

Test Report

Verified code: 380956

Report No.: E202212085403-01-4

Customer: Fiberhome Telecommunication Technologies Co., Ltd.

Address: No.88 Youkeyuan Road, Hongshan District, Wuhan,Hubei, China

Sample Name: Wireless Router

Sample Model: SR1021FS

Receive Sample Date: Dec.10,2022

Test Date: Dec.14,2022 ~ Jan.10,2023

Reference Document: CFR 47, FCC Parts 15 Subpart E Unlicensed National Information Infrastructure Devices

Test Result: Pass

Prepared by: Lu Wei **Reviewed by:** Jiang Tao



GUANGZHOU GRG METROLOGY & TEST CO., LTD.

Issued Date: 2023-02-27

GUANGZHOU GRG METROLOGY & TEST CO., LTD

Address: No.163 Xipingyun Road, Huangpu Avenue, Tianhe District, Guangzhou (510656)

Tel: (+86) 400-602-0999 **FAX:** (+86) 020-38698685 **Web:** <http://www.grgtest.com>



Statement

- 1.The report is invalid without "special seal for inspection and testing"; some copies are invalid; The report is invalid if it is altered or missing; The report is invalid without the signature of the person who prepared, reviewed and approved it.
- 2.The sample information is provided by the client and responsible for its authenticity; The content of the report is only valid for the samples sent this time.
- 3.When there are reports in both Chinese and English, the Chinese version will prevail when the language problems are inconsistent.
- 4.If there is any objection concerning the report, please inform us within 15 days from the date of receiving the report.
- 5.Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda.

----- The following blanks -----

Table of Contents

1.	TEST RESULT SUMMARY	5
2.	GENERAL DESCRIPTION OF EUT.....	6
2.1	APPLICANT	6
2.2	MANUFACTURER.....	6
2.3	FACTORY	6
2.4	BASIC DESCRIPTION OF EQUIPMENT UNDER TEST	6
2.5	TEST OPERATION MODE	7
3.	LABORATORY AND ACCREDITATIONS AND MEASUREMENT UNCERTAINTY	8
3.1	LABORATORY	8
3.2	ACCREDITATIONS	8
3.3	MEASUREMENT UNCERTAINTY	8
4.	LIST OF USED TEST EQUIPMENT AT GRGT	9
5.	EIRP POWER	9
6.	DYNAMIC FREQUENCY SELECTION REQUIREMENTS.....	11
6.1	DFS OVERVIEW	11
6.2	DFS DETECTION THRESHOLDS	12
6.3	RESPONSE REQUIREMENTS	12
6.4	RADAR TEST WAVEFORMS	13
6.4.1	SHORT PULSE RADAR TEST WAVEFORMS	13
6.4.2	LONG PULSE RADAR TEST WAVEFORM.....	15
6.4.3	FREQUENCY HOPPING RADAR TEST WAVEFORM	16
6.5	TEST SETUP	16
7.	TEST RESULTS.....	17
7.1	CHANNEL LOADING.....	17
7.2	RADAR WAVEFORM DETECTION THRESHOLD.....	17
7.3	CHANNEL AVAILABILITY CHECK TIME	64
7.4	CHANNEL MOVE TIME&CHANNEL CLOSE TRANSMISSION TIME TEST RESULT	76
7.5	STATISTICAL PERFORMANCE CHECK.....	79
7.6	NON-OCCUPANCY PERIOD TEST RESULT	111
7.7	U-NII DETECTION BANDWIDTH TEST RESULT	114
	APPENDIX A. PHOTOGRAPH OF THE EUT	127

REPORT ISSUED HISTORY

Report Version	Report No.	Description	Compile Date
1.0	E202212085403-01-4	Original Issue	2023-02-21

----- The following blanks -----

1. TEST RESULT SUMMARY

CFR 47, FCC Parts 15 Subpart E (§15.407)				
Item	Test Mode		FCC Standard Section	Result
DFS Detection Threshold	IEEE 802.11a	5320MHz/5500MHz	15.407(h)	PASS
	IEEE 802.11n HT40	5310MHz/5510MHz		
	IEEE 802.11ac VHT80	5290MHz/5530MHz		
	IEEE 802.11ax HE160	5250MHz/5570MHz		
Channel Availability Check Time	IEEE 802.11a	5320MHz/5500MHz	15.407(h)	PASS
	IEEE 802.11n HT40	5310MHz/5510MHz		
	IEEE 802.11ac VHT80	5290MHz/5530MHz		
	IEEE 802.11ax HE160	5250MHz/5570MHz		
Channel Closing Transmission Time	IEEE 802.11a	5320MHz/5500MHz	15.407(h)	PASS
	IEEE 802.11ac VHT80	5290MHz		
	IEEE 802.11ax HE160	5570MHz		
Channel Move Time	IEEE 802.11a	5320MHz/5500MHz	15.407(h)	PASS
	IEEE 802.11ac VHT80	5290MHz		
	IEEE 802.11ax HE160	5570MHz		
Non-Occupancy Period	IEEE 802.11a	5320MHz/5500MHz	15.407(h)	PASS
	IEEE 802.11ac VHT80	5290MHz		
	IEEE 802.11ax HE160	5570MHz		
U-NII Detection Bandwidth	IEEE 802.11a	5320MHz/5500MHz	15.407(h)	PASS
	IEEE 802.11n HT40	5310MHz/5510MHz		
	IEEE 802.11ac VHT80	5290MHz/5530MHz		
	IEEE 802.11ax HE160	5250MHz/5570MHz		

Note: Recorded the worst case results in this report.

----- The following blanks -----

2. GENERAL DESCRIPTION OF EUT

2.1 APPLICANT

Name: Fiberhome Telecommunication Technologies Co., Ltd.
Address: No.88 Youkeyuan Road, Hongshan District, Wuhan,Hubei, China

2.2 MANUFACTURER

Name: Fiberhome Telecommunication Technologies Co., Ltd.
Address: No.88 Youkeyuan Road, Hongshan District, Wuhan,Hubei, China

2.3 FACTORY

Name: Fiberhome Telecommunication Technologies Co., Ltd.
Address: No.67,Chuangye Street,East Lake High-tech Development Zone,WuhanCity,HubeiProvince,P.R.China

2.4 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Equipment: Wireless Router
Model No.: SR1021FS
Adding Model: /
Trade Name: FiberHome
FCC ID: 2AV2N-SR1021FS
Power supply: DC12V power supplied by adapter
Adapter Specification: Adapter1: KL-WA120100-D
Input:100-240V~50/60Hz 0.5A Max
Output:12V  1.0A
Adapter2: RD1201000-C55-35MGD
Input:100-240V~50/60Hz 0.6A Max
Output:12V  1A
Operation Frequency Range: U-NII-2A: 5260 MHz~5320 MHz
U-NII-2C: 5500 MHz~5700 MHz
Modulation type: OFDM, OFDMA
Number Of Channel: U-NII-2A:
IEEE 802.11a / n HT20 / ac VHT20 / ax HE20: 4 Channels
IEEE 802.11n HT40 / ac VHT40 / ax HE40: 2 Channels
IEEE 802.11ac VHT80 / ax HE80: 1 Channel
IEEE 802.11ax HE160: 1 Channel
U-NII-2C:
IEEE 802.11a / n HT20 / ac VHT20 / ax HE20: 11 Channels
IEEE 802.11n HT40 / ac VHT40 / ax HE40: 5 Channels
IEEE 802.11ac VHT80 / ax HE80: 2 Channel
IEEE 802.11ax HE160: 1 Channel
Channels Spacing: IEEE 802.11a: 20MHz
IEEE 802.11n HT20/ ac VHT20 / ax HE20: 20MHz

	IEEE 802.11n HT40/ ac VHT40 / ax HE40: 40MHz IEEE 802.11ac VHT80 / ax HE80: 80MHz IEEE 802.11 ax HE160:160MHz
Antenna Specification:	Internal antenna U-NII-2A: PCBantenna 1 with 3.20dBi gain (Max.) PCBantenna 2 with 3.20dBi gain (Max.) On Board antenna 3 with 3.36dBi gain (Max.) U-NII-2C: PCBantenna 1 with 3.26dBi gain (Max.) PCBantenna 2 with 3.26dBi gain (Max.) On Board antenna 3 with 3.25dBi gain (Max.)
Operating Mode	☒ Master ☐ Client with radar detection ☐ Client without radar detection
TPC Funtion	☐ With TPC ☒ Without TPC
Temperature Range:	0 ℃ ~ +45 ℃
Hardware Version:	/
Software Version:	V1.0
Sample No:	E202212085403-01-0001
Note:	After the EUT is powered on, the time from connecting the device to successful full startup is 154 seconds.

2.5 TEST OPERATION MODE

Mode No.	Description of the modes
1	5G Wi-Fi work normally

Note: NB1 connects to the EUT through the WLAN port, logs in to the UI to set the default working channel of 5G WIFI, and NB2 connects to the 5G WIFI SSID of the EUT to establish data transmission.

----- The following blanks -----

3. LABORATORY AND ACCREDITATIONS AND MEASUREMENT UNCERTAINTY

3.1 LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of Guangzhou GRG Metrology & Test Co., Ltd.

Add : No.1301 Guanguang Road Xinlan Community, Guanlan Street, Longhua District
Shenzhen, 518110, People's Republic of China

P.C. : 518110

Tel : 0755-61180008

Fax : 0755-61180008

3.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA A2LA(Certificate #2861.01)

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada ISED (Company Number: 24897, CAB identifier:CN0069)

USA FCC (Registration Number: 759402, Designation Number:CN1198)

Copies of granted accreditation certificates are available for downloading from our web site,
<http://www.grgtest.com>

3.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Uncertainty
RF frequency	6.0×10^{-6}
RF power conducted	0.78 dB
Occupied channel bandwidth	0.4 dB
Unwanted emission, conducted	0.68 dB
Humidity	6 %
Temperature	2°C

This uncertainty represents an expanded uncertainty factor of k=2.

4. LIST OF USED TEST EQUIPMENT AT GRGT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSV3044	101184	2023-09-02
Vector signal generator	R&S	SMM100A	101629	2023-10-20
Power Splitter	Qualwave	QPD2-380-8000-30-S	21255026	2023-06-19
Power Splitter	Qualwave	QPD2-380-8000-30-S	21255027	2023-06-19
Attenuator	SHX	GKTS2-2-99-18-A7-B	20113001	2023-11-06
Attenuator	SHX	GKTS2-2-99-18-A7-B	20113002	2023-11-06
Client	DELL	Latitude	CYOGJW2	/

Note: The calibration interval of the above test instruments is 12 months.

5. EIRP POWER

Band	Test Mode	Maximum Conducted Power (dBm)			Antenna Gain (dBi)			Total Maximum EIRP Power (mW)
		Ant 1	Ant 2	Ant 3	Ant 1	Ant2	Ant 3	
UNII-2A (5250 MHz~5350 MHz)	IEEE 802.11 a	7.55	8.58	7.75	3.20	3.20	3.36	15.066
	IEEE 802.11n HT20	8.31	8.74	8.29				44.411
	IEEE 802.11n HT40	6.76	6.84	6.96				30.766
	IEEE 802.11ac VHT20	8.78	8.44	8.7				46.434
	IEEE 802.11ac VHT40	6.41	6.97	6.84				30.012
	IEEE 802.11ac VHT80	3.65	3.96	4.01				15.5
	IEEE 802.11ax HE20	3.51	3.8	3.25				14.281
	IEEE 802.11ax HE40	3.61	3.76	4.04				15.259
	IEEE 802.11ax HE80	3.9	4.45	3.6				15.916
	IEEE 802.11ax HE160	4.3	4.1	4.96				17.786
UNII-2C (5470 MHz~5725 MHz)	IEEE 802.11 a	9.35	8.72	7.57	3.26	3.26	3.25	18.24
	IEEE 802.11n HT20	9.84	8.67	8.07				49.565
	IEEE 802.11n HT40	8.18	6.55	6.95				33.975
	IEEE 802.11ac VHT20	9.09	8.29	8.8				47.500
	IEEE 802.11ac VHT40	8.58	7.44	6.73				36.979

	IEEE 802.11ac VHT80	5.22	4.48	3.77				18.025
	IEEE 802.11ax HE20	4.37	3.37	3.39				15.010
	IEEE 802.11ax HE40	4.82	4.06	4.07				17.217
	IEEE 802.11ax HE80	5.03	4.03	3.72				17.081
	IEEE 802.11ax HE160	5.22	4.22	4.26				18.281

----- **The following blanks** -----

6. DYNAMIC FREQUENCY SELECTION REQUIREMENTS

6.1 DFS OVERVIEW

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.		

----- The following blanks -----

6.2 DFS DETECTION THRESHOLDS

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 $\geq$ 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.	

6.3 RESPONSE REQUIREMENTS

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic	

6.4 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.

6.4.1 SHORT PULSE RADAR TEST WAVEFORMS

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

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

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 μsec is selected, the number of pulses would be $\text{Roundup} \left\{ \left(\frac{1}{360} \right) (19 \times 10^6 / 3066) \right\} = \text{Round up} \{17.2\} = 18$.

Table 5a - Pulse Repetition Intervals Values for Test A

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

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
1	35	29	82.9%
2	30	18	60%
3	30	27	90%
4	50	44	88%
Aggregate $(82.9\% + 60\% + 90\% + 88\%)/4 = 80.2\%$			

6.4.2 LONG PULSE RADAR TEST WAVEFORM

Table 6 – Long Pulse Radar Test Waveform

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

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

Each waveform is defined as follows:

- 1) The transmission period for the Long Pulse Radar test signal is 12 seconds.
- 2) There are a total of 8 to 20 *Bursts* in the 12 second period, with the number of *Bursts* being randomly chosen. This number is *Burst Count*.
- 3) Each *Burst* consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each *Burst* within the 12 second sequence may have a different number of pulses.
- 4) The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a *Burst* will have the same pulse width. Pulses in different *Bursts* may have different pulse widths.
- 5) Each pulse has a linear frequency modulated chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a *transmission period* will have the same chirp width. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.
- 6) If more than one pulse is present in a *Burst*, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a *Burst*, the random time interval between the first and second pulses is chosen independently of the random time interval between the second and third pulses.
- 7) The 12 second transmission period is divided into even intervals. The number of intervals is equal to *Burst Count*. Each interval is of length $(12,000,000 / \text{Burst Count})$ microseconds. Each interval contains one *Burst*. The start time for the *Burst*, relative to the beginning of the interval, is between 1 and $[(12,000,000 / \text{Burst Count}) - (\text{Total Burst Length}) + (\text{One Random PRI Interval})]$ microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each *Burst* is chosen randomly.

A representative example of a Long Pulse Radar Type waveform:

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

6.4.3 FREQUENCY HOPPING RADAR TEST WAVEFORM

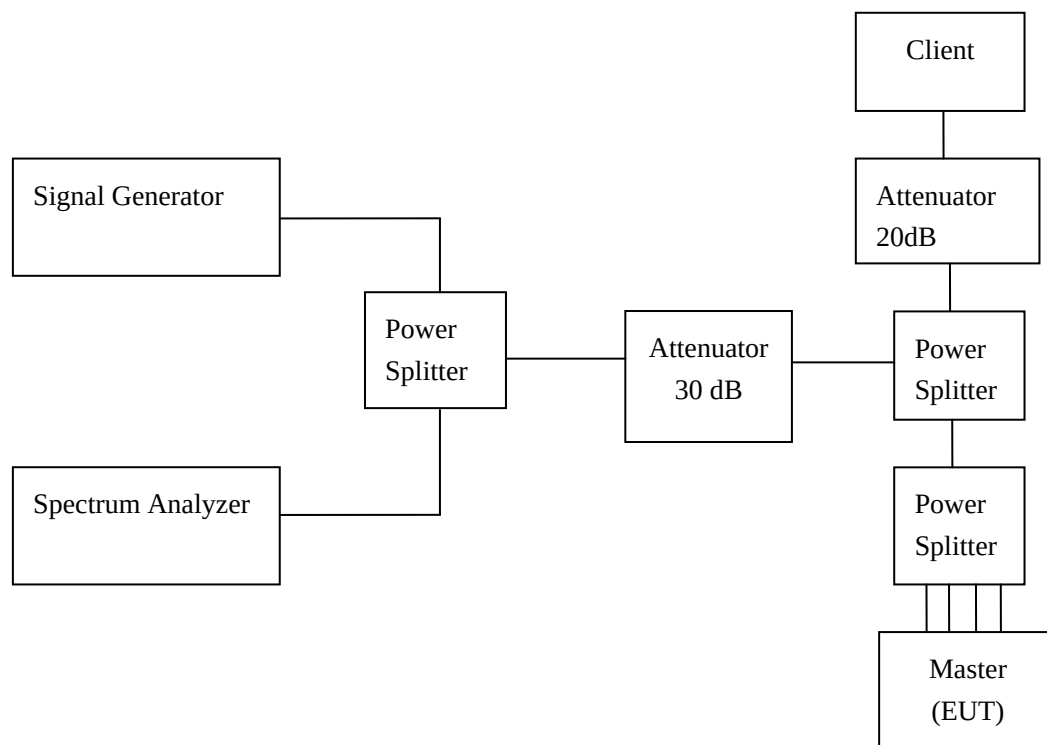
Table 7 – Frequency Hopping Radar Test Waveform

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

For the Frequency Hopping Radar Type, the same *Burst* parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

6.5 TEST SETUP



7. TEST RESULTS

Environmental Conditions	22.3℃/49%RH	Test Voltage	AC120V/60Hz
Tested By	Qin Tingting	Tested Date	2022/12/19~2022/1/13

7.1 CHANNEL LOADING

Frequency (MHz)	Marker Delta (ms)	Number	On Time (ms)	Total Time (ms)	Duty cycle (%)	Limit (%)
5320	4.52	5	22.60	100	22.60	17.00
5310	3.57	6	21.42	100	21.42	17.00
5290	3.23	7	22.61	100	22.61	17.00
5250	2.53	8	20.24	100	20.24	17.00
5500	3.85	6	23.10	100	23.1	17.00
5510	3.12	7	21.84	100	21.84	17.00
5530	4.22	5	21.10	100	21.1	17.00
5570	2.54	8	20.32	100	20.32	17.00

7.2 RADAR WAVEFORM DETECTION THRESHOLD

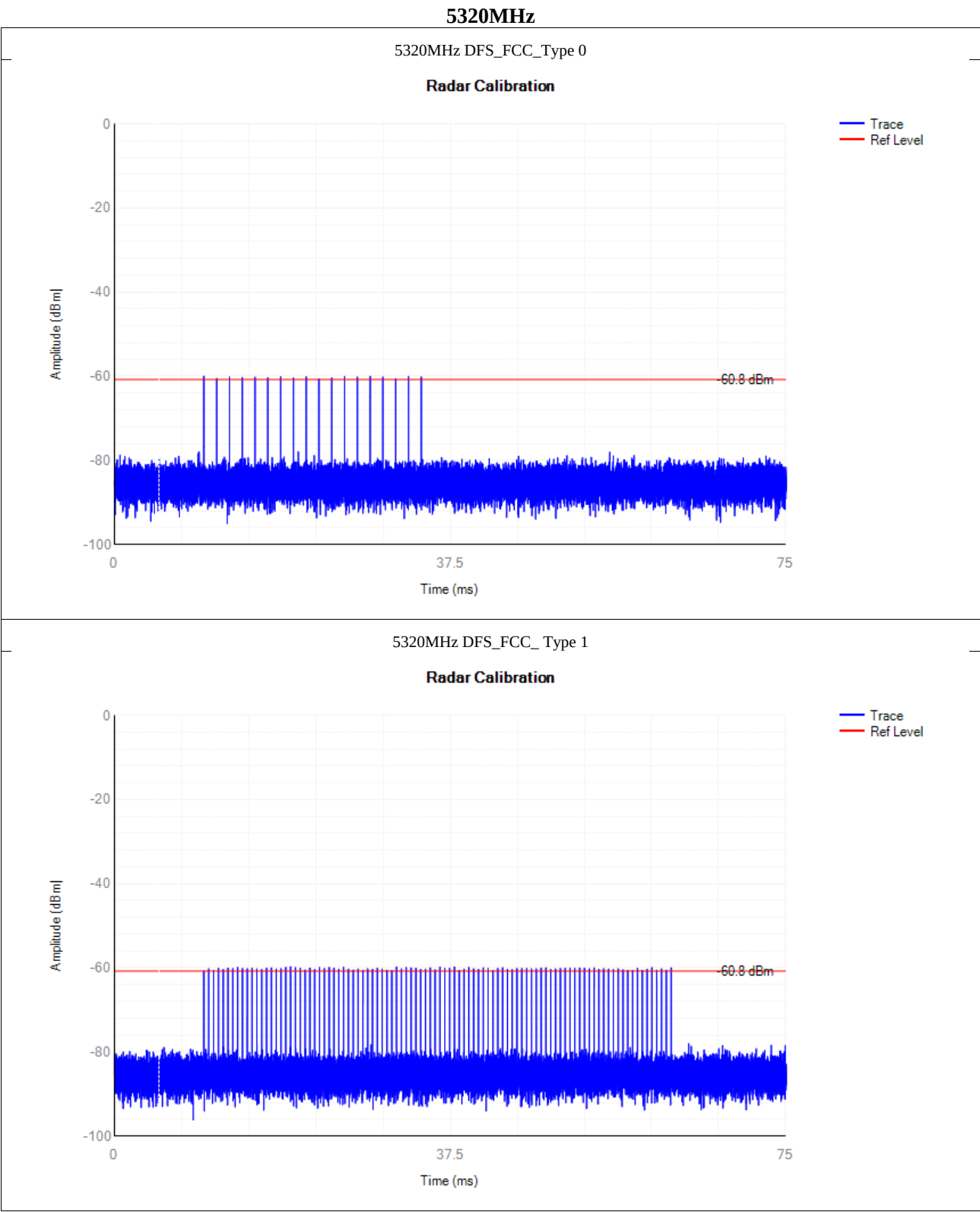
Radar Waveform Type 0

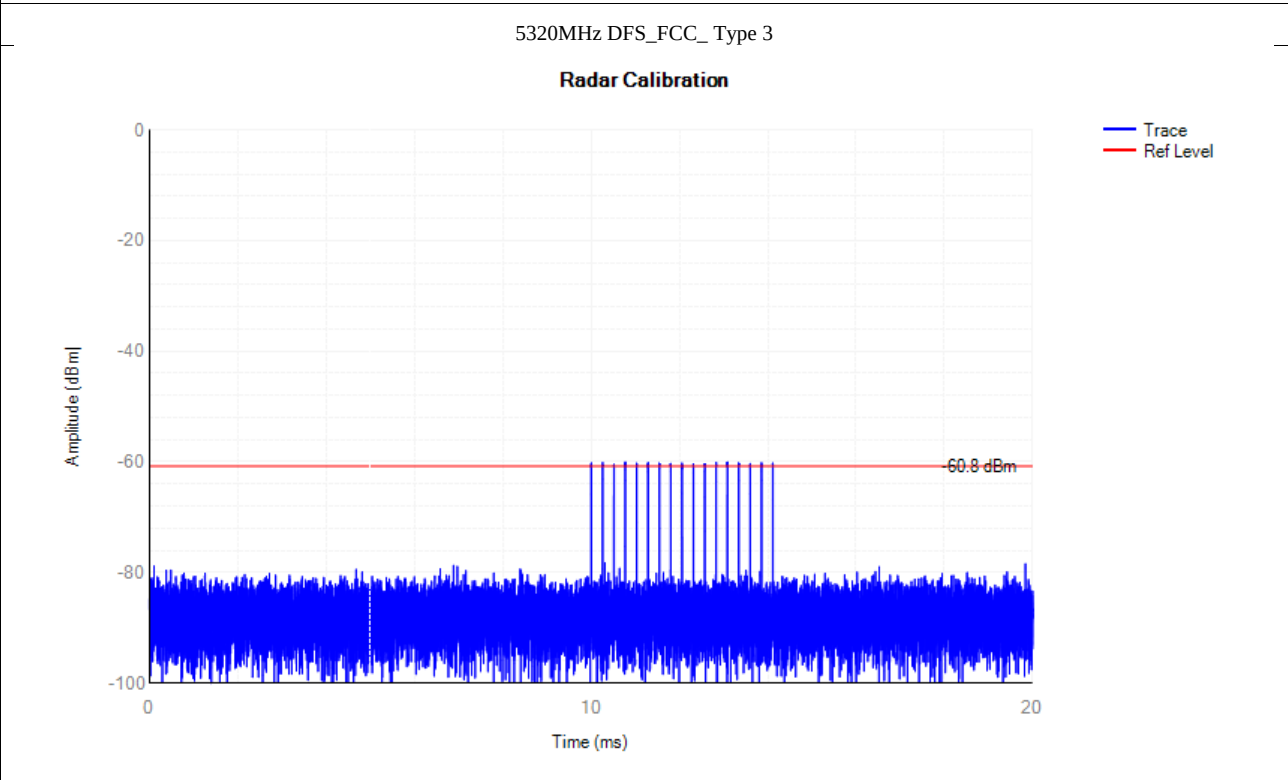
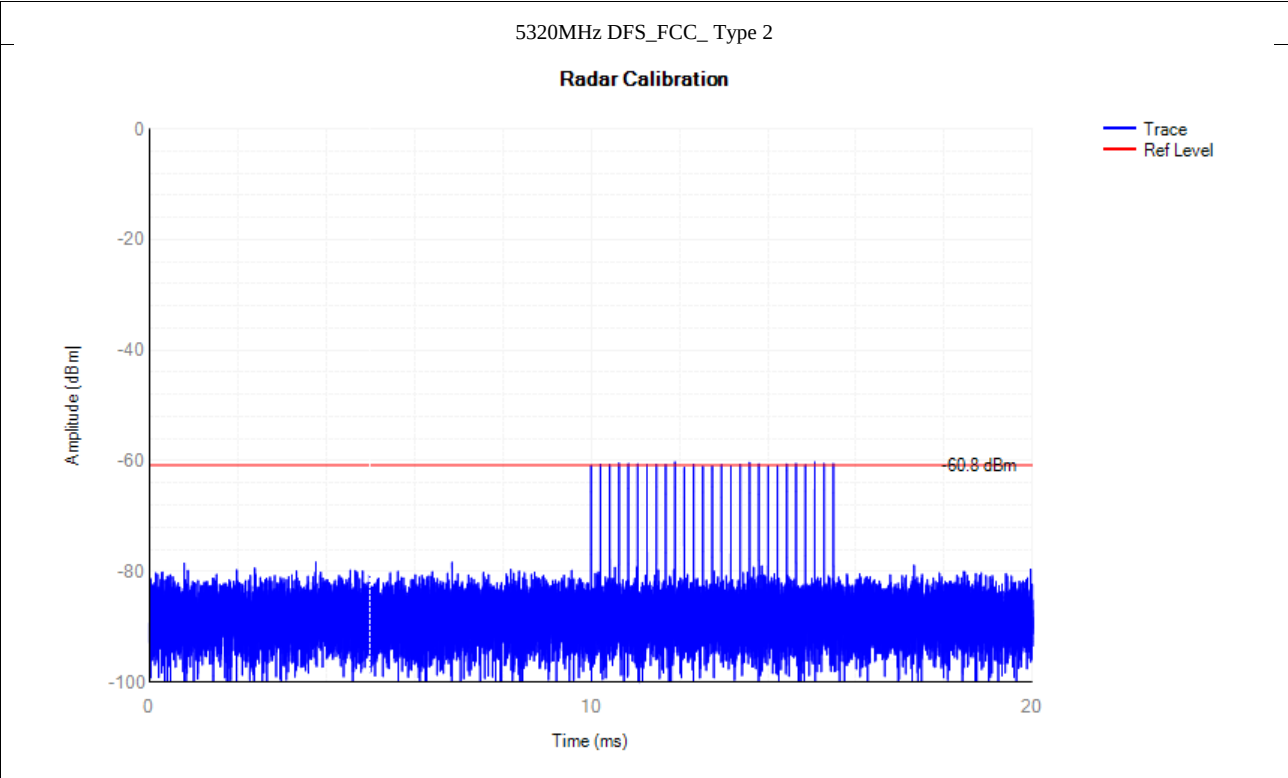
Description	Value	Unit
Configured DUT EIRP:	49.565	mW
Configured DUT PSD:	4.82	dBm/MHz
Requirement of the Detection threshold value for this given values acc. to FCC clause 5.2 / Table 3	-62	dBm
This results in the following radar signal level at the DUT	-58.74	dBm

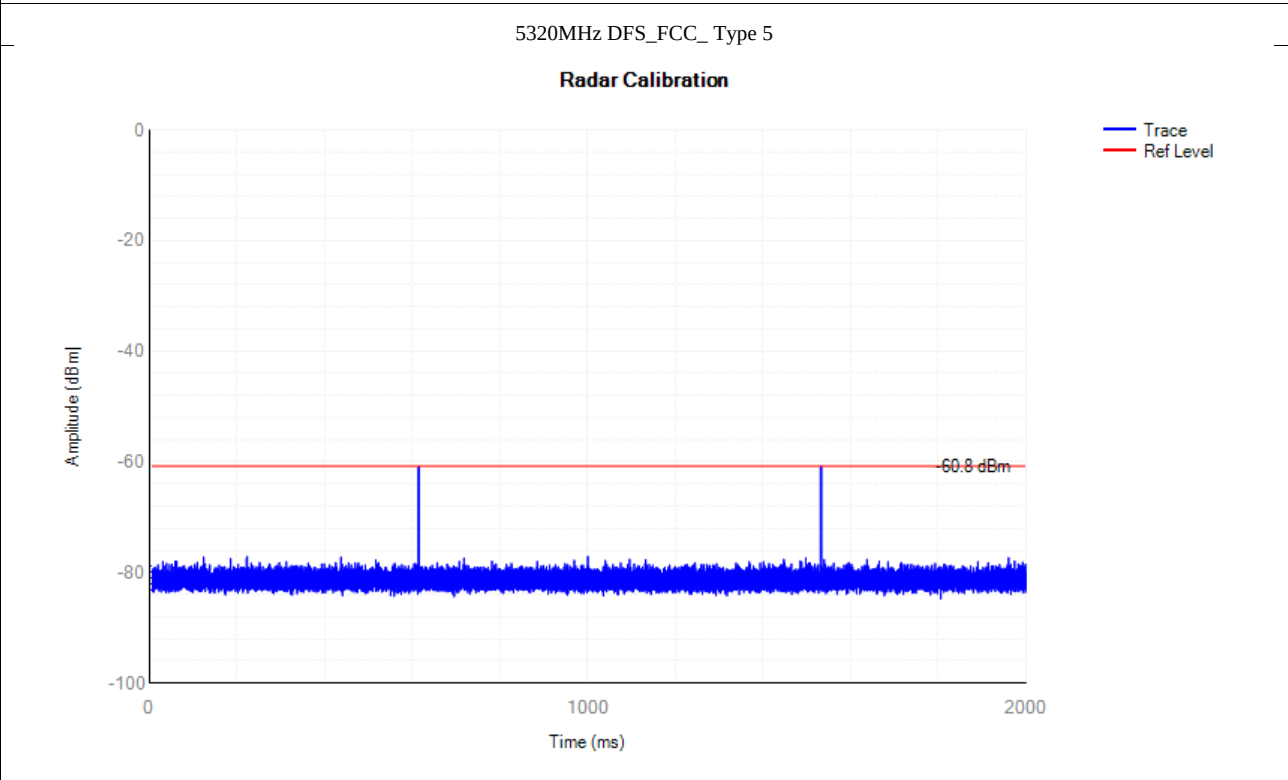
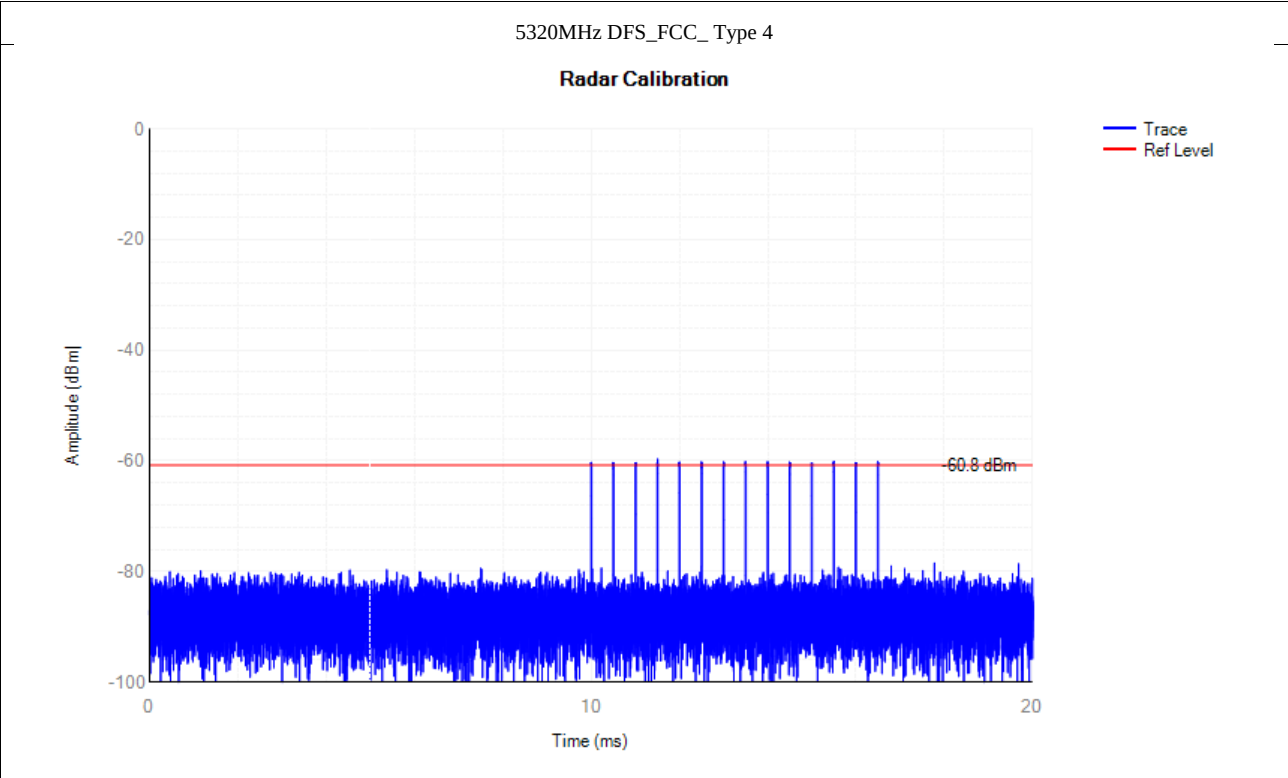
Note :

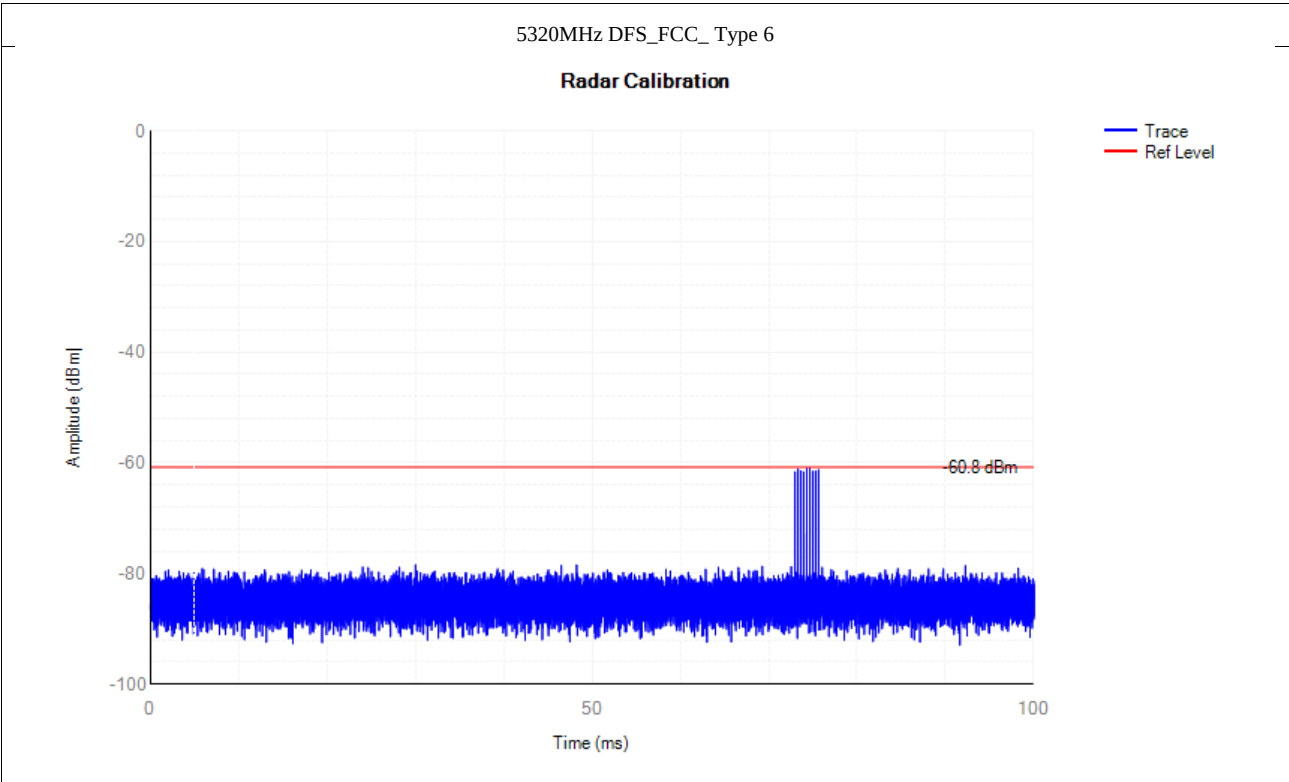
- (1) For a detection threshold level of -62dBm and the Master antenna gain is 3.26dBi, required detection threshold is -58.8dBm($= -62 + 3.2$).
- (2) Maximum Transmit Power is less than 200 milliwatt in this report, So detection threshold level is -62dBm.

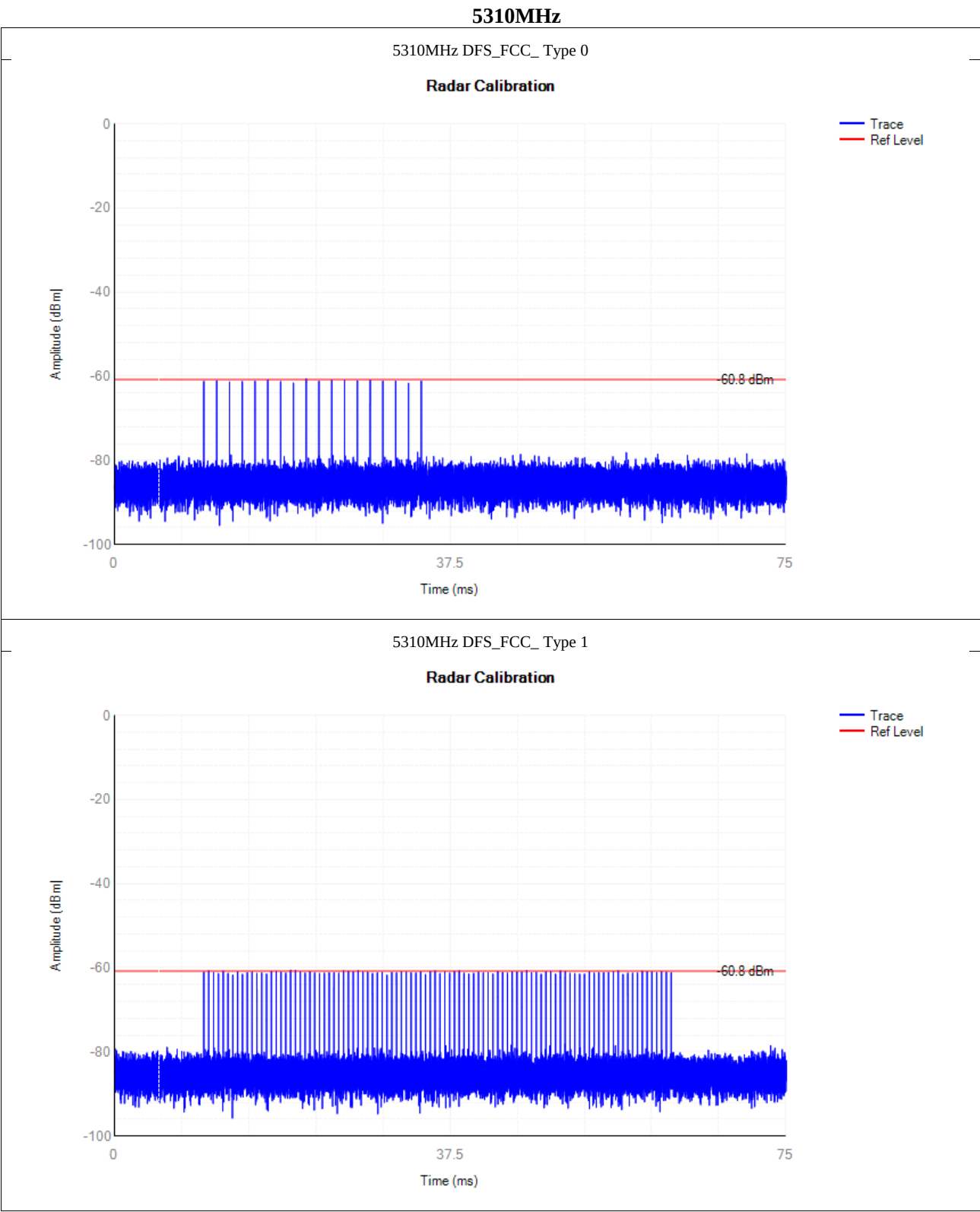
----- The following blanks -----

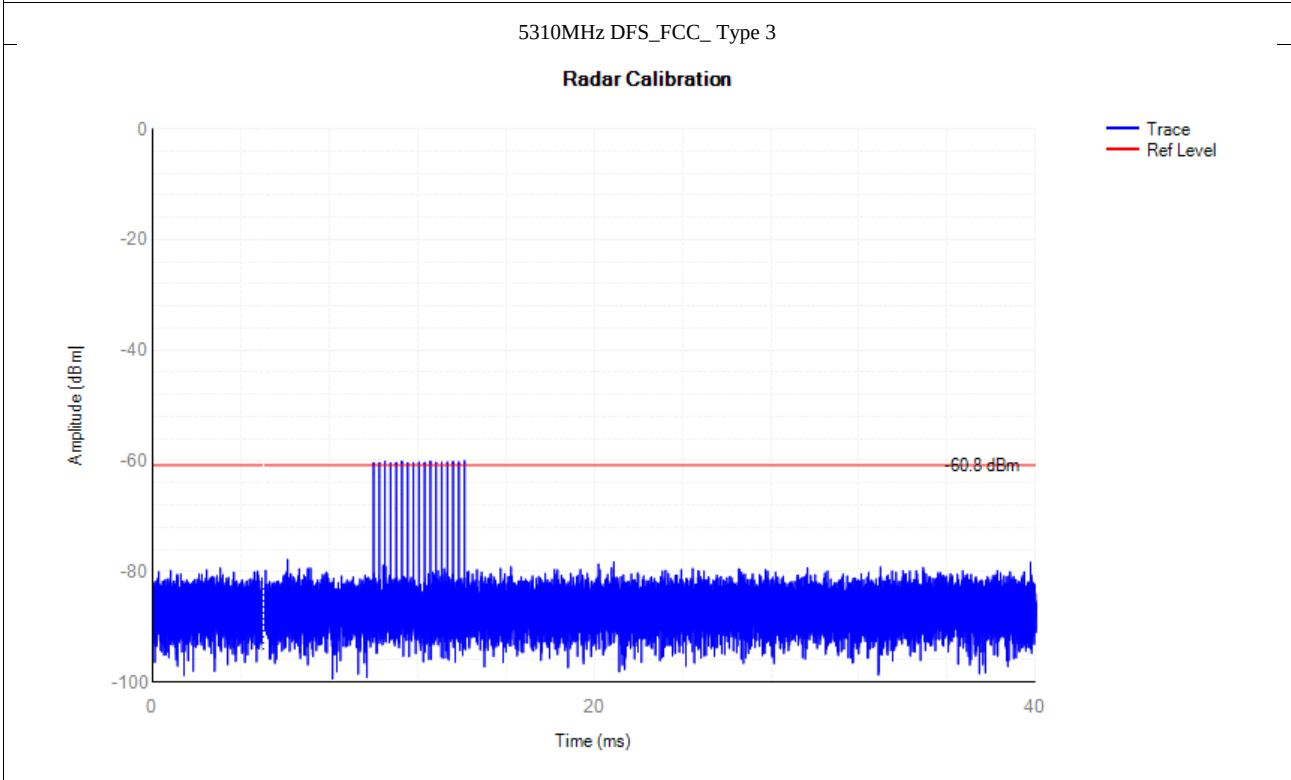
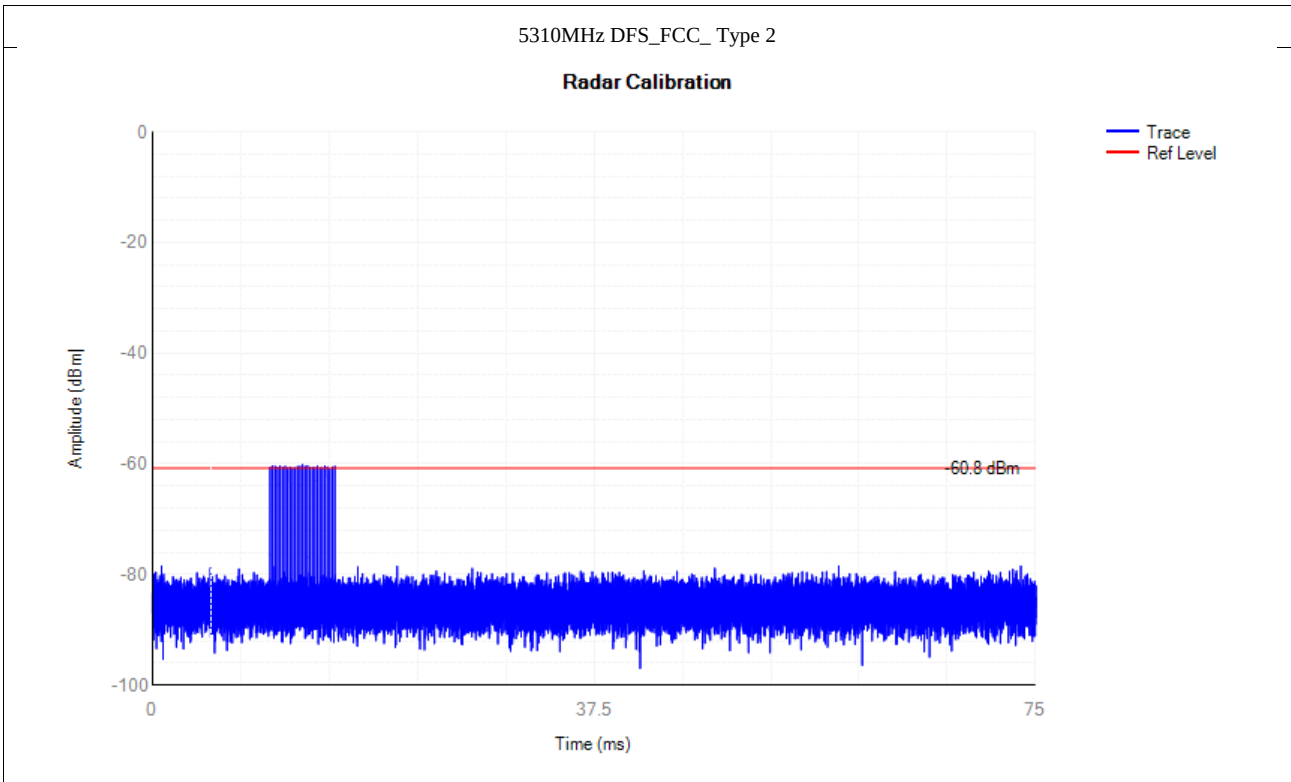


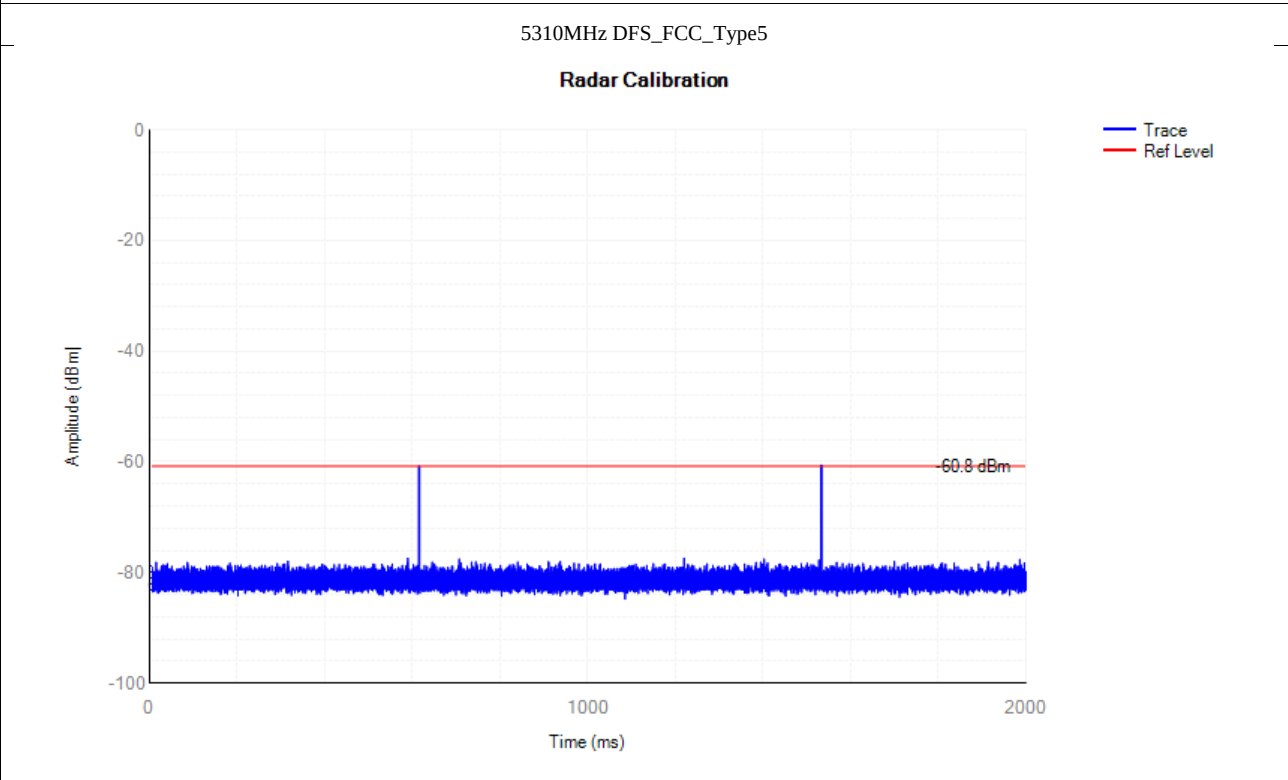
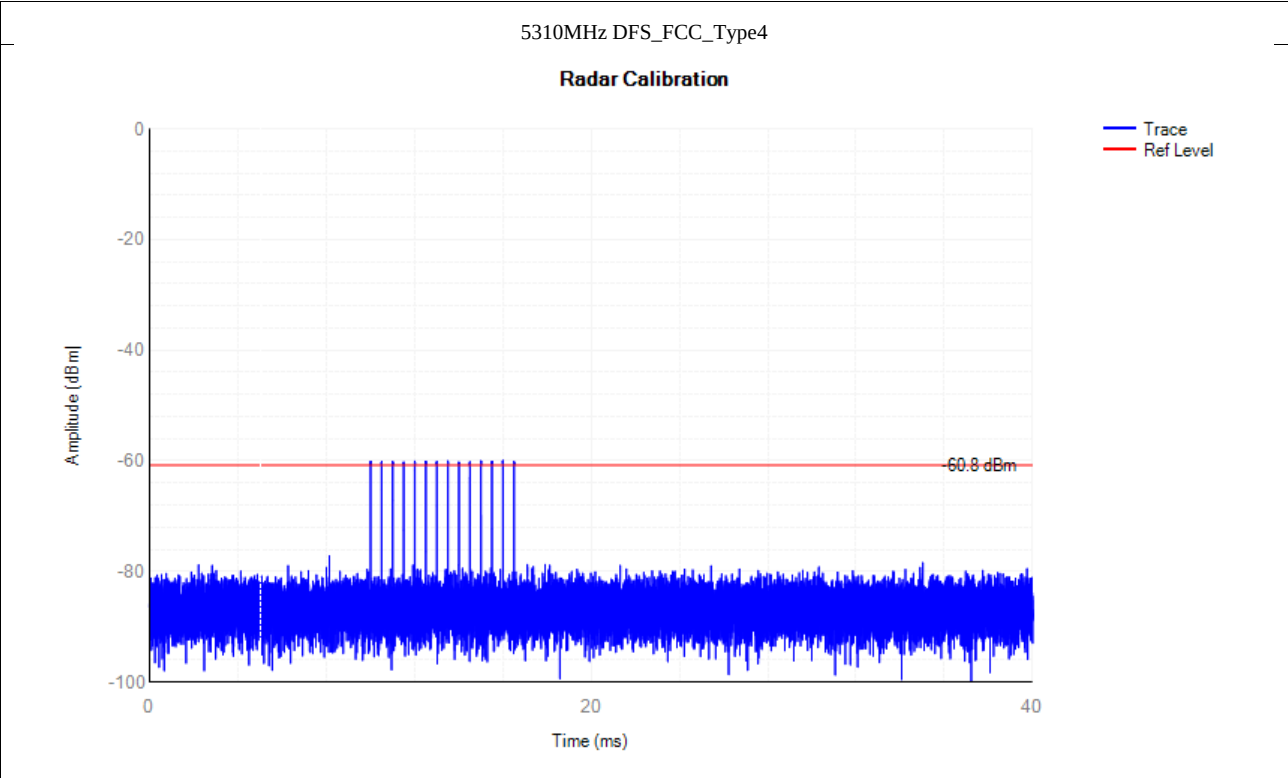


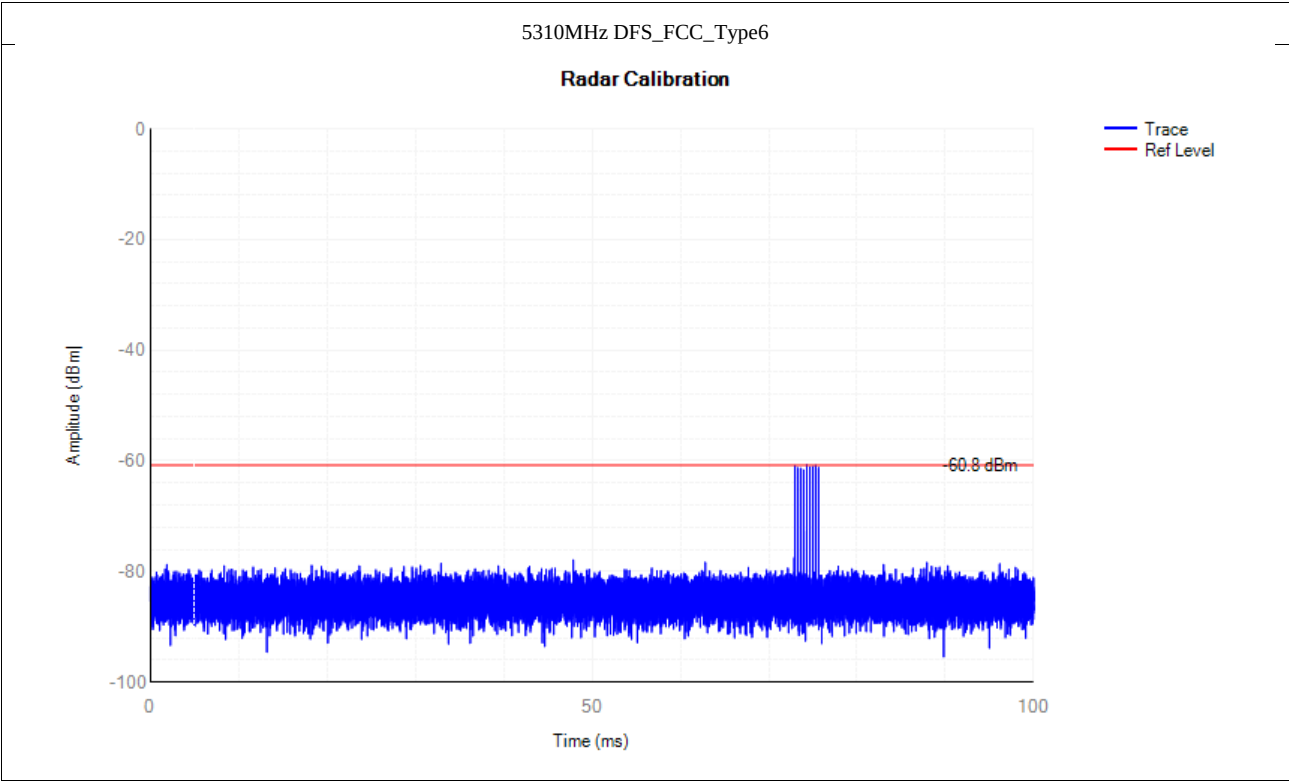








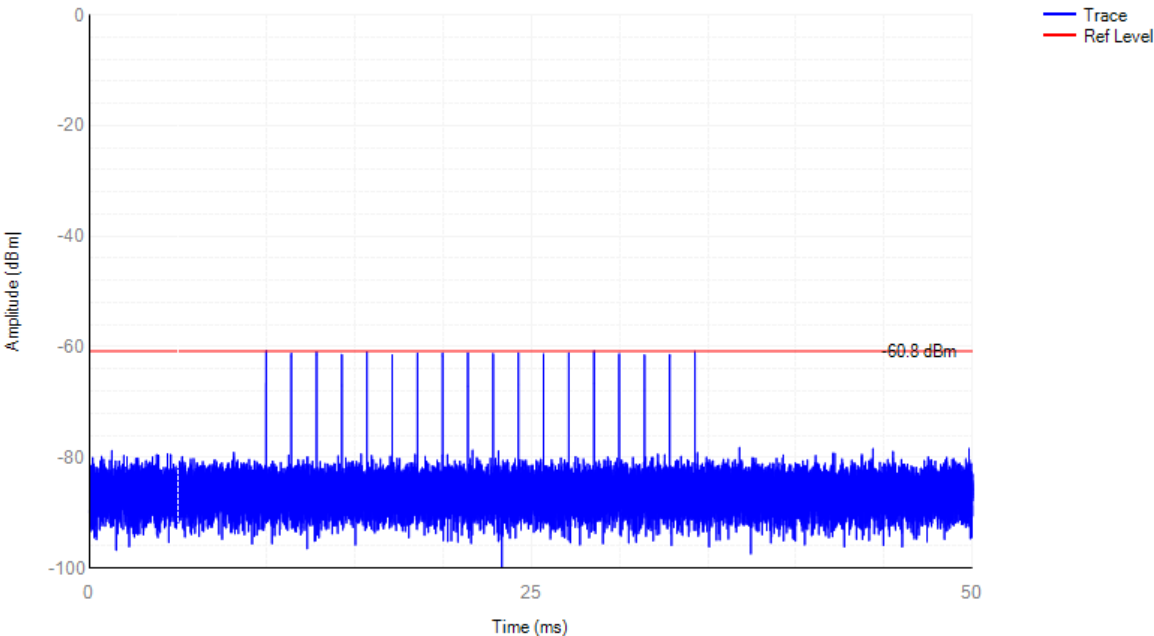




5290MHz

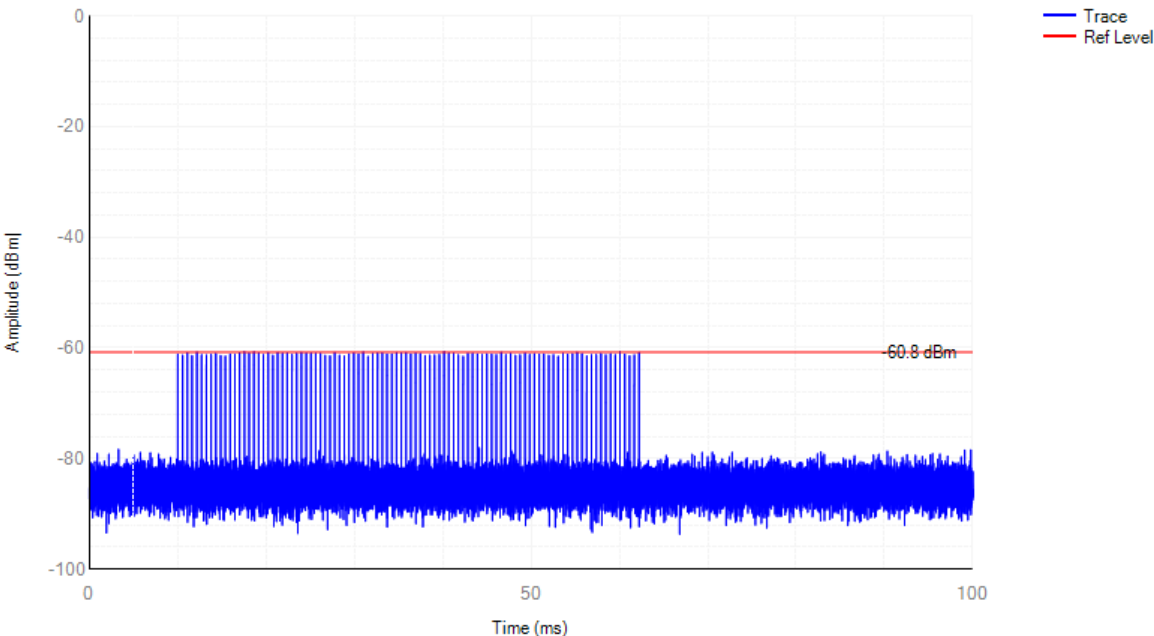
5290MHz DFS_FCC_Type 0

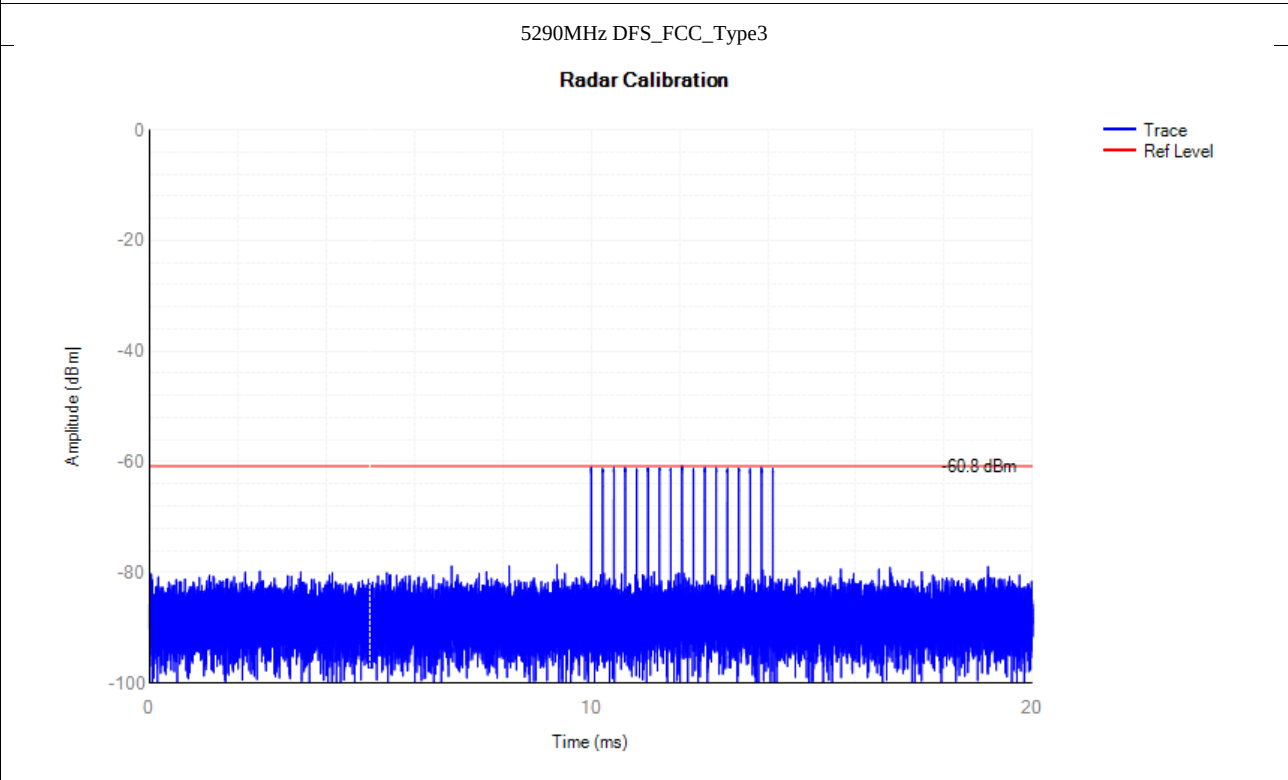
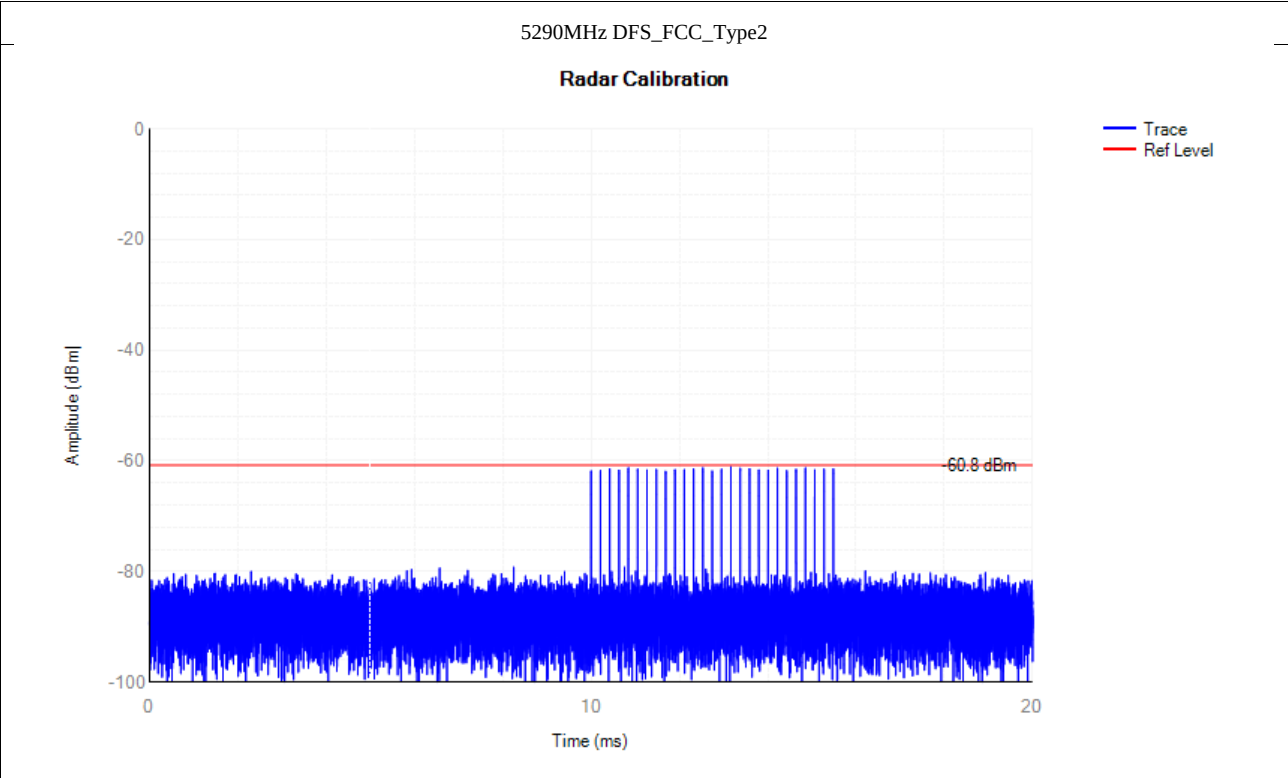
Radar Calibration

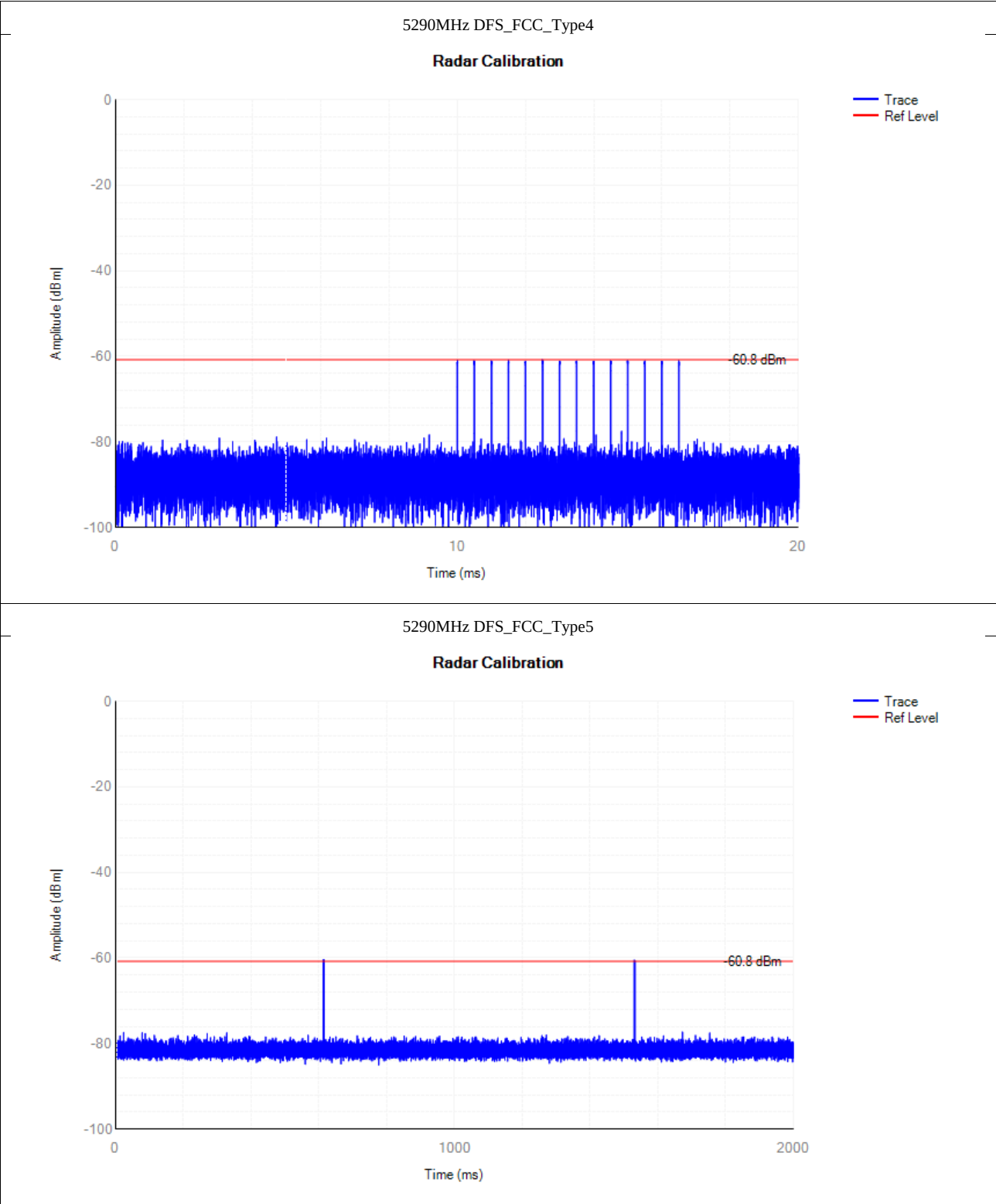


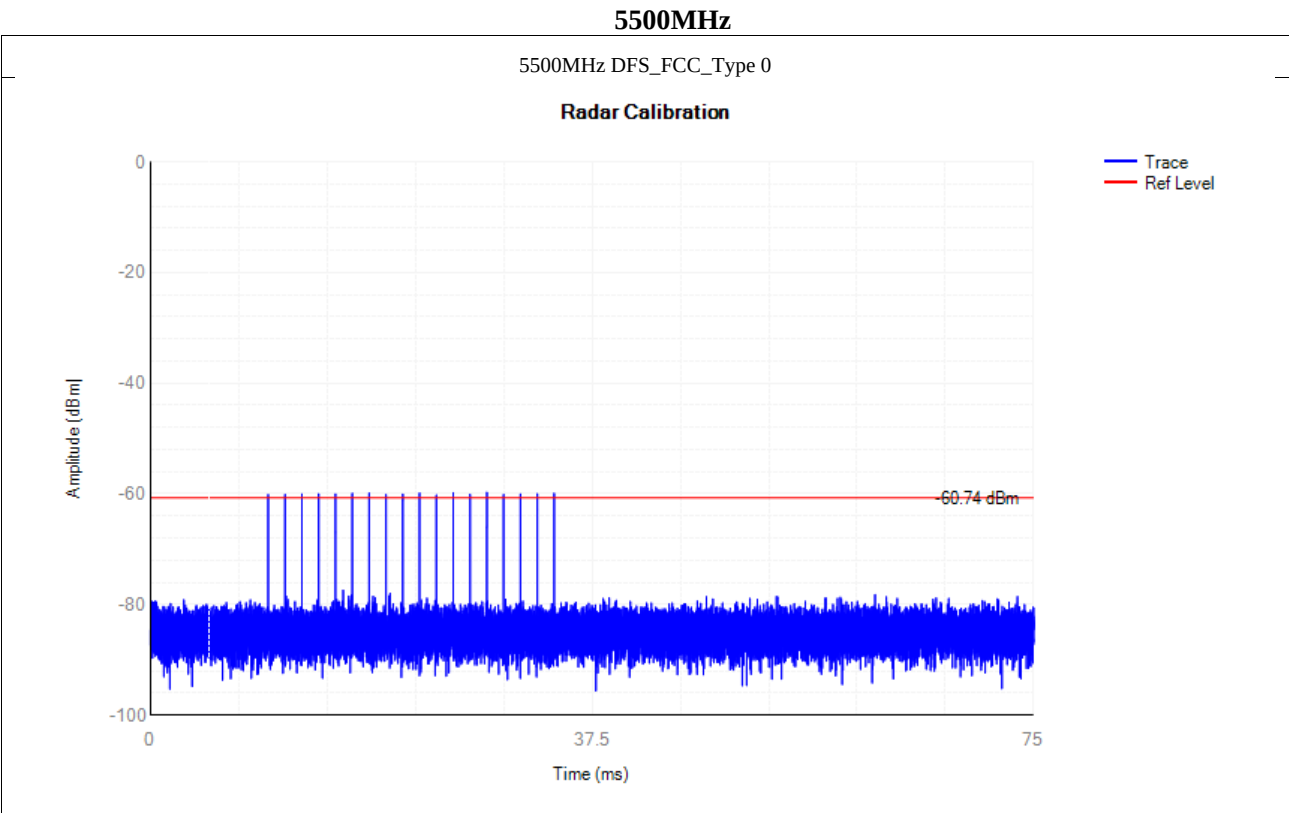
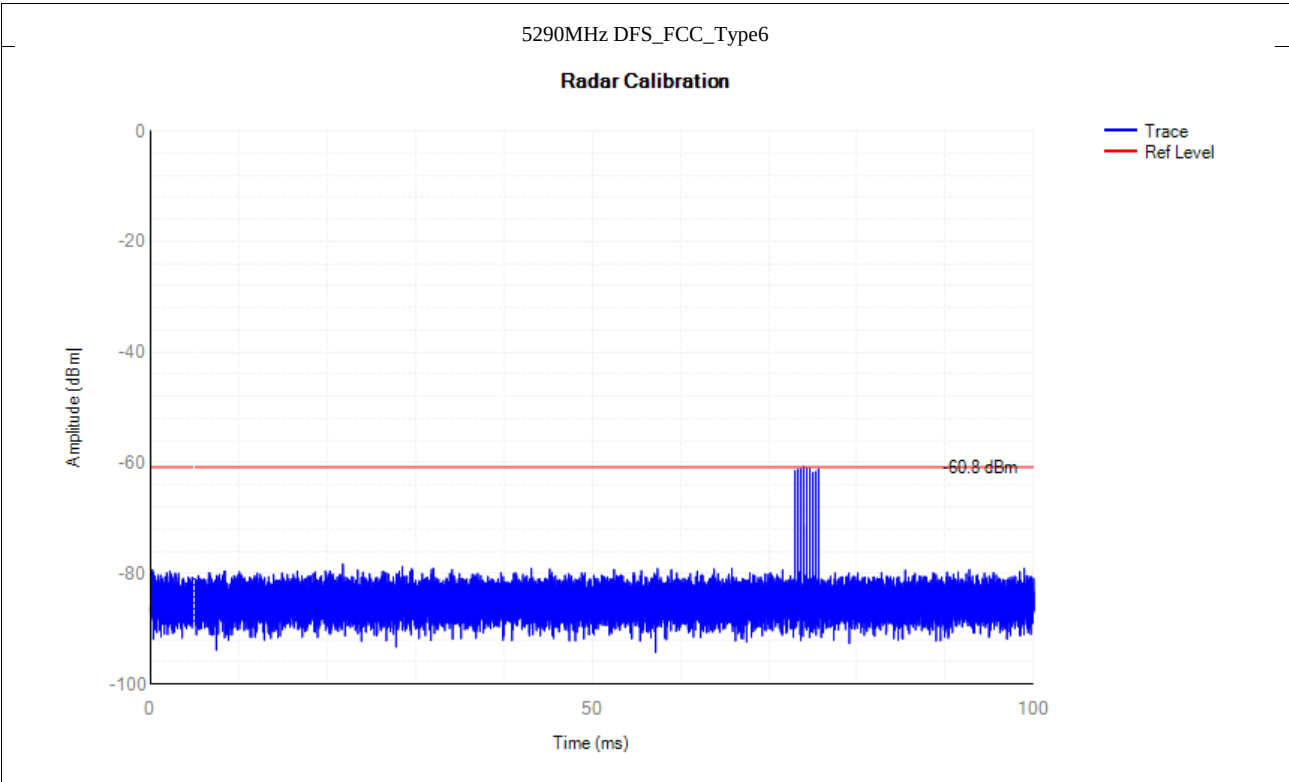
5290MHz DFS_FCC_Type1

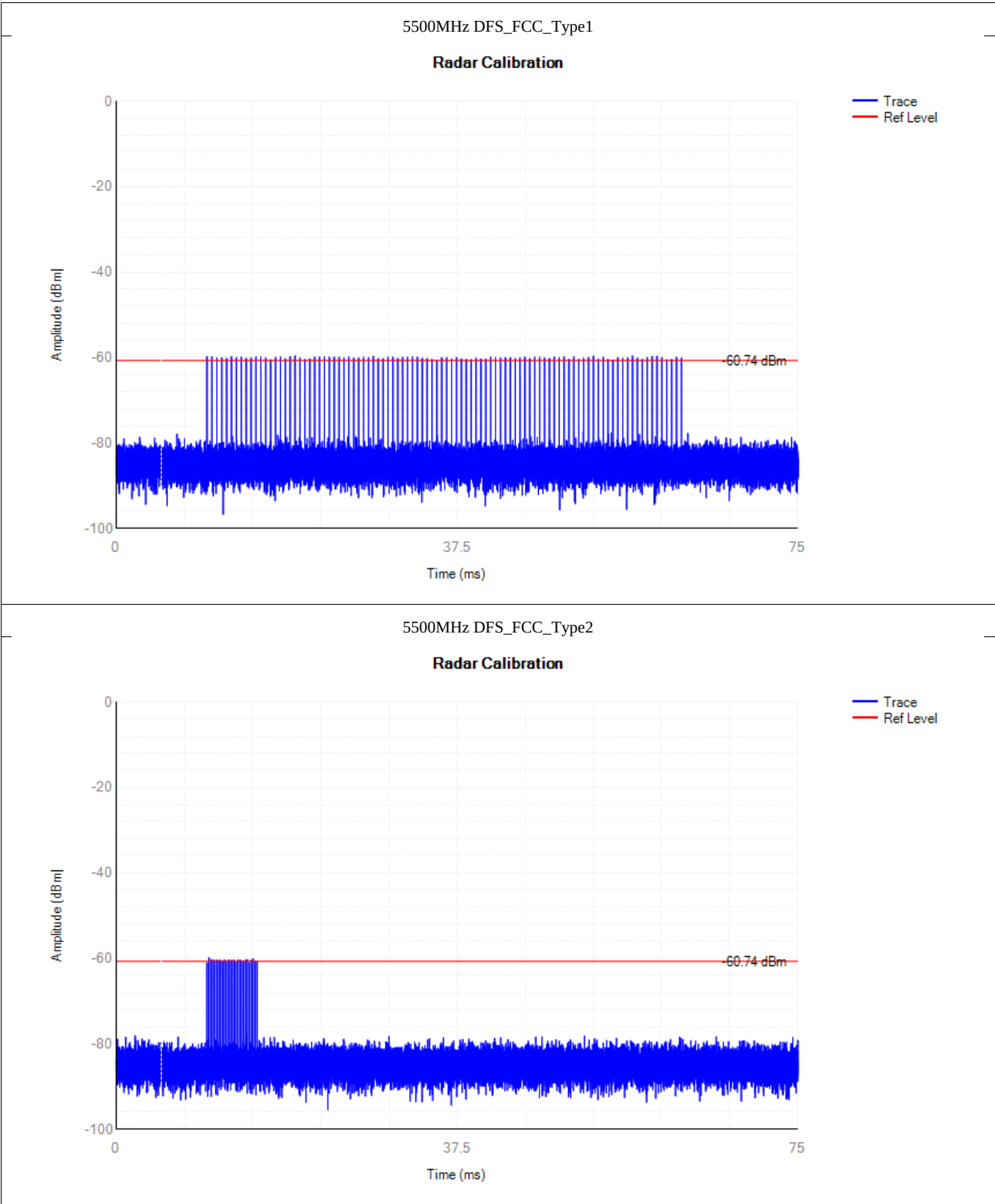
Radar Calibration

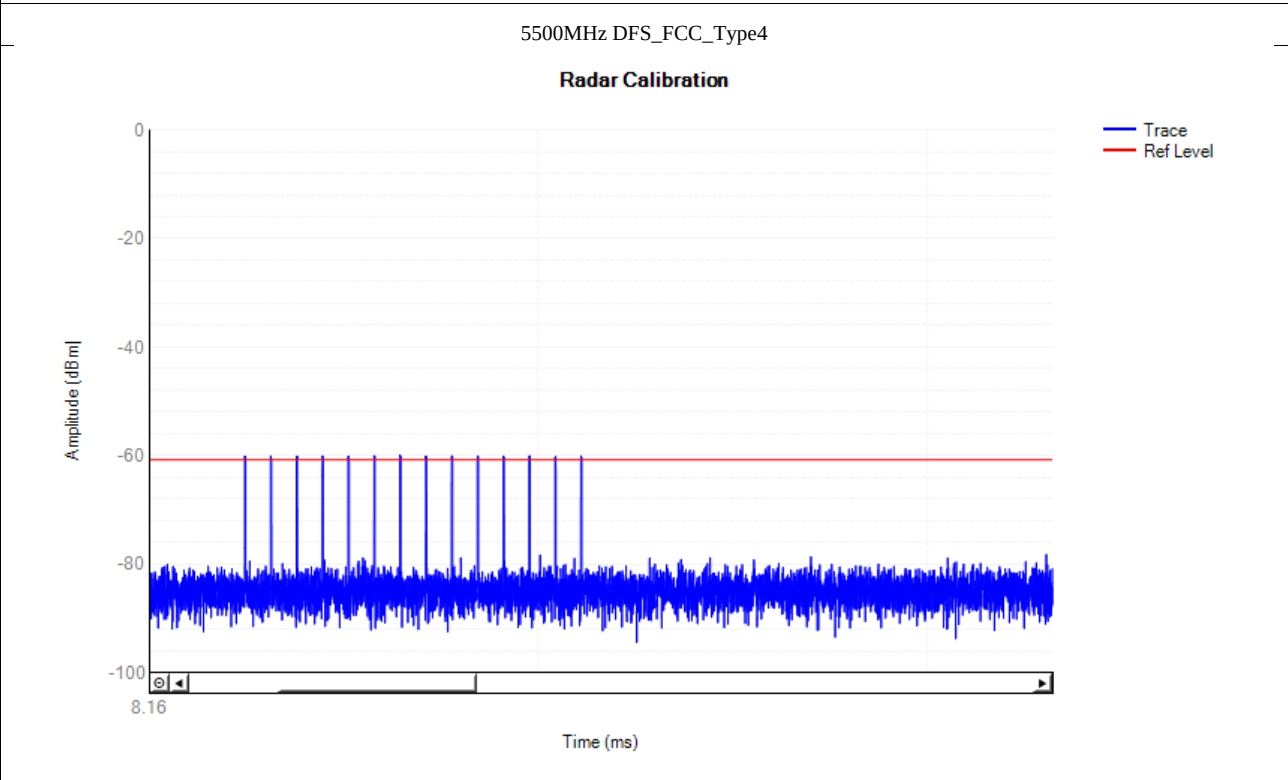
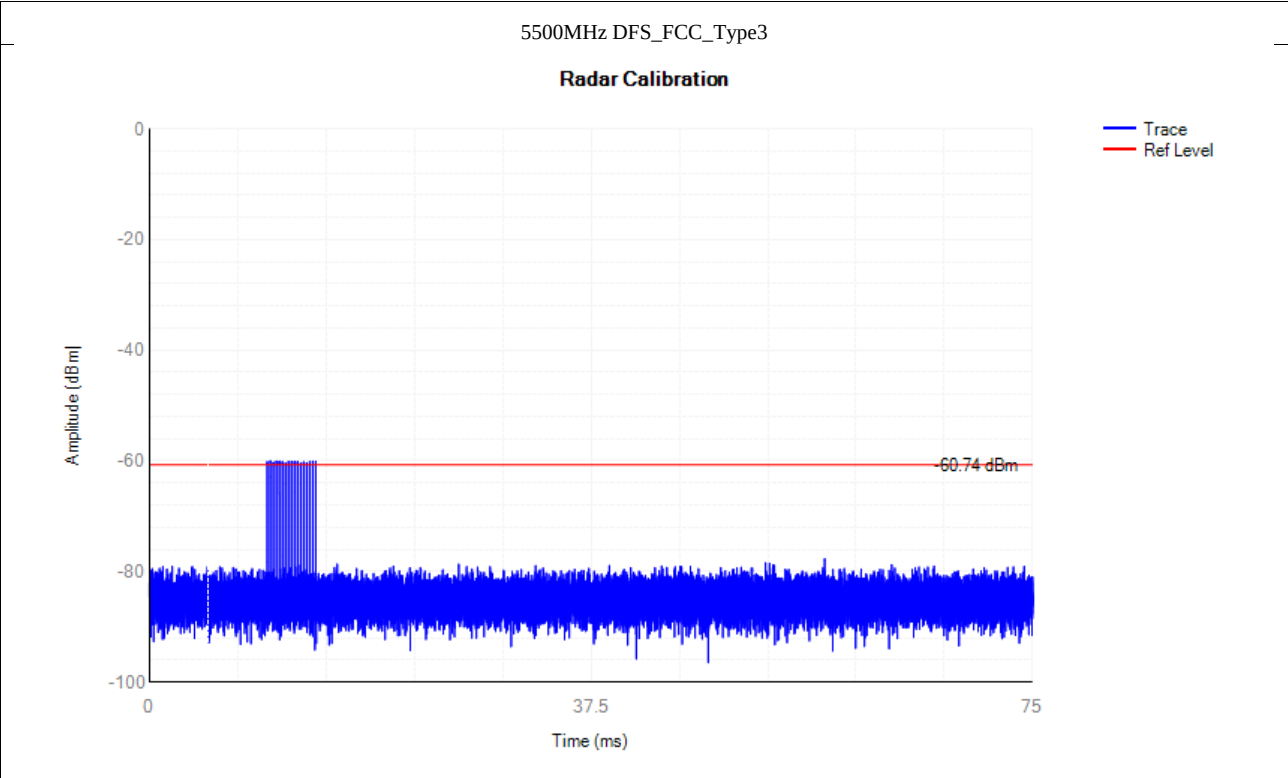


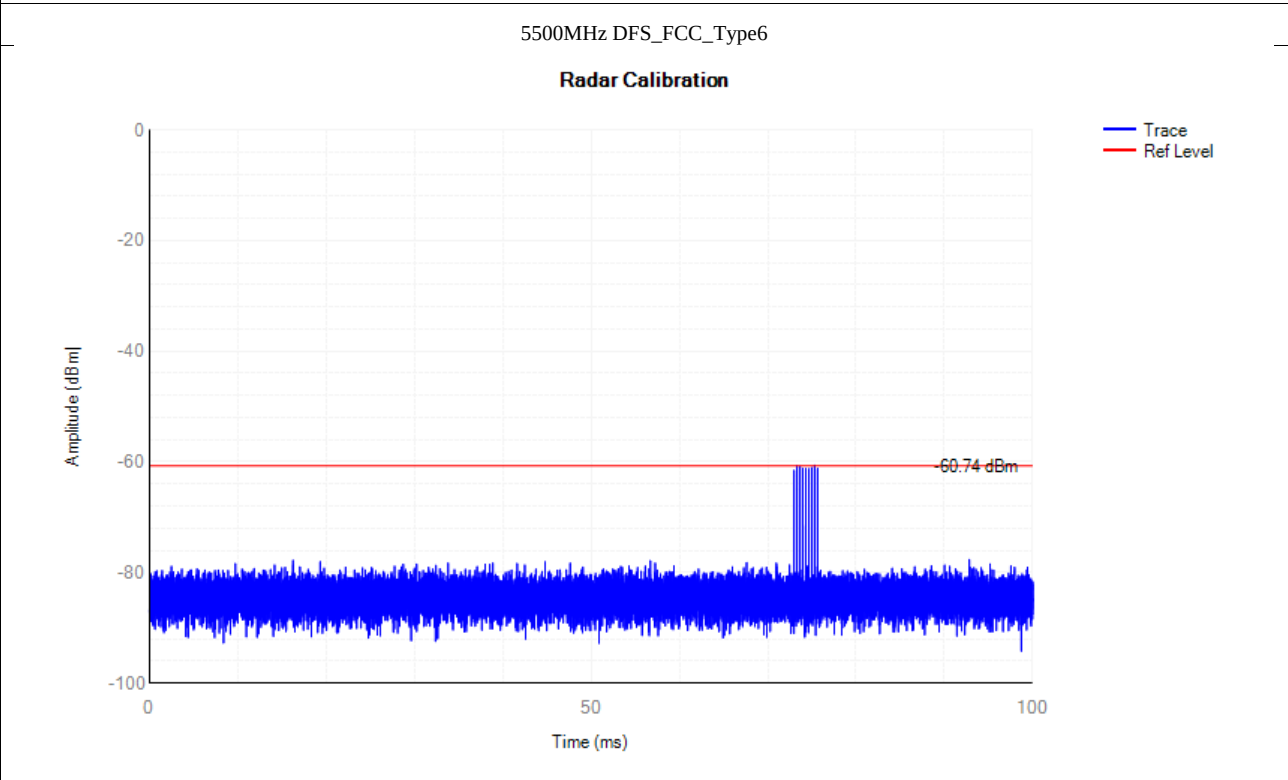
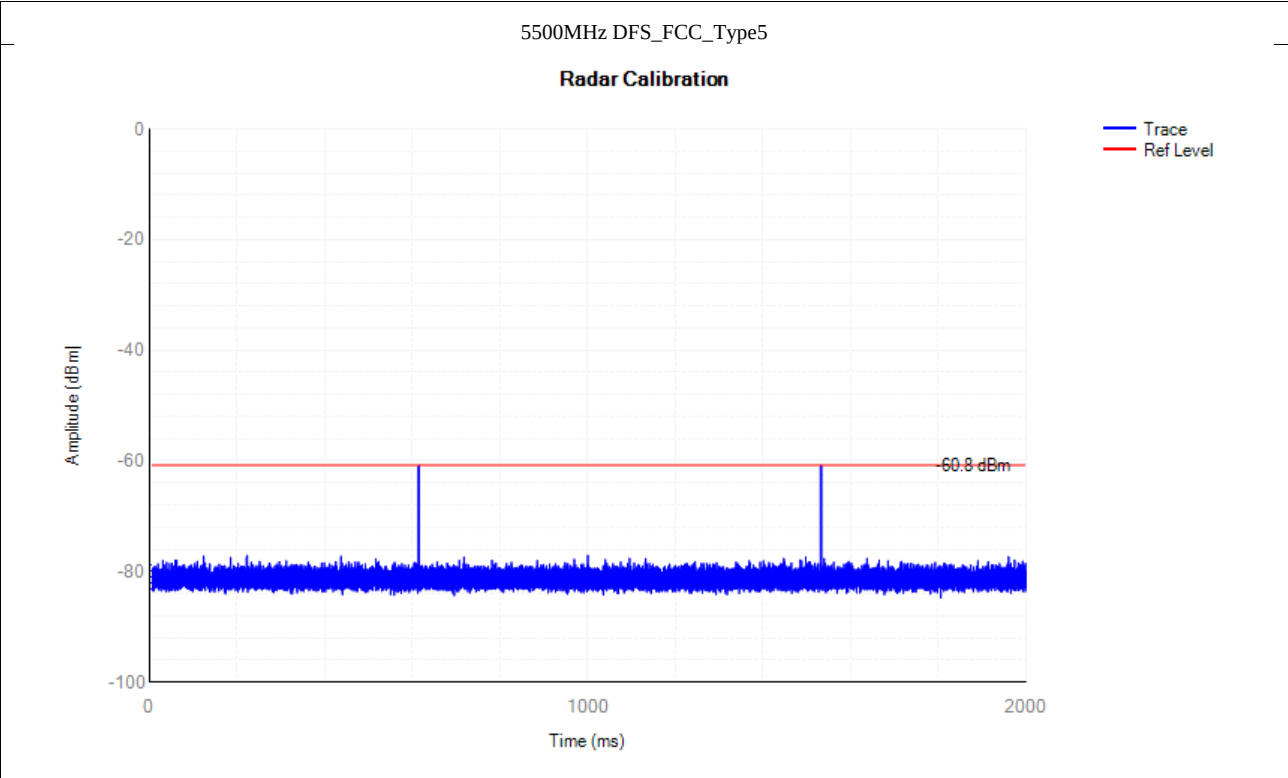




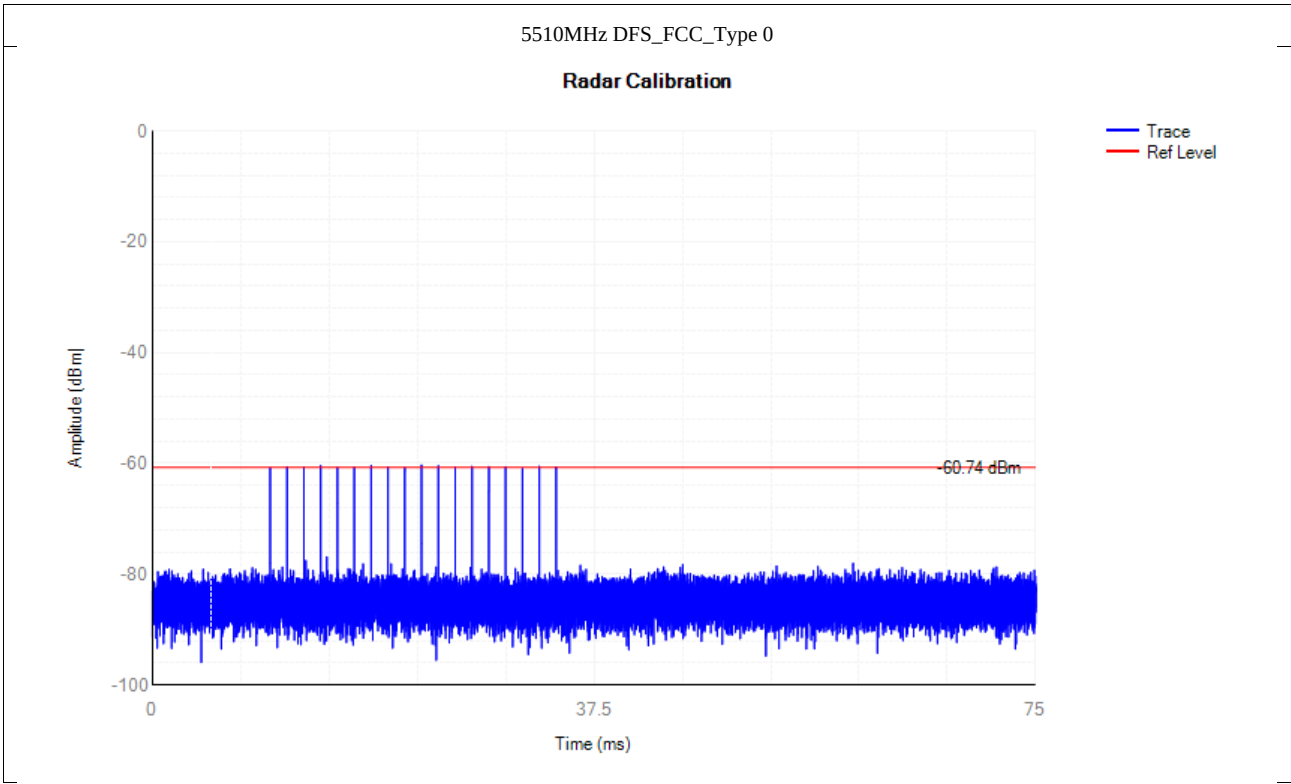


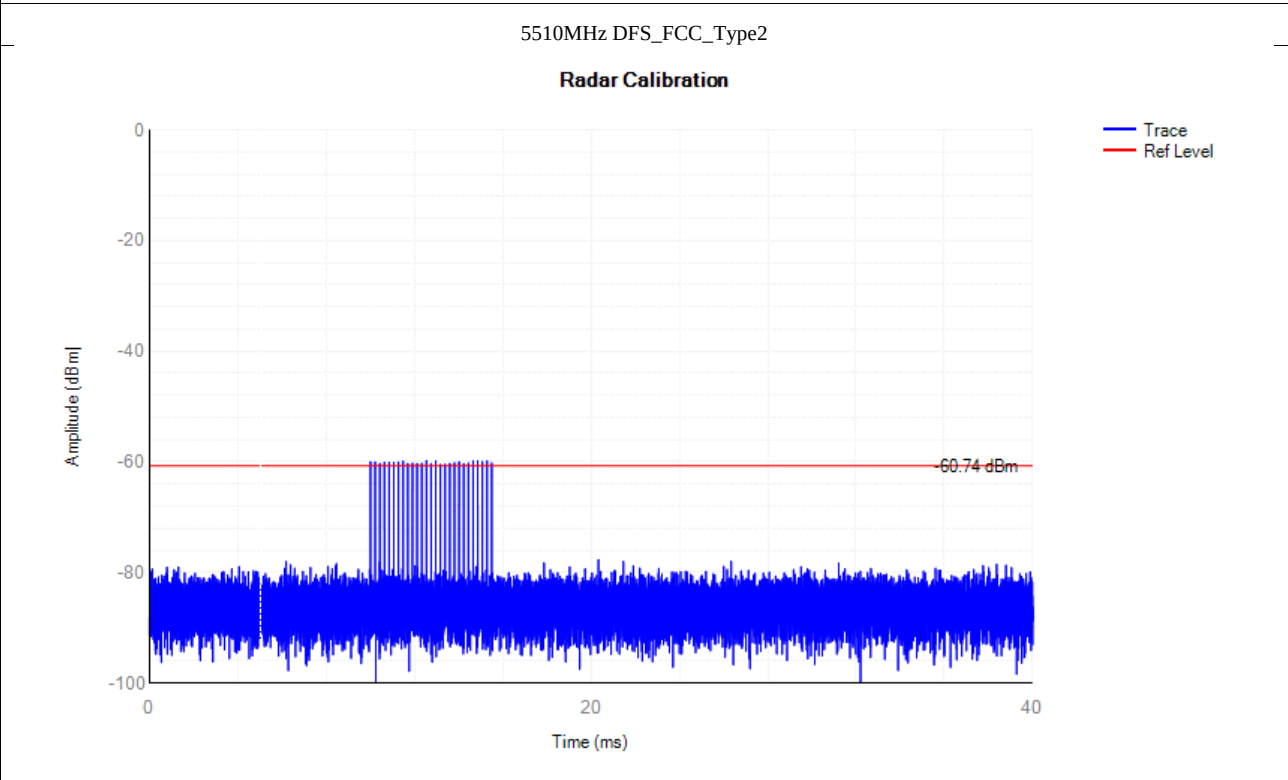
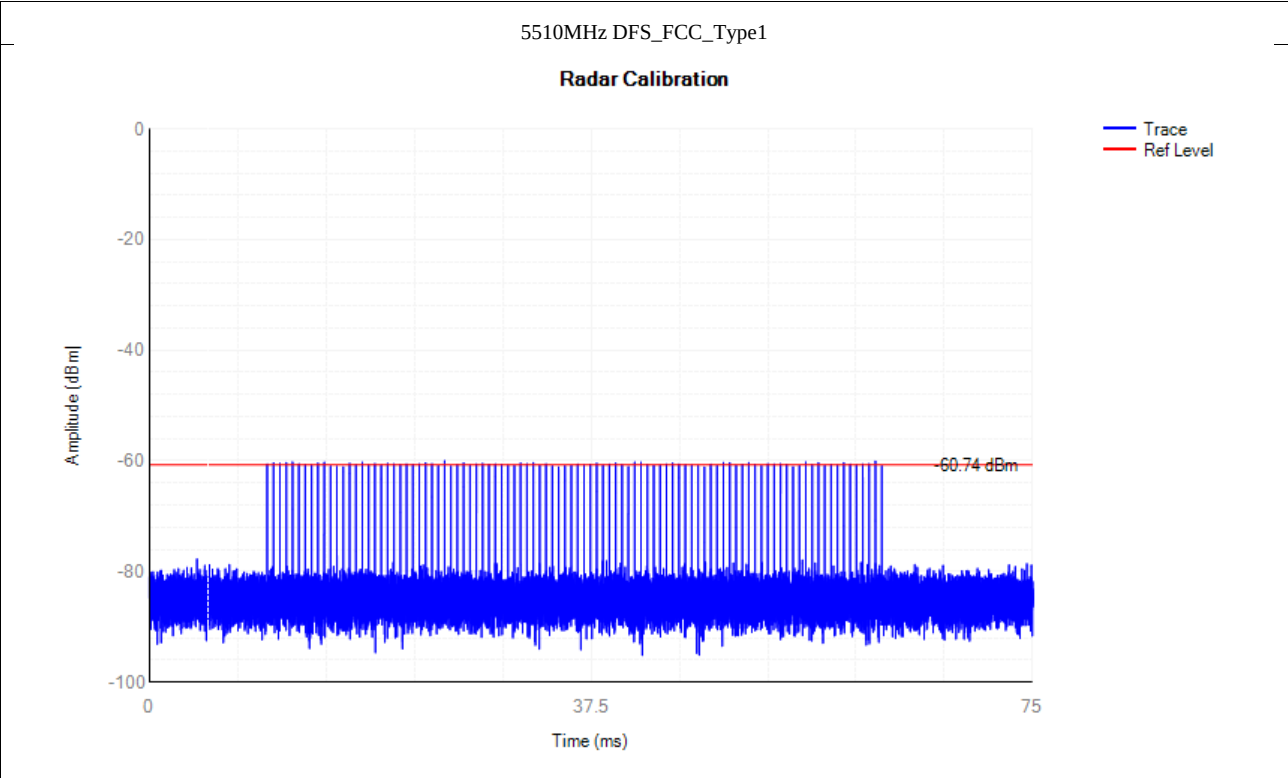


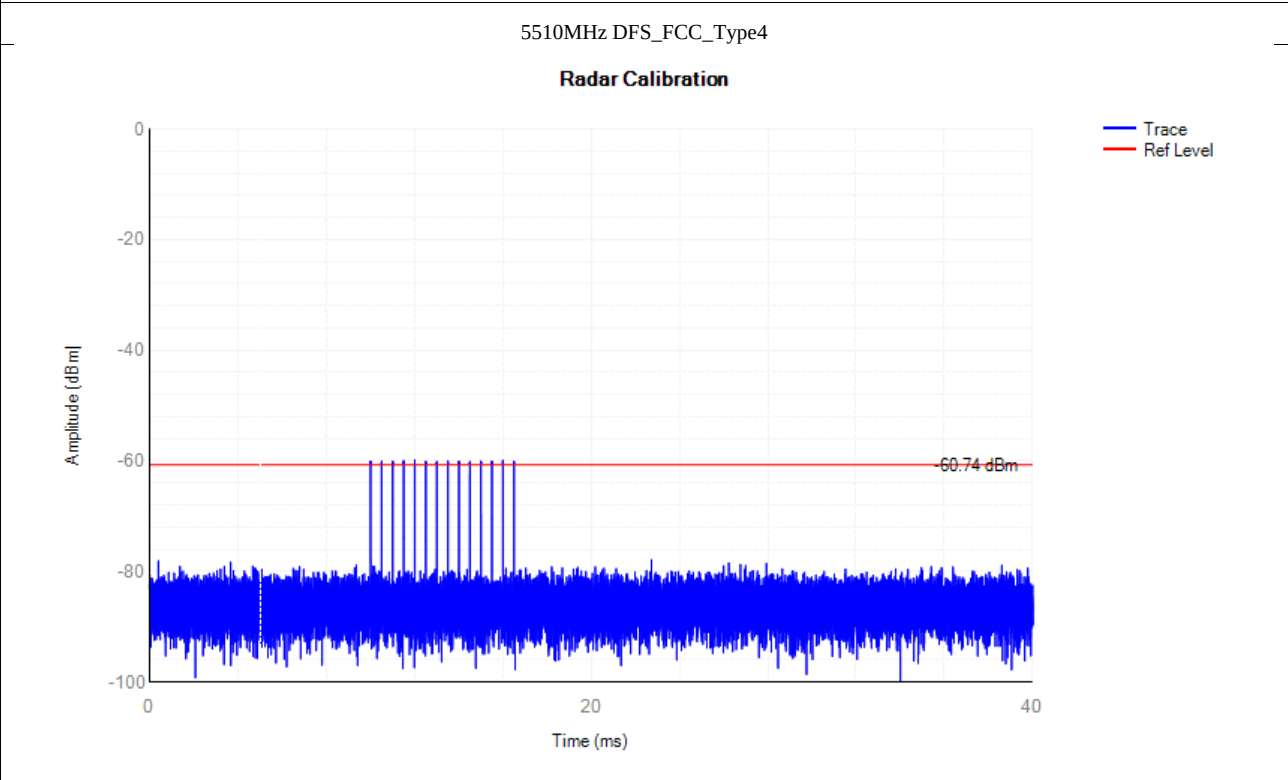
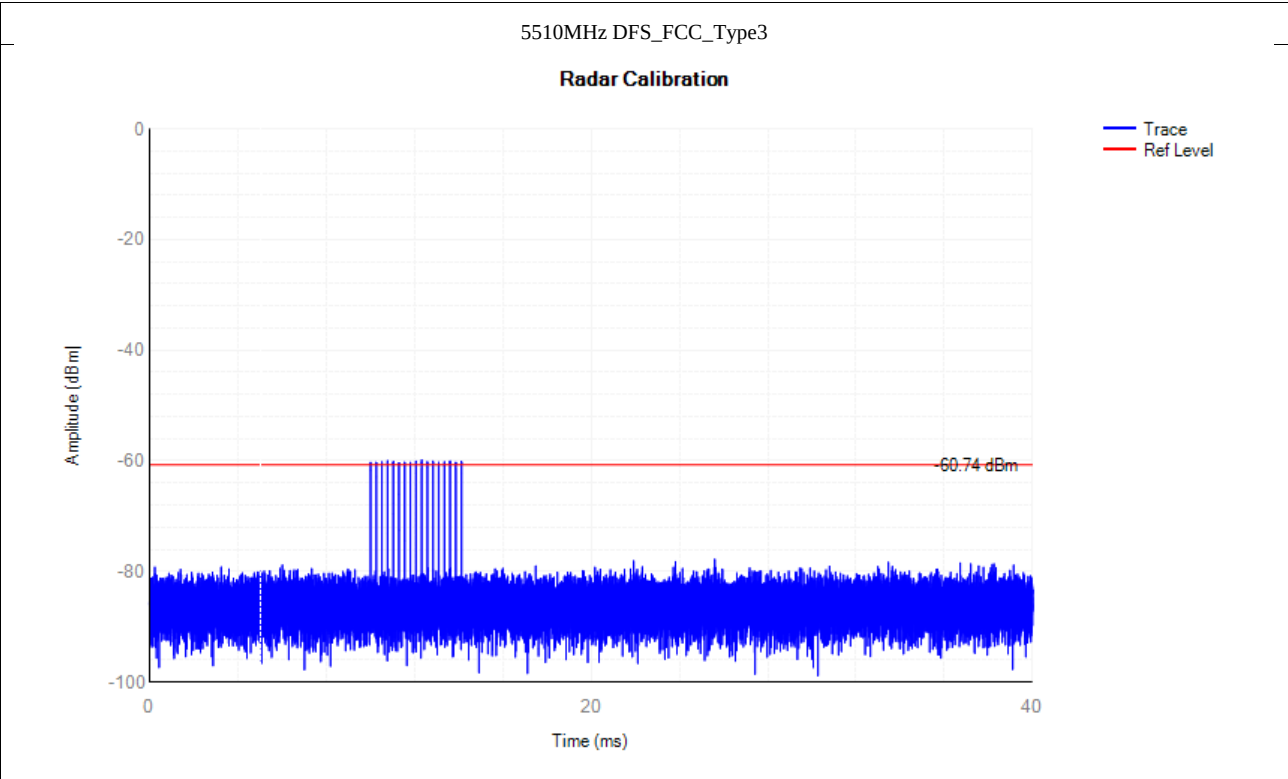


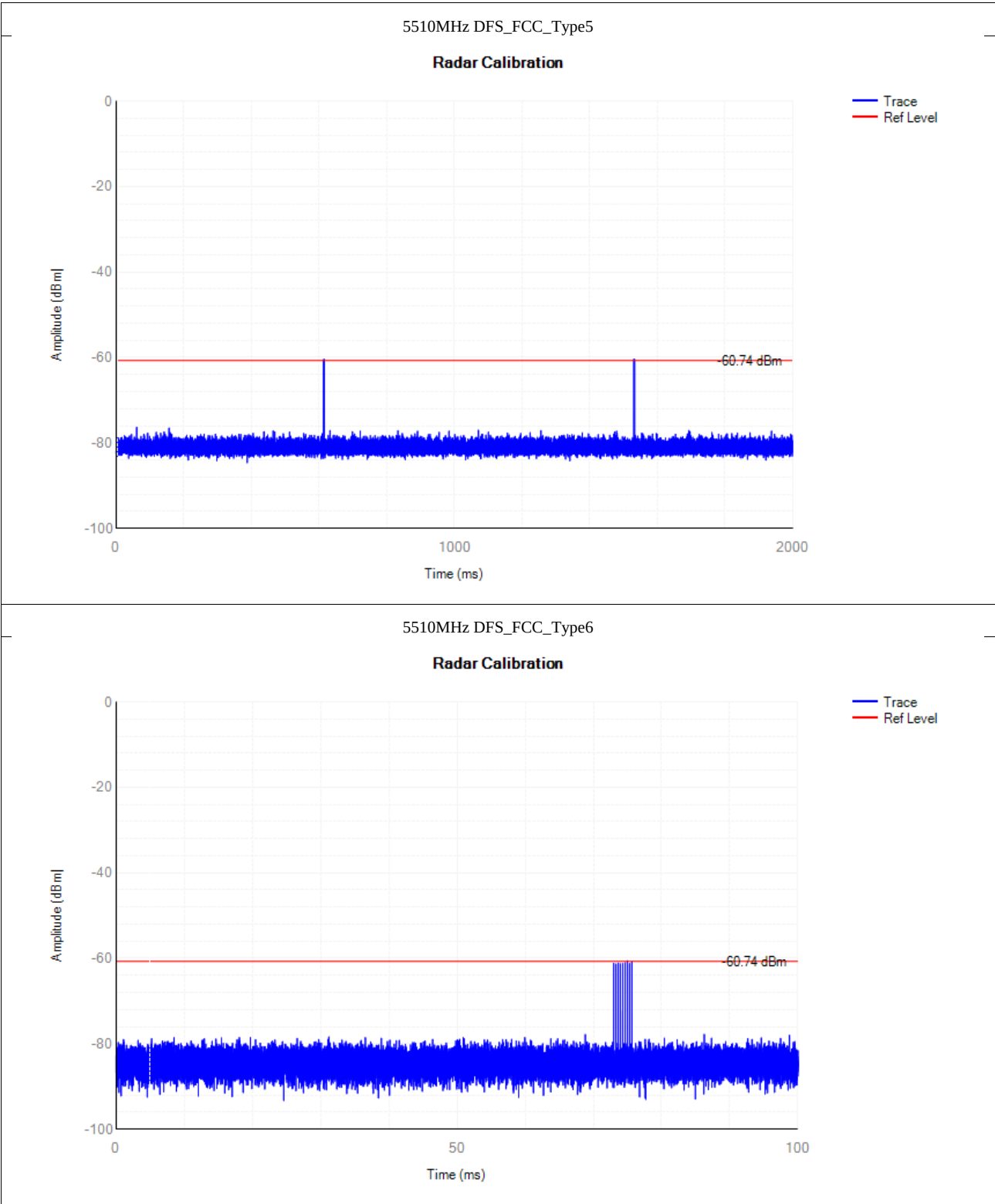


5510MHz

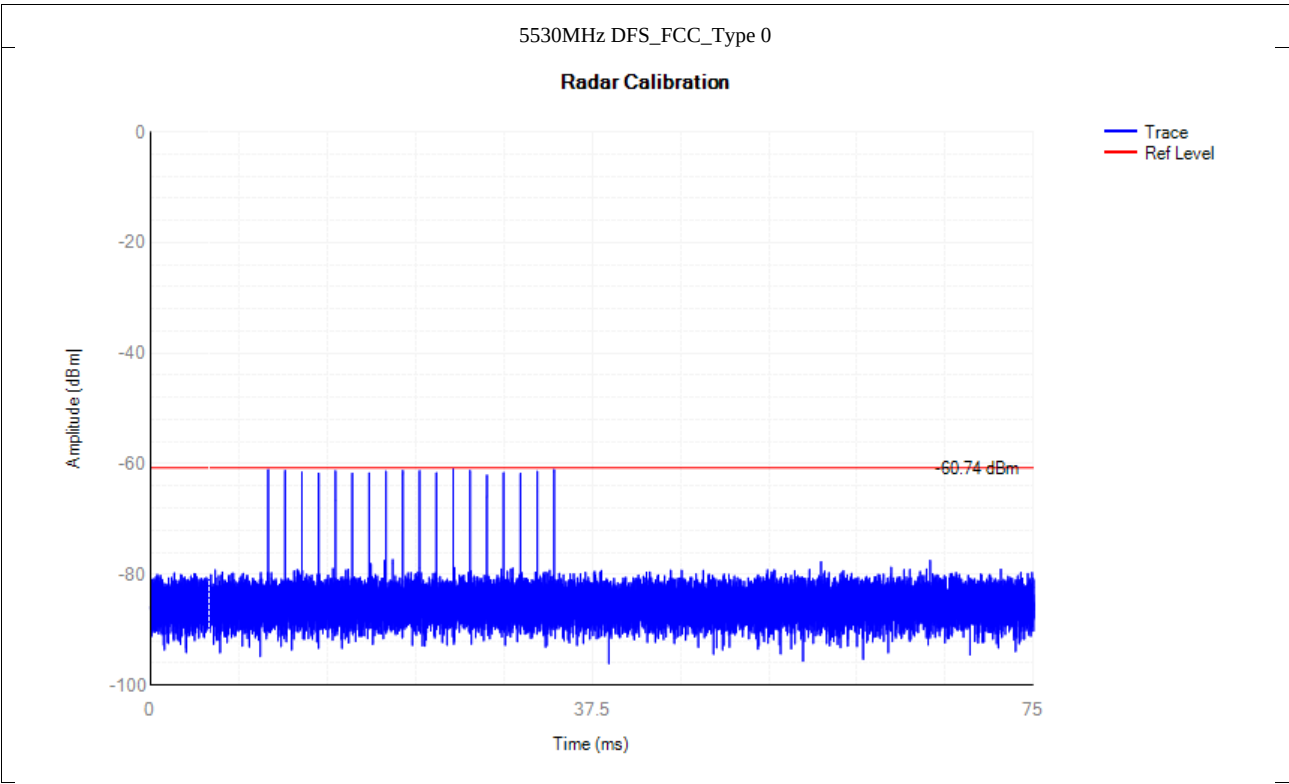


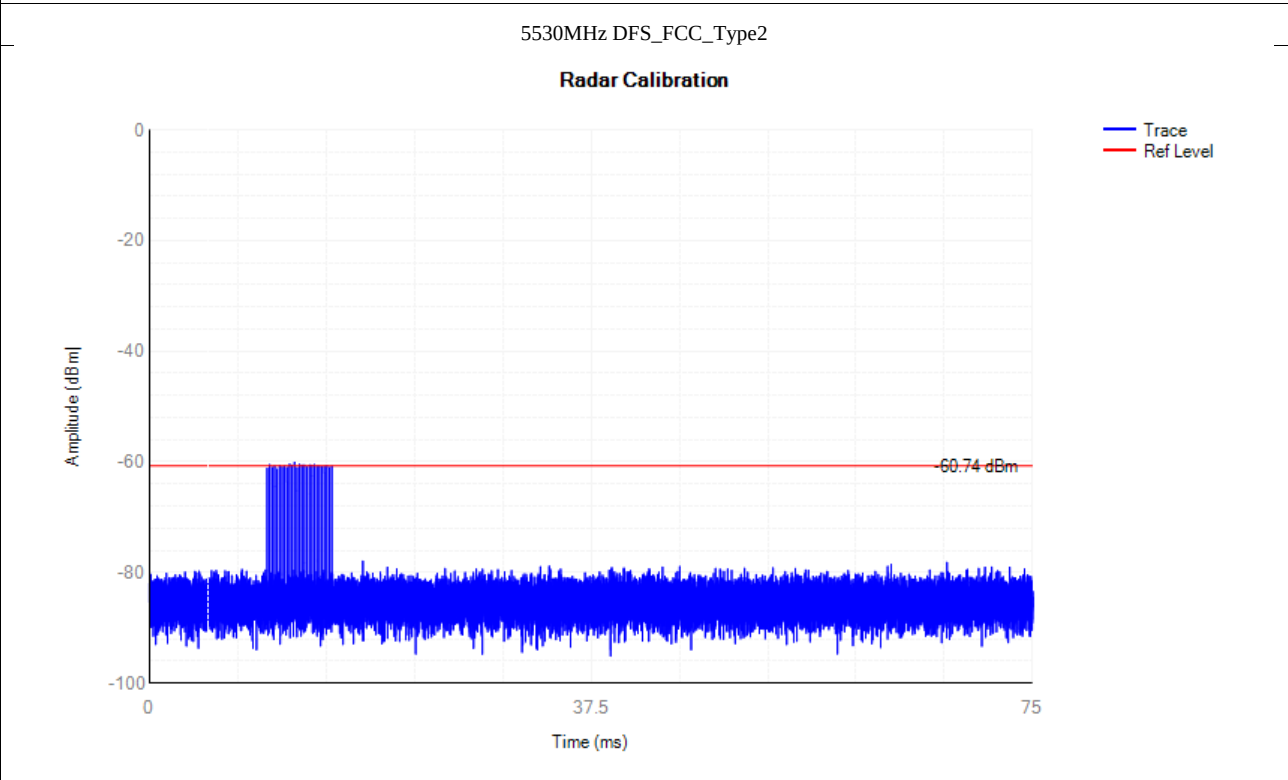
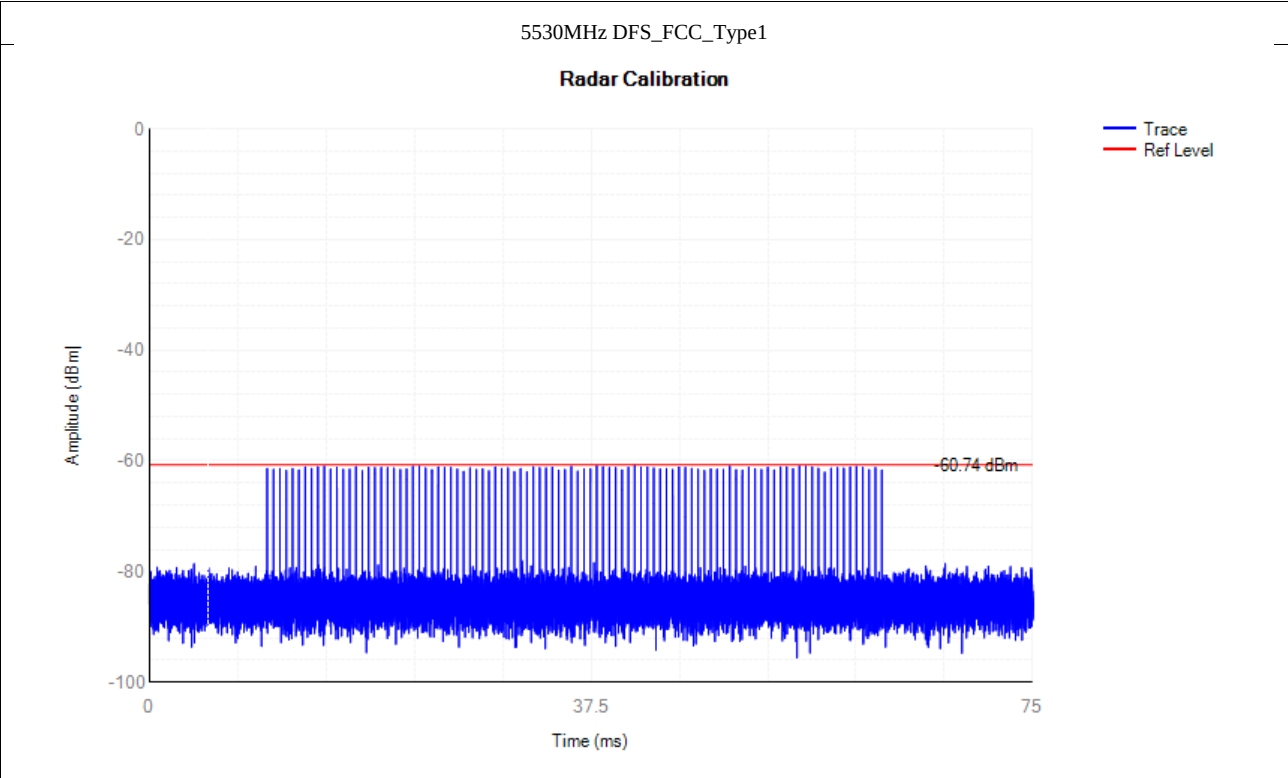


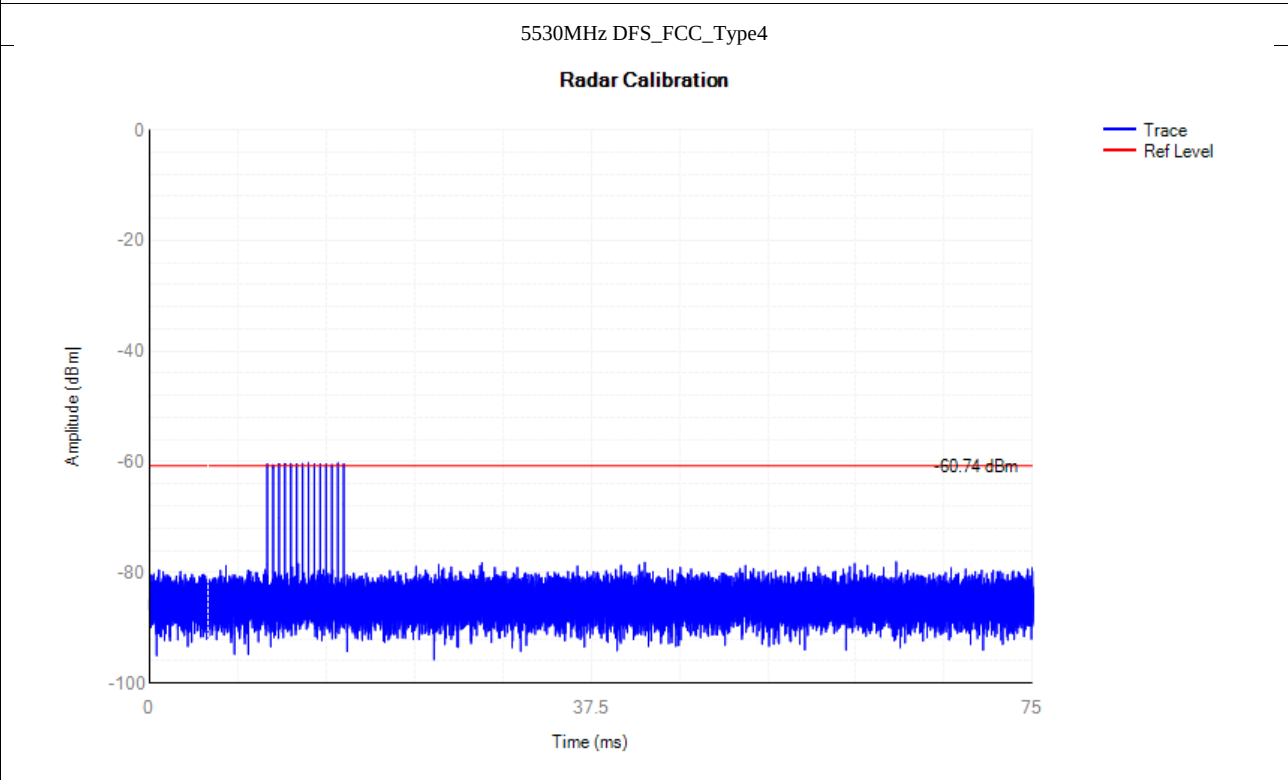
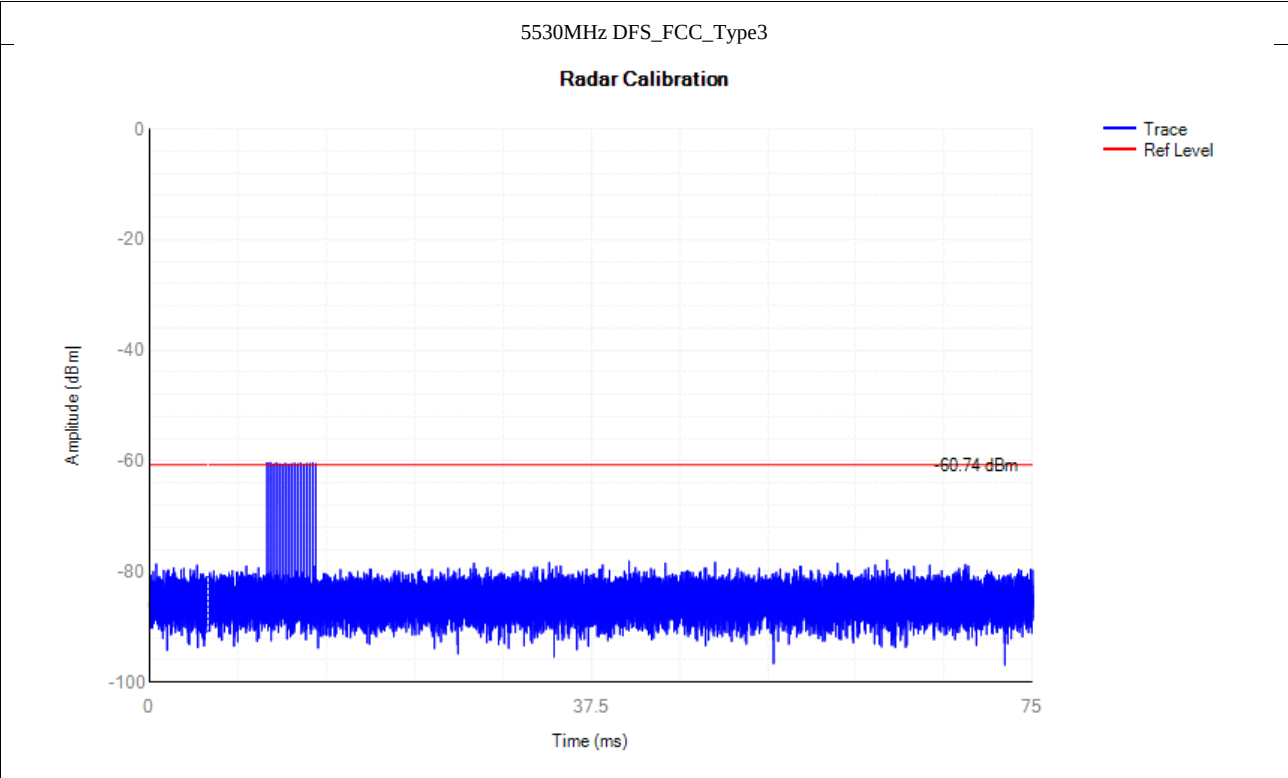


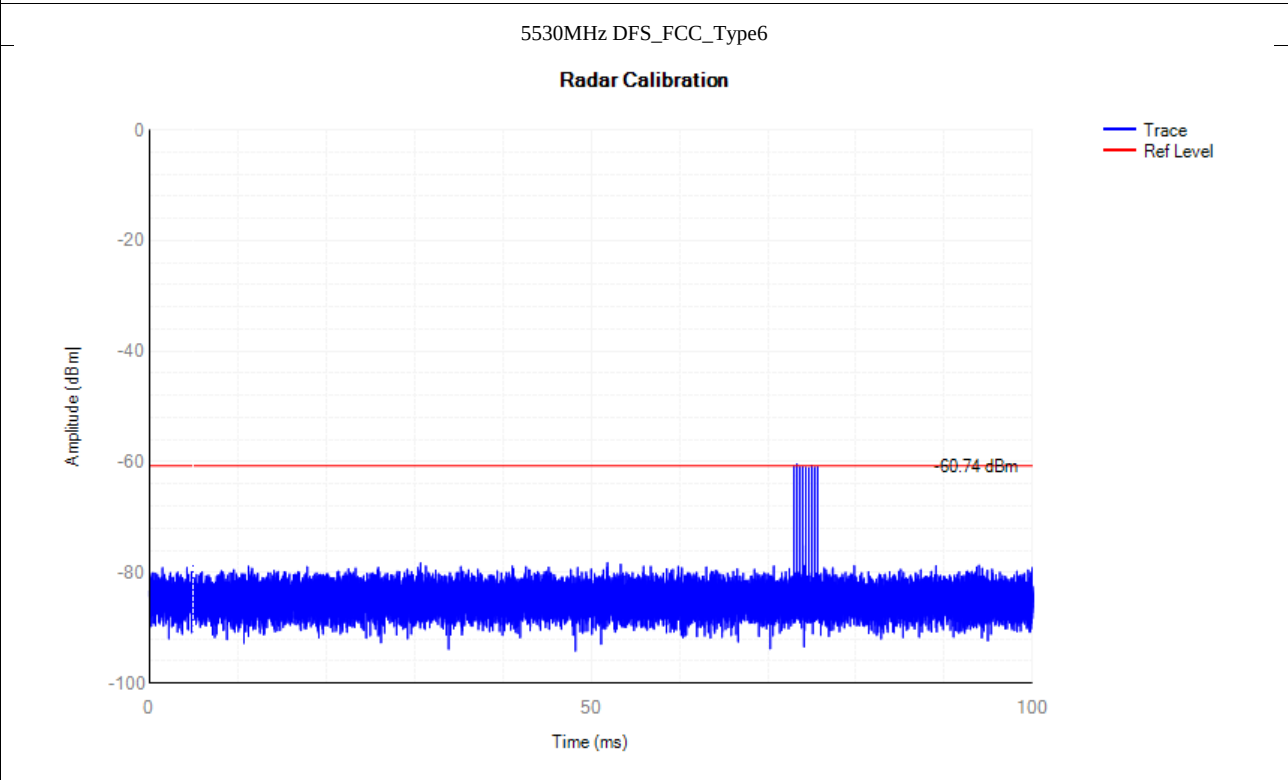
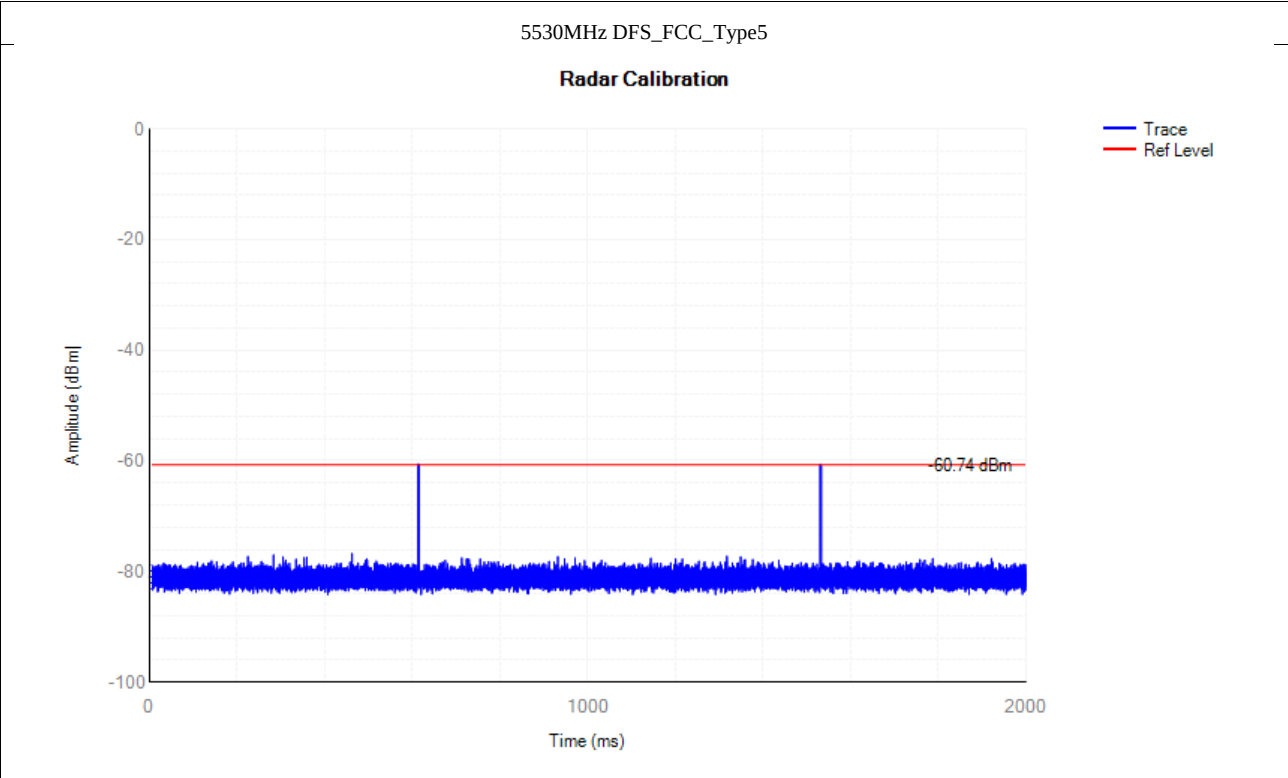


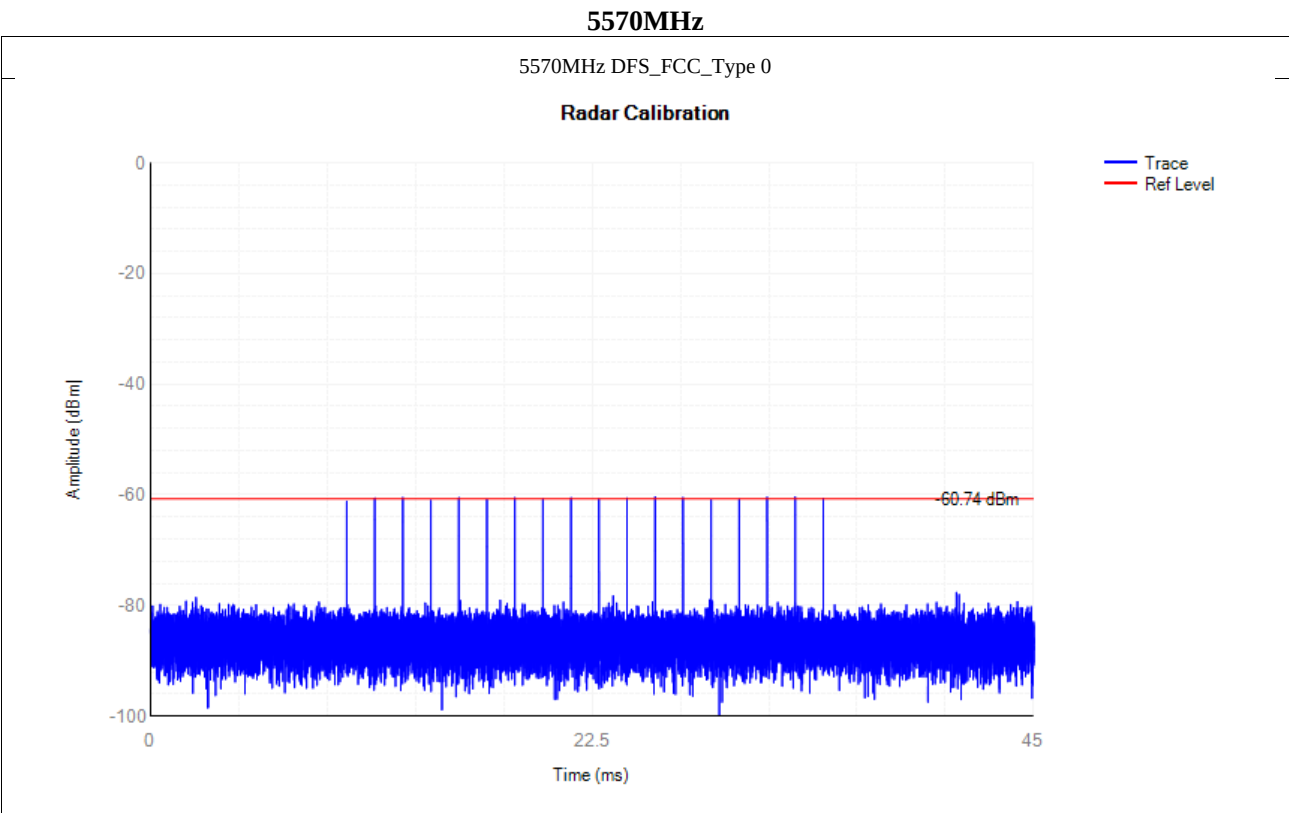
5530MHz

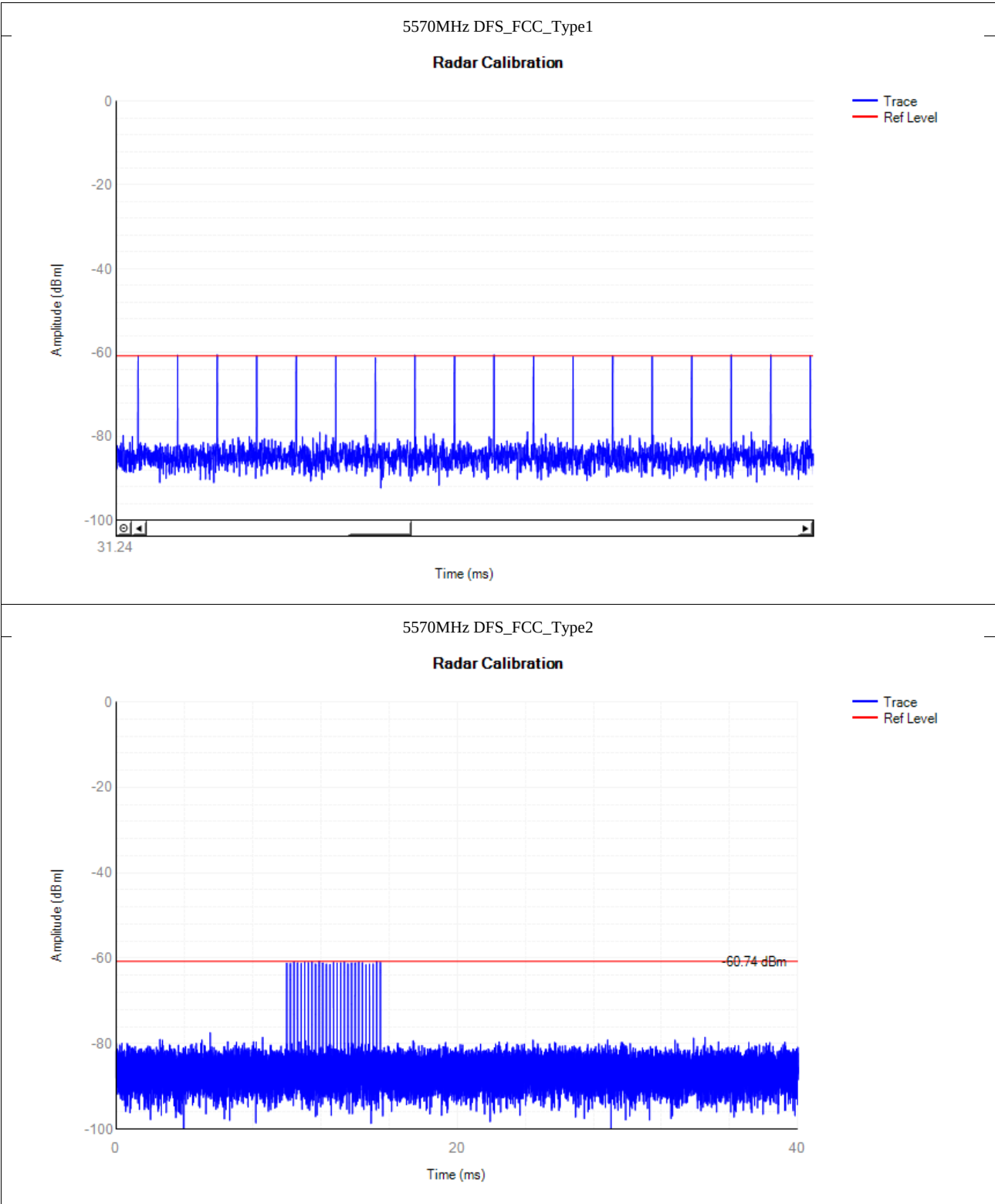


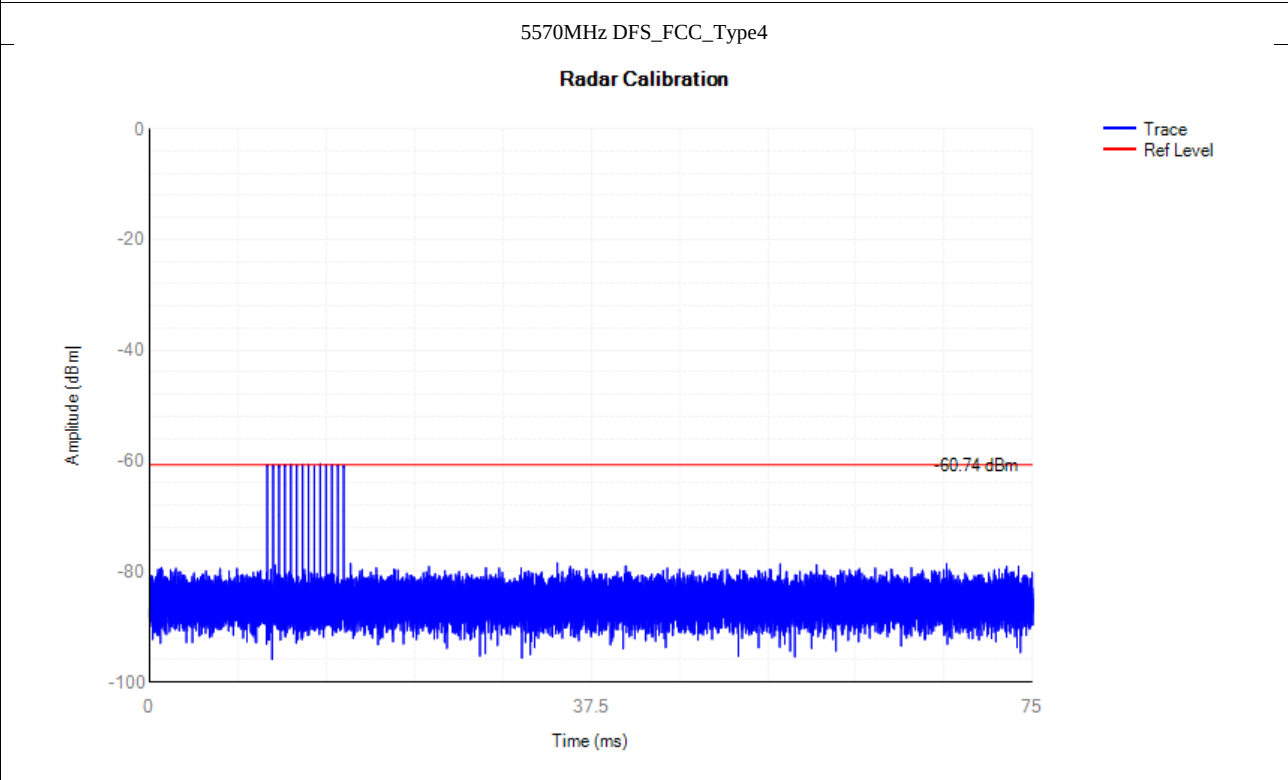
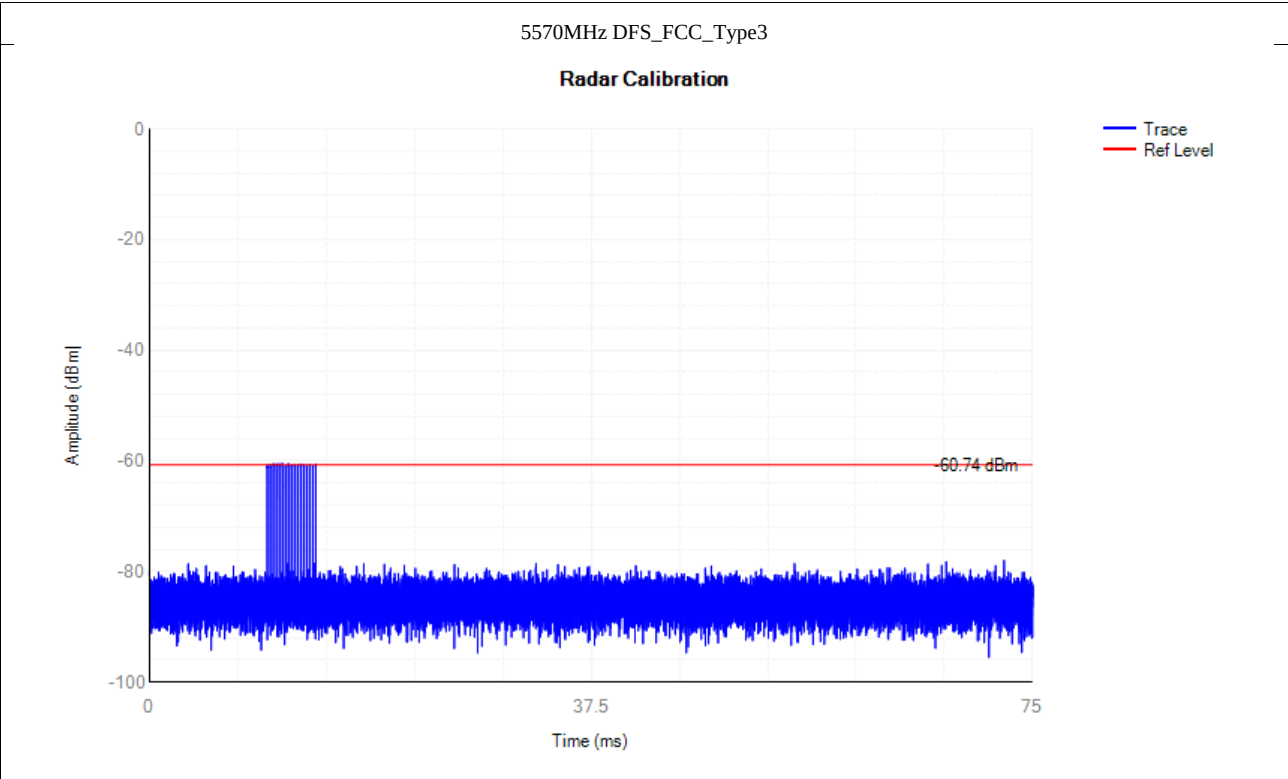


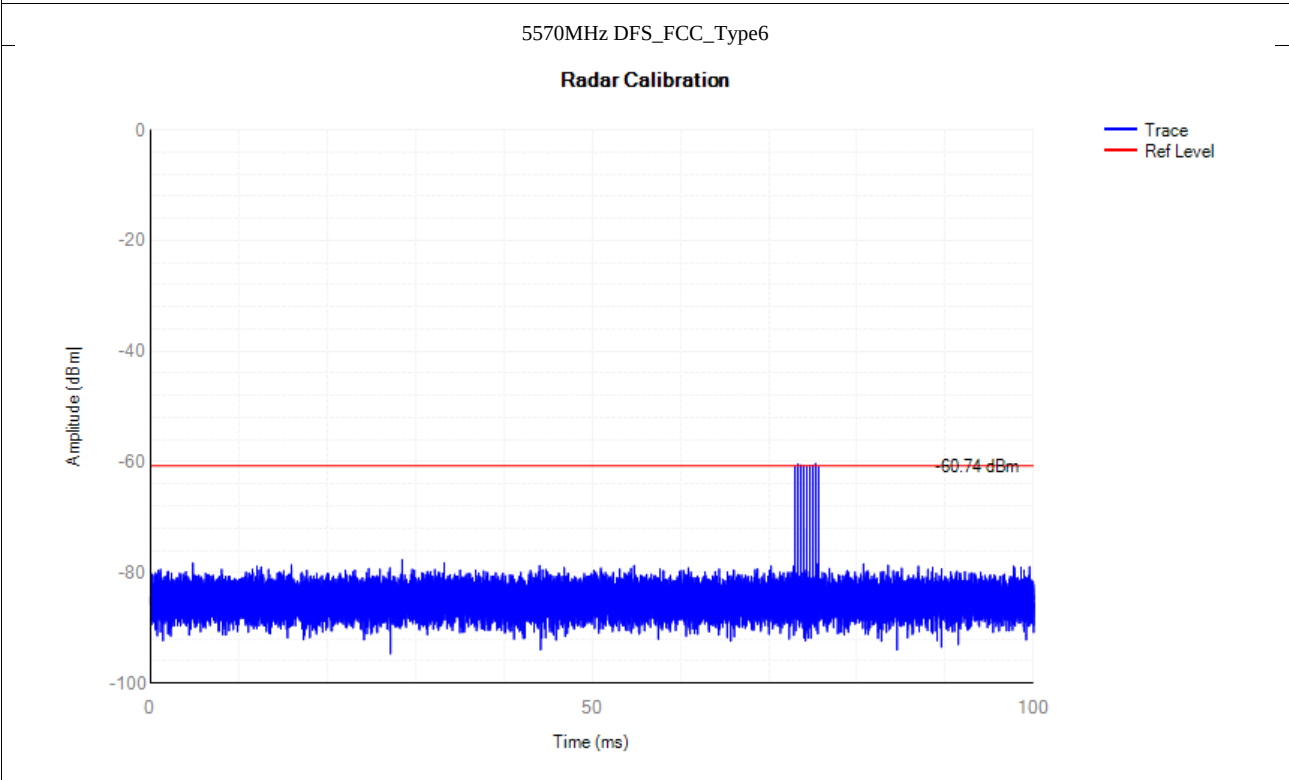
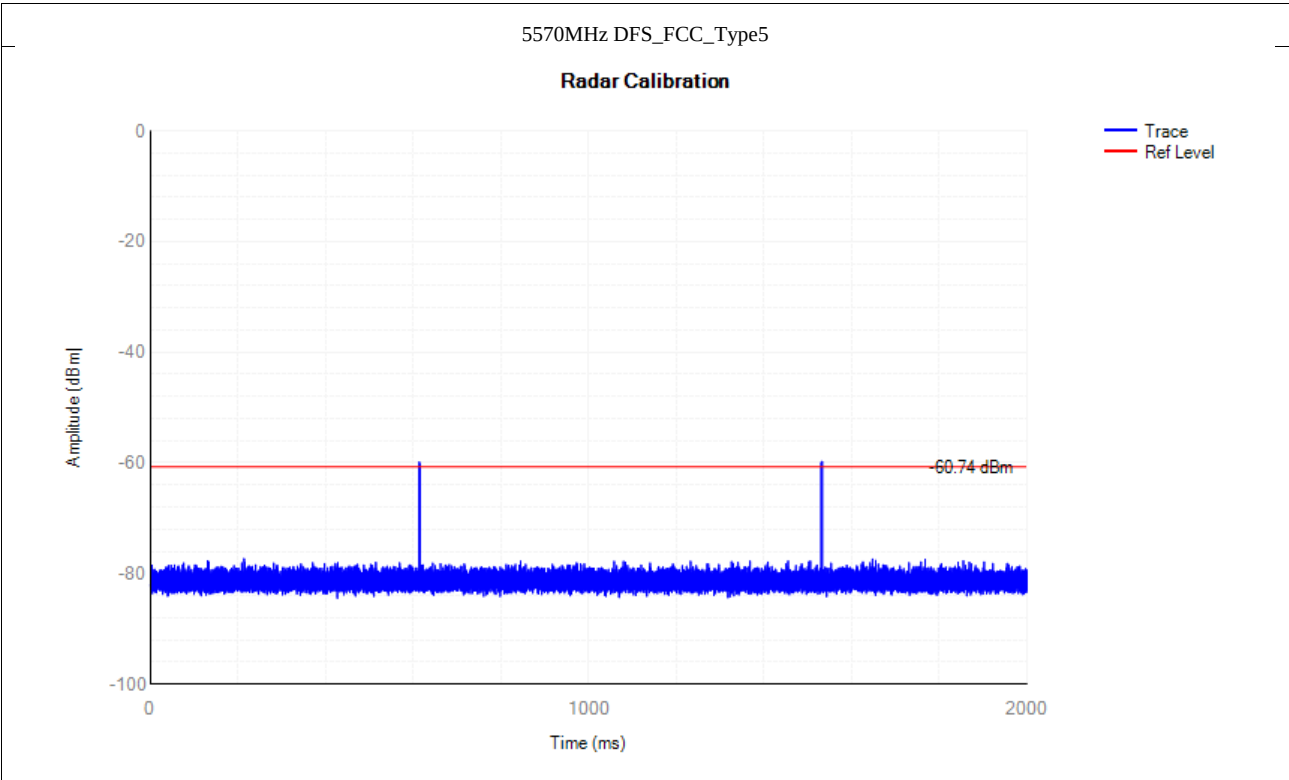












----- The following blanks -----

Radar 0 Statical Performances

Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)
1	18	1	1428

Radar 1 Statical Performances

Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)
1	65	1	818
2	102	1	518
3	72	1	738
4	18	1	3066
5	92	1	578
6	58	1	918
7	68	1	778
8	76	1	698
9	58	1	918
10	81	1	658
11	95	1	558
12	76	1	698
13	65	1	818
14	68	1	778
15	89	1	598
16	89	1	598
17	78	1	678
18	72	1	738
19	65	1	818
20	74	1	718
21	81	1	658
22	81	1	658
23	65	1	818
24	59	1	898
25	63	1	838
26	62	1	858
27	57	1	938
28	58	1	918
29	63	1	838
30	63	1	838

Radar 2 Statical Performances

Trial #	Number of Pulses per Burst	Pulse Width (μsec)	PRI (μs)
1	25	1.3	170
2	24	1.8	171
3	27	2.5	152
4	25	2.6	203
5	28	3.8	210
6	26	2.6	195
7	26	1.4	202
8	29	2.8	214
9	28	2.3	189
10	28	2	200
11	24	4.2	226
12	25	3.6	229
13	27	4	172
14	25	2.4	201
15	27	1.8	159
16	23	4.7	222
17	26	4.9	197
18	25	4	211
19	29	3.3	212
20	24	2.4	206
21	25	4.6	229
22	25	3.4	189
23	29	2.9	153
24	24	4.8	174
25	24	2.1	207
26	27	2	213
27	25	4.9	153
28	23	2	230
29	24	4.9	156
30	26	3.4	170

Radar 3 Statical Performances

Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)
1	17	7.9	472
2	17	7.8	491
3	18	6.3	457
4	18	6.8	429
5	18	6.1	420
6	17	9.8	210
7	18	7.8	322
8	17	9.7	464
9	18	6.2	497
10	16	9.1	203
11	17	10	265
12	17	8.3	467
13	16	7.5	370
14	17	9.2	264
15	17	9.8	483
16	17	7.1	257
17	17	6.5	479
18	16	8.4	225
19	18	8.4	335
20	17	9.6	332
21	16	8.3	385
22	18	6.2	361
23	18	8.6	289
24	17	9.8	261
25	17	6.9	317
26	18	9.8	356
27	17	8.8	373
28	17	9.9	481
29	16	9.7	200
30	16	8.7	460

Radar 4 Statical Performances

Trial #	Number of Pulses per Burst	Pulse Width (μsec)	PRI (μs)
1	14	16	412
2	15	17	315
3	13	16.3	444
4	14	16.9	344
5	15	13.5	373
6	12	14	217
7	12	13	486
8	14	12.6	425
9	13	15.1	416
10	12	11.5	488
11	14	12.1	300
12	15	17.5	434
13	15	11.5	368
14	15	16	222
15	16	12.4	407
16	14	17.5	329
17	13	18.3	392
18	13	16.1	464
19	14	12.5	276
20	16	16	287
21	13	11.1	228
22	13	20	419
23	15	11.7	266
24	13	18.6	419
25	13	11	239
26	13	12.4	490
27	16	15.6	213
28	15	13.9	415
29	13	13.9	481
30	15	16.9	301

Radar 5 Statical Performances(5500MHz)

Trial Number : 1						
Bursts in Trial: 12						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	93.6	16	1847	1350	618.231
2	2	84.2	16	1338		68.31
3	3	75.9	16	1690	1973	639.15
4	2	91.6	16	1720		980.6
5	3	96.9	16	1048	1685	298.69
6	2	90.6	16	1893		226.04
7	2	60.1	16	1020		862.36
8	2	67.2	16	1239		651.55
9	2	59.1	16	1171		859.75
10	2	94.3	16	1647		13.25
11	1	87.5	16			401.6
12	2	98.9	16	1753		845.5

Trial Number : 2						
Bursts in Trial: 19						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	74.1	18	1187	1405	249.631
2	2	69.3	18	1639		418.411
3	2	53.1	18	1793		314.492
4	1	95.9	18			225.313
5	1	78.2	18			62.294
6	2	91.8	18	1999		494.655
7	1	92.2	18			160.016
8	2	58.5	18	1527		231.397
9	3	64.9	18	1924	1018	441.748
10	3	83.9	18	1571	1639	294.549
11	1	63.1	18			386.191
12	2	90.7	18	1544		56.352
13	2	87.1	18	1055		86.003
14	3	97	18	1942	1225	87.254
15	1	94.3	18			398.315
16	1	89.2	18			515.726
17	1	64.8	18			580.937
18	2	67.1	18	1485		304.758
19	2	88.2	18	1212		94.179

Trial Number : 3						
Bursts in Trial: 14						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	97.6	19			692.765
2	2	95.1	19	1390		106.502
3	1	52.7	19			529.344
4	3	67.7	19	1141	1221	508.721
5	2	97.7	19	1677		462.179
6	2	87.3	19	1617		483.886
7	2	99.7	19	1771		399.373
8	1	82.8	19			699.02
9	1	80.4	19			415.507
10	2	70.7	19	1620		197.354
11	2	76	19	1425		728.031
12	2	62.5	19	1690		149.749
13	3	53.9	19	1824	1104	673.086
14	2	78.3	19	1483		267.943

Trial Number : 4						
Bursts in Trial: 15						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	54.6	11			427.995
2	2	74.8	11	1230		712.91
3	2	51.7	11	1507		751.14
4	1	73.1	11			21.69
5	3	70.3	11	1270	1181	669.52
6	2	82.3	11	1048		73.51
7	2	52.1	11	1728		210.74
8	2	86	11	1245		370.44
9	3	84.6	11	1838	1195	214.03
10	2	90.8	11	1189		564.28
11	2	54.9	11	1560		360.36
12	2	71.1	11	1569		372.87
13	2	94.2	11	1248		228.77
14	2	77.6	11	1763		317.4
15	2	61.7	11	1370		274.4

Trial Number : 5						
Bursts in Trial: 9						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	91.6	15			693.623
2	3	62.4	15	1978	1641	1178.497
3	2	93.3	15	1567		711.783
4	2	82.8	15	1362		1126.17
5	1	84.2	15			89.487
6	2	55	15	1489		250.723
7	2	83.4	15	1707		934.27
8	1	78.8	15			1273.967
9	3	65.5	15	1596	1332	560.033

Trial Number : 6						
Bursts in Trial: 19						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	52.9	18	1594	1257	475.626
2	1	57.7	18			433.001
3	2	75.3	18	1324		598.282
4	2	60.6	18	1417		458.563
5	1	66.1	18			168.324
6	3	69.4	18	1695	1745	262.225
7	1	83.6	18			349.636
8	3	77.9	18	1164	1192	291.167
9	2	97.8	18	1371		451.288
10	2	69.8	18	1046		545.409
11	1	100	18			174.291
12	1	53.2	18			444.202
13	2	68.3	18	2000		544.193
14	3	98.2	18	1913	1917	218.574
15	3	68.3	18	1584	1690	566.185
16	2	86.1	18	1521		34.606
17	3	56.2	18	1339	1515	138.937
18	3	83.7	18	1803	1784	74.058
19	1	77.7	18			271.779

Trial Number : 7						
Bursts in Trial: 13						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	70.4	6	1871	1880	432.293
2	1	73.2	6			300.273
3	3	82	6	1957	1588	896.636
4	2	98.9	6	1842		449.659
5	1	85.3	6			163.562
6	2	89.6	6	1307		667.155
7	3	94.5	6	1373	1613	439.908
8	3	84.9	6	1109	1433	914.212
9	2	89.6	6	1272		99.915
10	1	77.1	6			338.698
11	3	57.1	6	1171	1339	83.661
12	2	86.6	6	1148		204.454
13	2	82.6	6	1837		612.077

Trial Number : 8						
Bursts in Trial: 20						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	81.3	20	1304		114.157
2	3	71.4	20	1613	1197	170.909
3	2	64.9	20	1410		185.48
4	2	51.7	20	1543		468.54
5	3	85.1	20	1900	1361	549.71
6	2	60.2	20	1223		373.85
7	3	64.7	20	1290	1585	228.32
8	2	74.1	20	1559		400.12
9	2	58.5	20	1623		312.47
10	2	63.9	20	1824		392.7
11	2	62	20	1531		490.88
12	2	95.8	20	1405		511.67
13	3	60.2	20	1595	1505	420.69
14	2	83.1	20	1114		150.65
15	2	55.6	20	1001		387.64
16	3	77	20	1953	1919	479.57
17	2	94.8	20	1053		9.7
18	2	93.9	20	1313		194.6
19	3	91	20	1263	1081	591.5
20	2	99.5	20	1534		327.8

Trial Number : 9						
Bursts in Trial: 19						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	78.7	9	1088		104.957
2	2	84.4	9	1428		178.596
3	3	65.9	9	1468	1793	332.952
4	3	59.6	9	1686	1484	121.883
5	2	99.5	9	1659		306.804
6	2	77.7	9	1826		139.755
7	2	73.9	9	1632		569.436
8	3	79.2	9	1223	1462	524.157
9	2	87.4	9	1102		601.698
10	2	53.9	9	1257		208.049
11	3	68.4	9	1767	1476	273.191
12	2	86.1	9	1395		202.672
13	1	60.9	9			14.453
14	3	74.9	9	1654	1642	561.524
15	2	74.1	9	1169		122.475
16	3	59	9	1633	1603	146.356
17	2	78.8	9	1092		427.637
18	2	85.1	9	1379		522.758
19	1	96.3	9			337.379

Trial Number : 10						
Bursts in Trial: 17						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	85.9	13	1471	1765	428.302
2	1	72.7	13			509.188
3	2	73.5	13	1797		579.005
4	3	64.4	13	1631	1485	308.803
5	3	79.6	13	1021	1534	58.021
6	3	66.7	13	1392	1413	150.378
7	2	54	13	1261		371.176
8	3	76.9	13	1438	1070	175.254
9	2	69.7	13	1072		140.141
10	2	53.8	13	1579		218.969
11	2	95.2	13	2000		456.416
12	2	87.1	13	1606		692.184
13	2	91.4	13	1900		227.752
14	2	67.2	13	1822		220.709
15	2	97.2	13	1227		71.747
16	2	60.7	13	1646		110.265
17	3	57.8	13	1347	1271	42.982

Trial Number : 11						
Bursts in Trial: 16						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	79.4	19	1480		489.968
2	1	74.9	19			598.89
3	2	79.1	19	1694		105.79
4	2	57.9	19	1916		704.72
5	2	90.3	19	1797		46.44
6	2	97.4	19	1943		532.32
7	1	76.6	19			644.09
8	3	57.1	19	1732	1768	561.64
9	3	97.2	19	1787	1784	104.68
10	1	80	19			340.07
11	3	50.1	19	1357	1626	324.43
12	1	83	19			672.03
13	3	91.5	19	1752	1549	659.72
14	3	87	19	1364	1987	299.8
15	1	73.8	19			124.3
16	2	62.1	19	1903		17.2

Trial Number : 12						
Bursts in Trial: 16						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	79	10			195.998
2	2	53.1	10	1384		450.33
3	3	77.8	10	1316	1424	341.76
4	3	69.3	10	1179	1693	708.72
5	2	84.2	10	1183		538.9
6	2	70.5	10	1241		97.71
7	3	78.8	10	1959	1050	4.88
8	1	82.5	10			183.31
9	3	91.2	10	1350	1829	486.34
10	2	65.5	10	1697		425.35
11	3	84.9	10	1975	1913	702.58
12	2	94.3	10	1588		203.23
13	2	90.3	10	1762		219.51
14	2	74.4	10	1197		740.3
15	2	56.3	10	1005		439
16	2	94.1	10	1807		374.8

Trial Number : 13						
Bursts in Trial: 12						
Burst	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	2	78.9	17	1929		442.93
2	2	70.3	17	1330		786.67
3	2	74.4	17	1654		213.51
4	2	94.1	17	1452		644.49
5	2	99.8	17	1482		703.45
6	2	94.7	17	1654		663.56
7	3	80.4	17	1476	1661	804.91
8	1	54.4	17			507.3
9	2	52.2	17	1277		25.92
10	3	66.3	17	1704	1743	761.02
11	2	70.3	17	1059		168.8
12	3	63.6	17	1560	1739	388.5

Trial Number : 14						
Bursts in Trial: 10						
Burst	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	3	71.3	20	1785	1212	1029.59
2	3	91.2	20	1240	1775	320.72
3	2	92.2	20	1965		773.72
4	2	87.3	20	1680		220.79
5	2	85.2	20	1609		830.69
6	3	69.2	20	1112	1812	165.45
7	2	73.3	20	1611		1044.95
8	1	73.8	20			292.87
9	3	91.2	20	1249	1379	653.6
10	3	56.5	20	1504	1075	290.4

Trial Number : 15						
Bursts in Trial: 8						
Burst	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	3	51.4	7	1518	1727	809.176
2	2	83.6	7	1307		970.86
3	3	51.6	7	1760	1082	1217.56
4	3	79.2	7	1888	1432	1217.64
5	3	84.7	7	1493	1553	269.02
6	3	97.3	7	1833	1142	791.9
7	2	64.6	7	1701		1487.8
8	2	80	7	1061		1124.4

Trial Number : 16						
Bursts in Trial: 13						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	80.3	20	1960	1308	718.009
2	1	63.6	20			466.473
3	2	77.3	20	1531		652.676
4	3	76	20	1121	1470	189.589
5	2	73.1	20	1480		558.132
6	2	87.8	20	1250		219.425
7	2	77.9	20	1250		131.458
8	1	75.1	20			439.232
9	2	90.2	20	1069		109.375
10	2	69.5	20	1761		608.468
11	1	50.8	20			290.581
12	3	78.7	20	1937	1650	440.554
13	2	92.4	20	1566		242.177

Trial Number : 17						
Bursts in Trial: 9						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	90	15	1710		902.011
2	2	65.9	15	1591		101.297
3	2	92.8	15	1945		1247.383
4	2	79.6	15	1052		86.16
5	1	81.6	15			589.737
6	2	68.3	15	1747		460.733
7	3	54.9	15	1864	1416	1184.22
8	2	77.4	15	1123		477.887
9	2	60.9	15	1012		872.033

Trial Number : 18						
Bursts in Trial: 16						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	60.6	11	1629	1909	283.408
2	1	97.9	11			479.38
3	1	73.4	11			636.22
4	2	84.7	11	1791		1.3
5	2	81.1	11	1734		260.41
6	2	97.1	11	1947		716.79
7	3	70.8	11	1285	1955	243.25
8	1	84.9	11			550.47
9	1	74.5	11			19.36
10	3	93.3	11	1362	1729	266.59
11	2	84.3	11	1626		109.78

12	2	88.5	11	1238		328.18
13	2	73.2	11	1835		119.3
14	1	61.4	11			454
15	2	89.7	11	1765		12.3
16	3	63.7	11	1044	1445	743.4

Trial Number : 19**Bursts in Trial: 16**

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	69.5	15	1071		242.805
2	1	57.8	15			350.09
3	2	91.1	15	1491		484.08
4	2	90.2	15	1654		673.94
5	2	75.9	15	1461		389.7
6	1	72.5	15			454.11
7	3	88.5	15	1338	1930	163.29
8	1	60	15			41.53
9	1	92.2	15			391.15
10	3	68.2	15	1114	1967	201.82
11	2	66.1	15	1851		693.88
12	2	57.4	15	1950		90.13
13	3	53.8	15	1753	1560	252.33
14	1	92.3	15			436.9
15	3	71.9	15	1499	1617	642.9
16	1	85.6	15			600.8

Trial Number : 20**Bursts in Trial: 12**

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	96.6	17	1980		412.166
2	2	56.8	17	1416		910.49
3	3	52.1	17	1095	1684	370.27
4	2	62.7	17	1709		972.13
5	2	51.7	17	1801		820.75
6	1	74.2	17			979.07
7	2	58.3	17	1529		885.68
8	3	75.1	17	1305	1180	971.98
9	2	94	17	1894		718.84
10	3	99.1	17	1084	1537	59.89
11	1	97.2	17			712.5
12	3	95.1	17	1268	1454	783.4

Trial Number : 21						
Bursts in Trial: 13						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	54.1	8			402.22
2	2	78.2	8	1825		487.693
3	1	77.5	8			481.576
4	1	80.9	8			302.909
5	3	73.8	8	1294	1539	501.412
6	1	67.2	8			543.475
7	1	79.9	8			174.448
8	2	54.4	8	1270		783.622
9	1	70.9	8			116.785
10	1	82.6	8			90.048
11	2	58	8	1285		595.601
12	1	53.7	8			265.954
13	2	83.1	8	1624		367.577

Trial Number : 22						
Bursts in Trial: 13						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	72.8	18			291.86
2	2	77.6	18	1650		551.643
3	2	72.2	18	1120		793.426
4	1	77.5	18			135.049
5	2	92.6	18	1665		336.912
6	1	81.4	18			562.305
7	2	76	18	1937		57.268
8	3	67	18	1315	1692	756.272
9	2	57.8	18	1573		461.145
10	2	83.6	18	1886		105.458
11	2	58.6	18	1189		232.771
12	2	62.8	18	1241		244.854
13	2	81.4	18	1897		912.677

Trial Number : 23						
Bursts in Trial: 8						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	88.2	10	1704		1119.56
2	1	50.5	10			1385.62
3	3	84.6	10	1995	1424	622.77
4	3	89.4	10	1961	1285	985.03
5	1	76.9	10			628.59
6	3	69.7	10	1493	1156	48.53
7	1	86	10			551.12

8	2	68.3	10	1310		1286.4
---	---	------	----	------	--	--------

Trial Number : 24						
Bursts in Trial: 11						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	85.2	13	1947		658.822
2	1	95.8	13			762.801
3	2	97.2	13	1096		751.442
4	2	61.7	13	1838		107.123
5	1	59.7	13			991.764
6	2	75.8	13	1883		11.575
7	3	50	13	1682	1325	697.815
8	3	56.1	13	1611	1949	743.626
9	2	89	13	1215		821.807
10	1	56.8	13			650.018
11	3	69.8	13	1139	1688	59.309

Trial Number : 25						
Bursts in Trial: 14						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	83.6	5			315.874
2	1	65.3	5			0.113
3	1	56.5	5			213.034
4	3	58.2	5	1956	1109	101.101
5	2	54	5	1904		137.759
6	2	89.4	5	1070		43.276
7	3	92.4	5	1105	1707	520.893
8	3	66.8	5	1708	1280	431.02
9	2	62.1	5	1124		634.157
10	2	88.6	5	1631		70.914
11	3	66.9	5	1790	1297	7.901
12	2	84.7	5	1897		822.429
13	1	85.6	5			639.186
14	2	88.9	5	1866		598.543

----- The following blanks -----

Trial Number : 26						
Bursts in Trial: 15						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	82.8	13			644.239
2	3	70.2	13	1495	1030	689.39
3	2	52.9	13	1458		139.58
4	1	70.1	13			85.86
5	2	77.5	13	1631		562.08
6	2	70.2	13	1500		531.08
7	2	82.9	13	1829		402.97
8	2	50	13	1596		654.68
9	1	51	13			468.5
10	3	90.4	13	1523	1382	641.36
11	3	55.6	13	1638	1303	310.94
12	2	89.3	13	1333		268.27
13	3	69.6	13	1993	1263	783.4
14	1	50.7	13			236.1
15	3	80.8	13	1921	1556	86.8

Trial Number : 27						
Bursts in Trial: 12						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	63	20			23.935
2	3	91.1	20	1018	1610	869.96
3	1	98.1	20			677
4	1	84.5	20			806.74
5	2	96.4	20	1983		74.03
6	2	79.7	20	1321		453.55
7	1	90	20			675.92
8	3	99.2	20	1932	1622	6.4
9	2	60.5	20	1266		608.04
10	3	58.5	20	1753	1333	976.52
11	3	51.9	20	1435	1965	825
12	1	57.2	20			745.4

----- The following blanks -----

Trial Number : 28						
Bursts in Trial: 10						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	77.1	11	1968	1325	213.606
2	3	54.3	11	1897	1020	249.26
3	2	75.2	11	1370		984.34
4	2	77.2	11	1570		1068.88
5	2	68.9	11	1077		624.85
6	3	95.2	11	1504	1591	63.93
7	2	70.4	11	1948		1133.64
8	3	57.5	11	1144	1229	365.38
9	2	61.7	11	1939		499.8
10	2	99.5	11	1365		716.3

Trial Number : 29						
Bursts in Trial: 19						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	96.2	15	1357		431.184
2	1	73	15			393.801
3	2	86.7	15	1952		182.322
4	3	79.9	15	1332	1651	230.583
5	2	90.7	15	1276		13.344
6	1	54.3	15			374.635
7	3	58.5	15	1228	1184	442.896
8	2	82.8	15	1414		159.577
9	2	72.1	15	1953		201.808
10	2	81.3	15	1865		409.059
11	2	84.1	15	1280		83.361
12	2	94.5	15	1396		451.772
13	2	56.9	15	1357		592.873
14	2	73	15	1639		350.104
15	2	61.3	15	1751		573.515
16	3	76	15	1040	1130	387.316
17	1	54.9	15			612.637
18	3	61.4	15	1678	1827	525.058
19	2	68.6	15	1400		29.379

Trial Number : 30						
Bursts in Trial: 12						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	79.7	10	1968	1828	271.775
2	2	56.3	10	1144		680.91
3	2	81.9	10	1423		652.33
4	2	62.6	10	1529		92
5	3	55.4	10	1721	1564	122.39
6	2	60.2	10	1069		912.03
7	2	93.5	10	1920		645.18
8	2	89.6	10	1018		408.17
9	3	90	10	1387	1463	80.64
10	3	57.4	10	1401	1921	744.38
11	3	91.8	10	1485	1883	0.1
12	3	72.9	10	1392	1443	370.4

----- The following blanks -----

Radar 6 Statical Performances

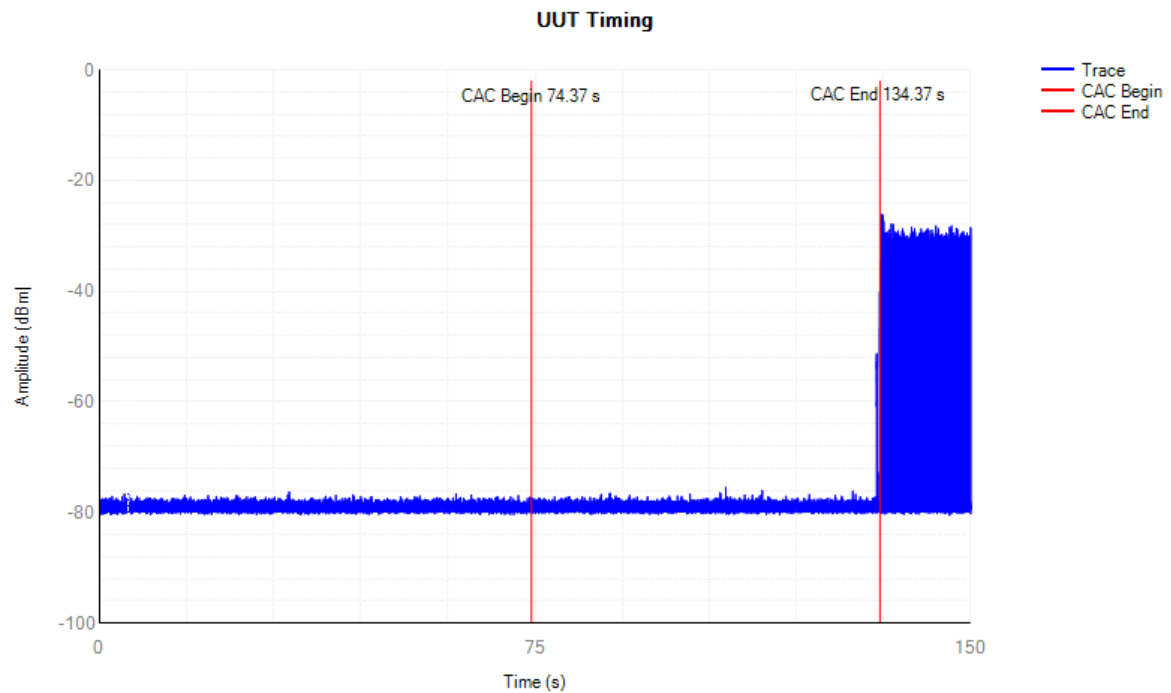
Trial #	Pulse Width (μs)	PRI (μs)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ms)	Number of Pulses
1	1	333.3	9	0.3333	300	16
2	1	333.3	9	0.3333	300	10
3	1	333.3	9	0.3333	300	14
4	1	333.3	9	0.3333	300	19
5	1	333.3	9	0.3333	300	15
6	1	333.3	9	0.3333	300	18
7	1	333.3	9	0.3333	300	14
8	1	333.3	9	0.3333	300	14
9	1	333.3	9	0.3333	300	21
10	1	333.3	9	0.3333	300	15
11	1	333.3	9	0.3333	300	16
12	1	333.3	9	0.3333	300	24
13	1	333.3	9	0.3333	300	13
14	1	333.3	9	0.3333	300	20
15	1	333.3	9	0.3333	300	17
16	1	333.3	9	0.3333	300	20
17	1	333.3	9	0.3333	300	16
18	1	333.3	9	0.3333	300	18
19	1	333.3	9	0.3333	300	14
20	1	333.3	9	0.3333	300	16
21	1	333.3	9	0.3333	300	20
22	1	333.3	9	0.3333	300	19
23	1	333.3	9	0.3333	300	23
24	1	333.3	9	0.3333	300	17
25	1	333.3	9	0.3333	300	16
26	1	333.3	9	0.3333	300	13
27	1	333.3	9	0.3333	300	13
28	1	333.3	9	0.3333	300	18
29	1	333.3	9	0.3333	300	19
30	1	333.3	9	0.3333	300	20

7.3 CHANNEL AVAILABILITY CHECK TIME

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

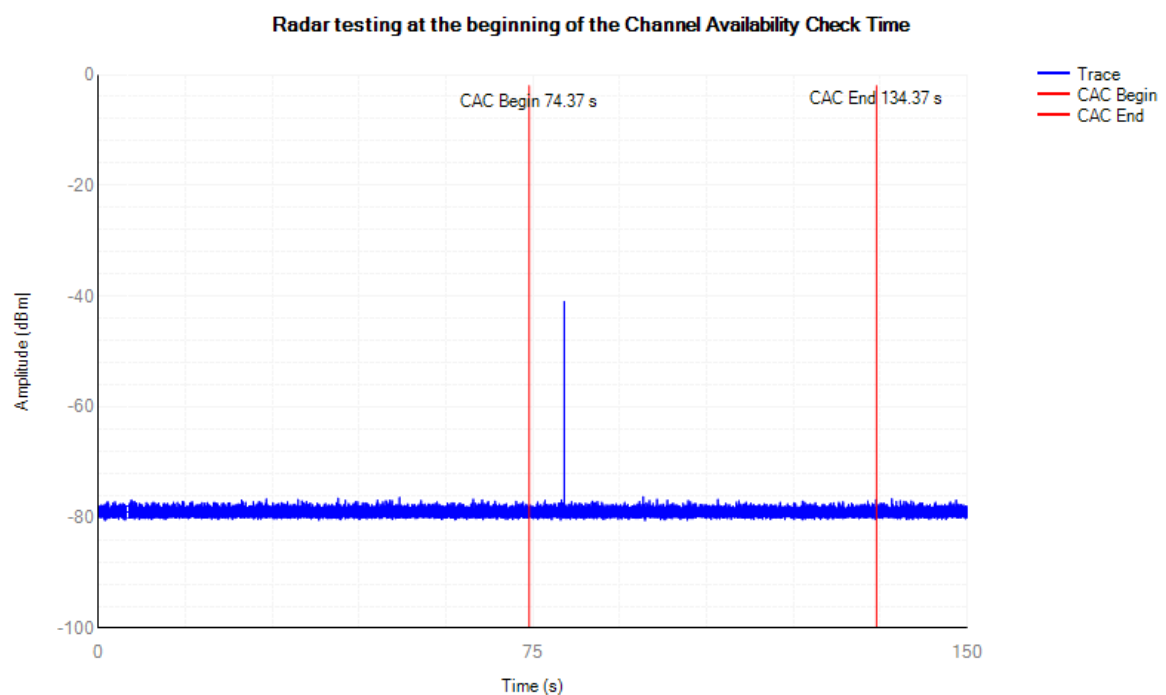
IEEE 802.11a 5320MHz Mode

Initial Channel Availability Check Time



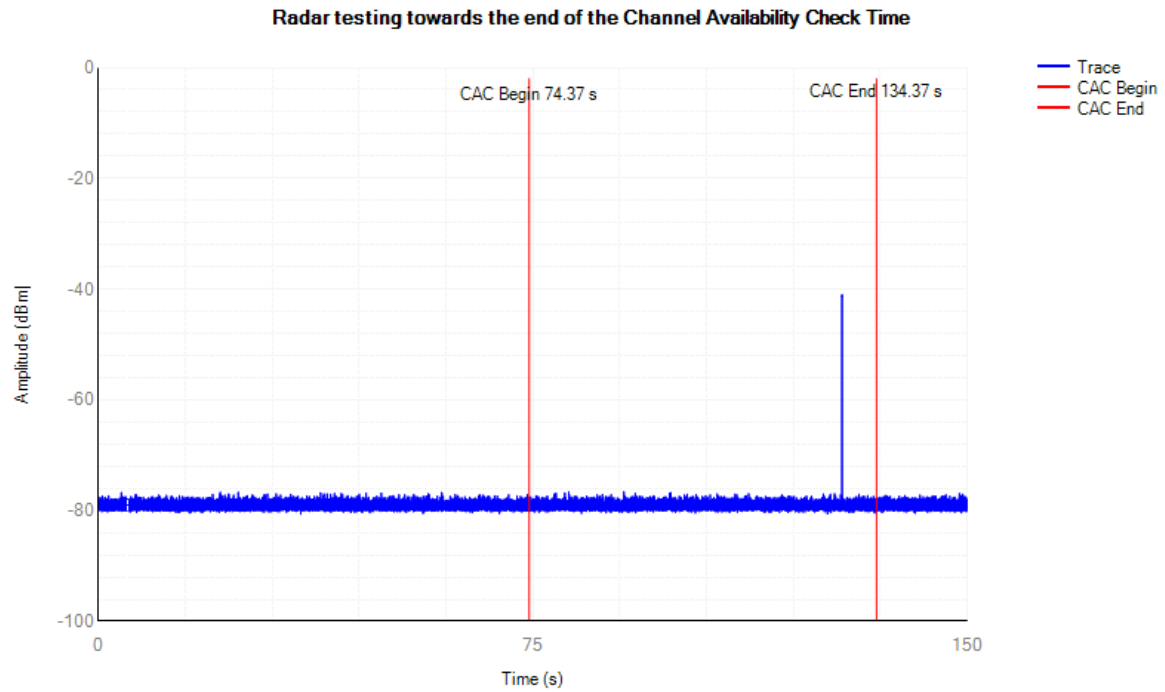
IEEE 802.11a 5320MHz Mode

Radar Burst at the Beginning of the Channel Availability Check Time

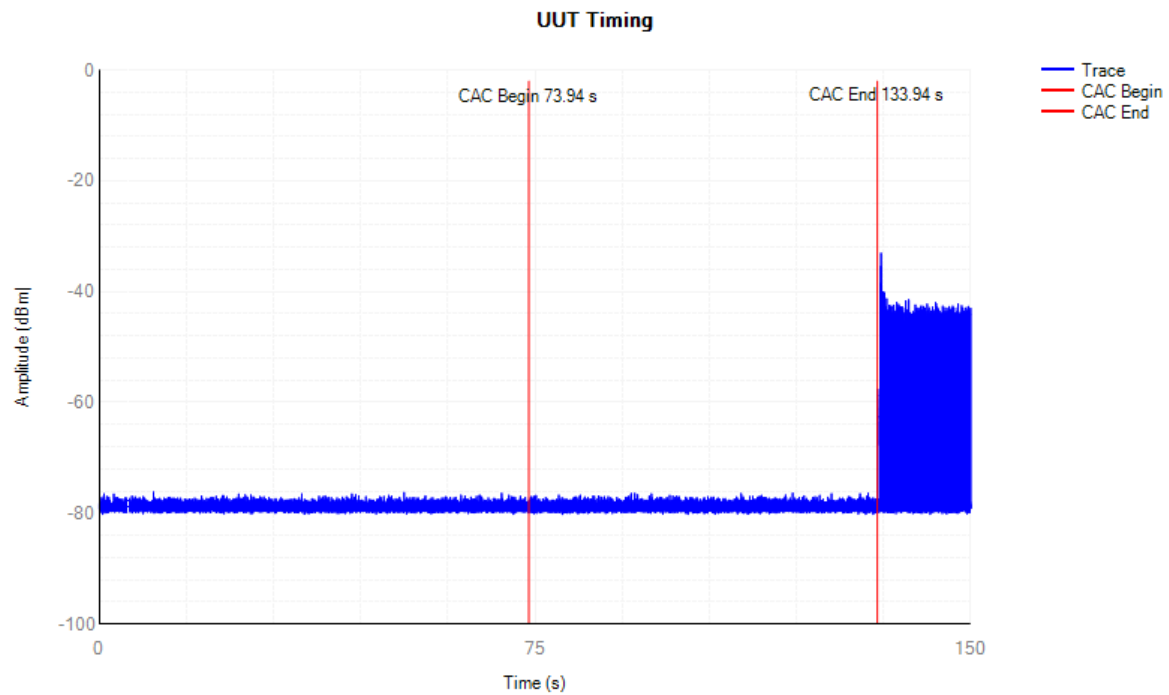


IEEE 802.11a 5320MHz Mode

Radar Burst at the End of the Channel Availability Check Time

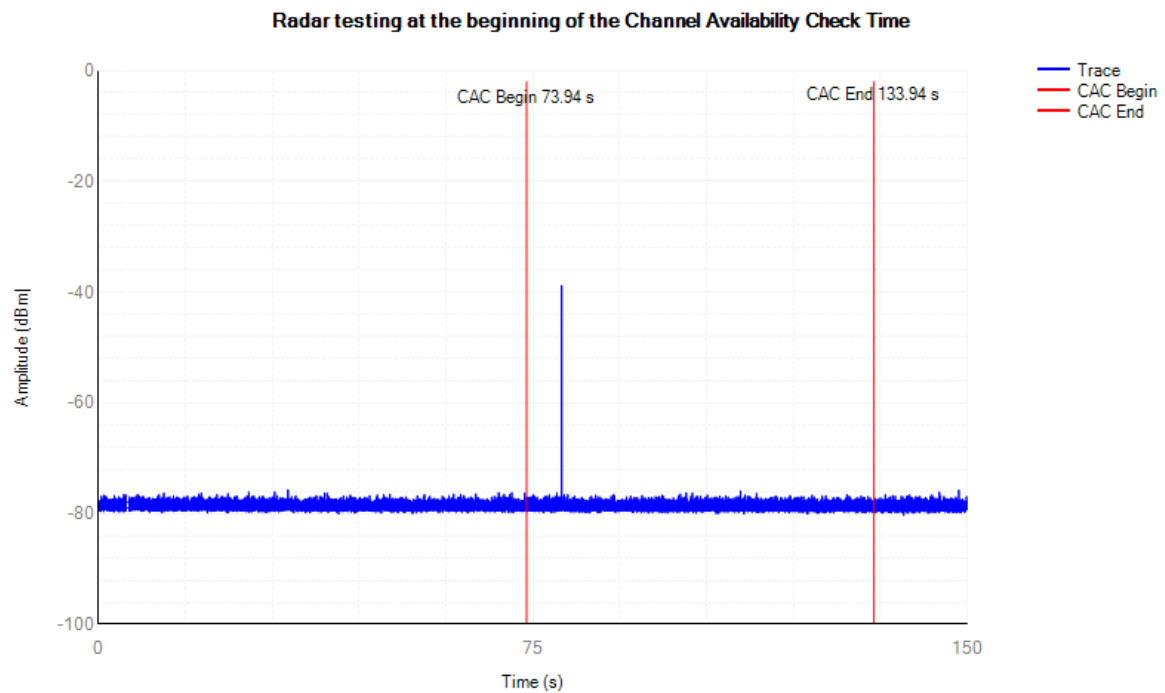
**IEEE 802.11n HT40 5310MHz Mode**

Initial Channel Availability Check Time

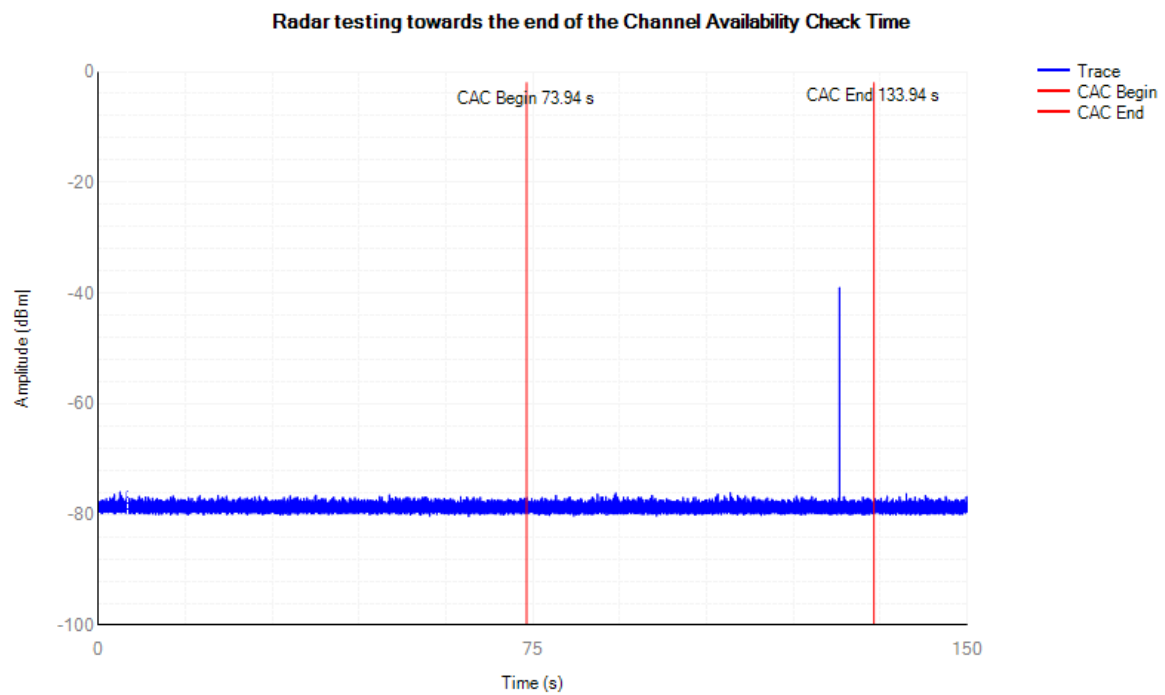


IEEE 802.11n HT40 5310MHz Mode

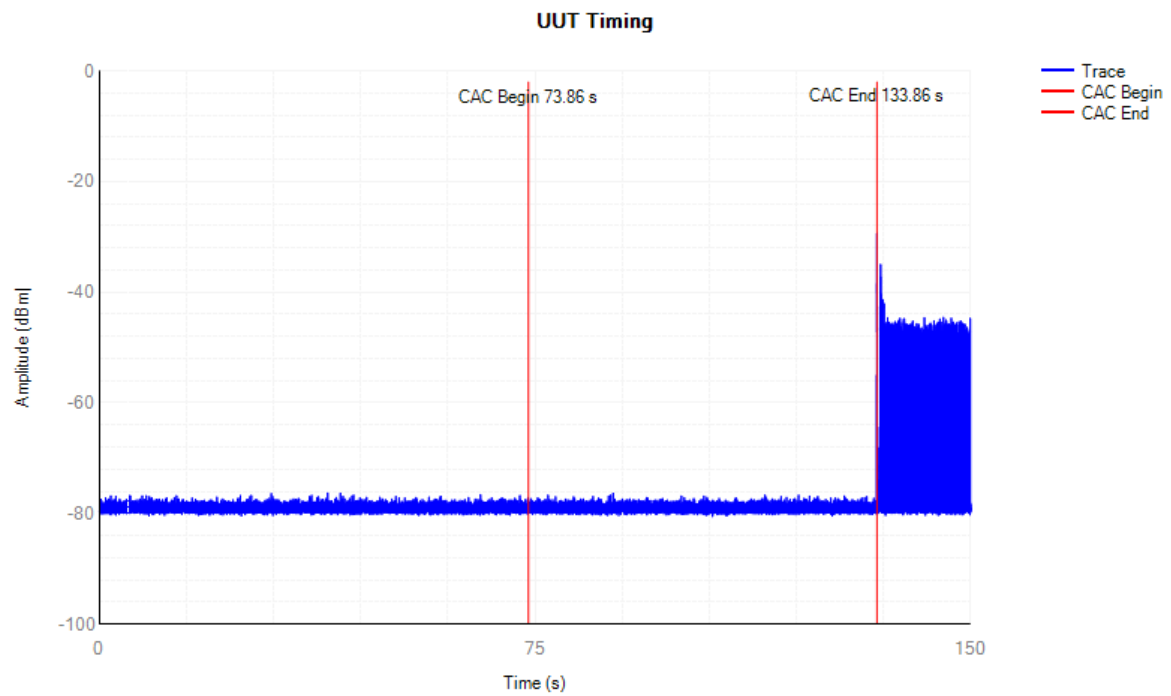
Radar Burst at the Beginning of the Channel Availability Check Time

**IEEE 802.11n HT40 5310MHz Mode**

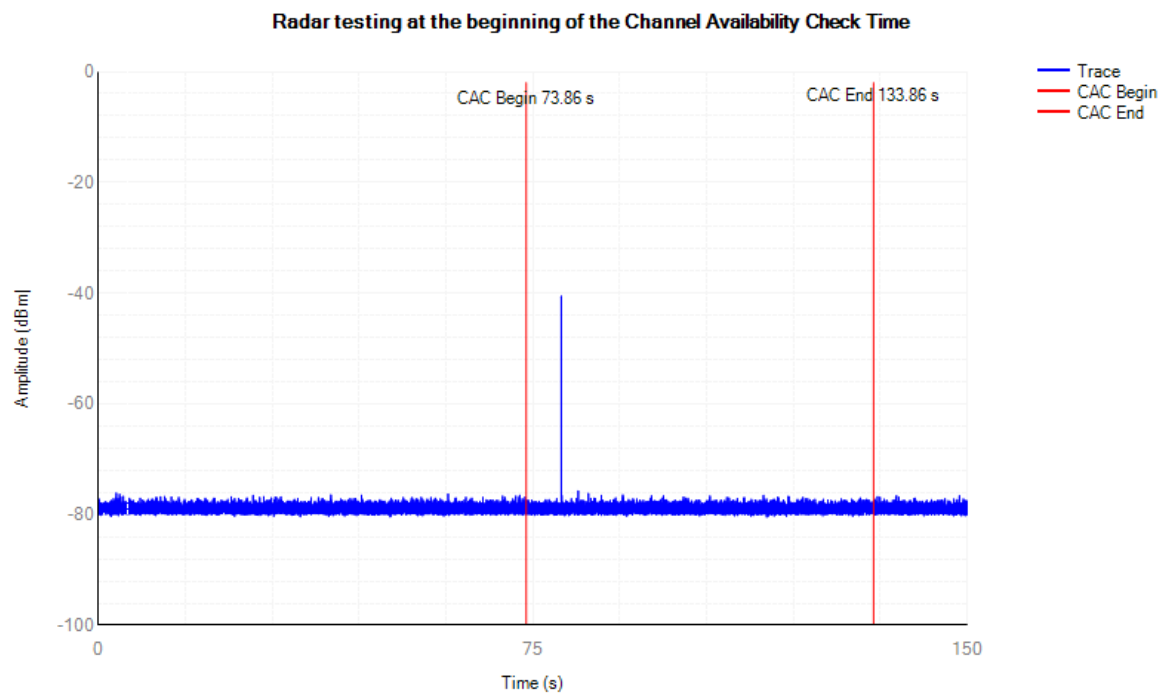
Radar Burst at the End of the Channel Availability Check Time



IEEE 802.11ac VHT80 5290MHz Mode
Initial Channel Availability Check Time

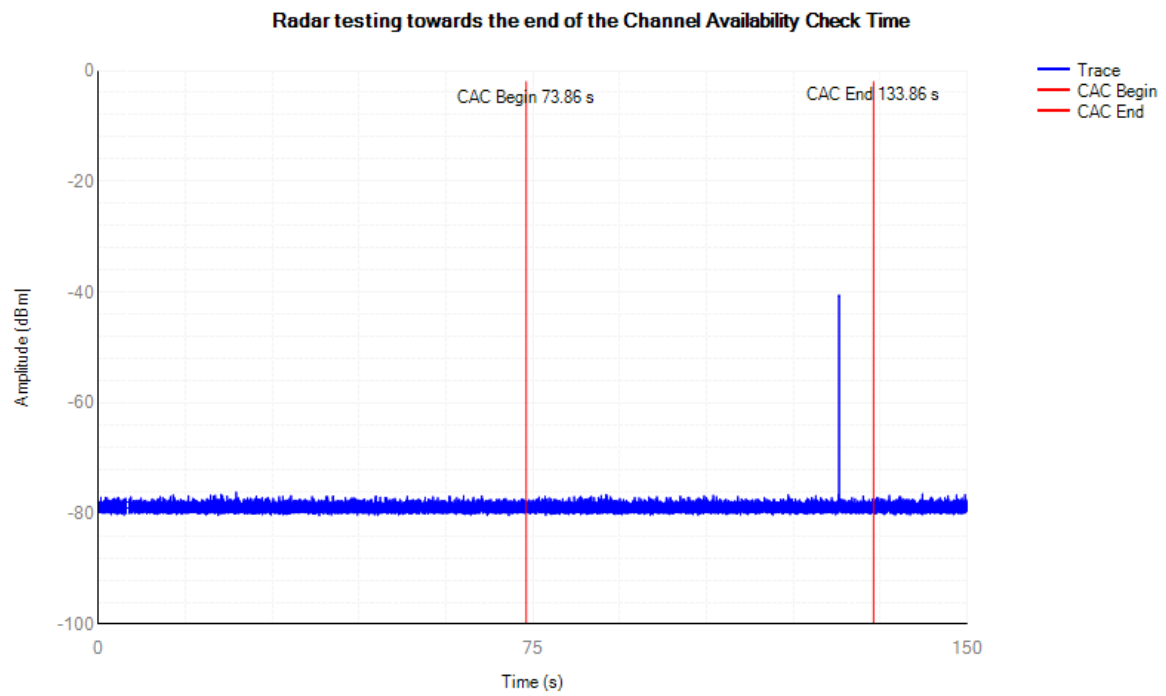


IEEE 802.11ac VHT80 5290MHz Mode
Radar Burst at the Beginning of the Channel Availability Check Time

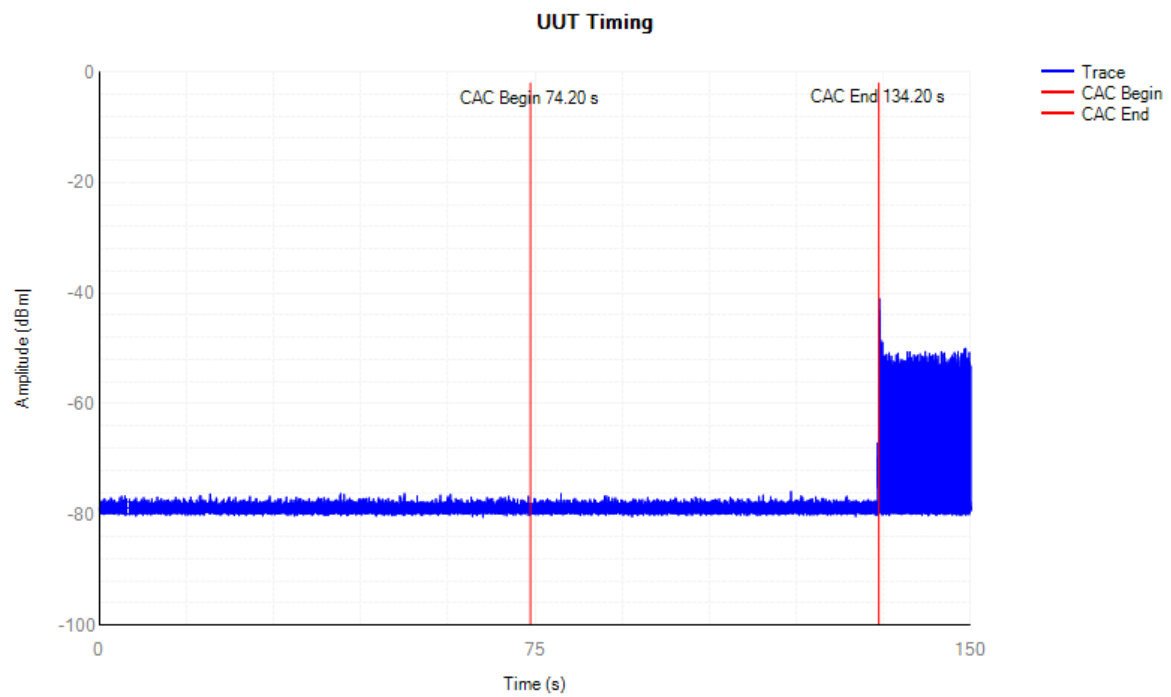


IEEE 802.11ac VHT80 5290MHz Mode

Radar Burst at the End of the Channel Availability Check Time

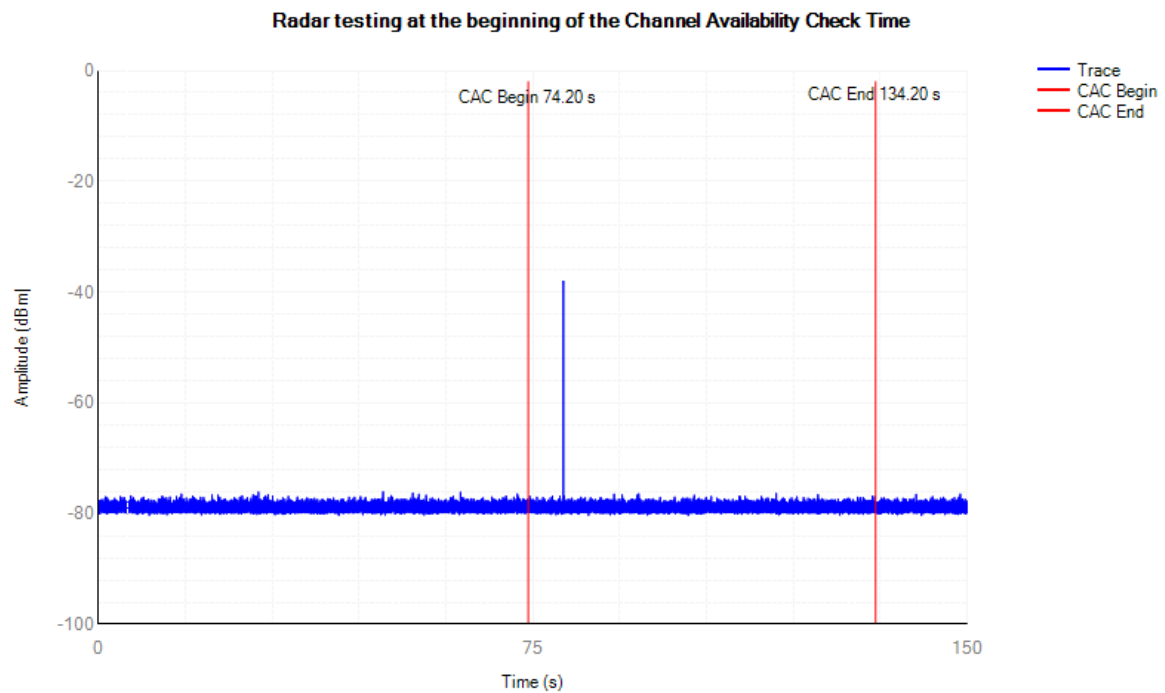
**IEEE 802.11ax HE160 5250MHz Mode**

Initial Channel Availability Check Time

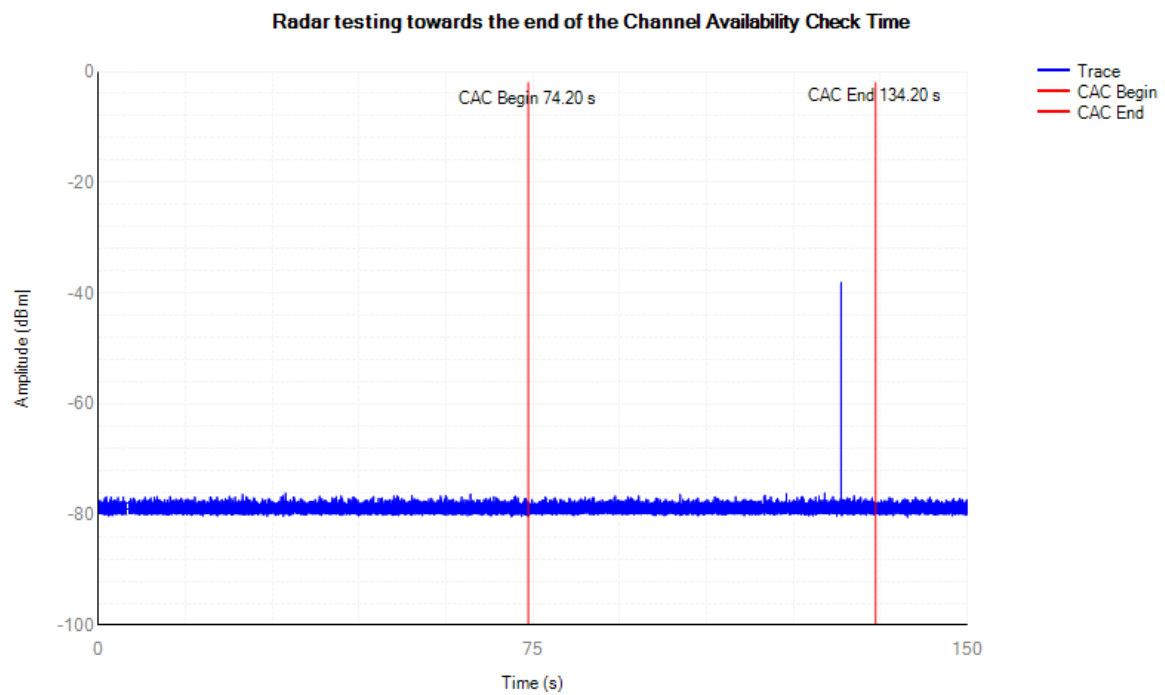


IEEE 802.11ax HE160 5250MHz Mode

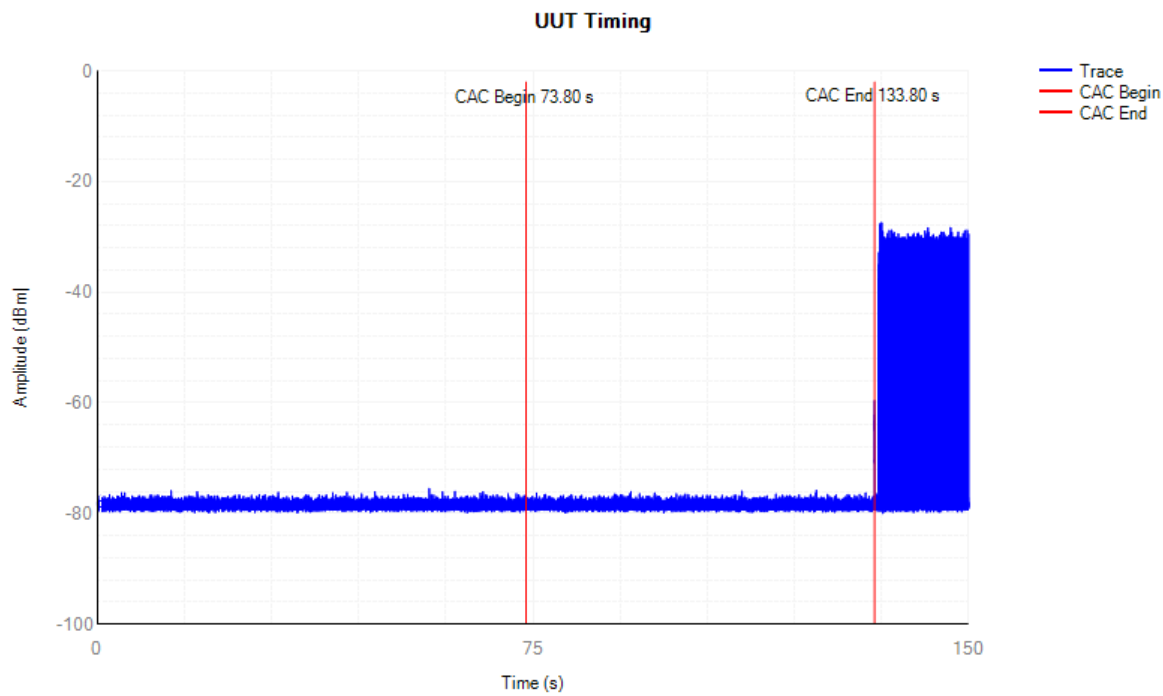
Radar Burst at the Beginning of the Channel Availability Check Time

**IEEE 802.11ax HE160 5250MHz Mode**

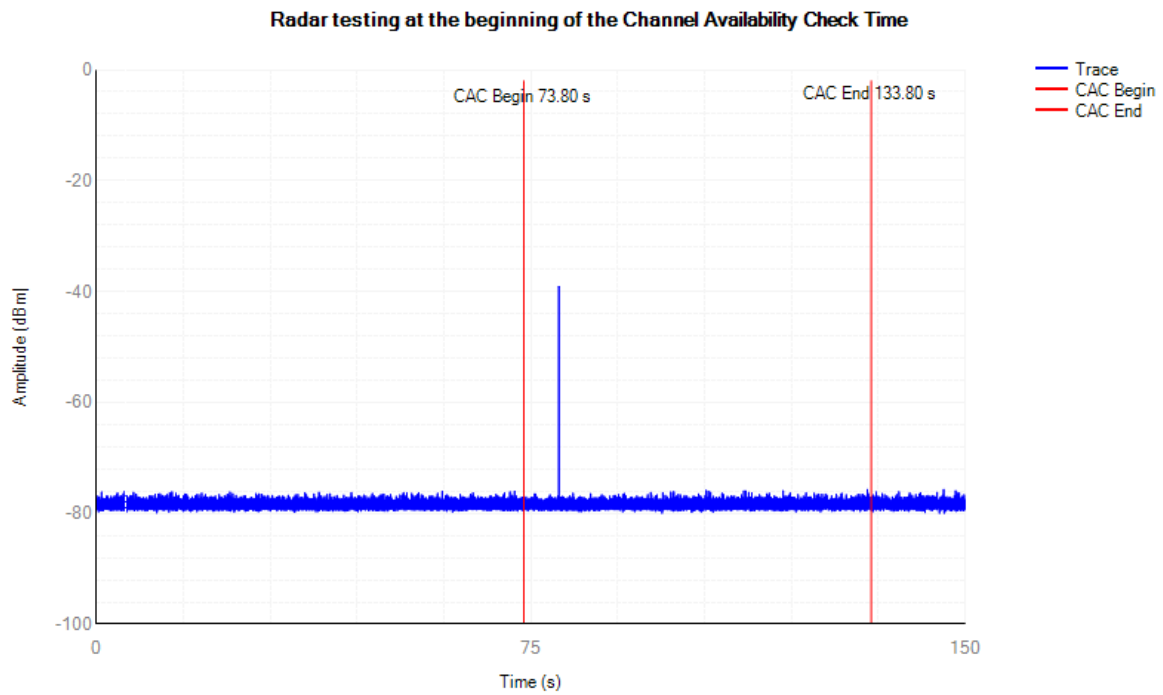
Radar Burst at the End of the Channel Availability Check Time



IEEE 802.11a 5500MHz Mode
Initial Channel Availability Check Time

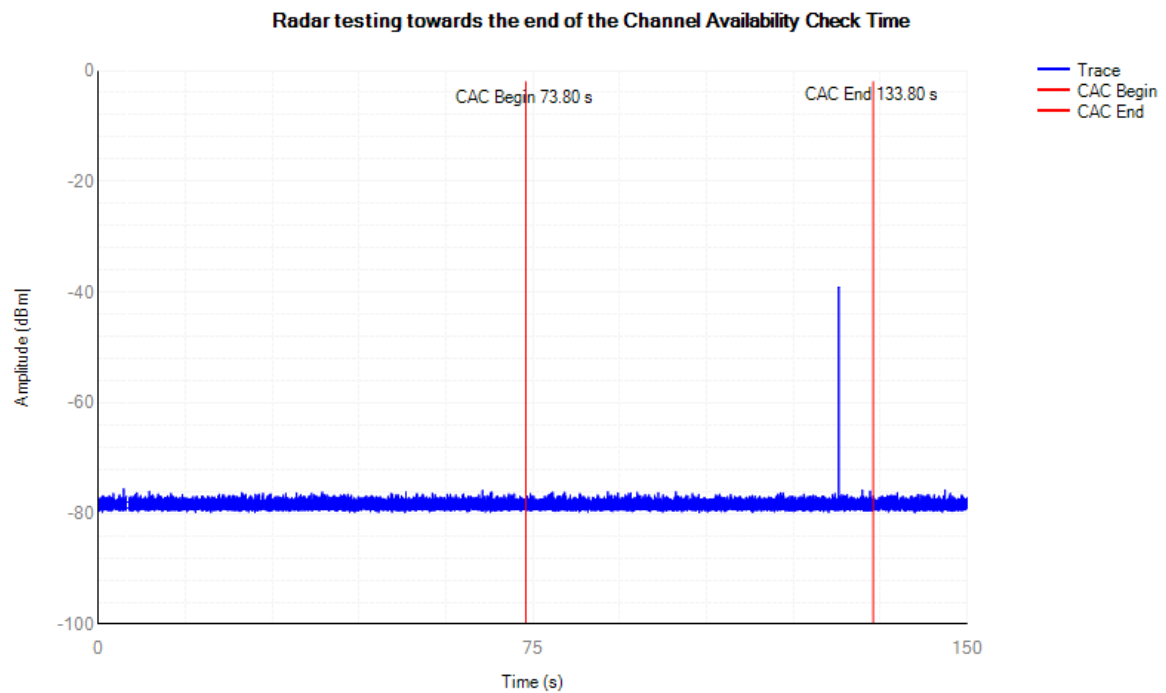


IEEE 802.11a 5500MHz Mode
Radar Burst at the Beginning of the Channel Availability Check Time

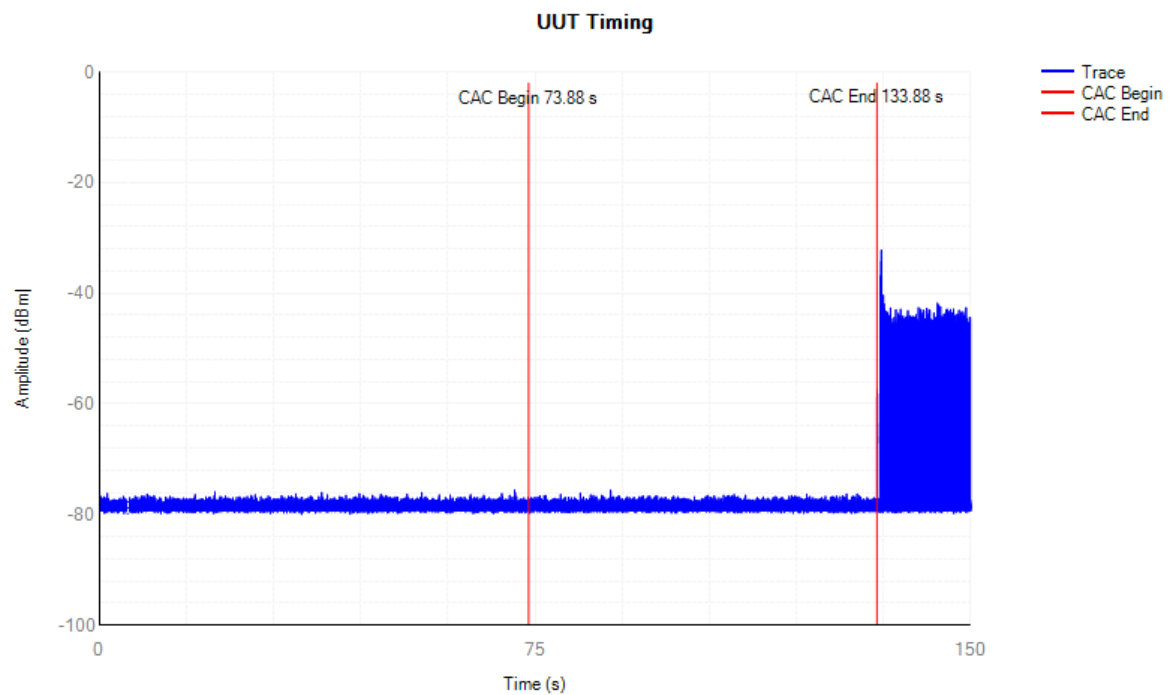


IEEE 802.11a 5500MHz Mode

Radar Burst at the End of the Channel Availability Check Time

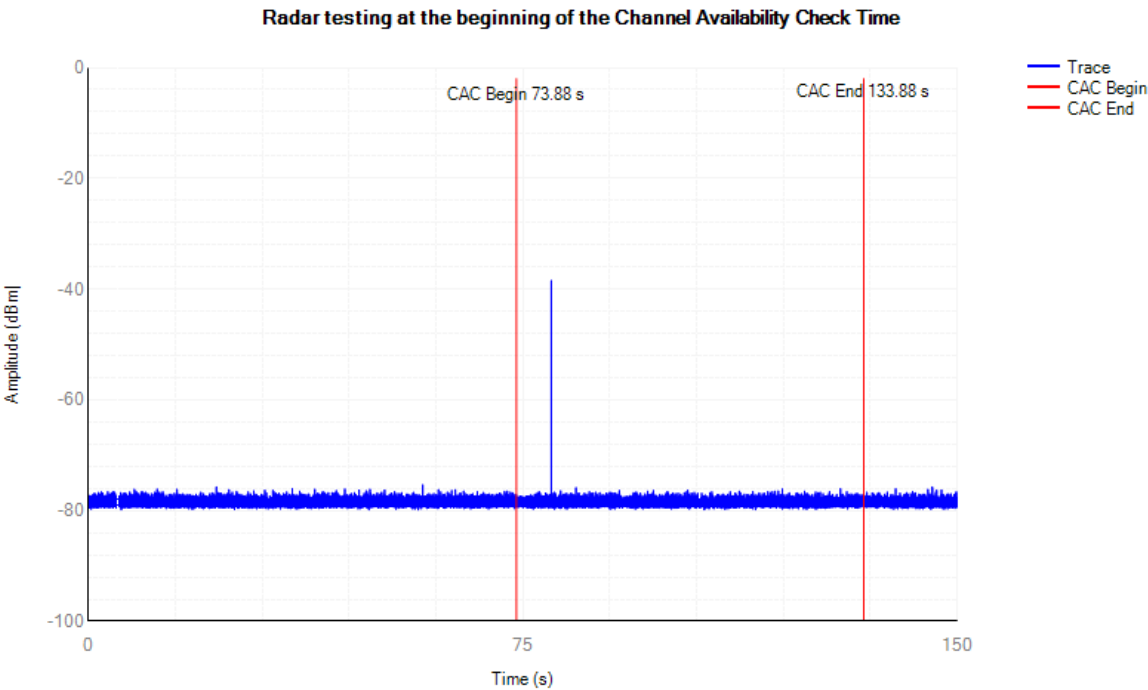
**IEEE 802.11n HT40 5510MHz Mode**

Initial Channel Availability Check Time



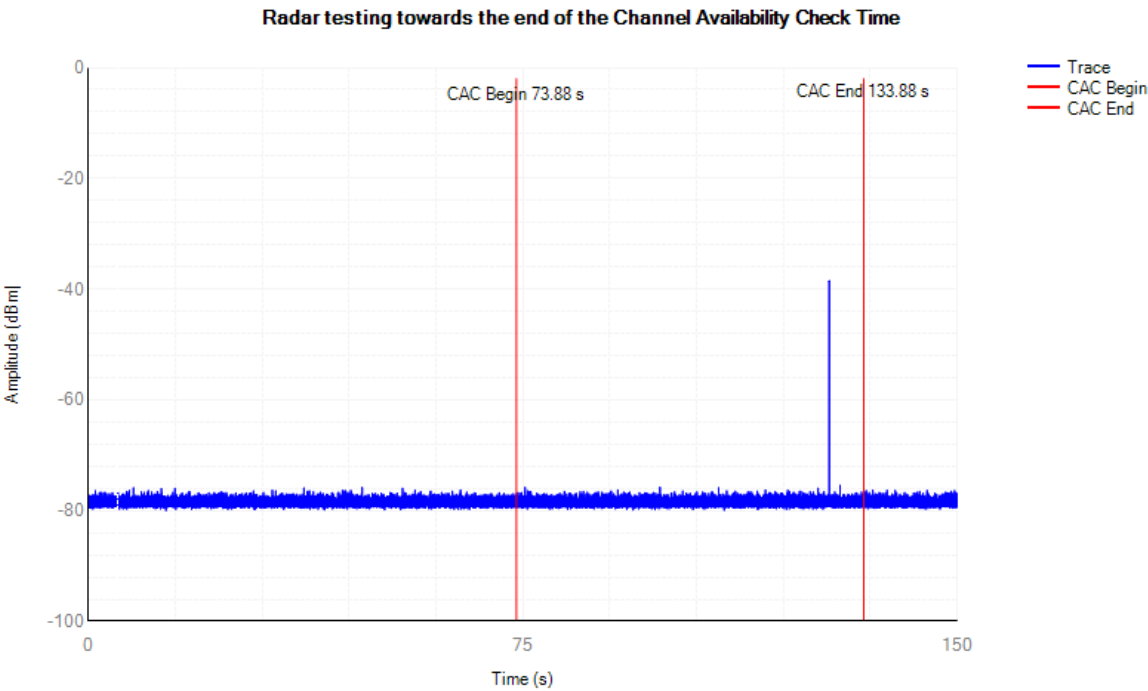
IEEE 802.11n HT40 5510MHz Mode

Radar Burst at the Beginning of the Channel Availability Check Time

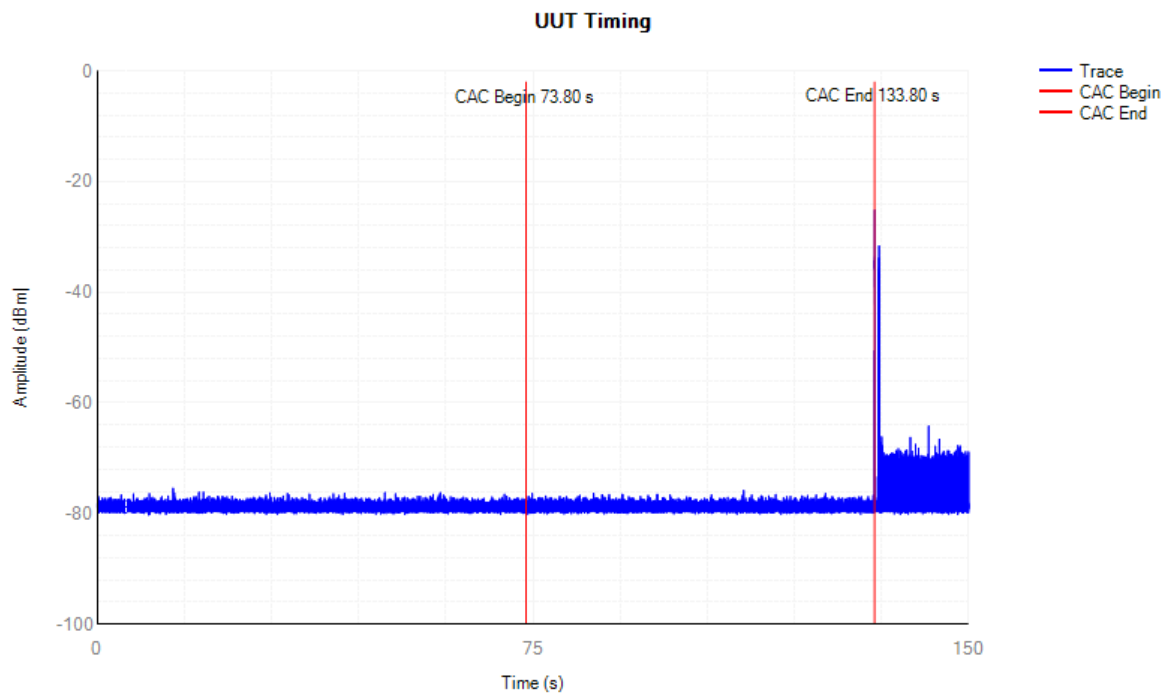


IEEE 802.11n HT40 5510MHz Mode

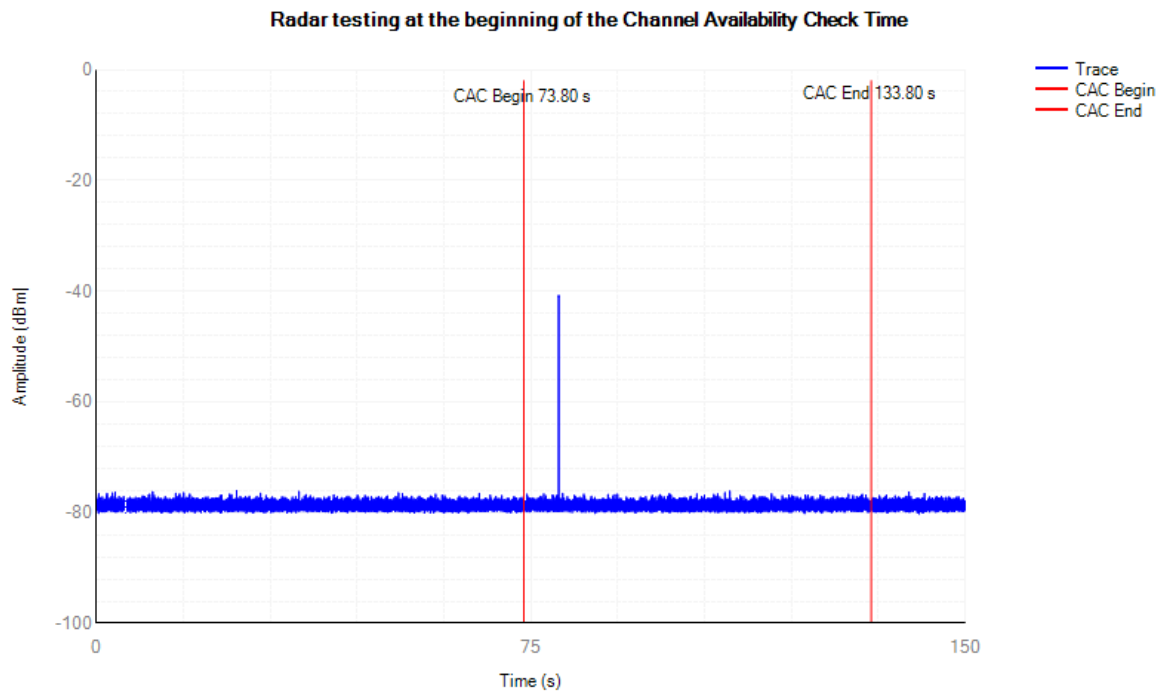
Radar Burst at the End of the Channel Availability Check Time



IEEE 802.11ac VHT80 5530MHz Mode
Initial Channel Availability Check Time

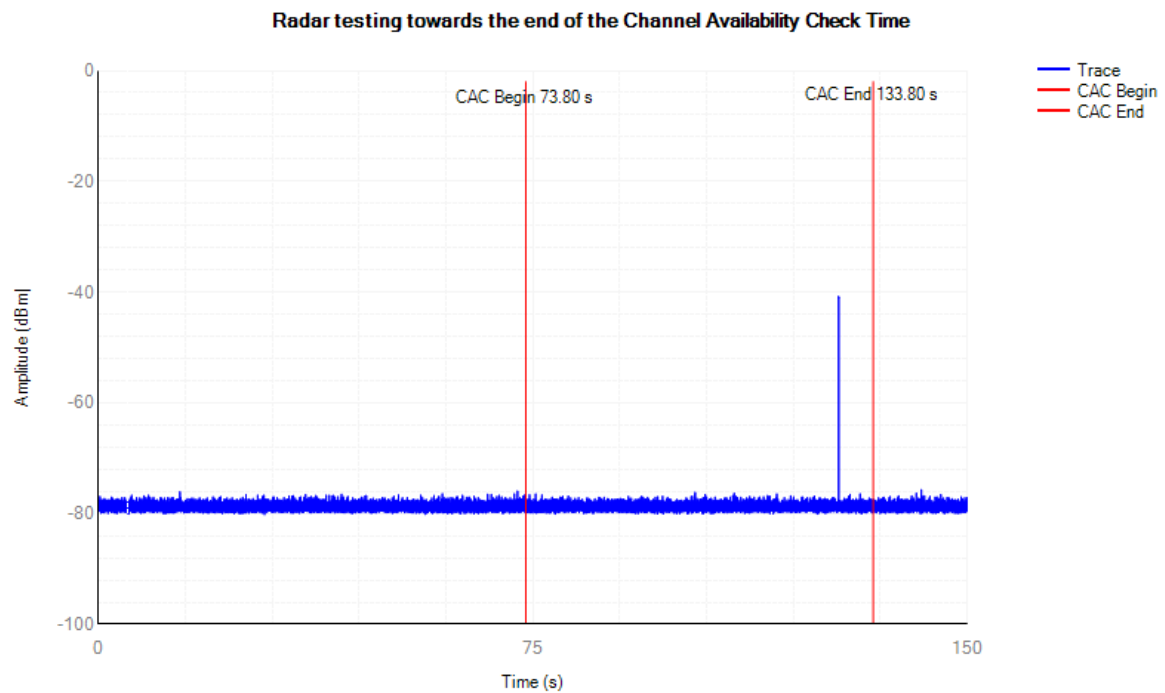


IEEE 802.11ac VHT80 5530MHz Mode
Radar Burst at the Beginning of the Channel Availability Check Time

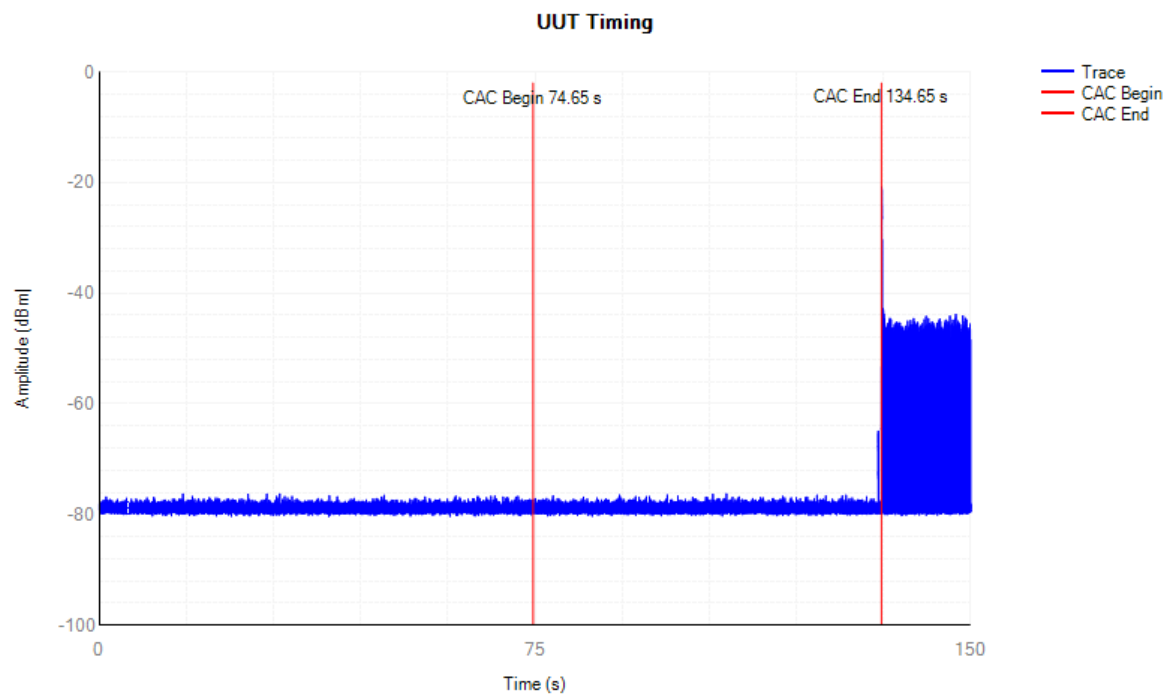


IEEE 802.11ac VHT80 5530MHz Mode

Radar Burst at the End of the Channel Availability Check Time

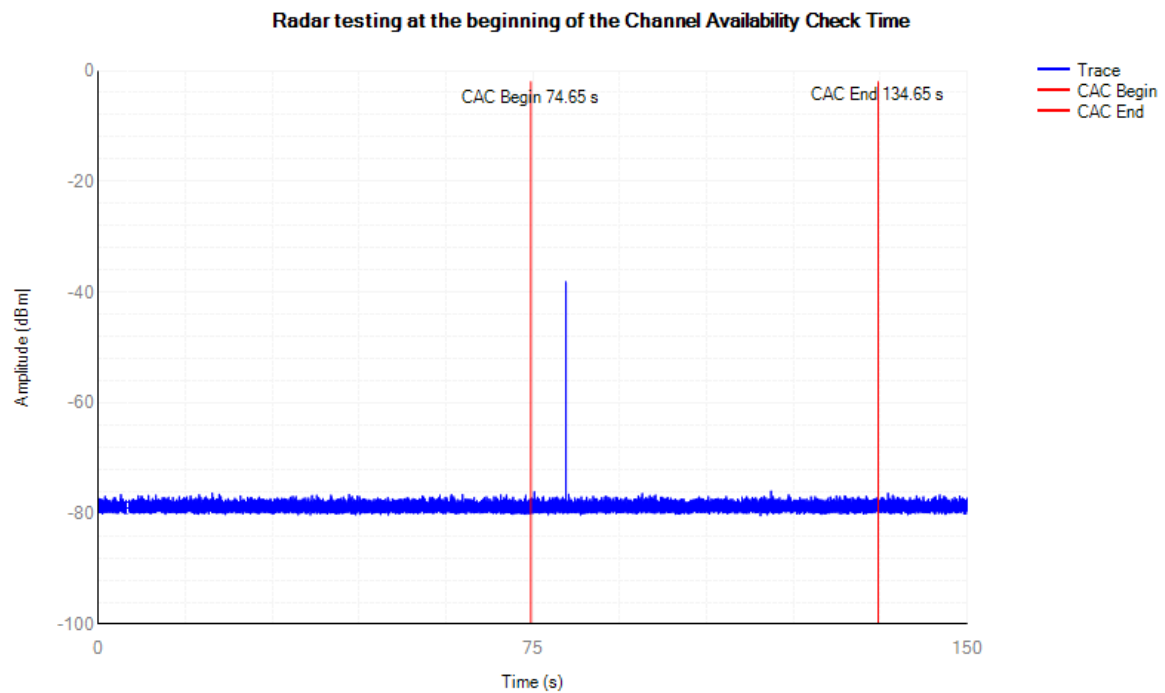
**IEEE 802.11ax HE160 5570MHz Mode**

Initial Channel Availability Check Time

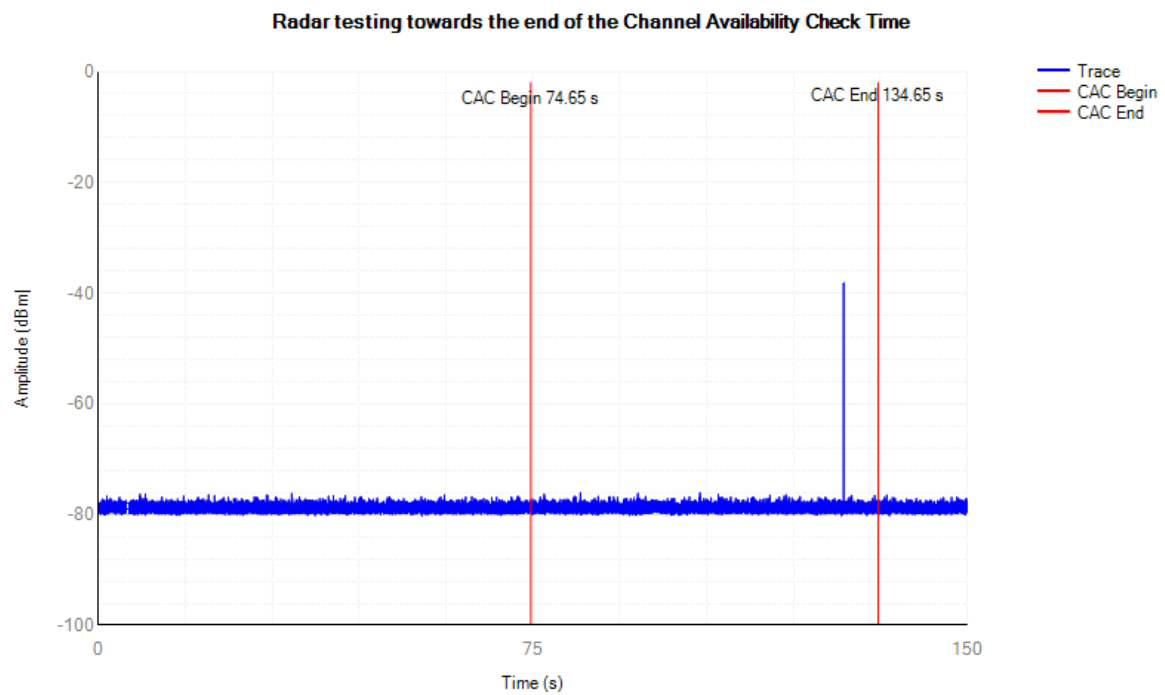


IEEE 802.11ax HE160 5570MHz Mode

Radar Burst at the Beginning of the Channel Availability Check Time

**IEEE 802.11ax HE160 5570MHz Mode**

Radar Burst at the End of the Channel Availability Check Time

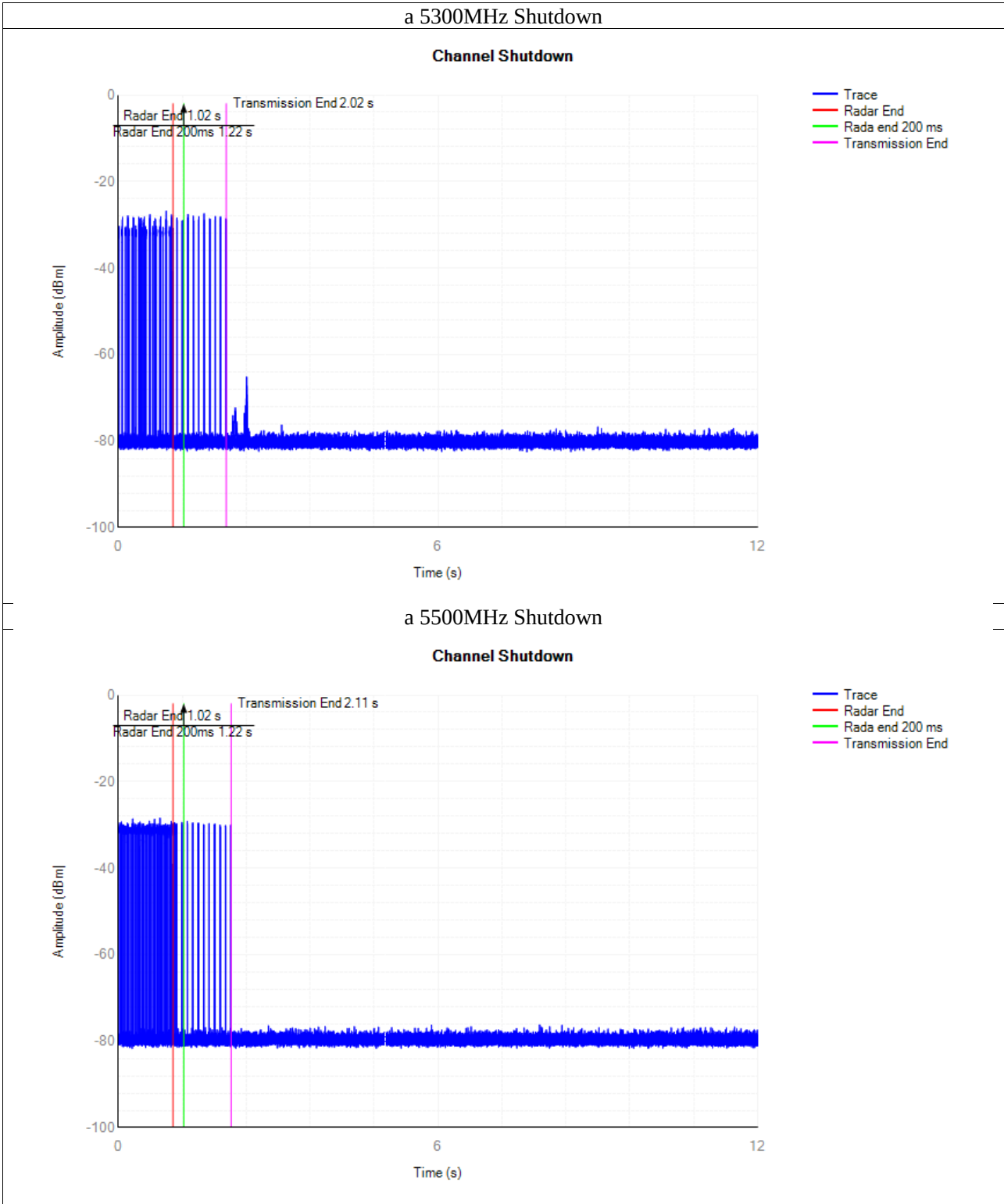


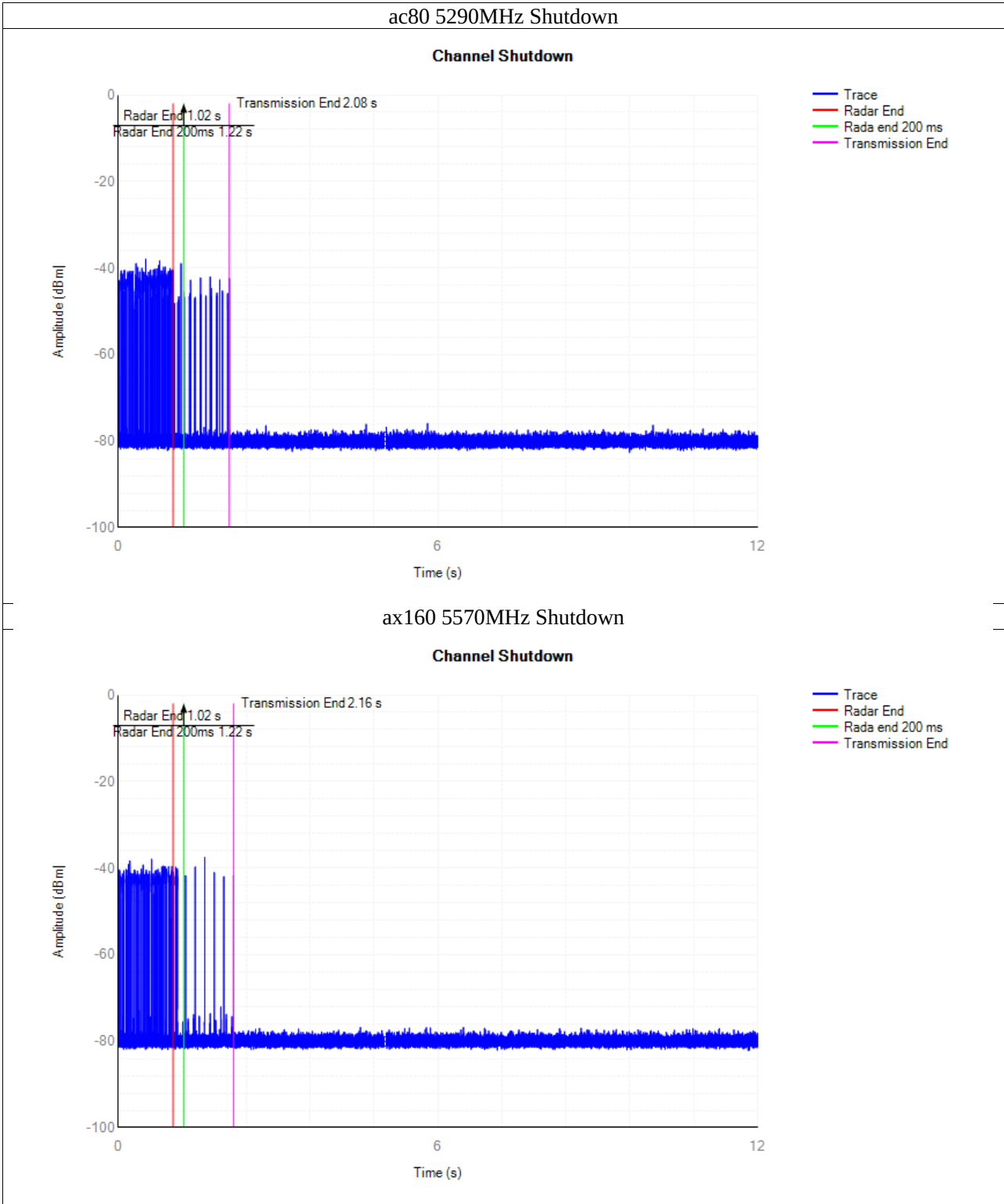
----- The following blanks -----

7.4 CHANNEL MOVE TIME&CHANNEL CLOSE TRANSMISSION TIME TEST RESULT

Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Close Transmission Time after 200ms(s)	Limit Close Transmission Time after 200ms (s)	Verdict
a	5300	0.9981	10	0.0188	0.26	0.0128	0.06	Pass
a	5500	1.0905	10	0.0408	0.26	0.0144	0.06	Pass
ac80	5290	1.0549	10	0.0216	0.26	0.0168	0.06	Pass
11ax160	5570	1.1361	10	0.0172	0.26	0.0044	0.06	Pass

----- The following blanks -----





7.5 STATISTICAL PERFORMANCE CHECK

IEEE 802.11a 5320MHz

Table 1: Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Pass times	Fail times	Percentage of Successful Detection (%)
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 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A	$\text{Roundup} \left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	29	1	97
2	1-5	150-230	23-29	30	0	100
3	6-10	200-500	16-18	29	1	97
4	11-20	200-500	12-16	30	0	100
Aggregate (Radar Types 1-4)			-	118	2	98

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses Per Burst	Number of Bursts	Pass times	Fail times	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	28	2	93

Table 3: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Pass times	Fail times	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	29	1	97

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type1	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	NO	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES
Type2	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

Type3	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	NO
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES
Type4	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

----- The following blanks -----

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type5	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	NO
	5	NO	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type6	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	NO	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

IEEE 802.11n HT40 5310MHz

Table 1: Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Pass times	Fail times	Percentage of Successful Detection (%)
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 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A	$\text{Roundup} \left\{ \left(\frac{1}{360} \right), \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	30	0	100
2	1-5	150-230	23-29	30	0	100
3	6-10	200-500	16-18	30	0	100
4	11-20	200-500	12-16	30	0	100
Aggregate (Radar Types 1-4)			-	120	0	100

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses Per Burst	Number of Bursts	Pass times	Fail times	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	29	1	97

Table 3: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Pass times	Fail times	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	30	0	100

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type1	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES
Type2	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES
Type3	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES

	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES
Type4	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type5	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	NO
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type6	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

----- The following blanks -----

IEEE 802.11ac VHT80 5290MHz

Table 1: Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Pass times	Fail times	Percentage of Successful Detection (%)
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 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A	$\text{Roundup} \left\{ \left(\frac{1}{360} \right), \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	30	0	100
2	1-5	150-230	23-29	29	1	97
3	6-10	200-500	16-18	29	1	97
4	11-20	200-500	12-16	28	2	93
Aggregate (Radar Types 1-4)			-	116	4	97

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses Per Burst	Number of Bursts	Pass times	Fail times	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	30	0	100

Table 3: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Pass times	Fail times	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	29	1	97

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type1	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES
Type2	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	NO
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES
Type3	1	YES	16	NO
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES

	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES
Type4	1	YES	16	YES
	2	NO	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	NO
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type5	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type6	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	NO	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

IEEE 802.11ax HE160 5250MHz

Table 1: Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Pass times	Fail times	Percentage of Successful Detection (%)
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 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A	$\text{Roundup} \left\{ \left(\frac{1}{360} \right), \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	28	2	93
2	1-5	150-230	23-29	27	3	90
3	6-10	200-500	16-18	27	3	90
4	11-20	200-500	12-16	30	0	100
Aggregate (Radar Types 1-4)			-	112	8	93

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses Per Burst	Number of Bursts	Pass times	Fail times	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	26	4	87

Table 3: Frequency Hopping Radar Test Waveform

Rad ar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Pass times	Fail times	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	28	2	93

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type1	1	YES	16	YES
	2	NO	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	NO	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES
Type2	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	NO
	5	YES	20	NO
	6	YES	21	YES
	7	NO	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES
Type3	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	NO
	5	YES	20	YES
	6	YES	21	YES

	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	NO
	10	NO	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES
Type4	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type5	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	NO	19	YES
	5	NO	20	YES
	6	YES	21	YES
	7	YES	22	NO
	8	YES	23	NO
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES

	15	YES	30	YES
--	----	-----	----	-----

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type6	1	YES	16	YES
	2	NO	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	NO	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

----- The following blanks -----

IEEE 802.11a 5500MHz

Table 1: Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Pass times	Fail times	Percentage of Successful Detection (%)
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 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	$\text{Roundup} \left\{ \begin{array}{l} \left(\frac{1}{360} \right) \cdot \\ \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \end{array} \right\}$	30	0	100
2	1-5	150-230	23-29	30	0	100
3	6-10	200-500	16-18	30	0	100
4	11-20	200-500	12-16	27	3	90
Aggregate (Radar Types 1-4)			-	117	3	98

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses Per Burst	Number of Bursts	Pass times	Fail times	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	29	1	97

Table 3: Frequency Hopping Radar Test Waveform

Rad ar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Pass times	Fail times	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	29	1	97

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type1	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES
Type2	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

Type3	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES
Type4	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	NO
	4	YES	19	YES
	5	NO	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	NO
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

----- The following blanks -----

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type5	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	NO
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type6	1	YES	16	YES
	2	YES	17	YES
	3	NO	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

IEEE 802.11n HT40 5510MHz

Table 1: Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Pass times	Fail times	Percentage of Successful Detection (%)
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 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	$\text{Roundup} \left\{ \left(\frac{1}{360} \right), \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	30	0	100
2	1-5	150-230	23-29	29	1	97
3	6-10	200-500	16-18	29	1	97
4	11-20	200-500	12-16	30	0	100
Aggregate (Radar Types 1-4)			-	118	2	98

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses Per Burst	Number of Bursts	Pass times	Fail times	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	28	2	93

Table 3: Frequency Hopping Radar Test Waveform

Rad ar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Pass times	Fail times	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	30	0	100

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type1	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES
Type2	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	NO
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

Type3	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	NO	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES
Type4	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

----- The following blanks -----

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type5	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	NO	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	NO
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type6	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

IEEE 802.11ac VHT80 5530MHz

Table 1: Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Pass times	Fail times	Percentage of Successful Detection (%)
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 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	$\text{Roundup} \left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	28	2	93
2	1-5	150-230	23-29	30	0	100
3	6-10	200-500	16-18	30	0	100
4	11-20	200-500	12-16	30	0	100
Aggregate (Radar Types 1-4)			-	118	2	98

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses Per Burst	Number of Bursts	Pass times	Fail times	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	30	0	100

Table 3: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Pass times	Fail times	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	30	0	100

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type1	1	YES	16	YES
	2	YES	17	YES
	3	NO	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	NO	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES
Type2	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

Type3	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES
Type4	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type5	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type6	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

IEEE 802.11ax HE160 5570MHz

Table 1: Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Pass times	Fail times	Percentage of Successful Detection (%)
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 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A	$\text{Roundup} \left\{ \left(\frac{1}{360} \right), \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	29	1	97
2	1-5	150-230	23-29	26	4	87
3	6-10	200-500	16-18	30	0	100
4	11-20	200-500	12-16	30	0	100
Aggregate (Radar Types 1-4)			-	115	5	96

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses Per Burst	Number of Bursts	Pass times	Fail times	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	29	1	97

Table 3: Frequency Hopping Radar Test Waveform

Rad ar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Pass times	Fail times	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	30	0	100

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type1	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	NO
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES
Type2	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	NO	22	YES
	8	YES	23	YES
	9	NO	24	YES
	10	YES	25	YES
	11	NO	26	YES
	12	YES	27	YES
	13	NO	28	YES
	14	YES	29	YES
	15	YES	30	YES

Type3	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES
Type4	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

----- The following blanks -----

Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type5	1	YES	16	YES
	2	YES	17	NO
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

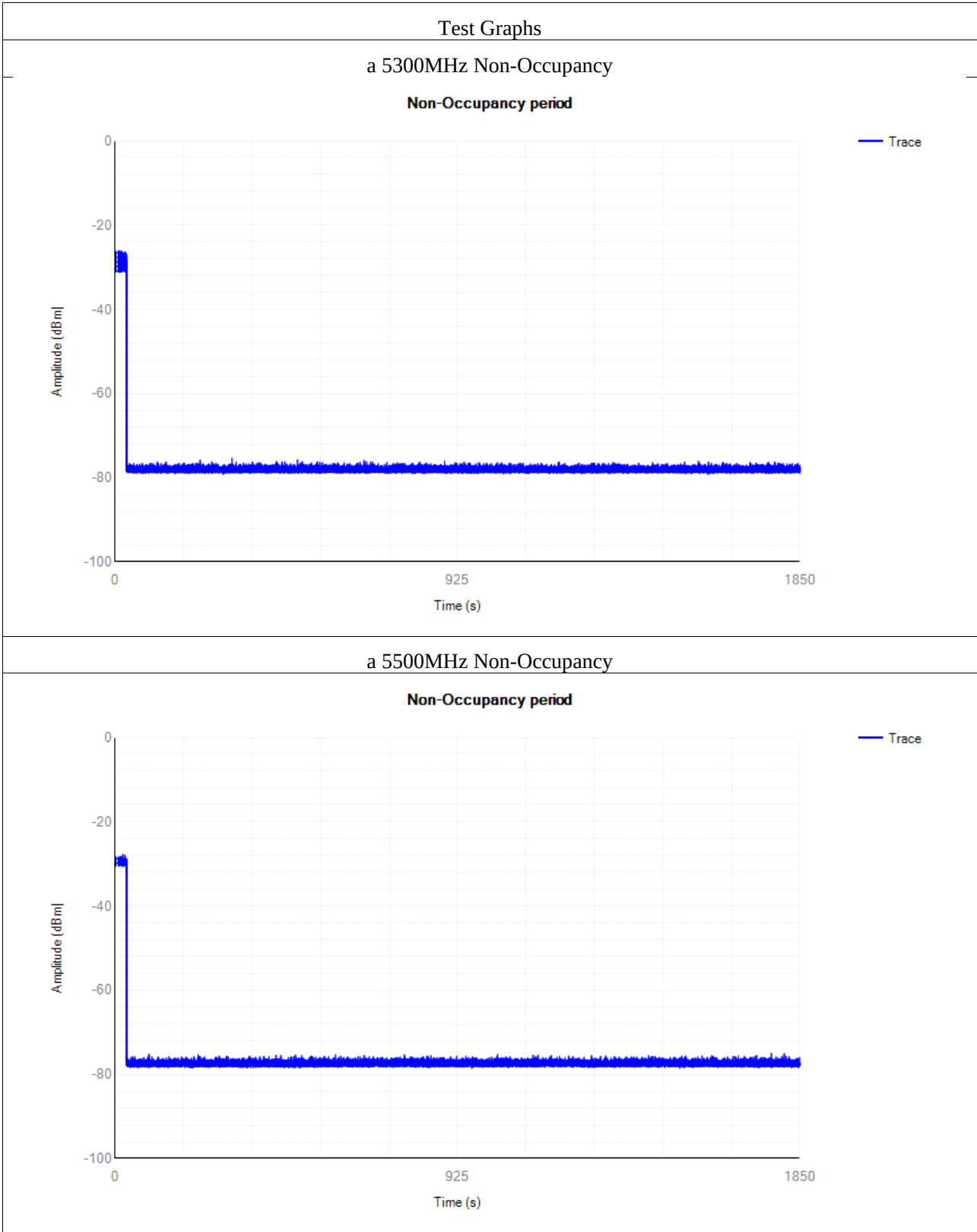
Radar type	Trial #	Detection	Trial #	Detection
		YES / NO		YES / NO
Type6	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
	15	YES	30	YES

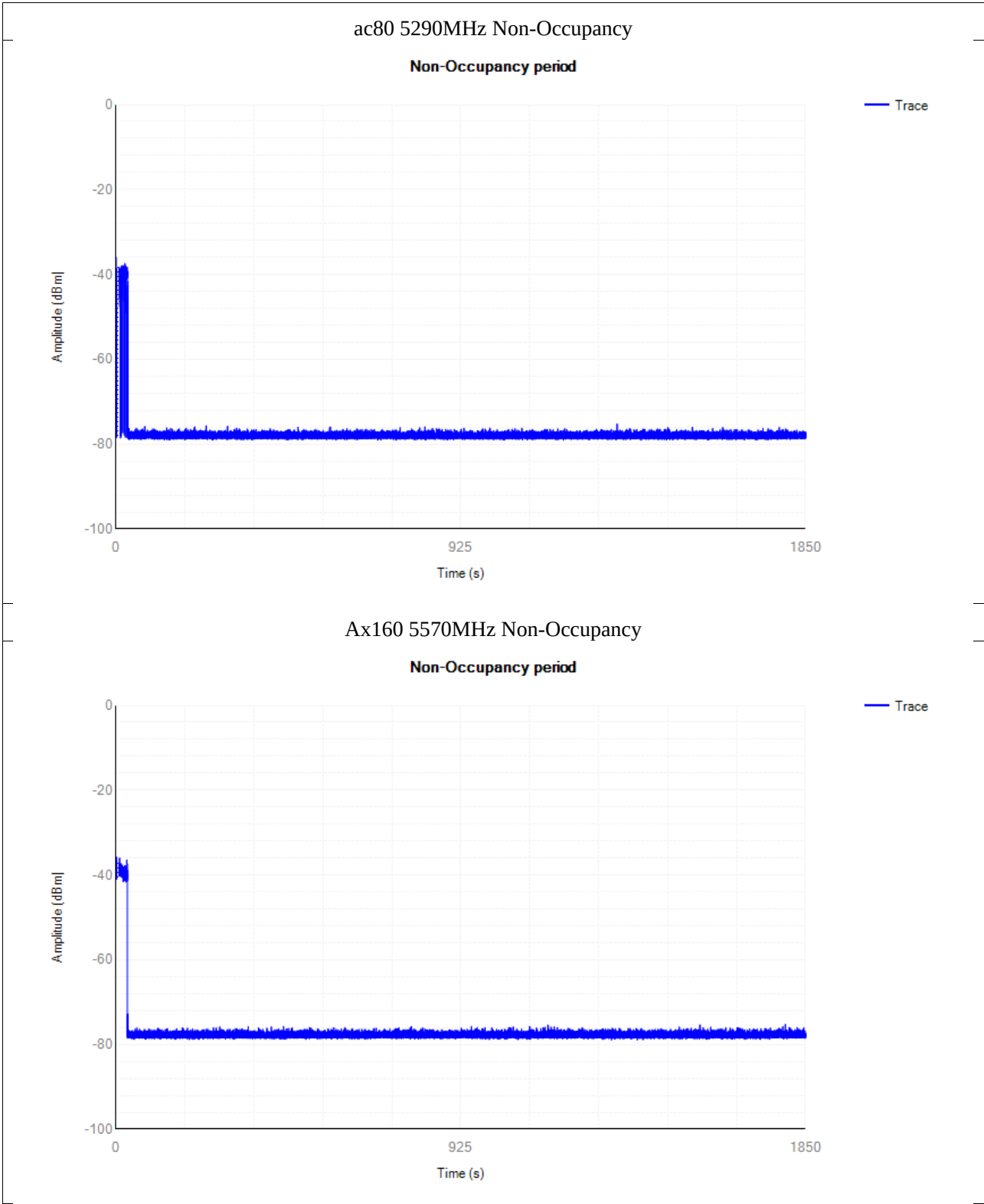
7.6 NON-OCCUPANCY PERIOD TEST RESULT

During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.

Mode	Frequency (MHz)	Result	Verdict
a	5300	See test Graph	Pass
a	5500	See test Graph	Pass
ac80	5290	See test Graph	Pass
ax160	5570	See test Graph	Pass

----- The following blanks -----



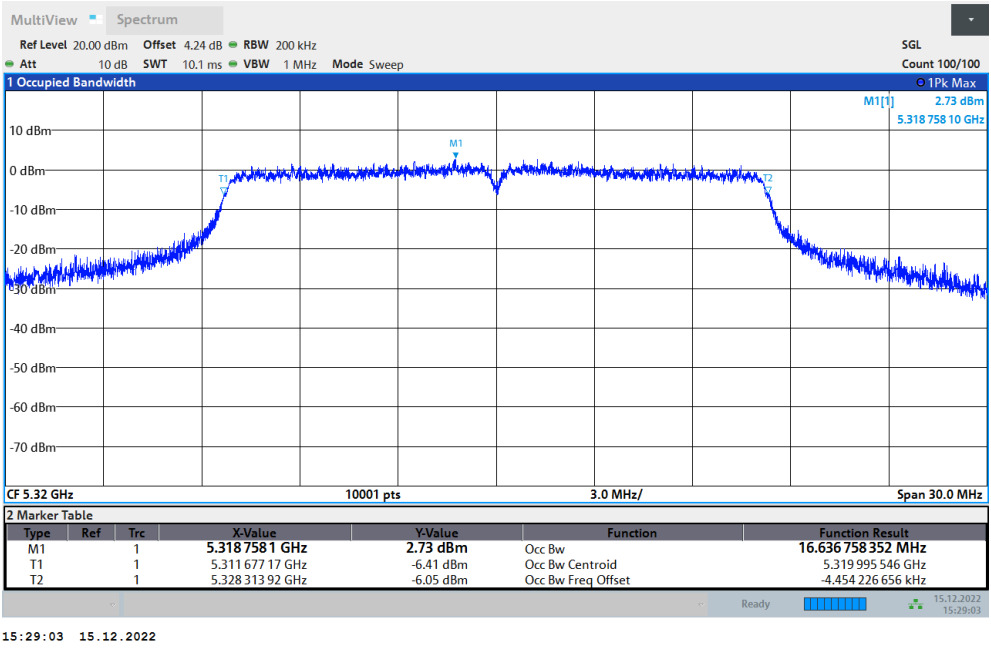


7.7 U-NII DETECTION BANDWIDTH TEST RESULT

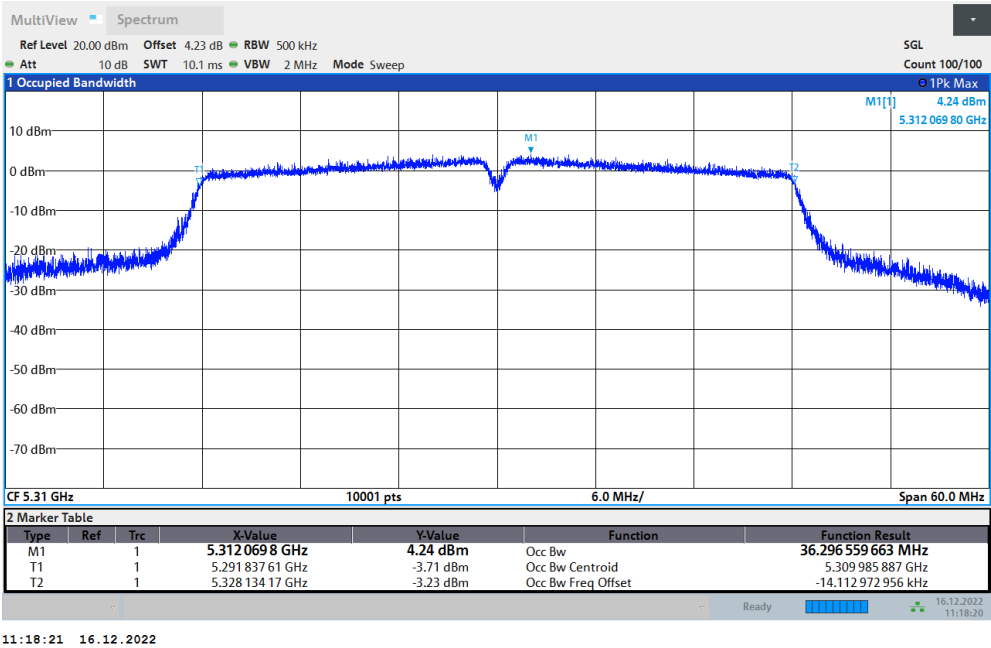
Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
802.11a	5320	Ant1	16.637
802.11 n40	5310	Ant1	36.297
802.11 ac80	5290	Ant1	75.38
802.11 ax160	5250	Ant1	155.26
802.11 a	5500	Ant1	16.634
802.11 n40	5510	Ant1	36.311
802.11 ac80	5530	Ant1	75.353
802.11ax160	5570	Ant1	155.525

----- The following blanks -----

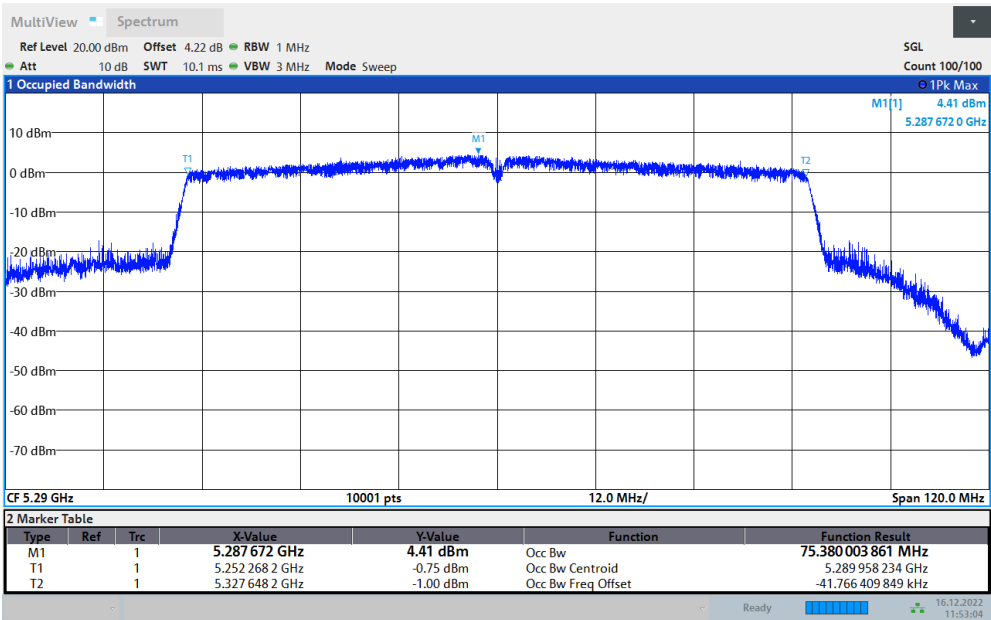
IEEE 802.11a 5320MHz
99% Channel Bandwidth



IEEE 802.11n HT40 5310MHz
99% Channel Bandwidth

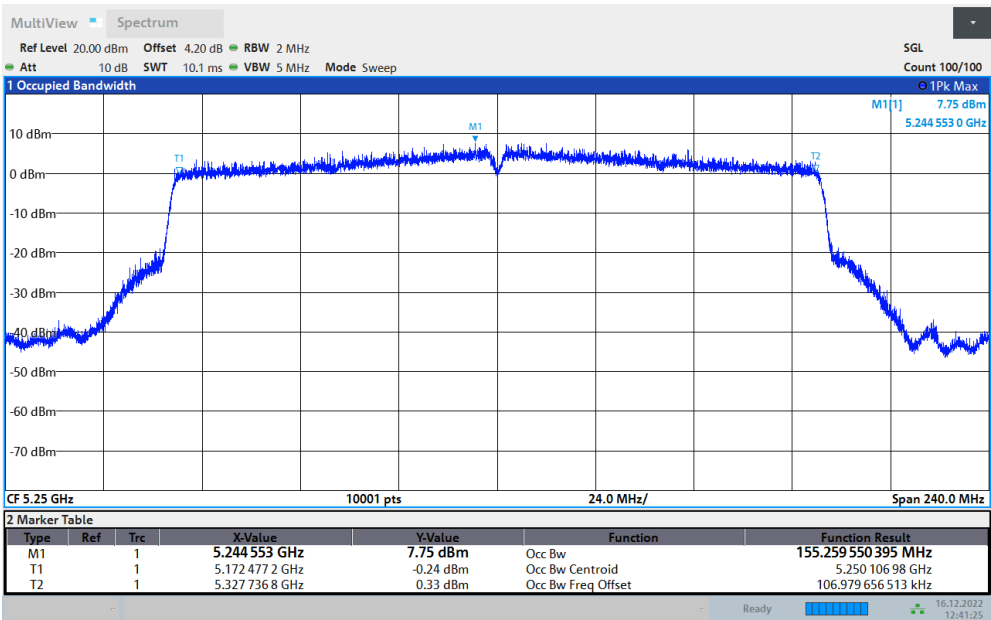


IEEE 802.11ac VHT80 5290MHz
99% Channel Bandwidth



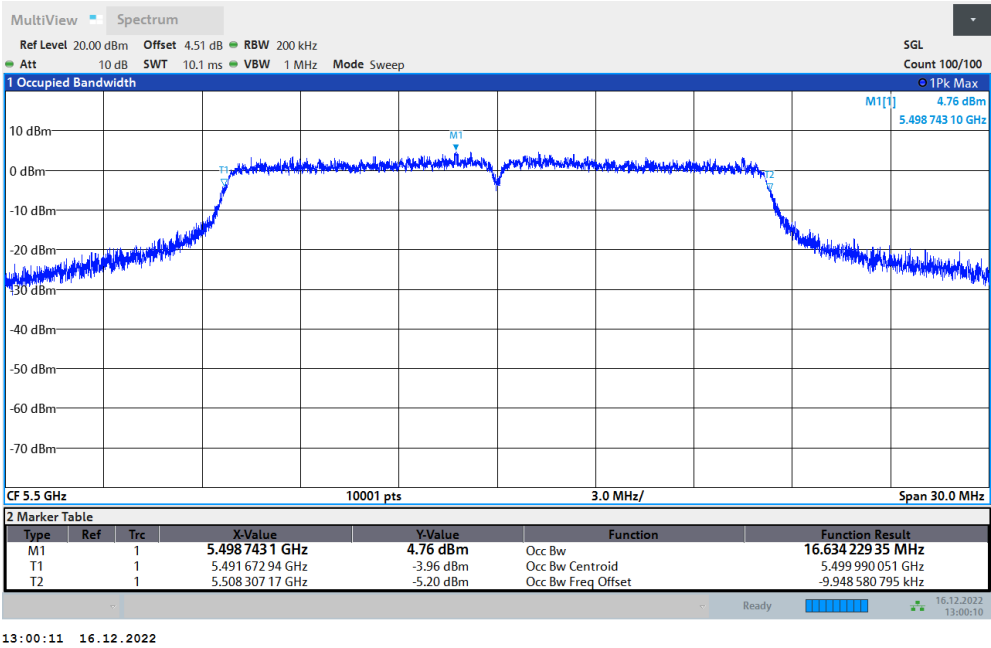
11:53:05 16.12.2022

IEEE 802.11ax HE160 5250MHz
99% Channel Bandwidth

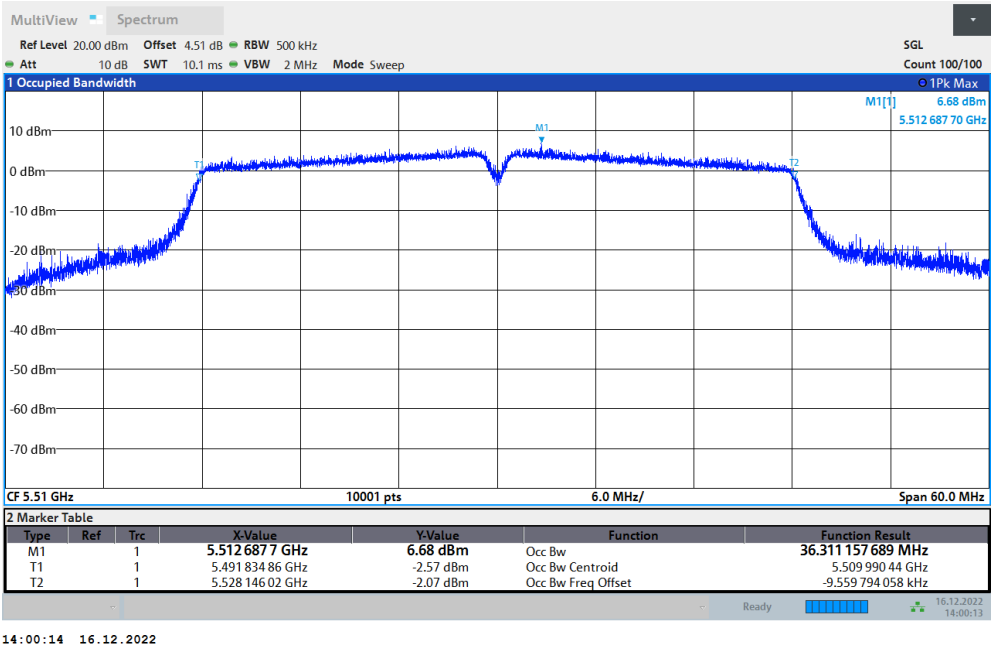


12:41:25 16.12.2022

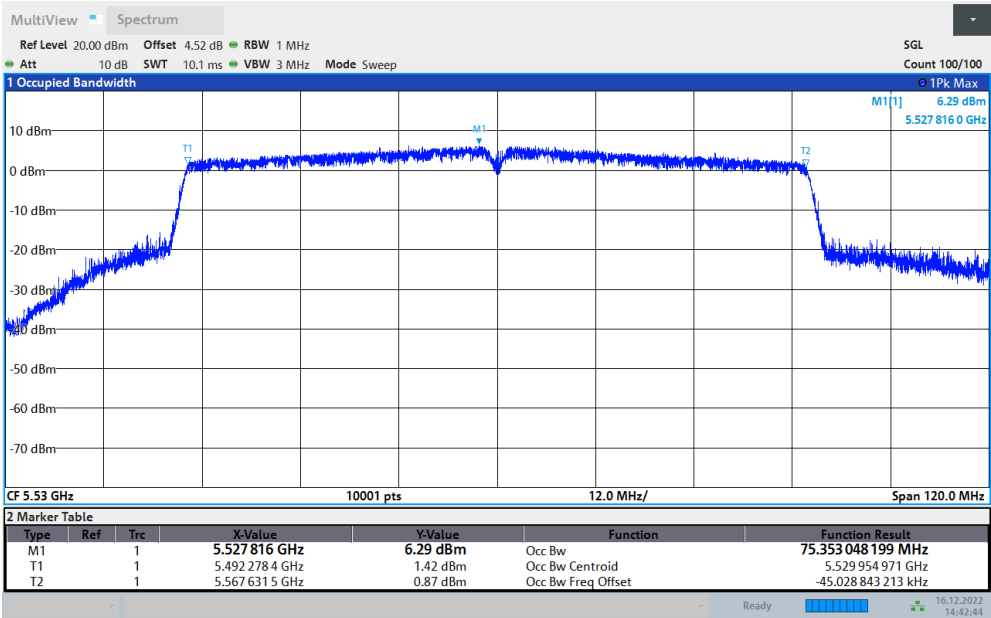
IEEE 802.11a 5500MHz
99% Channel Bandwidth



IEEE 802.11n HT40 5510MHz
99% Channel Bandwidth

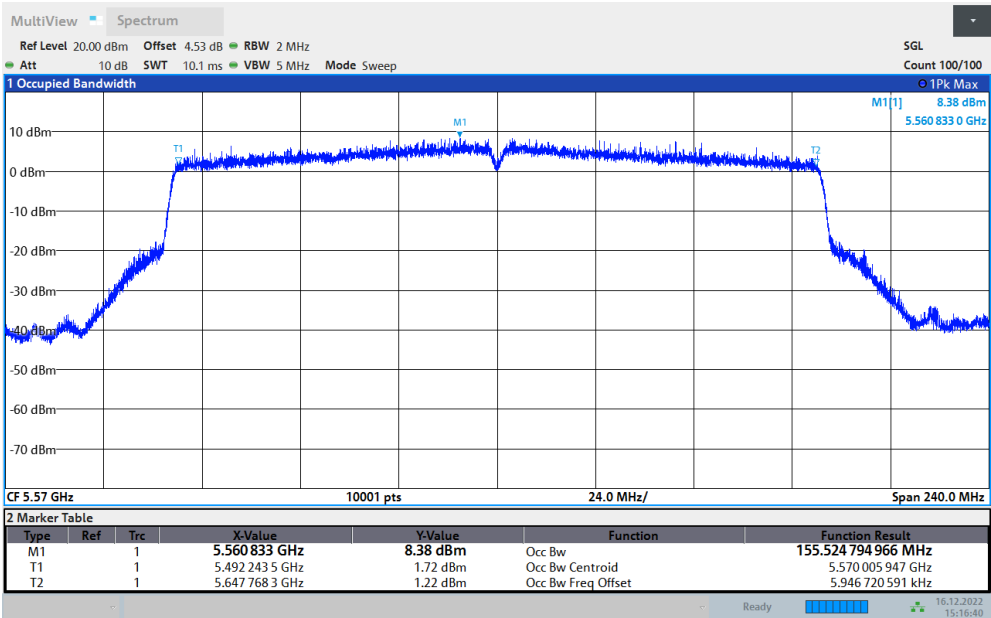


IEEE 802.11ac VHT80 5530MHz
99% Channel Bandwidth



14:42:45 16.12.2022

IEEE 802.11ax HE160 5570MHz
99% Channel Bandwidth



15:16:41 16.12.2022

IEEE 802.11A 5320MHzDetection Bandwidth = $F_H - F_L = 5331 - 5309 = 22\text{MHz}$ EUT 99% Bandwidth = **16.637** MHz (Refer to channel 64)

Test result: Pass

Mode	Frequency (MHz)	Offset (MHz)	F_H/F_L	Total No.	Detected No.	Detection Rate (%)	Limit (%)
a	5308	-12		10	4	40	90
a	5309	-11	FL	10	10	100	90
a	5310	-10		10	10	100	90
a	5311	-9		10	10	100	90
a	5312	-8		10	10	100	90
a	5313	-7		10	10	100	90
a	5314	-6		10	10	100	90
a	5315	-5		10	10	100	90
a	5316	-4		10	10	100	90
a	5317	-3		10	10	100	90
a	5318	-2		10	10	100	90
a	5319	-1		10	10	100	90
a	5320	0		10	10	100	90
a	5321	1		10	10	100	90
a	5322	2		10	10	100	90
a	5323	3		10	10	100	90
a	5324	4		10	10	100	90
a	5325	5		10	10	100	90
a	5326	6		10	10	100	90
a	5327	7		10	10	100	90
a	5328	8		10	10	100	90
a	5329	9		10	10	100	90
a	5330	10		10	10	100	90
a	5331	11	FH	10	10	100	90
a	5332	12		10	1	10	90

----- The following blanks -----

IEEE 802.11n HT40 5310MHzDetection Bandwidth = $F_H - F_L = 5331 - 5289 = 42\text{MHz}$ EUT 99% Bandwidth = **36.297** MHz (Refer to channel 62)

Test result: Pass

Mode	Frequency (MHz)	Offset (MHz)	F_H/F_L	Total No.	Detected No.	Detection Rate (%)	Limit (%)
n40	5288	-22		10	0	0	90
n40	5289	-21	FL	10	10	100	90
n40	5290	-20		10	10	100	90
n40	5291	-19		10	10	100	90
n40	5292	-18		10	10	100	90
n40	5293	-17		10	10	100	90
n40	5294	-16		10	10	100	90
n40	5295	-15		10	10	100	90
n40	5296	-14		10	10	100	90
n40	5297	-13		10	10	100	90
n40	5298	-12		10	10	100	90
n40	5299	-11		10	10	100	90
n40	5300	-10		10	10	100	90
n40	5301	-9		10	10	100	90
n40	5302	-8		10	10	100	90
n40	5303	-7		10	10	100	90
n40	5304	-6		10	10	100	90
n40	5305	-5		10	10	100	90
n40	5306	-4		10	10	100	90
n40	5307	-3		10	10	100	90
n40	5308	-2		10	10	100	90
n40	5309	-1		10	10	100	90
n40	5310	0		10	10	100	90
n40	5311	1		10	10	100	90
n40	5312	2		10	10	100	90
n40	5313	3		10	10	100	90
n40	5314	4		10	10	100	90
n40	5315	5		10	10	100	90
n40	5316	6		10	10	100	90
n40	5317	7		10	10	100	90
n40	5318	8		10	10	100	90
n40	5319	9		10	10	100	90
n40	5320	10		10	10	100	90
n40	5321	11		10	10	100	90
n40	5322	12		10	10	100	90
n40	5323	13		10	10	100	90
n40	5324	14		10	10	100	90
n40	5325	15		10	10	100	90
n40	5326	16		10	10	100	90
n40	5327	17		10	10	100	90
n40	5328	18		10	10	100	90
n40	5329	19		10	10	100	90
n40	5330	20		10	10	100	90
n40	5331	21	FH	10	10	100	90
n40	5332	22		10	0	0	90

IEEE 802.11ac VHT80 5290MHzDetection Bandwidth = $F_H - F_L = 5330 - 5250 = 80\text{MHz}$ EUT 99% Bandwidth = **75.38** MHz (Refer to channel 58)

Test result: Pass

Mode	Frequency (MHz)	Offset (MHz)	F_H/F_L	Total No.	Detected No.	Detection Rate (%)	Limit (%)
ac80	5249	-41		10	1	10	90
ac80	5250	-40	FL	10	10	100	90
ac80	5251	-39		10	10	100	90
ac80	5252	-38		10	10	100	90
ac80	5253	-37		10	10	100	90
ac80	5254	-36		10	10	100	90
ac80	5255	-35		10	10	100	90
ac80	5256	-34		10	10	100	90
ac80	5257	-33		10	10	100	90
ac80	5258	-32		10	10	100	90
ac80	5259	-31		10	10	100	90
ac80	5260	-30		10	10	100	90
ac80	5265	-25		10	10	100	90
ac80	5270	-20		10	10	100	90
ac80	5275	-15		10	10	100	90
ac80	5280	-10		10	10	100	90
ac80	5285	-5		10	10	100	90
ac80	5290	0		10	10	100	90
ac80	5295	5		10	10	100	90
ac80	5300	10		10	10	100	90
ac80	5305	15		10	10	100	90
ac80	5310	20		10	10	100	90
ac80	5315	25		10	10	100	90
ac80	5320	30		10	10	100	90
ac80	5321	31		10	10	100	90
ac80	5322	32		10	10	100	90
ac80	5323	33		10	10	100	90
ac80	5324	34		10	10	100	90
ac80	5325	35		10	10	100	90
ac80	5326	36		10	10	100	90
ac80	5327	37		10	10	100	90
ac80	5328	38		10	10	100	90
ac80	5329	39		10	10	100	90
ac80	5330	40	FH	10	10	100	90
ac80	5331	41		10	0	0	90

IEEE 802.11ax HE160 5250MHz

Detection Bandwidth = $F_H - F_L = 5330 - 5250 = 80\text{MHz}$

(160MHz channel (5250MHz) straddle between 5150~5250 and 5250~5350MHz, the DFS ability is necessary in 5250~5350MHz, therefore DFS detection bandwidth start from 5250MHz for 11ax HE160 mode.)

EUT 99% Bandwidth = **155.26** MHz (Refer to channel 50)

Test result: Pass

Mode	Frequency (MHz)	Offset (MHz)	F_H/F_L	Total No.	Detected No.	Detection Rate (%)	Limit (%)
ax160	5250	0	FL	10	10	100	90
ax160	5255	5		10	10	100	90
ax160	5260	10		10	10	100	90
ax160	5265	15		10	10	100	90
ax160	5270	20		10	10	100	90
ax160	5275	25		10	10	100	90
ax160	5280	30		10	10	100	90
ax160	5290	40		10	10	100	90
ax160	5300	50		10	10	100	90
ax160	5310	60		10	10	100	90
ax160	5320	70		10	10	100	90
ax160	5321	71		10	10	100	90
ax160	5322	72		10	10	100	90
ax160	5323	73		10	10	100	90
ax160	5324	74		10	10	100	90
ax160	5325	75		10	10	100	90
ax160	5326	76		10	10	100	90
ax160	5327	77		10	10	100	90
ax160	5328	78		10	10	100	90
ax160	5329	79		10	0	0	90
ax160	5330	80		10	10	100	90
ax160	5331	81	FH	10	10	100	90

----- The following blanks -----

IEEE 802.11A 5500MHzDetection Bandwidth = $F_H - F_L = 5511 - 5489 = 22\text{MHz}$ EUT 99% Bandwidth = **16.634MHz** (Refer to channel 100)

Test result: Pass

Mode	Frequency (MHz)	Offset (MHz)	F_H/F_L	Total No.	Detected No.	Detection Rate (%)	Limit (%)
a	5488	-12		10	0	0	90
a	5489	-11	FL	10	10	100	90
a	5490	-10		10	10	100	90
a	5491	-9		10	10	100	90
a	5492	-8		10	10	100	90
a	5493	-7		10	10	100	90
a	5494	-6		10	10	100	90
a	5495	-5		10	10	100	90
a	5496	-4		10	10	100	90
a	5497	-3		10	10	100	90
a	5498	-2		10	10	100	90
a	5499	-1		10	10	100	90
a	5500	0		10	10	100	90
a	5501	1		10	10	100	90
a	5502	2		10	10	100	90
a	5503	3		10	10	100	90
a	5504	4		10	10	100	90
a	5505	5		10	10	100	90
a	5506	6		10	10	100	90
a	5507	7		10	10	100	90
a	5508	8		10	10	100	90
a	5509	9		10	10	100	90
a	5510	10		10	10	100	90
a	5511	11	FH	10	10	100	90
a	5512	12		10	0	0	90

----- The following blanks -----

IEEE 802.11n HT40 5510MHzDetection Bandwidth = $F_H - F_L = 5531 - 5489 = 42\text{MHz}$ EUT 99% Bandwidth = **36.311** MHz (Refer to channel 102)

Test result: Pass

Mode	Frequency (MHz)	Offset (MHz)	F_H/F_L	Total No.	Detected No.	Detection Rate (%)	Limit (%)
n40	5488	-22		10	1	10	90
n40	5489	-21	FL	10	10	100	90
n40	5490	-20		10	10	100	90
n40	5491	-19		10	10	100	90
n40	5492	-18		10	10	100	90
n40	5493	-17		10	10	100	90
n40	5494	-16		10	10	100	90
n40	5495	-15		10	10	100	90
n40	5496	-14		10	10	100	90
n40	5497	-13		10	10	100	90
n40	5498	-12		10	10	100	90
n40	5499	-11		10	10	100	90
n40	5500	-10		10	10	100	90
n40	5501	-9		10	10	100	90
n40	5502	-8		10	10	100	90
n40	5503	-7		10	10	100	90
n40	5504	-6		10	10	100	90
n40	5505	-5		10	10	100	90
n40	5506	-4		10	10	100	90
n40	5507	-3		10	10	100	90
n40	5508	-2		10	10	100	90
n40	5509	-1		10	10	100	90
n40	5510	0		10	10	100	90
n40	5511	1		10	10	100	90
n40	5512	2		10	10	100	90
n40	5513	3		10	10	100	90
n40	5514	4		10	10	100	90
n40	5515	5		10	10	100	90
n40	5516	6		10	10	100	90
n40	5517	7		10	10	100	90
n40	5518	8		10	10	100	90
n40	5519	9		10	10	100	90
n40	5520	10		10	10	100	90
n40	5521	11		10	10	100	90
n40	5522	12		10	10	100	90
n40	5523	13		10	10	100	90
n40	5524	14		10	10	100	90
n40	5525	15		10	10	100	90
n40	5526	16		10	10	100	90
n40	5527	17		10	10	100	90
n40	5528	18		10	10	100	90
n40	5529	19		10	10	100	90
n40	5530	20		10	10	100	90
n40	5531	21	FH	10	10	100	90
n40	5532	22		10	1	10	90

IEEE 802.11ac VHT80 5530MHzDetection Bandwidth = $F_H - F_L = 5570 - 5490 = 80\text{MHz}$

EUT 99% Bandwidth = 75.353 MHz (Refer to channel 106)

Test result: Pass

Mode	Frequency (MHz)	Offset (MHz)	F_H/F_L	Total No.	Detected No.	Detection Rate (%)	Limit (%)
ac80	5489	-41		10	0	0	90
ac80	5490	-40	FL	10	10	100	90
ac80	5491	-39		10	10	100	90
ac80	5492	-38		10	10	100	90
ac80	5493	-37		10	10	100	90
ac80	5494	-36		10	10	100	90
ac80	5495	-35		10	10	100	90
ac80	5496	-34		10	10	100	90
ac80	5497	-33		10	10	100	90
ac80	5498	-32		10	10	100	90
ac80	5499	-31		10	10	100	90
ac80	5500	-30		10	10	100	90
ac80	5505	-25		10	10	100	90
ac80	5510	-20		10	10	100	90
ac80	5515	-15		10	10	100	90
ac80	5520	-10		10	10	100	90
ac80	5525	-5		10	10	100	90
ac80	5530	0		10	10	100	90
ac80	5535	5		10	10	100	90
ac80	5540	10		10	10	100	90
ac80	5545	15		10	10	100	90
ac80	5550	20		10	10	100	90
ac80	5555	25		10	10	100	90
ac80	5560	30		10	10	100	90
ac80	5561	31		10	10	100	90
ac80	5562	32		10	10	100	90
ac80	5563	33		10	10	100	90
ac80	5564	34		10	10	100	90
ac80	5565	35		10	10	100	90
ac80	5566	36		10	10	100	90
ac80	5567	37		10	10	100	90
ac80	5568	38		10	10	100	90
ac80	5569	39		10	10	100	90
ac80	5570	40	FH	10	10	100	90
ac80	5571	41		10	0	0	90

IEEE 802.11ax HE160 5570MHzDetection Bandwidth = $F_H - F_L = 5648 - 5492 = 156\text{MHz}$

EUT 99% Bandwidth = 155.525MHz (Refer to channel 114)

Test result: Pass

Mode	Frequency (MHz)	Offset (MHz)	F_H/F_L	Total No.	Detected No.	Detection Rate (%)	Limit (%)
ax160	5491	-79		10	0	0	90
ax160	5492	-78	FL	10	10	100	90
ax160	5493	-77		10	10	100	90
ax160	5494	-76		10	10	100	90
ax160	5495	-75		10	10	100	90
ax160	5496	-74		10	10	100	90
ax160	5497	-73		10	10	100	90
ax160	5498	-72		10	10	100	90
ax160	5499	-71		10	10	100	90
ax160	5500	-70		10	10	100	90
ax160	5505	-65		10	10	100	90
ax160	5510	-60		10	10	100	90
ax160	5515	-55		10	10	100	90
ax160	5520	-50		10	10	100	90
ax160	5525	-45		10	10	100	90
ax160	5530	-40		10	10	100	90
ax160	5535	-35		10	10	100	90
ax160	5540	-30		10	10	100	90
ax160	5545	-25		10	10	100	90
ax160	5550	-20		10	10	100	90
ax160	5555	-15		10	10	100	90
ax160	5560	-10		10	10	100	90
ax160	5565	-5		10	10	100	90
ax160	5570	0		10	10	100	90
ax160	5575	5		10	10	100	90
ax160	5580	10		10	10	100	90
ax160	5585	15		10	10	100	90
ax160	5590	20		10	10	100	90
ax160	5595	25		10	10	100	90
ax160	5600	30		10	10	100	90
ax160	5605	35		10	10	100	90
ax160	5610	40		10	10	100	90
ax160	5615	45		10	10	100	90
ax160	5620	50		10	10	100	90
ax160	5625	55		10	10	100	90
ax160	5630	60		10	10	100	90
ax160	5635	65		10	10	100	90
ax160	5640	70		10	10	100	90
ax160	5641	71		10	10	100	90
ax160	5642	72		10	10	100	90
ax160	5643	73		10	10	100	90
ax160	5644	74		10	10	100	90
ax160	5645	75		10	10	100	90
ax160	5646	76		10	10	100	90
ax160	5647	77		10	10	100	90
ax160	5648	78	FH	10	10	100	90
ax160	5649	79		10	0	0	90

APPENDIX A. PHOTOGRAPH OF THE EUT

Please refer to the attached document E202212085403-01-1 EUT Photo.

----- **End of Report** -----