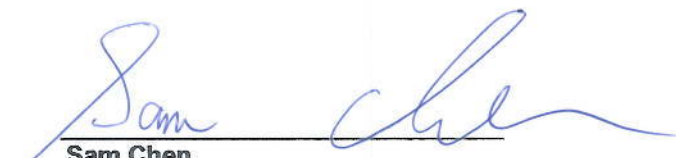




# FCC DFS Test Report

**Equipment** : WiFi Gateway  
**Brand Name** : Pace  
**Model No.** : AW505  
**FCC ID** : ZMYHGW-500BA-Q5  
**Standard** : 47 CFR FCC Part 15.407  
**Frequency Range** : 5250 MHz – 5350 MHz  
5470 MHz – 5725 MHz  
**Applicant** : MitraStar Technology Corporation  
No. 6, Innovation Rd II, Science-Based Industrial,  
Hsin-Chu, Taiwan  
**Manufacturer (1)** : MitraStar Technology Corporation  
No. 6, Innovation Rd II, Hsinchu Science Park, Hsinchu  
30076, Taiwan  
**Manufacturer (2)** : WuXi MitraStar Technology Co. Ltd  
60#-E, Minshan Road, Wuxi New district Jangsu, P.R.C.  
**Submission Type** : Class II Change  
**Operate Mode** : Master

The product sample received on Apr. 20, 2015 and completely tested on Jun. 17, 2015. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in FCC 06-96 Appendix & FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v01r02 and shown compliance with the applicable technical standards. The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

  
Sam Chen  
SPORTON INTERNATIONAL INC.



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## Summary of Test Result

| Conformance Test Specifications (FCC 06-96 Appendix) |                  |                                                                          |                                         |          |
|------------------------------------------------------|------------------|--------------------------------------------------------------------------|-----------------------------------------|----------|
| Report Clause                                        | Ref. Std. Clause | Description                                                              | Limit                                   | Result   |
| 3.3                                                  | 7.8.1            | DFS: UNII Detection Bandwidth Measurement                                | 100% of the 99% BW                      | Complied |
| 3.4                                                  | 7.8.2.1          | DFS: Initial Channel Availability Check Time                             | CAC $\geq$ 60 sec                       | Complied |
| 3.4                                                  | 7.8.2.2          | DFS: Radar Burst at the Beginning of the Channel Availability Check Time | Detection Threshold: -63 dBm            | Complied |
| 3.4                                                  | 7.8.2.3          | DFS: Radar Burst at the End of the Channel Availability Check Time       | Detection Threshold: -63 dBm            | Complied |
| 3.5                                                  | 7.8.3            | DFS: In-Service Monitoring for Channel Move Time (CMT)                   | CMT $\leq$ 10sec                        | Complied |
| 3.5                                                  | 7.8.3            | DFS: In-Service Monitoring for Channel Closing Transmission Time (CCTT)  | CCTT $\leq$ 60 ms starting at CMT 200ms | Complied |
| 3.5                                                  | 7.8.3            | DFS: In-Service Monitoring for Non-Occupancy Period (NOP)                | NOP $\geq$ 30 min                       | Complied |
| 3.6                                                  | 7.8.4            | DFS: Statistical Performance Check                                       | Table 5 - 7 (KDB 905462)                | Complied |
| 3.1.4                                                | 5.8.1            | DFS: Uniform Spreading                                                   | Uniform Spreading for DFS Band          | Complied |
| 3.1.5                                                | 8.1              | User Access Restrictions                                                 | DFS controls                            | Complied |



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FCC ID : ZMYHGW-500BA-Q5

# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

| Specification Items         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                               |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Product Type                | WLAN (4TX, 4RX)                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                               |
| Radio Type                  | Intentional Transceiver                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                               |
| Power Type                  | From power adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                               |
| Modulation                  | see the below table for 802.11n/ac<br>OFDM (BPSK / QPSK / 16QAM / 64QAM) for IEEE 802.11a                                                                                                                                                                                                                                                                                                                                                                                    |                                               |
| Data Rate (Mbps)            | see the below table for 802.11n/ac                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                               |
| Channel Bandwidth           | 40/80 MHz operating channel bandwidth                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |
| Operating Mode              | <input checked="" type="checkbox"/> Master                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                               |
|                             | <input type="checkbox"/> Slave with radar detection                                                                                                                                                                                                                                                                                                                                                                                                                          |                                               |
|                             | <input type="checkbox"/> Slave without radar detection                                                                                                                                                                                                                                                                                                                                                                                                                       |                                               |
| Communication Mode          | <input checked="" type="checkbox"/> IP Based (Load Based)                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/> Frame Based          |
| TPC Function                | <input checked="" type="checkbox"/> With TPC                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> Without TPC          |
| Weather Band (5600~5650MHz) | <input checked="" type="checkbox"/> With 5600~5650MHz                                                                                                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> Without 5600~5650MHz |
| Max. Con. Power (DFS band)  | For Non-Beamforming Mode<br>Band 2:<br>IEEE 802.11ac MCS0/Nss1 (VHT40): 23.79 dBm<br>IEEE 802.11ac MCS0/Nss1 (VHT80): 23.76 dBm<br>Band 3:<br>IEEE 802.11ac MCS0/Nss1 (VHT40): 23.83 dBm<br>IEEE 802.11ac MCS0/Nss1 (VHT80): 23.48 dBm<br>For Beamforming Mode<br>Band 2:<br>IEEE 802.11ac MCS0/Nss2 (VHT40): 23.81 dBm<br>IEEE 802.11ac MCS0/Nss2 (VHT80): 23.64 dBm<br>Band 3:<br>IEEE 802.11ac MCS0/Nss2 (VHT40): 23.89 dBm<br>IEEE 802.11ac MCS0/Nss2 (VHT80): 23.64 dBm |                                               |

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Min. Con. Power (DFS band)</b> | <p>For Non-Beamforming Mode</p> <p>Band 2:</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 17.79 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 17.76 dBm</p> <p>Band 3:</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 17.83 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 17.48 dBm</p> <p>For Beamforming Mode</p> <p>Band 2:</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT40): 17.81 dBm</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT80): 17.64 dBm</p> <p>Band 3:</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT40): 17.89 dBm</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT80): 17.64 dBm</p> |
| <b>Max. EIRP Power (DFS band)</b> | <p>For Non-Beamforming Mode</p> <p>Band 2:</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 27.26 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 27.02 dBm</p> <p>Band 3:</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 27.24 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 27.22 dBm</p> <p>For Beamforming Mode</p> <p>Band 2:</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 26.85 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 26.90 dBm</p> <p>Band 3:</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 27.50 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 26.95 dBm</p> |

|                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Min. EIRP Power (DFS band)</b>                                                                                           | <p>For Non-Beamforming Mode</p> <p>Band 2:</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 21.26 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 21.02 dBm</p> <p>Band 3:</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 21.24 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 21.22 dBm</p> <p>For Beamforming Mode</p> <p>Band 2:</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 20.85 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 20.90 dBm</p> <p>Band 3:</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 21.50 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 20.95 dBm</p> |
| <b>Power-on cycle</b>                                                                                                       | 80MHz: Requires 39.200 seconds to complete its power-on cycle.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Software / Firmware Version</b>                                                                                          | 1.00(WQC.0)b3 DFS_0623                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Note:</b> EUT employ a TPC mechanism and TPC have the capability to operate at least 6 dB below highest RF output power. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

**Antenna & Band width**

| Antenna         | Four (TX) |        |
|-----------------|-----------|--------|
| Band width Mode | 40 MHz    | 80 MHz |
| IEEE 802.11n    | V         | X      |
| IEEE 802.11ac   | V         | V      |

**IEEE 11n/ac Spec.**

| Protocol                                                                                                                                                                                                                                                                                                                                                                                                                       | Number of Transmit Chains (NTX) | Data Rate / MCS |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------|
| For Non-Beamforming Mode                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |                 |
| 802.11n (HT40)                                                                                                                                                                                                                                                                                                                                                                                                                 | 4                               | MCS0-31         |
| 802.11ac (VHT40)                                                                                                                                                                                                                                                                                                                                                                                                               | 4                               | MCS 0-9/Nss1-4  |
| 802.11ac (VHT80)                                                                                                                                                                                                                                                                                                                                                                                                               | 4                               | MCS 0-9/Nss1-4  |
| For Beamforming Mode                                                                                                                                                                                                                                                                                                                                                                                                           |                                 |                 |
| 802.11ac (VHT40)                                                                                                                                                                                                                                                                                                                                                                                                               | 4                               | MCS 0-9/Nss2-4  |
| 802.11ac (VHT80)                                                                                                                                                                                                                                                                                                                                                                                                               | 4                               | MCS 0-9/Nss2-4  |
| Note 1: IEEE Std. 802.11n modulation consists of HT20 and HT40 (HT: High Throughput).<br>Then EUT support HT20 and HT40.<br>Note 2: IEEE Std. 802.11ac modulation consists of VHT20, VHT40, VHT80 and VHT160 (VHT: Very High Throughput). Then EUT support VHT20, VHT40 and VHT80.<br>Note 3: Modulation modes consist of below configuration:<br>11a: IEEE 802.11a, HT20/HT40: IEEE 802.11n, VHT20/VHT40/VHT80: IEEE 802.11ac |                                 |                 |

**1.1.2 Antenna Information**

| Ant. | Brand | Model Name | Antenna Type    | Connector |
|------|-------|------------|-----------------|-----------|
| 1    | -     | -          | Printed Antenna | N/A       |
| 2    | -     | -          | Printed Antenna | N/A       |
| 3    | -     | -          | Printed Antenna | N/A       |
| 4    | -     | -          | Printed Antenna | N/A       |

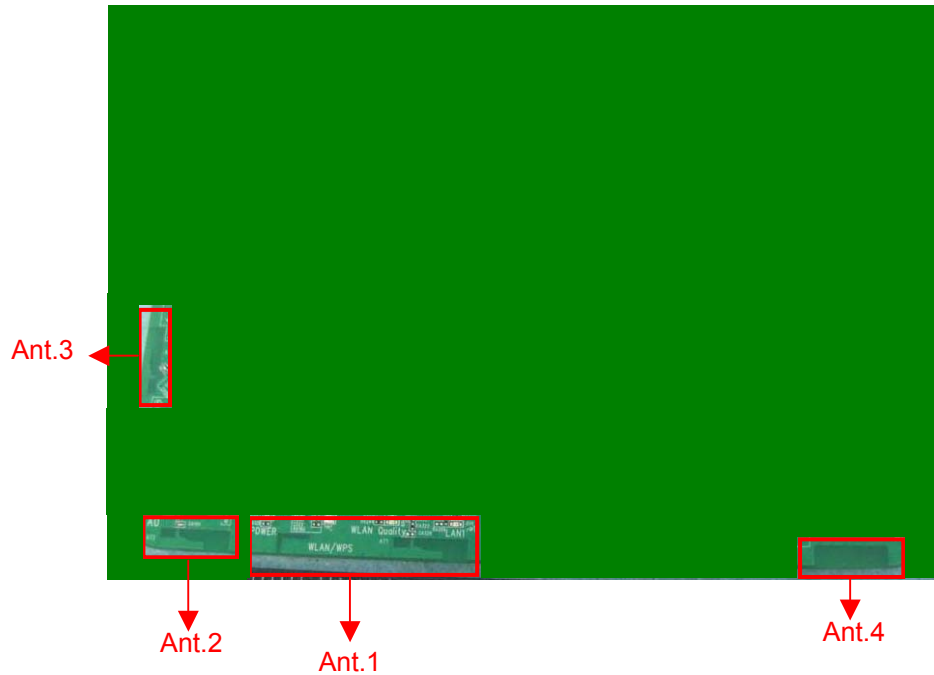
| 5GHz Antenna Gain (dBi) |        |        |        |        |
|-------------------------|--------|--------|--------|--------|
| Frequency               | Ant. 1 | Ant. 2 | Ant. 3 | Ant. 4 |
| 5180 MHz                | 2.84   | 3.94   | 2.78   | 2.16   |
| 5190 MHz                | 3.07   | 4.09   | 2.82   | 2.27   |
| 5200 MHz                | 2.67   | 4.07   | 2.73   | 2.4    |
| 5210 MHz                | 3.01   | 4.00   | 2.68   | 2.47   |
| 5230 MHz                | 3.03   | 4.02   | 2.81   | 2.87   |
| 5240 MHz                | 3.16   | 3.79   | 2.81   | 2.9    |
| 5260 MHz                | 3.23   | 3.67   | 3.00   | 3.08   |
| 5270 MHz                | 3.03   | 3.47   | 3.05   | 2.72   |
| 5290 MHz                | 3.12   | 3.26   | 2.94   | 2.83   |
| 5300 MHz                | 3.06   | 3.09   | 3.06   | 2.83   |
| 5310 MHz                | 2.97   | 2.99   | 3.04   | 2.90   |
| 5320 MHz                | 3.17   | 2.99   | 3.19   | 2.82   |
| 5500 MHz                | 2.46   | 3.47   | 2.94   | 3.14   |
| 5510 MHz                | 2.28   | 3.65   | 2.79   | 3.18   |
| 5530 MHz                | 2.48   | 3.74   | 2.90   | 3.38   |
| 5550 MHz                | 2.32   | 3.61   | 2.76   | 3.48   |
| 5580 MHz                | 2.19   | 3.26   | 2.5    | 3.31   |
| 5610 MHz                | 2.19   | 3.26   | 2.50   | 3.31   |
| 5670 MHz                | 2.78   | 2.98   | 3.41   | 3.28   |
| 5690 MHz                | 2.78   | 2.98   | 3.41   | 3.28   |
| 5700 MHz                | 2.66   | 3.15   | 3.49   | 3.26   |
| 5710MHz                 | 2.71   | 3.02   | 3.54   | 3.34   |
| 5720 MHz                | 2.52   | 2.84   | 3.46   | 3.42   |
| 5745 MHz                | 2.71   | 3.17   | 3.52   | 3.46   |
| 5755 MHz                | 2.7    | 3.07   | 3.29   | 3.39   |
| 5775 MHz                | 2.59   | 2.93   | 3.19   | 3.35   |
| 5785 MHz                | 2.75   | 2.88   | 3.31   | 3.41   |
| 5795 MHz                | 2.66   | 2.93   | 3.2    | 3.58   |
| 5825 MHz                | 2.38   | 2.86   | 3.15   | 3.54   |

Note: The EUT has four antennas.

**For IEEE 802.11a/n/ac mode (4TX/4RX):**

Ant.1, Ant.2, Ant.3 and Ant.4 can be used as transmitting/receiving antenna.

Ant.1, Ant.2, Ant.3 and Ant.4 could transmit/receive simultaneously.



### 1.1.3 DFS Band Carrier Frequencies

There are two bandwidth systems.

For 40MHz bandwidth systems, use Channel 54, 62, 102, 110, 118, 126, 134, 142.

For 80MHz bandwidth systems, use Channel 58, 106, 122, 138.

| Frequency Band          | Channel No. | Frequency | Channel No. | Frequency |
|-------------------------|-------------|-----------|-------------|-----------|
| 5250~5350 MHz<br>Band 2 | 54          | 5270 MHz  | 62          | 5310 MHz  |
|                         | 58          | 5290 MHz  | -           | -         |
| 5470~5725 MHz<br>Band 3 | 102         | 5510 MHz  | 126         | 5630 MHz  |
|                         | 106         | 5530 MHz  | 134         | 5670 MHz  |
|                         | 110         | 5550 MHz  | 138         | 5690 MHz  |
|                         | 118         | 5590 MHz  | 142         | 5710 MHz  |
|                         | 122         | 5610 MHz  | -           | -         |

### 1.1.4 Table for Class II Change

This product is an extension of original one reported under Sporton project number: 550536-02

Below is the table for the change of the product with respect to the original one.

| Modifications                                                                            | Performance Checking |
|------------------------------------------------------------------------------------------|----------------------|
| Adding 802.11n (HT40) and 802.11ac (VHT40/80) for master mode in 5GHz Band 2 and Band 3. | DFS test.            |

Note: There is no change in hardware or in existing RF relevant portion.

## 1.2 Accessories

| Accessories                                                          |            |            |                                                  |
|----------------------------------------------------------------------|------------|------------|--------------------------------------------------|
| Equipment Name                                                       | Brand Name | Model Name | Rating                                           |
| Adapter                                                              | PI         | AD2027310  | Input: 120V ~ 50/60Hz 680mA<br>Output: 12V, 1.5A |
| Others                                                               |            |            |                                                  |
| LAN Cable*1: 1.8 meter, non-shielded, w/o ferrite core<br>Pedestal*1 |            |            |                                                  |

## 1.3 Support Equipment

| Support Equipment |             |            |            |            |
|-------------------|-------------|------------|------------|------------|
| No.               | Equipment   | Brand Name | Model Name | FCC ID     |
| 1                 | Notebook*2  | DELL       | E4300      | DoC        |
| 2                 | WLAN Dongle | CISCO      | AE6000     | Q87-AE6000 |

## 1.4 Testing Applied Standards

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

- ♦ FCC 06-96 Appendix
- ♦ FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v01r02
- ♦ FCC KDB 443999 D01 Approval of DFS UNII Devices v01r04

## 1.5 Testing Location Information

| Testing Location                    |        |                                                                                                                               |               |                       |
|-------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------|
| <input type="checkbox"/>            | HWA YA | ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.<br>TEL : 886-3-327-3456 FAX : 886-3-327-0973   |               |                       |
| <input checked="" type="checkbox"/> | JHUBEI | ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.<br>TEL : 886-3-656-9065 FAX : 886-3-656-9085 |               |                       |
| Test Condition                      |        | Test Site No.                                                                                                                 | Test Engineer | Test Environment      |
| DFS Site                            |        | DF01-CB                                                                                                                       | Eric Fu       | 24°C / 57%            |
|                                     |        |                                                                                                                               |               | 01-Jun-15 ~ 17-Jun-15 |

## 2 Test Configuration of EUT

### 2.1 Test Channel Frequencies Configuration

| Test Channel Frequencies Configuration |                          |
|----------------------------------------|--------------------------|
| IEEE Std.                              | Test Channel Freq. (MHz) |
| 802.11ac (VHT40)                       | 5510 MHz                 |
| 802.11ac (VHT80)                       | 5530 MHz                 |

### 2.2 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests |                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | Dynamic Frequency Selection (DFS)                                                                                                                                                                                                                                                                                                                                                    |
| <b>Test Condition</b>                               | <p>Radiated measurement</p> <p>The EUT shall be configured to operate at the highest transmitter output power setting. If more than one antenna assembly is intended for this power setting, the gain of the antenna assembly with the lowest gain shall be used. The DFS radar test signals have been aligned to the direction corresponding to the EUT's maximum antenna gain.</p> |
| <b>Modulation Mode</b>                              | 802.11ac (VHT40), 802.11ac (VHT80)                                                                                                                                                                                                                                                                                                                                                   |

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

#### 3.1 General DFS Information

##### 3.1.1 DFS Parameters

| Table D.1: DFS requirement values |                                                                                                       |
|-----------------------------------|-------------------------------------------------------------------------------------------------------|
| Parameter                         | Value                                                                                                 |
| Non-occupancy period              | Minimum 30 minutes                                                                                    |
| Channel Availability Check Time   | 60 seconds                                                                                            |
| Channel Move Time                 | 10 seconds (Note 1).                                                                                  |
| Channel Closing Transmission Time | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second periods. (Notes 1 and 2). |
| U-NII Detection Bandwidth         | Minimum 100% of the 99% power bandwidth (Note 3).                                                     |

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate Channel changes (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

| Table D.2: Interference threshold values |                  |
|------------------------------------------|------------------|
| Maximum Transmit Power                   | Value (see note) |
| EIRP $\geq$ 200 mW                       | -64 dBm          |
| EIRP < 200 mW and PSD < 10dBm/MHz        | -62 dBm          |
| EIRP < 200 mW and PSD $\geq$ 10dBm/MHz   | -64 dBm          |

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911D01.

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

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

### 3.1.3 Applicability of DFS Requirements during Normal Operation

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

| Additional requirements for devices with multiple bandwidth modes | Master Device or Client with Radar Detection | Client Without Radar Detection                       |
|-------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|
| U-NII Detection Bandwidth and Statistical Performance Check       | All BW modes must be tested                  | Not required                                         |
| Channel Move Time and Channel Closing Transmission Time           | Test using widest BW mode available          | Test using the widest BW mode available for the link |
| All other tests                                                   | Any single BW mode                           | Not required                                         |

**Note:** Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

### 3.1.4 Uniform Spreading

#### Manufacturer Declare the Uniform Spreading

- ☒ For the 5250-5350 MHz and 5470-5725 MHz bands, the Master device provides, on aggregate, uniform loading of the spectrum across all devices by selecting an operating channel among the available channels using a Gaussian random algorithm.

### 3.1.5 User Access Restrictions

#### User Access Restrictions

- ☒ DFS controls (hardware or software) related to radar detection are NOT accessible to the user. Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user.

### 3.1.6 Channel Loading/Data Streaming

- ☒ IP Based (Load Based) - stream the test file from the Master to the Client.

- ☐ The data file (MPEG-4) has been transmitting in a streaming mode.
- ☐ Software to ping the client is permitted to simulate data transfer with random ping intervals.
- ☒ Minimum channel loading of approximately 17%.
- ☐ Unicast protocol has been used.

- ☐ Frame Based - stream the test file from the Master to the Client.

- ☐ fixed talk/listen ratio, set the ratio to 45%/55%

## 3.2 Radar Test Waveform Calibration

### 3.2.1 Short Pulse Radar Test Waveforms

| Radar Type                                                                                                                                  | Pulse Width (μsec) | PRI (μsec)                                      | Number of Pulses                                                                                         | Minimum Percentage of Successful Detection | Minimum Trials |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------|
| 0                                                                                                                                           | 1                  | 1428                                            | 18                                                                                                       | See Note 1                                 | See Note 1     |
| 1A                                                                                                                                          | 1                  | 15 unique PRI in KDB 905462 D02 Table 5a        | $\text{Roundup}\left\{\left(\frac{1}{360}\right) \times \left(\frac{19 \times 10^6}{PRI}\right)\right\}$ | 60%                                        | 15             |
| 1B                                                                                                                                          | 1                  | 15 unique PRI within 518-3066, Excluding 1A PRI |                                                                                                          | 60%                                        | 15             |
| 2                                                                                                                                           | 1-5                | 150-230                                         | 23-29                                                                                                    | 60%                                        | 30             |
| 3                                                                                                                                           | 6-10               | 200-500                                         | 16-18                                                                                                    | 60%                                        | 30             |
| 4                                                                                                                                           | 11-20              | 200-500                                         | 12-16                                                                                                    | 60%                                        | 30             |
| Aggregate (Radar Types 1-4)                                                                                                                 |                    |                                                 |                                                                                                          | 80%                                        | 120            |
| <b>Note 1:</b> Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests. |                    |                                                 |                                                                                                          |                                            |                |

A minimum of 30 unique waveforms are required for each of the short pulse radar types 2 through 4. For short pulse radar type 1, the same waveform is used a minimum of 30 times. 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. The aggregate is the average of the percentage of successful detections of short pulse radar types 1-4.

### 3.2.2 Long Pulse Radar Test Waveform

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

Each waveform is defined as follows:

- The transmission period for the Long Pulse Radar test signal is 12 seconds.
- There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst\_Count.
- Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.
- The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.
- Each pulse has a linear FM chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a Burst will have the same chirp width. Pulses in different Bursts may have different chirp widths. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.
- If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000

microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the time between the first and second pulses is chosen independently of the time between the second and third pulses.

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

### 3.2.3 Frequency Hopping Radar Test Waveform

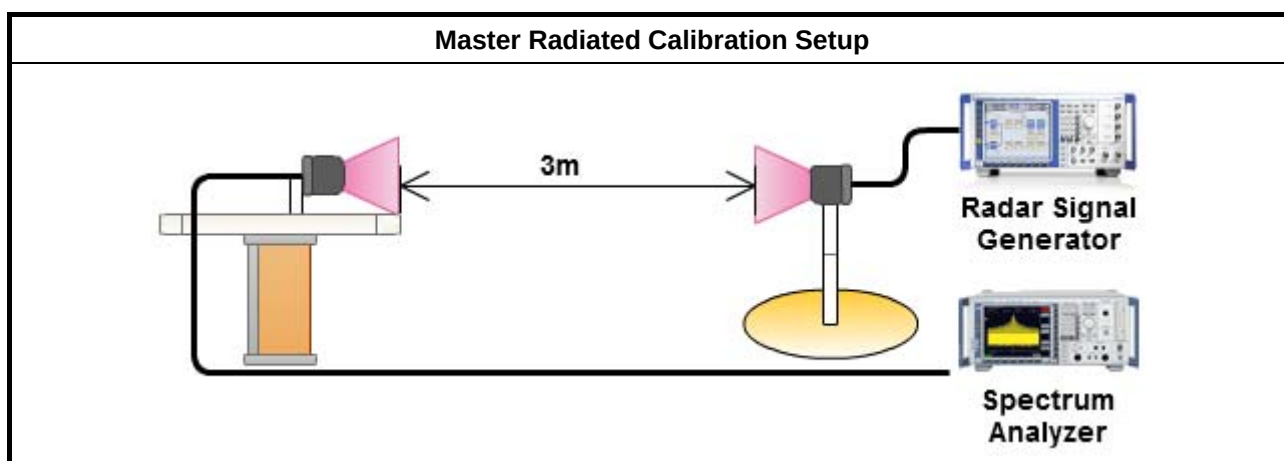
| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (ms) | Minimum Percentage of Successful Detection | Minimum Trials |
|------------|--------------------|------------|----------------|--------------------|------------------------------|--------------------------------------------|----------------|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

The FCC Type 6 waveform uses a static waveform with 100 bursts in the instruments ARB. In addition, the RF list mode is operated with a list containing 100 frequencies from a randomly generated list and it had be ensured that at least one of the random frequencies falls into the UNII Detection Bandwidth of the DUT. Each burst from the waveform file initiates a trigger pulse at the beginning that switches the RF list from one item to the next one.

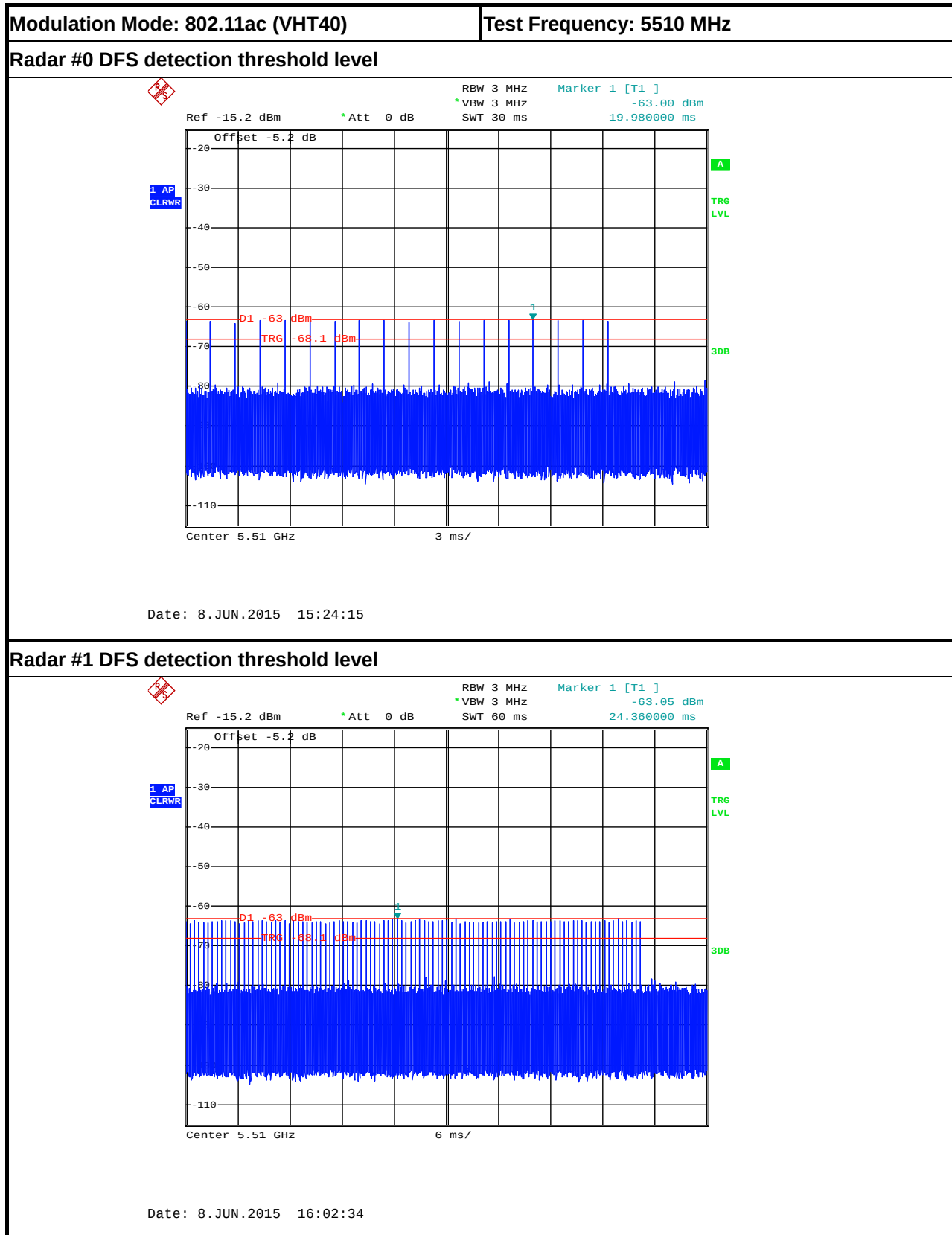
### 3.2.4 DFS Threshold Level

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

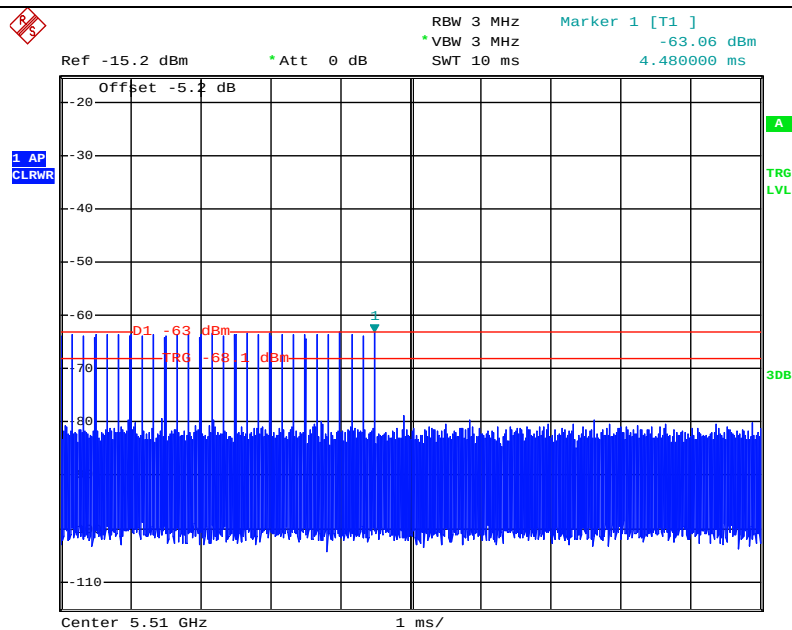
### 3.2.5 Calibration Setup



## 3.2.6 Radar Waveform calibration Plot

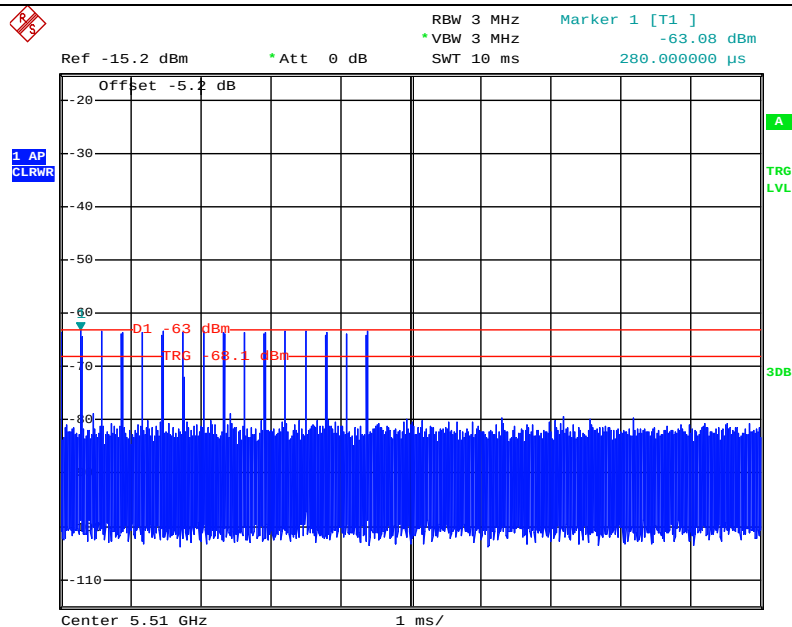


## Radar #2 DFS detection threshold level



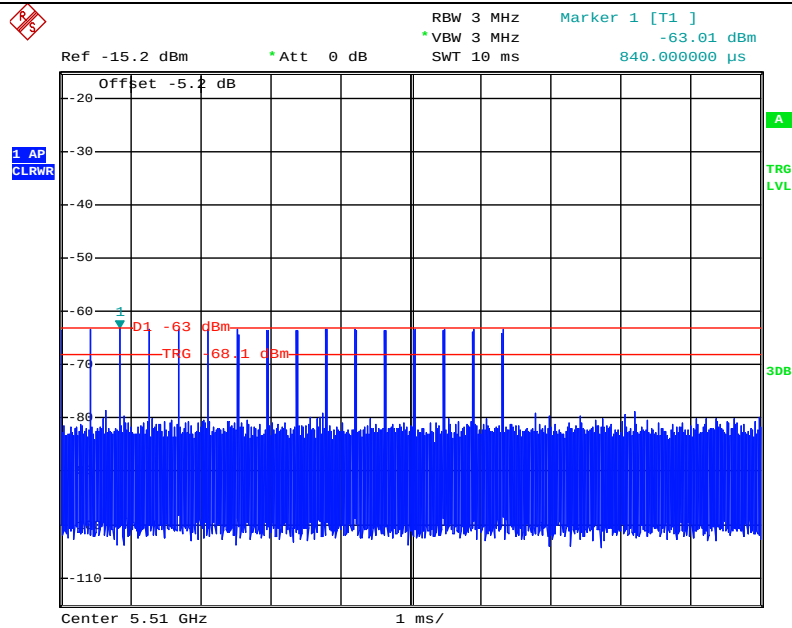
Date: 8.JUN.2015 15:28:02

## Radar #3 DFS detection threshold level



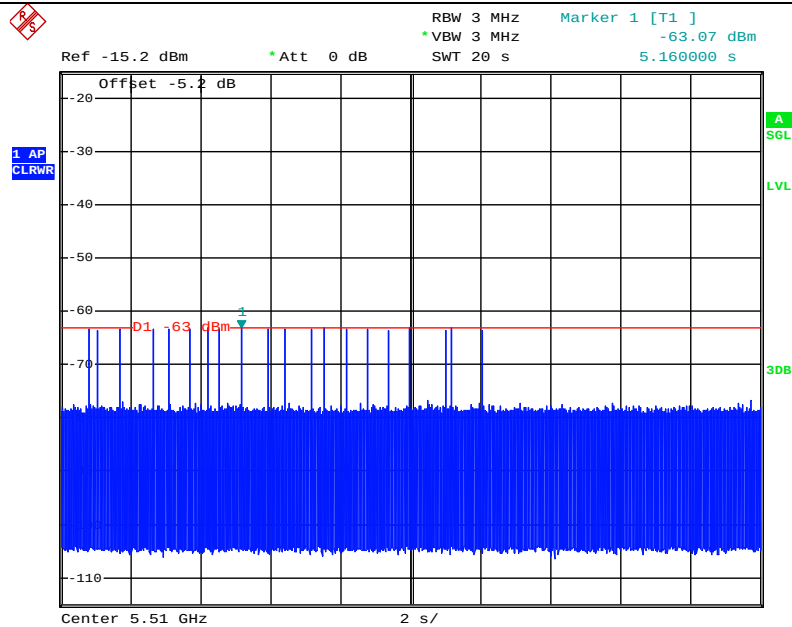
Date: 8.JUN.2015 15:32:29

## Radar #4 DFS detection threshold level



Date: 8.JUN.2015 15:34:29

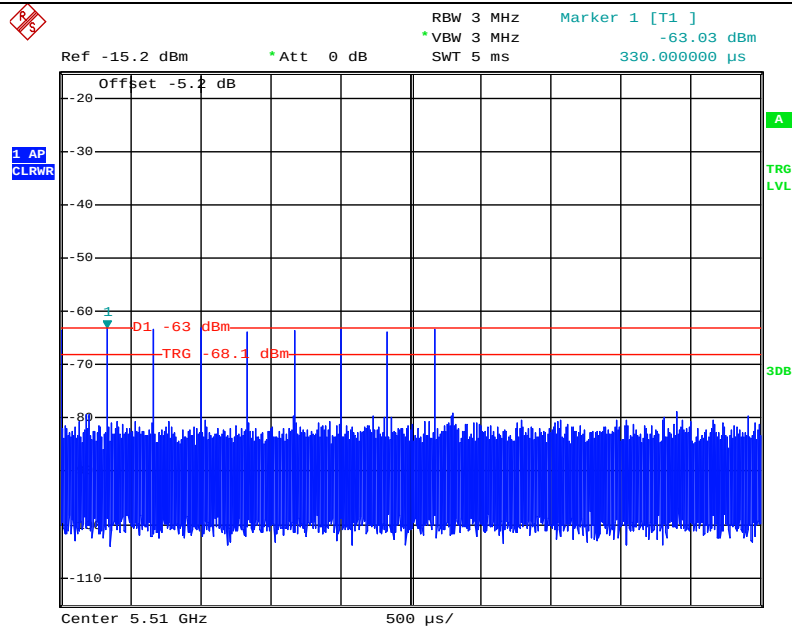
## Radar #5 DFS detection threshold level



Date: 8.JUN.2015 15:43:18



Radar #6 DFS detection threshold level



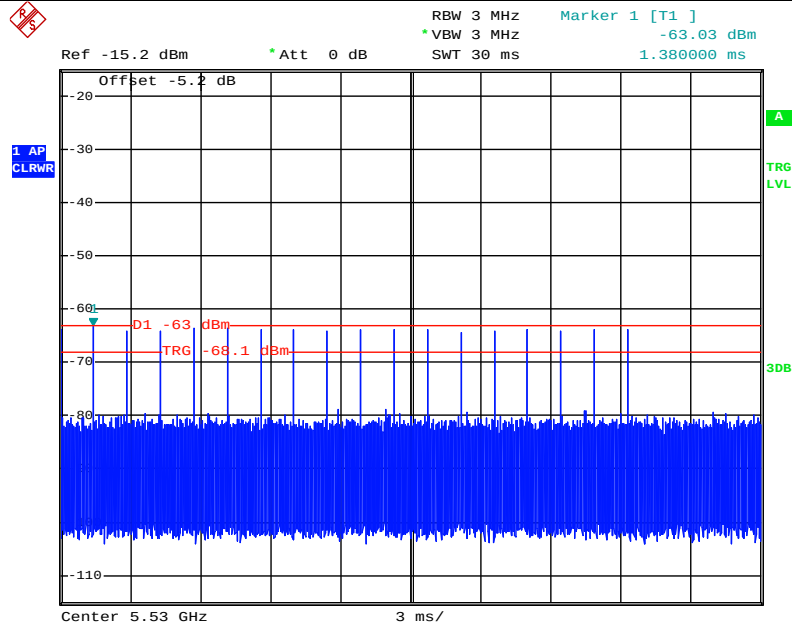
Date: 8.JUN.2015 15:55:50



Modulation Mode: 802.11ac (VHT80)

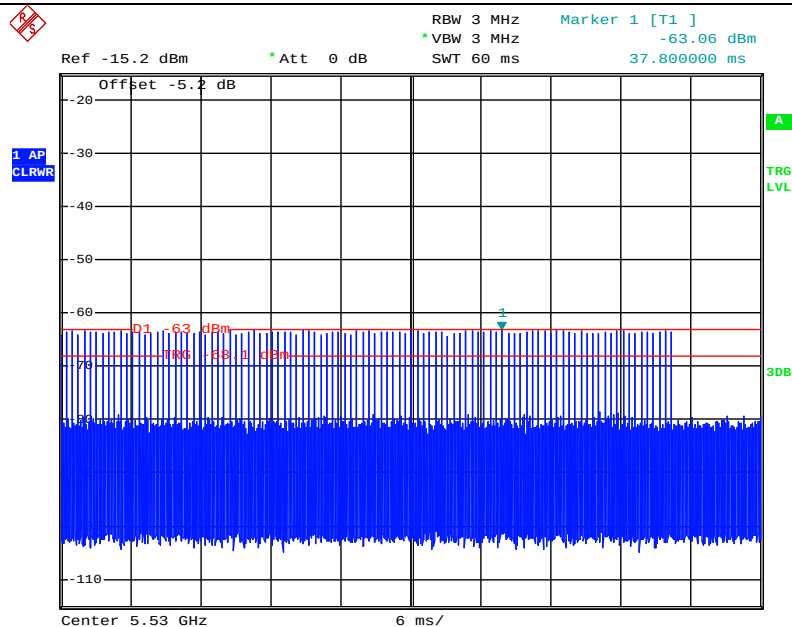
Test Frequency: 5530 MHz

Radar #0 DFS detection threshold level



Date: 8.JUN.2015 15:25:04

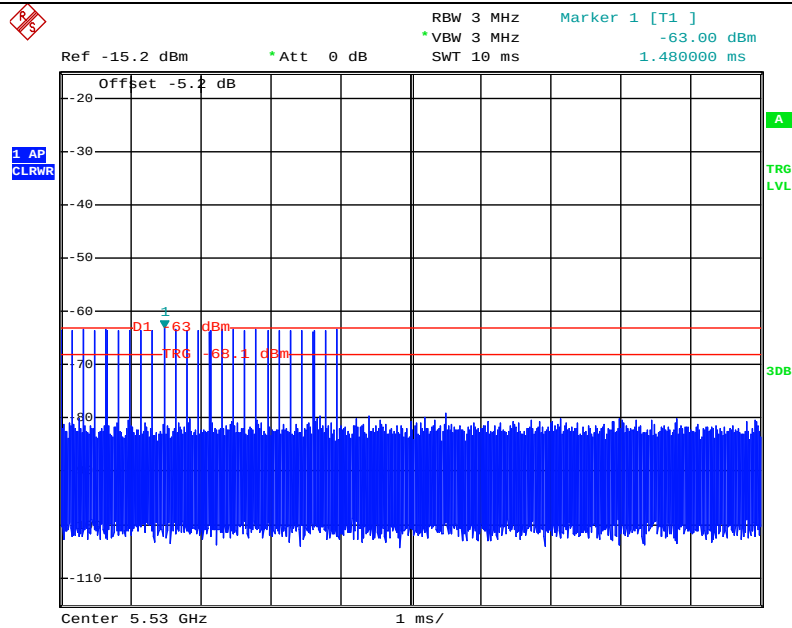
Radar #1 DFS detection threshold level



Date: 8.JUN.2015 16:02:59

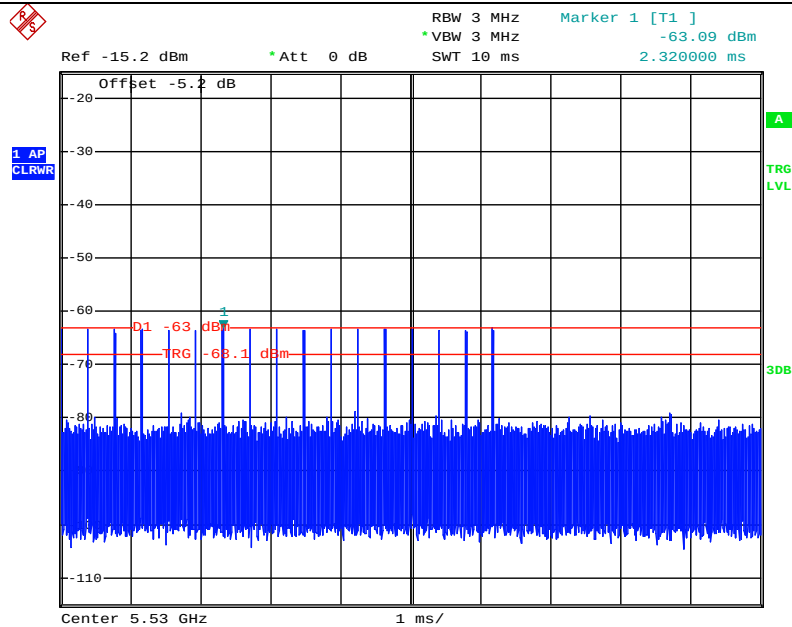


Radar #2 DFS detection threshold level



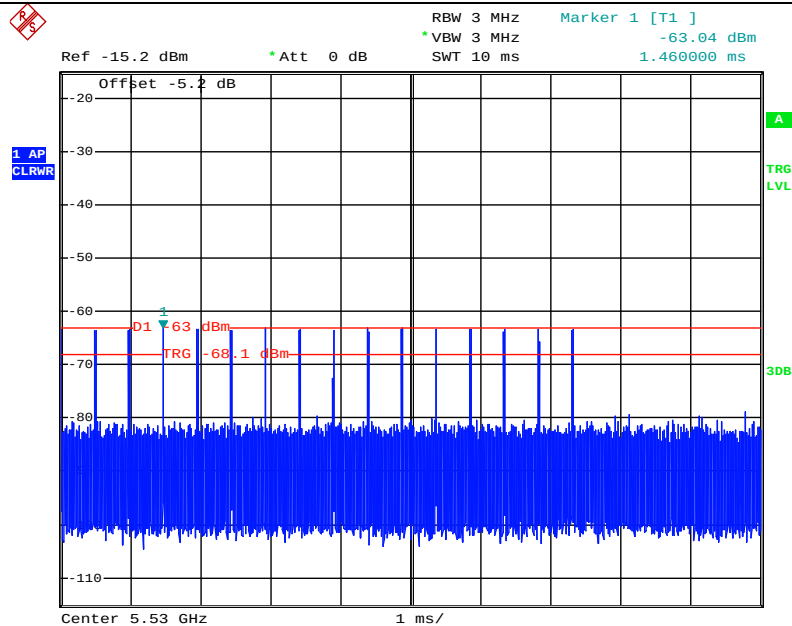
Date: 8.JUN.2015 15:26:33

Radar #3 DFS detection threshold level



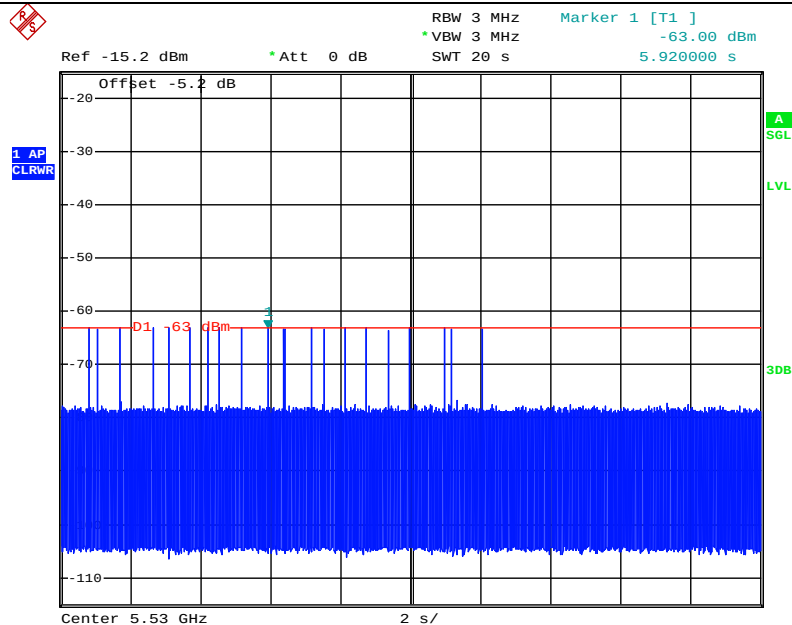
Date: 8.JUN.2015 15:33:23

### Radar #4 DFS detection threshold level



Date: 8.JUN.2015 15:33:59

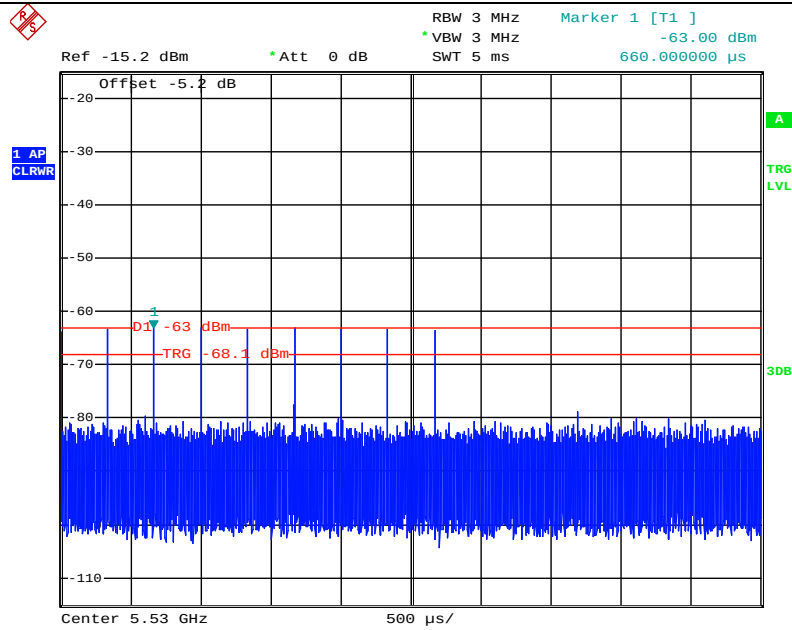
### Radar #5 DFS detection threshold level



Date: 8.JUN.2015 15:45:22



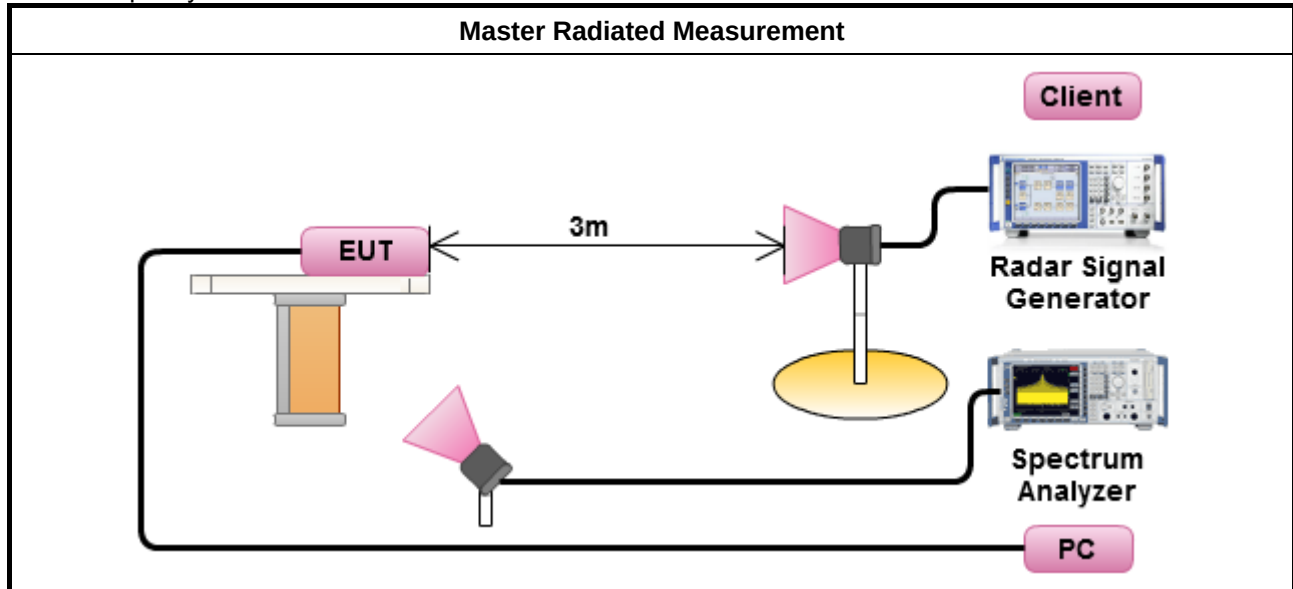
Radar #6 DFS detection threshold level



Date: 8.JUN.2015 15:55:08

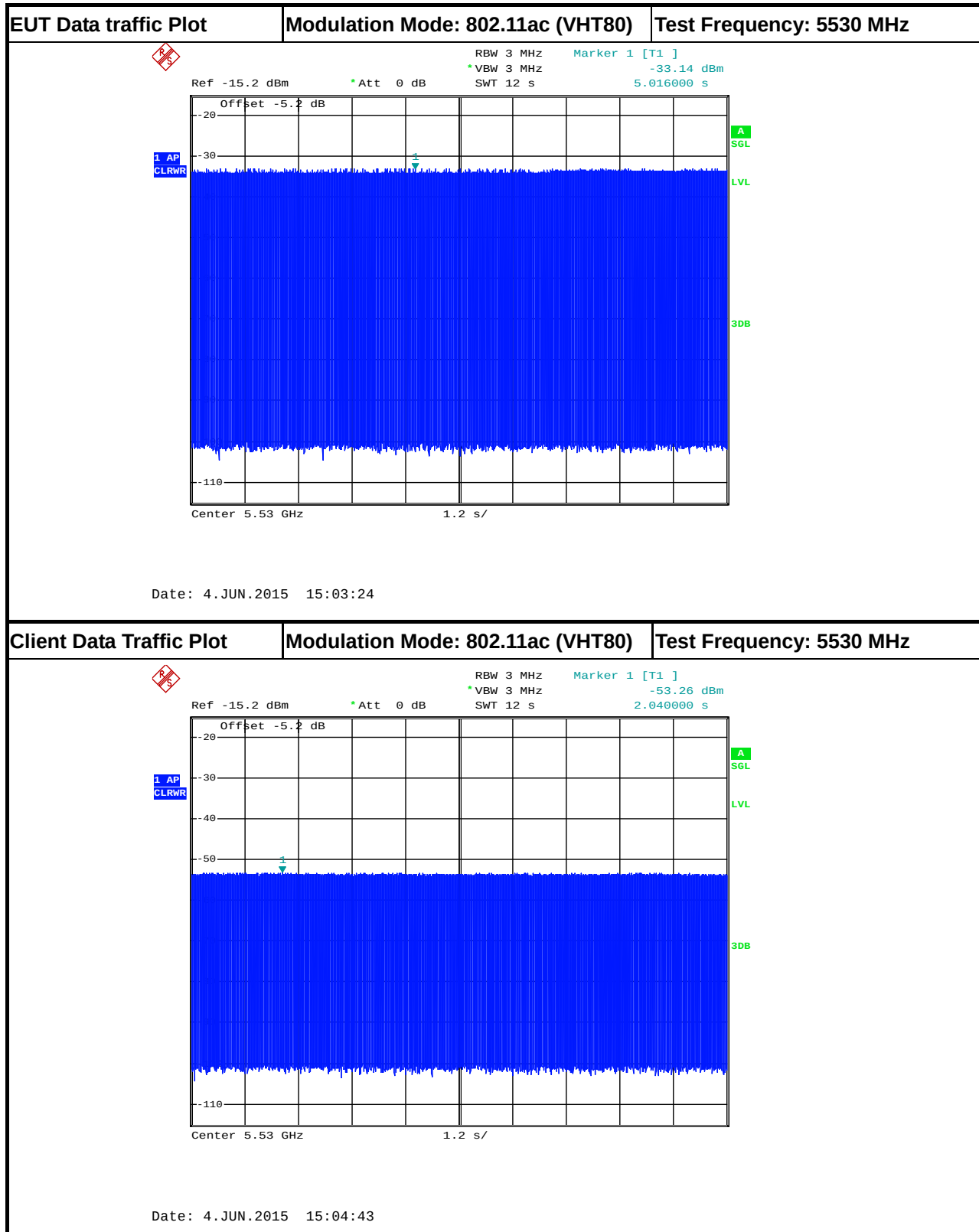
### 3.2.7 Test Setup

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





### 3.2.8 Data traffic Plot



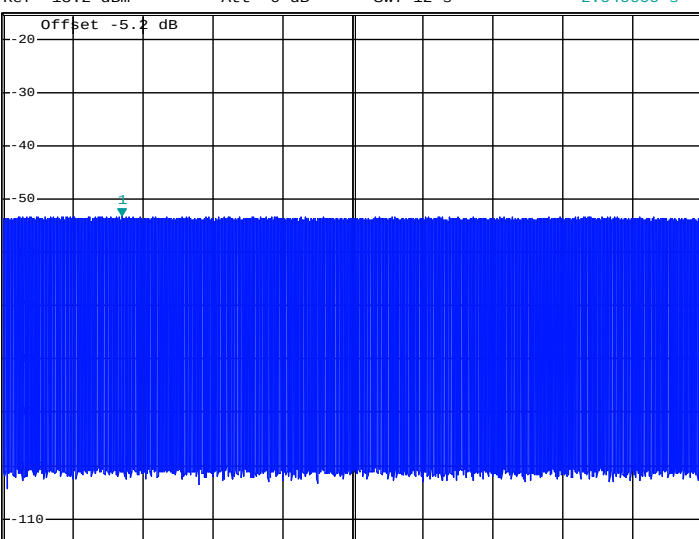
1 APCLRWR

Ref -15.2 dBm\* Att 0 dBRBW 3 MHzMarker 1 [T1 ]

VBW 3 MHz-53.26 dBm

SWT 12 s2.040000 s

Offset -5.2 dB



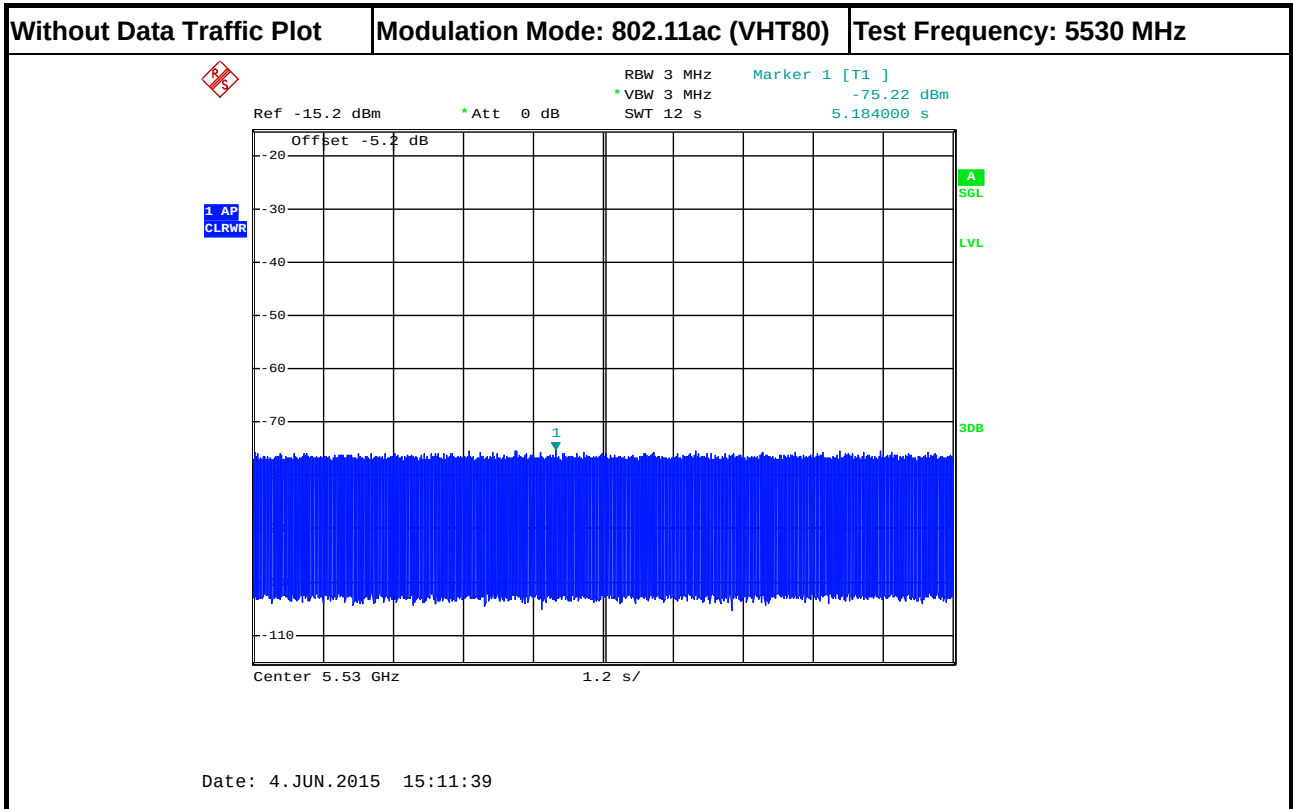
Center 5.53 GHz1.2 s/

A

SGL

LVL

3dB



### 3.3 UNII Detection Bandwidth

#### 3.3.1 UNII Detection Bandwidth Limit

| Channel Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | UNII Detection Bandwidth Min. Limit (MHz) | ISM Type 5 Limit (MHz) |
|-------------------------|------------------------------|-------------------------------------------|------------------------|
| 40                      | 36.80                        | 37                                        | 30                     |
| 80                      | 75.20                        | 76                                        | 61                     |

UNII Detection Bandwidth is minimum 100% of the 99% power bandwidth. A single radar Burst is generated for a minimum of 10 trials, and the response of the UUT is noted. The UUT must detect the Radar Waveform 90% or more of the time.  
The center frequency for each of the 30 trials of the Bin 5 radar shall be randomly selected within 80% of the Occupied Bandwidth.

#### 3.3.2 Measuring Instruments

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

#### 3.3.3 Test Procedures

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

**3.3.4 Test Result of UNII Detection Bandwidth**

| EUT Frequency=5510 MHz                                                |                                                     |   |   |   |   |   |   |   |   |    |                    |
|-----------------------------------------------------------------------|-----------------------------------------------------|---|---|---|---|---|---|---|---|----|--------------------|
| Channel Bandwidth (MHz)                                               | 40                                                  |   |   |   |   |   |   |   |   |    |                    |
| Radar Frequency (MHz)                                                 | DFS Detection Trials (1=Detection, 0= No Detection) |   |   |   |   |   |   |   |   |    | Detection Rate (%) |
|                                                                       | 1                                                   | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |                    |
| 5490(FL)-Type 0                                                       | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5491                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5492                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5493                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5494                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5495(FL)-Type 5                                                       | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5500                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5505                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5502                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5510                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5515                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5520                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5525(FH)-Type 5                                                       | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5526                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5527                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5528                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5529                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5530(FH)-Type 0                                                       | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| Radar Type 0-Detection Bandwidth (MHz) = (FH-FL) = (5530MHz-5490MHz)= |                                                     |   |   |   |   |   |   |   |   |    | 40                 |
| UNII Detection Bandwidth Min. Limit (MHz) =                           |                                                     |   |   |   |   |   |   |   |   |    | 37                 |
| Radar Type 5-Detection Bandwidth (MHz) = (FH-FL) = (5525MHz-5495MHz)= |                                                     |   |   |   |   |   |   |   |   |    | 30                 |
| ISM Type 5 Limit (MHz) =                                              |                                                     |   |   |   |   |   |   |   |   |    | 30                 |
| <b>Test Result</b>                                                    |                                                     |   |   |   |   |   |   |   |   |    | <b>Complied</b>    |



| EUT Frequency=5530 MHz                                                |                                                     |   |   |   |   |   |   |   |   |    |                    |
|-----------------------------------------------------------------------|-----------------------------------------------------|---|---|---|---|---|---|---|---|----|--------------------|
| Channel Bandwidth (MHz)                                               | 80                                                  |   |   |   |   |   |   |   |   |    |                    |
| Radar Frequency (MHz)                                                 | DFS Detection Trials (1=Detection, 0= No Detection) |   |   |   |   |   |   |   |   |    | Detection Rate (%) |
|                                                                       | 1                                                   | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |                    |
| 5490(FL)-Type 0                                                       | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5491                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5492                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5495                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5496                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5497                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5498(FL)-Type 5                                                       | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5499                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5500                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5510                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5515                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5520                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5525                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5530                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5535                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5540                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5545                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5550                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5555                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5560                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5561                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5562(FH)-Type 5                                                       | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5563                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5554                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5565                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5566                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5567                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5568                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5569                                                                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5570(FH)-Type 0                                                       | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| Radar Type 0-Detection Bandwidth (MHz) = (FH-FL) = (5570MHz-5490MHz)= |                                                     |   |   |   |   |   |   |   |   |    | 80                 |
| UNII Detection Bandwidth Min. Limit (MHz) =                           |                                                     |   |   |   |   |   |   |   |   |    | 76                 |
| Radar Type 5-Detection Bandwidth (MHz) = (FH-FL) = (5562MHz-5498MHz)= |                                                     |   |   |   |   |   |   |   |   |    | 64                 |
| ISM Type 5 Limit (MHz) =                                              |                                                     |   |   |   |   |   |   |   |   |    | 61                 |
| Test Result                                                           |                                                     |   |   |   |   |   |   |   |   |    | Complied           |

### 3.4 Channel Availability Check (CAC)

#### 3.4.1 Channel Availability Check Limit

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

#### 3.4.2 Measuring Instruments

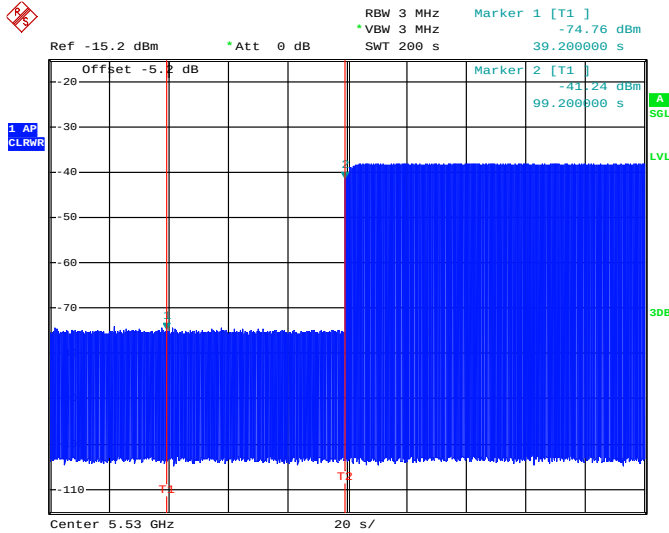
Refer a test equipment and calibration data table in this test report.

#### 3.4.3 Test Procedures

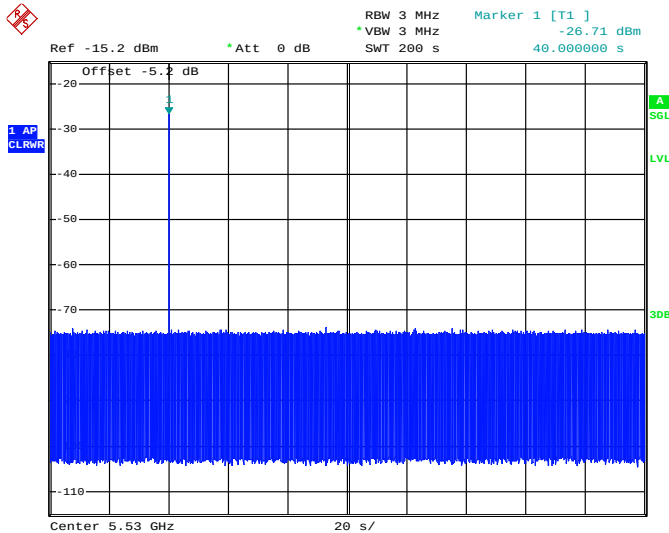
| Test Method                         |                                                                                                                                                                                                                                                                     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



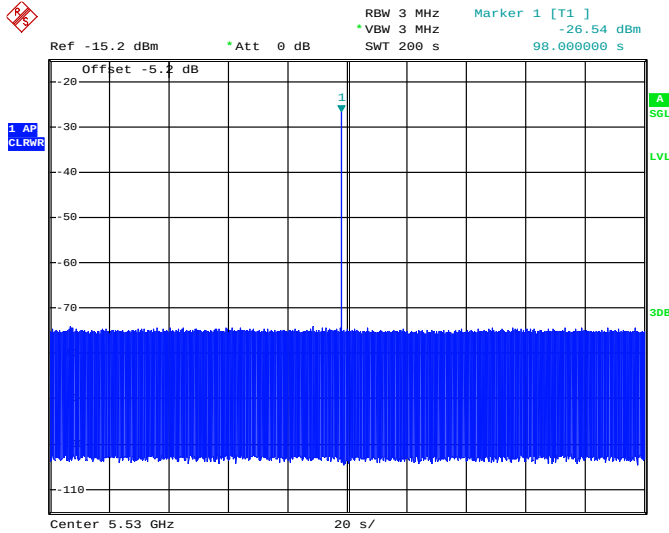
## 3.4.4 Test Result of Initial Channel Availability Check Time

| Modulation Mode                                                                                                                                                                                                                                                                                           | Freq.    | Radar Test Signal |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------|
| 802.11ac (VHT80)                                                                                                                                                                                                                                                                                          | 5530 MHz | N/A               |
| <p>The EUT does not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle (39.200 sec). The initial power up time of the EUT is indicated by marker 1 (39.200 sec). Initial beacons/data transmissions are indicated by marker 2 (99.200 sec).</p> |          |                   |
|  <p>Date: 5.JUN.2015 00:54:07</p>                                                                                                                                                                                      |          |                   |
| Test Result                                                                                                                                                                                                                                                                                               |          | Complied          |

### 3.4.5 Test Result of Radar Burst at the Beginning of the Channel Availability Check Time

| Modulation Mode                                                                                                                                                                                                                                                                                             | Freq. (MHz) | Radar Type Signal |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------|
| 802.11ac (VHT80)                                                                                                                                                                                                                                                                                            | 5530 MHz    | 0                 |
| <p>Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions will continue for 160.000 seconds after the radar Burst has been generated. Verify that during the 200.000 seconds measurement window no EUT transmissions occurred.</p> |             |                   |
|  <p>Ref -15.2 dBm    *Att 0 dB    RBW 3 MHz    Marker 1 [T1] -26.71 dBm<br/> Offset -5.2 dB    *VBW 3 MHz    SWT 200 s    40.000000 s</p> <p>Center 5.53 GHz    20 s/</p> <p>Date: 5.JUN.2015 00:58:52</p>               |             |                   |
| <b>Test Result</b>                                                                                                                                                                                                                                                                                          |             | <b>Complied</b>   |

**3.4.6 Test Result of Radar Burst at the End of the Channel Availability Check Time**

| Modulation Mode                                                                                                                                                                                                                                                                                      | Freq. (MHz) | Radar Type Signal |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------|
| 802.11ac (VHT80)                                                                                                                                                                                                                                                                                     | 5530 MHz    | 0                 |
| Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions will continue for 102.000 seconds after the radar Burst has been generated. Verify that during the 200.000 seconds measurement window no EUT transmissions occurred. |             |                   |
|  <p>Date: 5.JUN.2015 01:01:28</p>                                                                                                                                                                                 |             |                   |
| Test Result                                                                                                                                                                                                                                                                                          |             | Complied          |

### 3.5 In-service Monitoring

#### 3.5.1 In-service Monitoring Limit

| In-service Monitoring Limit       |                                                               |
|-----------------------------------|---------------------------------------------------------------|
| Channel Move Time                 | 10 sec                                                        |
| Channel Closing Transmission Time | 200 ms + an aggregate of 60 ms over remaining 10 sec periods. |
| Non-occupancy period              | Minimum 30 minutes                                            |

#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

| Test Method                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. Client Device will associate with the EUT. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). Compare the Channel Move Time and Channel Closing Transmission Time limits. |
| <input checked="" type="checkbox"/> | Verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. One 12 sec plot needs to be reported for the Short Pulse Radar Types 0 and one for the Long Pulse Radar Type in a 22 sec plot. And zoom-in a 600 ms plot verified channel closing time for the aggregate transmission time starting from 200ms after the end of the radar signal to the completion of the channel move.                                     |
| <input checked="" type="checkbox"/> | Verified during In-Service Monitoring; Non-Occupancy Period. Client Device will associate with the EUT. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Non-Occupancy Period). Compare the Non-Occupancy Period limits.                                                                 |

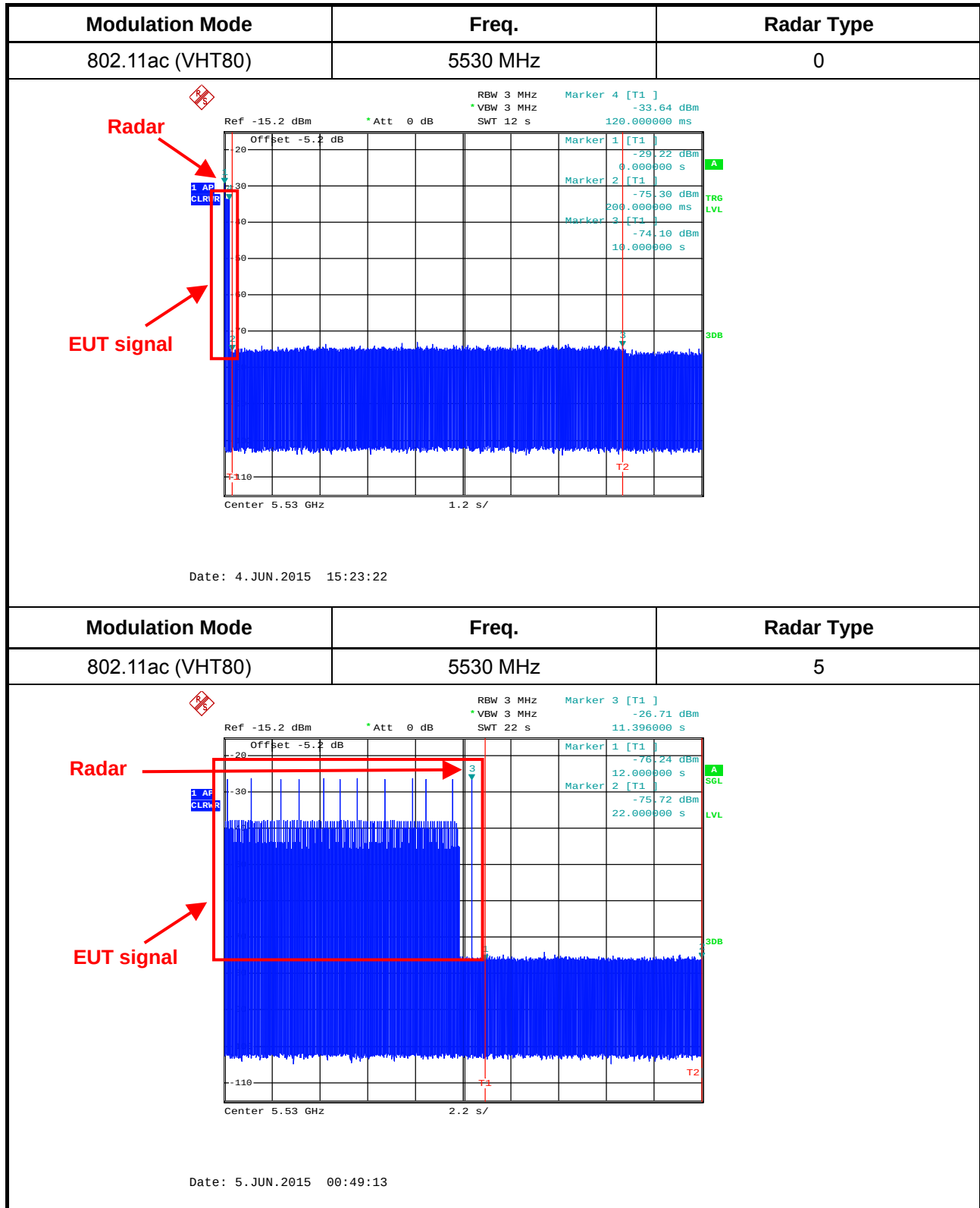
### 3.5.4 Test Result of In-service Monitoring

Modulation Mode: 802.11ac (VHT80)

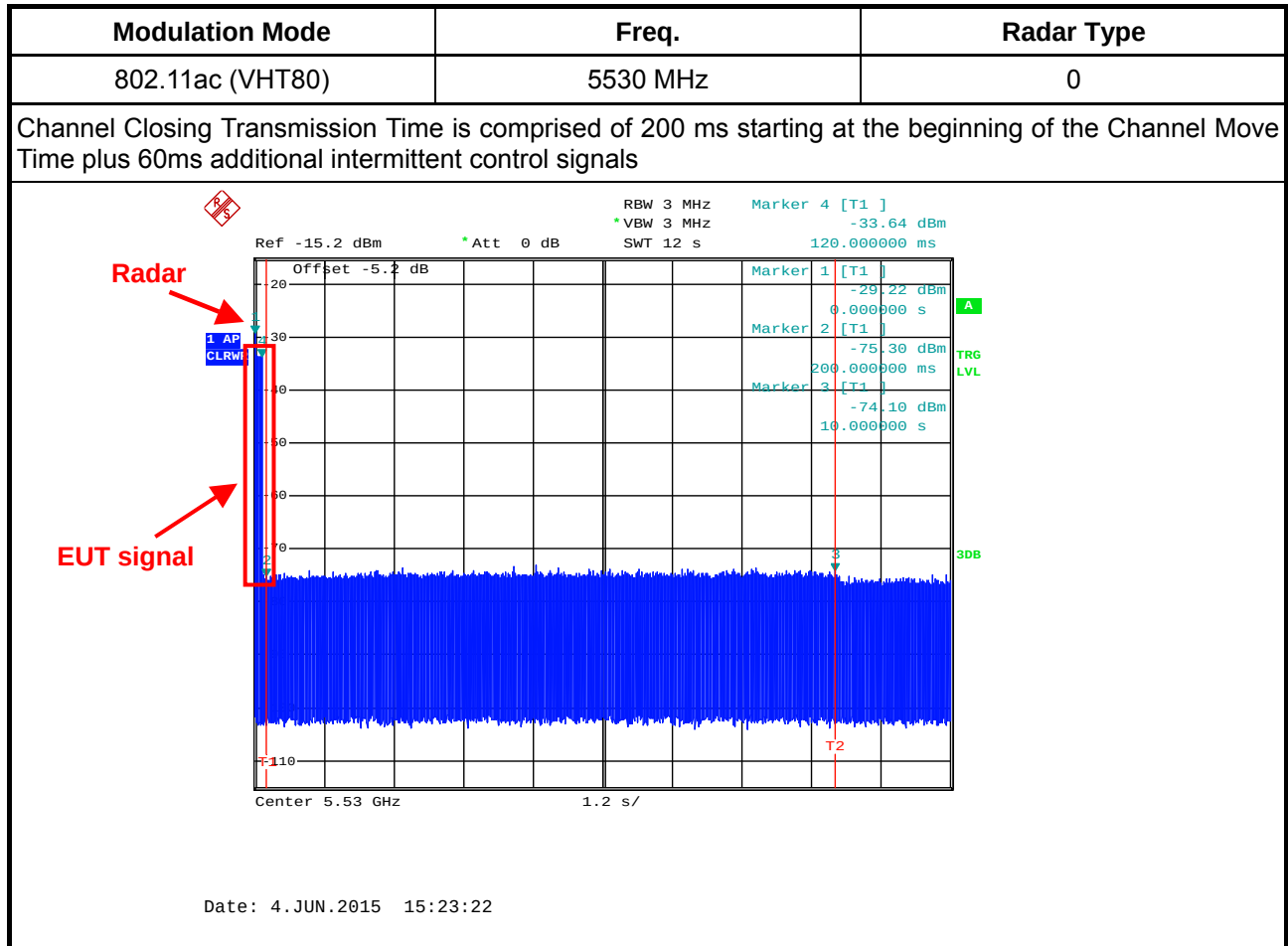
| Parameter                                     | Test Result |          | Limit         |
|-----------------------------------------------|-------------|----------|---------------|
|                                               | Type 0      | Type 5   |               |
| Test Channel (MHz)                            | 5530 MHz    | 5530 MHz | -             |
| Channel Move Time (sec.)                      | 0.120       | 0        | < 10s         |
| Channel Closing Transmission Time (ms) (Note) | 0           | 0        | < 60ms        |
| Non-Occupancy Period (min.)                   | $\geq 30$   | -        | $\geq 30$ min |

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

### 3.5.5 Test Plot of In-Service Monitoring for Channel Move Time



### 3.5.6 Test Plot of In-Service Monitoring for Channel Closing Transmission Time



Dwell is the dwell time per spectrum analyzer sampling bin.

S is the sweep time

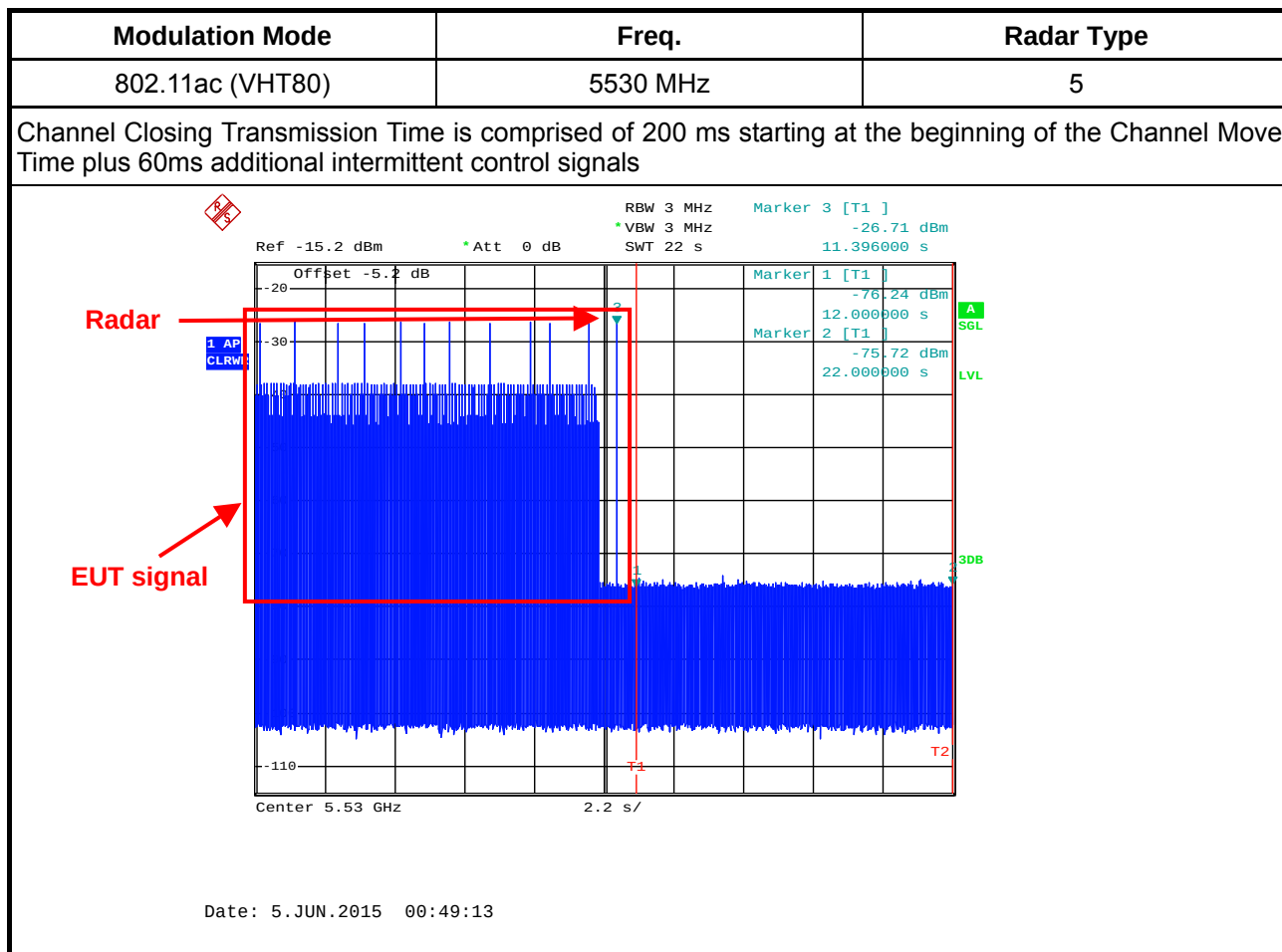
B is the number of spectrum analyzer sampling bins

C is the intermittent control signals of Channel Closing Transmission Time

N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission

Dwell (2 ms) = S (1000 ms) / B (500)

C (0 ms) = N (0) X Dwell (2 ms)



**Dwell is the dwell time per spectrum analyzer sampling bin.**

**S is the sweep time**

**B is the number of spectrum analyzer sampling bins**

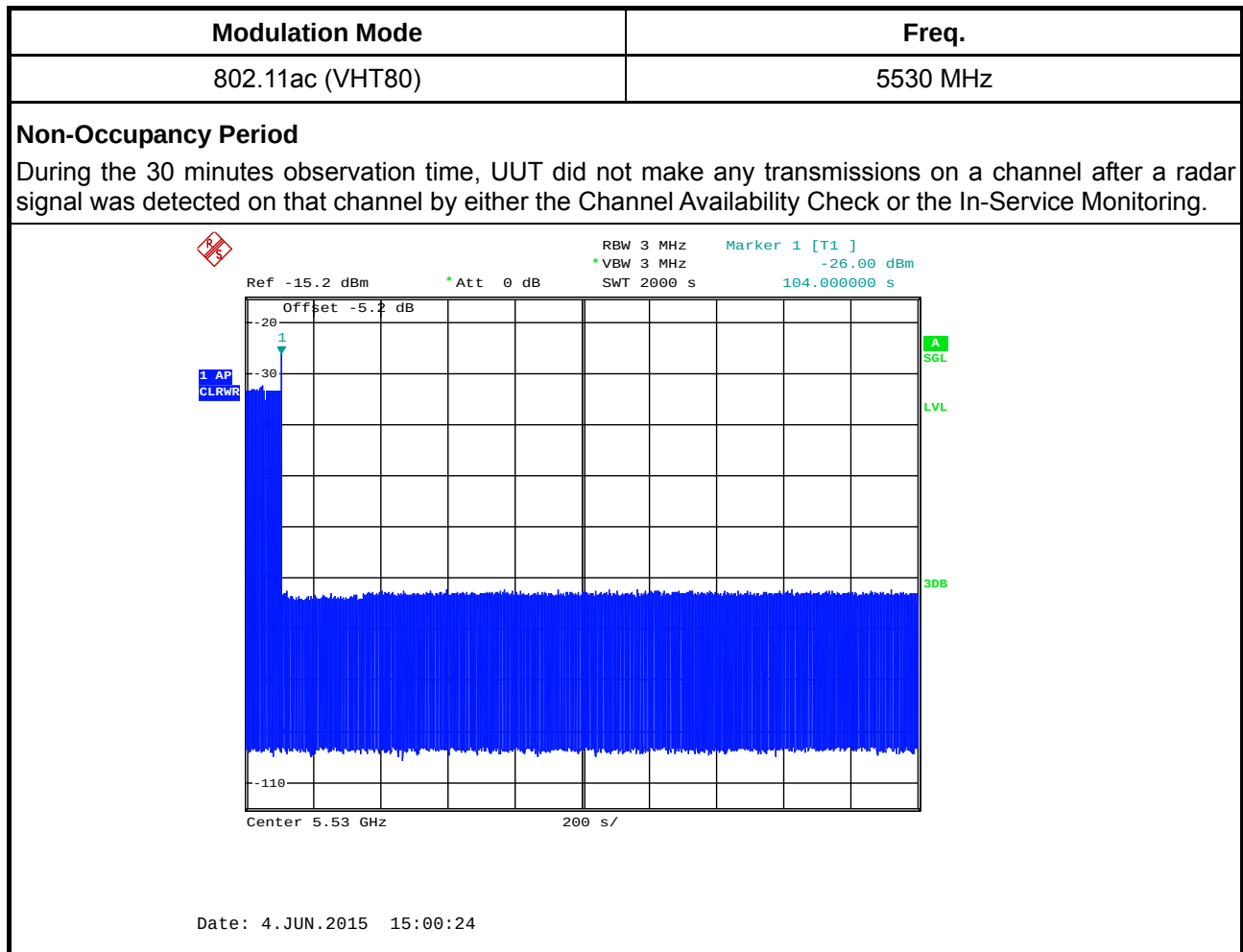
**C is the intermittent control signals of Channel Closing Transmission Time**

N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission

**Dwell (44 ms)= S (22000 ms) / B (500)**

**C (0 ms) = N (0) X Dwell (44 ms)**

### 3.5.7 Test Plot of In-Service Monitoring for Non-Occupancy Period



### 3.6 Statistical Performance Check

#### 3.6.1 Statistical Performance Check Limit

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

The percentage of successful detection is calculated by:

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

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

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

#### 3.6.2 Measuring Instruments

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

#### 3.6.3 Test Procedures

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

**3.6.4 Test Result of Statistical Performance Check**

Modulation Mode: 802.11ac (VHT40)

*Type 1 Radar Statistical Performance*

| Trail #                  | Test Freq. (MHz) | Pulse Repetition<br>Frequency Number | Pulse Repetition<br>Frequency<br>(Pulse Per Second) | PRI (us) | 1=Detection<br>0=No Detection |
|--------------------------|------------------|--------------------------------------|-----------------------------------------------------|----------|-------------------------------|
| 1                        | 5496             | 1                                    | 1930.5                                              | 518      | 1                             |
| 2                        | 5497             | 23                                   | 326.2                                               | 3066     | 1                             |
| 3                        | 5498             | 19                                   | 1139.0                                              | 878      | 1                             |
| 4                        | 5499             | 12                                   | 1355.0                                              | 738      | 1                             |
| 5                        | 5500             | 4                                    | 1730.1                                              | 578      | 1                             |
| 6                        | 5501             | 8                                    | 1519.8                                              | 658      | 1                             |
| 7                        | 5502             | 15                                   | 1253.1                                              | 798      | 1                             |
| 8                        | 5503             | 6                                    | 1618.1                                              | 618      | 1                             |
| 9                        | 5504             | 14                                   | 1285.3                                              | 778      | 0                             |
| 10                       | 5505             | 3                                    | 1792.1                                              | 558      | 0                             |
| 11                       | 5506             | 13                                   | 1319.3                                              | 758      | 1                             |
| 12                       | 5507             | 9                                    | 1474.9                                              | 678      | 1                             |
| 13                       | 5508             | 7                                    | 1567.4                                              | 638      | 1                             |
| 14                       | 5509             | 17                                   | 1193.3                                              | 838      | 1                             |
| 15                       | 5510             | 10                                   | 1432.7                                              | 698      | 1                             |
| 16                       | 5511             | -                                    | 1692.0                                              | 591      | 1                             |
| 17                       | 5512             | -                                    | 328.1                                               | 3048     | 0                             |
| 18                       | 5513             | -                                    | 373.4                                               | 2678     | 1                             |
| 19                       | 5514             | -                                    | 574.4                                               | 1741     | 1                             |
| 20                       | 5515             | -                                    | 1216.5                                              | 822      | 1                             |
| 21                       | 5516             | -                                    | 801.3                                               | 1248     | 1                             |
| 22                       | 5517             | -                                    | 488.5                                               | 2047     | 1                             |
| 23                       | 5518             | -                                    | 956.0                                               | 1046     | 1                             |
| 24                       | 5519             | -                                    | 517.6                                               | 1932     | 1                             |
| 25                       | 5520             | -                                    | 1422.5                                              | 703      | 1                             |
| 26                       | 5521             | -                                    | 542.0                                               | 1845     | 1                             |
| 27                       | 5522             | -                                    | 741.3                                               | 1349     | 1                             |
| 28                       | 5523             | -                                    | 881.8                                               | 1134     | 1                             |
| 29                       | 5524             | -                                    | 427.4                                               | 2340     | 1                             |
| 30                       | 5525             | -                                    | 628.9                                               | 1590     | 1                             |
| Detection Percentage (%) |                  |                                      |                                                     |          | 90.00                         |
| Limit                    |                  |                                      |                                                     |          | 60%                           |
| <b>Test Result</b>       |                  |                                      |                                                     |          | <b>Complied</b>               |

**Type 2 Radar Statistical Performance**

| Trail #                  | Test Freq. (MHz) | Pulse Width (us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|------------------|------------------|----------|----------------|-------------------------------|
| 1                        | 5496             | 2.6              | 221      | 23             | 1                             |
| 2                        | 5497             | 4.6              | 198      | 27             | 1                             |
| 3                        | 5498             | 1.1              | 184      | 29             | 1                             |
| 4                        | 5499             | 4.8              | 203      | 24             | 1                             |
| 5                        | 5500             | 2.4              | 162      | 25             | 1                             |
| 6                        | 5501             | 3.4              | 204      | 28             | 1                             |
| 7                        | 5502             | 2.3              | 170      | 27             | 1                             |
| 8                        | 5503             | 3.5              | 184      | 23             | 1                             |
| 9                        | 5504             | 4.9              | 150      | 27             | 1                             |
| 10                       | 5505             | 4.6              | 211      | 29             | 1                             |
| 11                       | 5506             | 2.9              | 158      | 23             | 0                             |
| 12                       | 5507             | 2.6              | 226      | 27             | 1                             |
| 13                       | 5508             | 1.6              | 204      | 26             | 1                             |
| 14                       | 5509             | 3.9              | 181      | 25             | 0                             |
| 15                       | 5510             | 4.6              | 202      | 24             | 1                             |
| 16                       | 5511             | 4.1              | 194      | 27             | 1                             |
| 17                       | 5512             | 2.3              | 193      | 28             | 1                             |
| 18                       | 5513             | 3.9              | 173      | 29             | 1                             |
| 19                       | 5514             | 4.3              | 188      | 23             | 1                             |
| 20                       | 5515             | 1.5              | 215      | 26             | 1                             |
| 21                       | 5516             | 4.9              | 227      | 27             | 1                             |
| 22                       | 5517             | 1.1              | 199      | 23             | 1                             |
| 23                       | 5518             | 4.5              | 155      | 29             | 1                             |
| 24                       | 5519             | 4.0              | 190      | 27             | 1                             |
| 25                       | 5520             | 2.4              | 151      | 23             | 1                             |
| 26                       | 5521             | 2.5              | 180      | 28             | 1                             |
| 27                       | 5522             | 2.5              | 228      | 23             | 1                             |
| 28                       | 5523             | 2.5              | 203      | 25             | 1                             |
| 29                       | 5524             | 1.5              | 188      | 25             | 0                             |
| 30                       | 5525             | 1.9              | 217      | 24             | 1                             |
| Detection Percentage (%) |                  |                  |          |                | 90.00                         |
| Limit                    |                  |                  |          |                | 60%                           |
| Test Result              |                  |                  |          |                | Complied                      |



**Type 3 Radar Statistical Performance**

| Trail #                  | Test Freq. (MHz) | Pulse Width (us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|------------------|------------------|----------|----------------|-------------------------------|
| 1                        | 5496             | 8.0              | 205      | 16             | 1                             |
| 2                        | 5497             | 6.7              | 382      | 18             | 1                             |
| 3                        | 5498             | 8.6              | 418      | 16             | 1                             |
| 4                        | 5499             | 9.4              | 351      | 17             | 1                             |
| 5                        | 5500             | 7.4              | 383      | 18             | 1                             |
| 6                        | 5501             | 9.8              | 232      | 16             | 1                             |
| 7                        | 5502             | 9.1              | 377      | 17             | 1                             |
| 8                        | 5503             | 9.6              | 457      | 16             | 1                             |
| 9                        | 5504             | 8.0              | 471      | 18             | 1                             |
| 10                       | 5505             | 9.0              | 304      | 18             | 1                             |
| 11                       | 5506             | 8.0              | 316      | 17             | 0                             |
| 12                       | 5507             | 9.8              | 325      | 16             | 1                             |
| 13                       | 5508             | 8.0              | 409      | 17             | 1                             |
| 14                       | 5509             | 9.9              | 200      | 17             | 0                             |
| 15                       | 5510             | 8.8              | 458      | 16             | 1                             |
| 16                       | 5511             | 8.0              | 232      | 18             | 1                             |
| 17                       | 5512             | 8.3              | 250      | 16             | 1                             |
| 18                       | 5529             | 8.7              | 270      | 16             | 0                             |
| 19                       | 5514             | 7.7              | 350      | 17             | 1                             |
| 20                       | 5515             | 7.1              | 230      | 16             | 1                             |
| 21                       | 5516             | 7.3              | 416      | 18             | 1                             |
| 22                       | 5517             | 7.6              | 498      | 18             | 1                             |
| 23                       | 5491             | 7.3              | 286      | 17             | 0                             |
| 24                       | 5519             | 7.3              | 287      | 16             | 1                             |
| 25                       | 5520             | 7.5              | 462      | 17             | 1                             |
| 26                       | 5521             | 6.2              | 300      | 17             | 0                             |
| 27                       | 5522             | 6.4              | 323      | 18             | 1                             |
| 28                       | 5523             | 7.1              | 420      | 16             | 1                             |
| 29                       | 5524             | 7.2              | 395      | 18             | 1                             |
| 30                       | 5525             | 8.4              | 377      | 16             | 1                             |
| Detection Percentage (%) |                  |                  |          |                | 83.33                         |
| Limit                    |                  |                  |          |                | 60%                           |
| <b>Test Result</b>       |                  |                  |          |                | <b>Complied</b>               |

**Type 4 Radar Statistical Performance**

| <b>Trail #</b>           | <b>Test Freq. (MHz)</b> | <b>Pulse Width (us)</b> | <b>PRI (us)</b> | <b>Pulses / Burst</b> | <b>1=Detection<br/>0=No Detection</b> |
|--------------------------|-------------------------|-------------------------|-----------------|-----------------------|---------------------------------------|
| 1                        | 5496                    | 18.0                    | 242             | 15                    | 1                                     |
| 2                        | 5497                    | 19.9                    | 279             | 12                    | 0                                     |
| 3                        | 5498                    | 12.9                    | 487             | 14                    | 1                                     |
| 4                        | 5499                    | 15.0                    | 452             | 13                    | 1                                     |
| 5                        | 5500                    | 16.3                    | 230             | 12                    | 1                                     |
| 6                        | 5501                    | 19.8                    | 238             | 13                    | 1                                     |
| 7                        | 5502                    | 18.2                    | 420             | 16                    | 1                                     |
| 8                        | 5529                    | 16.3                    | 452             | 15                    | 0                                     |
| 9                        | 5504                    | 14.2                    | 495             | 12                    | 1                                     |
| 10                       | 5505                    | 17.8                    | 228             | 16                    | 1                                     |
| 11                       | 5506                    | 19.1                    | 211             | 16                    | 1                                     |
| 12                       | 5507                    | 18.4                    | 283             | 15                    | 1                                     |
| 13                       | 5508                    | 11.8                    | 411             | 12                    | 1                                     |
| 14                       | 5509                    | 14.2                    | 284             | 13                    | 1                                     |
| 15                       | 5510                    | 13.9                    | 202             | 12                    | 1                                     |
| 16                       | 5511                    | 17.8                    | 340             | 14                    | 1                                     |
| 17                       | 5512                    | 15.6                    | 290             | 16                    | 1                                     |
| 18                       | 5513                    | 14.6                    | 250             | 16                    | 1                                     |
| 19                       | 5514                    | 14.4                    | 484             | 15                    | 1                                     |
| 20                       | 5515                    | 18.9                    | 387             | 13                    | 1                                     |
| 21                       | 5516                    | 11.1                    | 348             | 15                    | 1                                     |
| 22                       | 5517                    | 13.8                    | 291             | 16                    | 1                                     |
| 23                       | 5518                    | 14.3                    | 295             | 12                    | 0                                     |
| 24                       | 5519                    | 12.5                    | 300             | 12                    | 1                                     |
| 25                       | 5520                    | 12.5                    | 322             | 14                    | 1                                     |
| 26                       | 5521                    | 12.5                    | 383             | 13                    | 1                                     |
| 27                       | 5522                    | 15.7                    | 322             | 16                    | 1                                     |
| 28                       | 5523                    | 19.8                    | 469             | 13                    | 1                                     |
| 29                       | 5524                    | 18.6                    | 406             | 15                    | 1                                     |
| 30                       | 5491                    | 15.9                    | 238             | 14                    | 0                                     |
| Detection Percentage (%) |                         |                         |                 |                       | 86.67                                 |
| Limit                    |                         |                         |                 |                       | 60%                                   |
| <b>Test Result</b>       |                         |                         |                 |                       | <b>Complied</b>                       |

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

| <b>Radar Type #</b>         | <b>Detection Percentage (%)</b> |
|-----------------------------|---------------------------------|
| 1                           | 90.00                           |
| 2                           | 90.00                           |
| 3                           | 83.33                           |
| 4                           | 86.67                           |
| Aggregate (Radar Types 1-4) | 87.50                           |
| Limit                       | 80%                             |
| <b>Test Result</b>          | <b>Complied</b>                 |



**Type 5 Radar Statistical Performance**

| Trail #                  | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection | Trail # | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection | Trail # | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|-------------------------------|---------|---------------------|-------------------------------|---------|---------------------|-------------------------------|
| 1                        | 5492                | 1                             | 11      | 5502                | 1                             | 21      | 5512                | 1                             |
| 2                        | 5493                | 1                             | 12      | 5503                | 1                             | 22      | 5513                | 1                             |
| 3                        | 5494                | 1                             | 13      | 5504                | 1                             | 23      | 5514                | 1                             |
| 4                        | 5495                | 1                             | 14      | 5505                | 1                             | 24      | 5515                | 0                             |
| 5                        | 5496                | 1                             | 15      | 5506                | 1                             | 25      | 5516                | 1                             |
| 6                        | 5497                | 0                             | 16      | 5507                | 1                             | 26      | 5517                | 1                             |
| 7                        | 5498                | 1                             | 17      | 5508                | 0                             | 27      | 5518                | 1                             |
| 8                        | 5499                | 1                             | 18      | 5509                | 1                             | 28      | 5519                | 1                             |
| 9                        | 5500                | 1                             | 19      | 5510                | 1                             | 29      | 5520                | 1                             |
| 10                       | 5501                | 1                             | 20      | 5511                | 1                             | 30      | 5521                | 1                             |
| Detection Percentage (%) |                     |                               |         |                     |                               |         |                     | 90%                           |
| Limit                    |                     |                               |         |                     |                               |         |                     | 80%                           |
| <b>Test Result</b>       |                     |                               |         |                     |                               |         |                     | <b>Complied</b>               |



| Trail Number                                  |               |                  | 1                 |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 8                 |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5492              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 1             | 62.3             | 8                 | -                         | -                         | 346                                    |
| 2                                             | 2             | 51.2             | 15                | 1745                      | -                         | 1205                                   |
| 3                                             | 3             | 93.6             | 5                 | 957                       | 1634                      | 674                                    |
| 4                                             | 3             | 68.2             | 12                | 1668                      | 1573                      | 384                                    |
| 5                                             | 3             | 83.1             | 8                 | 1188                      | 1888                      | 876                                    |
| 6                                             | 1             | 56.7             | 18                | -                         | -                         | 376                                    |
| 7                                             | 2             | 60.6             | 18                | 1874                      | -                         | 1409                                   |
| 8                                             | 3             | 75.5             | 13                | 1263                      | 1683                      | 1378                                   |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |



| <b>Trail Number</b>                                  |                      |                         | 2                        |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 9                        |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5493                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 1                    | 99.6                    | 13                       | -                                | -                                | 217                                           |
| 2                                                    | 2                    | 54.8                    | 15                       | 1727                             | -                                | 982                                           |
| 3                                                    | 3                    | 91.1                    | 15                       | 1120                             | 1826                             | 941                                           |
| 4                                                    | 2                    | 76.2                    | 7                        | 1638                             | -                                | 477                                           |
| 5                                                    | 1                    | 88.9                    | 13                       | -                                | -                                | 259                                           |
| 6                                                    | 1                    | 83                      | 9                        | -                                | -                                | 892                                           |
| 7                                                    | 1                    | 83.9                    | 12                       | -                                | -                                | 320                                           |
| 8                                                    | 2                    | 55.9                    | 15                       | 1613                             | -                                | 445                                           |
| 9                                                    | 1                    | 96.1                    | 13                       | -                                | -                                | 779                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| Trail Number                                  |               |                  | 3                 |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 10                |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5494              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 2             | 82               | 6                 | 1246                      | -                         | 1017                                   |
| 2                                             | 1             | 93.2             | 13                | -                         | -                         | 760                                    |
| 3                                             | 2             | 61.3             | 13                | 1175                      | -                         | 327                                    |
| 4                                             | 1             | 52.8             | 8                 | -                         | -                         | 824                                    |
| 5                                             | 3             | 70.6             | 19                | 929                       | 1076                      | 115                                    |
| 6                                             | 1             | 80.3             | 17                | -                         | -                         | 325                                    |
| 7                                             | 1             | 83.2             | 15                | -                         | -                         | 679                                    |
| 8                                             | 2             | 94               | 9                 | 1805                      | -                         | 888                                    |
| 9                                             | 2             | 67               | 8                 | 1486                      | -                         | 849                                    |
| 10                                            | 1             | 56.4             | 20                | -                         | -                         | 813                                    |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |



| Trail Number                                  |               |                  | 4                 |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 11                |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5495              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 3             | 90.5             | 8                 | 1149                      | 1612                      | 35                                     |
| 2                                             | 3             | 54.5             | 8                 | 1094                      | 1525                      | 1014                                   |
| 3                                             | 1             | 57.1             | 18                | -                         | -                         | 827                                    |
| 4                                             | 2             | 98.6             | 20                | 1292                      | -                         | 83                                     |
| 5                                             | 2             | 62.9             | 12                | 1433                      | -                         | 676                                    |
| 6                                             | 1             | 71.1             | 15                | -                         | -                         | 708                                    |
| 7                                             | 1             | 96.7             | 5                 | -                         | -                         | 711                                    |
| 8                                             | 1             | 64.3             | 5                 | -                         | -                         | 484                                    |
| 9                                             | 3             | 61.2             | 8                 | 1075                      | 1524                      | 444                                    |
| 10                                            | 2             | 79.2             | 13                | 1877                      | -                         | 797                                    |
| 11                                            | 2             | 79.3             | 20                | 1313                      | -                         | 288                                    |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |



| <b>Trail Number</b>                                  |                      |                         | 5                        |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 12                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5496                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 1                    | 89.5                    | 13                       | -                                | -                                | 20                                            |
| 2                                                    | 3                    | 71.8                    | 11                       | 1446                             | 1549                             | 117                                           |
| 3                                                    | 3                    | 53.7                    | 15                       | 1100                             | 1517                             | 485                                           |
| 4                                                    | 2                    | 99.3                    | 11                       | 1571                             | -                                | 334                                           |
| 5                                                    | 3                    | 56.8                    | 6                        | 1594                             | 1280                             | 468                                           |
| 6                                                    | 1                    | 97.4                    | 11                       | -                                | -                                | 213                                           |
| 7                                                    | 2                    | 67.6                    | 13                       | 1831                             | -                                | 14                                            |
| 8                                                    | 3                    | 77.1                    | 8                        | 1683                             | 1337                             | 267                                           |
| 9                                                    | 1                    | 98.5                    | 17                       | -                                | -                                | 544                                           |
| 10                                                   | 3                    | 58.3                    | 13                       | 1924                             | 1829                             | 159                                           |
| 11                                                   | 1                    | 98.4                    | 14                       | -                                | -                                | 380                                           |
| 12                                                   | 1                    | 79.3                    | 11                       | -                                | -                                | 257                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| <b>Trail Number</b>                                  |                      |                         | 6                        |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 13                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5497                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 2                    | 53.8                    | 14                       | 1631                             | -                                | 768                                           |
| 2                                                    | 1                    | 90                      | 17                       | -                                | -                                | 530                                           |
| 3                                                    | 3                    | 87.2                    | 18                       | 1115                             | 1297                             | 157                                           |
| 4                                                    | 2                    | 82                      | 11                       | 1728                             | -                                | 892                                           |
| 5                                                    | 3                    | 69.8                    | 7                        | 1641                             | 1779                             | 196                                           |
| 6                                                    | 2                    | 63.1                    | 20                       | 1836                             | -                                | 331                                           |
| 7                                                    | 1                    | 59.8                    | 6                        | -                                | -                                | 495                                           |
| 8                                                    | 3                    | 78.5                    | 19                       | 941                              | 1921                             | 546                                           |
| 9                                                    | 1                    | 85.7                    | 6                        | -                                | -                                | 219                                           |
| 10                                                   | 3                    | 67.7                    | 9                        | 1834                             | 1450                             | 534                                           |
| 11                                                   | 2                    | 84.5                    | 15                       | 1376                             | -                                | 282                                           |
| 12                                                   | 2                    | 99.3                    | 13                       | 1570                             | -                                | 486                                           |
| 13                                                   | 2                    | 80.2                    | 8                        | 1088                             | -                                | 67                                            |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 0                                             |



| Trail Number                                  |               |                  | 7                 |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 14                |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5498              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 3             | 80.8             | 10                | 1061                      | 1124                      | 389                                    |
| 2                                             | 2             | 81               | 9                 | 1479                      | -                         | 234                                    |
| 3                                             | 2             | 87.6             | 17                | 1247                      | -                         | 577                                    |
| 4                                             | 2             | 94.7             | 18                | 1041                      | -                         | 572                                    |
| 5                                             | 2             | 78               | 18                | 1267                      | -                         | 313                                    |
| 6                                             | 1             | 95.5             | 14                | -                         | -                         | 52                                     |
| 7                                             | 2             | 97.6             | 15                | 1215                      | -                         | 57                                     |
| 8                                             | 3             | 88               | 9                 | 1349                      | 1598                      | 171                                    |
| 9                                             | 2             | 69.7             | 17                | 1711                      | -                         | 769                                    |
| 10                                            | 2             | 96.5             | 17                | 1431                      | -                         | 168                                    |
| 11                                            | 2             | 96.9             | 6                 | 1871                      | -                         | 124                                    |
| 12                                            | 3             | 66.4             | 10                | 1824                      | 1468                      | 766                                    |
| 13                                            | 1             | 78.8             | 10                | -                         | -                         | 537                                    |
| 14                                            | 3             | 87.6             | 6                 | 1080                      | 1159                      | 714                                    |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |



| <b>Trail Number</b>                                  |                      |                         | 8                        |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 15                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5499                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 2                    | 71.8                    | 14                       | 1432                             | -                                | 573                                           |
| 2                                                    | 2                    | 65.9                    | 19                       | 1762                             | -                                | 314                                           |
| 3                                                    | 2                    | 74.7                    | 6                        | 1754                             | -                                | 377                                           |
| 4                                                    | 3                    | 81.7                    | 5                        | 1133                             | 974                              | 216                                           |
| 5                                                    | 3                    | 57.8                    | 14                       | 1176                             | 1712                             | 129                                           |
| 6                                                    | 1                    | 80.6                    | 6                        | -                                | -                                | 341                                           |
| 7                                                    | 3                    | 99.3                    | 17                       | 1268                             | 1876                             | 165                                           |
| 8                                                    | 1                    | 79.8                    | 12                       | -                                | -                                | 618                                           |
| 9                                                    | 3                    | 83                      | 11                       | 990                              | 1738                             | 589                                           |
| 10                                                   | 3                    | 71.5                    | 11                       | 1473                             | 1255                             | 6                                             |
| 11                                                   | 1                    | 77.4                    | 11                       | -                                | -                                | 127                                           |
| 12                                                   | 2                    | 84.8                    | 12                       | 1390                             | -                                | 515                                           |
| 13                                                   | 2                    | 64.6                    | 12                       | 1653                             | -                                | 148                                           |
| 14                                                   | 2                    | 92.9                    | 12                       | 1881                             | -                                | 519                                           |
| 15                                                   | 1                    | 71.3                    | 6                        | -                                | -                                | 301                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| Trail Number                                  |               |                  | 9                 |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 16                |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5500              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 2             | 55.4             | 9                 | 1318                      | -                         | 383                                    |
| 2                                             | 2             | 80.8             | 18                | 1710                      | -                         | 534                                    |
| 3                                             | 1             | 88.8             | 9                 | -                         | -                         | 495                                    |
| 4                                             | 2             | 78               | 12                | 1818                      | -                         | 92                                     |
| 5                                             | 1             | 78.5             | 12                | -                         | -                         | 108                                    |
| 6                                             | 2             | 55               | 13                | 1219                      | -                         | 123                                    |
| 7                                             | 2             | 75.9             | 20                | 1004                      | -                         | 123                                    |
| 8                                             | 2             | 70.9             | 7                 | 1820                      | -                         | 546                                    |
| 9                                             | 2             | 71.7             | 18                | 1559                      | -                         | 476                                    |
| 10                                            | 2             | 73.9             | 19                | 1232                      | -                         | 235                                    |
| 11                                            | 1             | 59.2             | 20                | -                         | -                         | 424                                    |
| 12                                            | 1             | 55.7             | 9                 | -                         | -                         | 391                                    |
| 13                                            | 3             | 60.9             | 12                | 1144                      | 1370                      | 198                                    |
| 14                                            | 2             | 60.8             | 14                | 990                       | -                         | 16                                     |
| 15                                            | 3             | 60.6             | 19                | 1526                      | 1326                      | 695                                    |
| 16                                            | 2             | 89               | 5                 | 1029                      | -                         | 131                                    |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |



| <b>Trail Number</b>                                  |                      |                         | 10                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 17                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5501                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 2                    | 72.1                    | 14                       | 1119                             | -                                | 488                                           |
| 2                                                    | 3                    | 81.4                    | 13                       | 1142                             | 961                              | 451                                           |
| 3                                                    | 3                    | 92.9                    | 18                       | 991                              | 1147                             | 565                                           |
| 4                                                    | 3                    | 81.3                    | 18                       | 1793                             | 1369                             | 285                                           |
| 5                                                    | 3                    | 76.4                    | 20                       | 1005                             | 1793                             | 79                                            |
| 6                                                    | 1                    | 61.6                    | 18                       | -                                | -                                | 503                                           |
| 7                                                    | 1                    | 66.6                    | 19                       | -                                | -                                | 181                                           |
| 8                                                    | 1                    | 53.7                    | 12                       | -                                | -                                | 416                                           |
| 9                                                    | 2                    | 58                      | 8                        | 1477                             | -                                | 107                                           |
| 10                                                   | 2                    | 64                      | 18                       | 1791                             | -                                | 141                                           |
| 11                                                   | 2                    | 80.3                    | 12                       | 1304                             | -                                | 516                                           |
| 12                                                   | 3                    | 77.3                    | 5                        | 1039                             | 1668                             | 372                                           |
| 13                                                   | 2                    | 97.6                    | 11                       | 1593                             | -                                | 163                                           |
| 14                                                   | 1                    | 73                      | 6                        | -                                | -                                | 147                                           |
| 15                                                   | 3                    | 65.1                    | 8                        | 1097                             | 1927                             | 102                                           |
| 16                                                   | 2                    | 59.5                    | 13                       | 1569                             | -                                | 182                                           |
| 17                                                   | 1                    | 88.2                    | 19                       | -                                | -                                | 653                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| <b>Trail Number</b>                                  |                      |                         | 11                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 18                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5502                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 2                    | 56.1                    | 12                       | 1219                             | -                                | 273                                           |
| 2                                                    | 1                    | 83.3                    | 7                        | -                                | -                                | 298                                           |
| 3                                                    | 3                    | 79.6                    | 17                       | 1218                             | 1897                             | 159                                           |
| 4                                                    | 2                    | 95.8                    | 7                        | 1672                             | -                                | 480                                           |
| 5                                                    | 2                    | 79.6                    | 8                        | 920                              | -                                | 387                                           |
| 6                                                    | 2                    | 88.9                    | 11                       | 1779                             | -                                | 5                                             |
| 7                                                    | 2                    | 81.4                    | 8                        | 1645                             | -                                | 201                                           |
| 8                                                    | 2                    | 92                      | 6                        | 1454                             | -                                | 80                                            |
| 9                                                    | 3                    | 96                      | 13                       | 1518                             | 1121                             | 192                                           |
| 10                                                   | 2                    | 65.6                    | 11                       | 1798                             | -                                | 349                                           |
| 11                                                   | 2                    | 98.7                    | 5                        | 1360                             | -                                | 416                                           |
| 12                                                   | 2                    | 52.9                    | 15                       | 1140                             | -                                | 652                                           |
| 13                                                   | 2                    | 76.5                    | 8                        | 1032                             | -                                | 92                                            |
| 14                                                   | 3                    | 73.8                    | 18                       | 1719                             | 1383                             | 502                                           |
| 15                                                   | 3                    | 83.7                    | 10                       | 1270                             | 1216                             | 343                                           |
| 16                                                   | 2                    | 89.6                    | 10                       | 1141                             | -                                | 108                                           |
| 17                                                   | 2                    | 67.2                    | 20                       | 1455                             | -                                | 272                                           |
| 18                                                   | 3                    | 55.7                    | 14                       | 1444                             | 1475                             | 566                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| <b>Trail Number</b>                                  |                      |                         | 12                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 19                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5503                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 2                    | 70.6                    | 15                       | 1040                             | -                                | 575                                           |
| 2                                                    | 2                    | 72.9                    | 13                       | 1460                             | -                                | 178                                           |
| 3                                                    | 3                    | 88.9                    | 5                        | 1250                             | 1629                             | 191                                           |
| 4                                                    | 3                    | 60.3                    | 20                       | 1757                             | 1822                             | 468                                           |
| 5                                                    | 3                    | 92.1                    | 19                       | 1845                             | 1198                             | 476                                           |
| 6                                                    | 1                    | 73                      | 5                        | -                                | -                                | 532                                           |
| 7                                                    | 1                    | 50.4                    | 15                       | -                                | -                                | 69                                            |
| 8                                                    | 1                    | 66.4                    | 10                       | -                                | -                                | 333                                           |
| 9                                                    | 1                    | 79.1                    | 18                       | -                                | -                                | 437                                           |
| 10                                                   | 1                    | 71.6                    | 20                       | -                                | -                                | 424                                           |
| 11                                                   | 2                    | 95.6                    | 13                       | 1229                             | -                                | 498                                           |
| 12                                                   | 1                    | 74.4                    | 9                        | -                                | -                                | 363                                           |
| 13                                                   | 3                    | 55.6                    | 17                       | 1263                             | 1724                             | 123                                           |
| 14                                                   | 2                    | 78.3                    | 13                       | 1507                             | -                                | 37                                            |
| 15                                                   | 3                    | 54.1                    | 13                       | 1325                             | 1249                             | 192                                           |
| 16                                                   | 2                    | 67.1                    | 18                       | 1584                             | -                                | 311                                           |
| 17                                                   | 2                    | 65.8                    | 9                        | 1195                             | -                                | 243                                           |
| 18                                                   | 2                    | 50.1                    | 12                       | 1755                             | -                                | 48                                            |
| 19                                                   | 2                    | 87.7                    | 18                       | 1359                             | -                                | 180                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| <b>Trail Number</b>                                  |                      |                         | 13                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 20                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5504                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 3                    | 79.5                    | 7                        | 1808                             | 1550                             | 274                                           |
| 2                                                    | 2                    | 76.7                    | 20                       | 1632                             | -                                | 573                                           |
| 3                                                    | 3                    | 85.9                    | 12                       | 1305                             | 1496                             | 18                                            |
| 4                                                    | 3                    | 86.6                    | 14                       | 968                              | 1172                             | 133                                           |
| 5                                                    | 2                    | 74.9                    | 14                       | 1348                             | -                                | 48                                            |
| 6                                                    | 3                    | 82.2                    | 20                       | 1692                             | 1310                             | 156                                           |
| 7                                                    | 2                    | 53.9                    | 13                       | 1342                             | -                                | 45                                            |
| 8                                                    | 3                    | 62.7                    | 15                       | 1839                             | 1651                             | 76                                            |
| 9                                                    | 2                    | 86.2                    | 6                        | 1165                             | -                                | 91                                            |
| 10                                                   | 1                    | 63.1                    | 11                       | -                                | -                                | 391                                           |
| 11                                                   | 2                    | 82.4                    | 6                        | 1416                             | -                                | 107                                           |
| 12                                                   | 1                    | 95.8                    | 18                       | -                                | -                                | 248                                           |
| 13                                                   | 2                    | 75.7                    | 9                        | 993                              | -                                | 482                                           |
| 14                                                   | 3                    | 70.1                    | 18                       | 1563                             | 1020                             | 354                                           |
| 15                                                   | 3                    | 85.8                    | 13                       | 1420                             | 1084                             | 446                                           |
| 16                                                   | 1                    | 63.2                    | 7                        | -                                | -                                | 265                                           |
| 17                                                   | 1                    | 75.1                    | 11                       | -                                | -                                | 147                                           |
| 18                                                   | 2                    | 69.5                    | 5                        | 1802                             | -                                | 256                                           |
| 19                                                   | 1                    | 51.8                    | 19                       | -                                | -                                | 422                                           |
| 20                                                   | 2                    | 62.3                    | 5                        | 1449                             | -                                | 304                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| <b>Trail Number</b>                                  |                      |                         | 14                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 8                        |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5505                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 3                    | 74.9                    | 5                        | 1314                             | 1466                             | 1289                                          |
| 2                                                    | 2                    | 83.9                    | 19                       | 1442                             | -                                | 1436                                          |
| 3                                                    | 2                    | 55.8                    | 6                        | 1147                             | -                                | 240                                           |
| 4                                                    | 2                    | 59.4                    | 6                        | 1490                             | -                                | 1455                                          |
| 5                                                    | 2                    | 78.2                    | 15                       | 1665                             | -                                | 1312                                          |
| 6                                                    | 2                    | 57.3                    | 15                       | 1357                             | -                                | 264                                           |
| 7                                                    | 2                    | 76.2                    | 11                       | 1651                             | -                                | 255                                           |
| 8                                                    | 3                    | 59                      | 7                        | 1460                             | 1109                             | 1410                                          |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| Trail Number                                  |               |                  | 15                |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 9                 |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5506              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 3             | 77.7             | 19                | 1046                      | 1568                      | 17                                     |
| 2                                             | 2             | 98.2             | 20                | 1628                      | -                         | 877                                    |
| 3                                             | 2             | 95.3             | 8                 | 1540                      | -                         | 1066                                   |
| 4                                             | 2             | 78.8             | 15                | 1341                      | -                         | 822                                    |
| 5                                             | 2             | 52.8             | 20                | 988                       | -                         | 1020                                   |
| 6                                             | 2             | 65.2             | 9                 | 1480                      | -                         | 602                                    |
| 7                                             | 2             | 99.5             | 10                | 1867                      | -                         | 884                                    |
| 8                                             | 2             | 79.5             | 13                | 1148                      | -                         | 342                                    |
| 9                                             | 3             | 50.6             | 13                | 1030                      | 1525                      | 1321                                   |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |



| Trail Number                                  |               |                  | 16                |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 10                |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5507              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 2             | 97.5             | 11                | 1357                      | -                         | 764                                    |
| 2                                             | 2             | 91.8             | 13                | 1896                      | -                         | 298                                    |
| 3                                             | 1             | 78.5             | 5                 | -                         | -                         | 1117                                   |
| 4                                             | 1             | 60.1             | 11                | -                         | -                         | 1069                                   |
| 5                                             | 2             | 96.2             | 10                | 975                       | -                         | 1157                                   |
| 6                                             | 2             | 56.6             | 18                | 1626                      | -                         | 701                                    |
| 7                                             | 1             | 77.1             | 20                | -                         | -                         | 323                                    |
| 8                                             | 2             | 96.3             | 8                 | 1682                      | -                         | 307                                    |
| 9                                             | 2             | 52.2             | 13                | 1017                      | -                         | 217                                    |
| 10                                            | 1             | 92.8             | 15                | -                         | -                         | 316                                    |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |



| Trail Number                                  |               |                  | 17                |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 11                |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5508              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 2             | 57.3             | 8                 | 1220                      | -                         | 792                                    |
| 2                                             | 3             | 73.1             | 5                 | 1717                      | 1679                      | 845                                    |
| 3                                             | 2             | 54.1             | 14                | 967                       | -                         | 112                                    |
| 4                                             | 2             | 98.8             | 19                | 1137                      | -                         | 715                                    |
| 5                                             | 3             | 85.5             | 8                 | 1068                      | 960                       | 301                                    |
| 6                                             | 2             | 78.5             | 7                 | 1387                      | -                         | 827                                    |
| 7                                             | 2             | 77.9             | 12                | 1869                      | -                         | 506                                    |
| 8                                             | 1             | 81.9             | 10                | -                         | -                         | 549                                    |
| 9                                             | 1             | 50.4             | 9                 | -                         | -                         | 464                                    |
| 10                                            | 1             | 75.2             | 8                 | -                         | -                         | 790                                    |
| 11                                            | 2             | 92.7             | 7                 | 1770                      | -                         | 967                                    |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 0                                      |



| <b>Trail Number</b>                                  |                      |                         | 18                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 12                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5509                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 2                    | 79.1                    | 6                        | 1042                             | -                                | 793                                           |
| 2                                                    | 3                    | 55.7                    | 9                        | 1327                             | 1744                             | 159                                           |
| 3                                                    | 1                    | 95                      | 20                       | -                                | -                                | 734                                           |
| 4                                                    | 1                    | 88.4                    | 5                        | -                                | -                                | 523                                           |
| 5                                                    | 1                    | 92.3                    | 15                       | -                                | -                                | 546                                           |
| 6                                                    | 1                    | 93.6                    | 6                        | -                                | -                                | 208                                           |
| 7                                                    | 2                    | 95.1                    | 12                       | 1044                             | -                                | 894                                           |
| 8                                                    | 1                    | 59.5                    | 17                       | -                                | -                                | 666                                           |
| 9                                                    | 2                    | 98.7                    | 17                       | 1422                             | -                                | 640                                           |
| 10                                                   | 2                    | 65.1                    | 5                        | 1104                             | -                                | 320                                           |
| 11                                                   | 1                    | 60.2                    | 5                        | -                                | -                                | 60                                            |
| 12                                                   | 1                    | 88.7                    | 8                        | -                                | -                                | 823                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| <b>Trail Number</b>                                  |                      |                         | 19                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 13                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5510                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 1                    | 53.9                    | 10                       | -                                | -                                | 226                                           |
| 2                                                    | 2                    | 82.6                    | 13                       | 992                              | -                                | 854                                           |
| 3                                                    | 1                    | 87.7                    | 8                        | -                                | -                                | 303                                           |
| 4                                                    | 3                    | 69                      | 12                       | 1696                             | 1606                             | 528                                           |
| 5                                                    | 1                    | 68.6                    | 12                       | -                                | -                                | 220                                           |
| 6                                                    | 3                    | 76.5                    | 13                       | 1333                             | 1468                             | 389                                           |
| 7                                                    | 2                    | 95.8                    | 17                       | 1380                             | -                                | 57                                            |
| 8                                                    | 2                    | 55.6                    | 19                       | 1147                             | -                                | 334                                           |
| 9                                                    | 2                    | 78.6                    | 14                       | 1268                             | -                                | 128                                           |
| 10                                                   | 2                    | 65.4                    | 17                       | 1231                             | -                                | 913                                           |
| 11                                                   | 2                    | 76.6                    | 18                       | 1883                             | -                                | 518                                           |
| 12                                                   | 1                    | 93.2                    | 6                        | -                                | -                                | 596                                           |
| 13                                                   | 2                    | 50.2                    | 13                       | 1836                             | -                                | 61                                            |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| <b>Trail Number</b>                                  |                      |                         | 20                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 14                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5511                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 1                    | 60.9                    | 13                       | -                                | -                                | 142                                           |
| 2                                                    | 2                    | 81.7                    | 15                       | 1831                             | -                                | 522                                           |
| 3                                                    | 2                    | 78.5                    | 5                        | 1396                             | -                                | 790                                           |
| 4                                                    | 2                    | 98.2                    | 6                        | 1652                             | -                                | 3                                             |
| 5                                                    | 1                    | 64.1                    | 12                       | -                                | -                                | 414                                           |
| 6                                                    | 3                    | 53                      | 18                       | 1862                             | 1902                             | 157                                           |
| 7                                                    | 2                    | 62.3                    | 15                       | 1490                             | -                                | 248                                           |
| 8                                                    | 2                    | 87                      | 11                       | 1411                             | -                                | 576                                           |
| 9                                                    | 2                    | 78.4                    | 8                        | 1090                             | -                                | 737                                           |
| 10                                                   | 2                    | 87.2                    | 7                        | 967                              | -                                | 343                                           |
| 11                                                   | 3                    | 71                      | 13                       | 1662                             | 1841                             | 105                                           |
| 12                                                   | 2                    | 77.2                    | 5                        | 1557                             | -                                | 601                                           |
| 13                                                   | 1                    | 94.4                    | 15                       | -                                | -                                | 108                                           |
| 14                                                   | 1                    | 90.6                    | 13                       | -                                | -                                | 506                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| <b>Trail Number</b>                                  |                      |                         | 21                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 15                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5512                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 3                    | 76.5                    | 8                        | 1870                             | 1326                             | 385                                           |
| 2                                                    | 2                    | 95.3                    | 13                       | 1162                             | -                                | 73                                            |
| 3                                                    | 3                    | 58.9                    | 9                        | 1586                             | 1909                             | 742                                           |
| 4                                                    | 2                    | 73.1                    | 13                       | 1460                             | -                                | 330                                           |
| 5                                                    | 2                    | 73.1                    | 12                       | 1488                             | -                                | 25                                            |
| 6                                                    | 2                    | 75.1                    | 5                        | 1331                             | -                                | 418                                           |
| 7                                                    | 3                    | 98.5                    | 11                       | 936                              | 1532                             | 214                                           |
| 8                                                    | 3                    | 72.5                    | 13                       | 1110                             | 1903                             | 387                                           |
| 9                                                    | 3                    | 67.4                    | 12                       | 1567                             | 1513                             | 80                                            |
| 10                                                   | 2                    | 76.1                    | 12                       | 1005                             | -                                | 277                                           |
| 11                                                   | 2                    | 94.3                    | 17                       | 1413                             | -                                | 314                                           |
| 12                                                   | 2                    | 72.8                    | 12                       | 1778                             | -                                | 66                                            |
| 13                                                   | 2                    | 90.9                    | 14                       | 1793                             | -                                | 147                                           |
| 14                                                   | 3                    | 94.8                    | 11                       | 1012                             | 1742                             | 441                                           |
| 15                                                   | 3                    | 95                      | 12                       | 912                              | 1641                             | 609                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| <b>Trail Number</b>                                  |                      |                         | 22                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 16                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5513                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 1                    | 96.7                    | 9                        | -                                | -                                | 308                                           |
| 2                                                    | 2                    | 78.3                    | 13                       | 1045                             | -                                | 27                                            |
| 3                                                    | 1                    | 56.5                    | 12                       | -                                | -                                | 74                                            |
| 4                                                    | 3                    | 88.5                    | 14                       | 1119                             | 1020                             | 629                                           |
| 5                                                    | 2                    | 62.4                    | 9                        | 1436                             | -                                | 548                                           |
| 6                                                    | 2                    | 78.2                    | 5                        | 1147                             | -                                | 341                                           |
| 7                                                    | 3                    | 76.8                    | 14                       | 1069                             | 1575                             | 360                                           |
| 8                                                    | 2                    | 91.6                    | 18                       | 978                              | -                                | 602                                           |
| 9                                                    | 2                    | 93.7                    | 5                        | 1130                             | -                                | 623                                           |
| 10                                                   | 2                    | 97.4                    | 8                        | 1100                             | -                                | 256                                           |
| 11                                                   | 3                    | 90.1                    | 6                        | 1629                             | 1375                             | 108                                           |
| 12                                                   | 2                    | 79.9                    | 18                       | 1809                             | -                                | 183                                           |
| 13                                                   | 2                    | 83                      | 10                       | 1370                             | -                                | 477                                           |
| 14                                                   | 2                    | 89.1                    | 13                       | 1239                             | -                                | 484                                           |
| 15                                                   | 2                    | 58.3                    | 8                        | 1321                             | -                                | 276                                           |
| 16                                                   | 1                    | 85.2                    | 13                       | -                                | -                                | 22                                            |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| <b>Trail Number</b>                                  |                      |                         | 23                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 17                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5514                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 3                    | 60                      | 10                       | 1097                             | 1748                             | 56                                            |
| 2                                                    | 3                    | 66.3                    | 13                       | 1391                             | 1430                             | 421                                           |
| 3                                                    | 2                    | 88.5                    | 15                       | 1040                             | -                                | 583                                           |
| 4                                                    | 2                    | 72.1                    | 8                        | 1526                             | -                                | 161                                           |
| 5                                                    | 1                    | 72.3                    | 8                        | -                                | -                                | 450                                           |
| 6                                                    | 2                    | 67.3                    | 7                        | 1022                             | -                                | 48                                            |
| 7                                                    | 2                    | 56.1                    | 12                       | 1325                             | -                                | 661                                           |
| 8                                                    | 1                    | 83.5                    | 11                       | -                                | -                                | 695                                           |
| 9                                                    | 3                    | 99.4                    | 13                       | 1490                             | 938                              | 405                                           |
| 10                                                   | 1                    | 54.2                    | 12                       | -                                | -                                | 126                                           |
| 11                                                   | 3                    | 92.7                    | 17                       | 1251                             | 1631                             | 365                                           |
| 12                                                   | 3                    | 95.1                    | 17                       | 1741                             | 1162                             | 57                                            |
| 13                                                   | 2                    | 84                      | 9                        | 1597                             | -                                | 167                                           |
| 14                                                   | 1                    | 68.5                    | 18                       | -                                | -                                | 512                                           |
| 15                                                   | 1                    | 76.5                    | 20                       | -                                | -                                | 185                                           |
| 16                                                   | 3                    | 86.6                    | 11                       | 1774                             | 1875                             | 457                                           |
| 17                                                   | 2                    | 62.2                    | 9                        | 1563                             | -                                | 492                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| <b>Trail Number</b>                                  |                      |                         | 24                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 18                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5515                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 1                    | 86.6                    | 19                       | -                                | -                                | 621                                           |
| 2                                                    | 2                    | 95.3                    | 17                       | 926                              | -                                | 128                                           |
| 3                                                    | 1                    | 76.2                    | 12                       | -                                | -                                | 251                                           |
| 4                                                    | 3                    | 71.4                    | 19                       | 1287                             | 1404                             | 269                                           |
| 5                                                    | 3                    | 51.7                    | 12                       | 1564                             | 1339                             | 633                                           |
| 6                                                    | 2                    | 77                      | 5                        | 1899                             | -                                | 615                                           |
| 7                                                    | 1                    | 87.5                    | 12                       | -                                | -                                | 375                                           |
| 8                                                    | 3                    | 59                      | 17                       | 1327                             | 1615                             | 610                                           |
| 9                                                    | 2                    | 78.3                    | 15                       | 1551                             | -                                | 548                                           |
| 10                                                   | 2                    | 89.7                    | 5                        | 1718                             | -                                | 456                                           |
| 11                                                   | 2                    | 92.1                    | 7                        | 1403                             | -                                | 12                                            |
| 12                                                   | 2                    | 97.3                    | 14                       | 1338                             | -                                | 596                                           |
| 13                                                   | 3                    | 80.3                    | 20                       | 1354                             | 1563                             | 484                                           |
| 14                                                   | 1                    | 98.2                    | 8                        | -                                | -                                | 428                                           |
| 15                                                   | 3                    | 94.4                    | 13                       | 1795                             | 1829                             | 512                                           |
| 16                                                   | 2                    | 90.4                    | 13                       | 1105                             | -                                | 342                                           |
| 17                                                   | 2                    | 73.6                    | 19                       | 1787                             | -                                | 292                                           |
| 18                                                   | 1                    | 82.9                    | 7                        | -                                | -                                | 618                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 0                                             |



| <b>Trail Number</b>                                  |                      |                         | 25                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 19                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5516                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 1                    | 90                      | 18                       | -                                | -                                | 173                                           |
| 2                                                    | 1                    | 65.3                    | 19                       | -                                | -                                | 245                                           |
| 3                                                    | 2                    | 82.6                    | 10                       | 1756                             | -                                | 127                                           |
| 4                                                    | 2                    | 93.9                    | 18                       | 1557                             | -                                | 287                                           |
| 5                                                    | 2                    | 50.5                    | 13                       | 1479                             | -                                | 282                                           |
| 6                                                    | 1                    | 68                      | 7                        | -                                | -                                | 176                                           |
| 7                                                    | 3                    | 88.4                    | 11                       | 1244                             | 1076                             | 568                                           |
| 8                                                    | 3                    | 66.8                    | 11                       | 1288                             | 1909                             | 448                                           |
| 9                                                    | 2                    | 88                      | 12                       | 1450                             | -                                | 527                                           |
| 10                                                   | 3                    | 51.1                    | 6                        | 1797                             | 1935                             | 195                                           |
| 11                                                   | 2                    | 93.8                    | 13                       | 1073                             | -                                | 184                                           |
| 12                                                   | 1                    | 83.5                    | 10                       | -                                | -                                | 506                                           |
| 13                                                   | 2                    | 96.9                    | 12                       | 1047                             | -                                | 267                                           |
| 14                                                   | 3                    | 87.2                    | 18                       | 1521                             | 1450                             | 243                                           |
| 15                                                   | 2                    | 60.1                    | 8                        | 1545                             | -                                | 291                                           |
| 16                                                   | 3                    | 98                      | 10                       | 1842                             | 1402                             | 554                                           |
| 17                                                   | 3                    | 57                      | 19                       | 1665                             | 1732                             | 143                                           |
| 18                                                   | 1                    | 74.3                    | 14                       | -                                | -                                | 31                                            |
| 19                                                   | 2                    | 57.8                    | 10                       | 1576                             | -                                | 609                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| <b>Trail Number</b>                                  |                      |                         | 26                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 20                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5517                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 2                    | 92.8                    | 9                        | 1222                             | -                                | 531                                           |
| 2                                                    | 2                    | 52.4                    | 8                        | 1547                             | -                                | 168                                           |
| 3                                                    | 3                    | 56.8                    | 7                        | 1158                             | 1184                             | 193                                           |
| 4                                                    | 1                    | 91.2                    | 7                        | -                                | -                                | 565                                           |
| 5                                                    | 3                    | 61.2                    | 10                       | 1558                             | 1664                             | 387                                           |
| 6                                                    | 3                    | 62                      | 7                        | 1518                             | 1656                             | 391                                           |
| 7                                                    | 2                    | 69                      | 5                        | 1531                             | -                                | 327                                           |
| 8                                                    | 2                    | 67.3                    | 18                       | 1064                             | -                                | 25                                            |
| 9                                                    | 1                    | 94.1                    | 5                        | -                                | -                                | 78                                            |
| 10                                                   | 2                    | 76                      | 17                       | 1190                             | -                                | 222                                           |
| 11                                                   | 2                    | 81.9                    | 12                       | 1815                             | -                                | 96                                            |
| 12                                                   | 2                    | 57.9                    | 8                        | 1594                             | -                                | 277                                           |
| 13                                                   | 3                    | 68.3                    | 19                       | 1427                             | 1540                             | 41                                            |
| 14                                                   | 2                    | 53.3                    | 7                        | 1713                             | -                                | 48                                            |
| 15                                                   | 2                    | 85.3                    | 15                       | 1136                             | -                                | 48                                            |
| 16                                                   | 1                    | 65.3                    | 20                       | -                                | -                                | 57                                            |
| 17                                                   | 3                    | 79.8                    | 20                       | 923                              | 1259                             | 48                                            |
| 18                                                   | 2                    | 56.9                    | 20                       | 1357                             | -                                | 483                                           |
| 19                                                   | 2                    | 93                      | 9                        | 1686                             | -                                | 73                                            |
| 20                                                   | 2                    | 82.8                    | 10                       | 944                              | -                                | 352                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| Trail Number                                  |               |                  | 27                |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 8                 |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5518              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 3             | 50.9             | 11                | 1106                      | 1077                      | 1293                                   |
| 2                                             | 2             | 77.8             | 18                | 1836                      | -                         | 1235                                   |
| 3                                             | 3             | 60.7             | 5                 | 1069                      | 1635                      | 1092                                   |
| 4                                             | 2             | 77.2             | 13                | 1916                      | -                         | 1343                                   |
| 5                                             | 2             | 91.6             | 13                | 1465                      | -                         | 1466                                   |
| 6                                             | 2             | 56.8             | 17                | 1783                      | -                         | 376                                    |
| 7                                             | 1             | 59.5             | 20                | -                         | -                         | 131                                    |
| 8                                             | 1             | 66.5             | 12                | -                         | -                         | 1024                                   |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |



| Trail Number                                  |               |                  | 28                |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 9                 |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5519              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 2             | 72               | 9                 | 1092                      | -                         | 965                                    |
| 2                                             | 2             | 89.2             | 6                 | 1550                      | -                         | 1226                                   |
| 3                                             | 1             | 81.2             | 12                | -                         | -                         | 277                                    |
| 4                                             | 2             | 80.6             | 15                | 1616                      | -                         | 458                                    |
| 5                                             | 2             | 62.8             | 10                | 1812                      | -                         | 748                                    |
| 6                                             | 1             | 71               | 8                 | -                         | -                         | 434                                    |
| 7                                             | 2             | 69.3             | 6                 | 1027                      | -                         | 1111                                   |
| 8                                             | 2             | 77.2             | 13                | 1076                      | -                         | 638                                    |
| 9                                             | 2             | 65.4             | 5                 | 1582                      | -                         | 278                                    |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |



| Trail Number                                  |               |                  | 29                |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 10                |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5520              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 1             | 51.5             | 19                | -                         | -                         | 151                                    |
| 2                                             | 1             | 82.3             | 13                | -                         | -                         | 1071                                   |
| 3                                             | 3             | 78.3             | 8                 | 1115                      | 1740                      | 646                                    |
| 4                                             | 2             | 99               | 14                | 1101                      | -                         | 709                                    |
| 5                                             | 3             | 98.8             | 7                 | 1819                      | 945                       | 556                                    |
| 6                                             | 2             | 80.9             | 19                | 922                       | -                         | 567                                    |
| 7                                             | 2             | 64               | 12                | 953                       | -                         | 581                                    |
| 8                                             | 1             | 79               | 20                | -                         | -                         | 798                                    |
| 9                                             | 1             | 68               | 8                 | -                         | -                         | 112                                    |
| 10                                            | 2             | 50.4             | 13                | 1587                      | -                         | 26                                     |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |



| Trail Number                                  |               |                  | 30                |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 11                |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5521              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 3             | 57.8             | 5                 | 1324                      | 1716                      | 82                                     |
| 2                                             | 2             | 70.1             | 20                | 1733                      | -                         | 587                                    |
| 3                                             | 2             | 95.2             | 13                | 1188                      | -                         | 789                                    |
| 4                                             | 3             | 84.6             | 20                | 1042                      | 1259                      | 1021                                   |
| 5                                             | 3             | 96.5             | 7                 | 1329                      | 1596                      | 16                                     |
| 6                                             | 2             | 84.3             | 15                | 1606                      | -                         | 708                                    |
| 7                                             | 3             | 53.5             | 19                | 1783                      | 1458                      | 738                                    |
| 8                                             | 3             | 74.9             | 5                 | 1599                      | 1891                      | 466                                    |
| 9                                             | 3             | 53.8             | 7                 | 1494                      | 1467                      | 252                                    |
| 10                                            | 2             | 60.5             | 14                | 1319                      | -                         | 464                                    |
| 11                                            | 1             | 73.3             | 10                | -                         | -                         | 845                                    |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |

**Type 6 Radar Statistical Performance**

| Trail #                  | Test Freq. (MHz) | Pulses / Hop | Pulse Width (us) | PRI (us) | 1=Detection<br>0=No Detection |
|--------------------------|------------------|--------------|------------------|----------|-------------------------------|
| 1                        | 5510             | 9            | 1                | 333      | 1                             |
| 2                        | 5510             | 9            | 1                | 333      | 1                             |
| 3                        | 5510             | 9            | 1                | 333      | 1                             |
| 4                        | 5510             | 9            | 1                | 333      | 1                             |
| 5                        | 5510             | 9            | 1                | 333      | 1                             |
| 6                        | 5510             | 9            | 1                | 333      | 1                             |
| 7                        | 5510             | 9            | 1                | 333      | 1                             |
| 8                        | 5510             | 9            | 1                | 333      | 1                             |
| 9                        | 5510             | 9            | 1                | 333      | 1                             |
| 10                       | 5510             | 9            | 1                | 333      | 1                             |
| 11                       | 5510             | 9            | 1                | 333      | 1                             |
| 12                       | 5510             | 9            | 1                | 333      | 0                             |
| 13                       | 5510             | 9            | 1                | 333      | 1                             |
| 14                       | 5510             | 9            | 1                | 333      | 1                             |
| 15                       | 5510             | 9            | 1                | 333      | 1                             |
| 16                       | 5510             | 9            | 1                | 333      | 1                             |
| 17                       | 5510             | 9            | 1                | 333      | 1                             |
| 18                       | 5510             | 9            | 1                | 333      | 1                             |
| 19                       | 5510             | 9            | 1                | 333      | 1                             |
| 20                       | 5510             | 9            | 1                | 333      | 0                             |
| 21                       | 5510             | 9            | 1                | 333      | 1                             |
| 22                       | 5510             | 9            | 1                | 333      | 1                             |
| 23                       | 5510             | 9            | 1                | 333      | 1                             |
| 24                       | 5510             | 9            | 1                | 333      | 1                             |
| 25                       | 5510             | 9            | 1                | 333      | 1                             |
| 26                       | 5510             | 9            | 1                | 333      | 1                             |
| 27                       | 5510             | 9            | 1                | 333      | 1                             |
| 28                       | 5510             | 9            | 1                | 333      | 1                             |
| 29                       | 5510             | 9            | 1                | 333      | 1                             |
| 30                       | 5510             | 9            | 1                | 333      | 1                             |
| Detection Percentage (%) |                  |              |                  |          | 93.33                         |
| Limit                    |                  |              |                  |          | 70%                           |
| <b>Test Result</b>       |                  |              |                  |          | <b>Complied</b>               |



**Modulation Mode: 802.11ac (VHT80)**

**Type 1 Radar Statistical Performance**

| Trail #                  | Test Freq. (MHz) | Pulse Repetition<br>Frequency Number | Pulse Repetition<br>Frequency<br>(Pulse Per Second) | PRI (us) | 1=Detection<br>0=No Detection |
|--------------------------|------------------|--------------------------------------|-----------------------------------------------------|----------|-------------------------------|
| 1                        | 5516             | 1                                    | 1930.5                                              | 518      | 1                             |
| 2                        | 5517             | 23                                   | 326.2                                               | 3066     | 1                             |
| 3                        | 5518             | 19                                   | 1139.0                                              | 878      | 1                             |
| 4                        | 5519             | 12                                   | 1355.0                                              | 738      | 1                             |
| 5                        | 5520             | 4                                    | 1730.1                                              | 578      | 1                             |
| 6                        | 5521             | 8                                    | 1519.8                                              | 658      | 1                             |
| 7                        | 5522             | 15                                   | 1253.1                                              | 798      | 1                             |
| 8                        | 5523             | 6                                    | 1618.1                                              | 618      | 1                             |
| 9                        | 5524             | 14                                   | 1285.3                                              | 778      | 1                             |
| 10                       | 5525             | 3                                    | 1792.1                                              | 558      | 1                             |
| 11                       | 5526             | 13                                   | 1319.3                                              | 758      | 0                             |
| 12                       | 5527             | 9                                    | 1474.9                                              | 678      | 1                             |
| 13                       | 5528             | 7                                    | 1567.4                                              | 638      | 1                             |
| 14                       | 5529             | 17                                   | 1193.3                                              | 838      | 1                             |
| 15                       | 5530             | 10                                   | 1432.7                                              | 698      | 1                             |
| 16                       | 5531             | -                                    | 1692.0                                              | 591      | 1                             |
| 17                       | 5532             | -                                    | 328.1                                               | 3048     | 1                             |
| 18                       | 5533             | -                                    | 373.4                                               | 2678     | 1                             |
| 19                       | 5534             | -                                    | 574.4                                               | 1741     | 1                             |
| 20                       | 5535             | -                                    | 1216.5                                              | 822      | 1                             |
| 21                       | 5536             | -                                    | 801.3                                               | 1248     | 1                             |
| 22                       | 5537             | -                                    | 488.5                                               | 2047     | 1                             |
| 23                       | 5538             | -                                    | 956.0                                               | 1046     | 1                             |
| 24                       | 5539             | -                                    | 517.6                                               | 1932     | 1                             |
| 25                       | 5540             | -                                    | 1422.5                                              | 703      | 1                             |
| 26                       | 5541             | -                                    | 542.0                                               | 1845     | 1                             |
| 27                       | 5542             | -                                    | 741.3                                               | 1349     | 1                             |
| 28                       | 5543             | -                                    | 881.8                                               | 1134     | 1                             |
| 29                       | 5544             | -                                    | 427.4                                               | 2340     | 1                             |
| 30                       | 5545             | -                                    | 628.9                                               | 1590     | 0                             |
| Detection Percentage (%) |                  |                                      |                                                     |          | 93.33                         |
| Limit                    |                  |                                      |                                                     |          | 60%                           |
| <b>Test Result</b>       |                  |                                      |                                                     |          | <b>Complied</b>               |

**Type 2 Radar Statistical Performance**

| Trail #                  | Test Freq. (MHz) | Pulse Width (us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|------------------|------------------|----------|----------------|-------------------------------|
| 1                        | 5516             | 2.6              | 221      | 23             | 1                             |
| 2                        | 5517             | 4.6              | 198      | 27             | 1                             |
| 3                        | 5518             | 1.1              | 184      | 29             | 1                             |
| 4                        | 5519             | 4.8              | 203      | 24             | 1                             |
| 5                        | 5520             | 2.4              | 162      | 25             | 0                             |
| 6                        | 5521             | 3.4              | 204      | 28             | 1                             |
| 7                        | 5522             | 2.3              | 170      | 27             | 1                             |
| 8                        | 5523             | 3.5              | 184      | 23             | 1                             |
| 9                        | 5524             | 4.9              | 150      | 27             | 1                             |
| 10                       | 5525             | 4.6              | 211      | 29             | 1                             |
| 11                       | 5526             | 2.9              | 158      | 23             | 1                             |
| 12                       | 5527             | 2.6              | 226      | 27             | 1                             |
| 13                       | 5528             | 1.6              | 204      | 26             | 1                             |
| 14                       | 5529             | 3.9              | 181      | 25             | 1                             |
| 15                       | 5530             | 4.6              | 202      | 24             | 1                             |
| 16                       | 5531             | 4.1              | 194      | 27             | 1                             |
| 17                       | 5532             | 2.3              | 193      | 28             | 1                             |
| 18                       | 5533             | 3.9              | 173      | 29             | 1                             |
| 19                       | 5534             | 4.3              | 188      | 23             | 0                             |
| 20                       | 5535             | 1.5              | 215      | 26             | 1                             |
| 21                       | 5536             | 4.9              | 227      | 27             | 1                             |
| 22                       | 5537             | 1.1              | 199      | 23             | 1                             |
| 23                       | 5538             | 4.5              | 155      | 29             | 1                             |
| 24                       | 5539             | 4.0              | 190      | 27             | 1                             |
| 25                       | 5540             | 2.4              | 151      | 23             | 1                             |
| 26                       | 5541             | 2.5              | 180      | 28             | 1                             |
| 27                       | 5542             | 2.5              | 228      | 23             | 0                             |
| 28                       | 5543             | 2.5              | 203      | 25             | 1                             |
| 29                       | 5544             | 1.5              | 188      | 25             | 1                             |
| 30                       | 5545             | 1.9              | 217      | 24             | 1                             |
| Detection Percentage (%) |                  |                  |          |                | 90.00                         |
| Limit                    |                  |                  |          |                | 60%                           |
| <b>Test Result</b>       |                  |                  |          |                | <b>Complied</b>               |

**Type 3 Radar Statistical Performance**

| Trail #                  | Test Freq. (MHz) | Pulse Width (us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|------------------|------------------|----------|----------------|-------------------------------|
| 1                        | 5516             | 8.0              | 205      | 16             | 1                             |
| 2                        | 5517             | 6.7              | 382      | 18             | 1                             |
| 3                        | 5518             | 8.6              | 418      | 16             | 1                             |
| 4                        | 5519             | 9.4              | 351      | 17             | 1                             |
| 5                        | 5520             | 7.4              | 383      | 18             | 1                             |
| 6                        | 5521             | 9.8              | 232      | 16             | 1                             |
| 7                        | 5522             | 9.1              | 377      | 17             | 1                             |
| 8                        | 5523             | 9.6              | 457      | 16             | 0                             |
| 9                        | 5524             | 8.0              | 471      | 18             | 1                             |
| 10                       | 5525             | 9.0              | 304      | 18             | 1                             |
| 11                       | 5526             | 8.0              | 316      | 17             | 1                             |
| 12                       | 5527             | 9.8              | 325      | 16             | 1                             |
| 13                       | 5528             | 8.0              | 409      | 17             | 1                             |
| 14                       | 5529             | 9.9              | 200      | 17             | 1                             |
| 15                       | 5530             | 8.8              | 458      | 16             | 1                             |
| 16                       | 5531             | 8.0              | 232      | 18             | 1                             |
| 17                       | 5532             | 8.3              | 250      | 16             | 1                             |
| 18                       | 5533             | 8.7              | 270      | 16             | 1                             |
| 19                       | 5534             | 7.7              | 350      | 17             | 1                             |
| 20                       | 5535             | 7.1              | 230      | 16             | 1                             |
| 21                       | 5536             | 7.3              | 416      | 18             | 1                             |
| 22                       | 5537             | 7.6              | 498      | 18             | 1                             |
| 23                       | 5538             | 7.3              | 286      | 17             | 1                             |
| 24                       | 5539             | 7.3              | 287      | 16             | 1                             |
| 25                       | 5540             | 7.5              | 462      | 17             | 1                             |
| 26                       | 5541             | 6.2              | 300      | 17             | 0                             |
| 27                       | 5542             | 6.4              | 323      | 18             | 1                             |
| 28                       | 5543             | 7.1              | 420      | 16             | 1                             |
| 29                       | 5544             | 7.2              | 395      | 18             | 1                             |
| 30                       | 5545             | 8.4              | 377      | 16             | 1                             |
| Detection Percentage (%) |                  |                  |          |                | 93.33                         |
| Limit                    |                  |                  |          |                | 60%                           |
| <b>Test Result</b>       |                  |                  |          |                | <b>Complied</b>               |

**Type 4 Radar Statistical Performance**

| <b>Trail #</b>           | <b>Test Freq. (MHz)</b> | <b>Pulse Width (us)</b> | <b>PRI (us)</b> | <b>Pulses / Burst</b> | <b>1=Detection<br/>0=No Detection</b> |
|--------------------------|-------------------------|-------------------------|-----------------|-----------------------|---------------------------------------|
| 1                        | 5516                    | 18.0                    | 242             | 15                    | 1                                     |
| 2                        | 5517                    | 19.9                    | 279             | 12                    | 1                                     |
| 3                        | 5518                    | 12.9                    | 487             | 14                    | 1                                     |
| 4                        | 5519                    | 15.0                    | 452             | 13                    | 1                                     |
| 5                        | 5520                    | 16.3                    | 230             | 12                    | 0                                     |
| 6                        | 5521                    | 19.8                    | 238             | 13                    | 1                                     |
| 7                        | 5522                    | 18.2                    | 420             | 16                    | 1                                     |
| 8                        | 5523                    | 16.3                    | 452             | 15                    | 1                                     |
| 9                        | 5524                    | 14.2                    | 495             | 12                    | 1                                     |
| 10                       | 5525                    | 17.8                    | 228             | 16                    | 1                                     |
| 11                       | 5526                    | 19.1                    | 211             | 16                    | 0                                     |
| 12                       | 5527                    | 18.4                    | 283             | 15                    | 1                                     |
| 13                       | 5528                    | 11.8                    | 411             | 12                    | 1                                     |
| 14                       | 5529                    | 14.2                    | 284             | 13                    | 0                                     |
| 15                       | 5530                    | 13.9                    | 202             | 12                    | 1                                     |
| 16                       | 5531                    | 17.8                    | 340             | 14                    | 1                                     |
| 17                       | 5532                    | 15.6                    | 290             | 16                    | 1                                     |
| 18                       | 5533                    | 14.6                    | 250             | 16                    | 1                                     |
| 19                       | 5534                    | 14.4                    | 484             | 15                    | 0                                     |
| 20                       | 5535                    | 18.9                    | 387             | 13                    | 1                                     |
| 21                       | 5536                    | 11.1                    | 348             | 15                    | 1                                     |
| 22                       | 5537                    | 13.8                    | 291             | 16                    | 1                                     |
| 23                       | 5538                    | 14.3                    | 295             | 12                    | 1                                     |
| 24                       | 5539                    | 12.5                    | 300             | 12                    | 1                                     |
| 25                       | 5540                    | 12.5                    | 322             | 14                    | 1                                     |
| 26                       | 5541                    | 12.5                    | 383             | 13                    | 1                                     |
| 27                       | 5542                    | 15.7                    | 322             | 16                    | 0                                     |
| 28                       | 5543                    | 19.8                    | 469             | 13                    | 1                                     |
| 29                       | 5544                    | 18.6                    | 406             | 15                    | 1                                     |
| 30                       | 5545                    | 15.9                    | 238             | 14                    | 1                                     |
| Detection Percentage (%) |                         |                         |                 |                       | 83.33                                 |
| Limit                    |                         |                         |                 |                       | 60%                                   |
| <b>Test Result</b>       |                         |                         |                 |                       | <b>Complied</b>                       |



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

| <b>Radar Type #</b>         | <b>Detection Percentage (%)</b> |
|-----------------------------|---------------------------------|
| 1                           | 93.33                           |
| 2                           | 90.00                           |
| 3                           | 93.33                           |
| 4                           | 83.33                           |
| Aggregate (Radar Types 1-4) | 90.00                           |
| Limit                       | 80%                             |
| <b>Test Result</b>          | <b>Complied</b>                 |



**Type 5 Radar Statistical Performance**

| Trail #                  | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection | Trail # | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection | Trail # | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|-------------------------------|---------|---------------------|-------------------------------|---------|---------------------|-------------------------------|
| 1                        | 5490                | 1                             | 11      | 5520                | 1                             | 21      | 5550                | 1                             |
| 2                        | 5491                | 1                             | 12      | 5525                | 1                             | 22      | 5555                | 1                             |
| 3                        | 5492                | 1                             | 13      | 5528                | 1                             | 23      | 5560                | 1                             |
| 4                        | 5493                | 1                             | 14      | 5529                | 1                             | 24      | 5564                | 1                             |
| 5                        | 5494                | 1                             | 15      | 5530                | 1                             | 25      | 5565                | 1                             |
| 6                        | 5495                | 1                             | 16      | 5531                | 1                             | 26      | 5566                | 1                             |
| 7                        | 5500                | 1                             | 17      | 5532                | 1                             | 27      | 5567                | 1                             |
| 8                        | 5505                | 1                             | 18      | 5539                | 1                             | 28      | 5568                | 0                             |
| 9                        | 5510                | 1                             | 19      | 5540                | 1                             | 29      | 5569                | 0                             |
| 10                       | 5515                | 1                             | 20      | 5545                | 0                             | 30      | 5570                | 0                             |
| Detection Percentage (%) |                     |                               |         |                     |                               |         |                     | 86.67%                        |
| Limit                    |                     |                               |         |                     |                               |         |                     | 80%                           |
| <b>Test Result</b>       |                     |                               |         |                     |                               |         |                     | <b>Complied</b>               |



| <b>Trail Number</b>                                  |                      |                         | 1                        |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 8                        |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5490                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 1                    | 62.3                    | 8                        | -                                | -                                | 346                                           |
| 2                                                    | 2                    | 51.2                    | 15                       | 1745                             | -                                | 1205                                          |
| 3                                                    | 3                    | 93.6                    | 5                        | 957                              | 1634                             | 674                                           |
| 4                                                    | 3                    | 68.2                    | 12                       | 1668                             | 1573                             | 384                                           |
| 5                                                    | 3                    | 83.1                    | 8                        | 1188                             | 1888                             | 876                                           |
| 6                                                    | 1                    | 56.7                    | 18                       | -                                | -                                | 376                                           |
| 7                                                    | 2                    | 60.6                    | 18                       | 1874                             | -                                | 1409                                          |
| 8                                                    | 3                    | 75.5                    | 13                       | 1263                             | 1683                             | 1378                                          |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| <b>Trail Number</b>                                  |                      |                         | 2                        |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 9                        |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5491                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 1                    | 99.6                    | 13                       | -                                | -                                | 217                                           |
| 2                                                    | 2                    | 54.8                    | 15                       | 1727                             | -                                | 982                                           |
| 3                                                    | 3                    | 91.1                    | 15                       | 1120                             | 1826                             | 941                                           |
| 4                                                    | 2                    | 76.2                    | 7                        | 1638                             | -                                | 477                                           |
| 5                                                    | 1                    | 88.9                    | 13                       | -                                | -                                | 259                                           |
| 6                                                    | 1                    | 83                      | 9                        | -                                | -                                | 892                                           |
| 7                                                    | 1                    | 83.9                    | 12                       | -                                | -                                | 320                                           |
| 8                                                    | 2                    | 55.9                    | 15                       | 1613                             | -                                | 445                                           |
| 9                                                    | 1                    | 96.1                    | 13                       | -                                | -                                | 779                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| Trail Number                                  |               |                  | 3                 |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 10                |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5492              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 2             | 82               | 6                 | 1246                      | -                         | 1017                                   |
| 2                                             | 1             | 93.2             | 13                | -                         | -                         | 760                                    |
| 3                                             | 2             | 61.3             | 13                | 1175                      | -                         | 327                                    |
| 4                                             | 1             | 52.8             | 8                 | -                         | -                         | 824                                    |
| 5                                             | 3             | 70.6             | 19                | 929                       | 1076                      | 115                                    |
| 6                                             | 1             | 80.3             | 17                | -                         | -                         | 325                                    |
| 7                                             | 1             | 83.2             | 15                | -                         | -                         | 679                                    |
| 8                                             | 2             | 94               | 9                 | 1805                      | -                         | 888                                    |
| 9                                             | 2             | 67               | 8                 | 1486                      | -                         | 849                                    |
| 10                                            | 1             | 56.4             | 20                | -                         | -                         | 813                                    |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |



| <b>Trail Number</b>                                  |                      |                         | 4                        |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 11                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5493                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 3                    | 90.5                    | 8                        | 1149                             | 1612                             | 35                                            |
| 2                                                    | 3                    | 54.5                    | 8                        | 1094                             | 1525                             | 1014                                          |
| 3                                                    | 1                    | 57.1                    | 18                       | -                                | -                                | 827                                           |
| 4                                                    | 2                    | 98.6                    | 20                       | 1292                             | -                                | 83                                            |
| 5                                                    | 2                    | 62.9                    | 12                       | 1433                             | -                                | 676                                           |
| 6                                                    | 1                    | 71.1                    | 15                       | -                                | -                                | 708                                           |
| 7                                                    | 1                    | 96.7                    | 5                        | -                                | -                                | 711                                           |
| 8                                                    | 1                    | 64.3                    | 5                        | -                                | -                                | 484                                           |
| 9                                                    | 3                    | 61.2                    | 8                        | 1075                             | 1524                             | 444                                           |
| 10                                                   | 2                    | 79.2                    | 13                       | 1877                             | -                                | 797                                           |
| 11                                                   | 2                    | 79.3                    | 20                       | 1313                             | -                                | 288                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| Trail Number                                  |               |                  | 5                 |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 12                |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5494              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 1             | 89.5             | 13                | -                         | -                         | 20                                     |
| 2                                             | 3             | 71.8             | 11                | 1446                      | 1549                      | 117                                    |
| 3                                             | 3             | 53.7             | 15                | 1100                      | 1517                      | 485                                    |
| 4                                             | 2             | 99.3             | 11                | 1571                      | -                         | 334                                    |
| 5                                             | 3             | 56.8             | 6                 | 1594                      | 1280                      | 468                                    |
| 6                                             | 1             | 97.4             | 11                | -                         | -                         | 213                                    |
| 7                                             | 2             | 67.6             | 13                | 1831                      | -                         | 14                                     |
| 8                                             | 3             | 77.1             | 8                 | 1683                      | 1337                      | 267                                    |
| 9                                             | 1             | 98.5             | 17                | -                         | -                         | 544                                    |
| 10                                            | 3             | 58.3             | 13                | 1924                      | 1829                      | 159                                    |
| 11                                            | 1             | 98.4             | 14                | -                         | -                         | 380                                    |
| 12                                            | 1             | 79.3             | 11                | -                         | -                         | 257                                    |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |



| Trail Number                                  |               |                  | 6                 |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 13                |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5495              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 2             | 53.8             | 14                | 1631                      | -                         | 768                                    |
| 2                                             | 1             | 90               | 17                | -                         | -                         | 530                                    |
| 3                                             | 3             | 87.2             | 18                | 1115                      | 1297                      | 157                                    |
| 4                                             | 2             | 82               | 11                | 1728                      | -                         | 892                                    |
| 5                                             | 3             | 69.8             | 7                 | 1641                      | 1779                      | 196                                    |
| 6                                             | 2             | 63.1             | 20                | 1836                      | -                         | 331                                    |
| 7                                             | 1             | 59.8             | 6                 | -                         | -                         | 495                                    |
| 8                                             | 3             | 78.5             | 19                | 941                       | 1921                      | 546                                    |
| 9                                             | 1             | 85.7             | 6                 | -                         | -                         | 219                                    |
| 10                                            | 3             | 67.7             | 9                 | 1834                      | 1450                      | 534                                    |
| 11                                            | 2             | 84.5             | 15                | 1376                      | -                         | 282                                    |
| 12                                            | 2             | 99.3             | 13                | 1570                      | -                         | 486                                    |
| 13                                            | 2             | 80.2             | 8                 | 1088                      | -                         | 67                                     |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |



| Trail Number                                  |               |                  | 7                 |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 14                |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5500              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 3             | 80.8             | 10                | 1061                      | 1124                      | 389                                    |
| 2                                             | 2             | 81               | 9                 | 1479                      | -                         | 234                                    |
| 3                                             | 2             | 87.6             | 17                | 1247                      | -                         | 577                                    |
| 4                                             | 2             | 94.7             | 18                | 1041                      | -                         | 572                                    |
| 5                                             | 2             | 78               | 18                | 1267                      | -                         | 313                                    |
| 6                                             | 1             | 95.5             | 14                | -                         | -                         | 52                                     |
| 7                                             | 2             | 97.6             | 15                | 1215                      | -                         | 57                                     |
| 8                                             | 3             | 88               | 9                 | 1349                      | 1598                      | 171                                    |
| 9                                             | 2             | 69.7             | 17                | 1711                      | -                         | 769                                    |
| 10                                            | 2             | 96.5             | 17                | 1431                      | -                         | 168                                    |
| 11                                            | 2             | 96.9             | 6                 | 1871                      | -                         | 124                                    |
| 12                                            | 3             | 66.4             | 10                | 1824                      | 1468                      | 766                                    |
| 13                                            | 1             | 78.8             | 10                | -                         | -                         | 537                                    |
| 14                                            | 3             | 87.6             | 6                 | 1080                      | 1159                      | 714                                    |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |



| <b>Trail Number</b>                                  |                      |                         | 8                        |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 15                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5505                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 2                    | 71.8                    | 14                       | 1432                             | -                                | 573                                           |
| 2                                                    | 2                    | 65.9                    | 19                       | 1762                             | -                                | 314                                           |
| 3                                                    | 2                    | 74.7                    | 6                        | 1754                             | -                                | 377                                           |
| 4                                                    | 3                    | 81.7                    | 5                        | 1133                             | 974                              | 216                                           |
| 5                                                    | 3                    | 57.8                    | 14                       | 1176                             | 1712                             | 129                                           |
| 6                                                    | 1                    | 80.6                    | 6                        | -                                | -                                | 341                                           |
| 7                                                    | 3                    | 99.3                    | 17                       | 1268                             | 1876                             | 165                                           |
| 8                                                    | 1                    | 79.8                    | 12                       | -                                | -                                | 618                                           |
| 9                                                    | 3                    | 83                      | 11                       | 990                              | 1738                             | 589                                           |
| 10                                                   | 3                    | 71.5                    | 11                       | 1473                             | 1255                             | 6                                             |
| 11                                                   | 1                    | 77.4                    | 11                       | -                                | -                                | 127                                           |
| 12                                                   | 2                    | 84.8                    | 12                       | 1390                             | -                                | 515                                           |
| 13                                                   | 2                    | 64.6                    | 12                       | 1653                             | -                                | 148                                           |
| 14                                                   | 2                    | 92.9                    | 12                       | 1881                             | -                                | 519                                           |
| 15                                                   | 1                    | 71.3                    | 6                        | -                                | -                                | 301                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| Trail Number                                  |               |                  | 9                 |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 16                |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5510              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 2             | 55.4             | 9                 | 1318                      | -                         | 383                                    |
| 2                                             | 2             | 80.8             | 18                | 1710                      | -                         | 534                                    |
| 3                                             | 1             | 88.8             | 9                 | -                         | -                         | 495                                    |
| 4                                             | 2             | 78               | 12                | 1818                      | -                         | 92                                     |
| 5                                             | 1             | 78.5             | 12                | -                         | -                         | 108                                    |
| 6                                             | 2             | 55               | 13                | 1219                      | -                         | 123                                    |
| 7                                             | 2             | 75.9             | 20                | 1004                      | -                         | 123                                    |
| 8                                             | 2             | 70.9             | 7                 | 1820                      | -                         | 546                                    |
| 9                                             | 2             | 71.7             | 18                | 1559                      | -                         | 476                                    |
| 10                                            | 2             | 73.9             | 19                | 1232                      | -                         | 235                                    |
| 11                                            | 1             | 59.2             | 20                | -                         | -                         | 424                                    |
| 12                                            | 1             | 55.7             | 9                 | -                         | -                         | 391                                    |
| 13                                            | 3             | 60.9             | 12                | 1144                      | 1370                      | 198                                    |
| 14                                            | 2             | 60.8             | 14                | 990                       | -                         | 16                                     |
| 15                                            | 3             | 60.6             | 19                | 1526                      | 1326                      | 695                                    |
| 16                                            | 2             | 89               | 5                 | 1029                      | -                         | 131                                    |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |



| <b>Trail Number</b>                                  |                      |                         | 10                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 17                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5515                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 2                    | 72.1                    | 14                       | 1119                             | -                                | 488                                           |
| 2                                                    | 3                    | 81.4                    | 13                       | 1142                             | 961                              | 451                                           |
| 3                                                    | 3                    | 92.9                    | 18                       | 991                              | 1147                             | 565                                           |
| 4                                                    | 3                    | 81.3                    | 18                       | 1793                             | 1369                             | 285                                           |
| 5                                                    | 3                    | 76.4                    | 20                       | 1005                             | 1793                             | 79                                            |
| 6                                                    | 1                    | 61.6                    | 18                       | -                                | -                                | 503                                           |
| 7                                                    | 1                    | 66.6                    | 19                       | -                                | -                                | 181                                           |
| 8                                                    | 1                    | 53.7                    | 12                       | -                                | -                                | 416                                           |
| 9                                                    | 2                    | 58                      | 8                        | 1477                             | -                                | 107                                           |
| 10                                                   | 2                    | 64                      | 18                       | 1791                             | -                                | 141                                           |
| 11                                                   | 2                    | 80.3                    | 12                       | 1304                             | -                                | 516                                           |
| 12                                                   | 3                    | 77.3                    | 5                        | 1039                             | 1668                             | 372                                           |
| 13                                                   | 2                    | 97.6                    | 11                       | 1593                             | -                                | 163                                           |
| 14                                                   | 1                    | 73                      | 6                        | -                                | -                                | 147                                           |
| 15                                                   | 3                    | 65.1                    | 8                        | 1097                             | 1927                             | 102                                           |
| 16                                                   | 2                    | 59.5                    | 13                       | 1569                             | -                                | 182                                           |
| 17                                                   | 1                    | 88.2                    | 19                       | -                                | -                                | 653                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| <b>Trail Number</b>                                  |                      |                         | 11                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 18                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5520                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 2                    | 56.1                    | 12                       | 1219                             | -                                | 273                                           |
| 2                                                    | 1                    | 83.3                    | 7                        | -                                | -                                | 298                                           |
| 3                                                    | 3                    | 79.6                    | 17                       | 1218                             | 1897                             | 159                                           |
| 4                                                    | 2                    | 95.8                    | 7                        | 1672                             | -                                | 480                                           |
| 5                                                    | 2                    | 79.6                    | 8                        | 920                              | -                                | 387                                           |
| 6                                                    | 2                    | 88.9                    | 11                       | 1779                             | -                                | 5                                             |
| 7                                                    | 2                    | 81.4                    | 8                        | 1645                             | -                                | 201                                           |
| 8                                                    | 2                    | 92                      | 6                        | 1454                             | -                                | 80                                            |
| 9                                                    | 3                    | 96                      | 13                       | 1518                             | 1121                             | 192                                           |
| 10                                                   | 2                    | 65.6                    | 11                       | 1798                             | -                                | 349                                           |
| 11                                                   | 2                    | 98.7                    | 5                        | 1360                             | -                                | 416                                           |
| 12                                                   | 2                    | 52.9                    | 15                       | 1140                             | -                                | 652                                           |
| 13                                                   | 2                    | 76.5                    | 8                        | 1032                             | -                                | 92                                            |
| 14                                                   | 3                    | 73.8                    | 18                       | 1719                             | 1383                             | 502                                           |
| 15                                                   | 3                    | 83.7                    | 10                       | 1270                             | 1216                             | 343                                           |
| 16                                                   | 2                    | 89.6                    | 10                       | 1141                             | -                                | 108                                           |
| 17                                                   | 2                    | 67.2                    | 20                       | 1455                             | -                                | 272                                           |
| 18                                                   | 3                    | 55.7                    | 14                       | 1444                             | 1475                             | 566                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| <b>Trail Number</b>                                  |                      |                         | 12                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 19                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5525                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 2                    | 70.6                    | 15                       | 1040                             | -                                | 575                                           |
| 2                                                    | 2                    | 72.9                    | 13                       | 1460                             | -                                | 178                                           |
| 3                                                    | 3                    | 88.9                    | 5                        | 1250                             | 1629                             | 191                                           |
| 4                                                    | 3                    | 60.3                    | 20                       | 1757                             | 1822                             | 468                                           |
| 5                                                    | 3                    | 92.1                    | 19                       | 1845                             | 1198                             | 476                                           |
| 6                                                    | 1                    | 73                      | 5                        | -                                | -                                | 532                                           |
| 7                                                    | 1                    | 50.4                    | 15                       | -                                | -                                | 69                                            |
| 8                                                    | 1                    | 66.4                    | 10                       | -                                | -                                | 333                                           |
| 9                                                    | 1                    | 79.1                    | 18                       | -                                | -                                | 437                                           |
| 10                                                   | 1                    | 71.6                    | 20                       | -                                | -                                | 424                                           |
| 11                                                   | 2                    | 95.6                    | 13                       | 1229                             | -                                | 498                                           |
| 12                                                   | 1                    | 74.4                    | 9                        | -                                | -                                | 363                                           |
| 13                                                   | 3                    | 55.6                    | 17                       | 1263                             | 1724                             | 123                                           |
| 14                                                   | 2                    | 78.3                    | 13                       | 1507                             | -                                | 37                                            |
| 15                                                   | 3                    | 54.1                    | 13                       | 1325                             | 1249                             | 192                                           |
| 16                                                   | 2                    | 67.1                    | 18                       | 1584                             | -                                | 311                                           |
| 17                                                   | 2                    | 65.8                    | 9                        | 1195                             | -                                | 243                                           |
| 18                                                   | 2                    | 50.1                    | 12                       | 1755                             | -                                | 48                                            |
| 19                                                   | 2                    | 87.7                    | 18                       | 1359                             | -                                | 180                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| <b>Trail Number</b>                                  |                      |                         | 13                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 20                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5528                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 3                    | 79.5                    | 7                        | 1808                             | 1550                             | 274                                           |
| 2                                                    | 2                    | 76.7                    | 20                       | 1632                             | -                                | 573                                           |
| 3                                                    | 3                    | 85.9                    | 12                       | 1305                             | 1496                             | 18                                            |
| 4                                                    | 3                    | 86.6                    | 14                       | 968                              | 1172                             | 133                                           |
| 5                                                    | 2                    | 74.9                    | 14                       | 1348                             | -                                | 48                                            |
| 6                                                    | 3                    | 82.2                    | 20                       | 1692                             | 1310                             | 156                                           |
| 7                                                    | 2                    | 53.9                    | 13                       | 1342                             | -                                | 45                                            |
| 8                                                    | 3                    | 62.7                    | 15                       | 1839                             | 1651                             | 76                                            |
| 9                                                    | 2                    | 86.2                    | 6                        | 1165                             | -                                | 91                                            |
| 10                                                   | 1                    | 63.1                    | 11                       | -                                | -                                | 391                                           |
| 11                                                   | 2                    | 82.4                    | 6                        | 1416                             | -                                | 107                                           |
| 12                                                   | 1                    | 95.8                    | 18                       | -                                | -                                | 248                                           |
| 13                                                   | 2                    | 75.7                    | 9                        | 993                              | -                                | 482                                           |
| 14                                                   | 3                    | 70.1                    | 18                       | 1563                             | 1020                             | 354                                           |
| 15                                                   | 3                    | 85.8                    | 13                       | 1420                             | 1084                             | 446                                           |
| 16                                                   | 1                    | 63.2                    | 7                        | -                                | -                                | 265                                           |
| 17                                                   | 1                    | 75.1                    | 11                       | -                                | -                                | 147                                           |
| 18                                                   | 2                    | 69.5                    | 5                        | 1802                             | -                                | 256                                           |
| 19                                                   | 1                    | 51.8                    | 19                       | -                                | -                                | 422                                           |
| 20                                                   | 2                    | 62.3                    | 5                        | 1449                             | -                                | 304                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| Trail Number                                  |               |                  | 14                |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 8                 |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5529              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 3             | 74.9             | 5                 | 1314                      | 1466                      | 1289                                   |
| 2                                             | 2             | 83.9             | 19                | 1442                      | -                         | 1436                                   |
| 3                                             | 2             | 55.8             | 6                 | 1147                      | -                         | 240                                    |
| 4                                             | 2             | 59.4             | 6                 | 1490                      | -                         | 1455                                   |
| 5                                             | 2             | 78.2             | 15                | 1665                      | -                         | 1312                                   |
| 6                                             | 2             | 57.3             | 15                | 1357                      | -                         | 264                                    |
| 7                                             | 2             | 76.2             | 11                | 1651                      | -                         | 255                                    |
| 8                                             | 3             | 59               | 7                 | 1460                      | 1109                      | 1410                                   |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |



| Trail Number                                  |               |                  | 15                |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 9                 |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5530              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 3             | 77.7             | 19                | 1046                      | 1568                      | 17                                     |
| 2                                             | 2             | 98.2             | 20                | 1628                      | -                         | 877                                    |
| 3                                             | 2             | 95.3             | 8                 | 1540                      | -                         | 1066                                   |
| 4                                             | 2             | 78.8             | 15                | 1341                      | -                         | 822                                    |
| 5                                             | 2             | 52.8             | 20                | 988                       | -                         | 1020                                   |
| 6                                             | 2             | 65.2             | 9                 | 1480                      | -                         | 602                                    |
| 7                                             | 2             | 99.5             | 10                | 1867                      | -                         | 884                                    |
| 8                                             | 2             | 79.5             | 13                | 1148                      | -                         | 342                                    |
| 9                                             | 3             | 50.6             | 13                | 1030                      | 1525                      | 1321                                   |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |



| <b>Trail Number</b>                                  |                      |                         | 16                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 10                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5531                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 2                    | 97.5                    | 11                       | 1357                             | -                                | 764                                           |
| 2                                                    | 2                    | 91.8                    | 13                       | 1896                             | -                                | 298                                           |
| 3                                                    | 1                    | 78.5                    | 5                        | -                                | -                                | 1117                                          |
| 4                                                    | 1                    | 60.1                    | 11                       | -                                | -                                | 1069                                          |
| 5                                                    | 2                    | 96.2                    | 10                       | 975                              | -                                | 1157                                          |
| 6                                                    | 2                    | 56.6                    | 18                       | 1626                             | -                                | 701                                           |
| 7                                                    | 1                    | 77.1                    | 20                       | -                                | -                                | 323                                           |
| 8                                                    | 2                    | 96.3                    | 8                        | 1682                             | -                                | 307                                           |
| 9                                                    | 2                    | 52.2                    | 13                       | 1017                             | -                                | 217                                           |
| 10                                                   | 1                    | 92.8                    | 15                       | -                                | -                                | 316                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| Trail Number                                  |               |                  | 17                |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 11                |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5532              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 2             | 57.3             | 8                 | 1220                      | -                         | 792                                    |
| 2                                             | 3             | 73.1             | 5                 | 1717                      | 1679                      | 845                                    |
| 3                                             | 2             | 54.1             | 14                | 967                       | -                         | 112                                    |
| 4                                             | 2             | 98.8             | 19                | 1137                      | -                         | 715                                    |
| 5                                             | 3             | 85.5             | 8                 | 1068                      | 960                       | 301                                    |
| 6                                             | 2             | 78.5             | 7                 | 1387                      | -                         | 827                                    |
| 7                                             | 2             | 77.9             | 12                | 1869                      | -                         | 506                                    |
| 8                                             | 1             | 81.9             | 10                | -                         | -                         | 549                                    |
| 9                                             | 1             | 50.4             | 9                 | -                         | -                         | 464                                    |
| 10                                            | 1             | 75.2             | 8                 | -                         | -                         | 790                                    |
| 11                                            | 2             | 92.7             | 7                 | 1770                      | -                         | 967                                    |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |



| Trail Number                                  |               |                  | 18                |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 12                |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5539              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 2             | 79.1             | 6                 | 1042                      | -                         | 793                                    |
| 2                                             | 3             | 55.7             | 9                 | 1327                      | 1744                      | 159                                    |
| 3                                             | 1             | 95               | 20                | -                         | -                         | 734                                    |
| 4                                             | 1             | 88.4             | 5                 | -                         | -                         | 523                                    |
| 5                                             | 1             | 92.3             | 15                | -                         | -                         | 546                                    |
| 6                                             | 1             | 93.6             | 6                 | -                         | -                         | 208                                    |
| 7                                             | 2             | 95.1             | 12                | 1044                      | -                         | 894                                    |
| 8                                             | 1             | 59.5             | 17                | -                         | -                         | 666                                    |
| 9                                             | 2             | 98.7             | 17                | 1422                      | -                         | 640                                    |
| 10                                            | 2             | 65.1             | 5                 | 1104                      | -                         | 320                                    |
| 11                                            | 1             | 60.2             | 5                 | -                         | -                         | 60                                     |
| 12                                            | 1             | 88.7             | 8                 | -                         | -                         | 823                                    |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |



| <b>Trail Number</b>                                  |                      |                         | 19                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 13                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5540                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 1                    | 53.9                    | 10                       | -                                | -                                | 226                                           |
| 2                                                    | 2                    | 82.6                    | 13                       | 992                              | -                                | 854                                           |
| 3                                                    | 1                    | 87.7                    | 8                        | -                                | -                                | 303                                           |
| 4                                                    | 3                    | 69                      | 12                       | 1696                             | 1606                             | 528                                           |
| 5                                                    | 1                    | 68.6                    | 12                       | -                                | -                                | 220                                           |
| 6                                                    | 3                    | 76.5                    | 13                       | 1333                             | 1468                             | 389                                           |
| 7                                                    | 2                    | 95.8                    | 17                       | 1380                             | -                                | 57                                            |
| 8                                                    | 2                    | 55.6                    | 19                       | 1147                             | -                                | 334                                           |
| 9                                                    | 2                    | 78.6                    | 14                       | 1268                             | -                                | 128                                           |
| 10                                                   | 2                    | 65.4                    | 17                       | 1231                             | -                                | 913                                           |
| 11                                                   | 2                    | 76.6                    | 18                       | 1883                             | -                                | 518                                           |
| 12                                                   | 1                    | 93.2                    | 6                        | -                                | -                                | 596                                           |
| 13                                                   | 2                    | 50.2                    | 13                       | 1836                             | -                                | 61                                            |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| Trail Number                                  |               |                  | 20                |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 14                |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5545              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 1             | 60.9             | 13                | -                         | -                         | 142                                    |
| 2                                             | 2             | 81.7             | 15                | 1831                      | -                         | 522                                    |
| 3                                             | 2             | 78.5             | 5                 | 1396                      | -                         | 790                                    |
| 4                                             | 2             | 98.2             | 6                 | 1652                      | -                         | 3                                      |
| 5                                             | 1             | 64.1             | 12                | -                         | -                         | 414                                    |
| 6                                             | 3             | 53               | 18                | 1862                      | 1902                      | 157                                    |
| 7                                             | 2             | 62.3             | 15                | 1490                      | -                         | 248                                    |
| 8                                             | 2             | 87               | 11                | 1411                      | -                         | 576                                    |
| 9                                             | 2             | 78.4             | 8                 | 1090                      | -                         | 737                                    |
| 10                                            | 2             | 87.2             | 7                 | 967                       | -                         | 343                                    |
| 11                                            | 3             | 71               | 13                | 1662                      | 1841                      | 105                                    |
| 12                                            | 2             | 77.2             | 5                 | 1557                      | -                         | 601                                    |
| 13                                            | 1             | 94.4             | 15                | -                         | -                         | 108                                    |
| 14                                            | 1             | 90.6             | 13                | -                         | -                         | 506                                    |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 0                                      |



| <b>Trail Number</b>                                  |                      |                         | 21                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 15                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5550                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 3                    | 76.5                    | 8                        | 1870                             | 1326                             | 385                                           |
| 2                                                    | 2                    | 95.3                    | 13                       | 1162                             | -                                | 73                                            |
| 3                                                    | 3                    | 58.9                    | 9                        | 1586                             | 1909                             | 742                                           |
| 4                                                    | 2                    | 73.1                    | 13                       | 1460                             | -                                | 330                                           |
| 5                                                    | 2                    | 73.1                    | 12                       | 1488                             | -                                | 25                                            |
| 6                                                    | 2                    | 75.1                    | 5                        | 1331                             | -                                | 418                                           |
| 7                                                    | 3                    | 98.5                    | 11                       | 936                              | 1532                             | 214                                           |
| 8                                                    | 3                    | 72.5                    | 13                       | 1110                             | 1903                             | 387                                           |
| 9                                                    | 3                    | 67.4                    | 12                       | 1567                             | 1513                             | 80                                            |
| 10                                                   | 2                    | 76.1                    | 12                       | 1005                             | -                                | 277                                           |
| 11                                                   | 2                    | 94.3                    | 17                       | 1413                             | -                                | 314                                           |
| 12                                                   | 2                    | 72.8                    | 12                       | 1778                             | -                                | 66                                            |
| 13                                                   | 2                    | 90.9                    | 14                       | 1793                             | -                                | 147                                           |
| 14                                                   | 3                    | 94.8                    | 11                       | 1012                             | 1742                             | 441                                           |
| 15                                                   | 3                    | 95                      | 12                       | 912                              | 1641                             | 609                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| Trail Number                                  |               |                  | 22                |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 16                |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5555              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 1             | 96.7             | 9                 | -                         | -                         | 308                                    |
| 2                                             | 2             | 78.3             | 13                | 1045                      | -                         | 27                                     |
| 3                                             | 1             | 56.5             | 12                | -                         | -                         | 74                                     |
| 4                                             | 3             | 88.5             | 14                | 1119                      | 1020                      | 629                                    |
| 5                                             | 2             | 62.4             | 9                 | 1436                      | -                         | 548                                    |
| 6                                             | 2             | 78.2             | 5                 | 1147                      | -                         | 341                                    |
| 7                                             | 3             | 76.8             | 14                | 1069                      | 1575                      | 360                                    |
| 8                                             | 2             | 91.6             | 18                | 978                       | -                         | 602                                    |
| 9                                             | 2             | 93.7             | 5                 | 1130                      | -                         | 623                                    |
| 10                                            | 2             | 97.4             | 8                 | 1100                      | -                         | 256                                    |
| 11                                            | 3             | 90.1             | 6                 | 1629                      | 1375                      | 108                                    |
| 12                                            | 2             | 79.9             | 18                | 1809                      | -                         | 183                                    |
| 13                                            | 2             | 83               | 10                | 1370                      | -                         | 477                                    |
| 14                                            | 2             | 89.1             | 13                | 1239                      | -                         | 484                                    |
| 15                                            | 2             | 58.3             | 8                 | 1321                      | -                         | 276                                    |
| 16                                            | 1             | 85.2             | 13                | -                         | -                         | 22                                     |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |



| <b>Trail Number</b>                                  |                      |                         | 23                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 17                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5560                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 3                    | 60                      | 10                       | 1097                             | 1748                             | 56                                            |
| 2                                                    | 3                    | 66.3                    | 13                       | 1391                             | 1430                             | 421                                           |
| 3                                                    | 2                    | 88.5                    | 15                       | 1040                             | -                                | 583                                           |
| 4                                                    | 2                    | 72.1                    | 8                        | 1526                             | -                                | 161                                           |
| 5                                                    | 1                    | 72.3                    | 8                        | -                                | -                                | 450                                           |
| 6                                                    | 2                    | 67.3                    | 7                        | 1022                             | -                                | 48                                            |
| 7                                                    | 2                    | 56.1                    | 12                       | 1325                             | -                                | 661                                           |
| 8                                                    | 1                    | 83.5                    | 11                       | -                                | -                                | 695                                           |
| 9                                                    | 3                    | 99.4                    | 13                       | 1490                             | 938                              | 405                                           |
| 10                                                   | 1                    | 54.2                    | 12                       | -                                | -                                | 126                                           |
| 11                                                   | 3                    | 92.7                    | 17                       | 1251                             | 1631                             | 365                                           |
| 12                                                   | 3                    | 95.1                    | 17                       | 1741                             | 1162                             | 57                                            |
| 13                                                   | 2                    | 84                      | 9                        | 1597                             | -                                | 167                                           |
| 14                                                   | 1                    | 68.5                    | 18                       | -                                | -                                | 512                                           |
| 15                                                   | 1                    | 76.5                    | 20                       | -                                | -                                | 185                                           |
| 16                                                   | 3                    | 86.6                    | 11                       | 1774                             | 1875                             | 457                                           |
| 17                                                   | 2                    | 62.2                    | 9                        | 1563                             | -                                | 492                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| Trail Number                                  |               |                  | 24                |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 18                |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5564              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 1             | 86.6             | 19                | -                         | -                         | 621                                    |
| 2                                             | 2             | 95.3             | 17                | 926                       | -                         | 128                                    |
| 3                                             | 1             | 76.2             | 12                | -                         | -                         | 251                                    |
| 4                                             | 3             | 71.4             | 19                | 1287                      | 1404                      | 269                                    |
| 5                                             | 3             | 51.7             | 12                | 1564                      | 1339                      | 633                                    |
| 6                                             | 2             | 77               | 5                 | 1899                      | -                         | 615                                    |
| 7                                             | 1             | 87.5             | 12                | -                         | -                         | 375                                    |
| 8                                             | 3             | 59               | 17                | 1327                      | 1615                      | 610                                    |
| 9                                             | 2             | 78.3             | 15                | 1551                      | -                         | 548                                    |
| 10                                            | 2             | 89.7             | 5                 | 1718                      | -                         | 456                                    |
| 11                                            | 2             | 92.1             | 7                 | 1403                      | -                         | 12                                     |
| 12                                            | 2             | 97.3             | 14                | 1338                      | -                         | 596                                    |
| 13                                            | 3             | 80.3             | 20                | 1354                      | 1563                      | 484                                    |
| 14                                            | 1             | 98.2             | 8                 | -                         | -                         | 428                                    |
| 15                                            | 3             | 94.4             | 13                | 1795                      | 1829                      | 512                                    |
| 16                                            | 2             | 90.4             | 13                | 1105                      | -                         | 342                                    |
| 17                                            | 2             | 73.6             | 19                | 1787                      | -                         | 292                                    |
| 18                                            | 1             | 82.9             | 7                 | -                         | -                         | 618                                    |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |



| <b>Trail Number</b>                                  |                      |                         | 25                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 19                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5565                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 1                    | 90                      | 18                       | -                                | -                                | 173                                           |
| 2                                                    | 1                    | 65.3                    | 19                       | -                                | -                                | 245                                           |
| 3                                                    | 2                    | 82.6                    | 10                       | 1756                             | -                                | 127                                           |
| 4                                                    | 2                    | 93.9                    | 18                       | 1557                             | -                                | 287                                           |
| 5                                                    | 2                    | 50.5                    | 13                       | 1479                             | -                                | 282                                           |
| 6                                                    | 1                    | 68                      | 7                        | -                                | -                                | 176                                           |
| 7                                                    | 3                    | 88.4                    | 11                       | 1244                             | 1076                             | 568                                           |
| 8                                                    | 3                    | 66.8                    | 11                       | 1288                             | 1909                             | 448                                           |
| 9                                                    | 2                    | 88                      | 12                       | 1450                             | -                                | 527                                           |
| 10                                                   | 3                    | 51.1                    | 6                        | 1797                             | 1935                             | 195                                           |
| 11                                                   | 2                    | 93.8                    | 13                       | 1073                             | -                                | 184                                           |
| 12                                                   | 1                    | 83.5                    | 10                       | -                                | -                                | 506                                           |
| 13                                                   | 2                    | 96.9                    | 12                       | 1047                             | -                                | 267                                           |
| 14                                                   | 3                    | 87.2                    | 18                       | 1521                             | 1450                             | 243                                           |
| 15                                                   | 2                    | 60.1                    | 8                        | 1545                             | -                                | 291                                           |
| 16                                                   | 3                    | 98                      | 10                       | 1842                             | 1402                             | 554                                           |
| 17                                                   | 3                    | 57                      | 19                       | 1665                             | 1732                             | 143                                           |
| 18                                                   | 1                    | 74.3                    | 14                       | -                                | -                                | 31                                            |
| 19                                                   | 2                    | 57.8                    | 10                       | 1576                             | -                                | 609                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| <b>Trail Number</b>                                  |                      |                         | 26                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 20                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5566                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 2                    | 92.8                    | 9                        | 1222                             | -                                | 531                                           |
| 2                                                    | 2                    | 52.4                    | 8                        | 1547                             | -                                | 168                                           |
| 3                                                    | 3                    | 56.8                    | 7                        | 1158                             | 1184                             | 193                                           |
| 4                                                    | 1                    | 91.2                    | 7                        | -                                | -                                | 565                                           |
| 5                                                    | 3                    | 61.2                    | 10                       | 1558                             | 1664                             | 387                                           |
| 6                                                    | 3                    | 62                      | 7                        | 1518                             | 1656                             | 391                                           |
| 7                                                    | 2                    | 69                      | 5                        | 1531                             | -                                | 327                                           |
| 8                                                    | 2                    | 67.3                    | 18                       | 1064                             | -                                | 25                                            |
| 9                                                    | 1                    | 94.1                    | 5                        | -                                | -                                | 78                                            |
| 10                                                   | 2                    | 76                      | 17                       | 1190                             | -                                | 222                                           |
| 11                                                   | 2                    | 81.9                    | 12                       | 1815                             | -                                | 96                                            |
| 12                                                   | 2                    | 57.9                    | 8                        | 1594                             | -                                | 277                                           |
| 13                                                   | 3                    | 68.3                    | 19                       | 1427                             | 1540                             | 41                                            |
| 14                                                   | 2                    | 53.3                    | 7                        | 1713                             | -                                | 48                                            |
| 15                                                   | 2                    | 85.3                    | 15                       | 1136                             | -                                | 48                                            |
| 16                                                   | 1                    | 65.3                    | 20                       | -                                | -                                | 57                                            |
| 17                                                   | 3                    | 79.8                    | 20                       | 923                              | 1259                             | 48                                            |
| 18                                                   | 2                    | 56.9                    | 20                       | 1357                             | -                                | 483                                           |
| 19                                                   | 2                    | 93                      | 9                        | 1686                             | -                                | 73                                            |
| 20                                                   | 2                    | 82.8                    | 10                       | 944                              | -                                | 352                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 1                                             |



| Trail Number                                  |               |                  | 27                |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 8                 |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5567              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 3             | 50.9             | 11                | 1106                      | 1077                      | 1293                                   |
| 2                                             | 2             | 77.8             | 18                | 1836                      | -                         | 1235                                   |
| 3                                             | 3             | 60.7             | 5                 | 1069                      | 1635                      | 1092                                   |
| 4                                             | 2             | 77.2             | 13                | 1916                      | -                         | 1343                                   |
| 5                                             | 2             | 91.6             | 13                | 1465                      | -                         | 1466                                   |
| 6                                             | 2             | 56.8             | 17                | 1783                      | -                         | 376                                    |
| 7                                             | 1             | 59.5             | 20                | -                         | -                         | 131                                    |
| 8                                             | 1             | 66.5             | 12                | -                         | -                         | 1024                                   |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 1                                      |



| Trail Number                                  |               |                  | 28                |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 9                 |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5568              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 2             | 72               | 9                 | 1092                      | -                         | 965                                    |
| 2                                             | 2             | 89.2             | 6                 | 1550                      | -                         | 1226                                   |
| 3                                             | 1             | 81.2             | 12                | -                         | -                         | 277                                    |
| 4                                             | 2             | 80.6             | 15                | 1616                      | -                         | 458                                    |
| 5                                             | 2             | 62.8             | 10                | 1812                      | -                         | 748                                    |
| 6                                             | 1             | 71               | 8                 | -                         | -                         | 434                                    |
| 7                                             | 2             | 69.3             | 6                 | 1027                      | -                         | 1111                                   |
| 8                                             | 2             | 77.2             | 13                | 1076                      | -                         | 638                                    |
| 9                                             | 2             | 65.4             | 5                 | 1582                      | -                         | 278                                    |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 0                                      |



| Trail Number                                  |               |                  | 29                |                           |                           |                                        |
|-----------------------------------------------|---------------|------------------|-------------------|---------------------------|---------------------------|----------------------------------------|
| Number of Bursts in Trial                     |               |                  | 10                |                           |                           |                                        |
| Chirp Center Frequency                        |               |                  | 5569              |                           |                           |                                        |
| Burst                                         | No. of Pulses | Pulse Width (us) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (us) | Pulse 2-to-3 Spacing (us) | Starting Location Within Interval (ms) |
| 1                                             | 1             | 51.5             | 19                | -                         | -                         | 151                                    |
| 2                                             | 1             | 82.3             | 13                | -                         | -                         | 1071                                   |
| 3                                             | 3             | 78.3             | 8                 | 1115                      | 1740                      | 646                                    |
| 4                                             | 2             | 99               | 14                | 1101                      | -                         | 709                                    |
| 5                                             | 3             | 98.8             | 7                 | 1819                      | 945                       | 556                                    |
| 6                                             | 2             | 80.9             | 19                | 922                       | -                         | 567                                    |
| 7                                             | 2             | 64               | 12                | 953                       | -                         | 581                                    |
| 8                                             | 1             | 79               | 20                | -                         | -                         | 798                                    |
| 9                                             | 1             | 68               | 8                 | -                         | -                         | 112                                    |
| 10                                            | 2             | 50.4             | 13                | 1587                      | -                         | 26                                     |
| Detection Check (1=Detection; 0=No Detection) |               |                  |                   |                           |                           | 0                                      |



| <b>Trail Number</b>                                  |                      |                         | 30                       |                                  |                                  |                                               |
|------------------------------------------------------|----------------------|-------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| <b>Number of Bursts in Trial</b>                     |                      |                         | 11                       |                                  |                                  |                                               |
| <b>Chirp Center Frequency</b>                        |                      |                         | 5570                     |                                  |                                  |                                               |
| <b>Burst</b>                                         | <b>No. of Pulses</b> | <b>Pulse Width (us)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 Spacing (us)</b> | <b>Pulse 2-to-3 Spacing (us)</b> | <b>Starting Location Within Interval (ms)</b> |
| 1                                                    | 3                    | 57.8                    | 5                        | 1324                             | 1716                             | 82                                            |
| 2                                                    | 2                    | 70.1                    | 20                       | 1733                             | -                                | 587                                           |
| 3                                                    | 2                    | 95.2                    | 13                       | 1188                             | -                                | 789                                           |
| 4                                                    | 3                    | 84.6                    | 20                       | 1042                             | 1259                             | 1021                                          |
| 5                                                    | 3                    | 96.5                    | 7                        | 1329                             | 1596                             | 16                                            |
| 6                                                    | 2                    | 84.3                    | 15                       | 1606                             | -                                | 708                                           |
| 7                                                    | 3                    | 53.5                    | 19                       | 1783                             | 1458                             | 738                                           |
| 8                                                    | 3                    | 74.9                    | 5                        | 1599                             | 1891                             | 466                                           |
| 9                                                    | 3                    | 53.8                    | 7                        | 1494                             | 1467                             | 252                                           |
| 10                                                   | 2                    | 60.5                    | 14                       | 1319                             | -                                | 464                                           |
| 11                                                   | 1                    | 73.3                    | 10                       | -                                | -                                | 845                                           |
| <b>Detection Check (1=Detection; 0=No Detection)</b> |                      |                         |                          |                                  |                                  | 0                                             |

**Type 6 Radar Statistical Performance**

| Trail #                  | Test Freq. (MHz) | Pulses / Hop | Pulse Width (us) | PRI (us) | 1=Detection<br>0=No Detection |
|--------------------------|------------------|--------------|------------------|----------|-------------------------------|
| 1                        | 5530             | 9            | 1                | 333      | 1                             |
| 2                        | 5530             | 9            | 1                | 333      | 1                             |
| 3                        | 5530             | 9            | 1                | 333      | 1                             |
| 4                        | 5530             | 9            | 1                | 333      | 1                             |
| 5                        | 5530             | 9            | 1                | 333      | 1                             |
| 6                        | 5530             | 9            | 1                | 333      | 1                             |
| 7                        | 5530             | 9            | 1                | 333      | 0                             |
| 8                        | 5530             | 9            | 1                | 333      | 1                             |
| 9                        | 5530             | 9            | 1                | 333      | 1                             |
| 10                       | 5530             | 9            | 1                | 333      | 1                             |
| 11                       | 5530             | 9            | 1                | 333      | 1                             |
| 12                       | 5530             | 9            | 1                | 333      | 1                             |
| 13                       | 5530             | 9            | 1                | 333      | 1                             |
| 14                       | 5530             | 9            | 1                | 333      | 1                             |
| 15                       | 5530             | 9            | 1                | 333      | 1                             |
| 16                       | 5530             | 9            | 1                | 333      | 1                             |
| 17                       | 5530             | 9            | 1                | 333      | 1                             |
| 18                       | 5530             | 9            | 1                | 333      | 0                             |
| 19                       | 5530             | 9            | 1                | 333      | 1                             |
| 20                       | 5530             | 9            | 1                | 333      | 1                             |
| 21                       | 5530             | 9            | 1                | 333      | 1                             |
| 22                       | 5530             | 9            | 1                | 333      | 1                             |
| 23                       | 5530             | 9            | 1                | 333      | 1                             |
| 24                       | 5530             | 9            | 1                | 333      | 1                             |
| 25                       | 5530             | 9            | 1                | 333      | 1                             |
| 26                       | 5530             | 9            | 1                | 333      | 1                             |
| 27                       | 5530             | 9            | 1                | 333      | 1                             |
| 28                       | 5530             | 9            | 1                | 333      | 1                             |
| 29                       | 5530             | 9            | 1                | 333      | 1                             |
| 30                       | 5530             | 9            | 1                | 333      | 1                             |
| Detection Percentage (%) |                  |              |                  |          | 93.33                         |
| Limit                    |                  |              |                  |          | 70%                           |
| <b>Test Result</b>       |                  |              |                  |          | <b>Complied</b>               |

## 4 Test Equipment and Calibration Data

| Instrument        | Manufacturer | Model No. | Serial No.    | Characteristics | Calibration Date | Remark  |
|-------------------|--------------|-----------|---------------|-----------------|------------------|---------|
| Spectrum analyzer | R&S          | FSP40     | 100142        | 9kHz~40GHz      | Oct. 15, 2014    | DF01-CB |
| Signal generator  | R&S          | SMU200A   | 102782        | 25MHz-6GHz      | Nov. 29, 2014    | DF01-CB |
| Horn Antenna      | COM-POWER    | AH-118    | 071187        | 1GHz – 18GHz    | Aug. 26, 2014    | DF01-CB |
| Horn Antenna      | COM-POWER    | AH-118    | 071042        | 1GHz – 18GHz    | Dec. 03, 2014    | DF01-CB |
| RF Cable-high     | Woken        | RG402     | High Cable-57 | 1 GHz –18 GHz   | Nov. 15, 2014    | DF01-CB |
| RF Cable-high     | Woken        | RG402     | High Cable-58 | 1 GHz –18 GHz   | Nov. 15, 2014    | DF01-CB |

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

## 5 Measurement Uncertainty

| Test Items        | Uncertainty | Remark                   |
|-------------------|-------------|--------------------------|
| Radiated Emission | 2.9 dB      | Confidence levels of 95% |