Prüfbericht-Nr.: *Test report no.*:	**CN24VZDT 004**	**Auftrags-Nr.:** *Order no.*:	**168449632**	Seite 1 von 14 *Page 1 of 14*
Kunden-Referenz-Nr.: *Client reference no.*:	N/A	**Auftragsdatum:** *Order date:*	2023-10-26	
Auftraggeber: *Client*:	**SZ DJI Osmo Technology Co.,Ltd.** 4F, Jingkou Community Comprehensive Service Building, No. 83 Bishui Road North, Guangming Street, Guangming District, Shenzhen, China			
Prüfgegenstand: *Test item*:	DJI SDR Transmission			
Bezeichnung / Typ-Nr.: *Identification / Type no.*:	RX5 (Trademark: DJI)			
Auftrags-Inhalt: *Order content*:	Test Report			
Prüfgrundlage: *Test specification*:	CFR47 FCC Part 15: Subpart E Section 15.407 (DFS test only)			

Wareneingangsdatum: *Date of sample receipt*:	2023-12-05	Please refer to Photo Document
Prüfmuster-Nr.: *Test sample no:*	A003612445-001~047	
Prüfzeitraum: *Testing period*:	2023-12-14 - 2024-02-05	
Ort der Prüfung: *Place of testing*:	TÜV Rheinland (Shenzhen) Co., Ltd.	
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.	
Prüfergebnis*: *Test result**:	Pass	

geprüft von: tested by:	x Bell Hu Signed by: Bell Hu	**genehmigt von:** *authorized by*:	x Jonathan Li Signed by: Jonathan Li
Datum: *Date:* 2024-05-21		**Ausstellungsdatum:** *Issue date:* 2024-05-21	
Stellung / Position:	Sachverständige(r)/Expert	**Stellung** / Position:	Sachverständige(r)/Expert

Sonstiges / *Other*:
FCC ID: 2ANDR-RX53209
This report is for 5.6GHz SDR DFS.

Zustand des Prüfgegenstandes bei Anlieferung: *Condition of the test item at delivery*: Prüfmuster vollständig und unbeschädigt *Test item complete and undamaged*

* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
** Legend:*	*P(ass) = passed a.m. test specification(s)*	*F(ail) = failed a.m. test specification(s)*	*N/A = not applicable*	*N/T = not tested*

V05

Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. *The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system.* *Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.*
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. *Test clauses with remark of * are subcontracted to qualified subcontractors and descripted under the respective test clause in the report.* *Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.*
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnisen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezueglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the “Zero Guard Band Rule” and “Simple Acceptance” in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.

Test Summary

5.1.1 DYNAMIC FREQUENCY SELECTION (DFS)

RESULT: *Pass*

Contents

1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of 5.6GHz SDR DFS

Appendix B: Photographs of the Test Set-up.

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. China.

FCC Accreditation Designation No.: 694916

ISED wireless device testing laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (SDR-Tonscend)					
Equipment	**Manufacturer**	**Model**	**Serial No.**	**Cal. Date**	**Cal. until**
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2023-09-22	2024-09-21
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2023-09-22	2024-09-21
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2023-09-22	2024-09-21
DC power supply	Keysight	E3642A	MY61276100	2023-09-22	2024-09-21
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2023-09-22	2024-09-21
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2023-09-22	2024-09-21
Test Software	Tonscend	JS1120-3	N/A	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A	N/A
Shielding Room 8#	Albatross	SR8	APC17151-SR8	2021-06-22	2024-06-22

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	±4.17 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.70 dB / ± 3.30 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. China. is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The Product is DJI SDR Transmission which which supports 2.4GHz SDR & 5.8GHz SDR transceiver and 5.6GHz SDR Receiver functions.
*Remark: SDR means specific defined radio and cannot changes radio specification via software/firmware by end-users.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	DJI SDR Transmission
Type Designation:	RX5
Trademark:	DJI
FCC ID	2ANDR-RX53209
Operating Voltage	7.4 V DC by battery or powered by AC/DC adapter (120V AC/60Hz)
Testing Voltage	DC 7.4V by battery or AC 120V, 60Hz
Extreme Temperature Range	-10ºC to +45ºC
Radiofrequency operating mode	1) 2.4GHz SDR: operating within 2400-2483.5MHz, supports 1.4MHz/3MHz/10MHz/20MHz/40MHz Bandwidth 2) 5.6GHz SDR (RX only): operating within 5470-5725MHz, supports 20MHz/40MHz Bandwidth 3) 5.8GHz SDR: operating within 5725-5850MHz, supports 1.4MHz/3MHz/10MHz/20MHz/40MHz Bandwidth
Technical Specification of 5.6GHz SDR (RX only)	
Operating Frequency	5500-5700MHz for 20MHz Bandwidth 5510-5670MHz for 40MHz Bandwidth
Type of Modulation	OFDM
Channel Number	8 channels for 20MHz Bandwidth 3 channels for 40MHz Bandwidth
Channel Separation	20MHz
Antenna Type	Integral Antenna
Antenna Number	4 Antennas, Only support MIMO mode.
Antenna Gain	Ant0: 3.23dBi, Ant1: 3.02dBi, Ant2: 3.71dBi, Ant3: 2.44dBi (as provided by client)
Equipment Type	Master Device*
TX Power Control (TPC)	N/A

***Clarification of the DFS master device:**

The wireless transmission system includes product A (DJI SDR Transmission, TX5) and **product B (EUT:** DJI SDR Transmission, RX5**)** operating within 5470-5725MHz, 5725-5850MHz and 2400-2483.5MHz bands.
1) 5725-5850MHz and 2400-2483.5MHz bands (customer defined wireless technology):
Both product A + B support Tx and Rx.
2) 5470-5725MHz band (customer defined wireless technology):
Product A only supports Tx mode in this band (only data transmission), slave without DFS detection function.
Product B only supports Rx mode in this band (only data receive), with DFS detection function.
3) The DFS mechanism as below:
In this system, product A is the salve device, product B is the master device.
The product B is the Master device with DFS detection function, it controls the channel and mode for the product A operating in band 5470-5725MHz. The product B sends DFS control signals to the product A via 5725-5850MHz and/or 2400-2483.5MHz.

Table 4: RF Channel and Frequency of 5.6GHz SDR

5.5GHz SDR 20MHz Bandwidth (5500MHz-5700MHz)	
Channel	Frequency (MHz)
1	5500
2	5520
3	5540
4	5560
5	5580
[redacted]	
9	5660
10	5680
11	5700
5.5GHz SDR 40MHz Bandwidth (5510MHz-5670MHz)	
Channel	Frequency (MHz)
1	5510
2	5550
[redacted]	
5	5670

3.3 Independent Operation Modes

The basic operation modes are:

A. On, Normal operation

B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- ID Label and Location Info
- User Manual
- Operation Description

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model RX5 in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	Remark
Portable Laptop	Lenovo	ThinkPad T480	SN: 10Q67059
Signal Cable	DJI	/	Type C to Type C, 0.3m
Signal Cable	DJI	/	BNC to BNC, 0.5m
Video Transmitter	DJI	ASVL0	SN: 4VHDL8T004EYT3
Video display	DJI	HG330	SN: 3YEDL8V0032FQ3
DJI Transmission Air	DJI	TX5	SN: 7H2DLA40010282
Earphone	DJI	/	/
Smartphone	HUAWEI	/	/
Laptop	Lenovo	T480	SN: PF-16A6N8
AC/DC Adapter	/	PD-30CN	Input: 100-240V, 50/60Hz, 0.8A Max Output: 3.3-11V, 2.72A or 5V/3A or 9V/3A or 12V/2.5A or 15V/2A

4.4 Countermeasures to Achieve EMC Compliance

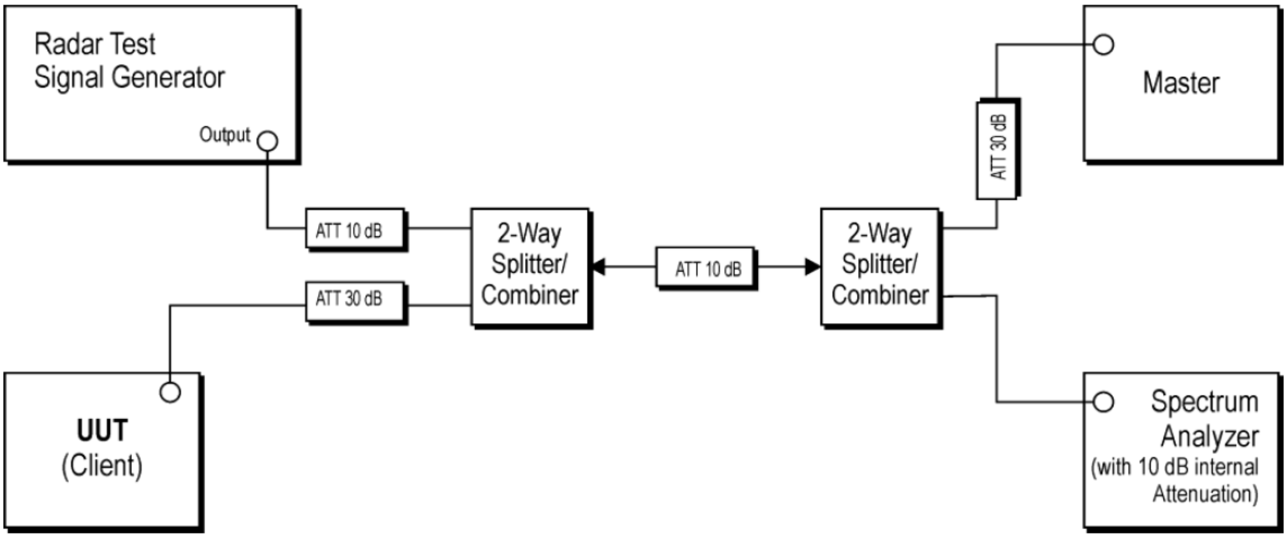
The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Test

Diagram of Measurement Configuration for Dynamic Frequency Selection (DFS)



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Dynamic Frequency Selection (DFS)

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.407(h) RSS-247 clause 6.3
Basic standard	:	ANSI C63.10: 2013
Limits	:	5250-5350MHz, 5470-5725MHz FCC Part 15.407(h)(2)
Kind of test site	:	Shielded Room
Test standard	:	FCC Part 15.407(h) RSS-247 clause 6.3
Basic standard	:	ANSI C63.10: 2013

Test Setup

Date of testing	:	2023-12-14
Input voltage	:	DC 7.4V by battery
Operation mode	:	B
Earthing	:	Not connected
Ambient temperature	:	23.3 ℃
Relative humidity	:	50.8 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

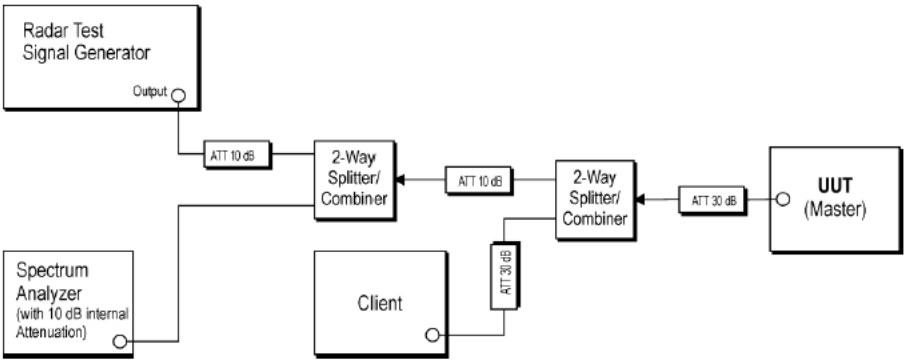
7 List of Tables

Appendix A: Test Results of DFS

1.1 Measurement

1.1.1 Test set up

This product test performed under conducted method.



1.1.2 Operating mode

The equipment operates at the frequency bands 5470-5725MHz. We've verified the equipment and chose 5510MHz (40MHz) for DFS test.

The channel loading of 17% or greater was used for testing, and its data was transferred from the master device to the client device for all test configurations.

WLAN tranfic is generated by the DFS Test tool, from the master to the client in data packets.
Information regarding the parameters of the detected Radar Waveforms is not available to the end user.

This product can be Master Device or Client Device (without DFS), thus both of the two modes were tested.

1.1.3 Test Requirements

According to Part 15.407(h)(2) and KDB 905462 D02, Radar Detection Function of DFS.

Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems. Operators shall only use equipment with a DFS mechanism that is turned on when operating in these bands. The device must sense for radar signals at 100 percent of its emission bandwidth. The minimum DFS detection threshold for devices with a maximum e.i.r.p. of 200 mW to 1 W is −64 dBm. For devices that operate with less than 200 mW e.i.r.p. and a power spectral density of less than 10 dBm in a 1 MHz band, the minimum detection threshold is −62 dBm. The detection threshold is the received power averaged over 1 microsecond referenced to a 0 dBi antenna. For the initial channel setting, the manufacturers shall be permitted to provide for either random channel selection or manual channel selection.

(i) Operational Modes. The DFS requirement applies to the following operational modes:
  (A) The requirement for channel availability check time applies in the master operational mode.
  (B) The requirement for channel move time applies in both the master and slave operational modes.

(ii) Channel Availability Check Time. A U-NII device shall check if there is a radar system already operating on the channel before it can initiate a transmission on a channel and when it has to move to a new channel. The U-NII device may start using the channel if no radar signal with a power level greater than the interference threshold values listed in paragraph (h)(2) of this section, is detected within 60 seconds.

(iii) Channel Move Time. After a radar's presence is detected, all transmissions shall cease on the operating channel within 10 seconds. Transmissions during this period shall consist of normal traffic for a maximum of 200 ms after detection of the radar signal. In addition, intermittent management and control signals can be sent during the remaining time to facilitate vacating the operating channel.

(iv) Non-occupancy Period. A channel that has been flagged as containing a radar system, either by a channel availability check or in-service monitoring, is subject to a non-occupancy period of at least 30 minutes. The non-occupancy period starts at the time when the radar system is detected.

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

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.		

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	**Value (See Notes 1, 2, and 3)**
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 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. **Note3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

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.	

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	$\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot10^{6}}{\text{PRI}_{\mu sec}}\right)\right\}$	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.

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

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

1.2 DFS Detection Thresholds

1.2.1 Test procedures

Test as per KDB905462 D02 section 7.5, and this product is a master device.
The radar test signal level is set at the Master Device, or the Client Device with In-Service Monitoring, as appropriate for the particular test. This device is known as the Radar Detection Device (RDD). The RDD consists of the applicable device and the device antenna assembly that has the lowest antenna assembly gain of all available antenna assemblies. Depending on the UUT, the following configurations exist:

1) When the Master Device is the UUT, the Master Device is the RDD.
2) When a Client Device without Radar Detection is the UUT, the Master Device is the RDD.
3) When a Client Device with Radar Detection is the UUT, and is tested for response to the Master Device detections, the Master Device is the RDD.
4) When a Client Device with Radar Detection is the UUT, and is tested for independent response to detections by the Client Device, the Client Device is the RDD.

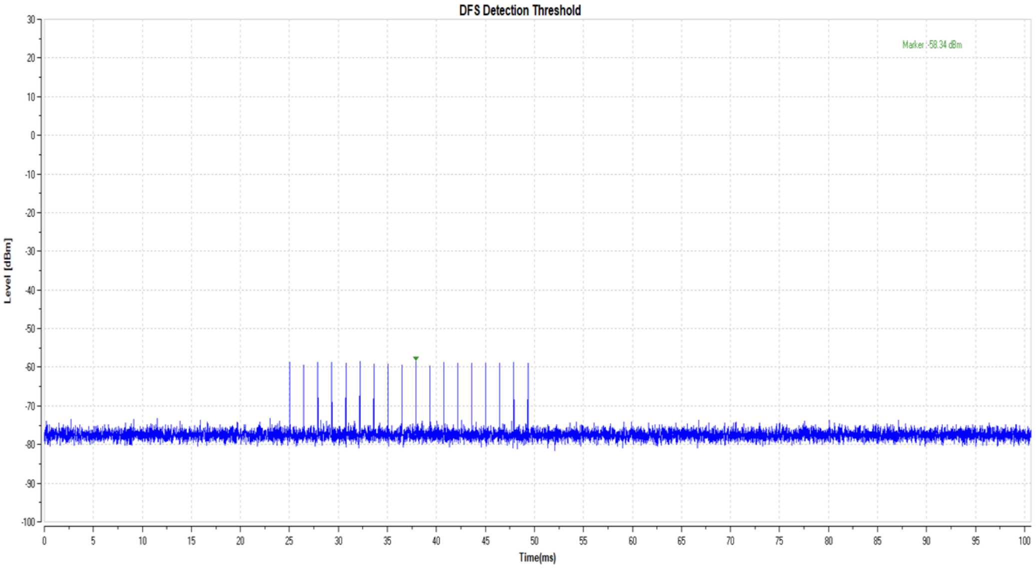
A spectrum analyzer is used to establish the test signal level for each radar type. During this process, there are no transmissions by either the Master Device or Client Device. The spectrum analyzer is switched to the zero span (time domain) mode at the frequency of the Radar Waveform generator. The peak detector function of the spectrum analyzer is utilized. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) are set to at least 3 MHz.
The signal generator amplitude and/or step attenuators are set so that the power level measured at the spectrum analyzer is equal to the DFS Detection Threshold that is required for the tests. The signal generator and attenuator settings are recorded for use during the test.
Data demonstrating that the test signal level is correctly set for each radar type (0-6) will be recorded and reported.

1.2.2 Test Result

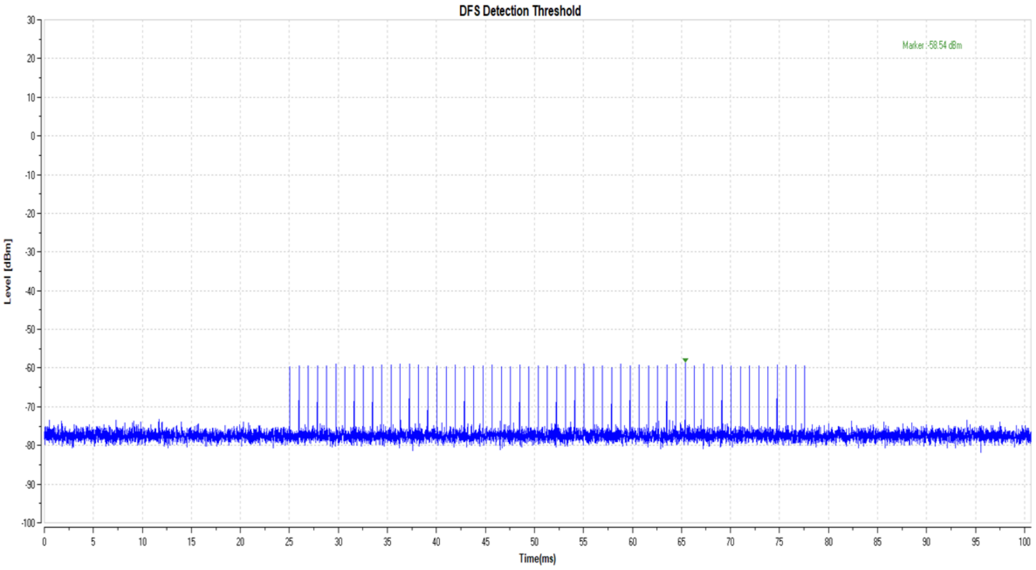
Frequency[dbm]	Radar Type	Result	Limit[dbm]	Verdict
5510	Type0	-58.34	-58.29	PASS
	Type1	-58.54	-58.29	PASS
	Type2	-58.42	-58.29	PASS
	Type3	-58.43	-58.29	PASS
	Type4	-58.38	-58.29	PASS
	Type5	-58.62	-58.29	PASS
	Type6	-58.74	-58.29	PASS

1.2.3 Test Graphs

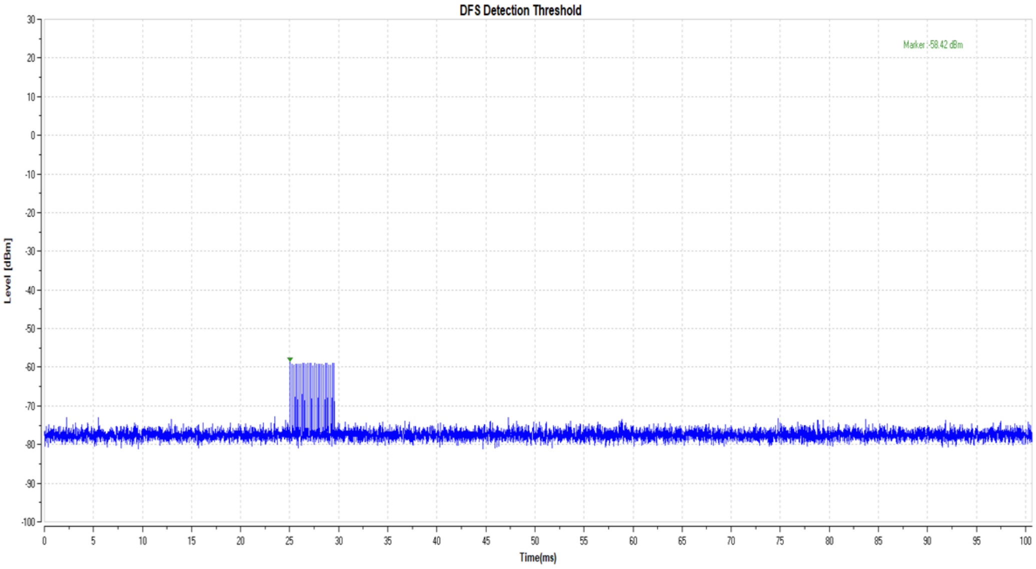
40MHz BW_5510_Type0



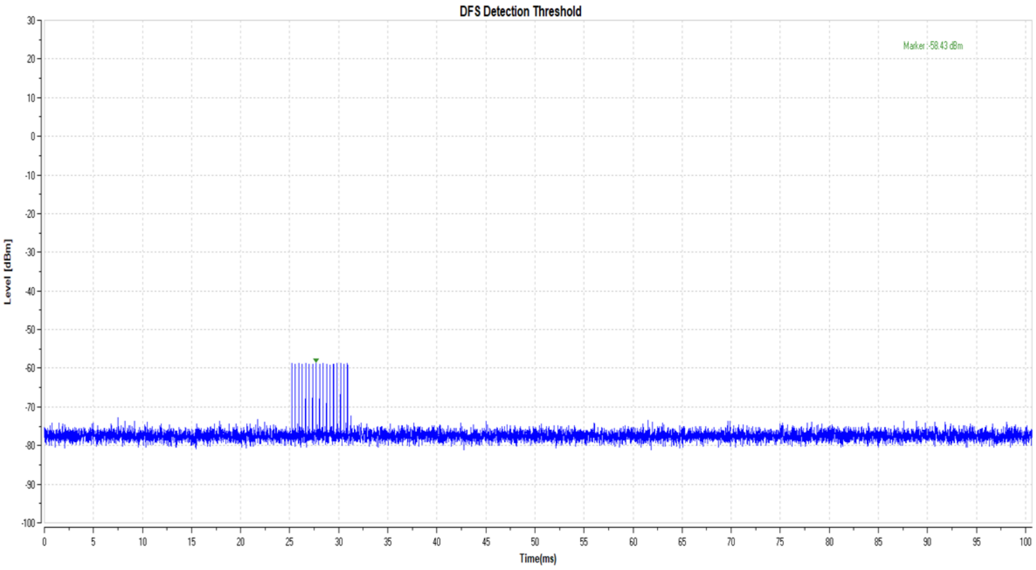
40MHz BW_5510_Type1



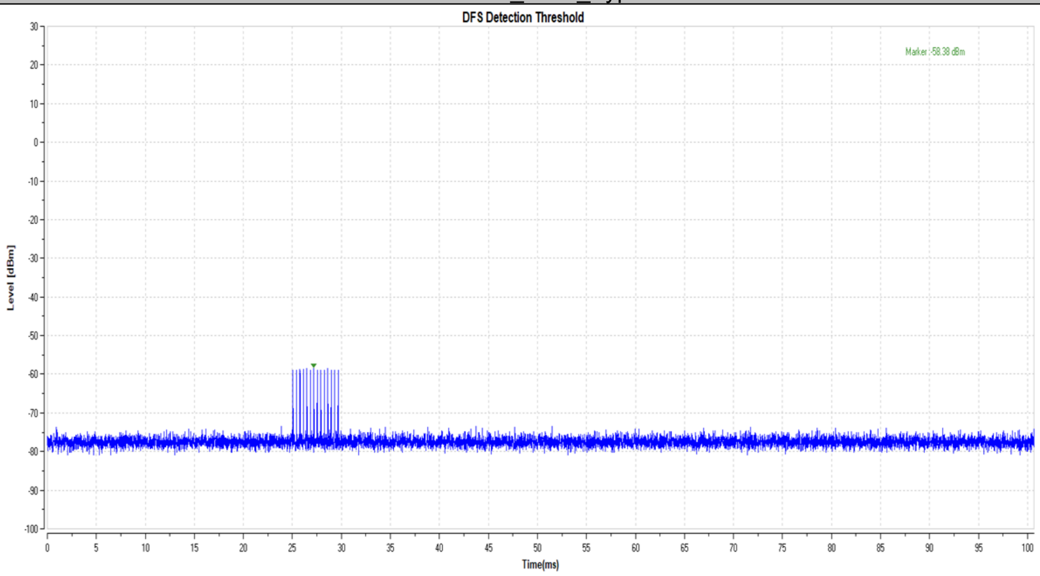
40MHz BW_5510_Type2



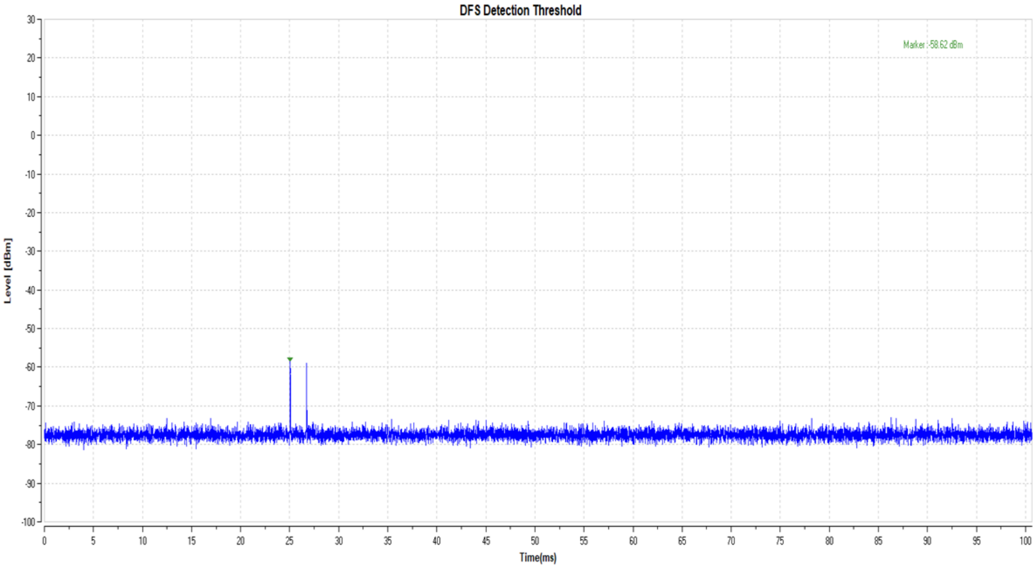
40MHz BW_5510_Type3



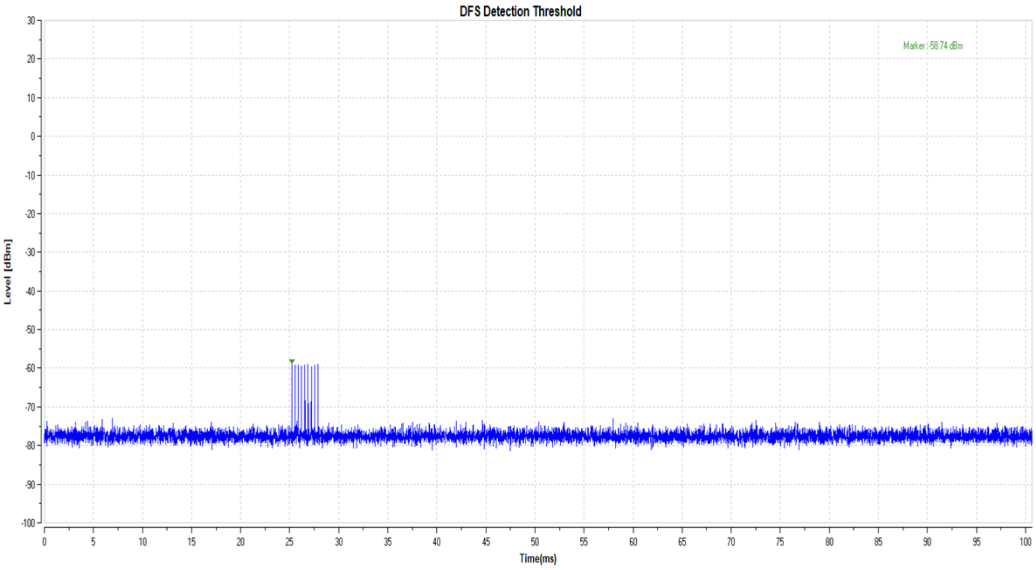
40MHz BW_5510_Type4



40MHz BW_5510_Type5



40MHz BW_5510_Type6



1.3 Channel Availability Check Time

1.3.1 Test Procedures

Test as per KDB905462 D02 section 7.8.2.
The following tests must be performed for U-NII device certification: Initial *Channel Startup Check* with a radar *Burst* at start of *Channel Availability Check* and with a radar *Burst* at end of *Channel Availability Check*; *In-Service Monitoring*; and the 30 minute *Non-Occupancy Period*.

7.8.2.1 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 (Ch_r) 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.

7.8.2.2 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*. This is illustrated in **Figure 15**.
a) The *Radar Waveform* generator and UUT are connected using the applicable test setup described in the sections on configuration for Conducted Tests (7.2) or Radiated Tests (7.3) 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. 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.

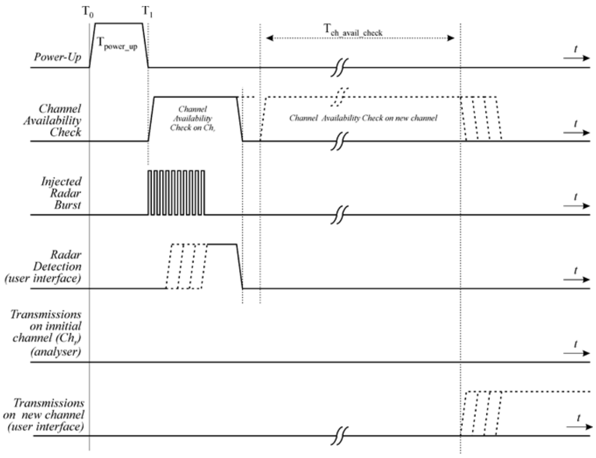


Figure 15: Example of timing for radar testing at the beginning of the Channel Availability Check Time

7.8.2.3 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*. This is illustrated in **Figure 16**.

a) The *Radar Waveform* generator and UUT are connected using the applicable test setup described in the sections for Conducted Tests (7.2) or Radiated Tests (7.3) 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.

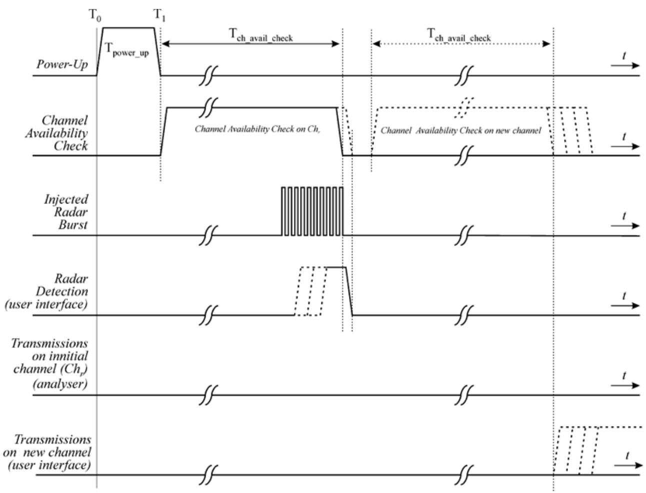


Figure 16: Example of timing for radar testing towards the end of the Channel Availability Check Time

1.3.2 Test Result

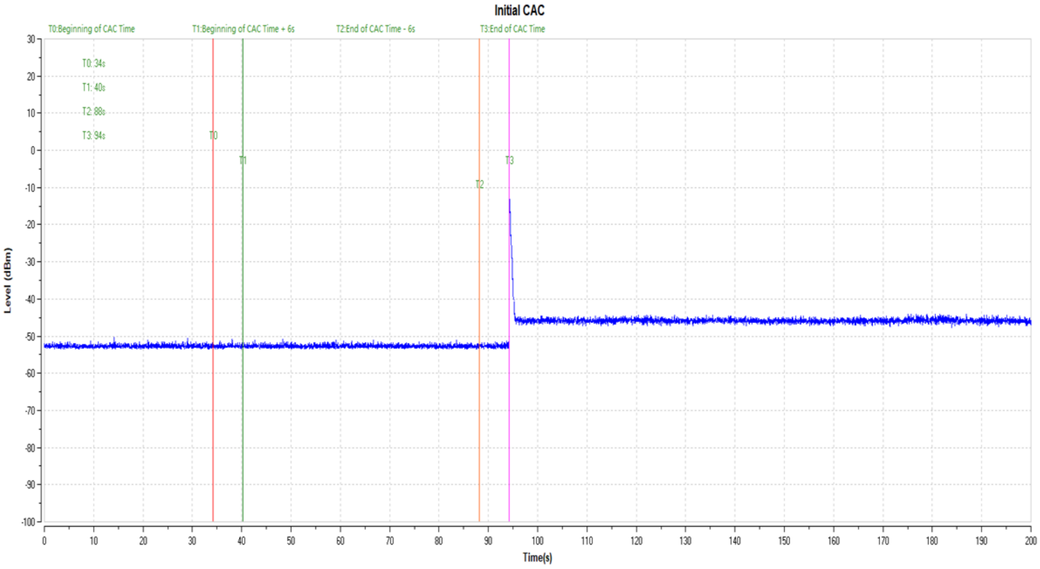
TestMode	Frequency[MHz]	Result	Verdict
40MHz BW	5510	See test Graph	PASS

TestMode	Frequency[MHz]	Result	Verdict
40MHz BW	5510	See test Graph	PASS

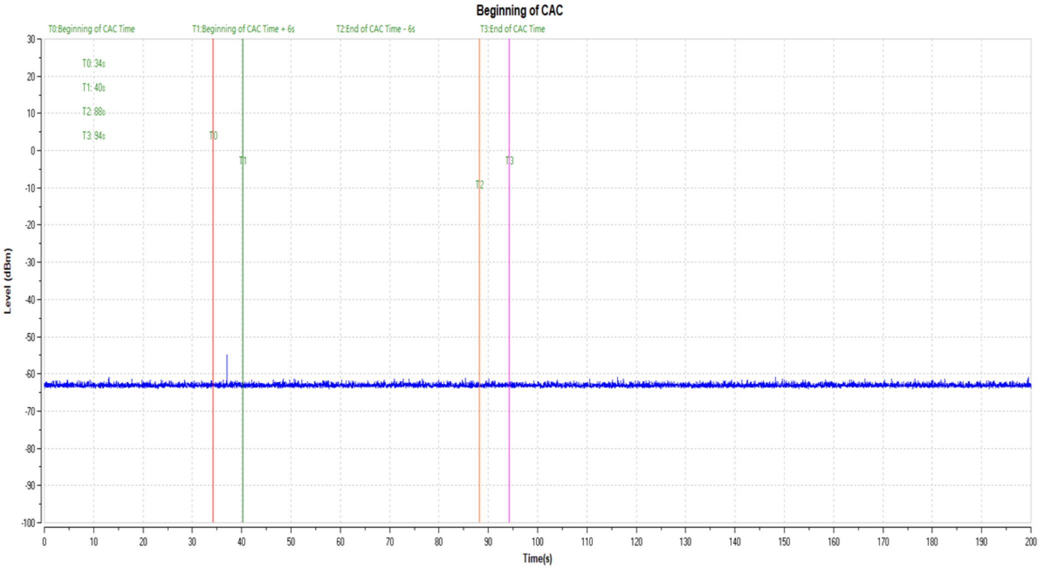
TestMode	Frequency[MHz]	Result	Verdict
40MHz BW	5510	See test Graph	PASS

1.3.3 Test Graphs

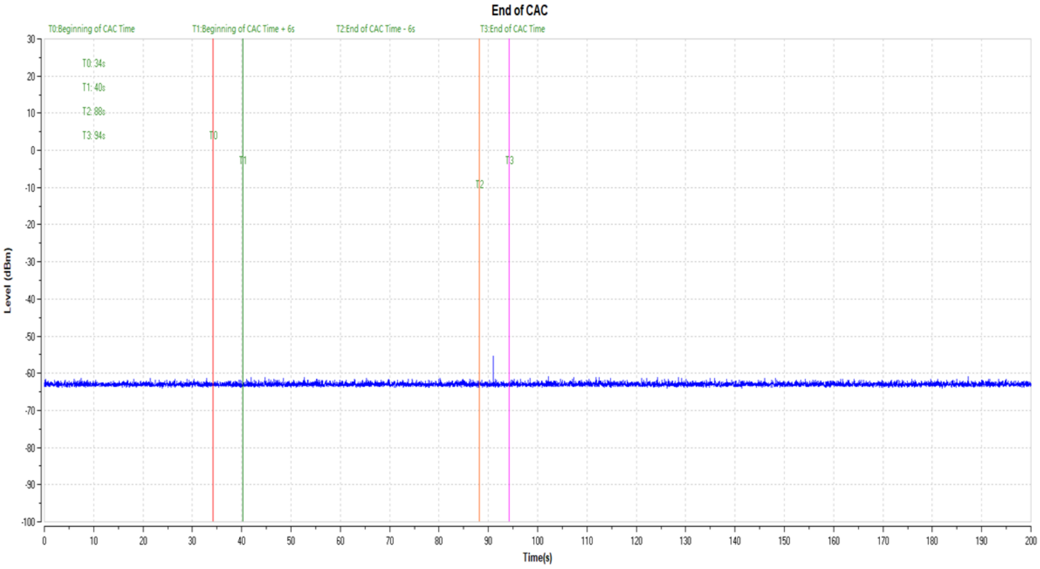
Initial Channel Availability Check Time
40MHz BW_5510



Beginning of Channel Availability Check Time
40MHz BW_5510



End of Channel Availability Check Time
40MHz BW_5510



1.4 Channel Move Time and Channel Closing Transmission Time

1.4.1 Test Procedures

Test as per KDB905462 D02 section 7.8.3.
These tests define how the following DFS parameters are verified during *In-Service Monitoring;*
- *Channel Closing Transmission Time; Channel Move Time; Non-Occupancy Period*

The steps below define the procedure to determine the above mentioned parameters 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).*
a) One frequency will be chosen from the *Operating Channels* of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands. For 802.11 devices, the test frequency must contain control signals. This can be verified by disabling channel loading and monitoring the spectrum analyzer. If no control signals are detected, another frequency must be selected within the emission bandwidth where control signals are detected.

b) In case the UUT is a U-NII device operating as a *Client Device* (with or without DFS), a U-NII device operating as a *Master Device* will be used to allow the UUT (Client device) to *Associate* with the *Master Device*. In case the UUT is a *Master Device*, a U-NII device operating as a *Client Device* will be used and it is assumed that the Client will *Associate* with the UUT (Master). In both cases for conducted tests, the *Radar Waveform* generator will be connected to the *Master Device*. For radiated tests, the emissions of the *Radar Waveform* generator will be directed towards the *Master Device*. If the *Master Device* has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.

c) 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.

d) At time T_0 the *Radar Waveform* generator sends a *Burst* of pulses for one of the Radar Type 0 in **Table 5** at levels defined in **Table 3**, on the *Operating Channel*. 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.

e) Observe the transmissions of the UUT at the end of the radar *Burst* on the *Operating Channel* for duration greater than 10 seconds. Measure and record the transmissions from the UUT during the observation time (*Channel Move Time)*. Measure and record the *Channel Move Time* and *Channel Closing Transmission Time* if radar detection occurs. **Figure 17** illustrates *Channel Closing Transmission Time.*

f) When operating as a *Master Device*, monitor the UUT for more than 30 minutes following instant T_2 to verify that the UUT does not resume any transmissions on this *Channel*. Perform this test once and record the measurement result.

g) In case the UUT is a U-NII device operating as a *Client Device* with *In-Service Monitoring*, perform steps a) to f).

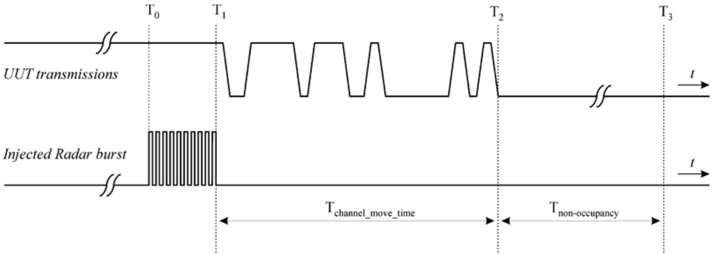
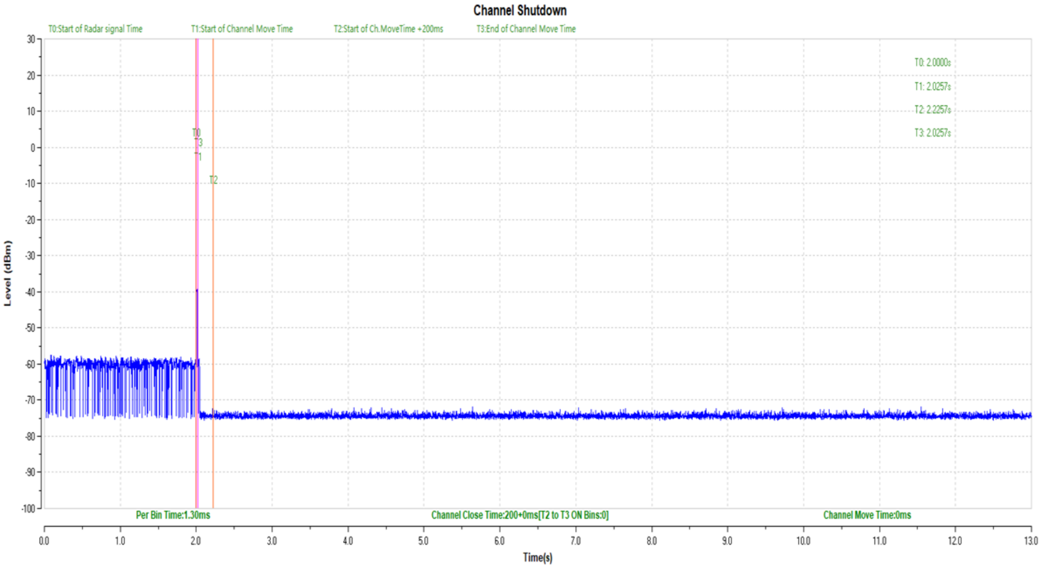


Figure 17: Example of Channel Closing Transmission Time & Channel Closing Time

1.4.2 Results

TestMode	Frequency[MHz]	CCTT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
40MHz BW	5510	200+0	200+60	0	10000	PASS

1.4.3 Test Graphs

40MHz BW_5510


1.5 Non-Occupancy Period

1.5.1 Test Procedures

Test as per KDB905462 D02 section 7.8.3.
These tests define how the following DFS parameters are verified during *In-Service Monitoring;*
- *Channel Closing Transmission Time; Channel Move Time; Non-Occupancy Period*

The steps below define the procedure to determine the above mentioned parameters 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).*
a) One frequency will be chosen from the *Operating Channels* of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands. For 802.11 devices, the test frequency must contain control signals. This can be verified by disabling channel loading and monitoring the spectrum analyzer. If no control signals are detected, another frequency must be selected within the emission bandwidth where control signals are detected.

b) In case the UUT is a U-NII device operating as a *Client Device* (with or without DFS), a U-NII device operating as a *Master Device* will be used to allow the UUT (Client device) to *Associate* with the *Master Device*. In case the UUT is a *Master Device*, a U-NII device operating as a *Client Device* will be used and it is assumed that the Client will *Associate* with the UUT (Master). In both cases for conducted tests, the *Radar Waveform* generator will be connected to the *Master Device*. For radiated tests, the emissions of the *Radar Waveform* generator will be directed towards the *Master Device*. If the *Master Device* has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.

c) 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.

d) At time T_0 the *Radar Waveform* generator sends a *Burst* of pulses for one of the Radar Type 0 in **Table 5** at levels defined in **Table 3**, on the *Operating Channel*. 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.

e) Observe the transmissions of the UUT at the end of the radar *Burst* on the *Operating Channel* for duration greater than 10 seconds. Measure and record the transmissions from the UUT during the observation time (*Channel Move Time)*. Measure and record the *Channel Move Time* and *Channel Closing Transmission Time* if radar detection occurs. **Figure 17** illustrates *Channel Closing Transmission Time.*

f) When operating as a *Master Device*, monitor the UUT for more than 30 minutes following instant T_2 to verify that the UUT does not resume any transmissions on this *Channel*. Perform this test once and record the measurement result.

g) In case the UUT is a U-NII device operating as a *Client Device* with *In-Service Monitoring*, perform steps a) to f).

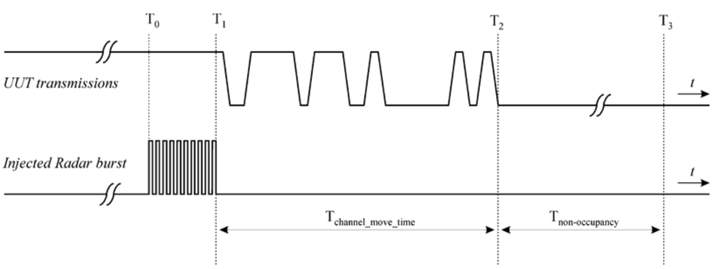


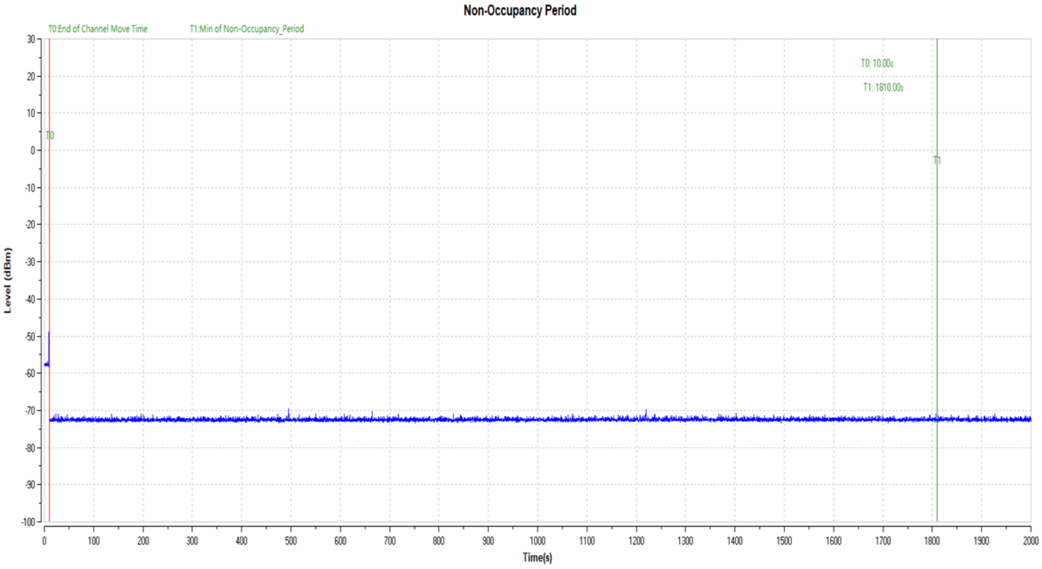
Figure 17: Example of Channel Closing Transmission Time & Channel Closing Time

1.5.2 Test Result

TestMode	Frequency[MHz]	Result	Limit[s]	Verdict
40MHz BW	5510	see test graph	≥1800	PASS

1.5.3 Test Graphs

40MHz BW_5510



1.6 U-NII Detection Bandwidth

1.6.1 Test Procedures

Test as per KDB905462 D02 section 7.8.1.

Set up the generating equipment as shown in **Figure 8**, or equivalent. Set up the DFS timing monitoring equipment as shown in **Figure 13** or **Figure 14**. Set up the overall system for either radiated or conducted coupling to the UUT.
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**.
Set the UUT up as a standalone 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.
Generate a single radar *Burst*, and note the response of the UUT. Repeat for a minimum of 10 trials. The UUT must detect the *Radar Waveform* within the DFS band using the specified *U-NII Detection Bandwidth* criterion shown in **Table 4**. 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.
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 4**. 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 F_H is not required to demonstrate compliance.
Starting at the center frequency of the UUT operating *Channel*, decrease 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 4**. Repeat this measurement in 1MHz steps at frequencies 5 MHz above where the detection rate begins to fall. Record the lowest frequency (denote as F_L) at which detection is greater than or equal to the *U-NII Detection Bandwidth* criterion. Recording the detection rate at frequencies below F_L is not required to demonstrate compliance.
The *U-NII Detection Bandwidth* is calculated as follows:
U-NII Detection Bandwidth = $F_H – F_L$
The *U-NII Detection Bandwidth* must meet the *U-NII Detection Bandwidth* criterion specified in **Table 4**. Otherwise, the UUT does not comply with DFS requirements. This is essential to ensure that the UUT is capable of detecting *Radar Waveforms* across the same frequency spectrum that contains the significant energy from the system. In the case that the *U-NII Detection Bandwidth* is greater than or equal to the 99 percent power bandwidth for the measured F_H and F_L, the test can be truncated and the *U-NII Detection Bandwidth* can be reported as the measured F_H and F_L.

Note: Both the 20MHz and 40MHz Bandwidth tested, only the worst-case reported.

1.6.2 Test Result

TestMode	Frequency[MHz]	FL[MHz]	FH[MHz]	Detection Bandwidth [MHz]	OCB [MHz]	Ratio [%]	Limit [%]	Verdict
40MHz BW	5510	5483	5535	52	35.774	145.36	≥100	PASS

Test Mode	Frequency[MHz]	Radar Freq.	Trial 1	Trial 2	Trial 3	Trial 4	Trial 5	Trial 6	Trial 7	Trial 8	Trial 9	Trial 10	Ratio (%)
40MHz BW	5510	5480	0	0	0	0	0	0	0	0	0	0	0
		5481	0	0	0	0	0	0	0	0	0	0	0
		5482	0	0	0	0	0	0	0	0	0	0	0
		5483	1	1	1	1	1	1	1	1	1	1	100
		5484	1	1	1	1	1	1	1	1	1	1	100
		5485	1	1	1	1	1	1	1	1	1	1	100
		5490	1	1	1	1	1	1	1	1	1	1	100
		5495	1	1	1	1	1	1	1	1	1	1	100
		5510	1	1	1	1	1	1	1	1	1	1	100
		5505	1	1	1	1	1	1	1	1	1	1	100
		5510	1	1	1	1	1	1	1	1	1	1	100
		5515	1	1	1	1	1	1	1	1	1	1	100
		5520	1	1	1	1	1	1	1	1	1	1	100
		5525	1	1	1	1	1	1	1	1	1	1	100
		5530	1	1	1	1	1	1	1	1	1	1	100
		5535	1	1	1	1	1	1	1	1	1	1	100
		5536	0	0	0	0	0	0	0	0	0	0	0
		5537	0	0	0	0	0	0	0	0	0	0	0
		5538	0	0	0	0	0	0	0	0	0	0	0
		5539	0	0	0	0	0	0	0	0	0	0	0
		5540	0	0	0	0	0	0	0	0	0	0	0

1.7 Statistical Performance check

1.7.1 Test Procedures

Test as per KDB905462 D02 section 7.8.4.

The steps below define the procedure to determine the minimum percentage of successful detection requirements found in **Tables 5-7** 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).*

a) One frequency will be chosen from the *Operating Channels* of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands.

b) In case the UUT is a U-NII device operating as a *Client Device* (with or without Radar Detection), a U-NII device operating as a *Master Device* will be used to allow the UUT (Client device) to *Associate* with the *Master Device*. In case the UUT is a *Master Device*, a U-NII device operating as a *Client Device* will be used and it is assumed that the Client will *Associate* with the UUT (Master). In both cases for conducted tests, the *Radar Waveform* generator will be connected to the *Master Device*. For radiated tests, the emissions of the *Radar Waveform* generator will be directed towards the *Master Device*. If the *Master Device* has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.

c) 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.

d) At time T_0 the *Radar Waveform* generator sends the individual waveform for each of the Radar Types 1- 6 in **Tables 5-7**, at levels defined in **Table 3**, on the *Operating Channel*. 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.

e) Observe the transmissions of the UUT at the end of the Burst on the *Operating Channel* for duration greater than 10 seconds for Radar Type 0 to ensure detection occurs.

f) Observe the transmissions of the UUT at the end of the Burst on the *Operating Channel* for duration greater than 22 seconds for Long Pulse Radar Type 5 to ensure detection occurs.

g) In case the UUT is a U-NII device operating as a *Client Device* with *In-Service Monitoring*, perform steps a) to f).

7.8.4.1 Short Pulse Radar Test

Once the performance requirements check is complete, statistical data will be gathered, to determine the ability of the device to detect the radar test waveforms (Short Pulse Radar Types 1-4) found in **Table 5**. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trials. The percentage of successful detection is calculated by:

$$\frac{TotalWaveformDetections}{TotalWaveformTrials} \times 100 = \text{Percentage of Successful Detection } \textit{Radar Waveform} \text{ N} = P_d N$$

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

$$\frac{P_d 1 + P_d 2 + P_d 3 + P_d 4}{4}$$

The minimum number of trails, minimum percentage of successful detection and the aggregate minimum percentage of successful detection are found in **Table 5**.

7.8.4.2 Long Pulse Radar Test

Statistical data will be gathered to determine the ability of the device to detect the Long Pulse Radar Type 5 found in **Table 6**. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trials.

Three subsets of trials will be performed with a minimum of ten trials per subset. The subset of trials differ in where the Long Pulse Type 5 Signal is tuned in frequency:

a) the *Channel* center frequency (Figure 18);

b) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the low edge of the UUT *Occupied Bandwidth* (Figure 19); and

c) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the high edge of the UUT *Occupied Bandwidth* (Figure 20).

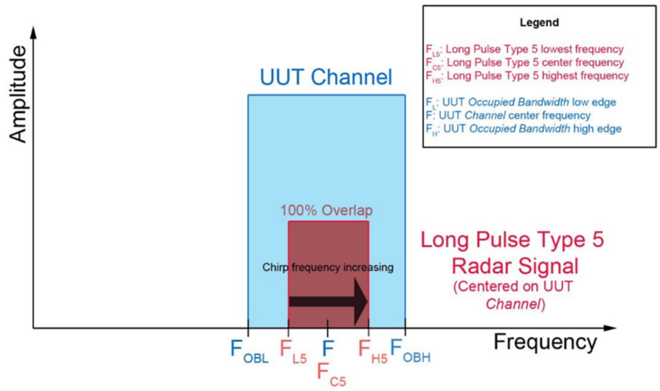


Figure 18: Example of the Relationship Between Long Pulse Type 5 Signal and the U-NII channel when the Signal is Tuned to the UUT Channel Center Frequency

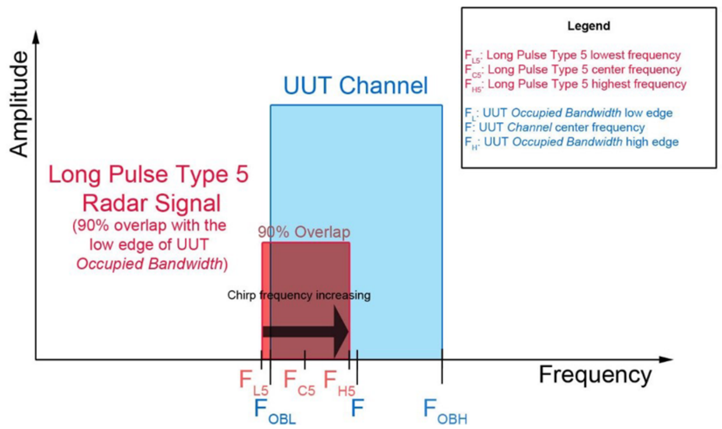


Figure 19: Example of the Relationship Between Long Pulse Type 5 Signal and the U-NII channel when the Signal is Tuned so that 90% of the Radar Signal Overlaps with the Low Edge of the UUT Occupied Bandwidth

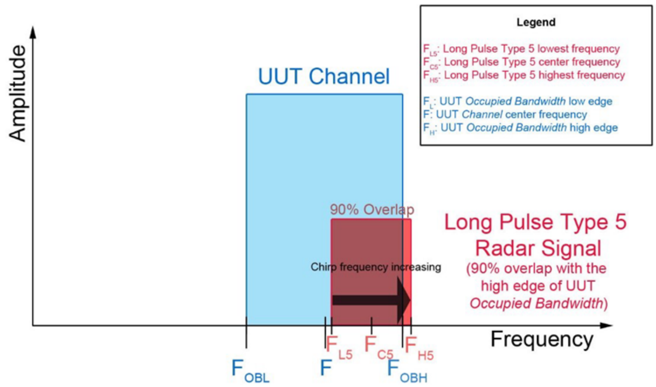


Figure 20: Example of the Relationship Between Long Pulse Type 5 Signal and the U-NII channel when the Signal is Tuned so that 90% of the Radar Signal Overlaps with the High Edge of the UUT Occupied Bandwidth

Note: Both the 20MHz and 40MHz Bandwidth tested, only the worst-case reported.

1.7.2 Test Result

TestMode	Frequency[MHz]	Radar Type	Pass Times	Fail Times	Probability (%)	Limit (%)	Verdict
40MHz BW	5510	Type1	30	0	100.00	60	PASS
		Type2	30	0	100.00	60	PASS
		Type3	30	0	100.00	60	PASS
		Type4	21	9	70.00	60	PASS
		Type5	27	3	90.00	80	PASS
		Type6	28	2	93.33	70	PASS

1.7.2.1 Parameter Data sheet for Radar Type 1-4:

Frequency [MHz]	Radar Type	Trial ID	Pulse width(μs)	PRI(μs)	Pulses per Burst	Detection (1: Yes; 0: No)
	Type1	0	1.0	938.0	57	1
	Type1	1	1.0	698.0	76	1
	Type1	2	1.0	618.0	86	1
	Type1	3	1.0	538.0	99	1
	Type1	4	1.0	878.0	61	1
	Type1	5	1.0	3066.0	18	1
	Type1	6	1.0	638.0	83	1
	Type1	7	1.0	918.0	58	1
	Type1	8	1.0	838.0	63	1
	Type1	9	1.0	858.0	62	1
	Type1	10	1.0	798.0	67	1
	Type1	11	1.0	718.0	74	1
	Type1	12	1.0	578.0	92	1
	Type1	13	1.0	598.0	89	1
	Type1	14	1.0	558.0	95	1
	Type1	15	1.0	2536.0	21	1
	Type1	16	1.0	966.0	55	1
	Type1	17	1.0	827.0	64	1
	Type1	18	1.0	2501.0	22	1
	Type1	19	1.0	2595.0	21	1
	Type1	20	1.0	1114.0	48	1
	Type1	21	1.0	1302.0	41	1
	Type1	22	1.0	3045.0	18	1
	Type1	23	1.0	1624.0	33	1
	Type1	24	1.0	2878.0	19	1
	Type1	25	1.0	1027.0	52	1
	Type1	26	1.0	2485.0	22	1
	Type1	27	1.0	1600.0	33	1
	Type1	28	1.0	1172.0	46	1
	Type1	29	1.0	1177.0	45	1
	Type2	0	3.2	179.0	26	1
	Type2	1	1.1	207.0	23	1
	Type2	2	2.1	230.0	24	1
	Type2	3	4.8	200.0	29	1
	Type2	4	3.9	214.0	28	1
	Type2	5	2.9	222.0	26	1
	Type2	6	3.2	204.0	26	1
	Type2	7	2.5	192.0	25	1
	Type2	8	3.1	164.0	26	1
	Type2	9	1.2	156.0	23	1
	Type2	10	3.9	210.0	27	1
	Type2	11	4.6	201.0	29	1
	Type2	12	3.2	162.0	26	1
	Type2	13	2.2	197.0	25	1
	Type2	14	4.5	163.0	29	1
	Type2	15	3.0	203.0	26	1
	Type2	16	5.0	168.0	29	1
	Type2	17	2.4	217.0	25	1
	Type2	18	2.9	191.0	26	1
	Type2	19	2.3	166.0	25	1
	Type2	20	3.7	150.0	27	1
	Type2	21	2.2	176.0	25	1
	Type2	22	4.9	195.0	29	1
	Type2	23	2.9	202.0	26	1
	Type2	24	2.5	178.0	25	1
	Type2	25	1.1	206.0	23	1
	Type2	26	3.8	155.0	27	1
	Type2	27	4.7	157.0	29	1

	Type2	28	2.4	224.0	25	1
	Type2	29	4.2	159.0	28	1
	Type3	0	8.2	355.0	17	1
	Type3	1	6.1	487.0	16	1
	Type3	2	7.1	344.0	16	1
	Type3	3	9.8	288.0	18	1
	Type3	4	8.9	230.0	18	1
	Type3	5	7.9	432.0	17	1
	Type3	6	8.2	207.0	17	1
	Type3	7	7.5	443.0	17	1
	Type3	8	8.1	439.0	17	1
	Type3	9	6.2	223.0	16	1
	Type3	10	8.9	208.0	18	1
	Type3	11	9.6	463.0	18	1
	Type3	12	8.2	441.0	17	1
	Type3	13	7.2	323.0	16	1
	Type3	14	9.5	297.0	18	1
	Type3	15	8.0	412.0	17	1
	Type3	16	10.0	324.0	18	1
	Type3	17	7.4	271.0	17	1
	Type3	18	7.9	349.0	17	1
	Type3	19	7.3	409.0	16	1
	Type3	20	8.7	373.0	18	1
	Type3	21	7.2	254.0	16	1
	Type3	22	9.9	274.0	18	1
	Type3	23	7.9	278.0	17	1
	Type3	24	7.5	317.0	17	1
	Type3	25	6.1	260.0	16	1
	Type3	26	8.8	211.0	18	1
	Type3	27	9.7	272.0	18	1
	Type3	28	7.4	264.0	17	1
	Type3	29	9.2	284.0	18	1
	Type4	0	16.0	355.0	14	0
	Type4	1	11.3	487.0	12	0
	Type4	2	13.5	344.0	13	0
	Type4	3	19.4	288.0	16	0
	Type4	4	17.5	230.0	15	0
	Type4	5	15.3	432.0	14	0
	Type4	6	15.9	207.0	14	1
	Type4	7	14.3	443.0	13	1
	Type4	8	15.8	439.0	14	0
	Type4	9	11.5	223.0	12	0
	Type4	10	17.4	208.0	15	1
	Type4	11	19.0	463.0	16	1
	Type4	12	16.0	441.0	14	1
	Type4	13	13.8	323.0	13	1
	Type4	14	18.9	297.0	16	1
	Type4	15	15.5	412.0	14	1
	Type4	16	19.9	324.0	16	0
	Type4	17	14.1	271.0	13	1
	Type4	18	15.2	349.0	14	0
	Type4	19	13.8	409.0	13	1
	Type4	20	17.1	373.0	15	1
	Type4	21	13.8	254.0	13	1
	Type4	22	19.8	274.0	16	1
	Type4	23	15.3	278.0	14	0
	Type4	24	14.5	317.0	13	1
	Type4	25	11.3	260.0	12	1
	Type4	26	17.3	211.0	15	1
	Type4	27	19.2	272.0	16	0
	Type4	28	14.2	264.0	13	1
	Type4	29	18.2	284.0	15	1

1.7.2.2 Parameter Data sheet for Radar Type 5:

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (µs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (µs)	PRI1 (µs)	PRI2 (µs)	PRI3 (µs)
5510	Type5	0	14	154262.0	13	3	93.5	1444.0	1130.0	1468.0
	Type5	0	13	759583.0	13	1	65.7	1512.0	---	---
	Type5	0	12	564893.0	13	2	77.6	1294.0	1671.0	---
	Type5	0	11	370624.0	13	3	94.3	1670.0	1426.0	1935.0
	Type5	0	10	177933.0	13	3	85.7	1433.0	1695.0	1394.0
	Type5	0	9	783794.0	13	1	53.2	1147.0	---	---
	Type5	0	8	588564.0	13	2	76.7	2000.0	1155.0	---
	Type5	0	7	395530.0	13	2	68.4	1587.0	1114.0	---
	Type5	0	6	201917.0	13	2	77.2	1837.0	1819.0	---
	Type5	0	5	8789.0	13	2	73.7	1198.0	1549.0	---
	Type5	0	4	611152.0	13	3	85.9	1795.0	1215.0	1729.0
	Type5	0	3	417976.0	13	3	96.6	1682.0	1786.0	1843.0
	Type5	0	2	226294.0	13	1	63.8	1584.0	---	---
	Type5	0	1	32674.0	13	1	51.9	1074.0	---	---
	Type5	0	0	636185.0	13	2	77.8	1665.0	1477.0	---

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (µs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (µs)	PRI1 (µs)	PRI2 (µs)	PRI3 (µs)
5510	Type5	1	7	200406.0	5	3	98.6	1548.0	1796.0	1728.0
	Type5	1	6	1335913.0	5	1	65.5	1543.0	---	---
	Type5	1	5	970852.0	5	3	83.8	1356.0	1292.0	1419.0
	Type5	1	4	609113.0	5	1	65.9	1432.0	---	---
	Type5	1	3	245489.0	5	2	73.6	1449.0	1041.0	---
	Type5	1	2	1379398.0	5	2	67.4	1531.0	1403.0	---
	Type5	1	1	1015643.0	5	3	99.4	1401.0	1262.0	1257.0
	Type5	1	0	653020.0	5	2	75.0	1880.0	1527.0	---

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (µs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (µs)	PRI1 (µs)	PRI2 (µs)	PRI3 (µs)
5510	Type5	2	10	871542.0	9	3	91.3	1961.0	1106.0	1001.0
	Type5	2	9	609331.0	9	1	53.7	1597.0	---	---
	Type5	2	8	344067.0	9	3	88.3	1810.0	1330.0	1838.0
	Type5	2	7	80863.0	9	2	81.9	1022.0	1689.0	---
	Type5	2	6	903714.0	9	3	89.6	1338.0	1514.0	1573.0
	Type5	2	5	641212.0	9	2	68.0	1368.0	1351.0	---
	Type5	2	4	376726.0	9	3	95.4	1060.0	1903.0	1388.0
	Type5	2	3	113209.0	9	3	84.6	1976.0	1032.0	1271.0
	Type5	2	2	938562.0	9	1	51.9	1651.0	---	---
	Type5	2	1	673692.0	9	2	69.5	1117.0	1649.0	---
	Type5	2	0	409565.0	9	2	73.8	1806.0	1538.0	---

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (μs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (μs)	PRI1 (μs)	PRI2 (μs)	PRI3 (μs)
5510	Type5	3	10	279928.0	19	3	88.0	1061.0	1928.0	1101.0
	Type5	3	1	171821.0	19	1	58.7	1251.0	---	---
	Type5	3	2	316229.0	19	2	75.3	1136.0	1640.0	---
	Type5	3	3	461864.0	19	1	56.4	1753.0	---	---
	Type5	3	4	8677.0	19	3	99.7	1196.0	1708.0	1159.0
	Type5	3	5	153995.0	19	1	57.7	1013.0	---	---
	Type5	3	6	299238.0	19	1	59.5	1072.0	---	---
	Type5	3	7	443177.0	19	2	80.0	1482.0	1369.0	---
	Type5	3	0	26541.0	19	2	68.1	1339.0	1355.0	---
	Type5	3	9	135674.0	19	2	82.8	1883.0	1005.0	---
	Type5	3	19	390012.0	19	2	67.3	1091.0	1218.0	---
	Type5	3	11	424279.0	19	3	93.2	1207.0	1907.0	1223.0
	Type5	3	12	570132.0	19	2	70.4	1526.0	1360.0	---
	Type5	3	13	117439.0	19	3	95.3	1171.0	1955.0	1775.0
	Type5	3	14	262502.0	19	2	81.9	1690.0	1545.0	---
	Type5	3	15	406573.0	19	3	98.5	1975.0	1169.0	1062.0
	Type5	3	16	553328.0	19	1	65.0	1767.0	---	---
	Type5	3	17	99799.0	19	3	85.4	1011.0	1637.0	1425.0
	Type5	3	18	244095.0	19	3	91.6	1878.0	1445.0	1325.0
	Type5	3	8	587671.0	19	2	82.0	1993.0	1197.0	---

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (μs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (μs)	PRI1 (μs)	PRI2 (μs)	PRI3 (μs)
5510	Type5	4	9	54571.0	16	3	87.1	1116.0	1996.0	1756.0
	Type5	4	1	96856.0	16	1	62.3	1957.0	---	---
	Type5	4	2	267719.0	16	1	53.3	1592.0	---	---
	Type5	4	3	436784.0	16	3	90.0	1900.0	1153.0	1346.0
	Type5	4	4	608289.0	16	2	77.1	1166.0	1646.0	---
	Type5	4	5	75610.0	16	3	83.9	1278.0	1232.0	1459.0
	Type5	4	6	245638.0	16	3	89.1	1240.0	1384.0	1939.0
	Type5	4	0	629614.0	16	2	67.9	1320.0	1133.0	---
	Type5	4	8	588736.0	16	1	50.3	1075.0	---	---
	Type5	4	16	544060.0	16	3	99.7	1150.0	1244.0	1988.0
	Type5	4	10	225175.0	16	2	71.3	1225.0	1815.0	---
	Type5	4	11	394825.0	16	3	97.5	1884.0	1465.0	1132.0
	Type5	4	12	565361.0	16	3	90.6	1561.0	1040.0	1354.0
	Type5	4	13	33643.0	16	3	86.3	1596.0	1183.0	1792.0
	Type5	4	14	203957.0	16	3	97.6	1365.0	1073.0	1361.0
	Type5	4	15	373812.0	16	3	84.7	1021.0	1718.0	1854.0
	Type5	4	7	416355.0	16	2	81.8	1833.0	1676.0	---

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (µs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (µs)	PRI1 (µs)	PRI2 (µs)	PRI3 (µs)
5510	Type5	5	13	146044.0	12	2	74.5	1264.0	1846.0	---
	Type5	5	12	792834.0	12	2	69.6	1307.0	1925.0	---
	Type5	5	11	586875.0	12	1	63.4	1568.0	---	---
	Type5	5	10	377969.0	12	3	89.4	1310.0	1594.0	1827.0
	Type5	5	9	171459.0	12	2	81.5	1891.0	1714.0	---
	Type5	5	8	818057.0	12	2	76.3	1606.0	1926.0	---
	Type5	5	7	610711.0	12	3	85.9	1134.0	1034.0	1808.0
	Type5	5	6	404955.0	12	1	65.8	1519.0	---	---
	Type5	5	5	196720.0	12	3	83.5	1679.0	1930.0	1025.0
	Type5	5	4	845342.0	12	1	53.7	1727.0	---	---
	Type5	5	3	637784.0	12	1	56.3	1851.0	---	---
	Type5	5	2	430731.0	12	1	65.8	1092.0	---	---
	Type5	5	1	222486.0	12	2	67.7	1744.0	1747.0	---
	Type5	5	0	15438.0	12	3	92.9	1085.0	1564.0	1407.0

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (µs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (µs)	PRI1 (µs)	PRI2 (µs)	PRI3 (µs)
5510	Type5	6	14	643395.0	13	3	90.6	1233.0	1562.0	1887.0
	Type5	6	13	452335.0	13	1	61.4	1451.0	---	---
	Type5	6	12	257755.0	13	3	94.9	1830.0	1070.0	1349.0
	Type5	6	11	64845.0	13	2	79.6	1882.0	1331.0	---
	Type5	6	10	667887.0	13	2	77.7	1972.0	1835.0	---
	Type5	6	9	475842.0	13	2	68.6	1008.0	1028.0	---
	Type5	6	8	282508.0	13	1	65.7	1476.0	---	---
	Type5	6	7	88645.0	13	2	79.4	1344.0	1893.0	---
	Type5	6	6	690932.0	13	3	85.3	1336.0	1504.0	1820.0
	Type5	6	5	500239.0	13	1	55.4	1145.0	---	---
	Type5	6	4	306283.0	13	1	55.8	1688.0	---	---
	Type5	6	3	112450.0	13	2	73.3	1908.0	1318.0	---
	Type5	6	2	714222.0	13	3	86.5	1923.0	1396.0	1865.0
	Type5	6	1	521718.0	13	3	96.7	1829.0	1799.0	1154.0
	Type5	6	0	329022.0	13	3	96.6	1182.0	1609.0	1581.0

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (µs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (µs)	PRI1 (µs)	PRI2 (µs)	PRI3 (µs)
5510	Type5	7	11	715825.0	10	3	87.5	1511.0	1712.0	1683.0
	Type5	7	10	475207.0	10	2	78.8	1784.0	1604.0	---
	Type5	7	9	234024.0	10	1	64.2	1138.0	---	---
	Type5	7	8	989976.0	10	1	60.9	1798.0	---	---
	Type5	7	7	747058.0	10	2	75.7	1026.0	1871.0	---
	Type5	7	6	505581.0	10	2	67.6	1175.0	1027.0	---
	Type5	7	5	263385.0	10	2	72.2	1771.0	1184.0	---
	Type5	7	4	21542.0	10	3	98.8	1544.0	1386.0	1302.0
	Type5	7	3	775564.0	10	3	97.3	1341.0	1446.0	1755.0
	Type5	7	2	533989.0	10	3	97.7	1139.0	1868.0	1805.0
	Type5	7	1	292696.0	10	3	84.1	1314.0	1725.0	1529.0
	Type5	7	0	51446.0	10	1	52.6	1210.0	---	---

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (µs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (µs)	PRI1 (µs)	PRI2 (µs)	PRI3 (µs)
5510	Type5	8	13	98172.0	13	1	64.3	1937.0	---	---
	Type5	8	12	744805.0	13	2	79.3	1274.0	1992.0	---
	Type5	8	11	537402.0	13	3	91.8	1143.0	1270.0	1347.0
	Type5	8	10	331215.0	13	1	63.0	1730.0	---	---
	Type5	8	9	123796.0	13	1	54.0	1417.0	---	---
	Type5	8	8	772314.0	13	1	50.8	1049.0	---	---
	Type5	8	7	563824.0	13	2	74.8	1149.0	1204.0	---
	Type5	8	6	356750.0	13	1	62.5	1778.0	---	---
	Type5	8	5	149042.0	13	2	80.8	1736.0	1505.0	---
	Type5	8	4	796897.0	13	2	68.4	1014.0	1099.0	---
	Type5	8	3	587395.0	13	3	99.8	1558.0	1696.0	1949.0
	Type5	8	2	382216.0	13	1	52.3	1974.0	---	---
	Type5	8	1	174965.0	13	1	50.7	1221.0	---	---
	Type5	8	0	823112.0	13	1	54.1	1415.0	---	---

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (µs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (µs)	PRI1 (µs)	PRI2 (µs)	PRI3 (µs)
5510	Type5	9	7	82296.0	6	3	95.4	1580.0	1555.0	1791.0
	Type5	9	6	1217152.0	6	1	54.3	1991.0	---	---
	Type5	9	5	852409.0	6	3	88.7	1293.0	1934.0	1273.0
	Type5	9	4	490358.0	6	2	74.2	1280.0	1219.0	---
	Type5	9	3	127106.0	6	2	78.7	1466.0	1743.0	---
	Type5	9	2	1259235.0	6	3	97.2	1973.0	1605.0	1583.0
	Type5	9	1	898668.0	6	1	52.0	1863.0	---	---
	Type5	9	0	535615.0	6	1	63.4	1043.0	---	---

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (µs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (µs)	PRI1 (µs)	PRI2 (µs)	PRI3 (µs)
5510	Type5	10	9	338262.0	16	1	59.1	1697.0	---	---
	Type5	10	1	378386.0	16	3	97.4	1942.0	1754.0	1613.0
	Type5	10	2	548411.0	16	3	91.7	1999.0	1702.0	1462.0
	Type5	10	3	17733.0	16	1	66.2	1393.0	---	---
	Type5	10	4	187952.0	16	2	70.8	1968.0	1821.0	---
	Type5	10	5	359277.0	16	1	52.3	1740.0	---	---
	Type5	10	6	528886.0	16	2	78.9	1308.0	1984.0	---
	Type5	10	0	209249.0	16	2	73.7	1208.0	1497.0	---
	Type5	10	8	167197.0	16	2	75.6	1437.0	1430.0	---
	Type5	10	16	125509.0	16	1	59.3	1093.0	---	---
	Type5	10	10	508324.0	16	2	77.0	1397.0	1304.0	---
	Type5	10	11	678689.0	16	2	67.9	1803.0	1083.0	---
	Type5	10	12	146031.0	16	2	81.2	1720.0	1932.0	---
	Type5	10	13	316923.0	16	2	78.7	1247.0	1121.0	---
	Type5	10	14	488056.0	16	1	63.3	1634.0	---	---
	Type5	10	15	657326.0	16	2	68.9	1849.0	1423.0	---
	Type5	10	7	700166.0	16	2	70.9	1050.0	1358.0	---

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (µs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (µs)	PRI1 (µs)	PRI2 (µs)	PRI3 (µs)
5510	Type5	11	10	533408.0	19	1	65.6	1017.0	---	---
	Type5	11	1	416459.0	19	2	82.3	1716.0	1855.0	---
	Type5	11	2	567902.0	19	3	86.7	1211.0	1400.0	1919.0
	Type5	11	3	92979.0	19	3	89.7	1861.0	1068.0	1282.0
	Type5	11	4	245155.0	19	3	98.6	1507.0	1194.0	1461.0
	Type5	11	5	397609.0	19	2	71.1	1921.0	1789.0	---
	Type5	11	6	551431.0	19	1	55.9	1947.0	---	---
	Type5	11	7	74413.0	19	2	67.9	1350.0	1372.0	---
	Type5	11	0	263736.0	19	3	98.9	1381.0	1680.0	1488.0
	Type5	11	9	380056.0	19	1	58.8	1715.0	---	---
	Type5	11	18	495737.0	19	1	55.0	1012.0	---	---
	Type5	11	11	55547.0	19	2	78.5	1911.0	1704.0	---
	Type5	11	12	207876.0	19	2	82.3	1845.0	1686.0	---
	Type5	11	13	359771.0	19	3	90.1	1938.0	1071.0	1266.0
	Type5	11	14	511297.0	19	3	90.2	1989.0	1089.0	1950.0
	Type5	11	15	36803.0	19	2	83.1	1943.0	1406.0	---
	Type5	11	16	189652.0	19	1	58.8	1742.0	---	---
	Type5	11	17	341809.0	19	2	77.0	1187.0	1657.0	---
	Type5	11	8	226559.0	19	3	84.4	1203.0	1107.0	1443.0

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (µs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (µs)	PRI1 (µs)	PRI2 (µs)	PRI3 (µs)
5510	Type5	12	14	337856.0	13	2	69.3	1731.0	1717.0	---
	Type5	12	13	144710.0	13	2	78.3	1258.0	1951.0	---
	Type5	12	12	747241.0	13	3	88.7	1703.0	1528.0	1058.0
	Type5	12	11	553866.0	13	3	84.7	1533.0	1677.0	1638.0
	Type5	12	10	361606.0	13	2	83.2	1692.0	1858.0	---
	Type5	12	9	168898.0	13	1	61.4	1390.0	---	---
	Type5	12	8	773423.0	13	1	64.7	1800.0	---	---
	Type5	12	7	579862.0	13	1	53.8	1763.0	---	---
	Type5	12	6	385590.0	13	2	78.5	1238.0	1917.0	---
	Type5	12	5	192251.0	13	2	79.9	1626.0	1859.0	---
	Type5	12	4	794160.0	13	3	95.9	1399.0	1906.0	1608.0
	Type5	12	3	603671.0	13	1	60.2	1812.0	---	---
	Type5	12	2	410004.0	13	1	59.9	1971.0	---	---
	Type5	12	1	216473.0	13	1	52.1	1910.0	---	---
	Type5	12	0	22911.0	13	1	58.1	1929.0	---	---

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (µs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (µs)	PRI1 (µs)	PRI2 (µs)	PRI3 (µs)
5510	Type5	13	11	333050.0	10	3	92.4	1412.0	1673.0	1322.0
	Type5	13	10	91871.0	10	1	63.3	1328.0	---	---
	Type5	13	9	846453.0	10	3	93.6	1059.0	1031.0	1452.0
	Type5	13	8	604342.0	10	3	86.4	1779.0	1439.0	1046.0
	Type5	13	7	362696.0	10	3	98.4	1873.0	1550.0	1249.0
	Type5	13	6	121278.0	10	3	85.7	1547.0	1362.0	1924.0
	Type5	13	5	876993.0	10	2	76.3	1359.0	1305.0	---
	Type5	13	4	635093.0	10	2	75.2	1421.0	1267.0	---
	Type5	13	3	393746.0	10	1	55.6	1337.0	---	---
	Type5	13	2	151316.0	10	2	67.7	1617.0	1185.0	---
	Type5	13	1	907886.0	10	1	56.3	1456.0	---	---
	Type5	13	0	664275.0	10	2	75.3	1994.0	1612.0	---

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (µs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (µs)	PRI1 (µs)	PRI2 (µs)	PRI3 (µs)
5510	Type5	14	10	1489.0	18	2	72.0	1909.0	1297.0	---
	Type5	14	1	515261.0	18	2	69.1	1102.0	1794.0	---
	Type5	14	2	39025.0	18	3	86.9	1044.0	1152.0	1148.0
	Type5	14	3	190900.0	18	3	84.9	1894.0	1948.0	1118.0
	Type5	14	4	343941.0	18	2	72.3	1094.0	1916.0	---
	Type5	14	5	497624.0	18	1	51.7	1447.0	---	---
	Type5	14	6	20319.0	18	1	58.3	1429.0	---	---
	Type5	14	7	172999.0	18	1	60.8	1979.0	---	---
	Type5	14	0	361323.0	18	3	93.3	1983.0	1912.0	1535.0
	Type5	14	9	475841.0	18	3	88.9	1886.0	1964.0	1489.0
	Type5	14	18	592780.0	18	2	74.1	1471.0	1245.0	---
	Type5	14	11	153647.0	18	3	90.9	1261.0	1566.0	1370.0
	Type5	14	12	307096.0	18	1	59.8	1552.0	---	---
	Type5	14	13	458804.0	18	2	70.0	1759.0	1291.0	---
	Type5	14	14	610798.0	18	2	67.2	1625.0	1881.0	---
	Type5	14	15	134759.0	18	3	91.2	1382.0	1832.0	1661.0
	Type5	14	16	288306.0	18	1	56.5	1483.0	---	---
	Type5	14	17	441296.0	18	1	51.2	1237.0	---	---
	Type5	14	8	325872.0	18	1	57.1	1641.0	---	---

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (µs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (µs)	PRI1 (µs)	PRI2 (µs)	PRI3 (µs)
5510	Type5	15	13	288948.0	12	2	82.5	1404.0	1019.0	---
	Type5	15	12	81611.0	12	2	66.7	1722.0	1122.0	---
	Type5	15	11	728517.0	12	2	73.6	1524.0	1553.0	---
	Type5	15	10	522447.0	12	1	53.8	1327.0	---	---
	Type5	15	9	314500.0	12	2	72.4	1030.0	1343.0	---
	Type5	15	8	107117.0	12	2	78.7	1804.0	1168.0	---
	Type5	15	7	755333.0	12	1	51.7	1603.0	---	---
	Type5	15	6	548208.0	12	1	53.2	1024.0	---	---
	Type5	15	5	340207.0	12	1	65.4	1944.0	---	---
	Type5	15	4	132455.0	12	3	83.8	1410.0	1097.0	1621.0
	Type5	15	3	780619.0	12	1	64.7	1902.0	---	---
	Type5	15	2	573452.0	12	1	62.9	1520.0	---	---
	Type5	15	1	366024.0	12	1	50.2	1316.0	---	---
	Type5	15	0	158286.0	12	2	76.9	1110.0	1140.0	---

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (μs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (μs)	PRI1 (μs)	PRI2 (μs)	PRI3 (μs)
5510	Type5	16	10	3515.0	20	3	86.4	1773.0	1966.0	1263.0
	Type5	16	1	490019.0	20	3	85.2	1735.0	1541.0	1408.0
	Type5	16	2	39073.0	20	3	84.8	1534.0	1889.0	1463.0
	Type5	16	3	183923.0	20	2	77.9	1749.0	1460.0	---
	Type5	16	4	328777.0	20	2	76.5	1518.0	1485.0	---
	Type5	16	5	474728.0	20	1	60.9	1540.0	---	---
	Type5	16	6	21394.0	20	2	83.0	1080.0	1010.0	---
	Type5	16	7	165992.0	20	2	80.4	1824.0	1752.0	---
	Type5	16	0	345766.0	20	3	87.6	1565.0	1055.0	1840.0
	Type5	16	9	456884.0	20	1	62.1	1495.0	---	---
	Type5	16	19	112787.0	20	2	69.5	1038.0	1224.0	---
	Type5	16	11	147928.0	20	3	84.3	1593.0	1188.0	1788.0
	Type5	16	12	293225.0	20	2	76.9	1226.0	1537.0	---
	Type5	16	13	436922.0	20	3	95.8	1192.0	1298.0	1844.0
	Type5	16	14	584015.0	20	1	55.2	1644.0	---	---
	Type5	16	15	130832.0	20	1	59.0	1402.0	---	---
	Type5	16	16	274684.0	20	3	94.5	1296.0	1700.0	1283.0
	Type5	16	17	418579.0	20	3	91.9	1970.0	1978.0	1165.0
	Type5	16	18	563464.0	20	3	85.2	1732.0	1551.0	1189.0
	Type5	16	8	310973.0	20	2	67.5	1764.0	1181.0	---

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (μs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (μs)	PRI1 (μs)	PRI2 (μs)	PRI3 (μs)
5510	Type5	17	11	98897.0	10	1	65.3	1709.0	---	---
	Type5	17	10	855665.0	10	1	53.3	1016.0	---	---
	Type5	17	9	611194.0	10	3	88.4	1374.0	1579.0	1623.0
	Type5	17	8	370379.0	10	2	79.6	1239.0	1705.0	---
	Type5	17	7	128373.0	10	3	100.0	1375.0	1438.0	1595.0
	Type5	17	6	883823.0	10	2	69.1	1279.0	1639.0	---
	Type5	17	5	641915.0	10	2	69.4	1503.0	1546.0	---
	Type5	17	4	400824.0	10	1	53.1	1303.0	---	---
	Type5	17	3	158603.0	10	1	54.3	1335.0	---	---
	Type5	17	2	912880.0	10	2	80.4	1816.0	1899.0	---
	Type5	17	1	670241.0	10	3	92.2	1598.0	1719.0	1895.0
	Type5	17	0	429224.0	10	3	86.4	1259.0	1918.0	1455.0

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (µs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (µs)	PRI1 (µs)	PRI2 (µs)	PRI3 (µs)
5510	Type5	18	13	421325.0	12	3	99.5	1299.0	1965.0	1869.0
	Type5	18	12	215435.0	12	2	78.4	1047.0	1109.0	---
	Type5	18	11	8083.0	12	1	50.7	1234.0	---	---
	Type5	18	10	654516.0	12	2	82.7	1710.0	1990.0	---
	Type5	18	9	447400.0	12	3	96.6	1525.0	1036.0	1385.0
	Type5	18	8	240319.0	12	3	91.1	1539.0	1783.0	1172.0
	Type5	18	7	33519.0	12	3	90.3	1660.0	1853.0	1123.0
	Type5	18	6	680544.0	12	2	80.0	1119.0	1913.0	---
	Type5	18	5	474469.0	12	1	63.3	1095.0	---	---
	Type5	18	4	266161.0	12	2	82.5	1875.0	1431.0	---
	Type5	18	3	58989.0	12	3	84.8	1131.0	1761.0	1721.0
	Type5	18	2	706377.0	12	2	72.3	1610.0	1039.0	---
	Type5	18	1	499633.0	12	1	58.3	1797.0	---	---
	Type5	18	0	292143.0	12	1	55.3	1920.0	---	---

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (µs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (µs)	PRI1 (µs)	PRI2 (µs)	PRI3 (µs)
5510	Type5	19	11	403553.0	10	2	80.4	1850.0	1436.0	---
	Type5	19	10	162176.0	10	1	54.8	1084.0	---	---
	Type5	19	9	915842.0	10	3	95.4	1020.0	1892.0	1414.0
	Type5	19	8	674004.0	10	3	96.2	1391.0	1787.0	1672.0
	Type5	19	7	432561.0	10	3	97.3	1790.0	1896.0	1367.0
	Type5	19	6	191373.0	10	3	88.4	1997.0	1077.0	1366.0
	Type5	19	5	947923.0	10	1	62.0	1866.0	---	---
	Type5	19	4	705071.0	10	2	77.9	1642.0	1317.0	---
	Type5	19	3	462915.0	10	2	69.7	1751.0	1945.0	---
	Type5	19	2	221197.0	10	3	96.6	1086.0	1658.0	1324.0
	Type5	19	1	977882.0	10	1	57.4	1723.0	---	---
	Type5	19	0	733725.0	10	3	88.6	1501.0	1067.0	1927.0

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (µs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (µs)	PRI1 (µs)	PRI2 (µs)	PRI3 (µs)
5510	Type5	20	8	438554.0	15	2	79.0	1777.0	1960.0	---
	Type5	20	1	666072.0	15	1	57.1	1560.0	---	---
	Type5	20	2	98810.0	15	3	91.9	1392.0	1475.0	1276.0
	Type5	20	3	279914.0	15	2	83.1	1809.0	1772.0	---
	Type5	20	4	462536.0	15	1	50.7	1003.0	---	---
	Type5	20	5	642324.0	15	2	79.2	1574.0	1600.0	---
	Type5	20	0	483470.0	15	2	74.7	1619.0	1611.0	---
	Type5	20	7	257785.0	15	2	71.0	1521.0	1567.0	---
	Type5	20	15	212751.0	15	3	94.9	1450.0	1206.0	1860.0
	Type5	20	9	620397.0	15	2	68.5	1284.0	1428.0	---
	Type5	20	10	54310.0	15	2	73.5	1904.0	1352.0	---
	Type5	20	11	235506.0	15	2	70.5	1864.0	1115.0	---
	Type5	20	12	417036.0	15	2	76.6	1045.0	1300.0	---
	Type5	20	13	597974.0	15	2	81.2	1160.0	1675.0	---
	Type5	20	14	32086.0	15	1	61.8	1277.0	---	---
	Type5	20	6	76831.0	15	1	58.7	1186.0	---	---

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (μs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (μs)	PRI1 (μs)	PRI2 (μs)	PRI3 (μs)
5510	Type5	21	11	194839.0	9	3	91.4	1768.0	1726.0	1227.0
	Type5	21	10	951847.0	9	1	60.4	1453.0	---	---
	Type5	21	9	709720.0	9	1	59.9	1379.0	---	---
	Type5	21	8	467279.0	9	1	53.4	1901.0	---	---
	Type5	21	7	225249.0	9	1	61.6	1724.0	---	---
	Type5	21	6	980872.0	9	2	80.9	1220.0	1053.0	---
	Type5	21	5	739728.0	9	1	53.6	1144.0	---	---
	Type5	21	4	496588.0	9	2	76.0	1112.0	1811.0	---
	Type5	21	3	254612.0	9	2	79.6	1633.0	1890.0	---
	Type5	21	2	12955.0	9	1	59.4	1982.0	---	---
	Type5	21	1	767135.0	9	3	89.8	1174.0	1962.0	1167.0
	Type5	21	0	526149.0	9	2	78.5	1653.0	1698.0	---

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (μs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (μs)	PRI1 (μs)	PRI2 (μs)	PRI3 (μs)
5510	Type5	22	10	514197.0	20	3	95.9	1659.0	1870.0	1066.0
	Type5	22	1	407646.0	20	1	58.1	1248.0	---	---
	Type5	22	2	552319.0	20	1	62.1	1836.0	---	---
	Type5	22	3	99107.0	20	2	76.9	1334.0	1236.0	---
	Type5	22	4	243514.0	20	2	80.0	1914.0	1852.0	---
	Type5	22	5	389464.0	20	1	52.0	1701.0	---	---
	Type5	22	6	531093.0	20	3	88.6	1693.0	1995.0	1905.0
	Type5	22	7	81159.0	20	2	72.9	1922.0	1387.0	---
	Type5	22	0	261858.0	20	2	77.0	1191.0	1363.0	---
	Type5	22	9	371906.0	20	1	57.9	1193.0	---	---
	Type5	22	19	27594.0	20	3	96.8	1760.0	1614.0	1817.0
	Type5	22	11	63561.0	20	1	53.5	1162.0	---	---
	Type5	22	12	207510.0	20	3	92.0	1745.0	1654.0	1458.0
	Type5	22	13	353638.0	20	1	57.3	1834.0	---	---
	Type5	22	14	497515.0	20	2	70.5	1684.0	1586.0	---
	Type5	22	15	45553.0	20	2	70.0	1042.0	1664.0	---
	Type5	22	16	189821.0	20	3	84.0	1765.0	1630.0	1176.0
	Type5	22	17	335330.0	20	2	76.1	1557.0	1057.0	---
	Type5	22	18	478825.0	20	3	93.2	1985.0	1018.0	1340.0
	Type5	22	8	225245.0	20	3	98.5	1839.0	1746.0	1389.0

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (μs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (μs)	PRI1 (μs)	PRI2 (μs)	PRI3 (μs)
5510	Type5	23	13	377306.0	12	2	67.4	1872.0	1313.0	---
	Type5	23	12	170267.0	12	2	68.7	1377.0	1441.0	---
	Type5	23	11	815229.0	12	3	90.9	1615.0	1862.0	1601.0
	Type5	23	10	610202.0	12	2	79.7	1588.0	1214.0	---
	Type5	23	9	403231.0	12	2	80.2	1098.0	1209.0	---
	Type5	23	8	195585.0	12	2	76.2	1940.0	1770.0	---
	Type5	23	7	843157.0	12	2	71.1	1329.0	1243.0	---
	Type5	23	6	636681.0	12	1	54.4	1517.0	---	---
	Type5	23	5	428367.0	12	2	75.2	1572.0	1536.0	---
	Type5	23	4	220734.0	12	3	86.0	1953.0	1108.0	1987.0
	Type5	23	3	14140.0	12	1	56.3	1056.0	---	---
	Type5	23	2	660875.0	12	2	68.8	1707.0	1577.0	---
	Type5	23	1	453362.0	12	3	93.5	1590.0	1081.0	1413.0
	Type5	23	0	247117.0	12	1	50.1	1841.0	---	---

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (μs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (μs)	PRI1 (μs)	PRI2 (μs)	PRI3 (μs)
5510	Type5	24	12	546278.0	11	3	87.7	1435.0	1963.0	1164.0
	Type5	24	11	324661.0	11	1	55.8	1290.0	---	---
	Type5	24	10	100737.0	11	3	94.0	1009.0	1629.0	1956.0
	Type5	24	9	798431.0	11	2	70.5	1141.0	1178.0	---
	Type5	24	8	573425.0	11	3	96.5	1607.0	1822.0	1602.0
	Type5	24	7	351161.0	11	3	89.0	1493.0	1135.0	1380.0
	Type5	24	6	128265.0	11	3	92.6	1065.0	1669.0	1222.0
	Type5	24	5	825462.0	11	2	74.5	1569.0	1281.0	---
	Type5	24	4	601331.0	11	3	90.6	1217.0	1582.0	1498.0
	Type5	24	3	378734.0	11	3	96.7	1230.0	1163.0	1332.0
	Type5	24	2	156223.0	11	1	56.3	1006.0	---	---
	Type5	24	1	853391.0	11	2	70.8	1177.0	1201.0	---
	Type5	24	0	628071.0	11	3	94.0	1643.0	1748.0	1941.0

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (μs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (μs)	PRI1 (μs)	PRI2 (μs)	PRI3 (μs)
5510	Type5	25	7	800152.0	5	3	91.2	1409.0	1681.0	1275.0
	Type5	25	6	438300.0	5	1	63.7	1333.0	---	---
	Type5	25	5	74748.0	5	2	66.8	1576.0	1323.0	---
	Type5	25	4	1208428.0	5	2	77.4	1793.0	1510.0	---
	Type5	25	3	845641.0	5	2	77.7	1776.0	1158.0	---
	Type5	25	2	482958.0	5	1	60.9	1687.0	---	---
	Type5	25	1	119486.0	5	2	83.1	1420.0	1315.0	---
	Type5	25	0	1253842.0	5	2	68.6	1306.0	1161.0	---

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (μs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (μs)	PRI1 (μs)	PRI2 (μs)	PRI3 (μs)
5510	Type5	26	9	675297.0	16	2	78.3	1591.0	1082.0	---
	Type5	26	1	14067.0	16	3	89.4	1173.0	1627.0	1656.0
	Type5	26	2	184953.0	16	1	55.8	1532.0	---	---
	Type5	26	3	353759.0	16	3	90.9	1981.0	1554.0	1998.0
	Type5	26	4	526388.0	16	1	54.7	1825.0	---	---
	Type5	26	5	694806.0	16	3	97.7	1734.0	1202.0	1250.0
	Type5	26	6	163568.0	16	2	67.5	1571.0	1434.0	---
	Type5	26	0	545865.0	16	3	83.6	1632.0	1195.0	1000.0
	Type5	26	8	504006.0	16	2	68.3	1750.0	1954.0	---
	Type5	26	16	461322.0	16	3	87.3	1931.0	1051.0	1831.0
	Type5	26	10	142890.0	16	1	55.0	1427.0	---	---
	Type5	26	11	312479.0	16	3	84.9	1129.0	1936.0	1199.0
	Type5	26	12	482953.0	16	2	74.6	1959.0	1856.0	---
	Type5	26	13	655022.0	16	1	63.3	1885.0	---	---
	Type5	26	14	121457.0	16	3	99.8	1035.0	1515.0	1120.0
	Type5	26	15	292606.0	16	1	63.6	1647.0	---	---
	Type5	26	7	333410.0	16	3	96.7	1589.0	1469.0	1268.0

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (μs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (μs)	PRI1 (μs)	PRI2 (μs)	PRI3 (μs)
5510	Type5	27	10	204582.0	19	3	88.1	1023.0	1124.0	1631.0
	Type5	27	1	89970.0	19	2	68.6	1029.0	1780.0	---
	Type5	27	2	243121.0	19	1	54.2	1111.0	---	---
	Type5	27	3	396034.0	19	1	61.2	1104.0	---	---
	Type5	27	4	546225.0	19	3	97.1	1157.0	1969.0	1100.0
	Type5	27	5	70998.0	19	3	98.3	1142.0	1699.0	1622.0
	Type5	27	6	224093.0	19	1	62.4	1655.0	---	---
	Type5	27	7	376127.0	19	2	80.2	1126.0	1769.0	---
	Type5	27	0	565136.0	19	3	85.6	1946.0	1078.0	1015.0
	Type5	27	9	52247.0	19	3	85.8	1847.0	1348.0	1472.0
	Type5	27	18	167387.0	19	2	81.5	1491.0	1103.0	---
	Type5	27	11	357941.0	19	1	65.3	1848.0	---	---
	Type5	27	12	510977.0	19	1	52.5	1470.0	---	---
	Type5	27	13	33698.0	19	1	52.3	1312.0	---	---
	Type5	27	14	186023.0	19	2	74.1	1915.0	1200.0	---
	Type5	27	15	339327.0	19	1	54.9	1479.0	---	---
	Type5	27	16	491053.0	19	2	76.2	1376.0	1502.0	---
	Type5	27	17	14858.0	19	1	60.4	1758.0	---	---
	Type5	27	8	527806.0	19	3	87.5	1216.0	1448.0	1179.0

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (µs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (µs)	PRI1 (µs)	PRI2 (µs)	PRI3 (µs)
5510	Type5	28	11	176231.0	10	1	55.3	1522.0	---	---
	Type5	28	10	932305.0	10	1	63.1	1782.0	---	---
	Type5	28	9	689225.0	10	2	70.9	1578.0	1620.0	---
	Type5	28	8	446940.0	10	3	89.0	1260.0	1706.0	1411.0
	Type5	28	7	205370.0	10	3	92.2	1898.0	1252.0	1713.0
	Type5	28	6	960895.0	10	2	78.1	1301.0	1757.0	---
	Type5	28	5	718312.0	10	3	92.3	1180.0	1486.0	1492.0
	Type5	28	4	477675.0	10	2	75.1	1254.0	1052.0	---
	Type5	28	3	235634.0	10	2	76.9	1125.0	1474.0	---
	Type5	28	2	989003.0	10	3	85.8	1774.0	1002.0	1967.0
	Type5	28	1	750249.0	10	1	55.7	1246.0	---	---
	Type5	28	0	507709.0	10	1	50.5	1857.0	---	---

Channel	Radar Type	Trial ID	Burst ID	Burst Offset (µs)	Chirp Width (MHz)	Number Of Pulses	Pulse Width (µs)	PRI1 (µs)	PRI2 (µs)	PRI3 (µs)
5510	Type5	29	9	398605.0	17	3	93.5	1867.0	1373.0	1087.0
	Type5	29	1	437880.0	17	3	97.3	1319.0	1826.0	1635.0
	Type5	29	2	598445.0	17	3	90.4	1079.0	1986.0	1674.0
	Type5	29	3	97088.0	17	3	91.8	1563.0	1151.0	1802.0
	Type5	29	4	257251.0	17	3	98.2	1876.0	1977.0	1766.0
	Type5	29	5	419893.0	17	1	59.5	1952.0	---	---
	Type5	29	6	580724.0	17	2	80.0	1253.0	1137.0	---
	Type5	29	0	277485.0	17	3	83.4	1454.0	1205.0	1801.0
	Type5	29	8	238032.0	17	3	91.1	1105.0	1599.0	1442.0
	Type5	29	17	359754.0	17	2	81.0	1326.0	1668.0	---
	Type5	29	10	562025.0	17	1	60.7	1033.0	---	---
	Type5	29	11	57684.0	17	2	67.2	1288.0	1405.0	---
	Type5	29	12	219083.0	17	1	61.8	1585.0	---	---
	Type5	29	13	379234.0	17	2	79.4	1933.0	1667.0	---
	Type5	29	14	540896.0	17	2	81.4	1096.0	1464.0	---
	Type5	29	15	37916.0	17	1	65.7	1496.0	---	---
	Type5	29	16	198794.0	17	2	76.0	1733.0	1255.0	---
	Type5	29	7	77366.0	17	3	86.5	1054.0	1128.0	1828.0

1.7.2.3 Parameter Data sheet for Radar Type 6:

Frequency[MHz]	Radar Type	Trial ID	Pulse width (µs)	PRI (µs)	Pulses per Hop	Detection (1: Yes; 0: No)
5510	Type6	0	1	333.3	9	1
	Type6	1	1	333.3	9	1
	Type6	2	1	333.3	9	1
	Type6	3	1	333.3	9	1
	Type6	4	1	333.3	9	1
	Type6	5	1	333.3	9	0
	Type6	6	1	333.3	9	1
	Type6	7	1	333.3	9	1
	Type6	8	1	333.3	9	1
	Type6	9	1	333.3	9	1
	Type6	10	1	333.3	9	1
	Type6	11	1	333.3	9	1
	Type6	12	1	333.3	9	1
	Type6	13	1	333.3	9	1
	Type6	14	1	333.3	9	1
	Type6	15	1	333.3	9	1
	Type6	16	1	333.3	9	1
	Type6	17	1	333.3	9	1
	Type6	18	1	333.3	9	1
	Type6	19	1	333.3	9	1
	Type6	20	1	333.3	9	1
	Type6	21	1	333.3	9	1
	Type6	22	1	333.3	9	1
	Type6	23	1	333.3	9	0
	Type6	24	1	333.3	9	1
	Type6	25	1	333.3	9	1
	Type6	26	1	333.3	9	1
	Type6	27	1	333.3	9	1
	Type6	28	1	333.3	9	1
	Type6	29	1	333.3	9	1

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, and each segment at least contains 1 frequency within the U-NII Detection Bandwidth of the UUT:

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.