FCC DFS TEST REPORT

FCC ID	:	**U8G-P1835**
Equipment	:	**PEPWAVE / peplink Wireless Product**
Brand Name	:	**PEPWAVE / peplink**
Model Name	:	**UBR Go** **UBR Rugged** **UBR Go LTEA** **UBR Rugged LTEA** **UBR-GO-LTEA-R-T-PRM** **UBR-GO-LTEA-US-T-PRM** **UBR-RUG-LTEA-US-T-PRM** **UBR-RUG-LTEA-R-T-PRM** **Pepwave UBR Go LTEA** **Pepwave UBR Rugged LTEA** **MAX Transit** **MAX Transit LTEA** **MAX Transit Pro E**
Applicant	:	**PISMO LABS TECHNOLOGY LIMITED** **A8, 5/F, HK Spinners Industrial Building, Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Hong Kong**
Manufacturer	:	**PISMO LABS TECHNOLOGY LIMITED** **A8, 5/F, HK Spinners Industrial Building, Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Hong Kong**
Standard	:	**FCC Part 15 Subpart E**

The product was received on Feb. 01, 2021 and testing was started from Mar. 03, 2021 and completed on Aug. 27, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in FCC Part 15 Subpart E 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. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

Table of Contents

History of this test report

Report No.	Version	Description	Issue Date
FZ111402	01	Initial issue of report	Oct. 14, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	7.8.1	U-NII Detection Bandwidth	Pass	-
3.3	7.8.2	Channel Availability Check Time	Pass	-
3.4	7.8.3	Channel Move Time	Pass	-
		Channel Closing Transmission Time	Pass	-
		Non-Occupancy Period Test	Pass	-
3.5	7.8.4	Statistical Performance Check	Pass	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Lewis Ho

Report Producer: Lucy Wu

1 General Description

1.1 Feature of Equipment Under Test

Wi-Fi 2.4GHz 802.11b/g/n, and Wi-Fi 5GHz 802.11a/n/ac

Product Specification subjective to this standard	
Sample 1	UBR go
Sample 2	UBR rugged
Antenna Type	Omni-directional Antenna

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.
2. All test items were performed with Sample 2.

1.2 Modification of EUT

No modifications are made to the EUT during all test items.

1.3 Testing Site

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	DFS02-HY

1.4 Applied Standards

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

- FCC Part 15 Subpart E
- FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02
- FCC KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.

1.5 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	HW / FW Version	Power Cord
1.	Notebook	acer	Aspire A515-54	PD9AX201NG	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2 Requirements and Parameters for DFS Test

2.1 Summary of Dynamic Frequency Selection Test

UNII	Description	Limit
U-NII Band 2-C 5470-5725 MHz	Channel Availability Check Time	> 60sec
	U-NII Detection Bandwidth	> 100% of the U-NII 99% transmission power bandwidth
	Statistical Performance Check	Type 1,2,3,4 >= 60% Type 1~4 and 5 >= 80% Type 6 >= 70%
	Channel Move Time	< 10 sec
	Channel Closing Transmission Time	< 200 ms + aggregate of 60 ms over remaining 10 s period
	Non-Occupancy Period Test	> 30 minutes

2.2 Applicability of DFS Requirements

EUT is considered as a master device.

Table 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

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
DFS Detection Threshold	Yes	Not required	Yes
Channel Closing Transmission Time	Yes	Yes	Yes
Channel Move Time	Yes	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required	Yes
Client Beacon Test	N/A	Yes	Yes

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 (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.

2.3 DFS Detection Thresholds

Table 3 below provides the DFS Detection Thresholds for Master Devices as well as Client Devices incorporating In-Service Monitoring.

Table 3: DFS Detection Thresholds for Master Devices

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

The radar *Detection Threshold*, lowest antenna gain is the parameter of Interference radar DFS detection threshold, The Interference Detection Threshold is the (-62dBm) + (4.41) [dBi]+ 1 dB= -56.59 dBm.

2.4 DFS Response requirement values

Table 4 provides the response requirements for Master and Client Devices incorporating DFS.

Table 4: 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 99% 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 *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.	

2.5 Short Pulse Radar Test Waveforms

Radar Type 0 was used in the evaluation of the Client device for the purpose of measuring the Channel Move Time and the Channel Closing Transmission Time.

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.
1	1	Test A Test B	$\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$	60%	30
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.

Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a
Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A

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.

The aggregate is the average of the percentage of successful detections of short pulse radar types 1-4.

Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number (1 to 23)	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
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	1355.0	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.5	858
19	1139.0	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

2.6 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

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse radar test signal. If more than 30 waveforms are used for the Long Pulse radar test signal, then each additional waveform must also be unique and not repeated from the previous waveforms. Each waveform is defined as follows:

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

(1) The transmission period for the Long Pulse Radar test signal is 12 seconds.

(2) 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.

(3) 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.

(4) 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.

(5) 5) Each pulse has a linear frequency modulated chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a **transmission period** will have the same chirp width. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz

(6) 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.

(7) The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst_Count. Each interval is of length (12,000,000 / Burst_Count) microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and [(12,000,000 / Burst_Count) – (Total Burst Length) + (One Random PRI Interval)] microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen independently.

A representative example of a Long Pulse radar test waveform:

(1) The total test signal length is 12 seconds.

(2) 8 Bursts are randomly generated for the Burst_Count.

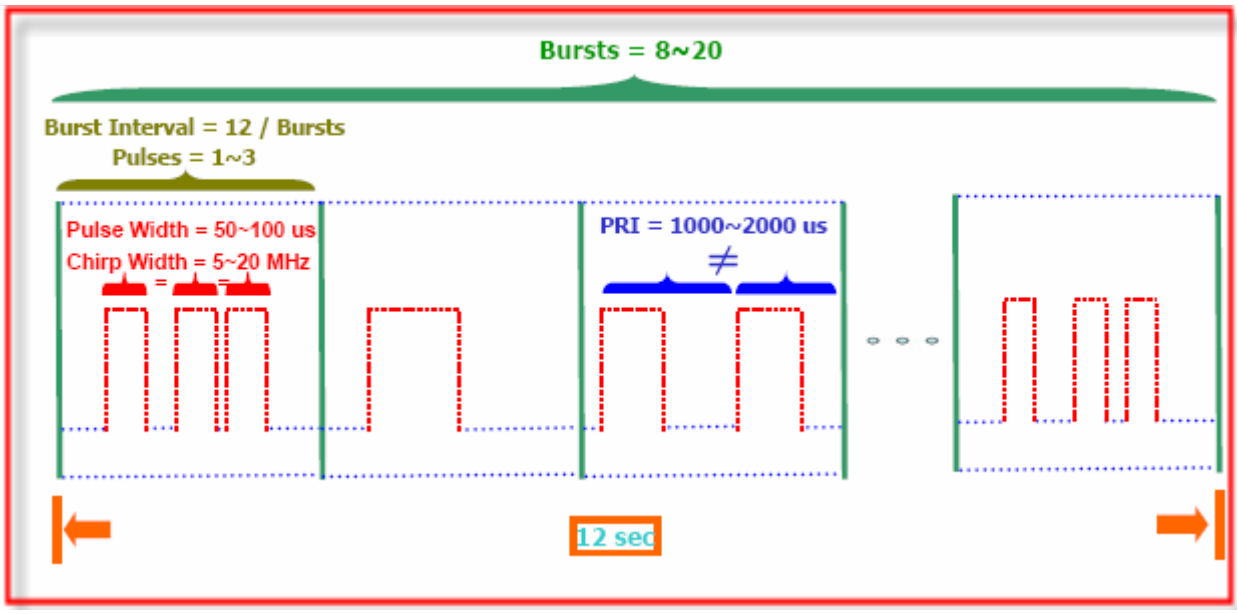
(3) Burst 1 has 2 randomly generated pulses.

(4) The pulse width (for both pulses) is randomly selected to be 75 microseconds.

(5) The PRI is randomly selected to be at 1213 microseconds.

(6) Bursts 2 through 8 are generated using steps 3 – 5.

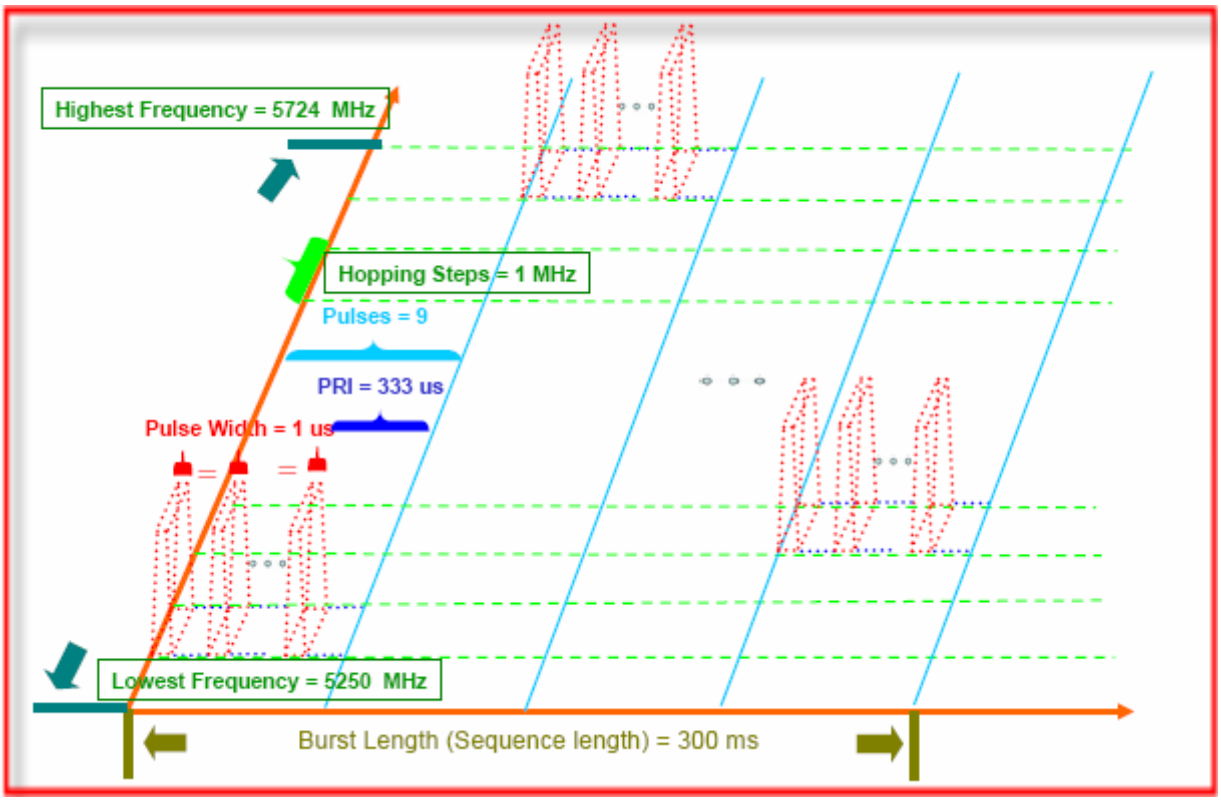
(7) Each Burst is contained in even intervals of 1,500,000 microseconds. The starting location for Pulse 1, Burst 1 is randomly generated (1 to 1,500,000 minus the total Burst 1 length + 1 random PRI interval) at the 325,001 microsecond step. Bursts 2 through 8 randomly fall in successive 1,500,000 microsecond intervals (i.e. Burst 2 falls in the 1,500,001 – 3,000,000 microsecond range).



2.7 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 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.



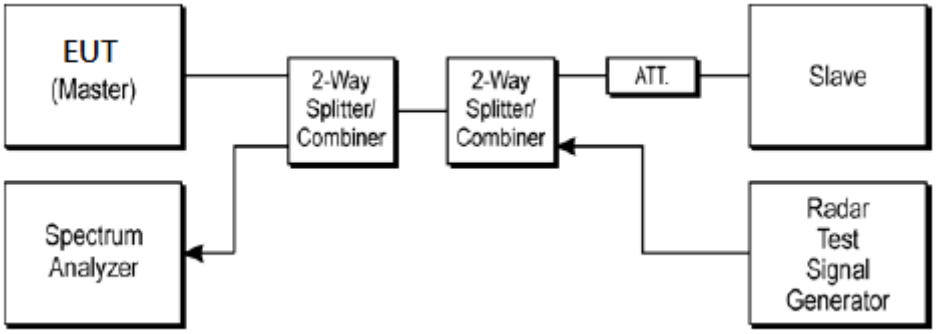
3 Calibration Setup and DFS Test Results

3.1 Calibration of Radar Waveform

3.1.1 Radar Waveform Calibration Procedure

The Interference Radar Detection Threshold Level is (-62) + (4.41) [dBi] + 1dB = -56.59 dBm that had been taken into account the output power range and antenna gain. The following equipment setup was used to calibrate the conducted Radar Waveform. A vector signal generator was utilized to establish the test signal level for radar type 0~6. During this process there were no transmissions by either the Master or Client Device. The spectrum analyzer was switched to the zero span (Time Domain) at the frequency of the Radar Waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz to measure the radar waveform. The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was (-62) + (4.41) [dBi] + 1dB = -56.59 dBm. Capture the spectrum analyzer plots on radar waveform.

3.1.2 Conducted Calibration Setup



3.1.3 Calibration Deviation

There is no deviation with the original standard.

3.1.4 Radar Waveform Calibration Result

<20MHz / 5500MHz>

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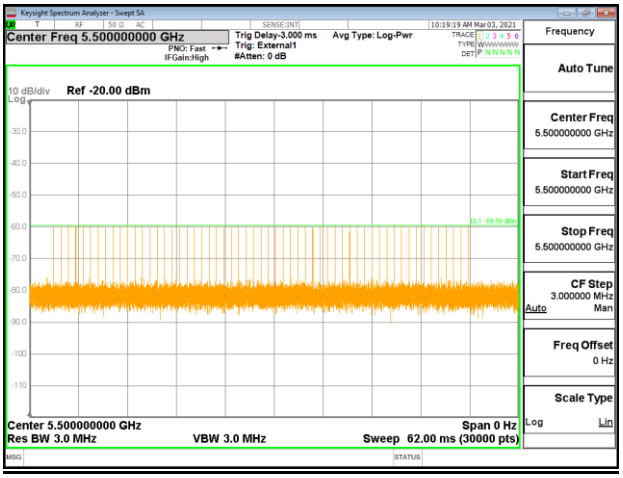	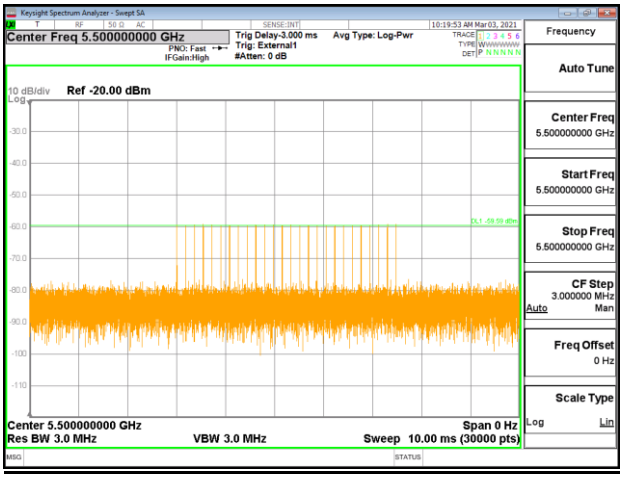
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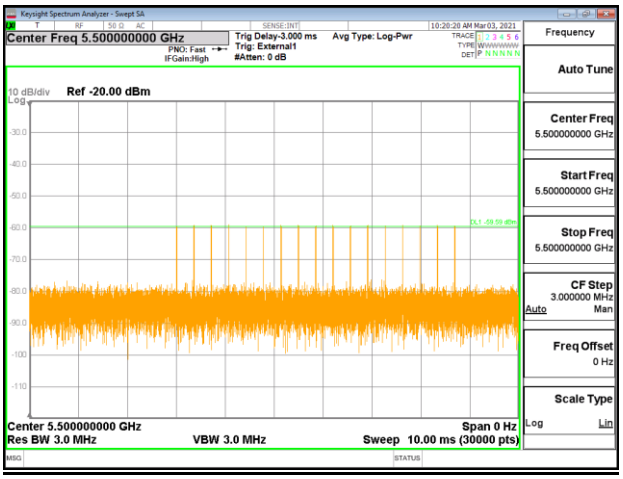	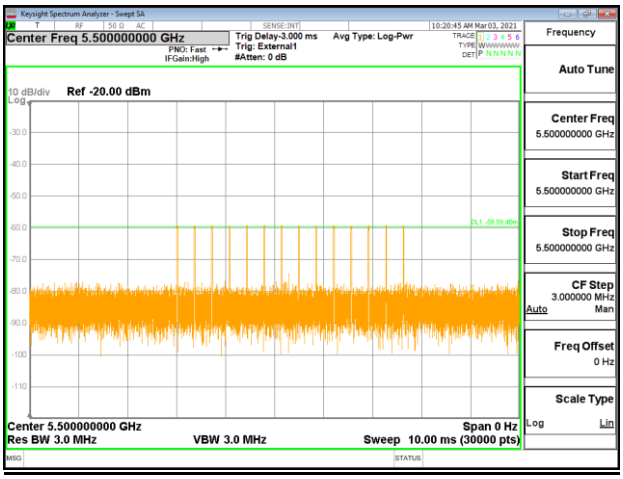
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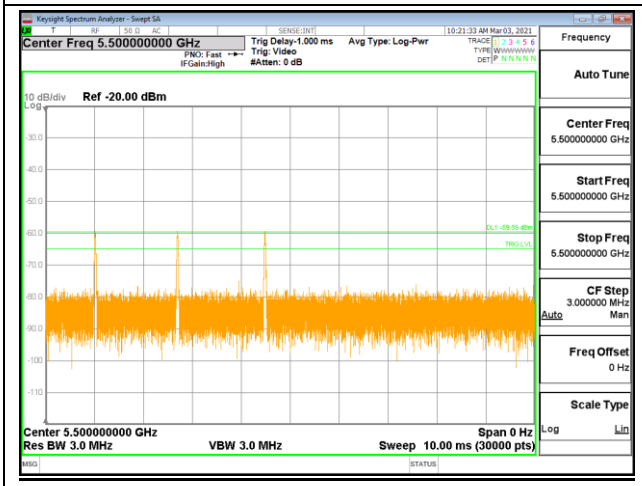	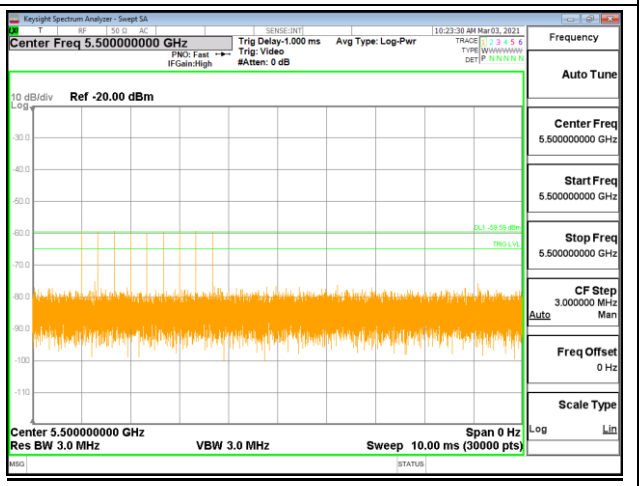

<40MHz / 5510MHz>

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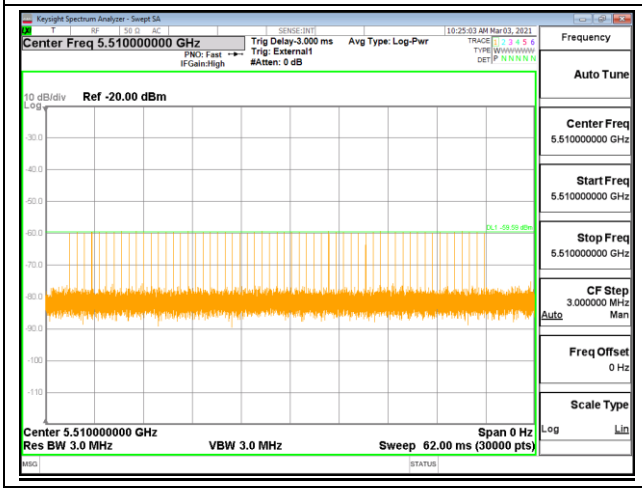	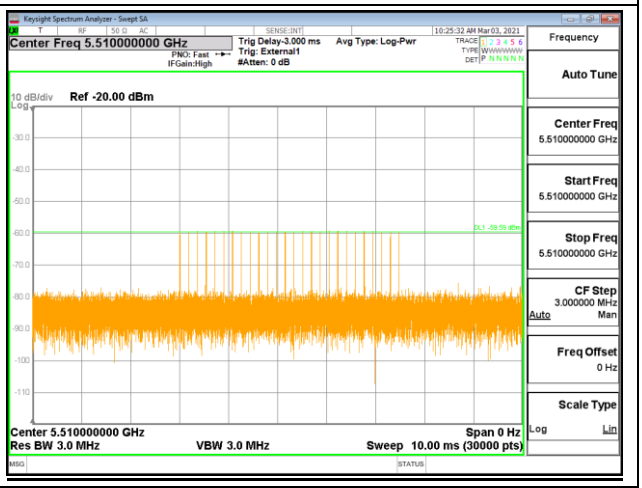
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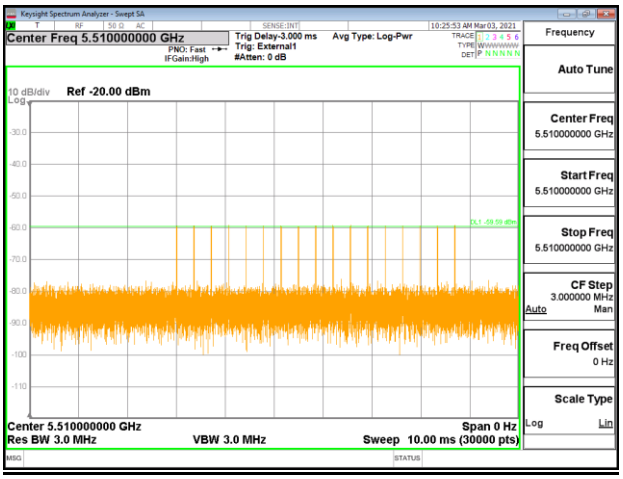	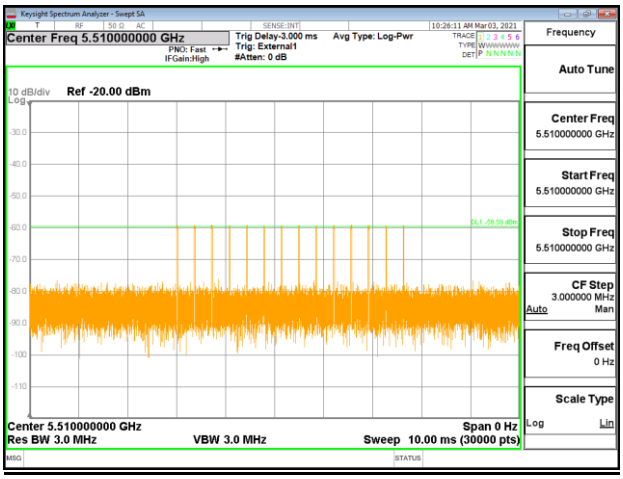
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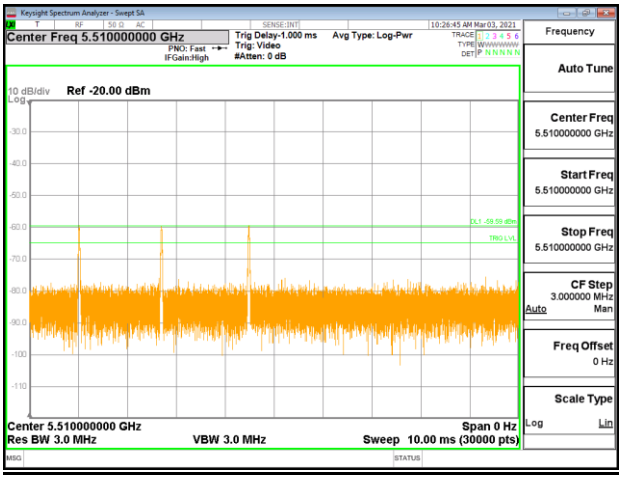	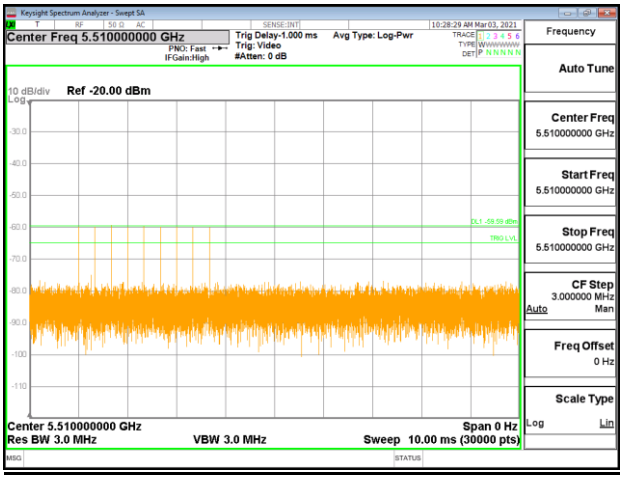

<80MHz / 5530MHz>

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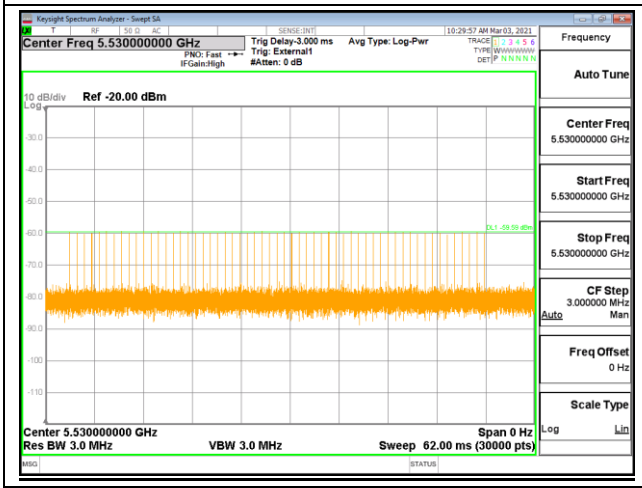	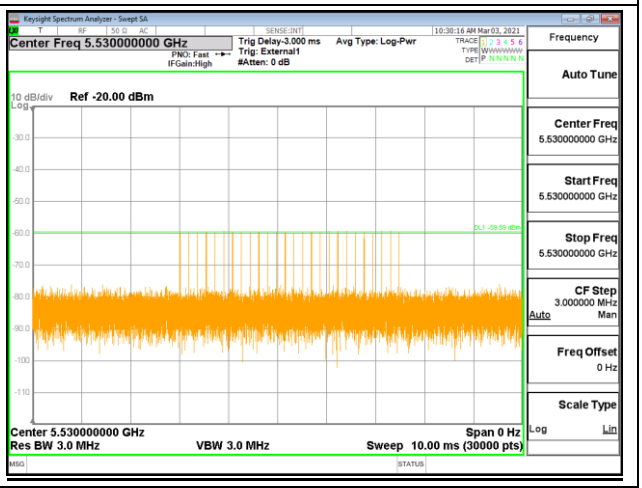
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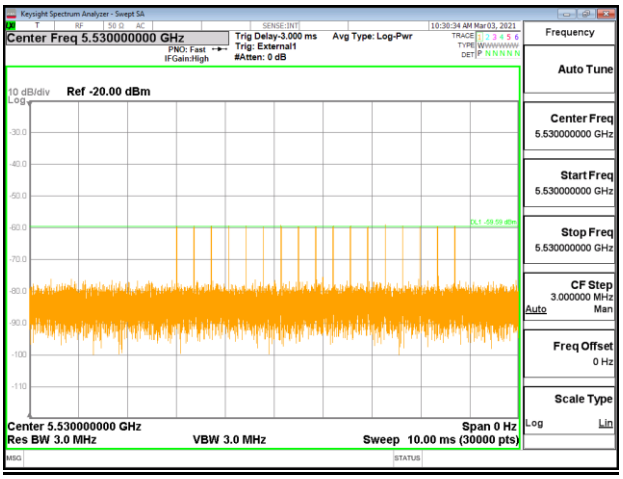
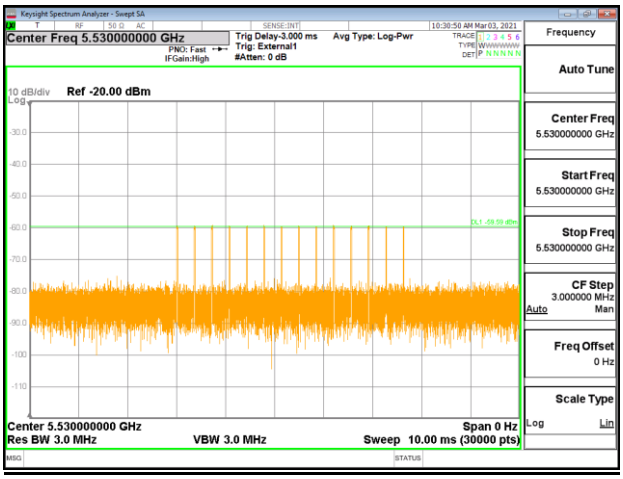
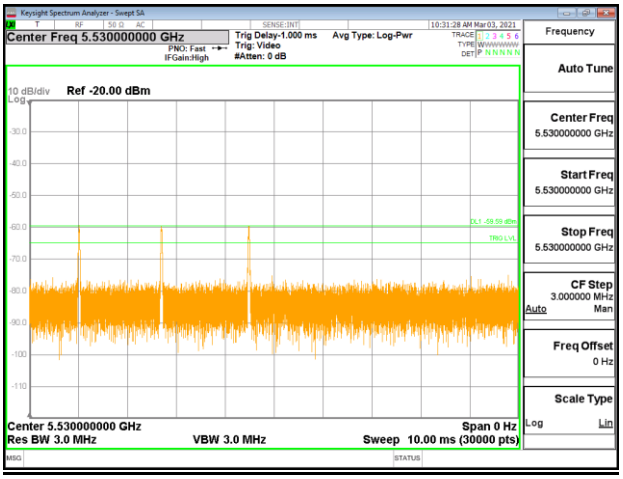
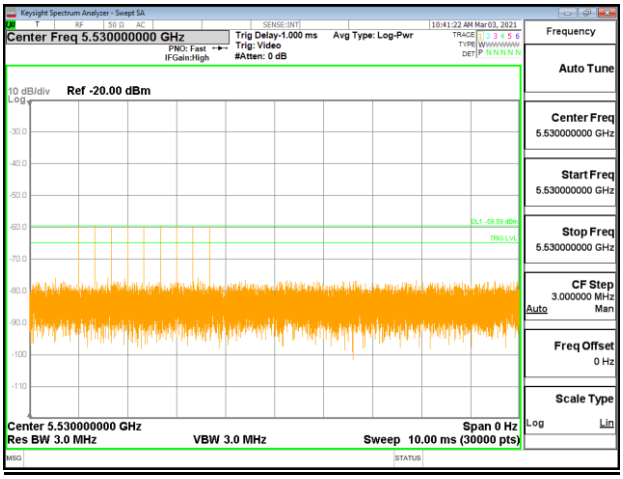
	
Single Burst of Radar Type 5	**Single Burst of Radar Type 6**
	

3.2 U-NII Detection Bandwidth

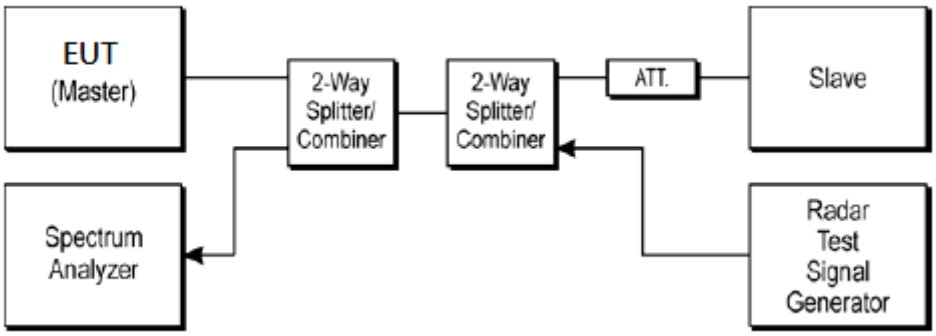
3.2.1 Limit of U-NII Detection Bandwidth

The U-NII Detection Bandwidth shall contain minimum 100% of the 99% power bandwidth.
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.

3.2.2 Test Procedures

(1) Adjust the equipment to produce a single burst of the Short Pulse Radar Type 0 at the center frequency of the EUT Operating Channel at the specified DFS Detection Threshold level.
(2) Set the EUT up as a standalone device (no associated Client or Master, as appropriate) and no traffic. Frame based systems will be set to a talk/listen ratio of 0%/100% during this test.
(3) Generate a single radar burst, and note the response of the EUT. Repeat for a minimum of 10 trials. The EUT must detect the Radar Waveform using the specified U-NII Detection Bandwidth criterion.
(4) Starting at the center frequency of the EUT operating Channel, increase the radar frequency in 5 MHz steps, repeating the above test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion specified in report clause 2.3. Repeat this measurement in 1MHz steps at frequencies 5 MHz below where the detection rate begins to fall. Record the highest frequency (denote as F_H) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies above FH is not required to demonstrate compliance.
(5) Starting at the center frequency of the EUT operating Channel, decrease the radar frequency in 5 MHz steps, repeating the above test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion specified in report clause 2.3. Repeat this measurement in 1MHz steps at frequencies 5 MHz above where the detection rate begins to fall. Record the lowest frequency (denote as F_L) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies below FL is not required to demonstrate compliance.
(6) The U-NII Detection Bandwidth is calculated as follows:
U-NII Detection Bandwidth = $F_H - F_L$

3.2.3 Test Setup



3.2.4 Test Deviation

There is no deviation with the original standard.

3.2.5 Result of U-NII Detection Bandwidth

<20MHz / 5500MHz>

Frequency (MHz)	Fc	Trial Number (Detection = V, No Detection = N)										Rate (%)	F_H/F_L
		1	2	3	4	5	6	7	8	9	10		
5489	-11	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	0	
5490	-10	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	**F_L**
5491	-9	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5492	-8	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5493	-7	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5494	-6	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5495	-5	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5500	0	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5505	+5	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5506	+6	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5507	+7	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5508	+8	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5509	+9	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5510	+10	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	**F_H**
5511	+11	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	0	
Detection Bandwidth = F_H – F_L = **5510** – **5490** = **20** MHz EUT 99% Bandwidth = **17.806** MHz (Refer to channel 100)													

<40MHz / 5510MHz>

Frequency (MHz)	Fc	Trial Number (Detection = V, No Detection = N)										Rate (%)	F_H/F_L
		1	2	3	4	5	6	7	8	9	10		
5489	-21	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	0	
5490	-20	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	F_L
5491	-19	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5492	-18	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5493	-17	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5494	-16	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5495	-15	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5500	-10	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5505	-5	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5510	0	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5515	+5	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5520	+10	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5525	+15	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5526	+16	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5527	+17	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5528	+18	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5529	+19	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	
5530	+20	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	**V**	100	F_H
5531	+21	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	0	
Detection Bandwidth = $F_H - F_L$ = **5530** – **5490** = **40** MHz EUT 99% Bandwidth = **36.502** MHz (Refer to channel 102)													

<80MHz / 5530MHz>

Frequency (MHz)	Fc	Trial Number (Detection = V, No Detection = N)										Rate (%)	F_H/F_L
		1	2	3	4	5	6	7	8	9	10		
5489	-41	N	N	N	N	N	N	N	N	N	N	0	
5490	-40	V	V	V	V	V	V	V	V	V	V	100	F_L
5491	-39	V	V	V	V	V	V	V	V	V	V	100	
5492	-38	V	V	V	V	V	V	V	V	V	V	100	
5493	-37	V	V	V	V	V	V	V	V	V	V	100	
5494	-36	V	V	V	V	V	V	V	V	V	V	100	
5495	-35	V	V	V	V	V	V	V	V	V	V	100	
5500	-30	V	V	V	V	V	V	V	V	V	V	100	
5505	-25	V	V	V	V	V	V	V	V	V	V	100	
5510	-20	V	V	V	V	V	V	V	V	V	V	100	
5515	-15	V	V	V	V	V	V	V	V	V	V	100	
5520	-10	V	V	V	V	V	V	V	V	V	V	100	
5525	-5	V	V	V	V	V	V	V	V	V	V	100	
5530	0	V	V	V	V	V	V	V	V	V	V	100	
5535	+5	V	V	V	V	V	V	V	V	V	V	100	
5540	+10	V	V	V	V	V	V	V	V	V	V	100	
5545	+15	V	V	V	V	V	V	V	V	V	V	100	
5550	+20	V	V	V	V	V	V	V	V	V	V	100	
5555	+25	V	V	V	V	V	V	V	V	V	V	100	
5560	+30	V	V	V	V	V	V	V	V	V	V	100	
5565	+35	V	V	V	V	V	V	V	V	V	V	100	
5566	+36	V	V	V	V	V	V	V	V	V	V	100	
5567	+37	V	V	V	V	V	V	V	V	V	V	100	
5568	+38	V	V	V	V	V	V	V	V	V	V	100	
5569	+39	V	V	V	V	V	V	V	V	V	V	100	
5570	+40	V	V	V	V	V	V	V	V	V	V	100	F_H
5571	+41	N	N	N	N	N	N	N	N	N	N	0	
Detection Bandwidth = $F_H - F_L$ = **5570** – **5490** = **80** MHz EUT 99% Bandwidth = **77.298** MHz (Refer to channel 106)													

3.3 Channel Availability Check

3.3.1 Limit of Channel Availability Check

The Initial Channel Availability Check Time tests that the EUT does not emit beacon, control, or data signals on the test Channel until the power-up sequence has been completed and the U-NII device checks for radar waveforms for **one minute** on the test Channel.

3.3.2 Test Procedures of Initial Channel Availability Check Time

This test does not use any radar waveforms and only needs to be performed one time.

(1) The U-NII devices will be powered on and be instructed to operate on the appropriate U-NII Channel that must incorporate DFS functions. At the same time the EUT is powered on, the spectrum analyzer will be set to zero span mode with a 3 MHz RBW and 3 MHz VBW on the Channel occupied by the radar (Chr) with a 2.5 minute sweep time. The spectrum analyzer's sweep will be started at the same time power is applied to the U-NII device.
(2) The EUT should not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle.

3.3.3 Radar Burst at the Beginning of the Channel Availability Check Time

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

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

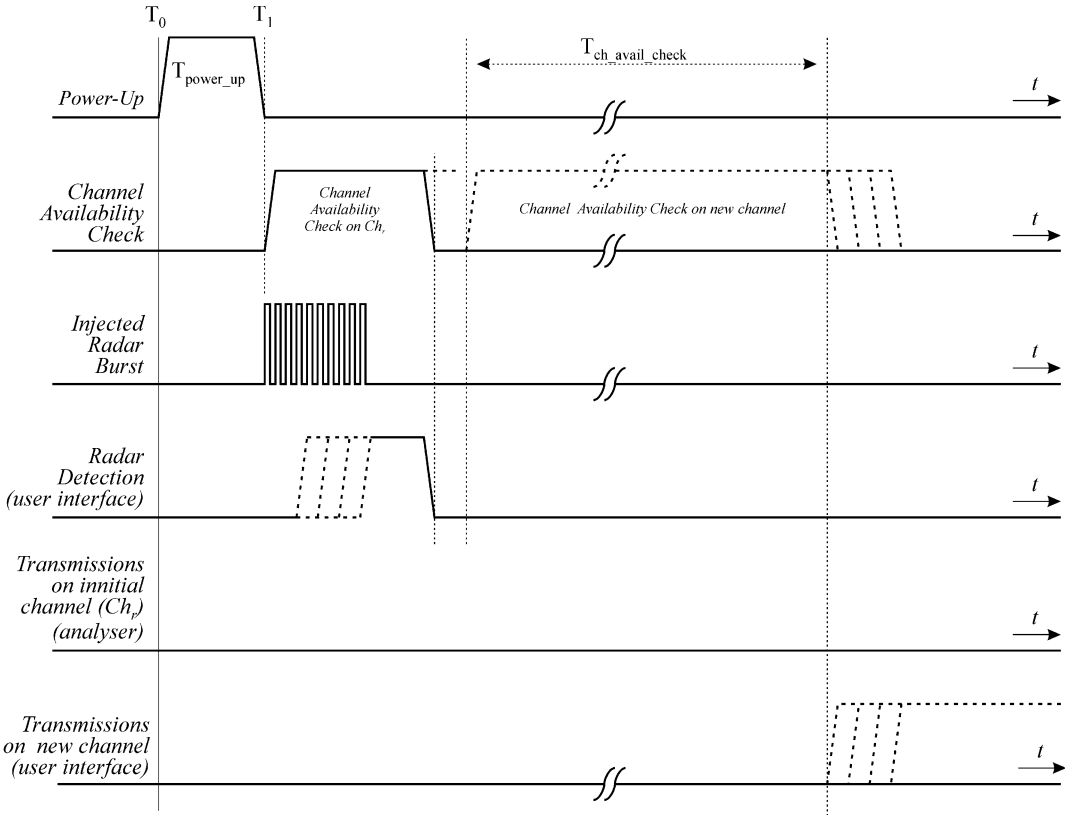


Figure 15: Example of timing for radar testing at the beginning of the Channel Availability Check Time

3.3.4 Radar Burst at the End of the Channel Availability Check Time

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

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

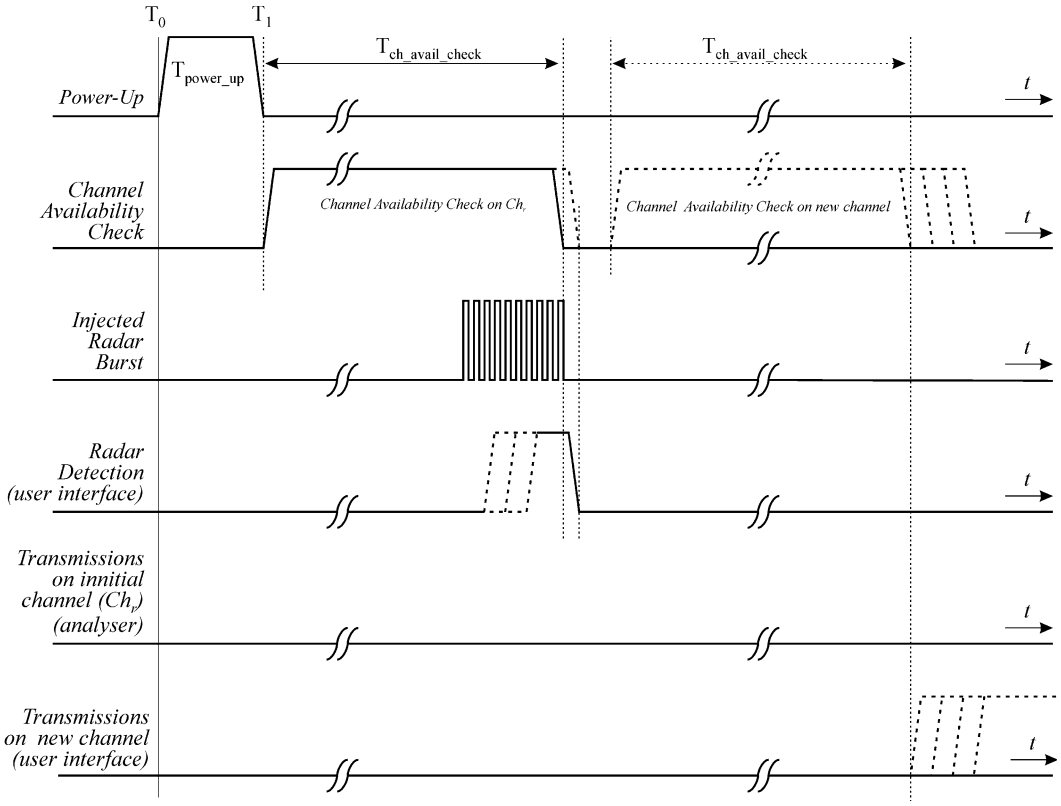
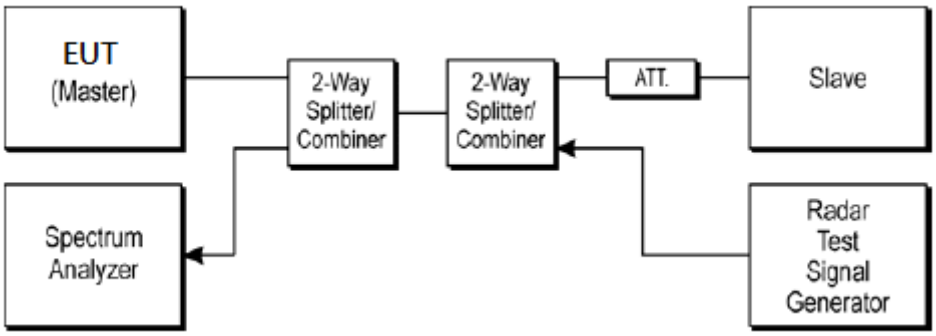


Figure 16: Example of timing for radar testing towards the end of the Channel Availability Check Time

3.3.5 Test Setup



3.3.6 Test Deviation

There is no deviation with the original standard.

3.3.7 Result of Channel Availability Check Time

<80MHz / 5530MHz>

EUT Power up and Initial Channel Availability Check Time	
	
Radar Burst at the Beginning of the Channel Availability Check Time	**Radar Burst at the End of the Channel Availability Check Time**
	

Marker 1 (Delta2): 60 seconds before End of Channel Availability Check

Marker 2: End of Channel Availability Check

Marker 3: 54 seconds or 6 seconds before End of Channel Availability Check

3.4 In-Service Monitoring: Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

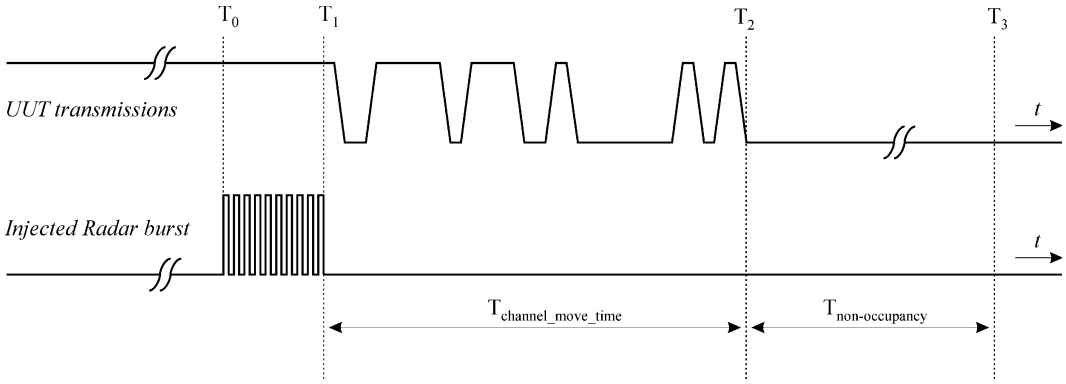
3.4.1 Limit of In-Service Monitoring

The EUT has In-Service Monitoring function to continuously monitor the radar signals, If radar is detected, it must leave the channel (Shutdown). The Channel Move Time to cease all transmissions on the current Channel upon detection of a Radar Waveform above the DFS Detection Threshold within 10 sec. The total duration of 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.
Non-Occupancy Period time is 30 minute during which a Channel will not be utilized after a Radar Waveform is detected on that Channel.

3.4.2 Test Procedures

(1) One frequency will be chosen from the Operating Channels of the EUT within the 5250-5350 MHz or 5470-5725 MHz bands. For 802.11 devices, the test frequency must contain control signals. This can be verified by disabling channel loading and monitoring the spectrum analyzer. If no control signals are detected, another frequency must be selected within the emission bandwidth where control signals are detected.
(2) In case the EUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will associate with the EUT (Master). For radiated tests, the emissions of the Radar Waveform generator will be directed towards the Master Device. If the Master Device has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.
(3) The TCP protocol unicast data stream was generated by the iperf software command line with at least 17% activity ratio over any 100ms period.
(4) Timing plots are reported with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, channel loading can be estimated by setting the spectrum analyzer for zero span and approximate the Time On/ (Time On + Off Time).
(5) At time T0 the Radar Waveform generator sends a Burst of pulses for one of the Short Pulse Radar Types 1-4 at DFS Detection Threshold levels on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
(6) 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). Measure and record the Channel Move Time and Channel Closing Transmission Time if radar detection occurs.

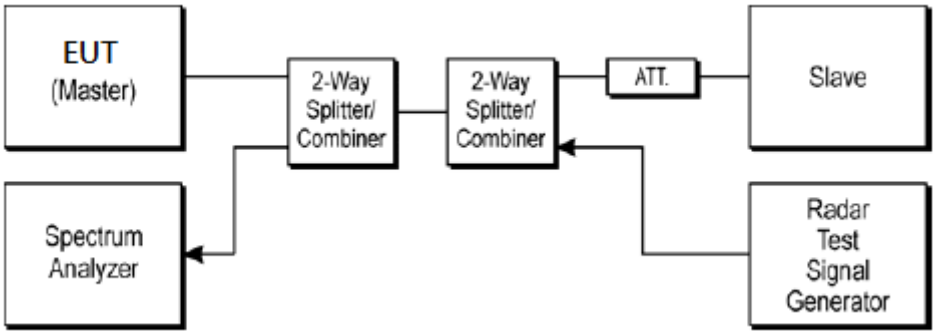
(7) When operating as a Master Device, monitor the EUT for more than 30 minutes following instant T2 to verify that the EUT does not resume any transmissions on this Channel. Perform this test once and record the measurement result.



(8) One 12 seconds plot is reported for the Short Pulse Radar Type 0.

(9) Measurement of the aggregate duration of the Channel Closing Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.4ms)= S (12000ms) / B (30000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is the sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.4 ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.

3.4.3 Test Setup



3.4.4 Test Deviation

There is no deviation with the original standard.

3.4.5 Result of Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period for Client Beacon Test

Test Mode :	Master	Temperature :	22.5~25.5℃
Test Engineer :	PH Yang / Kai Liao / Peter Liao	Relative Humidity :	45~55%

BW / Channel	Test Item	Test Result	Limit	Pass/Fail
80MHz / 5530MHz	Channel Move Time	**0.02677 s**	**＜ 10s**	**Pass**
	Channel Closing Transmission Time	**200ms + 0 ms**	**＜ 260ms**	**Pass**
	Non-Occupancy Period	**≥ 30**	**≥ 30 min**	**Pass**

Note: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.

3.4.6 Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period Test Plots

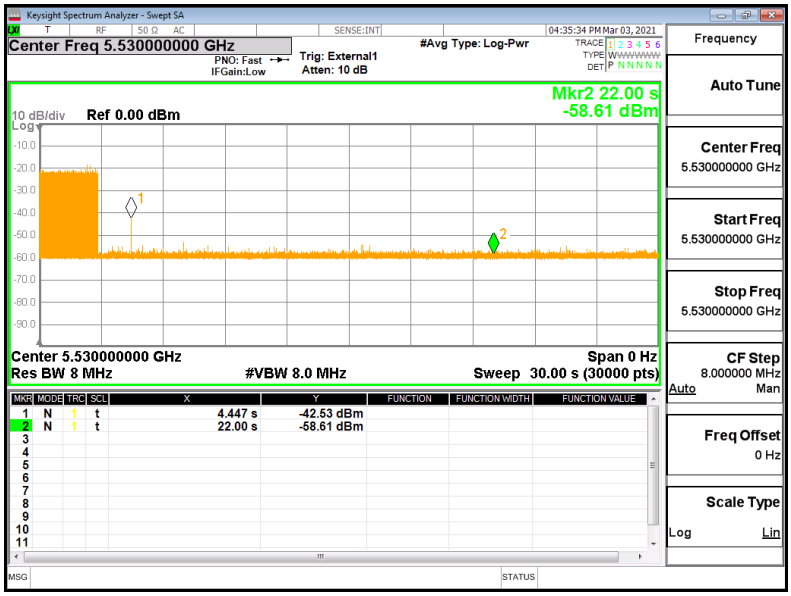
<80MHz / 5530MHz> In-Service Monitoring
Channel Move Time & Channel Closing Transmission Time

Non-Occupancy Period

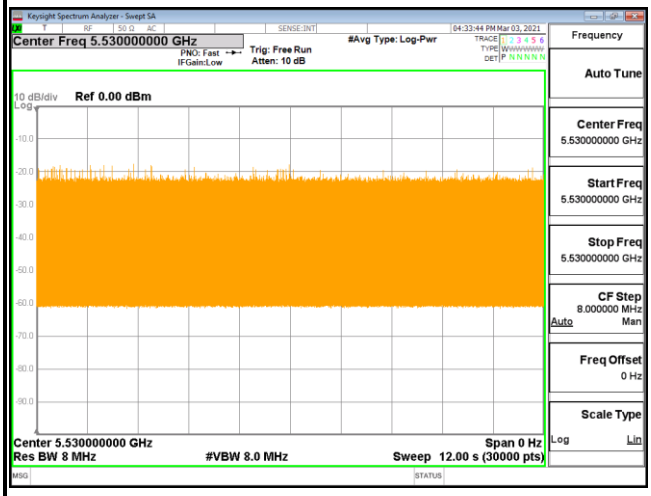
Note: Dwell (0.4 ms)= Sweep Time (12000 ms) / Sweep Point Bins (30000) Channel Closing Transmission Time (200 + 0 ms) = 200 + Number (0) X Dwell (0.4 ms) < 260ms

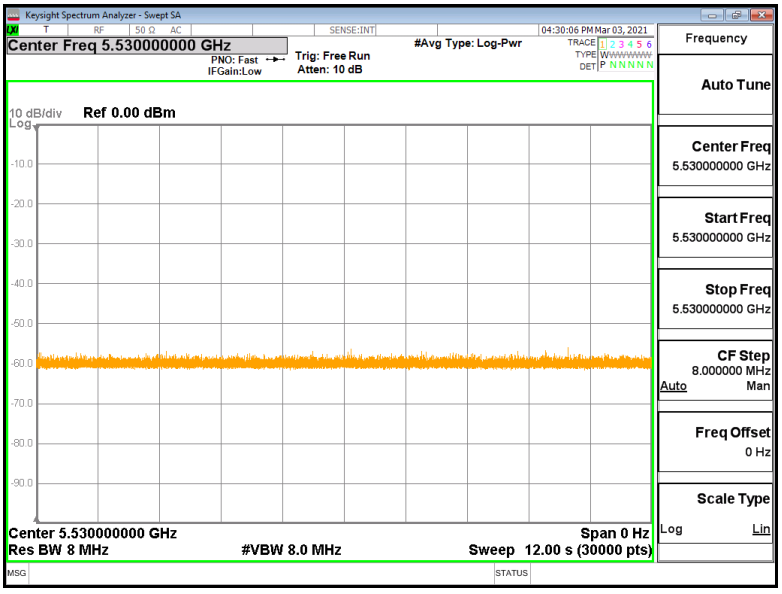
3.4.7 Long Pulsed Radar Type Channel Move Time Test Plots (22second)

<80MHz / 5530MHz> Radar Type 5
Channel Move Time



3.4.8 Data Traffic Channel Loading and Noise Floor Plots

EUT data traffic (Master)	Channel Loading > 17% (Master)
	 

Noise Floor (No transmission)


3.5 Statistical Performance Check

3.5.1 Limit of Statistical Performance Check

Short Pulse Radar Test

Once the performance requirements check is complete, statistical data will be gathered, to determine the ability of the device to detect the radar test waveforms (Short Pulse Radar Types 1-4) found in **Table 5**. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trials. The percentage of successful detection is calculated by:

$$\frac{TotalWaveformDetections}{TotalWaveformTrials} \times 100$$ = Percentage of Successful Detection *Radar Waveform* N = P_dN

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

$$\frac{P_d 1 + P_d 2 + P_d 3 + P_d 4}{4}$$

The minimum number of trails, minimum percentage of successful detection and the aggregate minimum percentage of successful detection are found in **Table 5**.

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
1	1	1428	18	60%	30
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

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 1 through 4. For Short Pulse Radar Type 0, the same waveform is used a minimum of 30 times. 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.

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
1	35	29	82.9%
2	30	18	60%
3	30	27	90%
4	50	44	88%
Aggregate (82.9% + 60% + 90% + 88%)/4 = 80.2%			

Long Pulse Radar Test

Statistical data will be gathered to determine the ability of the device to detect the Long Pulse Radar Type 5 found in **Table 6**. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trials.

Table 6 – Long Pulse Radar Test Waveform

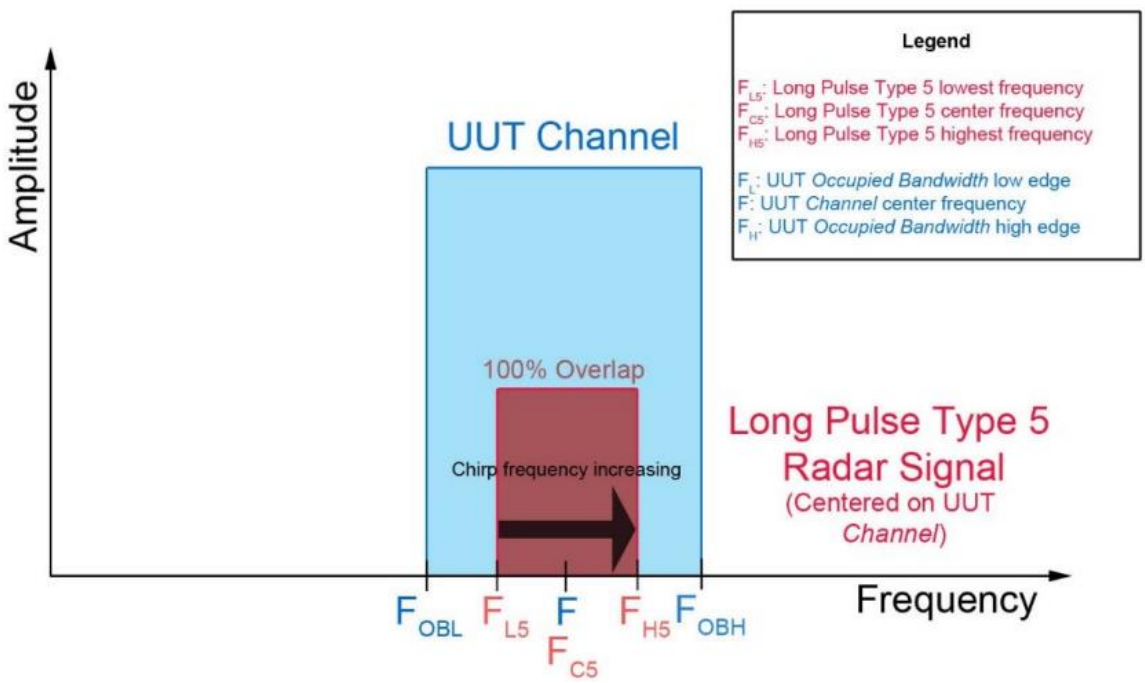
Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per *Burst*	Number of *Bursts*	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

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.

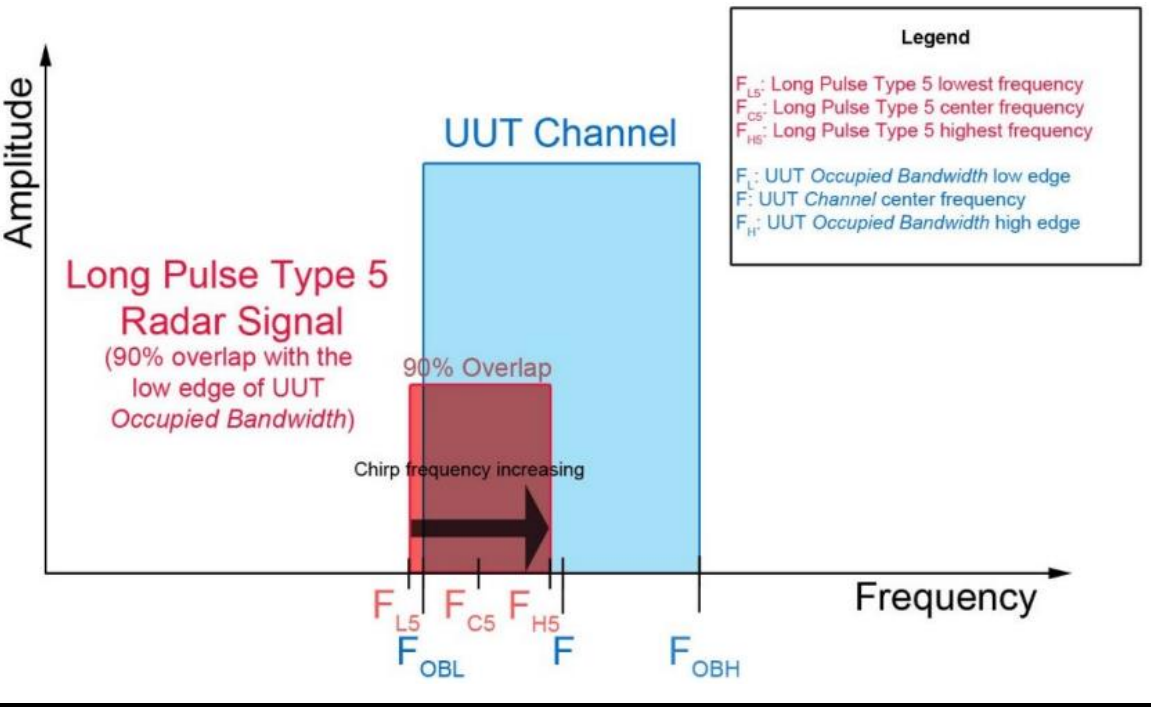
Three subsets of trials will be performed with a minimum of ten trials per subset.
The subset of trials differs in where the Long Pulse Type 5 Signal is tuned in frequency:
a) The Channel center frequency (subset case 1).
b) Tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the low edge of the UUT Occupied Bandwidth (subset case 2).
c) Tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the high edge of the UUT Occupied Bandwidth (subset case 3).

For subset case 1: the center frequency of the signal generator will remain fixed at the center of the UUT Channel.
For subset case 2: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 2. The center frequency of the signal generator for each trial is calculated by: $FL + (0.4 * Chirp\ Width\ [in\ MHz])$
For subset case 3: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 3. The center frequency of the signal generator for each trial is calculated by: $FH - (0.4 * Chirp\ Width\ [in\ MHz])$

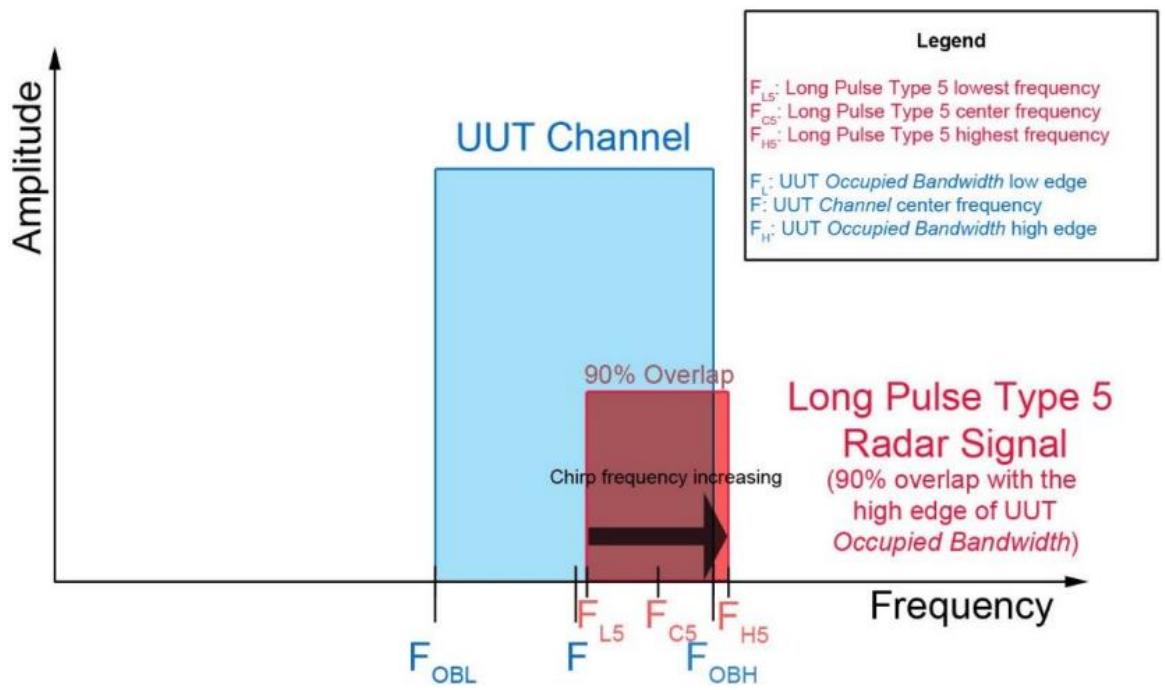
a) Channel center frequency (subset case 1)



b) Tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the low edge of the UUT Occupied Bandwidth. (subset case 2)



c) Tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the high edge of the UUT Occupied Bandwidth. (subset case 3)



The percentage of successful detection is calculated by:

$$\frac{TotalWaveformDetections}{TotalWaveformTrials} \times 100$$

Frequency Hopping Radar Test

Statistical data will be gathered to determine the ability of the device to detect the Frequency Hopping radar test signal (radar type 6) found in **Table 7**. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs. The probability of successful detection is calculated by:

$$\frac{TotalWaveformDetections}{TotalWaveformTrials} \times 100$$

Table 7 – Frequency Hopping Radar Test Waveform

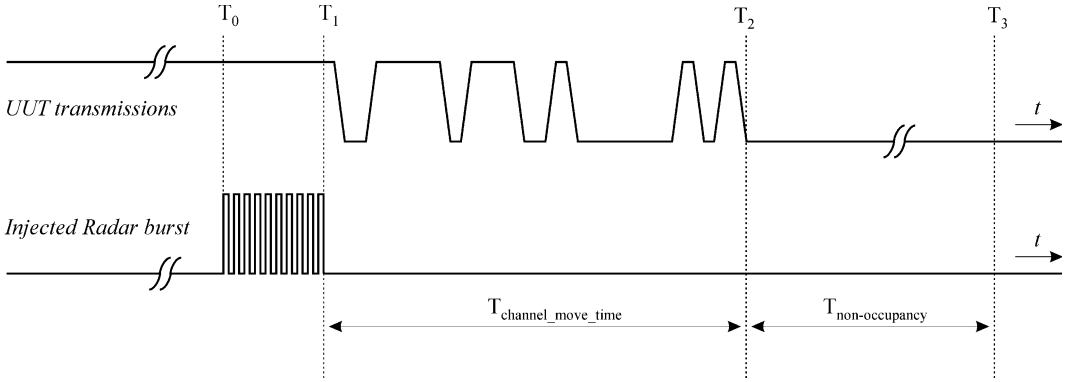
Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

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:

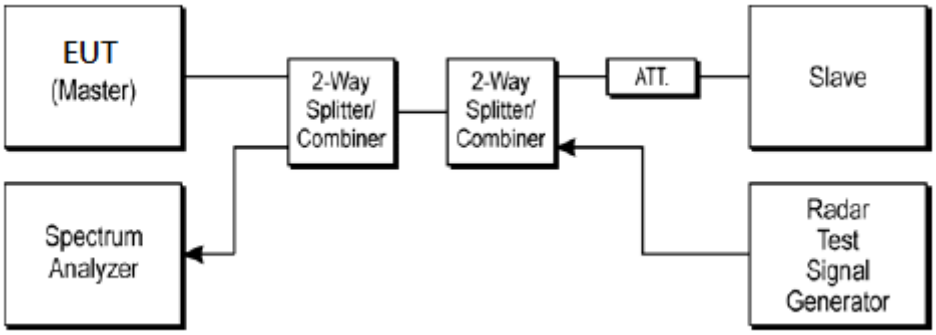
The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues 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.

3.5.2 Test Procedures

(1) One frequency will be chosen from the Operating Channels of the EUT within the 5250-5350 MHz or 5470-5725 MHz bands.
(2) In case the EUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will associate with the EUT (Master). If the Master Device has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.
(3) The TCP protocol unicast data stream was generated by the iperf software command line with at least 17% activity ratio over any 100ms period.
(4) At time T0 the Radar Waveform generator sends a Burst of pulses for each of the Radar Types 1-6 at DFS Detection Threshold levels on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
(5) Observe the transmissions of the EUT 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.
(6) Observe the transmissions of the EUT 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.



3.5.3 Test Setup



3.5.4 Test Deviation

There is no deviation with the original standard.

3.5.5 Result of Statistical Performance Check

<20MHz / 5500MHz>

(Detection = Y, No Detection = N)						
Trial Number	**Type 1**	**Type 2**	**Type 3**	**Type 4**	**Type 5**	**Type 6**
1	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
2	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
3	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
4	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
5	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
6	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
7	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
8	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
9	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
10	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
11	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
12	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
13	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
14	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
15	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
16	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
17	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
18	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
19	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
20	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
21	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
22	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
23	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
24	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
25	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
26	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
27	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
28	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
29	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
30	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
Trial of Detection	**30/30**	**30/30**	**30/30**	**30/30**	**30/30**	**30/30**
Probability (%)	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**
Limit (%)	>= 60%	>= 60%	>= 60%	>= 60%	>= 80%	>= 70%
Average Probability of Radar Type 1~4 (%)			**100%** (>=80%)			

<40MHz / 5510MHz>

(Detection = Y, No Detection = N)						
Trial Number	**Type 1**	**Type 2**	**Type 3**	**Type 4**	**Type 5**	**Type 6**
1	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
2	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
3	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
4	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
5	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
6	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
7	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
8	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
9	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
10	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
11	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
12	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
13	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
14	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
15	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
16	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
17	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
18	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
19	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
20	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
21	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
22	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
23	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
24	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
25	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
26	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
27	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
28	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
29	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
30	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
Trial of Detection	**30/30**	**30/30**	**30/30**	**30/30**	**30/30**	**30/30**
Probability (%)	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**
Limit (%)	>= 60%	>= 60%	>= 60%	>= 60%	>= 80%	>= 70%
Average Probability of Radar Type 1~4 (%)			**100%** (>=80%)			

<80MHz / 5530MHz>

(Detection = Y, No Detection = N)						
Trial Number	**Type 1**	**Type 2**	**Type 3**	**Type 4**	**Type 5**	**Type 6**
1	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
2	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
3	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
4	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
5	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
6	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
7	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
8	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
9	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
10	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
11	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
12	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
13	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
14	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
15	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
16	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
17	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
18	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
19	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
20	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
21	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
22	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
23	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
24	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
25	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
26	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
27	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
28	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
29	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
30	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
Trial of Detection	**30/30**	**30/30**	**30/30**	**30/30**	**30/30**	**30/30**
Probability (%)	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**
Limit (%)	>= 60%	>= 60%	>= 60%	>= 60%	>= 80%	>= 70%
Average Probability of Radar Type 1~4 (%)			**100%** (>=80%)			

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Signal Generator	Keysight	N5182B	MY57280013	9kHz~6GHz	Dec. 23, 2020	Mar. 03, 2021~ Aug. 27, 2021	Dec. 22, 2021	DFS (DFS02-HY)
Spectrum Analyzer	Keysight	N9010A	MY57120184	10Hz~7GHz	Nov. 17, 2020	Mar. 03, 2021~ Aug. 27, 2021	Nov. 16, 2021	DFS (DFS02-HY)
Power Divider	MTJ	SMA 2Way Power Divider	MD10003	0.5GHz-6GHz	Calibration from System	Mar. 03, 2021~ Aug. 27, 2021	Calibration from System	DFS (DFS02-HY)
Power Divider	MTJ	SMA 2Way Power Divider	MD10007	0.5GHz-6GHz	Calibration from System	Mar. 03, 2021~ Aug. 27, 2021	Calibration from System	DFS (DFS02-HY)
Power Divider	Woken	SMA 3Way Power Divider	STI08-0010(#2)	2GHz-8GHz	Calibration from System	Mar. 03, 2021~ Aug. 27, 2021	Calibration from System	DFS (DFS02-HY)
Power Divider	Woken	SMA 4Way Power Divider	0120A04056002D	0.5-6GHz	Calibration from System	Mar. 03, 2021~ Aug. 27, 2021	Calibration from System	DFS (DFS02-HY)
RF Cable	MTJ Cooperstion	SBF405-105FLEX	MTJ-30cm-01	30 kHz~18GHz	Calibration from System	Mar. 03, 2021~ Aug. 27, 2021	Calibration from System	DFS (DFS02-HY)
RF Cable	MTJ Cooperstion	SBF405-105FLEX	MTJ-30cm-02	30 kHz~18GHz	Calibration from System	Mar. 03, 2021~ Aug. 27, 2021	Calibration from System	DFS (DFS02-HY)
RF Cable	MTJ Cooperstion	SBF405-105FLEX	MTJ-30cm-03	30 kHz~18GHz	Calibration from System	Mar. 03, 2021~ Aug. 27, 2021	Calibration from System	DFS (DFS02-HY)
RF Cable	MTJ Cooperstion	SBF405-105FLEX	MTJ-30cm-04	30 kHz~18GHz	Calibration from System	Mar. 03, 2021~ Aug. 27, 2021	Calibration from System	DFS (DFS02-HY)
RF Cable	MTJ Cooperstion	SBF405-105FLEX	MTJ-30cm-05	30 kHz~18GHz	Calibration from System	Mar. 03, 2021~ Aug. 27, 2021	Calibration from System	DFS (DFS02-HY)
RF Cable	MTJ Cooperstion	SBF405-105FLEX	MTJ-30cm-06	30 kHz~18GHz	Calibration from System	Mar. 03, 2021~ Aug. 27, 2021	Calibration from System	DFS (DFS02-HY)
RF Cable	Woken	S05(100cm)	161202-04	30 kHz~18GHz	Calibration from System	Mar. 03, 2021~ Aug. 27, 2021	Calibration from System	DFS (DFS02-HY)
RF Cable	Woken	S05(100cm)	161202-05	30 kHz~18GHz	Calibration from System	Mar. 03, 2021~ Aug. 27, 2021	Calibration from System	DFS (DFS02-HY)

Appendix A. Radar Parameters

DFS Radar Parameters
FCC Radar Type 1
Channel 100 Bandwidth 20MHz

Trial #	Pulse Repetition Frequency Number (1 to 23)	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)	Detection (Yes / No)
1	22	1066.10	938	Yes
2	10	1432.66	698	Yes
3	6	1618.12	618	Yes
4	2	1858.74	538	Yes
5	19	1138.95	878	Yes
6	12	326.16	3066	Yes
7	7	1567.40	638	Yes
8	21	1089.32	918	Yes
9	17	1193.32	838	Yes
10	18	1165.50	858	Yes
11	15	1253.13	798	Yes
12	11	1392.76	718	Yes
13	4	1730.10	578	Yes
14	5	1672.24	598	Yes
15	3	1792.11	558	Yes
16		394.32	2536	Yes
17		1035.20	966	Yes
18		1209.19	827	Yes
19		399.84	2501	Yes
20		385.36	2595	Yes
21		897.67	1114	Yes
22		768.05	1302	Yes
23		328.41	3045	Yes
24		615.76	1624	Yes
25		347.46	2878	Yes
26		973.71	1027	Yes
27		402.41	2485	Yes
28		625.00	1600	Yes
29		853.24	1172	Yes
30		849.62	1177	Yes

DFS Radar Parameters
FCC Radar Type 2
Channel 100 Bandwidth 20MHz

Trial #	Number Pulses per Burst	Pulse Width (Microseconds)	Pulse Repetition Interval (Microseconds)	Detection (Yes / No)
1	26	3.20	179	Yes
2	23	1.10	207	Yes
3	24	2.10	230	Yes
4	29	4.80	200	Yes
5	28	3.90	214	Yes
6	26	2.90	222	Yes
7	26	3.20	204	Yes
8	25	2.50	192	Yes
9	26	3.10	164	Yes
10	23	1.20	156	Yes
11	27	3.90	210	Yes
12	29	4.60	201	Yes
13	26	3.20	162	Yes
14	25	2.20	197	Yes
15	29	4.50	163	Yes
16	26	3.00	203	Yes
17	29	5.00	168	Yes
18	25	2.40	217	Yes
19	26	2.90	191	Yes
20	25	2.30	166	Yes
21	27	3.70	150	Yes
22	25	2.20	176	Yes
23	29	4.90	195	Yes
24	26	2.90	202	Yes
25	25	2.50	178	Yes
26	23	1.10	206	Yes
27	27	3.80	155	Yes
28	29	4.70	157	Yes
29	25	2.40	224	Yes
30	28	4.20	159	Yes

DFS Radar Parameters
FCC Radar Type 3
Channel 100 Bandwidth 20MHz

Trial #	Number Pulses per Burst	Pulse Width (Microseconds)	Pulse Repetition Interval (Microseconds)	Detection (Yes / No)
1	17	8.20	355	Yes
2	16	6.10	487	Yes
3	16	7.10	344	Yes
4	18	9.80	288	Yes
5	18	8.90	230	Yes
6	17	7.90	432	Yes
7	17	8.20	207	Yes
8	17	7.50	443	Yes
9	17	8.10	439	Yes
10	16	6.20	223	Yes
11	18	8.90	208	Yes
12	18	9.60	463	Yes
13	17	8.20	441	Yes
14	16	7.20	323	Yes
15	18	9.50	297	Yes
16	17	8.00	412	Yes
17	18	10.00	324	Yes
18	17	7.40	271	Yes
19	17	7.90	349	Yes
20	16	7.30	409	Yes
21	18	8.70	373	Yes
22	16	7.20	254	Yes
23	18	9.90	274	Yes
24	17	7.90	278	Yes
25	17	7.50	317	Yes
26	16	6.10	260	Yes
27	18	8.80	211	Yes
28	18	9.70	272	Yes
29	17	7.40	264	Yes
30	18	9.20	284	Yes

DFS Radar Parameters
FCC Radar Type 4
Channel 100 Bandwidth 20MHz

Trial #	Number Pulses per Burst	Pulse Width (Microseconds)	Pulse Repetition Interval (Microseconds)	Detection (Yes / No)
1	14	16.00	355	Yes
2	12	11.30	487	Yes
3	13	13.50	344	Yes
4	16	19.40	288	Yes
5	15	17.50	230	Yes
6	14	15.30	432	Yes
7	14	15.90	207	Yes
8	13	14.30	443	Yes
9	14	15.80	439	Yes
10	12	11.50	223	Yes
11	15	17.40	208	Yes
12	16	19.00	463	Yes
13	14	16.00	441	Yes
14	13	13.80	323	Yes
15	16	18.90	297	Yes
16	14	15.50	412	Yes
17	16	19.90	324	Yes
18	13	14.10	271	Yes
19	14	15.20	349	Yes
20	13	13.80	409	Yes
21	15	17.10	373	Yes
22	13	13.80	254	Yes
23	16	19.80	274	Yes
24	14	15.30	278	Yes
25	13	14.50	317	Yes
26	12	11.30	260	Yes
27	15	17.30	211	Yes
28	16	19.20	272	Yes
29	13	14.20	264	Yes
30	15	18.20	284	Yes

DFS Radar Parameters
FCC Radar Type 5
Channel 100 Bandwidth 20MHz

Trial Number:			1			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5500			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	2	77.8	13	1477	-	636185
2	1	51.9	13	-	-	32674
3	1	63.8	13	-	-	226294
4	3	96.6	13	1786	1843	417976
5	3	85.9	13	1215	1729	611152
6	2	73.7	13	1549	-	8789
7	2	77.2	13	1819	-	201917
8	2	68.4	13	1114	-	395530
9	2	76.7	13	1155	-	588564
10	1	53.2	13	-	-	783794
11	3	85.7	13	1695	1394	177933
12	3	94.3	13	1426	1935	370624
13	2	77.6	13	1671	-	564893
14	1	65.7	13	-	-	759583
15	3	93.5	13	1130	1468	154262
16						
17						
18						
19						
20						

Trial Number:			2			Detection (Yes/No)
Number of Bursts in Trial:			8			
Chirp Center Frequency:			5500			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	2	75	5	1527	-	653020
2	3	99.4	5	1262	1257	1015643
3	2	67.4	5	1403	-	1379398
4	2	73.6	5	1041	-	245489
5	1	65.9	5	-	-	609113
6	3	83.8	5	1292	1419	970852
7	1	65.5	5	-	-	1335913
8	3	98.6	5	1796	1728	200406
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

DFS Radar Parameters
FCC Radar Type 5
Channel 100 Bandwidth 20MHz

Trial Number:			3			Detection (Yes/No)
Number of Bursts in Trial:			11			
Chirp Center Frequency:			5500			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	2	73.8	9	1538	-	409565
2	2	69.5	9	1649	-	673692
3	1	51.9	9	-	-	938562
4	3	84.6	9	1032	1271	113209
5	3	95.4	9	1903	1388	376726
6	2	68	9	1351	-	641212
7	3	89.6	9	1514	1573	903714
8	2	81.9	9	1689	-	80863
9	3	88.3	9	1330	1838	344067
10	1	53.7	9	-	-	609331
11	3	91.3	9	1106	1001	871542
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number:			4			Detection (Yes/No)
Number of Bursts in Trial:			20			
Chirp Center Frequency:			5500			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	2	68.1	19	1355	-	26541
2	1	58.7	19	-	-	171821
3	2	75.3	19	1640	-	316229
4	1	56.4	19	-	-	461864
5	3	99.7	19	1708	1159	8677
6	1	57.7	19	-	-	153995
7	1	59.5	19	-	-	299238
8	2	80	19	1369	-	443177
9	2	82	19	1197	-	587671
10	2	82.8	19	1005	-	135674
11	3	88	19	1928	1101	279928
12	3	93.2	19	1907	1223	424279
13	2	70.4	19	1360	-	570132
14	3	95.3	19	1955	1775	117439
15	2	81.9	19	1545	-	262502
16	3	98.5	19	1169	1062	406573
17	1	65	19	-	-	553328
18	3	85.4	19	1637	1425	99799
19	3	91.6	19	1445	1325	244095
20	2	67.3	19	1218	-	390012

DFS Radar Parameters
FCC Radar Type 5
Channel 100 Bandwidth 20MHz

Trial Number:			5			Detection (Yes/No)
Number of Bursts in Trial:			17			
Chirp Center Frequency:			5500			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	2	67.9	16	1133	-	629614
2	1	62.3	16	-	-	96856
3	1	53.3	16	-	-	267719
4	3	90	16	1153	1346	436784
5	2	77.1	16	1646	-	608289
6	3	83.9	16	1232	1459	75610
7	3	89.1	16	1384	1939	245638
8	2	81.8	16	1676	-	416355
9	1	50.3	16	-	-	588736
10	3	87.1	16	1996	1756	54571
11	2	71.3	16	1815	-	225175
12	3	97.5	16	1465	1132	394825
13	3	90.6	16	1040	1354	565361
14	3	86.3	16	1183	1792	33643
15	3	97.6	16	1073	1361	203957
16	3	84.7	16	1718	1854	373812
17	3	99.7	16	1244	1988	544060
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19						
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Trial Number:			6			Detection (Yes/No)
Number of Bursts in Trial:			14			
Chirp Center Frequency:			5500			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	92.9	12	1564	1407	15438
2	2	67.7	12	1747	-	222486
3	1	65.8	12	-	-	430731
4	1	56.3	12	-	-	637784
5	1	53.7	12	-	-	845342
6	3	83.5	12	1930	1025	196720
7	1	65.8	12	-	-	404955
8	3	85.9	12	1034	1808	610711
9	2	76.3	12	1926	-	818057
10	2	81.5	12	1714	-	171459
11	3	89.4	12	1594	1827	377969
12	1	63.4	12	-	-	586875
13	2	69.6	12	1925	-	792834
14	2	74.5	12	1846	-	146044
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DFS Radar Parameters
FCC Radar Type 5
Channel 100 Bandwidth 20MHz

Trial Number:			7			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5500			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	96.6	13	1609	1581	329022
2	3	96.7	13	1799	1154	521718
3	3	86.5	13	1396	1865	714222
4	2	73.3	13	1318	-	112450
5	1	55.8	13	-	-	306283
6	1	55.4	13	-	-	500239
7	3	85.3	13	1504	1820	690932
8	2	79.4	13	1893	-	88645
9	1	65.7	13	-	-	282508
10	2	68.6	13	1028	-	475842
11	2	77.7	13	1835	-	667887
12	2	79.6	13	1331	-	64845
13	3	94.9	13	1070	1349	257755
14	1	61.4	13	-	-	452335
15	3	90.6	13	1562	1887	643395
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Trial Number:			8			Detection (Yes/No)
Number of Bursts in Trial:			12			
Chirp Center Frequency:			5500			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	52.6	10	-	-	51446
2	3	84.1	10	1725	1529	292696
3	3	97.7	10	1868	1805	533989
4	3	97.3	10	1446	1755	775564
5	3	98.8	10	1386	1302	21542
6	2	72.2	10	1184	-	263385
7	2	67.6	10	1027	-	505581
8	2	75.7	10	1871	-	747058
9	1	60.9	10	-	-	989976
10	1	64.2	10	-	-	234024
11	2	78.8	10	1604	-	475207
12	3	87.5	10	1712	1683	715825
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DFS Radar Parameters
FCC Radar Type 5
Channel 100 Bandwidth 20MHz

Trial Number:			9			Detection (Yes/No)
Number of Bursts in Trial:			14			
Chirp Center Frequency:			5500			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	54.1	13	-	-	823112
2	1	50.7	13	-	-	174965
3	1	52.3	13	-	-	382216
4	3	99.8	13	1696	1949	587395
5	2	68.4	13	1099	-	796897
6	2	80.8	13	1505	-	149042
7	1	62.5	13	-	-	356750
8	2	74.8	13	1204	-	563824
9	1	50.8	13	-	-	772314
10	1	54	13	-	-	123796
11	1	63	13	-	-	331215
12	3	91.8	13	1270	1347	537402
13	2	79.3	13	1992	-	744805
14	1	64.3	13	-	-	98172
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Trial Number:			10			Detection (Yes/No)
Number of Bursts in Trial:			8			
Chirp Center Frequency:			5500			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	63.4	6	-	-	535615
2	1	52	6	-	-	898668
3	3	97.2	6	1605	1583	1259235
4	2	78.7	6	1743	-	127106
5	2	74.2	6	1219	-	490358
6	3	88.7	6	1934	1273	852409
7	1	54.3	6	-	-	1217152
8	3	95.4	6	1555	1791	82296
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DFS Radar Parameters
FCC Radar Type 5
Channel 100 Bandwidth 20MHz

Trial Number:			11			Detection (Yes/No)
Number of Bursts in Trial:			17			
Chirp Center Frequency:			5504			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	2	73.7	16	1497	-	209249
2	3	97.4	16	1754	1613	378386
3	3	91.7	16	1702	1462	548411
4	1	66.2	16	-	-	17733
5	2	70.8	16	1821	-	187952
6	1	52.3	16	-	-	359277
7	2	78.9	16	1984	-	528886
8	2	70.9	16	1358	-	700166
9	2	75.6	16	1430	-	167197
10	1	59.1	16	-	-	338262
11	2	77	16	1304	-	508324
12	2	67.9	16	1083	-	678689
13	2	81.2	16	1932	-	146031
14	2	78.7	16	1121	-	316923
15	1	63.3	16	-	-	488056
16	2	68.9	16	1423	-	657326
17	1	59.3	16	-	-	125509
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19						
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Trial Number:			12			Detection (Yes/No)
Number of Bursts in Trial:			19			
Chirp Center Frequency:			5505			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	98.9	19	1680	1488	263736
2	2	82.3	19	1855	-	416459
3	3	86.7	19	1400	1919	567902
4	3	89.7	19	1068	1282	92979
5	3	98.6	19	1194	1461	245155
6	2	71.1	19	1789	-	397609
7	1	55.9	19	-	-	551431
8	2	67.9	19	1372	-	74413
9	3	84.4	19	1107	1443	226559
10	1	58.8	19	-	-	380056
11	1	65.6	19	-	-	533408
12	2	78.5	19	1704	-	55547
13	2	82.3	19	1686	-	207876
14	3	90.1	19	1071	1266	359771
15	3	90.2	19	1089	1950	511297
16	2	83.1	19	1406	-	36803
17	1	58.8	19	-	-	189652
18	2	77	19	1657	-	341809
19	1	55	19	-	-	495737
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DFS Radar Parameters
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Channel 100 Bandwidth 20MHz

Trial Number:			13			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5503			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	58.1	13	-	-	22911
2	1	52.1	13	-	-	216473
3	1	59.9	13	-	-	410004
4	1	60.2	13	-	-	603671
5	3	95.9	13	1906	1608	794160
6	2	79.9	13	1859	-	192251
7	2	78.5	13	1917	-	385590
8	1	53.8	13	-	-	579862
9	1	64.7	13	-	-	773423
10	1	61.4	13	-	-	168898
11	2	83.2	13	1858	-	361606
12	3	84.7	13	1677	1638	553866
13	3	88.7	13	1528	1058	747241
14	2	78.3	13	1951	-	144710
15	2	69.3	13	1717	-	337856
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Trial Number:			14			Detection (Yes/No)
Number of Bursts in Trial:			12			
Chirp Center Frequency:			5502			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	2	75.3	10	1612	-	664275
2	1	56.3	10	-	-	907886
3	2	67.7	10	1185	-	151316
4	1	55.6	10	-	-	393746
5	2	75.2	10	1267	-	635093
6	2	76.3	10	1305	-	876993
7	3	85.7	10	1362	1924	121278
8	3	98.4	10	1550	1249	362696
9	3	86.4	10	1439	1046	604342
10	3	93.6	10	1031	1452	846453
11	1	63.3	10	-	-	91871
12	3	92.4	10	1673	1322	333050
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DFS Radar Parameters
FCC Radar Type 5
Channel 100 Bandwidth 20MHz

Trial Number:			15			Detection (Yes/No)
Number of Bursts in Trial:			19			
Chirp Center Frequency:			5505			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	93.3	18	1912	1535	361323
2	2	69.1	18	1794	-	515261
3	3	86.9	18	1152	1148	39025
4	3	84.9	18	1948	1118	190900
5	2	72.3	18	1916	-	343941
6	1	51.7	18	-	-	497624
7	1	58.3	18	-	-	20319
8	1	60.8	18	-	-	172999
9	1	57.1	18	-	-	325872
10	3	88.9	18	1964	1489	475841
11	2	72	18	1297	-	1489
12	3	90.9	18	1566	1370	153647
13	1	59.8	18	-	-	307096
14	2	70	18	1291	-	458804
15	2	67.2	18	1881	-	610798
16	3	91.2	18	1832	1661	134759
17	1	56.5	18	-	-	288306
18	1	51.2	18	-	-	441296
19	2	74.1	18	1245	-	592780
20						

Trial Number:			16			Detection (Yes/No)
Number of Bursts in Trial:			14			
Chirp Center Frequency:			5502			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	2	76.9	12	1140	-	158286
2	1	50.2	12	-	-	366024
3	1	62.9	12	-	-	573452
4	1	64.7	12	-	-	780619
5	3	83.8	12	1097	1621	132455
6	1	65.4	12	-	-	340207
7	1	53.2	12	-	-	548208
8	1	51.7	12	-	-	755333
9	2	78.7	12	1168	-	107117
10	2	72.4	12	1343	-	314500
11	1	53.8	12	-	-	522447
12	2	73.6	12	1553	-	728517
13	2	66.7	12	1122	-	81611
14	2	82.5	12	1019	-	288948
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DFS Radar Parameters
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Channel 100 Bandwidth 20MHz

Trial Number:			17			Detection (Yes/No)
Number of Bursts in Trial:			20			
Chirp Center Frequency:			5506			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	87.6	20	1055	1840	345766
2	3	85.2	20	1541	1408	490019
3	3	84.8	20	1889	1463	39073
4	2	77.9	20	1460	-	183923
5	2	76.5	20	1485	-	328777
6	1	60.9	20	-	-	474728
7	2	83	20	1010	-	21394
8	2	80.4	20	1752	-	165992
9	2	67.5	20	1181	-	310973
10	1	62.1	20	-	-	456884
11	3	86.4	20	1966	1263	3515
12	3	84.3	20	1188	1788	147928
13	2	76.9	20	1537	-	293225
14	3	95.8	20	1298	1844	436922
15	1	55.2	20	-	-	584015
16	1	59	20	-	-	130832
17	3	94.5	20	1700	1283	274684
18	3	91.9	20	1978	1165	418579
19	3	85.2	20	1551	1189	563464
20	2	69.5	20	1224	-	112787

Trial Number:			18			Detection (Yes/No)
Number of Bursts in Trial:			12			
Chirp Center Frequency:			5502			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	86.4	10	1918	1455	429224
2	3	92.2	10	1719	1895	670241
3	2	80.4	10	1899	-	912880
4	1	54.3	10	-	-	158603
5	1	53.1	10	-	-	400824
6	2	69.4	10	1546	-	641915
7	2	69.1	10	1639	-	883823
8	3	100	10	1438	1595	128373
9	2	79.6	10	1705	-	370379
10	3	88.4	10	1579	1623	611194
11	1	53.3	10	-	-	855665
12	1	65.3	10	-	-	98897
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DFS Radar Parameters
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Channel 100 Bandwidth 20MHz

Trial Number:			19			Detection
Number of Bursts in Trial:			14			(Yes/No)
Chirp Center Frequency:			5502			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	55.3	12	-	-	292143
2	1	58.3	12	-	-	499633
3	2	72.3	12	1039	-	706377
4	3	84.8	12	1761	1721	58989
5	2	82.5	12	1431	-	266161
6	1	63.3	12	-	-	474469
7	2	80	12	1913	-	680544
8	3	90.3	12	1853	1123	33519
9	3	91.1	12	1783	1172	240319
10	3	96.6	12	1036	1385	447400
11	2	82.7	12	1990	-	654516
12	1	50.7	12	-	-	8083
13	2	78.4	12	1109	-	215435
14	3	99.5	12	1965	1869	421325
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Trial Number:			20			Detection
Number of Bursts in Trial:			12			(Yes/No)
Chirp Center Frequency:			5502			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	88.6	10	1067	1927	733725
2	1	57.4	10	-	-	977882
3	3	96.6	10	1658	1324	221197
4	2	69.7	10	1945	-	462915
5	2	77.9	10	1317	-	705071
6	1	62	10	-	-	947923
7	3	88.4	10	1077	1366	191373
8	3	97.3	10	1896	1367	432561
9	3	96.2	10	1787	1672	674004
10	3	95.4	10	1892	1414	915842
11	1	54.8	10	-	-	162176
12	2	80.4	10	1436	-	403553
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DFS Radar Parameters
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Channel 100 Bandwidth 20MHz

Trial Number:			21			Detection (Yes/No)
Number of Bursts in Trial:			16			
Chirp Center Frequency:			5496			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	2	74.7	15	1611	-	483470
2	1	57.1	15	-	-	666072
3	3	91.9	15	1475	1276	98810
4	2	83.1	15	1772	-	279914
5	1	50.7	15	-	-	462536
6	2	79.2	15	1600	-	642324
7	1	58.7	15	-	-	76831
8	2	71	15	1567	-	257785
9	2	79	15	1960	-	438554
10	2	68.5	15	1428	-	620397
11	2	73.5	15	1352	-	54310
12	2	70.5	15	1115	-	235506
13	2	76.6	15	1300	-	417036
14	2	81.2	15	1675	-	597974
15	1	61.8	15	-	-	32086
16	3	94.9	15	1206	1860	212751
17						
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Trial Number:			22			Detection (Yes/No)
Number of Bursts in Trial:			12			
Chirp Center Frequency:			5499			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	2	78.5	9	1698	-	526149
2	3	89.8	9	1962	1167	767135
3	1	59.4	9	-	-	12955
4	2	79.6	9	1890	-	254612
5	2	76	9	1811	-	496588
6	1	53.6	9	-	-	739728
7	2	80.9	9	1053	-	980872
8	1	61.6	9	-	-	225249
9	1	53.4	9	-	-	467279
10	1	59.9	9	-	-	709720
11	1	60.4	9	-	-	951847
12	3	91.4	9	1726	1227	194839
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DFS Radar Parameters
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Channel 100 Bandwidth 20MHz

Trial Number:			23			Detection
Number of Bursts in Trial:			20			(Yes/No)
Chirp Center Frequency:			5494			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	2	77	20	1363	-	261858
2	1	58.1	20	-	-	407646
3	1	62.1	20	-	-	552319
4	2	76.9	20	1236	-	99107
5	2	80	20	1852	-	243514
6	1	52	20	-	-	389464
7	3	88.6	20	1995	1905	531093
8	2	72.9	20	1387	-	81159
9	3	98.5	20	1746	1389	225245
10	1	57.9	20	-	-	371906
11	3	95.9	20	1870	1066	514197
12	1	53.5	20	-	-	63561
13	3	92	20	1654	1458	207510
14	1	57.3	20	-	-	353638
15	2	70.5	20	1586	-	497515
16	2	70	20	1664	-	45553
17	3	84	20	1630	1176	189821
18	2	76.1	20	1057	-	335330
19	3	93.2	20	1018	1340	478825
20	3	96.8	20	1614	1817	27594

Trial Number:			24			Detection
Number of Bursts in Trial:			14			(Yes/No)
Chirp Center Frequency:			5498			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	50.1	12	-	-	247117
2	3	93.5	12	1081	1413	453362
3	2	68.8	12	1577	-	660875
4	1	56.3	12	-	-	14140
5	3	86	12	1108	1987	220734
6	2	75.2	12	1536	-	428367
7	1	54.4	12	-	-	636681
8	2	71.1	12	1243	-	843157
9	2	76.2	12	1770	-	195585
10	2	80.2	12	1209	-	403231
11	2	79.7	12	1214	-	610202
12	3	90.9	12	1862	1601	815229
13	2	68.7	12	1441	-	170267
14	2	67.4	12	1313	-	377306
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DFS Radar Parameters
FCC Radar Type 5
Channel 100 Bandwidth 20MHz

Trial Number:			25			Detection (Yes/No)
Number of Bursts in Trial:			13			
Chirp Center Frequency:			5498			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	94	11	1748	1941	628071
2	2	70.8	11	1201	-	853391
3	1	56.3	11	-	-	156223
4	3	96.7	11	1163	1332	378734
5	3	90.6	11	1582	1498	601331
6	2	74.5	11	1281	-	825462
7	3	92.6	11	1669	1222	128265
8	3	89	11	1135	1380	351161
9	3	96.5	11	1822	1602	573425
10	2	70.5	11	1178	-	798431
11	3	94	11	1629	1956	100737
12	1	55.8	11	-	-	324661
13	3	87.7	11	1963	1164	546278
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Trial Number:			26			Detection (Yes/No)
Number of Bursts in Trial:			8			
Chirp Center Frequency:			5500			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	2	68.6	5	1161	-	1253842
2	2	83.1	5	1315	-	119486
3	1	60.9	5	-	-	482958
4	2	77.7	5	1158	-	845641
5	2	77.4	5	1510	-	1208428
6	2	66.8	5	1323	-	74748
7	1	63.7	5	-	-	438300
8	3	91.2	5	1681	1275	800152
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DFS Radar Parameters
FCC Radar Type 5
Channel 100 Bandwidth 20MHz

Trial Number:			27			Detection (Yes/No)
Number of Bursts in Trial:			17			
Chirp Center Frequency:			5496			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	83.6	16	1195	1000	545865
2	3	89.4	16	1627	1656	14067
3	1	55.8	16	-	-	184953
4	3	90.9	16	1554	1998	353759
5	1	54.7	16	-	-	526388
6	3	97.7	16	1202	1250	694806
7	2	67.5	16	1434	-	163568
8	3	96.7	16	1469	1268	333410
9	2	68.3	16	1954	-	504006
10	2	78.3	16	1082	-	675297
11	1	55	16	-	-	142890
12	3	84.9	16	1936	1199	312479
13	2	74.6	16	1856	-	482953
14	1	63.3	16	-	-	655022
15	3	99.8	16	1515	1120	121457
16	1	63.6	16	-	-	292606
17	3	87.3	16	1051	1831	461322
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Trial Number:			28			Detection (Yes/No)
Number of Bursts in Trial:			19			
Chirp Center Frequency:			5495			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	85.6	19	1078	1015	565136
2	2	68.6	19	1780	-	89970
3	1	54.2	19	-	-	243121
4	1	61.2	19	-	-	396034
5	3	97.1	19	1969	1100	546225
6	3	98.3	19	1699	1622	70998
7	1	62.4	19	-	-	224093
8	2	80.2	19	1769	-	376127
9	3	87.5	19	1448	1179	527806
10	3	85.8	19	1348	1472	52247
11	3	88.1	19	1124	1631	204582
12	1	65.3	19	-	-	357941
13	1	52.5	19	-	-	510977
14	1	52.3	19	-	-	33698
15	2	74.1	19	1200	-	186023
16	1	54.9	19	-	-	339327
17	2	76.2	19	1502	-	491053
18	1	60.4	19	-	-	14858
19	2	81.5	19	1103	-	167387
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DFS Radar Parameters
FCC Radar Type 5
Channel 100 Bandwidth 20MHz

Trial Number:			29			Detection
Number of Bursts in Trial:			12			(Yes/No)
Chirp Center Frequency:			5498			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	50.5	10	-	-	507709
2	1	55.7	10	-	-	750249
3	3	85.8	10	1002	1967	989003
4	2	76.9	10	1474	-	235634
5	2	75.1	10	1052	-	477675
6	3	92.3	10	1486	1492	718312
7	2	78.1	10	1757	-	960895
8	3	92.2	10	1252	1713	205370
9	3	89	10	1706	1411	446940
10	2	70.9	10	1620	-	689225
11	1	63.1	10	-	-	932305
12	1	55.3	10	-	-	176231
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Trial Number:			30			Detection
Number of Bursts in Trial:			18			(Yes/No)
Chirp Center Frequency:			5496			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	83.4	17	1205	1801	277485
2	3	97.3	17	1826	1635	437880
3	3	90.4	17	1986	1674	598445
4	3	91.8	17	1151	1802	97088
5	3	98.2	17	1977	1766	257251
6	1	59.5	17	-	-	419893
7	2	80	17	1137	-	580724
8	3	86.5	17	1128	1828	77366
9	3	91.1	17	1599	1442	238032
10	3	93.5	17	1373	1087	398605
11	1	60.7	17	-	-	562025
12	2	67.2	17	1405	-	57684
13	1	61.8	17	-	-	219083
14	2	79.4	17	1667	-	379234
15	2	81.4	17	1464	-	540896
16	1	65.7	17	-	-	37916
17	2	76	17	1255	-	198794
18	2	81	17	1668	-	359754
19						
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DFS Radar Parameters
FCC Radar Type 1
Channel 102 Bandwidth 40MHz

Trial #	Pulse Repetition Frequency Number (1 to 23)	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)	Detection (Yes / No)
1	17	1193.32	838	Yes
2	16	1222.49	818	Yes
3	14	1285.35	778	Yes
4	1	1930.50	518	Yes
5	9	1474.93	678	Yes
6	10	1432.66	698	Yes
7	20	1113.59	898	Yes
8	21	1089.32	918	Yes
9	15	1253.13	798	Yes
10	12	326.16	3066	Yes
11	11	1392.76	718	Yes
12	13	1319.26	758	Yes
13	22	1066.10	938	Yes
14	4	1730.10	578	Yes
15	19	1138.95	878	Yes
16		496.77	2013	Yes
17		780.64	1281	Yes
18		851.06	1175	Yes
19		1293.66	773	Yes
20		1123.60	890	Yes
21		364.96	2740	Yes
22		378.21	2644	Yes
23		733.14	1364	Yes
24		660.50	1514	Yes
25		904.16	1106	Yes
26		1779.36	562	Yes
27		823.05	1215	Yes
28		483.09	2070	Yes
29		705.72	1417	Yes
30		497.27	2011	Yes

DFS Radar Parameters
FCC Radar Type 2
Channel 102 Bandwidth 40MHz

Trial #	Number Pulses per Burst	Pulse Width (Microseconds)	Pulse Repetition Interval (Microseconds)	Detection (Yes / No)
1	27	3.40	204	Yes
2	27	3.50	220	Yes
3	27	3.70	184	Yes
4	25	2.40	163	Yes
5	27	3.50	207	Yes
6	24	1.90	225	Yes
7	26	2.80	155	Yes
8	25	2.50	213	Yes
9	28	4.20	156	Yes
10	28	4.20	176	Yes
11	24	1.70	194	Yes
12	26	2.80	175	Yes
13	29	4.70	210	Yes
14	25	2.40	180	Yes
15	24	2.10	191	Yes
16	28	4.00	189	Yes
17	28	4.30	198	Yes
18	27	3.40	164	Yes
19	26	3.10	161	Yes
20	23	1.30	215	Yes
21	29	4.80	197	Yes
22	28	4.20	187	Yes
23	25	2.20	205	Yes
24	24	1.70	212	Yes
25	27	3.30	202	Yes
26	25	2.30	150	Yes
27	25	2.60	199	Yes
28	24	1.50	203	Yes
29	29	4.70	193	Yes
30	25	2.60	151	Yes

DFS Radar Parameters
FCC Radar Type 3
Channel 102 Bandwidth 40MHz

Trial #	Number Pulses per Burst	Pulse Width (Microseconds)	Pulse Repetition Interval (Microseconds)	Detection (Yes / No)
1	17	8.40	392	Yes
2	17	8.50	201	Yes
3	18	8.70	241	Yes
4	17	7.40	331	Yes
5	17	8.50	385	Yes
6	16	6.90	322	Yes
7	17	7.80	372	Yes
8	17	7.50	488	Yes
9	18	9.20	285	Yes
10	18	9.20	359	Yes
11	16	6.70	340	Yes
12	17	7.80	323	Yes
13	18	9.70	244	Yes
14	17	7.40	412	Yes
15	16	7.10	321	Yes
16	18	9.00	279	Yes
17	18	9.30	301	Yes
18	17	8.40	256	Yes
19	17	8.10	397	Yes
20	16	6.30	254	Yes
21	18	9.80	387	Yes
22	18	9.20	314	Yes
23	16	7.20	373	Yes
24	16	6.70	427	Yes
25	17	8.30	383	Yes
26	16	7.30	493	Yes
27	17	7.60	278	Yes
28	16	6.50	286	Yes
29	18	9.70	446	Yes
30	17	7.60	495	Yes

DFS Radar Parameters
FCC Radar Type 4
Channel 102 Bandwidth 40MHz

Trial #	Number Pulses per Burst	Pulse Width (Microseconds)	Pulse Repetition Interval (Microseconds)	Detection (Yes / No)
1	15	16.40	392	Yes
2	15	16.60	201	Yes
3	15	17.10	241	Yes
4	13	14.20	331	Yes
5	15	16.60	385	Yes
6	13	13.00	322	Yes
7	14	14.90	372	Yes
8	13	14.30	488	Yes
9	15	18.10	285	Yes
10	16	18.30	359	Yes
11	12	12.70	340	Yes
12	14	15.00	323	Yes
13	16	19.40	244	Yes
14	13	14.20	412	Yes
15	13	13.40	321	Yes
16	15	17.80	279	Yes
17	16	18.50	301	Yes
18	14	16.30	256	Yes
19	14	15.70	397	Yes
20	12	11.80	254	Yes
21	16	19.50	387	Yes
22	16	18.20	314	Yes
23	13	13.80	373	Yes
24	12	12.50	427	Yes
25	14	16.30	383	Yes
26	13	13.90	493	Yes
27	14	14.70	278	Yes
28	12	12.30	286	Yes
29	16	19.30	446	Yes
30	14	14.60	495	Yes

DFS Radar Parameters
FCC Radar Type 5
Channel 102 Bandwidth 40MHz

Trial Number:			1			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5510			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	2	80	14	1427	-	672183
2	2	81.3	14	1937	-	68338
3	3	83.7	14	1036	1356	261372
4	2	67.8	14	1801	-	454588
5	2	81	14	1380	-	648408
6	1	61.1	14	-	-	44635
7	2	72	14	1894	-	237854
8	2	68.5	14	1555	-	431021
9	3	89.1	14	1503	1060	623504
10	3	90.1	14	1266	1565	20694
11	1	59.3	14	-	-	214441
12	2	72.3	14	1163	-	407701
13	3	96.4	14	1160	1312	599519
14	2	67.7	14	1659	-	793704
15	1	63.4	14	-	-	190644
16						
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Trial Number:			2			Detection (Yes/No)
Number of Bursts in Trial:			16			
Chirp Center Frequency:			5510			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	87.4	15	1985	1343	358574
2	3	91.4	15	1941	1940	539190
3	2	79.4	15	1786	-	721573
4	2	76.3	15	1675	-	155848
5	1	54.6	15	-	-	337806
6	3	97.1	15	1688	1226	516995
7	3	90.1	15	1934	1584	697677
8	1	65.5	15	-	-	133940
9	1	58.7	15	-	-	315356
10	2	79.3	15	1623	-	496007
11	1	66.2	15	-	-	678162
12	2	70.6	15	1395	-	111365
13	1	57.3	15	-	-	292944
14	3	95.7	15	1260	1308	472883
15	2	70.1	15	1751	-	654888
16	2	68.8	15	1750	-	89012
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DFS Radar Parameters
FCC Radar Type 5
Channel 102 Bandwidth 40MHz

Trial Number:			3			Detection
Number of Bursts in Trial:			16			(Yes/No)
Chirp Center Frequency:			5510			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	64.6	15	-	-	270743
2	3	94	15	1041	1551	450441
3	3	93.8	15	1862	1617	630809
4	1	53	15	-	-	66859
5	1	63	15	-	-	248292
6	1	58.1	15	-	-	429862
7	2	74.6	15	1849	-	609709
8	2	66.7	15	1112	-	44374
9	1	64.5	15	-	-	225924
10	3	86.3	15	1831	1963	405581
11	1	57.7	15	-	-	589399
12	3	89.2	15	1597	1625	22011
13	3	94.1	15	1484	1520	202907
14	3	90.7	15	1178	1731	383893
15	2	81.2	15	1177	-	565695
16	1	54.4	15	-	-	748493
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18						
19						
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Trial Number:			4			Detection
Number of Bursts in Trial:			12			(Yes/No)
Chirp Center Frequency:			5510			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	96.9	10	1489	1309	241220
2	3	91.7	10	1744	1100	482676
3	1	61.6	10	-	-	726405
4	2	76.7	10	1440	-	966543
5	2	80.5	10	1634	-	211750
6	1	64.2	10	-	-	454274
7	3	87.7	10	1244	1498	694300
8	3	88	10	1620	1418	936113
9	3	90	10	1322	1671	181637
10	1	65.7	10	-	-	424403
11	2	75	10	1595	-	665564
12	3	88.6	10	1241	1038	906344
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DFS Radar Parameters
FCC Radar Type 5
Channel 102 Bandwidth 40MHz

Trial Number:			5			Detection (Yes/No)
Number of Bursts in Trial:			16			
Chirp Center Frequency:			5510			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	64.7	14	-	-	114216
2	3	90.5	14	1881	1805	294174
3	1	64.6	14	-	-	477330
4	2	72.9	14	1219	-	658130
5	2	68.9	14	1394	-	91607
6	2	71.3	14	1410	-	272709
7	3	94.8	14	1216	1844	452852
8	2	78.4	14	1935	-	635140
9	1	52.5	14	-	-	69456
10	1	64.7	14	-	-	251079
11	1	50.3	14	-	-	432784
12	2	79.3	14	1240	-	613444
13	2	66.7	14	1033	-	47023
14	1	62.6	14	-	-	228584
15	1	61.8	14	-	-	410240
16	2	68.3	14	1176	-	590733
17						
18						
19						
20						

Trial Number:			6			Detection (Yes/No)
Number of Bursts in Trial:			10			
Chirp Center Frequency:			5510			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	89.3	8	1655	1660	39515
2	1	50.8	8	-	-	330209
3	2	71.4	8	1169	-	620307
4	2	68	8	1347	-	910488
5	3	98.1	8	1574	1824	3824
6	1	61.8	8	-	-	294463
7	2	73.7	8	1238	-	584800
8	1	65.6	8	-	-	876100
9	3	84	8	1783	1101	1163390
10	3	93.5	8	1938	1316	257946
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DFS Radar Parameters
FCC Radar Type 5
Channel 102 Bandwidth 40MHz

Trial Number:			7			Detection (Yes/No)
Number of Bursts in Trial:			13			
Chirp Center Frequency:			5510			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	88.4	12	1740	1253	421059
2	1	50.3	12	-	-	645652
3	1	56.3	12	-	-	869498
4	1	55.8	12	-	-	171464
5	1	63	12	-	-	394874
6	3	97.3	12	1415	1218	616941
7	2	83.2	12	1757	-	839875
8	3	86	12	1950	1829	143287
9	1	52	12	-	-	367206
10	2	74	12	1588	-	589931
11	2	71.6	12	1981	-	812303
12	3	84.9	12	1406	1996	115896
13	2	70.2	12	1355	-	339409
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Trial Number:			8			Detection (Yes/No)
Number of Bursts in Trial:			12			
Chirp Center Frequency:			5510			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	2	72.8	10	1651	-	609521
2	3	96	10	1113	1653	849852
3	1	52.8	10	-	-	96246
4	1	51.9	10	-	-	338280
5	2	82.2	10	1129	-	580181
6	3	91.3	10	1247	1754	819926
7	2	82.4	10	1078	-	66328
8	1	59.9	10	-	-	308449
9	2	67.8	10	1533	-	549860
10	1	52.4	10	-	-	792705
11	2	69.3	10	1012	-	36504
12	3	98.7	10	1889	1213	277860
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DFS Radar Parameters
FCC Radar Type 5
Channel 102 Bandwidth 40MHz

Trial Number:			9			Detection (Yes/No)
Number of Bursts in Trial:			18			
Chirp Center Frequency:			5510			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	89.2	17	1358	1593	345314
2	3	94.4	17	1282	1924	506256
3	1	56.9	17	-	-	4480
4	3	90.6	17	1943	1734	164774
5	1	52.9	17	-	-	327342
6	2	66.7	17	1920	-	486956
7	3	99.1	17	1672	1826	646662
8	3	88.9	17	1385	1156	145407
9	2	75.5	17	1699	-	306271
10	2	82.9	17	1061	-	467690
11	3	94.5	17	1333	1492	627431
12	2	72.1	17	1570	-	125722
13	3	96.8	17	1027	1280	286499
14	1	51.6	17	-	-	448457
15	1	53	17	-	-	610372
16	3	96.2	17	1170	1470	105717
17	2	80.7	17	1850	-	266622
18	1	60.6	17	-	-	428794
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Trial Number:			10			Detection (Yes/No)
Number of Bursts in Trial:			18			
Chirp Center Frequency:			5510			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	87.8	17	1804	1585	586766
2	3	96.7	17	1429	1700	85916
3	1	54.4	17	-	-	247555
4	2	80.6	17	1702	-	408135
5	3	98.7	17	1042	1586	567856
6	2	72.1	17	1606	-	66270
7	3	95.3	17	1848	1767	226404
8	1	59.9	17	-	-	389087
9	3	91.6	17	1610	1846	547916
10	2	74.3	17	1485	-	46478
11	1	51.6	17	-	-	207901
12	3	83.5	17	1886	1599	367378
13	2	70.6	17	1662	-	529605
14	3	97.9	17	1600	1059	26613
15	3	87	17	1234	1475	187293
16	1	57.1	17	-	-	349415
17	2	73.8	17	1019	-	510173
18	1	52.9	17	-	-	6834
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Trial Number:			11			Detection (Yes/No)
Number of Bursts in Trial:			10			
Chirp Center Frequency:			5493			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	2	76.3	8	1958	-	302397
2	3	95.5	8	1820	1961	591779
3	3	99.2	8	1289	1250	882776
4	1	57.2	8	-	-	1175418
5	2	72.6	8	1371	-	266941
6	3	96	8	1445	1441	556528
7	3	94.8	8	1279	1296	847052
8	3	90	8	1535	1229	1136378
9	1	51.4	8	-	-	231288
10	2	80.7	8	2000	-	521265
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Trial Number:			12			Detection (Yes/No)
Number of Bursts in Trial:			13			
Chirp Center Frequency:			5495			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	55.1	12	-	-	625203
2	2	80.5	12	1896	-	847094
3	3	88.3	12	1095	1979	149840
4	3	86.3	12	1781	1023	372840
5	2	79.2	12	1153	-	596891
6	1	57.2	12	-	-	820890
7	1	64.7	12	-	-	122871
8	2	72.6	12	1189	-	346102
9	3	94.3	12	1110	1458	568163
10	1	58.6	12	-	-	793002
11	3	95.8	12	1179	1478	95042
12	3	84.8	12	1582	1132	318033
13	3	95.3	12	1335	1327	540955
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Trial Number:			13			Detection (Yes/No)
Number of Bursts in Trial:			20			
Chirp Center Frequency:			5498			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	93.1	19	1643	1008	495154
2	2	75.2	19	1509	-	43936
3	2	74.7	19	1003	-	188762
4	3	87.3	19	1040	1074	332964
5	3	92	19	1022	1564	477483
6	1	62.3	19	-	-	26139
7	3	96.7	19	1559	1051	170677
8	3	85.2	19	1071	1621	315062
9	3	89.7	19	1513	1946	458834
10	2	77.8	19	1202	-	8247
11	1	50.1	19	-	-	153350
12	2	69.8	19	1276	-	297845
13	3	85.2	19	1056	1311	441762
14	1	61.5	19	-	-	588544
15	2	80.5	19	1332	-	135226
16	2	74.1	19	1248	-	280152
17	1	58.4	19	-	-	425998
18	3	85.9	19	1374	1802	567538
19	1	58.6	19	-	-	117744
20	2	70.7	19	1853	-	262167

Trial Number:			14			Detection (Yes/No)
Number of Bursts in Trial:			12			
Chirp Center Frequency:			5494			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	64.5	10	-	-	680652
2	1	54.7	10	-	-	922542
3	1	61.1	10	-	-	166485
4	3	86.1	10	1791	1544	407151
5	1	65.3	10	-	-	651028
6	1	54.2	10	-	-	892611
7	1	63.3	10	-	-	136633
8	2	83.1	10	1265	-	378333
9	1	64.3	10	-	-	620961
10	1	62.8	10	-	-	862753
11	1	65.2	10	-	-	106775
12	1	57.2	10	-	-	349004
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Trial Number:			15			Detection (Yes/No)
Number of Bursts in Trial:			11			
Chirp Center Frequency:			5494			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	91.5	9	1064	1471	643522
2	1	50.2	9	-	-	909445
3	1	56	9	-	-	83996
4	2	82.1	9	1413	-	347780
5	3	97.9	9	1712	1522	610579
6	1	58.6	9	-	-	876281
7	1	52.7	9	-	-	51458
8	2	77.6	9	1698	-	315031
9	1	54.7	9	-	-	579662
10	3	95.6	9	1932	1426	841227
11	1	65.5	9	-	-	18891
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Trial Number:			16			Detection (Yes/No)
Number of Bursts in Trial:			17			
Chirp Center Frequency:			5496			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	52.6	16	-	-	183144
2	3	88.1	16	1572	1315	352560
3	1	66.4	16	-	-	524988
4	3	94.1	16	1479	1692	692146
5	3	95.8	16	1741	1828	161129
6	3	84.3	16	1808	1827	331350
7	3	98.6	16	1158	1984	501195
8	3	85.8	16	1102	1491	671571
9	2	72.8	16	1319	-	140764
10	3	87.1	16	1444	1307	310635
11	1	64.1	16	-	-	482301
12	2	80.7	16	1696	-	651736
13	3	88.3	16	1186	1412	119546
14	1	64.1	16	-	-	290858
15	3	88.7	16	1649	1733	459096
16	2	71.9	16	1133	-	631531
17	3	87.7	16	1261	1777	98463
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Trial Number:			17			Detection
Number of Bursts in Trial:			18			(Yes/No)
Chirp Center Frequency:			5497			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	99	18	1577	1378	253568
2	1	63.5	18	-	-	415775
3	2	70.8	18	1684	-	575616
4	2	76.9	18	1464	-	73369
5	1	62.5	18	-	-	234669
6	3	92.9	18	1187	1184	394495
7	2	78.3	18	1562	-	556510
8	3	85	18	1142	1841	53387
9	1	55.4	18	-	-	214823
10	3	98.4	18	1683	1609	374581
11	2	76.2	18	1901	-	535702
12	3	99.8	18	1636	1706	33608
13	2	83.1	18	1851	-	194581
14	2	81	18	1015	-	356108
15	1	65.9	18	-	-	517965
16	2	69	18	1339	-	13864
17	3	89.3	18	1422	1468	174451
18	1	58.4	18	-	-	336487
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Trial Number:			18			Detection
Number of Bursts in Trial:			15			(Yes/No)
Chirp Center Frequency:			5496			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	98	14	1743	1417	594927
2	3	99	14	1121	1736	788520
3	1	60.2	14	-	-	186371
4	2	67.6	14	1792	-	379285
5	3	98.9	14	1199	1480	572179
6	1	65.8	14	-	-	767909
7	2	77	14	1275	-	162330
8	3	92.5	14	1760	1965	354722
9	2	70.2	14	1638	-	548961
10	2	77.4	14	1729	-	742368
11	2	69.5	14	1025	-	138531
12	2	67.8	14	1115	-	332049
13	2	68	14	1348	-	524963
14	1	59.2	14	-	-	720136
15	3	86.8	14	1912	1058	114522
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Trial Number:			19			Detection (Yes/No)
Number of Bursts in Trial:			14			
Chirp Center Frequency:			5495			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	65.1	13	-	-	330660
2	2	78.7	13	1223	-	537176
3	3	91.3	13	1661	1978	742490
4	2	74.8	13	1563	-	97381
5	3	88.7	13	1776	1166	304101
6	3	90.2	13	1679	1130	511095
7	3	95.3	13	1973	1220	717266
8	3	88.1	13	1123	1524	71816
9	1	59	13	-	-	279610
10	3	90.3	13	1075	1488	485800
11	3	85.9	13	1857	1062	692160
12	2	72.3	13	1703	-	46362
13	3	86	13	1026	1855	252986
14	3	89.7	13	1119	1652	460188
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Trial Number:			20			Detection (Yes/No)
Number of Bursts in Trial:			9			
Chirp Center Frequency:			5492			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	56	6	-	-	1041351
2	3	98.2	6	1447	1259	32453
3	1	61.7	6	-	-	355480
4	3	99	6	1914	1188	676952
5	1	55.6	6	-	-	1001241
6	3	90.7	6	1581	1715	1321285
7	2	73	6	1530	-	315343
8	2	77.5	6	1945	-	637712
9	2	81.3	6	1044	-	961099
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Trial Number:			21			Detection (Yes/No)
Number of Bursts in Trial:			20			
Chirp Center Frequency:			5522			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	64.7	20	-	-	577290
2	1	55	20	-	-	124085
3	3	99.9	20	1013	1233	268266
4	2	70	20	1819	-	413275
5	2	72.7	20	1031	-	558627
6	1	50.9	20	-	-	106071
7	1	65.4	20	-	-	251147
8	3	87.6	20	1970	1657	393874
9	2	80.4	20	1128	-	540698
10	2	66.9	20	1879	-	88040
11	1	63	20	-	-	233560
12	2	67.9	20	1159	-	377530
13	1	52.3	20	-	-	523476
14	2	74.7	20	1613	-	70193
15	3	94.3	20	1370	1222	214420
16	1	50.6	20	-	-	360487
17	2	68.3	20	1579	-	504427
18	1	52.7	20	-	-	52457
19	1	60.8	20	-	-	197511
20	1	51.1	20	-	-	343056

Trial Number:			22			Detection (Yes/No)
Number of Bursts in Trial:			18			
Chirp Center Frequency:			5523			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	2	77.3	17	1989	-	540889
2	1	63	17	-	-	38495
3	3	93.5	17	1868	1501	198868
4	3	91	17	1021	1689	359847
5	1	52.7	17	-	-	522443
6	1	64.2	17	-	-	18586
7	2	79.3	17	1697	-	179356
8	1	57.8	17	-	-	341436
9	2	68.8	17	1281	-	501654
10	1	62.3	17	-	-	663634
11	2	68.6	17	1929	-	159669
12	1	63.7	17	-	-	321317
13	3	87.7	17	1798	1856	480336
14	3	97.4	17	1068	1450	641772
15	2	76.5	17	1614	-	139873
16	2	69.7	17	1995	-	300729
17	3	88.8	17	1210	1195	461222
18	2	70.1	17	1986	-	622479
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Trial Number:			23			Detection (Yes/No)
Number of Bursts in Trial:			12			
Chirp Center Frequency:			5526			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	2	72.6	9	1032	-	180358
2	3	87.2	9	1344	1465	421640
3	3	93.7	9	1167	1285	663322
4	1	52.6	9	-	-	906755
5	1	55.4	9	-	-	150739
6	1	55.4	9	-	-	392892
7	2	72.9	9	1746	-	634153
8	2	71.7	9	1769	-	875531
9	1	53.6	9	-	-	120908
10	2	73.5	9	1118	-	362514
11	2	67.5	9	1018	-	604391
12	3	98.4	9	1968	1182	844674
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Trial Number:			24			Detection (Yes/No)
Number of Bursts in Trial:			10			
Chirp Center Frequency:			5527			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	87.4	7	1858	1859	108976
2	3	88	7	1111	1267	399071
3	1	62.1	7	-	-	690434
4	2	76.3	7	1748	-	979915
5	1	54	7	-	-	73576
6	1	51.6	7	-	-	364374
7	1	61.6	7	-	-	655063
8	1	58.8	7	-	-	945883
9	2	67.3	7	1303	-	37691
10	1	58.5	7	-	-	328386
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Trial Number:			25			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5524			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	2	71.7	14	1656	-	411641
2	1	57.6	14	-	-	605948
3	2	68.8	14	1073	-	1291
4	2	68	14	1637	-	194655
5	3	98.4	14	1028	1778	387156
6	3	99.4	14	1796	1898	579702
7	2	80.3	14	1789	-	773991
8	1	54.9	14	-	-	171002
9	3	98.2	14	1809	1628	363208
10	2	74.5	14	1907	-	557316
11	1	61.8	14	-	-	752248
12	3	98.3	14	1367	1314	146674
13	2	80.2	14	1787	-	340018
14	2	73.7	14	1476	-	533477
15	1	57.5	14	-	-	728288
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Trial Number:			26			Detection (Yes/No)
Number of Bursts in Trial:			12			
Chirp Center Frequency:			5526			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	2	74.6	10	1860	-	153947
2	1	57.5	10	-	-	396266
3	3	88.1	10	1002	1784	636787
4	2	68	10	1815	-	879345
5	2	81	10	1246	-	124333
6	1	60.5	10	-	-	366586
7	1	55.7	10	-	-	608906
8	3	90.4	10	1007	1231	848853
9	2	70.4	10	1728	-	94500
10	2	75	10	1576	-	336235
11	2	80.7	10	1481	-	578088
12	1	51.5	10	-	-	821196
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Trial Number:			27			Detection (Yes/No)
Number of Bursts in Trial:			13			
Chirp Center Frequency:			5526			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	61.3	11	-	-	59814
2	3	93.4	11	1806	1590	282400
3	2	74.9	11	1504	-	505982
4	1	58.1	11	-	-	730354
5	2	79.9	11	1545	-	32235
6	1	52.8	11	-	-	255745
7	1	64	11	-	-	479290
8	1	65.5	11	-	-	703087
9	3	86	11	1852	1747	4733
10	3	83.9	11	1352	1639	227439
11	3	87.5	11	1225	1921	450206
12	1	57	11	-	-	675296
13	2	73.6	11	1867	-	897213
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Trial Number:			28			Detection (Yes/No)
Number of Bursts in Trial:			9			
Chirp Center Frequency:			5527			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	91.4	7	1029	1526	289580
2	3	98.7	7	1014	1622	611749
3	2	75.3	7	1055	-	935205
4	3	93	7	1434	1249	1256866
5	3	86.5	7	1122	1817	249791
6	3	89.2	7	1771	1727	572003
7	1	57.7	7	-	-	896076
8	3	88.5	7	1519	1833	1216476
9	2	68.7	7	1650	-	210312
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DFS Radar Parameters
FCC Radar Type 5
Channel 102 Bandwidth 40MHz

Trial Number:			29			Detection (Yes/No)
Number of Bursts in Trial:			19			
Chirp Center Frequency:			5522			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	2	79.4	19	1497	-	251989
2	3	94.1	19	1575	1425	403184
3	2	73.6	19	1204	-	556954
4	3	90.8	19	1720	1236	80426
5	3	86.3	19	1439	1682	232275
6	3	98	19	1400	1162	385084
7	1	65.9	19	-	-	539537
8	2	67.2	19	1884	-	61785
9	3	98.4	19	1098	1952	213657
10	3	93.1	19	1557	1605	365581
11	2	67.7	19	1969	-	518651
12	3	97.8	19	1454	1164	42948
13	2	69	19	1373	-	195436
14	1	61.6	19	-	-	348788
15	2	73.3	19	1845	-	499992
16	1	66.3	19	-	-	24282
17	2	81.9	19	1624	-	176544
18	3	95.5	19	1500	1171	328444
19	1	66.1	19	-	-	482503
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Trial Number:			30			Detection (Yes/No)
Number of Bursts in Trial:			13			
Chirp Center Frequency:			5526			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	58.1	11	-	-	8012
2	2	71.6	11	1366	-	231232
3	3	90.8	11	1976	1630	453357
4	2	70.1	11	1811	-	677342
5	2	81	11	1821	-	900010
6	3	94.5	11	1045	1658	203398
7	3	89.6	11	1587	1301	426137
8	1	61.8	11	-	-	650856
9	2	80.4	11	1082	-	873145
10	3	97.4	11	1243	1596	175969
11	3	84	11	1375	1135	399004
12	3	85.9	11	1885	1930	620816
13	2	72.9	11	1161	-	845970
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DFS Radar Parameters
FCC Radar Type 1
Channel 106 Bandwidth 80MHz

Trial #	Pulse Repetition Frequency Number (1 to 23)	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)	Detection (Yes / No)
1	12	1355.01	738	Yes
2	17	1193.32	838	Yes
3	8	1519.76	658	Yes
4	6	1618.12	618	Yes
5	12	326.16	3066	Yes
6	18	1165.50	858	Yes
7	22	1066.10	938	Yes
8	11	1392.76	718	Yes
9	1	1930.50	518	Yes
10	21	1089.32	918	Yes
11	14	1285.35	778	Yes
12	7	1567.40	638	Yes
13	19	1138.95	878	Yes
14	9	1474.93	678	Yes
15	4	1730.10	578	Yes
16		671.14	1490	Yes
17		495.54	2018	Yes
18		514.14	1945	Yes
19		853.24	1172	Yes
20		576.70	1734	Yes
21		716.85	1395	Yes
22		695.89	1437	Yes
23		780.03	1282	Yes
24		655.31	1526	Yes
25		1748.25	572	Yes
26		1310.62	763	Yes
27		841.75	1188	Yes
28		798.72	1252	Yes
29		336.93	2968	Yes
30		809.72	1235	Yes

DFS Radar Parameters
FCC Radar Type 2
Channel 106 Bandwidth 80MHz

Trial #	Number Pulses per Burst	Pulse Width (Microseconds)	Pulse Repetition Interval (Microseconds)	Detection (Yes / No)
1	27	3.60	229	Yes
2	24	1.80	169	Yes
3	23	1.20	155	Yes
4	28	4.20	190	Yes
5	26	3.10	200	Yes
6	29	4.90	211	Yes
7	25	2.30	187	Yes
8	25	2.50	153	Yes
9	23	1.10	165	Yes
10	26	3.20	213	Yes
11	27	3.70	161	Yes
12	23	1.00	230	Yes
13	25	2.20	215	Yes
14	25	2.60	198	Yes
15	27	3.70	168	Yes
16	29	5.00	174	Yes
17	27	3.70	152	Yes
18	28	4.30	175	Yes
19	27	3.30	160	Yes
20	29	4.50	159	Yes
21	24	1.80	197	Yes
22	25	2.10	227	Yes
23	27	3.60	221	Yes
24	29	4.50	194	Yes
25	28	4.20	196	Yes
26	27	3.50	199	Yes
27	23	1.50	209	Yes
28	25	2.50	228	Yes
29	26	2.90	217	Yes
30	23	1.00	182	Yes

DFS Radar Parameters
FCC Radar Type 3
Channel 106 Bandwidth 80MHz

Trial #	Number Pulses per Burst	Pulse Width (Microseconds)	Pulse Repetition Interval (Microseconds)	Detection (Yes / No)
1	17	8.60	429	Yes
2	16	6.80	216	Yes
3	16	6.20	439	Yes
4	18	9.20	375	Yes
5	17	8.10	238	Yes
6	18	9.90	213	Yes
7	17	7.30	235	Yes
8	17	7.50	231	Yes
9	16	6.10	432	Yes
10	17	8.20	494	Yes
11	17	8.70	473	Yes
12	16	6.00	485	Yes
13	16	7.20	348	Yes
14	17	7.60	500	Yes
15	18	8.70	346	Yes
16	18	10.00	448	Yes
17	18	8.70	278	Yes
18	18	9.30	241	Yes
19	17	8.30	445	Yes
20	18	9.50	402	Yes
21	16	6.80	400	Yes
22	16	7.10	373	Yes
23	17	8.60	497	Yes
24	18	9.50	204	Yes
25	18	9.20	285	Yes
26	17	8.50	307	Yes
27	16	6.50	306	Yes
28	17	7.50	214	Yes
29	17	7.90	205	Yes
30	16	6.00	300	Yes

DFS Radar Parameters
FCC Radar Type 4
Channel 106 Bandwidth 80MHz

Trial #	Number Pulses per Burst	Pulse Width (Microseconds)	Pulse Repetition Interval (Microseconds)	Detection (Yes / No)
1	15	16.80	429	Yes
2	13	12.90	216	Yes
3	12	11.60	439	Yes
4	15	18.10	375	Yes
5	14	15.70	238	Yes
6	16	19.80	213	Yes
7	13	14.00	235	Yes
8	13	14.40	231	Yes
9	12	11.20	432	Yes
10	14	15.90	494	Yes
11	15	17.00	473	Yes
12	12	11.00	485	Yes
13	13	13.70	348	Yes
14	13	14.50	500	Yes
15	15	17.00	346	Yes
16	16	20.00	448	Yes
17	15	17.00	278	Yes
18	16	18.50	241	Yes
19	14	16.20	445	Yes
20	16	18.80	402	Yes
21	13	12.80	400	Yes
22	13	13.60	373	Yes
23	15	16.80	497	Yes
24	16	18.90	204	Yes
25	15	18.10	285	Yes
26	15	16.50	307	Yes
27	12	12.10	306	Yes
28	13	14.50	214	Yes
29	14	15.20	205	Yes
30	12	11.10	300	Yes

DFS Radar Parameters
FCC Radar Type 5
Channel 106 Bandwidth 80MHz

Trial Number:			1			Detection (Yes/No)
Number of Bursts in Trial:			16			
Chirp Center Frequency:			5530			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	2	82.3	15	1124	-	664030
2	1	60.6	15	-	-	97704
3	1	53.6	15	-	-	279273
4	3	89.2	15	1871	1825	458754
5	2	76.1	15	1834	-	641100
6	3	98.6	15	1755	1962	74986
7	2	66.8	15	1948	-	256098
8	2	68.7	15	1110	-	437820
9	1	51.4	15	-	-	620355
10	2	77	15	1942	-	52869
11	2	83.1	15	1887	-	233965
12	1	50.4	15	-	-	415983
13	1	65	15	-	-	597485
14	2	69.7	15	1032	-	30639
15	3	83.5	15	1061	1929	211416
16	3	99.9	15	1850	1737	391606
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Trial Number:			2			Detection (Yes/No)
Number of Bursts in Trial:			10			
Chirp Center Frequency:			5530			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	83.4	8	1567	1677	918874
2	3	91.4	8	1602	1475	13266
3	2	79	8	1529	-	303546
4	3	93.4	8	1245	1718	593412
5	1	60.3	8	-	-	885498
6	1	64.5	8	-	-	1175675
7	2	82.4	8	1259	-	267802
8	3	93.7	8	1109	1417	557840
9	3	89.1	8	1043	1848	847605
10	2	80.6	8	1435	-	1138779
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DFS Radar Parameters
FCC Radar Type 5
Channel 106 Bandwidth 80MHz

Trial Number:			3			Detection
Number of Bursts in Trial:			8			(Yes/No)
Chirp Center Frequency:			5530			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	56.5	6	-	-	290581
2	2	69.3	6	1445	-	653266
3	2	73.3	6	1385	-	1016596
4	1	50.6	6	-	-	1381069
5	1	55.7	6	-	-	245826
6	3	91	6	1331	1814	607726
7	3	84.2	6	1545	1017	970877
8	3	96.3	6	1890	1389	1332801
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Trial Number:			4			Detection
Number of Bursts in Trial:			18			(Yes/No)
Chirp Center Frequency:			5530			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	88	17	1903	1540	88784
2	2	67.4	17	1858	-	249876
3	3	91	17	1026	1408	410467
4	3	92.8	17	1765	1908	569638
5	3	83.9	17	1891	1641	69029
6	2	71.3	17	1518	-	230180
7	1	63	17	-	-	392201
8	3	85.6	17	1548	1534	551033
9	3	96.4	17	1349	1554	49284
10	1	55.3	17	-	-	210792
11	3	93.5	17	1092	1613	370613
12	2	69.2	17	1345	-	532297
13	3	88.5	17	1656	1907	29449
14	3	98.5	17	1097	1221	190368
15	1	51.4	17	-	-	352209
16	2	74.9	17	1359	-	512744
17	3	88.3	17	1639	1511	9686
18	2	75.5	17	1442	-	170773
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DFS Radar Parameters
FCC Radar Type 5
Channel 106 Bandwidth 80MHz

Trial Number:			5			Detection (Yes/No)
Number of Bursts in Trial:			14			
Chirp Center Frequency:			5530			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	87	13	1769	1134	426152
2	1	58	13	-	-	634898
3	1	58	13	-	-	842132
4	2	67.7	13	1094	-	194128
5	2	78.2	13	1672	-	401431
6	1	59.9	13	-	-	609564
7	1	50.1	13	-	-	817407
8	3	95.6	13	1609	1241	168426
9	3	92	13	1066	1862	375192
10	3	97.5	13	1481	1404	582177
11	3	95.5	13	1989	1297	788327
12	1	50.7	13	-	-	143349
13	2	71.2	13	1189	-	350209
14	3	92.2	13	1375	1965	555930
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Trial Number:			6			Detection (Yes/No)
Number of Bursts in Trial:			20			
Chirp Center Frequency:			5530			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	66.2	20	-	-	535643
2	2	68.8	20	1921	-	82159
3	2	81.8	20	1593	-	226961
4	1	66	20	-	-	372517
5	1	58.9	20	-	-	517462
6	3	90.6	20	1235	1959	64177
7	1	57.5	20	-	-	209505
8	1	57.7	20	-	-	354986
9	2	80.3	20	1197	-	498578
10	2	74.8	20	1407	-	46565
11	2	68.1	20	1777	-	191374
12	2	77	20	1692	-	335816
13	1	50.2	20	-	-	481873
14	2	69.8	20	1710	-	28660
15	3	92.1	20	1023	1158	173305
16	1	58.1	20	-	-	319144
17	2	67.8	20	1734	-	462839
18	3	98.4	20	1805	1296	10829
19	1	62.4	20	-	-	156080
20	2	80.2	20	1607	-	300344

DFS Radar Parameters
FCC Radar Type 5
Channel 106 Bandwidth 80MHz

Trial Number:			7			Detection
Number of Bursts in Trial:			12			(Yes/No)
Chirp Center Frequency:			5530			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	53.9	10	-	-	744823
2	2	76.1	10	1773	-	984888
3	3	88.3	10	1280	1337	229803
4	2	70.2	10	1994	-	471844
5	3	89.2	10	1126	1558	712599
6	2	81.1	10	1750	-	954990
7	3	92.7	10	1314	1894	200016
8	3	88.4	10	1394	1940	441507
9	2	79.4	10	1365	-	683948
10	1	65.5	10	-	-	927415
11	3	90.1	10	1763	1190	170253
12	3	95.7	10	1981	1935	411308
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Trial Number:			8			Detection
Number of Bursts in Trial:			12			(Yes/No)
Chirp Center Frequency:			5530			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	84.2	10	1505	1726	652771
2	1	51.3	10	-	-	897485
3	1	53	10	-	-	141060
4	2	69.7	10	1439	-	382741
5	1	66.6	10	-	-	625536
6	3	85.4	10	1971	1801	864601
7	1	66	10	-	-	111213
8	3	97.7	10	1715	1133	352414
9	2	68	10	1835	-	594537
10	2	79.2	10	1794	-	836216
11	2	77.8	10	1308	-	81206
12	2	83.2	10	1223	-	322965
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DFS Radar Parameters
FCC Radar Type 5
Channel 106 Bandwidth 80MHz

Trial Number:			9			Detection (Yes/No)
Number of Bursts in Trial:			8			
Chirp Center Frequency:			5530			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	99.6	5	1556	1366	847337
2	1	51.1	5	-	-	1212166
3	1	59.6	5	-	-	77282
4	2	80.3	5	1007	-	440416
5	1	53.4	5	-	-	804354
6	3	83.8	5	1544	1062	1165309
7	2	79.7	5	1319	-	32498
8	3	97.1	5	1516	1302	395160
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Trial Number:			10			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5530			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	88.4	13	1045	1644	403508
2	3	91	13	1624	1100	596039
3	3	88.2	13	1748	1120	788947
4	3	90.2	13	1756	1930	186292
5	2	80.5	13	1802	-	379823
6	1	61.5	13	-	-	574148
7	2	76.9	13	1599	-	766317
8	2	77.9	13	1551	-	163060
9	3	98	13	1976	1956	355216
10	2	69.2	13	1868	-	549188
11	2	78.3	13	1006	-	743287
12	1	64.7	13	-	-	139372
13	3	84.7	13	1009	1735	331980
14	2	72.5	13	1791	-	525248
15	3	92.9	13	1583	1420	718120
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DFS Radar Parameters
FCC Radar Type 5
Channel 106 Bandwidth 80MHz

Trial Number:			11			Detection (Yes/No)
Number of Bursts in Trial:			16			
Chirp Center Frequency:			5496			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	99	15	1629	1911	107814
2	2	66.8	15	1944	-	289167
3	2	72.4	15	1705	-	470503
4	3	91.6	15	1230	1272	651176
5	2	82.4	15	1725	-	85798
6	2	82.4	15	1254	-	267229
7	1	64.7	15	-	-	448856
8	1	62.2	15	-	-	630646
9	2	74.7	15	1172	-	63515
10	3	98.4	15	1991	1714	244056
11	1	55	15	-	-	426559
12	2	70.7	15	1247	-	607080
13	3	88	15	1087	1832	41119
14	2	71.4	15	1630	-	222286
15	1	62.3	15	-	-	404561
16	3	84.9	15	1201	1463	584106
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Trial Number:			12			Detection (Yes/No)
Number of Bursts in Trial:			8			
Chirp Center Frequency:			5492			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	95.7	5	1883	1669	37738
2	3	85.9	5	1111	1358	400631
3	3	93.1	5	1849	1170	763051
4	1	57.2	5	-	-	1128171
5	3	93.2	5	1219	1137	1489139
6	1	63.1	5	-	-	356540
7	1	62.9	5	-	-	719697
8	3	89.2	5	1687	1141	1080968
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DFS Radar Parameters
FCC Radar Type 5
Channel 106 Bandwidth 80MHz

Trial Number:			13			Detection (Yes/No)
Number of Bursts in Trial:			11			
Chirp Center Frequency:			5494			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	55	9	-	-	1051978
2	1	58.5	9	-	-	226549
3	3	88.1	9	1549	1377	489576
4	3	99.7	9	1562	1239	753403
5	3	98.9	9	1619	1557	1016286
6	1	50.9	9	-	-	194012
7	1	63	9	-	-	458103
8	3	98.6	9	1723	1872	719892
9	2	77	9	1645	-	985400
10	1	58.3	9	-	-	161544
11	1	60.7	9	-	-	425814
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Trial Number:			14			Detection (Yes/No)
Number of Bursts in Trial:			13			
Chirp Center Frequency:			5494			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	63.5	11	-	-	583381
2	2	81.1	11	1282	-	806424
3	3	92.3	11	1209	1817	108722
4	3	97.3	11	1693	1936	331261
5	1	64.6	11	-	-	556439
6	2	73.7	11	1283	-	778421
7	2	78.8	11	1335	-	81457
8	1	63.4	11	-	-	305161
9	3	91.8	11	1452	1240	527074
10	2	75.5	11	1632	-	750580
11	3	90.9	11	1033	1441	53931
12	3	88.9	11	1118	1525	276734
13	1	56.4	11	-	-	501089
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Trial Number:			15			Detection (Yes/No)
Number of Bursts in Trial:			16			
Chirp Center Frequency:			5496			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	85.7	15	1729	1655	585677
2	3	84.3	15	1851	1873	21443
3	2	82.7	15	1803	-	202595
4	2	78.8	15	1522	-	383640
5	3	91.7	15	1291	1040	564204
6	1	65.3	15	-	-	747259
7	3	99.7	15	1438	1709	180006
8	3	85.8	15	1520	1670	360634
9	1	53.9	15	-	-	543939
10	2	83.3	15	1796	-	723523
11	3	86.5	15	1960	1608	157657
12	2	73.8	15	1200	-	339451
13	3	94.3	15	1875	1215	519473
14	1	65	15	-	-	702531
15	1	63.4	15	-	-	135952
16	2	73.8	15	1615	-	316763
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Trial Number:			16			Detection (Yes/No)
Number of Bursts in Trial:			20			
Chirp Center Frequency:			5498			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	85.4	20	1432	1772	397009
2	1	56.5	20	-	-	543928
3	3	93.7	20	1199	1720	90441
4	2	79.7	20	1270	-	235477
5	1	60.7	20	-	-	381462
6	3	98.8	20	1427	1649	523878
7	1	53.8	20	-	-	73044
8	1	53.4	20	-	-	218295
9	3	88.6	20	1712	1535	361569
10	2	78.4	20	1262	-	507222
11	3	83.5	20	1790	1616	54803
12	1	64.4	20	-	-	200402
13	3	99.8	20	1064	1077	343958
14	2	71.1	20	1198	-	489671
15	1	63.7	20	-	-	37208
16	1	64.1	20	-	-	182384
17	2	69.7	20	1575	-	326620
18	2	81.7	20	1376	-	471975
19	1	64	20	-	-	19332
20	1	64.5	20	-	-	164567

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Trial Number:			17			Detection (Yes/No)
Number of Bursts in Trial:			16			
Chirp Center Frequency:			5496			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	2	68.2	15	1114	-	386891
2	3	84.2	15	1449	1150	566935
3	1	56.8	15	-	-	1834
4	1	61.7	15	-	-	183378
5	1	58.7	15	-	-	364822
6	2	74.9	15	1572	-	545223
7	1	59.6	15	-	-	727943
8	3	97.9	15	1767	1808	160167
9	1	55.7	15	-	-	342356
10	2	73.5	15	1012	-	523174
11	2	70.3	15	1127	-	704247
12	1	58.7	15	-	-	138696
13	1	65.4	15	-	-	320307
14	3	89.6	15	1383	1073	500310
15	1	56.3	15	-	-	683658
16	2	68.9	15	1913	-	115929
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Trial Number:			18			Detection (Yes/No)
Number of Bursts in Trial:			18			
Chirp Center Frequency:			5497			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	97.3	18	1057	1393	263730
2	1	59.2	18	-	-	426126
3	3	95.8	18	1416	1628	584689
4	3	87	18	1590	1162	83096
5	2	80.5	18	1147	-	244233
6	2	79.3	18	1278	-	405530
7	3	90.3	18	1831	1828	564371
8	1	63.2	18	-	-	63580
9	2	81.8	18	1020	-	224477
10	3	85.2	18	1244	1054	385167
11	3	86.1	18	1847	1457	544693
12	2	82.8	18	1374	-	43648
13	2	69.5	18	1044	-	204715
14	2	72.3	18	1499	-	365337
15	1	54.1	18	-	-	527989
16	1	62.6	18	-	-	23860
17	1	51	18	-	-	185058
18	3	98.9	18	1652	1897	344847
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Trial Number:			19			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5496			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	55.6	14	-	-	609572
2	1	51.1	14	-	-	4778
3	3	99.7	14	1307	1774	197623
4	2	81.9	14	1372	-	391555
5	2	70.9	14	1263	-	585121
6	3	85.8	14	1309	1839	776081
7	3	89.2	14	1498	1373	173895
8	1	56	14	-	-	368315
9	3	97.7	14	1229	1406	560089
10	1	65.1	14	-	-	755300
11	1	58.1	14	-	-	150670
12	2	74.8	14	1966	-	343335
13	3	99.1	14	1975	1635	535900
14	1	60.1	14	-	-	731719
15	1	64.8	14	-	-	126925
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Trial Number:			20			Detection (Yes/No)
Number of Bursts in Trial:			19			
Chirp Center Frequency:			5497			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	94.8	18	1174	1156	252008
2	2	66.9	18	1261	-	404813
3	1	60.5	18	-	-	558838
4	3	85.9	18	1250	1983	80860
5	2	77.1	18	1418	-	233633
6	3	84	18	1014	1433	385222
7	3	89	18	1001	1561	537565
8	3	94	18	1941	1192	62180
9	3	93.7	18	1746	1279	214371
10	2	79.9	18	1384	-	367451
11	2	73.5	18	1467	-	519979
12	3	88.9	18	1878	1480	43380
13	2	76.9	18	1612	-	195898
14	2	78.3	18	1336	-	348485
15	3	83.4	18	1113	1787	500161
16	2	69.3	18	1005	-	24799
17	1	57.6	18	-	-	177778
18	1	57.7	18	-	-	330336
19	1	66.5	18	-	-	483032
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Trial Number:			21			Detection (Yes/No)
Number of Bursts in Trial:			10			
Chirp Center Frequency:			5567			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	84	8	1473	1069	11392
2	1	55.2	8	-	-	302206
3	2	69.3	8	1362	-	592277
4	1	65.3	8	-	-	883646
5	3	88.3	8	1364	1733	1170604
6	1	60	8	-	-	266195
7	3	97.8	8	1035	1600	555808
8	2	74.5	8	1037	-	846578
9	2	81.6	8	1343	-	1137229
10	2	75.1	8	1658	-	230193
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Trial Number:			22			Detection (Yes/No)
Number of Bursts in Trial:			11			
Chirp Center Frequency:			5566			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	55.1	9	-	-	473544
2	1	56.9	9	-	-	737856
3	3	86.2	9	1740	1186	999330
4	2	75.9	9	1770	-	176649
5	2	68	9	1761	-	440626
6	2	74.7	9	1964	-	704155
7	1	55.4	9	-	-	969739
8	3	93.7	9	1421	1104	144042
9	2	76.8	9	1727	-	408012
10	2	73.9	9	1667	-	671625
11	1	64.8	9	-	-	937414
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Trial Number:			23			Detection (Yes/No)
Number of Bursts in Trial:			16			
Chirp Center Frequency:			5564			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	66.6	15	-	-	76898
2	1	57.2	15	-	-	258273
3	1	56	15	-	-	439868
4	1	51.9	15	-	-	621636
5	3	97.5	15	1933	1574	54257
6	3	96.9	15	1471	1236	235116
7	1	62.2	15	-	-	417564
8	2	77.7	15	1002	-	598500
9	1	64.2	15	-	-	32135
10	3	95.8	15	1327	1910	212631
11	1	50.4	15	-	-	395248
12	2	67.1	15	1699	-	575773
13	2	82.6	15	1202	-	9756
14	2	76.2	15	1682	-	191006
15	1	59.5	15	-	-	372733
16	2	75.5	15	1668	-	552952
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Trial Number:			24			Detection (Yes/No)
Number of Bursts in Trial:			19			
Chirp Center Frequency:			5563			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	51.5	18	-	-	619484
2	2	72.2	18	1316	-	141944
3	2	75.8	18	1128	-	294538
4	2	79.3	18	1760	-	446612
5	1	59.5	18	-	-	600263
6	1	57.3	18	-	-	123375
7	2	68.8	18	1514	-	275735
8	3	88.6	18	1728	1864	426715
9	2	73	18	1799	-	580000
10	3	87.4	18	1468	1999	103965
11	1	63	18	-	-	257562
12	1	58.9	18	-	-	410362
13	1	53.5	18	-	-	562859
14	2	78	18	1024	-	85630
15	2	75.7	18	1503	-	237836
16	2	80.9	18	1409	-	390536
17	3	83.8	18	1519	1915	541535
18	1	51.6	18	-	-	66923
19	2	67.3	18	1299	-	219366
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Trial Number:			25			Detection (Yes/No)
Number of Bursts in Trial:			18			
Chirp Center Frequency:			5563			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	98	17	1381	1565	391831
2	1	63.3	17	-	-	554331
3	1	63.4	17	-	-	50789
4	3	90.8	17	1539	1052	211167
5	1	63.1	17	-	-	373663
6	3	85.6	17	1564	1098	532233
7	3	96.9	17	1939	1173	30759
8	2	67.3	17	1388	-	191821
9	2	79.3	17	1547	-	352892
10	1	54.7	17	-	-	514618
11	3	89.9	17	1909	1845	10977
12	1	53.6	17	-	-	172367
13	3	99.7	17	1165	1370	332295
14	1	58.4	17	-	-	495178
15	3	99.2	17	1103	1792	653609
16	1	53.9	17	-	-	152457
17	2	71.4	17	1320	-	312989
18	1	50.9	17	-	-	474971
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Trial Number:			26			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5564			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	94.7	14	1795	1742	761118
2	1	55.3	14	-	-	159191
3	1	59.3	14	-	-	353003
4	3	88.4	14	1474	1642	544410
5	2	67.4	14	1183	-	739229
6	2	79	14	1492	-	135131
7	1	60.1	14	-	-	329068
8	3	83.9	14	1228	1508	521169
9	1	53.3	14	-	-	716054
10	2	74.1	14	1167	-	111280
11	3	86.3	14	1430	1021	304307
12	2	70.1	14	1476	-	497899
13	2	69.5	14	1793	-	690963
14	3	83.4	14	1495	1089	87364
15	2	80.9	14	2000	-	280572
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Trial Number:			27			Detection (Yes/No)
Number of Bursts in Trial:			9			
Chirp Center Frequency:			5567			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	58.8	7	-	-	792151
2	1	61.6	7	-	-	1115245
3	1	62.2	7	-	-	106366
4	3	88.2	7	1214	1204	428482
5	2	81.4	7	1258	-	751474
6	1	62.7	7	-	-	1075459
7	3	93.8	7	2000	1361	66422
8	1	62.7	7	-	-	389532
9	3	90	7	1952	1181	710903
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Trial Number:			28			Detection (Yes/No)
Number of Bursts in Trial:			13			
Chirp Center Frequency:			5566			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	89.5	11	1697	1643	714164
2	3	83.9	11	1182	1101	18498
3	2	83.1	11	1552	-	241780
4	3	83.8	11	1653	1893	463933
5	1	63.3	11	-	-	689308
6	1	50.4	11	-	-	912506
7	1	54.4	11	-	-	214435
8	2	74.1	11	1603	-	437420
9	1	54.3	11	-	-	661699
10	2	79.9	11	1487	-	883220
11	3	89.1	11	1139	1465	186439
12	3	96.4	11	1646	1527	409134
13	1	58	11	-	-	634334
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Trial Number:			29			Detection (Yes/No)
Number of Bursts in Trial:			14			
Chirp Center Frequency:			5565			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	1	59.6	12	-	-	796070
2	3	95.9	12	1082	1543	147627
3	3	84.4	12	1300	1798	354142
4	2	80.7	12	1341	-	562330
5	2	79.3	12	1395	-	769656
6	2	82.2	12	1716	-	122252
7	2	72.7	12	1995	-	329319
8	2	81.1	12	1507	-	536541
9	1	59.2	12	-	-	745085
10	3	85.2	12	1620	1779	96545
11	1	56.4	12	-	-	304385
12	2	72.7	12	1912	-	510970
13	3	90.8	12	1460	1531	717284
14	3	96.9	12	1546	1413	71099
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Trial Number:			30			Detection (Yes/No)
Number of Bursts in Trial:			8			
Chirp Center Frequency:			5568			Yes
Burst	Number of Pulses	Pulse Width (Microseconds)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Starting Location Within Interval (µsec)
1	3	87	5	1685	1265	487575
2	1	65.8	5	-	-	852135
3	3	90	5	1870	1633	1212725
4	3	88.3	5	1703	1512	80071
5	1	50.9	5	-	-	443716
6	3	92.7	5	1191	1827	805382
7	2	69.4	5	1116	-	1170042
8	3	98.9	5	1311	1117	35410
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