

Report No.: FZ932717-02



# FCC DFS TEST REPORT

FCC ID

: Z8H89FT0048

Equipment

: ePMP 5GHz Force 300-13 SM /ePMP 5GHz Force

300-19 SM /ePMP 5GHz Force 300-19R SM

**Brand Name** 

: Cambium Networks

Model Name

: ePMP 5GHz Force 300-13 SM /ePMP 5GHz Force

300-19 SM /ePMP 5GHz Force 300-19R SM

Model Number : C058900P701A/C058900P801A/C058900P901A

Applicant

: Cambium Networks Inc.

3800 Golf Road, Suite 360 Rolling Meadows, IL

60008, USA

Manufacturer

: Cambium Networks, Ltd.

Ashburton, TQ13 7UP, UK

Standard

: 47 CFR FCC Part 15.407

The product was received on Apr. 29, 2019, and testing was started from Aug. 26, 2019 and completed on Aug. 27, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

Approved by: Cliff Chang

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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TEL: 886-3-656-9065 FAX: 886-3-656-9085

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: Sep. 05, 2019

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## History of this test report

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Report No.	Version	Description	Issued Date
FZ932717-02	01	Initial issue of report	Sep. 05, 2019

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## **Summary of Test Result**

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.3	FCC KDB 905462 7.8.1	DFS: UNII Detection Bandwidth Measurement	PASS	-
3.4	FCC KDB 905462 7.8.2.1	DFS: Initial Channel Availability Check Time	PASS	-
3.4	FCC KDB 905462 7.8.2.2	DFS: Radar Burst at the Beginning of the Channel Availability Check Time	PASS	-
3.4	FCC KDB 905462 7.8.2.3	DFS: Radar Burst at the End of the Channel Availability Check Time	PASS	-
3.5	FCC KDB 905462 7.8.3	DFS: In-Service Monitoring for Channel Move Time (CMT)	PASS	-
3.5	FCC KDB 905462 7.8.3 DFS: In-Service Monitoring for Channel Closing Transmission Time (CCTT)		PASS	-
3.5	FCC KDB 905462 7.8.3	DFS: In-Service Monitoring for Non-Occupancy Period (NOP)	PASS	-
3.6	FCC KDB 905462 7.8.4	DFS: Statistical Performance Check	PASS	-
3.1.4	FCC KDB 905462 8.1	User Access Restrictions	PASS	-

Note: For Client without radar detection, Since the product is client without radar detection function, only Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period are required to perform.

#### **Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

#### **Comments and Explanations:**

- 1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
- 2. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen Report Producer: Cindy Peng

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## 1 General Description

### 1.1 Information

### 1.1.1 RF General Information

Specification Items	Descripti	on		
Frequency Range	5250 MHz – 5350 MHz			
	5470 MHz – 5725 MHz			
Power Type	From PoE			
Channel Bandwidth	20/80 MHz operating channel bandwidth			
Operating Mode	Client with radar detection			
Communication Mode	☐ IP Based (Load Based)			
TPC Function	With TPC     ■ Market	☐ Without TPC		
Weather Band (5600~5650MHz)	With 5600~5650MHz     ■ 1	☐ Without 5600~5650MHz		
Power-on cycle	For Master:			
	80MHz: Requires 56.957 seconds to complete its power-on cycle.			
	For Client without radar detection:			
NA (No Channel Availability Check Function)				
Software / Firmware Version	4.5-RC7			
	, 64QAM, 256QAM modulation. m and TPC have the capability to operat	te at least 6 dB below highest RF		

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Note1: The above information was declared by manufacturer.

Note2: While frame-based mechanism is implemented, the test procedure is the same with regular IEEE 802.11a/ac devices.

# TPC Power Result For EUT 1 + Ant. 1:

Mode	Min Power	Max Power	Min EIRP	Max EIRP
	(dBm)	(dBm)	(dBm)	(dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-
5.25-5.35GHz	10.72	16.72	23.72	29.72
5.47-5.725GHz	10.39	16.39	23.39	29.39
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-
5.25-5.35GHz	10.91	16.91	23.91	29.91
5.47-5.725GHz	10.96	16.96	23.96	29.96
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-
5.25-5.35GHz	7.02	13.02	20.02	26.02
5.47-5.725GHz	10.69	16.69	23.69	29.69

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#### For EUT 1 + Ant. 2:

Mode	Min Power	Max Power	Min EIRP	Max EIRP
	(dBm)	(dBm)	(dBm)	(dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-
5.25-5.35GHz	4.48	10.48	23.48	29.48
5.47-5.725GHz	3.80	9.80	22.80	28.80
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-
5.25-5.35GHz	4.76	10.76	23.76	29.76
5.47-5.725GHz	4.79	10.79	23.79	29.79
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-
5.25-5.35GHz	1.61	7.61	20.61	26.61
5.47-5.725GHz	4.70	10.70	23.70	29.70

#### 1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Туре	Connector	Gain (dBi)
1	1	TSKY	180-100-1051R	Patch	I-PEX	13
]	2	TSKY	180-100-1051R	Patch	I-PEX	13
2	1	TSKY	180-100-1077R	Patch	I-PEX	19
2	2	TSKY	180-100-1077R	Patch	I-PEX	19

Note 1: The above information was declared by manufacturer.

Note 2: The array gain of the antenna is 0dBi.

Note 3: The DFS test should be performed with lowest antenna gain, only the lowest gain antennas "Ant.1" was tested and recorded in the report.

Note 4: The EUT has two antennas, and each antenna has two ports. (2TX/2RX)

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

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### 1.1.3 DFS Band Carrier Frequencies

There are two bandwidth systems.

For 20MHz bandwidth systems:

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
	1	5260 MHz	8	5295 MHz
	2	5265 MHz	9	5300 MHz
E2E0 E2E0 MU-	3	5270 MHz	10	5305 MHz
5250~5350 MHz Band 2	4	5275 MHz	11	5310 MHz
Danu 2	5	5280 MHz	12	5315 MHz
	6	5285 MHz	13	5320 MHz
	7	5290 MHz	-	-
	1	5500 MHz	22	5605 MHz
	2	5505 MHz	23	5610 MHz
	3	5510 MHz	24	5615 MHz
	4	5515 MHz	25	5620 MHz
	5	5520 MHz	26	5625 MHz
	6	5525 MHz	27	5630 MHz
	7	5530 MHz	28	5635 MHz
	8	5535 MHz	29	5640 MHz
	9	5540 MHz	30	5645 MHz
5470 5705 MIL	10	5545 MHz	31	5650 MHz
5470~5725 MHz Band 3	11	5550 MHz	32	5655 MHz
Dallu 3	12	5555 MHz	33	5660 MHz
	13	5560 MHz	34	5665 MHz
	14	5565 MHz	35	5670 MHz
	15	5570 MHz	36	5675 MHz
	16	5575 MHz	37	5680 MHz
	17	5580 MHz	38	5685 MHz
	18	5585 MHz	39	5690 MHz
	19	5590 MHz	40	5695 MHz
	20	5595 MHz	41	5700 MHz
	21	5600 MHz	-	-

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#### For 80MHz bandwidth systems:

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
5250~5350 MHz Band 2	1	5290 MHz	-	-
	1	5530 MHz	10	5575 MHz
	2	5535 MHz	11	5580 MHz
	3	5540 MHz	12	5585 MHz
E470 E70E MU-	4	5545 MHz	13	5590 MHz
5470~5725 MHz Band 3	5	5550 MHz	14	5595 MHz
Danu 3	6	5555 MHz	15	5600 MHz
	7	5560 MHz	16	5605 MHz
	8	5565 MHz	17	5610 MHz
	9	5570 MHz	-	=

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### 1.1.4 Table for Multiple Listing

The difference for each equipment names/model names is shown as below:

EUT	<b>Equipment Name</b>	Model Name	Model Number	Equip antenna	Chip	Description
1	ePMP 5GHz Force	ePMP 5GHz Force		Apt 1/2	IPQ4019	The difference
'	300-13 SM	300-13 SM	C058900P701A Ant. 1 / 2			The difference
2	ePMP 5GHz Force	ePMP 5GHz Force		Apt 1/2		served as marketing
	300-19 SM	300-19 SM 300-19 SM C058900P801A Ant. 1 / 2	IFQ4019	strategy.		
	ePMP 5GHz Force	ePMP 5GHz Force	C058900P901A	Ant 2	IPQ4029	Note 1
3	300-19R SM	300-19R SM	CubosuuP9uTA	Ant. 2	1PQ4029	Note 1

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#### Note 1:

IPQ4029 and IPQ4019 are electrically and structurally identical and comply with following conditions:

- -Both IPQ4029 and IPQ4019 components are pin-for-pin compatible.
- -Both IPQ4029 and IPQ4019 have the same basic function.
- -Both IPQ4029 and IPQ4019 are indentical in radio parameters.
- Note 2: The above information was declared by manufacturer.
- Note 3: From the above models, model: ePMP 5GHz Force 300-13 SM (EUT 1) was selected as representative model for the test and its data was recorded in this report.

### 1.1.5 Table for Class III Change

This product is an extension of original one reported under Sporton project number: 932717-01. Below is the table for the change of the product with respect to the original one.

	Modifications	Performance Checking
1.	Adding Band 2 and Band 3 (5250~5350 MHz, 5470~5725 MHz)	
	for this device.	All DFS test items.
2.	Adding client without radar detection mode in DFS Band.	
3.	Removing one set antenna	It does not need to re-test.
	(brand: ABRACON, model name: ARAMS-121, gain: 2 dBi)	it does not need to re-test.

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## 1.2 Accessories

N/A

## 1.3 Support Equipment

	Support Equipment						
No.	No. Equipment Brand Name Model Name FCC ID						
Α	Notebook	DELL	E4300	N/A			
В	Notebook	DELL	E4300	N/A			
С	WLAN AP	Cambium Networks	F300C	N/A			
D	PoE	Cambium Networks	NET-P15-30IN	N/A			

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### 1.4 Applicable Standards

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

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

### 1.5 Testing Location Information

	Testing Location								
	HWA YA	ADD	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)						
		TEL: 886-3-327-3456 FAX: 886-3-327-0973							
	☐ JHUBEI ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.					County 302, Taiwan, R.O.C.			
		TEL : 886-3-656-9065							
Tes	t Condition	Test	Site	No.	Test Engineer	Test E	Environment	Test Date	
DFS Site		DE04 CD Kovin Hugan		24.2 25.2% / 62 600/		For Master: Aug. 26, 2019~Sep. 05, 2019			
DF3 Site		e DF01-CB Ke		Kevin Huang	24.3~25.3°C / 62~68%		For Client without radar detection: Aug. 27, 2019~Aug. 31, 2019		

Test site Designation No. TW0006 with FCC

Test site registered number IC 4086B with Industry Canada.

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## 2 Test Configuration of EUT

### 2.1 Test Channel Frequencies Configuration

#### For Master:

Test Channel Frequencies Configuration				
IEEE Std.	Test Channel Freq. (MHz)			
20MHz	5550 MHz			
80MHz	5550 MHz			

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#### For Client without radar detection:

Test Channel Frequencies Configuration			
IEEE Std. Test Channel Freq. (MHz)			
80MHz	5550 MHz		

### 2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests				
Tests Item Dynamic Frequency Selection (DFS)				
Test Condition  Conducted measurement at transmit chains The EUT shall be configured to operate at the highest transmitter output setting. If more than one antenna assembly is intended for this power setting ain of the antenna assembly with the lowest gain shall be used.				
Modulation Mode	For Master: 20MHz, 80MHz			
Wodulation Wode	For Client without radar detection: 80MHz			

Note 1: All the specification of test configurations and test modes were based on manufacturer's request. Note 2: The EUT was powered by PoE, and the PoE was for measurement only, would not be marketed. PoE information as below:

Support Equipment					
Equipment Brand Name Model Name FCC ID					
PoE	Cambium Networks	NET-P15-30IN	N/A		

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## 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).			

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- Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
- Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate Channel changes (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
- Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

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

- Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
- Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

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

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

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

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### 3.1.3 Applicability of DFS Requirements during Normal Operation

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

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.

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#### 3.1.4 User Access Restrictions

#### **User Access Restrictions**

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

### 3.1.5 Channel Loading/Data Streaming

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

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### 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	((1) (19×10 <sup>6</sup> ))	60%	15
1B	1	15 unique PRI within 518-3066, Excluding 1A PRI	$Roundup \left\{ \left( \frac{1}{360} \right) \times \left( \frac{19 \times 10^6}{PRI} \right) \right\}$	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
Aggrega	ate (Radar Type	80%	120		

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**Note 1**: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

A minimum of 30 unique waveforms are required for each of the short pulse radar types 1 through 4. If more than 30 waveforms are used for short pulse radar types 1 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. The aggregate is the average of the percentage of successful detections of short pulse radar types 1-4.

#### 3.2.2 Long Pulse Radar Test Waveform

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per <i>Burst</i>	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 transmission period will have the same chirp width. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and

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- 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.

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

### 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

#### For Master:

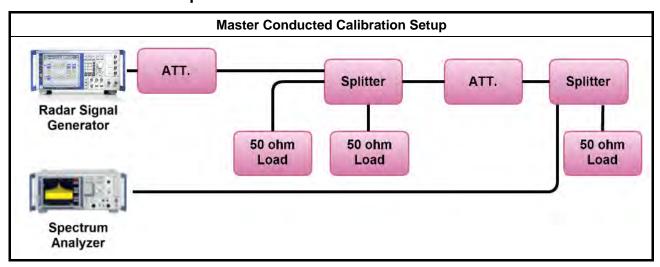
DFS Threshold Level								
DFS Threshold level:	-50	dBm	at the antenna connector					
			in front of the antenna					
The Interference Radar Detection Threshold Level is is $-64  dBm + 13  [dBi] + 1  dB = -50  dBm$ . That had been taken into account the output power range and antenna gain.								

#### For Client without radar detection:

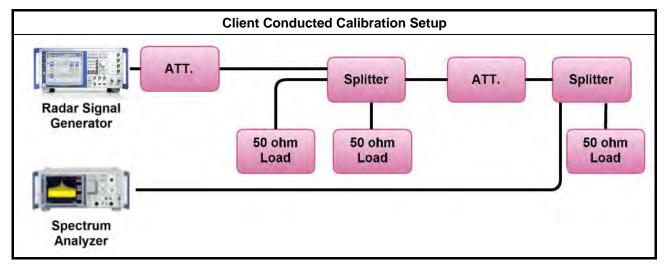
DFS Threshold Level							
DFS Threshold level:	-63	dBm	at the antenna connector				
			in front of the antenna				
The Interference <b>Radar Detection Threshold Level</b> is is -64 dBm + 0 [dBi] + 1 dB = -63 dBm. That had been taken into account the output power range and antenna gain.							

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### 3.2.5 Calibration Setup



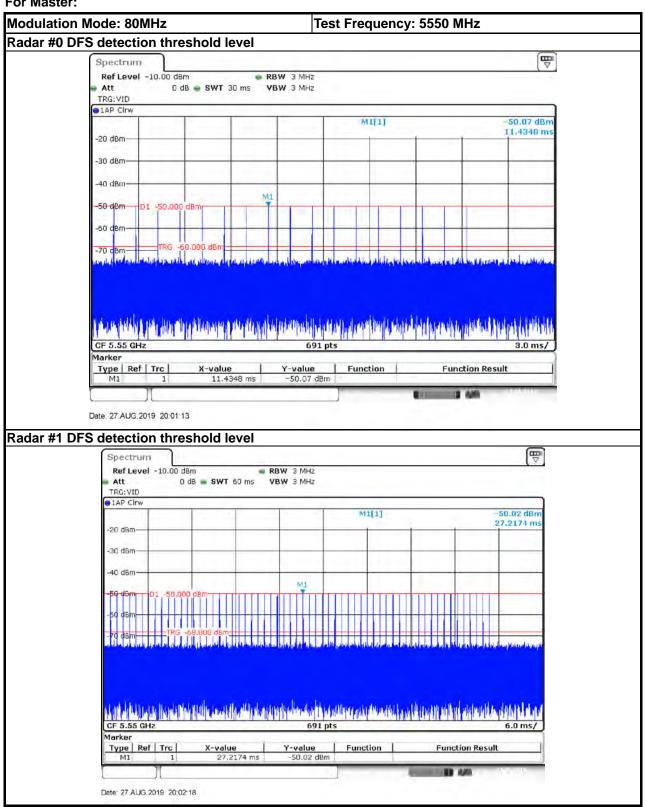
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#### 3.2.6 **Radar Waveform calibration Plot**

#### For Master:

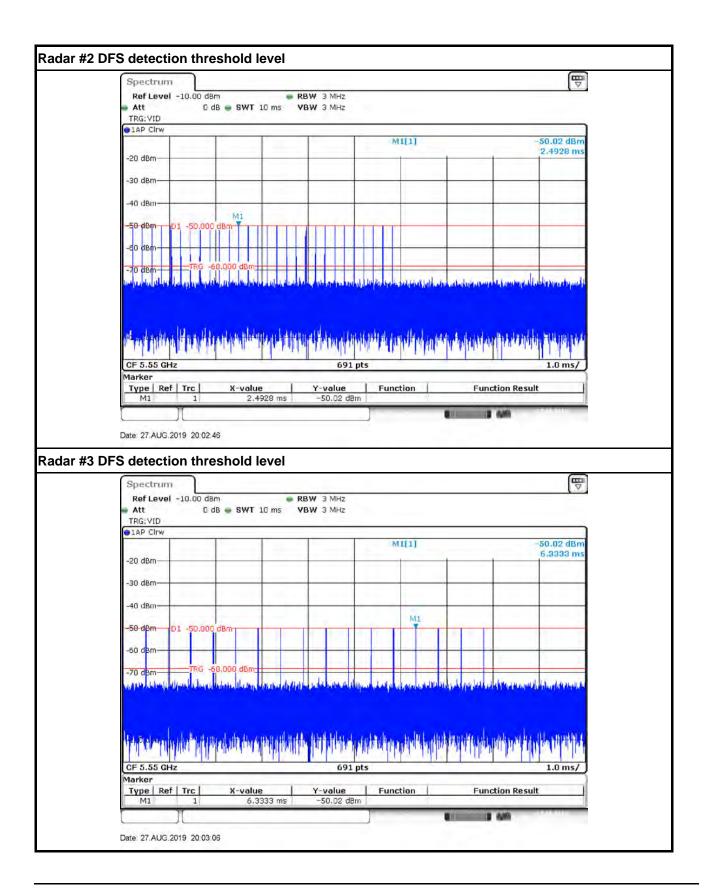


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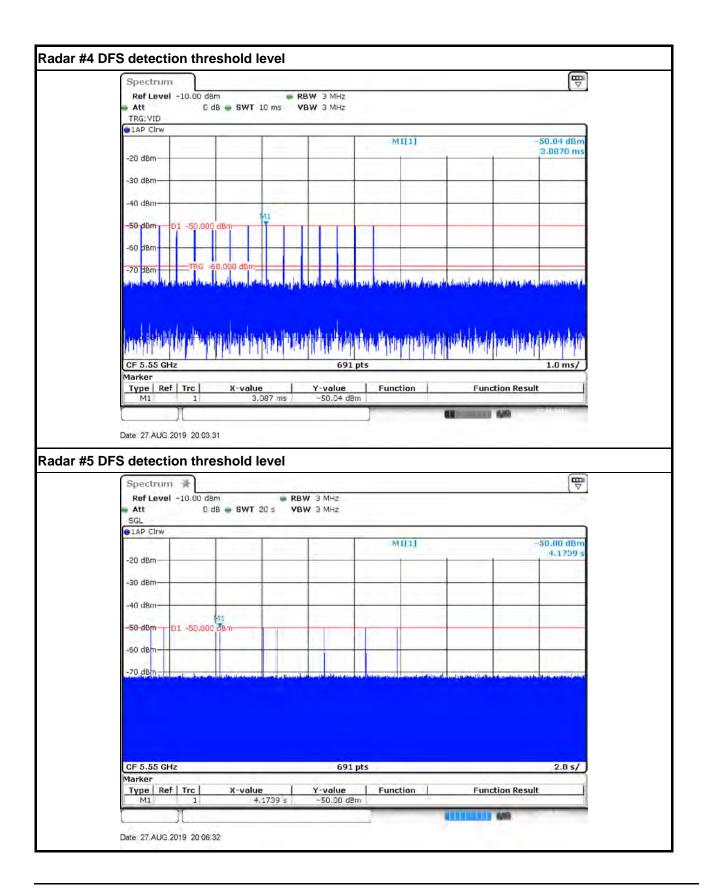
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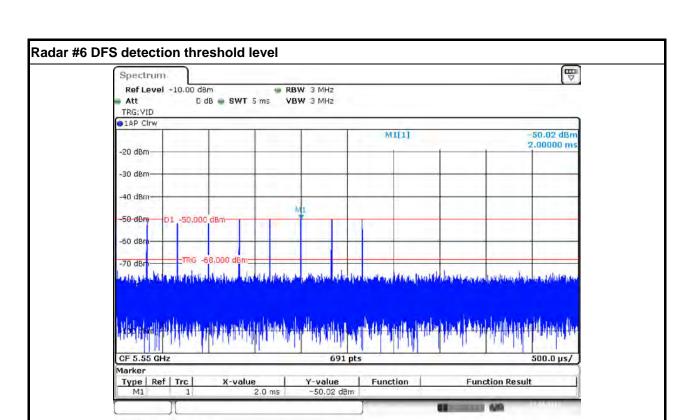
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Date: 27.AUG.2019 20:04:43

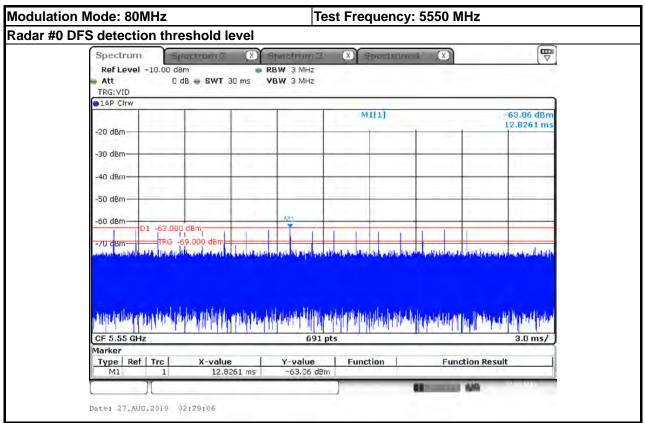


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#### For Client without radar detection:



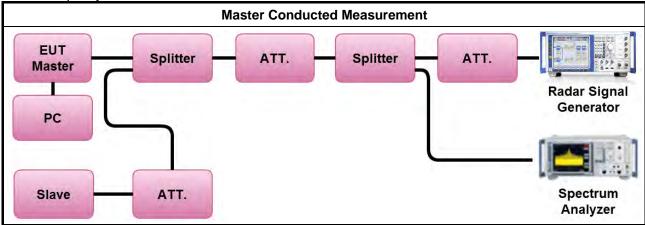
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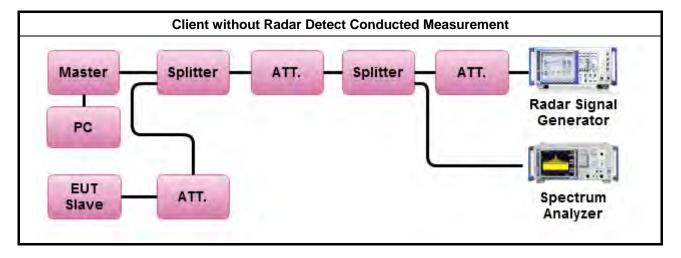
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### 3.2.7 Test Setup

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.

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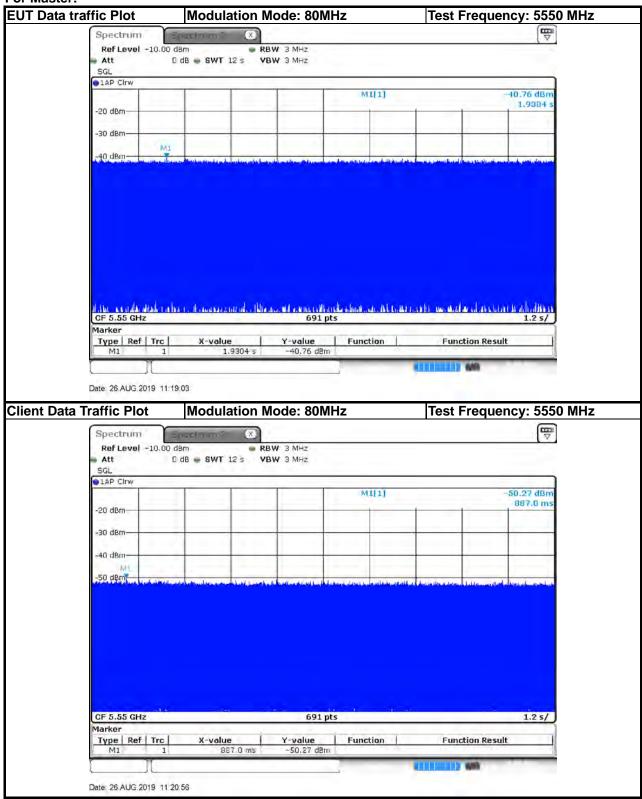




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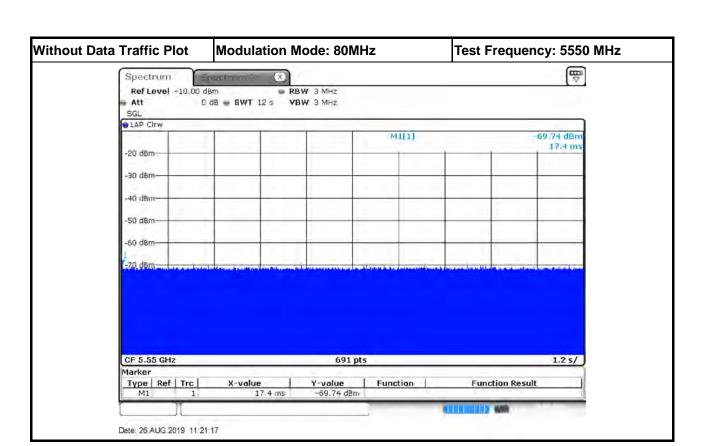
#### 3.2.8 Data traffic Plot

#### For Master:



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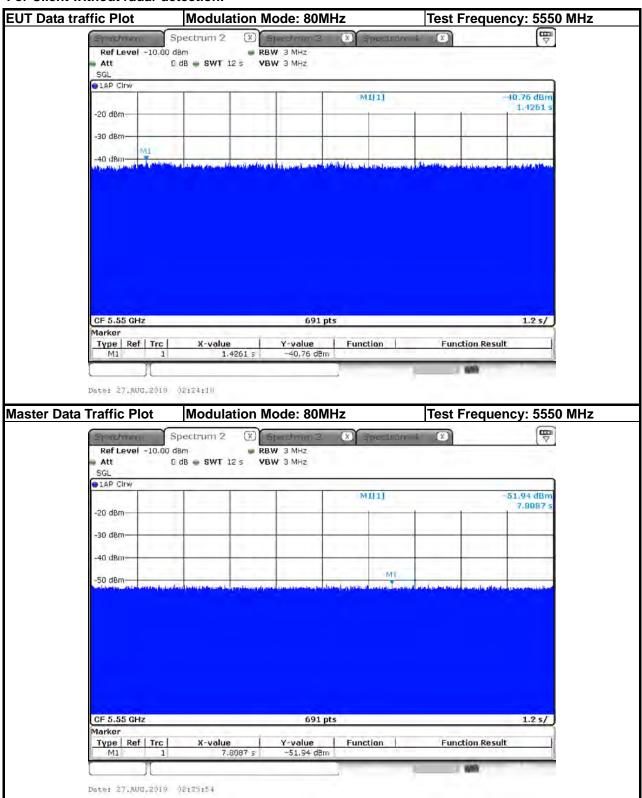
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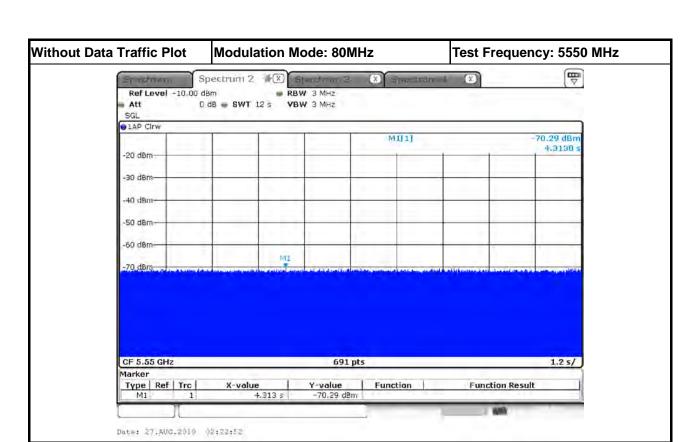
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#### For Client without radar detection:



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#### 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)
20	17.887	18
80	76.989	77

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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.

### 3.3.2 Measuring Instruments

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

#### 3.3.3 Test Procedures

#### **Test Method**

During the U-NII Detection Bandwidth detection test, radar type 0 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic. The EUT is set up as a standalone device (no associated Client and no traffic). The radar frequency is increased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The highest frequency at which detection is greater than or equal to 90% is denoted as F<sub>H</sub>. 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<sub>L</sub>. UNII Detection Bandwidth = F<sub>H</sub> - F<sub>L</sub>.

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### 3.3.4 Test Result of UNII Detection Bandwidth

EUT Frequency=5550 MHz											
Channel Bandwidth (MHz) 20											
DFS Detection Trials (1=Detection, 0= No D								Detection)			
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5540	0	0	0	0	0	0	0	0	0	0	0
5541(FL)	1	0	1	1	1	1	1	1	1	1	90
5542	1	1	1	1	1	1	1	1	1	1	100
5543	1	1	1	1	1	1	1	1	1	1	100
5544	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
5556	1	1	1	1	1	1	1	1	1	1	100
5557	1	1	1	1	1	1	1	1	1	1	100
5558	1	1	1	1	1	1	1	1	1	1	100
5559(FH)	1	1	1	0	1	1	1	1	1	1	90
5560	0	0	0	0	0	0	0	0	0	0	0
Radar Type 0-Detection Bandwidth (MHz) = (FH-FL) = (5559MHz-5541MHz)=											18
UNII Detection Bandwidth Min. Limit (MHz) =									18		
Test Result								Complied			

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	EU	T Fre	quer	icy=5	5550	MHz					
Channel Bandwidth (MHz)	80		-								
DFS Detection Trials (1=Detection, 0= No									Detection)		
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5511	0	0	0	0	0	0	0	0	0	0	0
5512(FL)	1	1	1	1	1	1	1	1	0	1	90
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
5565	1	1	1	1	1	1	1	1	1	1	100
5570	1	1	1	1	1	1	1	1	1	1	100
5575	1	1	1	1	1	1	1	1	1	1	100
5580	1	1	1	1	1	1	1	1	1	1	100
5585	1	1	1	1	1	1	1	1	1	1	100
5588	1	1	1	1	1	1	1	1	1	1	100
5589(FH)	1	1	1	1	0	1	1	1	1	1	90
5590	0	0	0	0	0	0	0	0	0	0	0
Radar Type 0-Detection Bandwidth (I	MHz)	= (FF	I-FL)	= (55	89MI	1z-55	12M	Hz)=			77
UNII Detection Bandwidth Min. Limit (MHz) =									77		
Test Result										Complied	

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### 3.4 Channel Availability Check (CAC)

### 3.4.1 Channel Availability Check Limit

#### **Channel Availability Check Limit**

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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**

- 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.
- 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.
- 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.

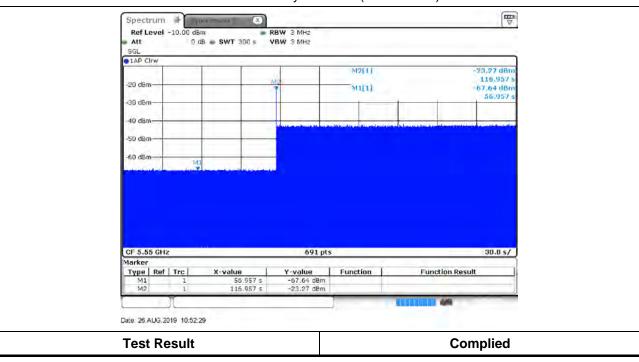
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### 3.4.4 Test Result of Initial Channel Availability Check Time

Modulation Mode	Freq.	Radar Test Signal
80MHz	5550 MHz	N/A

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The EUT does not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle (56.957 sec). The initial CAC time of the EUT is indicated by marker 1 (56.957 sec). Initial beacons/data transmissions are indicated by marker 2 (116.957 sec).



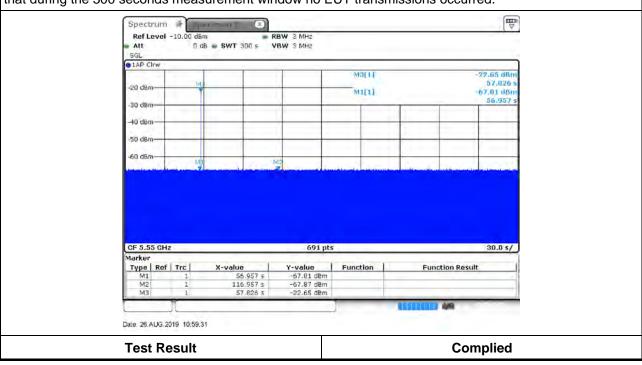
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# 3.4.5 Test Result of Radar Burst at the Beginning of the Channel Availability Check Time

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Modulation Mode	Freq. (MHz)	Radar Type Signal			
80MHz	5550 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 242.174 seconds after the radar Burst has been generated. Verify that during the 300 seconds measurement window no EUT transmissions occurred.



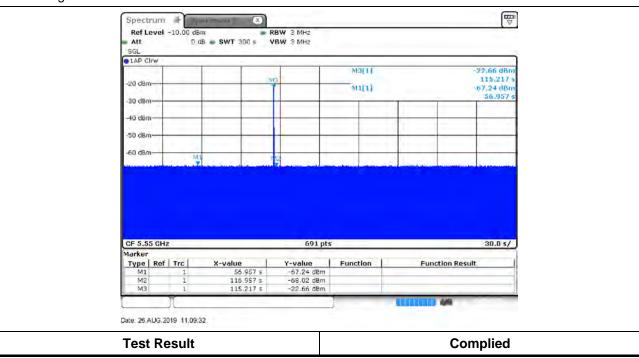
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### 3.4.6 Test Result of Radar Burst at the End of the Channel Availability Check Time

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Modulation Mode	Freq. (MHz)	Radar Type Signal
80MHz	5550 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 184.783 seconds after the radar Burst has been generated. Verify that during the 300 seconds measurement window no EUT transmissions occurred.



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### 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					

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### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

#### **Test Method**

- ✓ 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.
- ✓ 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 zoom-in a 60 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.
- ✓ 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.

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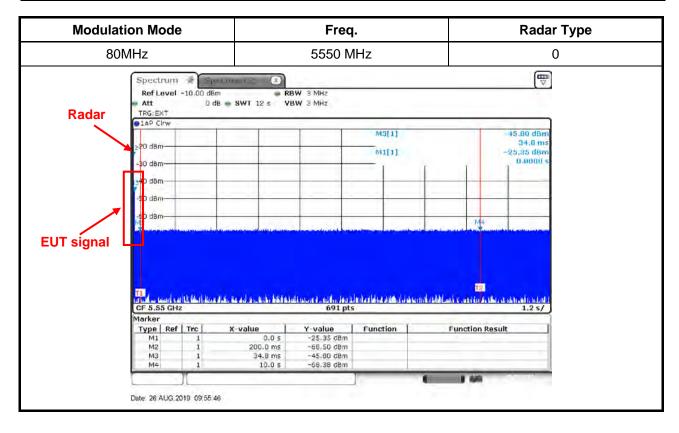
### 3.5.4 Test Result of Channel Move Time

For Master:

Modulation Mode: 80MHz

Parameter	Test Result	Limit	
Parameter	Туре 0	- Limit	
Test Channel (MHz)	5550 MHz	-	
Channel Move Time (sec.)	0.034	< 10s	

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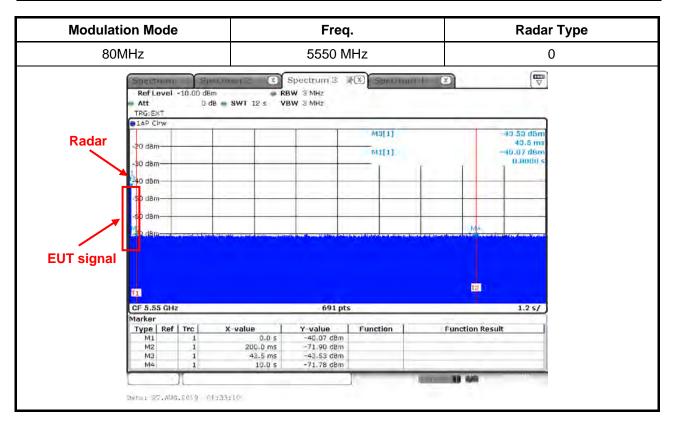


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For Client without radar detection: Modulation Mode: 80MHz

Parameter	Test Result	Limit
	Туре 0	
Test Channel (MHz)	5550 MHz	-
Channel Move Time (sec.)	0.043	< 10s

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# 3.5.5 Test Result of Channel Closing Transmission Time

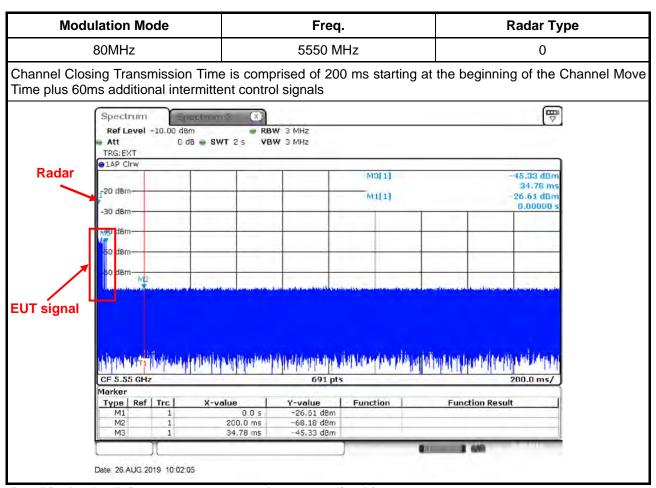
For Master:

Modulation Mode: 80MHz

Parameter	Test Result	Limit	
Farameter	Туре 0		
Test Channel (MHz)	5550 MHz	-	
Channel Closing Transmission Time (ms) (Note)	0.000	< 60ms	

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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.



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 (2.898 ms)= S (2000 ms) / B (690) C (0.000 ms) = N (0) X Dwell (2.898 ms)

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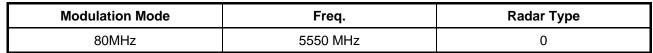
For Client without radar detection:

**Modulation Mode: 80MHz** 

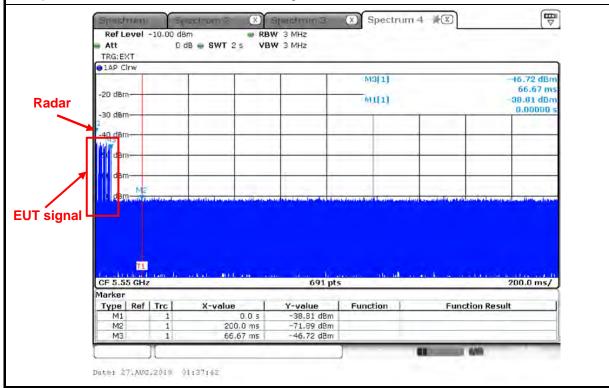
Doromotor	Test Result	Limit	
Parameter	Туре 0		
Test Channel (MHz)	5550 MHz	-	
Channel Closing Transmission Time (ms) (Note)	0.000	< 60ms	

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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.



Channel Closing Transmission Time is comprised of 200 ms starting at the beginning of the Channel Move Time plus 60ms additional intermittent control signals



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 (2.898 ms)= S (2000 ms) / B (690)

C (0.000 ms) = N (0) X Dwell (2.898 ms)

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# 3.5.6 Test Result of Non-Occupancy Period

For Master:

**Modulation Mode: 80MHz** 

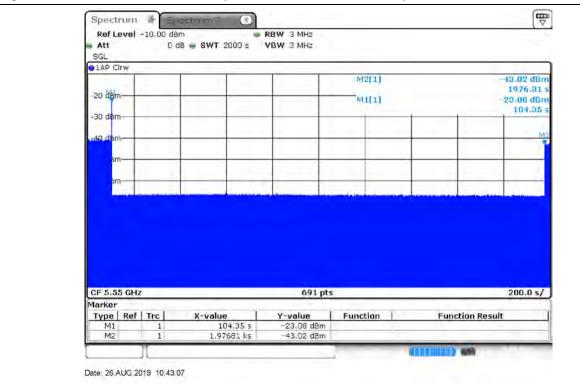
Parameter	Test Result	Limit	
Farameter	Туре 0		
Test Channel (MHz)	5550 MHz	-	
Non-Occupancy Period (min.)	≧30	≥ 30 min	

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ĺ	Modulation Mode	Freq.	
	80MHz	5550 MHz	

# **Non-Occupancy Period**

During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.



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# For Client without radar detection:

Modulation Mode: 80MHz

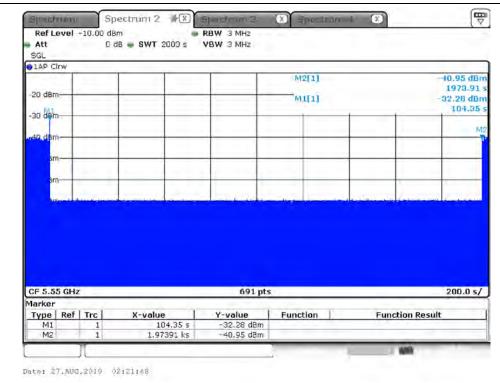
Doromotor	Test Result	Limit	
Parameter	Туре 0		
Test Channel (MHz)	5550 MHz	-	
Non-Occupancy Period (min.)	≥30	≥ 30 min	

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Modulation Mode	Freq.
80MHz	5550 MHz

### **Non-Occupancy Period**

During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.



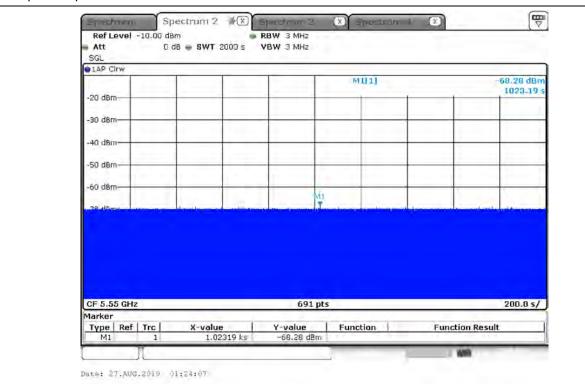
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### Non-associated test

Master was off.

During the 30 minutes observation time, The UUT did not make any transmissions in the DFS band after UUT power up.

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#### 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

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The percentage of successful detection is calculated by:

<u>TotalWaveformDetections</u> ×100 = Probability of Detection Radar Waveform TotalWaveformTrails

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

Pd1 + Pd2 + Pd3 + Pd4

#### 3.6.2 **Measuring Instruments**

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

#### 3.6.3 **Test Procedures**

### **Test Method**

For Statistical Performance Check test. Demonstrating a minimum channel loading of approximately 17% or greater of the test. Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Short Pulse Radar Types 1-4 and 6 to ensure detection occurs. Then Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 22 seconds for Long Pulse Radar Type 5 to ensure detection occurs. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.

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# 3.6.4 Test Result of Statistical Performance Check

Modulation Mode: 20MHz

Type 1 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulse Per Second)	PRI (us)	1=Detection 0=No Detection
1	5552	1	1930.5	518	1
2	5558	23	326.2	3066	0
3	5556	19	1139.0	878	1
4	5558	12	1355.0	738	1
5	5549	4	1730.1	578	1
6	5559	8	1519.8	658	1
7	5542	15	1253.1	798	1
8	5550	6	1618.1	618	0
9	5545	14	1285.3	778	1
10	5555	3	1792.1	558	1
11	5554	13	1319.3	758	0
12	5543	9	1474.9	678	1
13	5556	7	1567.4	638	1
14	5548	17	1193.3	838	1
15	5557	10	1432.7	698	1
16	5552	-	1692.0	591	1
17	5548	-	328.1	3048	1
18	5554	-	373.4	2678	1
19	5552	-	574.4	1741	0
20	5555	-	1216.5	822	1
21	5548	-	801.3	1248	1
22	5547	-	488.5	2047	1
23	5547	-	956.0	1046	1
24	5544	-	517.6	1932	1
25	5554	-	1422.5	703	1
26	5548	-	542.0	1845	1
27	5555	-	741.3	1349	1
28	5552	-	881.8	1134	1
29	5546	-	427.4	2340	1
30	5559	-	628.9	1590	1
Detection Percentage (%)					86.667
Limit					60%
Test Result					Complied

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Type 2 Padar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5559	2.6	221	23	1
2	5541	4.6	198	27	0
3	5551	1.1	184	29	1
4	5557	4.8	203	24	1
5	5554	2.4	162	25	1
6	5556	3.4	204	28	1
7	5544	2.3	170	27	1
8	5546	3.5	184	23	0
9	5548	4.9	150	27	1
10	5544	4.6	211	29	1
11	5541	2.9	158	23	1
12	5553	2.6	226	27	1
13	5555	1.6	204	26	1
14	5547	3.9	181	25	0
15	5548	4.6	202	24	1
16	5551	4.1	194	27	1
17	5546	2.3	193	28	1
18	5552	3.9	173	29	0
19	5544	4.3	188	23	1
20	5557	1.5	215	26	1
21	5550	4.9	227	27	1
22	5551	1.1	199	23	1
23	5548	4.5	155	29	1
24	5551	4.0	190	27	0
25	5548	2.4	151	23	1
26	5547	2.5	180	28	1
27	5558	2.5	228	23	1
28	5559	2.5	203	25	1
29	5557	1.5	188	25	1
30	5551	1.9	217	24	1
Detection Percentage (%)					83.333
imit		<u> </u>			60%
est Res	ult				Complied

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Type 3 Padar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection ; 0=No Detection
1	5552	8.0	205	16	0
2	5548	6.7	382	18	1
3	5549	8.6	418	16	1
4	5546	9.4	351	17	1
5	5549	7.4	383	18	0
6	5552	9.8	232	16	1
7	5544	9.1	377	17	1
8	5555	9.6	457	16	1
9	5542	8.0	471	18	1
10	5556	9.0	304	18	1
11	5550	8.0	316	17	1
12	5554	9.8	325	16	0
13	5555	8.0	409	17	1
14	5548	9.9	200	17	1
15	5543	8.8	458	16	1
16	5542	8.0	232	18	1
17	5548	8.3	250	16	1
18	5550	8.7	270	16	1
19	5547	7.7	350	17	1
20	5559	7.1	230	16	1
21	5554	7.3	416	18	1
22	5541	7.6	498	18	1
23	5556	7.3	286	17	1
24	5553	7.3	287	16	1
25	5557	7.5	462	17	1
26	5545	6.2	300	17	1
27	5554	6.4	323	18	0
28	5551	7.1	420	16	1
29	5541	7.2	395	18	1
30	5546	8.4	377	16	1
Detection Percentage (%)					86.667
Limit					60%
Test Result					Complied

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Type 4 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5545	18.0	242	15	1
2	5552	19.9	279	12	0
3	5549	12.9	487	14	1
4	5557	15.0	452	13	1
5	5558	16.3	230	12	1
6	5555	19.8	238	13	1
7	5555	18.2	420	16	1
8	5552	16.3	452	15	1
9	5544	14.2	495	12	1
10	5545	17.8	228	16	1
11	5552	19.1	211	16	1
12	5559	18.4	283	15	1
13	5550	11.8	411	12	1
14	5555	14.2	284	13	0
15	5546	13.9	202	12	1
16	5545	17.8	340	14	1
17	5547	15.6	290	16	1
18	5541	14.6	250	16	1
19	5544	14.4	484	15	1
20	5559	18.9	387	13	1
21	5546	11.1	348	15	1
22	5555	13.8	291	16	1
23	5544	14.3	295	12	1
24	5552	12.5	300	12	0
25	5548	12.5	322	14	1
26	5552	12.5	383	13	1
27	5559	15.7	322	16	1
28	5553	19.8	469	13	0
29	5541	18.6	406	15	1
30	5558	15.9	238	14	0
Detection Percentage (%)					83.333
Limit					60%
Test Result					Complied

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Total Type 1~4 Radar Statistical Performance

Radar Type #	Detection Percentage (%)
1	86.667
2	83.333
3	86.667
4	83.333
Aggregate (Radar Types 1-4)	85.000
Limit	80%
Test Result	Complied

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enter Freq. (MHz)	Low Edge (MHz)	High Edge (MHz)		
5550	5541	5559	VSG Freq. (MHz)	Detection
Trial	Chirp	Offset		
1	5	2	5550	1
2	20	8	5550	1
3	7	2.8	5550	1
4	8	3.2	5550	1
5	9	3.6	5550	1
6	10	4	5550	1
7	11	4.4	5550	1
8	12	4.8	5550	1
9	13	5.2	5550	1
10	14	5.6	5550	1
11	15	6	5547	1
12	16	6.4	5547	0
13	17	6.8	5548	1
14	20	8	5549	0
15	19	7.6	5549	1
16	18	7.2	5548	0
17	17	6.8	5548	1
18	16	6.4	5547	1
19	15	6	5547	1
20	14	5.6	5547	1
21	13	5.2	5554	1
22	12	4.8	5554	1
23	11	4.4	5555	1
24	10	4	5555	1
25	9	3.6	5555	1
26	8	3.2	5556	1
27	18	7.2	5552	1
28	19	7.6	5551	1
29	20	8	5551	1
30	5	2	5557	1
		otal		27
	Detection Per	centage (%)		90%
imit		<b>U</b> ( /		80%
est Result				Complied

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Trial Number	•		1					
Number of B	ursts in Trial			8				
Chirp Center	Chirp Center Frequency			55	50			
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	62.1	5	-	-	1091		
2	2	56	5	1729	-	133		
3	2	91.3	5	1230	-	1057		
4	3	50.7	5	1762	1616	1442		
5	2	92.6	5	1723	-	544		
6	2	87.3	5	1302	-	1089		
7	2	59.5	5	1291	-	1374		
8	2	52.2	5 1653 - 1237					
Detection Che	eck (1=Detection; 0	=No Detection)				1		

Trial Number			2			
Number of Bur	sts in Trial		9			
Chirp Center Frequency				55	50	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)		
1	3	90	20	1007	1326	30
2	2	73.7	20	1785	-	979
3	1	78.1	20	-	-	683
4	2	92.4	20	1281	-	950
5	1	61.2	20	-	-	612
6	3	67.2	20	1525	1870	17
7	1	78.5	20	-	-	429
8	2	60.3	20	1931	-	936
9	3	92.9	20	1403	1476	548
<b>Detection Chec</b>	k (1=Detection; 0	=No Detection)				1

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<b>Trial Number</b>	•		3				
Number of B	ursts in Trial		10				
Chirp Center Frequency				5550			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)			
1	3	63.4	7	1574	1607	801	
2	1	98	7	-	-	966	
3	1	58.7	7	-	-	185	
4	1	88	7	-	-	1012	
5	3	79.5	7	1562	1370	943	
6	3	57.1	7	1900	1188	686	
7	2	64.4	7	1090	-	599	
8	1	78.7	7	-	-	1089	
9	1	69.3	7	-	-	188	
10	3	55.3	7	1375	1691	933	
Detection Che	eck (1=Detection; 0	=No Detection)				1	

Trial Number			4			
Number of Bui	rsts in Trial		11			
Chirp Center F	Chirp Center Frequency			55	50	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Locate Spacing (us) Spacing (us) With Interval			
1	2	74.3	8	1642	-	24
2	1	83.1	8	-	-	985
3	2	59.5	8	1680	-	988
4	2	59.8	8	1786	-	800
5	2	77.6	8	1617	-	339
6	2	79.9	8	1553	-	1040
7	1	56	8	-	-	544
8	3	71.4	8	1406	1927	452
9	1	97.4	8	-	-	204
10	2	98.3	8	1037	-	926
11	1	63.6	8	-	-	1052
<b>Detection Chec</b>	k (1=Detection; 0	=No Detection)				1

Trial Number	•			Į.	5	
Number of B	ursts in Trial		12			
Chirp Center	Chirp Center Frequency			55	50	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)		
1	1	50	9	-	-	557
2	2	62.5	9	1731	-	567
3	2	55.4	9	1070	-	460
4	1	65.7	9	-	-	4
5	2	58	9	1512	-	64
6	2	60.9	9	1230	-	650
7	3	89.6	9	1598	1738	235
8	3	84.4	9	1271	1617	873
9	3	72.3	9	1498	1321	901
10	1	58.9	9	-	-	663
11	2	74.8	9	1584	-	919
12	1	71.8	9	-	-	375
Detection Che	eck (1=Detection; 0	=No Detection)	•	•	•	1

Trial Number	rial Number			6			
Number of Bui	rsts in Trial		13				
Chirp Center F	Chirp Center Frequency			55	50		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)				
1	2	88.1	10	1257	-	846	
2	1	58.7	10	-	-	725	
3	2	97.1	10	1037	-	30	
4	3	83.1	10	1029	1106	490	
5	1	62.1	10	-	-	262	
6	2	71.4	10	1058	-	283	
7	2	86.3	10	1867	-	49	
8	3	77.3	10	1418	1876	634	
9	1	78.9	10	-	-	304	
10	3	79.2	10	1055	1572	564	
11	3	52	10	1582	1836	852	
12	3	56.5	10	1195	1542	525	
13	3	100	10	1638	1729	750	
<b>Detection Chec</b>	k (1=Detection; 0	=No Detection)				1	

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Trial Numbe	•			-	7			
Number of B	ursts in Trial		14					
Chirp Center	Frequency			5550				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)					
1	2	92.7	11	1208	-	231		
2	2	81.3	11	1144	-	804		
3	2	60.4	11	1555	-	34		
4	2	62.1	11	1320	-	427		
5	1	50	11	-	-	577		
6	3	65.9	11	1020	1365	3		
7	2	73.8	11	1308	-	51		
8	2	74.3	11	1143	-	360		
9	1	62.9	11	-	-	394		
10	2	74.8	11	1404	-	317		
11	2	69.7	11	1309	-	532		
12	2	69.8	11	1688	-	339		
13	2	77.4	11	1857	-	381		
14	1	55.1	11	-	-	426		
Detection Ch	eck (1=Detection; 0	=No Detection)	•	•		1		

Trial Number			8			
Number of Bu	ırsts in Trial		15			
Chirp Center	Chirp Center Frequency			55	50	
Ruret No. of Pulses Pulse Width Chirp Width Pulse 1-to-2 Pulse 2					Starting Location Within Interval (ms)	
1	1	91.7	12	-	-	776
2	2	90	12	1196	-	187
3	3	92.3	12	1486	1853	448
4	2	66.8	12	1545	-	702
5	1	64	12	-	-	403
6	3	95.4	12	1123	1473	230
7	3	66.8	12	1867	1401	604
8	3	67.7	12	1472	1397	38
9	1	68.2	12	-	-	735
10	2	82.2	12	1297	-	610
11	1	92.1	12	-	-	618
12	2	57	12	1764	-	705
13	2	58.5	12	1310	-	22
14	3	85.5	12	1630	1447	641
15	2	82.2	12	1371	-	109
<b>Detection Che</b>	ck (1=Detection; 0	=No Detection)				1

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Detection Check (1=Detection; 0=No Detection)

89.7

16

rial Number	r			(	9		
lumber of B	ursts in Trial		16				
Chirp Center	Frequency		5550				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width   Pulse 1-to-2   Pulse 2-to-3   Location (MHz)   Spacing (us)   Spacing (us)   Within			Starting Location Within Interval (ms)	
1	2	74.4	13	1707	-	442	
2	2	63.6	13	1725	-	280	
3	2	71.3	13	1704	-	459	
4	3	77.6	13	1063	1405	197	
5	3	65.2	13	1731	1294	101	
6	3	55.1	13	1109	1549	17	
7	2	96.8	13	1034	-	131	
8	3	80.8	13	1533	1051	365	
9	1	60.4	13	-	-	222	
10	2	61.8	13	1312	-	371	
11	2	71.3	13	1657	-	33	
12	2	98.1	13	1024	-	291	
13	1	57.9	13	-	-	188	
14	1	91.8	13	-	-	163	
15	2	56.7	13	1259	-	426	

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rial Numbe	r			1	0		
lumber of B	Bursts in Trial		17				
hirp Center	r Frequency			5550			
Burst No. of Pulses Pulse Width (us)			Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	2	74.4	14	1107	-	462	
2	1	87.6	14	-	-	653	
3	2	61.7	14	1741	-	457	
4	2	57.5	14	1566	-	388	
5	2	66.1	14	1855	-	63	
6	3	70.1	14	1044	1012	136	
7	1	66.4	14	-	-	343	
8	1	59.2	14	-	-	349	
9	2	88.3	14	1240	-	362	
10	1	64.7	14	-	-	221	
11	2	73	14	1703	-	144	
12	2	81.7	14	1450	-	671	
13	3	70.1	14	1741	1278	320	
14	1	63.6	14	-	-	196	
15	1	58.7	14	-	-	413	
16	2	65.9	14	1478	-	170	

72.7

Detection Check (1=Detection; 0=No Detection)

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Detection Check (1=Detection; 0=No Detection)

Trial Number			11				
Number of B	ursts in Trial		18				
Chirp Center	Chirp Center Frequency			55	47		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Local Spacing (us) Spacing (us) With Interval				
1	2	72.1	15	1193	-	130	
2	3	76.3	15	1484	1390	114	
3	1	86.1	15	-	-	14	
4	1	73.2	15	-	-	604	
5	1	81.2	15	-	-	548	
6	2	99.5	15	1398	-	173	
7	1	93.9	15	-	-	262	
8	2	75.9	15	1921	-	38	
9	3	79.2	15	1100	1429	84	
10	3	77	15	1166	1799	610	
11	1	91.8	15	-	-	339	
12	3	56.8	15	1330	1556	580	
13	2	83.1	15	1556	-	295	
14	2	63	15	1552	-	156	
15	1	65.7	15	-	-	439	
16	1	64.5	15	-	-	188	

15

15

88.5

60.6

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205

Detection Check (1=Detection; 0=No Detection)

84.1

80.9

74.6

97.6

**Trial Number Number of Bursts in Trial Chirp Center Frequency Starting Chirp Width Pulse Width** Pulse 1-to-2 Pulse 2-to-3 Location Burst No. of Pulses Within (us) (MHz) Spacing (us) Spacing (us) Interval (ms) 90.5 88.4 53.7 80.5 50.4 61.2 78.8 96.7 76.3 73.3 92.4 92.4 64.4 67.3 

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Detection Check (1=Detection; 0=No Detection)

Trial Numbei	r			1	3		
Number of B	ursts in Trial		20				
Chirp Center	Frequency			55	48		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	2	66.1	17	1417	-	388	
2	2	86.7	17	1693	-	348	
3	2	70.5	17	1263	-	215	
4	2	78	17	1446	-	28	
5	2	66	17	1185	-	585	
6	2	80.6	17	1855	-	65	
7	1	95.5	17	-	-	92	
8	1	98.8	17	-	-	68	
9	3	64.3	17	1641	1108	517	
10	1	75.1	17	-	-	121	
11	2	72.6	17	1499	-	448	
12	1	60.3	17	-	-	567	
13	2	54.9	17	1056	-	245	
14	2	98.8	17	1023	-	584	
15	2	60.9	17	1243	-	579	
16	2	62.7	17	1226	-	464	
17	1	80.1	17	-	-	89	
18	2	70.9	17	1711	-	153	
19	1	90.7	17	-	-	282	
20	1	98.9	17	-	-	71	

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Trial Number			14 8					
Number of Bu	ırsts in Trial							
Chirp Center Frequency				55	49			
Burst No. of Pulses Pulse Width (us)			Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)		
1	2	67.5	20	1542	-	947		
2	3	83.6	20	1272	1696	124		
3	2	93.2	20	1877	-	701		
4	1	55.6	20	-	-	1123		
5	3	84.2	20	1733	1619	756		
6	3	69.1	20	1612	1071	1		
7	2	66.9	20 1905 - 7					
8	3	86.8	20	1697	1621	1082		
<b>Detection Che</b>	ck (1=Detection; 0	=No Detection)				0		

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Chirp Width (MHz)		49	Starting
			Starting
	Pulse 1-to-2	5.1.04.0	Starting
	Spacing (us)		Location Within Interval (ms)
19	1571	-	949
19	1669	-	189
19	1505	-	176
19	1325	-	538
19	1483	-	908
19	1110	-	1017
19	1445	1677	492
19	1341	349	
19	1929	1221	1105
	19 19 19 19 19 19 19	19     1669       19     1505       19     1325       19     1483       19     1110       19     1445       19     1596       19     1929	19     1669       19     1505       19     1325       19     1483       19     1110       19     1445       19     1596       1341       19     1929       1221

Trial Number			16 10					
Number of Bu	ırsts in Trial							
Chirp Center Frequency			5548					
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)		
1	2	80.5	18	1910	-	284		
2	2	64.2	18	1661	-	751		
3	2	90.1	18	1041	-	491		
4	2	69.8	18	1495	-	107		
5	1	73.1	18	-	-	490		
6	3	77.2	18	1418	1145	1155		
7	3	52.6	18	1732	1787	772		
8	2	71.4	18	1562	-	121		
9	2	89.8	18 1491 -					
10	2	76.4	18	1355	-	615		
<b>Detection Che</b>	ck (1=Detection; 0	=No Detection)				0		

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Trial Numbe	ſ		17 11					
Number of B	ursts in Trial							
Chirp Center	Chirp Center Frequency			5548				
Burst No. of Pulses Pulse Width (us)			Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)		
1	2	51.2	17	1236	-	740		
2	1	71.7	17	-	-	941		
3	2	74.7	17	1164	-	370		
4	2	50.9	17	1919	-	371		
5	2	65.2	17	1206	-	1033		
6	2	98	17	1182	-	346		
7	2	58.7	17	1612	-	639		
8	1	63.8	17	-	-	1056		
9	3	86.3	17	1545	1065	205		
10	1	94.4	17	-	753			
11	3	88.5	17	1699	1319	58		
Detection Che	eck (1=Detection; 0	=No Detection)	•	•	•	1		

Trial Number			18 12					
Number of Bui	rsts in Trial							
Chirp Center F	Chirp Center Frequency			5547				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)				
1	2	88.7	16	1405	-	448		
2	3	90.2	16	1544	1235	621		
3	1	96.5	16	-	-	512		
4	2	80.5	16	1090	-	321		
5	2	63.7	16	1268	-	798		
6	1	53.4	16	-	-	809		
7	2	52.3	16	1043	-	301		
8	3	54.7	16	1701	1104	796		
9	3	75.6	16	1923	1729	669		
10	2	59.2	16	1244	-	369		
11	1	56.3	16 - 5					
12	2	87.8	16	1608	-	733		
<b>Detection Chec</b>	k (1=Detection; C	=No Detection)		•		1		

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Trial Number	•		19 13					
Number of B	ursts in Trial							
Chirp Center	Chirp Center Frequency			5547				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)		
1	2	68.2	15	1104	-	229		
2	2	58.4	15	1627	-	488		
3	3	74.7	15	1861	1015	137		
4	2	58.2	15	1593	-	520		
5	1	51.6	15	-	-	799		
6	2	94.7	15	1469	-	43		
7	2	70.7	15	1091	-	126		
8	2	82.9	15	1472	-	607		
9	3	62.7	15	1168	1453	527		
10	2	63.1	15	1529	-	143		
11	1	96.1	15	-	-	176		
12	2	57	15	1457	-	882		
13	3	95.6	15	1707	1501	214		
Detection Che	eck (1=Detection; 0	=No Detection)			•	1		

Trial Number				2	0				
Number of Bu	rsts in Trial		14 5547						
Chirp Center F	requency								
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)						
1	1	95.7	14	-	-	117			
2	1	93.1	14	-	-	720			
3	1	55.8	14	-	-	297			
4	1	76.7	14	-	-	284			
5	2	68	14	1686	-	472			
6	3	94.1	14	1796	1393	264			
7	2	53.9	14	1293	-	525			
8	1	99.3	14	-	-	155			
9	2	73.3	14	1458	-	65			
10	2	93.3	14	1196	-	451			
11	3	55.8	14	1895	1034	243			
12	1	66.4	14	-	-	228			
13	2	65.6	14	1732	-	746			
14	2	76.5	14	1187	-	522			
<b>Detection Chec</b>	ck (1=Detection; 0	=No Detection)				1			

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Trial Number	f		21 15					
Number of B	ursts in Trial							
Chirp Center	Frequency			5554				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)		
1	1	85.1	13	-	-	565		
2	2	72.5	13	1648	-	211		
3	1	67.5	13	-	-	348		
4	2	56.1	13	1360	-	156		
5	1	71.1	13	-	-	718		
6	2	93.1	13	1391	-	400		
7	1	56.5	13	-	-	482		
8	1	63.8	13	-	-	703		
9	2	67.4	13	1727	-	780		
10	1	52.3	13	-	-	102		
11	3	62.4	13	1228	1715	304		
12	2	53.3	13	1630	-	57		
13	2	83.1	13	1205	-	768		
14	2	93.7	13	1085	-	461		
15	2	90.7	13	1297	-	746		
Detection Che	eck (1=Detection; 0	=No Detection)				1		

Trial Number				2	2			
Number of Bu	rsts in Trial		16					
Chirp Center I	Frequency			5554				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)		
1	2	98.8	12	1439	-	95		
2	1	54.5	12	-	-	676		
3	2	80.5	12	1360	-	8		
4	2	55.9	12	1906	-	373		
5	2	72.1	12	1623	-	254		
6	2	84.4	12	1604	-	480		
7	1	78.5	12	-	-	663		
8	1	88	12	-	-	314		
9	2	74.7	12	1157	-	596		
10	2	97.1	12	1673	-	264		
11	1	81.6	12	-	-	740		
12	1	83.6	12	-	-	163		
13	3	87.6	12	1757	1322	628		
14	2	58.5	12	1372	-	132		
15	3	91.8	12	1767	1183	106		
16	2	58.8	12	1432	-	659		
Detection Ched	ck (1=Detection; 0	=No Detection)				1		

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rial Numbe	r		23 17					
umber of B	ursts in Trial							
hirp Center	nirp Center Frequency			5555				
Burst No. of Pulses Pulse Width (us)			Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)		
1	1	96	11	-	-	284		
2	2	92.5	11	1241	-	488		
3	2	89.5	11	1347	-	76		
4	2	74.8	11	1607	-	688		
5	2	60.6	11	1523	-	28		
6	2	71.5	11	1659	-	383		
7	2	71.1	11	1454	-	182		
8	1	98.7	11	-	-	20		
9	2	85.1	11	1770	-	576		
10	2	89.2	11	1086	-	410		
11	2	60.7	11	1101	-	458		
12	2	75.2	11	1719	-	348		
13	2	75.7	11	1799	-	481		
14	3	56.7	11	1132	1884	587		
15	2	65	11	1885	-	480		

11

11

1910

1410

1190

64.6

69.9

Detection Check (1=Detection; 0=No Detection)

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3

Detection Check (1=Detection; 0=No Detection)

68.4

Trial Numbe	r			2	4			
Number of B	ursts in Trial		18					
Chirp Center	Frequency			5555				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)		
1	3	83.8	10	1290	1021	536		
2	2	66.9	10	1112	-	44		
3	3	91	10	1220	1504	611		
4	2	86.1	10	1678	-	456		
5	3	65.5	10	1928	1222	330		
6	1	62.6	10	-	-	297		
7	3	68.7	10	1505	1200	351		
8	3	59.2	10	1452	1114	230		
9	1	73.9	10	-	-	222		
10	1	77.2	10	-	-	57		
11	2	96.4	10	1357	-	399		
12	2	99.9	10	1173	-	299		
13	2	99.9	10	1520	-	464		
14	1	86.7	10	-	-	294		
15	1	92.6	10	-	-	653		
16	1	77.1	10	-	-	550		
17	2	81.1	10	1664	-	566		

10

1536

1309

580

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19

Detection Check (1=Detection; 0=No Detection)

Trial Number				2	5		
Number of Bur	rsts in Trial		19				
Chirp Center F	requency			55	55		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)				
1	3	68.2	9	1723	1868	471	
2	3	83.7	9	1711	1405	368	
3	2	69.7	9	1781	-	425	
4	1	59.7	9	-	-	440	
5	2	96.7	9	1484	-	123	
6	2	95.8	9	1319	-	261	
7	3	71.3	9	1095	1354	332	
8	3	53.2	9	1527	1427	427	
9	2	69.5	9	1771	-	397	
10	3	63.9	9	1075	1447	67	
11	2	93.4	9	1783	-	174	
12	2	77.3	9	1564	-	17	
13	2	73.1	9	1294	-	216	
14	1	77.4	9	-	-	292	
15	3	57.2	9	1722	1886	619	
16	2	68.7	9	1629	-	233	
17	1	60.8	9	-	-	226	

9

9

1128

1224

599

433

69.7

62.2

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Trial Number	•			2	6			
Number of B	umber of Bursts in Trial			20				
Chirp Center	Frequency			55	56			
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	80.5	8	-	-	90		
2	3	62.6	8	1406	1343	319		
3	3	85.6	8	1190	1529	384		
4	2	83.9	8	1208	-	567		
5	2	92.4	8	1488	-	234		
6	2	54	8	1529	-	535		
7	3	81.3	8	1501	1812	325		
8	1	98.5	8	-	-	532		
9	1	85.8	8	-	-	272		
10	2	84.7	8	1593	-	182		
11	2	83.3	8	1705	-	134		
12	2	79.8	8	1567	-	286		
13	1	77.9	8	-	-	368		
14	3	98.4	8	1510	1569	290		
15	2	79.9	8	1588	-	231		
16	3	78	8	1140	1353	353		
17	3	55.2	8	1700	1327	53		
18	3	71.9	8	1081	1224	44		
19	1	62	8	-	-	298		
20	3	70.5	8	1888	1442	529		
Detection Che	eck (1=Detection; 0	=No Detection)				1		

Trial Number			27					
Number of Bu	lumber of Bursts in Trial			8				
Chirp Center	Frequency			55	52			
Burst No. of Pulses Pulse Width (us)			Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)		
1	2	69.1	18	1076	-	1436		
2	2	62.1	18	1688	-	22		
3	2	94.8	18	1891	-	897		
4	1	75.8	18	-	-	1186		
5	2	65.4	18	1713	-	589		
6	2	97.7	18	1292	-	614		
7	3	98.1	18 1670 1711 506					
8	2	85.4	18 1672 - 776					
<b>Detection Che</b>	ck (1=Detection; 0	=No Detection)				1		

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Trial Number	Trial Number			28				
Number of Bursts in Trial			9					
Chirp Center	Frequency			55	51			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)		
1	3	82	19	1233	1713	679		
2	3	87.7	19	1554	1123	473		
3	2	98.9	19	1518	-	869		
4	1	55	19	-	-	719		
5	1	93.6	19	-	-	902		
6	2	58.7	19	1641	-	1243		
7	2	88.7	19	410				
8	1	60.3	19 1154					
9	1	97.7	19	512				
<b>Detection Che</b>	eck (1=Detection; 0	=No Detection)	•	•	•	1		

Trial Number  Number of Bursts in Trial			29 10				
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	69.6	20	-	-	1131	
2	1	74.5	20	-	-	290	
3	1	60.9	20	-	-	895	
4	1	74.6	20	-	-	202	
5	2	99.3	20	1501	-	139	
6	2	95.3	20	1065	-	854	
7	2	91.9	20	1722	-	219	
8	2	51	20	1285	-	57	
9	2	87.7	20	1747	-	141	
10	1	87.2	20	-	-	596	
Detection Ched	ck (1=Detection; 0	=No Detection)				1	

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Trial Number				3	0			
Number of Bur	Number of Bursts in Trial			11				
Chirp Center F	requency			55	57			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)				
1	3	59.9	5	1901	1196	935		
2	2	77.1	5	1590	-	1038		
3	2	62.7	5	1227	-	690		
4	1	77.1	5	-	-	547		
5	3	99.8	5	1798	1790	551		
6	2	61.5	5	1135	-	876		
7	2	77.5	5	1583	-	448		
8	2	57.3	5	1890	-	736		
9	2	53.5	5	1757	-	362		
10	1	66.6	5	-	-	836		
11	3	80.7	5	1811	1289	410		
<b>Detection Chec</b>	k (1=Detection; C	=No Detection)				1		

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Type 6 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulses / Hop	Pulse Width (us)	PRI (us)	1=Detection 0=No Detection
1	5550	9	1	333	1
2	5550	9	1	333	0
3	5550	9	1	333	1
4	5550	9	1	333	1
5	5550	9	1	333	1
6	5550	9	1	333	0
7	5550	9	1	333	1
8	5550	9	1	333	0
9	5550	9	1	333	1
10	5550	9	1	333	1
11	5550	9	1	333	1
12	5550	9	1	333	0
13	5550	9	1	333	1
14	5550	9	1	333	1
15	5550	9	1	333	1
16	5550	9	1	333	1
17	5550	9	1	333	1
18	5550	9	1	333	0
19	5550	9	1	333	1
20	5550	9	1	333	1
21	5550	9	1	333	1
22	5550	9	1	333	1
23	5550	9	1	333	0
24	5550	9	1	333	1
25	5550	9	1	333	1
26	5550	9	1	333	1
27	5550	9	1	333	0
28	5550	9	1	333	1
29	5550	9	1	333	0
30	5550	9	1	333	1
		etection Percenta	ge (%)		73.333
imit					70%
est Res	ult				Complied

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Modulation Mode: 80MHz

Type 1 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulse Per Second)	PRI (us)	1=Detection 0=No Detection
1	5573	1	1930.5	518	1
2	5557	23	326.2	3066	1
3	5520	19	1139.0	878	1
4	5538	12	1355.0	738	1
5	5529	4	1730.1	578	1
6	5544	8	1519.8	658	1
7	5563	15	1253.1	798	1
8	5538	6	1618.1	618	1
9	5560	14	1285.3	778	1
10	5520	3	1792.1	558	1
11	5555	13	1319.3	758	1
12	5525	9	1474.9	678	1
13	5559	7	1567.4	638	0
14	5580	17	1193.3	838	1
15	5541	10	1432.7	698	1
16	5532	-	1692.0	591	1
17	5584	-	328.1	3048	1
18	5557	-	373.4	2678	1
19	5587	-	574.4	1741	1
20	5564	-	1216.5	822	1
21	5561	-	801.3	1248	1
22	5516	-	488.5	2047	1
23	5581	-	956.0	1046	1
24	5516	-	517.6	1932	1
25	5548	-	1422.5	703	1
26	5541	-	542.0	1845	1
27	5523		741.3	1349	0
28	5546		881.8	1134	1
29	5536	-	427.4	2340	1
30	5586	-	628.9	1590	1
		Detection Percentage	(%)		93.333
Limit					60%
<b>Test Res</b>	ult				Complied

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Type 2 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5573	2.6	221	23	1
2	5557	4.6	198	27	1
3	5520	1.1	184	29	1
4	5538	4.8	203	24	1
5	5529	2.4	162	25	1
6	5544	3.4	204	28	1
7	5563	2.3	170	27	1
8	5538	3.5	184	23	1
9	5560	4.9	150	27	1
10	5520	4.6	211	29	1
11	5555	2.9	158	23	1
12	5525	2.6	226	27	1
13	5559	1.6	204	26	0
14	5580	3.9	181	25	1
15	5541	4.6	202	24	1
16	5532	4.1	194	27	1
17	5584	2.3	193	28	1
18	5557	3.9	173	29	1
19	5587	4.3	188	23	0
20	5564	1.5	215	26	1
21	5561	4.9	227	27	1
22	5516	1.1	199	23	1
23	5581	4.5	155	29	1
24	5516	4.0	190	27	1
25	5548	2.4	151	23	1
26	5541	2.5	180	28	0
27	5523	2.5	228	23	1
28	5546	2.5	203	25	1
29	5536	1.5	188	25	1
30	5586	1.9	217	24	1
	D	etection Percentage (9	%)		90.000
imit					60%
est Resi	ılt				Complied

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Type 3 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5573	8.0	205	16	1
2	5557	6.7	382	18	1
3	5520	8.6	418	16	1
4	5538	9.4	351	17	1
5	5529	7.4	383	18	1
6	5544	9.8	232	16	1
7	5563	9.1	377	17	1
8	5538	9.6	457	16	0
9	5560	8.0	471	18	1
10	5520	9.0	304	18	1
11	5555	8.0	316	17	1
12	5525	9.8	325	16	1
13	5559	8.0	409	17	0
14	5580	9.9	200	17	1
15	5541	8.8	458	16	1
16	5532	8.0	232	18	1
17	5584	8.3	250	16	1
18	5557	8.7	270	16	1
19	5587	7.7	350	17	0
20	5564	7.1	230	16	1
21	5561	7.3	416	18	1
22	5516	7.6	498	18	0
23	5581	7.3	286	17	1
24	5516	7.3	287	16	1
25	5548	7.5	462	17	1
26	5541	6.2	300	17	1
27	5523	6.4	323	18	1
28	5546	7.1	420	16	1
29	5536	7.2	395	18	1
30	5586	8.4	377	16	1
	86.667				
imit					60%
est Resi	ult				Complied

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Type 4 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5573	18.0	242	15	1
2	5557	19.9	279	12	1
3	5520	12.9	487	14	1
4	5538	15.0	452	13	1
5	5529	16.3	230	12	1
6	5544	19.8	238	13	1
7	5563	18.2	420	16	1
8	5538	16.3	452	15	1
9	5560	14.2	495	12	0
10	5520	17.8	228	16	1
11	5555	19.1	211	16	1
12	5525	18.4	283	15	1
13	5559	11.8	411	12	1
14	5580	14.2	284	13	1
15	5541	13.9	202	12	1
16	5532	17.8	340	14	1
17	5584	15.6	290	16	0
18	5557	14.6	250	16	1
19	5587	14.4	484	15	1
20	5564	18.9	387	13	1
21	5561	11.1	348	15	1
22	5516	13.8	291	16	1
23	5581	14.3	295	12	1
24	5516	12.5	300	12	1
25	5548	12.5	322	14	1
26	5541	12.5	383	13	1
27	5523	15.7	322	16	1
28	5546	19.8	469	13	1
29	5536	18.6	406	15	1
30	5586	15.9	238	14	1
'	D	etection Percentage (9	%)		93.333
imit		0 \	•		60%
est Resu	ılt				Complied

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Total Type 1~4 Radar Statistical Performance

Radar Type #	Detection Percentage (%)
1	93.333
2	90.000
3	86.667
4	93.333
Aggregate (Radar Types 1-4)	90.833
Limit	80%
Test Result	Complied

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Type 5 Radar Statistical Performance

Center Freq. (MHz)	Low Edge (MHz)	High Edge (MHz)		
5550	5512	5589	VSG Freq. (MHz)	Detection
Trial	Chirp	Offset		
1	5	2	5550	1
2	20	8	5550	1
3	7	2.8	5550	1
4	8	3.2	5550	1
5	9	3.6	5550	1
6	10	4	5550	1
7	11	4.4	5550	1
8	12	4.8	5550	1
9	13	5.2	5550	1
10	14	5.6	5550	1
11	15	6	5518	1
12	16	6.4	5518	1
13	17	6.8	5519	1
14	20	8	5520	0
15	19	7.6	5520	1
16	18	7.2	5519	1
17	17	6.8	5519	1
18	16	6.4	5518	1
19	15	6	5518	1
20	14	5.6	5518	1
21	13	5.2	5584	1
22	12	4.8	5584	1
23	11	4.4	5585	1
24	10	4	5585	1
25	9	3.6	5585	1
26	8	3.2	5586	1
27	18	7.2	5582	1
28	19	7.6	5581	1
29	20	8	5581	1
30	5	2	5587	1
		otal		29
	Detection Per			97%
imit		<b>5</b> , ,		80%
Test Result				Complied

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Trial Number	•		1					
Number of B	Number of Bursts in Trial Chirp Center Frequency			8				
Chirp Center				55	50			
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	62.1	5	-	-	1091		
2	2	56	5	1729	-	133		
3	2	91.3	5	1230	-	1057		
4	3	50.7	5	1762	1616	1442		
5	2	92.6	5	1723	-	544		
6	2	87.3	5 1302 - 108					
7	2	59.5	5 1291 - 13					
8	2	52.2	5	1653	-	1237		
Detection Che	eck (1=Detection; 0	=No Detection)				1		

Trial Number			2						
Number of Bursts in Trial			9						
Chirp Center F	requency			55	50				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)						
1	3	90	20	1007	1326	30			
2	2	73.7	20	1785	-	979			
3	1	78.1	20	-	-	683			
4	2	92.4	20	1281	-	950			
5	1	61.2	20	-	-	612			
6	3	67.2	20	1525	1870	17			
7	1	78.5	20						
8	2	60.3	20	936					
9	3	92.9	20	1403	1476	548			
<b>Detection Chec</b>	k (1=Detection; 0	=No Detection)				1			

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Trial Number	r		3				
Number of B	Number of Bursts in Trial Chirp Center Frequency			10			
Chirp Center				55	50		
Burst No. of Pulses Pulse Width (us)			Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	3	63.4	7	1574	1607	801	
2	1	98	7	-	-	966	
3	1	58.7	7	-	-	185	
4	1	88	7	-	-	1012	
5	3	79.5	7	1562	1370	943	
6	3	57.1	7	1900	1188	686	
7	2	64.4	7	1090	-	599	
8	1	78.7	7	1089			
9	1	69.3	7	-	-	188	
10	3	55.3	7	1375	1691	933	
Detection Che	eck (1=Detection; 0	=No Detection)				1	

Trial Number			4					
Number of Bui	rsts in Trial		11					
Chirp Center F	Chirp Center Frequency			55	50			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)					
1	2	74.3	8	1642	-	24		
2	1	83.1	8	-	-	985		
3	2	59.5	8	1680	-	988		
4	2	59.8	8	1786	-	800		
5	2	77.6	8	1617	-	339		
6	2	79.9	8	1553	-	1040		
7	1	56	8	-	-	544		
8	3	71.4	8	1406	1927	452		
9	1	97.4	8 204					
10	2	98.3	8 1037 - 926					
11	1	63.6	8	-	-	1052		
<b>Detection Chec</b>	k (1=Detection; 0	=No Detection)				1		

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Trial Number	•			Ę	5	
Number of B	ursts in Trial		12			
Chirp Center Frequency				55	50	
Burst No. of Pulses Pulse Width (us)			Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)
1	1	50	9	-	-	557
2	2	62.5	9	1731	-	567
3	2	55.4	9	1070	-	460
4	1	65.7	9	-	-	4
5	2	58	9	1512	-	64
6	2	60.9	9	1230	-	650
7	3	89.6	9	1598	1738	235
8	3	84.4	9	1271	1617	873
9	3	72.3	9	1498	1321	901
10	1	58.9	9	663		
11	2	74.8	9	1584	-	919
12	1	71.8	9	-	-	375
Detection Che	eck (1=Detection; 0	=No Detection)	•	•	•	1

Trial Number	Trial Number			6			
Number of Bui	rsts in Trial		13				
Chirp Center F	Chirp Center Frequency			55	50		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)				
1	2	88.1	10	1257	-	846	
2	1	58.7	10	-	-	725	
3	2	97.1	10	1037	-	30	
4	3	83.1	10	1029	1106	490	
5	1	62.1	10	-	-	262	
6	2	71.4	10	1058	-	283	
7	2	86.3	10	1867	-	49	
8	3	77.3	10	1418	1876	634	
9	1	78.9	10	-	-	304	
10	3	79.2	10	1055	1572	564	
11	3	52	10	1582	1836	852	
12	3	56.5	10	1195	1542	525	
13	3	100	10	1638	1729	750	
<b>Detection Chec</b>	k (1=Detection; 0	=No Detection)				1	

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Trial Number	r			7	7		
Number of B	ursts in Trial		14				
Chirp Center Frequency				55	50		
Burst No. of Pulses Pulse Width (us)						Starting Location Within Interval (ms)	
1	2	92.7	11	1208	-	231	
2	2	81.3	11	1144	-	804	
3	2	60.4	11	1555	-	34	
4	2	62.1	11	1320	-	427	
5	1	50	11	-	-	577	
6	3	65.9	11	1020	1365	3	
7	2	73.8	11	1308	-	51	
8	2	74.3	11	1143	-	360	
9	1	62.9	11	-	-	394	
10	2	74.8	11	1404	-	317	
11	2	69.7	11	1309	-	532	
12	2	69.8	11	1688	-	339	
13	2	77.4	11	1857	-	381	
14	1	55.1	11	-	-	426	
Detection Che	eck (1=Detection; 0	=No Detection)				1	

Trial Number			8			
Number of Bu	rsts in Trial		15			
Chirp Center Frequency				55	50	
Burst	Burst No. of Pulses Pulse Width (us) Chirp Width Pulse 1-to-2 Spacing (us) Spacing (us)				Starting Location Within Interval (ms)	
1	1	91.7	12	-	-	776
2	2	90	12	1196	-	187
3	3	92.3	12	1486	1853	448
4	2	66.8	12	1545	-	702
5	1	64	12	-	-	403
6	3	95.4	12	1123	1473	230
7	3	66.8	12	1867	1401	604
8	3	67.7	12	1472	1397	38
9	1	68.2	12	-	-	735
10	2	82.2	12	1297	-	610
11	1	92.1	12	-	-	618
12	2	57	12	1764	-	705
13	2	58.5	12	1310	-	22
14	3	85.5	12	1630	1447	641
15	2	82.2	12	1371	-	109
<b>Detection Chec</b>	ck (1=Detection; C	=No Detection)				1

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Detection Check (1=Detection; 0=No Detection)

89.7

16

Trial Number	r			(	9		
Number of B	ursts in Trial		16				
Chirp Center Frequency				5550			
Burst No. of Pulses Pulse Width (us)				Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	2	74.4	13	1707	-	442	
2	2	63.6	13	1725	-	280	
3	2	71.3	13	1704	-	459	
4	3	77.6	13	1063	1405	197	
5	3	65.2	13	1731	1294	101	
6	3	55.1	13	1109	1549	17	
7	2	96.8	13	1034	-	131	
8	3	80.8	13	1533	1051	365	
9	1	60.4	13	-	-	222	
10	2	61.8	13	1312	-	371	
11	2	71.3	13 1657 -				
12	2	98.1	13 1024 -				
13	1	57.9	13	-	-	188	
14	1	91.8	13	-	-	163	
15	2	56.7	13	1259	-	426	

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Trial Number	r			1	0		
Number of B	ursts in Trial		17				
Chirp Center Frequency				55	50		
Burst No. of Pulses Pulse Width (us)			•	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	2	74.4	14	1107	-	462	
2	1	87.6	14	-	-	653	
3	2	61.7	14	1741	-	457	
4	2	57.5	14	1566	-	388	
5	2	66.1	14	1855	-	63	
6	3	70.1	14	1044	1012	136	
7	1	66.4	14	-	-	343	
8	1	59.2	14	-	-	349	
9	2	88.3	14	1240	-	362	
10	1	64.7	14	-	-	221	
11	2	73	14	1703	-	144	
12	2	81.7	14	1450	-	671	
13	3	70.1	14	1741	1278	320	
14	1	63.6	14	-	-	196	
15	1	58.7	14	-	-	413	
16	2	65.9	14	1478	-	170	

72.7

Detection Check (1=Detection; 0=No Detection)

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Detection Check (1=Detection; 0=No Detection)

Trial Number				11 18			
Number of Bur	sts in Trial						
Chirp Center Frequency				55	18		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Location (MHz) Spacing (us) Spacing (us) Within Interval (m				
1	2	72.1	15	1193	-	130	
2	3	76.3	15	1484	1390	114	
3	1	86.1	15	-	-	14	
4	1	73.2	15	-	-	604	
5	1	81.2	15	-	-	548	
6	2	99.5	15	1398	-	173	
7	1	93.9	15	-	-	262	
8	2	75.9	15	1921	-	38	
9	3	79.2	15	1100	1429	84	
10	3	77	15	1166	1799	610	
11	1	91.8	15	-	-	339	
12	3	56.8	15	1330	1556	580	
13	2	83.1	15	1556	-	295	

65.7

64.5

88.5

60.6

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Detection Check (1=Detection; 0=No Detection)

74.6

97.6

Trial Number	r			1	2		
Number of B	ursts in Trial		19				
Chirp Center	Chirp Center Frequency			55	18		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	2	90.5	16	1299	-	381	
2	2	88.4	16	1418	-	327	
3	2	53.7	16	1055	-	536	
4	1	80.5	16	-	-	285	
5	1	50.4	16	-	-	398	
6	2	61.2	16	1749	-	439	
7	2	78.8	16	1065	-	129	
8	3	75	16	1748	1820	325	
9	2	96.7	16	1254	-	440	
10	3	76.3	16	1848	1106	397	
11	1	73.3	16	-	-	232	
12	2	92.4	16	1317	-	91	
13	2	92.4	16	1854	-	256	
14	3	64.4	16	1240	1634	582	
15	2	67.3	16	1473	-	117	
16	2	84.1	16	1795	-	202	
17	1	80.9	16	-	-	135	
	1		The state of the s				

16

16

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Trial Number				1	3		
Number of B	ursts in Trial		20				
Chirp Center	Frequency			55	19		
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	66.1	17	1417	-	388	
2	2	86.7	17	1693	-	348	
3	2	70.5	17	1263	-	215	
4	2	78	17	1446	-	28	
5	2	66	17	1185	-	585	
6	2	80.6	17	1855	-	65	
7	1	95.5	17	-	-	92	
8	1	98.8	17	-	-	68	
9	3	64.3	17	1641	1108	517	
10	1	75.1	17	-	-	121	
11	2	72.6	17	1499	-	448	
12	1	60.3	17	-	-	567	
13	2	54.9	17	1056	-	245	
14	2	98.8	17	1023	-	584	
15	2	60.9	17	1243	-	579	
16	2	62.7	17	1226	-	464	
17	1	80.1	17	-	-	89	
18	2	70.9	17	1711	-	153	
19	1	90.7	17	-	-	282	
20	1	98.9	17	-	-	71	
Detection Che	eck (1=Detection; 0	=No Detection)				1	

Trial Number			14					
Number of Bu	Number of Bursts in Trial			3	3			
Chirp Center Frequency				55	20			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)				
1	2	67.5	20	1542	-	947		
2	3	83.6	20	1272	1696	124		
3	2	93.2	20	1877	-	701		
4	1	55.6	20	-	-	1123		
5	3	84.2	20	1733	1619	756		
6	3	69.1	20	1612	1071	1		
7	2	66.9	20	1905	-	7		
8	3	86.8	20 1697 1621 1082					
<b>Detection Che</b>	ck (1=Detection; 0	=No Detection)				0		

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Trial Number			15			
Number of Bu	rsts in Trial			9	9	
Chirp Center Frequency				55	20	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Spacing (us) Spacing (us) Starting Location Within Interval (m			
1	2	62.2	19	1571	-	949
2	2	85	19	1669	-	189
3	2	64.5	19	1505	-	176
4	2	50.4	19	1325	-	538
5	2	66.1	19	1483	-	908
6	2	71.2	19	1110	-	1017
7	3	53.7	19	1445	1677	492
8	3	62.5	19	1596	1341	349
9	3	62	19	1929	1221	1105
<b>Detection Chec</b>	k (1=Detection; 0	=No Detection)				1

Trial Number			16				
Number of Bu	rsts in Trial			10			
Chirp Center Frequency				55	19		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Location Spacing (us) Spacing (us) Within Interval (m				
1	2	80.5	18	1910	-	284	
2	2	64.2	18	1661	-	751	
3	2	90.1	18	1041	-	491	
4	2	69.8	18	1495	-	107	
5	1	73.1	18	-	-	490	
6	3	77.2	18	1418	1145	1155	
7	3	52.6	18	1732	1787	772	
8	2	71.4	18	1562	-	121	
9	2	89.8	18	1491	-	89	
10	2	76.4	18	1355	-	615	
<b>Detection Chec</b>	ck (1=Detection; 0	=No Detection)				1	

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Trial Numbe	r		17				
Number of B	ursts in Trial			11			
Chirp Center Frequency				5519			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)			
1	2	51.2	17	1236	-	740	
2	1	71.7	17	-	-	941	
3	2	74.7	17	1164	-	370	
4	2	50.9	17	1919	-	371	
5	2	65.2	17	1206	-	1033	
6	2	98	17	1182	-	346	
7	2	58.7	17	1612	-	639	
8	1	63.8	17	-	-	1056	
9	3	86.3	17	1545	1065	205	
10	1	94.4	17	-	-	753	
11	3	88.5	17	1699	1319	58	
Detection Che	eck (1=Detection; 0	=No Detection)	•		•	1	

Trial Number	rial Number			18			
Number of B	ursts in Trial		12				
Chirp Center	Chirp Center Frequency			55	18		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	2	88.7	16	1405	-	448	
2	3	90.2	16	1544	1235	621	
3	1	96.5	16	-	-	512	
4	2	80.5	16	1090	-	321	
5	2	63.7	16	1268	-	798	
6	1	53.4	16	-	-	809	
7	2	52.3	16	1043	-	301	
8	3	54.7	16	1701	1104	796	
9	3	75.6	16	1923	1729	669	
10	2	59.2	16	1244	-	369	
11	1	56.3	16	-	-	51	
12	2	87.8	16	1608	-	733	
Detection Che	eck (1=Detection; C	=No Detection)				1	

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Trial Numbe	Ī			1	9		
Number of B	ursts in Trial			13			
Chirp Center Frequency				55	18		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Location (MHz) Spacing (us) Spacing (us) Within				
1	2	68.2	15	1104		Interval (ms) 229	
· · · · · · · · · · · · · · · · · · ·					-		
2	2	58.4	15	1627	-	488	
3	3	74.7	15	1861	1015	137	
4	2	58.2	15	1593	-	520	
5	1	51.6	15	-	-	799	
6	2	94.7	15	1469	-	43	
7	2	70.7	15	1091	-	126	
8	2	82.9	15	1472	-	607	
9	3	62.7	15	1168	1453	527	
10	2	63.1	15	1529	-	143	
11	1	96.1	15	-	-	176	
12	2	57	15	1457	-	882	
13	3	95.6	15	1707	1501	214	
Detection Che	eck (1=Detection; 0	=No Detection)				1	

Trial Number			20				
Number of Bu	rsts in Trial		14				
Chirp Center Frequency				55	18		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)			
1	1	95.7	14	-	-	117	
2	1	93.1	14	-	-	720	
3	1	55.8	14	-	-	297	
4	1	76.7	14	-	-	284	
5	2	68	14	1686	-	472	
6	3	94.1	14	1796	1393	264	
7	2	53.9	14	1293	-	525	
8	1	99.3	14	-	-	155	
9	2	73.3	14	1458	-	65	
10	2	93.3	14	1196	-	451	
11	3	55.8	14	1895	1034	243	
12	1	66.4	14	-	-	228	
13	2	65.6	14	1732	-	746	
14	2	76.5	14	1187	-	522	
<b>Detection Chec</b>	k (1=Detection; 0	=No Detection)				1	

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rial Numbe	•			2	1		
lumber of B	ursts in Trial		15				
hirp Center Frequency				55	84		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Loca (MHz) Spacing (us) Spacing (us) Interva				
1	1	85.1	13	-	-	565	
2	2	72.5	13	1648	-	211	
3	1	67.5	13	-	-	348	
4	2	56.1	13	1360	-	156	
5	1	71.1	13	-	-	718	
6	2	93.1	13	1391	-	400	
7	1	56.5	13	-	-	482	
8	1	63.8	13	-	-	703	
9	2	67.4	13	1727	-	780	
10	1	52.3	13	-	-	102	
11	3	62.4	13	1228	1715	304	
12	2	53.3	13	1630	-	57	
13	2	83.1	13	1205	-	768	
14	2	93.7	13	1085	-	461	
15	2	90.7	13	1297	-	746	
etection Cho	eck (1=Detection; 0	=No Detection)				1	

Trial Number			22				
Number of Bu	rsts in Trial		16				
Chirp Center F	Chirp Center Frequency			55	84		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	2	98.8	12	1439	-	95	
2	1	54.5	12	-	-	676	
3	2	80.5	12	1360	-	8	
4	2	55.9	12	1906	-	373	
5	2	72.1	12	1623	-	254	
6	2	84.4	12	1604	-	480	
7	1	78.5	12	-	-	663	
8	1	88	12	-	-	314	
9	2	74.7	12	1157	-	596	
10	2	97.1	12	1673	-	264	
11	1	81.6	12	-	-	740	
12	1	83.6	12	-	-	163	
13	3	87.6	12	1757	1322	628	
14	2	58.5	12	1372	-	132	
15	3	91.8	12	1767	1183	106	
16	2	58.8	12	1432	-	659	
<b>Detection Chec</b>	ck (1=Detection; 0	=No Detection)				1	

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ial Numbe	r			2	3			
umber of B	mber of Bursts in Trial			17				
hirp Center Frequency				55	85			
Burst No. of Pulses Pulse Width (us)			Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)		
1	1	96	11	-	-	284		
2	2	92.5	11	1241	-	488		
3	2	89.5	11	1347	-	76		
4	2	74.8	11	1607	-	688		
5	2	60.6	11	1523	-	28		
6	2	71.5	11	1659	-	383		
7	2	71.1	11	1454	-	182		
8	1	98.7	11	-	-	20		
9	2	85.1	11	1770	-	576		
10	2	89.2	11	1086	-	410		
11	2	60.7	11	1101	-	458		
12	2	75.2	11	1719	-	348		
13	2	75.7	11	1799	-	481		
14	3	56.7	11	1132	1884	587		
15	2	65	11	1885	-	480		
16	2	64.6	11	1910	-	195		
		00.0		4.440	1100			

1410

1190

396

69.9

Detection Check (1=Detection; 0=No Detection)

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Detection Check (1=Detection; 0=No Detection)

68.4

Trial Number	•		24					
Number of B	nber of Bursts in Trial			18				
Chirp Center	Frequency			55	85			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)				
1	3	83.8	10	1290	1021	536		
2	2	66.9	10	1112	-	44		
3	3	91	10	1220	1504	611		
4	2	86.1	10	1678	-	456		
5	3	65.5	10	1928	1222	330		
6	1	62.6	10	-	-	297		
7	3	68.7	10	1505	1200	351		
8	3	59.2	10	1452	1114	230		
9	1	73.9	10	-	-	222		
10	1	77.2	10	-	-	57		
11	2	96.4	10	1357	-	399		
12	2	99.9	10	1173	-	299		
13	2	99.9	10	1520	-	464		
14	1	86.7	10	-	-	294		
15	1	92.6	10	-	-	653		
16	1	77.1	10	-	-	550		
17	2	81.1	10	1664	-	566		

10

1536

1309

580

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19

3

Detection Check (1=Detection; 0=No Detection)

69.7

62.2

Trial Numbe	r			2	5				
Number of B	lumber of Bursts in Trial			19					
Chirp Center				5585					
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2 Spacing (us) Spacing			Starting Location Within Interval (ms)			
1	3	68.2	9	1723	1868	471			
2	3	83.7	9	1711	1405	368			
3	2	69.7	9	1781	-	425			
4	1	59.7	9	-	-	440			
5	2	96.7	9	1484	-	123			
6	2	95.8	9	1319	-	261			
7	3	71.3	9	1095	1354	332			
8	3	53.2	9	1527	1427	427			
9	2	69.5	9	1771	-	397			
10	3	63.9	9	1075	1447	67			
11	2	93.4	9	1783	-	174			
12	2	77.3	9	1564	-	17			
13	2	73.1	9	1294	-	216			
14	1	77.4	9	-	-	292			
15	3	57.2	9	1722	1886	619			
16	2	68.7	9	1629	-	233			
17	1	60.8	9	-	-	226			

9

9

1128

1224

599

433

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Detection Check (1=Detection; 0=No Detection)

Trial Numbe	<u> </u>			2	6	
Number of B	ursts in Trial			2	0	
Chirp Center	Frequency			55	86	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)
1	1	80.5	8	-	-	90
2	3	62.6	8	1406	1343	319
3	3	85.6	8	1190	1529	384
4	2	83.9	8	1208	-	567
5	2	92.4	8	1488	-	234
6	2	54	8	1529	-	535
7	3	81.3	8	1501	1812	325
8	1	98.5	8	-	-	532
9	1	85.8	8	-	-	272
10	2	84.7	8	1593	-	182
11	2	83.3	8	1705	-	134
12	2	79.8	8	1567	-	286
13	1	77.9	8	-	-	368
14	3	98.4	8	1510	1569	290
15	2	79.9	8	1588	-	231
16	3	78	8	1140	1353	353
17	3	55.2	8	1700	1327	53
18	3	71.9	8	1081	1224	44
19	1	62	8	-	-	298
20	3	70.5	8	1888	1442	529

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Trial Number	Trial Number			27				
Number of Bu	ırsts in Trial		8					
Chirp Center	Frequency			55	82			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)		
1	2	69.1	18	1076	-	1436		
2	2	62.1	18	1688	-	22		
3	2	94.8	18	1891	-	897		
4	1	75.8	18	-	-	1186		
5	2	65.4	18	1713	-	589		
6	2	97.7	18	1292	-	614		
7	3	98.1	18 1670 1711 506					
8	2	85.4	18 1672 - 776					
<b>Detection Che</b>	ck (1=Detection; 0	=No Detection)				1		

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Trial Number Number of Bursts in Trial			28 9				
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	82	19	1233	1713	679	
2	3	87.7	19	1554	1123	473	
3	2	98.9	19	1518	-	869	
4	1	55	19	-	-	719	
5	1	93.6	19	-	-	902	
6	2	58.7	19	1641	-	1243	
7	2	88.7	19	1387	-	410	
8	1	60.3	19	-	-	1154	
9	1	97.7	19	512			

Trial Number  Number of Bursts in Trial			29 10				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Spacing (us)			Starting Location Within Interval (ms)	
1	1	69.6	20	-	-	1131	
2	1	74.5	20	-	-	290	
3	1	60.9	20	-	-	895	
4	1	74.6	20	-	-	202	
5	2	99.3	20	1501	-	139	
6	2	95.3	20	1065	-	854	
7	2	91.9	20	1722	-	219	
8	2	51	20	1285	-	57	
9	2	87.7	20	1747	-	141	
10	1	87.2	20	-	-	596	
Detection Che	eck (1=Detection; 0	=No Detection)				1	

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Detection Check (1=Detection; 0=No Detection)

Trial Number			30					
Number of B	ursts in Trial		11					
Chirp Center	Frequency			55	87			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Local Spacing (us) Spacing (us) With Interval Interval Chirp Width					
1	3	59.9	5	1901	1196	935		
2	2	77.1	5	1590	-	1038		
3	2	62.7	5	1227	-	690		
4	1	77.1	5	-	-	547		
5	3	99.8	5	1798	1790	551		
6	2	61.5	5	1135	-	876		
7	2	77.5	5	1583	-	448		
8	2	57.3	5	1890	-	736		
9	2	53.5	5	1757	-	362		
10	1	66.6	5	-	-	836		
11	3	80.7	5	1811	1289	410		

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Type 6 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulses / Hop	Pulse Width (us)	PRI (us)	1=Detection 0=No Detection
1	5550	9	1	333	1
2	5550	9	1	333	1
3	5550	9	1	333	1
4	5550	9	1	333	1
5	5550	9	1	333	1
6	5550	9	1	333	1
7	5550	9	1	333	1
8	5550	9	1	333	1
9	5550	9	1	333	1
10	5550	9	1	333	1
11	5550	9	1	333	1
12	5550	9	1	333	1
13	5550	9	1	333	1
14	5550	9	1	333	1
15	5550	9	1	333	1
16	5550	9	1	333	1
17	5550	9	1	333	1
18	5550	9	1	333	1
19	5550	9	1	333	1
20	5550	9	1	333	1
21	5550	9	1	333	1
22	5550	9	1	333	1
23	5550	9	1	333	1
24	5550	9	1	333	1
25	5550	9	1	333	1
26	5550	9	1	333	1
27	5550	9	1	333	1
28	5550	9	1	333	1
29	5550	9	1	333	1
30	5550	9	1	333	1
	100.000				
_imit	70%				
Test Resi	Complied				

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## 4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101026	9kHz~40GHz	Sep. 28, 2018	Sep. 27, 2019	Conducted (DF01-CB)
Vector Signal generator	R&S	SMU200A	102782	100kHz-6GHz	Jan. 16, 2019	Jan. 15, 2020	Conducted (DF01-CB)
RF Power Divider	ANAREN	2 Way	DFS-01-DV-02	1GHz ~ 6GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (DF01-CB)
RF Power Divider	MTJ	2 Way	DFS-01-DV-03	1GHz ~ 6GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (DF01-CB)
RF Power Divider	ANAREN	4 Way	DFS-01-DV-01	1GHz ~ 6GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-53	1 GHz –18 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-54	1 GHz –18 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-56	1 GHz –18 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-60	1 GHz –18 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (DF01-CB)

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

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## 5 Measurement Uncertainty

Test Items	Uncertainty	Remark
Conducted Emission	2.4 dB	Confidence levels of 95%

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