



FCC TEST REPORT

For

Shenzhen SEI Robotics Co., Ltd.

GPON Router

Test Model: SG1696D2VR (SG401C)

Additional Model No.: SG401CX (X:A-Z)

Prepared for : Shenzhen SEI Robotics Co., Ltd.
Address : 12F, Kangtai Innovation Plaza Building A, No. 222 Kefa Road, Yue Hai
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Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : September 25, 2024
Number of tested samples : 2
Sample No. : A240920080-1, A240920080-2
Serial number : Prototype
Date of Test : September 25, 2024 ~ January 22, 2025
Date of Report : January 23, 2025



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**FCC TEST REPORT**
FCC CFR 47 PART 15 E (15.407)**Report Reference No.** : **LCSA09244061ED****Date of Issue**..... : January 23, 2025**Testing Laboratory Name** : **Shenzhen LCS Compliance Testing Laboratory Ltd.****Address**..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,
Shajing Street, Baoan District, Shenzhen, 518000, ChinaFull application of Harmonised standards ☒**Testing Location/ Procedure**..... : Partial application of Harmonised standards ☐Other standard testing method ☐**Applicant's Name**..... : **Shenzhen SEI Robotics Co., Ltd.****Address**..... : 12F, Kangtai Innovation Plaza Building A, No. 222 Kefa Road, Yue
Hai Sub-district, Nanshan District, Shenzhen, China 518054**Test Specification****Standard** : FCC CFR 47 PART 15E (15.407)**Test Report Form No.**..... : TRF-4-E-150 A/0**TRF Originator** : Shenzhen LCS Compliance Testing Laboratory Ltd.**Master TRF**..... : Dated 2011-03**Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved.**

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EUT Description..... : **GPON Router****Trade Mark**..... : N/A**Test Model** : SG1696D2VR (SG401C)**Ratings**..... : Input: 12.0V $\overline{\text{---}}$ 1.5A

For AC Adapter Input: 100-240V~, 50/60Hz, 0.5A

Adapter Output: 12.0V $\overline{\text{---}}$ 1.5A, 18.0W**Result** : **Positive****Compiled by:***Nadia Zhou***Supervised by:***Cary Luo***Approved by:***Gavin Liang*

Nadia Zhou/ Administrator

Cary Luo/ Technique principal

Gavin Liang/ Manager



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**FCC -- TEST REPORT**

Test Report No. :	LCSA09244061ED	<u>January 23, 2025</u> Date of issue
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EUT.....	: GPON Router
Test Model.....	: SG1696D2VR (SG401C)
Applicant.....	: Shenzhen SEI Robotics Co., Ltd.
Address.....	: 12F, Kangtai Innovation Plaza Building A, No. 222 Kefa Road, Yue Hai Sub-district, Nanshan District, Shenzhen, China 518054
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Shenzhen SEI Robotics Co., Ltd.
Address.....	: 12F, Kangtai Innovation Plaza Building A, No. 222 Kefa Road, Yue Hai Sub-district, Nanshan District, Shenzhen, China 518054
Telephone.....	: /
Fax.....	: /
Factory.....	: Jiangxi COMNECT Technology Co., Ltd.
Address.....	: Second Standard Factory, Zhongcai Road, Yingbin Avenue, Luxi Industrial Park, Luxi County, Pingxiang City, Jiangxi Province, China
Telephone.....	: /
Fax.....	: /

Test Result:	Positive
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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Revision History

Report Version	Issue Date	Revision Content	Revised By
000	January 23, 2025	Initial Issue	---





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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	: GPON Router
Test Model	: SG1696D2VR (SG401C)
Additional Model No.	: SG401CX (X:A-Z)
Model Declaration	: PCB board, structure and internal of these model(s) are the same, The only difference is that the external ports are different, so a difference test is performed
Power Supply	: Input: 12.0V $\pm$ 1.5A For AC Adapter Input: 100-240V~, 50/60Hz, 0.5A Adapter Output: 12.0V $\pm$ 1.5A, 18.0W
Hardware Version	: V0.01
Software Version	: V1.1.0.7
WIFI (2.4G Band)	:
Frequency Range	: 2412MHz~2462MHz
Channel Number	: 11 Channels for 20MHz bandwidth (2412~2462MHz) 7 Channels for 40MHz bandwidth (2422~2452MHz)
Channel Spacing	: 5MHz
Modulation Type	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: Antenna 1: Internal Antenna, 3.52dBi (Max.) Antenna 2: Internal Antenna, 5.42dBi (Max.)
WIFI (5.2G Band)	:
Frequency Range	: 5150MHz~5250MHz
Channel Number	: 4 channels for 20MHz bandwidth(5180MHz~5240MHz) 2 channels for 40MHz bandwidth(5190MHz~5230MHz) 1 channel for 80MHz bandwidth(5210MHz)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: Antenna 3: Internal Antenna, 5.24dBi (Max.) Antenna 4: Internal Antenna, 5.19dBi (Max.)

5.3G WLAN

Frequency Range	: 5250-5350MHz
Channel Number	: 4 Channels for 20MHz bandwidth(5260MHz~5320MHz) 2 channels for 40MHz bandwidth(5270MHz~5310MHz)



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Modulation Type : 1 channel for 80MHz bandwidth(5290MHz)
1 channel for 160MHz bandwidth(5250MHz)
IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11ax: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)

Antenna Description : Antenna 3: Internal Antenna, 5.24dBi (Max.)
Antenna 4: Internal Antenna, 5.19dBi (Max.)

5.5G WLAN

Frequency Range : 5470-5725MHz

Channel Number : 11 Channels for 20MHz bandwidth(5500MHz-5700MHz)
5 Channels for 40MHz bandwidth(5510MHz-5670MHz)
2 Channels for 80MHz bandwidth (5530MHz, 5610MHz)
1 channel for 160MHz bandwidth(5570MHz)

Modulation Type : IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11ax: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)

Antenna Description : Antenna 3: Internal Antenna, 5.24dBi (Max.)
Antenna 4: Internal Antenna, 5.19dBi (Max.)

WIFI (5.8G Band)

Frequency Range : 5725MHz~5850MHz

Channel Number : 5 channels for 20MHz bandwidth(5745MHz~5825MHz)
2 channels for 40MHz bandwidth(5755MHz~5795MHz)
1 channel for 80MHz bandwidth(5775MHz)

Modulation Type : IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11ax: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)

Antenna Description : Antenna 3: Internal Antenna, 5.24dBi (Max.)
Antenna 4: Internal Antenna, 5.19dBi (Max.)

1.2. Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
Shenzhen Sorghum red Electronics Technology Co., Ltd	SWITCHING ADAPTER	GLH1201500	---	FCC



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1.3. External I/O Cable

I/O Port Description	Quantity	Cable
USB Port	1	N/A
Power Port	1	N/A
LAN Port	5	N/A

1.4. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6. Measurement Uncertainty

No.	Item	Uncertainty
1	DFS Threshold (radiated)	±1.50dB
2	DFS Threshold (conducted)	±1.45dB
3	Temperature	±0.5°C
4	Humidity	±2%

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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1.7. Description of Test Modes

The EUT has been tested under operating condition.

Worst-Case data rates were utilized from preliminary testing of the Chipset, worst-case data rates used during the testing are as follows:

IEEE 802.11a Mode: 6 Mbps, OFDM.

IEEE 802.11n HT20 Mode: MCS0, OFDM.

IEEE 802.11n HT40 Mode: MCS0, OFDM.

IEEE 802.11ac VHT20 Mode: MCS0

IEEE 802.11ac VHT40 Mode: MCS0, OFDM.

IEEE 802.11ac VHT80 Mode: MCS0, OFDM.

IEEE 802.11ac VHT160 Mode: MCS0, OFDM.

IEEE 802.11 ax HEW 20

IEEE 802.11 ax HEW 40

IEEE 802.11 ax HEW 80

IEEE 802.11 ax HEW 160

802.11ax HEW20_Nss1, (MCS0), RU 26, #RU 0

802.11ax HEW20_Nss1, (MCS0), RU 26, #RU 4

802.11ax HEW20_Nss1, (MCS0), RU 26, #RU 8

802.11ax HEW20_Nss1, (MCS0), RU 52, #RU 37

802.11ax HEW20_Nss1, (MCS0), RU 52, #RU 40

802.11ax HEW20_Nss1, (MCS0), RU 106, #RU 53

802.11ax HEW20_Nss1, (MCS0), RU 106, #RU 54

802.11ax HEW40_Nss1, (MCS0), RU 242, #RU 61

802.11ax HEW40_Nss1, (MCS0), RU 242, #RU 62

802.11ax HEW80_Nss1, (MCS0), RU 484, #RU 65

802.11ax HEW80_Nss1, (MCS0), RU 484, #RU 66

802.11ax HEW160_Nss1, (MCS0), RU 996, #RU 67

802.11ax HEW160_Nss1, (MCS0), RU 996, #RU 195

Antenna & Bandwidth

Antenna	Chain1 (Ant3)				Chain2 (Ant4)			
Bandwidth Mode	20MHz	40MHz	80MHz	160MHz	20MHz	40MHz	80MHz	160MHz
IEEE 802.11a	☒	☐	☐	☐	☒	☐	☐	☐
IEEE 802.11n	☒	☒	☐	☐	☒	☒	☐	☐
IEEE 802.11ac	☒	☒	☒	☐	☒	☒	☒	☒
IEEE 802.11ax	☒	☒	☒	☐	☒	☒	☒	☒



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1.8. Channel List and Frequency

U-NI-2A

Frequency Band	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
5260~5320MHz	50	5250	58	5290
	52	5260	60	5300
	54	5270	62	5310
	56	5280	64	5320

U-NI-2C

Frequency Band	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
5500~5700MHz	100	5500	118	5590
	102	5510	120	5600
	104	5520	122	5610
	106	5530	124	5620
	108	5540	126	5630
	110	5550	128	5640
	112	5560	132	5660
	114	5570	134	5670
	116	5580	136	5680
	--	--	140	5700

Test channel

Test Mode	Test Channel	Test Frequency
802.11ax-HEW20	100	5500
802.11ax-HEW40	102	5510
802.11ax-HEW80	106	5530
802.11ax-HEW160	114	5570



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1.9. Conducted Output Power and EIRP

Mode	Frequency Band (MHz)	Maximum Conducted Output Power (dBm)	Antenna Gain (dBi)	Maximum EIRP (dBm)	Maximum EIRP (mW)
IEEE 802.11a	5260 – 5320	13.03	5.24	18.27	67.14
	5500 – 5700	13.04	5.24	18.28	67.30
IEEE 802.11n HT20 MIMO	5260 – 5320	14.37	8.23	22.6	181.97
	5500 – 5700	14.46	8.23	22.69	185.78
IEEE 802.11ac VHT20 MIMO	5260 – 5320	14.25	8.23	22.48	177.01
	5500 – 5700	14.39	8.23	22.62	182.81
IEEE 802.11ax HEW20 MIMO	5260 – 5320	14.58	8.23	22.81	190.99
	5500 – 5700	12.06	8.23	20.29	106.91
IEEE 802.11n HT40 MIMO	5270 – 5310	13.37	8.23	21.6	144.54
	5510 – 5670	13.46	8.23	21.69	147.57
IEEE 802.11ac VHT40 MIMO	5270 – 5310	13.79	8.23	22.02	159.22
	5510 – 5670	13.39	8.23	21.62	145.21
IEEE 802.11ax HEW40 MIMO	5270 – 5310	13.31	8.23	21.54	142.56
	5510 – 5670	13.36	8.23	21.59	144.21
IEEE 802.11ac VHT80 MIMO	5290	12.63	8.23	20.86	121.90
	5530-5610	12.33	8.23	20.56	113.76
IEEE 802.11ax HEW80 MIMO	5290	12.76	8.23	20.99	125.60
	5530-5610	12.34	8.23	20.57	114.02
IEEE 802.11ac VHT160 MIMO	5250	17.53	8.23	25.76	376.70
IEEE 802.11ax HEW160 MIMO	5250	18.27	8.23	26.5	446.68
IEEE 802.11ac VHT160 MIMO	5570	11.98	8.23	20.21	104.95
IEEE 802.11ax HEW60 MIMO	5570	11.80	8.23	20.03	100.69

Remark:

1. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW;



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2. TEST METHODOLOGY

This report has been prepared to demonstrate compliance with the requirements for Dynamic Frequency Selection (DFS) as stated in FCC CFR 47 PART 15E(15.407). Testing was performed in accordance with the measurement procedure described in FCC KDB 905462 D02 v02

3. SYSTEM TEST CONFIGURATION

3.1. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software provided by application.

3.2. Special Accessories

N/A

3.3. Block Diagram/Schematics

Please refer to the related document

3.4. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.5. Test Setup

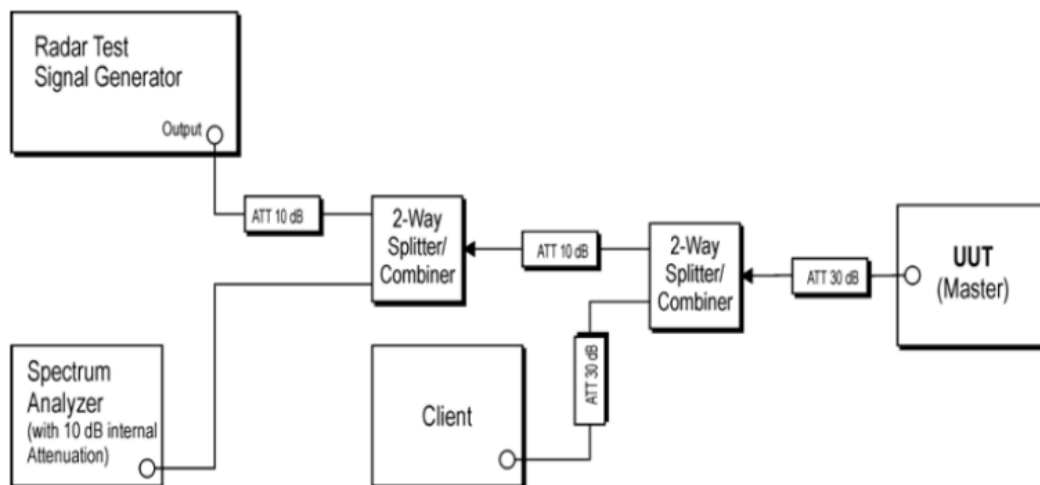


Figure 7-1. Test Setup



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4. SUMMARY OF TEST RESULTS

Requirement	Results
Non-Occupancy Period	Pass
DFS Detection Threshold	Pass
Channel Availability Check Time	Pass
Channel Closing Transmission Time	Pass
Channel Move Time	Pass
U-NII Detection Bandwidth	Pass
Statistical Performance Check	Pass

Device is master and client with radar detection function.





5. DESCRIPTION OF DYNAMIC FREQUENCY SELECTION TEST

5.1. Requirements

Per FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 the following are the requirements for Master Devices:

- (a) The Master Device will use DFS in order to detect Radar Waveforms with received signal strength above the DFS Detection Threshold in the 5250 ~ 5350 MHz and 5470 ~ 5725 MHz bands. DFS is not required in the 5150 ~ 5250 MHz or 5725 ~ 5825 MHz bands.
- (b) Before initiating a network on a Channel, the Master Device will perform a Channel Availability Check for a specified time duration (Channel Availability Check Time) to ensure that there is no radar system operating on the Channel, using DFS described under subsection a) above.
- (c) The Master Device initiates a U-NII network by transmitting control signals that will enable other U-NII devices to Associate with the Master Device.
- (d) During normal operation, the Master Device will monitor the Channel (In-Service Monitoring) to ensure that there is no radar system operating on the Channel, using DFS described under a).
- (e) If the Master Device has detected a Radar Waveform during In-Service Monitoring as described under d), the Operating Channel of the U-NII network is no longer an Available Channel. The Master Device will instruct all associated Client Device(s) to stop transmitting on this Channel within the Channel Move Time. The transmissions during the Channel Move Time will be limited to the Channel Closing Transmission Time.
- (f) Once the Master Device has detected a Radar Waveform it will not utilize the Channel for the duration of the Non-Occupancy Period.
- (g) If the Master Device delegates the In-Service Monitoring to a Client Device, then the combination will be tested to the requirements described under d) through f) above

Table 1: 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	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes



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**Table 2: Applicability of DFS requirements during normal operation**

Requirement	Operational Mode	
	Master Device 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	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

5.2. RESPONSE REQUIREMENTS

Table 4: 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.

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



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6. DFS DETECTION THRESHOLD VALUES

The DFS detection thresholds are defined for Master devices and Client Devices with In-service monitoring. These detection thresholds are listed in the following table.

Maximum Transmit Power	Value (See Notes 1 and 2)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP $<$ 200 milliwatt and Power spectral $<$ 10 dBm/MHz	-62 dBm
EIRP $<$ 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

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

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

Note 3: EIRP is based on the highest antenna. For MIMO devices refer to KDB Publication 662911 D01.

7. DFS TEST SIGNALS

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.



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Table 5 – 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 Note 1	See Note 1
1	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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Table 5a - Pulse Repetition Intervals Values for Test A

Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

Table 6 – 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.

Each waveform is defined as follows:

- 1) The transmission period for the Long Pulse Radar test signal is 12 seconds.
- 2) There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst Count.
- 3) Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.
- 4) The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen.

Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.



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5) Each pulse has a linear frequency modulated chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a transmission period will have the same chirp width. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.

6) If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the random time interval between the first and second pulses is chosen independently of the random time interval between the second and third pulses.

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

A representative example of a Long Pulse Radar Type waveform:

- 1) The total test waveform length is 12 seconds.
- 2) Eight (8) Bursts are randomly generated for the Burst Count.
- 3) Burst 1 has 2 randomly generated pulses.
- 4) The pulse width (for both pulses) is randomly selected to be 75 microseconds.
- 5) The PRI is randomly selected to be at 1213 microseconds.
- 6) Bursts 2 through 8 are generated using steps 3 – 5.
- 7) Each Burst is contained in even intervals of 1,500,000 microseconds. The starting location for Pulse 1, Burst 1 is randomly generated (1 to 1,500,000 minus the total Burst 1 length + 1 random PRI interval) at the 325,001 microsecond step. Bursts 2 through 8 randomly fall in successive 1,500,000 microsecond intervals (i.e. Burst 2 falls in the 1,500,001 – 3,000,000 microsecond range).

Table 7 – 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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Manufacturer's Statement Regarding Uniform Channel Spreading

The end product implements an automatic channel selection feature at startup such that operation commences on channels distributed across the entire set of allowed 5GHz channels. This feature will ensure uniform spreading is achieved while avoiding non-allowed channels due to prior radar events.

TEST AND MEASUREMENT SYSTEM

System Overview

The measurement system is based on a conducted test method.

The short pulse and long pulse signal generating system utilizes the NTIA software and the same manufacturer / model Vector Signal Generator as the NTIA. The hopping signal generating system utilizes the simulated hopping method.

The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution. The short pulse types 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time. The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List, with the initial starting point randomized at run-time.

The signal monitoring equipment consists of a spectrum analyzer with the capacity to display 8192 bins on the horizontal axis. A time-domain resolution of 2 msec / bin is achievable with a 16 second sweep time, meeting the 10 second short pulse reporting criteria. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold. A time-domain resolution of 3 msec / bin is achievable with a 24 second sweep time, meeting the 22 second long pulse reporting criteria and allowing a minimum of 10 seconds after the end of the long pulse waveform.

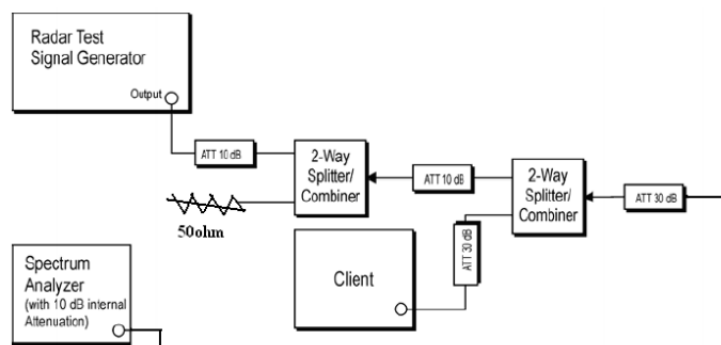
Frequency Hopping Signal Generation

The hopping burst generator is a High Speed Digital I/O card plugged into the control computer. This card utilizes an independent hardware clock reference therefore the output pulse timing is unaffected by host computer operating system latency times.

The software selects the hopping sequence as a 100-length segment of the August 2005 NTIA hopping frequency list. This list contains 274 unique pseudorandom sequences. Each such sequence contains 475 frequencies ordered on a random without replacement basis. Each successive trial uses a contiguous 100-length segment from within each successive 475-length sequence in the list. The initial starting point within the list is randomized at run-time such that the first 100-length segment is entirely contained within the first 475-length sequence. The starting point of each successive trial is incremented by 475.

Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of FCC 06-96 APPENDIX. The frequency of the signal generator is incremented in 1 MHz steps from FL to FH for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

Conducted Method System Block Diagram



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Measurement System Frequency Reference

Lock the signal generator and the spectrum analyzer to the same reference source as follows: Connect the 10 MHz OUT (SWITCHED) on the spectrum analyzer to the 10 MHz IN on the signal generator and set the spectrum analyzer 10 MHz Out to On.

Interference Detection Threshold Adjustment

Download the applicable radar waveforms to the signal generator. Select the radar waveform, trigger a burst manually and measure the amplitude on the spectrum analyzer. Readjust the amplitude of the signal generator as required so that the peak level of the waveform is at a displayed level equal to the required or desired

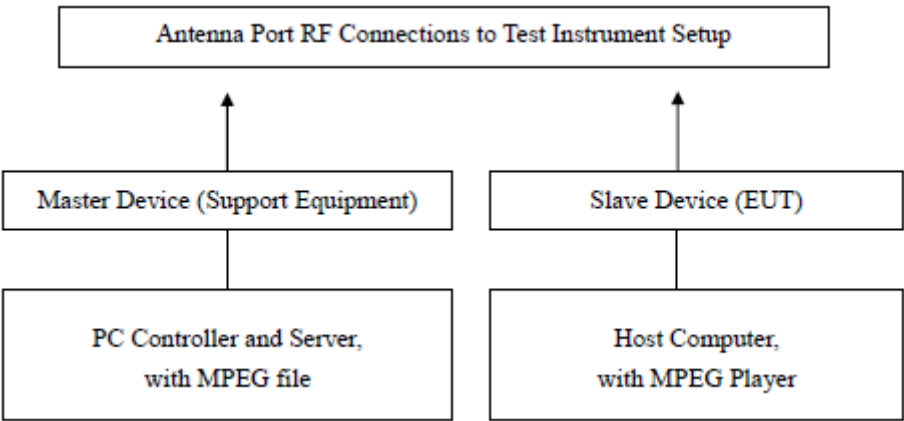
interference detection threshold. Separate signal generator amplitude settings are determined as required for each radar type.

Adjustment Of Displayed Traffic Level

Establish a link between the Master and Slave, adjusting the Link Step Attenuator as needed to provide a suitable received level at the Master and Slave devices. Stream the video test file to generate WLAN traffic. Confirm that the WLAN traffic level, as displayed on the spectrum analyzer, is at lower amplitude than the radar detection threshold. Confirm that the displayed traffic is from the Master Device. For Master Device testing confirm that the displayed traffic does not include Slave Device traffic. For Slave Device testing confirm that the displayed traffic does not include Master Device traffic.

If a different setting of the Master Step Attenuator is required to meet the above conditions, perform a new System Calibration for the new Master Step Attenuator setting.

Test Setup



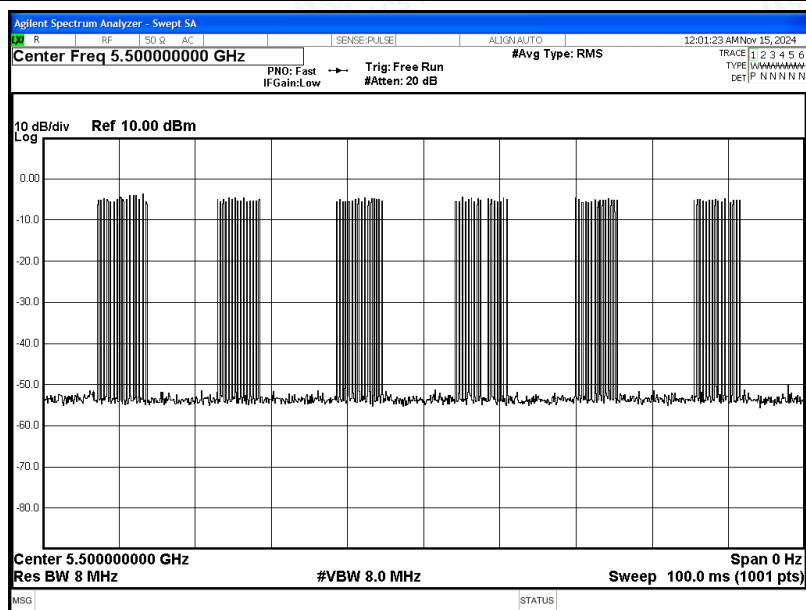


8. DFS CONFORMANCE TEST PROCEDURES

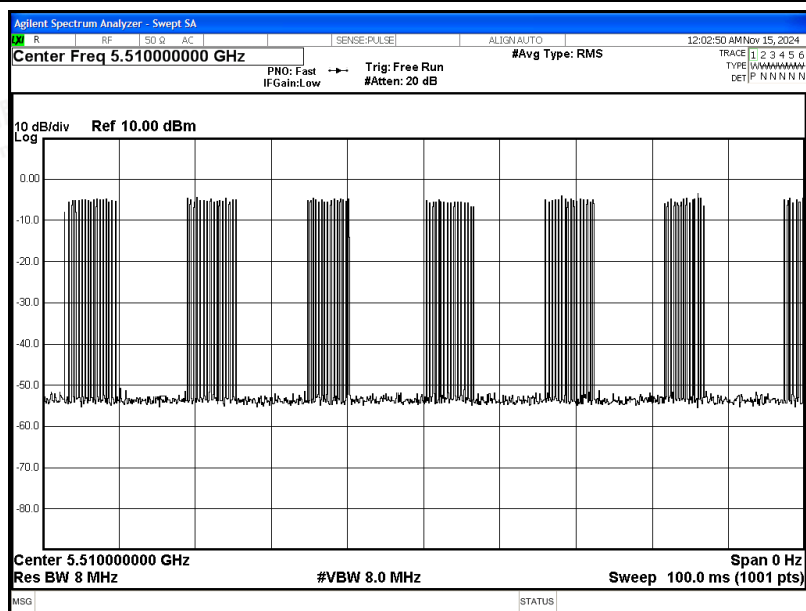
8.1 Channel Loading

Test Mode	Test Frequency	Packet Ratio	Requirement Ratio	Test Result
802.11ax-HEW20	5500	18.85%	≥17%	PASS
802.11ax-HEW40	5510	18.87%	≥17%	PASS
802.11ax-HEW80	5530	18.96%	≥17%	PASS
802.11ax-HEW160	5570	18.89%	≥17%	PASS

Note: System testing was performed with the designated iperf test file. This file is used by IP and Frame based systems for loading the test channel during the In-service compliance testing of the U-NII device. Packet ratio = Time On / (Time On + Off Time).



802.11ax-HEW20



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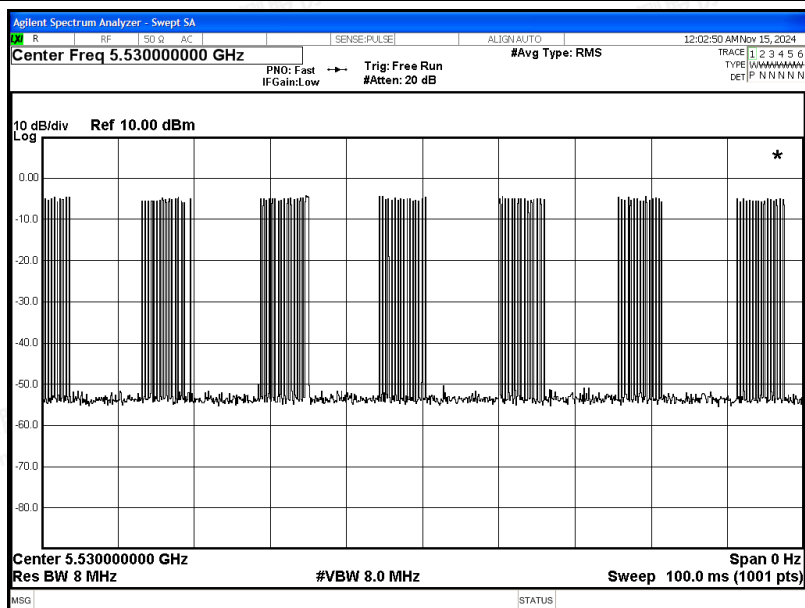
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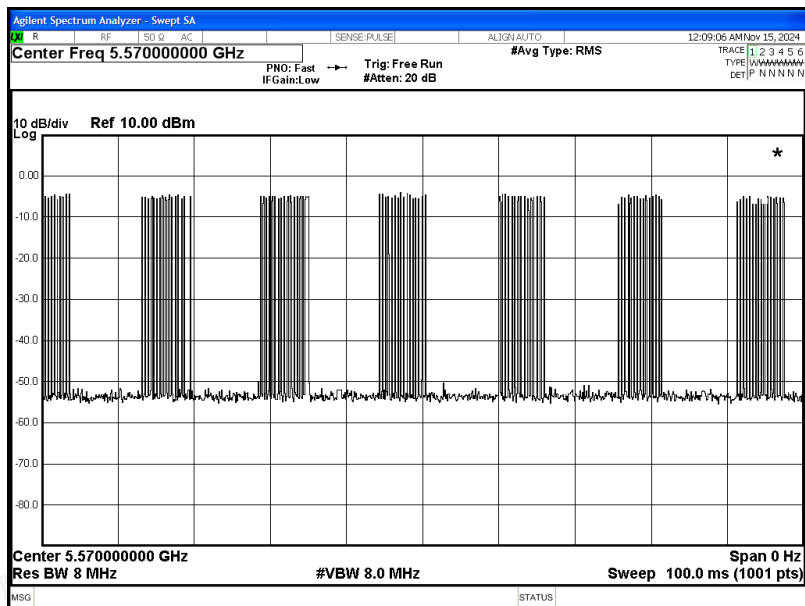
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802.11ax-HEW40



802.11ax-HEW80



802.11ax-HEW160



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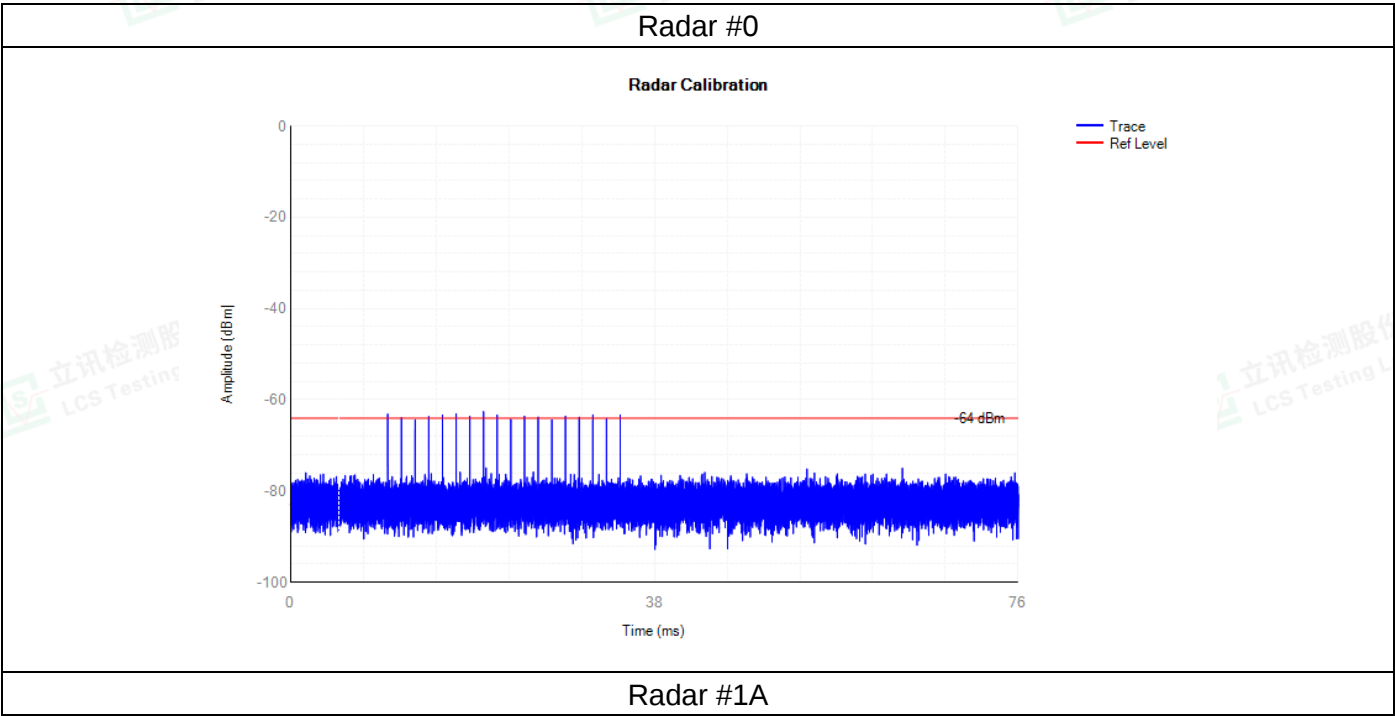


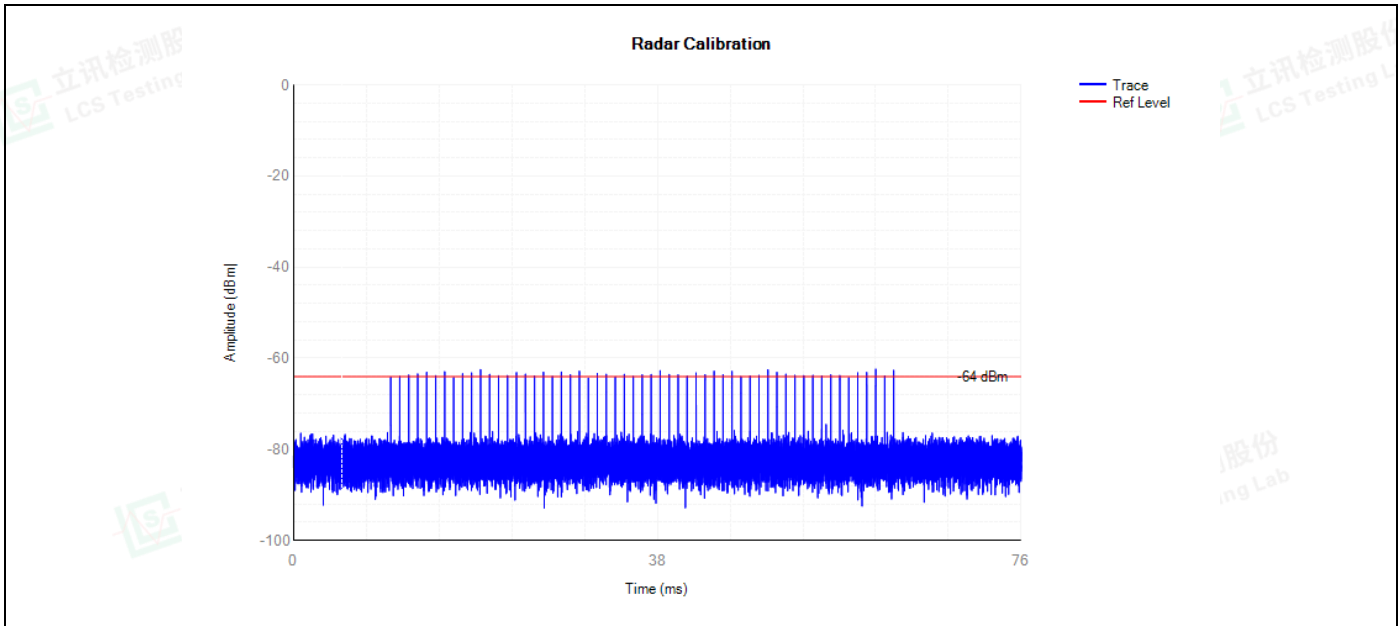
8.2 Radar Waveform Calibration Measurement

8.2.1 Calibration Procedure

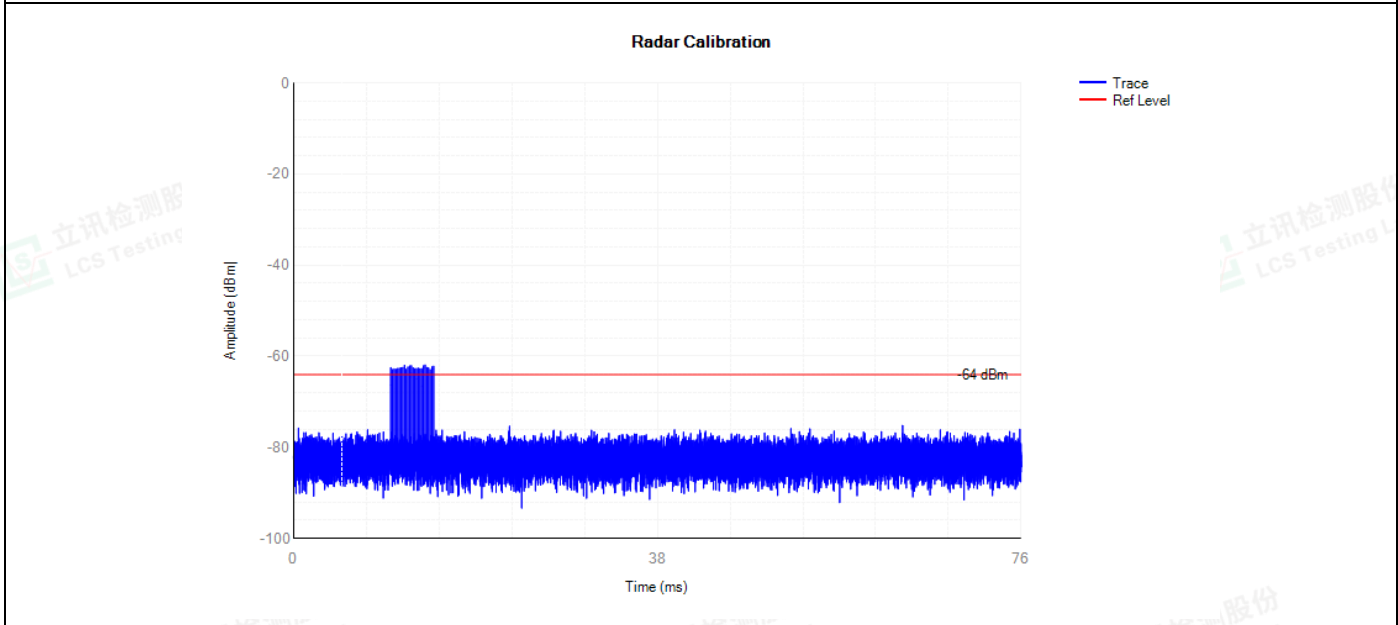
The Interference Radar Detection Threshold Level is $(-64\text{dBm}) + (0) [\text{dBi}] = -64 \text{ dBm}$ that had been taken into account the output power range and antenna gain. The above equipment setup was used to calibrate the conducted Radar Waveform. A vector signal generator was utilized to establish the test signal level for each radar type. During this process there were replace 50ohm terminal form Master and Client device and no transmissions by either the Master or Client Device. The spectrum analyzer was switched to the zero span (Time Domain) at the frequency of the Radar Waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to at least 3MHz. The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was $(-64\text{dBm}) + (0) [\text{dBi}] = -64 \text{ dBm}$. Capture the spectrum analyzer plots on short pulse radar types, long pulse radar type and hopping radar waveform.

8.2.2 Calibration Results





Radar #1B



Radar #2

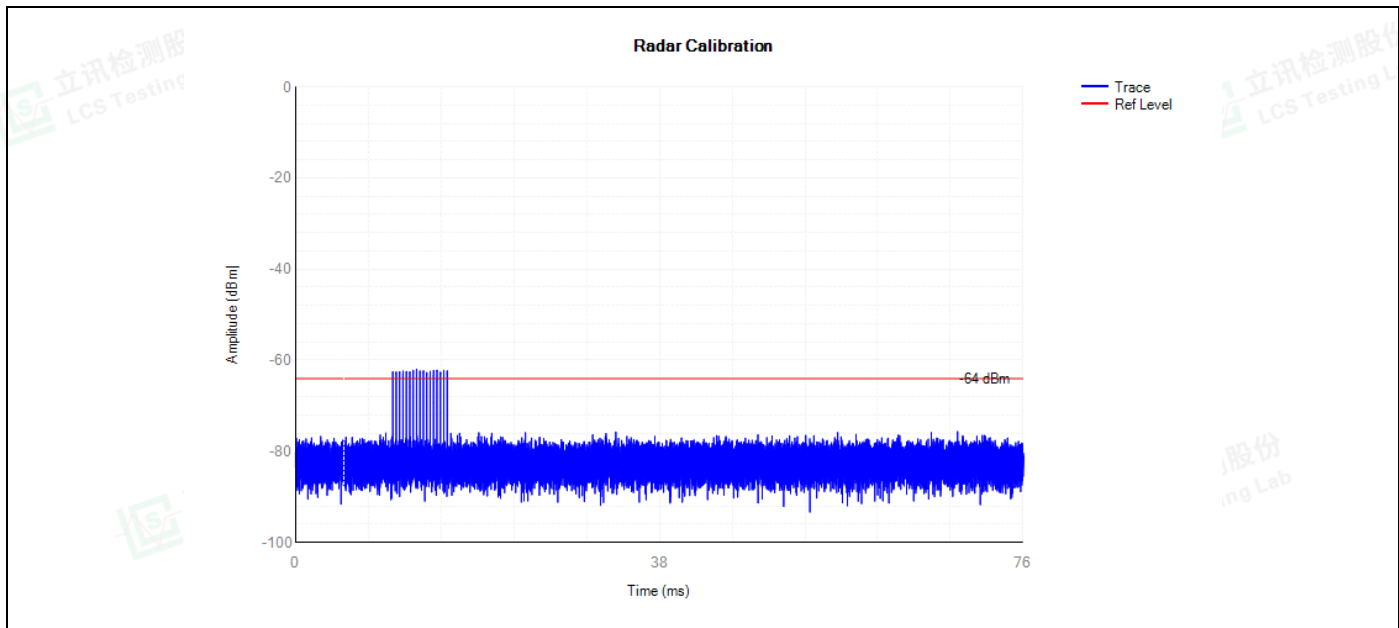


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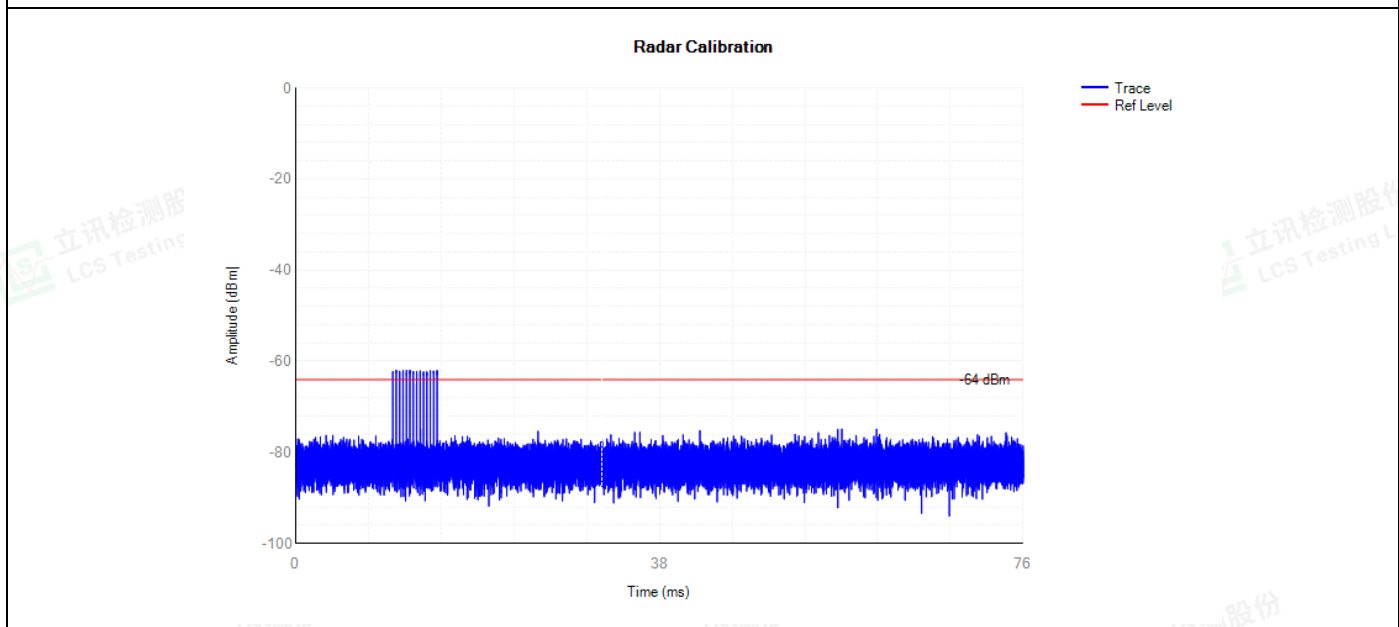
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Radar #3



Radar #4

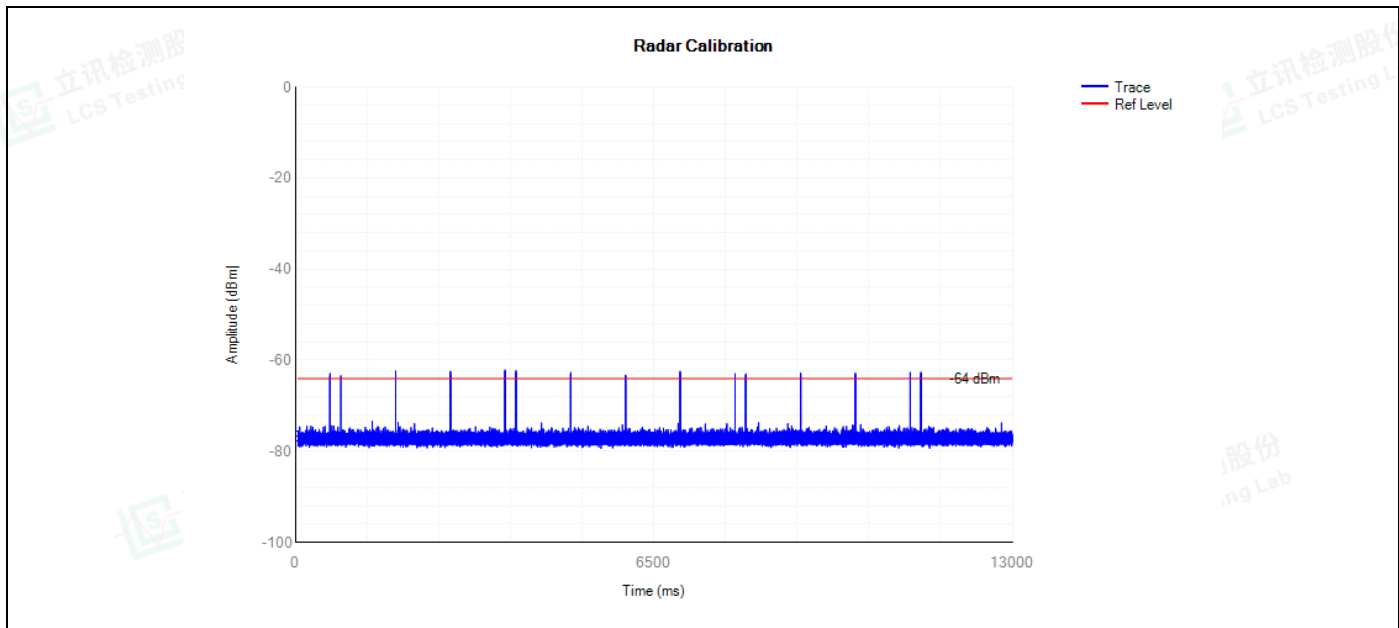


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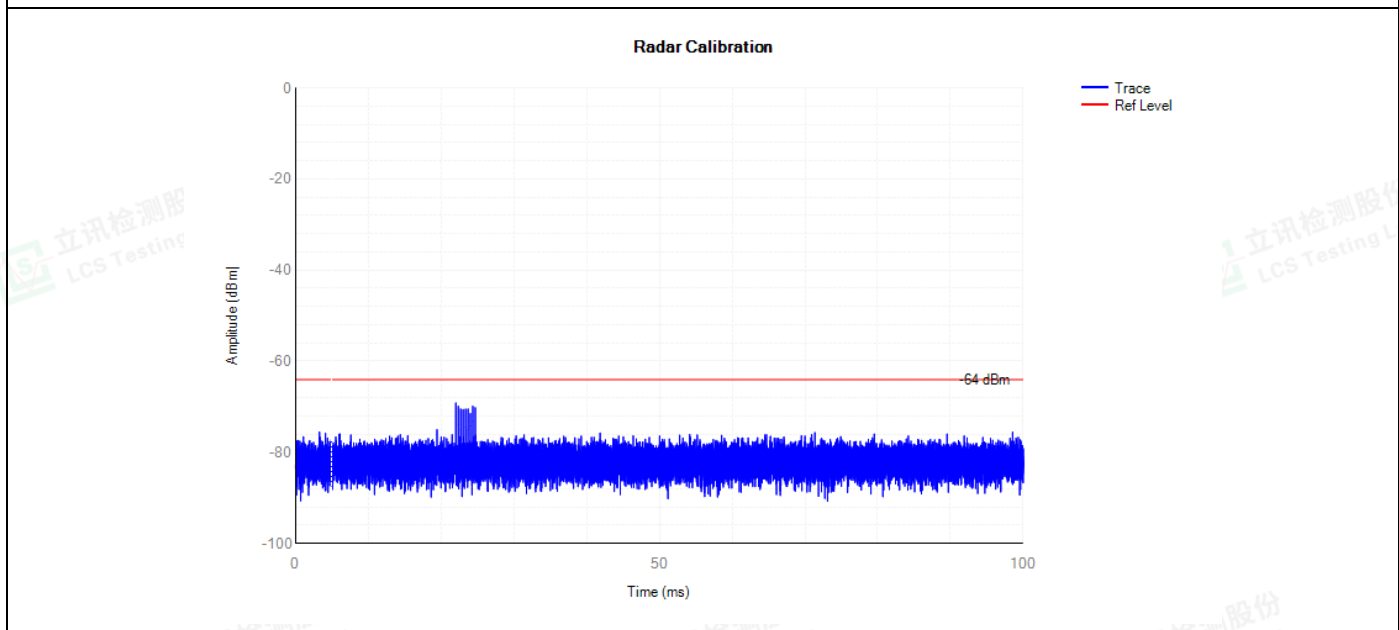
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Radar #5



Radar #6

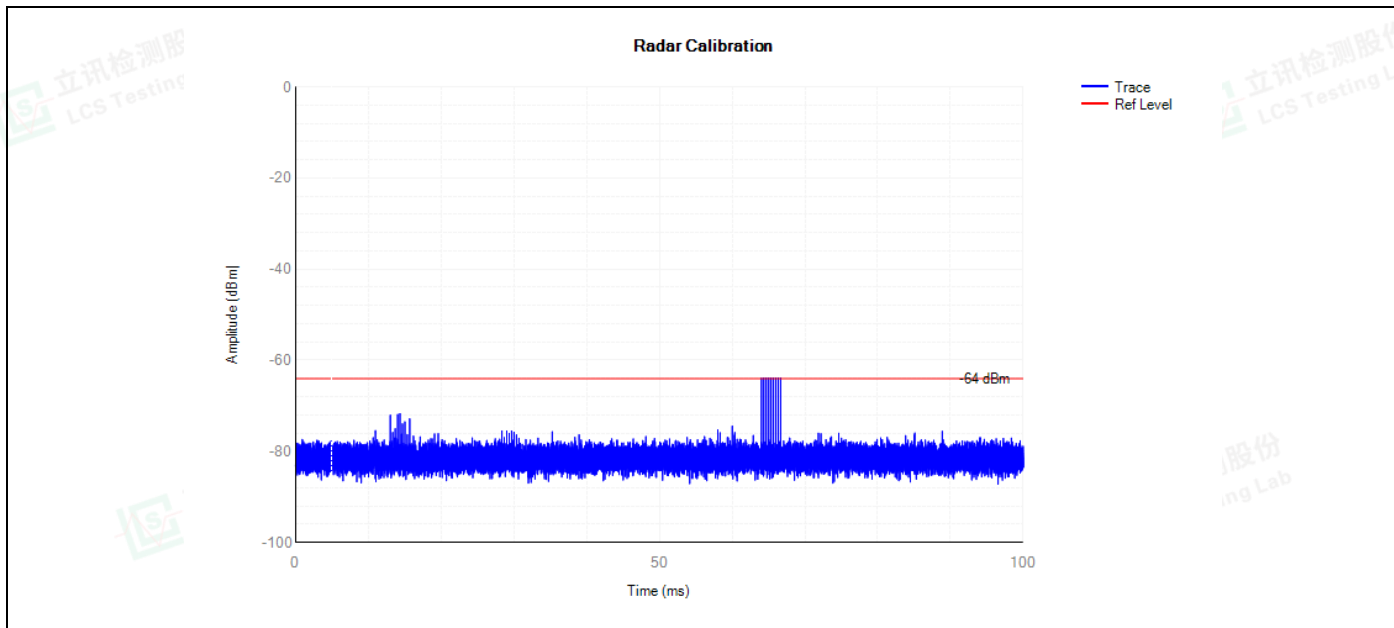


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8.3 NII Detection Bandwidth Measurement

8.3.1 Test Limit

Minimum 100% of the NII 99% transmission power bandwidth. During the U-NII Detection Bandwidth detection test, each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

8.3.2 Test Procedure

1. Adjust the equipment to produce a single Burst of any one of the Short Pulse Radar Types 0 –4 in Table 5 at the center frequency of the UUT Operating Channel at the specified DFS Detection Threshold level found in Table 3.
2. The generating equipment is configured as shown in the Conducted Test Setup above Figure 7-1
3. The EUT is set up as a stand-alone device (no associated Client or Master, as appropriate) and no traffic. Frame based systems will be set to a talk/listen ratio reflecting the worst case (maximum) that is user configurable during this test.
4. Generate a single radar Burst, and note the response of the EUT. Repeat for a minimum of 10 trials. The EUT must detect the Radar Waveform using the specified U-NII Detection Bandwidth criterion shown in Table 3-5. In cases where the channel bandwidth may exceed past the DFS band edge on specific channels (i.e., 802.11ac or wideband frame-based systems) select a channel that has the entire emission bandwidth within the DFS band. If this is not possible, test the detection BW to the DFS band edge.
5. Starting at the center frequency of the UUT operating Channel, increase the radar frequency in 5 MHz steps, repeating the above test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion specified in Table 3-3. Repeat this measurement in 1MHz steps at frequencies 5 MHz below where the detection rate begins to fall. Record the highest frequency (denote as FH) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies above FH is not required to demonstrate compliance.
6. Starting at the center frequency of the EUT operating Channel, decrease the radar frequency in 1 MHz steps, repeating the above item 4 test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion. Record the lowest frequency (denote as FL) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies below FL is not required to demonstrate compliance.
7. The U-NII Detection Bandwidth is calculated as follows: $\text{U-NII Detection Bandwidth} = \text{FH} - \text{FL}$
8. The U-NII Detection Bandwidth must be at least 100% of the EUT transmitter 99% power, otherwise, the EUT does not comply with DFS requirements



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8.3.3 Test Result

Detection Bandwidth (802.11ax-HE20 mode-5500MHz)												
Radar Frequency (MHz)	DFS Detection Trials (1=Detection, 0=no Detection)										Detection Rate (%)	Limit (%)
	1	2	3	4	5	6	7	8	9	10		
5489	0	0	0	0	0	0	0	0	0	0	0	/
5490FL	1	1	1	1	1	1	1	1	1	1	100	90
5491	1	1	1	1	1	1	1	1	1	1	100	90
5492	1	1	1	1	1	1	1	1	1	1	100	90
5493	1	1	1	1	1	1	1	1	1	1	100	90
5495	1	1	1	1	1	1	1	1	1	1	100	90
5500	1	1	1	1	1	1	1	1	1	1	100	90
5505	1	1	1	1	1	1	1	1	1	1	100	90
5506	1	1	1	1	1	1	1	1	1	1	100	90
5507	1	1	1	1	1	1	1	1	1	1	100	90
5508	1	1	1	1	1	1	1	1	1	1	100	90
5509	1	1	1	1	1	1	1	1	1	1	100	90
5510FH	1	1	1	1	1	1	1	1	1	1	100	90
5511	0	0	0	0	0	0	0	0	0	0	0	/
Note 1: The 99% channel bandwidth is 17.695MHz. (See the 99% BW section of the RF report for further measurement details).												
Note 2: Detection Bandwidth = FH - FL = 5510MHz – 5490MHz = 20MHz												
Note 3: NII Detection Bandwidth Min. Limit (MHz): 17.695MHz x 100% = 17.695MHz.												

Detection Bandwidth (802.11ax-HE40 mode-5510MHz)												
Radar Frequency(MHz)	DFS Detection Trials (1=Detection, 0=no Detection)										Detection Rate (%)	Limit (%)
	1	2	3	4	5	6	7	8	9	10		
5489	0	0	0	0	0	0	0	0	0	0	0	/
5490FL	1	1	1	1	1	1	1	1	1	1	100	90
5491	1	1	1	1	1	1	1	1	1	1	100	90
5492	1	1	1	1	1	1	1	1	1	1	100	90
5493	1	1	1	1	1	1	1	1	1	1	100	90
5495	1	1	1	1	1	1	1	1	1	1	100	90
5500	1	1	1	1	1	1	1	1	1	1	100	90
5505	1	1	1	1	1	1	1	1	1	1	100	90
5510	1	1	1	1	1	1	1	1	1	1	100	90
5515	1	1	1	1	1	1	1	1	1	1	100	90
5520	1	1	1	1	1	1	1	1	1	1	100	90
5525	1	1	1	1	1	1	1	1	1	1	100	90



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5526	1	1	1	1	1	1	1	1	1	1	100	90
5527	1	1	1	1	1	1	1	1	1	1	100	90
5528	1	1	1	1	1	1	1	1	1	1	100	90
5529	1	1	1	1	1	1	1	1	1	1	100	90
5530FH	1	1	1	1	1	1	1	1	1	1	100	90
5531	0	0	0	0	0	0	0	0	0	0	0	/

Note 1: The 99% channel bandwidth is 36.16MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = FH - FL = 5530MHz - 5490MHz = 40MHz.

Note 3: NII Detection Bandwidth Min. Limit (MHz): 36.16MHzx 100% = 36.16MHz.

Detection Bandwidth (802.11ax-HE80 mode-5530MHz)												
Radar Frequency (MHz)	DFS Detection Trials (1=Detection, 0=no Detection)										Detection Rate (%)	Limit (%)
	1	2	3	4	5	6	7	8	9	10		
5489	0	0	0	0	0	0	0	0	0	0	0	/
5490FL	1	1	1	1	1	1	1	1	1	1	100	90
5491	1	1	1	1	1	1	1	1	1	1	100	90
5492	1	1	1	1	1	1	1	1	1	1	100	90
5493	1	1	1	1	1	1	1	1	1	1	100	90
5495	1	1	1	1	1	1	1	1	1	1	100	90
5500	1	1	1	1	1	1	1	1	1	1	100	90
5505	1	1	1	1	1	1	1	1	1	1	100	90
5510	1	1	1	1	1	1	1	1	1	1	100	90
5515	1	1	1	1	1	1	1	1	1	1	100	90
5520	1	1	1	1	1	1	1	1	1	1	100	90
5525	1	1	1	1	1	1	1	1	1	1	100	90
5526	1	1	1	1	1	1	1	1	1	1	100	90
5527	1	1	1	1	1	1	1	1	1	1	100	90
5528	1	1	1	1	1	1	1	1	1	1	100	90
5529	1	1	1	1	1	1	1	1	1	1	100	90
5530	1	1	1	1	1	1	1	1	1	1	100	90
5535	1	1	1	1	1	1	1	1	1	1	100	90
5540	1	1	1	1	1	1	1	1	1	1	100	90
5545	1	1	1	1	1	1	1	1	1	1	100	90
5550	1	1	1	1	1	1	1	1	1	1	100	90
5555	1	1	1	1	1	1	1	1	1	1	100	90
5560	1	1	1	1	1	1	1	1	1	1	100	90
5565	1	1	1	1	1	1	1	1	1	1	100	90
5566	1	1	1	1	1	1	1	1	1	1	100	90
5567	1	1	1	1	1	1	1	1	1	1	100	90
5568	1	1	1	1	1	1	1	1	1	1	100	90



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5568	1	1	1	1	1	1	1	1	1	1	100	90
5570FH	1	1	1	1	1	1	1	1	1	1	100	90
5571	0	0	0	0	0	0	0	0	0	0	0	/

Note 1: The 99% channel bandwidth is 75.602MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = FH - FL = 5570MHz - 5490MHz = 80MHz.

Note 3: NII Detection Bandwidth Min. Limit (MHz): 75.602MHz. x 100% = 75.602MHz.

Detection Bandwidth (802.11ax-HE160 mode-5570MHz)												
Radar Frequency (MHz)	DFS Detection Trials (1=Detection, 0=no Detection)										Detection Rate (%)	Limit (%)
	1	2	3	4	5	6	7	8	9	10		
5489	0	0	0	0	0	0	0	0	0	0	0	/
5490FL	1	1	1	1	1	1	1	1	1	1	100	90
5491	1	1	1	1	1	1	1	1	1	1	100	90
5492	1	1	1	1	1	1	1	1	1	1	100	90
5493	1	1	1	1	1	1	1	1	1	1	100	90
5495	1	1	1	1	1	1	1	1	1	1	100	90
5500	1	1	1	1	1	1	1	1	1	1	100	90
5505	1	1	1	1	1	1	1	1	1	1	100	90
5510	1	1	1	1	1	1	1	1	1	1	100	90
5515	1	1	1	1	1	1	1	1	1	1	100	90
5520	1	1	1	1	1	1	1	1	1	1	100	90
5525	1	1	1	1	1	1	1	1	1	1	100	90
5526	1	1	1	1	1	1	1	1	1	1	100	90
5527	1	1	1	1	1	1	1	1	1	1	100	90
5528	1	1	1	1	1	1	1	1	1	1	100	90
5529	1	1	1	1	1	1	1	1	1	1	100	90
5530	1	1	1	1	1	1	1	1	1	1	100	90
5535	1	1	1	1	1	1	1	1	1	1	100	90
5540	1	1	1	1	1	1	1	1	1	1	100	90
5545	1	1	1	1	1	1	1	1	1	1	100	90
5550	1	1	1	1	1	1	1	1	1	1	100	90
5555	1	1	1	1	1	1	1	1	1	1	100	90
5560	1	1	1	1	1	1	1	1	1	1	100	90
5565	1	1	1	1	1	1	1	1	1	1	100	90
5570	1	1	1	1	1	1	1	1	1	1	100	90
5575	1	1	1	1	1	1	1	1	1	1	100	90
5580	1	1	1	1	1	1	1	1	1	1	100	90
5585	1	1	1	1	1	1	1	1	1	1	100	90
5590	1	1	1	1	1	1	1	1	1	1	100	90
5595	1	1	1	1	1	1	1	1	1	1	100	90



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5600	1	1	1	1	1	1	1	1	1	1	100	90
5605	1	1	1	1	1	1	1	1	1	1	100	90
5610	1	1	1	1	1	1	1	1	1	1	100	90
5615	1	1	1	1	1	1	1	1	1	1	100	90
5620	1	1	1	1	1	1	1	1	1	1	100	90
5625	1	1	1	1	1	1	1	1	1	1	100	90
5630	1	1	1	1	1	1	1	1	1	1	100	90
5635	1	1	1	1	1	1	1	1	1	1	100	90
5640	1	1	1	1	1	1	1	1	1	1	100	90
5645	1	1	1	1	1	1	1	1	1	1	100	90
5646	1	1	1	1	1	1	1	1	1	1	100	90
5647	1	1	1	1	1	1	1	1	1	1	100	90
5648	1	1	1	1	1	1	1	1	1	1	100	90
5649	1	1	1	1	1	1	1	1	1	1	100	90
5650FH	1	1	1	1	1	1	1	1	1	1	100	90
5651	0	0	0	0	0	0	0	0	0	0	0	/

Note 1: The 99% channel bandwidth is 155.09MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = FH - FL = 5650MHz - 5490MHz = 180MHz.

Note 3: NII Detection Bandwidth Min. Limit (MHz): 155.09MHz. x 100% = 155.09MHz.



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8.4 Channel Availability Check Time Measurement

8.4.1 Limit and Test Procedure

Initial Channel Availability Check Time

The Initial Channel Availability Check Time tests that the UUT does not emit beacon, control, or data signals on the test Channel until the power-up sequence has been completed and the U-NII device checks for Radar Waveforms for one minute on the test Channel. This test does not use any Radar Waveforms and only needs to be performed one time.

- a) The U-NII devices will be powered on and be instructed to operate on the appropriate U-NII Channel that must incorporate DFS functions. At the same time the UUT is powered on, the spectrum analyzer will be set to zero span mode with a 3 MHz RBW and 3 MHz VBW on the Channel occupied by the radar (Chr) with a 2.5 minute sweep time. The spectrum analyzer's sweep will be started at the same time power is applied to the U-NII device.
- b) The UUT should not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle.
- c) Confirm that the UUT initiates transmission on the channel This measurement can be used to determine the length of the power-on cycle if it is not supplied by the manufacturer. If the spectrum analyzer sweep is started at the same time the UUT is powered on and the UUT does not begin transmissions until it has completed the cycle, the power-on time can be determined by comparing the two times.

Radar Burst at the Beginning of the Channel Availability Check Time

The steps below define the procedure to verify successful radar detection on the test Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB occurs at the beginning of the Channel Availability Check Time.

- a) The Radar Waveform generator and UUT are connected using the applicable test setup described in the sections on configuration for Conducted Tests (Figure 7-1) and the power of the UUT is switched off.
- b) The UUT is powered on at T_0 . T_1 denotes the instant when the UUT has completed its power-up sequence ($T_{\text{power_up}}$). The Channel Availability Check Time commences on Chr at instant T_1 and will end no sooner than $T_1 + T_{\text{ch_avail_check}}$.
- c) A single Burst of one of the Short Pulse Radar Types 0-4 will commence within a 6 second window starting at T_1 . An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
- d) Visual indication or measured results on the UUT of successful detection of the radar Burst will be recorded and reported. Observation of Chr for UUT emissions will continue for 2.5 minutes after the radar Burst has been generated.
- e) Verify that during the 2.5 minute measurement window no UUT transmissions occurred on Chr. The Channel Availability Check results will be recorded.

Radar Burst at the End of the Channel Availability Check Time

The steps below define the procedure to verify successful radar detection on the test Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1dB occurs at the end of the Channel Availability Check Time.



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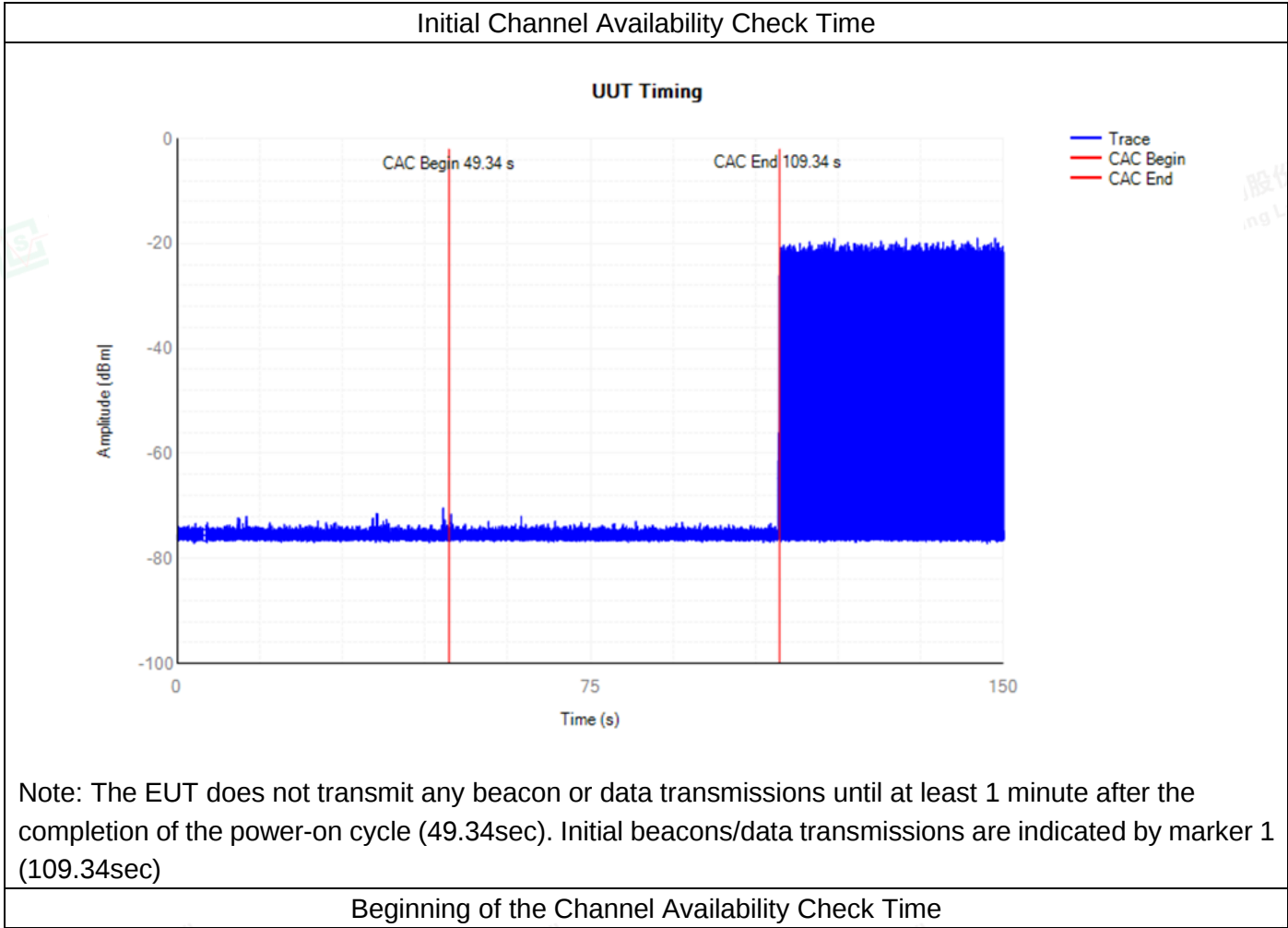
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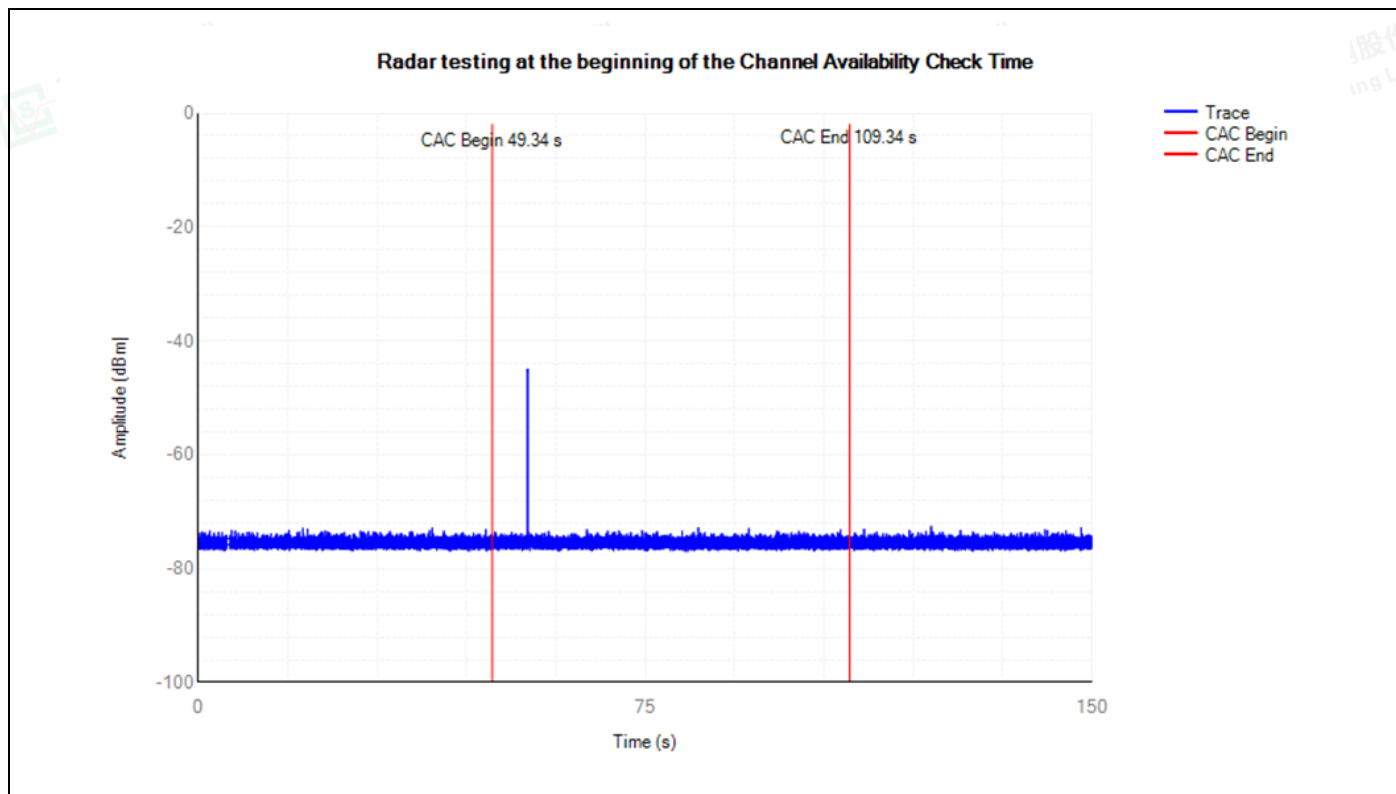


- a) The Radar Waveform generator and UUT are connected using the applicable test setup described in the sections for Conducted Tests (Figure 7-1) and the power of the UUT is switched off.
- b) The UUT is powered on at T_0 . T_1 denotes the instant when the UUT has completed its power-up sequence (T_{power_up}). The Channel Availability Check Time commences on Ch_r at instant T_1 and will end no sooner than $T_1 + T_{ch_avail_check}$.
- c) A single Burst of one of the Short Pulse Radar Types 0-4 will commence within a 6 second window starting at $T_1 + 54$ seconds. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
- d) Visual indication or measured results on the UUT of successful detection of the radar Burst will be recorded and reported. Observation of Ch_r for UUT emissions will continue for 2.5 minutes after the radar Burst has been generated.
- e) Verify that during the 2.5-minute measurement window no UUT transmissions occurred on Ch_r . The Channel Availability Check results will be recorded.

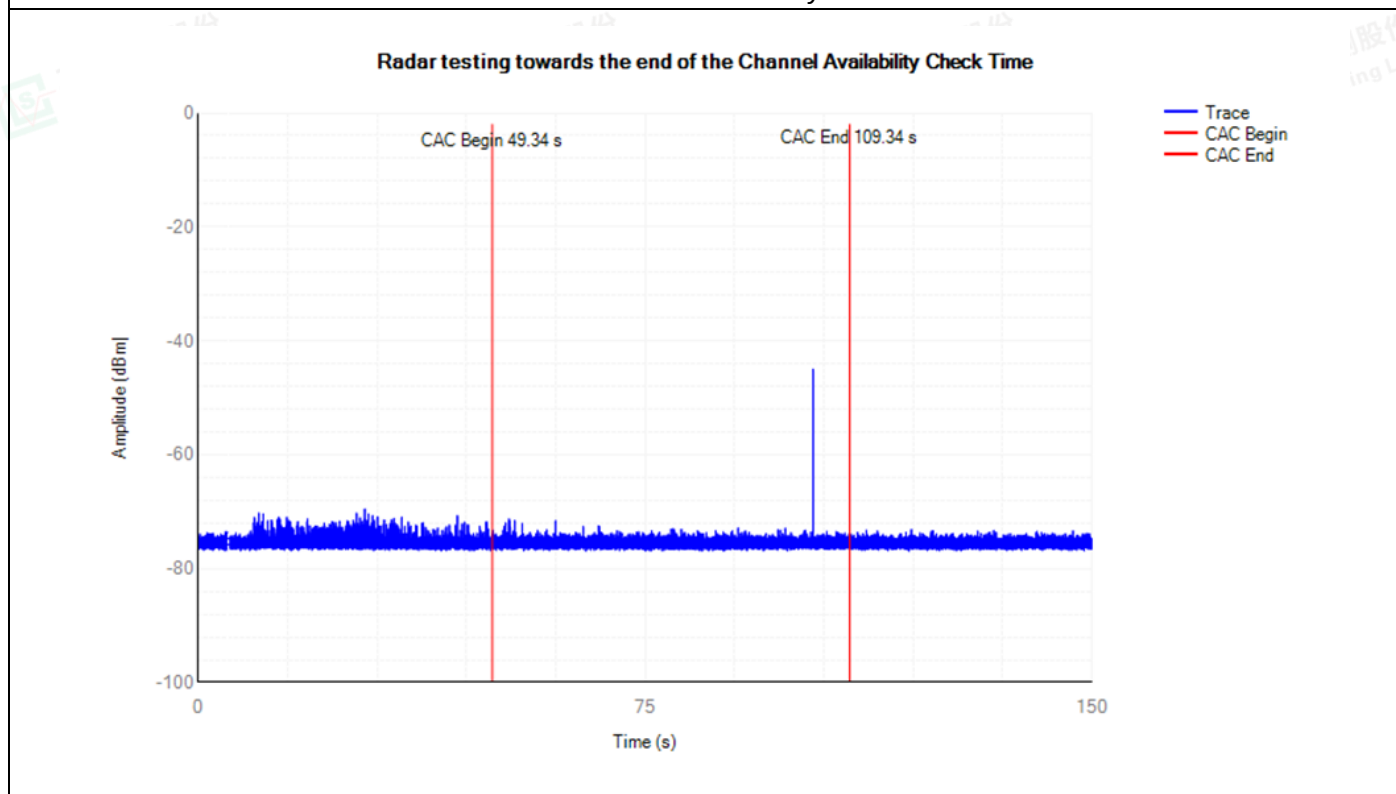
8.4.2 Test Result

Mode 802.11ax-HEW160 mode - 5570MHz





End of the Channel Availability Check Time



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8.5 In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period Measurement

8.5.1 Test Limit

The EUT has In-Service Monitoring function to continuously monitor the radar signals. If the radar is detected, must leave the channel (Shutdown). The Channel Move Time to cease all transmissions on the current channel upon detection of a Radar Waveform above the DFS Detection Threshold within 10 sec. The total duration of Channel Closing Transmission Time is 260ms, consisting of data signals and the aggregate of control signals, by a U-NII device during the Channel Move Time. The Non-Occupancy Period time is 30 minutes during which a Channel will not be utilized after a Radar Waveform is detected on that Channel.

8.5.2 Test Procedure

1. The test should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0.
2. When the radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device. A U-NII device operating as a Master Device will associate with the Client Device at Channel. Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test. At time T_0 the Radar Waveform generator sends a Burst of pulses for each of the radar types at Detection Threshold + 1dB.
3. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the EUT during the observation time (Channel Move Time).
4. Measurement of the aggregate duration of the Channel Closing Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (1.5ms) = S (12 \text{ sec}) / B (8000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is the sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C = N \times Dwell$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins showing a U-NII transmission and Dwell is the dwell time per bin.
5. Measure the EUT for more than 30 minutes following the channel close/move time to verify that the EUT does not resume any transmissions on this Channel.



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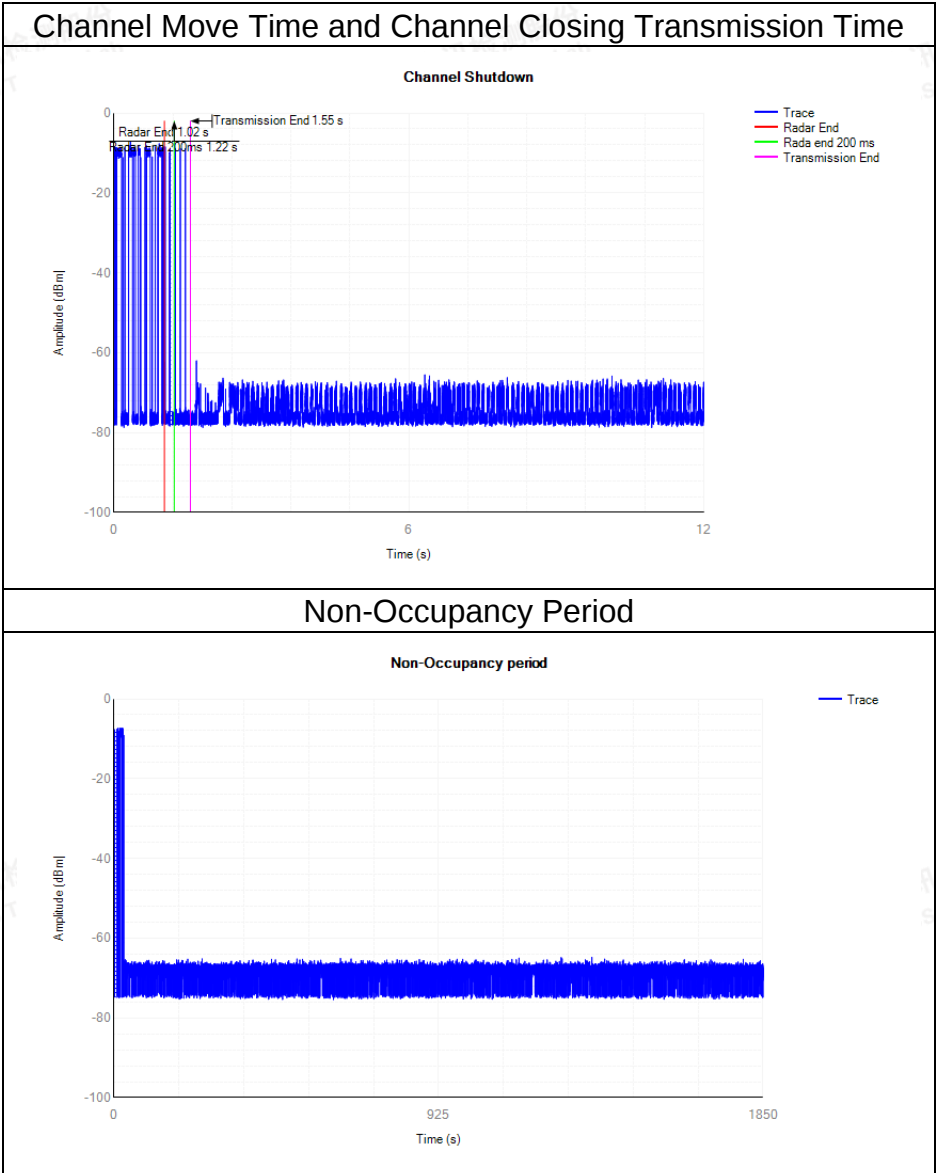
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8.5.3 Test Result

Mode 802.11ax-HEW160-5570MHz		
Parameter	Test Result	Limit
Channel Move Time (s)	0.53	<10
Channel Closing Transmission Time(ms)	5.2	<260ms
Close Transmission Time after 200ms	1.6	<60ms
Non-Occupancy Period (min)	≥30min	≥30min





8.6 Statistical Performance Check

8.6.1 Test Limit

The minimum percentage of successful detection requirements found in below table when a radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device (In- Service Monitoring).

Radar Type	Minimum Number of Trails	Detection Probability
1	30(15 of test A and 15 of test B)	$P_d \geq 60\%$
2	30	$P_d \geq 60\%$
3	30	$P_d \geq 60\%$
4	30	$P_d \geq 60\%$
Aggregate (Radar Types 1-4)	120	$P_d \geq 80\%$
5	30	$P_d \geq 80\%$
6	30	$P_d \geq 70\%$

Note: The percentage of successful detection is calculated by:
 $(\text{Total Waveform Detections} / \text{Total Waveform Trails}) * 100 = \text{Probability of Detection Radar Waveform}$
In addition an aggregate minimum percentage of successful detection across all Short Pulse Radar Types 1-4 is required and is calculated as follows: $(P_{d1} + P_{d2} + P_{d3} + P_{d4}) / 4$.

8.6.2 Test Procedure

1. Stream the channel loading test file from the Master Device to the Client Device on the test Channel for the entire period of the test.
2. At time T_0 the Radar Waveform generator sends the individual waveform for each of the Radar Types 1-6, at levels equal to the DFS Detection Threshold + 1dB, on the Operating Channel.
3. Observe the transmissions of the EUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Short Pulse Radar Types 0 to ensure detection occurs.
4. Observe the transmissions of the EUT at the end of the Burst on the Operating Channel for duration greater than 22 seconds for Long Pulse Radar Type 5 to ensure detection occurs.
5. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.
6. The Minimum number of trails, minimum percentage of successful detection and the average minimum percentage of successful detection are found in below table



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8.6.3 Test Result

IEEE 802.11ax HE160_5570MHz (wors case)

Trial #	Radar Type 1		Radar Type 2		Radar Type 3		Radar Type 4	
	Radar Frequency (MHz)	1=Detection 0=no Detection	Radar Frequency (MHz)	1=Detection 0=no Detection	Radar Frequency (MHz)	1=Detection 0=no Detection	Radar Frequency (MHz)	1=Detection 0=no Detection
0	5500	1	5492	1	5510	1	5498	1
1	5503	1	5499	0	5503	1	5496	1
2	5506	1	5493	1	5506	1	5493	1
3	5505	1	5497	1	5502	1	5500	1
4	5505	1	5496	1	5501	1	5496	1
5	5507	1	5500	1	5508	0	5498	0
6	5509	0	5502	1	5509	1	5492	1
7	5532	1	5501	1	5504	1	5500	1
8	5526	1	5503	0	5506	1	5505	1
9	5516	1	5506	1	5501	1	5503	1
10	5547	0	5507	1	5490	1	5510	1
11	5502	1	5509	1	5499	1	5513	1
12	5504	1	5500	1	5493	1	5512	1
13	5493	0	5496	1	5496	0	5508	0
14	5499	1	5497	1	5497	1	5507	1
15	5496	1	5495	1	5490	1	5505	1
16	5498	1	5505	0	5500	1	5492	1
17	5494	1	5504	1	5502	0	5493	1
18	5500	1	5502	1	5503	1	5502	1
19	5502	0	5510	1	5505	1	5501	1
20	5503	1	55014	1	5504	1	5500	1
21	5506	1	5503	0	5506	1	5493	1
22	5502	1	5501	1	5507	1	5496	1
23	5500	1	5505	1	5508	1	5492	1
24	5493	1	5500	1	5510	1	5502	1
25	5492	1	5491	1	5492	1	5500	0
26	5496	1	5493	1	5493	0	5503	1
27	5500	0	5497	0	5495	1	5506	1
28	5506	1	5500	1	5500	1	5504	1
29	5510	1	5502	1	5499	1	5501	1
Probability:	83.3		83.3		86.7		90.0	
Aggregate:	85.3							



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Radar Type 1 - Radar Waveform							Radar Type 2 - Radar Waveform						
Trial List							Trial List						
	Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)		Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
Download	0	Type 1	1.0	938.0	57	53468.0	Download	0	Type 2	3.2	179.0	26	4654.0
Download	1	Type 1	1.0	698.0	76	53048.0	Download	1	Type 2	1.1	207.0	23	4761.0
Download	2	Type 1	1.0	618.0	86	53148.0	Download	2	Type 2	2.1	230.0	24	5520.0
Download	3	Type 1	1.0	538.0	99	53262.0	Download	3	Type 2	4.8	200.0	29	5800.0
Download	4	Type 1	1.0	878.0	61	53558.0	Download	4	Type 2	3.9	214.0	28	5992.0
Download	5	Type 1	1.0	3066.0	18	55188.0	Download	5	Type 2	2.9	222.0	26	5772.0
Download	6	Type 1	1.0	638.0	83	52954.0	Download	6	Type 2	3.2	204.0	26	5304.0
Download	7	Type 1	1.0	918.0	58	53244.0	Download	7	Type 2	2.5	192.0	25	4800.0
Download	8	Type 1	1.0	838.0	63	52794.0	Download	8	Type 2	3.1	164.0	26	4264.0
Download	9	Type 1	1.0	858.0	62	53196.0	Download	9	Type 2	1.2	156.0	23	3588.0
Download	10	Type 1	1.0	798.0	67	53468.0	Download	10	Type 2	3.9	210.0	27	5670.0
Download	11	Type 1	1.0	718.0	74	53132.0	Download	11	Type 2	4.6	201.0	29	5829.0
Download	12	Type 1	1.0	578.0	92	53176.0	Download	12	Type 2	3.2	162.0	26	4212.0
Download	13	Type 1	1.0	598.0	89	53222.0	Download	13	Type 2	2.2	197.0	25	4925.0
Download	14	Type 1	1.0	558.0	95	53010.0	Download	14	Type 2	4.5	163.0	29	4727.0
Download	15	Type 1	1.0	2536.0	21	53256.0	Download	15	Type 2	3.0	203.0	26	5278.0
Download	16	Type 1	1.0	966.0	55	53130.0	Download	16	Type 2	5.0	168.0	29	4872.0
Download	17	Type 1	1.0	827.0	64	52928.0	Download	17	Type 2	2.4	217.0	25	5425.0
Download	18	Type 1	1.0	2501.0	22	55022.0	Download	18	Type 2	2.9	191.0	26	4966.0
Download	19	Type 1	1.0	2595.0	21	54495.0	Download	19	Type 2	2.3	166.0	25	4150.0
Download	20	Type 1	1.0	1114.0	48	53472.0	Download	20	Type 2	3.7	150.0	27	4050.0
Download	21	Type 1	1.0	1302.0	41	53382.0	Download	21	Type 2	2.2	176.0	25	4400.0
Download	22	Type 1	1.0	3045.0	18	54810.0	Download	22	Type 2	4.9	195.0	29	5655.0
Download	23	Type 1	1.0	1624.0	33	53592.0	Download	23	Type 2	2.9	202.0	26	5252.0
Download	24	Type 1	1.0	2878.0	19	54682.0	Download	24	Type 2	2.5	178.0	25	4450.0
Download	25	Type 1	1.0	1027.0	52	53404.0	Download	25	Type 2	1.1	206.0	23	4738.0
Download	26	Type 1	1.0	2485.0	22	54670.0	Download	26	Type 2	3.8	155.0	27	4185.0
Download	27	Type 1	1.0	1600.0	33	52800.0	Download	27	Type 2	4.7	157.0	29	4553.0
Download	28	Type 1	1.0	1172.0	46	53912.0	Download	28	Type 2	2.4	224.0	25	5600.0
Download	29	Type 1	1.0	1177.0	45	52965.0	Download	29	Type 2	4.2	159.0	28	4452.0



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Radar Type 3 - Radar Waveform							Radar Type 4 - Radar Waveform						
Trial List							Trial List						
	Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)		Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
Download	0	Type 3	8.2	355.0	17	6035.0	Download	0	Type 4	16.0	355.0	14	4970.0
Download	1	Type 3	6.1	487.0	16	7792.0	Download	1	Type 4	11.3	487.0	12	5844.0
Download	2	Type 3	7.1	344.0	16	5504.0	Download	2	Type 4	13.5	344.0	13	4472.0
Download	3	Type 3	9.8	288.0	18	5184.0	Download	3	Type 4	19.4	288.0	16	4608.0
Download	4	Type 3	8.9	230.0	18	4140.0	Download	4	Type 4	17.5	230.0	15	3450.0
Download	5	Type 3	7.9	432.0	17	7344.0	Download	5	Type 4	15.3	432.0	14	6048.0
Download	6	Type 3	8.2	207.0	17	3519.0	Download	6	Type 4	15.9	207.0	14	2898.0
Download	7	Type 3	7.5	443.0	17	7531.0	Download	7	Type 4	14.3	443.0	13	5759.0
Download	8	Type 3	8.1	439.0	17	7463.0	Download	8	Type 4	15.8	439.0	14	6146.0
Download	9	Type 3	6.2	223.0	16	3568.0	Download	9	Type 4	11.5	223.0	12	2676.0
Download	10	Type 3	8.9	208.0	18	3744.0	Download	10	Type 4	17.4	208.0	15	3120.0
Download	11	Type 3	9.6	463.0	18	8334.0	Download	11	Type 4	19.0	463.0	16	7408.0
Download	12	Type 3	8.2	441.0	17	7497.0	Download	12	Type 4	16.0	441.0	14	6174.0
Download	13	Type 3	7.2	323.0	16	5168.0	Download	13	Type 4	13.8	323.0	13	4199.0
Download	14	Type 3	9.5	297.0	18	5346.0	Download	14	Type 4	18.9	297.0	16	4752.0
Download	15	Type 3	8.0	412.0	17	7004.0	Download	15	Type 4	15.5	412.0	14	5788.0
Download	16	Type 3	10.0	324.0	18	5832.0	Download	16	Type 4	19.9	324.0	16	5184.0
Download	17	Type 3	7.4	271.0	17	4607.0	Download	17	Type 4	14.1	271.0	13	3523.0
Download	18	Type 3	7.9	349.0	17	5933.0	Download	18	Type 4	15.2	349.0	14	4886.0
Download	19	Type 3	7.3	409.0	16	6544.0	Download	19	Type 4	13.8	409.0	13	5317.0
Download	20	Type 3	8.7	373.0	18	6714.0	Download	20	Type 4	17.1	373.0	15	5595.0
Download	21	Type 3	7.2	254.0	16	4064.0	Download	21	Type 4	13.8	254.0	13	3302.0
Download	22	Type 3	9.9	274.0	18	4932.0	Download	22	Type 4	19.8	274.0	16	4384.0
Download	23	Type 3	7.9	278.0	17	4726.0	Download	23	Type 4	15.3	278.0	14	3892.0
Download	24	Type 3	7.5	317.0	17	5389.0	Download	24	Type 4	14.5	317.0	13	4121.0
Download	25	Type 3	6.1	260.0	16	4160.0	Download	25	Type 4	11.3	260.0	12	3120.0
Download	26	Type 3	8.8	211.0	18	3798.0	Download	26	Type 4	17.3	211.0	15	3165.0
Download	27	Type 3	9.7	272.0	18	4896.0	Download	27	Type 4	19.2	272.0	16	4362.0
Download	28	Type 3	7.4	264.0	17	4488.0	Download	28	Type 4	14.2	264.0	13	3432.0
Download	29	Type 3	9.2	284.0	18	5112.0	Download	29	Type 4	18.2	284.0	15	4260.0

Radar Type 5					
Trail #	Radar Frequency (MHz)	1=Detection 0=No Detection	Trail #	Radar Frequency (MHz)	1=Detection 0=No Detection
0	5500	1	15	5503.23	0
1	5500	1	16	5505.5	1
2	5500	1	17	5505.5	1
3	5500	1	18	5502.23	1
4	5500	1	19	5501.5	1
5	5500	1	20	5496.5	1
6	5500	1	21	5498.9	1
7	5500	1	22	5494.5	1
8	5500	0	23	5497.7	1
9	5500	1	24	5498.1	1
10	5503.9	0	25	5500.5	1
11	5505.1	1	26	5496.1	1
12	5502.7	1	27	5494.9	0
13	5501.5	1	28	5498.5	1
14	5504.7	1	29	5495.7	1
Detection Percentage (%)		86.7			



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Radar Type 5 - Radar Waveform_#0

Trial List										
	Trial Id	Radar Type	Number of Bursts	Burst Period (s)	Waveform Length (s)	Center Frequency (GHz)				
Download	0	Type 5	15	0.8000000	12.8000000	5.500000000				
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)		
	0	636185.0	77.8	13	2	1665.0	1477.0	-		
	1	32674.0	51.9	13	1	1074.0	-	-		
	2	226294.0	63.8	13	1	1584.0	-	-		
	3	417976.0	96.6	13	3	1682.0	1786.0	1843.0		
	4	611152.0	85.9	13	3	1795.0	1215.0	1729.0		
	5	8789.0	73.7	13	2	1198.0	1549.0	-		
	6	201917.0	77.2	13	2	1837.0	1819.0	-		
	7	395530.0	68.4	13	2	1587.0	1114.0	-		
	8	588564.0	76.7	13	2	2000.0	1155.0	-		
	9	783794.0	53.2	13	1	1147.0	-	-		
	10	177933.0	85.7	13	3	1433.0	1695.0	1394.0		
	11	370624.0	94.3	13	3	1670.0	1426.0	1935.0		
	12	564893.0	77.6	13	2	1294.0	1671.0	-		
	13	759583.0	65.7	13	1	1512.0	-	-		
	14	154262.0	93.5	13	3	1444.0	1130.0	1468.0		

Radar Type 5 - Radar Waveform_#1

Download	1	Type 5	8	1.5000000	12.8000000	5.500000000				
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)		
	0	653020.0	75.0	5	2	1880.0	1527.0	-		
	1	1015643.0	99.4	5	3	1401.0	1262.0	1257.0		
	2	1379398.0	67.4	5	2	1531.0	1403.0	-		
	3	245489.0	73.6	5	2	1449.0	1041.0	-		
	4	609113.0	65.9	5	1	1432.0	-	-		
	5	970852.0	83.8	5	3	1356.0	1292.0	1419.0		
	6	1335913.0	65.5	5	1	1543.0	-	-		
	7	200406.0	98.6	5	3	1548.0	1796.0	1728.0		

Radar Type 5 - Radar Waveform_#2

Download	2	Type 5	11	1.0909091	12.8000000	5.500000000				
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)		
	0	409565.0	73.8	9	2	1806.0	1538.0	-		
	1	673692.0	69.5	9	2	1117.0	1649.0	-		
	2	938562.0	51.9	9	1	1651.0	-	-		
	3	113209.0	84.6	9	3	1976.0	1032.0	1271.0		
	4	376726.0	95.4	9	3	1060.0	1903.0	1388.0		
	5	641212.0	68.0	9	2	1368.0	1351.0	-		
	6	903714.0	89.6	9	3	1338.0	1514.0	1573.0		
	7	80863.0	81.9	9	2	1022.0	1689.0	-		
	8	344067.0	88.3	9	3	1810.0	1330.0	1838.0		
	9	609331.0	53.7	9	1	1597.0	-	-		
	10	871542.0	91.3	9	3	1961.0	1106.0	1001.0		

Radar Type 5 - Radar Waveform_#3



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Download	3	Type 5	20	0.6000000	12.8000000	5.500000000				
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	26541.0	68.1	19	2	1339.0	1355.0	-	
		1	171821.0	58.7	19	1	1251.0	-	-	
		2	316229.0	75.3	19	2	1136.0	1640.0	-	
		3	461864.0	56.4	19	1	1753.0	-	-	
		4	8677.0	99.7	19	3	1196.0	1708.0	1159.0	
		5	153995.0	57.7	19	1	1013.0	-	-	
		6	299238.0	59.5	19	1	1072.0	-	-	
		7	443177.0	80.0	19	2	1482.0	1369.0	-	
		8	587671.0	82.0	19	2	1993.0	1197.0	-	
		9	135674.0	82.8	19	2	1883.0	1005.0	-	
		10	279928.0	88.0	19	3	1061.0	1928.0	1101.0	
		11	424279.0	93.2	19	3	1207.0	1907.0	1223.0	
		12	570132.0	70.4	19	2	1526.0	1360.0	-	
		13	117439.0	95.3	19	3	1171.0	1955.0	1775.0	
		14	262502.0	81.9	19	2	1690.0	1545.0	-	
		15	406573.0	98.5	19	3	1975.0	1169.0	1062.0	
		16	553328.0	65.0	19	1	1767.0	-	-	
		17	99799.0	85.4	19	3	1011.0	1637.0	1425.0	
		18	244095.0	91.6	19	3	1878.0	1445.0	1325.0	
		19	390012.0	67.3	19	2	1091.0	1218.0	-	

Radar Type 5 - Radar Waveform #4

Download	4	Type 5	17	0.7058624	12.8000000	5.500000000				
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	629614.0	67.9	16	2	1320.0	1133.0	-	
		1	96856.0	62.3	16	1	1957.0	-	-	
		2	267719.0	53.3	16	1	1592.0	-	-	
		3	436784.0	90.0	16	3	1900.0	1153.0	1346.0	
		4	608289.0	77.1	16	2	1166.0	1646.0	-	
		5	75610.0	83.9	16	3	1278.0	1232.0	1459.0	
		6	245638.0	89.1	16	3	1240.0	1384.0	1939.0	
		7	416355.0	81.8	16	2	1833.0	1676.0	-	
		8	588736.0	50.3	16	1	1075.0	-	-	
		9	54571.0	87.1	16	3	1116.0	1996.0	1756.0	
		10	225175.0	71.3	16	2	1225.0	1815.0	-	
		11	394825.0	97.5	16	3	1884.0	1465.0	1132.0	
		12	565361.0	90.6	16	3	1561.0	1040.0	1354.0	
		13	33643.0	86.3	16	3	1596.0	1183.0	1792.0	
		14	203957.0	97.6	16	3	1365.0	1073.0	1361.0	
		15	373812.0	84.7	16	3	1021.0	1718.0	1854.0	
		16	544060.0	99.7	16	3	1150.0	1244.0	1988.0	

Radar Type 5 - Radar Waveform #5

Download	5	Type 5	14	0.8571429	12.8000000	5.500000000				
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	15438.0	92.9	12	3	1085.0	1564.0	1407.0	
		1	222486.0	67.7	12	2	1744.0	1747.0	-	
		2	430731.0	65.8	12	1	1092.0	-	-	
		3	637784.0	56.3	12	1	1851.0	-	-	
		4	845342.0	53.7	12	1	1727.0	-	-	
		5	196720.0	83.5	12	3	1679.0	1930.0	1025.0	
		6	404955.0	65.8	12	1	1519.0	-	-	
		7	610711.0	85.9	12	3	1134.0	1034.0	1808.0	
		8	818057.0	76.3	12	2	1606.0	1926.0	-	
		9	171459.0	81.5	12	2	1891.0	1714.0	-	
		10	377969.0	89.4	12	3	1310.0	1594.0	1827.0	
		11	586875.0	63.4	12	1	1568.0	-	-	
		12	792834.0	69.6	12	2	1307.0	1925.0	-	
		13	146044.0	74.5	12	2	1264.0	1846.0	-	

Radar Type 5 - Radar Waveform #6



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Download	6	Type 5	15	0.8000000	12.8000000	5.500000000			
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
		0	329022.0	96.6	13	3	1182.0	1609.0	1581.0
		1	521718.0	96.7	13	3	1829.0	1799.0	1154.0
		2	714222.0	86.5	13	3	1923.0	1396.0	1865.0
		3	112450.0	73.3	13	2	1908.0	1318.0	-
		4	306283.0	55.8	13	1	1688.0	-	-
		5	500239.0	55.4	13	1	1145.0	-	-
		6	690932.0	85.3	13	3	1336.0	1504.0	1820.0
		7	88645.0	79.4	13	2	1344.0	1893.0	-
		8	282508.0	65.7	13	1	1476.0	-	-
		9	475842.0	68.6	13	2	1008.0	1028.0	-
		10	667887.0	77.7	13	2	1972.0	1835.0	-
		11	64845.0	79.6	13	2	1882.0	1331.0	-
		12	257755.0	94.9	13	3	1830.0	1070.0	1349.0
		13	452335.0	61.4	13	1	1451.0	-	-
		14	643395.0	90.6	13	3	1233.0	1562.0	1887.0

Radar Type 5 - Radar Waveform #7

Download	7	Type 5	12	1.0000000	12.8000000	5.500000000			
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
		0	51446.0	52.6	10	1	1210.0	-	-
		1	292696.0	84.1	10	3	1314.0	1725.0	1529.0
		2	533989.0	97.7	10	3	1139.0	1868.0	1805.0
		3	775564.0	97.3	10	3	1341.0	1446.0	1755.0
		4	21542.0	98.8	10	3	1544.0	1386.0	1302.0
		5	263385.0	72.2	10	2	1771.0	1184.0	-
		6	505581.0	67.6	10	2	1175.0	1027.0	-
		7	747058.0	75.7	10	2	1026.0	1871.0	-
		8	989976.0	60.9	10	1	1798.0	-	-
		9	234024.0	64.2	10	1	1138.0	-	-
		10	475207.0	78.8	10	2	1784.0	1604.0	-
		11	715825.0	87.5	10	3	1511.0	1712.0	1683.0

Radar Type 5 - Radar Waveform #8

Download	8	Type 5	14	0.8571429	12.0000000	5.500000000			
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
		0	823112.0	54.1	13	1	1415.0	-	-
		1	174965.0	50.7	13	1	1221.0	-	-
		2	382216.0	52.3	13	1	1974.0	-	-
		3	587395.0	99.8	13	3	1558.0	1696.0	1949.0
		4	796897.0	68.4	13	2	1014.0	1099.0	-
		5	149042.0	80.8	13	2	1736.0	1505.0	-
		6	356750.0	62.5	13	1	1778.0	-	-
		7	563824.0	74.8	13	2	1149.0	1204.0	-
		8	772314.0	50.8	13	1	1049.0	-	-
		9	123796.0	54.0	13	1	1417.0	-	-
		10	331215.0	63.0	13	1	1730.0	-	-
		11	537402.0	91.8	13	3	1143.0	1270.0	1347.0
		12	744805.0	79.3	13	2	1274.0	1992.0	-
		13	98172.0	64.3	13	1	1937.0	-	-

Radar Type 5 - Radar Waveform #9

Download	9	Type 5	8	1.5000000	12.8000000	5.500000000			
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
		0	535615.0	63.4	6	1	1043.0	-	-
		1	898668.0	52.0	6	1	1863.0	-	-
		2	1259235.0	97.2	6	3	1973.0	1605.0	1583.0
		3	127106.0	78.7	6	2	1466.0	1743.0	-
		4	490358.0	74.2	6	2	1280.0	1219.0	-
		5	852409.0	88.7	6	3	1293.0	1934.0	1273.0
		6	1217152.0	54.3	6	1	1991.0	-	-
		7	82296.0	95.4	6	3	1580.0	1555.0	1791.0

Radar Type 5 - Radar Waveform #10



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Download	10	Type 5	17	0.7058824	12.8000000	5.503900000				
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	209249.0	73.7	16	2	1208.0	1497.0	-	
		1	378386.0	97.4	16	3	1942.0	1754.0	1613.0	
		2	548411.0	91.7	16	3	1999.0	1702.0	1462.0	
		3	17733.0	66.2	16	1	1393.0	-	-	
		4	187952.0	70.8	16	2	1968.0	1821.0	-	
		5	359277.0	52.3	16	1	1740.0	-	-	
		6	528886.0	78.9	16	2	1308.0	1984.0	-	
		7	700166.0	70.9	16	2	1050.0	1358.0	-	
		8	167197.0	75.6	16	2	1437.0	1430.0	-	
		9	338262.0	59.1	16	1	1697.0	-	-	
		10	508324.0	77.0	16	2	1397.0	1304.0	-	
		11	678689.0	67.9	16	2	1803.0	1083.0	-	
		12	146031.0	81.2	16	2	1720.0	1932.0	-	
		13	316923.0	78.7	16	2	1247.0	1121.0	-	
		14	488056.0	63.3	16	1	1634.0	-	-	
		15	657326.0	68.9	16	2	1849.0	1423.0	-	
		16	125509.0	59.3	16	1	1093.0	-	-	

Radar Type 5 - Radar Waveform #11

Download	11	Type 5	19	0.6315789	12.8000000	5.505100000				
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	263736.0	98.9	19	3	1381.0	1680.0	1488.0	
		1	416459.0	82.3	19	2	1716.0	1855.0	-	
		2	567902.0	86.7	19	3	1211.0	1400.0	1919.0	
		3	92979.0	89.7	19	3	1861.0	1068.0	1282.0	
		4	245155.0	98.6	19	3	1507.0	1194.0	1461.0	
		5	397609.0	71.1	19	2	1921.0	1789.0	-	
		6	551431.0	55.9	19	1	1947.0	-	-	
		7	74413.0	67.9	19	2	1350.0	1372.0	-	
		8	226559.0	84.4	19	3	1203.0	1107.0	1443.0	
		9	380056.0	58.8	19	1	1715.0	-	-	
		10	533408.0	65.6	19	1	1017.0	-	-	
		11	55547.0	78.5	19	2	1911.0	1704.0	-	
		12	207876.0	82.3	19	2	1845.0	1686.0	-	
		13	359771.0	90.1	19	3	1938.0	1071.0	1266.0	
		14	511297.0	90.2	19	3	1989.0	1089.0	1950.0	
		15	36803.0	83.1	19	2	1943.0	1406.0	-	
		16	189652.0	58.8	19	1	1742.0	-	-	
		17	341809.0	77.0	19	2	1187.0	1657.0	-	
		18	495737.0	55.0	19	1	1012.0	-	-	

Radar Type 5 - Radar Waveform #12

Download	12	Type 5	15	0.8000000	12.8000000	5.502700000				
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	22911.0	58.1	13	1	1929.0	-	-	
		1	216473.0	52.1	13	1	1910.0	-	-	
		2	410004.0	59.9	13	1	1971.0	-	-	
		3	603671.0	60.2	13	1	1812.0	-	-	
		4	794160.0	95.9	13	3	1399.0	1906.0	1608.0	
		5	192251.0	79.9	13	2	1626.0	1859.0	-	
		6	385590.0	78.5	13	2	1238.0	1917.0	-	
		7	579862.0	53.8	13	1	1763.0	-	-	
		8	773423.0	64.7	13	1	1800.0	-	-	
		9	168898.0	61.4	13	1	1390.0	-	-	
		10	361606.0	83.2	13	2	1692.0	1858.0	-	
		11	553866.0	84.7	13	3	1533.0	1677.0	1638.0	
		12	747241.0	88.7	13	3	1703.0	1528.0	1058.0	
		13	144710.0	78.3	13	2	1258.0	1951.0	-	
		14	337856.0	69.3	13	2	1731.0	1717.0	-	

Radar Type 5 - Radar Waveform #13



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Download	13	Type 5	12	1.0000000	12.0000000	5.501500000				
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	664275.0	75.3	10	2	1994.0	1612.0	-	
		1	907886.0	56.3	10	1	1456.0	-	-	
		2	151316.0	67.7	10	2	1617.0	1185.0	-	
		3	393746.0	55.6	10	1	1337.0	-	-	
		4	635093.0	75.2	10	2	1421.0	1267.0	-	
		5	876993.0	76.3	10	2	1359.0	1305.0	-	
		6	121278.0	85.7	10	3	1547.0	1362.0	1924.0	
		7	362696.0	98.4	10	3	1873.0	1550.0	1249.0	
		8	604342.0	86.4	10	3	1779.0	1439.0	1046.0	
		9	846453.0	93.6	10	3	1059.0	1031.0	1452.0	
		10	91871.0	63.3	10	1	1328.0	-	-	
		11	333050.0	92.4	10	3	1412.0	1673.0	1322.0	
Radar Type 5 - Radar Waveform #14										
Download	14	Type 5	19	0.6315789	12.8000000	5.504700000				
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	361323.0	93.3	18	3	1983.0	1912.0	1535.0	
		1	515261.0	69.1	18	2	1102.0	1794.0	-	
		2	39025.0	86.9	18	3	1044.0	1152.0	1148.0	
		3	190900.0	84.9	18	3	1894.0	1948.0	1118.0	
		4	343941.0	72.3	18	2	1094.0	1916.0	-	
		5	497624.0	51.7	18	1	1447.0	-	-	
		6	20319.0	58.3	18	1	1429.0	-	-	
		7	172999.0	60.8	18	1	1979.0	-	-	
		8	325872.0	57.1	18	1	1641.0	-	-	
		9	475841.0	88.9	18	3	1886.0	1964.0	1489.0	
		10	1489.0	72.0	18	2	1909.0	1297.0	-	
		11	153647.0	90.9	18	3	1261.0	1566.0	1370.0	
		12	307096.0	59.8	18	1	1552.0	-	-	
		13	458804.0	70.0	18	2	1759.0	1291.0	-	
		14	610798.0	67.2	18	2	1625.0	1881.0	-	
		15	134759.0	91.2	18	3	1382.0	1832.0	1661.0	
		16	288306.0	56.5	18	1	1483.0	-	-	
		17	441296.0	51.2	18	1	1237.0	-	-	
		18	592780.0	74.1	18	2	1471.0	1245.0	-	
Radar Type 5 - Radar Waveform #15										
Download	15	Type 5	14	0.8571429	12.8000000	5.502300000				
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	158286.0	76.9	12	2	1110.0	1140.0	-	
		1	366024.0	50.2	12	1	1316.0	-	-	
		2	573452.0	62.9	12	1	1520.0	-	-	
		3	780619.0	64.7	12	1	1902.0	-	-	
		4	132455.0	83.8	12	3	1410.0	1097.0	1621.0	
		5	340207.0	65.4	12	1	1944.0	-	-	
		6	548208.0	53.2	12	1	1024.0	-	-	
		7	755333.0	51.7	12	1	1603.0	-	-	
		8	107117.0	78.7	12	2	1804.0	1168.0	-	
		9	314500.0	72.4	12	2	1030.0	1343.0	-	
		10	522447.0	53.8	12	1	1327.0	-	-	
		11	728517.0	73.6	12	2	1524.0	1553.0	-	
		12	81611.0	66.7	12	2	1722.0	1122.0	-	
		13	288948.0	82.5	12	2	1404.0	1019.0	-	
Radar Type 5 - Radar Waveform #16										



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Download	16	Type 5	20	0.6000000	12.8000000	5.505500000				
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	345766.0	87.6	20	3	1565.0	1055.0	1840.0	
		1	490019.0	85.2	20	3	1735.0	1541.0	1408.0	
		2	39073.0	84.8	20	3	1534.0	1889.0	1463.0	
		3	183923.0	77.9	20	2	1749.0	1460.0	-	
		4	328777.0	76.5	20	2	1518.0	1485.0	-	
		5	474728.0	60.9	20	1	1540.0	-	-	
		6	21394.0	83.0	20	2	1080.0	1010.0	-	
		7	165992.0	80.4	20	2	1824.0	1752.0	-	
		8	310973.0	67.5	20	2	1764.0	1181.0	-	
		9	456884.0	62.1	20	1	1495.0	-	-	
		10	3515.0	86.4	20	3	1773.0	1966.0	1263.0	
		11	147928.0	84.3	20	3	1593.0	1188.0	1788.0	
		12	293225.0	76.9	20	2	1226.0	1537.0	-	
		13	436922.0	95.8	20	3	1192.0	1298.0	1844.0	
		14	584015.0	55.2	20	1	1644.0	-	-	
		15	130832.0	59.0	20	1	1402.0	-	-	
		16	274684.0	94.5	20	3	1296.0	1700.0	1283.0	
		17	418579.0	91.9	20	3	1970.0	1978.0	1165.0	
		18	563464.0	85.2	20	3	1732.0	1551.0	1189.0	
		19	112787.0	69.5	20	2	1038.0	1224.0	-	

Radar Type 5 - Radar Waveform #17

Download	17	Type 5	12	1.0000000	12.8000000	5.501500000				
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	429224.0	86.4	10	3	1259.0	1918.0	1455.0	
		1	670241.0	92.2	10	3	1598.0	1719.0	1895.0	
		2	912880.0	80.4	10	2	1816.0	1899.0	-	
		3	158603.0	54.3	10	1	1335.0	-	-	
		4	400824.0	53.1	10	1	1303.0	-	-	
		5	641915.0	69.4	10	2	1503.0	1546.0	-	
		6	883823.0	69.1	10	2	1279.0	1639.0	-	
		7	128373.0	100.0	10	3	1375.0	1438.0	1595.0	
		8	370379.0	79.6	10	2	1239.0	1705.0	-	
		9	611194.0	88.4	10	3	1374.0	1579.0	1623.0	
		10	855685.0	53.3	10	1	1016.0	-	-	
		11	98897.0	65.3	10	1	1709.0	-	-	

Radar Type 5 - Radar Waveform #18

Download	18	Type 5	14	0.8571429	12.8000000	5.502300000				
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	292143.0	55.3	12	1	1920.0	-	-	
		1	499633.0	58.3	12	1	1797.0	-	-	
		2	706377.0	72.3	12	2	1610.0	1039.0	-	
		3	58989.0	84.8	12	3	1131.0	1761.0	1721.0	
		4	266161.0	82.5	12	2	1875.0	1431.0	-	
		5	474469.0	63.3	12	1	1095.0	-	-	
		6	680544.0	80.0	12	2	1119.0	1913.0	-	
		7	33519.0	90.3	12	3	1660.0	1853.0	1123.0	
		8	240319.0	91.1	12	3	1539.0	1783.0	1172.0	
		9	447400.0	96.6	12	3	1525.0	1036.0	1385.0	
		10	654516.0	82.7	12	2	1710.0	1990.0	-	
		11	8083.0	50.7	12	1	1234.0	-	-	
		12	215435.0	78.4	12	2	1047.0	1109.0	-	
		13	421325.0	99.5	12	3	1299.0	1965.0	1869.0	

Radar Type 5 - Radar Waveform #19



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Download	19	Type 5	12	1.0000000	12.8000000	5.501500000				
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	733725.0	88.6	10	3	1501.0	1067.0	1927.0	
		1	977882.0	57.4	10	1	1723.0	-	-	
		2	221197.0	96.6	10	3	1086.0	1658.0	1324.0	
		3	462915.0	69.7	10	2	1751.0	1945.0	-	
		4	705071.0	77.9	10	2	1642.0	1317.0	-	
		5	947823.0	62.0	10	1	1866.0	-	-	
		6	191373.0	88.4	10	3	1997.0	1077.0	1366.0	
		7	432561.0	97.3	10	3	1790.0	1896.0	1367.0	
		8	674004.0	96.2	10	3	1391.0	1787.0	1672.0	
		9	915842.0	95.4	10	3	1020.0	1892.0	1414.0	
		10	162176.0	54.8	10	1	1084.0	-	-	
		11	403553.0	80.4	10	2	1850.0	1436.0	-	

Radar Type 5 - Radar Waveform #20

Download	20	Type 5	16	0.7500000	12.8000000	5.496500000				
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	483470.0	74.7	15	2	1619.0	1611.0	-	
		1	666072.0	57.1	15	1	1560.0	-	-	
		2	98810.0	91.9	15	3	1392.0	1475.0	1276.0	
		3	279914.0	83.1	15	2	1809.0	1772.0	-	
		4	462536.0	50.7	15	1	1003.0	-	-	
		5	642324.0	79.2	15	2	1574.0	1600.0	-	
		6	76831.0	58.7	15	1	1186.0	-	-	
		7	257785.0	71.0	15	2	1521.0	1567.0	-	
		8	438554.0	79.0	15	2	1777.0	1960.0	-	
		9	620397.0	68.5	15	2	1284.0	1428.0	-	
		10	54310.0	73.5	15	2	1904.0	1352.0	-	
		11	235506.0	70.5	15	2	1864.0	1115.0	-	
		12	417036.0	76.6	15	2	1045.0	1300.0	-	
		13	597974.0	81.2	15	2	1160.0	1675.0	-	
		14	32086.0	61.8	15	1	1277.0	-	-	
		15	212751.0	94.9	15	3	1450.0	1206.0	1860.0	

Radar Type 5 - Radar Waveform #21

Download	21	Type 5	12	1.0000000	12.8000000	5.498900000				
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	526149.0	78.5	9	2	1653.0	1698.0	-	
		1	767135.0	89.8	9	3	1174.0	1962.0	1167.0	
		2	12955.0	59.4	9	1	1982.0	-	-	
		3	254612.0	79.6	9	2	1633.0	1890.0	-	
		4	496588.0	76.0	9	2	1112.0	1811.0	-	
		5	739728.0	53.6	9	1	1144.0	-	-	
		6	980872.0	80.9	9	2	1220.0	1053.0	-	
		7	225249.0	61.6	9	1	1724.0	-	-	
		8	467279.0	53.4	9	1	1901.0	-	-	
		9	709720.0	59.9	9	1	1379.0	-	-	
		10	951847.0	60.4	9	1	1453.0	-	-	
		11	194839.0	91.4	9	3	1768.0	1726.0	1227.0	

Radar Type 5 - Radar Waveform #22



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Download	22	Type 5	20	0.6000000	12.8000000	5.494500000			
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
		0	261858.0	77.0	20	2	1191.0	1363.0	-
		1	407646.0	58.1	20	1	1248.0	-	-
		2	552319.0	62.1	20	1	1836.0	-	-
		3	99107.0	76.9	20	2	1334.0	1236.0	-
		4	243514.0	80.0	20	2	1914.0	1852.0	-
		5	389464.0	52.0	20	1	1701.0	-	-
		6	531093.0	88.6	20	3	1693.0	1995.0	1905.0
		7	81159.0	72.9	20	2	1922.0	1387.0	-
		8	225245.0	98.5	20	3	1839.0	1746.0	1389.0
		9	371906.0	57.9	20	1	1193.0	-	-
		10	514197.0	95.9	20	3	1659.0	1870.0	1066.0
		11	63561.0	53.5	20	1	1162.0	-	-
		12	207510.0	92.0	20	3	1745.0	1654.0	1458.0
		13	353638.0	57.3	20	1	1834.0	-	-
		14	497515.0	70.5	20	2	1684.0	1586.0	-
		15	45553.0	70.0	20	2	1042.0	1664.0	-
		16	189821.0	84.0	20	3	1765.0	1630.0	1176.0
		17	335330.0	76.1	20	2	1557.0	1057.0	-
		18	478825.0	93.2	20	3	1985.0	1018.0	1340.0
		19	27594.0	96.8	20	3	1760.0	1614.0	1817.0

Radar Type 5 - Radar Waveform #23

Download	23	Type 5	14	0.8571429	12.8000000	5.497700000			
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
		0	247117.0	50.1	12	1	1841.0	-	-
		1	453362.0	93.5	12	3	1590.0	1081.0	1413.0
		2	660875.0	68.8	12	2	1707.0	1577.0	-
		3	14140.0	56.3	12	1	1056.0	-	-
		4	220734.0	86.0	12	3	1953.0	1108.0	1987.0
		5	428367.0	75.2	12	2	1572.0	1536.0	-
		6	636681.0	54.4	12	1	1517.0	-	-
		7	843157.0	71.1	12	2	1329.0	1243.0	-
		8	195585.0	76.2	12	2	1940.0	1770.0	-
		9	403231.0	80.2	12	2	1098.0	1209.0	-
		10	610202.0	79.7	12	2	1588.0	1214.0	-
		11	815229.0	90.9	12	3	1615.0	1862.0	1601.0
		12	170267.0	68.7	12	2	1377.0	1441.0	-
		13	377306.0	67.4	12	2	1872.0	1313.0	-

Radar Type 5 - Radar Waveform #24

Download	24	Type 5	13	0.9230769	12.8000000	5.498100000			
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
		0	628071.0	94.0	11	3	1643.0	1748.0	1941.0
		1	853391.0	70.8	11	2	1177.0	1201.0	-
		2	156223.0	56.3	11	1	1006.0	-	-
		3	378734.0	96.7	11	3	1230.0	1163.0	1332.0
		4	601331.0	90.6	11	3	1217.0	1582.0	1498.0
		5	825462.0	74.5	11	2	1569.0	1281.0	-
		6	128285.0	92.6	11	3	1065.0	1669.0	1222.0
		7	351161.0	89.0	11	3	1493.0	1135.0	1380.0
		8	573425.0	96.5	11	3	1607.0	1822.0	1602.0
		9	798431.0	70.5	11	2	1141.0	1178.0	-
		10	100737.0	94.0	11	3	1009.0	1629.0	1956.0
		11	324661.0	55.8	11	1	1290.0	-	-
		12	546278.0	87.7	11	3	1435.0	1963.0	1164.0

Radar Type 5 - Radar Waveform #25



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Download	25	Type 5	8	1.5000000	12.8000000	5.500500000				
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	1253842.0	68.6	5	2	1306.0	1161.0	-	
		1	119486.0	83.1	5	2	1420.0	1315.0	-	
		2	482958.0	60.9	5	1	1687.0	-	-	
		3	845641.0	77.7	5	2	1776.0	1158.0	-	
		4	1208428.0	77.4	5	2	1793.0	1510.0	-	
		5	74748.0	66.8	5	2	1576.0	1323.0	-	
		6	438300.0	63.7	5	1	1333.0	-	-	
		7	800152.0	91.2	5	3	1409.0	1681.0	1275.0	

Radar Type 5 - Radar Waveform #26

Download	26	Type 5	17	0.7058824	12.8000000	5.496100000				
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	545865.0	83.6	16	3	1632.0	1195.0	1000.0	
		1	14067.0	89.4	16	3	1173.0	1627.0	1656.0	
		2	184953.0	55.8	16	1	1532.0	-	-	
		3	353759.0	90.9	16	3	1981.0	1554.0	1998.0	
		4	526388.0	54.7	16	1	1825.0	-	-	
		5	694806.0	97.7	16	3	1734.0	1202.0	1250.0	
		6	163568.0	67.5	16	2	1571.0	1434.0	-	
		7	333410.0	96.7	16	3	1589.0	1469.0	1268.0	
		8	504006.0	68.3	16	2	1750.0	1954.0	-	
		9	675297.0	78.3	16	2	1591.0	1082.0	-	
		10	142890.0	55.0	16	1	1427.0	-	-	
		11	312479.0	84.9	16	3	1129.0	1936.0	1199.0	
		12	482953.0	74.6	16	2	1959.0	1856.0	-	
		13	655022.0	63.3	16	1	1885.0	-	-	
		14	121457.0	99.8	16	3	1035.0	1515.0	1120.0	
		15	292606.0	63.6	16	1	1647.0	-	-	
		16	461322.0	87.3	16	3	1931.0	1051.0	1831.0	

Radar Type 5 - Radar Waveform #27

Download	27	Type 5	19	0.6315789	12.8000000	5.494900000				
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	565136.0	85.6	19	3	1946.0	1078.0	1015.0	
		1	89970.0	68.6	19	2	1029.0	1780.0	-	
		2	243121.0	54.2	19	1	1111.0	-	-	
		3	396034.0	61.2	19	1	1104.0	-	-	
		4	546225.0	97.1	19	3	1157.0	1969.0	1100.0	
		5	70998.0	98.3	19	3	1142.0	1699.0	1622.0	
		6	224093.0	62.4	19	1	1655.0	-	-	
		7	376127.0	80.2	19	2	1126.0	1769.0	-	
		8	527806.0	87.5	19	3	1216.0	1448.0	1179.0	
		9	52247.0	85.8	19	3	1847.0	1348.0	1472.0	
		10	204582.0	88.1	19	3	1023.0	1124.0	1631.0	
		11	357941.0	65.3	19	1	1848.0	-	-	
		12	510977.0	52.5	19	1	1470.0	-	-	
		13	33698.0	52.3	19	1	1312.0	-	-	
		14	186023.0	74.1	19	2	1915.0	1200.0	-	
		15	339327.0	54.9	19	1	1479.0	-	-	
		16	491053.0	76.2	19	2	1376.0	1502.0	-	
		17	14858.0	60.4	19	1	1758.0	-	-	
		18	167387.0	81.5	19	2	1491.0	1103.0	-	

Radar Type 5 - Radar Waveform #28



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Download	28	Type 5	12	1.0000000	12.8000000	5.498500000				
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	507709.0	50.5	10	1	1857.0	-	-	
		1	750249.0	55.7	10	1	1246.0	-	-	
		2	989003.0	85.8	10	3	1774.0	1002.0	1967.0	
		3	235634.0	76.9	10	2	1125.0	1474.0	-	
		4	477675.0	75.1	10	2	1254.0	1052.0	-	
		5	718312.0	92.3	10	3	1180.0	1486.0	1492.0	
		6	960895.0	78.1	10	2	1301.0	1757.0	-	
		7	205370.0	92.2	10	3	1898.0	1252.0	1713.0	
		8	446940.0	89.0	10	3	1260.0	1706.0	1411.0	
		9	689225.0	70.9	10	2	1578.0	1620.0	-	
		10	932305.0	63.1	10	1	1782.0	-	-	
		11	176231.0	55.3	10	1	1522.0	-	-	

Radar Type 5 - Radar Waveform #29

Download	29	Type 5	18	0.6666667	12.8000000	5.495700000				
		Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)	
		0	277485.0	83.4	17	3	1454.0	1205.0	1801.0	
		1	437880.0	97.3	17	3	1319.0	1826.0	1635.0	
		2	598445.0	90.4	17	3	1079.0	1986.0	1674.0	
		3	97088.0	91.8	17	3	1563.0	1151.0	1802.0	
		4	257251.0	98.2	17	3	1876.0	1977.0	1766.0	
		5	419893.0	59.5	17	1	1952.0	-	-	
		6	580724.0	80.0	17	2	1253.0	1137.0	-	
		7	77366.0	86.5	17	3	1054.0	1128.0	1828.0	
		8	238032.0	91.1	17	3	1105.0	1599.0	1442.0	
		9	398605.0	93.5	17	3	1867.0	1373.0	1087.0	
		10	562025.0	60.7	17	1	1033.0	-	-	
		11	57684.0	67.2	17	2	1288.0	1405.0	-	
		12	219083.0	61.8	17	1	1585.0	-	-	
		13	379234.0	79.4	17	2	1933.0	1667.0	-	
		14	540896.0	81.4	17	2	1096.0	1464.0	-	
		15	37916.0	65.7	17	1	1496.0	-	-	
		16	198794.0	76.0	17	2	1733.0	1255.0	-	
		17	359754.0	81.0	17	2	1326.0	1668.0	-	



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Radar Type 6			
Trail #	1=Detection 0=No Detection	Trail #	1=Detection 0=No Detection
0	1	15	1
1	1	16	1
2	1	17	0
3	1	18	1
4	0	19	1
5	1	20	1
6	1	21	1
7	1	22	1
8	1	23	0
9	0	24	1
10	1	25	1
11	1	26	1
12	1	27	1
13	1	28	0
14	1	29	1
Detection Percentage (%)		83.3	





Type 6 Radar Waveform_#0

Trial List								
	Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (us)	Visible Frequency Number
Download	0	Type 6	1.0	333.3	9	0.3333	300.0000000	32
		Frequency List (MHz)	0	1	2	3	4	
		0	5364	5717	5334	5705	5549	
		5	5312	5280	5635	5503	5570	
		10	5347	5508	5292	5447	5588	
		15	5421	5638	5296	5482	5455	
		20	5636	5593	5434	5306	5411	
		25	5556	5378	5478	5432	5341	
		30	5436	5294	5486	5295	5327	
		35	5293	5502	5277	5403	5330	
		40	5412	5720	5544	5415	5561	
		45	5676	5704	5366	5290	5387	
		50	5278	5723	5383	5368	5263	
		55	5630	5375	5718	5281	5604	
		60	5453	5509	5479	5400	5262	
		65	5354	5467	5545	5466	5611	
		70	5715	5402	5568	5641	5396	
		75	5567	5557	5674	5359	5392	
		80	5313	5537	5258	5476	5272	
		85	5389	5414	5595	5410	5365	
		90	5517	5382	5396	5664	5697	
		95	5721	5288	5489	5706	5525	

Type 6 Radar Waveform_#1

Trial List								
	Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (us)	Visible Frequency Number
Download	1	Type 6	1.0	333.3	9	0.3333	300.0000000	27
		Frequency List (MHz)	0	1	2	3	4	
		0	5619	5578	5270	5294	5354	
		5	5660	5710	5666	5399	5656	
		10	5297	5333	5642	5609	5709	
		15	5668	5527	5647	5547	5284	
		20	5375	5395	5304	5444	5705	
		25	5584	5536	5480	5659	5453	
		30	5403	5576	5599	5641	5485	
		35	5674	5580	5623	5559	5627	
		40	5553	5704	5673	5433	5724	
		45	5373	5348	5331	5513	5637	
		50	5544	5314	5595	5697	5257	
		55	5672	5471	5423	5424	5638	
		60	5644	5345	5569	5655	5413	
		65	5271	5415	5550	5371	5335	
		70	5382	5416	5533	5706	5558	
		75	5535	5692	5256	5436	5716	
		80	5395	5669	5488	5349	5456	
		85	5236	5534	5703	5382	5280	
		90	5506	5313	5690	5326	5631	
		95	5628	5546	5289	5480	5590	

Type 6 Radar Waveform_#2

Trial List								
	Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (us)	Visible Frequency Number
Download	2	Type 6	1.0	333.3	9	0.3333	300.0000000	25
		Frequency List (MHz)	0	1	2	3	4	
		0	5302	5342	5681	5455	5611	
		5	5493	5682	5310	5257	5606	
		10	5587	5561	5374	5362	5630	
		15	5322	5320	5502	5475	5364	
		20	5555	5353	5316	5387	5357	
		25	5332	5654	5312	5262	5409	
		30	5522	5547	5410	5618	5253	
		35	5311	5683	5556	5470	5259	
		40	5537	5398	5710	5491	5489	
		45	5670	5485	5704	5456	5406	
		50	5384	5400	5513	5720	5365	
		55	5296	5276	5641	5445	5626	
		60	5564	5620	5395	5334	5290	
		65	5401	5578	5359	5569	5526	
		70	5282	5649	5407	5388	5647	
		75	5643	5509	5592	5675	5678	
		80	5591	5275	5391	5512	5200	
		85	5304	5395	5389	5459	5266	
		90	5419	5642	5350	5526	5519	
		95	5709	5692	5418	5653	5354	

Type 6 Radar Waveform_#3



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Trial List								
	Trial ID	Radar Type	Pulse Width (ns)	FRI (ns)	Pulses per Hop	Hopping Rate (Hz)	Hopping Sequence Length (ns)	Visible Frequency Number
Download	3	Type 6	1.0	333.3	9	0.3333	320.0000000	93
Frequency List (MHz)								
			0	1	2	3	4	
			0	5557	5561	5617	5616	5356
			5	5535	5704	5385	5420	5338
			10	5518	5350	5415	5651	5313
			15	5447	5605	5520	5653	5563
			20	5519	5257	5476	5330	5598
			25	5506	5515	5366	5443	5661
			30	5533	5367	5358	5502	5606
			35	5347	5647	5266	5411	5451
			40	5334	5332	5709	5667	5394
			45	5654	5539	5454	5437	5685
			50	5309	5451	5416	5574	5488
			55	5536	5580	5279	5439	5324
			60	5499	5710	5708	5404	5305
			65	5295	5525	5589	5359	5452
			70	5576	5272	5492	5388	5551
			75	5547	5323	5724	5256	5721
			80	5293	5379	5554	5361	5508
			85	5479	5693	5341	5655	5715
			90	5629	5494	5401	5637	5423
			95	5280	5316	5662	5281	5649

Type 6 Radar Waveform_#4								
Trial List								
	Trial ID	Radar Type	Pulse Width (ns)	FRI (ns)	Pulses per Hop	Hopping Rate (Hz)	Hopping Sequence Length (ns)	Visible Frequency Number
Download	4	Type 6	1.0	333.3	9	0.3333	320.0000000	97
Frequency List (MHz)								
			0	1	2	3	4	
			0	5337	5345	5553	5302	5673
			5	5577	5529	5460	5553	5642
			10	5352	5614	5456	5655	5672
			15	5401	5574	5611	5565	5370
			20	5571	5588	5295	5468	5303
			25	5486	5358	5718	5470	5380
			30	5703	5422	5324	5573	5654
			35	5426	5263	5634	5661	5462
			40	5649	5498	5270	5474	5664
			45	5701	5622	5425	5490	5552
			50	5295	5597	5467	5300	5432
			55	5724	5437	5469	5259	5715
			60	5453	5277	5637	5705	5348
			65	5593	5282	5561	5251	5255
			70	5275	5341	5364	5510	5516
			75	5346	5712	5504	5549	5356
			80	5527	5376	5264	5447	5442
			85	5454	5658	5428	5544	5374
			90	5343	5663	5478	5689	5354
			95	5372	5707	5274	5292	5466

Type 6 Radar Waveform_#5								
Trial List								
	Trial ID	Radar Type	Pulse Width (ns)	FRI (ns)	Pulses per Hop	Hopping Rate (Hz)	Hopping Sequence Length (ns)	Visible Frequency Number
Download	5	Type 6	1.0	333.3	9	0.3333	300.0000000	90
Frequency List (MHz)								
			0	1	2	3	4	
			0	5592	5584	5469	5463	5418
			5	5619	5451	5535	5271	5374
			10	5203	5500	5594	5275	5693
			15	5604	5714	5610	5562	5482
			20	5279	5711	5557	5276	5277
			25	5307	5446	5574	5414	5270
			30	5408	5281	5691	5428	5624
			35	5405	5354	5430	5339	5376
			40	5487	5681	5683	5617	5630
			45	5644	5705	5483	5342	5519
			50	5296	5518	5563	5598	5437
			55	5391	5699	5455	5496	5552
			60	5697	5469	5628	5294	5319
			65	5597	5631	5521	5436	5423
			70	5278	5695	5340	5485	5466
			75	5438	5315	5275	5614	5330
			80	5520	5590	5596	5264	5289
			85	5405	5646	5556	5346	5576
			90	5267	5539	5349	5600	5258
			95	5671	5533	5345	5587	5523

Type 6 Radar Waveform_#6								
Trial List								
	Trial ID	Radar Type	Pulse Width (ns)	FRI (ns)	Pulses per Hop	Hopping Rate (Hz)	Hopping Sequence Length (ns)	Visible Frequency Number
Download	6	Type 6	1.0	333.3	9	0.3333	300.0000000	93
Frequency List (MHz)								
			0	1	2	3	4	
			0	5372	5348	5425	5624	5280
			5	5283	5576	5610	5434	5581
			10	5689	5289	5635	5570	5714
			15	5577	5256	5342	5558	5279
			20	5490	5652	5549	5724	5640
			25	5634	5552	5300	5445	5409
			30	5297	5713	5431	5560	5444
			35	5667	5445	5701	5482	5230
			40	5326	5296	5621	5382	5280
			45	5559	5313	5541	5499	5704
			50	5395	5474	5559	5274	5421
			55	5688	5625	5345	5374	5657
			60	5711	5519	5642	5301	5454
			65	5715	5520	5536	5366	5413
			70	5414	5378	5417	5316	5428
			75	5357	5586	5484	5296	5430
			80	5627	5684	5553	5273	5606
			85	5465	5383	5481	5352	5355
			90	5518	5631	5688	5588	5329
			95	5495	5502	5590	5390	5531

Type 6 Radar Waveform_#7								
Trial List								
	Trial ID	Radar Type	Pulse Width (ns)	FRI (ns)	Pulses per Hop	Hopping Rate (Hz)	Hopping Sequence Length (ns)	Visible Frequency Number
Download	7	Type 6	1.0	333.3	9	0.3333	300.0000000	93
Frequency List (MHz)								
			0	1	2	3	4	
			0	5372	5348	5425	5624	5280
			5	5283	5576	5610	5434	5581
			10	5689	5289	5635	5570	5714
			15	5577	5256	5342	5558	5279
			20	5490	5652	5549	5724	5640
			25	5634	5552	5300	5445	5409
			30	5297	5713	5431	5560	5444
			35	5667	5445	5701	5482	5230
			40	5326	5296	5621	5382	5280
			45	5559	5313	5541	5499	5704
			50	5395	5474	5559	5274	5421
			55	5688	5625	5345	5374	5657
			60	5711	5519	5642	5301	5454
			65	5715	5520	5536	5366	5413
			70	5414	5378	5417	5316	5428
			75	5357	5586	5484	5296	5430
			80	5627	5684	5553	5273	5606
			85	5465	5383	5481	5352	5355
			90	5518	5631	5688	5588	5329
			95	5495	5502	5590	5390	5531



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Trial List									
	Trial Id	Radar Type	Pulse Width (ns)	FRI (ns)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ns)	Visible Frequency Number	
Download	7	Type 6	1.0	333.3	9	0.3333	300.0000000	27	
Frequency List (MHz)									
			0	1	2	3	4		
			0	5530	5587	5381	5310	5430	
			5	5125	5598	5605	5590	5410	
			10	5523	5583	5676	5290	5280	
			15	5568	5383	5445	5603	5471	
			20	5489	5514	5690	5638	5697	
			25	5431	5583	5280	5404	5482	
			30	5451	5661	5670	5646	5354	
			35	5642	5331	5613	5594	5267	
			40	5301	5640	5369	5559	5622	
			45	5277	5391	5597	5396	5502	
			50	5552	5484	5271	5450	5620	
			55	5363	5719	5545	5339	5299	
			60	5564	5628	5268	5684	5608	
			65	5283	5343	5594	5572	5673	
			70	5683	5517	5492	5381	5266	
			75	5292	5387	5306	5706	5627	
			80	5682	5262	5367	5276	5716	
			85	5270	5511	5428	5455	5369	
			90	5351	5600	5285	5394	5571	
			95	5400	5285	5327	5543	5313	

Type 6 Radar Waveform_#8									
Trial List									
	Trial Id	Radar Type	Pulse Width (ns)	FRI (ns)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ns)	Visible Frequency Number	
Download	8	Type 6	1.0	333.3	9	0.3333	300.0000000	33	
Frequency List (MHz)									
			0	5310	5351	5297	5374	5202	
			5	5367	5523	5285	5683	5517	
			10	5454	5342	5717	5485	5281	
			15	5656	5510	5548	5648	5409	
			20	5680	5631	5630	5670	5319	
			25	5435	5483	5508	5516	5493	
			30	5647	5627	5396	5506	5462	
			35	5470	5724	5390	5420	5690	
			40	5576	5482	5497	5387	5274	
			45	5320	5487	5479	5560	5405	
			50	5381	5622	5671	5445	5488	
			55	5526	5253	5279	5502	5397	
			60	5629	5440	5678	5704	5544	
			65	5533	5608	5408	5478	5655	
			70	5481	5590	5268	5346	5673	
			75	5254	5295	5258	5459	5372	
			80	5423	5401	5267	5706	5545	
			85	5488	5650	5324	5305	5373	
			90	5559	5464	5680	5344	5698	
			95	5394	5378	5383	5321	5311	

Type 6 Radar Waveform_#9									
Trial List									
	Trial Id	Radar Type	Pulse Width (ns)	FRI (ns)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ns)	Visible Frequency Number	
Download	9	Type 6	1.0	333.3	9	0.3333	300.0000000	30	
Frequency List (MHz)									
			0	5555	5590	5788	5535	5542	
			5	5409	5545	5360	5351	5349	
			10	5288	5606	5283	5593	5302	
			15	5289	5637	5554	5693	5380	
			20	5417	5274	5572	5719	5643	
			25	5682	5287	5686	5612	5580	
			30	5632	5536	5554	5504	5280	
			35	5660	5512	5340	5661	5573	
			40	5604	5415	5435	5530	5271	
			45	5627	5487	5562	5618	5650	
			50	5646	5401	5527	5722	5541	
			55	5288	5336	5714	5372	5473	
			60	5526	5539	5574	5369	5650	
			65	5367	5482	5547	5715	5370	
			70	5598	5252	5464	5484	5439	
			75	5622	5305	5642	5374	5341	
			80	5711	5385	5404	5264	5523	
			85	5445	5326	5451	5270	5667	
			90	5358	5621	5303	5724	5470	
			95	5639	5386	5381	5278	5378	

Type 6 Radar Waveform_#10									
Trial List									
	Trial Id	Radar Type	Pulse Width (ns)	FRI (ns)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ns)	Visible Frequency Number	
Download	10	Type 6	1.0	333.3	9	0.3333	300.0000000	37	
Frequency List (MHz)									
			0	5345	5354	5644	5696	5384	
			5	5546	5470	5435	5514	5653	
			10	5694	5492	5324	5303	5323	
			15	5357	5667	5687	5641	5572	
			20	5425	5440	5610	5711	5616	
			25	5473	5414	5338	5584	5674	
			30	5541	5719	5432	5480	5651	
			35	5431	5457	5348	5615	5254	
			40	5715	5373	5295	5385	5555	
			45	5447	5545	5679	5533	5217	
			50	5703	5298	5252	5566	5280	
			55	5330	5636	5582	5403	5444	
			60	5655	5704	5519	5676	5427	
			65	5586	5568	5583	5450	5640	
			70	5304	5421	5547	5288	5598	
			75	5254	5494	5484	5695	5488	
			80	5495	5680	5293	5627	5639	
			85	5718	5351	5643	5511	5462	
			90	5632	5310	5394	5501	5476	
			95	5576	5327	5378	5332	5362	

Type 6 Radar Waveform_#11									
Trial List									
	Trial Id	Radar Type	Pulse Width (ns)	FRI (ns)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ns)	Visible Frequency Number	
Download	11	Type 6	1.0	333.3	9	0.3333	300.0000000	37	
Frequency List (MHz)									
			0	5345	5354	5644	5696	5384	
			5	5546	5470	5435	5514	5653	
			10	5694	5492	5324	5303	5323	
			15	5357	5667	5687	5641	5572	
			20	5425	5440	5610	5711	5616	
			25	5473	5414	5338	5584	5674	
			30	5541	5719	5432	5480	5651	
			35	5431	5457	5348	5615	5254	
			40	5715	5373	5295	5385	5555	
			45	5447	5545	5679	5533	5217	
			50	5703	5298	5252	5566	5280	
			55	5330	5636	5582	5403	5444	
			60	5655	5704	5519	5676	5427	
			65	5586	5568	5583	5450	5640	
			70	5304	5421	5547	5288	5598	
			75	5254	5494	5484	5695	5488	
			80	5495	5680	5293	5627	5639	
			85	5718	5351	5643	5511	5462	
			90	5632	5310	5394	5501	5476	
			95	5576	5327	5378	5332	5362	



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Trial List							
	Trial Id	Radar Type	Pulse Width (ns)	FRI (ns)	Pulses per Hop	Hopping Rate (Hz)	Hopping Sequence Length (ns)
Download	11	Type 6	1.0	333.3	9	0.3333	300.0000000
		Frequency List (MHz)	0	1	2	3	4
		0	9503	9593	9500	9382	9604
		5	9590	9492	9510	9385	9505
		10	9281	9395	9498	9344	9348
		15	9319	9285	9686	9386	9336
		20	9509	9551	9325	9589	9361
		25	9563	9520	9442	9519	9716
		30	9411	9459	9681	9300	9315
		35	9522	9350	9501	9529	9568
		40	9323	9689	9535	9362	9485
		45	9427	9553	9537	9667	9628
		50	9404	9349	9341	9389	9602
		55	9510	9277	9697	9415	9309
		60	9394	9464	9508	9639	9391
		65	9380	9282	9532	9582	9493
		70	9533	9587	9515	9574	9698
		75	9483	9514	9530	9676	9265
		80	9605	9441	9340	9636	9438
		85	9351	9474	9654	9500	9542
		90	9321	9579	9482	9510	9694
		95	9388	9443	9547	9581	9527

Type 6 Radar Waveform #12							
Trial List							
	Trial Id	Radar Type	Pulse Width (ns)	FRI (ns)	Pulses per Hop	Hopping Rate (Hz)	Hopping Sequence Length (ns)
Download	12	Type 6	1.0	333.3	9	0.3333	300.0000000
		Frequency List (MHz)	0	1	2	3	4
		0	9203	9367	9518	9543	9448
		5	9632	9417	9585	9289	9592
		10	9459	9545	9406	9593	9395
		15	9436	9388	9256	9578	9344
		20	9675	9492	9317	9562	9627
		25	9512	9723	9546	9582	9380
		30	9300	9455	9674	9359	9498
		35	9454	9710	9621	9654	9443
		40	9504	9678	9359	9407	9336
		45	9695	9720	9485	9593	9400
		50	9430	9687	9704	9544	9467
		55	9419	9299	9438	9599	9506
		60	9340	9554	9329	9559	9327
		65	9385	9662	9519	9590	9364
		70	9550	9657	9385	9259	9673
		75	9420	9618	9697	9524	9275
		80	9633	9254	9424	9534	9274
		85	9485	9315	9415	9209	9488
		90	9547	9566	9616	9509	9427
		95	9445	9560	9636	9347	9432

Type 6 Radar Waveform #13							
Trial List							
	Trial Id	Radar Type	Pulse Width (ns)	FRI (ns)	Pulses per Hop	Hopping Rate (Hz)	Hopping Sequence Length (ns)
Download	13	Type 6	1.0	333.3	9	0.3333	300.0000000
		Frequency List (MHz)	0	1	2	3	4
		0	9538	9596	9452	9704	9666
		5	9674	9499	9600	9431	9324
		10	9390	9334	9544	9413	9386
		15	9524	9573	9491	9301	9295
		20	9352	9269	9530	9406	9535
		25	9515	9364	9451	9580	9686
		30	9422	9664	9412	9317	9607
		35	9318	9496	9326	9417	9429
		40	9454	9343	9489	9585	9443
		45	9356	9721	9387	9419	9656
		50	9298	9475	9283	9391	9519
		55	9393	9498	9657	9713	9290
		60	9470	9724	9647	9477	9531
		65	9278	9594	9597	9663	9259
		70	9505	9680	9688	9526	9282
		75	9719	9638	9672	9253	9478
		80	9338	9630	9450	9632	9266
		85	9497	9468	9333	9366	9339
		90	9434	9591	9581	9351	9250
		95	9411	9442	9254	9548	9527

Type 6 Radar Waveform #14							
Trial List							
	Trial Id	Radar Type	Pulse Width (ns)	FRI (ns)	Pulses per Hop	Hopping Rate (Hz)	Hopping Sequence Length (ns)
Download	14	Type 6	1.0	333.3	9	0.3333	300.0000000
		Frequency List (MHz)	0	1	2	3	4
		0	9318	9340	9389	9390	9509
		5	9339	9364	9280	9594	9628
		10	9321	9598	9505	9511	9407
		15	9612	9700	9497	9724	9487
		20	9263	9435	9471	9396	9306
		25	9691	9654	9279	9720	9464
		30	9650	9369	9532	9284	9516
		35	9635	9417	9310	9582	9368
		40	9457	9649	9503	9483	9353
		45	9553	9270	9502	9714	9351
		50	9362	9634	9457	9609	9711
		55	9337	9607	9452	9372	9706
		60	9599	9414	9396	9576	9303
		65	9574	9616	9702	9533	9534
		70	9489	9466	9428	9588	9693
		75	9537	9478	9293	9482	9387
		80	9716	9449	9266	9259	9377
		85	9401	9627	9645	9632	9583
		90	9557	9581	9295	9320	9339
		95	9597	9518	9708	9282	9543

Type 6 Radar Waveform #15							
Trial List							
	Trial Id	Radar Type	Pulse Width (ns)	FRI (ns)	Pulses per Hop	Hopping Rate (Hz)	Hopping Sequence Length (ns)
Download	15	Type 6	1.0	333.3	9	0.3333	300.0000000
		Frequency List (MHz)	0	1	2	3	4
		0	9318	9340	9389	9390	9509
		5	9339	9364	9280	9594	9628
		10	9321	9598	9505	9511	9407
		15	9612	9700	9497	9724	9487
		20	9263	9435	9471	9396	9306
		25	9691	9654	9279	9720	9464
		30	9650	9369	9532	9284	9516
		35	9635	9417	9310	9582	9368
		40	9457	9649	9503	9483	9353
		45	9553	9270	9502	9714	9351
		50	9362	9634	9457	9609	9711
		55	9337	9607	9452	9372	9706
		60	9599	9414	9396	9576	9303
		65	9574	9616	9702	9533	9534
		70	9489	9466	9428	9588	9693
		75	9537	9478	9293	9482	9387
		80	9716	9449	9266	9259	9377
		85	9401	9627	9645	9632	9583
		90	9557	9581	9295	9320	9339
		95	9597	9518	9708	9282	9543



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Trial List							
	Trial ID	Radar Type	Pulse Width (ns)	FRE (ns)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ns)
Download	16	Type 6	1.0	333.3	9	6.3333	300.000000
Frequency List (MHz)							
			0	1	2	3	4
0			5573	5599	5324	5551	5253
5			5390	5386	5335	5660	5390
10			5630	5494	5626	5706	5428
15			5603	5295	5600	5294	5679
20			5271	5504	5412	5487	5481
25			5669	5640	5382	5480	5279
30			5506	5539	5306	5272	5533
35			5336	5299	5508	5581	5280
40			5282	5496	5277	5441	5448
45			5447	5482	5250	5595	5297
50			5404	5627	5510	5533	5553
55			5319	5534	5459	5320	5406
60			5562	5351	5677	5579	5438
65			5408	5604	5520	5342	5651
70			5569	5366	5284	5647	5500
75			5574	5318	5289	5381	5437
80			5522	5530	5697	5701	5376
85			5515	5444	5561	5624	5365
90			5535	5278	5641	5371	5587
95			5357	5552	5493	5560	5608

Type 6 Radar Waveform #16							
Trial List							
	Trial ID	Radar Type	Pulse Width (ns)	FRE (ns)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ns)
Download	16	Type 6	1.0	333.3	9	6.3333	300.000000
Frequency List (MHz)							
			0	1	2	3	4
0			5256	5480	5280	5615	5570
5			5422	5311	5410	5345	5567
10			5561	5273	5567	5426	5449
15			5681	5382	5703	5339	5396
20			5279	5670	5363	5479	5454
25			5557	5402	5468	5554	5313
30			5495	5459	5333	5487	5695
35			5534	5241	5299	5377	5413
40			5671	5335	5380	5379	5591
45			5444	5411	5705	5668	5258
50			5457	5514	5289	5334	5604
55			5408	5357	5603	5263	5655
60			5543	5551	5269	5383	5715
65			5527	5498	5540	5600	5508
70			5578	5451	5480	5499	5560
75			5321	5613	5609	5642	5678
80			5479	5436	5296	5608	5624
85			5524	5438	5364	5590	5470
90			5606	5325	5525	5489	5375
95			5480	5674	5663	5282	5573

Type 6 Radar Waveform #17							
Trial List							
	Trial ID	Radar Type	Pulse Width (ns)	FRE (ns)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ns)
Download	17	Type 6	1.0	333.3	9	6.3333	300.000000
Frequency List (MHz)							
			0	1	2	3	4
0			5511	5699	5671	5301	5315
5			5484	5333	5485	5396	5492
10			5537	5708	5621	5470	5304
15			5509	5331	5207	5588	5665
20			5254	5391	5568	5427	5348
25			5481	5091	5608	5247	5607
30			5414	5715	5605	5455	5394
35			5480	5312	5649	5663	5682
40			5271	5540	5317	5356	5718
45			5685	5276	5316	5413	5640
50			5510	5695	5497	5558	5450
55			5559	5692	5370	5367	5522
60			5434	5328	5547	5353	5412
65			5366	5549	5544	5408	5446
70			5253	5266	5546	5421	5462
75			5395	5491	5719	5659	5633
80			5409	5552	5297	5521	5280
85			5438	5691	5543	5565	5474
90			5279	5608	5375	5619	5712
95			5523	5257	5541	5527	5281

Type 6 Radar Waveform #18							
Trial List							
	Trial ID	Radar Type	Pulse Width (ns)	FRE (ns)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ns)
Download	18	Type 6	1.0	333.3	9	6.3333	300.000000
Frequency List (MHz)							
			0	1	2	3	4
0			5291	5463	5607	5482	5432
5			5603	5258	5560	5674	5326
10			5274	5341	5491	5392	5638
15			5436	5332	5305	5673	5430
20			5400	5711	5293	5418	5317
25			5301	5254	5323	5672	5345
30			5611	5649	5619	5403	5541
35			5506	5565	5623	5633	5439
40			5647	5666	5389	5374	5466
45			5668	5516	5559	5706	5556
50			5394	5312	5646	5661	5493
55			5543	5589	5273	5476	5275
60			5455	5044	5498	5240	5619
65			5338	5531	5435	5629	5454
70			5311	5309	5314	5455	5310
75			5290	5640	5410	5609	5333
80			5461	5275	5518	5572	5620
85			5506	5282	5342	5338	5573
90			5718	5557	5517	5601	5708
95			5298	5625	5405	5304	5682

Type 6 Radar Waveform #19							
Trial List							
	Trial ID	Radar Type	Pulse Width (ns)	FRE (ns)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ns)
Download	19	Type 6	1.0	333.3	9	6.3333	300.000000
Frequency List (MHz)							
			0	1	2	3	4
0			5291	5463	5607	5482	5432
5			5603	5258	5560	5674	5326
10			5274	5341	5491	5392	5638
15			5436	5332	5305	5673	5430
20			5400	5711	5293	5418	5317
25			5301	5254	5323	5672	5345
30			5611	5649	5619	5403	5541
35			5506	5565	5623	5633	5439
40			5647	5666	5389	5374	5466
45			5668	5516	5559	5706	5556
50			5394	5312	5646	5661	5493
55			5543	5589	5273	5476	5275
60			5455	5044	5498	5240	5619
65			5338	5531	5435	5629	5454
70			5311	5309	5314	5455	5310
75			5290	5640	5410	5609	5333
80			5461	5275	5518	5572	5620
85			5506	5282	5342	5338	5573
90			5718	5557	5517	5601	5708
95			5298	5625	5405	5304	5682



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Trial List								
	Trial ID	Radar Type	Pulse Width (ns)	FRE (ns)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ns)	Visible Frequency Number
Download	19	Type 6	1.0	333.3	9	0.3333	300.0000000	34
		Frequency List (MHz)	0	1	2	3	4	
	0	9546	9702	9543	9623	9377		
	5	9545	9280	9635	9285	9335		
	10	9257	9590	9315	9439	9512		
	15	9383	9288	9440	9594	9681		
	20	9596	9273	9649	9373	9555		
	25	9620	9622	9518	9415	9395		
	30	9289	9609	9560	9395	9372		
	35	9283	9494	9337	9510	9424		
	40	9706	9571	9361	9435	9479		
	45	9442	9519	9456	9392	9290		
	50	9282	9297	9679	9716	9500		
	55	9600	9275	9464	9672	9308		
	60	9577	9401	9390	9447	9450		
	65	9608	9334	9507	9415	9524		
	70	9295	9322	9430	9433	9421		
	75	9662	9719	9589	9528	9515		
	80	9292	9462	9566	9307	9284		
	85	9296	9474	9724	9399	9710		
	90	9250	9353	9509	9303	9597		
	95	9407	9428	9562	9478	9320		

Type 6 Radar Waveform #20								
Trial List								
	Trial ID	Radar Type	Pulse Width (ns)	FRE (ns)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ns)	Visible Frequency Number
Download	20	Type 6	1.0	333.3	9	0.3333	300.0000000	35
		Frequency List (MHz)	0	1	2	3	4	
	0	9704	9466	9479	9309	9597		
	5	9687	9680	9710	9428	9639		
	10	9566	9379	9356	9634	9533		
	15	9471	9318	9543	9422	9311		
	20	9592	9495	9441	9443	9390		
	25	9569	9350	9422	9449	9435		
	30	9653	9598	9300	9537	9467		
	35	9325	9585	9608	9269	9521		
	40	9263	9314	9509	9504	9529		
	45	9405	9528	9525	9393	9572		
	50	9343	9646	9333	9396	9502		
	55	9660	9688	9554	9485	9677		
	60	9338	9326	9454	9280	9615		
	65	9403	9347	9594	9396	9595		
	70	9515	9579	9491	9527	9387		
	75	9261	9707	9291	9550	9402		
	80	9439	9257	9370	9592	9488		
	85	9512	9487	9719	9401	9480		
	90	9335	9402	9285	9659	9722		
	95	9364	9493	9476	9510	9700		

Type 6 Radar Waveform #21								
Trial List								
	Trial ID	Radar Type	Pulse Width (ns)	FRE (ns)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ns)	Visible Frequency Number
Download	21	Type 6	1.0	333.3	9	0.3333	300.0000000	37
		Frequency List (MHz)	0	1	2	3	4	
	0	9404	9705	9415	9470	9439		
	5	9351	9702	9310	9591	9371		
	10	9497	9265	9494	9354	9554		
	15	9559	9445	9446	9370	9503		
	20	9600	9356	9252	9285	9416		
	25	9456	9421	9456	9251	9483		
	30	9477	9542	9543	9418	9311		
	35	9390	9464	9676	9501	9422		
	40	9436	9674	9447	9269	9526		
	45	9337	9508	9608	9451	9425		
	50	9522	9442	9394	9475	9703		
	55	9507	9401	9495	9496	9309		
	60	9485	9419	9690	9326	9414		
	65	9345	9492	9295	9318	9273		
	70	9587	9530	9711	9415	9666		
	75	9438	9670	9422	9583	9491		
	80	9367	9526	9391	9541	9412		
	85	9482	9718	9599	9286	9299		
	90	9553	9314	9329	9261	9485		
	95	9541	9403	9574	9471	9498		

Type 6 Radar Waveform #22								
Trial List								
	Trial ID	Radar Type	Pulse Width (ns)	FRE (ns)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ns)	Visible Frequency Number
Download	22	Type 6	1.0	333.3	9	0.3333	300.0000000	41
		Frequency List (MHz)	0	1	2	3	4	
	0	9284	9469	9351	9631	9469		
	5	9393	9627	9395	9279	9578		
	10	9420	9529	9535	9549	9575		
	15	9447	9572	9274	9415	9495		
	20	9608	9425	9489	9722	9390		
	25	9544	9370	9395	9517	9616		
	30	9528	9500	9613	9483	9495		
	35	9603	9292	9297	9349	9513		
	40	9577	9509	9523	9444	9488		
	45	9691	9412	9678	9495	9398		
	50	9343	9435	9544	9526	9451		
	55	9589	9462	9315	9280	9584		
	60	9309	9625	9334	9415	9294		
	65	9530	9702	9565	9596	9345		
	70	9670	9630	9568	9591	9407		
	75	9493	9468	9477	9407	9545		
	80	9723	9499	9452	9525	9552		
	85	9381	9483	9340	9326	9409		
	90	9494	9394	9479	9423	9485		
	95	9618	9598	9569	9716	9718		

Type 6 Radar Waveform #23								
Trial List								
	Trial ID	Radar Type	Pulse Width (ns)	FRE (ns)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ns)	Visible Frequency Number
Download	23	Type 6	1.0	333.3	9	0.3333	300.0000000	41
		Frequency List (MHz)	0	1	2	3	4	
	0	9284	9469	9351	9631	9469		
	5	9393	9627	9395	9279	9578		
	10	9420	9529	9535	9549	9575		
	15	9447	9572	9274	9415	9495		
	20	9608	9425	9489	9722	9390		
	25	9544	9370	9395	9517	9616		
	30	9528	9500	9613	9483	9495		
	35	9603	9292	9297	9349	9513		
	40	9577	9509	9523	9444	9488		
	45	9691	9412	9678	9495	9398		
	50	9343	9435	9544	9526	9451		
	55	9589	9462	9315	9280	9584		
	60	9309	9625	9334	9415	9294		
	65	9530	9702	9565	9596	9345		
	70	9670	9630	9568	9591	9407		
	75	9493	9468	9477	9407	9545		
	80	9723	9499	9452	9525	9552		
	85	9381	9483	9340	9326	9409		
	90	9494	9394	9479	9423	9485		
	95	9618	9598	9569	9716	9718		



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Trial List								
	Trial ID	Radar Type	Pulse Width (ns)	FRE (ns)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ns)	Visible Frequency Number
Download	23	Type 6	1.0	333.3	9	0.3333	300.0000000	36
		Frequency List (MHz)	0	1	2	3	4	
		0	5519	5708	5287	5695	5501	
		5	5435	5649	5460	5442	5407	
		10	5262	5310	5576	5269	5596	
		15	5638	5699	5377	5412	5591	
		20	5739	5736	5762	5632	5697	
		25	5387	5596	5454	5658	5417	
		30	5457	5373	5712	5408	5645	
		35	5480	5568	5350	5380	5352	
		40	5680	5323	5652	5520	5573	
		45	5488	5299	5470	5634	5285	
		50	5274	5486	5275	5349	5298	
		55	5680	5416	5463	5512	5251	
		60	5713	5474	5667	5603	5453	
		65	5282	5438	5710	5566	5534	
		70	5399	5514	5456	5633	5409	
		75	5567	5584	5330	5545	5423	
		80	5490	5463	5612	5309	5406	
		85	5694	5525	5499	5440	5294	
		90	5574	5332	5489	5370	5436	
		95	5477	5415	5542	5487	5319	

Type 6 Radar Waveform #24								
Trial List								
	Trial ID	Radar Type	Pulse Width (ns)	FRE (ns)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ns)	Visible Frequency Number
Download	24	Type 6	1.0	333.3	9	0.3333	300.0000000	29
		Frequency List (MHz)	0	1	2	3	4	
		0	5299	5472	5698	5381	5721	
		5	5477	5574	5535	5508	5614	
		10	5648	5582	5617	5367	5251	
		15	5351	5393	5595	5604	5527	
		20	5660	5647	5329	5335	5640	
		25	5580	5488	5700	5403	5414	
		30	5588	5389	5703	5389	5571	
		35	5364	5503	5274	5666	5385	
		40	5261	5417	5517	5406	5440	
		45	5382	5528	5687	5695	5537	
		50	5717	5393	5370	5653	5331	
		55	5600	5270	5639	5612	5515	
		60	5376	5667	5289	5252	5677	
		65	5506	5642	5250	5636	5543	
		70	5450	5479	5623	5400	5444	
		75	5301	5372	5428	5341	5575	
		80	5290	5316	5345	5347	5427	
		85	5349	5470	5668	5432	5429	
		90	5676	5447	5672	5552	5400	
		95	5469	5389	5321	5325	5470	

Type 6 Radar Waveform #25								
Trial List								
	Trial ID	Radar Type	Pulse Width (ns)	FRE (ns)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ns)	Visible Frequency Number
Download	25	Type 6	1.0	333.3	9	0.3333	300.0000000	32
		Frequency List (MHz)	0	1	2	3	4	
		0	5457	5711	5634	5542	5563	
		5	5616	5596	5610	5671	5346	
		10	5589	5371	5655	5562	5638	
		15	5739	5361	5498	5463	5311	
		20	5535	5351	5588	5417	5238	
		25	5598	5498	5318	5289	5522	
		30	5364	5292	5706	5426	5448	
		35	5662	5257	5656	5663	5505	
		40	5674	5657	5514	5334	5425	
		45	5485	5489	5285	5437	5404	
		50	5396	5373	5564	5581	5324	
		55	5388	5625	5571	5399	5329	
		60	5557	5347	5677	5271	5462	
		65	5541	5576	5383	5200	5250	
		70	5261	5485	5519	5502	5578	
		75	5525	5604	5652	5613	5700	
		80	5435	5400	5609	5331	5635	
		85	5395	5291	5299	5595	5350	
		90	5382	5407	5695	5546	5653	
		95	5607	5263	5695	5550	5459	

Type 6 Radar Waveform #26								
Trial List								
	Trial ID	Radar Type	Pulse Width (ns)	FRE (ns)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ns)	Visible Frequency Number
Download	26	Type 6	1.0	333.3	6	0.3333	300.0000000	30
		Frequency List (MHz)	0	1	2	3	4	
		0	5712	5475	5570	5703	5308	
		5	5658	5521	5495	5359	5450	
		10	5423	5257	5699	5202	5459	
		15	5427	5528	5589	5498	5610	
		20	5446	5420	5420	5439	5281	
		25	5377	5350	5424	5393	5556	
		30	5406	5656	5328	5315	5721	
		35	5587	5278	5528	5431	5674	
		40	5441	5531	5515	5422	5408	
		45	5263	5408	5548	5547	5318	
		50	5324	5280	5572	5639	5542	
		55	5671	5294	5556	5347	5494	
		60	5502	5654	5600	5692	5663	
		65	5662	5577	5311	5414	5661	
		70	5352	5711	5361	5334	5388	
		75	5441	5289	5498	5688	5585	
		80	5429	5723	5481	5429	5495	
		85	5308	5328	5351	5597	5596	
		90	5524	5288	5445	5579	5495	
		95	5707	5563	5581	5636	5537	

Type 6 Radar Waveform #27								
Trial List								
	Trial ID	Radar Type	Pulse Width (ns)	FRE (ns)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ns)	Visible Frequency Number
Download	27	Type 6	1.0	333.3	6	0.3333	300.0000000	30
		Frequency List (MHz)	0	1	2	3	4	
		0	5712	5475	5570	5703	5308	
		5	5658	5521	5495	5359	5450	
		10	5423	5257	5699	5202	5459	
		15	5427	5528	5589	5498	5610	
		20	5446	5420	5420	5439	5281	
		25	5377	5350	5424	5393	5556	
		30	5406	5656	5328	5315	5721	
		35	5587	5278	5528	5431	5674	
		40	5441	5531	5515	5422	5408	
		45	5263	5408	5548	5547	5318	
		50	5324	5280	5572	5639	5542	
		55	5671	5294	5556	5347	5494	
		60	5502	5654	5600	5692	5663	
		65	5662	5577	5311	5414	5661	
		70	5352	5711	5361	5334	5388	
		75	5441	5289	5498	5688	5585	
		80	5429	5723	5481	5429	5495	
		85	5308	5328	5351	5597	5596	
		90	5524	5288	5445	5579	5495	
		95	5707	5563	5581	5636	5537	



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Trial List							
	Trial Id	Radar Type	Pulse Width (ns)	FRE (ns)	Pulses per Hop	Hopping Rate (Hz)	Hopping Sequence Length (ns)
Download	27	Type 6	1.0	333.3	9	0.3333	300.0000000
		Frequency List (MHz)	0	1	2	3	4
		0	5492	5714	5506	5309	5625
		5	5100	5543	5285	5522	5382
		10	5364	5521	5285	5477	5680
		15	5418	5436	5492	5327	5654
		20	5536	5567	5480	5254	5299
		25	5627	5594	5590	5445	5542
		30	5661	5564	5543	5629	5369
		35	5324	5584	5589	5290	5614
		40	5483	5605	5606	5570	5291
		45	5631	5371	5589	5534	5273
		50	5690	5494	5355	5482	5107
		55	5641	5513	5467	5659	5544
		60	5498	5426	5438	5511	5518
		65	5618	5684	5464	5687	5658
		70	5374	5420	5255	5721	5566
		75	5681	5358	5242	5696	5297
		80	5621	5709	5439	5672	5304
		85	5616	5368	5491	5476	5341
		90	5580	5318	5281	5380	5519
		95	5537	5362	5445	5524	5325

Type 6 Radar Waveform #28							
Trial List							
	Trial Id	Radar Type	Pulse Width (ns)	FRE (ns)	Pulses per Hop	Hopping Rate (Hz)	Hopping Sequence Length (ns)
Download	28	Type 6	1.0	333.3	9	0.3333	300.0000000
		Frequency List (MHz)	0	1	2	3	4
		0	5272	5478	5539	5550	5370
		5	5267	5565	5360	5558	5589
		10	5295	5310	5306	5672	5701
		15	5536	5287	5320	5491	5519
		20	5462	5655	5505	5490	5702
		25	5533	5426	5395	5698	5624
		30	5117	5481	5716	5244	5299
		35	5557	5492	5282	5522	5294
		40	5319	5391	5330	5652	5699
		45	5271	5336	5663	5424	5476
		50	5410	5449	5266	5342	5317
		55	5299	5670	5564	5483	5480
		60	5387	5311	5349	5489	5415
		65	5252	5681	5687	5560	5552
		70	5353	5576	5593	5683	5464
		75	5507	5350	5379	5695	5366
		80	5382	5547	5361	5371	5518
		85	5395	5721	5294	5341	5612
		90	5378	5421	5399	5457	5292
		95	5534	5497	5412	5374	5597

Type 6 Radar Waveform #29							
Trial List							
	Trial Id	Radar Type	Pulse Width (ns)	FRE (ns)	Pulses per Hop	Hopping Rate (Hz)	Hopping Sequence Length (ns)
Download	29	Type 6	1.0	333.3	9	0.3333	300.0000000
		Frequency List (MHz)	0	1	2	3	4
		0	5430	5717	5475	5711	5687
		5	5406	5490	5435	5276	5321
		10	5604	5574	5444	5295	5722
		15	5594	5414	5326	5536	5373
		20	5346	5546	5579	5675	5419
		25	5478	5558	5247	5628	5629
		30	5430	5674	5519	5559	5432
		35	5448	5498	5512	5513	5433
		40	5402	5329	5570	5589	5331
		45	5251	5624	5477	5266	5286
		50	5625	5317	5431	5518	5621
		55	5653	5279	5399	5343	5514
		60	5434	5650	5627	5413	5609
		65	5491	5660	5371	5545	5405
		70	5291	5467	5259	5330	5406
		75	5428	5520	5613	5481	5299
		80	5549	5309	5612	5695	5681
		85	5681	5422	5542	5336	5699
		90	5503	5446	5256	5402	5440
		95	5427	5377	5487	5399	5387



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9. LIST OF MEASURING EQUIPMENTS

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
SAMSUNG ELECTRONICS	WEA453e / Wireless AP (Master Device)	N/A	N/A	S2LF812265
ADLINK	PXI/DFS Measurement System(S/G)	2024-03-19	2025-03-18	302581/735
ADLINK	PXI/DFS Measurement System(S/A)	2024-03-19	2025-03-18	303582/113
Agilent	N9020A / Signal Analyzer	2024-06-04	2025-06-03	MY52090906
Hewlett Packard	11636B/Power Divider	2024-02-05	2025-02-04	0531
Hewlett Packard	11667B / Power Splitter	2024-06-04	2025-06-03	05001
Agilent	8493C / Attenuator (10 dB)	2024-09-04	2025-09-03	07560
WEINSCHEL	2-3 / Attenuator (3 dB)	2024-08-07	2025-08-06	BR0617
Weinschel	AF9003-69-31 / Step Attenuator	2023-10-11	2024-10-10	5701
		2024-10-10	2025-10-09	
Cernex	CDPU5260404K / 4 Way Power Divider	2024-06-04	2025-06-03	14695
Narda	4426-4 / 4 Way Power Divider	2024-02-05	2025-02-04	11927



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10. TEST SETUP PHOTOGRAPHS OF EUT

Please refer to separated files for Test Setup Photos of the EUT.

11. EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

12. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF REPORT-----



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