Report No.: FZ701623-01





FCC DFS TEST REPORT

FCC ID

: Z8H89FT0038

Equipment

: PTP550

Brand Name

: Cambium Networks

Model Name

: PTP550

Applicant

: Cambium Networks Inc.

3800 Golf Road, Suite 360 Rolling Meadows, IL

60008, USA

Manufacturer

: Cambium Networks Inc.

3800 Golf Road, Suite 360 Rolling Meadows, IL

60008, USA

Standard

· 47 CFR FCC Part 15.407

The product was received on Sep. 28, 2017, and testing was started from Jun. 04, 2018 and completed on Jun. 07, 2018. 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

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

TEL: 886-3-656-9065

FAX: 886-3-656-9085

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: Jul. 26, 2018

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Photographs of EUT v01

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History of this test report

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Report No.	Version	Description	Issued Date
FZ7O1623-01	01	Initial issue of report	Jul. 26, 2018

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Summary of Test Result

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Report Clause	Ref Std. 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	.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.

Reviewed by: Sam Chen Report Producer: Cindy Peng

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1 General Description

1.1 Information

1.1.1 RF General Information

Descript	tion			
5250 MHz – 5350 MHz				
5470 MHz – 5725 MHz				
WLAN (2TX, 2RX)				
Intentional Transceiver				
From PoE				
QPSK				
20/80 MHz operating channel bandwic	dth			
Client with radar detection				
	☐ Without TPC			
☐ With 5600~5650MHz	⊠ Without 5600~5650MHz			
For Antenna 1: Band 2: QPSK (20M): 23.68 dBm QPSK (80M): 20.23 dBm Band 3: QPSK (20M): 23.78 dBm QPSK (80M): 21.55 dBm For Antenna 2: Band 2: QPSK (20M): 7.96 dBm QPSK (80M): 7.96 dBm Band 3: QPSK (20M): 7.85 dBm				
	5250 MHz − 5350 MHz 5470 MHz − 5725 MHz WLAN (2TX, 2RX) Intentional Transceiver From PoE QPSK 20/80 MHz operating channel bandwid Master Client with radar detection Client without radar detection IP Based (Load Based) With TPC With 5600~5650MHz For Antenna 1: Band 2: QPSK (20M): 23.68 dBm QPSK (80M): 20.23 dBm Band 3: QPSK (20M): 23.78 dBm QPSK (80M): 21.55 dBm For Antenna 2: Band 2: QPSK (20M): 7.96 dBm QPSK (80M): 7.96 dBm QPSK (80M): 7.96 dBm Band 3:			

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Min. Con. Power (DFS band)	For Antenna 1:					
	Band 2:					
	QPSK (20M): 17.68 dBm					
	QPSK (80M): 14.23 dBm					
	Band 3:					
	QPSK (20M): 17.78 dBm					
	QPSK (80M): 15.55 dBm					
	For Antenna 2:					
	Band 2:					
	QPSK (20M): 1.96 dBm					
	QPSK (80M): 1.96 dBm					
	Band 3:					
	QPSK (20M): 1.85 dBm					
	QPSK (80M): 1.91 dBm					
Max. EIRP Power (DFS band)	For Antenna 1:					
	Band 2:					
	QPSK (20M): 25.68 dBm					
	QPSK (80M): 22.23 dBm					
	Band 3:					
	QPSK (20M): 25.78 dBm					
	QPSK (80M): 23.55 dBm					
	For Antenna 2:					
	Band 2:					
	QPSK (20M): 29.96 dBm					
	QPSK (80M): 29.96 dBm					
	Band 3:					
	QPSK (20M): 29.85 dBm					
	QPSK (80M): 29.91 dBm					
Min. EIRP Power (DFS band)	For Antenna 1:					
	Band 2:					
	QPSK (20M): 19.68 dBm					
	QPSK (80M): 16.23 dBm					
	Band 3: QPSK (20M): 19.78 dBm					
	QPSK (80M): 17.55 dBm					
	For Antenna 2:					
	Band 2:					
	QPSK (20M): 23.96 dBm					
	QPSK (80M): 23.96 dBm					
	Band 3:					
	QPSK (20M): 23.85 dBm					
	QPSK (80M): 23.91 dBm					
Power-on cycle	For Master:					
	QPSK (80M): Requires 44.783 seconds to complete its power-on cycle.					
	For Client without radar detection:					
	NA (No Channel Availability Check Function)					
Software / Firmware Version	4.1.1-RC5					
	ism and TPC have the capability to operate at least 6 dB below highest RF					
output power.	· · · · · · · · · · · · · · · · · · ·					
· · · · · · · · · · · · · · · · · · ·						

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Antenna & Band width

Antenna	Two (TX)			
Band width Mode	20 MHz	80 MHz		
QPSK	V	V		

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1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
4	1	-	-	- Printed Antenna		2
'	2	-	-	Printed Antenna	N/A	2
2	1	-	-	Printed Antenna	N/A	22
	2	-	-	Printed Antenna	N/A	22

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

Port 1 and Port 2 could transmit/receive simultaneously.

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

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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	5250 MHz	8	5290 MHz
	2	5260 MHz	9	5295 MHz
5250 5250 MILE	3	5265 MHz	10	5300 MHz
5250~5350 MHz Band 2	4	5270 MHz	11	5305 MHz
Ballu 2	5	5275 MHz	12	5310 MHz
	6	5280 MHz	13	5315 MHz
	7	5285 MHz	14	5320 MHz
	1	5500 MHz	17	5580 MHz
	2	5505 MHz	18	5585 MHz
	3	5510 MHz	19	5590 MHz
	4	5515 MHz	20	5595 MHz
	5	5520 MHz	21	5600 MHz
	6	5525 MHz	22	5605 MHz
	7	5530 MHz	23	5610 MHz
5470~5725 MHz	8	5535 MHz	24	5615 MHz
Band 3	9	5540 MHz	25	5620 MHz
	10		26	5625 MHz
	11	5550 MHz	27	5630 MHz
	12	5555 MHz	28	5635 MHz
	13	5560 MHz	29	5640 MHz
	14	5565 MHz	30	5645 MHz
	15	5570 MHz	31	5650 MHz
	16	5575 MHz	32	5720 MHz

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For 80MHz bandwidth systems:

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
5250 5250 MH=	1	5250 MHz	4	5300 MHz
5250~5350 MHz Band 2	2	5290 MHz	5	5305 MHz
Bariu 2	3	5295 MHz	6	5310 MHz
	1	5510 MHz	16	5585 MHz
	2	5515 MHz	17	5590 MHz
	3	5520 MHz	18	5595 MHz
	4		19	5600 MHz
	5	5530 MHz	20	5605 MHz
	6	5535 MHz	21	5610 MHz
5470~5725 MHz	7	5540 MHz	22	5615 MHz
5470~5725 M⊓2 Band 3	8	5545 MHz	23	5620 MHz
Bariu 3	9	5550 MHz	24	5625 MHz
	10	5555 MHz	25	5630 MHz
	11	5560 MHz	26	5635 MHz
	12	5565 MHz	27	5640 MHz
	13	5570 MHz	28	5645 MHz
	14	5575 MHz	29	5650 MHz
	15	5580 MHz	30	5720 MHz

Note: The antenna 2 doesn't support 5310MHz in 80MHz.

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1.1.4 Table for Class III Change

This product is an extension of original one reported under Sporton project number: 7O1623 Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Adding 5G Band 2	
(5250/5260/5265/5270/5275/5280/5285/5290/5295/5300/5305/5310/5315/5320)	
and 5G Band 3	All toot items
(5500/5505/5510/5515/5520/5525/5530/5535/5540/5545/5550/5555/5560/5565/5570/	All test items.
5575/5580/5585/5590/5595/5600/5605/5610/5615/5620/5625/5630/5635/5640/5645/	
5650/5720) only for 20M and 80M.	

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1.2 Accessories

N/A

1.3 Support Equipment

	Support Equipment								
No. Equipment Brand Name Model Name FCC ID									
1	Notebook	DELL	E4300	N/A					
2	Notebook	DELL	E4300	N/A					
3	Rx device	Cambium Networks	PTP550	Z8H89FT0038					
4	PoE	Cambium Networks	NET-P30-56IN	N/A					

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1.4 Testing Applied Standards

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

◆ FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

1.5 Testing Location Information

	Testing Location								
	HWA YA	ADD	:	No. 5	2, Huaya 1st R	Rd., Guish	an	Dist., Taoyuan City, Tai	wan (R.O.C.)
		TEL	TEL : 886-3-327-3456 FAX : 886-3-327-0973						
\boxtimes	JHUBEI	ADD	:	No.8,	Lane 724, Bo-	ai St., Jh	ube	ei City, HsinChu County	302, Taiwan, R.O.C.
	TEL: 886-3-656-9065 FAX: 886-3-656-9085								
Tes	Test Condition								
	DFS Site DF01-CB Gino Huang, Benson Su 25°C / 60% Jun. 04, 2018~Jun. 07, 20					Jun. 04, 2018~Jun. 07, 2018			

Test site Designation No. TW0006 with FCC

Test site registered number IC 4086D 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)		
QPSK (20M)	5550 MHz		
QPSK (80M)	5550 MHz		

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For Client without radar detection:

Test Channel Frequencies Configuration			
IEEE Std. Test Channel Freq. (MHz)			
QPSK (80M)	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 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.	
Modulation Mode	QPSK (20M), QPSK (80M)	

Note 1: All the specification of test configurations and test modes were based on customer'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-P30-56IN	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			
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	$Roundup \left\{ \left(\frac{1}{360} \right) \times \left(\frac{19 \times 10^6}{PRI} \right) \right\}$	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
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

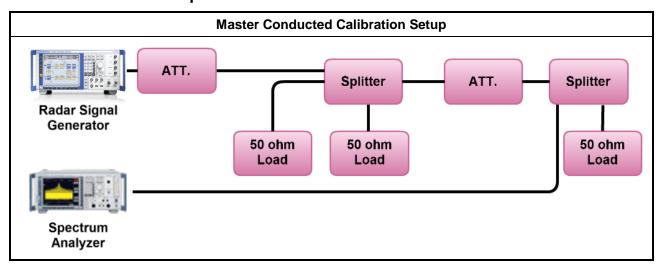
The FCC Type 6 waveform uses a static waveform with 100 bursts in the instruments ARB. In addition, the RF list mode is operated with a list containing 100 frequencies from a randomly generated list and it had be ensured that at least one of the random frequencies falls into the UNII Detection Bandwidth 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

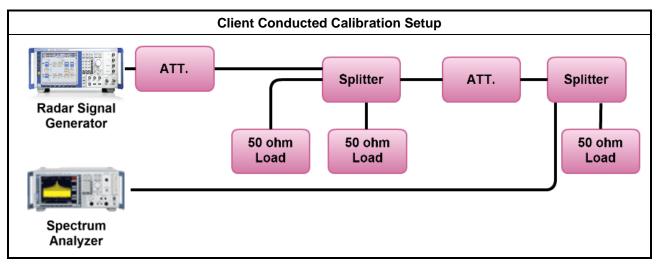
T						
DFS Threshold Level						
DFS Threshold level:	-61	dBm	at the antenna connector			
			in front of the antenna			
The Interference Radar Detection Threshold Level is is -64 dBm + 2 [dBi] + 1 dB = -61 dBm. That had been been taken into account the output power range and antenna gain.						

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3.2.5 Calibration Setup



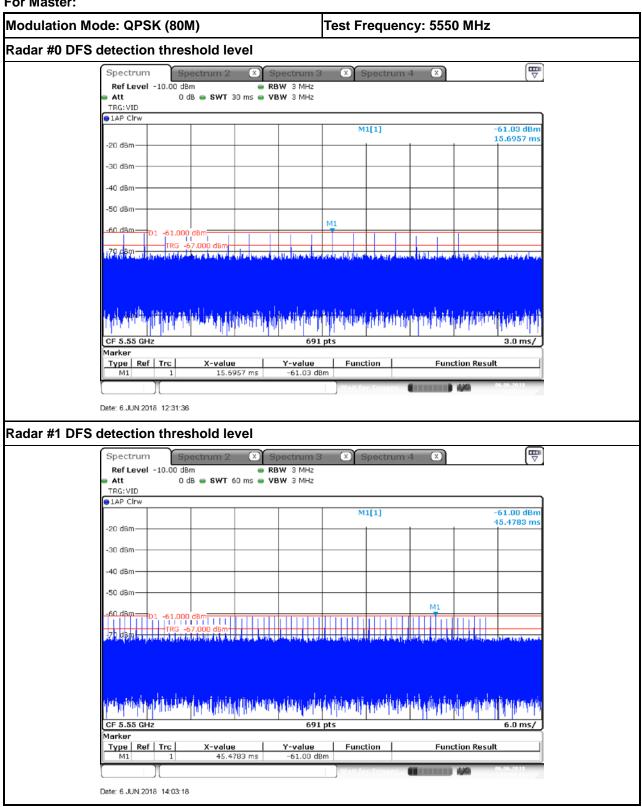
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3.2.6 **Radar Waveform calibration Plot**

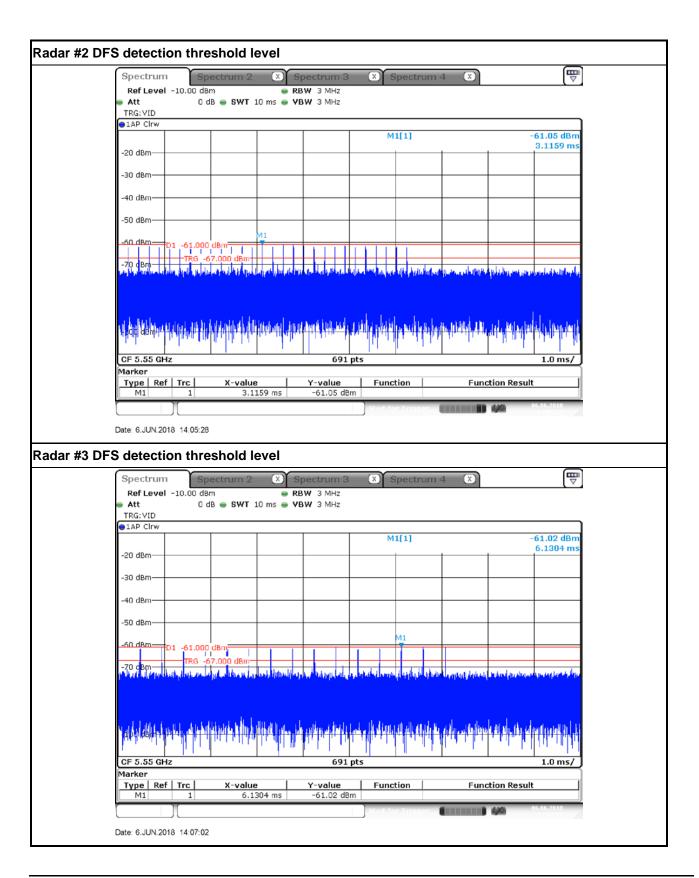
For Master:



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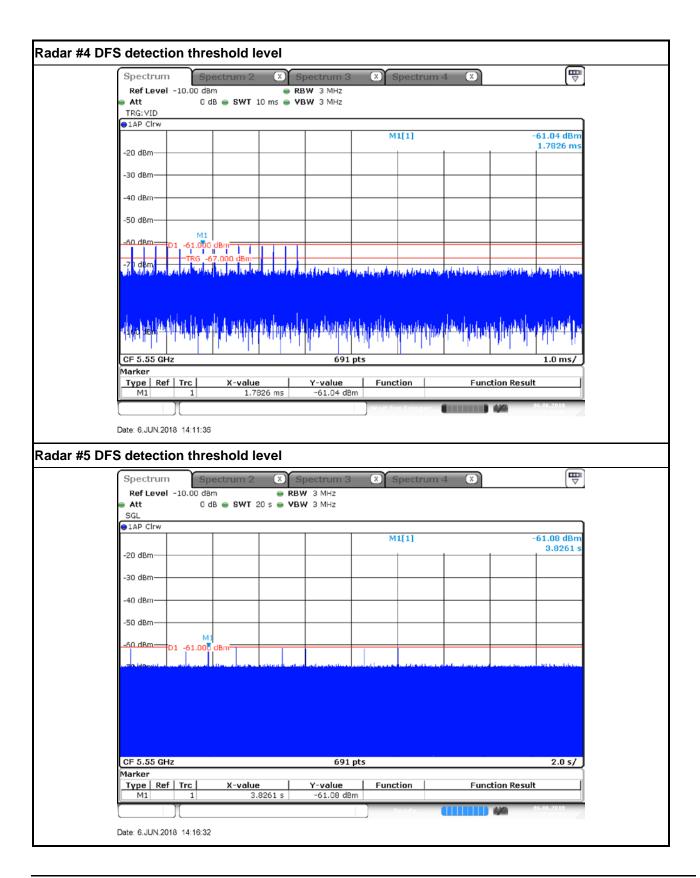
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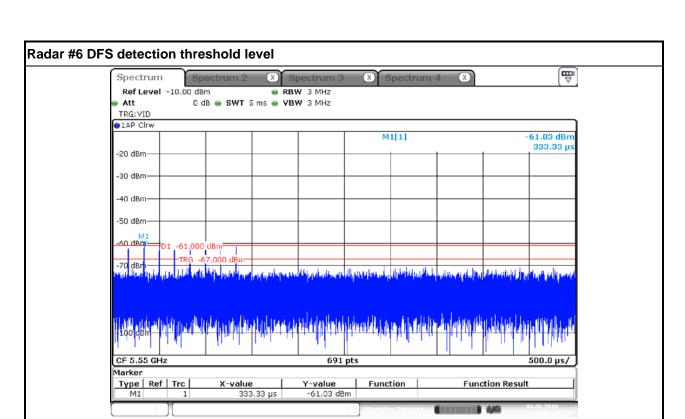
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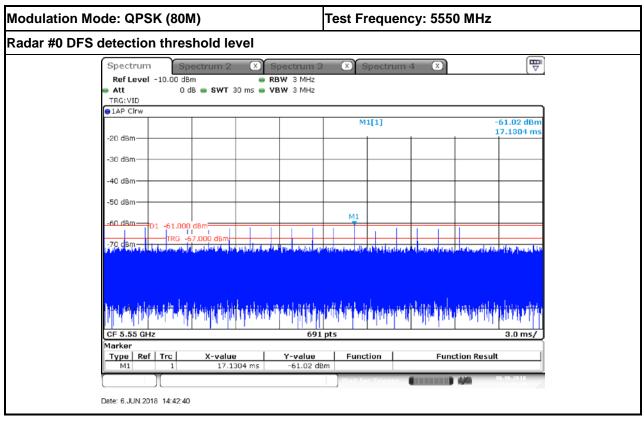
Date: 6.JUN.2018 14:25:59



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For Client without radar detection:



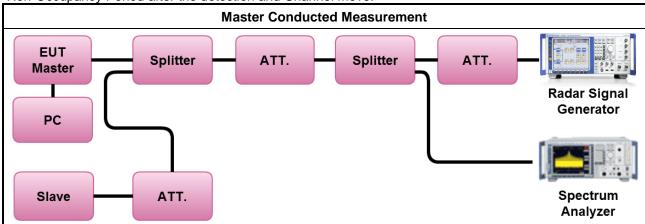
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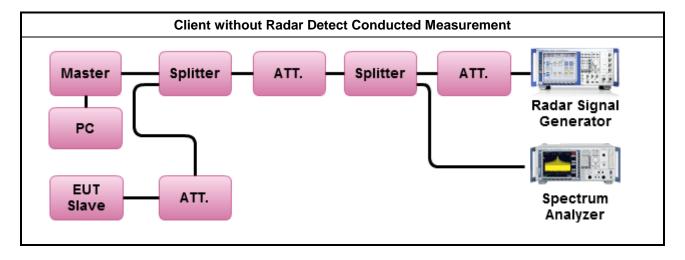
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3.2.7 Test Setup

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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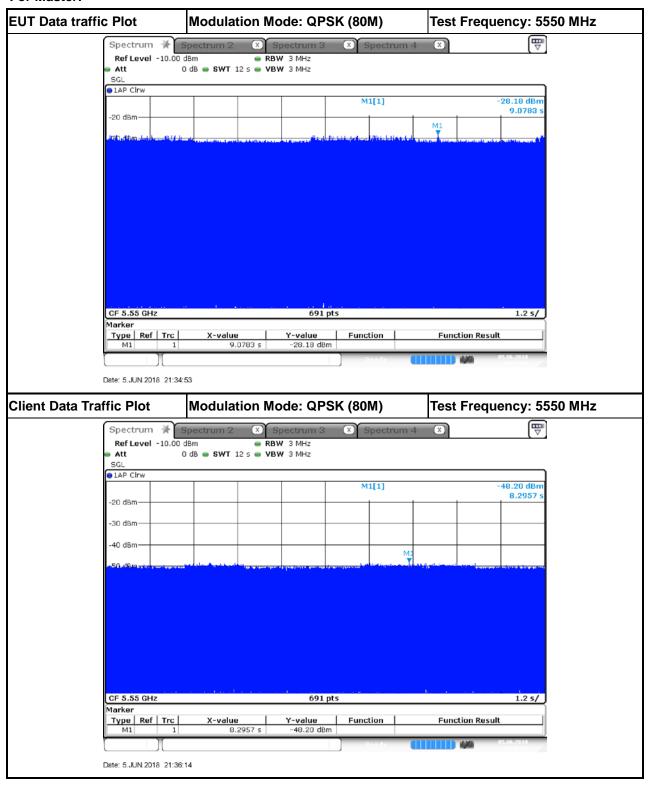


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3.2.8 Data traffic Plot

For Master:



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Date: 5.JUN.2018 21:36:59

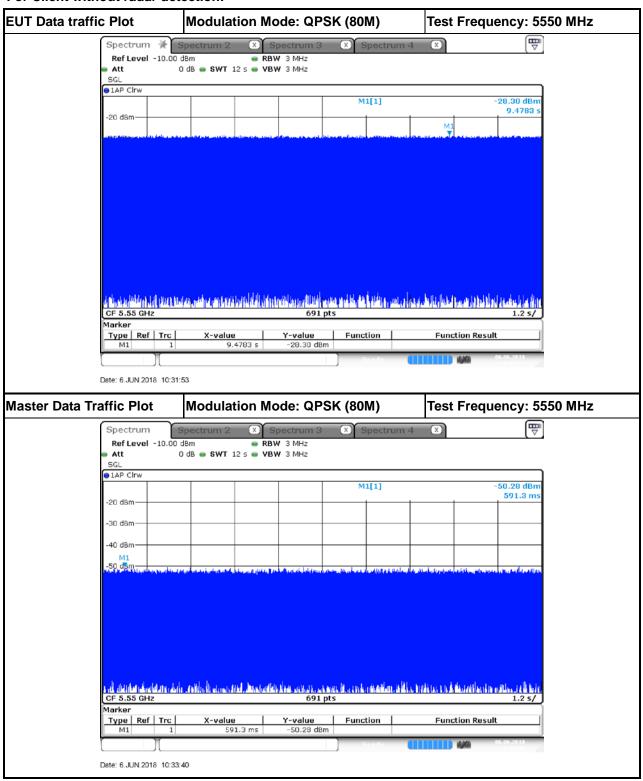
Without Data Traffic Plot Modulation Mode: QPSK (80M) Test Frequency: 5550 MHz Spectrum 3 Spectrum ■ RBW 3 MHz Ref Level -10.00 dBm Att 0 dB - SWT 12 s - VBW 3 MHz SGL ●1AP Clrw M1[1] 5.7739 s -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm CF 5.55 GHz 691 pts 1.2 s/ Marker X-value 5.7739 s Type Ref Trc **Y-value** -68.14 dBm Function **Function Result**

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For Client without radar detection:



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Date: 6.JUN.2018 10:35:18

Without Data Traffic Plot Modulation Mode: QPSK (80M) Test Frequency: 5550 MHz Spectrum 3 Spectrum Ref Level -10.00 dBm ■ RBW 3 MHz Att 0 dB - SWT 12 s - VBW 3 MHz SGL ●1AP Clrw M1[1] 1.8435 9 -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm CF 5.55 GHz 691 pts 1.2 s/ Marker Type Ref Trc **Y-value** -68.41 dBm Function **Function Result** X-value 1.8435 s

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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	18.147	19
80	76.121	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_H . The radar frequency is decreased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The lowest frequency at which detection is greater than or equal to 90% is denoted as F_L . UNII Detection Bandwidth = F_H - F_L .

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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 Detection)										
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5539	0	0	0	0	0	0	0	0	0	0	0
5540(FL)	1	1	1	1	1	1	1	0	1	1	90
5541	1	1	1	1	1	1	1	1	1	1	100
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	1	1	1	1	1	1	1	1	1	1	100
5560(FH)	1	1	0	1	1	1	1	1	1	1	90
5561 0 0 0 0 0 0 0 0 0								0			
Radar Type 0-Detection Bandwidth (MHz) = (FH-FL) = (5560MHz-5540MHz)=										20	
UNII Detection Bandwidth Min. Limit (MHz) =								19			
Test Result											Complied

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EUT Frequency=5550 MHz											
Channel Bandwidth (MHz)	80		quei	10 y = 0	7550	VII 12					
Ondriner Buriawiath (Miliz)	00	DF	S De	tection	on Tr	ials (1=De	tecti	on. 0	= No	Detection)
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5509	0	0	0	0	0	0	0	0	0	0	, O
5510(FL)	1	1	1	0	1	1	1	1	1	1	90
5511	1	1	1	1	1	1	1	1	1	1	100
5512	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
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
5587	1	1	1	1	1	1	1	1	1	1	100
5588	1	1	1	1	1	1	1	1	1	1	100
5589	1	1	1	1	1	1	1	1	1	1	100
5590(FH)	1	1	0	1	1	1	1	1	1	1	90
5591	0	0	0	0	0	0	0	0	0	0	0
Radar Type 0-Detection Bandwidth (I	Radar Type 0-Detection Bandwidth (MHz) = (FH-FL) = (5590MHz-5510MHz)=									80	
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.

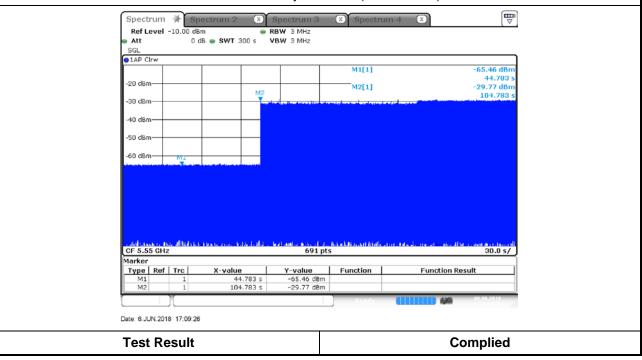
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3.4.4 Test Result of Initial Channel Availability Check Time

Modulation Mode	Freq.	Radar Test Signal
QPSK (80M)	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 (44.783 sec). The initial CAC time of the EUT is indicated by marker 1 (44.783 sec). Initial beacons/data transmissions are indicated by marker 2 (104.783 sec).



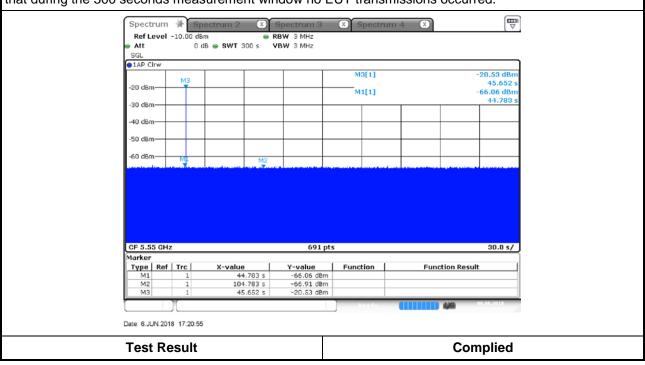
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3.4.5 Test Result of Radar Burst at the Beginning of the Channel Availability Check Time

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Modulation Mode	Freq. (MHz)	Radar Type Signal
QPSK (80M)	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 254.348 seconds after the radar Burst has been generated. Verify that during the 300 seconds measurement window no EUT transmissions occurred.



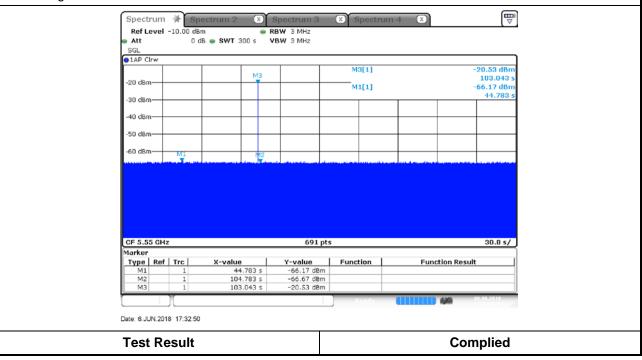
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3.4.6 Test Result of Radar Burst at the End of the Channel Availability Check Time

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Modulation Mode	Freq. (MHz)	Radar Type Signal
QPSK (80M)	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 196.957 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.
- For Master: 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 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.
 - For Client without radar detection: 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: QPSK (80M)

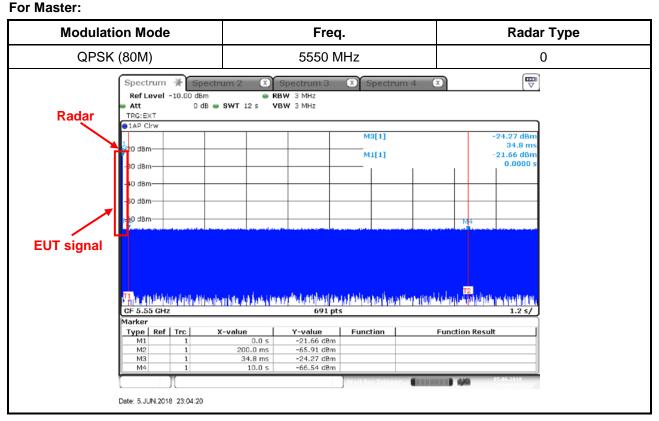
Parameter	Test Result	Limit	
Parameter	Type 0	Limit	
Test Channel (MHz)	5550 MHz	-	
Channel Move Time (sec.)	0.034	< 10s	

Report No.: FZ7O1623-01

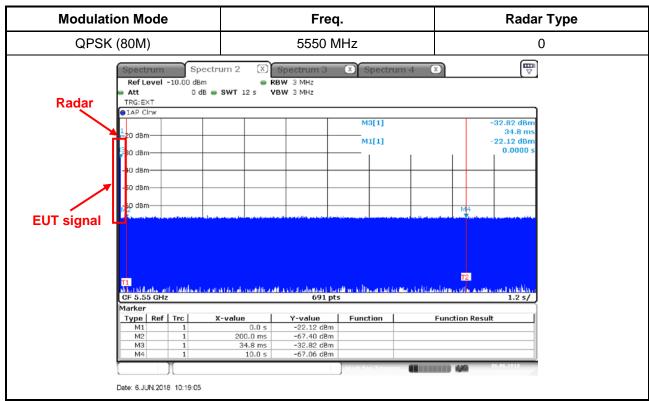
For Client without radar detection: Modulation Mode: QPSK (80M)

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

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For Client without radar detection:



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3.5.5 Test Result of Channel Closing Transmission Time

For Master:

Modulation Mode: QPSK (80M)

Doromotor	Test Result	Limit	
Parameter	Type 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.

For Client without radar detection: Modulation Mode: QPSK (80M)

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

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.

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For Master:

Modi	ulation Mode		Freq.			Radar Ty	pe	
QI	PSK (80M)		5550 MHz 0					
	Channel Closing Transmission Time is comprised of 200 ms starting at the beginning of the Channel Move Time plus 60ms additional intermittent control signals							
Radar	Spectrum Spectrum 2 X Spectrum 3 X Spectrum 4 X Ref Level -10.00 dBm							
	1-20 dBm-			M3[1]		-33.16 dBm 5.80 ms -24.43 dBm		
	-10 dBm					0.00000 s		
EUT signal	EUT signal							
	CF 5.55 GHz	salah baran kala	691 pts	4.4	illian Inc.	200.0 ms/		
	Marker		031 pts			230.0 11137		
	Type Ref Trc	X-value	Y-value	Function	Functi	on Result		
	M1 1 M2 1	0.0 s 200.0 ms	-24.43 dBm -66.55 dBm					
	M3 1	5.8 ms	-33.16 dBm					
				Wait for Trigger.		05.06.2018 22.00.011		
	Date: 5.JUN.2018 22:59:	Date: 5.JUN.2018 22:59:42						

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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		Freq.	Radar Type
Q	PSK (80M)	5550 MHz	0
	sing Transmission Tin Ims additional intermit		at the beginning of the Channel Mo
Radar	Spectrum Spectru Ref Level -10.00 dBm Att 0 dB 9 9 TRG:EXT	● RBW 3 MHz	4 X 🕎
	●1AP Clrw 1 1 1 1 1 1 0 dBm	M3[1] M1[1]	-25.94 dBm 40.58 ms -21.38 dBm 0.00000 s
/	-40 dBm		
EUT signal		ii) da siir saam eilkki is eil (U elsaka, ja disi klaava a siav ji ja esik siili isaaya eisaa Naad ah (Ad ja pa	
		691 pts	200.0 ms/
	CF 5.55 GHz Marker	691 pts	200.0 ms/
	CF 5.55 GHz Marker	-value	Function Result

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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: QPSK (80M)

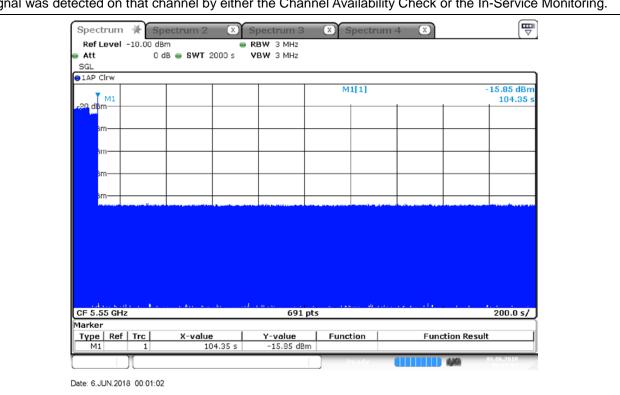
Dorometer	Test Result	Limit	
Parameter	Туре 0		
Test Channel (MHz)	5550 MHz	-	
Non-Occupancy Period (min.)	≧30	≥ 30 min	

Report No.: FZ7O1623-01

Modulation Mode	Freq.	
QPSK (80M)	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: QPSK (80M)

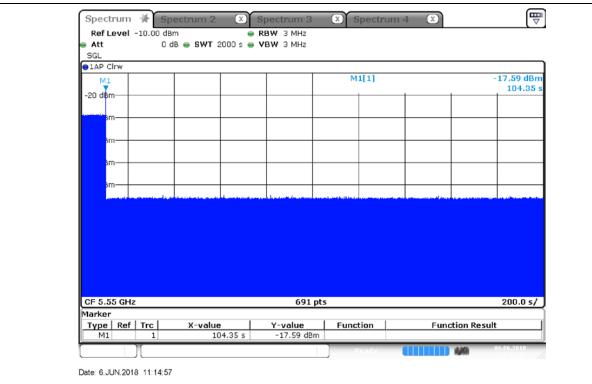
Parameter	Test Result	Limit	
Parameter	Туре 0		
Test Channel (MHz)	5550 MHz	-	
Non-Occupancy Period (min.)	≧30	≥ 30 min	

Report No.: FZ7O1623-01

Modulation Mode	Freq.	
QPSK (80M)	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.



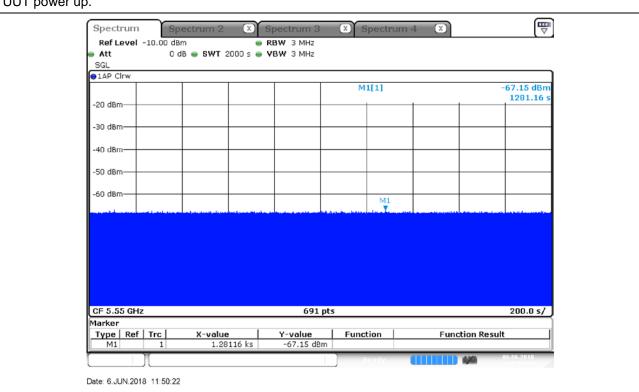
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Non-associated test

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:

 $\frac{TotalWaveformDetections}{-} \times 100 = Probability of Detection Radar Waveform$ 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: QPSK (20M)

Type 1 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Repetition Frequency Number	(Pulse Per Second)	PRI (us)	1=Detection 0=No Detection
1	5556	1	1930.5	518	1
2	5546	23	326.2	3066	1
3	5552	19	1139.0	878	1
4	5554	12	1355.0	738	1
5	5555	4	1730.1	578	1
6	5550	8	1519.8	658	1
7	5558	15	1253.1	798	1
8	5560	6	1618.1	618	1
9	5552	14	1285.3	778	1
10	5556	3	1792.1	558	1
11	5555	13	1319.3	758	1
12	5555	9	1474.9	678	1
13	5550	7	1567.4	638	1
14	5554	17	1193.3	838	1
15	5542	10	1432.7	698	1
16	5553	-	1692.0	591	0
17	5557	-	328.1	3048	1
18	5548	-	373.4	2678	1
19	5556	-	574.4	1741	1
20	5558	-	1216.5	822	1
21	5546	-	801.3	1248	1
22	5556	-	488.5	2047	1
23	5554	-	956.0	1046	1
24	5541	-	517.6	1932	1
25	5541	-	1422.5	703	0
26	5545	-	542.0	1845	1
27	5541	-	741.3	1349	1
28	5558	-	881.8	1134	1
29	5547	-	427.4	2340	1
30	5551	-	628.9	1590	1
,		etection Percentage (93.333
Limit		<u> </u>			60%
Test Res	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	5542	2.6	221	23	1
2	5550	4.6	198	27	1
3	5554	1.1	184	29	1
4	5554	4.8	203	24	1
5	5542	2.4	162	25	1
6	5548	3.4	204	28	1
7	5542	2.3	170	27	1
8	5541	3.5	184	23	1
9	5543	4.9	150	27	1
10	5545	4.6	211	29	1
11	5551	2.9	158	23	1
12	5550	2.6	226	27	1
13	5552	1.6	204	26	1
14	5554	3.9	181	25	0
15	5549	4.6	202	24	1
16	5545	4.1	194	27	1
17	5553	2.3	193	28	1
18	5540	3.9	173	29	1
19	5559	4.3	188	23	1
20	5559	1.5	215	26	1
21	5550	4.9	227	27	1
22	5557	1.1	199	23	1
23	5557	4.5	155	29	1
24	5541	4.0	190	27	1
25	5544	2.4	151	23	1
26	5554	2.5	180	28	0
27	5553	2.5	228	23	1
28	5543	2.5	203	25	1
29	5555	1.5	188	25	1
30	5541	1.9	217	24	1
'	D	etection Percentage (9	%)		93.333
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	5548	8.0	205	16	1
2	5545	6.7	382	18	1
3	5545	8.6	418	16	1
4	5555	9.4	351	17	1
5	5559	7.4	383	18	1
6	5550	9.8	232	16	1
7	5558	9.1	377	17	1
8	5546	9.6	457	16	1
9	5554	8.0	471	18	0
10	5544	9.0	304	18	1
11	5557	8.0	316	17	1
12	5546	9.8	325	16	1
13	5557	8.0	409	17	1
14	5558	9.9	200	17	1
15	5554	8.8	458	16	1
16	5543	8.0	232	18	0
17	5551	8.3	250	16	1
18	5543	8.7	270	16	1
19	5560	7.7	350	17	1
20	5556	7.1	230	16	1
21	5548	7.3	416	18	1
22	5554	7.6	498	18	1
23	5559	7.3	286	17	1
24	5555	7.3	287	16	1
25	5543	7.5	462	17	1
26	5551	6.2	300	17	1
27	5546	6.4	323	18	1
28	5555	7.1	420	16	1
29	5559	7.2	395	18	1
30	5560	8.4	377	16	1
'	D	etection Percentage (%)		93.333
imit		0 \	•		60%
est Resu	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	5547	18.0	242	15	1
2	5544	19.9	279	12	1
3	5551	12.9	487	14	1
4	5557	15.0	452	13	1
5	5549	16.3	230	12	1
6	5541	19.8	238	13	1
7	5560	18.2	420	16	1
8	5542	16.3	452	15	1
9	5541	14.2	495	12	1
10	5553	17.8	228	16	1
11	5549	19.1	211	16	1
12	5555	18.4	283	15	1
13	5551	11.8	411	12	1
14	5540	14.2	284	13	1
15	5551	13.9	202	12	1
16	5554	17.8	340	14	1
17	5558	15.6	290	16	1
18	5549	14.6	250	16	1
19	5545	14.4	484	15	1
20	5545	18.9	387	13	1
21	5541	11.1	348	15	0
22	5544	13.8	291	16	1
23	5552	14.3	295	12	1
24	5545	12.5	300	12	1
25	5548	12.5	322	14	1
26	5542	12.5	383	13	1
27	5542	15.7	322	16	0
28	5554	19.8	469	13	1
29	5544	18.6	406	15	1
30	5558	15.9	238	14	1
	D	etection Percentage (%	6)		93.333
mit		<u> </u>			60%
est Resu	ult				Complied

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Total Type 1~4 Radar Statistical Performance

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

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Type 5 Radar Statistical Performance

enter Freq. (MHz)	Low Edge (MHz)	High Edge (MHz)		
5500	5540	5560	VSG Freq. (MHz)	Detection
Trial	Chirp	Offset		
1	5	0	5550	1
2	20	0	5550	1
3	7	0	5550	1
4	8	0	5550	1
5	9	0	5550	1
6	10	0	5550	1
7	11	0	5550	1
8	12	0	5550	1
9	13	0	5550	1
10	14	0	5550	1
11	15	6	5546	1
12	16	6.4	5546	1
13	17	6.8	5547	1
14	20	8	5548	1
15	19	7.6	5548	1
16	18	7.2	5547	1
17	17	6.8	5547	1
18	16	6.4	5546	1
19	15	6	5546	1
20	14	5.6	5546	1
21	13	5.2	5555	1
22	12	4.8	5555	1
23	11	4.4	5556	1
24	10	4	5556	1
25	9	3.6	5556	1
26	8	3.2	5557	1
27	18	7.2	5553	1
28	19	7.6	5552	1
29	20	8	5552	1
30	5	2	5558	1
	To	otal		30
	Detection Per	centage (%)		100%
nit				80%
st Result				Complied

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Trial Number	Trial Number Number of Bursts in Trial			1 8				
Number of B								
Chirp Center	· Frequency			55	50			
Burst	No. of Pulses	Pulso Width Chirn Width Pulso 1-to-2				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	Number of Bursts in Trial			9				
Chirp Center F	requency			55	50			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	<u> </u>				
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	548				
Detection Chec	k (1=Detection; C	=No Detection)				1		

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Trial Number	r		3					
Number of B	lumber of Bursts in Trial			10				
Chirp Center	Frequency			55	50			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Chirp Width Pulse 1-to-2 Pulse 2-to-3				
1	3	63.4	7	1574	1607	Interval (ms) 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 9					
Detection Che	eck (1=Detection; 0	=No Detection)	•	•	•	1		

Trial Number				4	1			
Number of Bui	Number of Bursts in Trial			11				
Chirp Center F	Chirp Center Frequency			55	50			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)				
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 - 9					
11	1	63.6	8	-	-	1052		
Detection Chec	k (1=Detection; 0	=No Detection)				1		

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Trial Number	•		5				
Number of B	umber of Bursts in Trial			12			
Chirp Center	Frequency			55	50		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Chirp Width Pulse 1-to-2 Pulse 2-to-3			
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	919			
12	1	71.8	9	-	-	375	
Detection Che	eck (1=Detection; 0	=No Detection)				1	

Trial Number	Trial Number			6				
Number of Bu	rsts in Trial		13					
Chirp Center F	Chirp Center Frequency			55	50			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Chirp Width Pulse 1-to-2 Pulse 2-to-3				
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		
Detection Chec	k (1=Detection; C	=No Detection)				1		

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Trial Numbe	r			7	7			
Number of B	ursts in Trial		14					
Chirp Center	Chirp Center Frequency			5550				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	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; C	=No Detection)	•		•	1		

Trial Number				8	3			
Number of B	ursts in Trial		15					
Chirp Center	Chirp Center Frequency			55	50			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Chirp Width Pulse 1-to-2 Pulse 2-to-3				
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		
Detection Che	ck (1=Detection; 0	=No Detection)				1		

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

89.7

16

Trial Numbe	r			9	9		
Number of B	ursts in Trial		16				
Chirp Center	Frequency			55	50		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	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				
14	1	91.8	13	-	-	163	
15	2	56.7	13	1259	-	426	

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17

2

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

Trial Number	•			1	0			
Number of B	ursts in Trial			17				
Chirp Center	Chirp Center Frequency			55	50			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Location Spacing (us) Spacing (us) Within					
1	2	74.4	14	1107	_	Interval (ms) 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		

14

14

14

1478

58.7

65.9

72.7

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18

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

Trial Numbe	r		11 18				
Number of B	ursts in Trial						
Chirp Center	Frequency			5546			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Locat Spacing (us) Spacing (us) With			Starting Location Within Interval (ms)	
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	

15

15

15

64.5

88.5

60.6

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

Trial Number				1	2		
Number of B	ursts in Trial		19				
Chirp Center	Chirp Center Frequency			55	46		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Loca (MHz) Spacing (us) Spacing (us) Wit Interva				
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	

16

16

1805

74.6

97.6

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

rial Numbei	•			1	3			
umber of B	ursts in Trial		20					
hirp 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	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				
Number of Bu	ırsts in Trial			8				
Chirp Center	Chirp Center Frequency			55	48			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Loc (MHz) Spacing (us) Spacing (us) Wilnterv					
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					
Detection Che	ck (1=Detection; 0	=No Detection)			•	1		

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Trial Number				15 9			
Number of B	ursts in Trial						
Chirp Center Frequency				55	48		
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 (i				
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				
Detection Che	ck (1=Detection; 0	=No Detection)				1	

Trial Number				16 10			
Number of Bu	ırsts in Trial						
Chirp Center Frequency				55	47		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	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	ı	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	
Detection Che	ck (1=Detection; 0	=No Detection)				1	

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Trial Number				17 11			
Number of B	ursts in Trial						
Chirp Center Frequency				55	47		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Loca (MHz) Spacing (us) Spacing (us) With			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	ck (1=Detection; 0	=No Detection)				1	

Trial Number			18			
Number of Bui	rsts in Trial		12			
Chirp Center F	Chirp Center Frequency			55	46	
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	-	-	51
12	2	87.8	16	1608	-	733
Detection Chec	k (1=Detection; 0	=No Detection)				1

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Trial Number	•			1	9		
Number of B	ursts in Trial		13				
Chirp Center	Chirp Center Frequency			55	46		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Location (MHz) Spacing (us) Spacing (us) Within				
				1101		Interval (ms)	
11	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; C	=No Detection)				1	

Trial Number			20				
Number of Bu	rsts in Trial		14				
Chirp Center F	Chirp Center Frequency			55	46		
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	
Detection Chec	ck (1=Detection; C	=No Detection)				1	

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rial Numbe	•			2	1		
lumber of B	ursts in Trial		15				
hirp Center	nirp Center Frequency			55	55		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	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	
etection Che	eck (1=Detection; 0	=No Detection)				1	

Trial Number				22			
Number of Bu	rsts in Trial		16				
Chirp Center I	Frequency		5555				
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 Chec	ck (1=Detection; C	=No Detection)	•			1	

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rial Numbe	r			2	3		
lumber of B	ursts in Trial		17				
Chirp Center	r Frequency			5556			
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	
	_		4.4		4400		

1410

1190

396

69.9

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

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3

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

68.4

Trial Number	r			2	4		
Number of B	ursts in Trial		18				
Chirp Center	Frequency			55	56		
Burst	Pulse		Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 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 Numbe	•			2	5		
Number of B	ursts in Trial		19				
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	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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Detection Check (1=Detection; 0=No Detection)

rial Number	•			2	6		
lumber of B	ursts in Trial		20				
hirp Center	Frequency			55	57		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)		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	

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Trial Number			27				
Number of Bu	ırsts in Trial			8			
Chirp Center	Chirp Center Frequency			5553			
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 - 6				
7 3 98.1			18	1670	1711	506	
8	2	85.4	18	1672	-	776	
Detection Che	ck (1=Detection; 0	=No Detection)				1	

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Trial Number	r		28					
Number of B	ursts in Trial			9				
Chirp Center Frequency				55	52			
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	9 1 97.7			-	-	512		
Detection Ch	eck (1=Detection; 0	=No Detection)				1		

Trial Number	•			2	9		
Number of B	ursts in Trial		10				
Chirp Center Frequency				55	52		
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 Che	eck (1=Detection; C	=No Detection)				1	

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

Trial Number				3	0		
Number of B	ursts in Trial		11				
Chirp Center Frequency			5558				
Burst No. of Pulses Pulse Width (us)			Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		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 - 7				
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
		etection Percenta	age (%)		100.00
imit			<u> </u>		70%
est Res	ult				Complied

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Modulation Mode: QPSK (80M)

Type 1 Radar Statistical Performance

Trial #	adar Statistical Perf	Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulse Per Second)	PRI (us)	1=Detection 0=No Detection
1	5557	1	1930.5	518	1
2	5553	23	326.2	3066	1
3	5513	19	1139.0	878	1
4	5548	12	1355.0	738	1
5	5539	4	1730.1	578	1
6	5561	8	1519.8	658	1
7	5534	15	1253.1	798	1
8	5577	6	1618.1	618	1
9	5553	14	1285.3	778	1
10	5575	3	1792.1	558	1
11	5580	13	1319.3	758	1
12	5551	9	1474.9	678	1
13	5544	7	1567.4	638	1
14	5534	17	1193.3	838	1
15	5533	10	1432.7	698	1
16	5572	-	1692.0	591	1
17	5514	-	328.1	3048	1
18	5550	-	373.4	2678	0
19	5565	-	574.4	1741	1
20	5545	-	1216.5	822	1
21	5533	-	801.3	1248	1
22	5552	-	488.5	2047	0
23	5540	-	956.0	1046	1
24	5557	-	517.6	1932	1
25	5587	-	1422.5	703	1
26	5556	-	542.0	1845	1
27	5589	-	741.3	1349	1
28	5582	-	881.8	1134	1
29	5536	-	427.4	2340	1
30	5560		628.9	1590	1
		Detection Percentage	(%)		93.333
Limit					60%
Test Res	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	5553	2.6	221	23	1
2	5540	4.6	198	27	1
3	5517	1.1	184	29	1
4	5530	4.8	203	24	1
5	5568	2.4	162	25	1
6	5563	3.4	204	28	1
7	5533	2.3	170	27	1
8	5573	3.5	184	23	0
9	5586	4.9	150	27	1
10	5563	4.6	211	29	1
11	5584	2.9	158	23	1
12	5532	2.6	226	27	1
13	5576	1.6	204	26	1
14	5547	3.9	181	25	1
15	5557	4.6	202	24	1
16	5510	4.1	194	27	1
17	5566	2.3	193	28	1
18	5560	3.9	173	29	1
19	5521	4.3	188	23	1
20	5531	1.5	215	26	1
21	5556	4.9	227	27	1
22	5538	1.1	199	23	1
23	5543	4.5	155	29	1
24	5573	4.0	190	27	1
25	5585	2.4	151	23	1
26	5557	2.5	180	28	1
27	5548	2.5	228	23	1
28	5568	2.5	203	25	1
29	5513	1.5	188	25	1
30	5580	1.9	217	24	1
'	D	etection Percentage (%)		96.667
imit					60%
est Resu	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	5539	8.0	205	16	1
2	5512	6.7	382	18	1
3	5541	8.6	418	16	1
4	5538	9.4	351	17	1
5	5563	7.4	383	18	1
6	5512	9.8	232	16	1
7	5589	9.1	377	17	1
8	5567	9.6	457	16	1
9	5585	8.0	471	18	1
10	5533	9.0	304	18	1
11	5551	8.0	316	17	1
12	5526	9.8	325	16	1
13	5527	8.0	409	17	1
14	5580	9.9	200	17	1
15	5554	8.8	458	16	1
16	5540	8.0	232	18	1
17	5530	8.3	250	16	1
18	5544	8.7	270	16	0
19	5531	7.7	350	17	1
20	5572	7.1	230	16	1
21	5552	7.3	416	18	1
22	5521	7.6	498	18	1
23	5533	7.3	286	17	1
24	5578	7.3	287	16	1
25	5585	7.5	462	17	1
26	5552	6.2	300	17	1
27	5560	6.4	323	18	1
28	5532	7.1	420	16	1
29	5511	7.2	395	18	1
30	5555	8.4	377	16	1
'	D	etection Percentage (%)		96.667
imit	60%				
est Resu	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	5511	18.0	242	15	1
2	5565	19.9	279	12	1
3	5519	12.9	487	14	0
4	5578	15.0	452	13	1
5	5587	16.3	230	12	1
6	5520	19.8	238	13	1
7	5573	18.2	420	16	1
8	5584	16.3	452	15	1
9	5569	14.2	495	12	1
10	5582	17.8	228	16	1
11	5547	19.1	211	16	1
12	5569	18.4	283	15	1
13	5541	11.8	411	12	1
14	5587	14.2	284	13	1
15	5562	13.9	202	12	1
16	5547	17.8	340	14	1
17	5554	15.6	290	16	1
18	5560	14.6	250	16	1
19	5588	14.4	484	15	1
20	5538	18.9	387	13	0
21	5562	11.1	348	15	1
22	5512	13.8	291	16	1
23	5563	14.3	295	12	1
24	5542	12.5	300	12	1
25	5528	12.5	322	14	1
26	5517	12.5	383	13	1
27	5520	15.7	322	16	1
28	5531	19.8	469	13	1
29	5557	18.6	406	15	1
30	5572	15.9	238	14	1
	De	etection Percentage (%	%)		93.333
imit		0 \	•		60%
est Resu	Complied				

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Total Type 1~4 Radar Statistical Performance

Radar Type #	Detection Percentage (%)
1	93.333
2	96.667
3	96.667
4	93.333
Aggregate (Radar Types 1-4)	95.000
Limit	80%
Test Result	Complied

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Type 5 Radar Statistical Performance

enter Freq. (MHz)	Low Edge (MHz)	High Edge (MHz)		
5550	5510	5590	VSG Freq. (MHz)	Detection
Trial	Chirp	Offset		
1	5	0	5550	1
2	20	0	5550	1
3	7	0	5550	1
4	8	0	5550	1
5	9	0	5550	1
6	10	0	5550	1
7	11	0	5550	1
8	12	0	5550	1
9	13	0	5550	1
10	14	0	5550	1
11	15	6	5516	1
12	16	6.4	5516	1
13	17	6.8	5517	1
14	20	8	5518	1
15	19	7.6	5518	1
16	18	7.2	5517	1
17	17	6.8	5517	1
18	16	6.4	5516	1
19	15	6	5516	1
20	14	5.6	5516	1
21	13	5.2	5585	1
22	12	4.8	5585	1
23	11	4.4	5586	1
24	10	4	5586	1
25	9	3.6	5586	1
26	8	3.2	5587	1
27	18	7.2	5583	1
28	19	7.6	5582	1
29	20	8	5582	1
30	5	2	5588	1
	To	otal		30
	Detection Per			100%
nit		U ()		80%
est Result				Complied

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Trial Number	Ī		1					
Number of B	Number of Bursts in Trial			8				
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	1089				
7	2	59.5	5	1374				
8	2	52.2	5	5 1653 -				
Detection Che	eck (1=Detection; 0	=No Detection)				1		

Trial Number			2				
Number of Bur	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	-	-	429	
8	2	60.3	20	1931	-	936	
9	3	92.9	20	1403	1476	548	
Detection Chec	k (1=Detection; C	=No Detection)				1	

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Trial Number	r		3				
Number of Bursts in Trial				10			
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	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 Bu	rsts in Trial		11					
Chirp Center I	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		
Detection Chec	ck (1=Detection; 0	=No Detection)				1		

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Trial Number	•			Ę	5		
Number of B	Number of Bursts in Trial Chirp Center Frequency			12			
Chirp Center				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	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			6					
Number of Bu	Number of Bursts in Trial			13				
Chirp Center F	Chirp Center Frequency			55	50			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Chirp Width Pulse 1-to-2 Pulse 2-to-3				
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		
Detection Chec	k (1=Detection; C	=No Detection)				1		

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Trial Number				7	7		
Number of B	lumber of Bursts in Trial			14			
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	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 Bur	sts in Trial		15					
Chirp Center F	requency			55	50			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	- I				
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		
Detection Chec	k (1=Detection; 0	=No Detection)				1		

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

89.7

16

Trial Numbe	r			9	9		
Number 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 Interval (
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	

13

1690

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17

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

Trial Number	r			10				
Number of B	ursts in Trial		17					
Chirp Center	Frequency			5550				
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					
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		

14

14

1478

65.9

72.7

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

al Numbei	•			1	1		
ımber of B	ursts in Trial		18				
irp Center	· Frequency			5516			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Local (MHz) Spacing (us) Spacing (us) With the control of the			Starting Location Within Interval (ms)	
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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Detection Check (1=Detection; 0=No Detection)

Trial Number	•		12 19				
Number of B	ursts in Trial						
Chirp Center	Chirp Center Frequency			55	16		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Local (MHz) Spacing (us) Spacing (us) With				
						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	

64.4

67.3

84.1

80.9

74.6

97.6

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

	rial Number			13				
Number of Bu	rsts in Trial		20					
Chirp Center F	requency			55	17			
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		

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Trial Number				14 8			
Number of B	ursts in Trial						
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	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	
Detection Che	eck (1=Detection; 0	=No Detection)	•		•	1	

17

98.9

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Trial Number	r		15					
Number of B	ursts in Trial			9				
Chirp Center Frequency				55	18			
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	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					
Detection Che	eck (1=Detection; 0	=No Detection)	•		•	1		

Trial Number				16 10			
Number of B	ursts in Trial						
Chirp Center Frequency				55	17		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Spacing (us) 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	-	89	
10	2	76.4	18	1355	-	615	
Detection Che	eck (1=Detection; 0	=No Detection)				1	

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Trial Number				17 11			
Number of Bu	ursts in Trial						
Chirp Center Frequency				5517			
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	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	ck (1=Detection; 0	=No Detection)				1	

Trial Number	rial Number			18			
Number of B	ursts in Trial			12			
Chirp Center Frequency				55	16		
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	-	-	51	
12	2	87.8	16	1608	-	733	
Detection Che	eck (1=Detection; 0	=No Detection)				1	

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Trial Number	•			19			
Number of B	ursts in Trial		13				
Chirp Center	Frequency			55	16		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Location (MHz) Spacing (us) Spacing (us) Within Interval (no. 1)				
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					
Chirp Center F	Frequency			5516				
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		
Detection Chec	ck (1=Detection; C	=No Detection)				1		

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rial Number	Ī			2	1			
lumber of B	ursts in Trial		15					
Chirp Center	Chirp Center Frequency			5585				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	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			22					
Number of Bu	ırsts in Trial			1	6			
Chirp Center	Frequency			5585				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)					
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 Che	ck (1=Detection; 0	=No Detection)				1		

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Trial Numbei	•			2	3			
Number of B	ursts in Trial		17					
Chirp Center	Frequency			5586				
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 (
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			1100	222		

1410

1190

396

69.9

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

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3

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

68.4

Trial Number				2	4		
Number of B	ursts in Trial			1	8		
Chirp Center Frequency				55	86		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Lo Spacing (us) Spacing (us) Winter				
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 B	ursts in Trial			1	9			
Chirp Center	Chirp Center Frequency			5586				
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 (
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 Bu	ursts in Trial			2	0	
Chirp Center	Chirp Center Frequency			55	87	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	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	ck (1=Detection; 0	=No Detection)				1

Trial Number			27					
Number of Bu	Number of Bursts in Trial Chirp Center Frequency			8	3			
Chirp Center				5583				
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					
Detection Che	ck (1=Detection; 0	=No Detection)				1		

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Trial Number	r		28					
Number of B	lumber of Bursts in Trial Chirp Center Frequency			9				
Chirp Center				55	82			
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				
Detection Ch	eck (1=Detection; 0	=No Detection)				1		

Trial Number	•			2	9			
Number of B	ursts in Trial			10				
Chirp Center Frequency				5582				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	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; C	=No Detection)				1		

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

Trial Number	•		30 11					
Number of B	ursts in Trial							
Chirp Center Frequency				5588				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Location (MHz) Spacing (us) Spacing (us) Within Interval (n					
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
	D	etection Percenta	age (%)		100.000
imit					70%
est Res	ult				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. 19, 2017	Sep. 18, 2018	Conducted (DF01-CB)
Vector Signal generator	R&S	SMU200A	102782	100kHz-6GHz	Dec. 18, 2017	Dec. 17, 2018	Conducted (DF01-CB)
RF Power Divider	ANAREN	2 Way	DFS-01-DV-02	1GHz ~ 6GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (DF01-CB)
RF Power Divider	MTJ	2 Way	DFS-01-DV-03	1GHz ~ 6GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (DF01-CB)
RF Power Divider	ANAREN	4 Way	DFS-01-DV-01	1GHz ~ 6GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-53	1 GHz –18 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-54	1 GHz –18 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-56	1 GHz –18 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-60	1 GHz –18 GHz	Oct. 11, 2017	Oct. 10, 2018	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	1.7 dB	Confidence levels of 95%

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