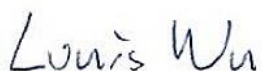


FCC DFS TEST REPORT

FCC ID : 2ADZRBEACON10
Equipment : NOKIA WiFi Beacon 10
Brand Name : NOKIA
Model Name : Beacon 10
Applicant : Nokia Shanghai Bell Co., Ltd.
No.388, Ningqiao Rd, Pilot Free Trade Zone,
Shanghai, 201206 P.R. China
Manufacturer : Nokia of America Corporation
2301 Sugar Bush Rd. Raleigh, NC 27612
Standard : FCC Part 15 Subpart E

The product was received on Mar. 14, 2023 and testing was performed from Mar. 16, 2023 to Mar. 31, 2023. 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 from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



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.)



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History of this test report

Report No.	Version	Description	Issue Date
FZ330612	01	Initial issue of report	May 11, 2023
FZ330612	02	1. Revise Brand Name and add appendix A 2. This report is an updated version, replacing the report issued on May 11, 2023.	Jun. 05, 2023

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	-

Conformity Assessment Condition:

The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Wei Chen

Report Producer: Doris Chen

1 General Description

1.1 Feature of Equipment Under Test

Product Feature
General Specs Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax and Wi-Fi 6GHz 802.11a/n/ac/ax.
Antenna Type <Ant. 1>: Dipole Antenna <Ant. 2>: Dipole Antenna <Ant. 3>: Dipole Antenna <Ant. 4>: Dipole Antenna <Ant. 5>: Dipole Antenna <Ant. 6>: Dipole Antenna <Ant. 7>: Dipole Antenna <Ant. 8>: Dipole Antenna

Antenna information		
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	Ant. 1: 2.17 Ant. 2: 3.25 Ant. 3: 2.70 Ant. 4: 2.83
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	Ant. 1: 1.52 Ant. 2: 3.26 Ant. 3: 2.81 Ant. 4: 2.39

Remark:

1. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.
2. All test items were performed with AC Adapter 1.
3. The radio can be configured in mesh mode.

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. DF02-HY

FCC Designation No.: TW1190

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	N15C1	PPD-QCNFA435	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 $\geq$ 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 $(-64\text{dBm}) + (1.52) [\text{dBi}] + 1 \text{ dB} = -61.48 \text{ dBm}$.

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
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the 99% power bandwidth See Note 3.
Note 1: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate <i>Channel</i> 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 <i>U-NII Detection Bandwidth</i> 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	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

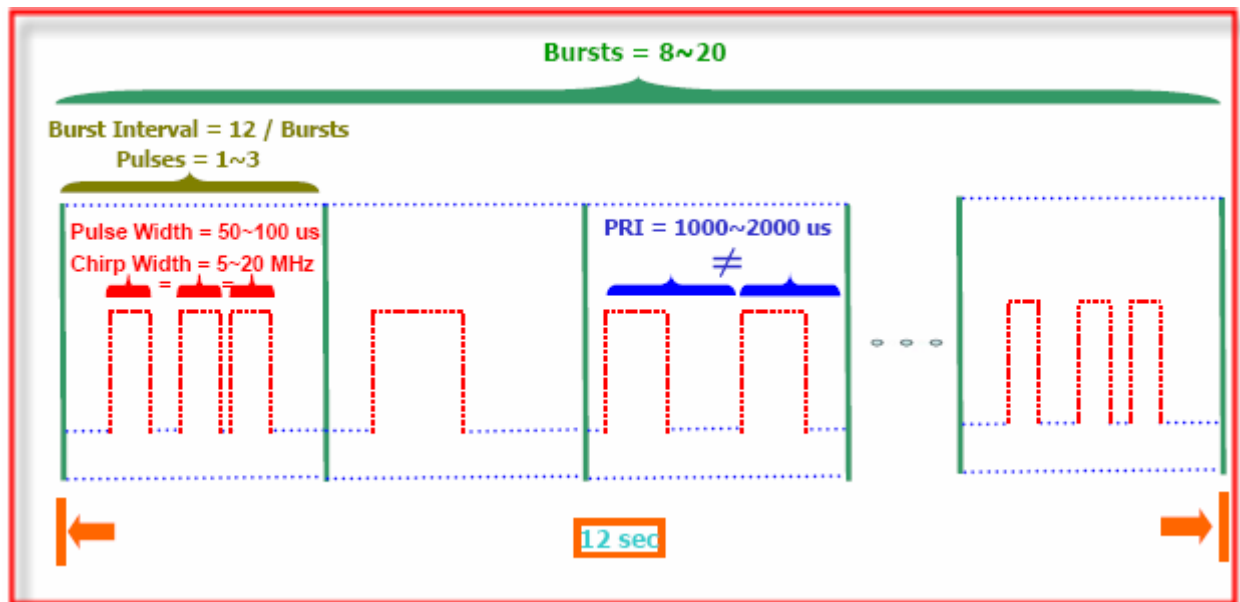
The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse radar test signal. If more than 30 waveforms are used for the Long Pulse radar test signal, then each additional waveform must also be unique and not repeated from the previous waveforms. Each 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) 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 $(12,000,000 / \text{Burst_Count})$ microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and $[(12,000,000 / \text{Burst_Count}) - (\text{Total Burst Length}) + (\text{One Random PRI Interval})]$ microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen independently.

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).

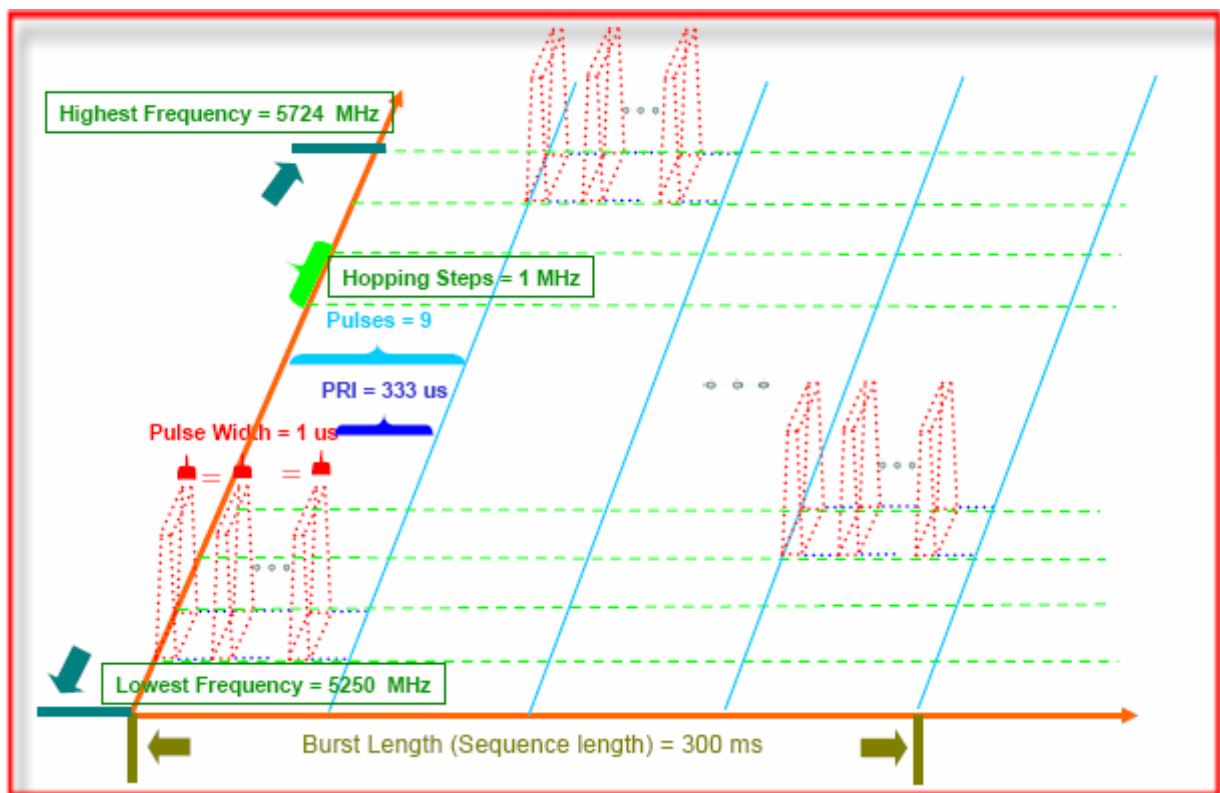


2.7 Frequency Hopping Radar Test Waveform

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.



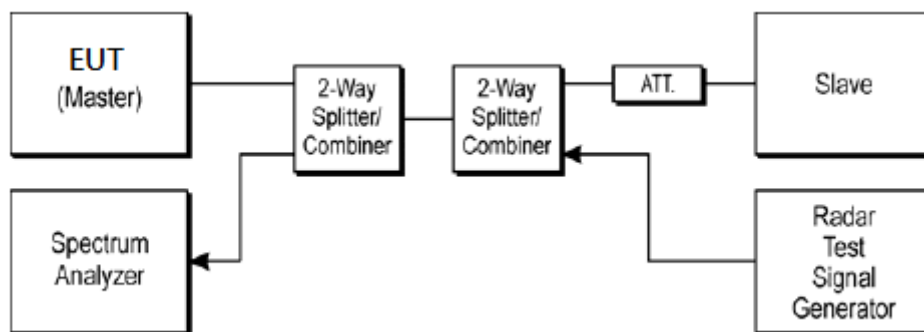
3 Calibration Setup and DFS Test Results

3.1 Calibration of Radar Waveform

3.1.1 Radar Waveform Calibration Procedure

The Interference Radar Detection Threshold Level is $(-64) + (1.52) \text{ [dBi]} + 1\text{dB} = -61.48 \text{ dBm}$ 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 $(-64) + (1.52) \text{ [dBi]} + 1\text{dB} = -61.48 \text{ dBm}$. Capture the spectrum analyzer plots on radar waveform.

3.1.2 Conducted Calibration Setup

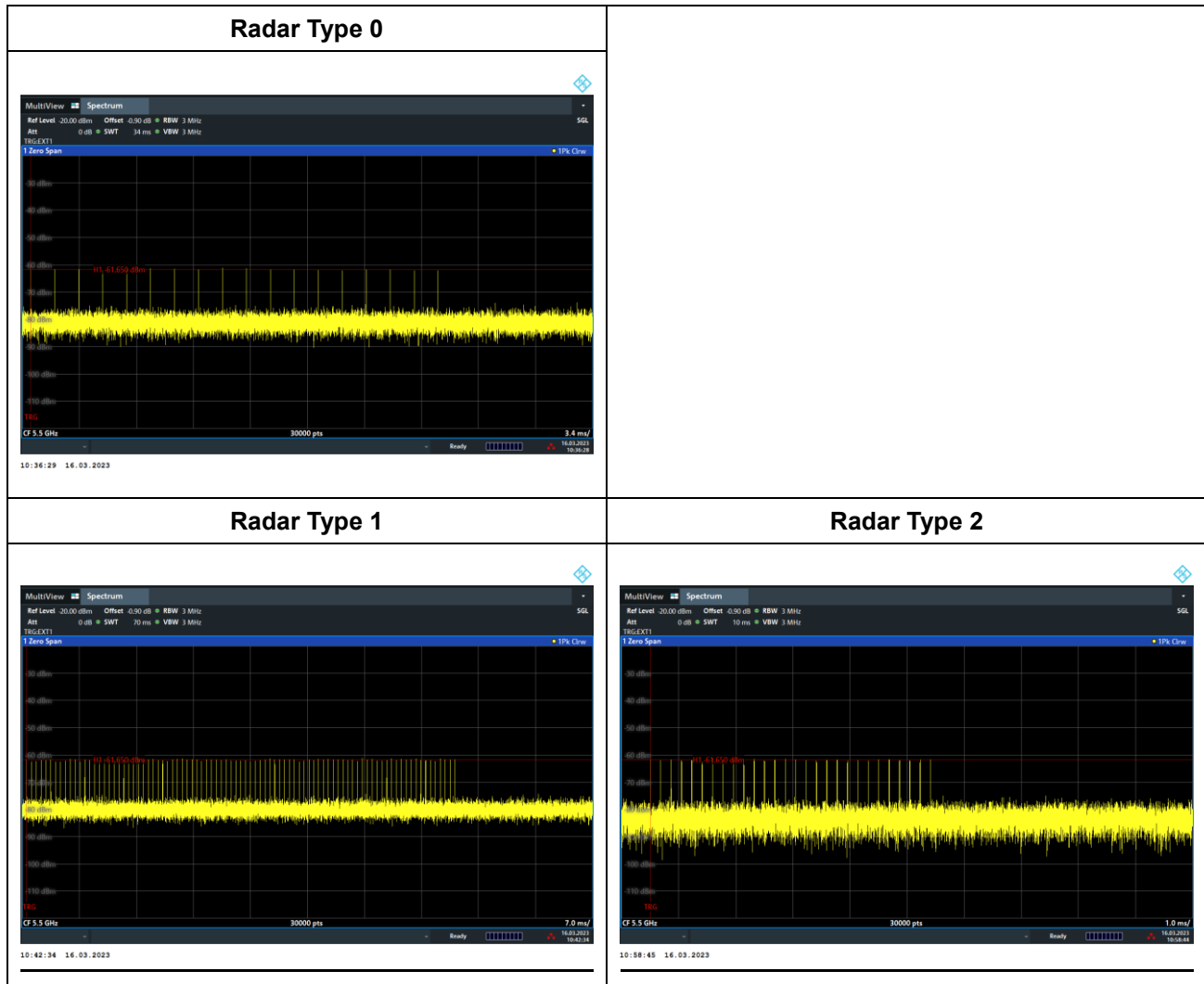


3.1.3 Calibration Deviation

There is no deviation with the original standard.

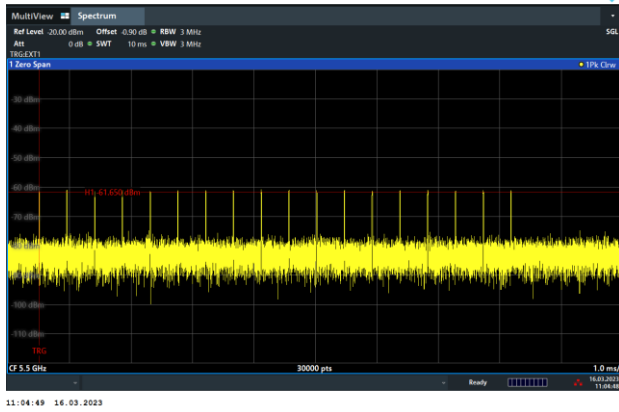
3.1.4 Radar Waveform Calibration Result

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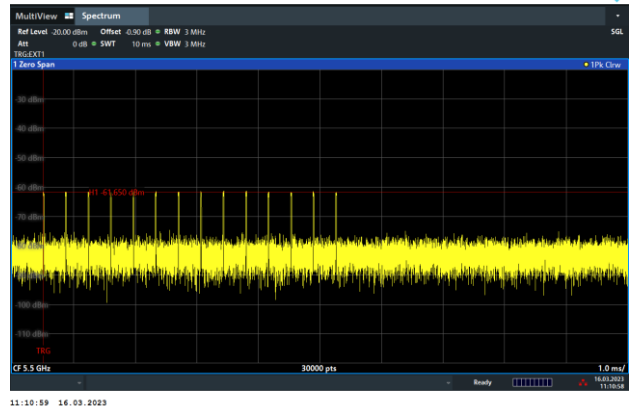




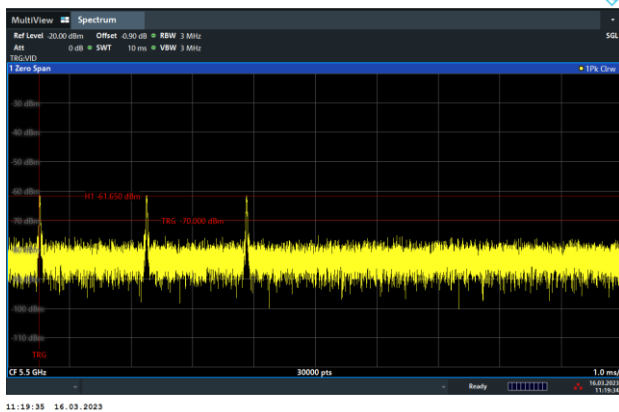
Radar Type 3



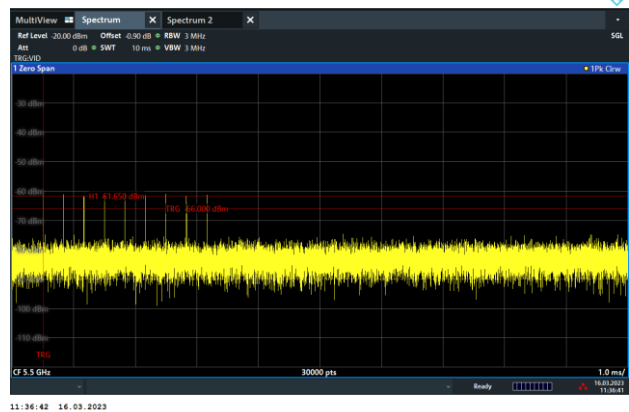
Radar Type 4



Single Burst of Radar Type 5



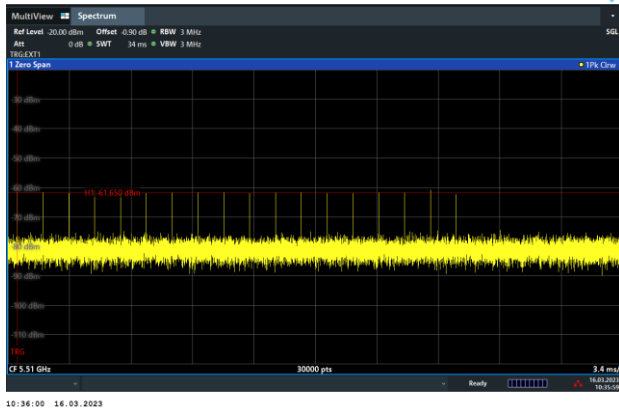
Single Burst of Radar Type 6



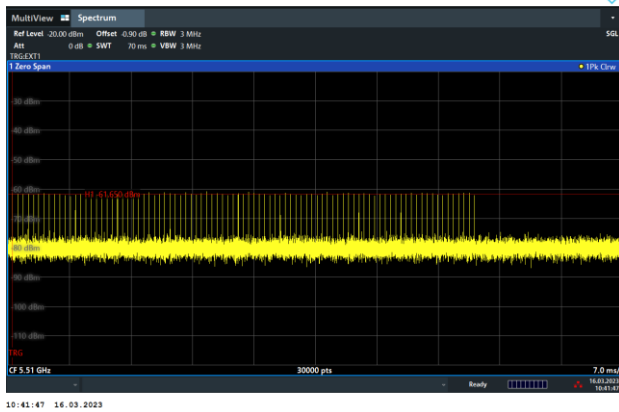


<40MHz / 5510MHz>

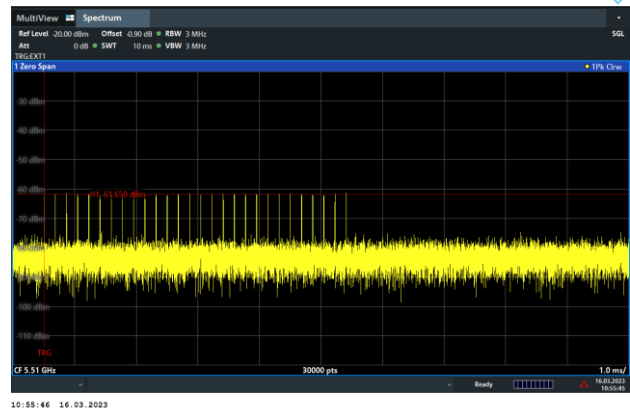
Radar Type 0



Radar Type 1

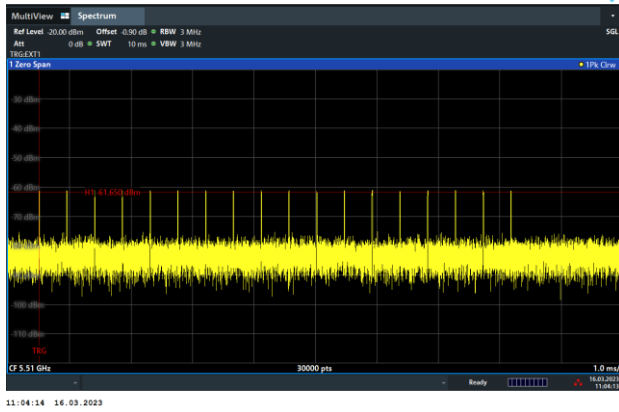


Radar Type 2

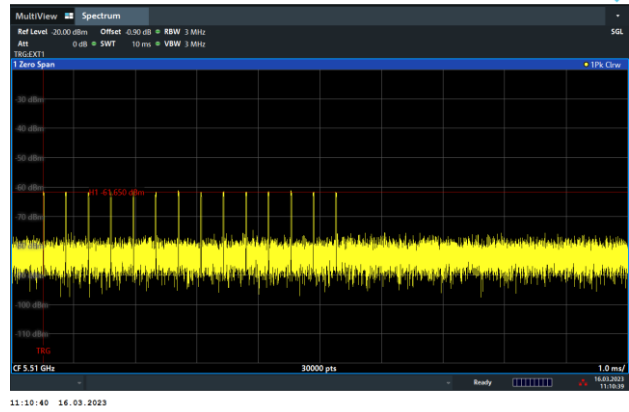




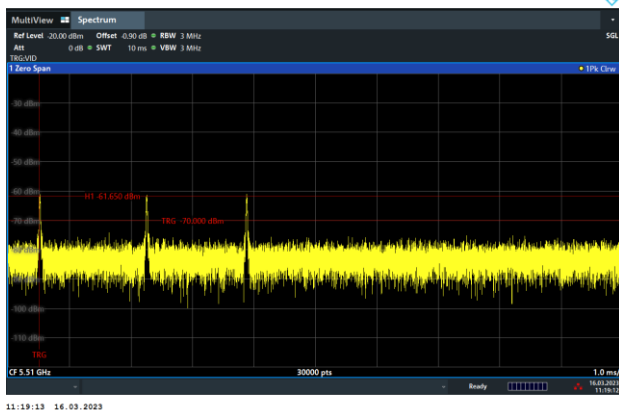
Radar Type 3



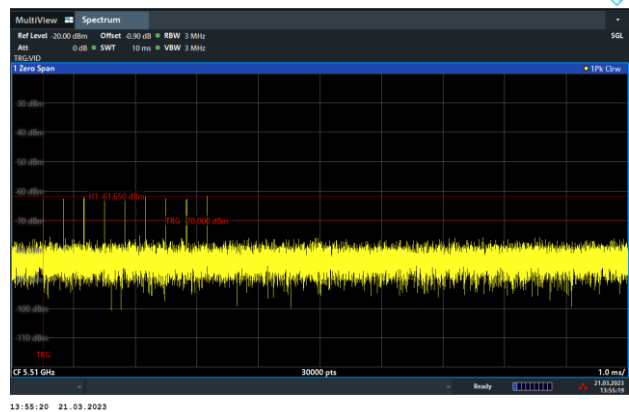
Radar Type 4



Single Burst of Radar Type 5



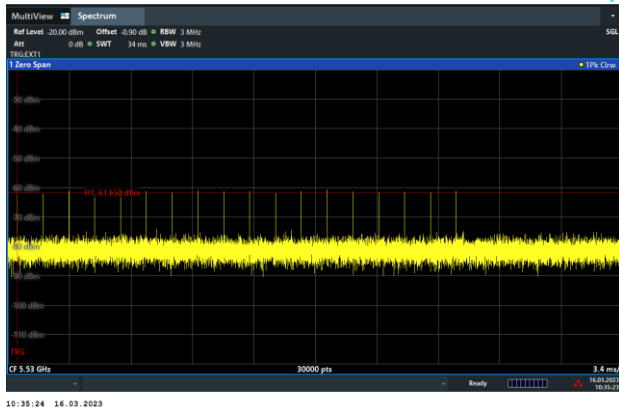
Single Burst of Radar Type 6



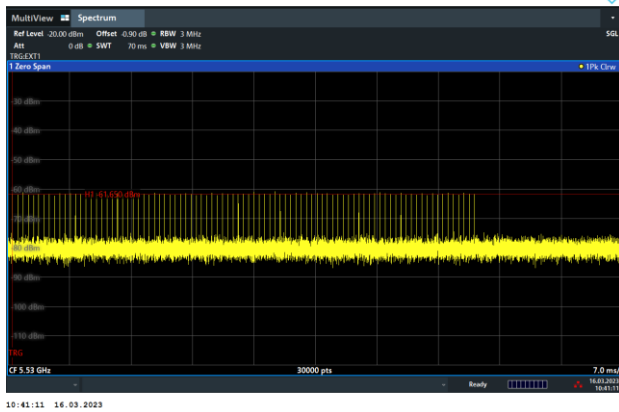


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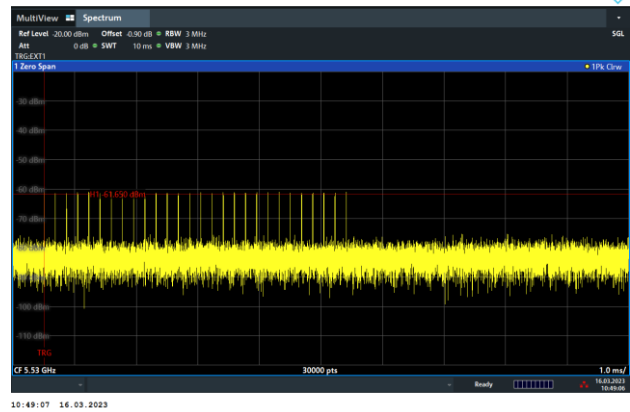
Radar Type 0



Radar Type 1

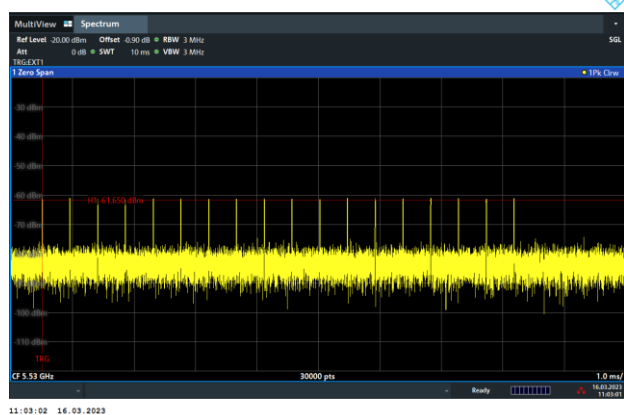


Radar Type 2

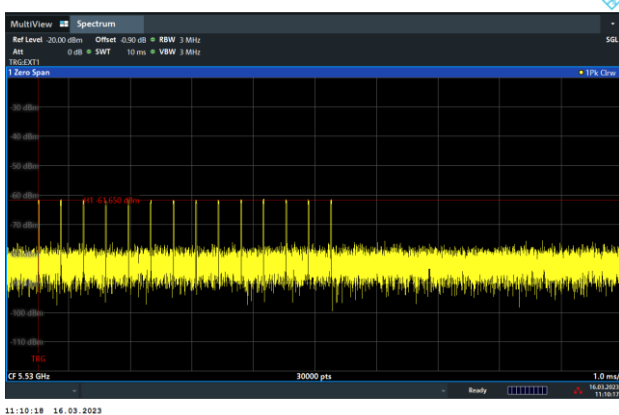




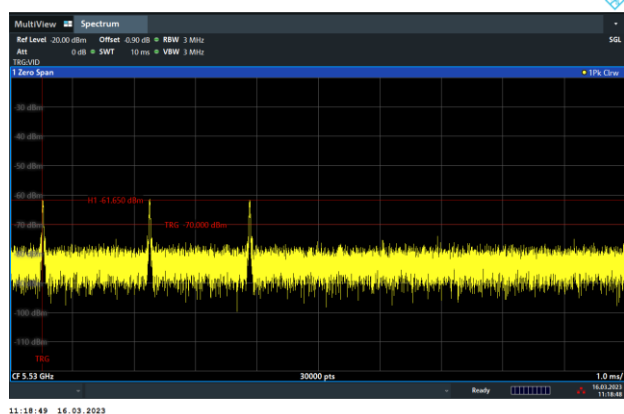
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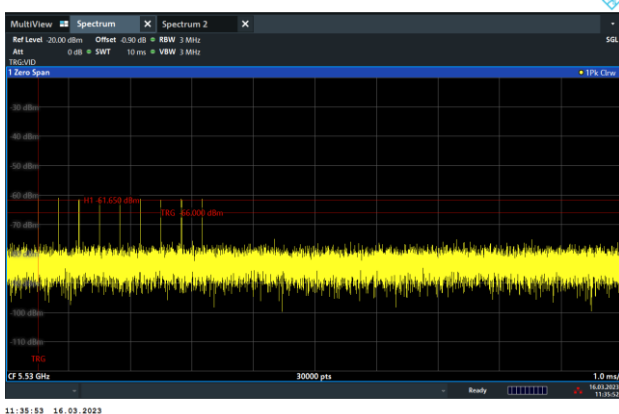
Radar Type 4



Single Burst of Radar Type 5



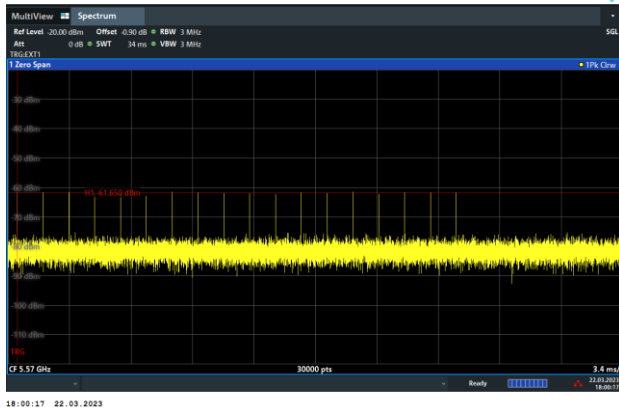
Single Burst of Radar Type 6



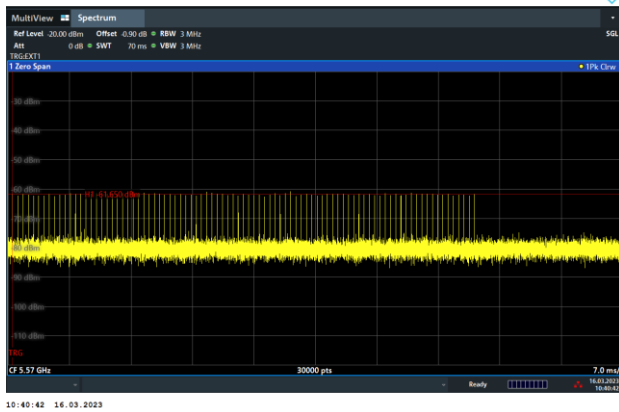


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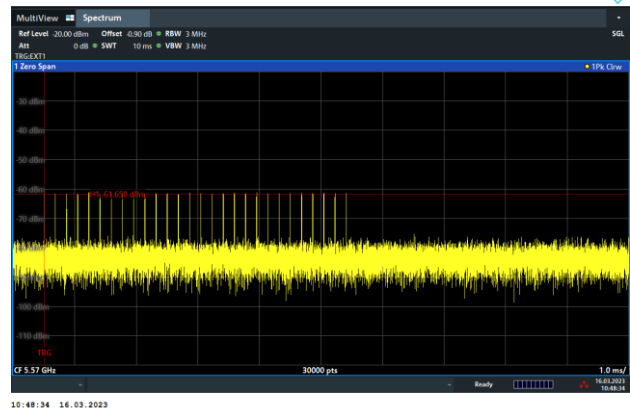
Radar Type 0



Radar Type 1

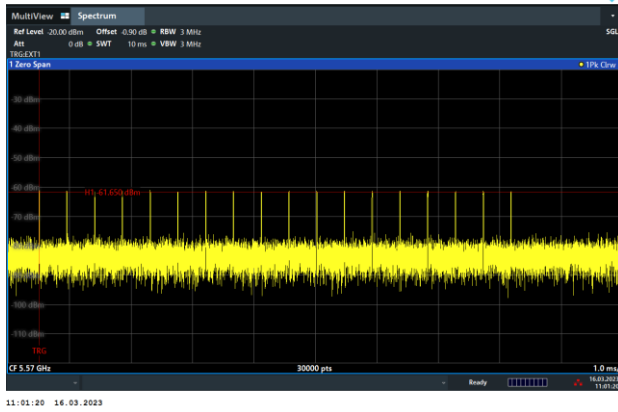


Radar Type 2

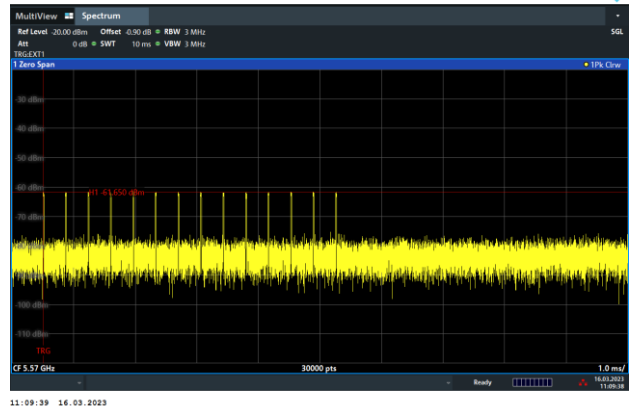




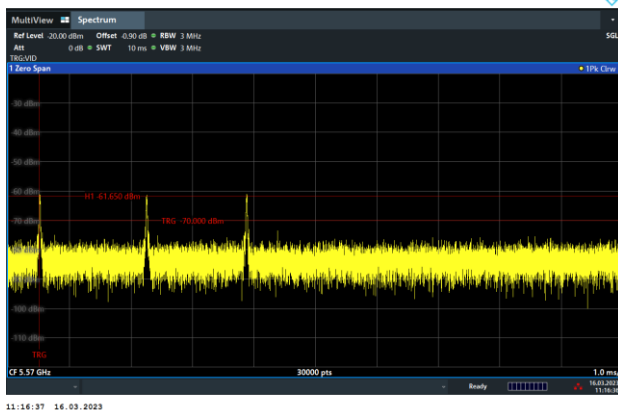
Radar Type 3



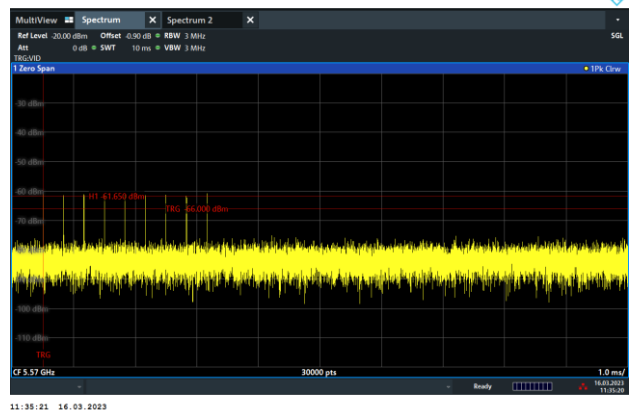
Radar Type 4



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.

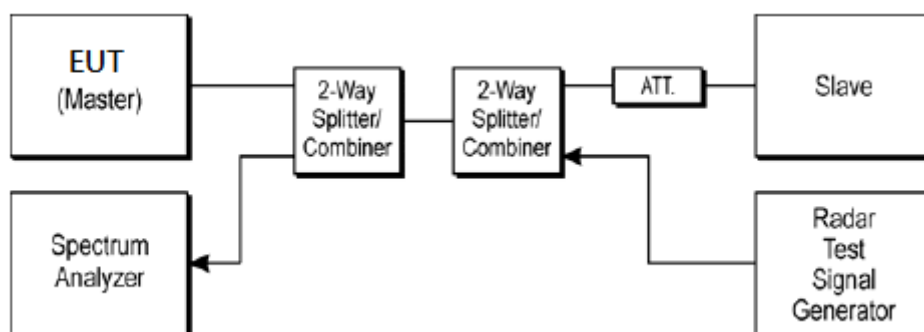
During the U-NII Detection Bandwidth detection test, radar type 0 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

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 F_H 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 F_L is not required to demonstrate compliance.
- (6) The U-NII Detection Bandwidth is calculated as follows:

$$U\text{-NII Detection Bandwidth} = F_H - F_L$$

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	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	F _L
5491	-9	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	90	
5492	-8	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5493	-7	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5494	-6	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	90	
5495	-5	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5500	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5505	+5	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5506	+6	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5507	+7	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5508	+8	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5509	+9	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5510	+10	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	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 = 19.446 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	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	F _L
5491	-19	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5492	-18	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5493	-17	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5494	-16	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5495	-15	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5500	-10	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	90	
5505	-5	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5510	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5515	+5	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5520	+10	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5525	+15	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5526	+16	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5527	+17	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5528	+18	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5529	+19	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5530	+20	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	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 = 38.160 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	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	90	F _L
5491	-39	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5492	-38	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5493	-37	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5494	-36	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	90	
5495	-35	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	90	
5500	-30	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5505	-25	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5510	-20	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5515	-15	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	90	
5520	-10	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5525	-5	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5530	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5535	+5	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5540	+10	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5545	+15	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5550	+20	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	90	
5555	+25	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5560	+30	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5565	+35	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5566	+36	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5567	+37	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5568	+38	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	90	
5569	+39	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5570	+40	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	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 = 77.583MHz (Refer to channel 106)													



<160MHz / 5570MHz>

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	-81	N	N	N	N	N	N	N	N	N	N	0	
5490	-80	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	F _L
5491	-79	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5492	-78	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5493	-77	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5494	-76	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5495	-75	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5500	-70	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5505	-65	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5510	-60	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5515	-55	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5520	-50	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5525	-45	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5530	-40	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5535	-35	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5540	-30	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5545	-25	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5550	-20	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5555	-15	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	90	
5560	-10	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5565	-5	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5570	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5575	+5	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	90	
5580	+10	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5585	+15	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5590	+20	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5595	+25	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5600	+30	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	90	
5605	+35	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5610	+40	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5615	+45	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5620	+50	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	90	



5625	+55	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5630	+60	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5635	+65	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	90	
5640	+70	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5645	+75	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5646	+76	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	90	
5647	+77	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5648	+78	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5649	+79	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	
5650	+80	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	F _H
5651	+81	N	N	N	N	N	N	N	N	N	N	0	
Detection Bandwidth = F _H – F _L = 5650 – 5490 = 160 MHz													
EUT 99% Bandwidth = 156.724 MHz (Refer to channel 114)													



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 T_0 . T_1 denotes the instant when the EUT has completed its power-up sequence ($T_{\text{power_up}}$). The Channel Availability Check Time commences on Chr at instant T_1 and will end no sooner than $T_1 + T_{\text{ch_avail_check}}$.
- (3) A single Burst of one of the Short Pulse Radar Types 1-4 will commence within a 6 second window starting at T_1 . 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.

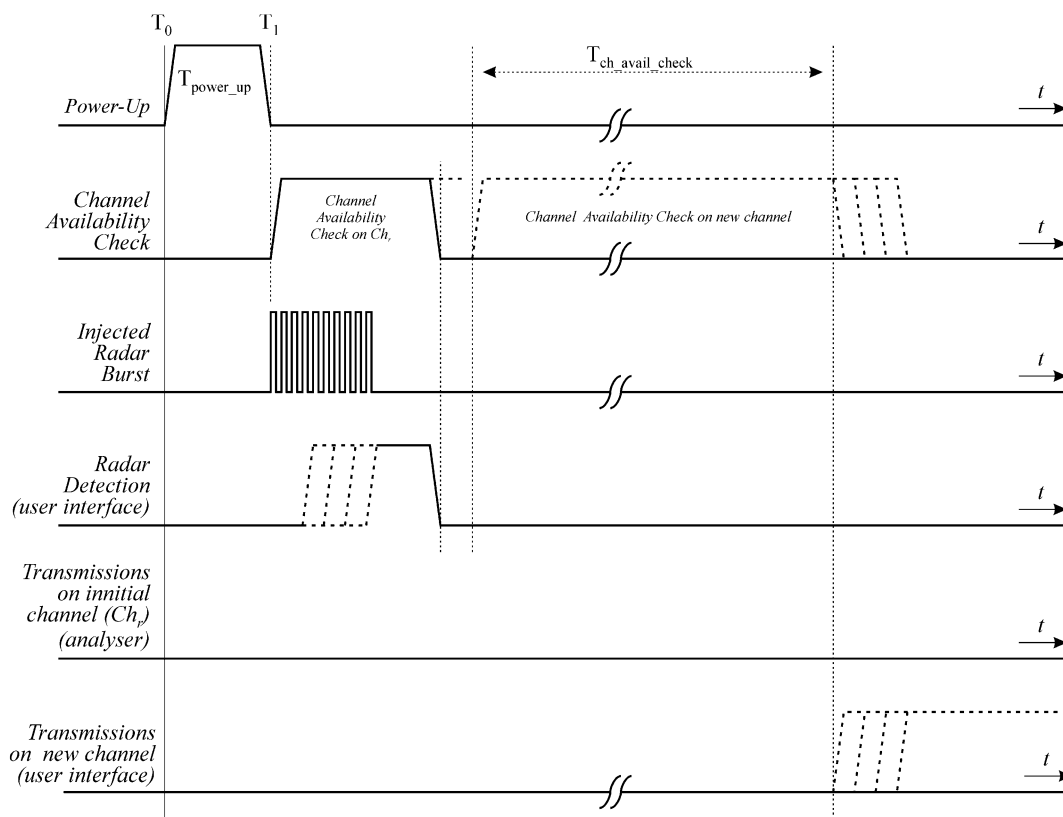


Figure 15: Example of timing for radar testing at the beginning of the Channel Availability Check Time

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 T_0 . T_1 denotes the instant when the EUT has completed its power-up sequence ($T_{\text{power_up}}$). The Channel Availability Check Time commences on Chr at instant T_1 and will end no sooner than $T_1 + T_{\text{ch_avail_check}}$.
- (3) A single Burst of one of the Short Pulse Radar Types 1-4 will commence within a 6 second window starting at $T_1 + 54$ 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.

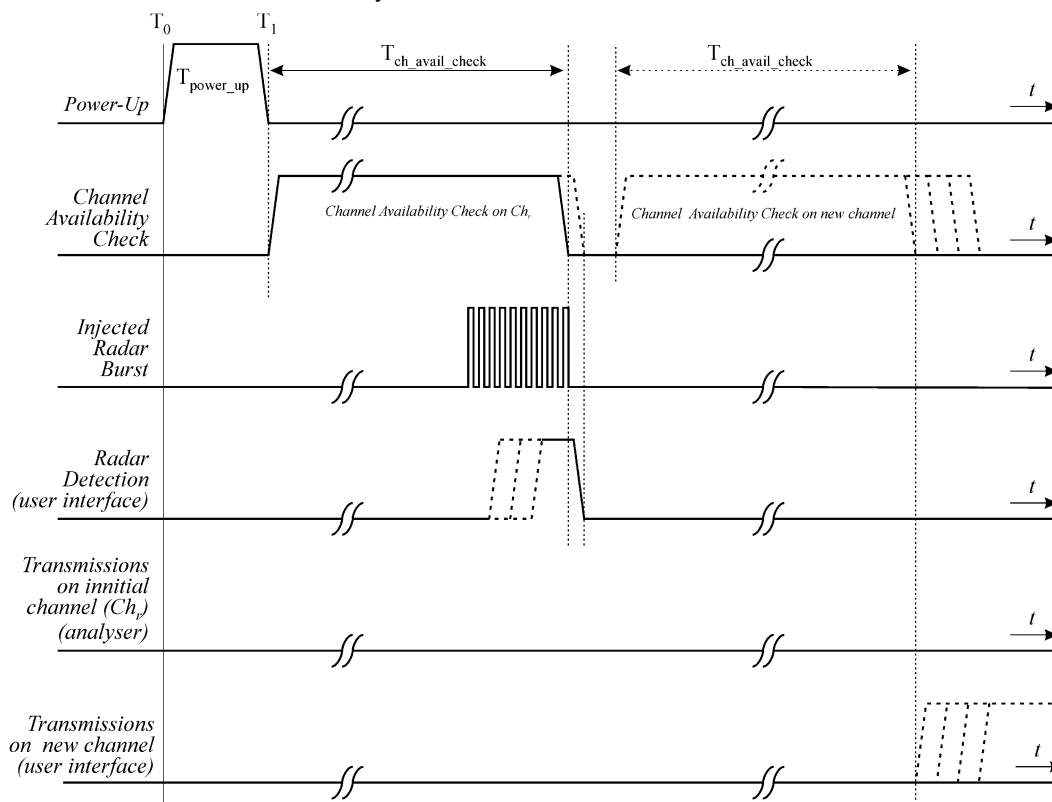
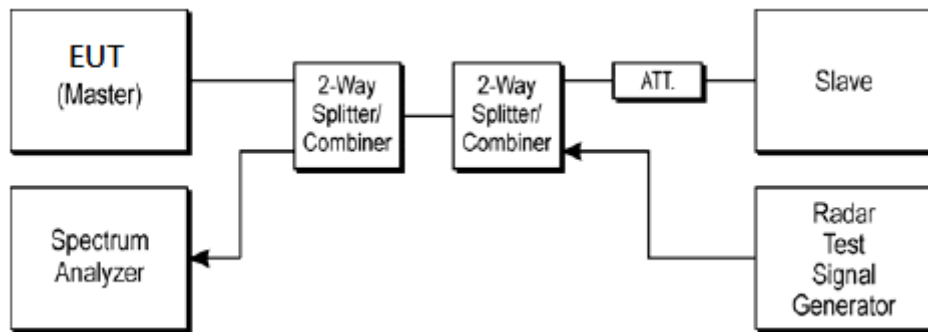


Figure 16: Example of timing for radar testing towards the end of the Channel Availability Check Time

3.3.5 Test Setup

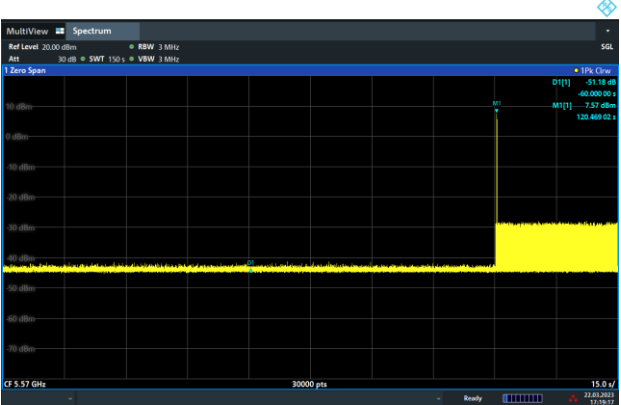
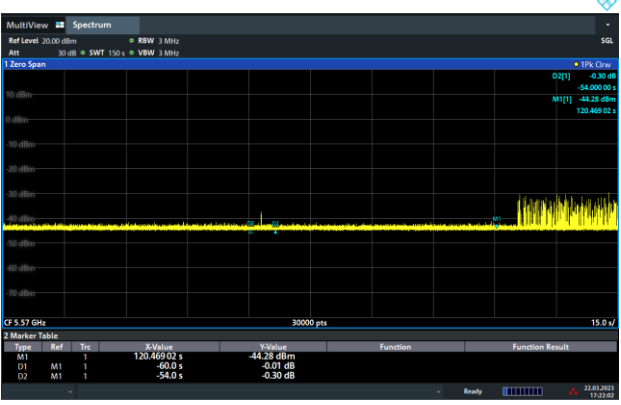
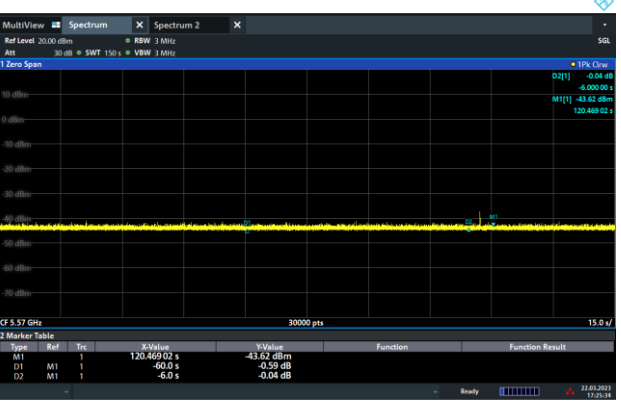


3.3.6 Test Deviation

There is no deviation with the original standard.

3.3.7 Result of Channel Availability Check Time

<160MHz / 5570MHz>

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

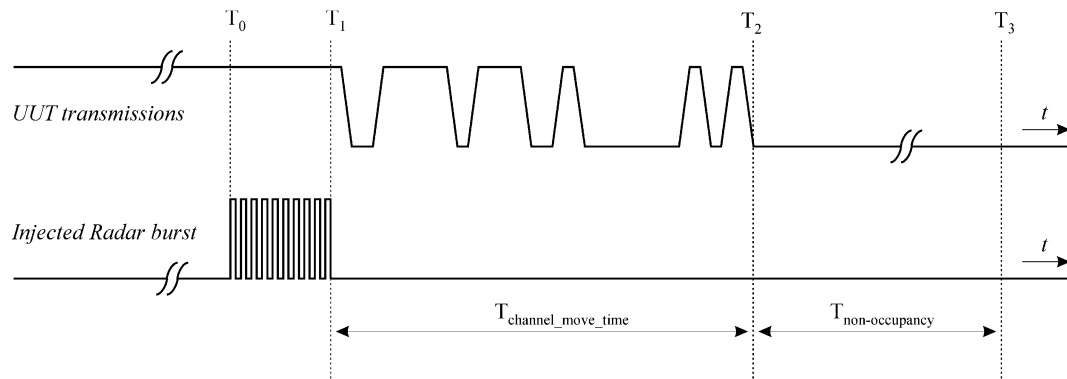
The EUT has In-Service Monitoring function to continuously monitor the radar signals, If radar is detected, it must leave the channel (Shutdown). The Channel Move Time to cease all transmissions on the current Channel upon detection of a Radar Waveform above the DFS Detection Threshold within 10 sec. 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

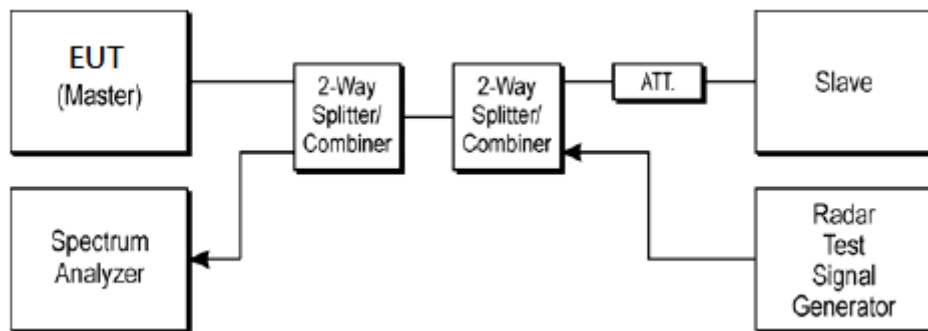
- (1) One frequency will be chosen from the Operating Channels of the EUT within the 5250-5350 MHz or 5470-5725 MHz bands. For 802.11 devices, the test frequency must contain control signals. This can be verified by disabling channel loading and monitoring the spectrum analyzer. If no control signals 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: $C (ms) = N \times Dwell (0.4 ms)$; 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.

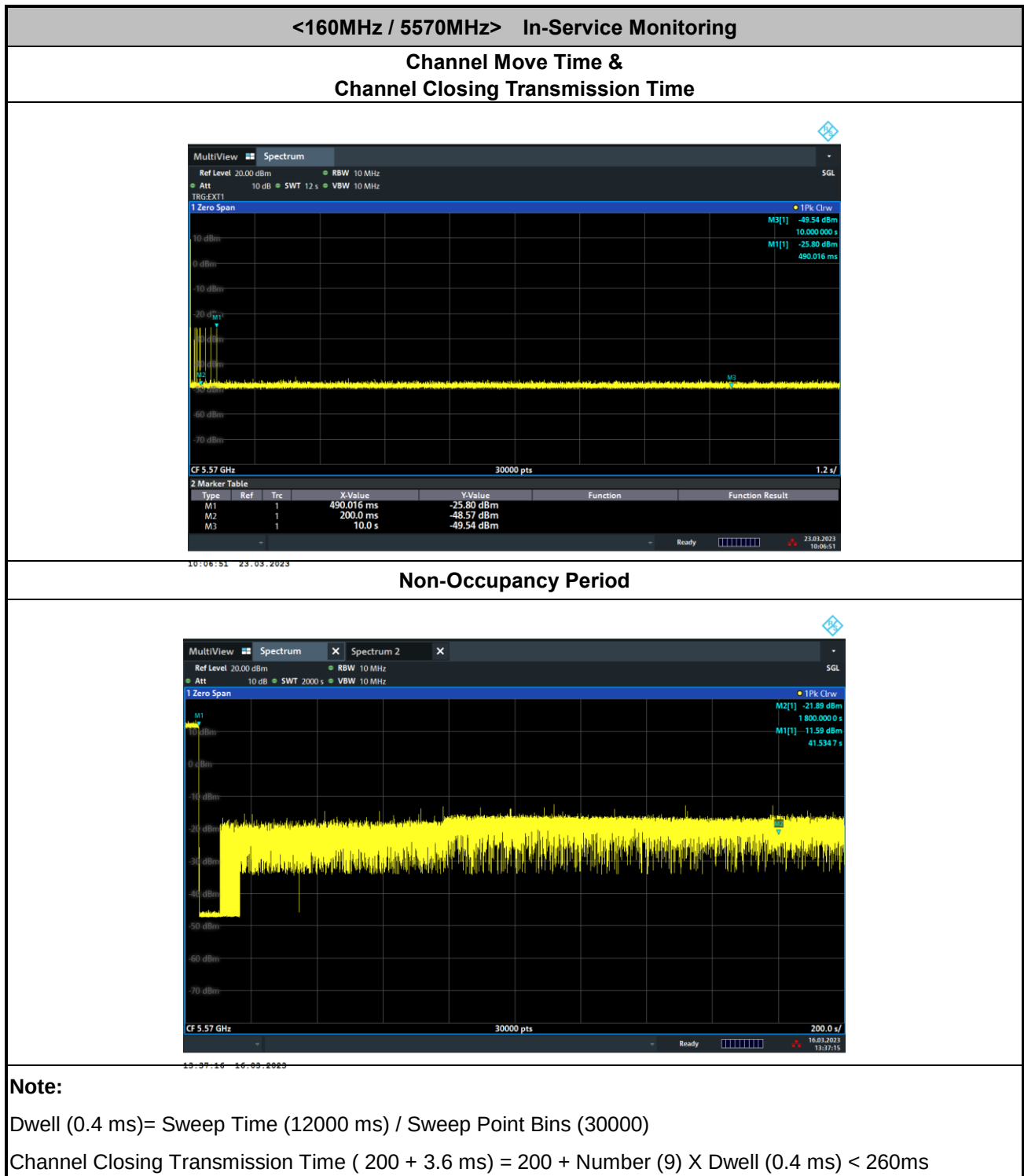
3.4.5 Result of Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period for Client Beacon Test

Test Mode :	Master	Temperature :	23.8~25.6℃
Test Engineer :	Qiao Tan	Relative Humidity :	35.2~38.4%

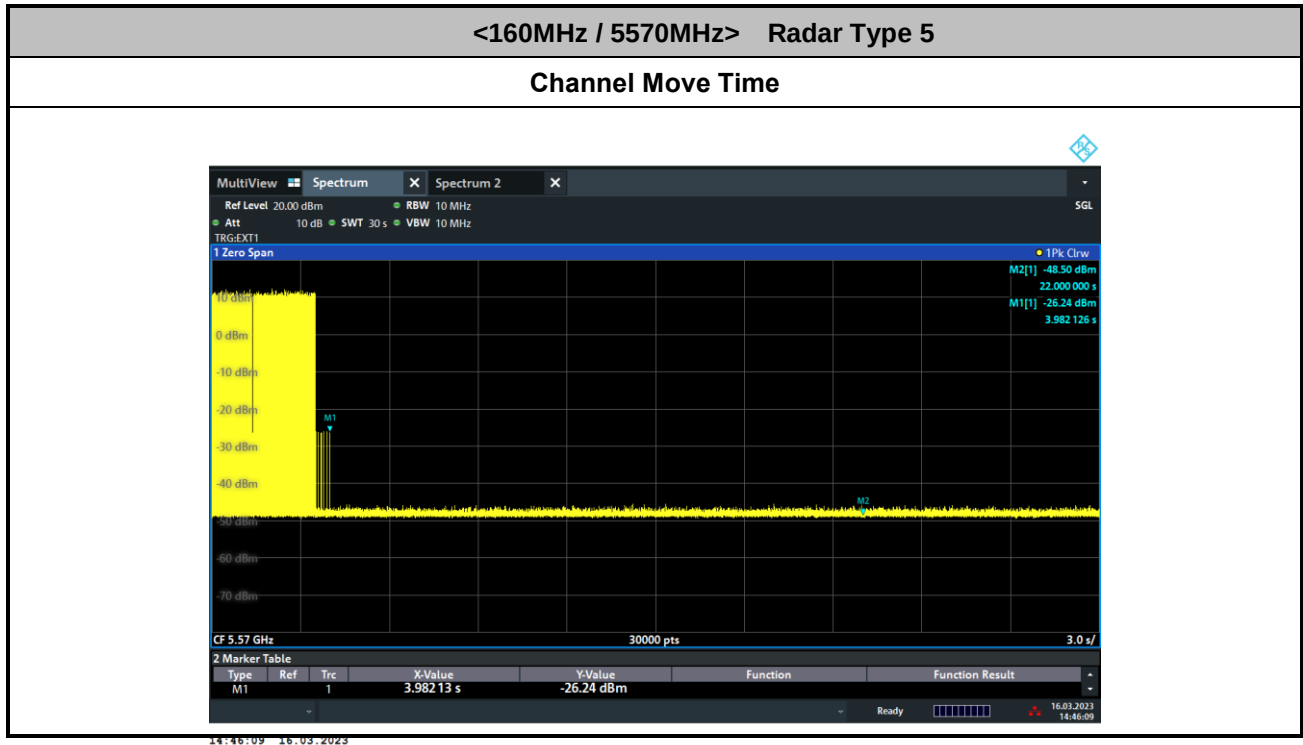
BW / Channel	Test Item	Test Result	Limit	Pass/Fail
<160MHz / 5570MHz>	Channel Move Time	0.490016 s	< 10s	Pass
	Channel Closing Transmission Time	200ms + 3.6 ms	< 260ms	Pass
	Non-Occupancy Period	≥ 30	≥ 30 min	Pass

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.

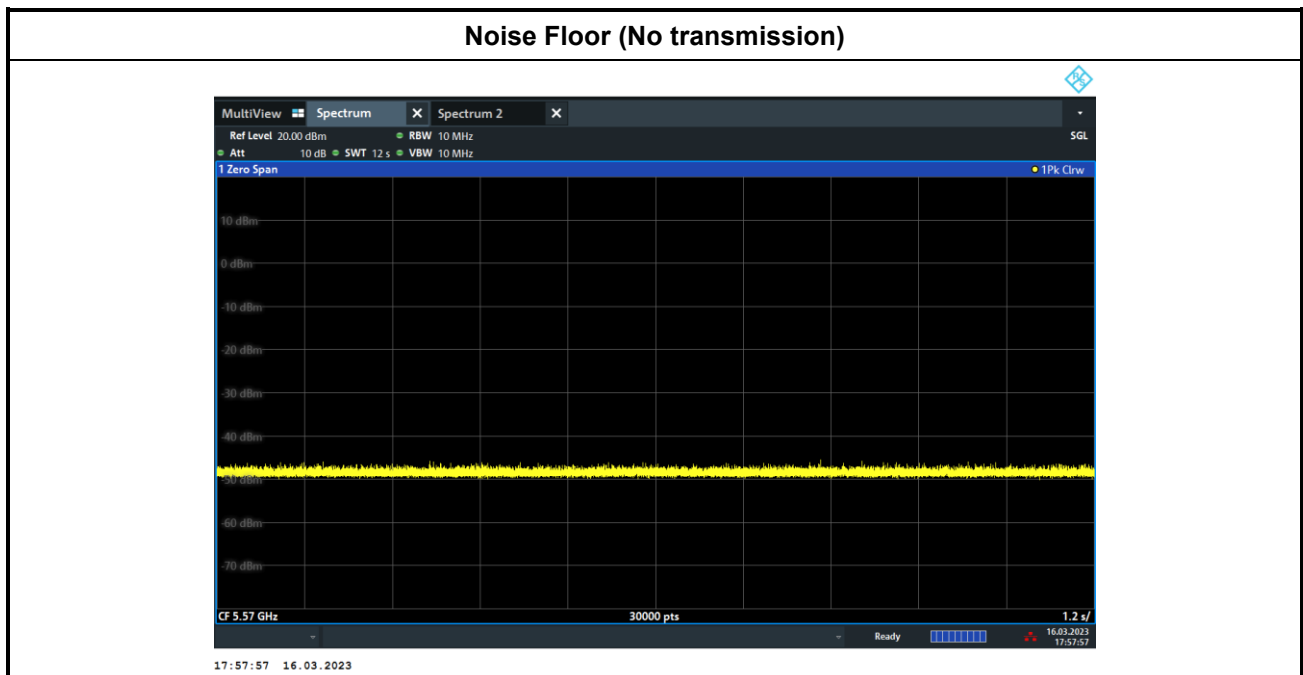
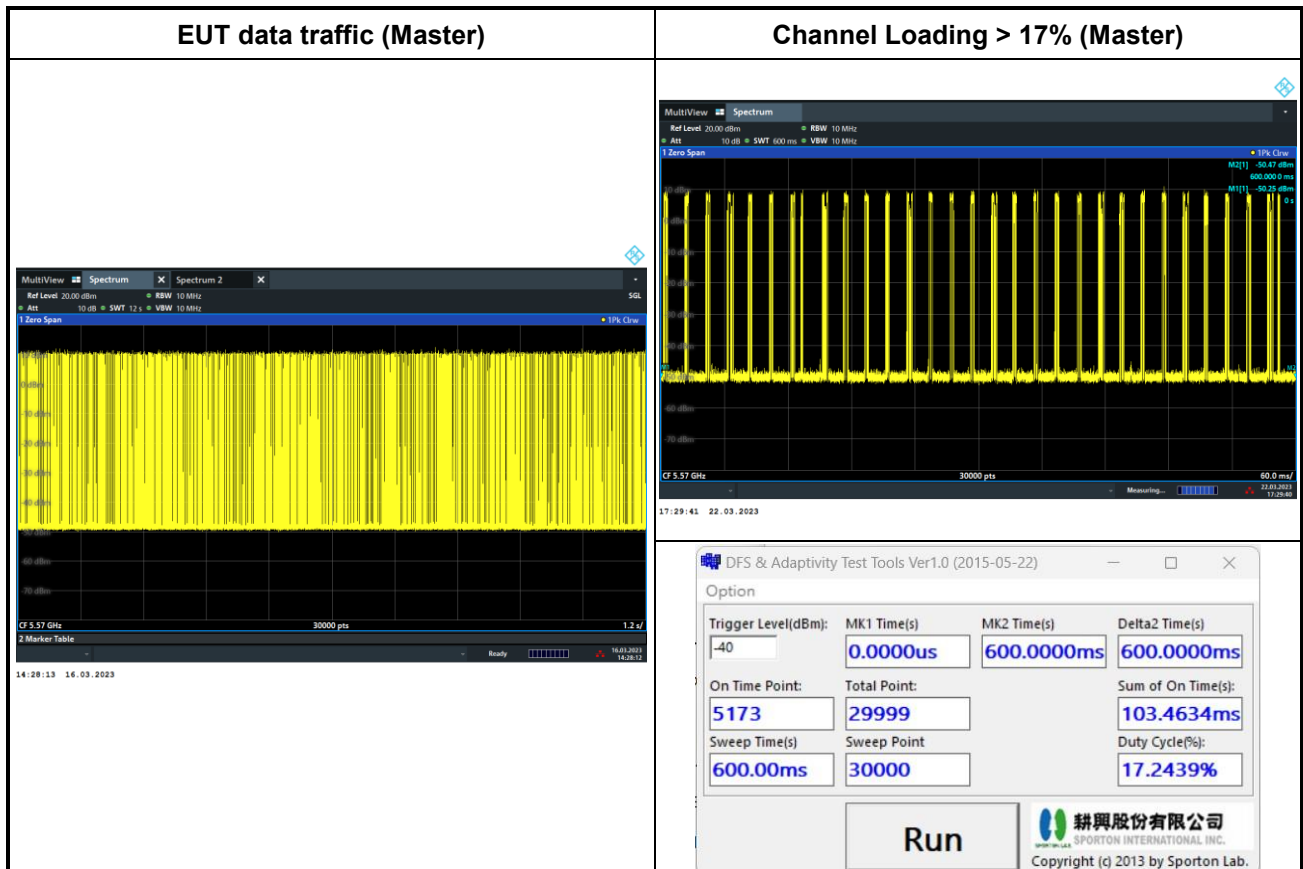
3.4.6 Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period Test Plots



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



3.4.8 Data Traffic Channel Loading and Noise Floor Plots



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:

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

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:

- The Channel center frequency (subset case 1).
- 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).
- 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.

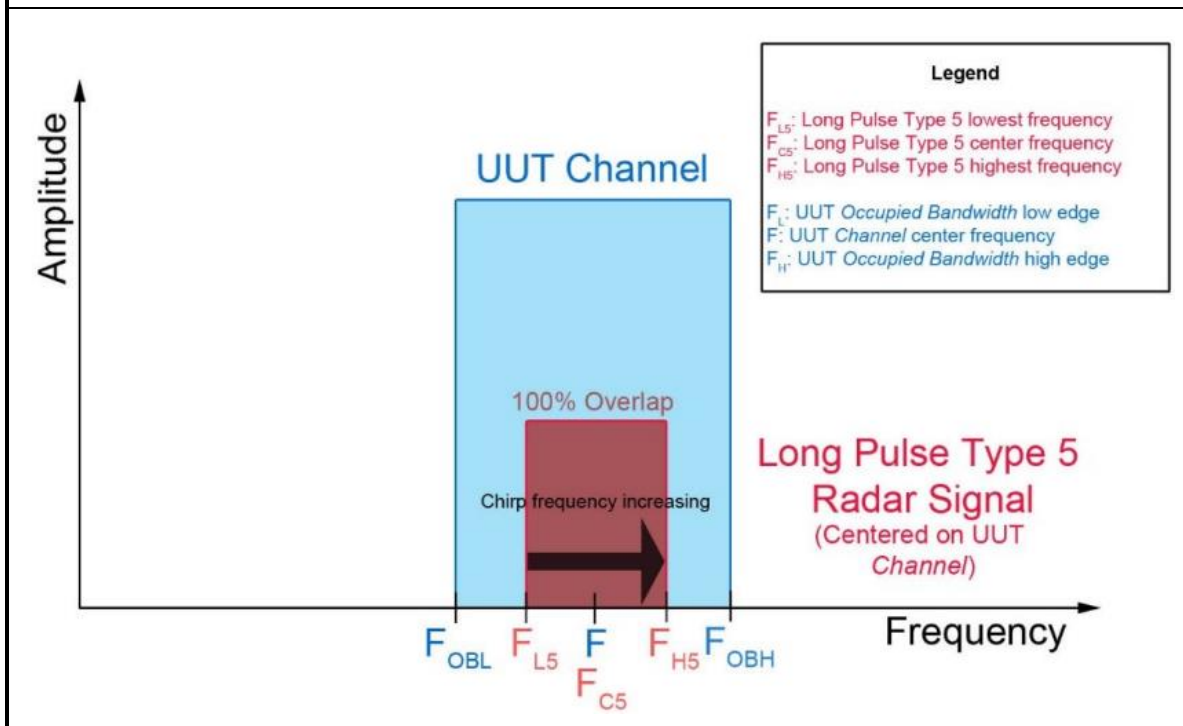
For subset case 2: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 2.

The center frequency of the signal generator for each trial is calculated by: $FL + (0.4 * \text{Chirp Width [in MHz]})$

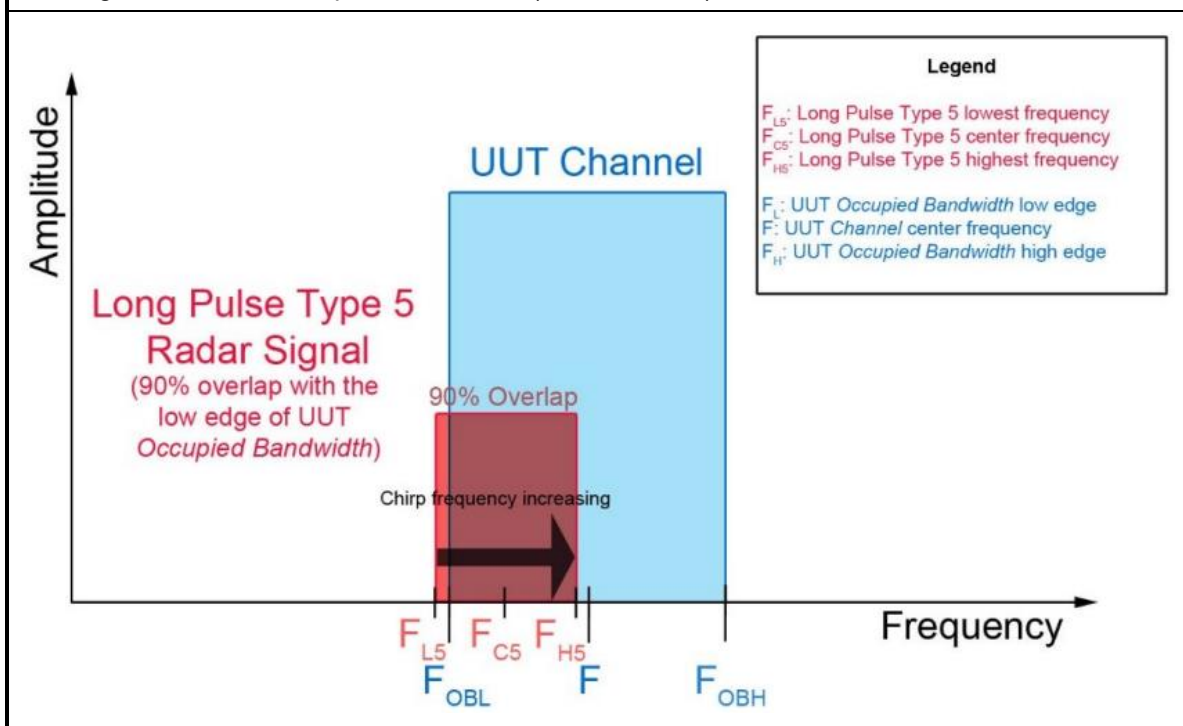
For subset case 3: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 3.

The center frequency of the signal generator for each trial is calculated by: $FH - (0.4 * \text{Chirp Width [in MHz]})$

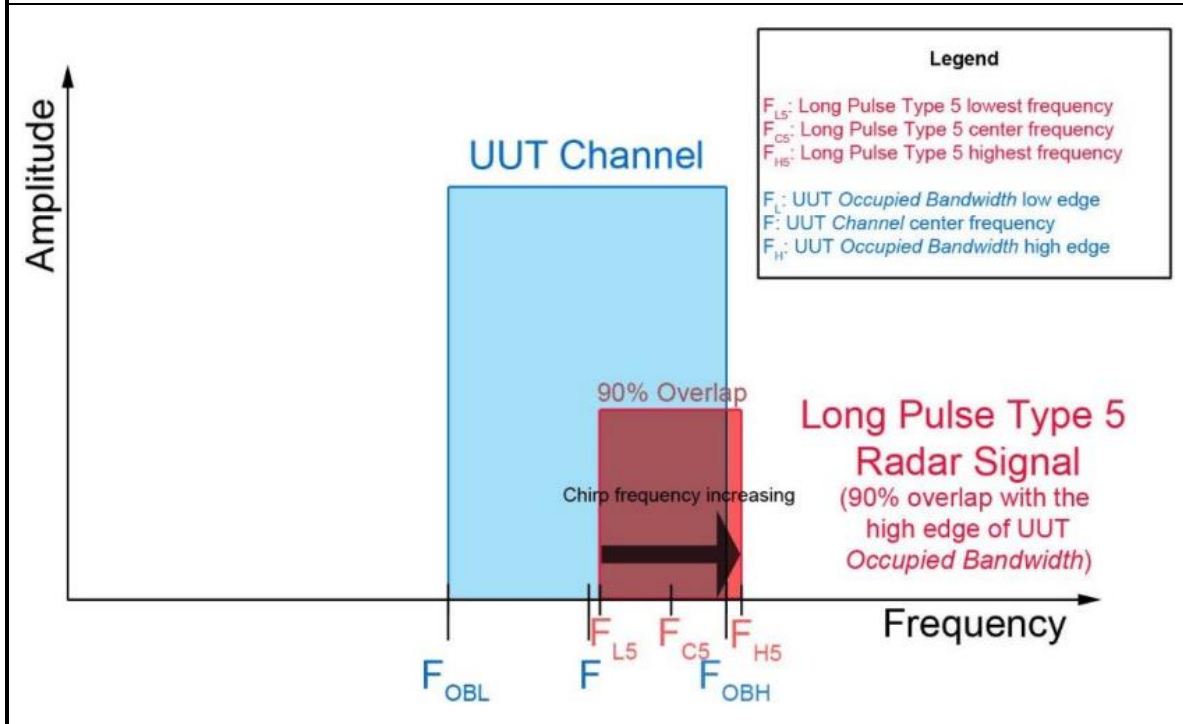
a) Channel center frequency (subset case 1)



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:

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

**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:

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

Table 7 – Frequency Hopping Radar Test Waveform

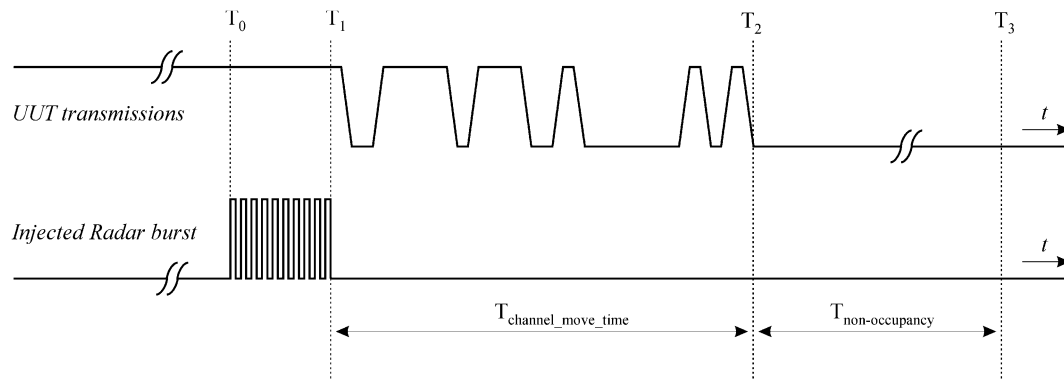
Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

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:

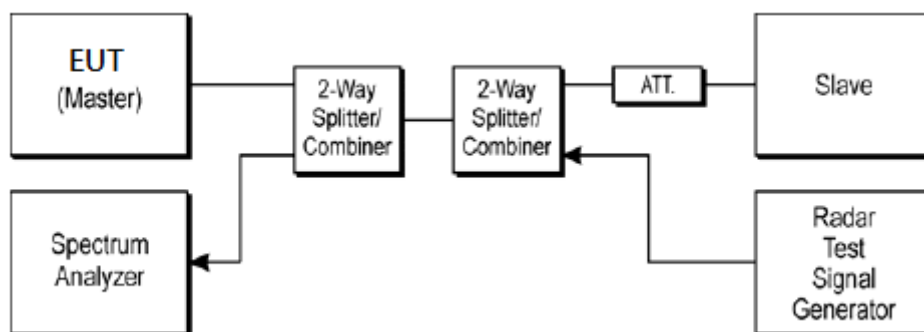
The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues 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 T_0 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	N	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	N	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	N	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	27/30	30/30	30/30
Probability (%)	100%	100%	100%	90%	100%	100%
Limit (%)	>= 60%	>= 60%	>= 60%	>= 60%	>= 80%	>= 70%
Average Probability of Radar Type 1~4 (%)			97.5% (>=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	N	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	N	Y	Y	Y
14	Y	Y	Y	N	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	N	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	N	Y	Y	Y
23	Y	Y	Y	Y	Y	Y
24	Y	Y	Y	Y	Y	Y
25	Y	Y	N	Y	Y	Y
26	Y	Y	Y	N	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	27/30	26/30	30/30	30/30
Probability (%)	100%	100%	90%	86.67%	100%	100%
Limit (%)	>= 60%	>= 60%	>= 60%	>= 60%	>= 80%	>= 70%
Average Probability of Radar Type 1~4 (%)			94.17% (>=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	N	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	29/30	30/30	30/30
Probability (%)	100%	100%	100%	96.67%	100%	100%
Limit (%)	>= 60%	>= 60%	>= 60%	>= 60%	>= 80%	>= 70%
Average Probability of Radar Type 1~4 (%)				99.17% (>=80%)		



<160MHz/ 5570MHz>

(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	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Signal Generator	Keysight	N5182B	MY57280013	9kHz~6GHz	May 05, 2022	Mar. 16, 2023~ Mar. 31, 2023	May 04, 2023	DFS (DF02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV3013	101550	10Hz~13.6GHz	Jan. 30, 2023	Mar. 16, 2023~ Mar. 31, 2023	Jul. 29, 2024	DFS (DF02-HY)
Power Divider	Woken	2Way Divider	DCMB1KW7A1	0.5GHz~18GHz	Calibration from System	Mar. 16, 2023~ Mar. 31, 2023	Calibration from System	DFS (DF02-HY)
Power Divider	Woken	2Way Divider	DCMB1KW7A2	0.5GHz~18GHz	Calibration from System	Mar. 16, 2023~ Mar. 31, 2023	Calibration from System	DFS (DF02-HY)
Power Divider	MTJ	SMA 2Way Power Divider	MD10007	0.5GHz~6GHz	Calibration from System	Mar. 16, 2023~ Mar. 31, 2023	Calibration from System	DFS (DF02-HY)
Power Divider	Woken	SMA 4Way Power Divider	0120A0405600 2D	0.5GHz~6GHz	Calibration from System	Mar. 16, 2023~ Mar. 31, 2023	Calibration from System	DFS (DF02-HY)
Power Divider	Woken	3Way SMA Power Divder Rated to 20W	STI08-0010 (#2)	2GHz~8GHz	Calibration from System	Mar. 16, 2023~ Mar. 31, 2023	Calibration from System	DFS (DF02-HY)
RF Cable	MVE	SPF141	MVE-150cm-01	30kHz~18GHz	Calibration from System	Mar. 16, 2023~ Mar. 31, 2023	Calibration from System	DFS (DF02-HY)
RF Cable	MTJ Cooperstion	SBF405-105FL EX	MTJ-30cm-02	30kHz~18GHz	Calibration from System	Mar. 16, 2023~ Mar. 31, 2023	Calibration from System	DFS (DF02-HY)
RF Cable	MTJ Cooperstion	SBF405-105FL EX	MTJ-30cm-03	30kHz~18GHz	Calibration from System	Mar. 16, 2023~ Mar. 31, 2023	Calibration from System	DFS (DF02-HY)
RF Cable	MTJ Cooperstion	SBF405-105FL EX	MTJ-30cm-04	30kHz~18GHz	Calibration from System	Mar. 16, 2023~ Mar. 31, 2023	Calibration from System	DFS (DF02-HY)
RF Cable	MTJ Cooperstion	SBF405-105FL EX	MTJ-30cm-05	30kHz~18GHz	Calibration from System	Mar. 16, 2023~ Mar. 31, 2023	Calibration from System	DFS (DF02-HY)
RF Cable	MTJ Cooperstion	SBF405-105FL EX	MTJ-30cm-06	30kHz~18GHz	Calibration from System	Mar. 16, 2023~ Mar. 31, 2023	Calibration from System	DFS (DF02-HY)
RF Cable	MTJ Cooperstion	SBF405-105FL EX	MTJ-30cm-08	30kHz~18GHz	Calibration from System	Mar. 16, 2023~ Mar. 31, 2023	Calibration from System	DFS (DF02-HY)
RF Cable	MTJ Cooperstion	SBF405-105FL EX	MTJ-30cm-09	30kHz~18GHz	Calibration from System	Mar. 16, 2023~ Mar. 31, 2023	Calibration from System	DFS (DF02-HY)
RF Cable	EST	SLF405_100cm	#7	30kHz~18GHz	Calibration from System	Mar. 16, 2023~ Mar. 31, 2023	Calibration from System	DFS (DF02-HY)
RF Cable	EST	SLF405_100cm	#8	30kHz~18GHz	Calibration from System	Mar. 16, 2023~ Mar. 31, 2023	Calibration from System	DFS (DF02-HY)
RF Cable	Woken	S05(100cm)	161202-04	30kHz~18GHz	Calibration from System	Mar. 16, 2023~ Mar. 31, 2023	Calibration from System	DFS (DF02-HY)
RF Cable	Woken	S05(100cm)	161202-05	30 kHz~18GHz	Calibration from System	Mar. 16, 2023~ Mar. 31, 2023	Calibration from System	DFS (DF02-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	8	1519.76	658	Yes
3	12	1355.01	738	Yes
4	20	1113.59	898	Yes
5	17	1193.32	838	Yes
6	1	1930.50	518	Yes
7	3	1792.11	558	Yes
8	11	1392.76	718	No
9	7	1567.40	638	Yes
10	16	1222.49	818	Yes
11	9	1474.93	678	Yes
12	5	1672.24	598	Yes
13	10	1432.66	698	Yes
14	13	1319.26	758	Yes
15	14	1285.35	778	Yes
16		973.71	1027	Yes
17		650.20	1538	No
18		340.14	2940	Yes
19		1379.31	725	Yes
20		569.80	1755	Yes
21		544.96	1835	Yes
22		347.58	2877	Yes
23		755.29	1324	Yes
24		1254.71	797	Yes
25		441.31	2266	Yes
26		729.93	1370	Yes
27		1572.33	636	Yes
28		813.01	1230	Yes
29		630.52	1586	Yes
30		364.83	2741	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	24	2.00	150	No
2	23	1.40	166	Yes
3	23	1.10	199	Yes
4	25	2.50	168	Yes
5	28	4.40	225	Yes
6	26	2.90	223	Yes
7	24	1.70	190	No
8	25	2.60	196	Yes
9	26	3.20	205	Yes
10	28	4.30	218	Yes
11	23	1.30	215	Yes
12	25	2.40	217	Yes
13	27	3.40	181	Yes
14	23	1.40	204	Yes
15	27	3.90	229	No
16	29	4.60	161	Yes
17	27	3.90	159	Yes
18	27	3.50	193	Yes
19	27	3.70	182	Yes
20	23	1.30	209	No
21	26	2.90	198	Yes
22	23	1.50	172	Yes
23	27	3.70	163	Yes
24	29	4.50	167	Yes
25	23	1.30	158	Yes
26	25	2.30	151	Yes
27	23	1.30	174	Yes
28	23	1.00	206	Yes
29	27	3.80	162	Yes
30	26	3.20	202	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	16	7.00	259	Yes
2	16	6.40	273	Yes
3	16	6.10	361	Yes
4	17	7.50	374	Yes
5	18	9.40	205	No
6	17	7.90	393	Yes
7	16	6.70	260	No
8	17	7.60	470	Yes
9	17	8.20	315	Yes
10	18	9.30	483	Yes
11	16	6.30	379	No
12	17	7.40	351	Yes
13	17	8.40	325	Yes
14	16	6.40	328	Yes
15	18	8.90	220	No
16	18	9.60	219	Yes
17	18	8.90	403	Yes
18	17	8.50	248	Yes
19	18	8.70	444	Yes
20	16	6.30	223	No
21	17	7.90	214	Yes
22	16	6.50	364	No
23	18	8.70	213	Yes
24	18	9.50	334	Yes
25	16	6.30	317	No
26	16	7.30	349	Yes
27	16	6.30	474	Yes
28	16	6.00	450	Yes
29	18	8.80	406	Yes
30	17	8.20	438	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	13	13.40	259	Yes
2	12	11.90	273	No
3	12	11.20	361	Yes
4	13	14.30	374	No
5	16	18.50	205	Yes
6	14	15.40	393	No
7	12	12.70	260	Yes
8	13	14.50	470	Yes
9	14	15.90	315	Yes
10	16	18.30	483	Yes
11	12	11.80	379	Yes
12	13	14.10	351	Yes
13	14	16.30	325	No
14	12	11.90	328	Yes
15	15	17.40	220	Yes
16	16	19.00	219	Yes
17	15	17.40	403	No
18	15	16.70	248	No
19	15	17.10	444	Yes
20	12	11.70	223	Yes
21	14	15.30	214	Yes
22	12	12.20	364	Yes
23	15	17.10	213	Yes
24	16	18.90	334	No
25	12	11.80	317	No
26	13	13.90	349	Yes
27	12	11.70	474	No
28	12	11.00	450	No
29	15	17.30	406	No
30	14	16.00	438	Yes

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

Trial Number:			1			Detection (Yes/No)
Number of Bursts in Trial:			18			
Chirp Center Frequency:			5500			
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	90.2	17	1628	1282	30949
2	2	76.7	17	1915	-	191953
3	2	79.3	17	1481	-	353175
4	2	67.6	17	1106	-	514285
5	3	90.5	17	1555	1499	11166
6	2	83	17	1814	-	172069
7	3	91.4	17	1197	1698	332641
8	1	66.3	17	-	-	495255
9	1	60.1	17	-	-	656773
10	3	90.6	17	1944	1061	151906
11	1	62.2	17	-	-	313935
12	1	51.5	17	-	-	475144
13	1	60.1	17	-	-	636881
14	1	55.2	17	-	-	132871
15	1	54	17	-	-	294082
16	1	56.6	17	-	-	455175
17	2	80.8	17	1213	-	615310
18	1	60.6	17	-	-	112895
19						
20						

Trial Number:			2			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	2	73.6	13	1393	-	352249
2	3	94.8	13	1647	1237	558310
3	2	70.6	13	1100	-	766637
4	1	55.2	13	-	-	119747
5	1	53.8	13	-	-	327175
6	3	98.7	13	1266	1652	532961
7	2	78.3	13	1108	-	741187
8	2	77.4	13	1012	-	94026
9	2	77.4	13	1287	-	301303
10	2	75.7	13	1047	-	508734
11	3	93.9	13	1000	1798	714054
12	2	81.3	13	1896	-	68432
13	3	89	13	1657	1873	274905
14	3	95.5	13	1491	1719	481673
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:			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	1	65.3	14	-	-	645337
2	2	81.9	14	1395	-	40093
3	1	64.3	14	-	-	233848
4	3	91.6	14	1298	1463	425910
5	1	62.5	14	-	-	620865
6	1	53.4	14	-	-	16306
7	1	63.9	14	-	-	209869
8	2	73.4	14	1931	-	402566
9	3	99.9	14	1998	1899	594246
10	2	80.5	14	1418	-	789156
11	3	84.2	14	1621	1901	185261
12	2	82.5	14	1973	-	378657
13	2	72.4	14	1080	-	572917
14	3	96.3	14	1286	1445	764375
15	2	79.7	14	1782	-	161921
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Trial Number:			4			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	3	89.5	10	1777	1935	443314
2	3	93	10	1789	1229	685100
3	1	50	10	-	-	929041
4	3	85.2	10	1242	1761	172524
5	3	84.9	10	1709	1408	413953
6	2	69	10	1869	-	656484
7	1	52.4	10	-	-	899199
8	2	76.2	10	1806	-	142915
9	3	85	10	1750	1520	384322
10	2	72.8	10	1845	-	626480
11	2	80.7	10	1892	-	868114
12	3	89.4	10	1840	1704	113008
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DFS Radar Parameters
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Channel 100 Bandwidth 20MHz

Trial Number:			5			Detection (Yes/No)
Number of Bursts in Trial:			18			
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	63.1	17	-	-	236902
2	1	55.6	17	-	-	398446
3	1	65.6	17	-	-	559882
4	2	72.4	17	1154	-	55538
5	2	78.9	17	1427	-	216374
6	1	51.6	17	-	-	378543
7	2	66.8	17	1795	-	538059
8	3	86.3	17	1379	1140	35692
9	2	78.2	17	1152	-	196645
10	3	91	17	1208	1482	357257
11	1	62.4	17	-	-	519635
12	3	94.1	17	1262	1569	15860
13	2	77.4	17	1382	-	176970
14	3	96.7	17	1150	1058	337528
15	1	50.1	17	-	-	499810
16	3	94.9	17	1793	1837	658110
17	3	90.1	17	1057	1968	156576
18	2	71	17	1726	-	318036
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Trial Number:			6			Detection (Yes/No)
Number of Bursts in Trial:			16			
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	71.3	15	1616	-	538679
2	2	76.2	15	1958	-	719811
3	2	82	15	1316	-	154397
4	3	97.8	15	1243	1663	335096
5	3	87.9	15	1697	1731	515604
6	2	82.8	15	1805	-	697673
7	3	93.9	15	1602	1071	131924
8	3	96.2	15	1841	1558	312624
9	1	54	15	-	-	495166
10	2	76.5	15	1682	-	675442
11	1	62.8	15	-	-	110068
12	1	55.6	15	-	-	291531
13	2	79.3	15	1225	-	472627
14	2	68.7	15	1640	-	652935
15	2	81.9	15	1564	-	87531
16	1	64	15	-	-	269174
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DFS Radar Parameters
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Trial Number:			7			Detection (Yes/No)
Number of Bursts in Trial:			18			
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	50.8	18	-	-	400670
2	2	67.8	18	1844	-	560495
3	3	84.2	18	1344	1534	57763
4	1	58.1	18	-	-	219382
5	1	55.3	18	-	-	380533
6	2	80.9	18	1655	-	540589
7	1	55.6	18	-	-	38126
8	1	60	18	-	-	199618
9	1	51.4	18	-	-	360941
10	3	98.6	18	1400	1797	519482
11	2	80.5	18	1318	-	18255
12	1	55.9	18	-	-	179555
13	1	57.8	18	-	-	341104
14	3	88.2	18	1081	1742	499804
15	2	68.8	18	1031	-	662993
16	1	57.6	18	-	-	159853
17	3	86.2	18	1920	1307	319359
18	1	63.9	18	-	-	482304
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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	51.5	10	-	-	966656
2	1	54.4	10	-	-	210029
3	1	57.4	10	-	-	452127
4	1	65.3	10	-	-	694074
5	2	67.7	10	1052	-	935402
6	2	82.9	10	1767	-	179741
7	2	78.6	10	1082	-	421984
8	2	82.7	10	1096	-	663731
9	3	97.6	10	1942	1939	902850
10	3	90.3	10	1980	1813	149723
11	2	73.5	10	1839	-	391543
12	2	72.6	10	1241	-	633669
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DFS Radar Parameters
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Channel 100 Bandwidth 20MHz

Trial Number:			9			Detection (Yes/No)
Number of Bursts in Trial:			10			
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	61.6	8	-	-	1052574
2	3	93.8	8	1235	1559	144273
3	1	62.2	8	-	-	435147
4	1	63.3	8	-	-	725709
5	3	95.8	8	1876	1240	1013788
6	2	82.3	8	1913	-	108644
7	1	60.6	8	-	-	399488
8	2	81.9	8	1234	-	689234
9	1	65.7	8	-	-	980860
10	3	90.5	8	1560	1398	72792
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Trial Number:			10			Detection (Yes/No)
Number of Bursts in Trial:			18			
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	70.6	17	1950	-	201117
2	2	72	17	1617	-	362410
3	3	96.4	17	1327	1821	521844
4	3	89.4	17	1947	1310	20548
5	1	52.2	17	-	-	182086
6	3	87.9	17	1025	1573	342138
7	3	88.4	17	1346	1089	502646
8	1	65.9	17	-	-	764
9	1	57.6	17	-	-	162205
10	1	55.2	17	-	-	323467
11	2	69.5	17	1811	-	483529
12	1	65.3	17	-	-	646184
13	2	67.2	17	1769	-	141874
14	2	77.5	17	1083	-	303222
15	1	56.6	17	-	-	464625
16	3	85.6	17	1351	1969	622910
17	1	50.1	17	-	-	122337
18	1	51.3	17	-	-	283542
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DFS Radar Parameters
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Channel 100 Bandwidth 20MHz

Trial Number:			11			Detection (Yes/No)
Number of Bursts in Trial:			11			
Chirp Center Frequency:			5493.5			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	79.5	8	1938	-	727831
2	2	72.6	8	1252	-	991717
3	2	83.3	8	1822	-	167557
4	1	65.3	8	-	-	432154
5	3	86.5	8	1224	1478	694633
6	2	78.9	8	1013	-	959631
7	3	86.9	8	1269	1006	135016
8	3	86.8	8	1127	1997	398468
9	3	93.8	8	1735	1590	661769
10	3	94.5	8	1787	1385	925174
11	3	92.4	8	1749	1910	102422
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Trial Number:			12			Detection (Yes/No)
Number of Bursts in Trial:			8			
Chirp Center Frequency:			5492.3			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	86.6	5	1648	1494	503759
2	3	97	5	1508	1887	866256
3	1	54.2	5	-	-	1231598
4	3	98.2	5	1566	1743	96373
5	1	61	5	-	-	459974
6	3	83.9	5	1926	1827	821488
7	3	85.4	5	1289	1642	1184344
8	2	69	5	1439	-	51728
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Trial Number:			13			Detection (Yes/No)
Number of Bursts in Trial:			10			
Chirp Center Frequency:			5493.5			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	78.4	8	1317	-	331711
2	2	80.6	8	1918	-	621843
3	3	90.8	8	1302	1888	910718
4	3	94.4	8	1857	1808	5599
5	2	81.7	8	1436	-	295867
6	2	82.7	8	1661	-	586380
7	2	68.2	8	1665	-	876716
8	1	53	8	-	-	1168144
9	3	96.3	8	1924	1505	259641
10	2	76.6	8	1713	-	550474
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Trial Number:			14			Detection (Yes/No)
Number of Bursts in Trial:			9			
Chirp Center Frequency:			5492.7			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	84.7	6	1563	1456	933417
2	1	56.6	6	-	-	1258069
3	1	60.2	6	-	-	249733
4	2	82.2	6	1649	-	571984
5	1	59.3	6	-	-	895960
6	1	52.3	6	-	-	1218747
7	3	93.2	6	1884	1285	209357
8	1	57.1	6	-	-	532751
9	1	55.2	6	-	-	855848
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Trial Number:			15			Detection (Yes/No)
Number of Bursts in Trial:			9			
Chirp Center Frequency:			5492.7			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	85.5	6	1477	1522	1175891
2	2	67.5	6	1666	-	169928
3	1	52.4	6	-	-	493188
4	1	65.5	6	-	-	816323
5	3	94.1	6	1654	1263	1136979
6	3	93.9	6	1636	1852	129991
7	2	73.5	6	1306	-	452797
8	2	71.1	6	1473	-	775494
9	1	58.3	6	-	-	1099391
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Trial Number:			16			Detection (Yes/No)
Number of Bursts in Trial:			9			
Chirp Center Frequency:			5493.1			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	65.2	7	-	-	90535
2	2	67.1	7	1423	-	413016
3	1	56.1	7	-	-	736283
4	3	93.7	7	1313	1511	1057367
5	2	71.2	7	2000	-	50673
6	1	66.5	7	-	-	373877
7	2	71.8	7	1432	-	695806
8	2	70.7	7	1651	-	1018261
9	3	88.8	7	1916	1577	10926
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DFS Radar Parameters
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Trial Number:			17			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5495.9			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	78.3	14	1454	-	199830
2	1	51.5	14	-	-	393961
3	2	82.7	14	1446	-	586846
4	2	68.3	14	1214	-	780453
5	2	75.8	14	1675	-	175971
6	3	90.6	14	1027	1561	368628
7	1	60.2	14	-	-	563522
8	1	59.1	14	-	-	757343
9	3	87.8	14	1041	1819	152007
10	2	82.1	14	1099	-	345555
11	1	54.3	14	-	-	539768
12	3	87.6	14	1501	1038	731260
13	1	51.8	14	-	-	128631
14	1	55	14	-	-	322323
15	1	53.8	14	-	-	515786
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Trial Number:			18			Detection (Yes/No)
Number of Bursts in Trial:			10			
Chirp Center Frequency:			5493.5			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	78.6	8	1832	-	1063279
2	3	100	8	1102	1724	156913
3	1	51.5	8	-	-	447969
4	2	75.9	8	1591	-	737929
5	1	65.1	8	-	-	1029515
6	3	96.8	8	1347	1397	121218
7	1	50.4	8	-	-	412089
8	1	58.2	8	-	-	702839
9	1	61.5	8	-	-	993637
10	1	59.9	8	-	-	85721
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Trial Number:			19			Detection (Yes/No)
Number of Bursts in Trial:			14			
Chirp Center Frequency:			5495.1			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	87.9	12	1867	1820	267401
2	2	79.2	12	1757	-	475341
3	2	70.4	12	1284	-	682690
4	3	91.1	12	1434	1374	35491
5	3	85.5	12	1695	1552	242271
6	3	93.8	12	1959	1233	448754
7	1	60.4	12	-	-	658416
8	3	88.6	12	1515	1906	10018
9	1	63.6	12	-	-	217567
10	1	64.8	12	-	-	425214
11	1	55.6	12	-	-	632989
12	2	72.6	12	1337	-	838721
13	2	67.2	12	1912	-	191486
14	3	91.7	12	1148	1850	398317
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Trial Number:			20			Detection (Yes/No)
Number of Bursts in Trial:			19			
Chirp Center Frequency:			5497.9			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	61.8	19	-	-	447050
2	1	55.2	19	-	-	599783
3	3	84.9	19	1338	1441	122081
4	1	56.1	19	-	-	275588
5	3	91.4	19	1381	1639	426133
6	2	66.7	19	1872	-	579676
7	2	70.7	19	1891	-	103504
8	1	63.3	19	-	-	256508
9	1	62.1	19	-	-	409506
10	1	52.2	19	-	-	561803
11	1	65	19	-	-	84928
12	2	71.3	19	1388	-	237133
13	1	64.9	19	-	-	390297
14	3	95.9	19	1825	1812	540063
15	1	55.5	19	-	-	66125
16	3	92.1	19	1963	1945	217619
17	2	77.9	19	1637	-	370613
18	3	93.4	19	1104	1377	522814
19	2	71.1	19	1363	-	47169
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Trial Number:			21			Detection (Yes/No)
Number of Bursts in Trial:			13			
Chirp Center Frequency:			5505.3			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	58.3	11	-	-	292546
2	3	87.9	11	1599	1625	514354
3	1	61.4	11	-	-	739825
4	3	89.8	11	1738	1053	41487
5	2	68	11	1063	-	264899
6	1	52.3	11	-	-	488744
7	3	88.4	11	1390	1693	710090
8	3	93.9	11	1680	1295	14049
9	3	99	11	1833	1325	236723
10	3	88.3	11	1126	1342	459970
11	3	90.2	11	1620	1073	682689
12	3	98.3	11	1183	1371	906075
13	1	56	11	-	-	209963
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Trial Number:			22			Detection (Yes/No)
Number of Bursts in Trial:			9			
Chirp Center Frequency:			5507.3			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	82.8	6	1117	-	626048
2	1	59.8	6	-	-	949616
3	1	64.1	6	-	-	1272282
4	1	59.8	6	-	-	263837
5	1	61.8	6	-	-	586964
6	3	94.4	6	1139	1125	908090
7	2	66.8	6	1737	-	1231111
8	3	94.8	6	1990	1835	223375
9	3	89.2	6	1443	1239	546088
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Trial Number:			23			Detection (Yes/No)
Number of Bursts in Trial:			8			
Chirp Center Frequency:			5507.3			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	74.5	6	1681	-	977826
2	2	67	6	1549	-	1340530
3	2	68.2	6	1416	-	207042
4	2	76	6	1201	-	570192
5	1	64.2	6	-	-	934105
6	2	78.8	6	1467	-	1296531
7	1	64.6	6	-	-	162530
8	2	83.1	6	1168	-	525678
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Trial Number:			24			Detection (Yes/No)
Number of Bursts in Trial:			20			
Chirp Center Frequency:			5501.7			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	71.5	20	1937	-	354351
2	3	87	20	1002	1044	498999
3	1	62.2	20	-	-	47068
4	1	51.4	20	-	-	192285
5	1	58.8	20	-	-	337586
6	1	53.8	20	-	-	482707
7	1	50.3	20	-	-	29175
8	1	65.5	20	-	-	174167
9	2	66.9	20	1993	-	318645
10	1	53.7	20	-	-	464494
11	1	53	20	-	-	11267
12	2	72.9	20	1292	-	156040
13	2	71.8	20	1729	-	300920
14	2	75	20	1218	-	446043
15	2	71.9	20	1928	-	590310
16	1	53.9	20	-	-	138471
17	1	59	20	-	-	283492
18	3	88.5	20	1265	1776	426393
19	1	55.1	20	-	-	574253
20	2	81.7	20	1903	-	120351

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

Trial Number:			25			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5504.1			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	14	1276	1510	353407
2	2	80.3	14	1524	-	547119
3	3	83.6	14	1728	1860	738692
4	2	76.6	14	1531	-	136849
5	2	76.3	14	1914	-	329884
6	2	69.1	14	1631	-	523236
7	1	63.4	14	-	-	717752
8	3	94.5	14	1182	1530	112940
9	2	71.5	14	1543	-	306191
10	3	92	14	1971	1358	498595
11	3	88.2	14	1676	1470	691337
12	1	59.5	14	-	-	89371
13	2	79.3	14	1251	-	282571
14	1	65.9	14	-	-	476764
15	2	66.8	14	1032	-	669757
16						
17						
18						
19						
20						

Trial Number:			26			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5504.5			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	53.2	13	-	-	65532
2	3	86.1	13	1419	1112	258371
3	1	54.5	13	-	-	452877
4	2	74	13	1948	-	645074
5	1	56	13	-	-	41723
6	1	63.8	13	-	-	235384
7	3	94.4	13	1120	1490	427889
8	3	94.9	13	1881	1097	620317
9	3	90.6	13	1452	1493	17797
10	1	63.8	13	-	-	211585
11	2	71.9	13	1194	-	404809
12	2	67.4	13	1556	-	597946
13	3	99.6	13	1303	1161	790253
14	3	95.2	13	1291	1109	187179
15	1	64.2	13	-	-	381353
16						
17						
18						
19						
20						

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

Trial Number:			27			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5504.5			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	13	1576	-	574088
2	2	75.7	13	1158	-	767360
3	2	73.7	13	1147	-	163563
4	2	82.9	13	1791	-	356748
5	3	87.4	13	1209	1169	549286
6	3	91.3	13	1193	1426	742656
7	1	53.4	13	-	-	140002
8	3	85.7	13	1780	1204	332180
9	2	75.1	13	1688	-	526378
10	3	89.7	13	1985	1131	717685
11	3	90.4	13	1029	1679	115667
12	1	55.9	13	-	-	309679
13	3	94	13	1784	1255	501595
14	2	74.9	13	1673	-	695586
15	1	65.5	13	-	-	92283
16						
17						
18						
19						
20						

Trial Number:			28			Detection (Yes/No)
Number of Bursts in Trial:			14			
Chirp Center Frequency:			5504.5			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	93.5	13	1178	1479	305572
2	3	93.6	13	1753	1159	512010
3	1	55.8	13	-	-	721738
4	1	58.2	13	-	-	73302
5	2	68.6	13	1871	-	280035
6	2	67.9	13	1132	-	487421
7	1	54.5	13	-	-	695989
8	1	64.5	13	-	-	47708
9	3	99.1	13	1340	1111	254484
10	2	67.9	13	1741	-	461709
11	1	51.3	13	-	-	670445
12	3	85.4	13	1763	1747	22076
13	3	93	13	1775	1575	228799
14	1	62.8	13	-	-	436974
15						
16						
17						
18						
19						
20						

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

Trial Number:			29			Detection (Yes/No)
Number of Bursts in Trial:			19			
Chirp Center Frequency:			5502.1			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	54.3	19	-	-	474767
2	1	51.7	19	-	-	627665
3	1	63.9	19	-	-	150218
4	3	99.3	19	1311	1088	301871
5	1	57.3	19	-	-	455686
6	2	75	19	1373	-	607519
7	1	62.5	19	-	-	131548
8	3	85.8	19	1281	1613	282833
9	3	96.5	19	1220	1554	435335
10	2	78.6	19	1922	-	588405
11	2	75.6	19	1585	-	112367
12	3	99.8	19	1107	1465	264289
13	1	50.4	19	-	-	418435
14	2	79.4	19	1086	-	570399
15	3	84.3	19	1643	1727	93353
16	1	65.6	19	-	-	246584
17	1	57.8	19	-	-	399499
18	1	50.3	19	-	-	552271
19	2	70	19	1078	-	74936
20						

Trial Number:			30			Detection (Yes/No)
Number of Bursts in Trial:			16			
Chirp Center Frequency:			5503.7			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	15	1404	-	270273
2	2	70.3	15	1974	-	451002
3	2	78.4	15	1582	-	632365
4	1	61.6	15	-	-	66781
5	3	91.3	15	1615	1919	247235
6	2	76.5	15	1378	-	428791
7	3	96.4	15	1589	1019	609163
8	1	62.4	15	-	-	44384
9	1	61.1	15	-	-	225852
10	2	74.7	15	1007	-	406852
11	1	64.9	15	-	-	589122
12	3	86.1	15	1176	1544	21949
13	1	55.8	15	-	-	203470
14	1	60.4	15	-	-	385020
15	2	72.8	15	1138	-	566118
16	2	70.7	15	1462	-	746956
17						
18						
19						
20						

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	22	1066.10	938	Yes
2	8	1519.76	658	Yes
3	12	1355.01	738	Yes
4	20	1113.59	898	Yes
5	17	1193.32	838	Yes
6	1	1930.50	518	Yes
7	3	1792.11	558	Yes
8	11	1392.76	718	No
9	7	1567.40	638	Yes
10	16	1222.49	818	Yes
11	9	1474.93	678	Yes
12	5	1672.24	598	Yes
13	10	1432.66	698	Yes
14	13	1319.26	758	Yes
15	14	1285.35	778	Yes
16		973.71	1027	Yes
17		650.20	1538	Yes
18		340.14	2940	Yes
19		1379.31	725	Yes
20		569.80	1755	Yes
21		544.96	1835	Yes
22		347.58	2877	Yes
23		755.29	1324	Yes
24		1254.71	797	Yes
25		441.31	2266	Yes
26		729.93	1370	Yes
27		1572.33	636	Yes
28		813.01	1230	Yes
29		630.52	1586	Yes
30		364.83	2741	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	24	2.00	150	No
2	23	1.40	166	Yes
3	23	1.10	199	Yes
4	25	2.50	168	Yes
5	28	4.40	225	Yes
6	26	2.90	223	Yes
7	24	1.70	190	Yes
8	25	2.60	196	Yes
9	26	3.20	205	Yes
10	28	4.30	218	Yes
11	23	1.30	215	Yes
12	25	2.40	217	Yes
13	27	3.40	181	Yes
14	23	1.40	204	Yes
15	27	3.90	229	Yes
16	29	4.60	161	Yes
17	27	3.90	159	Yes
18	27	3.50	193	Yes
19	27	3.70	182	Yes
20	23	1.30	209	Yes
21	26	2.90	198	Yes
22	23	1.50	172	Yes
23	27	3.70	163	Yes
24	29	4.50	167	Yes
25	23	1.30	158	Yes
26	25	2.30	151	Yes
27	23	1.30	174	Yes
28	23	1.00	206	Yes
29	27	3.80	162	Yes
30	26	3.20	202	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	16	7.00	259	No
2	16	6.40	273	Yes
3	16	6.10	361	Yes
4	17	7.50	374	Yes
5	18	9.40	205	No
6	17	7.90	393	Yes
7	16	6.70	260	Yes
8	17	7.60	470	Yes
9	17	8.20	315	Yes
10	18	9.30	483	Yes
11	16	6.30	379	Yes
12	17	7.40	351	Yes
13	17	8.40	325	Yes
14	16	6.40	328	Yes
15	18	8.90	220	Yes
16	18	9.60	219	Yes
17	18	8.90	403	Yes
18	17	8.50	248	Yes
19	18	8.70	444	Yes
20	16	6.30	223	Yes
21	17	7.90	214	No
22	16	6.50	364	Yes
23	18	8.70	213	Yes
24	18	9.50	334	Yes
25	16	6.30	317	No
26	16	7.30	349	Yes
27	16	6.30	474	Yes
28	16	6.00	450	Yes
29	18	8.80	406	Yes
30	17	8.20	438	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	13	13.40	259	Yes
2	12	11.90	273	Yes
3	12	11.20	361	No
4	13	14.30	374	Yes
5	16	18.50	205	Yes
6	14	15.40	393	Yes
7	12	12.70	260	Yes
8	13	14.50	470	Yes
9	14	15.90	315	Yes
10	16	18.30	483	Yes
11	12	11.80	379	Yes
12	13	14.10	351	Yes
13	14	16.30	325	Yes
14	12	11.90	328	No
15	15	17.40	220	Yes
16	16	19.00	219	Yes
17	15	17.40	403	Yes
18	15	16.70	248	Yes
19	15	17.10	444	Yes
20	12	11.70	223	Yes
21	14	15.30	214	No
22	12	12.20	364	Yes
23	15	17.10	213	No
24	16	18.90	334	Yes
25	12	11.80	317	Yes
26	13	13.90	349	Yes
27	12	11.70	474	No
28	12	11.00	450	Yes
29	15	17.30	406	Yes
30	14	16.00	438	Yes

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

Trial Number:			1			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	90.2	17	1628	1282	30949
2	2	76.7	17	1915	-	191953
3	2	79.3	17	1481	-	353175
4	2	67.6	17	1106	-	514285
5	3	90.5	17	1555	1499	11166
6	2	83	17	1814	-	172069
7	3	91.4	17	1197	1698	332641
8	1	66.3	17	-	-	495255
9	1	60.1	17	-	-	656773
10	3	90.6	17	1944	1061	151906
11	1	62.2	17	-	-	313935
12	1	51.5	17	-	-	475144
13	1	60.1	17	-	-	636881
14	1	55.2	17	-	-	132871
15	1	54	17	-	-	294082
16	1	56.6	17	-	-	455175
17	2	80.8	17	1213	-	615310
18	1	60.6	17	-	-	112895
19						
20						

Trial Number:			2			Detection (Yes/No)
Number of Bursts in Trial:			14			
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	73.6	13	1393	-	352249
2	3	94.8	13	1647	1237	558310
3	2	70.6	13	1100	-	766637
4	1	55.2	13	-	-	119747
5	1	53.8	13	-	-	327175
6	3	98.7	13	1266	1652	532961
7	2	78.3	13	1108	-	741187
8	2	77.4	13	1012	-	94026
9	2	77.4	13	1287	-	301303
10	2	75.7	13	1047	-	508734
11	3	93.9	13	1000	1798	714054
12	2	81.3	13	1896	-	68432
13	3	89	13	1657	1873	274905
14	3	95.5	13	1491	1719	481673
15						
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DFS Radar Parameters
FCC Radar Type 5
Channel 102 Bandwidth 40MHz

Trial Number:			3			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	1	65.3	14	-	-	645337
2	2	81.9	14	1395	-	40093
3	1	64.3	14	-	-	233848
4	3	91.6	14	1298	1463	425910
5	1	62.5	14	-	-	620865
6	1	53.4	14	-	-	16306
7	1	63.9	14	-	-	209869
8	2	73.4	14	1931	-	402566
9	3	99.9	14	1998	1899	594246
10	2	80.5	14	1418	-	789156
11	3	84.2	14	1621	1901	185261
12	2	82.5	14	1973	-	378657
13	2	72.4	14	1080	-	572917
14	3	96.3	14	1286	1445	764375
15	2	79.7	14	1782	-	161921
16						
17						
18						
19						
20						

Trial Number:			4			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	3	89.5	10	1777	1935	443314
2	3	93	10	1789	1229	685100
3	1	50	10	-	-	929041
4	3	85.2	10	1242	1761	172524
5	3	84.9	10	1709	1408	413953
6	2	69	10	1869	-	656484
7	1	52.4	10	-	-	899199
8	2	76.2	10	1806	-	142915
9	3	85	10	1750	1520	384322
10	2	72.8	10	1845	-	626480
11	2	80.7	10	1892	-	868114
12	3	89.4	10	1840	1704	113008
13						
14						
15						
16						
17						
18						
19						
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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:			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	1	63.1	17	-	-	236902
2	1	55.6	17	-	-	398446
3	1	65.6	17	-	-	559882
4	2	72.4	17	1154	-	55538
5	2	78.9	17	1427	-	216374
6	1	51.6	17	-	-	378543
7	2	66.8	17	1795	-	538059
8	3	86.3	17	1379	1140	35692
9	2	78.2	17	1152	-	196645
10	3	91	17	1208	1482	357257
11	1	62.4	17	-	-	519635
12	3	94.1	17	1262	1569	15860
13	2	77.4	17	1382	-	176970
14	3	96.7	17	1150	1058	337528
15	1	50.1	17	-	-	499810
16	3	94.9	17	1793	1837	658110
17	3	90.1	17	1057	1968	156576
18	2	71	17	1726	-	318036
19						
20						

Trial Number:			6			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	2	71.3	15	1616	-	538679
2	2	76.2	15	1958	-	719811
3	2	82	15	1316	-	154397
4	3	97.8	15	1243	1663	335096
5	3	87.9	15	1697	1731	515604
6	2	82.8	15	1805	-	697673
7	3	93.9	15	1602	1071	131924
8	3	96.2	15	1841	1558	312624
9	1	54	15	-	-	495166
10	2	76.5	15	1682	-	675442
11	1	62.8	15	-	-	110068
12	1	55.6	15	-	-	291531
13	2	79.3	15	1225	-	472627
14	2	68.7	15	1640	-	652935
15	2	81.9	15	1564	-	87531
16	1	64	15	-	-	269174
17						
18						
19						
20						

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

Trial Number:			7			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	1	50.8	18	-	-	400670
2	2	67.8	18	1844	-	560495
3	3	84.2	18	1344	1534	57763
4	1	58.1	18	-	-	219382
5	1	55.3	18	-	-	380533
6	2	80.9	18	1655	-	540589
7	1	55.6	18	-	-	38126
8	1	60	18	-	-	199618
9	1	51.4	18	-	-	360941
10	3	98.6	18	1400	1797	519482
11	2	80.5	18	1318	-	18255
12	1	55.9	18	-	-	179555
13	1	57.8	18	-	-	341104
14	3	88.2	18	1081	1742	499804
15	2	68.8	18	1031	-	662993
16	1	57.6	18	-	-	159853
17	3	86.2	18	1920	1307	319359
18	1	63.9	18	-	-	482304
19						
20						

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	1	51.5	10	-	-	966656
2	1	54.4	10	-	-	210029
3	1	57.4	10	-	-	452127
4	1	65.3	10	-	-	694074
5	2	67.7	10	1052	-	935402
6	2	82.9	10	1767	-	179741
7	2	78.6	10	1082	-	421984
8	2	82.7	10	1096	-	663731
9	3	97.6	10	1942	1939	902850
10	3	90.3	10	1980	1813	149723
11	2	73.5	10	1839	-	391543
12	2	72.6	10	1241	-	633669
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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:			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	1	61.6	8	-	-	1052574
2	3	93.8	8	1235	1559	144273
3	1	62.2	8	-	-	435147
4	1	63.3	8	-	-	725709
5	3	95.8	8	1876	1240	1013788
6	2	82.3	8	1913	-	108644
7	1	60.6	8	-	-	399488
8	2	81.9	8	1234	-	689234
9	1	65.7	8	-	-	980860
10	3	90.5	8	1560	1398	72792
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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	2	70.6	17	1950	-	201117
2	2	72	17	1617	-	362410
3	3	96.4	17	1327	1821	521844
4	3	89.4	17	1947	1310	20548
5	1	52.2	17	-	-	182086
6	3	87.9	17	1025	1573	342138
7	3	88.4	17	1346	1089	502646
8	1	65.9	17	-	-	764
9	1	57.6	17	-	-	162205
10	1	55.2	17	-	-	323467
11	2	69.5	17	1811	-	483529
12	1	65.3	17	-	-	646184
13	2	67.2	17	1769	-	141874
14	2	77.5	17	1083	-	303222
15	1	56.6	17	-	-	464625
16	3	85.6	17	1351	1969	622910
17	1	50.1	17	-	-	122337
18	1	51.3	17	-	-	283542
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DFS Radar Parameters
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Channel 102 Bandwidth 40MHz

Trial Number:			11			Detection (Yes/No)
Number of Bursts in Trial:			11			
Chirp Center Frequency:			5494.2			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	79.5	8	1938	-	727831
2	2	72.6	8	1252	-	991717
3	2	83.3	8	1822	-	167557
4	1	65.3	8	-	-	432154
5	3	86.5	8	1224	1478	694633
6	2	78.9	8	1013	-	959631
7	3	86.9	8	1269	1006	135016
8	3	86.8	8	1127	1997	398468
9	3	93.8	8	1735	1590	661769
10	3	94.5	8	1787	1385	925174
11	3	92.4	8	1749	1910	102422
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Trial Number:			12			Detection (Yes/No)
Number of Bursts in Trial:			8			
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	3	86.6	5	1648	1494	503759
2	3	97	5	1508	1887	866256
3	1	54.2	5	-	-	1231598
4	3	98.2	5	1566	1743	96373
5	1	61	5	-	-	459974
6	3	83.9	5	1926	1827	821488
7	3	85.4	5	1289	1642	1184344
8	2	69	5	1439	-	51728
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DFS Radar Parameters
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Channel 102 Bandwidth 40MHz

Trial Number:			13			Detection (Yes/No)
Number of Bursts in Trial:			10			
Chirp Center Frequency:			5494.2			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	78.4	8	1317	-	331711
2	2	80.6	8	1918	-	621843
3	3	90.8	8	1302	1888	910718
4	3	94.4	8	1857	1808	5599
5	2	81.7	8	1436	-	295867
6	2	82.7	8	1661	-	586380
7	2	68.2	8	1665	-	876716
8	1	53	8	-	-	1168144
9	3	96.3	8	1924	1505	259641
10	2	76.6	8	1713	-	550474
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Trial Number:			14			Detection (Yes/No)
Number of Bursts in Trial:			9			
Chirp Center Frequency:			5493.4			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	84.7	6	1563	1456	933417
2	1	56.6	6	-	-	1258069
3	1	60.2	6	-	-	249733
4	2	82.2	6	1649	-	571984
5	1	59.3	6	-	-	895960
6	1	52.3	6	-	-	1218747
7	3	93.2	6	1884	1285	209357
8	1	57.1	6	-	-	532751
9	1	55.2	6	-	-	855848
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Trial Number:			15			Detection (Yes/No)
Number of Bursts in Trial:			9			
Chirp Center Frequency:			5493.4			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	85.5	6	1477	1522	1175891
2	2	67.5	6	1666	-	169928
3	1	52.4	6	-	-	493188
4	1	65.5	6	-	-	816323
5	3	94.1	6	1654	1263	1136979
6	3	93.9	6	1636	1852	129991
7	2	73.5	6	1306	-	452797
8	2	71.1	6	1473	-	775494
9	1	58.3	6	-	-	1099391
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Trial Number:			16			Detection (Yes/No)
Number of Bursts in Trial:			9			
Chirp Center Frequency:			5493.8			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	65.2	7	-	-	90535
2	2	67.1	7	1423	-	413016
3	1	56.1	7	-	-	736283
4	3	93.7	7	1313	1511	1057367
5	2	71.2	7	2000	-	50673
6	1	66.5	7	-	-	373877
7	2	71.8	7	1432	-	695806
8	2	70.7	7	1651	-	1018261
9	3	88.8	7	1916	1577	10926
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DFS Radar Parameters
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Trial Number:			17			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5496.6			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	78.3	14	1454	-	199830
2	1	51.5	14	-	-	393961
3	2	82.7	14	1446	-	586846
4	2	68.3	14	1214	-	780453
5	2	75.8	14	1675	-	175971
6	3	90.6	14	1027	1561	368628
7	1	60.2	14	-	-	563522
8	1	59.1	14	-	-	757343
9	3	87.8	14	1041	1819	152007
10	2	82.1	14	1099	-	345555
11	1	54.3	14	-	-	539768
12	3	87.6	14	1501	1038	731260
13	1	51.8	14	-	-	128631
14	1	55	14	-	-	322323
15	1	53.8	14	-	-	515786
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Trial Number:			18			Detection (Yes/No)
Number of Bursts in Trial:			10			
Chirp Center Frequency:			5494.2			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	78.6	8	1832	-	1063279
2	3	100	8	1102	1724	156913
3	1	51.5	8	-	-	447969
4	2	75.9	8	1591	-	737929
5	1	65.1	8	-	-	1029515
6	3	96.8	8	1347	1397	121218
7	1	50.4	8	-	-	412089
8	1	58.2	8	-	-	702839
9	1	61.5	8	-	-	993637
10	1	59.9	8	-	-	85721
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Trial Number:			19			Detection (Yes/No)
Number of Bursts in Trial:			14			
Chirp Center Frequency:			5495.8			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	87.9	12	1867	1820	267401
2	2	79.2	12	1757	-	475341
3	2	70.4	12	1284	-	682690
4	3	91.1	12	1434	1374	35491
5	3	85.5	12	1695	1552	242271
6	3	93.8	12	1959	1233	448754
7	1	60.4	12	-	-	658416
8	3	88.6	12	1515	1906	10018
9	1	63.6	12	-	-	217567
10	1	64.8	12	-	-	425214
11	1	55.6	12	-	-	632989
12	2	72.6	12	1337	-	838721
13	2	67.2	12	1912	-	191486
14	3	91.7	12	1148	1850	398317
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Trial Number:			20			Detection (Yes/No)
Number of Bursts in Trial:			19			
Chirp Center Frequency:			5498.6			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	61.8	19	-	-	447050
2	1	55.2	19	-	-	599783
3	3	84.9	19	1338	1441	122081
4	1	56.1	19	-	-	275588
5	3	91.4	19	1381	1639	426133
6	2	66.7	19	1872	-	579676
7	2	70.7	19	1891	-	103504
8	1	63.3	19	-	-	256508
9	1	62.1	19	-	-	409506
10	1	52.2	19	-	-	561803
11	1	65	19	-	-	84928
12	2	71.3	19	1388	-	237133
13	1	64.9	19	-	-	390297
14	3	95.9	19	1825	1812	540063
15	1	55.5	19	-	-	66125
16	3	92.1	19	1963	1945	217619
17	2	77.9	19	1637	-	370613
18	3	93.4	19	1104	1377	522814
19	2	71.1	19	1363	-	47169
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Trial Number:			21			Detection (Yes/No)
Number of Bursts in Trial:			13			
Chirp Center Frequency:			5524.6			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	58.3	11	-	-	292546
2	3	87.9	11	1599	1625	514354
3	1	61.4	11	-	-	739825
4	3	89.8	11	1738	1053	41487
5	2	68	11	1063	-	264899
6	1	52.3	11	-	-	488744
7	3	88.4	11	1390	1693	710090
8	3	93.9	11	1680	1295	14049
9	3	99	11	1833	1325	236723
10	3	88.3	11	1126	1342	459970
11	3	90.2	11	1620	1073	682689
12	3	98.3	11	1183	1371	906075
13	1	56	11	-	-	209963
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Trial Number:			22			Detection (Yes/No)
Number of Bursts in Trial:			9			
Chirp Center Frequency:			5526.6			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	82.8	6	1117	-	626048
2	1	59.8	6	-	-	949616
3	1	64.1	6	-	-	1272282
4	1	59.8	6	-	-	263837
5	1	61.8	6	-	-	586964
6	3	94.4	6	1139	1125	908090
7	2	66.8	6	1737	-	1231111
8	3	94.8	6	1990	1835	223375
9	3	89.2	6	1443	1239	546088
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Trial Number:			23			Detection (Yes/No)
Number of Bursts in Trial:			8			
Chirp Center Frequency:			5526.6			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	74.5	6	1681	-	977826
2	2	67	6	1549	-	1340530
3	2	68.2	6	1416	-	207042
4	2	76	6	1201	-	570192
5	1	64.2	6	-	-	934105
6	2	78.8	6	1467	-	1296531
7	1	64.6	6	-	-	162530
8	2	83.1	6	1168	-	525678
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Trial Number:			24			Detection (Yes/No)
Number of Bursts in Trial:			20			
Chirp Center Frequency:			5521			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	71.5	20	1937	-	354351
2	3	87	20	1002	1044	498999
3	1	62.2	20	-	-	47068
4	1	51.4	20	-	-	192285
5	1	58.8	20	-	-	337586
6	1	53.8	20	-	-	482707
7	1	50.3	20	-	-	29175
8	1	65.5	20	-	-	174167
9	2	66.9	20	1993	-	318645
10	1	53.7	20	-	-	464494
11	1	53	20	-	-	11267
12	2	72.9	20	1292	-	156040
13	2	71.8	20	1729	-	300920
14	2	75	20	1218	-	446043
15	2	71.9	20	1928	-	590310
16	1	53.9	20	-	-	138471
17	1	59	20	-	-	283492
18	3	88.5	20	1265	1776	426393
19	1	55.1	20	-	-	574253
20	2	81.7	20	1903	-	120351

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Trial Number:			25			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5523.4			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	14	1276	1510	353407
2	2	80.3	14	1524	-	547119
3	3	83.6	14	1728	1860	738692
4	2	76.6	14	1531	-	136849
5	2	76.3	14	1914	-	329884
6	2	69.1	14	1631	-	523236
7	1	63.4	14	-	-	717752
8	3	94.5	14	1182	1530	112940
9	2	71.5	14	1543	-	306191
10	3	92	14	1971	1358	498595
11	3	88.2	14	1676	1470	691337
12	1	59.5	14	-	-	89371
13	2	79.3	14	1251	-	282571
14	1	65.9	14	-	-	476764
15	2	66.8	14	1032	-	669757
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Trial Number:			26			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5523.8			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	53.2	13	-	-	65532
2	3	86.1	13	1419	1112	258371
3	1	54.5	13	-	-	452877
4	2	74	13	1948	-	645074
5	1	56	13	-	-	41723
6	1	63.8	13	-	-	235384
7	3	94.4	13	1120	1490	427889
8	3	94.9	13	1881	1097	620317
9	3	90.6	13	1452	1493	17797
10	1	63.8	13	-	-	211585
11	2	71.9	13	1194	-	404809
12	2	67.4	13	1556	-	597946
13	3	99.6	13	1303	1161	790253
14	3	95.2	13	1291	1109	187179
15	1	64.2	13	-	-	381353
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Trial Number:			27			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5523.8			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	13	1576	-	574088
2	2	75.7	13	1158	-	767360
3	2	73.7	13	1147	-	163563
4	2	82.9	13	1791	-	356748
5	3	87.4	13	1209	1169	549286
6	3	91.3	13	1193	1426	742656
7	1	53.4	13	-	-	140002
8	3	85.7	13	1780	1204	332180
9	2	75.1	13	1688	-	526378
10	3	89.7	13	1985	1131	717685
11	3	90.4	13	1029	1679	115667
12	1	55.9	13	-	-	309679
13	3	94	13	1784	1255	501595
14	2	74.9	13	1673	-	695586
15	1	65.5	13	-	-	92283
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Trial Number:			28			Detection (Yes/No)
Number of Bursts in Trial:			14			
Chirp Center Frequency:			5523.8			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	93.5	13	1178	1479	305572
2	3	93.6	13	1753	1159	512010
3	1	55.8	13	-	-	721738
4	1	58.2	13	-	-	73302
5	2	68.6	13	1871	-	280035
6	2	67.9	13	1132	-	487421
7	1	54.5	13	-	-	695989
8	1	64.5	13	-	-	47708
9	3	99.1	13	1340	1111	254484
10	2	67.9	13	1741	-	461709
11	1	51.3	13	-	-	670445
12	3	85.4	13	1763	1747	22076
13	3	93	13	1775	1575	228799
14	1	62.8	13	-	-	436974
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Trial Number:			29			Detection (Yes/No)
Number of Bursts in Trial:			19			
Chirp Center Frequency:			5521.4			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	54.3	19	-	-	474767
2	1	51.7	19	-	-	627665
3	1	63.9	19	-	-	150218
4	3	99.3	19	1311	1088	301871
5	1	57.3	19	-	-	455686
6	2	75	19	1373	-	607519
7	1	62.5	19	-	-	131548
8	3	85.8	19	1281	1613	282833
9	3	96.5	19	1220	1554	435335
10	2	78.6	19	1922	-	588405
11	2	75.6	19	1585	-	112367
12	3	99.8	19	1107	1465	264289
13	1	50.4	19	-	-	418435
14	2	79.4	19	1086	-	570399
15	3	84.3	19	1643	1727	93353
16	1	65.6	19	-	-	246584
17	1	57.8	19	-	-	399499
18	1	50.3	19	-	-	552271
19	2	70	19	1078	-	74936
20						

Trial Number:			30			Detection (Yes/No)
Number of Bursts in Trial:			16			
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	75	15	1404	-	270273
2	2	70.3	15	1974	-	451002
3	2	78.4	15	1582	-	632365
4	1	61.6	15	-	-	66781
5	3	91.3	15	1615	1919	247235
6	2	76.5	15	1378	-	428791
7	3	96.4	15	1589	1019	609163
8	1	62.4	15	-	-	44384
9	1	61.1	15	-	-	225852
10	2	74.7	15	1007	-	406852
11	1	64.9	15	-	-	589122
12	3	86.1	15	1176	1544	21949
13	1	55.8	15	-	-	203470
14	1	60.4	15	-	-	385020
15	2	72.8	15	1138	-	566118
16	2	70.7	15	1462	-	746956
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19						
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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	22	1066.10	938	Yes
2	8	1519.76	658	Yes
3	12	1355.01	738	Yes
4	20	1113.59	898	Yes
5	17	1193.32	838	Yes
6	1	1930.50	518	Yes
7	3	1792.11	558	Yes
8	11	1392.76	718	No
9	7	1567.40	638	Yes
10	16	1222.49	818	Yes
11	9	1474.93	678	Yes
12	5	1672.24	598	Yes
13	10	1432.66	698	Yes
14	13	1319.26	758	Yes
15	14	1285.35	778	Yes
16		973.71	1027	Yes
17		650.20	1538	Yes
18		340.14	2940	Yes
19		1379.31	725	Yes
20		569.80	1755	Yes
21		544.96	1835	Yes
22		347.58	2877	Yes
23		755.29	1324	Yes
24		1254.71	797	Yes
25		441.31	2266	Yes
26		729.93	1370	Yes
27		1572.33	636	Yes
28		813.01	1230	Yes
29		630.52	1586	Yes
30		364.83	2741	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	24	2.00	150	Yes
2	23	1.40	166	Yes
3	23	1.10	199	Yes
4	25	2.50	168	Yes
5	28	4.40	225	Yes
6	26	2.90	223	Yes
7	24	1.70	190	Yes
8	25	2.60	196	Yes
9	26	3.20	205	Yes
10	28	4.30	218	Yes
11	23	1.30	215	Yes
12	25	2.40	217	Yes
13	27	3.40	181	No
14	23	1.40	204	Yes
15	27	3.90	229	Yes
16	29	4.60	161	Yes
17	27	3.90	159	No
18	27	3.50	193	Yes
19	27	3.70	182	Yes
20	23	1.30	209	Yes
21	26	2.90	198	Yes
22	23	1.50	172	Yes
23	27	3.70	163	Yes
24	29	4.50	167	Yes
25	23	1.30	158	Yes
26	25	2.30	151	Yes
27	23	1.30	174	Yes
28	23	1.00	206	Yes
29	27	3.80	162	Yes
30	26	3.20	202	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	16	7.00	259	Yes
2	16	6.40	273	Yes
3	16	6.10	361	No
4	17	7.50	374	No
5	18	9.40	205	Yes
6	17	7.90	393	No
7	16	6.70	260	Yes
8	17	7.60	470	Yes
9	17	8.20	315	Yes
10	18	9.30	483	Yes
11	16	6.30	379	No
12	17	7.40	351	Yes
13	17	8.40	325	Yes
14	16	6.40	328	Yes
15	18	8.90	220	Yes
16	18	9.60	219	Yes
17	18	8.90	403	Yes
18	17	8.50	248	Yes
19	18	8.70	444	Yes
20	16	6.30	223	No
21	17	7.90	214	Yes
22	16	6.50	364	Yes
23	18	8.70	213	No
24	18	9.50	334	Yes
25	16	6.30	317	No
26	16	7.30	349	No
27	16	6.30	474	Yes
28	16	6.00	450	Yes
29	18	8.80	406	Yes
30	17	8.20	438	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	13	13.40	259	No
2	12	11.90	273	Yes
3	12	11.20	361	Yes
4	13	14.30	374	No
5	16	18.50	205	No
6	14	15.40	393	Yes
7	12	12.70	260	Yes
8	13	14.50	470	Yes
9	14	15.90	315	Yes
10	16	18.30	483	Yes
11	12	11.80	379	Yes
12	13	14.10	351	Yes
13	14	16.30	325	No
14	12	11.90	328	Yes
15	15	17.40	220	No
16	16	19.00	219	Yes
17	15	17.40	403	Yes
18	15	16.70	248	Yes
19	15	17.10	444	Yes
20	12	11.70	223	Yes
21	14	15.30	214	No
22	12	12.20	364	No
23	15	17.10	213	Yes
24	16	18.90	334	Yes
25	12	11.80	317	Yes
26	13	13.90	349	Yes
27	12	11.70	474	Yes
28	12	11.00	450	Yes
29	15	17.30	406	No
30	14	16.00	438	Yes

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

Trial Number:			1			Detection (Yes/No)
Number of Bursts in Trial:			18			
Chirp Center Frequency:			5530			
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	90.2	17	1628	1282	30949
2	2	76.7	17	1915	-	191953
3	2	79.3	17	1481	-	353175
4	2	67.6	17	1106	-	514285
5	3	90.5	17	1555	1499	11166
6	2	83	17	1814	-	172069
7	3	91.4	17	1197	1698	332641
8	1	66.3	17	-	-	495255
9	1	60.1	17	-	-	656773
10	3	90.6	17	1944	1061	151906
11	1	62.2	17	-	-	313935
12	1	51.5	17	-	-	475144
13	1	60.1	17	-	-	636881
14	1	55.2	17	-	-	132871
15	1	54	17	-	-	294082
16	1	56.6	17	-	-	455175
17	2	80.8	17	1213	-	615310
18	1	60.6	17	-	-	112895
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Trial Number:			2			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	2	73.6	13	1393	-	352249
2	3	94.8	13	1647	1237	558310
3	2	70.6	13	1100	-	766637
4	1	55.2	13	-	-	119747
5	1	53.8	13	-	-	327175
6	3	98.7	13	1266	1652	532961
7	2	78.3	13	1108	-	741187
8	2	77.4	13	1012	-	94026
9	2	77.4	13	1287	-	301303
10	2	75.7	13	1047	-	508734
11	3	93.9	13	1000	1798	714054
12	2	81.3	13	1896	-	68432
13	3	89	13	1657	1873	274905
14	3	95.5	13	1491	1719	481673
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DFS Radar Parameters
FCC Radar Type 5
Channel 106 Bandwidth 80MHz

Trial Number:			3			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	1	65.3	14	-	-	645337
2	2	81.9	14	1395	-	40093
3	1	64.3	14	-	-	233848
4	3	91.6	14	1298	1463	425910
5	1	62.5	14	-	-	620865
6	1	53.4	14	-	-	16306
7	1	63.9	14	-	-	209869
8	2	73.4	14	1931	-	402566
9	3	99.9	14	1998	1899	594246
10	2	80.5	14	1418	-	789156
11	3	84.2	14	1621	1901	185261
12	2	82.5	14	1973	-	378657
13	2	72.4	14	1080	-	572917
14	3	96.3	14	1286	1445	764375
15	2	79.7	14	1782	-	161921
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Trial Number:			4			Detection (Yes/No)
Number of Bursts in Trial:			12			
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	89.5	10	1777	1935	443314
2	3	93	10	1789	1229	685100
3	1	50	10	-	-	929041
4	3	85.2	10	1242	1761	172524
5	3	84.9	10	1709	1408	413953
6	2	69	10	1869	-	656484
7	1	52.4	10	-	-	899199
8	2	76.2	10	1806	-	142915
9	3	85	10	1750	1520	384322
10	2	72.8	10	1845	-	626480
11	2	80.7	10	1892	-	868114
12	3	89.4	10	1840	1704	113008
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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:			18			
Chirp Center Frequency:			5530			
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	63.1	17	-	-	236902
2	1	55.6	17	-	-	398446
3	1	65.6	17	-	-	559882
4	2	72.4	17	1154	-	55538
5	2	78.9	17	1427	-	216374
6	1	51.6	17	-	-	378543
7	2	66.8	17	1795	-	538059
8	3	86.3	17	1379	1140	35692
9	2	78.2	17	1152	-	196645
10	3	91	17	1208	1482	357257
11	1	62.4	17	-	-	519635
12	3	94.1	17	1262	1569	15860
13	2	77.4	17	1382	-	176970
14	3	96.7	17	1150	1058	337528
15	1	50.1	17	-	-	499810
16	3	94.9	17	1793	1837	658110
17	3	90.1	17	1057	1968	156576
18	2	71	17	1726	-	318036
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Trial Number:			6			Detection (Yes/No)
Number of Bursts in Trial:			16			
Chirp Center Frequency:			5530			
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	71.3	15	1616	-	538679
2	2	76.2	15	1958	-	719811
3	2	82	15	1316	-	154397
4	3	97.8	15	1243	1663	335096
5	3	87.9	15	1697	1731	515604
6	2	82.8	15	1805	-	697673
7	3	93.9	15	1602	1071	131924
8	3	96.2	15	1841	1558	312624
9	1	54	15	-	-	495166
10	2	76.5	15	1682	-	675442
11	1	62.8	15	-	-	110068
12	1	55.6	15	-	-	291531
13	2	79.3	15	1225	-	472627
14	2	68.7	15	1640	-	652935
15	2	81.9	15	1564	-	87531
16	1	64	15	-	-	269174
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DFS Radar Parameters
FCC Radar Type 5
Channel 106 Bandwidth 80MHz

Trial Number:			7			Detection (Yes/No)
Number of Bursts in Trial:			18			
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	50.8	18	-	-	400670
2	2	67.8	18	1844	-	560495
3	3	84.2	18	1344	1534	57763
4	1	58.1	18	-	-	219382
5	1	55.3	18	-	-	380533
6	2	80.9	18	1655	-	540589
7	1	55.6	18	-	-	38126
8	1	60	18	-	-	199618
9	1	51.4	18	-	-	360941
10	3	98.6	18	1400	1797	519482
11	2	80.5	18	1318	-	18255
12	1	55.9	18	-	-	179555
13	1	57.8	18	-	-	341104
14	3	88.2	18	1081	1742	499804
15	2	68.8	18	1031	-	662993
16	1	57.6	18	-	-	159853
17	3	86.2	18	1920	1307	319359
18	1	63.9	18	-	-	482304
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Trial Number:			8			Detection (Yes/No)
Number of Bursts in Trial:			12			
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	51.5	10	-	-	966656
2	1	54.4	10	-	-	210029
3	1	57.4	10	-	-	452127
4	1	65.3	10	-	-	694074
5	2	67.7	10	1052	-	935402
6	2	82.9	10	1767	-	179741
7	2	78.6	10	1082	-	421984
8	2	82.7	10	1096	-	663731
9	3	97.6	10	1942	1939	902850
10	3	90.3	10	1980	1813	149723
11	2	73.5	10	1839	-	391543
12	2	72.6	10	1241	-	633669
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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:			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	1	61.6	8	-	-	1052574
2	3	93.8	8	1235	1559	144273
3	1	62.2	8	-	-	435147
4	1	63.3	8	-	-	725709
5	3	95.8	8	1876	1240	1013788
6	2	82.3	8	1913	-	108644
7	1	60.6	8	-	-	399488
8	2	81.9	8	1234	-	689234
9	1	65.7	8	-	-	980860
10	3	90.5	8	1560	1398	72792
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Trial Number:			10			Detection (Yes/No)
Number of Bursts in Trial:			18			
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	70.6	17	1950	-	201117
2	2	72	17	1617	-	362410
3	3	96.4	17	1327	1821	521844
4	3	89.4	17	1947	1310	20548
5	1	52.2	17	-	-	182086
6	3	87.9	17	1025	1573	342138
7	3	88.4	17	1346	1089	502646
8	1	65.9	17	-	-	764
9	1	57.6	17	-	-	162205
10	1	55.2	17	-	-	323467
11	2	69.5	17	1811	-	483529
12	1	65.3	17	-	-	646184
13	2	67.2	17	1769	-	141874
14	2	77.5	17	1083	-	303222
15	1	56.6	17	-	-	464625
16	3	85.6	17	1351	1969	622910
17	1	50.1	17	-	-	122337
18	1	51.3	17	-	-	283542
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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:			11			
Chirp Center Frequency:			5494.7			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	79.5	8	1938	-	727831
2	2	72.6	8	1252	-	991717
3	2	83.3	8	1822	-	167557
4	1	65.3	8	-	-	432154
5	3	86.5	8	1224	1478	694633
6	2	78.9	8	1013	-	959631
7	3	86.9	8	1269	1006	135016
8	3	86.8	8	1127	1997	398468
9	3	93.8	8	1735	1590	661769
10	3	94.5	8	1787	1385	925174
11	3	92.4	8	1749	1910	102422
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Trial Number:			12			Detection (Yes/No)
Number of Bursts in Trial:			8			
Chirp Center Frequency:			5493.5			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	86.6	5	1648	1494	503759
2	3	97	5	1508	1887	866256
3	1	54.2	5	-	-	1231598
4	3	98.2	5	1566	1743	96373
5	1	61	5	-	-	459974
6	3	83.9	5	1926	1827	821488
7	3	85.4	5	1289	1642	1184344
8	2	69	5	1439	-	51728
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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:			10			
Chirp Center Frequency:			5494.7			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	78.4	8	1317	-	331711
2	2	80.6	8	1918	-	621843
3	3	90.8	8	1302	1888	910718
4	3	94.4	8	1857	1808	5599
5	2	81.7	8	1436	-	295867
6	2	82.7	8	1661	-	586380
7	2	68.2	8	1665	-	876716
8	1	53	8	-	-	1168144
9	3	96.3	8	1924	1505	259641
10	2	76.6	8	1713	-	550474
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Trial Number:			14			Detection (Yes/No)
Number of Bursts in Trial:			9			
Chirp Center Frequency:			5493.9			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	84.7	6	1563	1456	933417
2	1	56.6	6	-	-	1258069
3	1	60.2	6	-	-	249733
4	2	82.2	6	1649	-	571984
5	1	59.3	6	-	-	895960
6	1	52.3	6	-	-	1218747
7	3	93.2	6	1884	1285	209357
8	1	57.1	6	-	-	532751
9	1	55.2	6	-	-	855848
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DFS Radar Parameters
FCC Radar Type 5
Channel 106 Bandwidth 80MHz

Trial Number:			15			Detection (Yes/No)
Number of Bursts in Trial:			9			
Chirp Center Frequency:			5493.9			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	85.5	6	1477	1522	1175891
2	2	67.5	6	1666	-	169928
3	1	52.4	6	-	-	493188
4	1	65.5	6	-	-	816323
5	3	94.1	6	1654	1263	1136979
6	3	93.9	6	1636	1852	129991
7	2	73.5	6	1306	-	452797
8	2	71.1	6	1473	-	775494
9	1	58.3	6	-	-	1099391
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Trial Number:			16			Detection (Yes/No)
Number of Bursts in Trial:			9			
Chirp Center Frequency:			5494.3			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	65.2	7	-	-	90535
2	2	67.1	7	1423	-	413016
3	1	56.1	7	-	-	736283
4	3	93.7	7	1313	1511	1057367
5	2	71.2	7	2000	-	50673
6	1	66.5	7	-	-	373877
7	2	71.8	7	1432	-	695806
8	2	70.7	7	1651	-	1018261
9	3	88.8	7	1916	1577	10926
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DFS Radar Parameters
FCC Radar Type 5
Channel 106 Bandwidth 80MHz

Trial Number:			17			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5497.1			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	78.3	14	1454	-	199830
2	1	51.5	14	-	-	393961
3	2	82.7	14	1446	-	586846
4	2	68.3	14	1214	-	780453
5	2	75.8	14	1675	-	175971
6	3	90.6	14	1027	1561	368628
7	1	60.2	14	-	-	563522
8	1	59.1	14	-	-	757343
9	3	87.8	14	1041	1819	152007
10	2	82.1	14	1099	-	345555
11	1	54.3	14	-	-	539768
12	3	87.6	14	1501	1038	731260
13	1	51.8	14	-	-	128631
14	1	55	14	-	-	322323
15	1	53.8	14	-	-	515786
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Trial Number:			18			Detection (Yes/No)
Number of Bursts in Trial:			10			
Chirp Center Frequency:			5494.7			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	78.6	8	1832	-	1063279
2	3	100	8	1102	1724	156913
3	1	51.5	8	-	-	447969
4	2	75.9	8	1591	-	737929
5	1	65.1	8	-	-	1029515
6	3	96.8	8	1347	1397	121218
7	1	50.4	8	-	-	412089
8	1	58.2	8	-	-	702839
9	1	61.5	8	-	-	993637
10	1	59.9	8	-	-	85721
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DFS Radar Parameters
FCC Radar Type 5
Channel 106 Bandwidth 80MHz

Trial Number:			19			Detection (Yes/No)
Number of Bursts in Trial:			14			
Chirp Center Frequency:			5496.3			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	87.9	12	1867	1820	267401
2	2	79.2	12	1757	-	475341
3	2	70.4	12	1284	-	682690
4	3	91.1	12	1434	1374	35491
5	3	85.5	12	1695	1552	242271
6	3	93.8	12	1959	1233	448754
7	1	60.4	12	-	-	658416
8	3	88.6	12	1515	1906	10018
9	1	63.6	12	-	-	217567
10	1	64.8	12	-	-	425214
11	1	55.6	12	-	-	632989
12	2	72.6	12	1337	-	838721
13	2	67.2	12	1912	-	191486
14	3	91.7	12	1148	1850	398317
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Trial Number:			20			Detection (Yes/No)
Number of Bursts in Trial:			19			
Chirp Center Frequency:			5499.1			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	61.8	19	-	-	447050
2	1	55.2	19	-	-	599783
3	3	84.9	19	1338	1441	122081
4	1	56.1	19	-	-	275588
5	3	91.4	19	1381	1639	426133
6	2	66.7	19	1872	-	579676
7	2	70.7	19	1891	-	103504
8	1	63.3	19	-	-	256508
9	1	62.1	19	-	-	409506
10	1	52.2	19	-	-	561803
11	1	65	19	-	-	84928
12	2	71.3	19	1388	-	237133
13	1	64.9	19	-	-	390297
14	3	95.9	19	1825	1812	540063
15	1	55.5	19	-	-	66125
16	3	92.1	19	1963	1945	217619
17	2	77.9	19	1637	-	370613
18	3	93.4	19	1104	1377	522814
19	2	71.1	19	1363	-	47169
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DFS Radar Parameters
FCC Radar Type 5
Channel 106 Bandwidth 80MHz

Trial Number:			21			Detection (Yes/No)
Number of Bursts in Trial:			13			
Chirp Center Frequency:			5564.1			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	58.3	11	-	-	292546
2	3	87.9	11	1599	1625	514354
3	1	61.4	11	-	-	739825
4	3	89.8	11	1738	1053	41487
5	2	68	11	1063	-	264899
6	1	52.3	11	-	-	488744
7	3	88.4	11	1390	1693	710090
8	3	93.9	11	1680	1295	14049
9	3	99	11	1833	1325	236723
10	3	88.3	11	1126	1342	459970
11	3	90.2	11	1620	1073	682689
12	3	98.3	11	1183	1371	906075
13	1	56	11	-	-	209963
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Trial Number:			22			Detection (Yes/No)
Number of Bursts in Trial:			9			
Chirp Center Frequency:			5566.1			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	82.8	6	1117	-	626048
2	1	59.8	6	-	-	949616
3	1	64.1	6	-	-	1272282
4	1	59.8	6	-	-	263837
5	1	61.8	6	-	-	586964
6	3	94.4	6	1139	1125	908090
7	2	66.8	6	1737	-	1231111
8	3	94.8	6	1990	1835	223375
9	3	89.2	6	1443	1239	546088
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DFS Radar Parameters
FCC Radar Type 5
Channel 106 Bandwidth 80MHz

Trial Number:			23			Detection (Yes/No)
Number of Bursts in Trial:			8			
Chirp Center Frequency:			5566.1			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	74.5	6	1681	-	977826
2	2	67	6	1549	-	1340530
3	2	68.2	6	1416	-	207042
4	2	76	6	1201	-	570192
5	1	64.2	6	-	-	934105
6	2	78.8	6	1467	-	1296531
7	1	64.6	6	-	-	162530
8	2	83.1	6	1168	-	525678
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Trial Number:			24			Detection (Yes/No)
Number of Bursts in Trial:			20			
Chirp Center Frequency:			5560.5			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	71.5	20	1937	-	354351
2	3	87	20	1002	1044	498999
3	1	62.2	20	-	-	47068
4	1	51.4	20	-	-	192285
5	1	58.8	20	-	-	337586
6	1	53.8	20	-	-	482707
7	1	50.3	20	-	-	29175
8	1	65.5	20	-	-	174167
9	2	66.9	20	1993	-	318645
10	1	53.7	20	-	-	464494
11	1	53	20	-	-	11267
12	2	72.9	20	1292	-	156040
13	2	71.8	20	1729	-	300920
14	2	75	20	1218	-	446043
15	2	71.9	20	1928	-	590310
16	1	53.9	20	-	-	138471
17	1	59	20	-	-	283492
18	3	88.5	20	1265	1776	426393
19	1	55.1	20	-	-	574253
20	2	81.7	20	1903	-	120351

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

Trial Number:			25			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5562.9			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	14	1276	1510	353407
2	2	80.3	14	1524	-	547119
3	3	83.6	14	1728	1860	738692
4	2	76.6	14	1531	-	136849
5	2	76.3	14	1914	-	329884
6	2	69.1	14	1631	-	523236
7	1	63.4	14	-	-	717752
8	3	94.5	14	1182	1530	112940
9	2	71.5	14	1543	-	306191
10	3	92	14	1971	1358	498595
11	3	88.2	14	1676	1470	691337
12	1	59.5	14	-	-	89371
13	2	79.3	14	1251	-	282571
14	1	65.9	14	-	-	476764
15	2	66.8	14	1032	-	669757
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Trial Number:			26			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5563.3			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	53.2	13	-	-	65532
2	3	86.1	13	1419	1112	258371
3	1	54.5	13	-	-	452877
4	2	74	13	1948	-	645074
5	1	56	13	-	-	41723
6	1	63.8	13	-	-	235384
7	3	94.4	13	1120	1490	427889
8	3	94.9	13	1881	1097	620317
9	3	90.6	13	1452	1493	17797
10	1	63.8	13	-	-	211585
11	2	71.9	13	1194	-	404809
12	2	67.4	13	1556	-	597946
13	3	99.6	13	1303	1161	790253
14	3	95.2	13	1291	1109	187179
15	1	64.2	13	-	-	381353
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DFS Radar Parameters
FCC Radar Type 5
Channel 106 Bandwidth 80MHz

Trial Number:			27			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5563.3			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	13	1576	-	574088
2	2	75.7	13	1158	-	767360
3	2	73.7	13	1147	-	163563
4	2	82.9	13	1791	-	356748
5	3	87.4	13	1209	1169	549286
6	3	91.3	13	1193	1426	742656
7	1	53.4	13	-	-	140002
8	3	85.7	13	1780	1204	332180
9	2	75.1	13	1688	-	526378
10	3	89.7	13	1985	1131	717685
11	3	90.4	13	1029	1679	115667
12	1	55.9	13	-	-	309679
13	3	94	13	1784	1255	501595
14	2	74.9	13	1673	-	695586
15	1	65.5	13	-	-	92283
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Trial Number:			28			Detection (Yes/No)
Number of Bursts in Trial:			14			
Chirp Center Frequency:			5563.3			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	93.5	13	1178	1479	305572
2	3	93.6	13	1753	1159	512010
3	1	55.8	13	-	-	721738
4	1	58.2	13	-	-	73302
5	2	68.6	13	1871	-	280035
6	2	67.9	13	1132	-	487421
7	1	54.5	13	-	-	695989
8	1	64.5	13	-	-	47708
9	3	99.1	13	1340	1111	254484
10	2	67.9	13	1741	-	461709
11	1	51.3	13	-	-	670445
12	3	85.4	13	1763	1747	22076
13	3	93	13	1775	1575	228799
14	1	62.8	13	-	-	436974
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DFS Radar Parameters
FCC Radar Type 5
Channel 106 Bandwidth 80MHz

Trial Number:			29			Detection (Yes/No)
Number of Bursts in Trial:			19			
Chirp Center Frequency:			5560.9			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	54.3	19	-	-	474767
2	1	51.7	19	-	-	627665
3	1	63.9	19	-	-	150218
4	3	99.3	19	1311	1088	301871
5	1	57.3	19	-	-	455686
6	2	75	19	1373	-	607519
7	1	62.5	19	-	-	131548
8	3	85.8	19	1281	1613	282833
9	3	96.5	19	1220	1554	435335
10	2	78.6	19	1922	-	588405
11	2	75.6	19	1585	-	112367
12	3	99.8	19	1107	1465	264289
13	1	50.4	19	-	-	418435
14	2	79.4	19	1086	-	570399
15	3	84.3	19	1643	1727	93353
16	1	65.6	19	-	-	246584
17	1	57.8	19	-	-	399499
18	1	50.3	19	-	-	552271
19	2	70	19	1078	-	74936
20						

Trial Number:			30			Detection (Yes/No)
Number of Bursts in Trial:			16			
Chirp Center Frequency:			5562.5			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	15	1404	-	270273
2	2	70.3	15	1974	-	451002
3	2	78.4	15	1582	-	632365
4	1	61.6	15	-	-	66781
5	3	91.3	15	1615	1919	247235
6	2	76.5	15	1378	-	428791
7	3	96.4	15	1589	1019	609163
8	1	62.4	15	-	-	44384
9	1	61.1	15	-	-	225852
10	2	74.7	15	1007	-	406852
11	1	64.9	15	-	-	589122
12	3	86.1	15	1176	1544	21949
13	1	55.8	15	-	-	203470
14	1	60.4	15	-	-	385020
15	2	72.8	15	1138	-	566118
16	2	70.7	15	1462	-	746956
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DFS Radar Parameters
FCC Radar Type 1
Channel 114 Bandwidth 160MHz

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	8	1519.76	658	Yes
3	12	1355.01	738	Yes
4	20	1113.59	898	Yes
5	17	1193.32	838	Yes
6	1	1930.50	518	Yes
7	3	1792.11	558	Yes
8	11	1392.76	718	No
9	7	1567.40	638	Yes
10	16	1222.49	818	Yes
11	9	1474.93	678	Yes
12	5	1672.24	598	Yes
13	10	1432.66	698	Yes
14	13	1319.26	758	Yes
15	14	1285.35	778	Yes
16		973.71	1027	Yes
17		650.20	1538	Yes
18		340.14	2940	Yes
19		1379.31	725	Yes
20		569.80	1755	Yes
21		544.96	1835	Yes
22		347.58	2877	Yes
23		755.29	1324	Yes
24		1254.71	797	Yes
25		441.31	2266	Yes
26		729.93	1370	Yes
27		1572.33	636	Yes
28		813.01	1230	Yes
29		630.52	1586	Yes
30		364.83	2741	Yes

DFS Radar Parameters
FCC Radar Type 2
Channel 114 Bandwidth 160MHz

Trial #	Number Pulses per Burst	Pulse Width (Microseconds)	Pulse Repetition Interval (Microseconds)	Detection (Yes / No)
1	24	2.00	150	Yes
2	23	1.40	166	Yes
3	23	1.10	199	Yes
4	25	2.50	168	Yes
5	28	4.40	225	Yes
6	26	2.90	223	Yes
7	24	1.70	190	No
8	25	2.60	196	Yes
9	26	3.20	205	No
10	28	4.30	218	Yes
11	23	1.30	215	Yes
12	25	2.40	217	Yes
13	27	3.40	181	Yes
14	23	1.40	204	Yes
15	27	3.90	229	Yes
16	29	4.60	161	Yes
17	27	3.90	159	Yes
18	27	3.50	193	Yes
19	27	3.70	182	Yes
20	23	1.30	209	Yes
21	26	2.90	198	Yes
22	23	1.50	172	Yes
23	27	3.70	163	Yes
24	29	4.50	167	Yes
25	23	1.30	158	Yes
26	25	2.30	151	Yes
27	23	1.30	174	Yes
28	23	1.00	206	No
29	27	3.80	162	Yes
30	26	3.20	202	Yes

DFS Radar Parameters
FCC Radar Type 3
Channel 114 Bandwidth 160MHz

Trial #	Number Pulses per Burst	Pulse Width (Microseconds)	Pulse Repetition Interval (Microseconds)	Detection (Yes / No)
1	16	7.00	259	Yes
2	16	6.40	273	No
3	16	6.10	361	No
4	17	7.50	374	Yes
5	18	9.40	205	Yes
6	17	7.90	393	Yes
7	16	6.70	260	Yes
8	17	7.60	470	Yes
9	17	8.20	315	No
10	18	9.30	483	No
11	16	6.30	379	Yes
12	17	7.40	351	Yes
13	17	8.40	325	Yes
14	16	6.40	328	Yes
15	18	8.90	220	Yes
16	18	9.60	219	Yes
17	18	8.90	403	Yes
18	17	8.50	248	No
19	18	8.70	444	Yes
20	16	6.30	223	No
21	17	7.90	214	Yes
22	16	6.50	364	No
23	18	8.70	213	Yes
24	18	9.50	334	Yes
25	16	6.30	317	No
26	16	7.30	349	Yes
27	16	6.30	474	Yes
28	16	6.00	450	Yes
29	18	8.80	406	Yes
30	17	8.20	438	Yes

DFS Radar Parameters
FCC Radar Type 4
Channel 114 Bandwidth 160MHz

Trial #	Number Pulses per Burst	Pulse Width (Microseconds)	Pulse Repetition Interval (Microseconds)	Detection (Yes / No)
1	13	13.40	259	No
2	12	11.90	273	No
3	12	11.20	361	Yes
4	13	14.30	374	No
5	16	18.50	205	Yes
6	14	15.40	393	No
7	12	12.70	260	Yes
8	13	14.50	470	Yes
9	14	15.90	315	No
10	16	18.30	483	Yes
11	12	11.80	379	No
12	13	14.10	351	Yes
13	14	16.30	325	Yes
14	12	11.90	328	Yes
15	15	17.40	220	Yes
16	16	19.00	219	Yes
17	15	17.40	403	No
18	15	16.70	248	Yes
19	15	17.10	444	Yes
20	12	11.70	223	No
21	14	15.30	214	No
22	12	12.20	364	Yes
23	15	17.10	213	Yes
24	16	18.90	334	No
25	12	11.80	317	Yes
26	13	13.90	349	Yes
27	12	11.70	474	Yes
28	12	11.00	450	No
29	15	17.30	406	Yes
30	14	16.00	438	Yes

DFS Radar Parameters
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Trial Number:			1			Detection (Yes/No)
Number of Bursts in Trial:			18			
Chirp Center Frequency:			5570			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	90.2	17	1628	1282	30949
2	2	76.7	17	1915	-	191953
3	2	79.3	17	1481	-	353175
4	2	67.6	17	1106	-	514285
5	3	90.5	17	1555	1499	11166
6	2	83	17	1814	-	172069
7	3	91.4	17	1197	1698	332641
8	1	66.3	17	-	-	495255
9	1	60.1	17	-	-	656773
10	3	90.6	17	1944	1061	151906
11	1	62.2	17	-	-	313935
12	1	51.5	17	-	-	475144
13	1	60.1	17	-	-	636881
14	1	55.2	17	-	-	132871
15	1	54	17	-	-	294082
16	1	56.6	17	-	-	455175
17	2	80.8	17	1213	-	615310
18	1	60.6	17	-	-	112895
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Trial Number:			2			Detection (Yes/No)
Number of Bursts in Trial:			14			
Chirp Center Frequency:			5570			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	73.6	13	1393	-	352249
2	3	94.8	13	1647	1237	558310
3	2	70.6	13	1100	-	766637
4	1	55.2	13	-	-	119747
5	1	53.8	13	-	-	327175
6	3	98.7	13	1266	1652	532961
7	2	78.3	13	1108	-	741187
8	2	77.4	13	1012	-	94026
9	2	77.4	13	1287	-	301303
10	2	75.7	13	1047	-	508734
11	3	93.9	13	1000	1798	714054
12	2	81.3	13	1896	-	68432
13	3	89	13	1657	1873	274905
14	3	95.5	13	1491	1719	481673
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DFS Radar Parameters
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Trial Number:			3			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5570			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	65.3	14	-	-	645337
2	2	81.9	14	1395	-	40093
3	1	64.3	14	-	-	233848
4	3	91.6	14	1298	1463	425910
5	1	62.5	14	-	-	620865
6	1	53.4	14	-	-	16306
7	1	63.9	14	-	-	209869
8	2	73.4	14	1931	-	402566
9	3	99.9	14	1998	1899	594246
10	2	80.5	14	1418	-	789156
11	3	84.2	14	1621	1901	185261
12	2	82.5	14	1973	-	378657
13	2	72.4	14	1080	-	572917
14	3	96.3	14	1286	1445	764375
15	2	79.7	14	1782	-	161921
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Trial Number:			4			Detection (Yes/No)
Number of Bursts in Trial:			12			
Chirp Center Frequency:			5570			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	10	1777	1935	443314
2	3	93	10	1789	1229	685100
3	1	50	10	-	-	929041
4	3	85.2	10	1242	1761	172524
5	3	84.9	10	1709	1408	413953
6	2	69	10	1869	-	656484
7	1	52.4	10	-	-	899199
8	2	76.2	10	1806	-	142915
9	3	85	10	1750	1520	384322
10	2	72.8	10	1845	-	626480
11	2	80.7	10	1892	-	868114
12	3	89.4	10	1840	1704	113008
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Trial Number:			5			Detection (Yes/No)
Number of Bursts in Trial:			18			
Chirp Center Frequency:			5570			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	63.1	17	-	-	236902
2	1	55.6	17	-	-	398446
3	1	65.6	17	-	-	559882
4	2	72.4	17	1154	-	55538
5	2	78.9	17	1427	-	216374
6	1	51.6	17	-	-	378543
7	2	66.8	17	1795	-	538059
8	3	86.3	17	1379	1140	35692
9	2	78.2	17	1152	-	196645
10	3	91	17	1208	1482	357257
11	1	62.4	17	-	-	519635
12	3	94.1	17	1262	1569	15860
13	2	77.4	17	1382	-	176970
14	3	96.7	17	1150	1058	337528
15	1	50.1	17	-	-	499810
16	3	94.9	17	1793	1837	658110
17	3	90.1	17	1057	1968	156576
18	2	71	17	1726	-	318036
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Trial Number:			6			Detection (Yes/No)
Number of Bursts in Trial:			16			
Chirp Center Frequency:			5570			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	71.3	15	1616	-	538679
2	2	76.2	15	1958	-	719811
3	2	82	15	1316	-	154397
4	3	97.8	15	1243	1663	335096
5	3	87.9	15	1697	1731	515604
6	2	82.8	15	1805	-	697673
7	3	93.9	15	1602	1071	131924
8	3	96.2	15	1841	1558	312624
9	1	54	15	-	-	495166
10	2	76.5	15	1682	-	675442
11	1	62.8	15	-	-	110068
12	1	55.6	15	-	-	291531
13	2	79.3	15	1225	-	472627
14	2	68.7	15	1640	-	652935
15	2	81.9	15	1564	-	87531
16	1	64	15	-	-	269174
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Trial Number:			7			Detection (Yes/No)
Number of Bursts in Trial:			18			
Chirp Center Frequency:			5570			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	50.8	18	-	-	400670
2	2	67.8	18	1844	-	560495
3	3	84.2	18	1344	1534	57763
4	1	58.1	18	-	-	219382
5	1	55.3	18	-	-	380533
6	2	80.9	18	1655	-	540589
7	1	55.6	18	-	-	38126
8	1	60	18	-	-	199618
9	1	51.4	18	-	-	360941
10	3	98.6	18	1400	1797	519482
11	2	80.5	18	1318	-	18255
12	1	55.9	18	-	-	179555
13	1	57.8	18	-	-	341104
14	3	88.2	18	1081	1742	499804
15	2	68.8	18	1031	-	662993
16	1	57.6	18	-	-	159853
17	3	86.2	18	1920	1307	319359
18	1	63.9	18	-	-	482304
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Trial Number:			8			Detection (Yes/No)
Number of Bursts in Trial:			12			
Chirp Center Frequency:			5570			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	10	-	-	966656
2	1	54.4	10	-	-	210029
3	1	57.4	10	-	-	452127
4	1	65.3	10	-	-	694074
5	2	67.7	10	1052	-	935402
6	2	82.9	10	1767	-	179741
7	2	78.6	10	1082	-	421984
8	2	82.7	10	1096	-	663731
9	3	97.6	10	1942	1939	902850
10	3	90.3	10	1980	1813	149723
11	2	73.5	10	1839	-	391543
12	2	72.6	10	1241	-	633669
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DFS Radar Parameters
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Trial Number:			9			Detection (Yes/No)
Number of Bursts in Trial:			10			
Chirp Center Frequency:			5570			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	61.6	8	-	-	1052574
2	3	93.8	8	1235	1559	144273
3	1	62.2	8	-	-	435147
4	1	63.3	8	-	-	725709
5	3	95.8	8	1876	1240	1013788
6	2	82.3	8	1913	-	108644
7	1	60.6	8	-	-	399488
8	2	81.9	8	1234	-	689234
9	1	65.7	8	-	-	980860
10	3	90.5	8	1560	1398	72792
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Trial Number:			10			Detection (Yes/No)
Number of Bursts in Trial:			18			
Chirp Center Frequency:			5570			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	70.6	17	1950	-	201117
2	2	72	17	1617	-	362410
3	3	96.4	17	1327	1821	521844
4	3	89.4	17	1947	1310	20548
5	1	52.2	17	-	-	182086
6	3	87.9	17	1025	1573	342138
7	3	88.4	17	1346	1089	502646
8	1	65.9	17	-	-	764
9	1	57.6	17	-	-	162205
10	1	55.2	17	-	-	323467
11	2	69.5	17	1811	-	483529
12	1	65.3	17	-	-	646184
13	2	67.2	17	1769	-	141874
14	2	77.5	17	1083	-	303222
15	1	56.6	17	-	-	464625
16	3	85.6	17	1351	1969	622910
17	1	50.1	17	-	-	122337
18	1	51.3	17	-	-	283542
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DFS Radar Parameters
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Trial Number:			11			Detection (Yes/No)
Number of Bursts in Trial:			11			
Chirp Center Frequency:			5495.2			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	79.5	8	1938	-	727831
2	2	72.6	8	1252	-	991717
3	2	83.3	8	1822	-	167557
4	1	65.3	8	-	-	432154
5	3	86.5	8	1224	1478	694633
6	2	78.9	8	1013	-	959631
7	3	86.9	8	1269	1006	135016
8	3	86.8	8	1127	1997	398468
9	3	93.8	8	1735	1590	661769
10	3	94.5	8	1787	1385	925174
11	3	92.4	8	1749	1910	102422
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Trial Number:			12			Detection (Yes/No)
Number of Bursts in Trial:			8			
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	86.6	5	1648	1494	503759
2	3	97	5	1508	1887	866256
3	1	54.2	5	-	-	1231598
4	3	98.2	5	1566	1743	96373
5	1	61	5	-	-	459974
6	3	83.9	5	1926	1827	821488
7	3	85.4	5	1289	1642	1184344
8	2	69	5	1439	-	51728
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Trial Number:			13			Detection (Yes/No)
Number of Bursts in Trial:			10			
Chirp Center Frequency:			5495.2			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	78.4	8	1317	-	331711
2	2	80.6	8	1918	-	621843
3	3	90.8	8	1302	1888	910718
4	3	94.4	8	1857	1808	5599
5	2	81.7	8	1436	-	295867
6	2	82.7	8	1661	-	586380
7	2	68.2	8	1665	-	876716
8	1	53	8	-	-	1168144
9	3	96.3	8	1924	1505	259641
10	2	76.6	8	1713	-	550474
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Trial Number:			14			Detection (Yes/No)
Number of Bursts in Trial:			9			
Chirp Center Frequency:			5494.4			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	84.7	6	1563	1456	933417
2	1	56.6	6	-	-	1258069
3	1	60.2	6	-	-	249733
4	2	82.2	6	1649	-	571984
5	1	59.3	6	-	-	895960
6	1	52.3	6	-	-	1218747
7	3	93.2	6	1884	1285	209357
8	1	57.1	6	-	-	532751
9	1	55.2	6	-	-	855848
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Trial Number:			15			Detection (Yes/No)
Number of Bursts in Trial:			9			
Chirp Center Frequency:			5494.4			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	85.5	6	1477	1522	1175891
2	2	67.5	6	1666	-	169928
3	1	52.4	6	-	-	493188
4	1	65.5	6	-	-	816323
5	3	94.1	6	1654	1263	1136979
6	3	93.9	6	1636	1852	129991
7	2	73.5	6	1306	-	452797
8	2	71.1	6	1473	-	775494
9	1	58.3	6	-	-	1099391
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Trial Number:			16			Detection (Yes/No)
Number of Bursts in Trial:			9			
Chirp Center Frequency:			5494.8			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	65.2	7	-	-	90535
2	2	67.1	7	1423	-	413016
3	1	56.1	7	-	-	736283
4	3	93.7	7	1313	1511	1057367
5	2	71.2	7	2000	-	50673
6	1	66.5	7	-	-	373877
7	2	71.8	7	1432	-	695806
8	2	70.7	7	1651	-	1018261
9	3	88.8	7	1916	1577	10926
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Trial Number:			17			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5497.6			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	78.3	14	1454	-	199830
2	1	51.5	14	-	-	393961
3	2	82.7	14	1446	-	586846
4	2	68.3	14	1214	-	780453
5	2	75.8	14	1675	-	175971
6	3	90.6	14	1027	1561	368628
7	1	60.2	14	-	-	563522
8	1	59.1	14	-	-	757343
9	3	87.8	14	1041	1819	152007
10	2	82.1	14	1099	-	345555
11	1	54.3	14	-	-	539768
12	3	87.6	14	1501	1038	731260
13	1	51.8	14	-	-	128631
14	1	55	14	-	-	322323
15	1	53.8	14	-	-	515786
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Trial Number:			18			Detection (Yes/No)
Number of Bursts in Trial:			10			
Chirp Center Frequency:			5495.2			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	78.6	8	1832	-	1063279
2	3	100	8	1102	1724	156913
3	1	51.5	8	-	-	447969
4	2	75.9	8	1591	-	737929
5	1	65.1	8	-	-	1029515
6	3	96.8	8	1347	1397	121218
7	1	50.4	8	-	-	412089
8	1	58.2	8	-	-	702839
9	1	61.5	8	-	-	993637
10	1	59.9	8	-	-	85721
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Trial Number:			19			Detection (Yes/No)
Number of Bursts in Trial:			14			
Chirp Center Frequency:			5496.8			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	87.9	12	1867	1820	267401
2	2	79.2	12	1757	-	475341
3	2	70.4	12	1284	-	682690
4	3	91.1	12	1434	1374	35491
5	3	85.5	12	1695	1552	242271
6	3	93.8	12	1959	1233	448754
7	1	60.4	12	-	-	658416
8	3	88.6	12	1515	1906	10018
9	1	63.6	12	-	-	217567
10	1	64.8	12	-	-	425214
11	1	55.6	12	-	-	632989
12	2	72.6	12	1337	-	838721
13	2	67.2	12	1912	-	191486
14	3	91.7	12	1148	1850	398317
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Trial Number:			20			Detection (Yes/No)
Number of Bursts in Trial:			19			
Chirp Center Frequency:			5499.6			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	61.8	19	-	-	447050
2	1	55.2	19	-	-	599783
3	3	84.9	19	1338	1441	122081
4	1	56.1	19	-	-	275588
5	3	91.4	19	1381	1639	426133
6	2	66.7	19	1872	-	579676
7	2	70.7	19	1891	-	103504
8	1	63.3	19	-	-	256508
9	1	62.1	19	-	-	409506
10	1	52.2	19	-	-	561803
11	1	65	19	-	-	84928
12	2	71.3	19	1388	-	237133
13	1	64.9	19	-	-	390297
14	3	95.9	19	1825	1812	540063
15	1	55.5	19	-	-	66125
16	3	92.1	19	1963	1945	217619
17	2	77.9	19	1637	-	370613
18	3	93.4	19	1104	1377	522814
19	2	71.1	19	1363	-	47169
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Trial Number:			21			Detection (Yes/No)
Number of Bursts in Trial:			13			
Chirp Center Frequency:			5643.6			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	58.3	11	-	-	292546
2	3	87.9	11	1599	1625	514354
3	1	61.4	11	-	-	739825
4	3	89.8	11	1738	1053	41487
5	2	68	11	1063	-	264899
6	1	52.3	11	-	-	488744
7	3	88.4	11	1390	1693	710090
8	3	93.9	11	1680	1295	14049
9	3	99	11	1833	1325	236723
10	3	88.3	11	1126	1342	459970
11	3	90.2	11	1620	1073	682689
12	3	98.3	11	1183	1371	906075
13	1	56	11	-	-	209963
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Trial Number:			22			Detection (Yes/No)
Number of Bursts in Trial:			9			
Chirp Center Frequency:			5645.6			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	82.8	6	1117	-	626048
2	1	59.8	6	-	-	949616
3	1	64.1	6	-	-	1272282
4	1	59.8	6	-	-	263837
5	1	61.8	6	-	-	586964
6	3	94.4	6	1139	1125	908090
7	2	66.8	6	1737	-	1231111
8	3	94.8	6	1990	1835	223375
9	3	89.2	6	1443	1239	546088
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Trial Number:			23			Detection (Yes/No)
Number of Bursts in Trial:			8			
Chirp Center Frequency:			5645.6			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	74.5	6	1681	-	977826
2	2	67	6	1549	-	1340530
3	2	68.2	6	1416	-	207042
4	2	76	6	1201	-	570192
5	1	64.2	6	-	-	934105
6	2	78.8	6	1467	-	1296531
7	1	64.6	6	-	-	162530
8	2	83.1	6	1168	-	525678
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Trial Number:			24			Detection (Yes/No)
Number of Bursts in Trial:			20			
Chirp Center Frequency:			5640			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	71.5	20	1937	-	354351
2	3	87	20	1002	1044	498999
3	1	62.2	20	-	-	47068
4	1	51.4	20	-	-	192285
5	1	58.8	20	-	-	337586
6	1	53.8	20	-	-	482707
7	1	50.3	20	-	-	29175
8	1	65.5	20	-	-	174167
9	2	66.9	20	1993	-	318645
10	1	53.7	20	-	-	464494
11	1	53	20	-	-	11267
12	2	72.9	20	1292	-	156040
13	2	71.8	20	1729	-	300920
14	2	75	20	1218	-	446043
15	2	71.9	20	1928	-	590310
16	1	53.9	20	-	-	138471
17	1	59	20	-	-	283492
18	3	88.5	20	1265	1776	426393
19	1	55.1	20	-	-	574253
20	2	81.7	20	1903	-	120351

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Trial Number:			25			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5642.4			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	14	1276	1510	353407
2	2	80.3	14	1524	-	547119
3	3	83.6	14	1728	1860	738692
4	2	76.6	14	1531	-	136849
5	2	76.3	14	1914	-	329884
6	2	69.1	14	1631	-	523236
7	1	63.4	14	-	-	717752
8	3	94.5	14	1182	1530	112940
9	2	71.5	14	1543	-	306191
10	3	92	14	1971	1358	498595
11	3	88.2	14	1676	1470	691337
12	1	59.5	14	-	-	89371
13	2	79.3	14	1251	-	282571
14	1	65.9	14	-	-	476764
15	2	66.8	14	1032	-	669757
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Trial Number:			26			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5642.8			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	53.2	13	-	-	65532
2	3	86.1	13	1419	1112	258371
3	1	54.5	13	-	-	452877
4	2	74	13	1948	-	645074
5	1	56	13	-	-	41723
6	1	63.8	13	-	-	235384
7	3	94.4	13	1120	1490	427889
8	3	94.9	13	1881	1097	620317
9	3	90.6	13	1452	1493	17797
10	1	63.8	13	-	-	211585
11	2	71.9	13	1194	-	404809
12	2	67.4	13	1556	-	597946
13	3	99.6	13	1303	1161	790253
14	3	95.2	13	1291	1109	187179
15	1	64.2	13	-	-	381353
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Trial Number:			27			Detection (Yes/No)
Number of Bursts in Trial:			15			
Chirp Center Frequency:			5642.8			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	13	1576	-	574088
2	2	75.7	13	1158	-	767360
3	2	73.7	13	1147	-	163563
4	2	82.9	13	1791	-	356748
5	3	87.4	13	1209	1169	549286
6	3	91.3	13	1193	1426	742656
7	1	53.4	13	-	-	140002
8	3	85.7	13	1780	1204	332180
9	2	75.1	13	1688	-	526378
10	3	89.7	13	1985	1131	717685
11	3	90.4	13	1029	1679	115667
12	1	55.9	13	-	-	309679
13	3	94	13	1784	1255	501595
14	2	74.9	13	1673	-	695586
15	1	65.5	13	-	-	92283
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Trial Number:			28			Detection (Yes/No)
Number of Bursts in Trial:			14			
Chirp Center Frequency:			5642.8			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	93.5	13	1178	1479	305572
2	3	93.6	13	1753	1159	512010
3	1	55.8	13	-	-	721738
4	1	58.2	13	-	-	73302
5	2	68.6	13	1871	-	280035
6	2	67.9	13	1132	-	487421
7	1	54.5	13	-	-	695989
8	1	64.5	13	-	-	47708
9	3	99.1	13	1340	1111	254484
10	2	67.9	13	1741	-	461709
11	1	51.3	13	-	-	670445
12	3	85.4	13	1763	1747	22076
13	3	93	13	1775	1575	228799
14	1	62.8	13	-	-	436974
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DFS Radar Parameters
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Trial Number:			29			Detection (Yes/No)
Number of Bursts in Trial:			19			
Chirp Center Frequency:			5640.4			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	54.3	19	-	-	474767
2	1	51.7	19	-	-	627665
3	1	63.9	19	-	-	150218
4	3	99.3	19	1311	1088	301871
5	1	57.3	19	-	-	455686
6	2	75	19	1373	-	607519
7	1	62.5	19	-	-	131548
8	3	85.8	19	1281	1613	282833
9	3	96.5	19	1220	1554	435335
10	2	78.6	19	1922	-	588405
11	2	75.6	19	1585	-	112367
12	3	99.8	19	1107	1465	264289
13	1	50.4	19	-	-	418435
14	2	79.4	19	1086	-	570399
15	3	84.3	19	1643	1727	93353
16	1	65.6	19	-	-	246584
17	1	57.8	19	-	-	399499
18	1	50.3	19	-	-	552271
19	2	70	19	1078	-	74936
20						

Trial Number:			30			Detection (Yes/No)
Number of Bursts in Trial:			16			
Chirp Center Frequency:			5642			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	15	1404	-	270273
2	2	70.3	15	1974	-	451002
3	2	78.4	15	1582	-	632365
4	1	61.6	15	-	-	66781
5	3	91.3	15	1615	1919	247235
6	2	76.5	15	1378	-	428791
7	3	96.4	15	1589	1019	609163
8	1	62.4	15	-	-	44384
9	1	61.1	15	-	-	225852
10	2	74.7	15	1007	-	406852
11	1	64.9	15	-	-	589122
12	3	86.1	15	1176	1544	21949
13	1	55.8	15	-	-	203470
14	1	60.4	15	-	-	385020
15	2	72.8	15	1138	-	566118
16	2	70.7	15	1462	-	746956
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