



Test report No. : 4789813598-US-R2-V0
Page : 1 of 110
Issued date : 2021/7/26
FCC ID : 2AAJXQS-IQWIFI6

DFS TEST REPORT

Product : IQ WiFi 6
Model Name : IQ WiFi 6
FCC ID : 2AAJXQS-IQWIFI6
Test Regulation : FCC 47 CFR Part 15 Subpart E (Section 15.407)
Received Date : 2021/3/8
Test Date : 2021/4/12 ~ 2021/4/30
Issued Date : 2021/7/26

Applicant : Qolsys Inc.
1900 The Alameda, Suite 420, San Jose, CA 95126

Issued By : Underwriters Laboratories Taiwan Co., Ltd.
Building B and Building E, No. 372-7, Sec. 4, Zhongxing
Rd., Zhudong Township, Hsinchu County, Taiwan



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Doc No: 17-EM-F0886 / 4.0



REVISION HISTORY

Original Test Report No.: 4789813598-US-R2-V0

Rev.	Test report No.	Date	Page revised	Contents
Original	4789813598-US-R2-V0	2021/7/26	-	Initial issue



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1. Attestation of Test Results

APPLICANT: Qolsys Inc.
 1900 The Alameda, Suite 420, San Jose, CA 95126

MANUFACTURER: Funing Precision Component Co, Ltd
 Lot B, Que Vo Industrial Zone, Nam Son Ward, Bac Ninh
 City, Bac Ninh Province, Vietnam.

EUT DESCRIPTION: IQ WiFi 6

BRAND: Qolsys

MODEL: IQ WiFi 6

SAMPLE STAGE: Mass-Production

DATE of TESTED: 2021/4/12 ~ 2021/4/30

APPLICABLE STANDARDS	
STANDARD	Test Results
FCC 47 CFR PART 15 Subpart E (Section 15.407)	PASS

Underwriters Laboratories Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Underwriters Laboratories Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Underwriters Laboratories Taiwan Co., Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Underwriters Laboratories Taiwan Co., Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

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 Project Handler

Date : 2021/7/26

Approved and Authorized By:

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Mike Cai
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Date : 2021/7/26

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2. Test Methodology and Reference Procedures

The tests documented in this report were performed in accordance with KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02, FCC KDB 905462 D06 802 11 Channel Plans v02, KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02.

3. Facilities and Accreditation

Test Location	Underwriters Laboratories Taiwan Co., Ltd.
Address	Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan
Accreditation Certificate	Underwriters Laboratories Taiwan Co., Ltd. is accredited by TAF, Laboratory Code 3398. The full scope of accreditation can be viewed at http://accreditation.taftw.org.tw/taf/public/basic/viewApplyItems.action?unitNo=3398

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4. Equipment under Test

4.1 Description of EUT

Product	IQ WiFi 6
Brand Name	Qolsys
Model Name	IQ WiFi 6
Normal Voltage	120Vac/ 60Hz
S/N	HHA3210500038
Operating Frequency Range	5250~5350MHz 5470~5725MHz
Operational Mode	<input checked="" type="checkbox"/> Master
TPC Function	<input checked="" type="checkbox"/> with TPC
	<input type="checkbox"/> without TPC
Weather Band	<input checked="" type="checkbox"/> with 5600 ~ 5650MHz
	<input type="checkbox"/> without 5600 ~ 5650MHz

Note:

1. The EUT contains following accessory devices.

Product	Brand	Model	Description
AC adapter	Sure Power	SW81-120150-01	Input: 100-240V, 50-60 Hz, 0.68A Output: 12V, 1.5A Length: 1.8m
RJ-45 cable	Neiyi	NYS4681	Non-shielded Length: 1.5m
cradle	N/A	N/A	N/A

2. The above EUT information is declared by manufacturer and for more detailed features description, please refer the manufacturer's or user's manual.

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4.2 EUT Software and Firmware Version

Software/Firmware Version
Qolsys 1.0.0 rc8

4.3 Support Equipment

The EUT has been tested as an independent unit together with other support equipment. The following support equipment were used to form a representative test configuration during the tests.

No.	Equipment	Brand Name	Model Name	FCC ID
1	IQ WiFi 6	Qolsys	IQ WiFi 6	N/A

Note: This device was functioned as a Master Slave device during the DFS test.

4.4 Description of Available Antennas

Ant. No.	Transmitter Circuit	Brand Name	Model Name	Ant. Type	Frequency Band (GHz)	Maximum Gain (dBi)
1	Chain (0)	Passive System Alliance	WA-P-LB-02-849	PIFA	2.4~2.4835	3.74
					5.15~5.35	5.42
					5.47~5.725	5.77
					5.725~5.85	5.51
2	Chain (1)	Passive System Alliance	WA-P-LB-03-172	PIFA	2.4~2.4835	3.43
					5.15~5.35	5.17
					5.47~5.725	5.26
					5.725~5.85	5.26

Note: The above antenna information was provided from customer and for more detailed features description, please refer the manufacturer's specification or user's manual.

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4.5 EUT Maximum Conducted Power

802.11a

Ant No.	Frequency Band (MHz)	MAX. Power	
		Output Power(dBm)	Output Power(mW)
1	5250~5350	19.22	83.56
1	5470~5725	19.25	84.14

802.11ax (HE20)

Ant No.	Frequency Band (MHz)	MAX. Power	
		Output Power(dBm)	Output Power(mW)
1	5250~5350	19.71	93.54
1	5470~5725	19.35	86.10

802.11ax (HE40)

Ant No.	Frequency Band (MHz)	MAX. Power	
		Output Power(dBm)	Output Power(mW)
1	5250~5350	22.62	182.81
1	5470~5725	22.53	179.06

802.11ax (HE80)

Ant No.	Frequency Band (MHz)	MAX. Power	
		Output Power(dBm)	Output Power(mW)
1	5250~5350	21.39	137.72
1	5470~5725	23.46	221.82

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4.6 EUT Maximum E.I.R.P. Power

802.11a

Ant No.	Frequency Band (MHz)	MAX. Power	
		Output Power(dBm)	Output Power(mW)
1	5250~5350	24.64	291.07
1	5470~5725	25.02	317.69

802.11ax (HE20)

Ant No.	Frequency Band (MHz)	MAX. Power	
		Output Power(dBm)	Output Power(mW)
1	5250~5350	25.13	325.84
1	5470~5725	25.12	325.09

802.11ax (HE40)

Ant No.	Frequency Band (MHz)	MAX. Power	
		Output Power(dBm)	Output Power(mW)
1	5250~5350	28.04	636.80
1	5470~5725	28.30	676.08

802.11ax (HE80)

Ant No.	Frequency Band (MHz)	MAX. Power	
		Output Power(dBm)	Output Power(mW)
1	5250~5350	26.81	479.73
1	5470~5725	29.23	837.53

4.7 Test Condition

Test Item	Test Site No.	Environmental Condition	Input Power	Test Date	Tested by
DFS	SR4	22~26°C/ 60~65%RH	120Vac/ 60Hz	2021/04/12~ 2021/04/30	Wayne Chen

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5. Test Equipment

Test Equipment List					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Expired date
Antenna Port Conducted Measurement					
Spectrum Analyzer	Keysight	N9010A	MY56070834	2020/11/6	2021/11/5
Signal Generator	Keysight	N5182B	MY57300028	2020/11/18	2021/11/17

UL Software

Software	Test Item	Version
N7607B Signal Studio	DFS Radar Profiles	3.0.0.0
ISMointor10	DFS measurement	10.0.0.0



6. Test Result

6.1 Transmit Power Control (TPC)

Requirements

U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

Test Data

The UUT can adjust a transmitter's output power based on the signal level present at the receiver. TPC is auto controlled by software.



6.2 Dynamic Frequency Selection (DFS)

6.2.1 Applicability of DFS Requirements

Applicability of DFS Requirements Prior to use of a Channel:

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client with Radar Detection
Non-Occupancy Period	Yes	Yes <small>note</small>	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

Note: Per KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02 section (b)(5/6), If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shut down (rather than moving channels), no beacons should appear. An analyzer plot that contains a single 30-minute sweep on the original channel.

Applicability of DFS Requirements during Normal Operation:

Requirement	Operational Mode	
	Master or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

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

Note: Frequencies selected for statistical performance check 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 all 20 MHz channel blocks and a null frequency between the bonded 20 MHz channel blocks.

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6.2.2 DFS Detection Thresholds and Response Requirement

Below table provides the DFS Detection Thresholds for Master Devices as well as Client Devices incorporating In-Service Monitoring.

DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection:

Maximum Transmit Power	Value (See Notes 1, 2 and 3)
EIRP \geq 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm / MHz	-62 dBm
EIRP < 200 milliwatt and that do not meet the power spectral density requirement	-64 dBm
<p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p>	

DFS Response Requirement Values:

Parameter	Value
Non-occupancy period	Minimum 30 minutes.
Channel Availability Check Time	60 seconds.
Channel Move Time	10 seconds. (See Note 1.)
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. (See Notes 1 and 2.)
U-NII Detection Bandwidth	Minimum 100% of the U- NII 99% transmission power bandwidth. (See Note 3.)
<p>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 a Channel move (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 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p>	

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6.2.3 Radar Test Waveforms

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Short Pulse Radar Test Waveforms:

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note1	See Note1
1		Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

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Long Pulse Radar Test Waveform:

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

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Frequency Hopping Radar Test Waveform:

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

For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm: The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely

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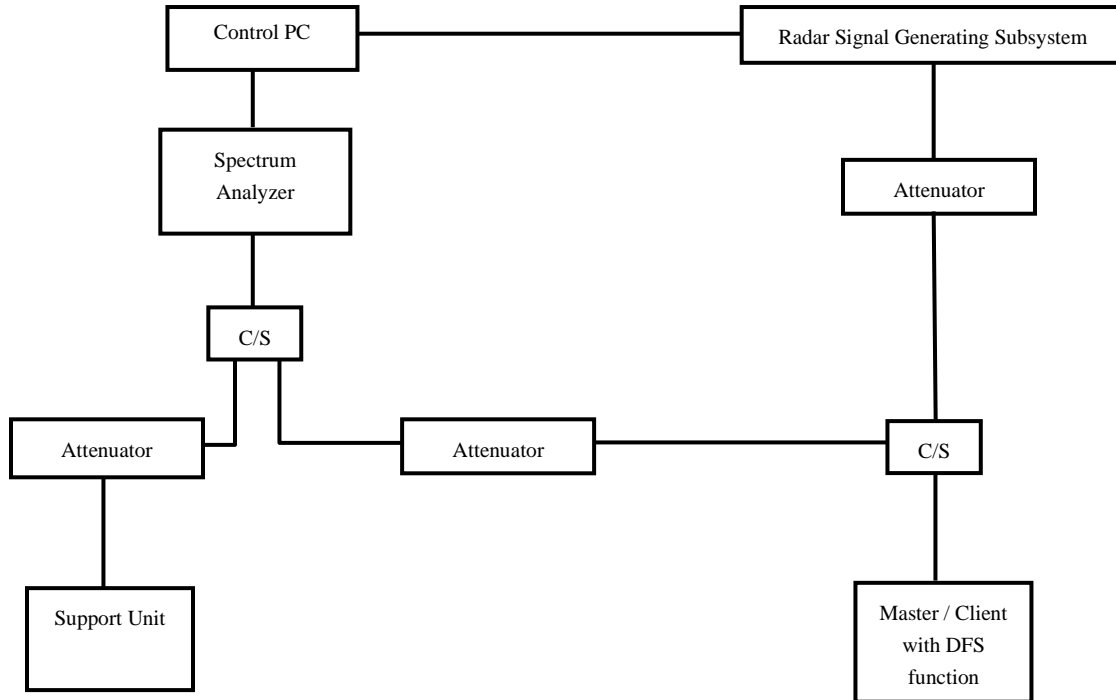
6.2.4 Channel Loading / Data Streaming

System testing will be performed with channel-loading using means appropriate to the data types that are used by the unlicensed device. The following requirements apply:

	a) The data file must be of a type that is typical for the device (i.e., MPEG-2, MPEG-4, WAV, MP3, MP4, AVI, etc.) and must generally be transmitting in a streaming mode.
	b) Software to ping the client is permitted to simulate data transfer but must have random ping intervals.
V	c) Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater.
	d) Unicast or Multicast protocols are preferable but other protocols may be used. The appropriate protocol used must be described in the test procedures.



6.2.5 Test Setup





6.2.6 Test Result

Summary of Test Results

Clause	Test Parameter	Remarks	Pass/Fail
15.407	DFS Detection Threshold	Applicable	PASS
15.407	U-NII Detection Bandwidth	Applicable	PASS
15.407	Channel Availability Check Time	Applicable	PASS
15.407	Channel Move Time	Applicable	PASS
15.407	Channel Closing Transmission Time	Applicable	PASS
15.407	Non- Occupancy Period	Applicable	PASS

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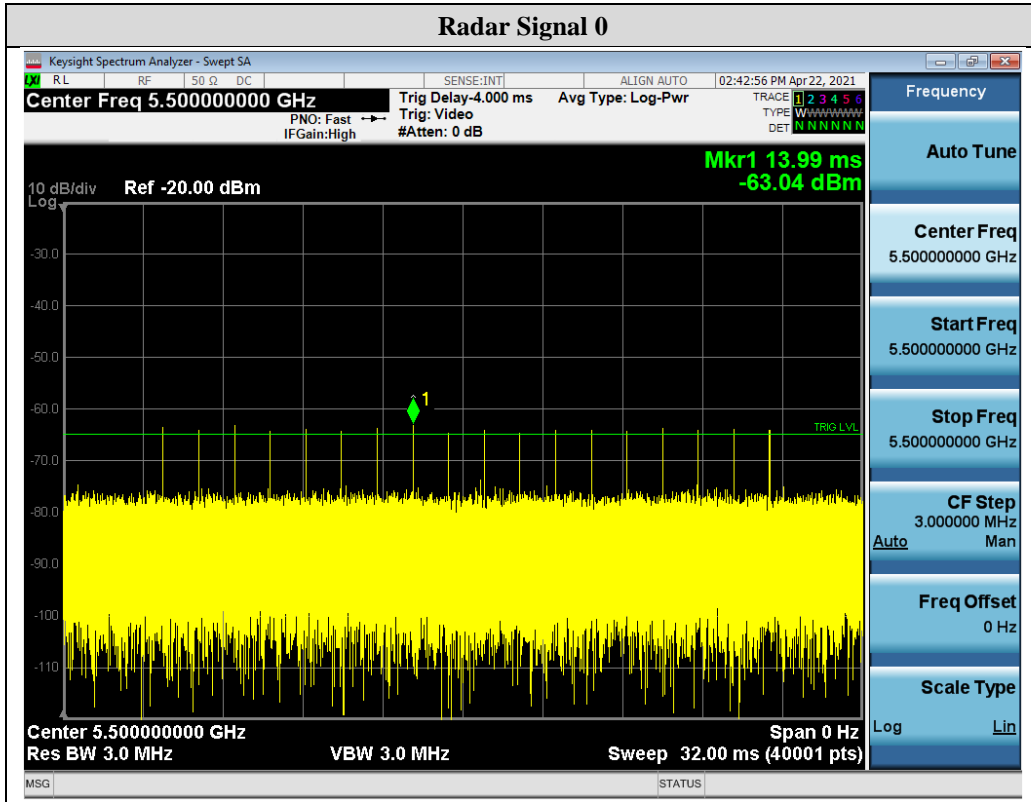
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DFS Detection Threshold

For detection threshold level of -64dBm, the required Radar Signal in front of antenna was set to -64dBm + 1dB = -63 dBm. That had been taken into account the output power range and antenna gain.



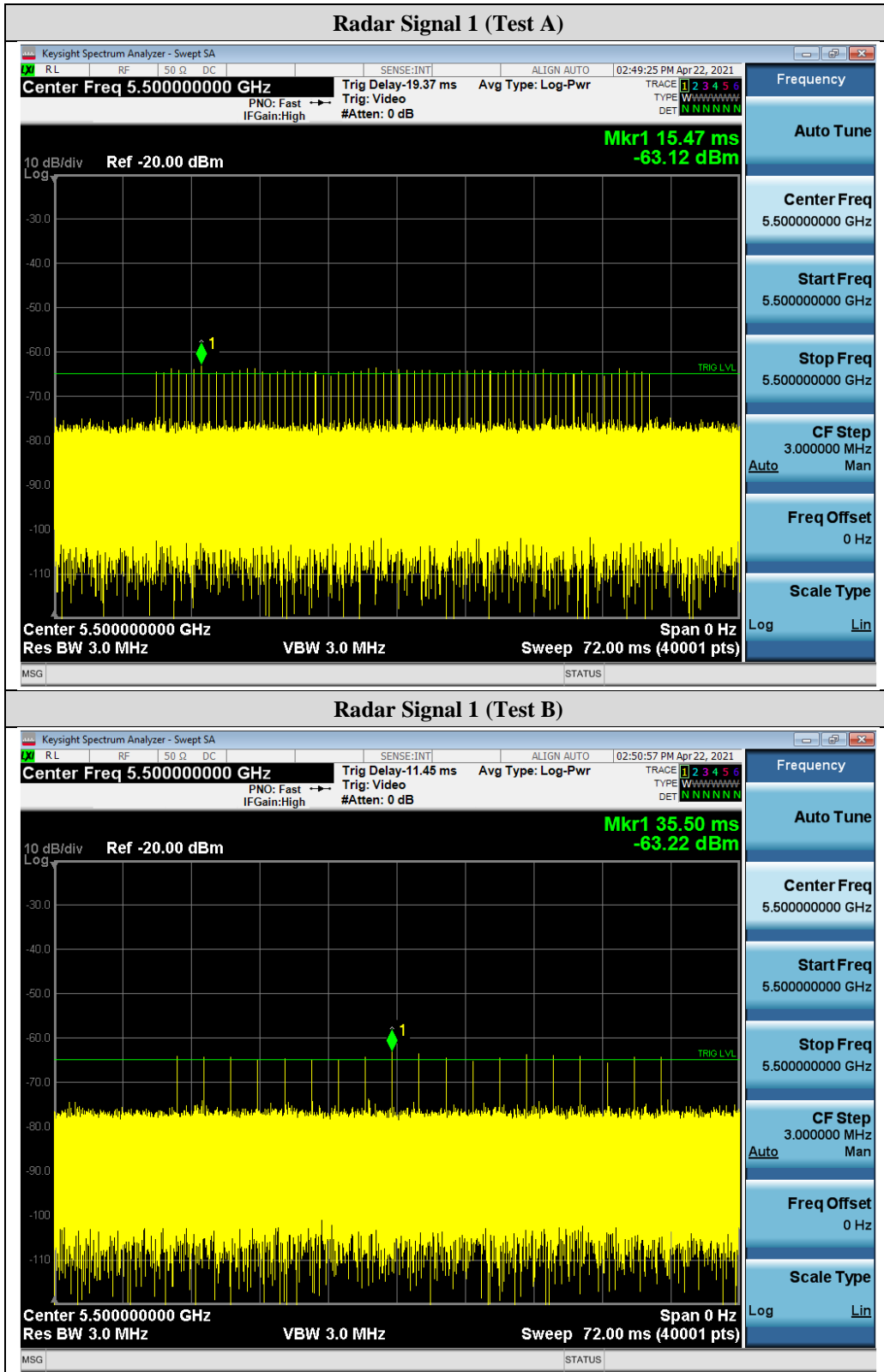
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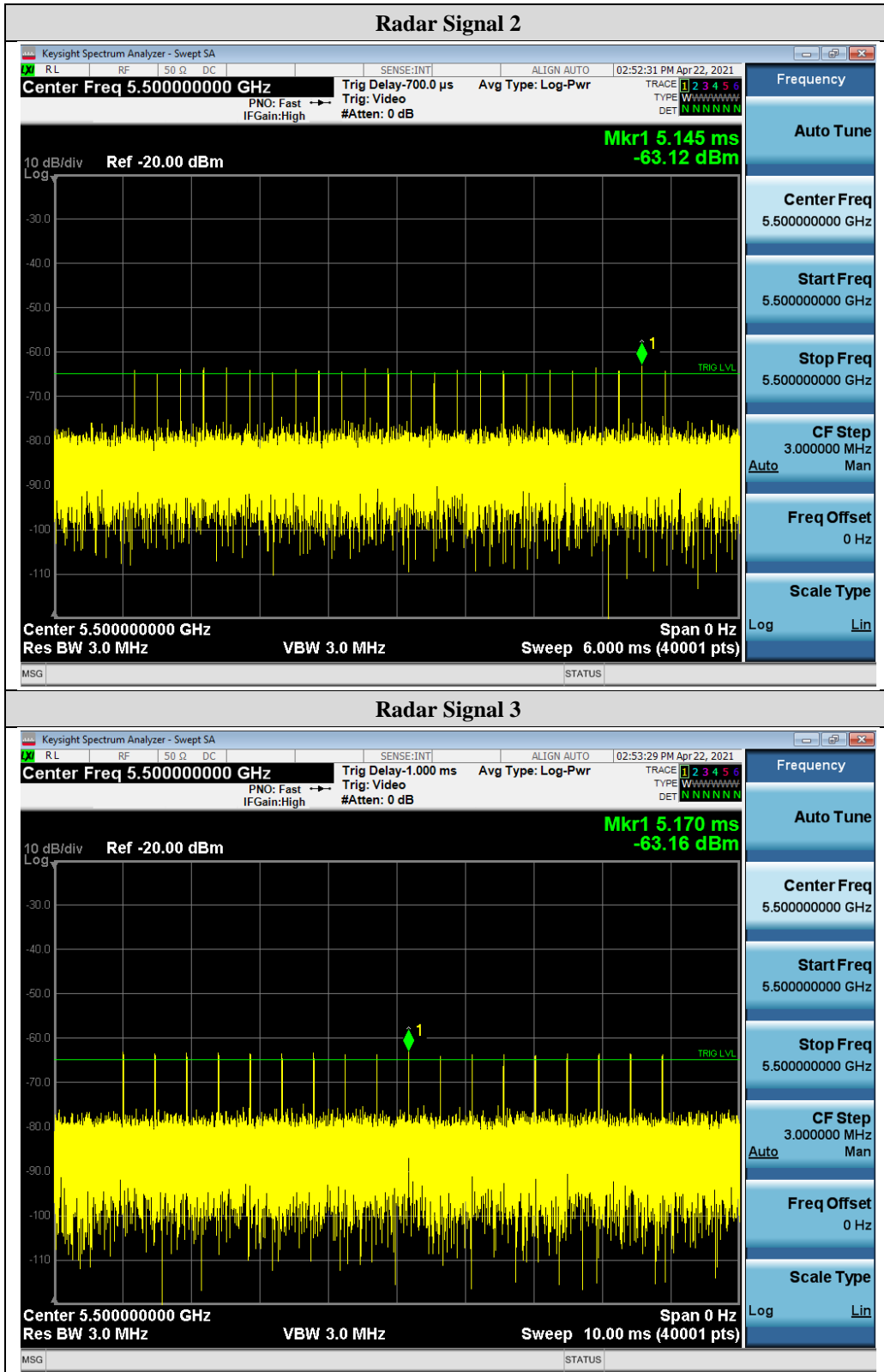


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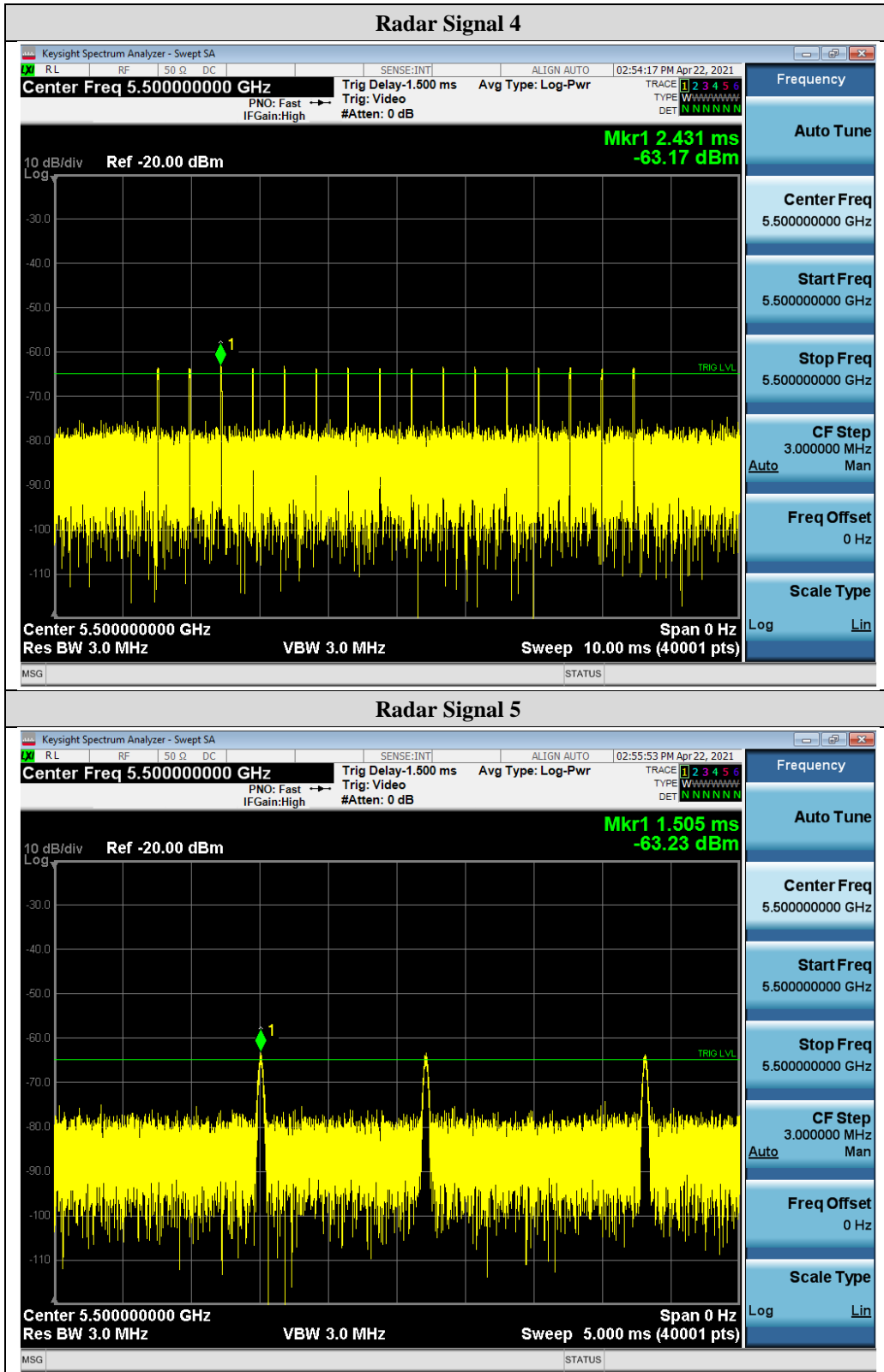


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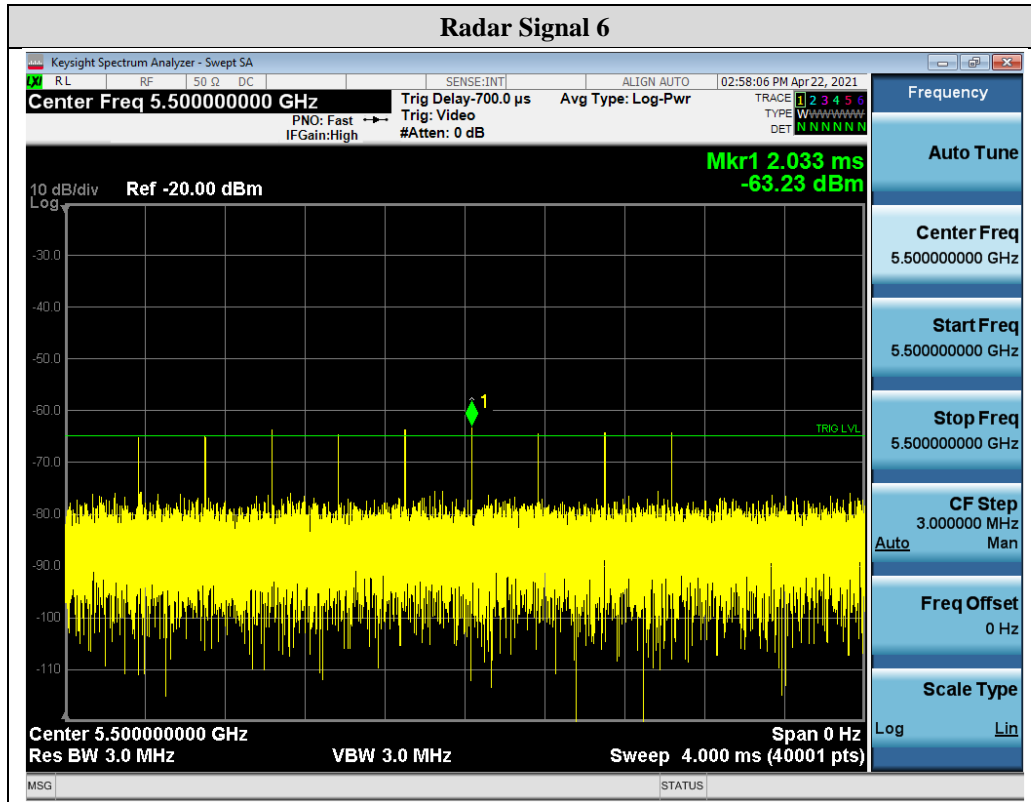


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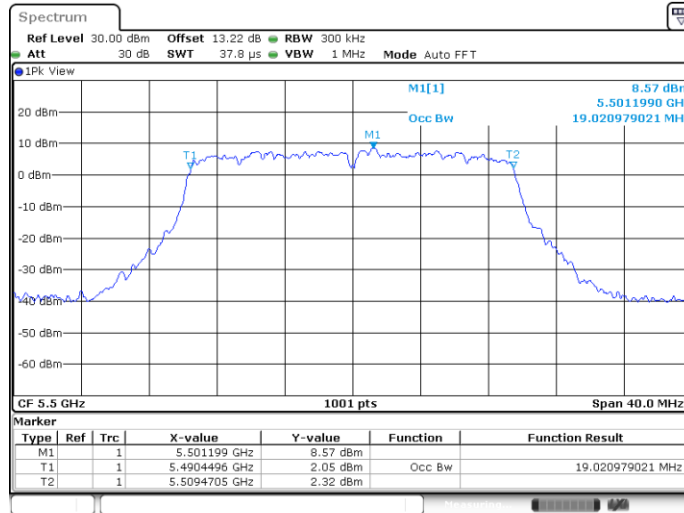
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U-NII Detection Bandwidth

802.11ax (HE20) @ CH 100

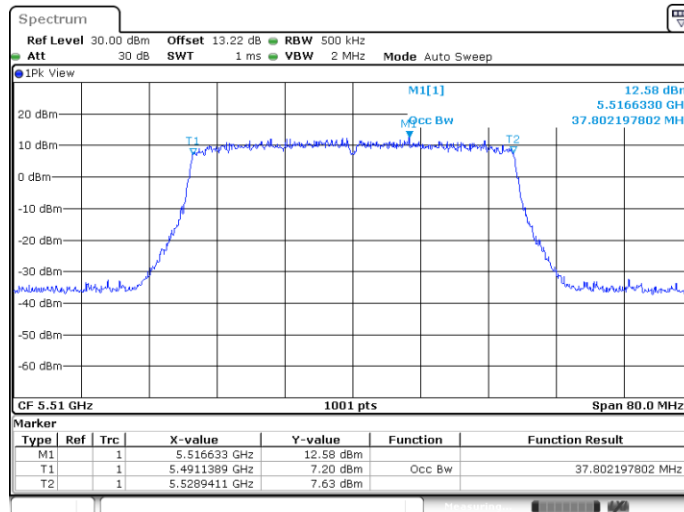
99% Channel bandwidth



Date: 31.MAR.2021 10:28:02

802.11ax (HE40) @ CH 102

99% Channel bandwidth



Date: 31.MAR.2021 13:37:08

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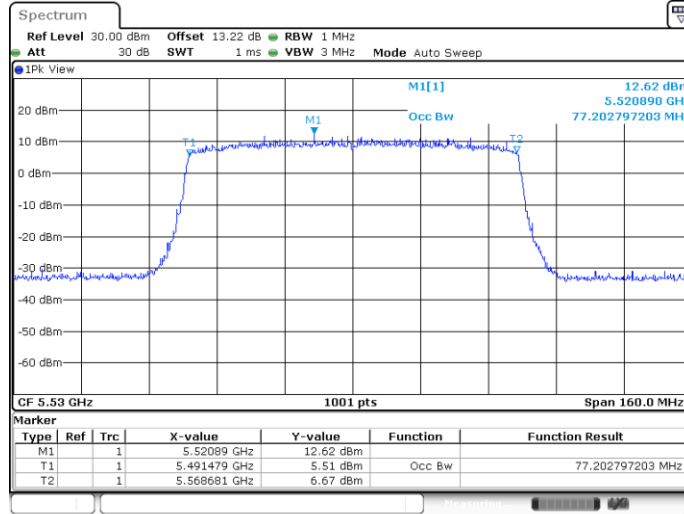
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802.11ax (HE80) @ CH 106

99% Channel bandwidth



Date: 31.MAR.2021 15:03:27

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Detection Bandwidth Test - 802.11ax (HE20)											
Radar Type 0											
EUT Frequency: 5500MHz											
Detection bandwidth limit (100% of EUT 99% Power bandwidth): 19.02MHz											
Detection bandwidth (5510(FH) – 5490(FL)): 20MHz											
Test Result: PASS											
Radar Frequency (MHz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5.490G (FL)	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	90
5.491G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.492G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.493G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.494G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.495G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.496G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.497G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.498G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.499G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.500G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.501G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.502G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.503G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.504G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.505G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.506G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.507G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.508G	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	90
5.509G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.510G(FH)	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	90

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Detection Bandwidth Test - 802.11ax (HE40)											
Radar Type 0											
EUT Frequency: 5510MHz											
Detection bandwidth limit (100% of EUT 99% Power bandwidth): 37.80MHz											
Detection bandwidth (5529(FH) – 5491(FL)): 38MHz											
Test Result: PASS											
Radar Frequency (MHz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5.491G(FL)	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	90
5.492G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.493G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.494G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.495G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.496G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.497G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.498G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.499G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.500G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.501G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.502G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.503G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.504G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.505G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.506G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.507G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.508G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.509G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.510G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.511G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.512G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.513G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.514G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.515G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.516G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.517G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.518G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.519G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.520G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.521G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.522G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.523G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.524G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.525G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.526G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.527G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.528G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.529G(FH)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100

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Detection Bandwidth Test - 802.11ax (HE80)											
Radar Type 0											
EUT Frequency: 5530MHz											
Detection bandwidth limit (100% of EUT 99% Power bandwidth): 77.20MHz											
Detection bandwidth (5569(FH) – 5492(FL)): 78MHz											
Test Result: PASS											
Radar Frequency (MHz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5.491G(FL)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	90
5.492G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.493G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.494G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.495G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.496G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.497G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.498G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.499G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.500G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.501G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.502G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.503G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.504G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.505G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.506G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.507G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.508G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.509G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.510G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.511G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.512G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.513G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.514G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.515G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.516G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.517G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.518G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.519G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.520G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.521G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.522G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.523G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.524G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.525G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.526G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.527G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100

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5.528G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.529G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.530G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.531G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.532G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.533G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.534G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.535G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.536G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.537G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.538G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.539G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.540G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.541G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.542G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.543G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.544G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.545G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.546G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.547G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.548G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.549G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.550G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.551G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.552G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.553G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.554G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.555G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.556G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.557G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.558G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.559G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.560G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.561G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.562G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.563G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.564G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.565G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.566G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.567G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.568G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.569G(FH)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100

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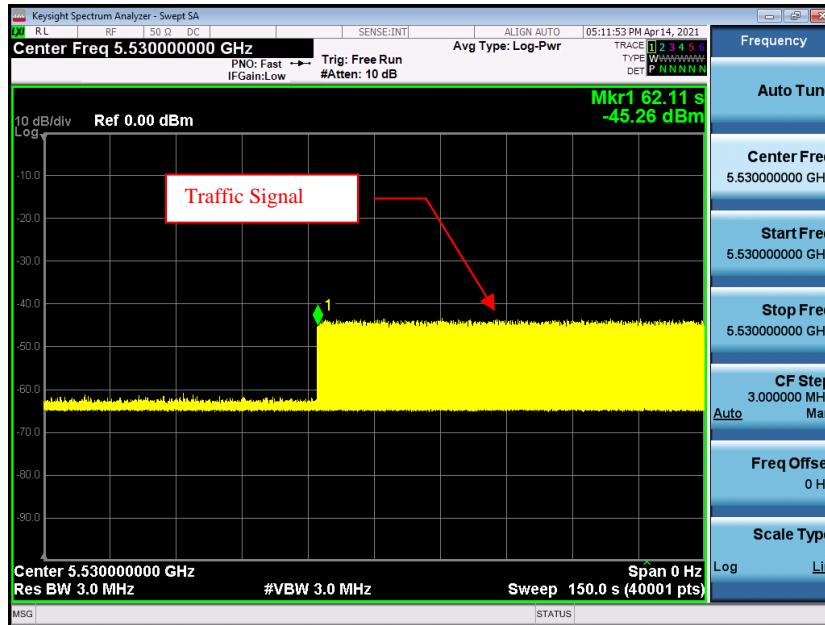
Channel Availability Check Time

If the EUT successfully detected the radar burst, it should be observed as the EUT has no transmissions occurred until the EUT starts transmitting on another channel.

Timing of Radar Signal	Observation	
	EUT	Spectrum Analyzer
Within 1 to 6 second	Detected	No transmissions
Within 54 to 60 second	Detected	No transmissions

Initial Channel Availability Check Time

802.11ax (HE80) @ CH106



NOTE: Mkr1 denotes the end of Channel Availability Check time is 62.11th second. Channel Availability Check time is equal to (Mkr1 – 60) seconds.

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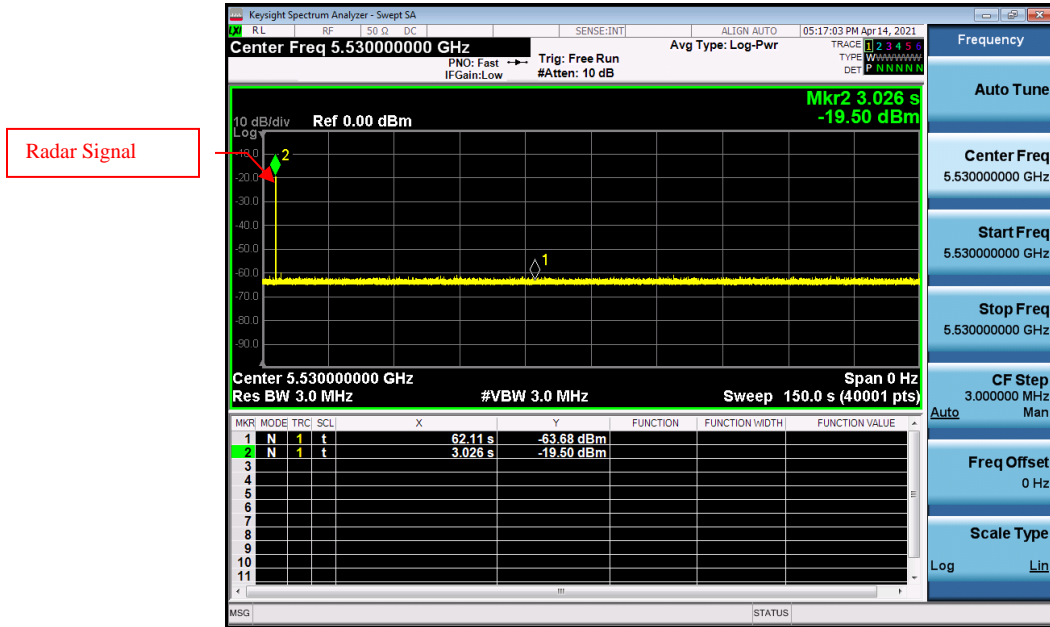
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Radar Burst at the Beginning of the Channel Availability Check Time

802.11ax (HE80) @ CH106



NOTE: The end of power up time period is (Mkr1 – 60) second. Mkr2 denotes 3.026th second and the radar burst was commenced within a 6 second window starting from the end of power-up sequence. Mkr1 denotes the 62.11th second.

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Radar Burst at the End of the Channel Availability Check Time

802.11ax (HE80) @ CH106



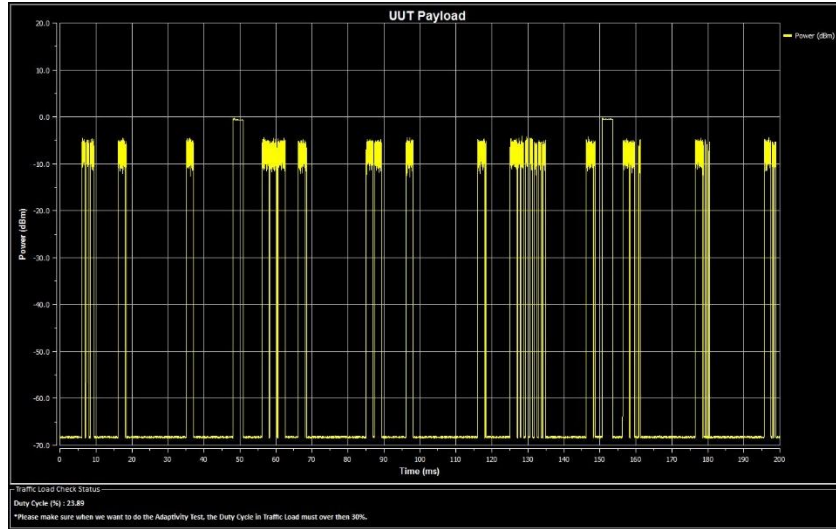
NOTE: The end of power up time period is (Mkr1 – 60) second. Mkr2 denotes 61.03th second and the radar burst was commenced within a 6 second window starting from the end of power-up sequence. Mkr1 denotes the 62.11th second.



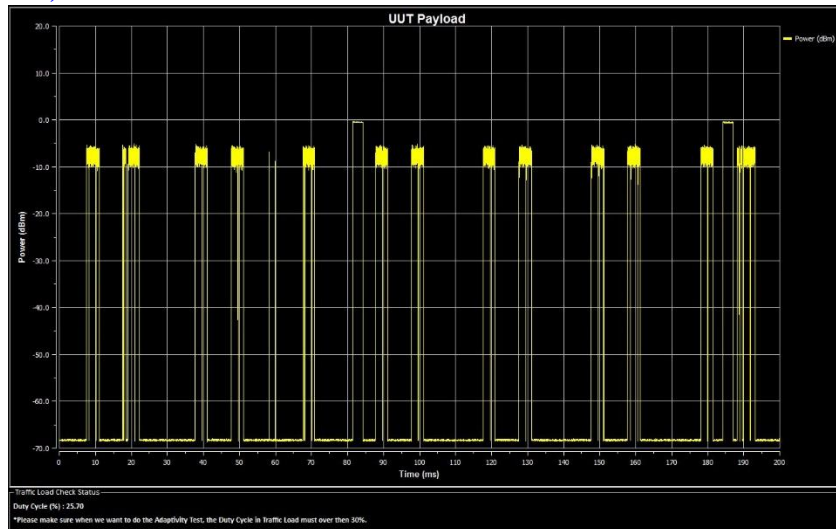
Channel Move Time & Channel Closing Transmission Time

Traffic Loading

802.11ax (HE20) @ CH 100



802.11ax (HE40) @ CH 102



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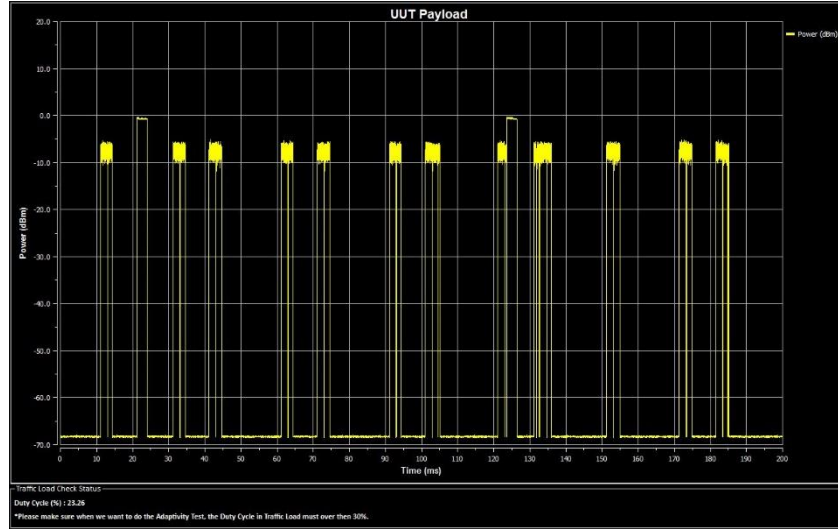
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802.11ax (HE80) @ CH 106



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Test Result of Radars Detection

Short Pulse Radar Type	Number of Trials (Times)			Percentage of Successful Detection (%)		
	802.11ax (HE20)	802.11ax (HE40)	802.11ax (HE80)	802.11ax (HE20)	802.11ax (HE40)	802.11ax (HE80)
	CH 100	CH 102	CH 106	CH 100	CH 102	CH 106
1	30	30	30	93.3	96.7	93.3
2	30	30	30	96.7	96.7	90
3	30	30	30	93.3	96.7	86.7
4	30	30	30	96.7	93.3	93.3
Aggregate (Radar Types 1-4)				95	95.8	88.3
Test Result				PASS	PASS	PASS

Note: Detail about the radar statistical performances shown in Appendix II.

Long Pulse Radar Type	Number of Trials (Times)			Percentage of Successful Detection (%)		
	802.11ax (HE20)	802.11ax (HE40)	802.11ax (HE80)	802.11ax (HE20)	802.11ax (HE40)	802.11ax (HE80)
	CH 100	CH 102	CH 106	CH 100	CH 102	CH 106
5	30	30	30	90	96.7	100
Test Result				PASS	PASS	PASS

Note: Detail about the radar statistical performances shown in Appendix II.

Frequency Hopping Radar Type	Number of Trials (Times)			Percentage of Successful Detection (%)		
	802.11ax (HE20)	802.11ax (HE40)	802.11ax (HE80)	802.11ax (HE20)	802.11ax (HE40)	802.11ax (HE80)
	CH 100	CH 102	CH 106	CH 100	CH 102	CH 106
6	30	30	30	100	100	100
Test Result				PASS	PASS	PASS

Note: Detail about the radar statistical performances shown in Appendix II.

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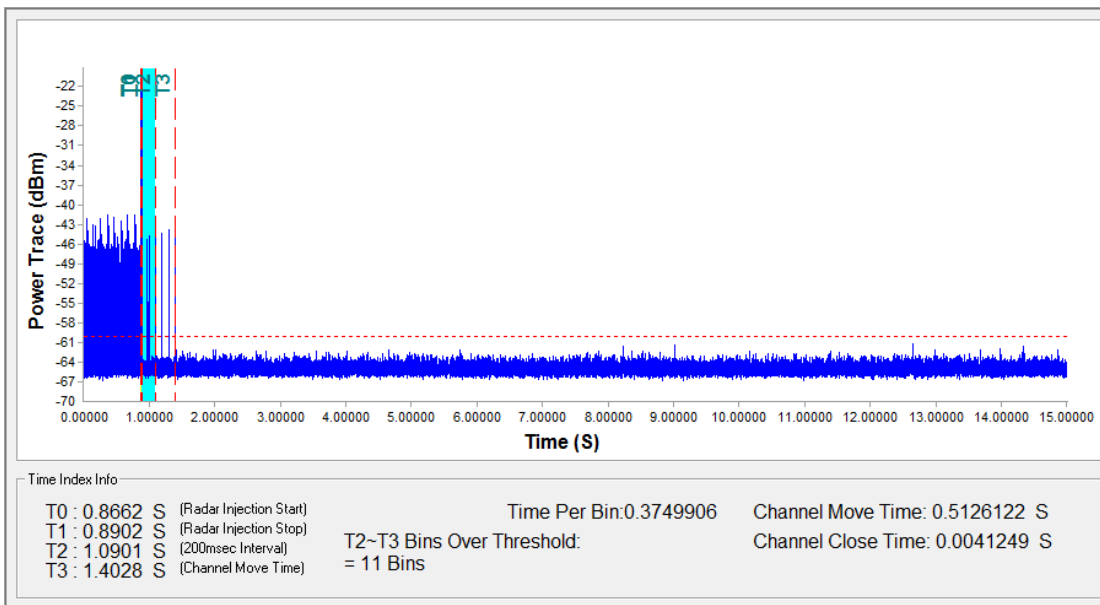


Test Result of Channel Move Time & Channel Closing Transmission Time

802.11ax (HE80) @ CH 106

Radar Signal 0

Channel Move Time(s)	Limit(s)	Result
0.51	10	PASS
Channel Closing Transmission Time(ms)	Limit(ms)	Result
4.12	60	PASS



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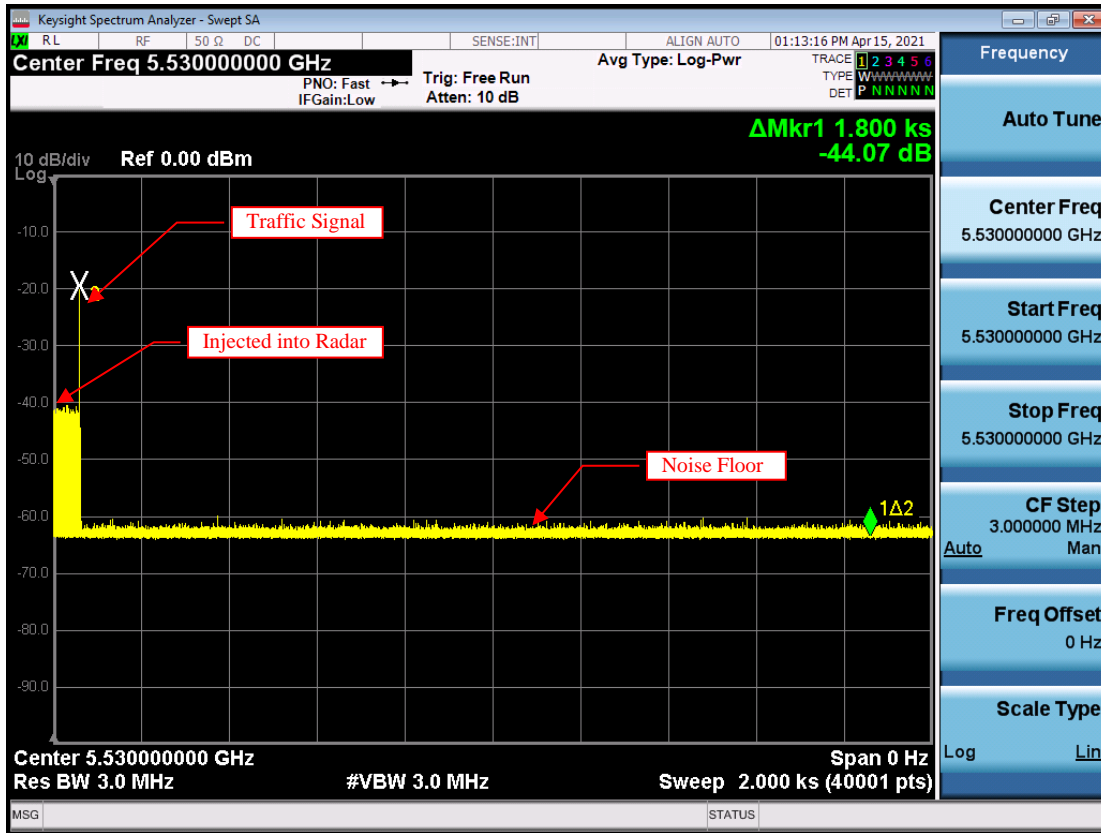
Doc No: 17-EM-F0886 / 4.0



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

802.11ax (HE80) @ CH106



Note:

1. 5530MHz has been monitored in 30 minutes period. In this period, no any transmission occurs.

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Appendix I. Radar Statistical Performances

802.11ax (HE20)

Type 1 Radar Statistical Performances						
Trial #	Test Frequency (MHz)	Pulse Repetition Frequency Number (1 to 23)	Pulse Repetition Frequency (Pulse per seconds)	Pulses per Burst	Pulse Repetition Interval (microseconds)	Detection
1	5500	2	1858.7	99	538.0	Yes
2	5503	22	1066.1	57	938.0	Yes
3	5493	15	1253.1	67	798.0	Yes
4	5505	1	1930.5	102	518.0	Yes
5	5491	13	1319.3	70	758.0	Yes
6	5496	21	1089.3	58	918.0	Yes
7	5505	10	1432.7	76	698.0	Yes
8	5499	8	1519.8	81	658.0	Yes
9	5496	17	1193.3	63	838.0	Yes
10	5494	5	1672.2	89	598.0	Yes
11	5509	12	1355.0	72	738.0	Yes
12	5499	6	1618.1	86	618.0	Yes
13	5496	16	1222.5	65	818.0	Yes
14	5490	20	1113.6	59	898.0	Yes
15	5499	4	1730.1	92	578.0	Yes
16	5493		333.6	18	2998.0	Yes
17	5507		435.5	23	2296.0	Yes
18	5501		331.2	18	3019.0	NO
19	5496		350.4	19	2854.0	Yes
20	5500		1112.3	59	899.0	Yes
21	5501		474.6	26	2107.0	Yes
22	5490		368.6	20	2713.0	Yes
23	5509		571.8	31	1749.0	Yes
24	5510		354.1	19	2824.0	Yes
25	5493		914.9	49	1093.0	Yes
26	5509		361.9	20	2763.0	NO
27	5497		503.0	27	1988.0	Yes
28	5500		762.2	41	1312.0	Yes
29	5493		834.7	45	1198.0	Yes
30	5499		359.6	19	2781.0	Yes

Detection Rate: 93.33 %

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Type 2 Radar Statistical Performances					
Trial #	Test Frequency (MHz)	Pulse Width(us)	PRI(us)	Pulses per Burst	Detection
1	5500	2.6	152.0	25	Yes
2	5493	5.0	213.0	29	Yes
3	5502	1.9	202.0	24	Yes
4	5504	1.5	225.0	23	Yes
5	5490	3.7	172.0	27	Yes
6	5495	2.7	171.0	26	Yes
7	5509	2.0	160.0	24	Yes
8	5491	3.6	195.0	27	Yes
9	5491	3.4	191.0	27	Yes
10	5494	2.9	193.0	26	Yes
11	5508	1.4	216.0	23	Yes
12	5492	5.0	218.0	29	Yes
13	5493	4.6	167.0	29	Yes
14	5496	1.1	198.0	23	Yes
15	5506	2.5	183.0	25	Yes
16	5491	1.3	158.0	23	Yes
17	5493	2.9	217.0	26	Yes
18	5508	4.3	150.0	28	Yes
19	5509	2.8	177.0	26	Yes
20	5492	3.2	164.0	26	NO
21	5500	1.5	162.0	23	Yes
22	5498	4.2	156.0	28	Yes
23	5510	4.3	153.0	28	Yes
24	5495	3.5	174.0	27	Yes
25	5496	3.6	220.0	27	Yes
26	5508	4.8	185.0	29	Yes
27	5505	4.2	208.0	28	Yes
28	5498	1.6	200.0	24	Yes
29	5505	3.2	199.0	26	Yes
30	5495	2.7	169.0	26	Yes
					Detection Rate:96.67 %

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Type 3 Radar Statistical Performances					
Trial #	Test Frequency (MHz)	Pulse Width(us)	PRI(us)	Pulses per Burst	Detection
1	5500	7.6	344.0	17	Yes
2	5507	10.0	463.0	18	Yes
3	5501	6.9	420.0	16	Yes
4	5497	6.5	322.0	16	Yes
5	5492	8.7	264.0	17	Yes
6	5508	7.7	324.0	17	Yes
7	5508	7.0	382.0	16	Yes
8	5495	8.6	335.0	17	NO
9	5499	8.4	399.0	17	Yes
10	5492	7.9	468.0	17	Yes
11	5492	6.4	332.0	16	Yes
12	5493	10.0	494.0	18	Yes
13	5509	9.6	445.0	18	Yes
14	5498	6.1	310.0	16	Yes
15	5505	7.5	383.0	17	Yes
16	5496	6.3	343.0	16	Yes
17	5491	7.9	453.0	17	Yes
18	5500	9.3	245.0	18	Yes
19	5503	7.8	232.0	17	Yes
20	5497	8.2	364.0	17	Yes
21	5497	6.5	274.0	16	Yes
22	5502	9.2	427.0	18	Yes
23	5506	9.3	296.0	18	Yes
24	5510	8.5	312.0	17	Yes
25	5502	8.6	246.0	17	Yes
26	5503	9.8	262.0	18	Yes
27	5492	9.2	307.0	18	Yes
28	5503	6.6	446.0	16	Yes
29	5509	8.2	229.0	17	Yes
30	5503	7.7	459.0	17	NO

Detection Rate: 93.33 %

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Type 4 Radar Statistical Performances					
Trial #	Test Frequency (MHz)	Pulse Width(us)	PRI(us)	Pulses per Burst	Detection
1	5500	14.5	344.0	13	Yes
2	5508	20.0	463.0	16	Yes
3	5498	13.0	420.0	13	Yes
4	5497	12.1	322.0	12	Yes
5	5492	17.0	264.0	15	Yes
6	5507	14.9	324.0	14	Yes
7	5497	13.4	382.0	13	Yes
8	5496	16.9	335.0	15	Yes
9	5494	16.4	399.0	14	Yes
10	5497	15.2	468.0	14	Yes
11	5496	11.9	332.0	12	Yes
12	5491	19.9	494.0	16	Yes
13	5493	19.2	445.0	16	Yes
14	5492	11.2	310.0	12	Yes
15	5501	14.3	383.0	13	Yes
16	5495	11.7	343.0	12	Yes
17	5504	15.2	453.0	14	Yes
18	5503	18.3	245.0	16	Yes
19	5510	15.1	232.0	14	Yes
20	5492	15.9	364.0	14	Yes
21	5501	12.2	274.0	12	Yes
22	5504	18.1	427.0	15	Yes
23	5495	18.3	296.0	16	Yes
24	5503	16.5	312.0	15	Yes
25	5510	16.8	246.0	15	Yes
26	5503	19.4	262.0	16	Yes
27	5500	18.1	307.0	15	Yes
28	5505	12.3	446.0	12	Yes
29	5497	15.9	229.0	14	NO
30	5503	14.9	459.0	14	Yes

Detection Rate: 96.67 %

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Type 5 Radar Statistical Performances				
Trial #	Minimum Chirp Width(MHz)	Chirp Center Frequency(MHz)	Test Signal Name	Detection
1	11	5500	LP_Signal_01	YES
2	20	5500	LP_Signal_02	YES
3	8	5500	LP_Signal_03	YES
4	6	5500	LP_Signal_04	YES
5	15	5500	LP_Signal_05	YES
6	11	5500	LP_Signal_06	YES
7	9	5500	LP_Signal_07	YES
8	15	5500	LP_Signal_08	YES
9	14	5500	LP_Signal_09	YES
10	12	5500	LP_Signal_10	YES
11	6	5492.4	LP_Signal_11	YES
12	20	5498	LP_Signal_12	YES
13	19	5497.6	LP_Signal_13	YES
14	5	5492	LP_Signal_14	YES
15	10	5494	LP_Signal_15	YES
16	6	5492.4	LP_Signal_16	YES
17	12	5494.8	LP_Signal_17	NO
18	17	5496.8	LP_Signal_18	YES
19	12	5494.8	LP_Signal_19	NO
20	13	5495.2	LP_Signal_20	NO
21	7	5507.2	LP_Signal_21	YES
22	17	5503.2	LP_Signal_22	YES
23	17	5503.2	LP_Signal_23	YES
24	14	5504.4	LP_Signal_24	YES
25	15	5504	LP_Signal_25	YES
26	19	5502.4	LP_Signal_26	YES
27	17	5503.2	LP_Signal_27	YES
28	7	5507.2	LP_Signal_28	YES
29	13	5504.8	LP_Signal_29	YES
30	11	5505.6	LP_Signal_30	YES

Detection Rate: 90 %

Note: Detail about the long pulse radar pattern shown in Appendix III.

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Type 6 Radar Statistical Performances					
Trial #	Pulses per Burst	Pulse Width(us)	PRI(us)	Hopping Frequency Sequence Name	Detection
1	9	1	333.3	HOP_FREQ_SEQ_01	Yes
2	9	1	333.3	HOP_FREQ_SEQ_02	Yes
3	9	1	333.3	HOP_FREQ_SEQ_03	Yes
4	9	1	333.3	HOP_FREQ_SEQ_04	Yes
5	9	1	333.3	HOP_FREQ_SEQ_05	Yes
6	9	1	333.3	HOP_FREQ_SEQ_06	Yes
7	9	1	333.3	HOP_FREQ_SEQ_07	Yes
8	9	1	333.3	HOP_FREQ_SEQ_08	Yes
9	9	1	333.3	HOP_FREQ_SEQ_09	Yes
10	9	1	333.3	HOP_FREQ_SEQ_10	Yes
11	9	1	333.3	HOP_FREQ_SEQ_11	Yes
12	9	1	333.3	HOP_FREQ_SEQ_12	Yes
13	9	1	333.3	HOP_FREQ_SEQ_13	Yes
14	9	1	333.3	HOP_FREQ_SEQ_14	Yes
15	9	1	333.3	HOP_FREQ_SEQ_15	Yes
16	9	1	333.3	HOP_FREQ_SEQ_16	Yes
17	9	1	333.3	HOP_FREQ_SEQ_17	Yes
18	9	1	333.3	HOP_FREQ_SEQ_18	Yes
19	9	1	333.3	HOP_FREQ_SEQ_19	Yes
20	9	1	333.3	HOP_FREQ_SEQ_20	Yes
21	9	1	333.3	HOP_FREQ_SEQ_21	Yes
22	9	1	333.3	HOP_FREQ_SEQ_22	Yes
23	9	1	333.3	HOP_FREQ_SEQ_23	Yes
24	9	1	333.3	HOP_FREQ_SEQ_24	Yes
25	9	1	333.3	HOP_FREQ_SEQ_25	Yes
26	9	1	333.3	HOP_FREQ_SEQ_26	Yes
27	9	1	333.3	HOP_FREQ_SEQ_27	Yes
28	9	1	333.3	HOP_FREQ_SEQ_28	Yes
29	9	1	333.3	HOP_FREQ_SEQ_29	Yes
30	9	1	333.3	HOP_FREQ_SEQ_30	Yes

Detection Rate: 100 %

Note: Detail about the hopping frequency sequence pattern shown in Appendix III.

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802.11ax (HE40)

Type 1 Radar Statistical Performances						
Trial #	Test Frequency (MHz)	Pulse Repetition Frequency Number (1 to 23)	Pulse Repetition Frequency (Pulse per seconds)	Pulses per Burst	Pulse Repetition Interval (microseconds)	Detection
1	5510	2	1858.7	99	538.0	Yes
2	5520	22	1066.1	57	938.0	Yes
3	5500	15	1253.1	67	798.0	Yes
4	5521	1	1930.5	102	518.0	Yes
5	5515	13	1319.3	70	758.0	Yes
6	5522	21	1089.3	58	918.0	Yes
7	5492	10	1432.7	76	698.0	Yes
8	5518	8	1519.8	81	658.0	Yes
9	5513	17	1193.3	63	838.0	Yes
10	5526	5	1672.2	89	598.0	Yes
11	5494	12	1355.0	72	738.0	NO
12	5523	6	1618.1	86	618.0	Yes
13	5524	16	1222.5	65	818.0	Yes
14	5512	20	1113.6	59	898.0	Yes
15	5528	4	1730.1	92	578.0	Yes
16	5516		333.6	18	2998.0	Yes
17	5519		435.5	23	2296.0	Yes
18	5507		331.2	18	3019.0	Yes
19	5527		350.4	19	2854.0	Yes
20	5493		1112.3	59	899.0	Yes
21	5499		474.6	26	2107.0	Yes
22	5502		368.6	20	2713.0	Yes
23	5525		571.8	31	1749.0	Yes
24	5506		354.1	19	2824.0	Yes
25	5508		914.9	49	1093.0	Yes
26	5497		361.9	20	2763.0	Yes
27	5495		503.0	27	1988.0	Yes
28	5514		762.2	41	1312.0	Yes
29	5529		834.7	45	1198.0	Yes
30	5517		359.6	19	2781.0	Yes

Detection Rate: 96.67 %

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Type 2 Radar Statistical Performances					
Trial #	Test Frequency (MHz)	Pulse Width(us)	PRI(us)	Pulses per Burst	Detection
1	5510	2.6	152.0	25	Yes
2	5520	5.0	213.0	29	Yes
3	5500	1.9	202.0	24	Yes
4	5524	1.5	225.0	23	Yes
5	5518	3.7	172.0	27	Yes
6	5522	2.7	171.0	26	Yes
7	5495	2.0	160.0	24	Yes
8	5528	3.6	195.0	27	Yes
9	5494	3.4	191.0	27	Yes
10	5508	2.9	193.0	26	Yes
11	5529	1.4	216.0	23	NO
12	5509	5.0	218.0	29	Yes
13	5514	4.6	167.0	29	Yes
14	5529	1.1	198.0	23	Yes
15	5515	2.5	183.0	25	Yes
16	5498	1.3	158.0	23	Yes
17	5527	2.9	217.0	26	Yes
18	5516	4.3	150.0	28	Yes
19	5513	2.8	177.0	26	Yes
20	5523	3.2	164.0	26	Yes
21	5517	1.5	162.0	23	Yes
22	5521	4.2	156.0	28	Yes
23	5496	4.3	153.0	28	Yes
24	5493	3.5	174.0	27	Yes
25	5525	3.6	220.0	27	Yes
26	5519	4.8	185.0	29	Yes
27	5507	4.2	208.0	28	Yes
28	5497	1.6	200.0	24	Yes
29	5511	3.2	199.0	26	Yes
30	5491	2.7	169.0	26	Yes
					Detection Rate: 96.67 %

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Type 3 Radar Statistical Performances					
Trial #	Test Frequency (MHz)	Pulse Width(us)	PRI(us)	Pulses per Burst	Detection
1	5510	7.6	344.0	17	Yes
2	5520	10.0	463.0	18	Yes
3	5500	6.9	420.0	16	Yes
4	5514	6.5	322.0	16	Yes
5	5519	8.7	264.0	17	Yes
6	5516	7.7	324.0	17	Yes
7	5524	7.0	382.0	16	Yes
8	5491	8.6	335.0	17	Yes
9	5495	8.4	399.0	17	Yes
10	5492	7.9	468.0	17	Yes
11	5505	6.4	332.0	16	Yes
12	5499	10.0	494.0	18	Yes
13	5491	9.6	445.0	18	Yes
14	5516	6.1	310.0	16	Yes
15	5515	7.5	383.0	17	Yes
16	5499	6.3	343.0	16	Yes
17	5521	7.9	453.0	17	Yes
18	5509	9.3	245.0	18	Yes
19	5528	7.8	232.0	17	Yes
20	5518	8.2	364.0	17	Yes
21	5525	6.5	274.0	16	Yes
22	5523	9.2	427.0	18	Yes
23	5521	9.3	296.0	18	Yes
24	5504	8.5	312.0	17	Yes
25	5493	8.6	246.0	17	NO
26	5525	9.8	262.0	18	Yes
27	5523	9.2	307.0	18	Yes
28	5529	6.6	446.0	16	Yes
29	5525	8.2	229.0	17	Yes
30	5496	7.7	459.0	17	Yes

Detection Rate: 96.67 %

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Type 4 Radar Statistical Performances					
Trial #	Test Frequency (MHz)	Pulse Width(us)	PRI(us)	Pulses per Burst	Detection
1	5510	14.5	344.0	13	Yes
2	5520	20.0	463.0	16	Yes
3	5500	13.0	420.0	13	Yes
4	5492	12.1	322.0	12	NO
5	5495	17.0	264.0	15	Yes
6	5491	14.9	324.0	14	Yes
7	5514	13.4	382.0	13	Yes
8	5493	16.9	335.0	15	Yes
9	5507	16.4	399.0	14	Yes
10	5525	15.2	468.0	14	Yes
11	5499	11.9	332.0	12	Yes
12	5512	19.9	494.0	16	Yes
13	5514	19.2	445.0	16	Yes
14	5491	11.2	310.0	12	NO
15	5510	14.3	383.0	13	Yes
16	5503	11.7	343.0	12	Yes
17	5509	15.2	453.0	14	Yes
18	5495	18.3	245.0	16	Yes
19	5521	15.1	232.0	14	Yes
20	5511	15.9	364.0	14	Yes
21	5514	12.2	274.0	12	Yes
22	5518	18.1	427.0	15	Yes
23	5501	18.3	296.0	16	Yes
24	5510	16.5	312.0	15	Yes
25	5493	16.8	246.0	15	Yes
26	5518	19.4	262.0	16	Yes
27	5501	18.1	307.0	15	Yes
28	5522	12.3	446.0	12	Yes
29	5509	15.9	229.0	14	Yes
30	5525	14.9	459.0	14	Yes
					Detection Rate: 93.33 %

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Type 5 Radar Statistical Performances				
Trial #	Minimum Chirp Width(MHz)	Chirp Center Frequency(MHz)	Test Signal Name	Detection
1	11	5510	LP_Signal_01	YES
2	20	5510	LP_Signal_02	YES
3	8	5510	LP_Signal_03	YES
4	6	5510	LP_Signal_04	YES
5	15	5510	LP_Signal_05	YES
6	11	5510	LP_Signal_06	YES
7	9	5510	LP_Signal_07	YES
8	15	5510	LP_Signal_08	YES
9	14	5510	LP_Signal_09	YES
10	12	5510	LP_Signal_10	YES
11	6	5493.4	LP_Signal_11	NO
12	20	5499	LP_Signal_12	YES
13	19	5498.6	LP_Signal_13	YES
14	5	5493	LP_Signal_14	YES
15	10	5495	LP_Signal_15	YES
16	6	5493.4	LP_Signal_16	YES
17	12	5495.8	LP_Signal_17	YES
18	17	5497.8	LP_Signal_18	YES
19	12	5495.8	LP_Signal_19	YES
20	13	5496.2	LP_Signal_20	YES
21	7	5526.2	LP_Signal_21	YES
22	17	5522.2	LP_Signal_22	YES
23	17	5522.2	LP_Signal_23	YES
24	14	5523.4	LP_Signal_24	YES
25	15	5523	LP_Signal_25	YES
26	19	5521.4	LP_Signal_26	YES
27	17	5522.2	LP_Signal_27	YES
28	7	5526.2	LP_Signal_28	YES
29	13	5523.8	LP_Signal_29	YES
30	11	5524.6	LP_Signal_30	YES

Detection Rate: 96.67 %

Note: Detail about the long pulse radar pattern shown in Appendix III.

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Type 6 Radar Statistical Performances					
Trial #	Pulses per Burst	Pulse Width(us)	PRI(us)	Hopping Frequency Sequence Name	Detection
1	9	1	333.3	HOP_FREQ_SEQ_01	Yes
2	9	1	333.3	HOP_FREQ_SEQ_02	Yes
3	9	1	333.3	HOP_FREQ_SEQ_03	Yes
4	9	1	333.3	HOP_FREQ_SEQ_04	Yes
5	9	1	333.3	HOP_FREQ_SEQ_05	Yes
6	9	1	333.3	HOP_FREQ_SEQ_06	Yes
7	9	1	333.3	HOP_FREQ_SEQ_07	Yes
8	9	1	333.3	HOP_FREQ_SEQ_08	Yes
9	9	1	333.3	HOP_FREQ_SEQ_09	Yes
10	9	1	333.3	HOP_FREQ_SEQ_10	Yes
11	9	1	333.3	HOP_FREQ_SEQ_11	Yes
12	9	1	333.3	HOP_FREQ_SEQ_12	Yes
13	9	1	333.3	HOP_FREQ_SEQ_13	Yes
14	9	1	333.3	HOP_FREQ_SEQ_14	Yes
15	9	1	333.3	HOP_FREQ_SEQ_15	Yes
16	9	1	333.3	HOP_FREQ_SEQ_16	Yes
17	9	1	333.3	HOP_FREQ_SEQ_17	Yes
18	9	1	333.3	HOP_FREQ_SEQ_18	Yes
19	9	1	333.3	HOP_FREQ_SEQ_19	Yes
20	9	1	333.3	HOP_FREQ_SEQ_20	Yes
21	9	1	333.3	HOP_FREQ_SEQ_21	Yes
22	9	1	333.3	HOP_FREQ_SEQ_22	Yes
23	9	1	333.3	HOP_FREQ_SEQ_23	Yes
24	9	1	333.3	HOP_FREQ_SEQ_24	Yes
25	9	1	333.3	HOP_FREQ_SEQ_25	Yes
26	9	1	333.3	HOP_FREQ_SEQ_26	Yes
27	9	1	333.3	HOP_FREQ_SEQ_27	Yes
28	9	1	333.3	HOP_FREQ_SEQ_28	Yes
29	9	1	333.3	HOP_FREQ_SEQ_29	Yes
30	9	1	333.3	HOP_FREQ_SEQ_30	Yes

Detection Rate: 100 %

Note: Detail about the hopping frequency sequence pattern shown in Appendix III.

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802.11ax (HE80)

Type 1 Radar Statistical Performances						
Trial #	Test Frequency (MHz)	Pulse Repetition Frequency Number (1 to 23)	Pulse Repetition Frequency (Pulse per seconds)	Pulses per Burst	Pulse Repetition Interval (microseconds)	Detection
1	5530	2	1858.7	99	538.0	Yes
2	5540	22	1066.1	57	938.0	Yes
3	5560	15	1253.1	67	798.0	Yes
4	5520	1	1930.5	102	518.0	Yes
5	5500	13	1319.3	70	758.0	Yes
6	5520	21	1089.3	58	918.0	Yes
7	5564	10	1432.7	76	698.0	NO
8	5541	8	1519.8	81	658.0	Yes
9	5498	17	1193.3	63	838.0	Yes
10	5517	5	1672.2	89	598.0	Yes
11	5495	12	1355.0	72	738.0	Yes
12	5496	6	1618.1	86	618.0	Yes
13	5502	16	1222.5	65	818.0	Yes
14	5526	20	1113.6	59	898.0	Yes
15	5520	4	1730.1	92	578.0	Yes
16	5503		333.6	18	2998.0	Yes
17	5554		435.5	23	2296.0	Yes
18	5521		331.2	18	3019.0	Yes
19	5494		350.4	19	2854.0	NO
20	5530		1112.3	59	899.0	Yes
21	5555		474.6	26	2107.0	Yes
22	5564		368.6	20	2713.0	Yes
23	5524		571.8	31	1749.0	Yes
24	5552		354.1	19	2824.0	Yes
25	5527		914.9	49	1093.0	Yes
26	5545		361.9	20	2763.0	Yes
27	5507		503.0	27	1988.0	Yes
28	5567		762.2	41	1312.0	Yes
29	5560		834.7	45	1198.0	Yes
30	5495		359.6	19	2781.0	Yes

Detection Rate: 93.33 %

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Type 2 Radar Statistical Performances					
Trial #	Test Frequency (MHz)	Pulse Width(us)	PRI(us)	Pulses per Burst	Detection
1	5530	2.6	152.0	25	Yes
2	5540	5.0	213.0	29	Yes
3	5560	1.9	202.0	24	Yes
4	5520	1.5	225.0	23	Yes
5	5500	3.7	172.0	27	Yes
6	5519	2.7	171.0	26	Yes
7	5506	2.0	160.0	24	NO
8	5532	3.6	195.0	27	Yes
9	5536	3.4	191.0	27	Yes
10	5495	2.9	193.0	26	Yes
11	5514	1.4	216.0	23	Yes
12	5534	5.0	218.0	29	Yes
13	5560	4.6	167.0	29	Yes
14	5497	1.1	198.0	23	Yes
15	5565	2.5	183.0	25	NO
16	5559	1.3	158.0	23	Yes
17	5524	2.9	217.0	26	Yes
18	5509	4.3	150.0	28	Yes
19	5534	2.8	177.0	26	Yes
20	5493	3.2	164.0	26	Yes
21	5496	1.5	162.0	23	Yes
22	5526	4.2	156.0	28	Yes
23	5494	4.3	153.0	28	NO
24	5536	3.5	174.0	27	Yes
25	5532	3.6	220.0	27	Yes
26	5541	4.8	185.0	29	Yes
27	5497	4.2	208.0	28	Yes
28	5499	1.6	200.0	24	Yes
29	5547	3.2	199.0	26	Yes
30	5512	2.7	169.0	26	Yes

Detection Rate: 90 %

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Type 3 Radar Statistical Performances					
Trial #	Test Frequency (MHz)	Pulse Width(us)	PRI(us)	Pulses per Burst	Detection
1	5530	7.6	344.0	17	Yes
2	5540	10.0	463.0	18	Yes
3	5560	6.9	420.0	16	Yes
4	5520	6.5	322.0	16	Yes
5	5500	8.7	264.0	17	NO
6	5557	7.7	324.0	17	Yes
7	5535	7.0	382.0	16	Yes
8	5546	8.6	335.0	17	Yes
9	5502	8.4	399.0	17	Yes
10	5551	7.9	468.0	17	Yes
11	5530	6.4	332.0	16	Yes
12	5493	10.0	494.0	18	Yes
13	5519	9.6	445.0	18	Yes
14	5567	6.1	310.0	16	NO
15	5527	7.5	383.0	17	NO
16	5493	6.3	343.0	16	Yes
17	5551	7.9	453.0	17	Yes
18	5542	9.3	245.0	18	Yes
19	5559	7.8	232.0	17	Yes
20	5543	8.2	364.0	17	Yes
21	5557	6.5	274.0	16	Yes
22	5524	9.2	427.0	18	Yes
23	5526	9.3	296.0	18	Yes
24	5563	8.5	312.0	17	NO
25	5561	8.6	246.0	17	Yes
26	5524	9.8	262.0	18	Yes
27	5565	9.2	307.0	18	Yes
28	5510	6.6	446.0	16	Yes
29	5501	8.2	229.0	17	Yes
30	5547	7.7	459.0	17	Yes
					Detection Rate: 86.7 %

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Type 4 Radar Statistical Performances					
Trial #	Test Frequency (MHz)	Pulse Width(us)	PRI(us)	Pulses per Burst	Detection
1	5530	14.5	344.0	13	Yes
2	5540	20.0	463.0	16	Yes
3	5560	13.0	420.0	13	Yes
4	5520	12.1	322.0	12	Yes
5	5500	17.0	264.0	15	Yes
6	5541	14.9	324.0	14	Yes
7	5519	13.4	382.0	13	Yes
8	5506	16.9	335.0	15	Yes
9	5562	16.4	399.0	14	Yes
10	5535	15.2	468.0	14	Yes
11	5546	11.9	332.0	12	Yes
12	5520	19.9	494.0	16	Yes
13	5531	19.2	445.0	16	Yes
14	5568	11.2	310.0	12	Yes
15	5500	14.3	383.0	13	Yes
16	5536	11.7	343.0	12	Yes
17	5561	15.2	453.0	14	Yes
18	5526	18.3	245.0	16	Yes
19	5555	15.1	232.0	14	Yes
20	5552	15.9	364.0	14	Yes
21	5509	12.2	274.0	12	Yes
22	5544	18.1	427.0	15	Yes
23	5512	18.3	296.0	16	Yes
24	5533	16.5	312.0	15	NO
25	5530	16.8	246.0	15	Yes
26	5519	19.4	262.0	16	Yes
27	5492	18.1	307.0	15	Yes
28	5547	12.3	446.0	12	Yes
29	5549	15.9	229.0	14	Yes
30	5520	14.9	459.0	14	NO
					Detection Rate: 93.33 %

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Type 5 Radar Statistical Performances				
Trial #	Minimum Chirp Width(MHz)	Chirp Center Frequency(MHz)	Test Signal Name	Detection
1	11	5530	LP_Signal_01	Yes
2	20	5530	LP_Signal_02	Yes
3	8	5530	LP_Signal_03	Yes
4	6	5530	LP_Signal_04	Yes
5	15	5530	LP_Signal_05	Yes
6	11	5530	LP_Signal_06	Yes
7	9	5530	LP_Signal_07	Yes
8	15	5530	LP_Signal_08	Yes
9	14	5530	LP_Signal_09	Yes
10	12	5530	LP_Signal_10	Yes
11	6	5493.4	LP_Signal_11	Yes
12	20	5499	LP_Signal_12	Yes
13	19	5498.6	LP_Signal_13	Yes
14	5	5493	LP_Signal_14	Yes
15	10	5495	LP_Signal_15	Yes
16	6	5493.4	LP_Signal_16	Yes
17	12	5495.8	LP_Signal_17	Yes
18	17	5497.8	LP_Signal_18	Yes
19	12	5495.8	LP_Signal_19	Yes
20	13	5496.2	LP_Signal_20	Yes
21	7	5566.2	LP_Signal_21	Yes
22	17	5562.2	LP_Signal_22	Yes
23	17	5562.2	LP_Signal_23	Yes
24	14	5563.4	LP_Signal_24	Yes
25	15	5563	LP_Signal_25	Yes
26	19	5561.4	LP_Signal_26	Yes
27	17	5562.2	LP_Signal_27	Yes
28	7	5566.2	LP_Signal_28	Yes
29	13	5563.8	LP_Signal_29	Yes
30	11	5564.6	LP_Signal_30	Yes

Detection Rate: 100 %

Note: Detail about the long pulse radar pattern shown in Appendix III.

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Type 6 Radar Statistical Performances					
Trial #	Pulses per Burst	Pulse Width(us)	PRI(us)	Hopping Frequency Sequence Name	Detection
1	9	1	333.3	HOP_FREQ_SEQ_01	Yes
2	9	1	333.3	HOP_FREQ_SEQ_02	Yes
3	9	1	333.3	HOP_FREQ_SEQ_03	Yes
4	9	1	333.3	HOP_FREQ_SEQ_04	Yes
5	9	1	333.3	HOP_FREQ_SEQ_05	Yes
6	9	1	333.3	HOP_FREQ_SEQ_06	Yes
7	9	1	333.3	HOP_FREQ_SEQ_07	Yes
8	9	1	333.3	HOP_FREQ_SEQ_08	Yes
9	9	1	333.3	HOP_FREQ_SEQ_09	Yes
10	9	1	333.3	HOP_FREQ_SEQ_10	Yes
11	9	1	333.3	HOP_FREQ_SEQ_11	Yes
12	9	1	333.3	HOP_FREQ_SEQ_12	Yes
13	9	1	333.3	HOP_FREQ_SEQ_13	Yes
14	9	1	333.3	HOP_FREQ_SEQ_14	Yes
15	9	1	333.3	HOP_FREQ_SEQ_15	Yes
16	9	1	333.3	HOP_FREQ_SEQ_16	Yes
17	9	1	333.3	HOP_FREQ_SEQ_17	Yes
18	9	1	333.3	HOP_FREQ_SEQ_18	Yes
19	9	1	333.3	HOP_FREQ_SEQ_19	Yes
20	9	1	333.3	HOP_FREQ_SEQ_20	Yes
21	9	1	333.3	HOP_FREQ_SEQ_21	Yes
22	9	1	333.3	HOP_FREQ_SEQ_22	Yes
23	9	1	333.3	HOP_FREQ_SEQ_23	Yes
24	9	1	333.3	HOP_FREQ_SEQ_24	Yes
25	9	1	333.3	HOP_FREQ_SEQ_25	Yes
26	9	1	333.3	HOP_FREQ_SEQ_26	Yes
27	9	1	333.3	HOP_FREQ_SEQ_27	Yes
28	9	1	333.3	HOP_FREQ_SEQ_28	Yes
29	9	1	333.3	HOP_FREQ_SEQ_29	Yes
30	9	1	333.3	HOP_FREQ_SEQ_30	Yes

Detection Rate: 100 %

Note: Detail about the hopping frequency sequence pattern shown in Appendix III.

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Appendix II. Radar Test Signal Patterns

The Long Pulse Radar Pattern

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_01						
Number of Bursts in Trial: 13						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	69.7	11	2	1170.0	1111.0	-
2	99.6	11	3	1514.0	1528.0	1910.0
3	61.2	11	1	1294.0	-	-
4	56.1	11	1	1154.0	-	-
5	83.2	11	2	1399.0	1791.0	-
6	71.9	11	2	1370.0	1880.0	-
7	63.2	11	1	1237.0	-	-
8	82.9	11	2	1260.0	1963.0	-
9	79.7	11	2	1332.0	1135.0	-
10	73.4	11	2	1915.0	1725.0	-
11	55.2	11	1	1589.0	-	-
12	99.3	11	3	1204.0	1600.0	1266.0
13	95.1	11	3	1405.0	1762.0	1020.0

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_02						
Number of Bursts in Trial: 20						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	51.2	20	1	1819.0	-	-
2	68.5	20	2	1969.0	1312.0	-
3	54.1	20	1	1568.0	-	-
4	73.6	20	2	1422.0	1358.0	-
5	90.4	20	3	1719.0	1002.0	1803.0
6	72.8	20	2	1481.0	1435.0	-
7	77.4	20	2	1005.0	1409.0	-
8	57.0	20	1	1112.0	-	-
9	89.2	20	3	1637.0	1273.0	1464.0
10	90.4	20	3	1097.0	1643.0	1947.0
11	80.7	20	2	1877.0	1834.0	-
12	82.1	20	2	1207.0	1411.0	-
13	96.7	20	3	1603.0	1659.0	1393.0
14	89.2	20	3	1461.0	1157.0	1708.0
15	57.5	20	1	1761.0	-	-
16	77.5	20	2	1344.0	1580.0	-
17	71.6	20	2	1844.0	1833.0	-
18	56.0	20	1	1369.0	-	-
19	58.3	20	1	1012.0	-	-
20	64.8	20	1	1414.0	-	-

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_03						
Number of Bursts in Trial: 10						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	77.4	8	2	1235.0	1459.0	-
2	68.3	8	2	1103.0	1853.0	-
3	64.6	8	1	1955.0	-	-
4	91.0	8	3	1161.0	1316.0	1730.0
5	75.7	8	2	1569.0	1804.0	-
6	56.1	8	1	1308.0	-	-
7	90.9	8	3	1119.0	1075.0	1944.0
8	68.7	8	2	1410.0	1821.0	-
9	80.8	8	2	1954.0	1579.0	-
10	62.0	8	1	1593.0	-	-

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_04						
Number of Bursts in Trial: 9						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	81.9	6	2	1595.0	1775.0	-
2	51.3	6	1	1430.0	-	-
3	79.3	6	2	1246.0	1318.0	-
4	76.8	6	2	1534.0	1795.0	-
5	76.1	6	2	1442.0	1095.0	-
6	81.1	6	2	1085.0	1482.0	-
7	87.8	6	3	1965.0	1418.0	1984.0
8	63.9	6	1	1356.0	-	-
9	72.6	6	2	1458.0	1695.0	-

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_05						
Number of Bursts in Trial: 16						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	81.1	15	2	1596.0	1918.0	-
2	54.8	15	1	1883.0	-	-
3	97.4	15	3	1355.0	1400.0	1888.0
4	80.5	15	2	1686.0	1402.0	-
5	59.2	15	1	1445.0	-	-
6	80.5	15	2	1739.0	1676.0	-
7	74.1	15	2	1550.0	1313.0	-
8	86.6	15	3	1837.0	1644.0	1117.0
9	82.8	15	2	1149.0	1331.0	-
10	55.6	15	1	1525.0	-	-
11	55.4	15	1	1917.0	-	-
12	58.1	15	1	2000.0	-	-
13	67.3	15	2	1196.0	1027.0	-
14	97.0	15	3	1138.0	1709.0	1476.0
15	84.5	15	3	1639.0	1365.0	1526.0
16	67.6	15	2	1406.0	1255.0	-

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_06						
Number of Bursts in Trial: 13						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	83.0	11	2	1379.0	1611.0	-
2	53.9	11	1	1916.0	-	-
3	63.1	11	1	1751.0	-	-
4	97.9	11	3	1714.0	1854.0	1375.0
5	84.3	11	3	1544.0	1815.0	1342.0
6	82.0	11	2	1309.0	1768.0	-
7	58.6	11	1	1547.0	-	-
8	76.2	11	2	1025.0	1900.0	-
9	77.2	11	2	1321.0	1554.0	-
10	58.4	11	1	1086.0	-	-
11	79.4	11	2	1278.0	1935.0	-
12	52.8	11	1	1031.0	-	-
13	69.8	11	2	1598.0	1722.0	-

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_07						
Number of Bursts in Trial: 11						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	63.1	9	1	1068.0	-	-
2	76.5	9	2	1745.0	1901.0	-
3	89.7	9	3	1177.0	1502.0	1878.0
4	57.6	9	1	1292.0	-	-
5	83.5	9	3	1737.0	1724.0	1424.0
6	77.2	9	2	1957.0	1174.0	-
7	59.9	9	1	1895.0	-	-
8	80.1	9	2	1297.0	1958.0	-
9	87.9	9	3	1234.0	1102.0	1082.0
10	55.3	9	1	1107.0	-	-
11	60.5	9	1	1720.0	-	-

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_08						
Number of Bursts in Trial: 16						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	51.6	15	1	1625.0	-	-
2	69.6	15	2	1162.0	1451.0	-
3	58.1	15	1	1994.0	-	-
4	63.1	15	1	1225.0	-	-
5	75.4	15	2	1573.0	1979.0	-
6	53.9	15	1	1272.0	-	-
7	64.6	15	1	1348.0	-	-
8	54.3	15	1	1013.0	-	-
9	94.8	15	3	1194.0	1683.0	1222.0
10	59.1	15	1	1295.0	-	-
11	93.1	15	3	1494.0	1293.0	1303.0
12	77.2	15	2	1574.0	1044.0	-
13	74.6	15	2	1376.0	1323.0	-
14	66.1	15	1	1428.0	-	-
15	88.4	15	3	1575.0	1931.0	1516.0
16	99.2	15	3	1868.0	1373.0	1981.0

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_09						
Number of Bursts in Trial: 15						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	96.3	14	3	1763.0	1277.0	1906.0
2	71.1	14	2	1721.0	1760.0	-
3	53.3	14	1	1705.0	-	-
4	50.8	14	1	1329.0	-	-
5	51.0	14	1	1982.0	-	-
6	71.2	14	2	1465.0	1436.0	-
7	66.7	14	2	1941.0	1863.0	-
8	69.7	14	2	1042.0	1057.0	-
9	79.1	14	2	1146.0	1581.0	-
10	65.7	14	1	1039.0	-	-
11	50.4	14	1	1381.0	-	-
12	83.8	14	3	1268.0	1871.0	1076.0
13	69.7	14	2	1035.0	1657.0	-
14	74.5	14	2	1320.0	1419.0	-
15	87.6	14	3	1499.0	1333.0	1851.0

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_10						
Number of Bursts in Trial: 14						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	95.2	12	3	1469.0	1472.0	1787.0
2	98.6	12	3	1470.0	1389.0	1584.0
3	52.5	12	1	1067.0	-	-
4	96.3	12	3	1341.0	1047.0	1999.0
5	64.6	12	1	1216.0	-	-
6	73.8	12	2	1968.0	1447.0	-
7	95.6	12	3	1727.0	1062.0	1457.0
8	50.8	12	1	1045.0	-	-
9	73.2	12	2	1953.0	1748.0	-
10	93.8	12	3	1661.0	1081.0	1939.0
11	75.0	12	2	1638.0	1912.0	-
12	58.0	12	1	1401.0	-	-
13	60.6	12	1	1132.0	-	-
14	70.0	12	2	1587.0	1128.0	-

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_11						
Number of Bursts in Trial: 9						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	99.4	6	3	1288.0	1407.0	1908.0
2	65.1	6	1	1475.0	-	-
3	91.6	6	3	1240.0	1253.0	1271.0
4	95.2	6	3	1655.0	1110.0	1590.0
5	78.0	6	2	1842.0	1560.0	-
6	63.7	6	1	1098.0	-	-
7	59.0	6	1	1772.0	-	-
8	84.5	6	3	1129.0	1518.0	1125.0
9	54.4	6	1	1713.0	-	-

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_12						
Number of Bursts in Trial: 20						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	59.5	20	1	1390.0	-	-
2	80.4	20	2	1938.0	1337.0	-
3	52.8	20	1	1634.0	-	-
4	88.5	20	3	1319.0	1033.0	1608.0
5	84.0	20	3	1181.0	1807.0	1961.0
6	59.7	20	1	1006.0	-	-
7	53.4	20	1	1224.0	-	-
8	80.8	20	2	1349.0	1769.0	-
9	84.7	20	3	1814.0	1673.0	1631.0
10	70.3	20	2	1256.0	1530.0	-
11	71.6	20	2	1612.0	1163.0	-
12	98.0	20	3	1368.0	1577.0	1874.0
13	78.6	20	2	1284.0	1857.0	-
14	72.0	20	2	1317.0	1571.0	-
15	69.8	20	2	1478.0	1524.0	-
16	73.7	20	2	1809.0	1206.0	-
17	75.4	20	2	1183.0	1004.0	-
18	50.6	20	1	1505.0	-	-
19	70.3	20	2	1812.0	1527.0	-
20	80.1	20	2	1564.0	1056.0	-

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_13						
Number of Bursts in Trial: 19						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	57.1	19	1	1197.0	-	-
2	76.0	19	2	1578.0	1220.0	-
3	63.2	19	1	1104.0	-	-
4	56.1	19	1	1872.0	-	-
5	99.7	19	3	1599.0	1474.0	1265.0
6	79.8	19	2	1506.0	1776.0	-
7	50.6	19	1	1357.0	-	-
8	58.9	19	1	1536.0	-	-
9	88.7	19	3	1437.0	1827.0	1962.0
10	91.8	19	3	1897.0	1467.0	1701.0
11	60.8	19	1	1252.0	-	-
12	78.6	19	2	1053.0	1781.0	-
13	60.6	19	1	1026.0	-	-
14	94.1	19	3	1930.0	1532.0	1801.0
15	93.1	19	3	1455.0	1490.0	1374.0
16	65.8	19	1	1817.0	-	-
17	61.8	19	1	1190.0	-	-
18	85.4	19	3	1826.0	1987.0	1171.0
19	61.5	19	1	1753.0	-	-

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_14						
Number of Bursts in Trial: 8						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	91.1	5	3	1731.0	1244.0	1509.0
2	69.8	5	2	1621.0	1591.0	-
3	62.9	5	1	1754.0	-	-
4	90.4	5	3	1936.0	1304.0	1774.0
5	87.7	5	3	1079.0	1656.0	1071.0
6	89.1	5	3	1211.0	1239.0	1831.0
7	72.1	5	2	1078.0	1106.0	-
8	70.7	5	2	1200.0	1627.0	-

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_15						
Number of Bursts in Trial: 12						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	93.1	10	3	1263.0	1023.0	1920.0
2	71.7	10	2	1549.0	1394.0	-
3	71.5	10	2	1160.0	1927.0	-
4	52.6	10	1	1049.0	-	-
5	63.0	10	1	1693.0	-	-
6	88.7	10	3	1907.0	1750.0	1548.0
7	54.4	10	1	1934.0	-	-
8	97.4	10	3	1924.0	1614.0	1630.0
9	83.6	10	3	1403.0	1674.0	1217.0
10	67.2	10	2	1836.0	1865.0	-
11	96.8	10	3	1824.0	1497.0	1330.0
12	88.8	10	3	1164.0	1286.0	1443.0

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_16						
Number of Bursts in Trial: 9						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	54.2	6	1	1989.0	-	-
2	59.1	6	1	1425.0	-	-
3	94.5	6	3	1541.0	1642.0	1832.0
4	92.1	6	3	1937.0	1223.0	1887.0
5	93.0	6	3	1488.0	1335.0	1479.0
6	59.5	6	1	1988.0	-	-
7	93.0	6	3	1928.0	1439.0	1016.0
8	87.3	6	3	1105.0	1645.0	1743.0
9	84.6	6	3	1744.0	1037.0	1231.0

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_17						
Number of Bursts in Trial: 14						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	79.0	12	2	1133.0	1867.0	-
2	54.0	12	1	1653.0	-	-
3	61.8	12	1	1800.0	-	-
4	90.1	12	3	1500.0	1597.0	1208.0
5	89.2	12	3	1741.0	1678.0	1108.0
6	79.2	12	2	1914.0	1749.0	-
7	60.3	12	1	1314.0	-	-
8	94.2	12	3	1210.0	1700.0	1250.0
9	85.6	12	3	1967.0	1046.0	1825.0
10	75.5	12	2	1828.0	1879.0	-
11	67.0	12	2	1441.0	1559.0	-
12	77.6	12	2	1793.0	1084.0	-
13	59.1	12	1	1421.0	-	-
14	57.6	12	1	1019.0	-	-

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_18						
Number of Bursts in Trial: 18						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	87.3	17	3	1636.0	1008.0	1654.0
2	67.2	17	2	1925.0	1870.0	-
3	89.2	17	3	1324.0	1794.0	1707.0
4	97.8	17	3	1811.0	1264.0	1572.0
5	89.9	17	3	1070.0	1755.0	1640.0
6	56.2	17	1	1517.0	-	-
7	96.7	17	3	1561.0	1757.0	1792.0
8	59.5	17	1	1346.0	-	-
9	98.7	17	3	1802.0	1473.0	1923.0
10	65.1	17	1	1423.0	-	-
11	96.6	17	3	1685.0	1001.0	1855.0
12	57.3	17	1	1126.0	-	-
13	82.0	17	2	1904.0	2000.0	-
14	75.3	17	2	1632.0	1065.0	-
15	70.9	17	2	1602.0	1665.0	-
16	97.5	17	3	1249.0	1493.0	1546.0
17	78.2	17	2	1799.0	1180.0	-
18	96.1	17	3	1892.0	1416.0	1520.0

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_19						
Number of Bursts in Trial: 13						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	84.8	12	3	1786.0	1780.0	1094.0
2	86.2	12	3	1202.0	1142.0	1038.0
3	64.0	12	1	1444.0	-	-
4	67.6	12	2	1285.0	1980.0	-
5	59.6	12	1	1710.0	-	-
6	62.5	12	1	1137.0	-	-
7	73.9	12	2	1477.0	1077.0	-
8	59.5	12	1	1886.0	-	-
9	94.1	12	3	1139.0	1823.0	1852.0
10	53.2	12	1	1427.0	-	-
11	98.0	12	3	1848.0	1167.0	1215.0
12	91.7	12	3	1660.0	1658.0	1846.0
13	79.7	12	2	1050.0	1148.0	-

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_20						
Number of Bursts in Trial: 15						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	61.2	13	1	1669.0	-	-
2	95.1	13	3	1691.0	1092.0	1063.0
3	51.5	13	1	1973.0	-	-
4	57.2	13	1	1350.0	-	-
5	74.9	13	2	1155.0	1017.0	-
6	53.8	13	1	1511.0	-	-
7	61.8	13	1	1501.0	-	-
8	53.1	13	1	1847.0	-	-
9	81.0	13	2	1059.0	1903.0	-
10	87.9	13	3	1453.0	1115.0	1552.0
11	69.4	13	2	1388.0	1089.0	-
12	55.4	13	1	1296.0	-	-
13	96.8	13	3	1992.0	1040.0	1946.0
14	93.5	13	3	1150.0	1187.0	1716.0
15	81.8	13	2	1136.0	1905.0	-

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_21						
Number of Bursts in Trial: 9						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	97.2	7	3	1551.0	1950.0	1613.0
2	85.1	7	3	1576.0	1858.0	1218.0
3	73.2	7	2	1032.0	1978.0	-
4	88.2	7	3	1269.0	1058.0	1236.0
5	97.4	7	3	1412.0	1635.0	1130.0
6	70.9	7	2	1485.0	1371.0	-
7	92.9	7	3	1790.0	1977.0	1193.0
8	73.0	7	2	1178.0	1971.0	-
9	93.6	7	3	1359.0	1315.0	1454.0

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_22						
Number of Bursts in Trial: 18						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	69.6	17	2	1565.0	1143.0	-
2	57.6	17	1	1491.0	-	-
3	76.6	17	2	1622.0	1391.0	-
4	73.8	17	2	1496.0	1096.0	-
5	80.4	17	2	1588.0	1205.0	-
6	62.2	17	1	1122.0	-	-
7	93.5	17	3	1362.0	1666.0	1983.0
8	61.5	17	1	1291.0	-	-
9	56.9	17	1	1364.0	-	-
10	85.4	17	3	1372.0	1254.0	1440.0
11	85.4	17	3	1093.0	1728.0	1434.0
12	62.2	17	1	1663.0	-	-
13	80.5	17	2	1168.0	1233.0	-
14	68.0	17	2	1732.0	1024.0	-
15	96.0	17	3	1773.0	1101.0	1641.0
16	93.7	17	3	1471.0	1361.0	1480.0
17	66.4	17	1	1166.0	-	-
18	93.0	17	3	1169.0	1738.0	1512.0

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_23						
Number of Bursts in Trial: 18						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	53.7	17	1	1299.0	-	-
2	98.3	17	3	1940.0	1261.0	1942.0
3	94.7	17	3	1134.0	1911.0	1860.0
4	62.2	17	1	1124.0	-	-
5	62.8	17	1	1340.0	-	-
6	69.1	17	2	1363.0	1153.0	-
7	92.1	17	3	1191.0	1433.0	1343.0
8	62.3	17	1	1173.0	-	-
9	59.0	17	1	1756.0	-	-
10	80.0	17	2	1287.0	1998.0	-
11	59.8	17	1	1382.0	-	-
12	94.4	17	3	1921.0	1345.0	1712.0
13	58.7	17	1	1043.0	-	-
14	68.4	17	2	1805.0	1687.0	-
15	72.1	17	2	1188.0	1605.0	-
16	58.0	17	1	1351.0	-	-
17	87.7	17	3	1543.0	1696.0	1118.0
18	67.2	17	2	1325.0	1258.0	-

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_24						
Number of Bursts in Trial: 15						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	77.3	14	2	1690.0	1116.0	-
2	88.0	14	3	1651.0	1647.0	1267.0
3	72.7	14	2	1088.0	1876.0	-
4	68.8	14	2	1305.0	1670.0	-
5	94.5	14	3	1718.0	1283.0	1529.0
6	57.8	14	1	1726.0	-	-
7	98.5	14	3	1652.0	1121.0	1960.0
8	61.4	14	1	1822.0	-	-
9	58.1	14	1	1489.0	-	-
10	69.6	14	2	1015.0	1276.0	-
11	66.7	14	2	1298.0	1956.0	-
12	67.0	14	2	1662.0	1083.0	-
13	77.3	14	2	1830.0	1209.0	-
14	94.5	14	3	1770.0	1127.0	1899.0
15	81.0	14	2	1890.0	1257.0	-

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_25						
Number of Bursts in Trial: 16						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	78.0	15	2	1521.0	1845.0	-
2	89.1	15	3	1566.0	1688.0	1592.0
3	74.7	15	2	1553.0	1413.0	-
4	98.9	15	3	1158.0	1539.0	1664.0
5	57.3	15	1	1383.0	-	-
6	94.9	15	3	1029.0	1420.0	1504.0
7	57.5	15	1	1582.0	-	-
8	81.8	15	2	1145.0	1816.0	-
9	68.0	15	2	1199.0	1557.0	-
10	53.1	15	1	1347.0	-	-
11	63.4	15	1	1813.0	-	-
12	51.7	15	1	1021.0	-	-
13	62.6	15	1	1353.0	-	-
14	76.7	15	2	1537.0	1384.0	-
15	67.0	15	2	1185.0	1041.0	-
16	90.1	15	3	1498.0	1213.0	1000.0

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_26						
Number of Bursts in Trial: 20						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	72.5	19	2	1862.0	1570.0	-
2	80.3	19	2	1736.0	1270.0	-
3	78.8	19	2	1919.0	1279.0	-
4	66.4	19	1	1646.0	-	-
5	78.5	19	2	1415.0	1679.0	-
6	70.2	19	2	1986.0	1856.0	-
7	84.9	19	3	1607.0	1864.0	1360.0
8	53.8	19	1	1156.0	-	-
9	86.8	19	3	1251.0	1449.0	1893.0
10	63.7	19	1	1463.0	-	-
11	51.4	19	1	1456.0	-	-
12	60.9	19	1	1859.0	-	-
13	72.5	19	2	1601.0	1993.0	-
14	95.6	19	3	1540.0	1051.0	1327.0
15	92.0	19	3	1184.0	1120.0	1398.0
16	52.7	19	1	1882.0	-	-
17	65.3	19	1	1492.0	-	-
18	63.4	19	1	1843.0	-	-
19	80.8	19	2	1618.0	1280.0	-
20	79.3	19	2	1789.0	1933.0	-

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Doc No: 17-EM-F0886 / 4.0



Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_27						
Number of Bursts in Trial: 18						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	97.5	17	3	1354.0	1404.0	1996.0
2	59.1	17	1	1052.0	-	-
3	80.4	17	2	1788.0	1889.0	-
4	72.4	17	2	1682.0	1322.0	-
5	69.7	17	2	1141.0	1189.0	-
6	56.1	17	1	1074.0	-	-
7	54.7	17	1	1426.0	-	-
8	65.7	17	1	1767.0	-	-
9	81.1	17	2	1201.0	1192.0	-
10	56.1	17	1	1326.0	-	-
11	85.9	17	3	1909.0	1624.0	1922.0
12	84.8	17	3	1131.0	1462.0	1289.0
13	91.2	17	3	1123.0	1779.0	1367.0
14	79.5	17	2	1535.0	1734.0	-
15	94.3	17	3	1648.0	1429.0	1619.0
16	86.8	17	3	1558.0	1090.0	1913.0
17	98.6	17	3	1733.0	1203.0	1798.0
18	78.1	17	2	1649.0	1230.0	-

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_28						
Number of Bursts in Trial: 9						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	52.4	7	1	1873.0	-	-
2	57.7	7	1	1759.0	-	-
3	54.1	7	1	1684.0	-	-
4	70.8	7	2	1352.0	1487.0	-
5	62.1	7	1	1018.0	-	-
6	93.7	7	3	1604.0	1884.0	1338.0
7	93.4	7	3	1262.0	1765.0	1997.0
8	96.6	7	3	1221.0	1594.0	1072.0
9	59.3	7	1	1943.0	-	-

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_29						
Number of Bursts in Trial: 15						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	72.4	13	2	1417.0	1113.0	-
2	61.2	13	1	1510.0	-	-
3	60.6	13	1	1620.0	-	-
4	86.5	13	3	1926.0	1328.0	1835.0
5	99.3	13	3	1891.0	1959.0	1159.0
6	95.9	13	3	1061.0	1849.0	1448.0
7	87.7	13	3	1281.0	1259.0	1495.0
8	92.7	13	3	1711.0	1290.0	1232.0
9	63.3	13	1	1697.0	-	-
10	100.0	13	3	1011.0	1764.0	1689.0
11	56.3	13	1	1241.0	-	-
12	96.7	13	3	1991.0	1275.0	1985.0
13	72.3	13	2	1810.0	1692.0	-
14	65.5	13	1	1109.0	-	-
15	69.2	13	2	1617.0	1545.0	-

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Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_30						
Number of Bursts in Trial: 13						
Burst	Pulse Width(us)	Chirp (MHz)	Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	72.8	11	2	1951.0	1975.0	-
2	80.6	11	2	1307.0	1677.0	-
3	77.9	11	2	1339.0	1586.0	-
4	66.7	11	2	1366.0	1515.0	-
5	69.7	11	2	1885.0	1176.0	-
6	93.0	11	3	1538.0	1212.0	1069.0
7	51.3	11	1	1010.0	-	-
8	55.1	11	1	1380.0	-	-
9	54.2	11	1	1387.0	-	-
10	87.2	11	3	1386.0	1198.0	1896.0
11	60.9	11	1	1066.0	-	-
12	73.0	11	2	1869.0	1702.0	-
13	75.1	11	2	1228.0	1972.0	-

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The Frequency Hopping Radar pattern

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_01									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5620	2	5562	3	5411	4	5355	5	5500
6	5476	7	5511	8	5285	9	5260	10	5385
11	5652	12	5568	13	5354	14	5362	15	5324
16	5315	17	5660	18	5673	19	5629	20	5545
21	5544	22	5520	23	5616	24	5466	25	5443
26	5395	27	5405	28	5613	29	5572	30	5346
31	5712	32	5621	33	5588	34	5281	35	5527
36	5627	37	5360	38	5526	39	5498	40	5274
41	5276	42	5693	43	5636	44	5528	45	5502
46	5600	47	5326	48	5656	49	5250	50	5524
51	5311	52	5537	53	5262	54	5447	55	5671
56	5292	57	5259	58	5452	59	5418	60	5623
61	5438	62	5639	63	5398	64	5378	65	5705
66	5323	67	5657	68	5422	69	5302	70	5481
71	5425	72	5702	73	5615	74	5552	75	5435
76	5640	77	5618	78	5530	79	5634	80	5263
81	5535	82	5301	83	5366	84	5427	85	5681
86	5318	87	5517	88	5393	89	5581	90	5670
91	5563	92	5304	93	5488	94	5645	95	5429
96	5290	97	5604	98	5591	99	5446	100	5431

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_02									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5400	2	5326	3	5347	4	5516	5	5720
6	5518	7	5533	8	5360	9	5423	10	5592
11	5583	12	5357	13	5395	14	5557	15	5345
16	5403	17	5312	18	5679	19	5674	20	5262
21	5552	22	5589	23	5458	24	5416	25	5661
26	5257	27	5341	28	5676	29	5380	30	5376
31	5607	32	5545	33	5496	34	5301	35	5447
36	5402	37	5617	38	5391	39	5427	40	5482
41	5590	42	5398	43	5574	44	5521	45	5525
46	5431	47	5580	48	5409	49	5303	50	5411
51	5662	52	5713	53	5313	54	5536	55	5494
56	5614	57	5406	58	5608	59	5442	60	5293
61	5563	62	5323	63	5537	64	5721	65	5603
66	5251	67	5420	68	5635	69	5497	70	5505
71	5687	72	5538	73	5330	74	5284	75	5616
76	5577	77	5499	78	5279	79	5309	80	5327
81	5292	82	5530	83	5490	84	5678	85	5610
86	5517	87	5710	88	5641	89	5387	90	5355
91	5261	92	5335	93	5532	94	5702	95	5511
96	5501	97	5415	98	5555	99	5351	100	5723

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_03									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5655	2	5565	3	5283	4	5677	5	5562
6	5657	7	5458	8	5435	9	5489	10	5421
11	5514	12	5621	13	5436	14	5277	15	5366
16	5491	17	5439	18	5307	19	5719	20	5454
21	5560	22	5280	23	5498	24	5547	25	5389
26	5549	27	5681	28	5544	29	5305	30	5414
31	5418	32	5496	33	5502	34	5614	35	5453
36	5645	37	5541	38	5708	39	5662	40	5580
41	5493	42	5429	43	5481	44	5512	45	5286
46	5522	47	5263	48	5492	49	5675	50	5356
51	5676	52	5441	53	5364	54	5625	55	5317
56	5558	57	5635	58	5360	59	5323	60	5261
61	5380	62	5422	63	5253	64	5268	65	5369
66	5446	67	5456	68	5467	69	5308	70	5381
71	5524	72	5333	73	5511	74	5592	75	5536
76	5371	77	5399	78	5452	79	5405	80	5338
81	5597	82	5553	83	5330	84	5420	85	5649
86	5604	87	5482	88	5396	89	5309	90	5509
91	5500	92	5538	93	5296	94	5250	95	5722
96	5556	97	5351	98	5709	99	5297	100	5293

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_04									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5338	2	5329	3	5694	4	5363	5	5307
6	5699	7	5480	8	5510	9	5652	10	5628
11	5348	12	5410	13	5477	14	5472	15	5387
16	5579	17	5469	18	5667	19	5646	20	5471
21	5349	22	5536	23	5539	24	5362	25	5340
26	5533	27	5272	28	5506	29	5448	30	5460
31	5385	32	5459	33	5354	34	5702	35	5465
36	5680	37	5421	38	5458	39	5355	40	5407
41	5365	42	5564	43	5353	44	5526	45	5519
46	5540	47	5575	48	5258	49	5409	50	5563
51	5317	52	5590	53	5415	54	5336	55	5615
56	5405	57	5314	58	5416	59	5555	60	5351
61	5551	62	5418	63	5688	64	5676	65	5373
66	5592	67	5269	68	5624	69	5395	70	5677
71	5659	72	5586	73	5453	74	5607	75	5433
76	5360	77	5568	78	5495	79	5422	80	5498
81	5386	82	5719	83	5594	84	5286	85	5713
86	5672	87	5525	88	5323	89	5491	90	5664
91	5674	92	5264	93	5282	94	5665	95	5544
96	5673	97	5653	98	5359	99	5611	100	5383

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_05									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5593	2	5568	3	5630	4	5524	5	5624
6	5266	7	5405	8	5585	9	5340	10	5360
11	5279	12	5674	13	5518	14	5667	15	5408
16	5570	17	5596	18	5513	19	5712	20	5363
21	5479	22	5515	23	5477	24	5628	25	5335
26	5703	27	5385	28	5475	29	5610	30	5482
31	5599	32	5371	33	5416	34	5569	35	5379
36	5663	37	5344	38	5512	39	5351	40	5508
41	5321	42	5679	43	5647	44	5291	45	5669
46	5613	47	5499	48	5423	49	5658	50	5694
51	5462	52	5353	53	5668	54	5466	55	5425
56	5341	57	5349	58	5439	59	5646	60	5606
61	5277	62	5700	63	5680	64	5583	65	5255
66	5605	67	5296	68	5538	69	5470	70	5573
71	5431	72	5509	73	5454	74	5389	75	5622
76	5436	77	5684	78	5544	79	5687	80	5542
81	5641	82	5367	83	5496	84	5428	85	5375
86	5450	87	5301	88	5720	89	5323	90	5430
91	5627	92	5391	93	5704	94	5314	95	5530
96	5286	97	5355	98	5550	99	5707	100	5438

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_06									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5373	2	5332	3	5566	4	5685	5	5369
6	5308	7	5427	8	5660	9	5503	10	5664
11	5463	12	5559	13	5290	14	5429	15	5658
16	5723	17	5616	18	5282	19	5652	20	5487
21	5584	22	5418	23	5620	24	5494	25	5334
26	5581	27	5714	28	5516	29	5641	30	5260
31	5309	32	5628	33	5483	34	5386	35	5603
36	5622	37	5661	38	5518	39	5352	40	5704
41	5434	42	5610	43	5428	44	5403	45	5266
46	5277	47	5715	48	5544	49	5467	50	5517
51	5514	52	5639	53	5671	54	5627	55	5600
56	5321	57	5571	58	5712	59	5273	60	5675
61	5437	62	5597	63	5484	64	5293	65	5522
66	5719	67	5346	68	5570	69	5694	70	5579
71	5536	72	5533	73	5520	74	5413	75	5656
76	5662	77	5348	78	5538	79	5631	80	5614
81	5364	82	5569	83	5440	84	5701	85	5272
86	5687	87	5486	88	5572	89	5365	90	5303
91	5556	92	5644	93	5320	94	5480	95	5298
96	5721	97	5448	98	5548	99	5450	100	5485

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_07									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5628	2	5571	3	5502	4	5371	5	5686
6	5447	7	5352	8	5260	9	5569	10	5396
11	5519	12	5349	13	5600	14	5485	15	5450
16	5271	17	5375	18	5622	19	5705	20	5369
21	5398	22	5275	23	5456	24	5709	25	5281
26	5382	27	5661	28	5309	29	5343	30	5550
31	5683	32	5721	33	5330	34	5427	35	5305
36	5303	37	5525	38	5694	39	5418	40	5436
41	5357	42	5435	43	5642	44	5674	45	5607
46	5383	47	5335	48	5471	49	5505	50	5323
51	5643	52	5568	53	5603	54	5462	55	5615
56	5340	57	5554	58	5511	59	5390	60	5366
61	5438	62	5620	63	5269	64	5423	65	5527
66	5494	67	5406	68	5551	69	5616	70	5373
71	5388	72	5662	73	5539	74	5399	75	5372
76	5625	77	5307	78	5355	79	5329	80	5648
81	5412	82	5681	83	5566	84	5257	85	5701
86	5589	87	5650	88	5678	89	5537	90	5319
91	5454	92	5304	93	5588	94	5659	95	5580
96	5301	97	5432	98	5617	99	5430	100	5288

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_08									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5408	2	5335	3	5438	4	5435	5	5431
6	5489	7	5374	8	5257	9	5603	10	5450
11	5613	12	5641	13	5680	14	5471	15	5359
16	5502	17	5250	18	5275	19	5561	20	5406
21	5441	22	5397	23	5701	24	5254	25	5270
26	5610	27	5512	28	5544	29	5584	30	5347
31	5287	32	5642	33	5554	34	5501	35	5664
36	5310	37	5689	38	5589	39	5635	40	5671
41	5518	42	5580	43	5439	44	5604	45	5363
46	5432	47	5296	48	5524	49	5295	50	5674
51	5344	52	5619	53	5692	54	5285	55	5462
56	5528	57	5508	58	5587	59	5495	60	5565
61	5576	62	5346	63	5473	64	5695	65	5517
66	5442	67	5286	68	5651	69	5460	70	5648
71	5542	72	5609	73	5375	74	5331	75	5497
76	5330	77	5498	78	5302	79	5661	80	5668
81	5370	82	5563	83	5452	84	5710	85	5298
86	5405	87	5702	88	5599	89	5278	90	5665
91	5712	92	5601	93	5429	94	5356	95	5513
96	5515	97	5409	98	5391	99	5468	100	5675

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_09									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5566	2	5574	3	5374	4	5596	5	5273
6	5531	7	5299	8	5410	9	5420	10	5432
11	5284	12	5402	13	5304	14	5400	15	5492
16	5350	17	5532	18	5353	19	5320	20	5278
21	5414	22	5510	23	5338	24	5315	25	5702
26	5536	27	5462	28	5715	29	5648	30	5618
31	5389	32	5499	33	5719	34	5382	35	5706
36	5321	37	5401	38	5582	39	5267	40	5646
41	5607	42	5601	43	5518	44	5593	45	5343
46	5515	47	5354	48	5577	49	5657	50	5550
51	5520	52	5670	53	5403	54	5486	55	5406
56	5716	57	5416	58	5487	59	5624	60	5293
61	5505	62	5647	63	5419	64	5466	65	5381
66	5303	67	5454	68	5629	69	5634	70	5642
71	5458	72	5351	73	5290	74	5450	75	5544
76	5291	77	5457	78	5296	79	5449	80	5534
81	5650	82	5560	83	5507	84	5370	85	5673
86	5490	87	5324	88	5475	89	5322	90	5443
91	5671	92	5649	93	5344	94	5710	95	5446
96	5411	97	5497	98	5413	99	5494	100	5666

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_10									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5346	2	5338	3	5310	4	5282	5	5493
6	5573	7	5321	8	5485	9	5583	10	5639
11	5690	12	5666	13	5345	14	5595	15	5513
16	5438	17	5659	18	5456	19	5365	20	5470
21	5325	22	5676	23	5279	24	5307	25	5675
26	5424	27	5314	28	5443	29	5277	30	5652
31	5431	32	5597	33	5480	34	5519	35	5370
36	5589	37	5378	38	5517	39	5560	40	5446
41	5306	42	5347	43	5695	44	5425	45	5323
46	5598	47	5412	48	5630	49	5447	50	5329
51	5696	52	5721	53	5492	54	5309	55	5253
56	5429	57	5416	58	5606	59	5700	60	5458
61	5278	62	5552	63	5337	64	5570	65	5719
66	5415	67	5417	68	5328	69	5670	70	5257
71	5701	72	5620	73	5645	74	5327	75	5724
76	5687	77	5272	78	5709	79	5406	80	5705
81	5698	82	5713	83	5557	84	5367	85	5507
86	5258	87	5682	88	5375	89	5723	90	5617
91	5608	92	5677	93	5683	94	5604	95	5344
96	5463	97	5466	98	5481	99	5311	100	5270

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_11									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5601	2	5577	3	5721	4	5443	5	5335
6	5712	7	5560	8	5271	9	5371	10	5621
11	5455	12	5386	13	5693	14	5534	15	5526
16	5311	17	5559	18	5313	19	5662	20	5333
21	5270	22	5317	23	5396	24	5648	25	5690
26	5263	27	5549	28	5381	29	5686	30	5473
31	5374	32	5633	33	5715	34	5632	35	5339
36	5509	37	5680	38	5649	39	5670	40	5474
41	5285	42	5389	43	5394	44	5587	45	5692
46	5354	47	5681	48	5470	49	5683	50	5334
51	5397	52	5297	53	5581	54	5607	55	5672
56	5520	57	5370	58	5699	59	5519	60	5429
61	5407	62	5623	63	5497	64	5644	65	5408
66	5542	67	5364	68	5453	69	5635	70	5465
71	5438	72	5298	73	5703	74	5631	75	5303
76	5307	77	5258	78	5253	79	5486	80	5419
81	5290	82	5398	83	5554	84	5562	85	5410
86	5626	87	5696	88	5302	89	5678	90	5329
91	5496	92	5340	93	5305	94	5620	95	5356
96	5480	97	5521	98	5684	99	5724	100	5700

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_12									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5381	2	5341	3	5657	4	5604	5	5555
6	5279	7	5268	8	5635	9	5337	10	5578
11	5455	12	5427	13	5413	14	5614	15	5438
16	5565	17	5358	18	5379	19	5436	20	5258
21	5388	22	5621	23	5590	24	5277	25	5582
26	5623	27	5612	28	5263	29	5406	30	5537
31	5648	32	5296	33	5542	34	5348	35	5485
36	5599	37	5472	38	5710	39	5255	40	5689
41	5283	42	5661	43	5289	44	5431	45	5639
46	5556	47	5573	48	5670	49	5430	50	5519
51	5708	52	5324	53	5414	54	5716	55	5400
56	5439	57	5313	58	5442	59	5476	60	5697
61	5354	62	5392	63	5370	64	5260	65	5467
66	5273	67	5383	68	5642	69	5654	70	5335
71	5401	72	5331	73	5529	74	5267	75	5454
76	5461	77	5468	78	5659	79	5494	80	5546
81	5380	82	5269	83	5538	84	5463	85	5311
86	5271	87	5465	88	5594	89	5576	90	5606
91	5328	92	5407	93	5386	94	5301	95	5504
96	5253	97	5724	98	5397	99	5459	100	5715

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_13									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5539	2	5580	3	5593	4	5290	5	5397
6	5321	7	5668	8	5710	9	5500	10	5407
11	5386	12	5605	13	5468	14	5608	15	5576
16	5565	17	5403	18	5571	19	5252	20	5505
21	5674	22	5477	23	5594	24	5369	25	5480
26	5686	27	5657	28	5654	29	5724	30	5547
31	5670	32	5558	33	5357	34	5690	35	5387
36	5338	37	5598	38	5399	39	5535	40	5652
41	5648	42	5495	43	5590	44	5641	45	5372
46	5489	47	5692	48	5486	49	5432	50	5274
51	5381	52	5631	53	5463	54	5421	55	5278
56	5604	57	5568	58	5478	59	5484	60	5308
61	5620	62	5300	63	5566	64	5262	65	5428
66	5677	67	5627	68	5519	69	5675	70	5373
71	5707	72	5633	73	5601	74	5623	75	5358
76	5447	77	5312	78	5515	79	5639	80	5523
81	5618	82	5524	83	5451	84	5574	85	5313
86	5719	87	5511	88	5334	89	5517	90	5628
91	5317	92	5591	93	5611	94	5534	95	5530
96	5585	97	5431	98	5481	99	5513	100	5499

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_14									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5319	2	5344	3	5529	4	5451	5	5617
6	5363	7	5690	8	5310	9	5663	10	5614
11	5317	12	5394	13	5509	14	5328	15	5597
16	5693	17	5595	18	5296	19	5448	20	5385
21	5260	22	5671	23	5712	24	5469	25	5567
26	5257	27	5391	28	5683	29	5315	30	5691
31	5696	32	5613	33	5504	34	5410	35	5332
36	5652	37	5354	38	5478	39	5609	40	5276
41	5313	42	5374	43	5586	44	5519	45	5621
46	5455	47	5547	48	5270	49	5686	50	5450
51	5470	52	5454	53	5707	54	5720	55	5697
56	5643	57	5429	58	5446	59	5343	60	5292
61	5367	62	5412	63	5422	64	5322	65	5708
66	5661	67	5376	68	5556	69	5560	70	5592
71	5590	72	5293	73	5670	74	5401	75	5307
76	5587	77	5294	78	5724	79	5682	80	5306
81	5379	82	5288	83	5668	84	5318	85	5323
86	5625	87	5510	88	5628	89	5589	90	5611
91	5475	92	5467	93	5534	94	5425	95	5576
96	5250	97	5397	98	5549	99	5601	100	5477

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_15									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5574	2	5583	3	5465	4	5515	5	5459
6	5502	7	5712	8	5385	9	5351	10	5346
11	5626	12	5658	13	5550	14	5523	15	5618
16	5306	17	5722	18	5399	19	5396	20	5577
21	5268	22	5265	23	5653	24	5558	25	5540
26	5620	27	5718	28	5411	29	5419	30	5250
31	5360	32	5461	33	5528	34	5484	35	5375
36	5493	37	5666	38	5405	39	5429	40	5324
41	5688	42	5343	43	5524	44	5500	45	5302
46	5601	47	5538	48	5508	49	5323	50	5638
51	5562	52	5501	53	5559	54	5277	55	5254
56	5322	57	5661	58	5509	59	5551	60	5691
61	5333	62	5374	63	5544	64	5272	65	5289
66	5635	67	5403	68	5719	69	5314	70	5600
71	5305	72	5269	73	5476	74	5585	75	5519
76	5464	77	5598	78	5258	79	5274	80	5447
81	5287	82	5657	83	5445	84	5489	85	5594
86	5566	87	5267	88	5498	89	5344	90	5339
91	5441	92	5376	93	5483	94	5329	95	5295
96	5695	97	5645	98	5644	99	5595	100	5373

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_16									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5354	2	5347	3	5401	4	5676	5	5679
6	5544	7	5637	8	5460	9	5417	10	5650
11	5557	12	5447	13	5591	14	5621	15	5639
16	5394	17	5374	18	5502	19	5441	20	5294
21	5654	22	5431	23	5594	24	5550	25	5513
26	5411	27	5667	28	5517	29	5620	30	5284
31	5402	32	5488	33	5418	34	5268	35	5258
36	5670	37	5535	38	5282	39	5298	40	5713
41	5527	42	5426	43	5462	44	5643	45	5299
46	5280	47	5581	48	5566	49	5376	50	5428
51	5438	52	5327	53	5552	54	5648	55	5575
56	5576	57	5510	58	5615	59	5699	60	5370
61	5662	62	5480	63	5498	64	5416	65	5710
66	5316	67	5584	68	5439	69	5551	70	5306
71	5474	72	5255	73	5479	74	5254	75	5561
76	5478	77	5433	78	5718	79	5304	80	5300
81	5538	82	5335	83	5442	84	5684	85	5505
86	5705	87	5593	88	5687	89	5293	90	5689
91	5574	92	5432	93	5596	94	5652	95	5329
96	5579	97	5271	98	5328	99	5265	100	5346

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_17									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5609	2	5683	3	5337	4	5362	5	5521
6	5586	7	5659	8	5535	9	5580	10	5382
11	5488	12	5333	13	5254	14	5341	15	5660
16	5385	17	5501	18	5508	19	5486	20	5662
21	5500	22	5632	23	5639	24	5299	25	5519
26	5720	27	5724	28	5318	29	5444	30	5377
31	5375	32	5483	33	5410	34	5393	35	5674
36	5373	37	5569	38	5357	39	5627	40	5366
41	5606	42	5400	43	5408	44	5296	45	5684
46	5464	47	5704	48	5624	49	5429	50	5315
51	5314	52	5503	53	5603	54	5359	55	5301
56	5520	57	5698	58	5472	59	5414	60	5664
61	5536	62	5512	63	5663	64	5361	65	5496
66	5656	67	5517	68	5533	69	5378	70	5286
71	5379	72	5584	73	5546	74	5716	75	5482
76	5481	77	5537	78	5437	79	5305	80	5266
81	5447	82	5711	83	5476	84	5694	85	5702
86	5398	87	5342	88	5497	89	5347	90	5290
91	5310	92	5652	93	5344	94	5462	95	5394
96	5338	97	5438	98	5630	99	5279	100	5644

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_18									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5292	2	5447	3	5273	4	5523	5	5266
6	5628	7	5584	8	5610	9	5268	10	5589
11	5322	12	5597	13	5295	14	5536	15	5681
16	5473	17	5611	18	5434	19	5678	20	5670
21	5666	22	5573	23	5631	24	5459	25	5565
26	5468	27	5448	28	5353	29	5352	30	5583
31	5363	32	5332	33	5698	34	5659	35	5688
36	5338	37	5464	38	5365	39	5510	40	5638
41	5302	42	5689	43	5648	44	5293	45	5516
46	5444	47	5312	48	5585	49	5385	50	5580
51	5568	52	5679	53	5654	54	5599	55	5367
56	5314	57	5426	58	5507	59	5483	60	5641
61	5306	62	5515	63	5419	64	5699	65	5340
66	5482	67	5414	68	5593	69	5271	70	5387
71	5715	72	5324	73	5582	74	5330	75	5416
76	5396	77	5274	78	5386	79	5493	80	5692
81	5253	82	5520	83	5475	84	5391	85	5461
86	5339	87	5696	88	5400	89	5664	90	5502
91	5298	92	5710	93	5592	94	5503	95	5567
96	5319	97	5450	98	5318	99	5334	100	5644

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_19									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5547	2	5686	3	5684	4	5583	5	5292
6	5606	7	5685	8	5431	9	5418	10	5253
11	5386	12	5336	13	5256	14	5702	15	5561
16	5658	17	5714	18	5479	19	5395	20	5581
21	5357	22	5514	23	5720	24	5432	25	5453
26	5320	27	5651	28	5457	29	5625	30	5252
31	5289	32	5341	33	5411	34	5477	35	5555
36	5258	37	5663	38	5552	39	5616	40	5297
41	5654	42	5413	43	5290	44	5445	45	5424
46	5643	47	5438	48	5467	49	5444	50	5380
51	5705	52	5537	53	5422	54	5311	55	5502
56	5697	57	5680	58	5478	59	5295	60	5518
61	5251	62	5645	63	5541	64	5450	65	5328
66	5665	67	5312	68	5310	69	5585	70	5392
71	5355	72	5621	73	5506	74	5636	75	5673
76	5505	77	5533	78	5458	79	5416	80	5400
81	5603	82	5313	83	5597	84	5485	85	5349
86	5483	87	5412	88	5668	89	5601	90	5676
91	5559	92	5335	93	5389	94	5628	95	5440
96	5574	97	5562	98	5360	99	5372	100	5423

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_20									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5327	2	5450	3	5620	4	5370	5	5328
6	5334	7	5531	8	5285	9	5497	10	5625
11	5562	12	5650	13	5377	14	5451	15	5723
16	5649	17	5310	18	5342	19	5524	20	5587
21	5589	22	5426	23	5552	24	5405	25	5719
26	5647	27	5379	28	5561	29	5420	30	5667
31	5616	32	5721	33	5556	34	5585	35	5706
36	5519	37	5268	38	5529	39	5438	40	5466
41	5455	42	5477	43	5592	44	5384	45	5277
46	5404	47	5478	48	5701	49	5491	50	5257
51	5320	52	5281	53	5626	54	5720	55	5633
56	5690	57	5412	58	5499	59	5449	60	5424
61	5683	62	5293	63	5276	64	5546	65	5591
66	5364	67	5380	68	5389	69	5635	70	5433
71	5468	72	5481	73	5296	74	5685	75	5503
76	5368	77	5314	78	5590	79	5682	80	5654
81	5660	82	5643	83	5512	84	5622	85	5684
86	5333	87	5611	88	5303	89	5445	90	5353
91	5256	92	5610	93	5358	94	5553	95	5538
96	5461	97	5571	98	5352	99	5444	100	5709

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_21									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5582	2	5689	3	5556	4	5531	5	5645
6	5376	7	5553	8	5360	9	5660	10	5357
11	5493	12	5439	13	5418	14	5549	15	5269
16	5262	17	5437	18	5445	19	5569	20	5401
21	5597	22	5592	23	5326	24	5378	25	5607
26	5596	27	5485	28	5287	29	5454	30	5331
31	5602	32	5678	33	5296	34	5526	35	5658
36	5359	37	5325	38	5591	39	5477	40	5294
41	5560	42	5530	43	5321	44	5381	45	5681
46	5384	47	5561	48	5662	49	5544	50	5619
51	5671	52	5257	53	5332	54	5715	55	5446
56	5577	57	5403	58	5288	59	5318	60	5323
61	5373	62	5713	63	5583	64	5469	65	5634
66	5565	67	5329	68	5425	69	5370	70	5703
71	5649	72	5282	73	5688	74	5255	75	5344
76	5273	77	5462	78	5271	79	5350	80	5278
81	5293	82	5311	83	5272	84	5330	85	5428
86	5336	87	5409	88	5354	89	5407	90	5430
91	5523	92	5559	93	5572	94	5343	95	5680
96	5466	97	5499	98	5693	99	5333	100	5504

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Doc No: 17-EM-F0886 / 4.0



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_22									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5265	2	5453	3	5492	4	5692	5	5390
6	5515	7	5478	8	5338	9	5348	10	5661
11	5424	12	5325	13	5459	14	5269	15	5290
16	5253	17	5564	18	5451	19	5517	20	5593
21	5508	22	5434	23	5415	24	5351	25	5398
26	5448	27	5688	28	5391	29	5488	30	5373
31	5491	32	5635	33	5511	34	5724	35	5322
36	5450	37	5596	38	5705	39	5643	40	5468
41	5561	42	5378	43	5610	44	5364	45	5644
46	5720	47	5597	48	5409	49	5433	50	5383
51	5426	52	5591	53	5717	54	5317	55	5294
56	5585	57	5538	58	5658	59	5295	60	5580
61	5388	62	5278	63	5677	64	5498	65	5452
66	5625	67	5365	68	5313	69	5579	70	5320
71	5431	72	5396	73	5713	74	5689	75	5291
76	5549	77	5475	78	5432	79	5623	80	5681
81	5701	82	5299	83	5601	84	5308	85	5655
86	5628	87	5565	88	5509	89	5603	90	5483
91	5554	92	5706	93	5408	94	5303	95	5667
96	5521	97	5357	98	5611	99	5568	100	5694

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_23									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5520	2	5692	3	5428	4	5281	5	5707
6	5557	7	5500	8	5413	9	5511	10	5393
11	5258	12	5589	13	5464	14	5311	15	5341
16	5691	17	5554	18	5562	19	5310	20	5516
21	5352	22	5472	23	5407	24	5324	25	5286
26	5397	27	5416	28	5495	29	5522	30	5415
31	5380	32	5592	33	5629	34	5663	35	5544
36	5364	37	5541	38	5489	39	5519	40	5305
41	5251	42	5406	43	5704	44	5375	45	5442
46	5344	47	5252	48	5303	49	5650	50	5296
51	5326	52	5609	53	5434	54	5515	55	5567
56	5368	57	5304	58	5671	59	5507	60	5334
61	5265	62	5714	63	5703	64	5603	65	5596
66	5526	67	5702	68	5400	69	5412	70	5390
71	5255	72	5319	73	5351	74	5316	75	5569
76	5414	77	5539	78	5694	79	5466	80	5401
81	5330	82	5542	83	5343	84	5584	85	5543
86	5359	87	5318	88	5529	89	5448	90	5378
91	5571	92	5485	93	5283	94	5604	95	5365
96	5501	97	5665	98	5454	99	5645	100	5451

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_24									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5300	2	5456	3	5461	4	5442	5	5452
6	5599	7	5425	8	5488	9	5577	10	5600
11	5664	12	5378	13	5541	14	5659	15	5332
16	5429	17	5721	18	5657	19	5607	20	5502
21	5524	22	5421	23	5413	24	5496	25	5297
26	5649	27	5724	28	5619	29	5556	30	5457
31	5366	32	5549	33	5369	34	5437	35	5267
36	5503	37	5632	38	5285	39	5672	40	5316
41	5383	42	5431	43	5344	44	5469	45	5372
46	5371	47	5702	48	5335	49	5264	50	5606
51	5561	52	5677	53	5310	54	5485	55	5604
56	5390	57	5690	58	5395	59	5625	60	5697
61	5628	62	5711	63	5368	64	5393	65	5645
66	5651	67	5519	68	5472	69	5315	70	5436
71	5719	72	5660	73	5533	74	5391	75	5337
76	5319	77	5277	78	5650	79	5528	80	5272
81	5534	82	5682	83	5675	84	5718	85	5511
86	5586	87	5706	88	5558	89	5699	90	5538
91	5487	92	5482	93	5322	94	5494	95	5313
96	5676	97	5646	98	5543	99	5480	100	5367

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_25									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5555	2	5695	3	5397	4	5603	5	5672
6	5641	7	5447	8	5563	9	5265	10	5429
11	5595	12	5642	13	5679	14	5379	15	5353
16	5517	17	5373	18	5285	19	5652	20	5694
21	5435	22	5587	23	5354	24	5488	25	5270
26	5440	27	5576	28	5347	29	5325	30	5590
31	5596	32	5255	33	5506	34	5584	35	5589
36	5562	37	5723	38	5556	39	5350	40	5705
41	5697	42	5514	43	5282	44	5709	45	5466
46	5678	47	5682	48	5418	49	5322	50	5659
51	5448	52	5456	53	5486	54	5439	55	5693
56	5591	57	5634	58	5583	59	5579	60	5315
61	5585	62	5497	63	5558	64	5483	65	5345
66	5515	67	5613	68	5600	69	5375	70	5454
71	5552	72	5336	73	5560	74	5323	75	5419
76	5601	77	5626	78	5487	79	5716	80	5654
81	5253	82	5656	83	5398	84	5524	85	5367
86	5395	87	5621	88	5696	89	5258	90	5324
91	5605	92	5362	93	5364	94	5449	95	5369
96	5708	97	5680	98	5627	99	5631	100	5719

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_26									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5713	2	5459	3	5333	4	5289	5	5514
6	5305	7	5372	8	5638	9	5428	10	5636
11	5429	12	5431	13	5720	14	5477	15	5374
16	5508	17	5500	18	5388	19	5600	20	5411
21	5443	22	5656	23	5295	24	5577	25	5718
26	5328	27	5525	28	5453	29	5624	30	5619
31	5463	32	5324	33	5363	34	5285	35	5306
36	5436	37	5449	38	5536	39	5597	40	5695
41	5474	42	5607	43	5662	44	5501	45	5380
46	5712	47	5332	48	5565	49	5490	50	5404
51	5414	52	5481	53	5296	54	5533	55	5505
56	5644	57	5556	58	5626	59	5723	60	5535
61	5315	62	5268	63	5461	64	5339	65	5549
66	5286	67	5347	68	5517	69	5632	70	5406
71	5422	72	5353	73	5602	74	5446	75	5588
76	5677	77	5396	78	5637	79	5650	80	5634
81	5623	82	5559	83	5693	84	5550	85	5390
86	5641	87	5345	88	5700	89	5327	90	5318
91	5697	92	5664	93	5398	94	5686	95	5451
96	5509	97	5648	98	5299	99	5395	100	5680

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_27									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5493	2	5698	3	5269	4	5450	5	5259
6	5347	7	5394	8	5713	9	5591	10	5368
11	5360	12	5317	13	5286	14	5672	15	5395
16	5596	17	5627	18	5645	19	5603	20	5451
21	5333	22	5569	23	5691	24	5594	25	5377
26	5656	27	5533	28	5658	29	5680	30	5605
31	5420	32	5442	33	5515	34	5580	35	5348
36	5527	37	5720	38	5278	39	5630	40	5472
41	5302	42	5536	43	5617	44	5460	45	5642
46	5584	47	5341	48	5290	49	5600	50	5683
51	5266	52	5541	53	5712	54	5425	55	5484
56	5487	57	5695	58	5463	59	5280	60	5413
61	5480	62	5622	63	5407	64	5637	65	5498
66	5350	67	5496	68	5320	69	5326	70	5392
71	5522	72	5677	73	5578	74	5405	75	5557
76	5322	77	5618	78	5427	79	5647	80	5404
81	5626	82	5369	83	5593	84	5270	85	5293
86	5308	87	5417	88	5670	89	5272	90	5470
91	5387	92	5563	93	5692	94	5485	95	5294
96	5665	97	5354	98	5316	99	5562	100	5351

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_28									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5273	2	5462	3	5680	4	5611	5	5576
6	5389	7	5319	8	5313	9	5279	10	5575
11	5669	12	5581	13	5327	14	5392	15	5416
16	5684	17	5497	18	5690	19	5320	20	5362
21	5274	22	5658	23	5664	24	5482	25	5326
26	5384	27	5637	28	5692	29	5344	30	5494
31	5377	32	5657	33	5289	34	5400	35	5487
36	5618	37	5516	38	5431	39	5544	40	5311
41	5385	42	5474	43	5382	44	5457	45	5368
46	5622	47	5399	48	5343	49	5390	50	5559
51	5442	52	5592	53	5582	54	5535	55	5272
56	5672	57	5441	58	5410	59	5282	60	5498
61	5312	62	5578	63	5522	64	5551	65	5395
66	5450	67	5363	68	5447	69	5386	70	5328
71	5509	72	5598	73	5398	74	5378	75	5525
76	5526	77	5554	78	5364	79	5429	80	5585
81	5599	82	5679	83	5660	84	5315	85	5432
86	5590	87	5465	88	5293	89	5422	90	5609
91	5635	92	5323	93	5718	94	5682	95	5253
96	5698	97	5519	98	5651	99	5677	100	5409

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_29									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5528	2	5701	3	5616	4	5297	5	5321
6	5431	7	5341	8	5388	9	5345	10	5404
11	5600	12	5370	13	5368	14	5587	15	5437
16	5309	17	5638	18	5609	19	5582	20	5690
21	5650	22	5637	23	5273	24	5653	25	5363
26	5251	27	5386	28	5480	29	5334	30	5397
31	5441	32	5598	33	5626	34	5709	35	5312
36	5681	37	5458	38	5625	39	5468	40	5412
41	5622	42	5454	43	5602	44	5372	45	5457
46	5396	47	5277	48	5338	49	5618	50	5643
51	5671	52	5261	53	5691	54	5385	55	5298
56	5479	57	5268	58	5467	59	5383	60	5318
61	5661	62	5422	63	5538	64	5304	65	5401
66	5567	67	5364	68	5375	69	5530	70	5323
71	5398	72	5562	73	5631	74	5580	75	5456
76	5392	77	5592	78	5660	79	5264	80	5331
81	5704	82	5503	83	5394	84	5405	85	5418
86	5326	87	5436	88	5311	89	5464	90	5381
91	5564	92	5423	93	5557	94	5663	95	5677
96	5322	97	5452	98	5466	99	5586	100	5634

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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_30									
SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)	SEQ#	Freq. (MHz)
1	5308	2	5465	3	5552	4	5361	5	5638
6	5570	7	5266	8	5463	9	5508	10	5611
11	5531	12	5634	13	5409	14	5307	15	5458
16	5288	17	5436	18	5703	19	5683	20	5326
21	5378	22	5273	23	5253	24	5264	25	5610
26	5636	27	5505	28	5315	29	5467	30	5285
31	5428	32	5369	33	5291	34	5612	35	5690
36	5418	37	5668	38	5325	39	5680	40	5359
41	5372	42	5464	43	5551	44	5350	45	5387
46	5548	47	5604	48	5485	49	5455	50	5449
51	5542	52	5689	53	5319	54	5694	55	5382
56	5559	57	5538	58	5573	59	5252	60	5298
61	5343	62	5433	63	5412	64	5619	65	5342
66	5345	67	5370	68	5671	69	5679	70	5639
71	5447	72	5628	73	5602	74	5282	75	5270
76	5682	77	5299	78	5561	79	5405	80	5697
81	5643	82	5655	83	5584	84	5380	85	5574
86	5678	87	5391	88	5421	89	5468	90	5328
91	5642	92	5700	93	5583	94	5332	95	5490
96	5318	97	5420	98	5338	99	5519	100	5365

END OF REPORT

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