



# FCC DFS PARTIAL TEST REPORT

**Equipment** : Force 200 180  
**Brand Name** : Cambium Networks  
**Model No.** : Force 200 180  
**FCC ID** : Z8H89FT0015  
**Standard** : 47 CFR FCC Part 15.407  
**Frequency Range** : 5250 MHz – 5350 MHz  
5470 MHz – 5725 MHz  
**Applicant** : Cambium Networks Inc.  
3800 Golf Road, Suite 360 Rolling Meadows, IL 60008,  
USA  
**Operate Mode** : Master

The product sample received on Apr. 21, 2016 and completely tested on Apr. 27, 2016. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v01r02 and shown compliance with the applicable technical standards.

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

Sam Chen  
SPORTON INTERNATIONAL INC.



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### Summary of Test Result

Conformance Test Specifications				
Report Clause	Ref. Std. Clause	Description	Limit	Result
3.3	FCC KDB 905462 7.8.1	DFS: UNII Detection Bandwidth Measurement	100% of the 99% BW	Complied
3.4	FCC KDB 905462 7.8.4	DFS: Statistical Performance Check	Table 5 - 7 (KDB 905462)	Complied
3.1.4	FCC KDB 905462 8.1	User Access Restrictions	DFS controls	Complied





# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

Specification Items	Description
Product Type	2TX, 2RX
Radio Type	Intentional Transceiver
Power Type	From PoE
Modulation	OFDM
Channel Bandwidth	10/20 MHz operating channel bandwidth
Operating Mode	<input checked="" type="checkbox"/> Master
	<input type="checkbox"/> Client with radar detection
	<input type="checkbox"/> Client without radar detection
Communication Mode	<input checked="" type="checkbox"/> IP Based (Load Based) <input type="checkbox"/> Frame Based
Weather Band (5600~5650MHz)	<input type="checkbox"/> With 5600~5650MHz <input checked="" type="checkbox"/> Without 5600~5650MHz
Software / Firmware Version	2.6.1-RC10-a7cbb4e47a95

### 1.1.2 Antenna Information

	Ant.	Brand	P/N	Gain (dBi)
Set	1	Cambium	Force 200 180	2
	2	Cambium	Force 200 180	2

Note: The EUT has one set of antenna and there are two antennas for this set of antenna.



### 1.2 Accessories

N/A

### 1.3 Support Equipment

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	MOTOROLA	ML900	DoC
2	NB	MOTOROLA	ML910	DoC
3	Device	Cambium Networks	Force 200 180	N/A

### 1.4 Testing Applied Standards

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

- FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v01r02

### 1.5 Testing Location Information

Testing Location				
<input type="checkbox"/>	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-327-0973		
<input checked="" type="checkbox"/>	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085		
Test Condition		Test Site No.	Test Engineer	Test Environment
DFS Site		DF01-CB	Eric Fu / Wii Lin	30.2°C / 60%
				21-Apr-16 ~ 27-Apr-16



## 2 Test Configuration of EUT

### 2.1 Test Channel Frequencies Configuration

Test Channel Frequencies Configuration	
Modulation Mode	Test Channel Freq. (MHz)
OFDM (10MHz)	5300 MHz
OFDM (20MHz)	

### 2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	Dynamic Frequency Selection (DFS)
Test Condition	Radiated measurement 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. The DFS radar test signals have been aligned to the direction corresponding to the EUT's maximum antenna gain.
Modulation Mode	OFDM (10MHz), OFDM (20MHz)



### 3 Dynamic Frequency Selection (DFS) Test Result

#### 3.1 General DFS Information

##### 3.1.1 DFS Parameters

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.

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 662911D01.





**3.1.2 Applicability of DFS Requirements Prior to Use of a Channel**

Requirement	DFS Operational mode		
	Master	Client without radar detection	Client with radar detection
<i>Non-Occupancy Period</i>	Yes	Not required	Yes
<i>DFS Detection Threshold</i>	Yes	Not required	Yes
<i>Channel Availability Check Time</i>	Yes	Not required	Not required
<i>U-NII Detection Bandwidth</i>	Yes	Not required	Yes

**3.1.3 Applicability of DFS Requirements during Normal Operation**

Requirement	DFS Operational mode		
	Master	Client without radar detection	Client with radar detection
<i>DFS Detection Threshold</i>	Yes	Not required	Yes
<i>Channel Closing Transmission Time</i>	Yes	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes	Yes
<i>U-NII Detection Bandwidth</i>	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 User Access Restrictions

User Access Restrictions	
<input checked="" type="checkbox"/>	DFS controls (hardware or software) related to radar detection are NOT accessible to the user. Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user.

### 3.1.5 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 (MPEG-4) has been transmitting in a streaming mode.
<input checked="" type="checkbox"/>	Software to ping the client is permitted to simulate data transfer with random ping intervals.
<input checked="" type="checkbox"/>	Minimum channel loading of approximately 17%.
<input type="checkbox"/>	Unicast protocol has been used.
<input type="checkbox"/>	Frame Based - stream the test file from the Master to the Client.
<input type="checkbox"/>	fixed talk/listen ratio, set the ratio to 45%/55%



### 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	$\text{Roundup}\left\{\left(\frac{1}{360}\right) \times \left(\frac{19 \times 10^6}{PRI}\right)\right\}$	60%	15
1B	1	15 unique PRI within 518-3066, Excluding 1A PRI		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
Aggregate (Radar Types 1-4)				80%	120
<b>Note 1:</b> 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 Burst	Number of Bursts	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 Burst will have the same chirp width. Pulses in different Bursts may have different chirp widths. 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 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  $(12,000,000 / \text{Burst\_Count})$  microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and  $[(12,000,000 / \text{Burst\_Count}) - (\text{Total Burst Length}) + (\text{One Random PRI Interval})]$  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**

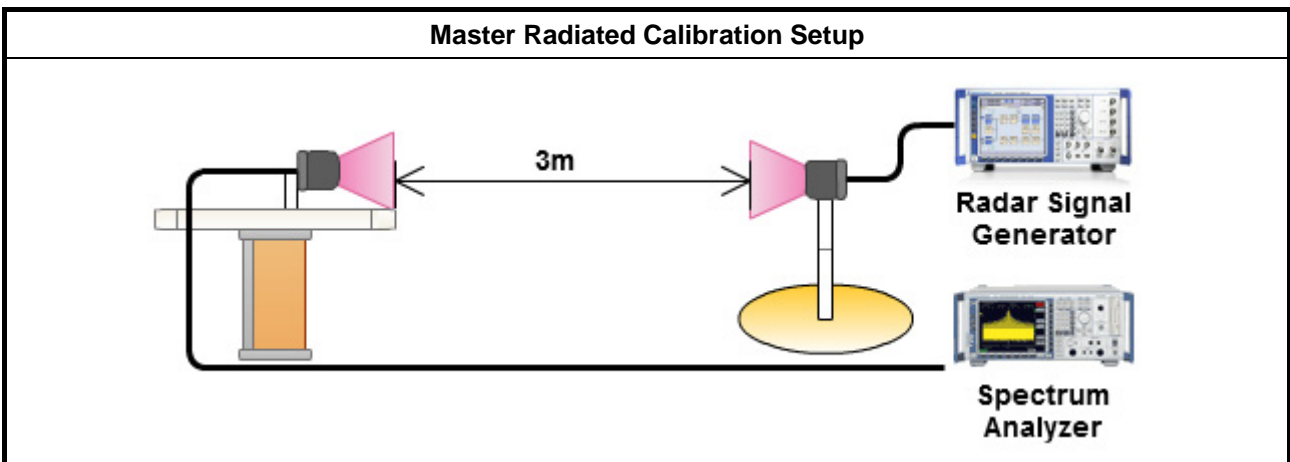
Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ms)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	0.333	300	70%	30

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**

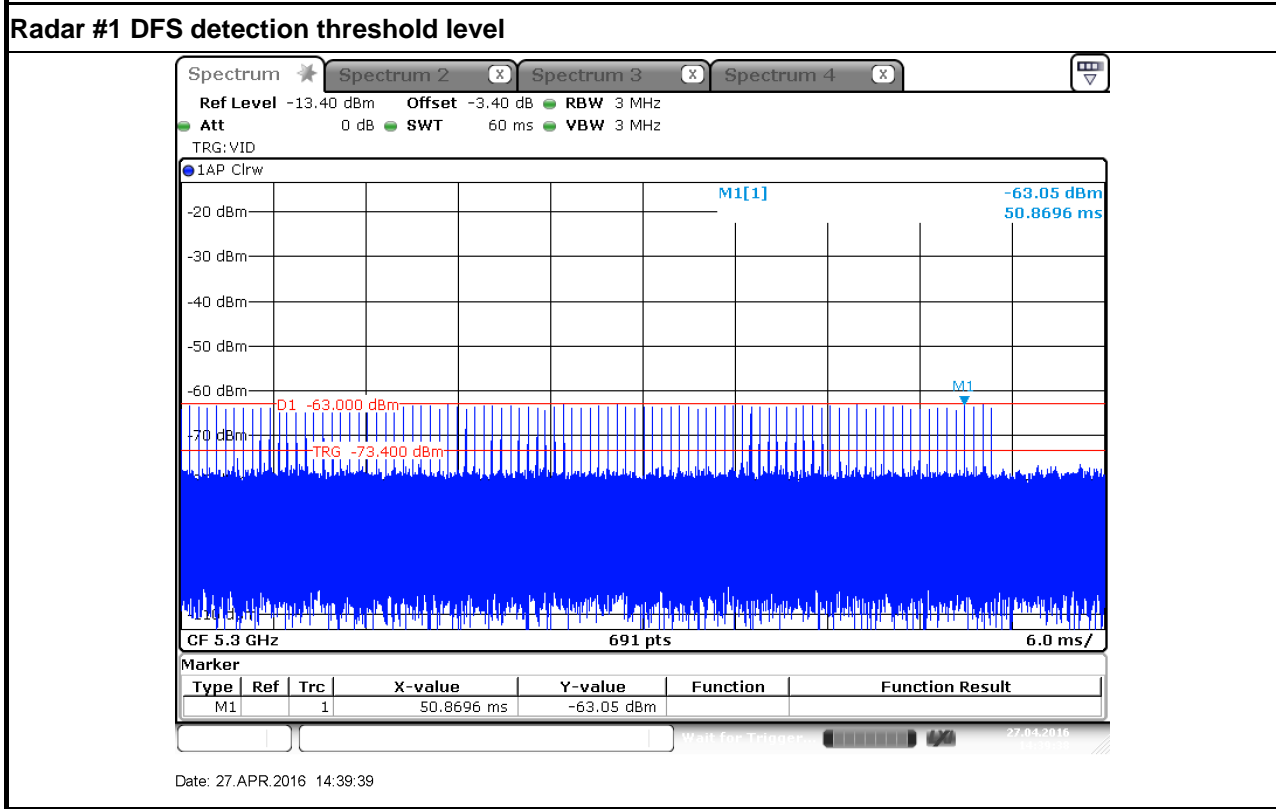
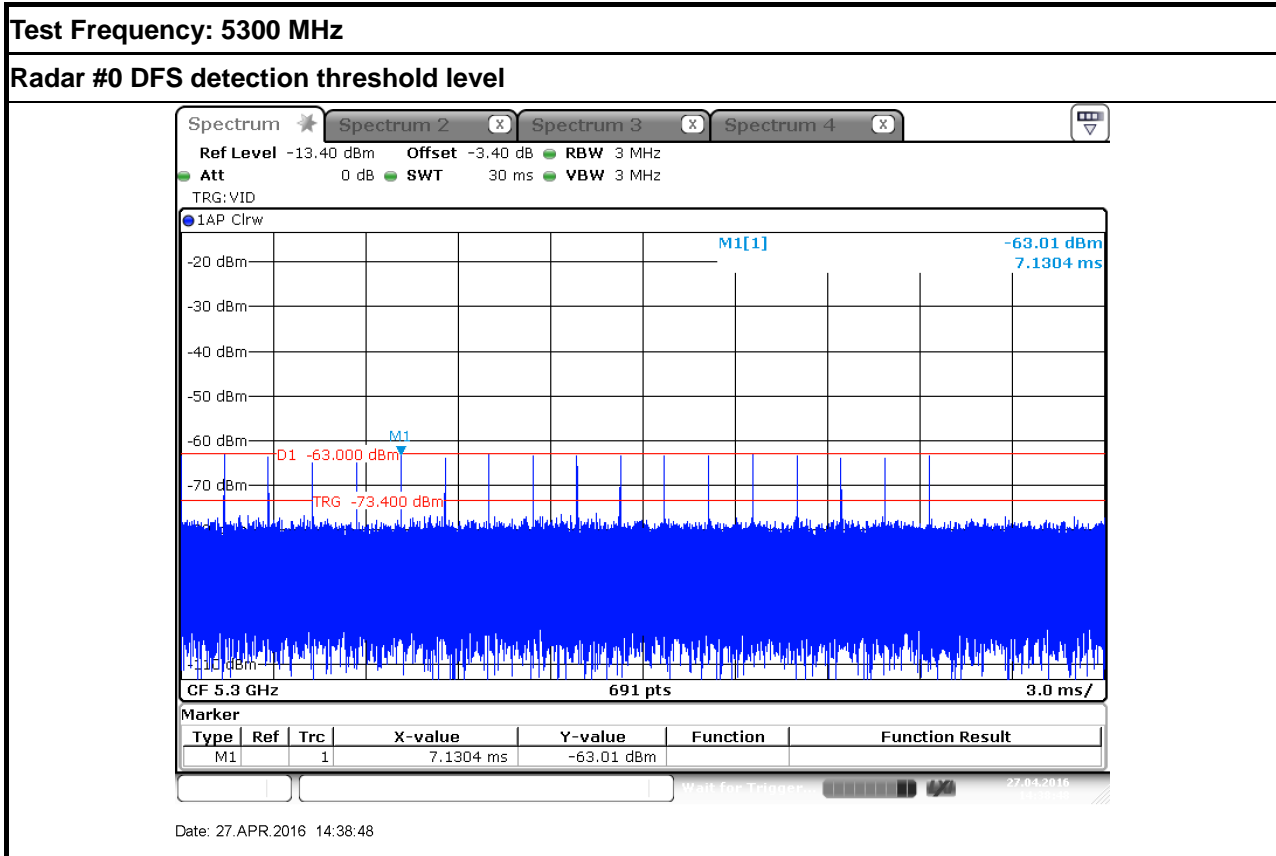
DFS Threshold Level	
DFS Threshold level: -63 dBm	<input type="checkbox"/> at the antenna connector
	<input checked="" type="checkbox"/> in front of the antenna
The Interference <b>Radar Detection Threshold Level</b> is is $-64 \text{ dBm} + 0 [\text{dBi}] + 1 \text{ dB} = -63 \text{ dBm}$ . That had been taken into account the output power range and antenna gain.	

**3.2.5 Calibration Setup**



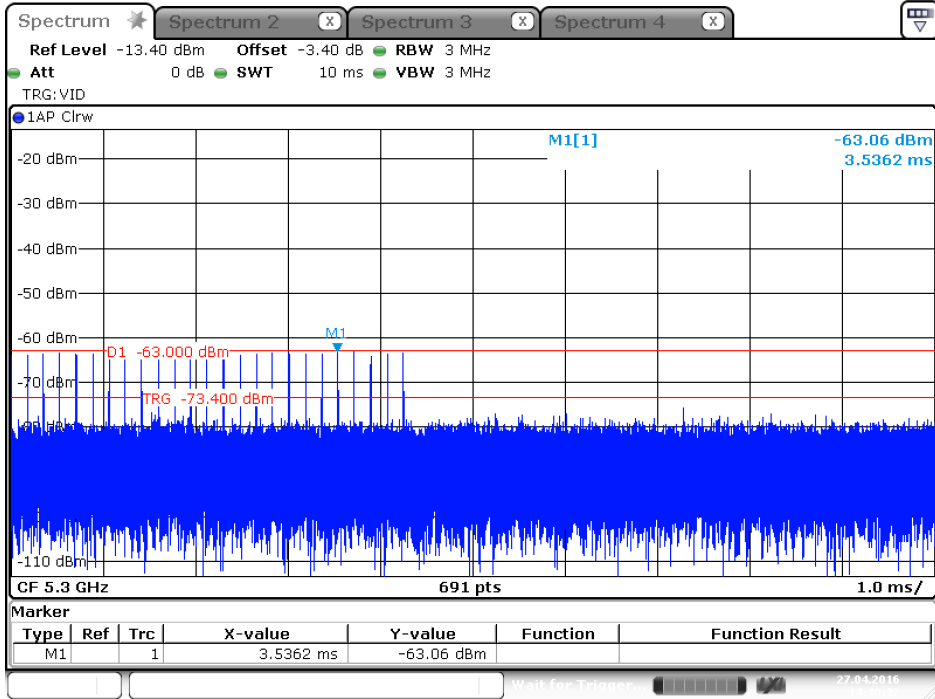


### 3.2.6 Radar Waveform calibration Plot



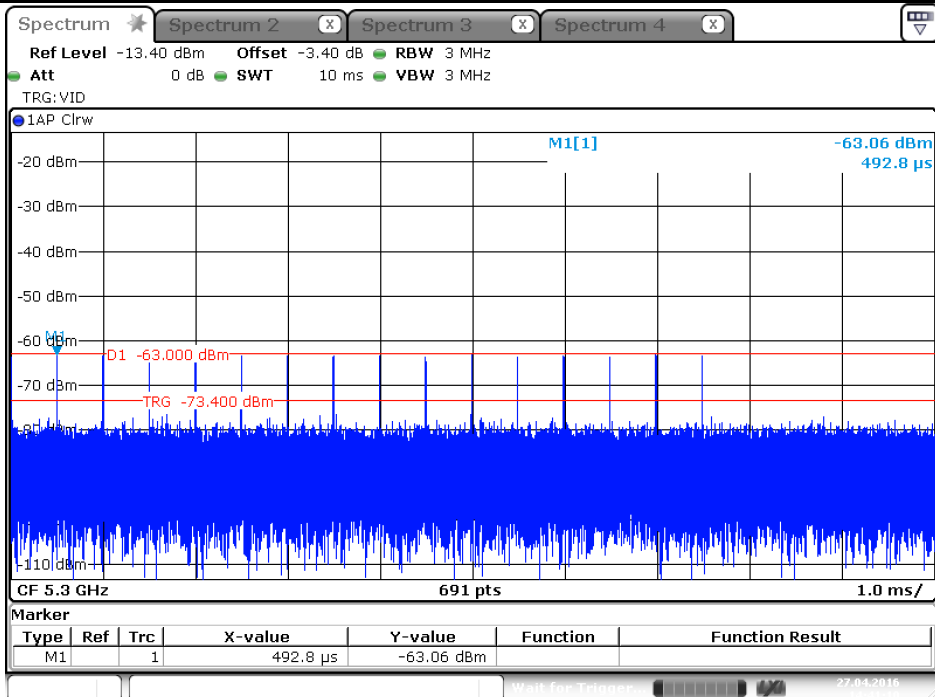


**Radar #2 DFS detection threshold level**



Date: 27.APR.2016 14:40:32

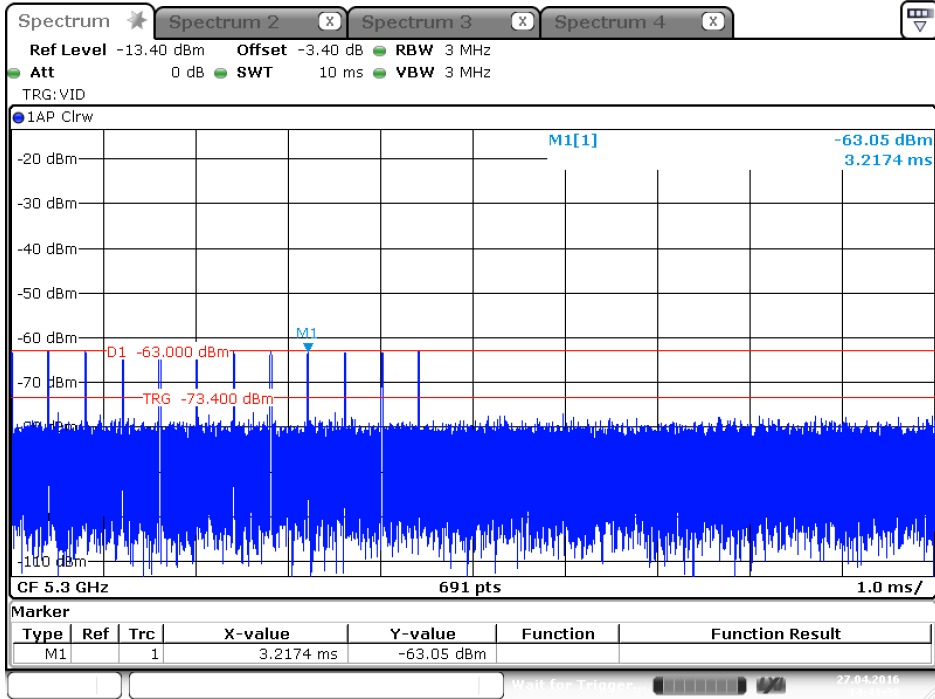
**Radar #3 DFS detection threshold level**



Date: 27.APR.2016 14:41:09

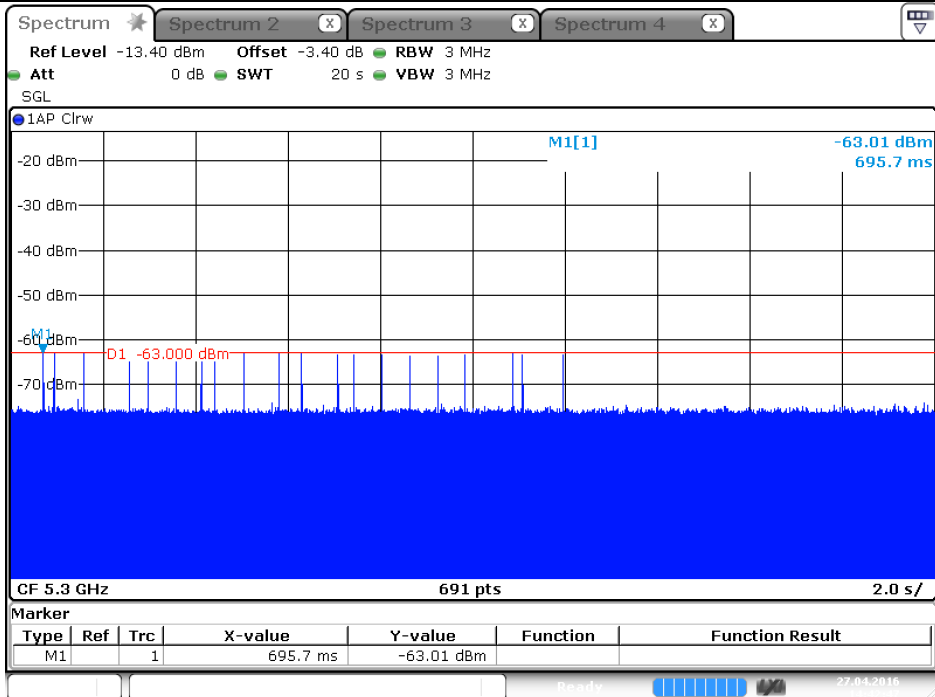


**Radar #4 DFS detection threshold level**



Date: 27.APR.2016 14:41:38

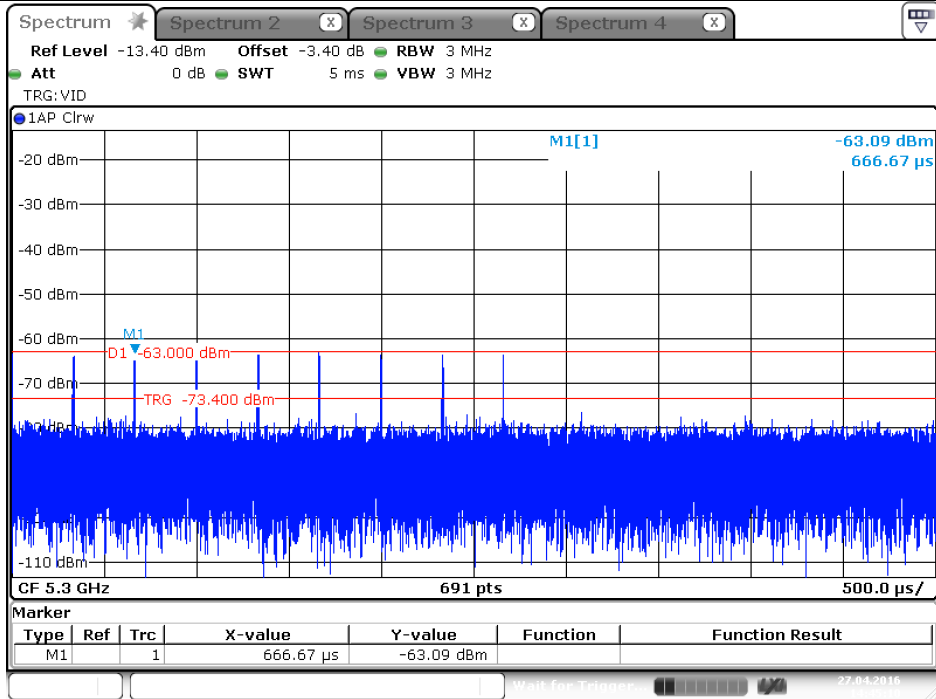
**Radar #5 DFS detection threshold level**



Date: 27.APR.2016 14:42:47



Radar #6 DFS detection threshold level



Date: 27.APR.2016 14:45:10





### 3.3 UNII Detection Bandwidth

#### 3.3.1 UNII Detection Bandwidth Limit

Channel Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	UNII Detection Bandwidth Min. Limit (MHz)	ISM Type 5 Limit (MHz)
10	8.856	9	7
20	17.713	18	14

UNII Detection Bandwidth is 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.

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

#### 3.3.2 Measuring Instruments

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

#### 3.3.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	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 = $F_H - F_L$ .



3.3.4 Test Result of UNII Detection Bandwidth

EUT Frequency=5300 MHz												
Channel Bandwidth (MHz)	10											
Radar Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)	
	1	2	3	4	5	6	7	8	9	10		
5294	0	0	0	0	0	0	0	0	0	0	0	0
5295(FL)-Type 0	1	1	1	1	1	1	1	1	1	1	1	100
5296(FL)-Type 5	1	1	1	1	1	1	1	1	1	1	1	100
5297	1	1	1	1	1	1	1	1	1	1	1	100
5298	1	1	1	1	1	1	1	1	1	1	1	100
5299	1	1	1	1	1	1	1	1	1	1	1	100
5300	1	1	1	1	1	1	1	1	1	1	1	100
5301	1	1	1	1	1	1	1	1	1	1	1	100
5302	1	1	1	1	1	1	1	1	1	1	1	100
5303	1	1	1	1	1	1	1	1	1	1	1	100
5304(FH)-Type 5	1	1	1	1	1	1	1	1	1	1	1	100
5305(FH)-Type 0	1	1	1	1	1	1	1	1	1	1	1	100
5306	0	0	0	0	0	0	0	0	0	0	0	0
Radar Type 0-Detection Bandwidth (MHz) = (FH-FL) = (5305MHz-5295MHz)=											10	
UNII Detection Bandwidth Min. Limit (MHz) =											9	
Radar Type 5-Detection Bandwidth (MHz) = (FH-FL) = (5304MHz-5297MHz)=											7	
ISM Type 5 Limit (MHz) =											7	
<b>Test Result</b>											<b>Complied</b>	



EUT Frequency=5300 MHz											
Channel Bandwidth (MHz)	20										
Radar Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5290	0	0	0	0	0	0	0	0	0	0	0
5291(FL)-Type 0	1	1	1	1	1	1	1	1	1	1	1
5292	1	1	1	1	1	1	1	1	1	1	1
5293(FL)-Type 5	1	1	1	1	1	1	1	1	1	1	1
5294	1	1	1	1	1	1	1	1	1	1	1
5295	1	1	1	1	1	1	1	1	1	1	1
5296	1	1	1	1	1	1	1	1	1	1	1
5297	1	1	1	1	1	1	1	1	1	1	1
5298	1	1	1	1	1	1	1	1	1	1	1
5299	1	1	1	1	1	1	1	1	1	1	1
5300	1	1	1	1	1	1	1	1	1	1	1
5301	1	1	1	1	1	1	1	1	1	1	1
5302	1	1	1	1	1	1	1	1	1	1	1
5303	1	1	1	1	1	1	1	1	1	1	1
5304	1	1	1	1	1	1	1	1	1	1	1
5305	1	1	1	1	1	1	1	1	1	1	1
5306	1	1	1	1	1	1	1	1	1	1	1
5307(FH)-Type 5	1	1	1	1	1	1	1	1	1	1	1
5308	1	1	1	1	1	1	1	1	1	1	1
5309(FH)-Type 0	1	1	1	1	1	1	1	1	1	1	1
5310	0	0	0	0	0	0	0	0	0	0	0
Radar Type 0-Detection Bandwidth (MHz) = (FH-FL) = (5309MHz-5291MHz)=											18
UNII Detection Bandwidth Min. Limit (MHz) =											18
Radar Type 5-Detection Bandwidth (MHz) = (FH-FL) = (5307MHz-5293MHz)=											14
ISM Type 5 Limit (MHz) =											14
<b>Test Result</b>											<b>Complied</b>



### 3.4 Statistical Performance Check

#### 3.4.1 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:

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

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

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

#### 3.4.2 Measuring Instruments

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

#### 3.4.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> For Statistical Performance Check test. Demonstrating a minimum channel loading of approximately 17% or greater 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.



3.4.4 Test Result of Statistical Performance Check

Modulation Mode: OFDM (10MHz)

Type 1 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulse Per Second)	PRI (us)	1=Detection 0=No Detection
1	5295	1	1930.5	518	1
2	5296	23	326.2	3066	1
3	5297	19	1139.0	878	1
4	5298	12	1355.0	738	1
5	5299	4	1730.1	578	1
6	5300	8	1519.8	658	1
7	5301	15	1253.1	798	1
8	5302	6	1618.1	618	0
9	5303	14	1285.3	778	1
10	5304	3	1792.1	558	1
11	5305	13	1319.3	758	1
12	5295	9	1474.9	678	1
13	5296	7	1567.4	638	1
14	5297	17	1193.3	838	0
15	5298	10	1432.7	698	1
16	5299	-	1692.0	591	1
17	5300	-	328.1	3048	1
18	5301	-	373.4	2678	1
19	5302	-	574.4	1741	1
20	5303	-	1216.5	822	1
21	5304	-	801.3	1248	1
22	5305	-	488.5	2047	1
23	5300	-	956.0	1046	1
24	5301	-	517.6	1932	1
25	5302	-	1422.5	703	1
26	5303	-	542.0	1845	0
27	5304	-	741.3	1349	1
28	5305	-	881.8	1134	1
29	5303	-	427.4	2340	1
30	5304	-	628.9	1590	1
Detection Percentage (%)					90.000
Limit					60%
<b>Test Result</b>					<b>Complied</b>



**Type 2 Radar Statistical Performance**

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5295	2.6	221	23	1
2	5296	4.6	198	27	1
3	5297	1.1	184	29	0
4	5298	4.8	203	24	1
5	5299	2.4	162	25	1
6	5300	3.4	204	28	1
7	5301	2.3	170	27	0
8	5302	3.5	184	23	1
9	5303	4.9	150	27	1
10	5304	4.6	211	29	1
11	5305	2.9	158	23	1
12	5295	2.6	226	27	1
13	5296	1.6	204	26	1
14	5297	3.9	181	25	1
15	5298	4.6	202	24	1
16	5299	4.1	194	27	1
17	5300	2.3	193	28	1
18	5301	3.9	173	29	1
19	5302	4.3	188	23	1
20	5303	1.5	215	26	1
21	5304	4.9	227	27	1
22	5305	1.1	199	23	1
23	5300	4.5	155	29	0
24	5301	4.0	190	27	1
25	5302	2.4	151	23	1
26	5303	2.5	180	28	1
27	5304	2.5	228	23	1
28	5305	2.5	203	25	1
29	5303	1.5	188	25	1
30	5304	1.9	217	24	0
Detection Percentage (%)					86.667
Limit					60%
<b>Test Result</b>					<b>Complied</b>



**Type 3 Radar Statistical Performance**

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection ; 0=No Detection
1	5295	8.0	205	16	0
2	5296	6.7	382	18	1
3	5297	8.6	418	16	0
4	5298	9.4	351	17	1
5	5299	7.4	383	18	1
6	5300	9.8	232	16	1
7	5301	9.1	377	17	1
8	5302	9.6	457	16	0
9	5303	8.0	471	18	1
10	5304	9.0	304	18	1
11	5305	8.0	316	17	1
12	5295	9.8	325	16	1
13	5296	8.0	409	17	1
14	5297	9.9	200	17	1
15	5298	8.8	458	16	0
16	5299	8.0	232	18	1
17	5300	8.3	250	16	1
18	5301	8.7	270	16	1
19	5302	7.7	350	17	1
20	5303	7.1	230	16	1
21	5304	7.3	416	18	1
22	5305	7.6	498	18	1
23	5300	7.3	286	17	1
24	5301	7.3	287	16	1
25	5302	7.5	462	17	1
26	5303	6.2	300	17	1
27	5304	6.4	323	18	1
28	5305	7.1	420	16	1
29	5303	7.2	395	18	1
30	5304	8.4	377	16	1
Detection Percentage (%)					86.667
Limit					60%
<b>Test Result</b>					<b>Complied</b>



**Type 4 Radar Statistical Performance**

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5295	18.0	242	15	1
2	5296	19.9	279	12	1
3	5297	12.9	487	14	0
4	5298	15.0	452	13	1
5	5299	16.3	230	12	1
6	5300	19.8	238	13	1
7	5301	18.2	420	16	1
8	5302	16.3	452	15	1
9	5303	14.2	495	12	1
10	5304	17.8	228	16	1
11	5305	19.1	211	16	1
12	5295	18.4	283	15	1
13	5296	11.8	411	12	1
14	5297	14.2	284	13	1
15	5298	13.9	202	12	1
16	5299	17.8	340	14	1
17	5300	15.6	290	16	1
18	5301	14.6	250	16	1
19	5302	14.4	484	15	1
20	5303	18.9	387	13	1
21	5304	11.1	348	15	1
22	5305	13.8	291	16	0
23	5300	14.3	295	12	1
24	5301	12.5	300	12	1
25	5302	12.5	322	14	1
26	5303	12.5	383	13	1
27	5304	15.7	322	16	1
28	5305	19.8	469	13	1
29	5303	18.6	406	15	1
30	5304	15.9	238	14	1
Detection Percentage (%)					93.333
Limit					60%
<b>Test Result</b>					<b>Complied</b>





**Total Type 1~4 Radar Statistical Performance**

<b>Radar Type #</b>	<b>Detection Percentage (%)</b>
1	90.000
2	86.667
3	86.667
4	93.333
Aggregate (Radar Types 1-4)	89.167
Limit	80
<b>Test Result</b>	<b>Complied</b>



**Type 5 Radar Statistical Performance**

Trial #	Test Freq. (MHz)	1=Detection 0=No Detection	Trial #	Test Freq. (MHz)	1=Detection 0=No Detection	Trial #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5297	1	11	5298	0	21	5299	0
2	5301	1	12	5303	1	22	5301	1
3	5297	0	13	5297	1	23	5304	1
4	5300	1	14	5298	1	24	5300	1
5	5302	1	15	5300	1	25	5301	1
6	5304	1	16	5303	1	26	5299	1
7	5298	1	17	5298	1	27	5299	1
8	5300	1	18	5301	1	28	5302	1
9	5302	1	19	5303	1	29	5304	1
10	5303	1	20	5297	0	30	5299	1
Detection Percentage (%)								86.667
Limit								80%
<b>Test Result</b>								<b>Complied</b>



<b>Trial Number</b>							1
<b>Number of Bursts in Trial</b>							8
<b>Chirp Center Frequency</b>							5297
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	1	62.3	8	-	-	346	
2	2	51.2	15	1745	-	1205	
3	3	93.6	5	1002	1634	674	
4	3	68.2	12	1668	1573	384	
5	3	83.1	8	1188	1888	876	
6	1	56.7	18	-	-	376	
7	2	60.6	18	1874	-	1409	
8	3	75.5	13	1263	1683	1378	
Detection Check (1=Detection; 0=No Detection)							1

<b>Trial Number</b>							2
<b>Number of Bursts in Trial</b>							9
<b>Chirp Center Frequency</b>							5301
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	1	99.6	13	-	-	217	
2	2	54.8	15	1727	-	982	
3	3	91.1	15	1120	1826	941	
4	2	76.2	7	1638	-	477	
5	1	88.9	13	-	-	259	
6	1	83	9	-	-	892	
7	1	83.9	12	-	-	320	
8	2	55.9	15	1613	-	445	
9	1	96.1	13	-	-	779	
Detection Check (1=Detection; 0=No Detection)							1



<b>Trial Number</b>							3
<b>Number of Bursts in Trial</b>							10
<b>Chirp Center Frequency</b>							5297
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	82	6	1246	-	1017	
2	1	93.2	13	-	-	760	
3	2	61.3	13	1175	-	327	
4	1	52.8	8	-	-	824	
5	3	70.6	19	1005	1076	115	
6	1	80.3	17	-	-	325	
7	1	83.2	15	-	-	679	
8	2	94	9	1805	-	888	
9	2	67	8	1486	-	849	
10	1	56.4	20	-	-	813	
Detection Check (1=Detection; 0=No Detection)							0

<b>Trial Number</b>							4
<b>Number of Bursts in Trial</b>							11
<b>Chirp Center Frequency</b>							5300
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	3	90.5	8	1149	1612	35	
2	3	54.5	8	1094	1525	1014	
3	1	57.1	18	-	-	827	
4	2	98.6	20	1292	-	83	
5	2	62.9	12	1433	-	676	
6	1	71.1	15	-	-	708	
7	1	96.7	5	-	-	711	
8	1	64.3	5	-	-	484	
9	3	61.2	8	1075	1524	444	
10	2	79.2	13	1877	-	797	
11	2	79.3	20	1313	-	288	
Detection Check (1=Detection; 0=No Detection)							1



<b>Trial Number</b>							5
<b>Number of Bursts in Trial</b>							12
<b>Chirp Center Frequency</b>							5302
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	1	89.5	13	-	-	20	
2	3	71.8	11	1446	1549	117	
3	3	53.7	15	1100	1517	485	
4	2	99.3	11	1571	-	334	
5	3	56.8	6	1594	1280	468	
6	1	97.4	11	-	-	213	
7	2	67.6	13	1831	-	14	
8	3	77.1	8	1683	1337	267	
9	1	98.5	17	-	-	544	
10	3	58.3	13	1924	1829	159	
11	1	98.4	14	-	-	380	
12	1	79.3	11	-	-	257	
Detection Check (1=Detection; 0=No Detection)							1

<b>Trial Number</b>							6
<b>Number of Bursts in Trial</b>							13
<b>Chirp Center Frequency</b>							5304
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	53.8	14	1631	-	768	
2	1	90	17	-	-	530	
3	3	87.2	18	1115	1297	157	
4	2	82	11	1728	-	892	
5	3	69.8	7	1641	1779	196	
6	2	63.1	20	1836	-	331	
7	1	59.8	6	-	-	495	
8	3	78.5	19	1018	1921	546	
9	1	85.7	6	-	-	219	
10	3	67.7	9	1834	1450	534	
11	2	84.5	15	1376	-	282	
12	2	99.3	13	1570	-	486	
13	2	80.2	8	1088	-	67	
Detection Check (1=Detection; 0=No Detection)							1



<b>Trial Number</b>							7
<b>Number of Bursts in Trial</b>							14
<b>Chirp Center Frequency</b>							5298
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	3	80.8	10	1061	1124	389	
2	2	81	9	1479	-	234	
3	2	87.6	17	1247	-	577	
4	2	94.7	18	1041	-	572	
5	2	78	18	1267	-	313	
6	1	95.5	14	-	-	52	
7	2	97.6	15	1215	-	57	
8	3	88	9	1349	1598	171	
9	2	69.7	17	1711	-	769	
10	2	96.5	17	1431	-	168	
11	2	96.9	6	1871	-	124	
12	3	66.4	10	1824	1468	766	
13	1	78.8	10	-	-	537	
14	3	87.6	6	1080	1159	714	
<b>Detection Check (1=Detection; 0=No Detection)</b>							1

<b>Trial Number</b>							8
<b>Number of Bursts in Trial</b>							15
<b>Chirp Center Frequency</b>							5300
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	71.8	14	1432	-	573	
2	2	65.9	19	1762	-	314	
3	2	74.7	6	1754	-	377	
4	3	81.7	5	1133	1032	216	
5	3	57.8	14	1176	1712	129	
6	1	80.6	6	-	-	341	
7	3	99.3	17	1268	1876	165	
8	1	79.8	12	-	-	618	
9	3	83	11	1034	1738	589	
10	3	71.5	11	1473	1255	6	
11	1	77.4	11	-	-	127	
12	2	84.8	12	1390	-	515	
13	2	64.6	12	1653	-	148	
14	2	92.9	12	1881	-	519	
15	1	71.3	6	-	-	301	
<b>Detection Check (1=Detection; 0=No Detection)</b>							1



<b>Trial Number</b>							9
<b>Number of Bursts in Trial</b>							16
<b>Chirp Center Frequency</b>							5302
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	55.4	9	1318	-	383	
2	2	80.8	18	1710	-	534	
3	1	88.8	9	-	-	495	
4	2	78	12	1818	-	92	
5	1	78.5	12	-	-	108	
6	2	55	13	1219	-	123	
7	2	75.9	20	1004	-	123	
8	2	70.9	7	1820	-	546	
9	2	71.7	18	1559	-	476	
10	2	73.9	19	1232	-	235	
11	1	59.2	20	-	-	424	
12	1	55.7	9	-	-	391	
13	3	60.9	12	1144	1370	198	
14	2	60.8	14	1022	-	16	
15	3	60.6	19	1526	1326	695	
16	2	89	5	1029	-	131	
<b>Detection Check (1=Detection; 0=No Detection)</b>							1

<b>Trial Number</b>							10
<b>Number of Bursts in Trial</b>							17
<b>Chirp Center Frequency</b>							5303
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	72.1	14	1119	-	488	
2	3	81.4	13	1142	1044	451	
3	3	92.9	18	1006	1147	565	
4	3	81.3	18	1793	1369	285	
5	3	76.4	20	1005	1793	79	
6	1	61.6	18	-	-	503	
7	1	66.6	19	-	-	181	
8	1	53.7	12	-	-	416	
9	2	58	8	1477	-	107	
10	2	64	18	1791	-	141	
11	2	80.3	12	1304	-	516	
12	3	77.3	5	1039	1668	372	
13	2	97.6	11	1593	-	163	
14	1	73	6	-	-	147	
15	3	65.1	8	1097	1927	102	
16	2	59.5	13	1569	-	182	
17	1	88.2	19	-	-	653	
<b>Detection Check (1=Detection; 0=No Detection)</b>							1



<b>Trial Number</b>				11		
<b>Number of Bursts in Trial</b>				18		
<b>Chirp Center Frequency</b>				5298		
<b>Burst</b>	<b>No. of Pulses</b>	<b>Pulse Width (us)</b>	<b>Chirp Width (MHz)</b>	<b>Pulse 1-to-2 Spacing (us)</b>	<b>Pulse 2-to-3 Spacing (us)</b>	<b>Starting Location Within Interval (ms)</b>
1	2	56.1	12	1219	-	273
2	1	83.3	7	-	-	298
3	3	79.6	17	1218	1897	159
4	2	95.8	7	1672	-	480
5	2	79.6	8	1029	-	387
6	2	88.9	11	1779	-	5
7	2	81.4	8	1645	-	201
8	2	92	6	1454	-	80
9	3	96	13	1518	1121	192
10	2	65.6	11	1798	-	349
11	2	98.7	5	1360	-	416
12	2	52.9	15	1140	-	652
13	2	76.5	8	1032	-	92
14	3	73.8	18	1719	1383	502
15	3	83.7	10	1270	1216	343
16	2	89.6	10	1141	-	108
17	2	67.2	20	1455	-	272
18	3	55.7	14	1444	1475	566
<b>Detection Check (1=Detection; 0=No Detection)</b>						0





<b>Trial Number</b>				12		
<b>Number of Bursts in Trial</b>				19		
<b>Chirp Center Frequency</b>				5303		
<b>Burst</b>	<b>No. of Pulses</b>	<b>Pulse Width (us)</b>	<b>Chirp Width (MHz)</b>	<b>Pulse 1-to-2 Spacing (us)</b>	<b>Pulse 2-to-3 Spacing (us)</b>	<b>Starting Location Within Interval (ms)</b>
1	2	70.6	15	1040	-	575
2	2	72.9	13	1460	-	178
3	3	88.9	5	1250	1629	191
4	3	60.3	20	1757	1822	468
5	3	92.1	19	1845	1198	476
6	1	73	5	-	-	532
7	1	50.4	15	-	-	69
8	1	66.4	10	-	-	333
9	1	79.1	18	-	-	437
10	1	71.6	20	-	-	424
11	2	95.6	13	1229	-	498
12	1	74.4	9	-	-	363
13	3	55.6	17	1263	1724	123
14	2	78.3	13	1507	-	37
15	3	54.1	13	1325	1249	192
16	2	67.1	18	1584	-	311
17	2	65.8	9	1195	-	243
18	2	50.1	12	1755	-	48
19	2	87.7	18	1359	-	180
<b>Detection Check (1=Detection; 0=No Detection)</b>						1



<b>Trial Number</b>				13		
<b>Number of Bursts in Trial</b>				20		
<b>Chirp Center Frequency</b>				5297		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)
1	3	79.5	7	1808	1550	274
2	2	76.7	20	1632	-	573
3	3	85.9	12	1305	1496	18
4	3	86.6	14	1001	1172	133
5	2	74.9	14	1348	-	48
6	3	82.2	20	1692	1310	156
7	2	53.9	13	1342	-	45
8	3	62.7	15	1839	1651	76
9	2	86.2	6	1165	-	91
10	1	63.1	11	-	-	391
11	2	82.4	6	1416	-	107
12	1	95.8	18	-	-	248
13	2	75.7	9	1024	-	482
14	3	70.1	18	1563	1020	354
15	3	85.8	13	1420	1084	446
16	1	63.2	7	-	-	265
17	1	75.1	11	-	-	147
18	2	69.5	5	1802	-	256
19	1	51.8	19	-	-	422
20	2	62.3	5	1449	-	304
Detection Check (1=Detection; 0=No Detection)						1

<b>Trial Number</b>				14		
<b>Number of Bursts in Trial</b>				8		
<b>Chirp Center Frequency</b>				5298		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)
1	3	74.9	5	1314	1466	1289
2	2	83.9	19	1442	-	1436
3	2	55.8	6	1147	-	240
4	2	59.4	6	1490	-	1455
5	2	78.2	15	1665	-	1312
6	2	57.3	15	1357	-	264
7	2	76.2	11	1651	-	255
8	3	59	7	1460	1109	1410
Detection Check (1=Detection; 0=No Detection)						1



<b>Trial Number</b>							15
<b>Number of Bursts in Trial</b>							9
<b>Chirp Center Frequency</b>							5300
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	3	77.7	19	1046	1568	17	
2	2	98.2	20	1628	-	877	
3	2	95.3	8	1540	-	1066	
4	2	78.8	15	1341	-	822	
5	2	52.8	20	1011	-	1020	
6	2	65.2	9	1480	-	602	
7	2	99.5	10	1867	-	884	
8	2	79.5	13	1148	-	342	
9	3	50.6	13	1030	1525	1321	
Detection Check (1=Detection; 0=No Detection)							1

<b>Trial Number</b>							16
<b>Number of Bursts in Trial</b>							10
<b>Chirp Center Frequency</b>							5303
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	97.5	11	1357	-	764	
2	2	91.8	13	1896	-	298	
3	1	78.5	5	-	-	1117	
4	1	60.1	11	-	-	1069	
5	2	96.2	10	1041	-	1157	
6	2	56.6	18	1626	-	701	
7	1	77.1	20	-	-	323	
8	2	96.3	8	1682	-	307	
9	2	52.2	13	1017	-	217	
10	1	92.8	15	-	-	316	
Detection Check (1=Detection; 0=No Detection)							1



<b>Trial Number</b>							17
<b>Number of Bursts in Trial</b>							11
<b>Chirp Center Frequency</b>							5298
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	57.3	8	1220	-	792	
2	3	73.1	5	1717	1679	845	
3	2	54.1	14	1008	-	112	
4	2	98.8	19	1137	-	715	
5	3	85.5	8	1068	1003	301	
6	2	78.5	7	1387	-	827	
7	2	77.9	12	1869	-	506	
8	1	81.9	10	-	-	549	
9	1	50.4	9	-	-	464	
10	1	75.2	8	-	-	790	
11	2	92.7	7	1770	-	967	
Detection Check (1=Detection; 0=No Detection)							1

<b>Trial Number</b>							18
<b>Number of Bursts in Trial</b>							12
<b>Chirp Center Frequency</b>							5301
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	79.1	6	1042	-	793	
2	3	55.7	9	1327	1744	159	
3	1	95	20	-	-	734	
4	1	88.4	5	-	-	523	
5	1	92.3	15	-	-	546	
6	1	93.6	6	-	-	208	
7	2	95.1	12	1044	-	894	
8	1	59.5	17	-	-	666	
9	2	98.7	17	1422	-	640	
10	2	65.1	5	1104	-	320	
11	1	60.2	5	-	-	60	
12	1	88.7	8	-	-	823	
Detection Check (1=Detection; 0=No Detection)							1



<b>Trial Number</b>							19
<b>Number of Bursts in Trial</b>							13
<b>Chirp Center Frequency</b>							5303
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	1	53.9	10	-	-	226	
2	2	82.6	13	1008	-	854	
3	1	87.7	8	-	-	303	
4	3	69	12	1696	1606	528	
5	1	68.6	12	-	-	220	
6	3	76.5	13	1333	1468	389	
7	2	95.8	17	1380	-	57	
8	2	55.6	19	1147	-	334	
9	2	78.6	14	1268	-	128	
10	2	65.4	17	1231	-	913	
11	2	76.6	18	1883	-	518	
12	1	93.2	6	-	-	596	
13	2	50.2	13	1836	-	61	
Detection Check (1=Detection; 0=No Detection)							1

<b>Trial Number</b>							20
<b>Number of Bursts in Trial</b>							14
<b>Chirp Center Frequency</b>							5297
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	1	60.9	13	-	-	142	
2	2	81.7	15	1831	-	522	
3	2	78.5	5	1396	-	790	
4	2	98.2	6	1652	-	3	
5	1	64.1	12	-	-	414	
6	3	53	18	1862	1902	157	
7	2	62.3	15	1490	-	248	
8	2	87	11	1411	-	576	
9	2	78.4	8	1090	-	737	
10	2	87.2	7	1021	-	343	
11	3	71	13	1662	1841	105	
12	2	77.2	5	1557	-	601	
13	1	94.4	15	-	-	108	
14	1	90.6	13	-	-	506	
Detection Check (1=Detection; 0=No Detection)							0



<b>Trial Number</b>							21
<b>Number of Bursts in Trial</b>							15
<b>Chirp Center Frequency</b>							5299
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	3	76.5	8	1870	1326	385	
2	2	95.3	13	1162	-	73	
3	3	58.9	9	1586	1909	742	
4	2	73.1	13	1460	-	330	
5	2	73.1	12	1488	-	25	
6	2	75.1	5	1331	-	418	
7	3	98.5	11	1005	1532	214	
8	3	72.5	13	1110	1903	387	
9	3	67.4	12	1567	1513	80	
10	2	76.1	12	1005	-	277	
11	2	94.3	17	1413	-	314	
12	2	72.8	12	1778	-	66	
13	2	90.9	14	1793	-	147	
14	3	94.8	11	1012	1742	441	
15	3	95	12	1011	1641	609	
Detection Check (1=Detection; 0=No Detection)							0

<b>Trial Number</b>							22
<b>Number of Bursts in Trial</b>							16
<b>Chirp Center Frequency</b>							5301
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	1	96.7	9	-	-	308	
2	2	78.3	13	1045	-	27	
3	1	56.5	12	-	-	74	
4	3	88.5	14	1119	1020	629	
5	2	62.4	9	1436	-	548	
6	2	78.2	5	1147	-	341	
7	3	76.8	14	1069	1575	360	
8	2	91.6	18	1026	-	602	
9	2	93.7	5	1130	-	623	
10	2	97.4	8	1100	-	256	
11	3	90.1	6	1629	1375	108	
12	2	79.9	18	1809	-	183	
13	2	83	10	1370	-	477	
14	2	89.1	13	1239	-	484	
15	2	58.3	8	1321	-	276	
16	1	85.2	13	-	-	22	
Detection Check (1=Detection; 0=No Detection)							1



<b>Trial Number</b>			23			
<b>Number of Bursts in Trial</b>			17			
<b>Chirp Center Frequency</b>			5304			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)
1	3	60	10	1097	1748	56
2	3	66.3	13	1391	1430	421
3	2	88.5	15	1040	-	583
4	2	72.1	8	1526	-	161
5	1	72.3	8	-	-	450
6	2	67.3	7	1022	-	48
7	2	56.1	12	1325	-	661
8	1	83.5	11	-	-	695
9	3	99.4	13	1490	1033	405
10	1	54.2	12	-	-	126
11	3	92.7	17	1251	1631	365
12	3	95.1	17	1741	1162	57
13	2	84	9	1597	-	167
14	1	68.5	18	-	-	512
15	1	76.5	20	-	-	185
16	3	86.6	11	1774	1875	457
17	2	62.2	9	1563	-	492
<b>Detection Check (1=Detection; 0=No Detection)</b>						1

<b>Trial Number</b>			24			
<b>Number of Bursts in Trial</b>			18			
<b>Chirp Center Frequency</b>			5300			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)
1	1	86.6	19	-	-	621
2	2	95.3	17	1028	-	128
3	1	76.2	12	-	-	251
4	3	71.4	19	1287	1404	269
5	3	51.7	12	1564	1339	633
6	2	77	5	1899	-	615
7	1	87.5	12	-	-	375
8	3	59	17	1327	1615	610
9	2	78.3	15	1551	-	548
10	2	89.7	5	1718	-	456
11	2	92.1	7	1403	-	12
12	2	97.3	14	1338	-	596
13	3	80.3	20	1354	1563	484
14	1	98.2	8	-	-	428
15	3	94.4	13	1795	1829	512
16	2	90.4	13	1105	-	342
17	2	73.6	19	1787	-	292
18	1	82.9	7	-	-	618
<b>Detection Check (1=Detection; 0=No Detection)</b>						1



<b>Trial Number</b>			25			
<b>Number of Bursts in Trial</b>			19			
<b>Chirp Center Frequency</b>			5301			
<b>Burst</b>	<b>No. of Pulses</b>	<b>Pulse Width (us)</b>	<b>Chirp Width (MHz)</b>	<b>Pulse 1-to-2 Spacing (us)</b>	<b>Pulse 2-to-3 Spacing (us)</b>	<b>Starting Location Within Interval (ms)</b>
1	1	90	18	-	-	173
2	1	65.3	19	-	-	245
3	2	82.6	10	1756	-	127
4	2	93.9	18	1557	-	287
5	2	50.5	13	1479	-	282
6	1	68	7	-	-	176
7	3	88.4	11	1244	1076	568
8	3	66.8	11	1288	1909	448
9	2	88	12	1450	-	527
10	3	51.1	6	1797	1935	195
11	2	93.8	13	1073	-	184
12	1	83.5	10	-	-	506
13	2	96.9	12	1047	-	267
14	3	87.2	18	1521	1450	243
15	2	60.1	8	1545	-	291
16	3	98	10	1842	1402	554
17	3	57	19	1665	1732	143
18	1	74.3	14	-	-	31
19	2	57.8	10	1576	-	609
<b>Detection Check (1=Detection; 0=No Detection)</b>						1





<b>Trial Number</b>							26
<b>Number of Bursts in Trial</b>							20
<b>Chirp Center Frequency</b>							5299
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	92.8	9	1222	-	531	
2	2	52.4	8	1547	-	168	
3	3	56.8	7	1158	1184	193	
4	1	91.2	7	-	-	565	
5	3	61.2	10	1558	1664	387	
6	3	62	7	1518	1656	391	
7	2	69	5	1531	-	327	
8	2	67.3	18	1064	-	25	
9	1	94.1	5	-	-	78	
10	2	76	17	1190	-	222	
11	2	81.9	12	1815	-	96	
12	2	57.9	8	1594	-	277	
13	3	68.3	19	1427	1540	41	
14	2	53.3	7	1713	-	48	
15	2	85.3	15	1136	-	48	
16	1	65.3	20	-	-	57	
17	3	79.8	20	1010	1259	48	
18	2	56.9	20	1357	-	483	
19	2	93	9	1686	-	73	
20	2	82.8	10	1021	-	352	
Detection Check (1=Detection; 0=No Detection)							1

<b>Trial Number</b>							27
<b>Number of Bursts in Trial</b>							8
<b>Chirp Center Frequency</b>							5299
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	3	50.9	11	1106	1077	1293	
2	2	77.8	18	1836	-	1235	
3	3	60.7	5	1069	1635	1092	
4	2	77.2	13	1916	-	1343	
5	2	91.6	13	1465	-	1466	
6	2	56.8	17	1783	-	376	
7	1	59.5	20	-	-	131	
8	1	66.5	12	-	-	1024	
Detection Check (1=Detection; 0=No Detection)							1



<b>Trial Number</b>							28
<b>Number of Bursts in Trial</b>							9
<b>Chirp Center Frequency</b>							5302
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	72	9	1092	-	965	
2	2	89.2	6	1550	-	1226	
3	1	81.2	12	-	-	277	
4	2	80.6	15	1616	-	458	
5	2	62.8	10	1812	-	748	
6	1	71	8	-	-	434	
7	2	69.3	6	1027	-	1111	
8	2	77.2	13	1076	-	638	
9	2	65.4	5	1582	-	278	
Detection Check (1=Detection; 0=No Detection)							1

<b>Trial Number</b>							29
<b>Number of Bursts in Trial</b>							10
<b>Chirp Center Frequency</b>							5304
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	1	51.5	19	-	-	151	
2	1	82.3	13	-	-	1071	
3	3	78.3	8	1115	1740	646	
4	2	99	14	1101	-	709	
5	3	98.8	7	1819	945	556	
6	2	80.9	19	1033	-	567	
7	2	64	12	1041	-	581	
8	1	79	20	-	-	798	
9	1	68	8	-	-	112	
10	2	50.4	13	1587	-	26	
Detection Check (1=Detection; 0=No Detection)							1



<b>Trial Number</b>		30				
<b>Number of Bursts in Trial</b>		11				
<b>Chirp Center Frequency</b>		5299				
<b>Burst</b>	<b>No. of Pulses</b>	<b>Pulse Width (us)</b>	<b>Chirp Width (MHz)</b>	<b>Pulse 1-to-2 Spacing (us)</b>	<b>Pulse 2-to-3 Spacing (us)</b>	<b>Starting Location Within Interval (ms)</b>
1	3	57.8	5	1324	1716	82
2	2	70.1	20	1733	-	587
3	2	95.2	13	1188	-	789
4	3	84.6	20	1042	1259	1021
5	3	96.5	7	1329	1596	16
6	2	84.3	15	1606	-	708
7	3	53.5	19	1783	1458	738
8	3	74.9	5	1599	1891	466
9	3	53.8	7	1494	1467	252
10	2	60.5	14	1319	-	464
11	1	73.3	10	-	-	845
<b>Detection Check (1=Detection; 0=No Detection)</b>						1



Type 6 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulses / Hop	Pulse Width (us)	PRI (us)	1=Detection 0=No Detection
1	5300	9	1	333	1
2	5300	9	1	333	1
3	5300	9	1	333	1
4	5300	9	1	333	1
5	5300	9	1	333	1
6	5300	9	1	333	1
7	5300	9	1	333	1
8	5300	9	1	333	1
9	5300	9	1	333	1
10	5300	9	1	333	1
11	5300	9	1	333	1
12	5300	9	1	333	1
13	5300	9	1	333	1
14	5300	9	1	333	1
15	5300	9	1	333	1
16	5300	9	1	333	1
17	5300	9	1	333	0
18	5300	9	1	333	1
19	5300	9	1	333	1
20	5300	9	1	333	1
21	5300	9	1	333	1
22	5300	9	1	333	1
23	5300	9	1	333	1
24	5300	9	1	333	1
25	5300	9	1	333	1
26	5300	9	1	333	1
27	5300	9	1	333	1
28	5300	9	1	333	1
29	5300	9	1	333	1
30	5300	9	1	333	1
Detection Percentage (%)					96.667
Limit					70%
<b>Test Result</b>					<b>Complied</b>



Modulation Mode: OFDM (20MHz)

Type 1 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulse Per Second)	PRI (us)	1=Detection 0=No Detection
1	5291	1	1930.5	518	1
2	5292	23	326.2	3066	1
3	5293	19	1139.0	878	1
4	5294	12	1355.0	738	1
5	5295	4	1730.1	578	1
6	5296	8	1519.8	658	1
7	5297	15	1253.1	798	1
8	5298	6	1618.1	618	1
9	5299	14	1285.3	778	1
10	5300	3	1792.1	558	1
11	5301	13	1319.3	758	0
12	5302	9	1474.9	678	1
13	5303	7	1567.4	638	1
14	5304	17	1193.3	838	1
15	5305	10	1432.7	698	1
16	5306	-	1692.0	591	1
17	5307	-	328.1	3048	1
18	5308	-	373.4	2678	1
19	5309	-	574.4	1741	0
20	5293	-	1216.5	822	1
21	5294	-	801.3	1248	1
22	5295	-	488.5	2047	1
23	5296	-	956.0	1046	1
24	5297	-	517.6	1932	1
25	5298	-	1422.5	703	1
26	5299	-	542.0	1845	1
27	5300	-	741.3	1349	1
28	5301	-	881.8	1134	1
29	5302	-	427.4	2340	0
30	5303	-	628.9	1590	1
Detection Percentage (%)					90.000
Limit					60%
<b>Test Result</b>					<b>Complied</b>



**Type 2 Radar Statistical Performance**

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5291	2.6	221	23	1
2	5292	4.6	198	27	0
3	5293	1.1	184	29	1
4	5294	4.8	203	24	1
5	5295	2.4	162	25	1
6	5296	3.4	204	28	1
7	5297	2.3	170	27	1
8	5298	3.5	184	23	1
9	5299	4.9	150	27	1
10	5300	4.6	211	29	0
11	5301	2.9	158	23	1
12	5302	2.6	226	27	1
13	5303	1.6	204	26	0
14	5304	3.9	181	25	1
15	5305	4.6	202	24	1
16	5306	4.1	194	27	1
17	5307	2.3	193	28	1
18	5308	3.9	173	29	1
19	5309	4.3	188	23	1
20	5293	1.5	215	26	1
21	5294	4.9	227	27	1
22	5295	1.1	199	23	0
23	5296	4.5	155	29	1
24	5297	4.0	190	27	1
25	5298	2.4	151	23	1
26	5299	2.5	180	28	1
27	5300	2.5	228	23	1
28	5301	2.5	203	25	1
29	5302	1.5	188	25	1
30	5303	1.9	217	24	1
Detection Percentage (%)					86.667
Limit					60%
<b>Test Result</b>					<b>Complied</b>



**Type 3 Radar Statistical Performance**

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5291	8.0	205	16	1
2	5292	6.7	382	18	0
3	5293	8.6	418	16	1
4	5294	9.4	351	17	1
5	5295	7.4	383	18	0
6	5296	9.8	232	16	1
7	5297	9.1	377	17	1
8	5298	9.6	457	16	1
9	5299	8.0	471	18	1
10	5300	9.0	304	18	1
11	5301	8.0	316	17	0
12	5302	9.8	325	16	1
13	5303	8.0	409	17	1
14	5304	9.9	200	17	0
15	5305	8.8	458	16	1
16	5306	8.0	232	18	1
17	5307	8.3	250	16	0
18	5308	8.7	270	16	1
19	5309	7.7	350	17	0
20	5293	7.1	230	16	1
21	5294	7.3	416	18	0
22	5295	7.6	498	18	1
23	5296	7.3	286	17	1
24	5297	7.3	287	16	0
25	5298	7.5	462	17	1
26	5299	6.2	300	17	1
27	5300	6.4	323	18	0
28	5301	7.1	420	16	1
29	5302	7.2	395	18	0
30	5303	8.4	377	16	1
Detection Percentage (%)					66.667
Limit					60%
<b>Test Result</b>					<b>Complied</b>



**Type 4 Radar Statistical Performance**

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5291	18.0	242	15	1
2	5292	19.9	279	12	0
3	5293	12.9	487	14	1
4	5294	15.0	452	13	1
5	5295	16.3	230	12	1
6	5296	19.8	238	13	1
7	5297	18.2	420	16	1
8	5298	16.3	452	15	1
9	5299	14.2	495	12	1
10	5300	17.8	228	16	1
11	5301	19.1	211	16	0
12	5302	18.4	283	15	1
13	5303	11.8	411	12	1
14	5304	14.2	284	13	0
15	5305	13.9	202	12	1
16	5306	17.8	340	14	0
17	5307	15.6	290	16	1
18	5308	14.6	250	16	1
19	5309	14.4	484	15	1
20	5293	18.9	387	13	1
21	5294	11.1	348	15	1
22	5295	13.8	291	16	1
23	5296	14.3	295	12	0
24	5297	12.5	300	12	1
25	5298	12.5	322	14	0
26	5299	12.5	383	13	1
27	5300	15.7	322	16	1
28	5301	19.8	469	13	1
29	5302	18.6	406	15	1
30	5303	15.9	238	14	1
Detection Percentage (%)					80.000
Limit					60%
<b>Test Result</b>					<b>Complied</b>





**Total Type 1~4 Radar Statistical Performance**

<b>Radar Type #</b>	<b>Detection Percentage (%)</b>
1	90.000
2	86.667
3	66.667
4	80.000
Aggregate (Radar Types 1-4)	80.833
Limit	80%
<b>Test Result</b>	<b>Complied</b>



**Type 5 Radar Statistical Performance**

Trial #	Test Freq. (MHz)	1=Detection 0=No Detection	Trial #	Test Freq. (MHz)	1=Detection 0=No Detection	Trial #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5294	1	11	5303	1	21	5296	1
2	5298	1	12	5305	1	22	5294	1
3	5302	1	13	5307	1	23	5302	1
4	5305	1	14	5295	1	24	5304	1
5	5307	1	15	5297	0	25	5306	1
6	5299	1	16	5300	1	26	5293	1
7	5297	1	17	5303	1	27	5296	1
8	5295	1	18	5306	1	28	5299	1
9	5293	0	19	5300	1	29	5301	1
10	5301	1	20	5298	1	30	5304	1
Detection Percentage (%)								93.333
Limit								80%
<b>Test Result</b>								<b>Complied</b>



<b>Trial Number</b>							1
<b>Number of Bursts in Trial</b>							8
<b>Chirp Center Frequency</b>							5294
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	1	62.3	8	-	-	346	
2	2	51.2	15	1745	-	1205	
3	3	93.6	5	957	1634	674	
4	3	68.2	12	1668	1573	384	
5	3	83.1	8	1188	1888	876	
6	1	56.7	18	-	-	376	
7	2	60.6	18	1874	-	1409	
8	3	75.5	13	1263	1683	1378	
Detection Check (1=Detection; 0=No Detection)							1

<b>Trial Number</b>							2
<b>Number of Bursts in Trial</b>							9
<b>Chirp Center Frequency</b>							5298
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	1	99.6	13	-	-	217	
2	2	54.8	15	1727	-	982	
3	3	91.1	15	1120	1826	941	
4	2	76.2	7	1638	-	477	
5	1	88.9	13	-	-	259	
6	1	83	9	-	-	892	
7	1	83.9	12	-	-	320	
8	2	55.9	15	1613	-	445	
9	1	96.1	13	-	-	779	
Detection Check (1=Detection; 0=No Detection)							1



<b>Trial Number</b>							3
<b>Number of Bursts in Trial</b>							10
<b>Chirp Center Frequency</b>							5302
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	82	6	1246	-	1017	
2	1	93.2	13	-	-	760	
3	2	61.3	13	1175	-	327	
4	1	52.8	8	-	-	824	
5	3	70.6	19	929	1076	115	
6	1	80.3	17	-	-	325	
7	1	83.2	15	-	-	679	
8	2	94	9	1805	-	888	
9	2	67	8	1486	-	849	
10	1	56.4	20	-	-	813	
Detection Check (1=Detection; 0=No Detection)							1

<b>Trial Number</b>							4
<b>Number of Bursts in Trial</b>							11
<b>Chirp Center Frequency</b>							5305
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	3	90.5	8	1149	1612	35	
2	3	54.5	8	1094	1525	1014	
3	1	57.1	18	-	-	827	
4	2	98.6	20	1292	-	83	
5	2	62.9	12	1433	-	676	
6	1	71.1	15	-	-	708	
7	1	96.7	5	-	-	711	
8	1	64.3	5	-	-	484	
9	3	61.2	8	1075	1524	444	
10	2	79.2	13	1877	-	797	
11	2	79.3	20	1313	-	288	
Detection Check (1=Detection; 0=No Detection)							1



<b>Trial Number</b>							5
<b>Number of Bursts in Trial</b>							12
<b>Chirp Center Frequency</b>							5307
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	1	89.5	13	-	-	20	
2	3	71.8	11	1446	1549	117	
3	3	53.7	15	1100	1517	485	
4	2	99.3	11	1571	-	334	
5	3	56.8	6	1594	1280	468	
6	1	97.4	11	-	-	213	
7	2	67.6	13	1831	-	14	
8	3	77.1	8	1683	1337	267	
9	1	98.5	17	-	-	544	
10	3	58.3	13	1924	1829	159	
11	1	98.4	14	-	-	380	
12	1	79.3	11	-	-	257	
Detection Check (1=Detection; 0=No Detection)							1

<b>Trial Number</b>							6
<b>Number of Bursts in Trial</b>							13
<b>Chirp Center Frequency</b>							5299
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	53.8	14	1631	-	768	
2	1	90	17	-	-	530	
3	3	87.2	18	1115	1297	157	
4	2	82	11	1728	-	892	
5	3	69.8	7	1641	1779	196	
6	2	63.1	20	1836	-	331	
7	1	59.8	6	-	-	495	
8	3	78.5	19	941	1921	546	
9	1	85.7	6	-	-	219	
10	3	67.7	9	1834	1450	534	
11	2	84.5	15	1376	-	282	
12	2	99.3	13	1570	-	486	
13	2	80.2	8	1088	-	67	
Detection Check (1=Detection; 0=No Detection)							1



<b>Trial Number</b>							7
<b>Number of Bursts in Trial</b>							14
<b>Chirp Center Frequency</b>							5297
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	3	80.8	10	1061	1124	389	
2	2	81	9	1479	-	234	
3	2	87.6	17	1247	-	577	
4	2	94.7	18	1041	-	572	
5	2	78	18	1267	-	313	
6	1	95.5	14	-	-	52	
7	2	97.6	15	1215	-	57	
8	3	88	9	1349	1598	171	
9	2	69.7	17	1711	-	769	
10	2	96.5	17	1431	-	168	
11	2	96.9	6	1871	-	124	
12	3	66.4	10	1824	1468	766	
13	1	78.8	10	-	-	537	
14	3	87.6	6	1080	1159	714	
<b>Detection Check (1=Detection; 0=No Detection)</b>							1

<b>Trial Number</b>							8
<b>Number of Bursts in Trial</b>							15
<b>Chirp Center Frequency</b>							5295
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	71.8	14	1432	-	573	
2	2	65.9	19	1762	-	314	
3	2	74.7	6	1754	-	377	
4	3	81.7	5	1133	974	216	
5	3	57.8	14	1176	1712	129	
6	1	80.6	6	-	-	341	
7	3	99.3	17	1268	1876	165	
8	1	79.8	12	-	-	618	
9	3	83	11	990	1738	589	
10	3	71.5	11	1473	1255	6	
11	1	77.4	11	-	-	127	
12	2	84.8	12	1390	-	515	
13	2	64.6	12	1653	-	148	
14	2	92.9	12	1881	-	519	
15	1	71.3	6	-	-	301	
<b>Detection Check (1=Detection; 0=No Detection)</b>							1



<b>Trial Number</b>							9
<b>Number of Bursts in Trial</b>							16
<b>Chirp Center Frequency</b>							5293
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	55.4	9	1318	-	383	
2	2	80.8	18	1710	-	534	
3	1	88.8	9	-	-	495	
4	2	78	12	1818	-	92	
5	1	78.5	12	-	-	108	
6	2	55	13	1219	-	123	
7	2	75.9	20	1004	-	123	
8	2	70.9	7	1820	-	546	
9	2	71.7	18	1559	-	476	
10	2	73.9	19	1232	-	235	
11	1	59.2	20	-	-	424	
12	1	55.7	9	-	-	391	
13	3	60.9	12	1144	1370	198	
14	2	60.8	14	990	-	16	
15	3	60.6	19	1526	1326	695	
16	2	89	5	1029	-	131	
<b>Detection Check (1=Detection; 0=No Detection)</b>							0

<b>Trial Number</b>							10
<b>Number of Bursts in Trial</b>							17
<b>Chirp Center Frequency</b>							5301
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	72.1	14	1119	-	488	
2	3	81.4	13	1142	961	451	
3	3	92.9	18	991	1147	565	
4	3	81.3	18	1793	1369	285	
5	3	76.4	20	1005	1793	79	
6	1	61.6	18	-	-	503	
7	1	66.6	19	-	-	181	
8	1	53.7	12	-	-	416	
9	2	58	8	1477	-	107	
10	2	64	18	1791	-	141	
11	2	80.3	12	1304	-	516	
12	3	77.3	5	1039	1668	372	
13	2	97.6	11	1593	-	163	
14	1	73	6	-	-	147	
15	3	65.1	8	1097	1927	102	
16	2	59.5	13	1569	-	182	
17	1	88.2	19	-	-	653	
<b>Detection Check (1=Detection; 0=No Detection)</b>							1



<b>Trial Number</b>				11		
<b>Number of Bursts in Trial</b>				18		
<b>Chirp Center Frequency</b>				5303		
<b>Burst</b>	<b>No. of Pulses</b>	<b>Pulse Width (us)</b>	<b>Chirp Width (MHz)</b>	<b>Pulse 1-to-2 Spacing (us)</b>	<b>Pulse 2-to-3 Spacing (us)</b>	<b>Starting Location Within Interval (ms)</b>
1	2	56.1	12	1219	-	273
2	1	83.3	7	-	-	298
3	3	79.6	17	1218	1897	159
4	2	95.8	7	1672	-	480
5	2	79.6	8	920	-	387
6	2	88.9	11	1779	-	5
7	2	81.4	8	1645	-	201
8	2	92	6	1454	-	80
9	3	96	13	1518	1121	192
10	2	65.6	11	1798	-	349
11	2	98.7	5	1360	-	416
12	2	52.9	15	1140	-	652
13	2	76.5	8	1032	-	92
14	3	73.8	18	1719	1383	502
15	3	83.7	10	1270	1216	343
16	2	89.6	10	1141	-	108
17	2	67.2	20	1455	-	272
18	3	55.7	14	1444	1475	566
<b>Detection Check (1=Detection; 0=No Detection)</b>						1





<b>Trial Number</b>			12			
<b>Number of Bursts in Trial</b>			19			
<b>Chirp Center Frequency</b>			5305			
<b>Burst</b>	<b>No. of Pulses</b>	<b>Pulse Width (us)</b>	<b>Chirp Width (MHz)</b>	<b>Pulse 1-to-2 Spacing (us)</b>	<b>Pulse 2-to-3 Spacing (us)</b>	<b>Starting Location Within Interval (ms)</b>
1	2	70.6	15	1040	-	575
2	2	72.9	13	1460	-	178
3	3	88.9	5	1250	1629	191
4	3	60.3	20	1757	1822	468
5	3	92.1	19	1845	1198	476
6	1	73	5	-	-	532
7	1	50.4	15	-	-	69
8	1	66.4	10	-	-	333
9	1	79.1	18	-	-	437
10	1	71.6	20	-	-	424
11	2	95.6	13	1229	-	498
12	1	74.4	9	-	-	363
13	3	55.6	17	1263	1724	123
14	2	78.3	13	1507	-	37
15	3	54.1	13	1325	1249	192
16	2	67.1	18	1584	-	311
17	2	65.8	9	1195	-	243
18	2	50.1	12	1755	-	48
19	2	87.7	18	1359	-	180
<b>Detection Check (1=Detection; 0=No Detection)</b>						1



<b>Trial Number</b>				13		
<b>Number of Bursts in Trial</b>				20		
<b>Chirp Center Frequency</b>				5307		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)
1	3	79.5	7	1808	1550	274
2	2	76.7	20	1632	-	573
3	3	85.9	12	1305	1496	18
4	3	86.6	14	968	1172	133
5	2	74.9	14	1348	-	48
6	3	82.2	20	1692	1310	156
7	2	53.9	13	1342	-	45
8	3	62.7	15	1839	1651	76
9	2	86.2	6	1165	-	91
10	1	63.1	11	-	-	391
11	2	82.4	6	1416	-	107
12	1	95.8	18	-	-	248
13	2	75.7	9	993	-	482
14	3	70.1	18	1563	1020	354
15	3	85.8	13	1420	1084	446
16	1	63.2	7	-	-	265
17	1	75.1	11	-	--	147
18	2	69.5	5	1802	-	256
19	1	51.8	19	-	-	422
20	2	62.3	5	1449	-	304
Detection Check (1=Detection; 0=No Detection)						1

<b>Trial Number</b>				14		
<b>Number of Bursts in Trial</b>				8		
<b>Chirp Center Frequency</b>				5295		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)
1	3	74.9	5	1314	1466	1289
2	2	83.9	19	1442	-	1436
3	2	55.8	6	1147	-	240
4	2	59.4	6	1490	-	1455
5	2	78.2	15	1665	-	1312
6	2	57.3	15	1357	-	264
7	2	76.2	11	1651	-	255
8	3	59	7	1460	1109	1410
Detection Check (1=Detection; 0=No Detection)						1



<b>Trial Number</b>							15
<b>Number of Bursts in Trial</b>							9
<b>Chirp Center Frequency</b>							5297
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	3	77.7	19	1046	1568	17	
2	2	98.2	20	1628	-	877	
3	2	95.3	8	1540	-	1066	
4	2	78.8	15	1341	-	822	
5	2	52.8	20	988	-	1020	
6	2	65.2	9	1480	-	602	
7	2	99.5	10	1867	-	884	
8	2	79.5	13	1148	-	342	
9	3	50.6	13	1030	1525	1321	
Detection Check (1=Detection; 0=No Detection)							0

<b>Trial Number</b>							16
<b>Number of Bursts in Trial</b>							10
<b>Chirp Center Frequency</b>							5300
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	97.5	11	1357	-	764	
2	2	91.8	13	1896	-	298	
3	1	78.5	5	-	-	1117	
4	1	60.1	11	-	-	1069	
5	2	96.2	10	975	-	1157	
6	2	56.6	18	1626	-	701	
7	1	77.1	20	-	-	323	
8	2	96.3	8	1682	-	307	
9	2	52.2	13	1017	-	217	
10	1	92.8	15	-	-	316	
Detection Check (1=Detection; 0=No Detection)							1



<b>Trial Number</b>							17
<b>Number of Bursts in Trial</b>							11
<b>Chirp Center Frequency</b>							5303
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	57.3	8	1220	-	792	
2	3	73.1	5	1717	1679	845	
3	2	54.1	14	967	-	112	
4	2	98.8	19	1137	-	715	
5	3	85.5	8	1068	960	301	
6	2	78.5	7	1387	-	827	
7	2	77.9	12	1869	-	506	
8	1	81.9	10	-	-	549	
9	1	50.4	9	-	-	464	
10	1	75.2	8	-	-	790	
11	2	92.7	7	1770	-	967	
Detection Check (1=Detection; 0=No Detection)							1

<b>Trial Number</b>							18
<b>Number of Bursts in Trial</b>							12
<b>Chirp Center Frequency</b>							5306
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	79.1	6	1042	-	793	
2	3	55.7	9	1327	1744	159	
3	1	95	20	-	-	734	
4	1	88.4	5	-	-	523	
5	1	92.3	15	-	-	546	
6	1	93.6	6	-	-	208	
7	2	95.1	12	1044	-	894	
8	1	59.5	17	-	-	666	
9	2	98.7	17	1422	-	640	
10	2	65.1	5	1104	-	320	
11	1	60.2	5	-	-	60	
12	1	88.7	8	-	-	823	
Detection Check (1=Detection; 0=No Detection)							1



<b>Trial Number</b>							19
<b>Number of Bursts in Trial</b>							13
<b>Chirp Center Frequency</b>							5300
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	1	53.9	10	-	-	226	
2	2	82.6	13	992	-	854	
3	1	87.7	8	-	-	303	
4	3	69	12	1696	1606	528	
5	1	68.6	12	-	-	220	
6	3	76.5	13	1333	1468	389	
7	2	95.8	17	1380	-	57	
8	2	55.6	19	1147	-	334	
9	2	78.6	14	1268	-	128	
10	2	65.4	17	1231	-	913	
11	2	76.6	18	1883	-	518	
12	1	93.2	6	-	-	596	
13	2	50.2	13	1836	-	61	
Detection Check (1=Detection; 0=No Detection)							1

<b>Trial Number</b>							20
<b>Number of Bursts in Trial</b>							14
<b>Chirp Center Frequency</b>							5298
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	1	60.9	13	-	-	142	
2	2	81.7	15	1831	-	522	
3	2	78.5	5	1396	-	790	
4	2	98.2	6	1652	-	3	
5	1	64.1	12	-	-	414	
6	3	53	18	1862	1902	157	
7	2	62.3	15	1490	-	248	
8	2	87	11	1411	-	576	
9	2	78.4	8	1090	-	737	
10	2	87.2	7	967	-	343	
11	3	71	13	1662	1841	105	
12	2	77.2	5	1557	-	601	
13	1	94.4	15	-	-	108	
14	1	90.6	13	-	-	506	
Detection Check (1=Detection; 0=No Detection)							1



<b>Trial Number</b>							21
<b>Number of Bursts in Trial</b>							15
<b>Chirp Center Frequency</b>							5296
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	3	76.5	8	1870	1326	385	
2	2	95.3	13	1162	-	73	
3	3	58.9	9	1586	1909	742	
4	2	73.1	13	1460	-	330	
5	2	73.1	12	1488	-	25	
6	2	75.1	5	1331	-	418	
7	3	98.5	11	936	1532	214	
8	3	72.5	13	1110	1903	387	
9	3	67.4	12	1567	1513	80	
10	2	76.1	12	1005	-	277	
11	2	94.3	17	1413	-	314	
12	2	72.8	12	1778	-	66	
13	2	90.9	14	1793	-	147	
14	3	94.8	11	1012	1742	441	
15	3	95	12	912	1641	609	
Detection Check (1=Detection; 0=No Detection)							1

<b>Trial Number</b>							22
<b>Number of Bursts in Trial</b>							16
<b>Chirp Center Frequency</b>							5294
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	1	96.7	9	-	-	308	
2	2	78.3	13	1045	-	27	
3	1	56.5	12	-	-	74	
4	3	88.5	14	1119	1020	629	
5	2	62.4	9	1436	-	548	
6	2	78.2	5	1147	-	341	
7	3	76.8	14	1069	1575	360	
8	2	91.6	18	978	-	602	
9	2	93.7	5	1130	-	623	
10	2	97.4	8	1100	-	256	
11	3	90.1	6	1629	1375	108	
12	2	79.9	18	1809	-	183	
13	2	83	10	1370	-	477	
14	2	89.1	13	1239	-	484	
15	2	58.3	8	1321	-	276	
16	1	85.2	13	-	-	22	
Detection Check (1=Detection; 0=No Detection)							1



<b>Trial Number</b>			23			
<b>Number of Bursts in Trial</b>			17			
<b>Chirp Center Frequency</b>			5302			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)
1	3	60	10	1097	1748	56
2	3	66.3	13	1391	1430	421
3	2	88.5	15	1040	-	583
4	2	72.1	8	1526	-	161
5	1	72.3	8	-	-	450
6	2	67.3	7	1022	-	48
7	2	56.1	12	1325	-	661
8	1	83.5	11	-	-	695
9	3	99.4	13	1490	938	405
10	1	54.2	12	-	-	126
11	3	92.7	17	1251	1631	365
12	3	95.1	17	1741	1162	57
13	2	84	9	1597	-	167
14	1	68.5	18	-	-	512
15	1	76.5	20	-	-	185
16	3	86.6	11	1774	1875	457
17	2	62.2	9	1563	-	492
<b>Detection Check (1=Detection; 0=No Detection)</b>						1

<b>Trial Number</b>			24			
<b>Number of Bursts in Trial</b>			18			
<b>Chirp Center Frequency</b>			5304			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)
1	1	86.6	19	-	-	621
2	2	95.3	17	926	-	128
3	1	76.2	12	-	-	251
4	3	71.4	19	1287	1404	269
5	3	51.7	12	1564	1339	633
6	2	77	5	1899	-	615
7	1	87.5	12	-	-	375
8	3	59	17	1327	1615	610
9	2	78.3	15	1551	-	548
10	2	89.7	5	1718	-	456
11	2	92.1	7	1403	-	12
12	2	97.3	14	1338	-	596
13	3	80.3	20	1354	1563	484
14	1	98.2	8	-	-	428
15	3	94.4	13	1795	1829	512
16	2	90.4	13	1105	-	342
17	2	73.6	19	1787	-	292
18	1	82.9	7	-	-	618
<b>Detection Check (1=Detection; 0=No Detection)</b>						1



<b>Trial Number</b>			25			
<b>Number of Bursts in Trial</b>			19			
<b>Chirp Center Frequency</b>			5306			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)
1	1	90	18	-	-	173
2	1	65.3	19	-	-	245
3	2	82.6	10	1756	-	127
4	2	93.9	18	1557	-	287
5	2	50.5	13	1479	-	282
6	1	68	7	-	-	176
7	3	88.4	11	1244	1076	568
8	3	66.8	11	1288	1909	448
9	2	88	12	1450	-	527
10	3	51.1	6	1797	1935	195
11	2	93.8	13	1073	-	184
12	1	83.5	10	-	-	506
13	2	96.9	12	1047	-	267
14	3	87.2	18	1521	1450	243
15	2	60.1	8	1545	-	291
16	3	98	10	1842	1402	554
17	3	57	19	1665	1732	143
18	1	74.3	14	-	-	31
19	2	57.8	10	1576	-	609
<b>Detection Check (1=Detection; 0=No Detection)</b>						1





<b>Trial Number</b>				26		
<b>Number of Bursts in Trial</b>				20		
<b>Chirp Center Frequency</b>				5293		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)
1	2	92.8	9	1222	-	531
2	2	52.4	8	1547	-	168
3	3	56.8	7	1158	1184	193
4	1	91.2	7	-	-	565
5	3	61.2	10	1558	1664	387
6	3	62	7	1518	1656	391
7	2	69	5	1531	-	327
8	2	67.3	18	1064	-	25
9	1	94.1	5	-	-	78
10	2	76	17	1190	-	222
11	2	81.9	12	1815	-	96
12	2	57.9	8	1594	-	277
13	3	68.3	19	1427	1540	41
14	2	53.3	7	1713	-	48
15	2	85.3	15	1136	-	48
16	1	65.3	20	-	-	57
17	3	79.8	20	923	1259	48
18	2	56.9	20	1357	-	483
19	2	93	9	1686	-	73
20	2	82.8	10	944	-	352
Detection Check (1=Detection; 0=No Detection)						1

<b>Trial Number</b>				27		
<b>Number of Bursts in Trial</b>				8		
<b>Chirp Center Frequency</b>				5296		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)
1	3	50.9	11	1106	1077	1293
2	2	77.8	18	1836	-	1235
3	3	60.7	5	1069	1635	1092
4	2	77.2	13	1916	-	1343
5	2	91.6	13	1465	-	1466
6	2	56.8	17	1783	-	376
7	1	59.5	20	-	-	131
8	1	66.5	12	-	-	1024
Detection Check (1=Detection; 0=No Detection)						1



<b>Trial Number</b>							28
<b>Number of Bursts in Trial</b>							9
<b>Chirp Center Frequency</b>							5299
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	72	9	1092	-	965	
2	2	89.2	6	1550	-	1226	
3	1	81.2	12	-	-	277	
4	2	80.6	15	1616	-	458	
5	2	62.8	10	1812	-	748	
6	1	71	8	-	-	434	
7	2	69.3	6	1027	-	1111	
8	2	77.2	13	1076	-	638	
9	2	65.4	5	1582	-	278	
Detection Check (1=Detection; 0=No Detection)							1

<b>Trial Number</b>							29
<b>Number of Bursts in Trial</b>							10
<b>Chirp Center Frequency</b>							5301
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	1	51.5	19	-	-	151	
2	1	82.3	13	-	-	1071	
3	3	78.3	8	1115	1740	646	
4	2	99	14	1101	-	709	
5	3	98.8	7	1819	945	556	
6	2	80.9	19	922	-	567	
7	2	64	12	953	-	581	
8	1	79	20	-	-	798	
9	1	68	8	-	-	112	
10	2	50.4	13	1587	-	26	
Detection Check (1=Detection; 0=No Detection)							1



<b>Trial Number</b>		30				
<b>Number of Bursts in Trial</b>		11				
<b>Chirp Center Frequency</b>		5304				
<b>Burst</b>	<b>No. of Pulses</b>	<b>Pulse Width (us)</b>	<b>Chirp Width (MHz)</b>	<b>Pulse 1-to-2 Spacing (us)</b>	<b>Pulse 2-to-3 Spacing (us)</b>	<b>Starting Location Within Interval (ms)</b>
1	3	57.8	5	1324	1716	82
2	2	70.1	20	1733	-	587
3	2	95.2	13	1188	-	789
4	3	84.6	20	1042	1259	1021
5	3	96.5	7	1329	1596	16
6	2	84.3	15	1606	-	708
7	3	53.5	19	1783	1458	738
8	3	74.9	5	1599	1891	466
9	3	53.8	7	1494	1467	252
10	2	60.5	14	1319	-	464
11	1	73.3	10	-	-	845
<b>Detection Check (1=Detection; 0=No Detection)</b>						1



**Type 6 Radar Statistical Performance**

Trial #	Test Freq. (MHz)	Pulses / Hop	Pulse Width (us)	PRI (us)	1=Detection 0=No Detection
1	5300	9	1	333	1
2	5300	9	1	333	0
3	5300	9	1	333	1
4	5300	9	1	333	1
5	5300	9	1	333	1
6	5300	9	1	333	1
7	5300	9	1	333	1
8	5300	9	1	333	1
9	5300	9	1	333	1
10	5300	9	1	333	1
11	5300	9	1	333	1
12	5300	9	1	333	0
13	5300	9	1	333	1
14	5300	9	1	333	1
15	5300	9	1	333	1
16	5300	9	1	333	1
17	5300	9	1	333	1
18	5300	9	1	333	1
19	5300	9	1	333	1
20	5300	9	1	333	0
21	5300	9	1	333	1
22	5300	9	1	333	1
23	5300	9	1	333	1
24	5300	9	1	333	1
25	5300	9	1	333	1
26	5300	9	1	333	1
27	5300	9	1	333	1
28	5300	9	1	333	1
29	5300	9	1	333	1
30	5300	9	1	333	1
Detection Percentage (%)					90.000
Limit					70%
<b>Test Result</b>					<b>Complied</b>



## 4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSV40	101026	9kHz-40GHz	Sep. 15, 2015	DF01-CB
Vector Signal generator	R&S	SMU200A	102782	25MHz-6GHz	Nov. 06, 2015	DF01-CB
Horn Antenna	COM-POWER	AH-118	071187	1GHz – 18GHz	Jul. 24, 2015	DF01-CB
Horn Antenna	COM-POWER	AH-118	071042	1GHz – 18GHz	Dec. 10, 2015	DF01-CB
RF Power Divider	ANAREN	2 Way	DFS-01-DV-02	1GHz ~ 6GHz	Nov. 07, 2015	DF01-CB
RF Power Divider	MTJ	2 Way	DFS-01-DV-03	1GHz ~ 6GHz	Nov. 07, 2015	DF01-CB
RF Power Divider	ANAREN	4 Way	DFS-01-DV-01	1GHz ~ 6GHz	Nov. 07, 2015	DF01-CB
RF Cable-high	Woken	RG402	High Cable-57	1 GHz –18 GHz	Nov. 02, 2015	DF01-CB
RF Cable-high	Woken	RG402	High Cable-58	1 GHz –18 GHz	Nov. 02, 2015	DF01-CB

Note: Calibration Interval of instruments listed above is one year.



## **5 Measurement Uncertainty**

<b>Test Items</b>	<b>Uncertainty</b>	<b>Remark</b>
Radiated Emission	2.9 dB	Confidence levels of 95%

## Appendix A. Test Photos

## 1. Photographs of Dynamic Frequency Selection Test Configuration

FRONT VIEW



REAR VIEW

