



# FCC DFS TEST REPORT

FCC ID : Z8H89FT0017

Equipment : ePMP Force300-25

Brand Name : Cambium Networks

Model Name : ePMP Force300-25

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 Nov. 16, 2017, and testing was started from Jul. 23, 2018 and completed on Jul. 26, 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: Sam Chen

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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Report Template No.: CB Ver1.0

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Photographs of EUT v01

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## History of this test report

**Report No. : FZ7D0728-01** 

Report No.	Version	Description	Issued Date
FZ7D0728-01	01	Initial issue of report	Aug. 01, 2018
FZ7D0728-01	02	Removing the QPSK: 80M Data	Jun. 10, 2019
FZ7D0728-01	03	Revising the antenna type to dish antenna from printed antenna on section 1.1.2.	Jun. 11, 2019

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## **Summary of Test Result**

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Report Clause	· lest 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	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	-

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					
Product Type	WLAN (2TX, 2RX)					
Radio Type	Intentional Transceiver					
Power Type	From PoE					
Modulation	QPSK					
Channel Bandwidth	Ant. 2: 20/80 MHz operating channel bandwidth					
	Ant. 3: 20 MHz operating channel bandw	vidth				
Operating Mode	☐ Client with radar detection					
	☐ Client without radar detection	·				
Communication Mode	☐ IP Based (Load Based)					
TPC Function	With TPC     ■ With TPC	☐ Without TPC				
Weather Band (5600~5650MHz)	☑ With 5600~5650MHz	☐ Without 5600~5650MHz				
Max. Con. Power (DFS band)  Min. Con. Power (DFS band)	For Antenna 2  Band 2:  QPSK, 20M: 4.79 dBm  QPSK, 80M: -1.34 dBm  Band 3:  QPSK, 20M: -1.25 dBm  QPSK, 80M: -0.35 dBm  For Antenna 3  Band 2:  QPSK, 20M: 23.88 dBm  Band 3:  QPSK, 20M: 23.64 dBm  For Antenna 2					
imin. Con. Fower (DF3 band)	Band 2:  QPSK, 20M: -1.21 dBm  QPSK, 80M: -7.34 dBm  Band 3:  QPSK, 20M: -7.25 dBm  QPSK, 80M: -6.35 dBm  For Antenna 3  Band 2:  QPSK, 20M: 17.88 dBm  Band 3:  QPSK, 20M: 17.64 dBm					

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Max. EIRP Power (DFS band)	For Antenna 2
	Band 2:
	QPSK, 20M: 29.79 dBm
	QPSK, 80M: 23.66 dBm
	Band 3:
	QPSK, 20M: 23.75 dBm
	QPSK, 80M: 24.65 dBm
	For Antenna 3
	Band 2:
	QPSK, 20M: 25.88 dBm
	Band 3:
	QPSK, 20M: 25.64 dBm
Min. EIRP Power (DFS band)	For Antenna 2
	Band 2:
	QPSK, 20M: 23.79 dBm
	QPSK, 80M: 17.66 dBm
	Band 3:
	QPSK, 20M: 17.75 dBm
	QPSK, 80M: 18.65 dBm
	For Antenna 3
	Band 2:
	QPSK, 20M: 19.88 dBm
	Band 3:
	QPSK, 20M: 19.64 dBm
Power-on cycle	QPSK, 20MHz: Requires 44.348 seconds to complete its power-on cycle.
	QPSK, 80MHz: Requires 44.348 seconds to complete its power-on cycle.
Software / Firmware Version	4.1.2-RC5
	nism and TPC have the capability to operate at least 6 dB below highest RF
output power.	

#### Antenna & Band width

Antenna	Two (TX)			
Bandwidth Mode	20 MHz	80 MHz		
QPSK	V	V		

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#### 1.1.2 Antenna Information

Ant.	ant. Port Brar		Model Name	Antenna Type	Connector	Gain	(dBi)
Ant.	Port	Біапц	Model Name	Antenna Type	Connector	2.4GHz	5GHz
1	1	-	-	Dish Antenna	N/A	25	-
2	1, 2	-	-	Dish Antenna	N/A	-	25
3	1, 2	-	-	Printed Antenna	N/A	-	2

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Note: 1. The EUT has three antennas.

### For 2.4GHz function (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

#### For 5GHz function (2TX/2RX):

Ant. 2 and Ant. 3 has been tested and recorded in the test report.

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

Port 1 and Port 2 could transmit/receive simultaneously.

#### For DFS function:

Ant. 3 supports 20MHz only for DFS Band.

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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
5250~5350 MHz	3	5265 MHz	10	5300 MHz
5250~5350 MH2 Band 2	4	5270 MHz	11	5305 MHz
Dariu 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	5545 MHz	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
5250~5350 MHz	1	5250 MHz	2	5290 MHz
Band 2	3	5300 MHz	-	-
	1	5520 MHz	16	5595 MHz
	2	5525 MHz	17	5600 MHz
	3	5530 MHz	18	5605 MHz
	4	5535 MHz	19	5610 MHz
	5	5540 MHz	20	5615 MHz
5470~5725 MHz	6	5545 MHz	21	5620 MHz
Band 3	7	5550 MHz	22	5625 MHz
Ballu 3	8	5555 MHz	23	5630 MHz
	9	5560 MHz	24	5635 MHz
	10	5565 MHz	25	5640 MHz
	11	5570 MHz	26	5645 MHz
	12	5575 MHz	27	5650 MHz
	15	5580 MHz	28	5720 MHz

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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: 7D0728 Below is the table for the change of the product with respect to the original one.

Performance Checking
All toot items
All test items.

#### For DFS function:

Ant. 2 supports QPSK, 20M and QPSK, 80M.

Ant. 3 supports QPSK, 20M only.

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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	F300	N/A					
4	POE	SWITCHING POWER SUPPLY	PSA15M-300(AP)	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.	52, Huaya 1st R	d., Guish	an	Dist., Taoyuan City, T	aiwan (R.O.C.)
	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 Coun	ty 302, Taiwan, R.O.C.
	TEL : 886-3-656-9065								
Test	Test Condition Test Site No. Test Engineer Test Environment Test Date								
DFS Site DF01-CB Gino Huang, Paul Chen 25°C / 59% Jul. 23, 2018~Jul. 2				Jul. 23, 2018~Jul. 26, 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

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

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## 2.2 The Worst Case Measurement Configuration

Th	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: The EUT was powered by PoE, and the PoE was for measurement only, would not be marketed. The PoE information as below:

Equipment	Brand Name	Model Name	FCC ID
POE	SWITCHING POWER SUPPLY	PSA15M-300(AP)	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.
	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	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.

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.

#### Frequency Hopping Radar Test Waveform 3.2.3

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

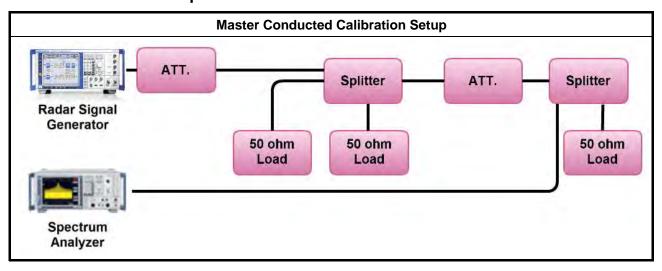
The FCC Type 6 waveform uses a static waveform with 100 bursts in the instruments ARB. In addition, the RF list mode is operated with a list containing 100 frequencies from a randomly generated list and it had be ensured that at least one of the random frequencies falls into the UNII Detection Bandwidth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

#### 3.2.4 **DFS Threshold Level**

DFS Threshold Level								
DFS Threshold level:	-61	dBm	at the antenna connector					
			in front of the antenna					
For QPSK, 80M type5: The Interference Radar Detection Threshold Level is is -64 dBm + 25 [dBi] + 1 dB = -38 dBm. That had been taken into account the output power range and antenna gain.								
For QPSK, 20M and QPSK, 80M other type: The Interference Radar Detection Threshold Level is is -64 dBm + 2 [dBi] + 1 dB = -61 dBm. That had been taken into account the output power range and antenna gain.								

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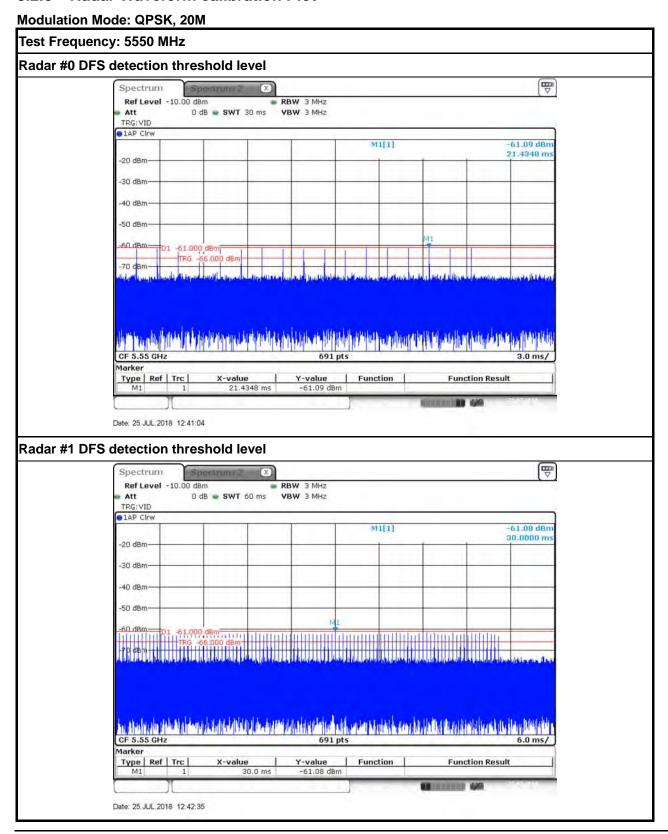
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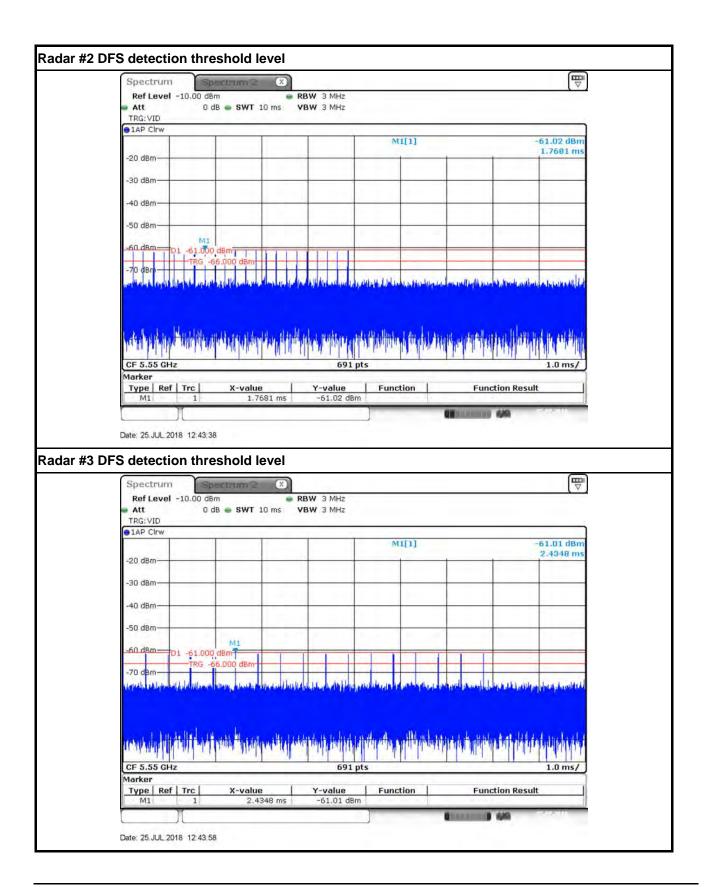
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#### 3.2.6 Radar Waveform calibration Plot

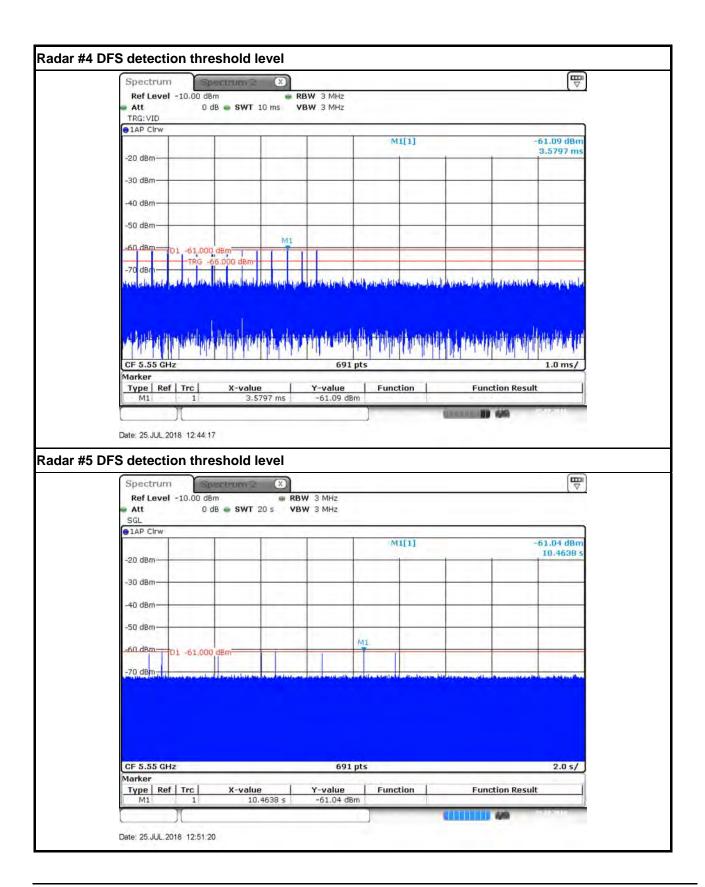


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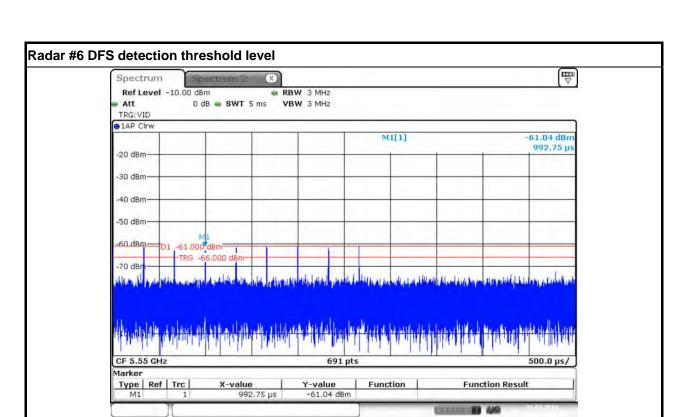


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Date: 25.JUL.2018 12:47:49

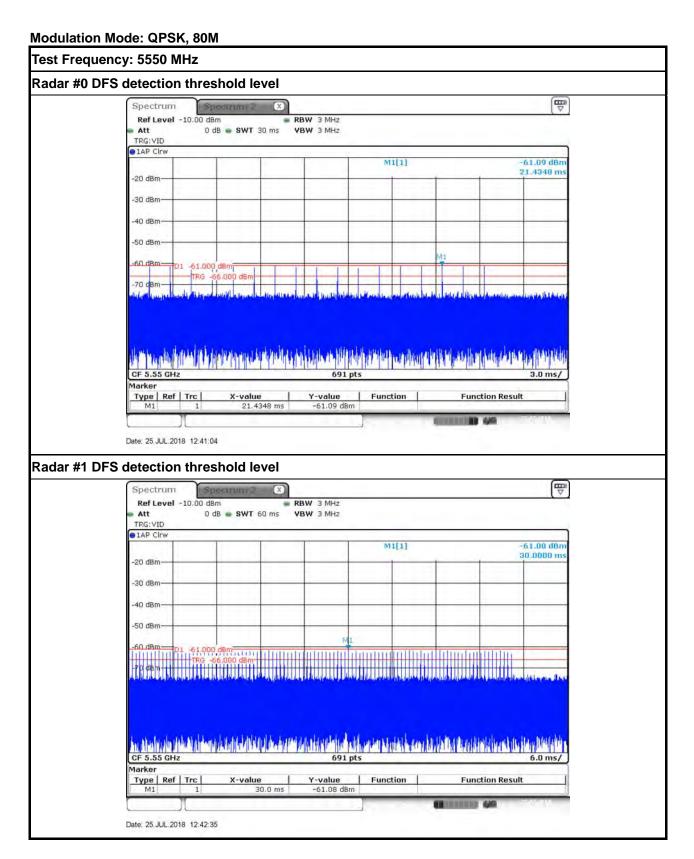


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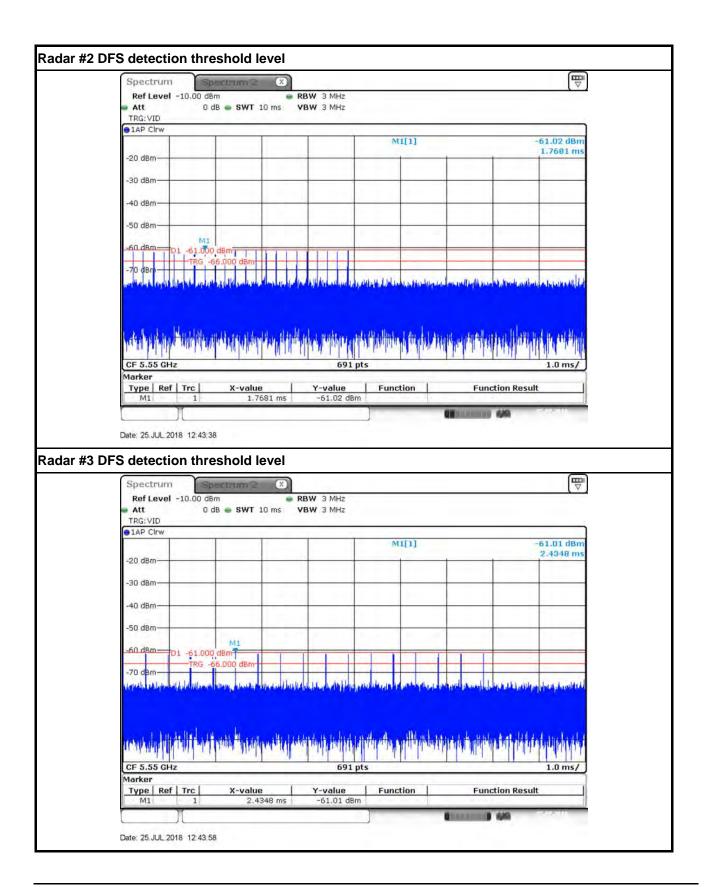
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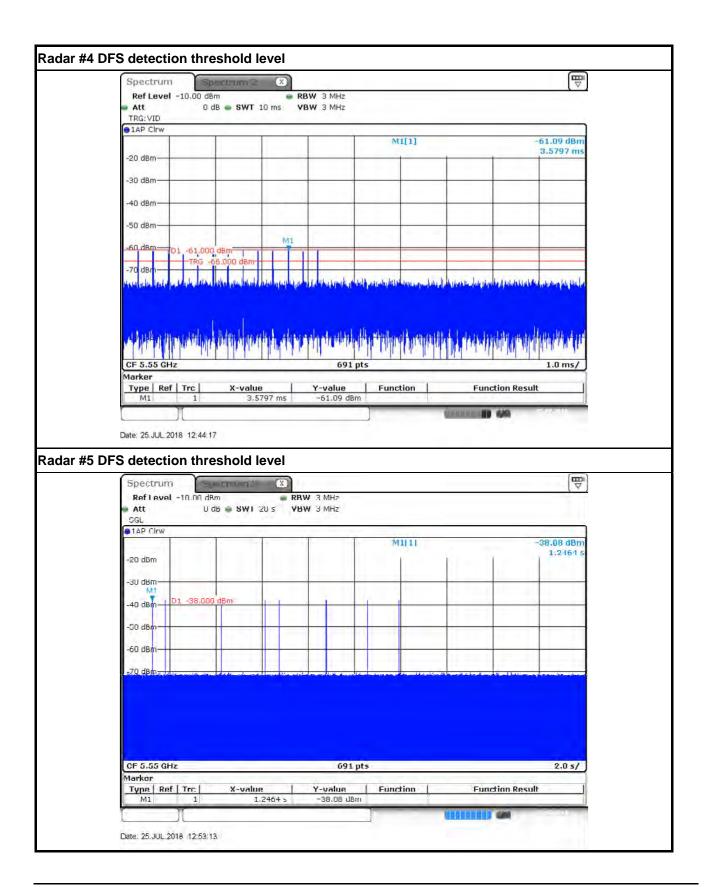
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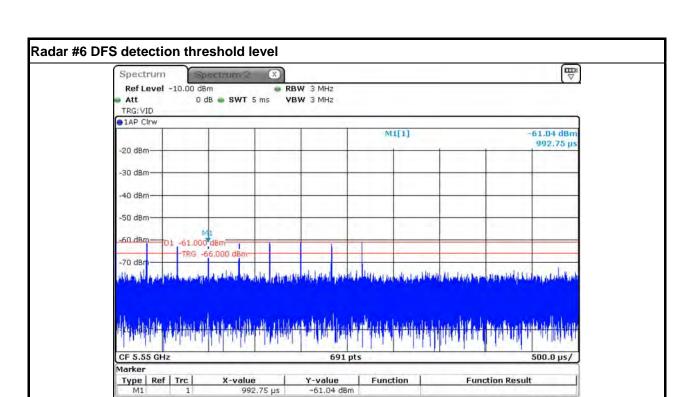


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Date: 25.JUL.2018 12:47:49



THURSDAY 49

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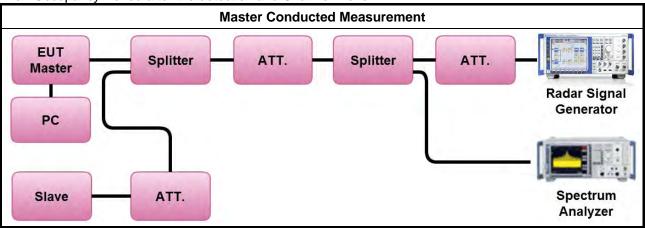
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#### 3.2.7 Test Setup

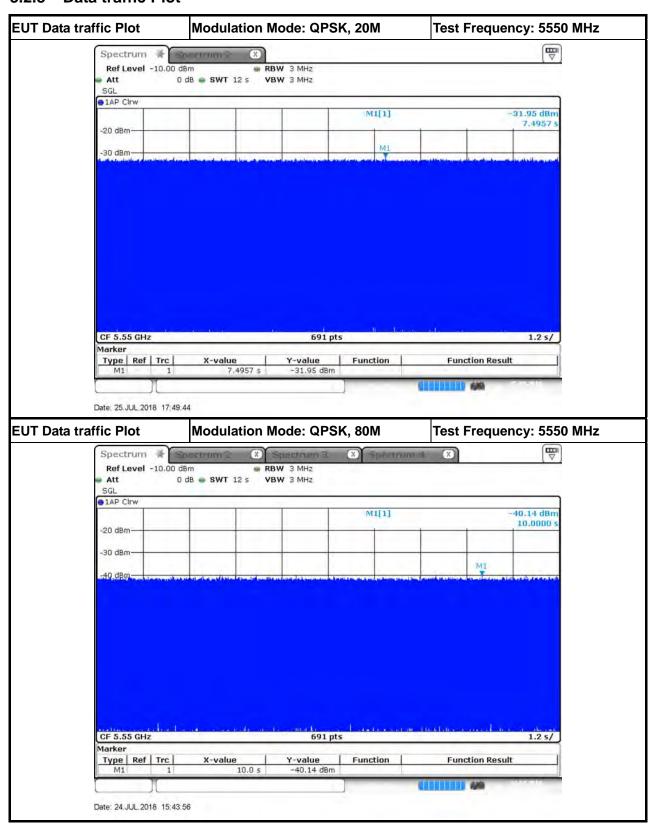
A spectrum analyzer is used as a monitor to verify that the EUT has vacated the Channel within the (Channel Closing Transmission Time and Channel Move Time, and does not transmit on a Channel during the Non-Occupancy Period after the detection and Channel move.

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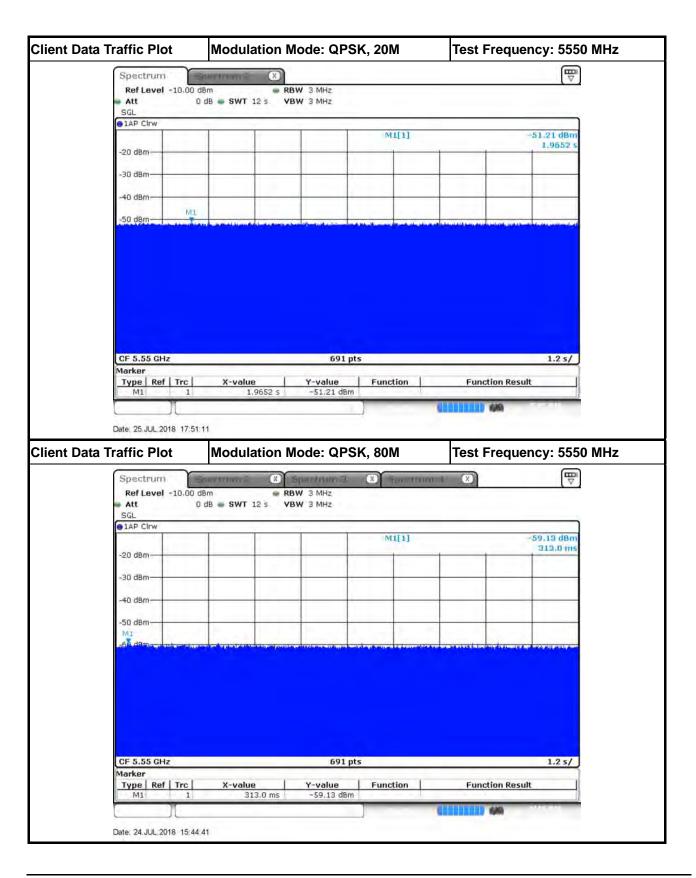
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#### 3.2.8 Data traffic Plot

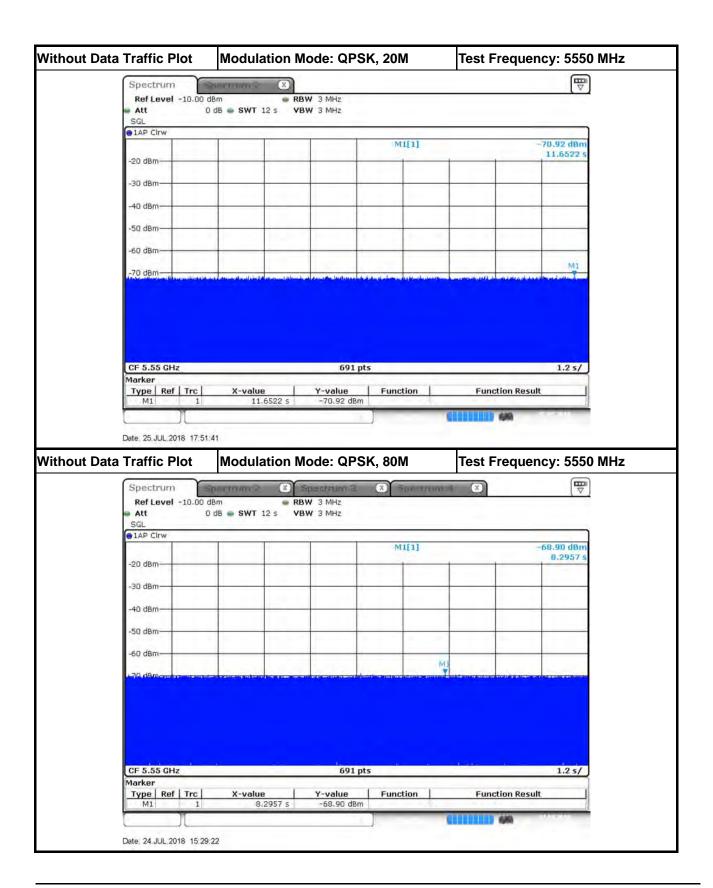


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#### 3.3 UNII Detection Bandwidth

#### 3.3.1 UNII Detection Bandwidth Limit

Channel Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	UNII Detection Bandwidth Min. Limit (MHz)			
20	17.88	18			
80	76.40	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 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					
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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	FU	T Fre	aller	ncy=5	5550	MHz					
Channel Bandwidth (MHz)	80		<u>quei</u>	icy-c	7550	VII 12					
Onamici Banawiani (mi12)	DFS Detection Trials (1=Detection, 0= No Detection)										
Radar Frequency (MHz)						1					Detection Rate
rtadar r requeries (iiii 12)	1	2	3	4	5	6	7	8	9	10	(%)
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
5513	1	1	1	1	1	1	1	1	1	1	100
5514	1	1	1	1	1	1	1	1	1	1	100
5515	1	1	1	1	1	1	1	1	1	1	100
5496	1	1	1	1	1	1	1	1	1	1	100
5497	1	1	1	1	1	1	1	1	1	1	100
5498	1	1	1	1	1	1	1	1	1	1	100
5499	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
5586	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(FH)	1	1	1	1	0	1	1	1	1	1	90
5590	0	0	0	0	0	0	0	0	0	0	0
dar Type 0-Detection Bandwidth (MHz) = (FH-FL) = (5589MHz-5512MHz)=						77					
II Detection Bandwidth Min. Limit (MHz) =					77						
st 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.

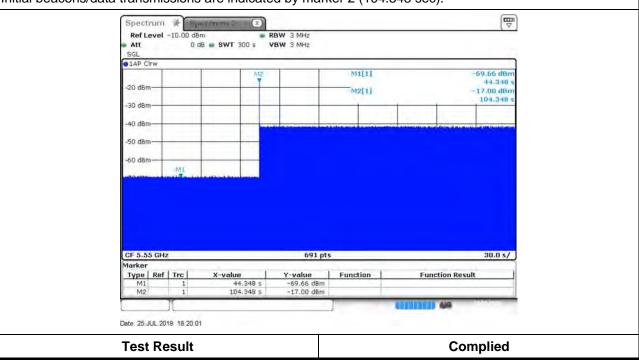
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### 3.4.4 Test Result of Initial Channel Availability Check Time

Modulation Mode	Freq.	Radar Test Signal
QPSK, 20M	5550 MHz	N/A

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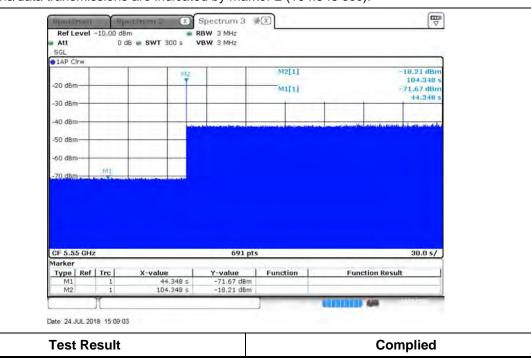
The EUT does not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle (44.348 sec). The initial CAC time of the EUT is indicated by marker 1 (44.348 sec). Initial beacons/data transmissions are indicated by marker 2 (104.348 sec).



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

The EUT does not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle (44.348 sec). The initial CAC time of the EUT is indicated by marker 1 (44.348 sec). Initial beacons/data transmissions are indicated by marker 2 (104.348 sec).



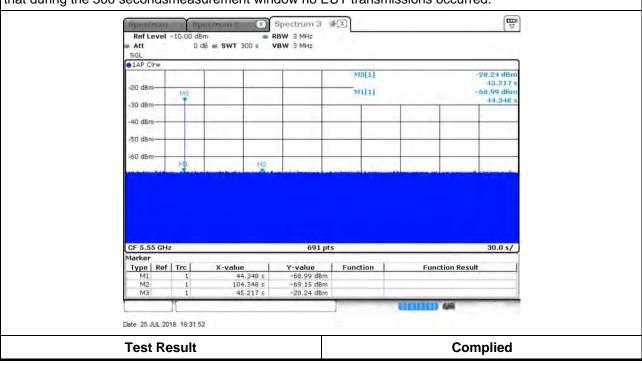
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# 3.4.5 Test Result of Radar Burst at the Beginning of the Channel Availability Check Time

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Modulation Mode	Freq. (MHz)	Radar Type Signal
QPSK, 20M	5550 MHz	0

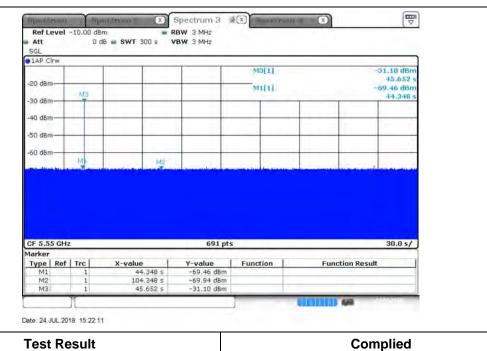
Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions will continue for 254.783 seconds after the radar Burst has been generated. Verify that during the 300 secondsmeasurement window no EUT transmissions occurred.



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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.



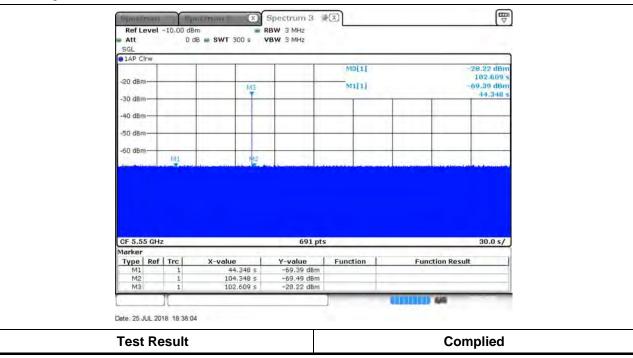
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# 3.4.6 Test Result of Radar Burst at the End of the Channel Availability Check Time

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Modulation Mode	Freq. (MHz)	Radar Type Signal
QPSK, 20M	5550 MHz	0

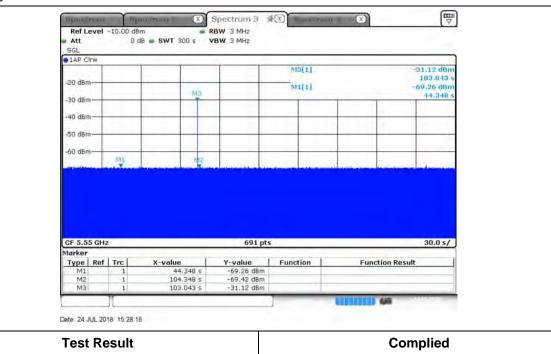
Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions will continue for 197.391 seconds after the radar Burst has been generated. Verify that during the 300 seconds measurement window no EUT transmissions occurred.



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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.
- ✓ 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

Modulation Mode: QPSK, 20M

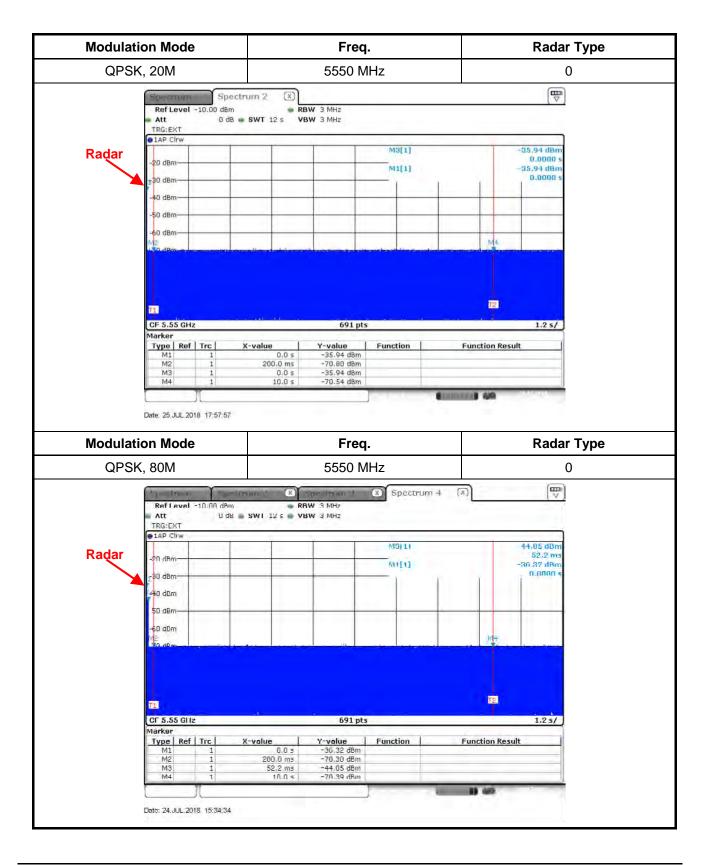
Parameter	Test Result	Limit
r ai ainetei	Type 0	Lillit
Test Channel (MHz)	5550 MHz	-
Channel Move Time (sec.)	0	< 10s

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Modulation Mode: QPSK, 80M

Parameter	Test Result	Limit
r al allietei	Туре 0	Lillit
Test Channel (MHz)	5550 MHz	-
Channel Move Time (sec.)	0	< 10s

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# 3.5.5 Test Result of Channel Closing Transmission Time

Modulation Mode: QPSK, 20M

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

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Modulation Mode: QPSK, 80M

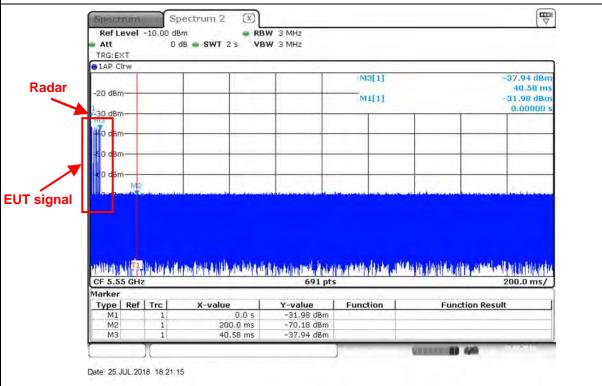
Parameter	Test Result	Limit
Farameter	Туре 0	Lillit
Test Channel (MHz)	5550 MHz	-
Channel Closing Transmission Time (ms) (Note)	0	< 60ms

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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Modulation Mode	Freq.	Radar Type
QPSK, 20M	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



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

C (0 ms) = N (0) X Dwell (2.899 ms)

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**Modulation Mode** Freq. Radar Type QPSK, 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 Spectrum 4 \*X Ref Level -10.00 dBm RBW 3 MHz 0 dB - SWT 2 s - VBW 3 MHz Att TRG: EXT 1AP Clrw M3[1] 55.07 m -20 dBm Radar MI[1] 36.98 dBn 0.000000 **EUT signal** CF 5.55 GHz Microscontidional (IIII) de licucione 691 pts Type | Ref | Trc Y-value **Function Result** 0.0 s 200.0 ms -36,98 dBm -71.34 dBm

-43.71 dBm

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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

55.07 ms

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

Dwell (2.899 ms)= S (2000 ms) / B (690)

C (0 ms) = N (0) X Dwell (2.899 ms)

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# 3.5.6 Test Result of Non-Occupancy Period

Modulation Mode: QPSK, 20M

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

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Modulation Mode: QPSK, 80M

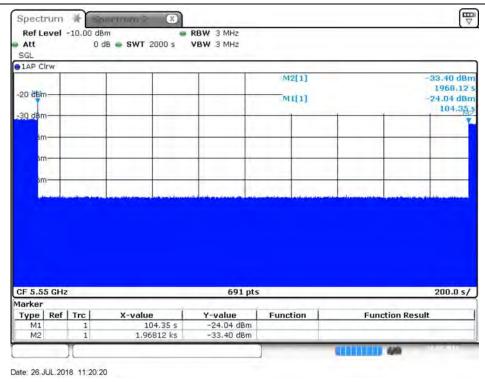
Parameter	Test Result	Limit
Farameter	Туре 0	Lillit
Test Channel (MHz)	5550 MHz	-
Non-Occupancy Period (min.)	≧30	≥ 30 min

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Modulation Mode	Freq.
QPSK, 20M	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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**Modulation Mode** 

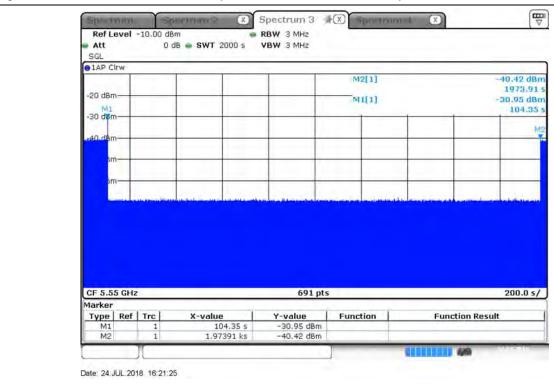
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Freq.

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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#### 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 Repetition Frequency (Pulse Per Second)	PRI (us)	1=Detection 0=No Detection
1	5543	1	1930.5	518	1
2	5546	23	326.2	3066	1
3	5552	19	1139.0	878	1
4	5546	12	1355.0	738	1
5	5542	4	1730.1	578	1
6	5548	8	1519.8	658	1
7	5556	15	1253.1	798	1
8	5548	6	1618.1	618	1
9	5543	14	1285.3	778	1
10	5559	3	1792.1	558	1
11	5547	13	1319.3	758	0
12	5555	9	1474.9	678	1
13	5552	7	1567.4	638	1
14	5555	17	1193.3	838	1
15	5559	10	1432.7	698	1
16	5550	-	1692.0	591	1
17	5551	-	328.1	3048	1
18	5556	-	373.4	2678	1
19	5549	-	574.4	1741	1
20	5544	-	1216.5	822	1
21	5548	-	801.3	1248	1
22	5547	-	488.5	2047	1
23	5542	-	956.0	1046	1
24	5557	-	517.6	1932	1
25	5547	-	1422.5	703	1
26	5549	-	542.0	1845	1
27	5547	-	741.3	1349	1
28	5550	-	881.8	1134	1
29	5545	-	427.4	2340	1
30	5541	-	628.9	1590	1
		etection Percentage	(%)		96.667
Limit					60%
Test Res	ult				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	5545	2.6	221	23	1
2	5548	4.6	198	27	1
3	5550	1.1	184	29	1
4	5542	4.8	203	24	1
5	5557	2.4	162	25	1
6	5549	3.4	204	28	1
7	5550	2.3	170	27	1
8	5541	3.5	184	23	1
9	5555	4.9	150	27	1
10	5544	4.6	211	29	1
11	5542	2.9	158	23	1
12	5554	2.6	226	27	1
13	5546	1.6	204	26	1
14	5554	3.9	181	25	1
15	5545	4.6	202	24	1
16	5545	4.1	194	27	1
17	5556	2.3	193	28	1
18	5548	3.9	173	29	1
19	5552	4.3	188	23	1
20	5555	1.5	215	26	1
21	5549	4.9	227	27	1
22	5543	1.1	199	23	0
23	5543	4.5	155	29	1
24	5546	4.0	190	27	1
25	5557	2.4	151	23	1
26	5547	2.5	180	28	1
27	5545	2.5	228	23	1
28	5557	2.5	203	25	1
29	5552	1.5	188	25	1
30	5546	1.9	217	24	1
		etection Percentage (%			96.667
.imit		3 (	•		60%
est Res	ult				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	5559	8.0	205	16	1
2	5544	6.7	382	18	1
3	5555	8.6	418	16	1
4	5545	9.4	351	17	1
5	5543	7.4	383	18	1
6	5544	9.8	232	16	1
7	5544	9.1	377	17	1
8	5556	9.6	457	16	1
9	5541	8.0	471	18	1
10	5557	9.0	304	18	1
11	5541	8.0	316	17	1
12	5557	9.8	325	16	1
13	5546	8.0	409	17	1
14	5543	9.9	200	17	1
15	5548	8.8	458	16	0
16	5558	8.0	232	18	1
17	5553	8.3	250	16	1
18	5549	8.7	270	16	1
19	5554	7.7	350	17	1
20	5542	7.1	230	16	1
21	5541	7.3	416	18	1
22	5545	7.6	498	18	1
23	5546	7.3	286	17	1
24	5543	7.3	287	16	1
25	5542	7.5	462	17	1
26	5541	6.2	300	17	1
27	5544	6.4	323	18	1
28	5554	7.1	420	16	1
29	5553	7.2	395	18	1
30	5546	8.4	377	16	1
	96.667				
Limit		etection Percentage (9	•		60%
Test Res	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	5548	18.0	242	15	1
2	5545	19.9	279	12	1
3	5544	12.9	487	14	1
4	5558	15.0	452	13	1
5	5546	16.3	230	12	1
6	5544	19.8	238	13	1
7	5554	18.2	420	16	1
8	5547	16.3	452	15	1
9	5555	14.2	495	12	1
10	5546	17.8	228	16	1
11	5558	19.1	211	16	1
12	5547	18.4	283	15	1
13	5543	11.8	411	12	1
14	5553	14.2	284	13	1
15	5547	13.9	202	12	0
16	5546	17.8	340	14	1
17	5541	15.6	290	16	1
18	5557	14.6	250	16	1
19	5555	14.4	484	15	1
20	5553	18.9	387	13	1
21	5547	11.1	348	15	1
22	5555	13.8	291	16	1
23	5544	14.3	295	12	1
24	5549	12.5	300	12	1
25	5555	12.5	322	14	1
26	5544	12.5	383	13	1
27	5541	15.7	322	16	1
28	5548	19.8	469	13	1
29	5545	18.6	406	15	1
30	5554	15.9	238	14	1
		96.667			
_imit		60%			
Test Res				Complied	

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Total Type 1~4 Radar Statistical Performance

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

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Type 5 Radar Statistical Performance

Center Freq. (MHz)	Low Edge (MHz)	High Edge (MHz)				
5500	5490	5510	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	1		
13	17	6.8	5548	1		
14	20	8	5549	1		
15	19	7.6	5549	1		
16	18	7.2	5548	1		
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	5553	1		
22	12	4.8	5554	1		
23	11	4.4	5554	1		
24	10	4	5555	1		
25	9	3.6	5555	1		
26	8	3.2	5555	1		
27	18	7.2	5556	1		
28	19	7.6	5552	1		
29	20	8	5551	1		
30	5	2	5551	1		
Total						
	Detection Per	centage (%)		100%		
imit		<b>S</b> ( )		80%		
est Result				Complied		

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Trial Number	rial Number lumber of Bursts in Trial			1 8				
Number of B								
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	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		

Trial Number			2					
Number of Bui	Number of Bursts in Trial			9				
Chirp Center F	requency			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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Trial Number			3					
Number of Bu	Number of Bursts in Trial			10				
Chirp Center F	requency			55	50			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Loc (MHz) Spacing (us) Spacing (us) Interv					
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 Chec	k (1=Detection; C	=No Detection)				1		

Trial Number			4					
Number of Bu	Number of Bursts in Trial			11				
Chirp Center	Frequency			55	50			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 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 Che</b>	ck (1=Detection; 0	=No Detection)				1		

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Trial Number	Trial Number Number of Bursts in Trial			5 12				
Number of B								
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	Frial 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)	Starting Location Within Interval (ms)			
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	•			7	7	
Number of B	ursts in Trial		14			
Chirp Center	Chirp Center Frequency			55	50	
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; 0	=No Detection)				1

Trial Number			8				
Number of Bu	rsts in Trial		15				
Chirp Center Frequency				55	50		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)				
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 Ched</b>	ck (1=Detection; 0	=No Detection)	•	•		1	

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2

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

Trial Number	r			(	9		
Number of B	ursts in Trial		16				
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	74.4	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

89.7

1690

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

Trial Number				1	0			
Number of B	ursts in Trial			17				
Chirp Center	hirp Center Frequency			55	50			
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	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

65.9

72.7

1478

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

Trial Numbe	•			1	1			
Number of B	ursts in Trial		18					
Chirp Center Frequency				5547				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 L (MHz) Spacing (us) Spacing (us)			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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Trial Number	12
Number of Bursts in Trial	19
Chirp Center Frequency	5547

inp center Frequency			354 <i>1</i>				
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	
18	1	74.6	16	-	-	396	
19	2	97.6	16	1805	-	615	
tection Che	ck (1=Detection; 0	=No Detection)				1	

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

Trial Numbei	r			1	3	
Number of B	Bursts in Trial			2	0	
Chirp Center	r 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				
Number of Bu	Number of Bursts in Trial			8			
Chirp Center	hirp Center Frequency			55	49		
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 108				
<b>Detection Che</b>	ck (1=Detection; 0	=No Detection)				1	

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Trial Number			15					
Number of Bu	Number of Bursts in Trial			9				
Chirp Center Frequency				55	49			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	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 110					
<b>Detection Che</b>	ck (1=Detection; C	=No Detection)	•			1		

Trial Number			16				
Number of Bu	Number of Bursts in Trial			10			
Chirp Center Frequency			55	48			
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	-	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	89			
10	2	76.4	18	1355	-	615	
<b>Detection Ched</b>	ck (1=Detection; 0	=No Detection)				1	

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Trial Number	Trial Number Number of Bursts in Trial			17 11			
Number of B							
Chirp Center Frequency			5548				
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	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				
Number of Bui	Number of Bursts in Trial			12			
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	-	-	51	
12	2	87.8	16	1608	-	733	
<b>Detection Chec</b>	k (1=Detection; 0	=No Detection)				1	

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Trial Number	•		19					
Number of B	umber of Bursts in Trial			13				
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			20				
Number of Bu	rsts in Trial		14				
Chirp Center Frequency			5547				
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	•			2	1	
Number of B	ursts in Trial			1	5	
Chirp Center Frequency			5553			
Burst	Burst No. of Pulses Pulse Width (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			22				
Number of Bu	rsts in Trial	16		16			
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	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 Ched</b>	ck (1=Detection; 0	=No Detection)				1	

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

64.6

69.9

Trial Numbe	r		23					
Number of B	umber of Bursts in Trial			17				
Chirp Center Frequency			5554					
Burst	Burst No. of Pulses Pulse Width (us)			Rurst No of Pulses	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 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		

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

77.1

81.1

68.4

**Trial Number Number of Bursts in Trial Chirp Center Frequency** Starting **Chirp Width** Location **Pulse Width** Pulse 1-to-2 Pulse 2-to-3 Burst No. of Pulses Within (us) (MHz) Spacing (us) Spacing (us) Interval (ms) 83.8 66.9 86.1 65.5 62.6 68.7 59.2 73.9 77.2 96.4 99.9 99.9 86.7 -92.6 --

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

53.2

69.5

63.9

93.4

77.3

73.1

77.4

57.2

68.7

60.8

69.7

62.2

Trial Number			25				
Number of Bursts in Trial Chirp Center Frequency			19				
			5555				
Burst No. of Pulses Pulse Width (us)		Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)		
1	3	68.2	9	1723	1868	471	
2	3	83.7	9	1711	1405	368	
	0	03.7	9	1711	1405	300	
3	2	69.7	9	1781	-	425	
3 4			·				
		69.7	9			425	
4	2	69.7 59.7	9	1781	- - - -	425 440	

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3

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

Trial Number	ſ			2	26	
Number of B	Bursts in Trial			2	20	
Chirp Center Frequency				55	555	
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

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Trial Number			27						
Number of Bu	Number of Bursts in Trial Chirp Center Frequency			8					
Chirp Center				5556					
Burst	Ruret No of Pulses   1 mm   1 mm   1 mm				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						
8	2	85.4	18	1672	-	776			
<b>Detection Che</b>	ck (1=Detection; 0	=No Detection)		·	·	1			

8

1888

1442

529

70.5

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Trial Number	Trial Number Number of Bursts in Trial			28 9				
Number of B								
<b>Chirp Center</b>	Frequency			55	52			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	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 Che	eck (1=Detection; C	=No Detection)				1		

Trial Number			29				
Number of Bursts in Trial				1	0		
Chirp Center	Frequency			55	51		
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	
<b>Detection Che</b>	ck (1=Detection; 0	=No Detection)				1	

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

Trial Number				3	0			
Number of B	Number of Bursts in Trial			11				
Chirp Center	Frequency			55	51			
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	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
Detection Percentage (%)					100.000
imit			· ,		70%
Test Result					Complied

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Modulation Mode: QPSK, 80M

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	5555	1	1930.5	518	1
2	5530	23	326.2	3066	1
3	5520	19	1139.0	878	1
4	5586	12	1355.0	738	1
5	5547	4	1730.1	578	1
6	5586	8	1519.8	658	1
7	5552	15	1253.1	798	1
8	5585	6	1618.1	618	1
9	5552	14	1285.3	778	1
10	5524	3	1792.1	558	1
11	5574	13	1319.3	758	1
12	5515	9	1474.9	678	1
13	5513	7	1567.4	638	1
14	5580	17	1193.3	838	1
15	5547	10	1432.7	698	0
16	5556	-	1692.0	591	1
17	5574	-	328.1	3048	1
18	5515	-	373.4	2678	1
19	5544	-	574.4	1741	1
20	5530	-	1216.5	822	1
21	5541	-	801.3	1248	1
22	5576	-	488.5	2047	1
23	5562	1	956.0	1046	1
24	5573	-	517.6	1932	1
25	5564	-	1422.5	703	1
26	5544	-	542.0	1845	1
27	5572	-	741.3	1349	1
28	5551	-	881.8	1134	1
29	5527	-	427.4	2340	1
30	5542	-	628.9	1590	1
		Detection Percentage	(%)		96.667
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	5518	2.6	221	23	1
2	5571	4.6	198	27	1
3	5552	1.1	184	29	1
4	5539	4.8	203	24	1
5	5578	2.4	162	25	1
6	5584	3.4	204	28	1
7	5545	2.3	170	27	1
8	5527	3.5	184	23	1
9	5578	4.9	150	27	1
10	5566	4.6	211	29	1
11	5548	2.9	158	23	1
12	5527	2.6	226	27	1
13	5557	1.6	204	26	1
14	5586	3.9	181	25	1
15	5567	4.6	202	24	1
16	5563	4.1	194	27	0
17	5571	2.3	193	28	1
18	5516	3.9	173	29	1
19	5542	4.3	188	23	1
20	5577	1.5	215	26	1
21	5573	4.9	227	27	1
22	5557	1.1	199	23	1
23	5586	4.5	155	29	1
24	5569	4.0	190	27	1
25	5540	2.4	151	23	1
26	5524	2.5	180	28	1
27	5571	2.5	228	23	1
28	5518	2.5	203	25	1
29	5568	1.5	188	25	1
30	5589	1.9	217	24	1
		etection Percentage (%	%)	,	96.667
imit		J - ( -	,		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	5566	8.0	205	16	1
2	5566	6.7	382	18	1
3	5545	8.6	418	16	1
4	5524	9.4	351	17	1
5	5570	7.4	383	18	1
6	5589	9.8	232	16	1
7	5587	9.1	377	17	1
8	5551	9.6	457	16	1
9	5568	8.0	471	18	1
10	5553	9.0	304	18	1
11	5559	8.0	316	17	1
12	5563	9.8	325	16	1
13	5535	8.0	409	17	1
14	5586	9.9	200	17	1
15	5555	8.8	458	16	0
16	5532	8.0	232	18	1
17	5528	8.3	250	16	1
18	5584	8.7	270	16	1
19	5580	7.7	350	17	1
20	5545	7.1	230	16	1
21	5542	7.3	416	18	1
22	5522	7.6	498	18	1
23	5575	7.3	286	17	1
24	5544	7.3	287	16	1
25	5575	7.5	462	17	1
26	5571	6.2	300	17	1
27	5565	6.4	323	18	1
28	5543	7.1	420	16	1
29	5540	7.2	395	18	1
30	5534	8.4	377	16	1
	D	etection Percentage (9	%)		96.667
imit		<u> </u>			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	5561	18.0	242	15	1
2	5515	19.9	279	12	1
3	5589	12.9	487	14	1
4	5543	15.0	452	13	1
5	5560	16.3	230	12	1
6	5575	19.8	238	13	1
7	5534	18.2	420	16	1
8	5549	16.3	452	15	1
9	5545	14.2	495	12	1
10	5546	17.8	228	16	1
11	5522	19.1	211	16	0
12	5583	18.4	283	15	1
13	5544	11.8	411	12	1
14	5548	14.2	284	13	1
15	5542	13.9	202	12	1
16	5561	17.8	340	14	1
17	5555	15.6	290	16	1
18	5540	14.6	250	16	1
19	5581	14.4	484	15	1
20	5558	18.9	387	13	1
21	5537	11.1	348	15	1
22	5530	13.8	291	16	1
23	5513	14.3	295	12	1
24	5576	12.5	300	12	1
25	5553	12.5	322	14	1
26	5579	12.5	383	13	1
27	5577	15.7	322	16	1
28	5577	19.8	469	13	1
29	5566	18.6	406	15	1
30	5515	15.9	238	14	1
'	D	etection Percentage (9	%)		96.667
_imit			•		60%
Test Resu			Complied		

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Total Type 1~4 Radar Statistical Performance

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

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Type 5 Radar Statistical Performance

enter Freq. (MHz)	Low Edge (MHz)	High Edge (MHz)		
5500	5490	5510	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	1
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	5583	1
22	12	4.8	5584	1
23	11	4.4	5584	1
24	10	4	5585	1
25	9	3.6	5585	1
26	8	3.2	5585	1
27	18	7.2	5586	1
28	19	7.6	5582	1
29	20	8	5581	1
30	5	2	5581	1
		30		
		100%		
it		- · ·		80%
st Result				Complied

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Trial Number	rial Number lumber of Bursts in Trial			1				
Number of B				8				
Chirp Center	Frequency			55	50			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Lo (MHz) Spacing (us) Spacing (us) W					
						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		

Trial Number			2					
Number of Bui	Number of Bursts in Trial			9				
Chirp Center F	requency			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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Trial Number	•		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)	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	933				
Detection Che	eck (1=Detection; 0	=No Detection)	•	•	•	1		

Trial Number			4				
Number of Bur	rsts in Trial		11				
Chirp Center Frequency				55	50		
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	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	•			į.	5	
Number of B	ursts in Trial		12			
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	Trial Number			6				
Number of Bu	rsts in Trial			1	3			
Chirp Center F	Chirp Center Frequency			55	50			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	(MHz) Spacing (us) Spacing (us)				
1	2	88.1	10	1257	-	Interval (ms) 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	•		7				
Number of B	ursts in Trial		14				
Chirp Center	hirp Center Frequency			55	50		
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; 0	=No Detection)				1	

Trial Number			8					
Number of Bu	rsts in Trial			1	5			
Chirp Center Frequency				55	50			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)					
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 Ched</b>	ck (1=Detection; 0	=No Detection)	•	•		1		

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2

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

Trial Number				9				
Number of B	ursts in Trial		16					
Chirp Center	rp Center Frequency			55	50			
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 (in the control of the control					
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

89.7

1690

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

rial Numbe	r			10				
umber of B	ursts in Trial			1	7			
hirp Center Frequency				55	50			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Locat (MHz) Spacing (us) Spacing (us) With			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		

14

72.7

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18

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

Trial Numbe	r			1	1			
Number of B	ursts in Trial			18				
Chirp Center	hirp Center Frequency			55	18			
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 (					
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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419

205

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Trial Number			12			
Number of Bursts in Trial			19			
Chirp Center F	requency		5518			
Burst	No. of Pulses	Pulse Width		Pulse 1-to-2	Pulse 2-to-3	Starting Location

imp ocitici	requerioy		3310				
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	
18	1	74.6	16	-	-	396	
19	2	97.6	16	1805	-	615	
tection Che	ck (1=Detection; C	=No Detection)				1	

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Starting Location Within Interval (ms)
388
348
215
28
585
65
92
68
517
121
448
567
245
584
579
464
89
153
282

71

Trial Number			14			
Number of Bu	Number of Bursts in Trial			8	3	
Chirp Center	Chirp Center Frequency			55	20	
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)	•			1

17

98.9

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

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Trial Number				15				
Number of Bu	Number of Bursts in Trial			ę	9			
Chirp Center Frequency				55	20			
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	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 Che</b>	ck (1=Detection; C	=No Detection)				1		

Trial Number				16				
Number of Bu	ırsts in Trial			10				
Chirp Center Frequency				55	19			
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	-	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 Che</b>	ck (1=Detection; 0	=No Detection)				1		

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Trial Number	•		17			
Number of B	Number of Bursts in Trial			1	1	
Chirp Center Frequency				55	19	
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	rial Number			18			
Number of Bur	rsts in Trial		12				
Chirp Center F	Chirp Center Frequency			55	18		
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	
<b>Detection Chec</b>	k (1=Detection; C	=No Detection)				1	

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Trial Number	•			1	9		
Number of B	ursts in Trial			13			
Chirp Center Frequency				55	18		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location 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>	ck (1=Detection; 0	=No Detection)			•	1

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Trial Number				2	1		
Number of B	ursts in Trial		15				
Chirp Center	Chirp Center Frequency			5583			
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		16				
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 Ched</b>	ck (1=Detection; 0	=No Detection)				1	

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

Trial Number				23				
Number of Bu	ırsts in Trial		17					
Chirp Center	Chirp Center Frequency			55	84			
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 (in the control of the control					
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

64.6

69.9

1910

1410

1190

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

Trial Number	f			2	4		
Number of B	ursts in Trial		18				
Chirp Center	hirp Center Frequency			55	85		
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 Pulse 2-to-3 Pulse 2-to				
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	

10

10

1664

1536

1309

81.1

68.4

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

77.3

73.1

77.4

57.2

68.7

60.8

69.7

62.2

Trial Number			25					
Number of B	Number of Bursts in Trial			19				
Chirp 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	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		

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

rial Number	•		26 20					
umber of B	ursts in Trial							
Chirp Center Frequency				55	85			
Burst	Pulse Width		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			27				
Number of Bursts in Trial			8				
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	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			28					
Number of Bursts in Trial			9					
<b>Chirp Center</b>	Chirp Center Frequency			55	82			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	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		
<b>Detection Che</b>	Detection Check (1=Detection; 0=No Detection)							

Trial Number			29				
Number of Bu	ırsts in Trial		10				
Chirp Center Frequency				55	81		
Burst No. of Pulses Pulse Width (us)			Chirp Width (MHz)	Pulse 1-to-2 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	
<b>Detection Che</b>	ck (1=Detection; 0	=No Detection)				1	

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

Trial Number			30					
Number of Bursts in Trial			11					
Chirp Center Frequency				55	81			
Burst	Burst No. of Pulses Pulse Width (us)			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	-	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
	100.00				
.imit	70%				
est Res	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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