

Test Report No:
24A0832R-RFUSV18S-A

TEST REPORT (Dynamic Frequency Selection) FCC Rules&Regulations

Product Name	Wi-Fi 7 BE6500 USB 3.0 Dongle
Brand Name	D-Link
Model No.	AE65U
FCC ID	KA2AE65UA1
Applicant's Name / Address	D-Link Corporation 14420 Myford Road Suite 100 Irvine California United States 92606
Manufacturer's Name / Address	D-Link Corporation 14420 Myford Road Suite 100 Irvine California United States 92606
Test Method Requested, Standard	FCC CFR Title 47 Part 15 Subpart E Section 15.407 ANSI C63.10-2013
Verdict Summary	IN COMPLIANCE
Documented By	 Jennie She
Approved By	 Allen Lin
Date of Receipt	Oct. 29, 2024
Date of Issue	Sep. 10, 2025
Report Version	V1.0

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Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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General Conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Sep. 10, 2025

Summary of Test Result

Report Clause	Test Items	Result (PASS/FAIL)	Remark
5	In-Service Monitoring for Channel Move Time (CMT)	PASS	-
5	In-Service Monitoring for Channel Closing Transmission Time (CCTT)	PASS	-
5	In-Service Monitoring for Non-Occupancy Period (NOP)	PASS	-
6	Statistical Performance Check	PASS	-

Note: Since the product is client without radar detection function, only Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period are required to perform.

Comments and Explanations

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1. General Information

1.1. EUT Description

DFS Frequency Range	5250 ~ 5350 MHz 5470 ~ 5725 MHz	
DFS Operating Frequency / Number of DFS Channels	IEEE 802.11a	5260~5320MHz / 4 Channels
	IEEE 802.11n/ac/ax/be (20 MHz)	5500~5720MHz / 12 Channels
	IEEE 802.11n/ac/ax/be (40 MHz)	5270~5310MHz / 2 Channels 5510~5710MHz / 6 Channels
	IEEE 802.11ac/ax/be (80 MHz)	5290MHz / 1 Channel 5530~5690MHz / 3 Channel
	IEEE 802.11ac/ax/be (160 MHz)	5250 MHz / 1 Channel 5570 MHz / 1 Channel
Type of Modulation	IEEE 802.11a/n	OFDM-BPSK, QPSK, 16QAM, 64QAM
	IEEE 802.11ac	OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
	IEEE 802.11ax	OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
	IEEE 802.11be	OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM
Channel Control	Auto	
Channel Bandwidth	20/40/80/160 MHz	

Accessories Information				
No.	Equipment Name	Brand Name	Model No.	Remark
1	USB Cradle	Alaways Tai Lai CO. , LTD	Y001-1498	With power cable: Shielded, 1m

Antenna Information			
Ant.	Brand Name	Model No.	Type
1	LYNwave	ALX24P-121AA5-00	Dipole
2	LYNwave	ALX24P-121AA6-00	Dipole

For IEEE 802.11a/n/ac/ax/be Mode: (2TX, 2RX)

All of the antenna No. can be used as transmitting/receiving antennas, and they can transmit/receive signal simultaneously.

Band	Antenna Gain (dBi)	
	Ant.1	Ant.2
U-NII 1	1.8	1.8
U-NII 2A	1.8	1.8
U-NII 2C	1.8	1.8
U-NII 3	1.7	1.7

1.2. EUT Information

EUT Power Type	From Host system			
Firmware Version	5002.24.117.3			
Operating Mode	☐	Master		
	☐	Bridge		
	☐	Mesh		
	☐	Client with radar detection		
	☒	Client without radar detection		
Communication Mode	☒	IP Based (Load Based)	☐	Frame Based
TPC Function	☒	With TPC Function	☐	Without TPC Function
Weather Band (5600 ~ 5650 MHz)	☒	With 5600 ~ 5650 MHz	☐	Without 5600 ~ 5650 MHz
Beamforming Function	☐	With beamforming	☒	Without beamforming

1.3. Applicable Standards

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

- ♦ FCC KDB 905462 D02v02

1.4. Testing Location Information

Testing Location Information		
Test Laboratory : DEKRA Testing and Certification Co., Ltd.		
1 (TAF: 3024)	ADD: No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.	
2 (TAF: 3024)	ADD: No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.	
Test site number for address 1 includes HC-SR02 and HC-CB10. Test site number for address 2 includes HC-CB02, HC-CB03, HC-CB04, HC-SR10 and HC-SR12.		

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
DFS	HC-SR10	Neil Yeh	22.8 / 42	2025/01/21

1.5. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Test item	Uncertainty
DFS	± 0.74 dB

1.6. List of Test Equipment

HC-SR10

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
MXG Vector Signal Generator	Keysight	N5182B	MY53052548	9 kHz-6 GHz	2025/1/6	2026/1/5
Spectrum Analyzer	Keysight	N9010B	MY57110159	10 Hz-7 GHz	2024/03/01	2025/02/28

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2. Test Configuration of EUT

2.1. Test Condition

EUT Operational Condition	
Testing Voltage	AC 120V

2.2. Test Channel Frequencies Configuration

IEEE Std.	Test Channel Frequency
802.11be (20 MHz)	5500 MHz
802.11be (40 MHz)	5510 MHz
802.11be (80 MHz)	5530 MHz
802.11be (160 MHz)	5250 MHz
	5570 MHz

2.3. The Worst Case Measurement Configuration

Tests Item	Dynamic Frequency Selection (DFS)
Test Condition	The EUT shall be configured to operate at the highest transmitter output power setting. If more than one antenna assembly is intended for this power setting, the gain of the antenna assembly with the lowest gain shall be used.

Note:

1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The device operating in channel 50 bandwidth 160 MHz monitoring on channel 58 since the control single is on channel 58.

2.4. Tested System Details

No.	Equipment	Brand Name	Model No.	Serial No.	FCC ID
1	PC	ASUS	ASUS K31AD	G2PDAG0004JP	-
2	PC	DELL	Inspiron 3250	G6Q10J2	-
3	DFS Kit Box	Dekra	4PS6A-1	TW5451093	-
4	Master	ASUS	RT-BE96U	R9IG6G201216VYW	MSQ-RTBE6G00

2.5. Standard Requirement

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

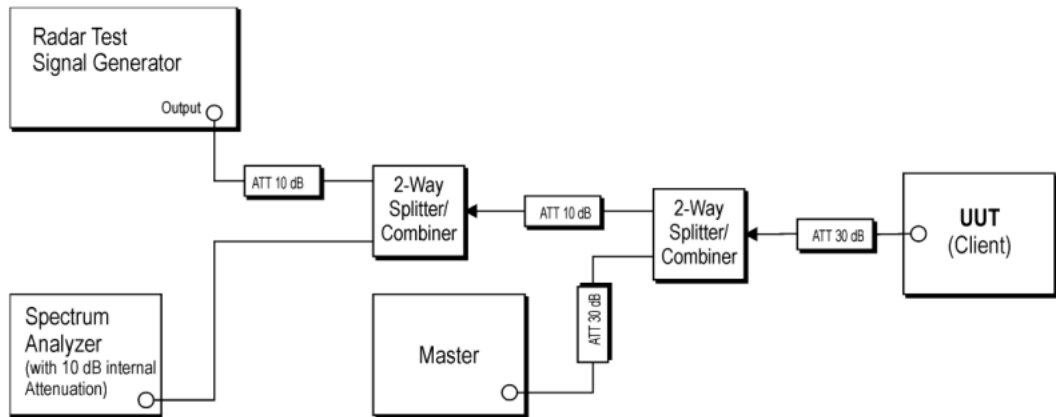
U-NII devices operating in the 5.25 ~ 5.35 GHz and 5.47 ~ 5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems.

2.6. UNII Device Description

1. The EUT operates in the following DFS band:
5250 ~ 5350 MHz
5470 ~ 5725 MHz
2. Below are the available 50 ohm antenna assemblies and their corresponding gains. 0 dBi gain was used to set the -64 dBm threshold level during calibration of the test setup.
3. WLAN traffic is generated by the test software "LanTest20" from the Master device to the Slave device in the transfer data rate >17%.
4. For the 5250 ~ 5350 MHz and 5470 ~ 5725 MHz bands, the Master device provides, on aggregate, uniform loading of the spectrum across all devices by selecting an operating channel among the available channels using a random algorithm.

3. General DFS Information

3.1. Test Setup



3.2. DFS Detection Thresholds

(1) Interference Threshold value, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (see note)
≥ 200 milliwatt	-64dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64dBm
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.	

(2) 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 + approx. 60 milliseconds over remaining 10 seconds period (See Note 1 and Note 2)
U-NII Detection Bandwidth	Minimum 100% of the 99% 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.	

4. Radar Test Waveforms

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

(1) 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 Test B: 15 unique PRI values randomly selected within the range of 518-3066μsec, with a minimum increment of 1μsec, excluding PRI values selected in Test A	$Roundup = \left\lceil \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{PRI_{\mu sec}} \right) \right\rceil$	60%	30
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.

(2) Long Pulse Radar Test Signal

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

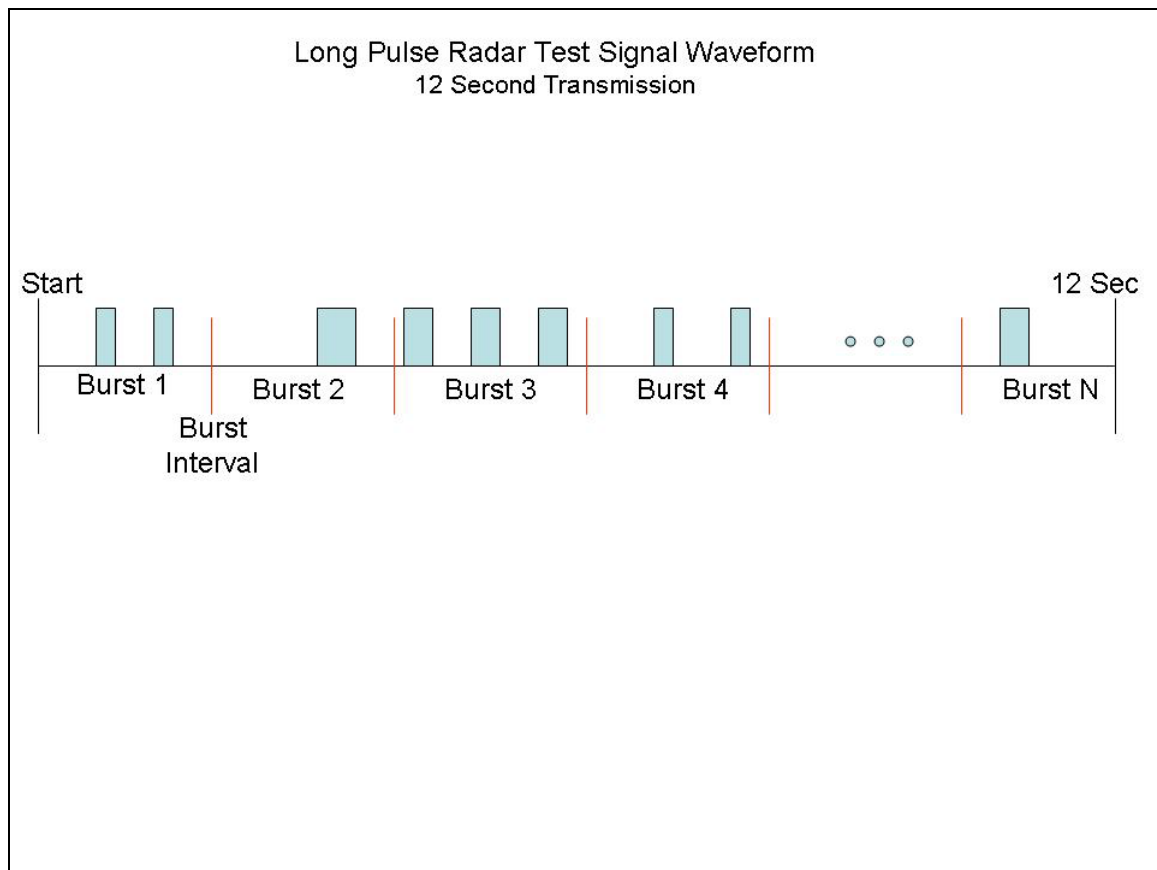
The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the long pulse radar test signal. If more than 30 waveforms are used for the long pulse radar test signal, then each additional waveform must also be unique and not repeated from the previous waveforms.

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.
- (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 time between the first and second pulses is chosen independently of the time 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 independently.

A representative example of a Long Pulse radar test waveform:

- (1) The total test signal length is 12 seconds.
- (2) 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).

Graphical Representation of a Long Pulse radar Test Waveform

(3) Frequency Hopping Radar Test Signal

Radar Waveform	Pulse Width (μsec)	PRI (μsec)	Hopping Sequence Length (msec)	Pulses Per Hop	Hopping Rate (kHz)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	300	9	0.333	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 selected¹ from the hopping sequence defined by the following algorithm:

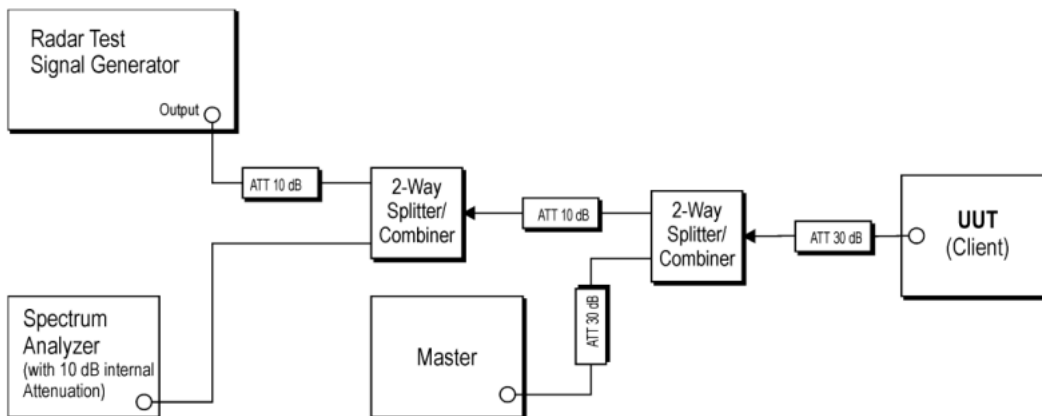
The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues 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.

4.1. Radar Waveform Calibration

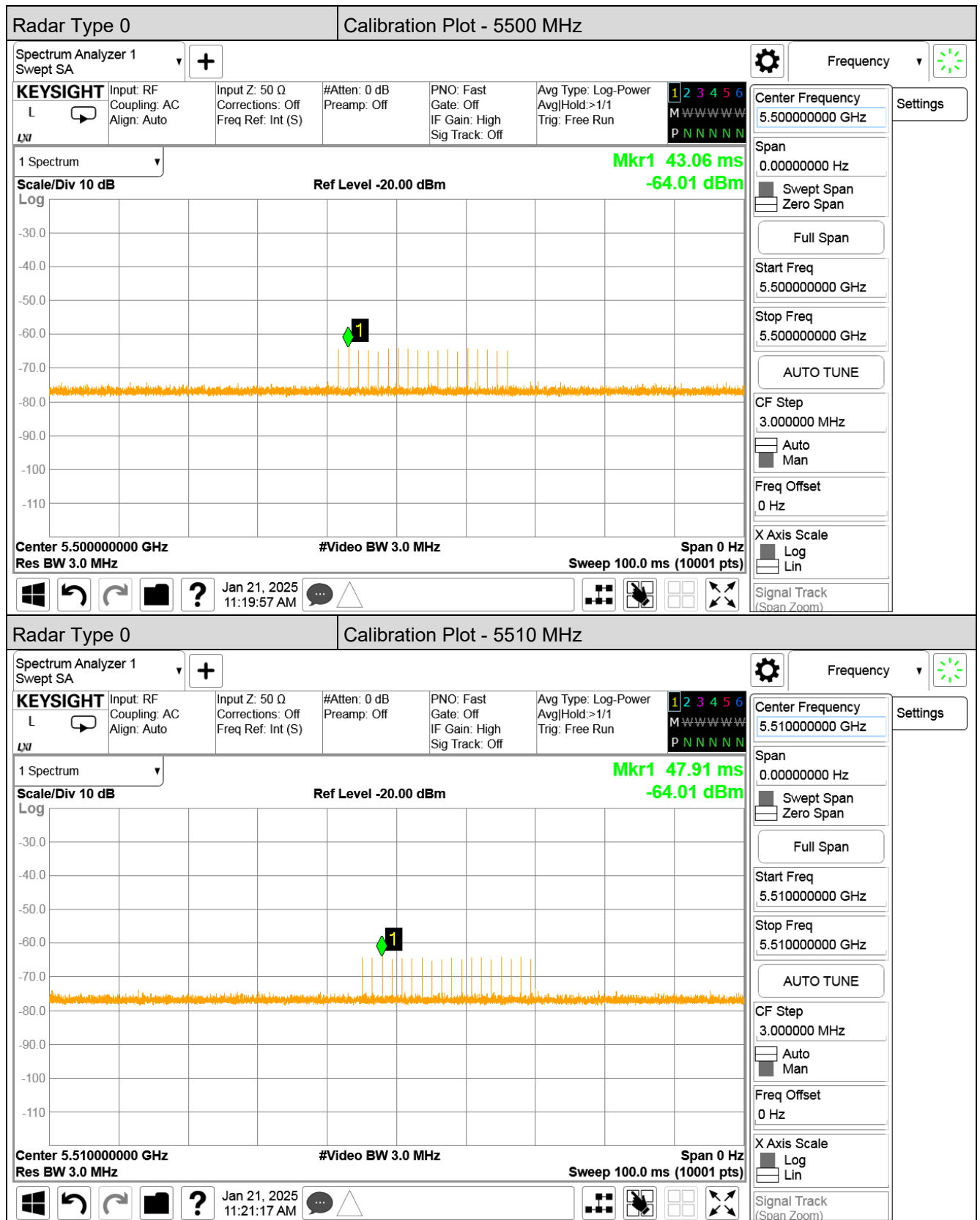
The following equipment setup was used to calibrate the conducted radar waveform. A spectrum analyzer was used to establish the test signal level for each radar type. During this process there were replace 50ohm terminal from master and client device and no transmissions by either the master or client device. The spectrum analyzer was switched to the zero span (time domain) at the frequency of the radar waveform generator. Peak detection was utilized. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3MHz and 50MHz.

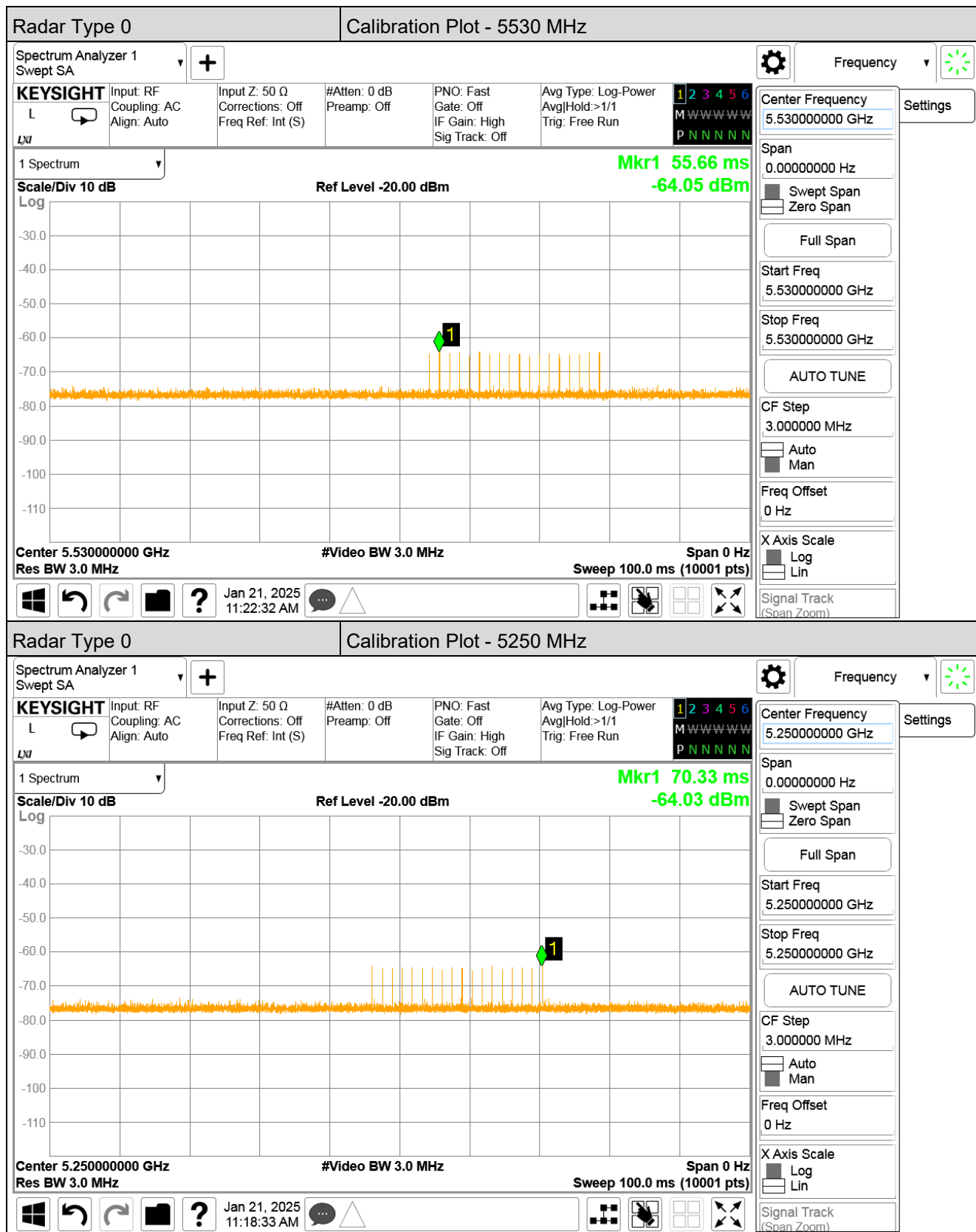
The signal generator amplitude was set so that the power level measured at the spectrum analyzer was -64dBm due to the interference threshold level is not required.

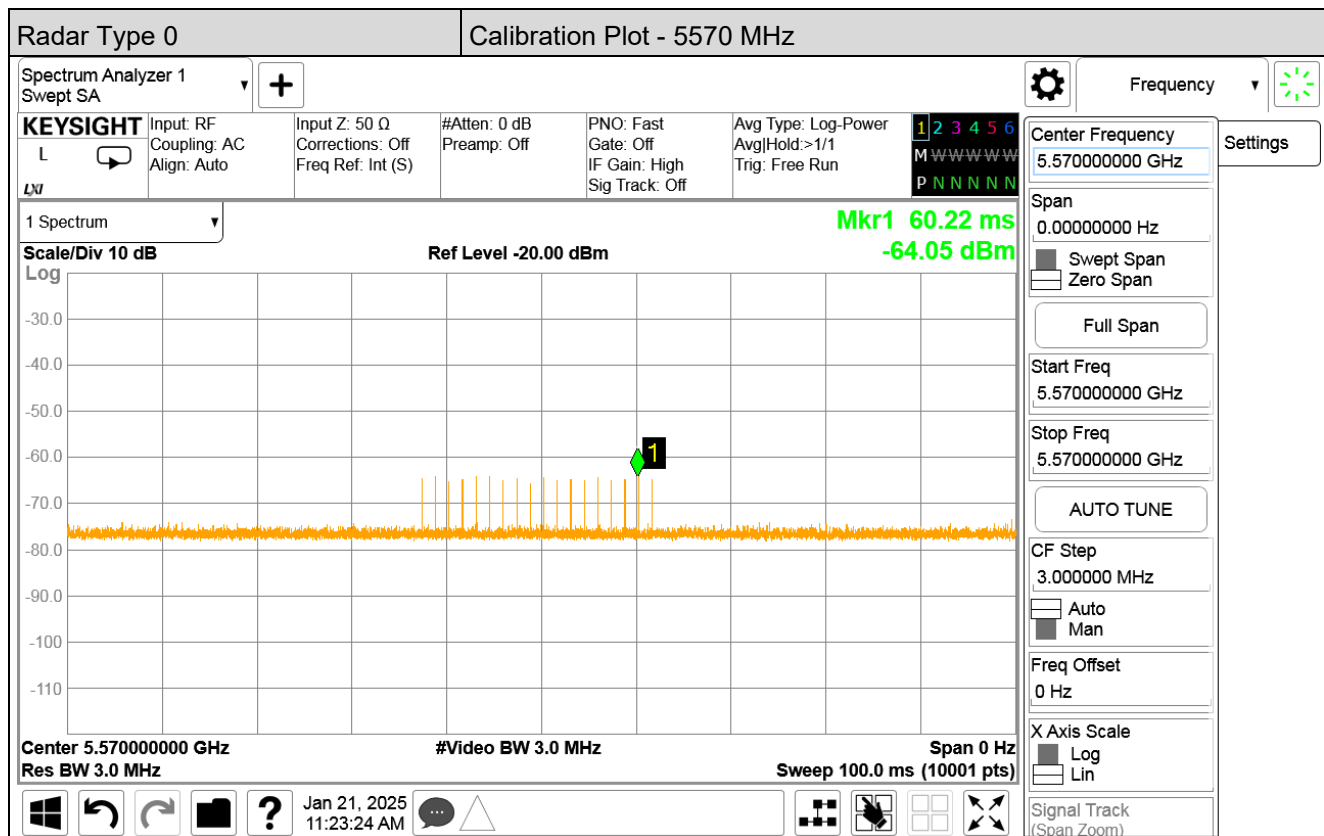
Conducted Calibration Setup



4.2. Radar Waveform Calibration Result

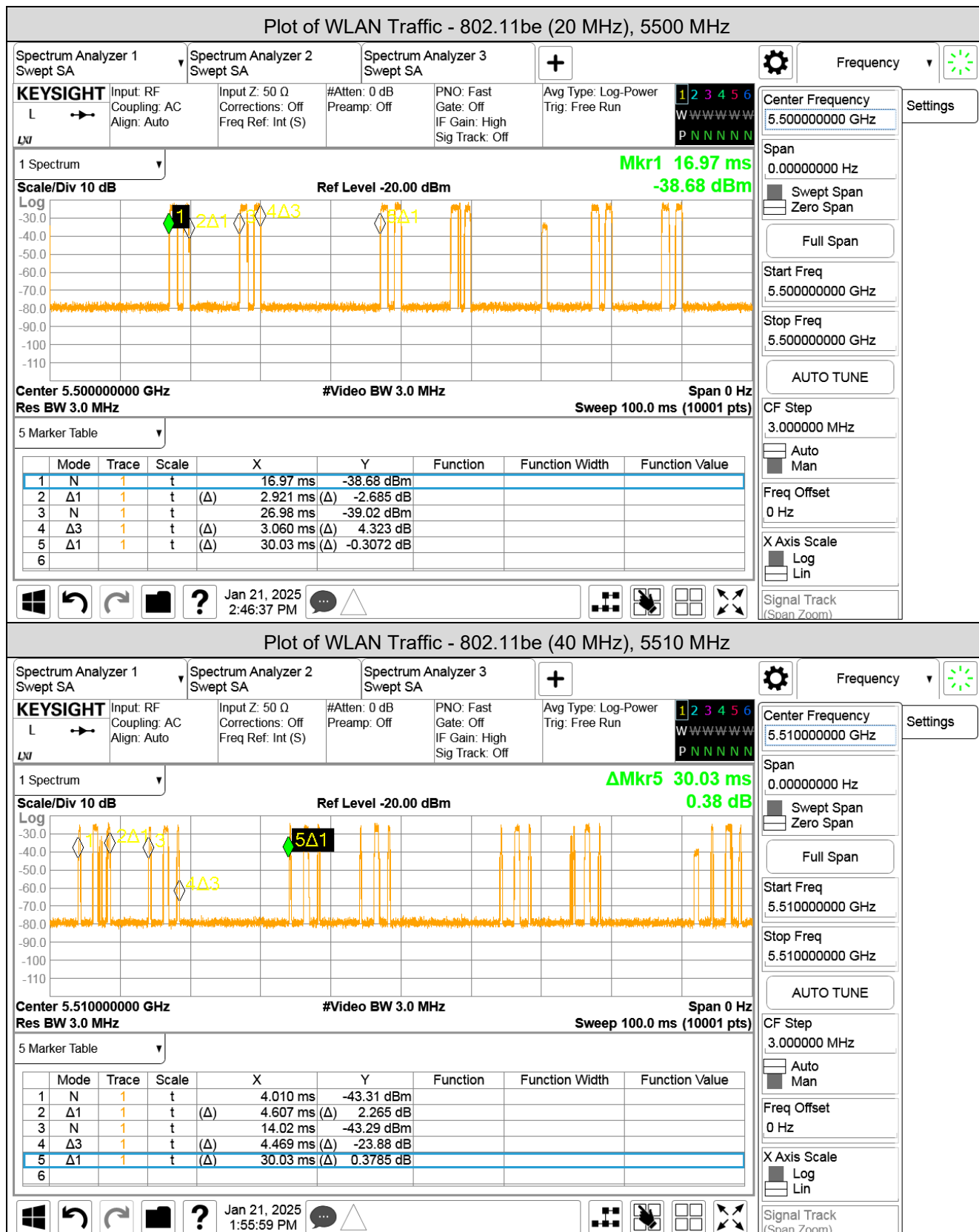




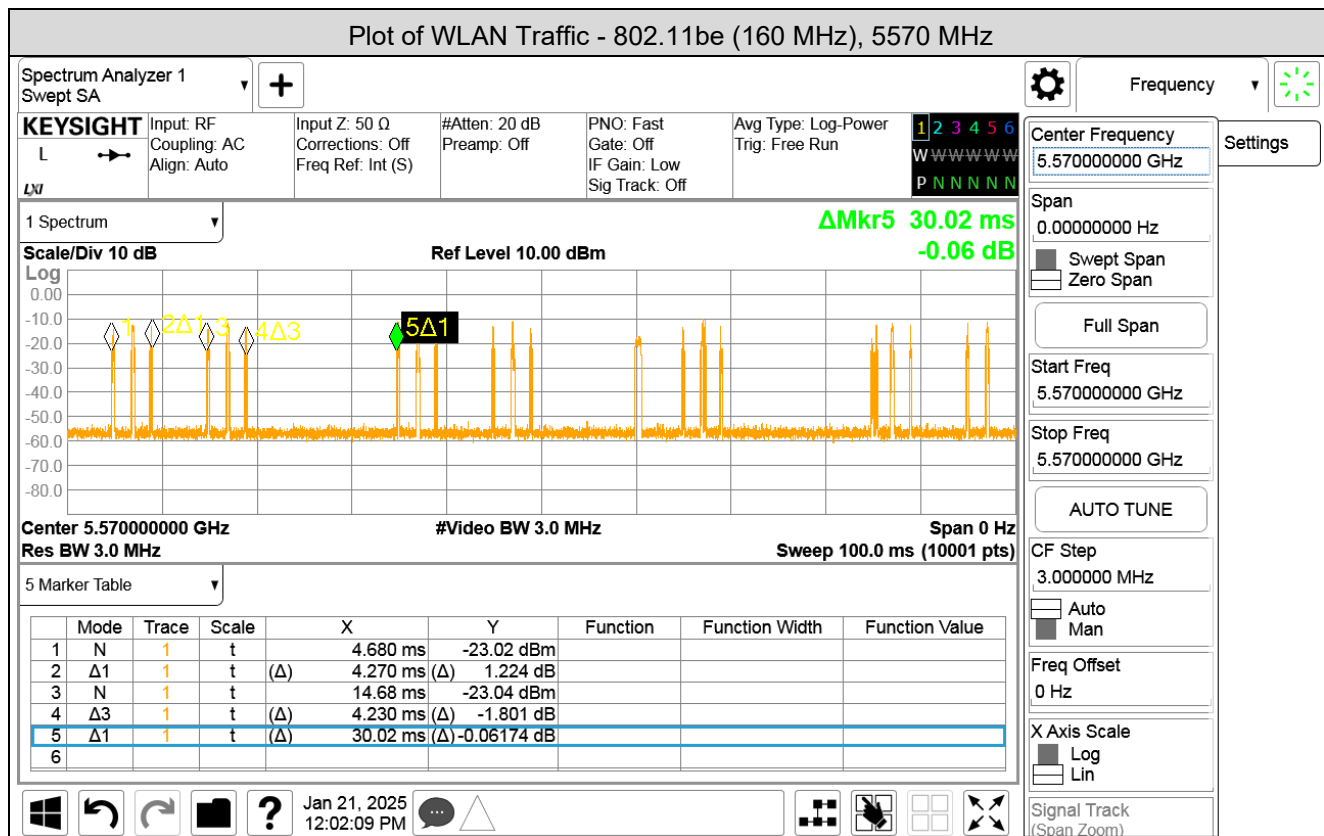


4.3. Master Data Traffic Plot Result

Modulation	Frequency (MHz)	Channel Loading (%)	Requirement loading (%)	Result
802.11be (20 MHz)	5500	19.917	> 17	Pass
802.11be (40 MHz)	5510	30.223	> 17	Pass
802.11be (80 MHz)	5530	28.771	> 17	Pass
802.11be (160 MHz)	5250	28.662	> 17	Pass
	5570	28.314	> 17	Pass







5. In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

5.1. Test Procedure

The EUT was tested according to U-NII test procedure of KDB 905462 D02v02.

These tests define how the following DFS parameters are verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time, and 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 is generated on the Operating Channel of the U-NII device.

A U-NII device operating as a Client Device will associate with the UUT (Master) at test channel frequency. 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 T0 the Radar Waveform generator sends a Burst of pulses for each of the radar types.

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). Compare the Channel Move Time and Channel Closing Transmission Time results to the limit defined in the DFS Response requirement values table.

Measure the UUT for more than 30 minutes following the channel close/move time to verify that the UUT does not resume any transmissions on this Channel.

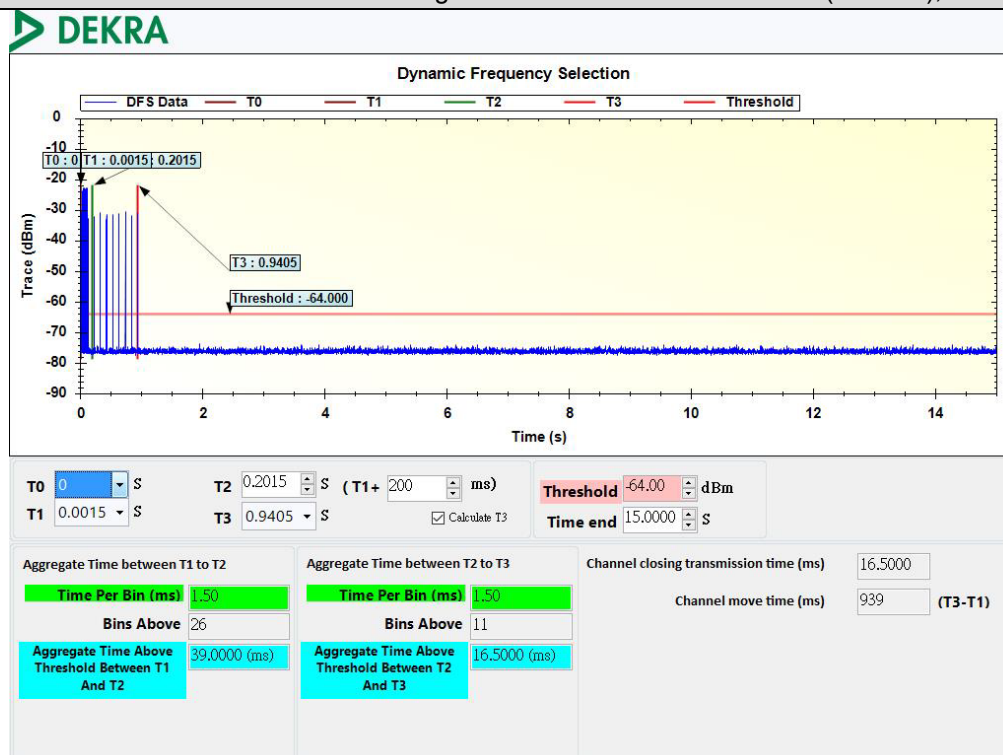
5.2. Test Requirement

Parameter	Value
Channel Move Time	10 Seconds
Channel Closing Transmission Time	200 milliseconds + approx. 60 milliseconds over remaining 10 seconds period
Non-Occupancy Period	Minimum 30 minutes

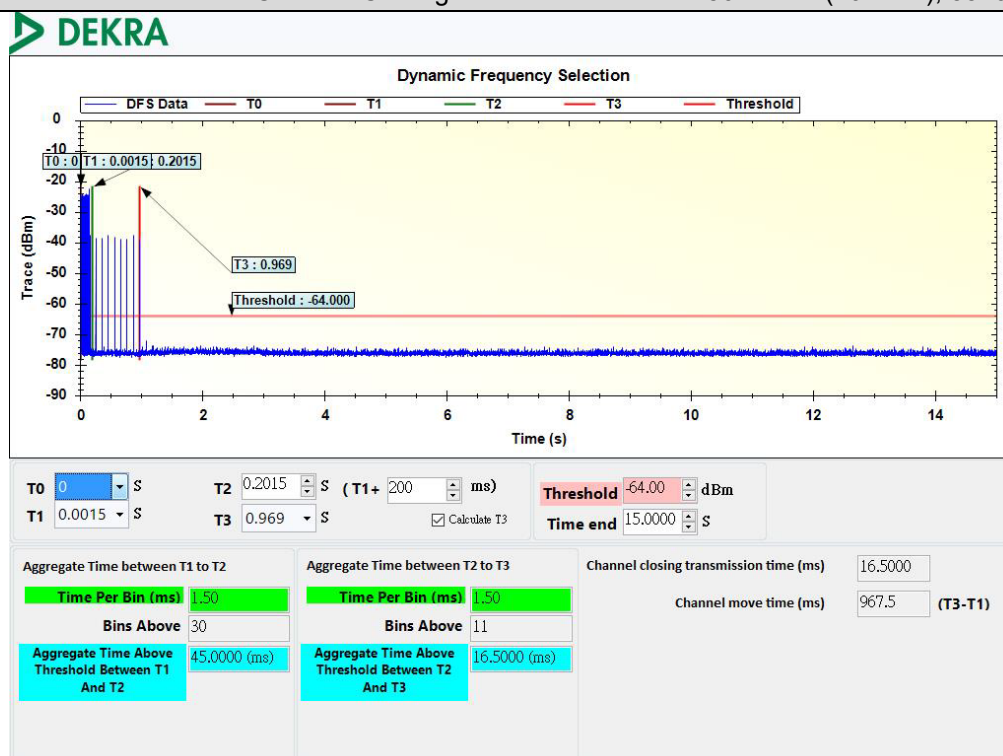
5.3. Test Result of Channel Move Time and Channel Closing Transmission Time

Modulation	Frequency (MHz)	Channel Closing Transmission		Channel Move Time	
		Result (ms)	Limit (s)	Result (ms)	Limit (s)
802.11be (20 MHz)	5500	16.5	200 milliseconds + approx. 60 milliseconds over remaining 10 seconds period	939	10
802.11be (40 MHz)	5510	16.5		967.5	
802.11be (80 MHz)	5530	15.0		889.5	
802.11be (160 MHz)	5250	18.0		861	
	5570	15.0		843	
The results showed that after radar signal injected the channel move time was less than 10 seconds and channel transmission closing time less than 200 milliseconds and an aggregate of no more than 60 milliseconds.					

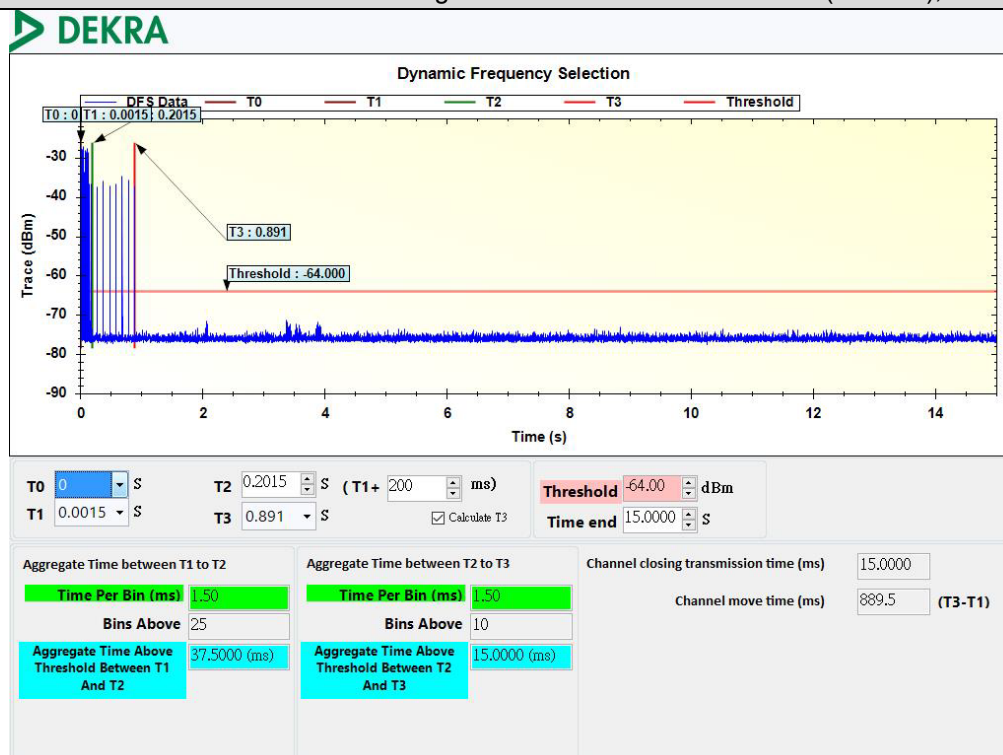
Channel Move Time and Channel Closing Transmission Time - 802.11be (20 MHz), 5500 MHz



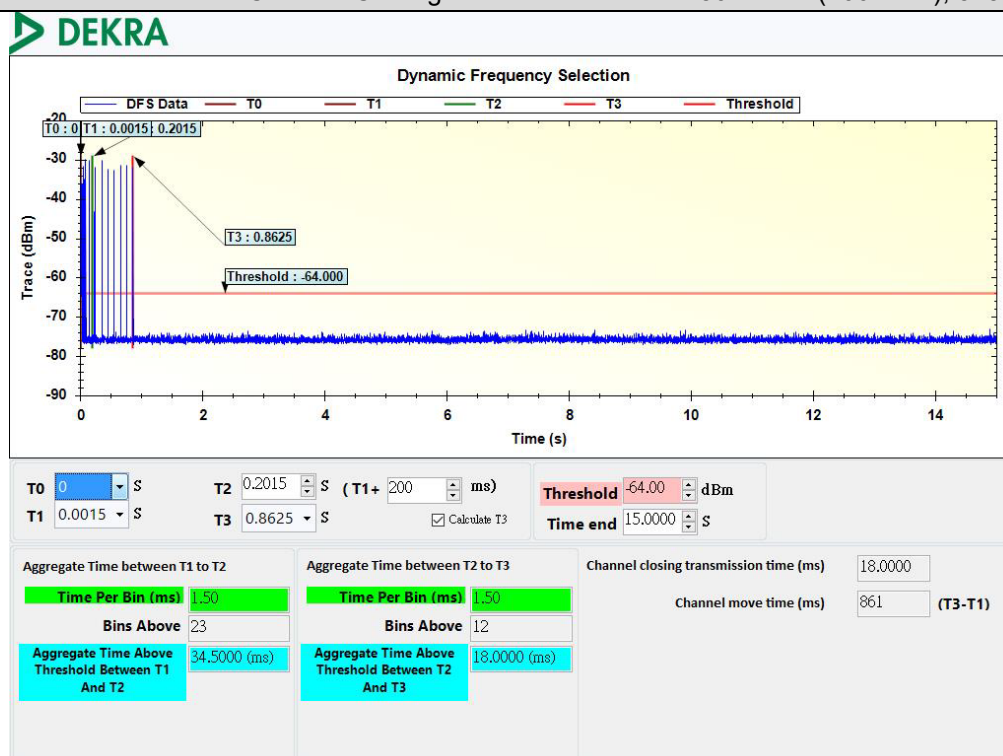
Channel Move Time and Channel Closing Transmission Time - 802.11be (40 MHz), 5510 MHz



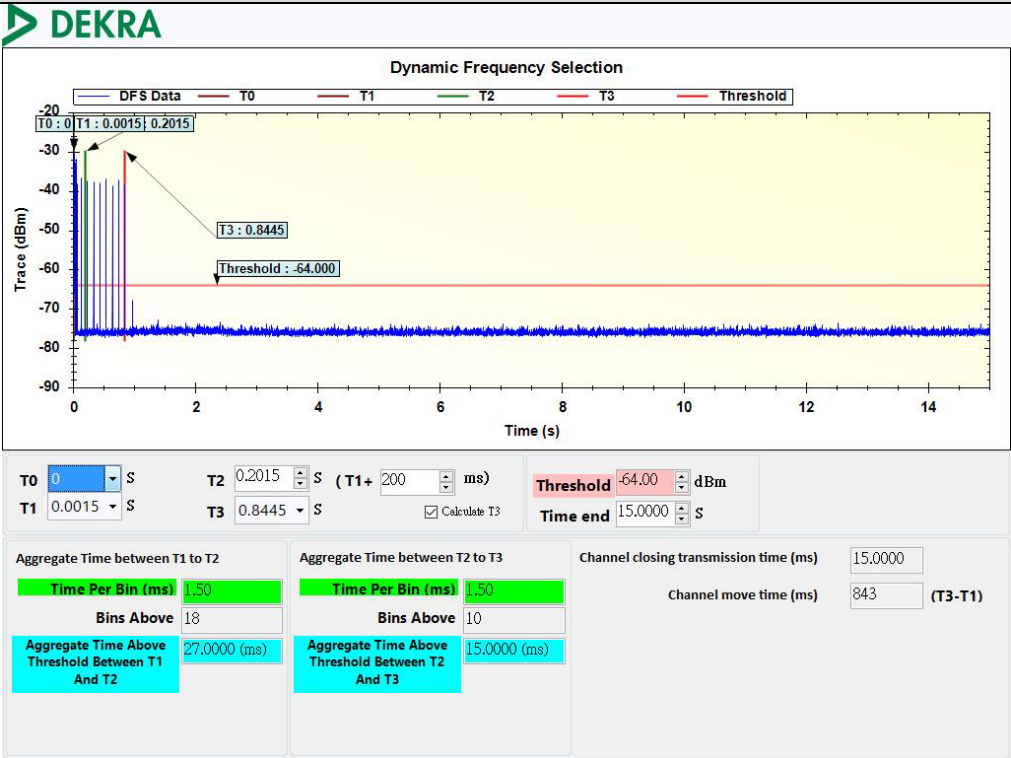
Channel Move Time and Channel Closing Transmission Time - 802.11be (80 MHz), 5530 MHz



Channel Move Time and Channel Closing Transmission Time - 802.11be (160 MHz), 5250 MHz

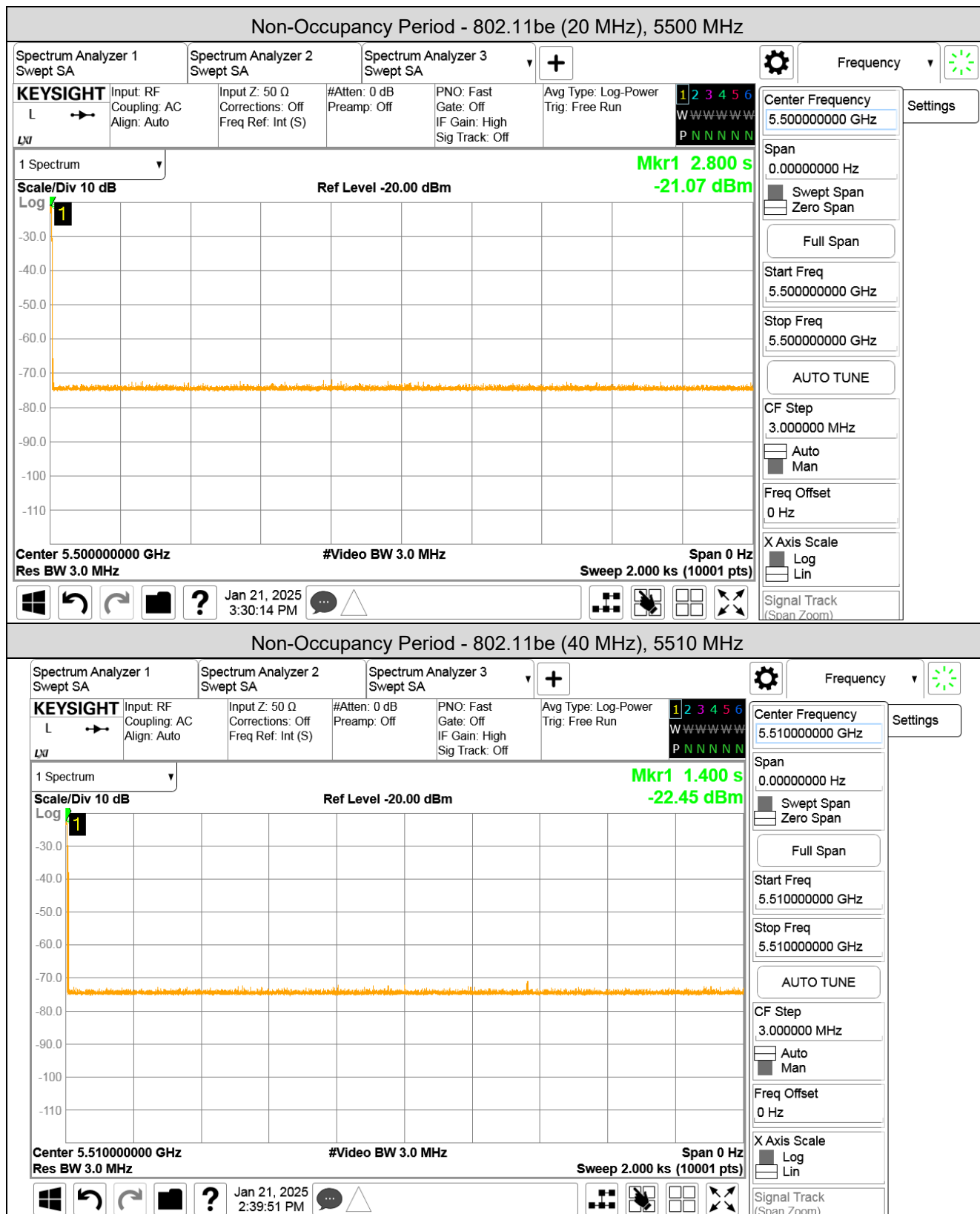


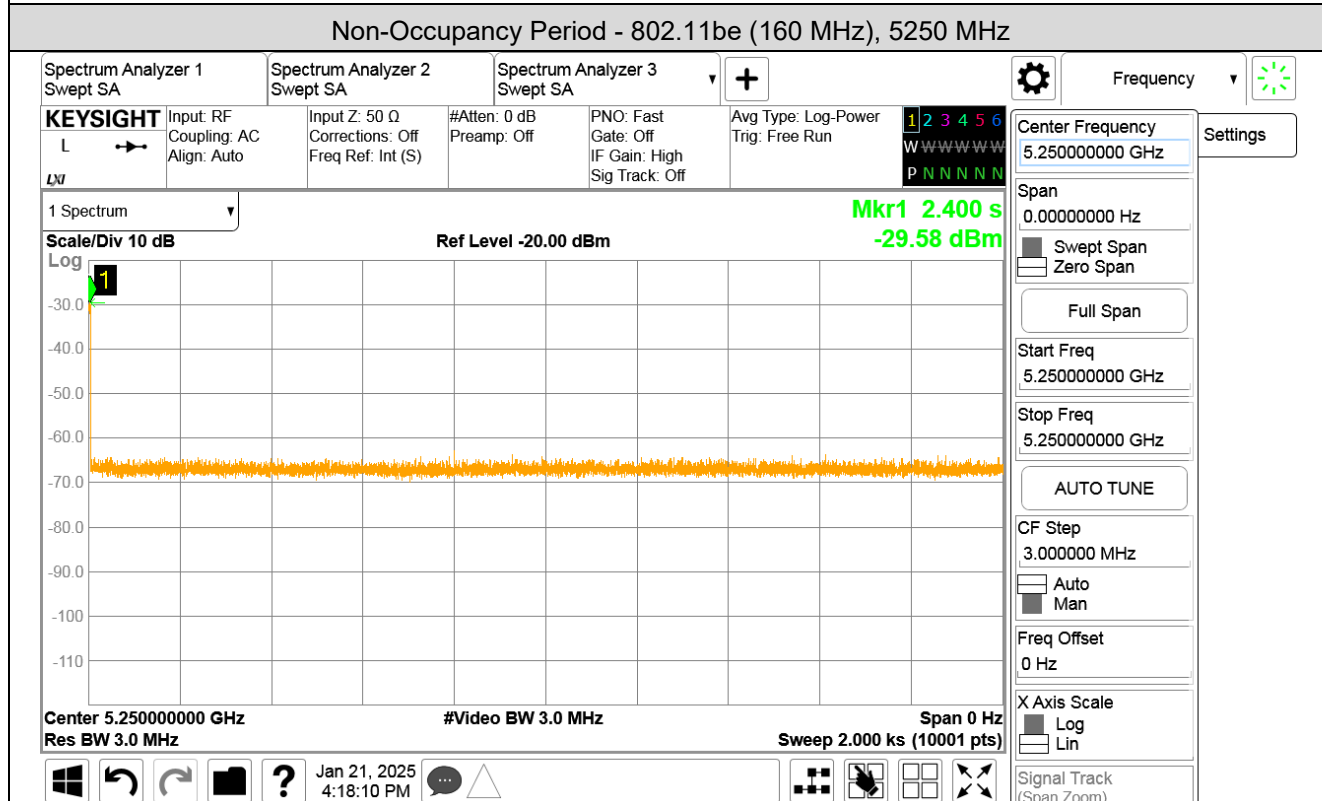
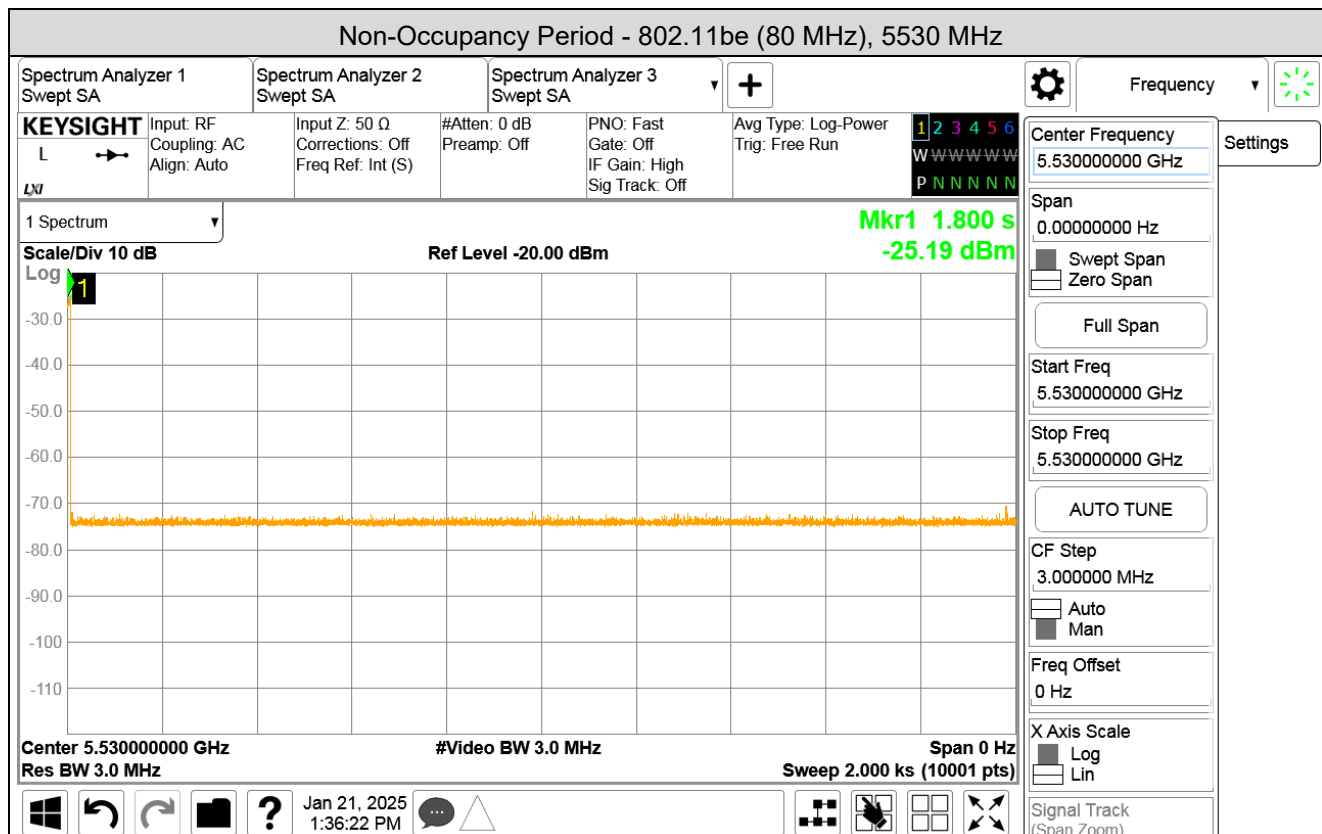
Channel Move Time and Channel Closing Transmission Time - 802.11be (160 MHz), 5570 MHz

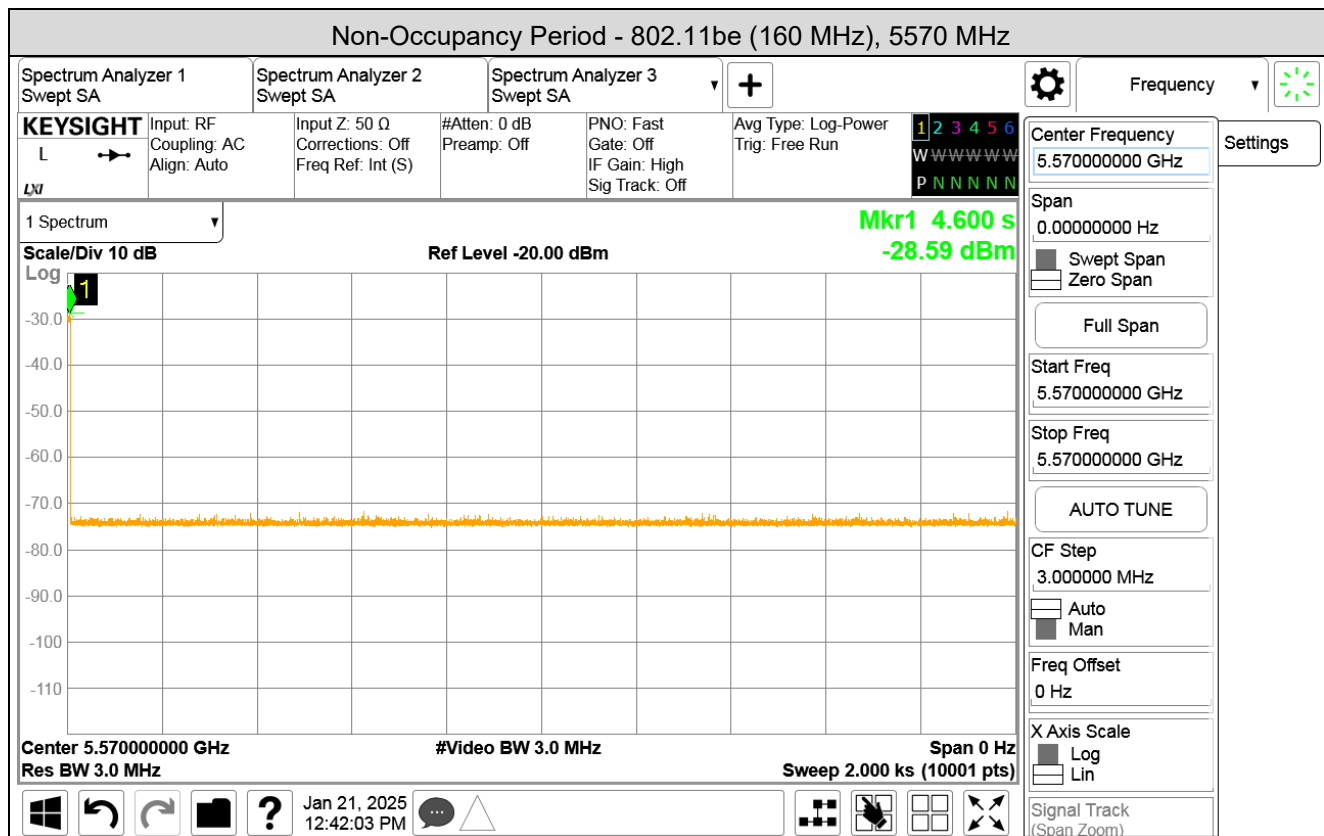


5.4. Test Result of Non-Occupancy Period

Non-Occupancy Period				
Modulation	Frequency (MHz)	Test Result (Minutes)	Limit (Minutes)	Result
802.11be (20 MHz)	5500	> 30	> 30	Pass
802.11be (40 MHz)	5510	> 30	> 30	Pass
802.11be (80 MHz)	5530	> 30	> 30	Pass
802.11be (160 MHz)	5250	> 30	> 30	Pass
	5570	> 30	> 30	Pass
No EUT transmissions were observed on the test channel during 30 minutes observation time.				







6. Statistical Performance Check

6.1. Test Procedure

The EUT was tested according to U-NII test procedure of KDB 905462 D02v02.

The steps below define the procedure to determine the minimum percentage of detection when a radar burst with a level equal to the DFS Detection Threshold is generated on the Operating Channel of the U-NII device.

A U-NII device operating as a Client Device will associate with the UUT (Master) at test channel frequency.

Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test.

The Radar Waveform generator sends the individual waveform for each of the radar types 1-6. Statistical data will be gathered to determine the ability of the device to detect the radar test waveforms. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.

6.2. Test Requirement

The 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.

Minimum percentage of successful detections

Radar Type	Minimum Percentage of Successful Detection	Minimum Number of Trials
1	60%	30
2	60%	30
3	60%	30
4	60%	30
Aggregate (Radar Types 1-4)	80%	120
5	80%	30
6	70%	30

The percentage of successful detection is calculated by:

$$\frac{\text{TotalWaveformDetections}}{\text{TotalWaveformTrials}} \times 100 = \text{Probability of Detection Radar Waveform}$$

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

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

6.3. Test Result of Statistical Performance Check

802.11be (20 MHz), 5500 MHz					
Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 1	1	658	81	53298
1	Type 1	1	798	67	53466
2	Type 1	1	738	72	53136
3	Type 1	1	938	57	53466
4	Type 1	1	558	95	53010
5	Type 1	1	518	102	52836
6	Type 1	1	3066	18	55188
7	Type 1	1	878	61	53558
8	Type 1	1	718	74	53132
9	Type 1	1	678	78	52884
10	Type 1	1	918	58	53244
11	Type 1	1	898	59	52982
12	Type 1	1	638	83	52954
13	Type 1	1	618	86	53148
14	Type 1	1	598	89	53222
15	Type 1	1	1182	45	53190
16	Type 1	1	909	59	53631
17	Type 1	1	530	100	53000
18	Type 1	1	1946	28	54488
19	Type 1	1	2259	24	54216
20	Type 1	1	2009	27	54243
21	Type 1	1	865	62	53630
22	Type 1	1	2218	24	53232
23	Type 1	1	1480	36	53280
24	Type 1	1	2523	21	52983
25	Type 1	1	2876	19	54644
26	Type 1	1	2496	22	54912
27	Type 1	1	3046	18	54828
28	Type 1	1	2057	26	53482
29	Type 1	1	2719	20	54380

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 2	4.8	218	29	6322
1	Type 2	2.1	206	24	4944
2	Type 2	1.9	201	24	4824
3	Type 2	3.4	226	27	6102
4	Type 2	4.1	192	28	5376
5	Type 2	4.4	221	28	6188
6	Type 2	4.1	172	28	4816
7	Type 2	3.5	150	27	4050
8	Type 2	3.6	186	27	5022
9	Type 2	4.7	154	29	4466
10	Type 2	1.3	194	23	4462
11	Type 2	1	166	23	3818
12	Type 2	3.6	212	27	5724
13	Type 2	3	228	26	5928
14	Type 2	4	211	28	5908
15	Type 2	4.7	151	29	4379
16	Type 2	1.1	179	23	4117
17	Type 2	2.7	175	25	4375
18	Type 2	1.5	165	24	3960
19	Type 2	1.6	167	24	4008
20	Type 2	4.8	173	29	5017
21	Type 2	3.7	189	27	5103
22	Type 2	5	185	29	5365
23	Type 2	4.7	215	29	6235
24	Type 2	3.8	159	27	4293
25	Type 2	2.3	170	25	4250
26	Type 2	4.8	168	29	4872
27	Type 2	1.9	213	24	5112
28	Type 2	1.3	190	23	4370
29	Type 2	1.5	205	23	4715

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 3	9.8	265	18	4770
1	Type 3	7.1	240	16	3840
2	Type 3	6.9	299	16	4784
3	Type 3	8.4	262	17	4454
4	Type 3	9.1	446	18	8028
5	Type 3	9.4	223	18	4014
6	Type 3	9.1	224	18	4032
7	Type 3	8.5	493	17	8381
8	Type 3	8.6	443	17	7531
9	Type 3	9.7	403	18	7254
10	Type 3	6.3	471	16	7536
11	Type 3	6	248	16	3968
12	Type 3	8.6	454	17	7718
13	Type 3	8	227	17	3859
14	Type 3	9	448	18	8064
15	Type 3	9.7	300	18	5400
16	Type 3	6.1	400	16	6400
17	Type 3	7.7	467	17	7939
18	Type 3	6.5	222	16	3552
19	Type 3	6.6	252	16	4032
20	Type 3	9.8	412	18	7416
21	Type 3	8.7	294	18	5292
22	Type 3	10	413	18	7434
23	Type 3	9.7	386	18	6948
24	Type 3	8.8	317	18	5706
25	Type 3	7.3	472	17	8024
26	Type 3	9.8	258	18	4644
27	Type 3	6.9	250	16	4000
28	Type 3	6.3	447	16	7152
29	Type 3	6.5	314	16	5024

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 4	19.4	265	16	4240
1	Type 4	13.4	240	13	3120
2	Type 4	13.1	299	13	3887
3	Type 4	16.4	262	15	3930
4	Type 4	18	446	15	6690
5	Type 4	18.5	223	16	3568
6	Type 4	17.9	224	15	3360
7	Type 4	16.5	493	15	7395
8	Type 4	16.8	443	15	6645
9	Type 4	19.2	403	16	6448
10	Type 4	11.7	471	12	5652
11	Type 4	11.1	248	12	2976
12	Type 4	16.9	454	15	6810
13	Type 4	15.4	227	14	3178
14	Type 4	17.7	448	15	6720
15	Type 4	19.3	300	16	4800
16	Type 4	11.3	400	12	4800
17	Type 4	14.8	467	14	6538
18	Type 4	12.3	222	12	2664
19	Type 4	12.3	252	12	3024
20	Type 4	19.4	412	16	6592
21	Type 4	17	294	15	4410
22	Type 4	19.9	413	16	6608
23	Type 4	19.2	386	16	6176
24	Type 4	17.4	317	15	4755
25	Type 4	14	472	13	6136
26	Type 4	19.4	258	16	4128
27	Type 4	13.2	250	13	3250
28	Type 4	11.7	447	12	5364
29	Type 4	12.2	314	12	3768

Trial Id	Radar Type	Number of Bursts	Burst Period(s)	Waveform Length(s)	Center Frequency (GHz)
0	Type 5	20	0.6	12	5.5
1	Type 5	11	1.090909	12	5.5
2	Type 5	11	1.090909	12	5.5
3	Type 5	15	0.8	12	5.5
4	Type 5	18	0.666667	12	5.5
5	Type 5	18	0.666667	12	5.5
6	Type 5	17	0.705882	12	5.5
7	Type 5	15	0.8	12	5.5
8	Type 5	16	0.75	12	5.5
9	Type 5	19	0.631579	12	5.5
10	Type 5	9	1.333333	12	5.492
11	Type 5	8	1.5	12	5.492
12	Type 5	16	0.75	12	5.496
13	Type 5	14	0.857143	12	5.495
14	Type 5	17	0.705882	12	5.496
15	Type 5	19	0.631579	12	5.498
16	Type 5	8	1.5	12	5.492
17	Type 5	13	0.923077	12	5.494
18	Type 5	9	1.333333	12	5.493
19	Type 5	9	1.333333	12	5.493
20	Type 5	20	0.6	12	5.502
21	Type 5	16	0.75	12	5.504
22	Type 5	20	0.6	12	5.502
23	Type 5	19	0.631579	12	5.502
24	Type 5	17	0.705882	12	5.504
25	Type 5	12	1	12	5.506
26	Type 5	20	0.6	12	5.502
27	Type 5	11	1.090909	12	5.507
28	Type 5	9	1.333333	12	5.508
29	Type 5	9	1.333333	12	5.507

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Pulses per Hop	Hopping Rate (KHz)	Hopping Sequence Length (ms)	Visible Frequency Number
0	Type 6	1	333.3	9	0.3333	300	3
1	Type 6	1	333.3	9	0.3333	300	5
2	Type 6	1	333.3	9	0.3333	300	1
3	Type 6	1	333.3	9	0.3333	300	5
4	Type 6	1	333.3	9	0.3333	300	1
5	Type 6	1	333.3	9	0.3333	300	6
6	Type 6	1	333.3	9	0.3333	300	3
7	Type 6	1	333.3	9	0.3333	300	2
8	Type 6	1	333.3	9	0.3333	300	3
9	Type 6	1	333.3	9	0.3333	300	6
10	Type 6	1	333.3	9	0.3333	300	2
11	Type 6	1	333.3	9	0.3333	300	7
12	Type 6	1	333.3	9	0.3333	300	7
13	Type 6	1	333.3	9	0.3333	300	8
14	Type 6	1	333.3	9	0.3333	300	7
15	Type 6	1	333.3	9	0.3333	300	4
16	Type 6	1	333.3	9	0.3333	300	5
17	Type 6	1	333.3	9	0.3333	300	7
18	Type 6	1	333.3	9	0.3333	300	5
19	Type 6	1	333.3	9	0.3333	300	7
20	Type 6	1	333.3	9	0.3333	300	4
21	Type 6	1	333.3	9	0.3333	300	3
22	Type 6	1	333.3	9	0.3333	300	7
23	Type 6	1	333.3	9	0.3333	300	2
24	Type 6	1	333.3	9	0.3333	300	3
25	Type 6	1	333.3	9	0.3333	300	3
26	Type 6	1	333.3	9	0.3333	300	5
27	Type 6	1	333.3	9	0.3333	300	3
28	Type 6	1	333.3	9	0.3333	300	3
29	Type 6	1	333.3	9	0.3333	300	2

802.11be (40 MHz), 5510 MHz					
Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 1	1	658	81	53298
1	Type 1	1	798	67	53466
2	Type 1	1	738	72	53136
3	Type 1	1	938	57	53466
4	Type 1	1	558	95	53010
5	Type 1	1	518	102	52836
6	Type 1	1	3066	18	55188
7	Type 1	1	878	61	53558
8	Type 1	1	718	74	53132
9	Type 1	1	678	78	52884
10	Type 1	1	918	58	53244
11	Type 1	1	898	59	52982
12	Type 1	1	638	83	52954
13	Type 1	1	618	86	53148
14	Type 1	1	598	89	53222
15	Type 1	1	1182	45	53190
16	Type 1	1	909	59	53631
17	Type 1	1	530	100	53000
18	Type 1	1	1946	28	54488
19	Type 1	1	2259	24	54216
20	Type 1	1	2009	27	54243
21	Type 1	1	865	62	53630
22	Type 1	1	2218	24	53232
23	Type 1	1	1480	36	53280
24	Type 1	1	2523	21	52983
25	Type 1	1	2876	19	54644
26	Type 1	1	2496	22	54912
27	Type 1	1	3046	18	54828
28	Type 1	1	2057	26	53482
29	Type 1	1	2719	20	54380

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 2	4.8	218	29	6322
1	Type 2	2.1	206	24	4944
2	Type 2	1.9	201	24	4824
3	Type 2	3.4	226	27	6102
4	Type 2	4.1	192	28	5376
5	Type 2	4.4	221	28	6188
6	Type 2	4.1	172	28	4816
7	Type 2	3.5	150	27	4050
8	Type 2	3.6	186	27	5022
9	Type 2	4.7	154	29	4466
10	Type 2	1.3	194	23	4462
11	Type 2	1	166	23	3818
12	Type 2	3.6	212	27	5724
13	Type 2	3	228	26	5928
14	Type 2	4	211	28	5908
15	Type 2	4.7	151	29	4379
16	Type 2	1.1	179	23	4117
17	Type 2	2.7	175	25	4375
18	Type 2	1.5	165	24	3960
19	Type 2	1.6	167	24	4008
20	Type 2	4.8	173	29	5017
21	Type 2	3.7	189	27	5103
22	Type 2	5	185	29	5365
23	Type 2	4.7	215	29	6235
24	Type 2	3.8	159	27	4293
25	Type 2	2.3	170	25	4250
26	Type 2	4.8	168	29	4872
27	Type 2	1.9	213	24	5112
28	Type 2	1.3	190	23	4370
29	Type 2	1.5	205	23	4715

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 3	9.8	265	18	4770
1	Type 3	7.1	240	16	3840
2	Type 3	6.9	299	16	4784
3	Type 3	8.4	262	17	4454
4	Type 3	9.1	446	18	8028
5	Type 3	9.4	223	18	4014
6	Type 3	9.1	224	18	4032
7	Type 3	8.5	493	17	8381
8	Type 3	8.6	443	17	7531
9	Type 3	9.7	403	18	7254
10	Type 3	6.3	471	16	7536
11	Type 3	6	248	16	3968
12	Type 3	8.6	454	17	7718
13	Type 3	8	227	17	3859
14	Type 3	9	448	18	8064
15	Type 3	9.7	300	18	5400
16	Type 3	6.1	400	16	6400
17	Type 3	7.7	467	17	7939
18	Type 3	6.5	222	16	3552
19	Type 3	6.6	252	16	4032
20	Type 3	9.8	412	18	7416
21	Type 3	8.7	294	18	5292
22	Type 3	10	413	18	7434
23	Type 3	9.7	386	18	6948
24	Type 3	8.8	317	18	5706
25	Type 3	7.3	472	17	8024
26	Type 3	9.8	258	18	4644
27	Type 3	6.9	250	16	4000
28	Type 3	6.3	447	16	7152
29	Type 3	6.5	314	16	5024

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 4	19.4	265	16	4240
1	Type 4	13.4	240	13	3120
2	Type 4	13.1	299	13	3887
3	Type 4	16.4	262	15	3930
4	Type 4	18	446	15	6690
5	Type 4	18.5	223	16	3568
6	Type 4	17.9	224	15	3360
7	Type 4	16.5	493	15	7395
8	Type 4	16.8	443	15	6645
9	Type 4	19.2	403	16	6448
10	Type 4	11.7	471	12	5652
11	Type 4	11.1	248	12	2976
12	Type 4	16.9	454	15	6810
13	Type 4	15.4	227	14	3178
14	Type 4	17.7	448	15	6720
15	Type 4	19.3	300	16	4800
16	Type 4	11.3	400	12	4800
17	Type 4	14.8	467	14	6538
18	Type 4	12.3	222	12	2664
19	Type 4	12.3	252	12	3024
20	Type 4	19.4	412	16	6592
21	Type 4	17	294	15	4410
22	Type 4	19.9	413	16	6608
23	Type 4	19.2	386	16	6176
24	Type 4	17.4	317	15	4755
25	Type 4	14	472	13	6136
26	Type 4	19.4	258	16	4128
27	Type 4	13.2	250	13	3250
28	Type 4	11.7	447	12	5364
29	Type 4	12.2	314	12	3768

Trial Id	Radar Type	Number of Bursts	Burst Period(s)	Waveform Length(s)	Center Frequency (GHz)
0	Type 5	20	0.6	12	5.51
1	Type 5	11	1.090909	12	5.51
2	Type 5	11	1.090909	12	5.51
3	Type 5	15	0.8	12	5.51
4	Type 5	18	0.666667	12	5.51
5	Type 5	18	0.666667	12	5.51
6	Type 5	17	0.705882	12	5.51
7	Type 5	15	0.8	12	5.51
8	Type 5	16	0.75	12	5.51
9	Type 5	19	0.631579	12	5.51
10	Type 5	9	1.333333	12	5.493
11	Type 5	8	1.5	12	5.493
12	Type 5	16	0.75	12	5.497
13	Type 5	14	0.857143	12	5.496
14	Type 5	17	0.705882	12	5.497
15	Type 5	19	0.631579	12	5.499
16	Type 5	8	1.5	12	5.493
17	Type 5	13	0.923077	12	5.495
18	Type 5	9	1.333333	12	5.494
19	Type 5	9	1.333333	12	5.494
20	Type 5	20	0.6	12	5.521
21	Type 5	16	0.75	12	5.523
22	Type 5	20	0.6	12	5.521
23	Type 5	19	0.631579	12	5.521
24	Type 5	17	0.705882	12	5.523
25	Type 5	12	1	12	5.525
26	Type 5	20	0.6	12	5.521
27	Type 5	11	1.090909	12	5.526
28	Type 5	9	1.333333	12	5.527
29	Type 5	9	1.333333	12	5.526

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Pulses per Hop	Hopping Rate (KHz)	Hopping Sequence Length (ms)	Visible Frequency Number
0	Type 6	1	333.3	9	0.3333	300	6
1	Type 6	1	333.3	9	0.3333	300	9
2	Type 6	1	333.3	9	0.3333	300	1
3	Type 6	1	333.3	9	0.3333	300	12
4	Type 6	1	333.3	9	0.3333	300	7
5	Type 6	1	333.3	9	0.3333	300	11
6	Type 6	1	333.3	9	0.3333	300	8
7	Type 6	1	333.3	9	0.3333	300	9
8	Type 6	1	333.3	9	0.3333	300	6
9	Type 6	1	333.3	9	0.3333	300	13
10	Type 6	1	333.3	9	0.3333	300	7
11	Type 6	1	333.3	9	0.3333	300	11
12	Type 6	1	333.3	9	0.3333	300	14
13	Type 6	1	333.3	9	0.3333	300	11
14	Type 6	1	333.3	9	0.3333	300	9
15	Type 6	1	333.3	9	0.3333	300	8
16	Type 6	1	333.3	9	0.3333	300	7
17	Type 6	1	333.3	9	0.3333	300	12
18	Type 6	1	333.3	9	0.3333	300	13
19	Type 6	1	333.3	9	0.3333	300	9
20	Type 6	1	333.3	9	0.3333	300	7
21	Type 6	1	333.3	9	0.3333	300	7
22	Type 6	1	333.3	9	0.3333	300	13
23	Type 6	1	333.3	9	0.3333	300	9
24	Type 6	1	333.3	9	0.3333	300	8
25	Type 6	1	333.3	9	0.3333	300	10
26	Type 6	1	333.3	9	0.3333	300	10
27	Type 6	1	333.3	9	0.3333	300	10
28	Type 6	1	333.3	9	0.3333	300	5
29	Type 6	1	333.3	9	0.3333	300	2

802.11be (80 MHz), 5530 MHz					
Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 1	1	658	81	53298
1	Type 1	1	798	67	53466
2	Type 1	1	738	72	53136
3	Type 1	1	938	57	53466
4	Type 1	1	558	95	53010
5	Type 1	1	518	102	52836
6	Type 1	1	3066	18	55188
7	Type 1	1	878	61	53558
8	Type 1	1	718	74	53132
9	Type 1	1	678	78	52884
10	Type 1	1	918	58	53244
11	Type 1	1	898	59	52982
12	Type 1	1	638	83	52954
13	Type 1	1	618	86	53148
14	Type 1	1	598	89	53222
15	Type 1	1	1182	45	53190
16	Type 1	1	909	59	53631
17	Type 1	1	530	100	53000
18	Type 1	1	1946	28	54488
19	Type 1	1	2259	24	54216
20	Type 1	1	2009	27	54243
21	Type 1	1	865	62	53630
22	Type 1	1	2218	24	53232
23	Type 1	1	1480	36	53280
24	Type 1	1	2523	21	52983
25	Type 1	1	2876	19	54644
26	Type 1	1	2496	22	54912
27	Type 1	1	3046	18	54828
28	Type 1	1	2057	26	53482
29	Type 1	1	2719	20	54380

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 2	4.8	218	29	6322
1	Type 2	2.1	206	24	4944
2	Type 2	1.9	201	24	4824
3	Type 2	3.4	226	27	6102
4	Type 2	4.1	192	28	5376
5	Type 2	4.4	221	28	6188
6	Type 2	4.1	172	28	4816
7	Type 2	3.5	150	27	4050
8	Type 2	3.6	186	27	5022
9	Type 2	4.7	154	29	4466
10	Type 2	1.3	194	23	4462
11	Type 2	1	166	23	3818
12	Type 2	3.6	212	27	5724
13	Type 2	3	228	26	5928
14	Type 2	4	211	28	5908
15	Type 2	4.7	151	29	4379
16	Type 2	1.1	179	23	4117
17	Type 2	2.7	175	25	4375
18	Type 2	1.5	165	24	3960
19	Type 2	1.6	167	24	4008
20	Type 2	4.8	173	29	5017
21	Type 2	3.7	189	27	5103
22	Type 2	5	185	29	5365
23	Type 2	4.7	215	29	6235
24	Type 2	3.8	159	27	4293
25	Type 2	2.3	170	25	4250
26	Type 2	4.8	168	29	4872
27	Type 2	1.9	213	24	5112
28	Type 2	1.3	190	23	4370
29	Type 2	1.5	205	23	4715

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 3	9.8	265	18	4770
1	Type 3	7.1	240	16	3840
2	Type 3	6.9	299	16	4784
3	Type 3	8.4	262	17	4454
4	Type 3	9.1	446	18	8028
5	Type 3	9.4	223	18	4014
6	Type 3	9.1	224	18	4032
7	Type 3	8.5	493	17	8381
8	Type 3	8.6	443	17	7531
9	Type 3	9.7	403	18	7254
10	Type 3	6.3	471	16	7536
11	Type 3	6	248	16	3968
12	Type 3	8.6	454	17	7718
13	Type 3	8	227	17	3859
14	Type 3	9	448	18	8064
15	Type 3	9.7	300	18	5400
16	Type 3	6.1	400	16	6400
17	Type 3	7.7	467	17	7939
18	Type 3	6.5	222	16	3552
19	Type 3	6.6	252	16	4032
20	Type 3	9.8	412	18	7416
21	Type 3	8.7	294	18	5292
22	Type 3	10	413	18	7434
23	Type 3	9.7	386	18	6948
24	Type 3	8.8	317	18	5706
25	Type 3	7.3	472	17	8024
26	Type 3	9.8	258	18	4644
27	Type 3	6.9	250	16	4000
28	Type 3	6.3	447	16	7152
29	Type 3	6.5	314	16	5024

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 4	19.4	265	16	4240
1	Type 4	13.4	240	13	3120
2	Type 4	13.1	299	13	3887
3	Type 4	16.4	262	15	3930
4	Type 4	18	446	15	6690
5	Type 4	18.5	223	16	3568
6	Type 4	17.9	224	15	3360
7	Type 4	16.5	493	15	7395
8	Type 4	16.8	443	15	6645
9	Type 4	19.2	403	16	6448
10	Type 4	11.7	471	12	5652
11	Type 4	11.1	248	12	2976
12	Type 4	16.9	454	15	6810
13	Type 4	15.4	227	14	3178
14	Type 4	17.7	448	15	6720
15	Type 4	19.3	300	16	4800
16	Type 4	11.3	400	12	4800
17	Type 4	14.8	467	14	6538
18	Type 4	12.3	222	12	2664
19	Type 4	12.3	252	12	3024
20	Type 4	19.4	412	16	6592
21	Type 4	17	294	15	4410
22	Type 4	19.9	413	16	6608
23	Type 4	19.2	386	16	6176
24	Type 4	17.4	317	15	4755
25	Type 4	14	472	13	6136
26	Type 4	19.4	258	16	4128
27	Type 4	13.2	250	13	3250
28	Type 4	11.7	447	12	5364
29	Type 4	12.2	314	12	3768

Trial Id	Radar Type	Number of Bursts	Burst Period(s)	Waveform Length(s)	Center Frequency (GHz)
0	Type 5	20	0.6	12	5.53
1	Type 5	11	1.090909	12	5.53
2	Type 5	11	1.090909	12	5.53
3	Type 5	15	0.8	12	5.53
4	Type 5	18	0.666667	12	5.53
5	Type 5	18	0.666667	12	5.53
6	Type 5	17	0.705882	12	5.53
7	Type 5	15	0.8	12	5.53
8	Type 5	16	0.75	12	5.53
9	Type 5	19	0.631579	12	5.53
10	Type 5	9	1.333333	12	5.494
11	Type 5	8	1.5	12	5.494
12	Type 5	16	0.75	12	5.498
13	Type 5	14	0.857143	12	5.496
14	Type 5	17	0.705882	12	5.498
15	Type 5	19	0.631579	12	5.499
16	Type 5	8	1.5	12	5.494
17	Type 5	13	0.923077	12	5.496
18	Type 5	9	1.333333	12	5.494
19	Type 5	9	1.333333	12	5.494
20	Type 5	20	0.6	12	5.561
21	Type 5	16	0.75	12	5.562
22	Type 5	20	0.6	12	5.56
23	Type 5	19	0.631579	12	5.561
24	Type 5	17	0.705882	12	5.562
25	Type 5	12	1	12	5.564
26	Type 5	20	0.6	12	5.561
27	Type 5	11	1.090909	12	5.565
28	Type 5	9	1.333333	12	5.566
29	Type 5	9	1.333333	12	5.566

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Pulses per Hop	Hopping Rate (KHz)	Hopping Sequence Length (ms)	Visible Frequency Number
0	Type 6	1	333.3	9	0.3333	300	11
1	Type 6	1	333.3	9	0.3333	300	16
2	Type 6	1	333.3	9	0.3333	300	12
3	Type 6	1	333.3	9	0.3333	300	18
4	Type 6	1	333.3	9	0.3333	300	19
5	Type 6	1	333.3	9	0.3333	300	21
6	Type 6	1	333.3	9	0.3333	300	18
7	Type 6	1	333.3	9	0.3333	300	19
8	Type 6	1	333.3	9	0.3333	300	16
9	Type 6	1	333.3	9	0.3333	300	20
10	Type 6	1	333.3	9	0.3333	300	15
11	Type 6	1	333.3	9	0.3333	300	19
12	Type 6	1	333.3	9	0.3333	300	27
13	Type 6	1	333.3	9	0.3333	300	22
14	Type 6	1	333.3	9	0.3333	300	14
15	Type 6	1	333.3	9	0.3333	300	17
16	Type 6	1	333.3	9	0.3333	300	14
17	Type 6	1	333.3	9	0.3333	300	21
18	Type 6	1	333.3	9	0.3333	300	22
19	Type 6	1	333.3	9	0.3333	300	12
20	Type 6	1	333.3	9	0.3333	300	18
21	Type 6	1	333.3	9	0.3333	300	15
22	Type 6	1	333.3	9	0.3333	300	21
23	Type 6	1	333.3	9	0.3333	300	16
24	Type 6	1	333.3	9	0.3333	300	19
25	Type 6	1	333.3	9	0.3333	300	20
26	Type 6	1	333.3	9	0.3333	300	16
27	Type 6	1	333.3	9	0.3333	300	14
28	Type 6	1	333.3	9	0.3333	300	17
29	Type 6	1	333.3	9	0.3333	300	9

802.11be (160 MHz), 5290 MHz					
Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 1	1	658	81	53298
1	Type 1	1	798	67	53466
2	Type 1	1	738	72	53136
3	Type 1	1	938	57	53466
4	Type 1	1	558	95	53010
5	Type 1	1	518	102	52836
6	Type 1	1	3066	18	55188
7	Type 1	1	878	61	53558
8	Type 1	1	718	74	53132
9	Type 1	1	678	78	52884
10	Type 1	1	918	58	53244
11	Type 1	1	898	59	52982
12	Type 1	1	638	83	52954
13	Type 1	1	618	86	53148
14	Type 1	1	598	89	53222
15	Type 1	1	1182	45	53190
16	Type 1	1	909	59	53631
17	Type 1	1	530	100	53000
18	Type 1	1	1946	28	54488
19	Type 1	1	2259	24	54216
20	Type 1	1	2009	27	54243
21	Type 1	1	865	62	53630
22	Type 1	1	2218	24	53232
23	Type 1	1	1480	36	53280
24	Type 1	1	2523	21	52983
25	Type 1	1	2876	19	54644
26	Type 1	1	2496	22	54912
27	Type 1	1	3046	18	54828
28	Type 1	1	2057	26	53482
29	Type 1	1	2719	20	54380

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 2	4.8	218	29	6322
1	Type 2	2.1	206	24	4944
2	Type 2	1.9	201	24	4824
3	Type 2	3.4	226	27	6102
4	Type 2	4.1	192	28	5376
5	Type 2	4.4	221	28	6188
6	Type 2	4.1	172	28	4816
7	Type 2	3.5	150	27	4050
8	Type 2	3.6	186	27	5022
9	Type 2	4.7	154	29	4466
10	Type 2	1.3	194	23	4462
11	Type 2	1	166	23	3818
12	Type 2	3.6	212	27	5724
13	Type 2	3	228	26	5928
14	Type 2	4	211	28	5908
15	Type 2	4.7	151	29	4379
16	Type 2	1.1	179	23	4117
17	Type 2	2.7	175	25	4375
18	Type 2	1.5	165	24	3960
19	Type 2	1.6	167	24	4008
20	Type 2	4.8	173	29	5017
21	Type 2	3.7	189	27	5103
22	Type 2	5	185	29	5365
23	Type 2	4.7	215	29	6235
24	Type 2	3.8	159	27	4293
25	Type 2	2.3	170	25	4250
26	Type 2	4.8	168	29	4872
27	Type 2	1.9	213	24	5112
28	Type 2	1.3	190	23	4370
29	Type 2	1.5	205	23	4715

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 3	9.8	265	18	4770
1	Type 3	7.1	240	16	3840
2	Type 3	6.9	299	16	4784
3	Type 3	8.4	262	17	4454
4	Type 3	9.1	446	18	8028
5	Type 3	9.4	223	18	4014
6	Type 3	9.1	224	18	4032
7	Type 3	8.5	493	17	8381
8	Type 3	8.6	443	17	7531
9	Type 3	9.7	403	18	7254
10	Type 3	6.3	471	16	7536
11	Type 3	6	248	16	3968
12	Type 3	8.6	454	17	7718
13	Type 3	8	227	17	3859
14	Type 3	9	448	18	8064
15	Type 3	9.7	300	18	5400
16	Type 3	6.1	400	16	6400
17	Type 3	7.7	467	17	7939
18	Type 3	6.5	222	16	3552
19	Type 3	6.6	252	16	4032
20	Type 3	9.8	412	18	7416
21	Type 3	8.7	294	18	5292
22	Type 3	10	413	18	7434
23	Type 3	9.7	386	18	6948
24	Type 3	8.8	317	18	5706
25	Type 3	7.3	472	17	8024
26	Type 3	9.8	258	18	4644
27	Type 3	6.9	250	16	4000
28	Type 3	6.3	447	16	7152
29	Type 3	6.5	314	16	5024

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 4	19.4	265	16	4240
1	Type 4	13.4	240	13	3120
2	Type 4	13.1	299	13	3887
3	Type 4	16.4	262	15	3930
4	Type 4	18	446	15	6690
5	Type 4	18.5	223	16	3568
6	Type 4	17.9	224	15	3360
7	Type 4	16.5	493	15	7395
8	Type 4	16.8	443	15	6645
9	Type 4	19.2	403	16	6448
10	Type 4	11.7	471	12	5652
11	Type 4	11.1	248	12	2976
12	Type 4	16.9	454	15	6810
13	Type 4	15.4	227	14	3178
14	Type 4	17.7	448	15	6720
15	Type 4	19.3	300	16	4800
16	Type 4	11.3	400	12	4800
17	Type 4	14.8	467	14	6538
18	Type 4	12.3	222	12	2664
19	Type 4	12.3	252	12	3024
20	Type 4	19.4	412	16	6592
21	Type 4	17	294	15	4410
22	Type 4	19.9	413	16	6608
23	Type 4	19.2	386	16	6176
24	Type 4	17.4	317	15	4755
25	Type 4	14	472	13	6136
26	Type 4	19.4	258	16	4128
27	Type 4	13.2	250	13	3250
28	Type 4	11.7	447	12	5364
29	Type 4	12.2	314	12	3768

Trial Id	Radar Type	Number of Bursts	Burst Period(s)	Waveform Length(s)	Center Frequency (GHz)
0	Type 5	20	0.6	12	5.29
1	Type 5	11	1.090909	12	5.29
2	Type 5	11	1.090909	12	5.29
3	Type 5	15	0.8	12	5.29
4	Type 5	18	0.666667	12	5.29
5	Type 5	18	0.666667	12	5.29
6	Type 5	17	0.705882	12	5.29
7	Type 5	15	0.8	12	5.29
8	Type 5	16	0.75	12	5.29
9	Type 5	19	0.631579	12	5.29
10	Type 5	9	1.333333	12	5.254
11	Type 5	8	1.5	12	5.254
12	Type 5	16	0.75	12	5.258
13	Type 5	14	0.857143	12	5.256
14	Type 5	17	0.705882	12	5.258
15	Type 5	19	0.631579	12	5.259
16	Type 5	8	1.5	12	5.254
17	Type 5	13	0.923077	12	5.256
18	Type 5	9	1.333333	12	5.254
19	Type 5	9	1.333333	12	5.254
20	Type 5	20	0.6	12	5.321
21	Type 5	16	0.75	12	5.322
22	Type 5	20	0.6	12	5.32
23	Type 5	19	0.631579	12	5.321
24	Type 5	17	0.705882	12	5.322
25	Type 5	12	1	12	5.324
26	Type 5	20	0.6	12	5.321
27	Type 5	11	1.090909	12	5.325
28	Type 5	9	1.333333	12	5.326
29	Type 5	9	1.333333	12	5.326

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Pulses per Hop	Hopping Rate (KHz)	Hopping Sequence Length (ms)	Visible Frequency Number
0	Type 6	1	333.3	9	0.3333	300	15
1	Type 6	1	333.3	9	0.3333	300	20
2	Type 6	1	333.3	9	0.3333	300	23
3	Type 6	1	333.3	9	0.3333	300	15
4	Type 6	1	333.3	9	0.3333	300	14
5	Type 6	1	333.3	9	0.3333	300	14
6	Type 6	1	333.3	9	0.3333	300	16
7	Type 6	1	333.3	9	0.3333	300	16
8	Type 6	1	333.3	9	0.3333	300	14
9	Type 6	1	333.3	9	0.3333	300	20
10	Type 6	1	333.3	9	0.3333	300	13
11	Type 6	1	333.3	9	0.3333	300	10
12	Type 6	1	333.3	9	0.3333	300	13
13	Type 6	1	333.3	9	0.3333	300	13
14	Type 6	1	333.3	9	0.3333	300	14
15	Type 6	1	333.3	9	0.3333	300	15
16	Type 6	1	333.3	9	0.3333	300	22
17	Type 6	1	333.3	9	0.3333	300	15
18	Type 6	1	333.3	9	0.3333	300	15
19	Type 6	1	333.3	9	0.3333	300	15
20	Type 6	1	333.3	9	0.3333	300	18
21	Type 6	1	333.3	9	0.3333	300	16
22	Type 6	1	333.3	9	0.3333	300	10
23	Type 6	1	333.3	9	0.3333	300	10
24	Type 6	1	333.3	9	0.3333	300	19
25	Type 6	1	333.3	9	0.3333	300	13
26	Type 6	1	333.3	9	0.3333	300	24
27	Type 6	1	333.3	9	0.3333	300	17
28	Type 6	1	333.3	9	0.3333	300	18
29	Type 6	1	333.3	9	0.3333	300	12

802.11be (160 MHz), 5570 MHz					
Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 1	1	938	57	53466
1	Type 1	1	698	76	53048
2	Type 1	1	618	86	53148
3	Type 1	1	538	99	53262
4	Type 1	1	878	61	53558
5	Type 1	1	3066	18	55188
6	Type 1	1	638	83	52954
7	Type 1	1	918	58	53244
8	Type 1	1	838	63	52794
9	Type 1	1	858	62	53196
10	Type 1	1	798	67	53466
11	Type 1	1	718	74	53132
12	Type 1	1	578	92	53176
13	Type 1	1	598	89	53222
14	Type 1	1	558	95	53010
15	Type 1	1	2536	21	53256
16	Type 1	1	966	55	53130
17	Type 1	1	827	64	52928
18	Type 1	1	2501	22	55022
19	Type 1	1	2595	21	54495
20	Type 1	1	1114	48	53472
21	Type 1	1	1302	41	53382
22	Type 1	1	3045	18	54810
23	Type 1	1	1624	33	53592
24	Type 1	1	2878	19	54682
25	Type 1	1	1027	52	53404
26	Type 1	1	2485	22	54670
27	Type 1	1	1600	33	52800
28	Type 1	1	1172	46	53912
29	Type 1	1	1177	45	52965

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 2	3.2	179	26	4654
1	Type 2	1.1	207	23	4761
2	Type 2	2.1	230	24	5520
3	Type 2	4.8	200	29	5800
4	Type 2	3.9	214	28	5992
5	Type 2	2.9	222	26	5772
6	Type 2	3.2	204	26	5304
7	Type 2	2.5	192	25	4800
8	Type 2	3.1	164	26	4264
9	Type 2	1.2	156	23	3588
10	Type 2	3.9	210	27	5670
11	Type 2	4.6	201	29	5829
12	Type 2	3.2	162	26	4212
13	Type 2	2.2	197	25	4925
14	Type 2	4.5	163	29	4727
15	Type 2	3	203	26	5278
16	Type 2	5	168	29	4872
17	Type 2	2.4	217	25	5425
18	Type 2	2.9	191	26	4966
19	Type 2	2.3	166	25	4150
20	Type 2	3.7	150	27	4050
21	Type 2	2.2	176	25	4400
22	Type 2	4.9	195	29	5655
23	Type 2	2.9	202	26	5252
24	Type 2	2.5	178	25	4450
25	Type 2	1.1	206	23	4738
26	Type 2	3.8	155	27	4185
27	Type 2	4.7	157	29	4553
28	Type 2	2.4	224	25	5600
29	Type 2	4.2	159	28	4452

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 3	8.2	355	17	6035
1	Type 3	6.1	487	16	7792
2	Type 3	7.1	344	16	5504
3	Type 3	9.8	288	18	5184
4	Type 3	8.9	230	18	4140
5	Type 3	7.9	432	17	7344
6	Type 3	8.2	207	17	3519
7	Type 3	7.5	443	17	7531
8	Type 3	8.1	439	17	7463
9	Type 3	6.2	223	16	3568
10	Type 3	8.9	208	18	3744
11	Type 3	9.6	463	18	8334
12	Type 3	8.2	441	17	7497
13	Type 3	7.2	323	16	5168
14	Type 3	9.5	297	18	5346
15	Type 3	8	412	17	7004
16	Type 3	10	324	18	5832
17	Type 3	7.4	271	17	4607
18	Type 3	7.9	349	17	5933
19	Type 3	7.3	409	16	6544
20	Type 3	8.7	373	18	6714
21	Type 3	7.2	254	16	4064
22	Type 3	9.9	274	18	4932
23	Type 3	7.9	278	17	4726
24	Type 3	7.5	317	17	5389
25	Type 3	6.1	260	16	4160
26	Type 3	8.8	211	18	3798
27	Type 3	9.7	272	18	4896
28	Type 3	7.4	264	17	4488
29	Type 3	9.2	284	18	5112

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 4	16	355	14	4970
1	Type 4	11.3	487	12	5844
2	Type 4	13.5	344	13	4472
3	Type 4	19.4	288	16	4608
4	Type 4	17.5	230	15	3450
5	Type 4	15.3	432	14	6048
6	Type 4	15.9	207	14	2898
7	Type 4	14.3	443	13	5759
8	Type 4	15.8	439	14	6146
9	Type 4	11.5	223	12	2676
10	Type 4	17.4	208	15	3120
11	Type 4	19	463	16	7408
12	Type 4	16	441	14	6174
13	Type 4	13.8	323	13	4199
14	Type 4	18.9	297	16	4752
15	Type 4	15.5	412	14	5768
16	Type 4	19.9	324	16	5184
17	Type 4	14.1	271	13	3523
18	Type 4	15.2	349	14	4886
19	Type 4	13.8	409	13	5317
20	Type 4	17.1	373	15	5595
21	Type 4	13.8	254	13	3302
22	Type 4	19.8	274	16	4384
23	Type 4	15.3	278	14	3892
24	Type 4	14.5	317	13	4121
25	Type 4	11.3	260	12	3120
26	Type 4	17.3	211	15	3165
27	Type 4	19.2	272	16	4352
28	Type 4	14.2	264	13	3432
29	Type 4	18.2	284	15	4260

Trial Id	Radar Type	Number of Bursts	Burst Period(s)	Waveform Length(s)	Center Frequency (GHz)
0	Type 5	15	0.8	12	5.57
1	Type 5	8	1.5	12	5.57
2	Type 5	11	1.090909	12	5.57
3	Type 5	20	0.6	12	5.57
4	Type 5	17	0.705882	12	5.57
5	Type 5	14	0.857143	12	5.57
6	Type 5	15	0.8	12	5.57
7	Type 5	12	1	12	5.57
8	Type 5	14	0.857143	12	5.57
9	Type 5	8	1.5	12	5.57
10	Type 5	17	0.705882	12	5.499
11	Type 5	19	0.631579	12	5.5
12	Type 5	15	0.8	12	5.498
13	Type 5	12	1	12	5.496
14	Type 5	19	0.631579	12	5.5
15	Type 5	14	0.857143	12	5.497
16	Type 5	20	0.6	12	5.5
17	Type 5	12	1	12	5.496
18	Type 5	14	0.857143	12	5.497
19	Type 5	12	1	12	5.496
20	Type 5	16	0.75	12	5.642
21	Type 5	12	1	12	5.644
22	Type 5	20	0.6	12	5.64
23	Type 5	14	0.857143	12	5.643
24	Type 5	13	0.923077	12	5.643
25	Type 5	8	1.5	12	5.646
26	Type 5	17	0.705882	12	5.641
27	Type 5	19	0.631579	12	5.64
28	Type 5	12	1	12	5.644
29	Type 5	18	0.666667	12	5.641

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Pulses per Hop	Hopping Rate (KHz)	Hopping Sequence Length (ms)	Visible Frequency Number
0	Type 6	1	333.3	9	0.3333	300	30
1	Type 6	1	333.3	9	0.3333	300	35
2	Type 6	1	333.3	9	0.3333	300	31
3	Type 6	1	333.3	9	0.3333	300	32
4	Type 6	1	333.3	9	0.3333	300	26
5	Type 6	1	333.3	9	0.3333	300	37
6	Type 6	1	333.3	9	0.3333	300	32
7	Type 6	1	333.3	9	0.3333	300	36
8	Type 6	1	333.3	9	0.3333	300	27
9	Type 6	1	333.3	9	0.3333	300	37
10	Type 6	1	333.3	9	0.3333	300	33
11	Type 6	1	333.3	9	0.3333	300	43
12	Type 6	1	333.3	9	0.3333	300	33
13	Type 6	1	333.3	9	0.3333	300	27
14	Type 6	1	333.3	9	0.3333	300	35
15	Type 6	1	333.3	9	0.3333	300	41
16	Type 6	1	333.3	9	0.3333	300	32
17	Type 6	1	333.3	9	0.3333	300	29
18	Type 6	1	333.3	9	0.3333	300	36
19	Type 6	1	333.3	9	0.3333	300	34
20	Type 6	1	333.3	9	0.3333	300	37
21	Type 6	1	333.3	9	0.3333	300	32
22	Type 6	1	333.3	9	0.3333	300	45
23	Type 6	1	333.3	9	0.3333	300	26
24	Type 6	1	333.3	9	0.3333	300	32
25	Type 6	1	333.3	9	0.3333	300	35
26	Type 6	1	333.3	9	0.3333	300	34
27	Type 6	1	333.3	9	0.3333	300	41
28	Type 6	1	333.3	9	0.3333	300	30
29	Type 6	1	333.3	9	0.3333	300	30