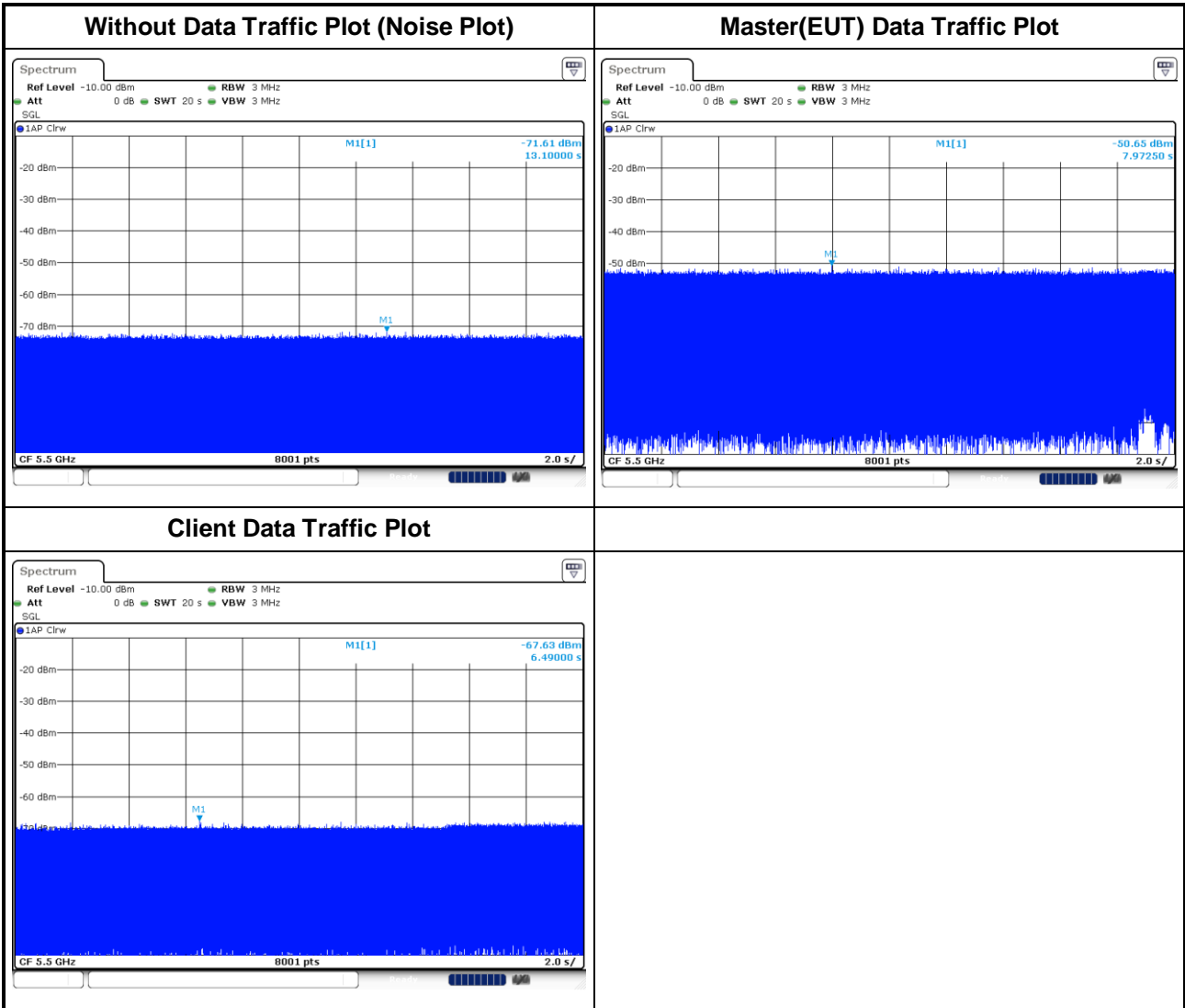
### 2.3.5 DFS Test Setup



### 2.3.6 Channel Loading/Data Streaming

<input checked="" type="checkbox"/>	IP Based (Load Based) - stream the test file from the Master to the Client.
<input type="checkbox"/>	The data file must be of a type that is typical for the device (i.e., MPEG-2, MPEG-4, WAV, MP3, MP4, AVI, etc.) and must generally be transmitting in a streaming mode.
<input checked="" type="checkbox"/>	Minimum channel loading of approximately 17 %

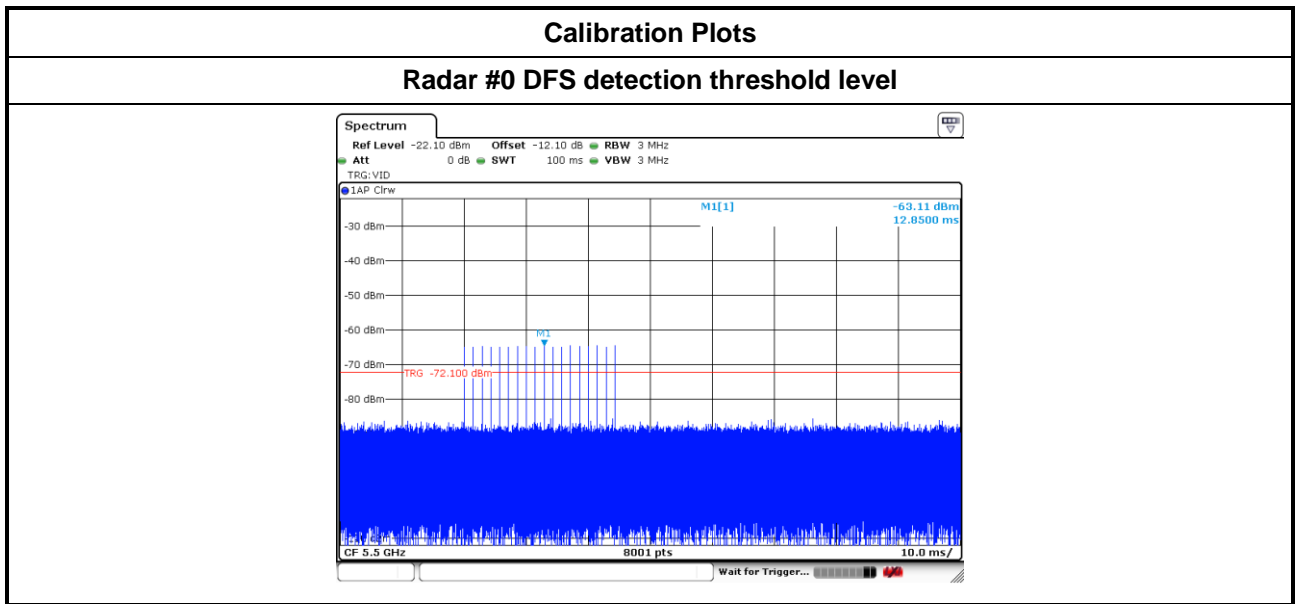




### 3 DFS test result

#### 3.1 DFS Detection Threshold levels

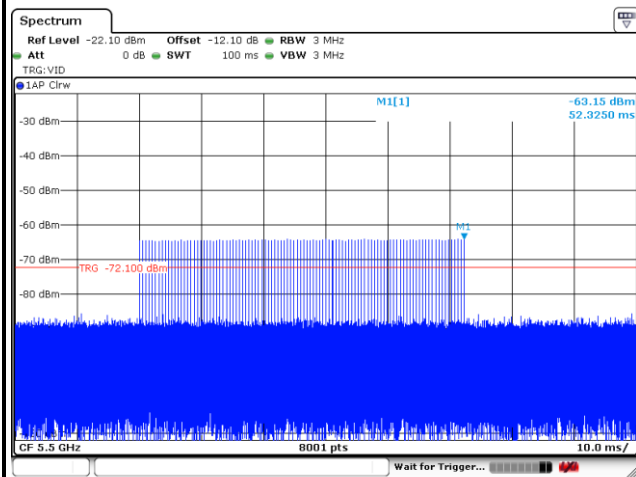
Master DFS Threshold Level
DFS Threshold level: -63 dBm
The Interference <b>Radar Detection Threshold Level</b> is $(-64\text{dBm}) + (1 \text{ dB}) = -63 \text{ dBm}$ . That had been taken into account the master output power range and antenna gain.



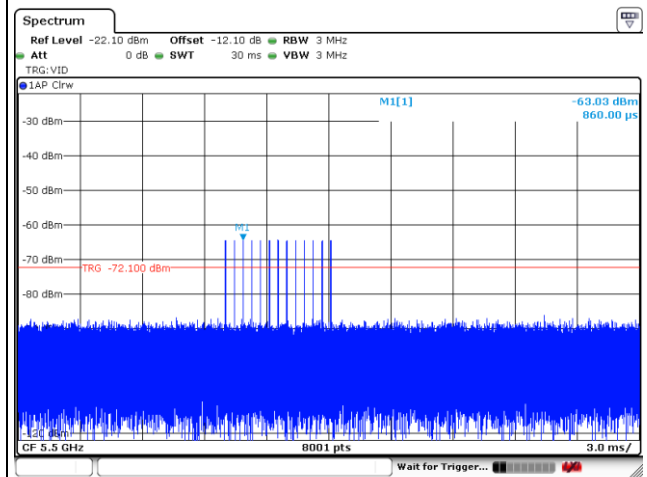


### Calibration Plots

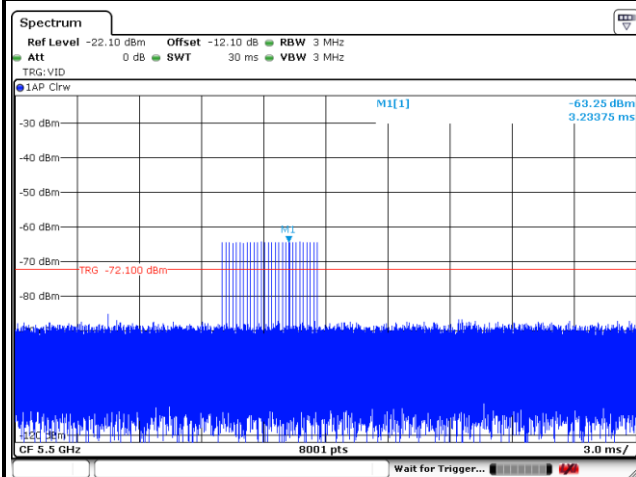
**Radar #1 DFS detection threshold level**



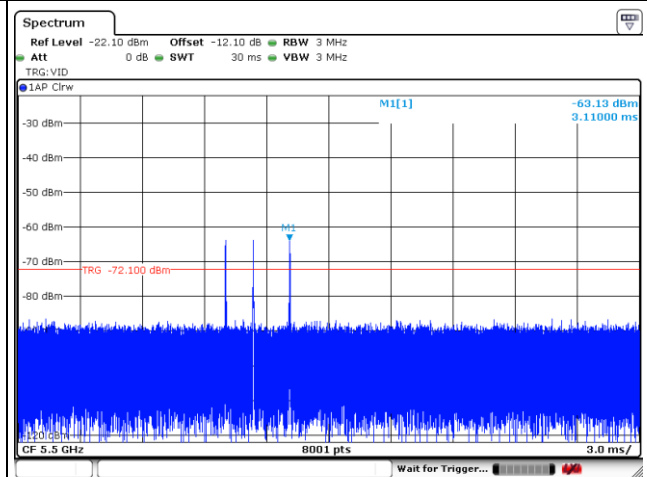
**Radar #4 DFS detection threshold level**



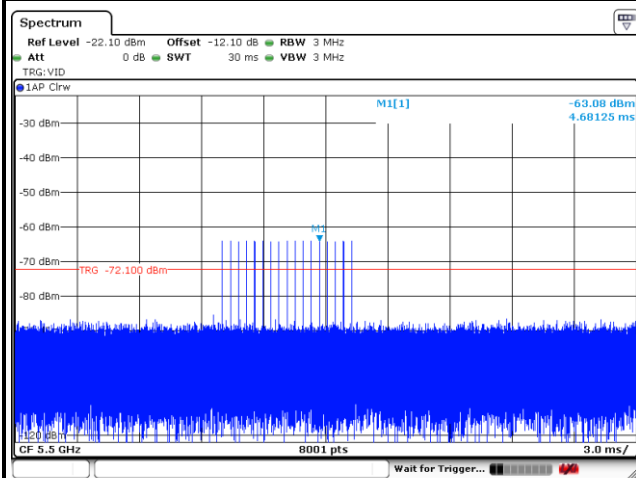
**Radar #2 DFS detection threshold level**



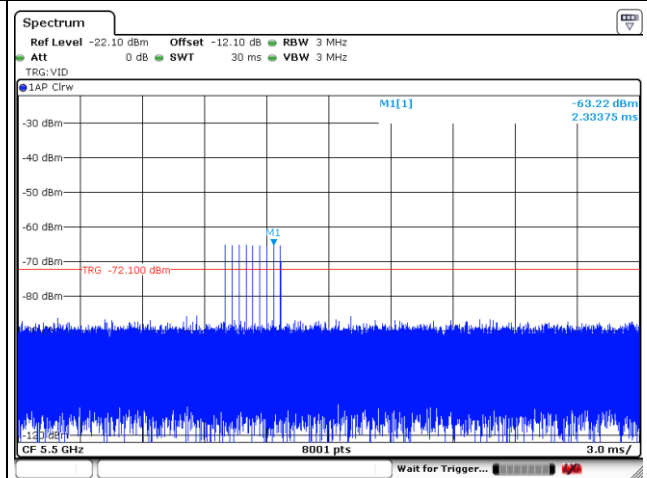
**Radar #5 DFS detection threshold level**



**Radar #3 DFS detection threshold level**



**Radar #6 DFS detection threshold level**



## 3.2 UNII Detection Bandwidth

### 3.2.1 UNII Detection Bandwidth Limit

Channel Bandwidth (MHz)	99% Power Bandwidth (MHz)	UNII Detection Bandwidth (MHz)
20	17.32	18
40	36.8	37
80	75.6	76

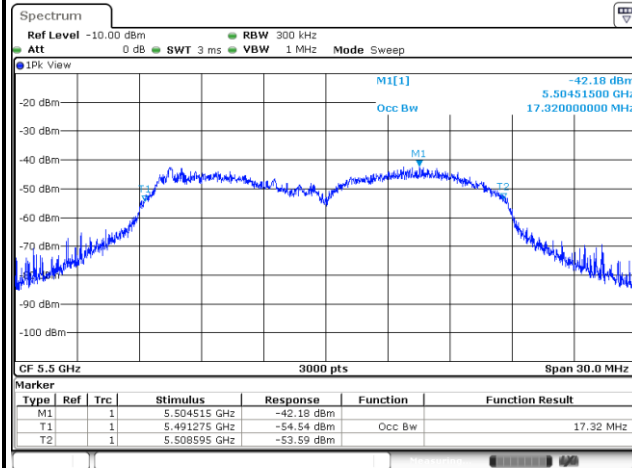
UNII Detection Bandwidths minimum 100% of the 99% power bandwidth. A single radar Burst is generated for a minimum of 10 trials, and the response of the UUT is noted. The UUT must detect the Radar Waveform 90% or more of the time.

### 3.2.2 Test Procedures

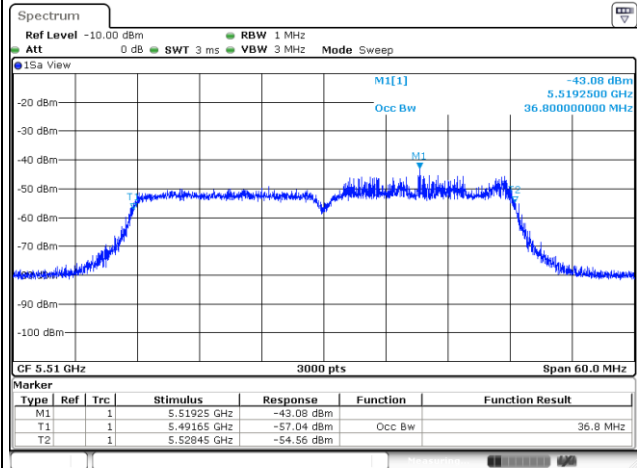
Test Method
<input checked="" type="checkbox"/> Refer as FCC KDB 905642 D02, clause 7.8.1 for UNII Detection Bandwidth test. During the U-NII Detection Bandwidth detection test, radar type 0 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic. The EUT is set up as a standalone device (no associated Client and no traffic).The radar frequency is increased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The highest frequency at which detection is greater than or equal to 90% is denoted as $F_H$ . The radar frequency is decreased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The lowest frequency at which detection is greater than or equal to 90% is denoted as $F_L$ . UNII Detection Bandwidth = $F_H - F_L$ .

### Emission Bandwidth Plots

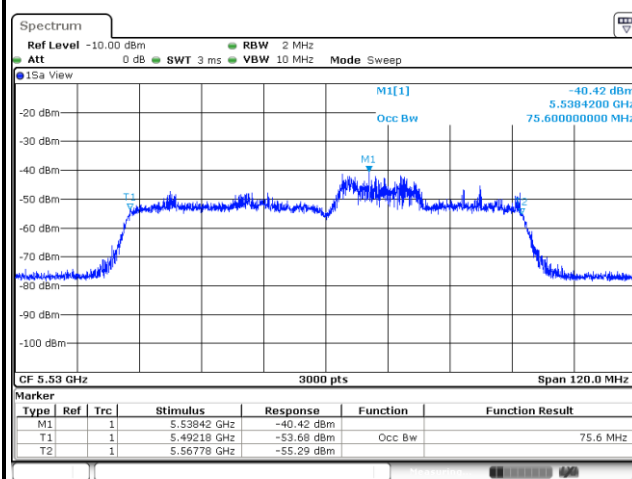
#### VHT20



#### VHT40



#### VHT80



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### 3.2.3 Test Result of UNII Detection Bandwidth

#### Channel Bandwidth 20MHz

UNII Detection Bandwidth Result													
Radar Type		0											
Channel Bandwidth (MHz)		20											
Test Frequency(MHz)		5500											
Radar Freq. (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)	Detection Bandwidth(MHz)	
	1	2	3	4	5	6	7	8	9	10			
5490(F <sub>L</sub> )	1	1	1	1	1	1	1	1	1	1	1	100	20*
5491	1	1	1	1	1	1	1	1	1	1	1	100	
5492	1	1	1	1	1	1	1	1	1	1	1	100	
5493	1	1	1	1	1	1	1	1	1	1	1	100	
5494	1	1	1	1	1	1	1	1	1	1	1	100	
5495	1	1	1	1	1	1	1	1	1	1	1	100	
5496	1	1	1	1	1	1	1	1	1	1	1	100	
5497	1	1	1	1	1	1	1	1	1	1	1	100	
5498	1	1	1	1	1	1	1	1	1	1	1	100	
5499	1	1	1	1	1	1	1	1	1	1	1	100	
5500	1	1	1	1	1	1	1	1	1	1	1	100	
5501	1	1	1	1	1	1	1	1	1	1	1	100	
5502	1	1	1	1	1	1	1	1	1	1	1	100	
5503	1	1	1	1	1	1	1	1	1	1	1	100	
5504	1	1	1	1	1	1	1	1	1	1	1	100	
5505	1	1	1	1	1	1	1	1	1	1	1	100	
5506	1	1	1	1	1	1	1	1	1	1	1	100	
5507	1	1	1	1	1	1	1	1	1	1	1	100	
5508	1	1	1	1	1	1	1	1	1	1	1	100	
5509	1	1	1	1	1	1	1	1	1	1	1	100	
5510(F <sub>H</sub> )	1	1	1	1	1	1	1	1	1	1	1	100	
Limit (MHz)											18		
Result											Complied		

\*Detection bandwidth = U-NII Detection Bandwidth = F<sub>H</sub> – F<sub>L</sub>

**Channel Bandwidth 40MHz**

UNII Detection Bandwidth Result													
Radar Type		0											
Channel Bandwidth (MHz)		40											
Test Frequency(MHz)		5510											
Radar Freq. (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	
	1	2	3	4	5	6	7	8	9	10			
5490	0	0	0	0	0	0	0	0	0	0	0	0	38*
<b>5491(F<sub>L</sub>)</b>	1	1	1	1	1	1	1	1	1	1	1	100	
5492~5502	1	1	1	1	1	1	1	1	1	1	1	100	
5503	1	1	1	1	1	1	1	1	1	1	1	100	
5504	1	1	1	1	1	1	1	1	1	1	1	100	
5505	1	1	1	1	1	1	1	1	1	1	1	100	
5506	1	1	1	1	1	1	1	1	1	1	1	100	
5507	1	1	1	1	1	1	1	1	1	1	1	100	
5508	1	1	1	1	1	1	1	1	1	1	1	100	
5509	1	1	1	1	1	1	1	1	1	1	1	100	
5510	1	1	1	1	1	1	1	1	1	1	1	100	
5511	1	1	1	1	1	1	1	1	1	1	1	100	
5512	1	1	1	1	1	1	1	1	1	1	1	100	
5513	1	1	1	1	1	1	1	1	1	1	1	100	
5514	1	1	1	1	1	1	1	1	1	1	1	100	
5515	1	1	1	1	1	1	1	1	1	1	1	100	
5516	1	1	1	1	1	1	1	1	1	1	1	100	
5517	1	1	1	1	1	1	1	1	1	1	1	100	
5518~5528	1	1	1	1	1	1	1	1	1	1	1	100	
<b>5529 (F<sub>H</sub>)</b>	1	1	1	1	1	1	1	1	1	1	1	100	
5530	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Limit (MHz)</b>												<b>37</b>	
<b>Result</b>												<b>Complied</b>	

\*Detection bandwidth = U-NII Detection Bandwidth = F<sub>H</sub> – F<sub>L</sub>

**Channel Bandwidth 80MHz**

UNII Detection Bandwidth Result													
Radar Type		0											
Channel Bandwidth (MHz)		80											
Test Frequency(MHz)		5530											
Radar Freq. (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	
	1	2	3	4	5	6	7	8	9	10			
5490(F <sub>L</sub> )	1	1	1	1	1	1	1	1	1	1	1	100	80*
5491	1	1	1	1	1	1	1	1	1	1	1	100	
5492	1	1	1	1	1	1	1	1	1	1	1	100	
5493~5523	1	1	1	1	1	1	1	1	1	1	1	100	
5524	1	1	1	1	1	1	1	1	1	1	1	100	
5525	1	1	1	1	1	1	1	1	1	1	1	100	
5526	1	1	1	1	1	1	1	1	1	1	1	100	
5527	1	1	1	1	1	1	1	1	1	1	1	100	
5528	1	1	1	1	1	1	1	1	1	1	1	100	
5529	1	1	1	1	1	1	1	1	1	1	1	100	
5530	1	1	1	1	1	1	1	1	1	1	1	100	
5531	1	1	1	1	1	1	1	1	1	1	1	100	
5532	1	1	1	1	1	1	1	1	1	1	1	100	
5533	1	1	1	1	1	1	1	1	1	1	1	100	
5534	1	1	1	1	1	1	1	1	1	1	1	100	
5535	1	1	1	1	1	1	1	1	1	1	1	100	
5536	1	1	1	1	1	1	1	1	1	1	1	100	
5537~5567	1	1	1	1	1	1	1	1	1	1	1	100	
5568	1	1	1	1	1	1	1	1	1	1	1	100	
5569	1	1	1	1	1	1	1	1	1	1	1	100	
5570(F <sub>H</sub> )	1	1	1	1	1	1	1	1	1	1	1	100	
Limit (MHz)											76		
Result											Complied		

\*Detection bandwidth = U-NII Detection Bandwidth = F<sub>H</sub> – F<sub>L</sub>

### 3.3 Channel Availability Check (CAC)

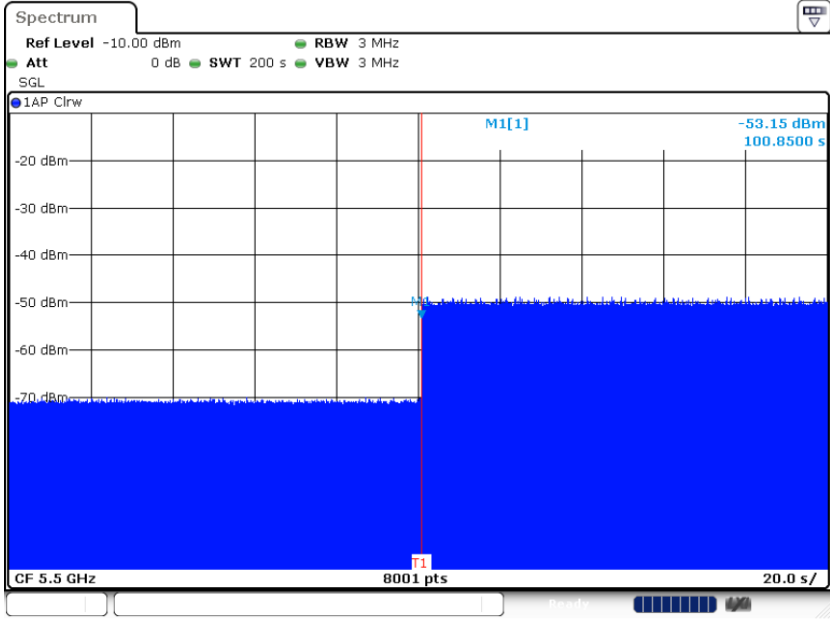
#### 3.3.1 Channel Availability Check Limit

<b>Channel Availability Check Limit</b>	
<input checked="" type="checkbox"/>	The EUT shall perform a Channel Availability Check to ensure that there is no radar operating on the channel. After power-up sequence, receive at least 1 minute (60 sec) on the intended operating frequency.

#### 3.3.2 Test Procedures

<b>Test Method</b>	
<input checked="" type="checkbox"/>	Refer as FCC KDB 905642 D02, clause 7.8.2.1 for Initial Channel Availability Check Time. The EUT does not emit beacon, control, or data signals on the test Channel until the power-up sequence has been completed and the UNII device checks for Radar Waveforms for one minute on the test Channel. This test does not use any Radar Waveforms.
<input checked="" type="checkbox"/>	Refer as FCC KDB 905642 D02 clause 7.8.2.2 for Radar Burst at the Beginning of the Channel Availability Check Time. To verify successful radar detection on the selected Channel during a period equal to the Beginning of the Channel Availability Check Time.
<input checked="" type="checkbox"/>	Refer as FCC KDB 905642 D02 clause 7.8.2.3 for Radar Burst at the End of the Channel Availability Check Time. To verify successful radar detection on the selected Channel during a period equal to the End of the Channel Availability Check Time.

### 3.3.3 Test Result of Channel Availability Check Time

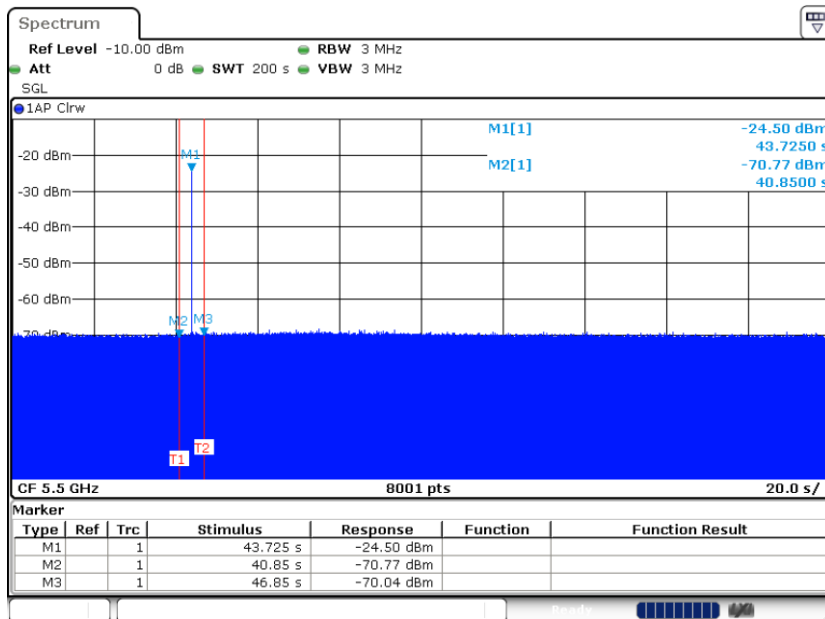
Initial Channel Availability Check Time Result					
Modulation Mode	Freq. (MHz)	Radar Test Signal	Power-on Cycle. (sec)	CAC Time (sec)	Observation Time (min)
VHT20	5500 (F3)	N/A	40.85	60	3.3
Result 200S Timing Plot			Complied		
					
Note 1: This test does not use any Radar Waveforms.					



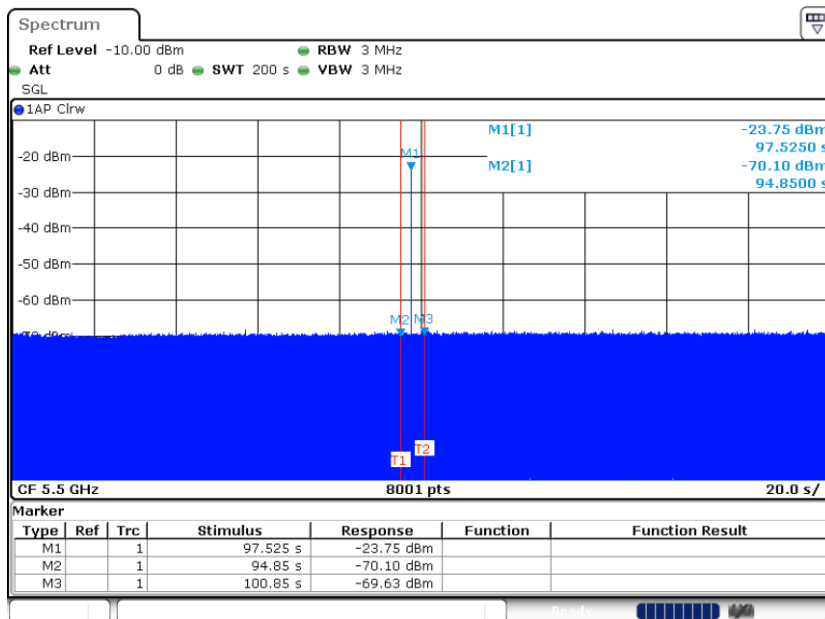
### Channel Availability Check Time Result

Modulation Mode	Freq. (MHz)	Radar Type Signal	Beginning CAC of Timing of radar burst (sec)	End CAC of Timing of radar burst (sec)	DFS Triggered (Yes/No)
VHT20	5500	0	6	54	Yes
<b>Result</b>			<b>Complied</b>		

### Beginning CAC of 200s Timing Plot



### End CAC of 200s Timing Plot



## 3.4 In-Service Monitoring

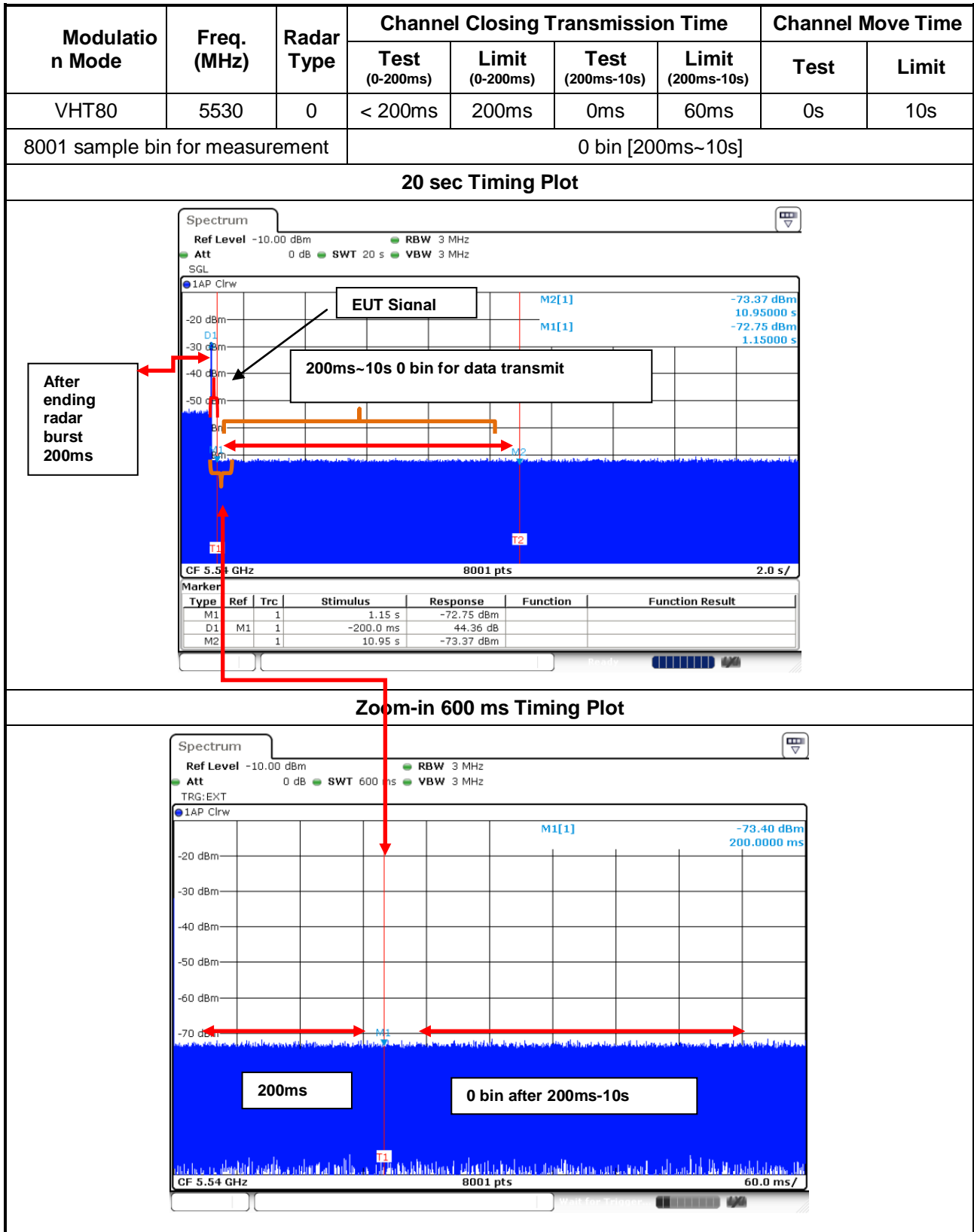
### 3.4.1 In-service Monitoring Limit

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

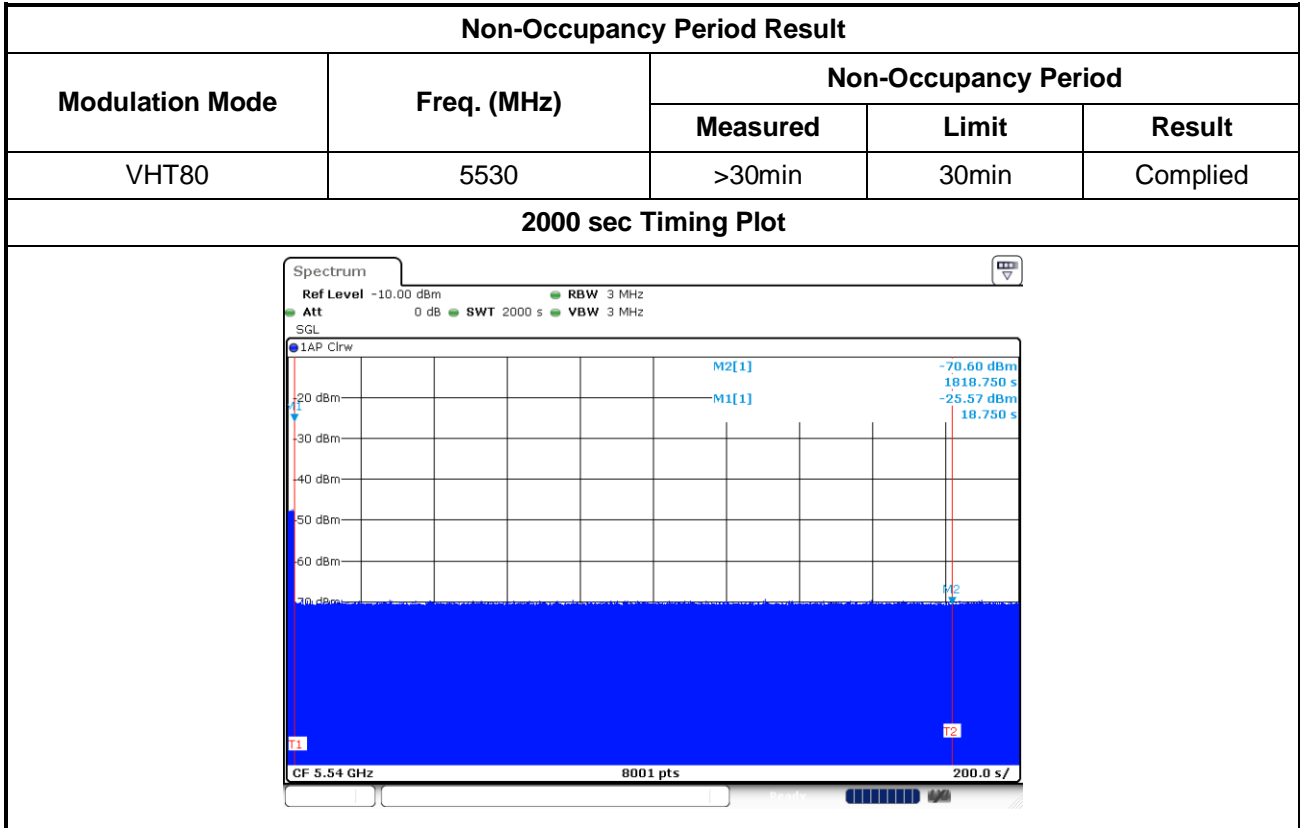
### 3.4.2 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	Refer as FCC KDB 905642 D02, clause 7.8.3 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.
<input checked="" type="checkbox"/>	Refer as FCC KDB 905642 D02, clause 7.8.3 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.

### 3.4.3 Test Result of Channel Closing Transmission and Channel Move Time



### 3.4.4 Test Result of Non-Occupancy



### 3.5 Statistical Performance Check

#### 3.5.1 Statistical Performance Check Limit

Radar Type	Minimum Percentage of Successful Detection (Pd)	Minimum Trials
1	60%	30
2	60%	30
3	60%	30
4	60%	30
Aggregate (Radar Types 1-4)	80%	120
5	80%	30
6	70%	30

The percentage of successful detection is calculated by:

$$\frac{\text{TotalWaveformDetections}}{\text{TotalWaveformTrials}} \times 100 = \text{Probability of Detection Radar Waveform}$$

In addition an aggregate minimum percentage of successful detection across all Short Pulse Radar Types 1-4 is required and is calculated as follows:

$$\frac{Pd1 + Pd2 + Pd3 + Pd4}{4}$$

#### 3.5.2 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as FCC KDB 905642 D02, clause 7.8.4 for Statistical Performance Check test. Stream the channel loading test file from the Master Device to the Client Device on the test Channel for the entire period of the test. Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Short Pulse Radar Types 1-4 and 6 to ensure detection occurs. Then Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 22 seconds for Long Pulse Radar Type 5 to ensure detection occurs. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.

### 3.5.3 Test Result of Statistical Performance Check

Statistical Performance Check Result– VHT20 / 5500MHz					
Radar Signal (#)	Test Trail #	Detect Trail #	Pd (%)	Limit Pd (%)	Result
1	30	30	100	60	Complied
2	30	26	86.67	60	Complied
3	30	30	100	60	Complied
4	30	26	86.67	60	Complied
<b>Aggregate 1 - 4</b>	120	112	93.33	80	Complied
5	30	28	96.67	80	Complied
6	30	29	100	70	Complied

Statistical Performance Check Result– VHT40 / 5510 MHz					
Radar Signal (#)	Test Trail #	Detect Trail #	Pd (%)	Limit Pd (%)	Result
1	30	30	100	60	Complied
2	30	29	96.67	60	Complied
3	30	27	90	60	Complied
4	30	24	80	60	Complied
<b>Aggregate 1 - 4</b>	120	110	91.67	80	Complied
5	30	30	100	80	Complied
6	30	30	100	70	Complied

Statistical Performance Check Result– VHT80 / 5530 MHz					
Radar Signal (#)	Test Trail #	Detect Trail #	Pd (%)	Limit Pd (%)	Result
1	30	30	100	60	Complied
2	30	25	83.33	60	Complied
3	30	29	96.67	60	Complied
4	30	25	83.33	60	Complied
<b>Aggregate 1 - 4</b>	120	109	90.83	80	Complied
5	30	30	100	80	Complied
6	30	30	100	70	Complied

### 3.5.4 Detection Data Sheet for Radar Types 1 (VHT20)

Radar Type	1				
Trail #	Test Frequency (MHz)	Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)	VHT20 <sub>1</sub>
1	5491(FL)	Test A 1	1930.5	518	1
2	5504	Test A 2	1858.7	538	1
3	5502	Test A 3	1792.1	558	1
4	5505	Test A 4	1730.1	578	1
5	5495	Test A 5	1672.2	598	1
6	5498	Test A 6	1618.1	618	1
7	5501	Test A 7	1567.4	638	1
8	5496	Test A 8	1519.8	658	1
9	5506	Test A 9	1474.9	678	1
10	5509(FH)	Test A 10	1432.7	698	1
11	5499	Test A 11	1392.8	718	1
12	5507	Test A 12	1355	738	1
13	5498	Test A 13	1319.3	758	1
14	5509(FH)	Test A 14	1285.3	778	1
15	5495	Test A 23	326.2	3066	1
16	5508	Test B	1692	591	1
17	5509	Test B	328.1	3048	1
18	5506	Test B	373.4	2678	1
19	5501	Test B	574.4	1741	1
20	5497	Test B	1216.5	822	1
21	5494	Test B	801.3	1248	1
22	5500	Test B	488.5	2047	1
23	5508	Test B	956	1046	1
24	5496	Test B	517.6	1932	1
25	5494	Test B	1422.5	703	1
26	5491(FL)	Test B	542	1845	1
27	5501	Test B	741.3	1349	1
28	5507	Test B	881.8	1134	1
29	5504	Test B	427.4	2340	1
30	5507	Test B	628.9	1590	1
Detection Percentage (%)					100
Note 1: 1=Detection ;0=No Detection					

### 3.5.5 Detection Data Sheet for Radar Types 1 (VHT40)

Radar Type	1				
Trail #	Test Frequency (MHz)	Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)	VHT40 <sub>1</sub>
1	5521	Test A 1	1930.5	518	1
2	5498	Test A 2	1858.7	538	1
3	5504	Test A 3	1792.1	558	1
4	5491(FL)	Test A 4	1730.1	578	1
5	5492	Test A 5	1672.2	598	1
6	5523	Test A 6	1618.1	618	1
7	5518	Test A 7	1567.4	638	1
8	5529(FH)	Test A 8	1519.8	658	1
9	5492	Test A 9	1474.9	678	1
10	5509	Test A 10	1432.7	698	1
11	5502	Test A 11	1392.8	718	1
12	5506	Test A 12	1355	738	1
13	5508	Test A 13	1319.3	758	1
14	5499	Test A 14	1285.3	778	1
15	5505	Test A 23	326.2	3066	1
16	5519	Test B	1692	591	1
17	5510	Test B	328.1	3048	1
18	5529(FH)	Test B	373.4	2678	1
19	5528	Test B	574.4	1741	1
20	5525	Test B	1216.5	822	1
21	5513	Test B	801.3	1248	1
22	5506	Test B	488.5	2047	1
23	5520	Test B	956	1046	1
24	5529	Test B	517.6	1932	1
25	5512	Test B	1422.5	703	1
26	5507	Test B	542	1845	1
27	5491(FL)	Test B	741.3	1349	1
28	5502	Test B	881.8	1134	1
29	5509	Test B	427.4	2340	1
30	5504	Test B	628.9	1590	1
Detection Percentage (%)					100
Note 1: 1=Detection ;0=No Detection					



### 3.5.6 Detection Data Sheet for Radar Types 1 (VHT80)

Radar Type	1				
Trail #	Test Frequency (MHz)	Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)	VHT80 <sub>1</sub>
1	5518	Test A 1	1930.5	518	1
2	5565	Test A 2	1858.7	538	1
3	5569(FH)	Test A 3	1792.1	558	1
4	5496	Test A 4	1730.1	578	1
5	5492	Test A 5	1672.2	598	1
6	5516	Test A 6	1618.1	618	1
7	5546	Test A 7	1567.4	638	1
8	5557	Test A 8	1519.8	658	1
9	5507	Test A 9	1474.9	678	1
10	5495	Test A 10	1432.7	698	1
11	5491(FL)	Test A 11	1392.8	718	1
12	5548	Test A 12	1355	738	1
13	5493	Test A 13	1319.3	758	1
14	5518	Test A 14	1285.3	778	1
15	5496	Test A 23	326.2	3066	1
16	5493	Test B	1692	591	1
17	5557	Test B	328.1	3048	1
18	5534	Test B	373.4	2678	1
19	5491(FL)	Test B	574.4	1741	1
20	5567	Test B	1216.5	822	1
21	5525	Test B	801.3	1248	1
22	5566	Test B	488.5	2047	1
23	5569(FH)	Test B	956	1046	1
24	5548	Test B	517.6	1932	1
25	5505	Test B	1422.5	703	1
26	5539	Test B	542	1845	1
27	5547	Test B	741.3	1349	1
28	5511	Test B	881.8	1134	1
29	5499	Test B	427.4	2340	1
30	5543	Test B	628.9	1590	1
Detection Percentage (%)					100
Note 1: 1=Detection ;0=No Detection					

### 3.5.7 Data Sheet for Radar Type 2 (VHT20)

Radar Type		2			
Trail #	Test Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	VHT20 <sub>1</sub>
1	5497	3.6	170	28	1
2	5503	4.7	179	27	1
3	5507	4.3	213	29	1
4	5508	2.1	200	27	1
5	5499	4.5	189	27	0
6	5506	2.3	230	28	1
7	5492	2.1	155	23	0
8	5496	4.2	168	26	1
9	5498	1.9	158	24	1
10	5497	2	221	23	1
11	5498	4	228	28	1
12	5495	2.1	189	27	1
13	5503	2	228	27	1
14	5498	4.9	210	27	1
15	5508	3.8	180	27	1
16	5509(FH)	1.9	190	25	1
17	5495	2.9	223	26	1
18	5501	1.7	169	26	0
19	5509	1.7	207	25	0
20	5505	1.7	175	28	1
21	5500	1.1	152	29	1
22	5491(FL)	1.6	168	27	1
23	5493	1.8	177	25	1
24	5504	2.8	198	27	1
25	5509(FH)	4	151	27	1
26	5492	3	155	28	1
27	5491(FL)	1.4	188	24	1
28	5505	2	178	25	1
29	5504	3.3	173	25	1
30	5497	2.8	208	28	1
Detection Percentage (%)					86.67
Note 1: 1=Detection ;0=No Detection					

### 3.5.8 Data Sheet for Radar Type 2 (VHT40)

Radar Type	2				
Trail #	Test Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	VHT40 <sub>1</sub>
1	5525	3.6	170	28	1
2	5508	4.7	179	27	1
3	5504	4.3	213	29	1
4	5494	2.1	200	27	1
5	5519	4.5	189	27	1
6	5529(FH)	2.3	230	28	1
7	5525	2.1	155	23	1
8	5501	4.2	168	26	1
9	5491(FL)	1.9	158	24	1
10	5498	2	221	23	1
11	5496	4	228	28	1
12	5526	2.1	189	27	1
13	5513	2	228	27	0
14	5529(FH)	4.9	210	27	1
15	5517	3.8	180	27	1
16	5493	1.9	190	25	1
17	5494	2.9	223	26	1
18	5526	1.7	169	26	1
19	5501	1.7	207	25	1
20	5492	1.7	175	28	1
21	5500	1.1	152	29	1
22	5491(FL)	1.6	168	27	1
23	5524	1.8	177	25	1
24	5499	2.8	198	27	1
25	5528	4	151	27	1
26	5500	3	155	28	1
27	5521	1.4	188	24	1
28	5496	2	178	25	1
29	5492	3.3	173	25	1
30	5496	2.8	208	28	1
Detection Percentage (%)					96.67
Note 1: 1=Detection ;0=No Detection					

### 3.5.9 Data Sheet for Radar Type 2 (VHT80)

Radar Type		2			
Trail #	Test Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	VHT80 <sub>v1</sub>
1	5528	3.6	170	28	1
2	5564	4.7	179	27	1
3	5512	4.3	213	29	1
4	5530	2.1	200	27	1
5	5561	4.5	189	27	1
6	5497	2.3	230	28	1
7	5569(FH)	2.1	155	23	0
8	5537	4.2	168	26	1
9	5512	1.9	158	24	0
10	5519	2	221	23	1
11	5491(FL)	4	228	28	1
12	5503	2.1	189	27	1
13	5506	2	228	27	1
14	5569(FH)	4.9	210	27	0
15	5529	3.8	180	27	1
16	5509	1.9	190	25	1
17	5523	2.9	223	26	1
18	5551	1.7	169	26	1
19	5537	1.7	207	25	1
20	5536	1.7	175	28	0
21	5508	1.1	152	29	1
22	5519	1.6	168	27	1
23	5495	1.8	177	25	0
24	5556	2.8	198	27	1
25	5491(FL)	4	151	27	1
26	5539	3	155	28	1
27	5544	1.4	188	24	1
28	5533	2	178	25	1
29	5536	3.3	173	25	1
30	5515	2.8	208	28	1
Detection Percentage (%)					83.33
Note 1: 1=Detection ;0=No Detection					

### 3.5.10 Data Sheet for Radar Type 3 (VHT20)

Radar Type	3				
Trail #	Test Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	VHT20 <sub>1</sub>
1	5492	6.4	390	17	1
2	5507	9.1	410	17	1
3	5503	9.4	490	17	1
4	5493	7.6	395	17	1
5	5502	7.9	201	17	1
6	5499	9.1	227	16	1
7	5509(FH)	7.8	477	16	1
8	5497	7.2	497	16	1
9	5491(FL)	7.9	491	16	1
10	5495	8.5	304	16	1
11	5498	10	443	17	1
12	5496	8.1	264	18	1
13	5500	7.7	461	17	1
14	5508	6.1	242	17	1
15	5501	7.8	331	18	1
16	5509(FH)	7.8	481	17	1
17	5491(FL)	6.6	325	18	1
18	5495	6.6	239	17	1
19	5499	6	258	17	1
20	5493	6.8	464	18	1
21	5498	9.1	288	17	1
22	5495	6.1	375	17	1
23	5509	8.8	377	17	1
24	5502	9.5	293	17	1
25	5507	9.1	437	18	1
26	5505	6.7	290	17	1
27	5505	7.2	481	16	1
28	5491	9.4	315	18	1
29	5505	6.9	356	17	1
30	5506	9.6	385	16	1
Detection Percentage (%)					100
Note 1: 1=Detection ;0=No Detection					

### 3.5.11 Data Sheet for Radar Type 3 (VHT40)

Radar Type		3			
Trail #	Test Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	VHT40 <sub>v1</sub>
1	5523	6.4	390	17	1
2	5491(FL)	9.1	410	17	1
3	5525	9.4	490	17	1
4	5509	7.6	395	17	1
5	5522	7.9	201	17	0
6	5528	9.1	227	16	1
7	5520	7.8	477	16	1
8	5498	7.2	497	16	1
9	5515	7.9	491	16	0
10	5523	8.5	304	16	1
11	5506	10	443	17	1
12	5517	8.1	264	18	0
13	5524	7.7	461	17	1
14	5529(FH)	6.1	242	17	1
15	5501	7.8	331	18	1
16	5521	7.8	481	17	1
17	5514	6.6	325	18	1
18	5525	6.6	239	17	1
19	5510	6	258	17	1
20	5503	6.8	464	18	1
21	5522	9.1	288	17	1
22	5529(FH)	6.1	375	17	1
23	5521	8.8	377	17	1
24	5524	9.5	293	17	1
25	5517	9.1	437	18	1
26	5509	6.7	290	17	1
27	5501	7.2	481	16	1
28	5528	9.4	315	18	1
29	5491(FL)	6.9	356	17	1
30	5493	9.6	385	16	1
Detection Percentage (%)					90
Note 1: 1=Detection ;0=No Detection					

### 3.5.12 Data Sheet for Radar Type 3 (VHT80)

Radar Type		3			
Trail #	Test Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	VHT80 <sub>v1</sub>
1	5567	6.4	390	17	1
2	5568	9.1	410	17	1
3	5491(FL)	9.4	490	17	1
4	5563	7.6	395	17	1
5	5544	7.9	201	17	1
6	5521	9.1	227	16	1
7	5555	7.8	477	16	1
8	5546	7.2	497	16	1
9	5544	7.9	491	16	1
10	5525	8.5	304	16	1
11	5543	10	443	17	1
12	5558	8.1	264	18	1
13	5569(FH)	7.7	461	17	0
14	5533	6.1	242	17	1
15	5558	7.8	331	18	1
16	5566	7.8	481	17	1
17	5557	6.6	325	18	1
18	5530	6.6	239	17	1
19	5551	6	258	17	1
20	5567	6.8	464	18	1
21	5528	9.1	288	17	1
22	5491(FL)	6.1	375	17	1
23	5533	8.8	377	17	1
24	5532	9.5	293	17	1
25	5535	9.1	437	18	1
26	5500	6.7	290	17	1
27	5538	7.2	481	16	1
28	5569(FH)	9.4	315	18	1
29	5499	6.9	356	17	1
30	5545	9.6	385	16	1
Detection Percentage (%)					96.67
Note 1: 1=Detection ;0=No Detection					

### 3.5.13 Data Sheet for Radar Type 4 (VHT20)

Radar Type	4				
Trail #	Test Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	VHT20 <sub>1</sub>
1	5495	18.2	424	13	1
2	5491(FL)	17	283	15	1
3	5494	11.4	386	12	1
4	5508	14.2	471	13	1
5	5501	13.9	399	15	1
6	5502	18.7	252	14	1
7	5506	11.4	370	12	1
8	5508	17.5	283	15	1
9	5497	14.1	391	16	0
10	5509(FH)	16.4	229	15	0
11	5491(FL)	15.8	327	14	1
12	5493	18.8	317	15	1
13	5499	17.7	433	13	1
14	5501	16.3	312	15	1
15	5494	15	486	16	1
16	5505	16.9	393	14	1
17	5504	19.3	354	12	1
18	5495	15.2	353	13	0
19	5498	14	478	13	1
20	5492	16	408	16	1
21	5504	16.4	317	12	0
22	5509(FH)	19.2	464	14	1
23	5498	16.2	301	12	1
24	5500	11.1	226	14	1
25	5495	14	315	16	1
26	5505	15.7	293	12	1
27	5493	19.3	398	14	1
28	5497	15.7	324	15	1
29	5507	15.4	394	13	1
30	5508	15.5	376	13	1
Detection Percentage (%)					86.67
Note 1: 1=Detection ;0=No Detection					



### 3.5.14 Data Sheet for Radar Type 4 (VHT40)

Radar Type	4				
Trail #	Test Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	VHT40 <sub>v1</sub>
1	5507	18.2	424	13	0
2	5527	17	283	15	1
3	5491(FL)	11.4	386	12	1
4	5493	14.2	471	13	1
5	5495	13.9	399	15	0
6	5505	18.7	252	14	1
7	5508	11.4	370	12	1
8	5517	17.5	283	15	1
9	5529(FH)	14.1	391	16	1
10	5511	16.4	229	15	0
11	5508	15.8	327	14	0
12	5513	18.8	317	15	1
13	5493	17.7	433	13	0
14	5506	16.3	312	15	1
15	5505	15	486	16	1
16	5514	16.9	393	14	1
17	5495	19.3	354	12	1
18	5504	15.2	353	13	1
19	5506	14	478	13	1
20	5491(FL)	16	408	16	1
21	5517	16.4	317	12	1
22	5498	19.2	464	14	0
23	5529(FH)	16.2	301	12	1
24	5526	11.1	226	14	1
25	5525	14	315	16	1
26	5507	15.7	293	12	1
27	5520	19.3	398	14	1
28	5522	15.7	324	15	1
29	5514	15.4	394	13	1
30	5516	15.5	376	13	1
Detection Percentage (%)					80
Note 1: 1=Detection ;0=No Detection					

### 3.5.15 Data Sheet for Radar Type 4 (VHT80)

Radar Type	4				
Trail #	Test Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	VHT80 <sub>v1</sub>
1	5508	18.2	424	13	1
2	5563	17	283	15	1
3	5533	11.4	386	12	1
4	5569(FH)	14.2	471	13	1
5	5562	13.9	399	15	1
6	5512	18.7	252	14	1
7	5498	11.4	370	12	1
8	5536	17.5	283	15	1
9	5520	14.1	391	16	1
10	5512	16.4	229	15	0
11	5565	15.8	327	14	1
12	5567	18.8	317	15	1
13	5569(FH)	17.7	433	13	1
14	5525	16.3	312	15	1
15	5544	15	486	16	1
16	5550	16.9	393	14	1
17	5491(FL)	19.3	354	12	1
18	5504	15.2	353	13	1
19	5560	14	478	13	0
20	5519	16	408	16	1
21	5541	16.4	317	12	1
22	5523	19.2	464	14	0
23	5513	16.2	301	12	1
24	5491(FL)	11.1	226	14	1
25	5558	14	315	16	0
26	5520	15.7	293	12	1
27	5548	19.3	398	14	1
28	5533	15.7	324	15	1
29	5508	15.4	394	13	1
30	5530	15.5	376	13	0
Detection Percentage (%)					83.33
Note 1: 1=Detection ;0=No Detection					

### 3.5.16 Detection Data Sheet for Radar Types 5

Radar Type 5						
Trail #	Test Frequency (MHz)	VHT20 <sub>-1</sub>	Test Frequency (MHz)	VHT40*1	Test Frequency (MHz)	VHT80 <sub>-1</sub>
1	5503	1	5518	1	5553	1
2	5500	1	5504	1	5511	1
3	5507(FH)	1	5513	1	5530	1
4	5493(FL)	1	5518	1	5561(FH)	1
5	5503	1	5524	1	5547	1
6	5499	1	5505	1	5516	1
7	5500	1	5525(FH)	1	5559	1
8	5495	1	5507	1	5538	1
9	5499	1	5503	1	5557	1
10	5496	1	5519	1	5530	1
11	5503	1	5509	1	5535	1
12	5504	1	5513	1	5547	1
13	5500	1	5514	1	5499(FL)	1
14	5507(FH)	1	5500	1	5560	1
15	5506	1	5501	1	5512	1
16	5499	1	5523	1	5525	1
17	5493(FL)	1	5495(FL)	1	5532	1
18	5504	1	5498	1	5530	1
19	5496	1	5525(FH)	1	5532	1
20	5494	1	5502	1	5531	1
21	5502	1	5497	1	5519	1
22	5500	1	5502	1	5525	1
23	5498	1	5496	1	5528	1
24	5504	1	5519	1	5499(FL)	1
25	5505	1	5516	1	5506	1
26	5494	0	5517	1	5516	1
27	5496	1	5518	1	5509	1
28	5501	1	5500	1	5561(FH)	1
29	5506	1	5495(FL)	1	5554	1
30	5497	1	5523	1	5551	1
Pd (%)	96.67		100		100	

Note 1: 1=Detection ;0=No Detection

The center frequency for each of the 30 trials of the Bin 5 radar shall be randomly selected within 80% of the Occupied Bandwidth..

### 3.5.17 Detection Data Sheet for Radar Types 6

Radar Type	6		
Trail #	VHT20 <sub>-1</sub>	VHT40*1	VHT80 <sub>-1</sub>
1	1	1	1
2	1	1	1
3	1	1	1
4	1	1	1
5	1	1	1
6	1	1	1
7	1	1	1
8	1	1	1
9	1	1	1
10	1	1	1
11	1	1	1
12	1	1	1
13	1	1	1
14	1	1	1
15	1	1	1
16	1	1	1
17	1	1	1
18	1	1	1
19	1	1	1
20	1	1	1
21	1	1	1
22	1	1	1
23	1	1	1
24	1	1	1
25	1	1	1
26	1	1	1
27	1	1	1
28	1	1	1
29	1	1	1
30	1	1	1
Pd (%)	100	100	100
Note 1: 1=Detection ;0=No Detection			

Note: A test frequency as described in annex A.

### 3.5.18 Parameter Data Sheet for Radar Type 5

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		1
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	1	62.3	8			346
2	2	51.2	15	1745		2705
3	3	93.6	5	957	1634	3674
4	3	68.2	12	1668	1573	4884
5	3	83.1	8	1188	1888	6876
6	1	56.7	18			7876
7	2	60.6	18	1874		10409
8	3	75.5	13	1263	1683	11878

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		2
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	1	99.6	13			217
2	2	54.8	15	1727		2315.333
3	3	91.1	15	1120	1826	3607.666
4	2	76.2	7	1638		4476.999
5	1	88.9	13			5592.332
6	1	83	9			7558.665
7	1	83.9	12			8319.998
8	2	55.9	15	1613		9778.331
9	1	96.1	13			11445.664

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		3
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	2	82	6	1246		1017
2	1	93.2	13			1960
3	2	61.3	13	1175		2727
4	1	52.8	8			4424
5	3	70.6	19	929	1076	4915
6	1	80.3	17			6325
7	1	83.2	15			7879
8	2	94	9	1805		9288
9	2	67	8	1486		10449
10	1	56.4	20			11613

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		4
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	3	90.5	8	1149	1612	35
2	3	54.5	8	1094	1525	2104.909
3	1	57.1	18			3008.818
4	2	98.6	20	1292		3355.727
5	2	62.9	12	1433		5039.636
6	1	71.1	15			6162.545
7	1	96.7	5			7256.454
8	1	64.3	5			8120.363
9	3	61.2	8	1075	1524	9171.272
10	2	79.2	13	1877		10615.181
11	2	79.3	20	1313		11197.09

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #	5	
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	1	89.5	13			20
2	3	71.8	11	1446	1549	1117
3	3	53.7	15	1100	1517	2485
4	2	99.3	11	1571		3334
5	3	56.8	6	1594	1280	4468
6	1	97.4	11			5213
7	2	67.6	13	1831		6014
8	3	77.1	8	1683	1337	7267
9	1	98.5	17			8544
10	3	58.3	13	1924	1829	9159
11	1	98.4	14			10380
12	1	79.3	11			11257

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #	6	
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	2	53.8	14	1631		768
2	1	90	17			1453.077
3	3	87.2	18	1115	1297	2003.154
4	2	82	11	1728		3661.231
5	3	69.8	7	1641	1779	3888.308
6	2	63.1	20	1836		4946.385
7	1	59.8	6			6033.462
8	3	78.5	19	941	1921	7007.539
9	1	85.7	6			7603.616
10	3	67.7	9	1834	1450	8841.693
11	2	84.5	15	1376		9512.77
12	2	99.3	13	1570		10639.847
13	2	80.2	8	1088		11143.924

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		7
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	3	80.8	10	1061	1124	389
2	2	81	9	1479		1091.143
3	2	87.6	17	1247		2291.286
4	2	94.7	18	1041		3143.429
5	2	78	18	1267		3741.572
6	1	95.5	14			4337.715
7	2	97.6	15	1215		5199.858
8	3	88	9	1349	1598	6171.001
9	2	69.7	17	1711		7626.144
10	2	96.5	17	1431		7882.287
11	2	96.9	6	1871		8695.43
12	3	66.4	10	1824	1468	10194.573
13	1	78.8	10			10822.716
14	3	87.6	6	1080	1159	11856.859



Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #	8	
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	2	71.8	14	1432		573
2	2	65.9	19	1762		1114
3	2	74.7	6	1754		1977
4	3	81.7	5	1133	974	2616
5	3	57.8	14	1176	1712	3329
6	1	80.6	6			4341
7	3	99.3	17	1268	1876	4965
8	1	79.8	12			6218
9	3	83	11	990	1738	6989
10	3	71.5	11	1473	1255	7206
11	1	77.4	11			8127
12	2	84.8	12	1390		9315
13	2	64.6	12	1653		9748
14	2	92.9	12	1881		10919
15	1	71.3	6			11501

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		9
Burst	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Start Time (msec)
1	2	55.4	9	1318		383
2	2	80.8	18	1710		1284
3	1	88.8	9			1995
4	2	78	12	1818		2342
5	1	78.5	12			3108
6	2	55	13	1219		3873
7	2	75.9	20	1004		4623
8	2	70.9	7	1820		5796
9	2	71.7	18	1559		6476
10	2	73.9	19	1232		6985
11	1	59.2	20			7924
12	1	55.7	9			8641
13	3	60.9	12	1144	1370	9198
14	2	60.8	14	990		9766
15	3	60.6	19	1526	1326	11195
16	2	89	5	1029		11381

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		10
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	2	72.1	14	1119		488
2	3	81.4	13	1142	961	1156.882
3	3	92.9	18	991	1147	1976.764
4	3	81.3	18	1793	1369	2402.646
5	3	76.4	20	1005	1793	2902.528
6	1	61.6	18			4032.41
7	1	66.6	19			4416.292
8	1	53.7	12			5357.174
9	2	58	8	1477		5754.056
10	2	64	18	1791		6493.938
11	2	80.3	12	1304		7574.82
12	3	77.3	5	1039	1668	8136.702
13	2	97.6	11	1593		8633.584
14	1	73	6			9323.466
15	3	65.1	8	1097	1927	9984.348
16	2	59.5	13	1569		10770.23
17	1	88.2	19			11947.112

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		11
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	2	56.1	12	1219		273
2	1	83.3	7			964.666
3	3	79.6	17	1218	1897	1492.333
4	2	95.8	7	1672		2480
5	2	79.6	8	920		3053.667
6	2	88.9	11	1779		3338.334
7	2	81.4	8	1645		4201.001
8	2	92	6	1454		4746.668
9	3	96	13	1518	1121	5525.335
10	2	65.6	11	1798		6349.002
11	2	98.7	5	1360		7082.669
12	2	52.9	15	1140		7985.336
13	2	76.5	8	1032		8092.003
14	3	73.8	18	1719	1383	9168.67
15	3	83.7	10	1270	1216	9676.337
16	2	89.6	10	1141		10108.004
17	2	67.2	20	1455		10938.671
18	3	55.7	14	1444	1475	11899.338

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		12
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	2	70.6	15	1040		575
2	2	72.9	13	1460		809.579
3	3	88.9	5	1250	1629	1454.158
4	3	60.3	20	1757	1822	2362.737
5	3	92.1	19	1845	1198	3002.316
6	1	73	5			3689.895
7	1	50.4	15			3858.474
8	1	66.4	10			4754.053
9	1	79.1	18			5489.632
10	1	71.6	20			6108.211
11	2	95.6	13	1229		6813.79
12	1	74.4	9			7310.369
13	3	55.6	17	1263	1724	7701.948
14	2	78.3	13	1507		8247.527
15	3	54.1	13	1325	1249	9034.106
16	2	67.1	18	1584		9784.685
17	2	65.8	9	1195		10348.264
18	2	50.1	12	1755		10784.843
19	2	87.7	18	1359		11548.422

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		13
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	3	79.5	7	1808	1550	274
2	2	76.7	20	1632		1173
3	3	85.9	12	1305	1496	1218
4	3	86.6	14	968	1172	1933
5	2	74.9	14	1348		2448
6	3	82.2	20	1692	1310	3156
7	2	53.9	13	1342		3645
8	3	62.7	15	1839	1651	4276
9	2	86.2	6	1165		4891
10	1	63.1	11			5791
11	2	82.4	6	1416		6107
12	1	95.8	18			6848
13	2	75.7	9	993		7682
14	3	70.1	18	1563	1020	8154
15	3	85.8	13	1420	1084	8846
16	1	63.2	7			9265
17	1	75.1	11			9747
18	2	69.5	5	1802		10456
19	1	51.8	19			11222
20	2	62.3	5	1449		11704

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		14
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	3	74.9	5	1314	1466	1289
2	2	83.9	19	1442		2936
3	2	55.8	6	1147		3240
4	2	59.4	6	1490		5955
5	2	78.2	15	1665		7312
6	2	57.3	15	1357		7764
7	2	76.2	11	1651		9255
8	3	59	7	1460	1109	11910

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		15
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	3	77.7	19	1046	1568	17
2	2	98.2	20	1628		2210.333
3	2	95.3	8	1540		3732.666
4	2	78.8	15	1341		4821.999
5	2	52.8	20	988		6353.332
6	2	65.2	9	1480		7268.665
7	2	99.5	10	1867		8883.998
8	2	79.5	13	1148		9675.331
9	3	50.6	13	1030	1525	11987.664

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		16
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	2	97.5	11	1357		764
2	2	91.8	13	1896		1498
3	1	78.5	5			3517
4	1	60.1	11			4669
5	2	96.2	10	975		5957
6	2	56.6	18	1626		6701
7	1	77.1	20			7523
8	2	96.3	8	1682		8707
9	2	52.2	13	1017		9817
10	1	92.8	15			11116

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		17
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	2	57.3	8	1220		792
2	3	73.1	5	1717	1679	1935.909
3	2	54.1	14	967		2293.818
4	2	98.8	19	1137		3987.727
5	3	85.5	8	1068	960	4664.636
6	2	78.5	7	1387		6281.545
7	2	77.9	12	1869		7051.454
8	1	81.9	10			8185.363
9	1	50.4	9			9191.272
10	1	75.2	8			10608.181
11	2	92.7	7	1770		11876.09



Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		18
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	2	79.1	6	1042		793
2	3	55.7	9	1327	1744	1159
3	1	95	20			2734
4	1	88.4	5			3523
5	1	92.3	15			4546
6	1	93.6	6			5208
7	2	95.1	12	1044		6894
8	1	59.5	17			7666
9	2	98.7	17	1422		8640
10	2	65.1	5	1104		9320
11	1	60.2	5			10060
12	1	88.7	8			11823

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		19
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	1	53.9	10			226
2	2	82.6	13	992		1777.077
3	1	87.7	8			2149.154
4	3	69	12	1696	1606	3297.231
5	1	68.6	12			3912.308
6	3	76.5	13	1333	1468	5004.385
7	2	95.8	17	1380		5595.462
8	2	55.6	19	1147		6795.539
9	2	78.6	14	1268		7512.616
10	2	65.4	17	1231		9220.693
11	2	76.6	18	1883		9748.77
12	1	93.2	6			10749.847
13	2	50.2	13	1836		11137.924

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		20
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	1	60.9	13			142
2	2	81.7	15	1831		1379.143
3	2	78.5	5	1396		2504.286
4	2	98.2	6	1652		2574.429
5	1	64.1	12			3842.572
6	3	53	18	1862	1902	4442.715
7	2	62.3	15	1490		5390.858
8	2	87	11	1411		6576.001
9	2	78.4	8	1090		7594.144
10	2	87.2	7	967		8057.287
11	3	71	13	1662	1841	8676.43
12	2	77.2	5	1557		10029.573
13	1	94.4	15			10393.716
14	1	90.6	13			11648.859

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		21
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	3	76.5	8	1870	1326	385
2	2	95.3	13	1162		873
3	3	58.9	9	1586	1909	2342
4	2	73.1	13	1460		2730
5	2	73.1	12	1488		3225
6	2	75.1	5	1331		4418
7	3	98.5	11	936	1532	5014
8	3	72.5	13	1110	1903	5987
9	3	67.4	12	1567	1513	6480
10	2	76.1	12	1005		7477
11	2	94.3	17	1413		8314
12	2	72.8	12	1778		8866
13	2	90.9	14	1793		9747
14	3	94.8	11	1012	1742	10841
15	3	95	12	912	1641	11809

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		22
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	1	96.7	9			308
2	2	78.3	13	1045		777
3	1	56.5	12			1574
4	3	88.5	14	1119	1020	2879
5	2	62.4	9	1436		3548
6	2	78.2	5	1147		4091
7	3	76.8	14	1069	1575	4860
8	2	91.6	18	978		5852
9	2	93.7	5	1130		6623
10	2	97.4	8	1100		7006
11	3	90.1	6	1629	1375	7608
12	2	79.9	18	1809		8433
13	2	83	10	1370		9477
14	2	89.1	13	1239		10234
15	2	58.3	8	1321		10776
16	1	85.2	13			11272

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		23
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	3	60	10	1097	1748	56
2	3	66.3	13	1391	1430	1126.882
3	2	88.5	15	1040		1994.764
4	2	72.1	8	1526		2278.646
5	1	72.3	8			3273.528
6	2	67.3	7	1022		3577.41
7	2	56.1	12	1325		4896.292
8	1	83.5	11			5636.174
9	3	99.4	13	1490	938	6052.056
10	1	54.2	12			6478.938
11	3	92.7	17	1251	1631	7423.82
12	3	95.1	17	1741	1162	7821.702
13	2	84	9	1597		8637.584
14	1	68.5	18			9688.466
15	1	76.5	20			10067.348
16	3	86.6	11	1774	1875	11045.23
17	2	62.2	9	1563		11786.112

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		24
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	1	86.6	19			621
2	2	95.3	17	926		794.666
3	1	76.2	12			1584.333
4	3	71.4	19	1287	1404	2269
5	3	51.7	12	1564	1339	3299.667
6	2	77	5	1899		3948.334
7	1	87.5	12			4375.001
8	3	59	17	1327	1615	5276.668
9	2	78.3	15	1551		5881.335
10	2	89.7	5	1718		6456.002
11	2	92.1	7	1403		6678.669
12	2	97.3	14	1338		7929.336
13	3	80.3	20	1354	1563	8484.003
14	1	98.2	8			9094.67
15	3	94.4	13	1795	1829	9845.337
16	2	90.4	13	1105		10342.004
17	2	73.6	19	1787		10958.671
18	1	82.9	7			11951.338

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		25
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	1	90	18			173
2	1	65.3	19			876.579
3	2	82.6	10	1756		1390.158
4	2	93.9	18	1557		2181.737
5	2	50.5	13	1479		2808.316
6	1	68	7			3333.895
7	3	88.4	11	1244	1076	4357.474
8	3	66.8	11	1288	1909	4869.053
9	2	88	12	1450		5579.632
10	3	51.1	6	1797	1935	5879.211
11	2	93.8	13	1073		6499.79
12	1	83.5	10			7453.369
13	2	96.9	12	1047		7845.948
14	3	87.2	18	1521	1450	8453.527
15	2	60.1	8	1545		9133.106
16	3	98	10	1842	1402	10027.685
17	3	57	19	1665	1732	10248.264
18	1	74.3	14			10767.843
19	2	57.8	10	1576		11977.422

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		26
Burst	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Start Time (msec)
1	2	92.8	9	1222		531
2	2	52.4	8	1547		768
3	3	56.8	7	1158	1184	1393
4	1	91.2	7			2365
5	3	61.2	10	1558	1664	2787
6	3	62	7	1518	1656	3391
7	2	69	5	1531		3927
8	2	67.3	18	1064		4225
9	1	94.1	5			4878
10	2	76	17	1190		5622
11	2	81.9	12	1815		6096
12	2	57.9	8	1594		6877
13	3	68.3	19	1427	1540	7241
14	2	53.3	7	1713		7848
15	2	85.3	15	1136		8448
16	1	65.3	20			9057
17	3	79.8	20	923	1259	9648
18	2	56.9	20	1357		10683
19	2	93	9	1686		10873
20	2	82.8	10	944		11752



Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		27
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	3	50.9	11	1106	1077	1293
2	2	77.8	18	1836		2735
3	3	60.7	5	1069	1635	4092
4	2	77.2	13	1916		5843
5	2	91.6	13	1465		7466
6	2	56.8	17	1783		7876
7	1	59.5	20			9131
8	1	66.5	12			11524

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		28
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	2	72	9	1092		965
2	2	89.2	6	1550		2559.333
3	1	81.2	12			2943.666
4	2	80.6	15	1616		4457.999
5	2	62.8	10	1812		6081.332
6	1	71	8			7100.665
7	2	69.3	6	1027		9110.998
8	2	77.2	13	1076		9971.331
9	2	65.4	5	1582		10944.664

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		29
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	1	51.5	19			151
2	1	82.3	13			2271
3	3	78.3	8	1115	1740	3046
4	2	99	14	1101		4309
5	3	98.8	7	1819	945	5356
6	2	80.9	19	922		6567
7	2	64	12	953		7781
8	1	79	20			9198
9	1	68	8			9712
10	2	50.4	13	1587		10826

Statistical Performance Check Result						
Radar Test Signal (#)		5		Trail #		30
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Time (msec)
1	3	57.8	5	1324	1716	82
2	2	70.1	20	1733		1677.909
3	2	95.2	13	1188		2970.818
4	3	84.6	20	1042	1259	4293.727
5	3	96.5	7	1329	1596	4379.636
6	2	84.3	15	1606		6162.545
7	3	53.5	19	1783	1458	7283.454
8	3	74.9	5	1599	1891	8102.363
9	3	53.8	7	1494	1467	8979.272
10	2	60.5	14	1319		10282.181
11	1	73.3	10			11754.09

## 4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp, it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website <http://www.icertifi.com.tw>.

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