

Dynamic Frequency Selection (DFS)

Test Report

(Class II Permissive Change)

Product Name	LV55
Model No	LVSKIHP
FCC ID	NKR-LVSK-IHP

Applicant	Wistron NeWeb Corporation
Address	20 Park Avenue II, Hsinchu Science Park, Hsinchu 308, Taiwan

Date of Receipt	Jul. 29, 2020
Issued Date	Aug. 28 2020
Report No.	2071064R-E3032610115
Report Version	V1.0



The test results relate only to the samples tested.

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.

This report must not be used to claim product endorsement by TAF or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.

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.

DFS Test Report

Issued Date: Aug. 28 2020

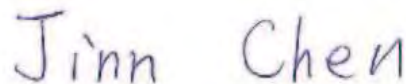
Report No.: 2071064R-E3032610115



Product Name	LV55
Applicant	Wistron NeWeb Corporation
Address	20 Park Avenue II, Hsinchu Science Park, Hsinchu 308, Taiwan
Manufacturer	Wistron NeWeb Corporation
Model No.	LVSKIHP
FCC ID.	NKR-LVSK-IHP
EUT Rated Voltage	AC 100-240V / 50-60Hz
EUT Test Voltage	AC 120V / 60Hz
Trade Name	WNC
Applicable Standard	FCC CFR Title 47 Part 15 Subpart E 15.407 (h) KDB 905462
Test Result	Complied

Documented By

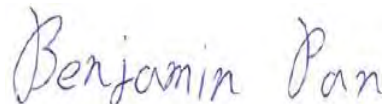
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(Senior Adm. Specialist / Jinn Chen)

Tested By

:



(Senior Engineer / Benjamin Pan)

Approved By

:



(Director / Vincent Lin)

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Attachment 1: EUT Test Photographs

Revision History

Report No.	Version	Description	Issued Date
2071064R-E3032610115	V1.0	Initial issue of report.	2020-08-28

1. GENERAL INFORMATION

1.1. Standard Requirement

FCC Part 15.407:

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 30dBm. 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.

1.2. EUT Description

Product Name	LV55
Trade Name	WNC
FCC ID.	NKR-LVSK-IHP
Model No.	LVSKIHP
Frequency Range	802.11a/n-20MHz: 5260-5320MHz, 5500-5700MHz 802.11ac/ax-20MHz: 5260-5320MHz, 5500-5700MHz, 5720MHz 802.11n-40MHz: 5270-5310MHz, 5510-5670MHz 802.11ac/ax-40MHz: 5270-5310MHz, 5510-5670MHz, 5710MHz 802.11ac/ax-80MHz: 5290MHz, 5530-5690MHz
Number of Channels	802.11a/n-20MHz: 15 802.11ac/ax-20MHz: 16 802.11n-40MHz: 7 802.11ac/ax-40MHz: 8 802.11ac/ax-80MHz: 4
Data Rate	802.11a: 6 - 54Mbps 802.11n: up to 600Mbps 802.11ac: up to 1733.3Mbps 802.11ax: up to 2402Mbps
Channel Control	Auto
Type of Modulation	802.11a/n/ac/ax: OFDM, BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Channel Bandwidth	20/40/80MHz
DFS Function	<input checked="" type="checkbox"/> Master <input type="checkbox"/> Slave
TPC Function	<input type="checkbox"/> <500mW not required <input checked="" type="checkbox"/> \geq 500mW employ a TPC
Communication Mode	<input checked="" type="checkbox"/> IP Based Systems <input type="checkbox"/> Frame Based System <input type="checkbox"/> Other System
Antenna type	Dipole Antenna
Antenna Gain	Refer to the table "Antenna List"
Power Adapter	MFR: Delta, M/N: ADP-120VH D Input: AC 100-240V~2.5A, 50-60Hz Output: 20V, 6A Cable Out: Non-shielded, 3.0m Power Cord: Non-shielded, 2.0m
Hardware Version	0.0.2
Software Version	0.23.11.1dbg

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Directioal Gain
1.	WNC	95XKAC15.GDENVZ	Dipole antenna	5.22dBi For 5.25~5.35GHz 5.15dBi for 5.47~5.725GHz
2.	WNC	95XKAC15.GDOVZ	Dipole antenna	
3.	WNC	95XKAC15.GDPVZ	Dipole antenna	
4.	WNC	95XKAC15.GDQVZ	Dipole antenna	

802.11a/n-20MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 052:	5260 MHz	Channel 056:	5280 MHz	Channel 060:	5300 MHz	Channel 064:	5320 MHz
Channel 100:	5500 MHz	Channel 104:	5520 MHz	Channel 108:	5540 MHz	Channel 112:	5560 MHz
Channel 116:	5580 MHz	Channel 120:	5600 MHz	Channel 124:	5620 MHz	Channel 128:	5640 MHz
Channel 132:	5660 MHz	Channel 136:	5680 MHz	Channel 140:	5700 MHz		

802.11ac/ax-20MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 052:	5260 MHz	Channel 056:	5280 MHz	Channel 060:	5300 MHz	Channel 064:	5320 MHz
Channel 100:	5500 MHz	Channel 104:	5520 MHz	Channel 108:	5540 MHz	Channel 112:	5560 MHz
Channel 116:	5580 MHz	Channel 120:	5600 MHz	Channel 124:	5620 MHz	Channel 128:	5640 MHz
Channel 132:	5660 MHz	Channel 136:	5680 MHz	Channel 140:	5700 MHz	Channel 144:	5720 MHz

802.11n-40MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 054:	5270 MHz	Channel 062:	5310 MHz	Channel 102:	5510 MHz	Channel 110:	5550 MHz
Channel 118:	5590 MHz	Channel 126:	5630 MHz	Channel 134:	5670 MHz		

802.11ac/ax-40MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 054:	5270 MHz	Channel 062:	5310 MHz	Channel 102:	5510 MHz	Channel 110:	5550 MHz
Channel 118:	5590 MHz	Channel 126:	5630 MHz	Channel 134:	5670 MHz	Channel 142:	5710 MHz

802.11ac/ax-80MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 058:	5290 MHz	Channel 106:	5530 MHz	Channel 122:	5610 MHz	Channel 138:	5690 MHz

Note:

1. This device is a LV55 with built-in WLAN(802.11a/b/g/n/ac/ax) transceiver, this report for 5GHz WLAN.
2. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance of transmitter with Part 15 Subpart E for Unlicensed National Information Infrastructure devices.
3. This is to request a Class II permissive change for FCC ID: NKR-LVSK-IHP, originally granted on 07/20/2020.

The major change filed under this application is:

Change #1: Add 5.25-5.35 GHz and 5.47-5.725 GHz bands by software, All other hardware is identical with original granted.

4. All modes and combinations of operation were considered including modulation, channel and technology, please see below test mode.

Test Mode	Mode 1: Transmit (802.11n-20BW)-CDD Mode 2: Transmit (802.11n-40BW)-CDD Mode 3: Transmit (802.11ac-80BW)-CDD Mode 4: Transmit (802.11ax-80BW)-CDD Mode 5: Transmit (802.11ax-80BW)-Beamforming
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1.3. UNII Device Description

(1) The EUT operates in the following DFS band:

1. 5250-5350 MHz
2. 5470-5725 MHz

(2) The U-NII device maximum power is 29.92dBm (E.I.R.P).

(3) The U-NII device employs a TPC mechanism and this TPC function can operate at least 6dB below the highest RF output power.

(3) WLAN traffic is generated by the test software “Iperf.exe” from the Master device to the Slave device in the transfer data rate >17%.

(4) For the 5250-5350MHz 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.

(5) The client device is a 5G Home Router (Model: LVR1) and the FCC ID: NKR-LVSK-R1.

1.4. Test Equipment

Dynamic Frequency Selection (DFS) / ASR6

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	R&S	FSV30	103467	2020.02.11
Vector Signal Generator	R&S	SMBV100	261871	2020.03.19
Horn Antenna	ETS-Lindgren	3117	02001259	2019.10.15
Horn Antenna	ETS-Lindgren	3117	00201366	2019.09.03

Instrument	Manufacturer	Type No.	Serial No
Notebook Pc	Hp	HSTNN-155C	CNU8476RVZ
Notebook Pc	Dell	Latitude E5420	24357736765
RF Cable	WOKEN	L1406-031C	S02-130729-305
RF Cable	SUHNER	SUCOFLEX 106	3474516
5G Home Router	WNC	LVR1	--

Software	Manufacturer	Function
R&S Pulse Sequencer V1.9	R&S	Radar Signal Generation Software
Media Player Classic v6.4.8.6	Gabest.org	Multimedia Player

1.5. TPC Power Result

Frequency Band (MHz)	Min. Power (dBm)	Max. Power (dBm)	Min. EIRP Power (dBm)	Max. EIRP Power (dBm)
5470 - 5725MHz	17.97	23.97	23.92	29.92

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

1.6. Uncertainty

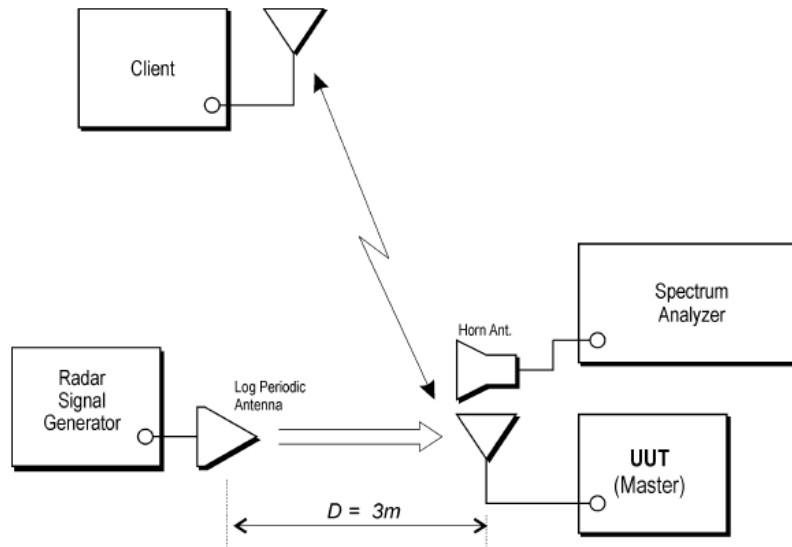
Uncertainties have been calculated according to the DEKRA internal document, and is described in each test chapter of this report.

The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

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.

Test item	Uncertainty
UNII Detection Bandwidth	± 1 ms.
Initial Channel Availability Check Time	± 1 ms.
Radar Burst at the Beginning of the Channel Availability Check Time	± 1 ms.
Radar Burst at the End of the Channel Availability Check Time	± 1 ms.
In-Service Monitoring for Channel Move Time and Channel Closing Transmission Time and Non-Occupancy Period	± 1 ms.
Statistical Performance Check	± 1 ms.

1.7. Test Setup



1.8. 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 Notes 1 and 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.

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

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.

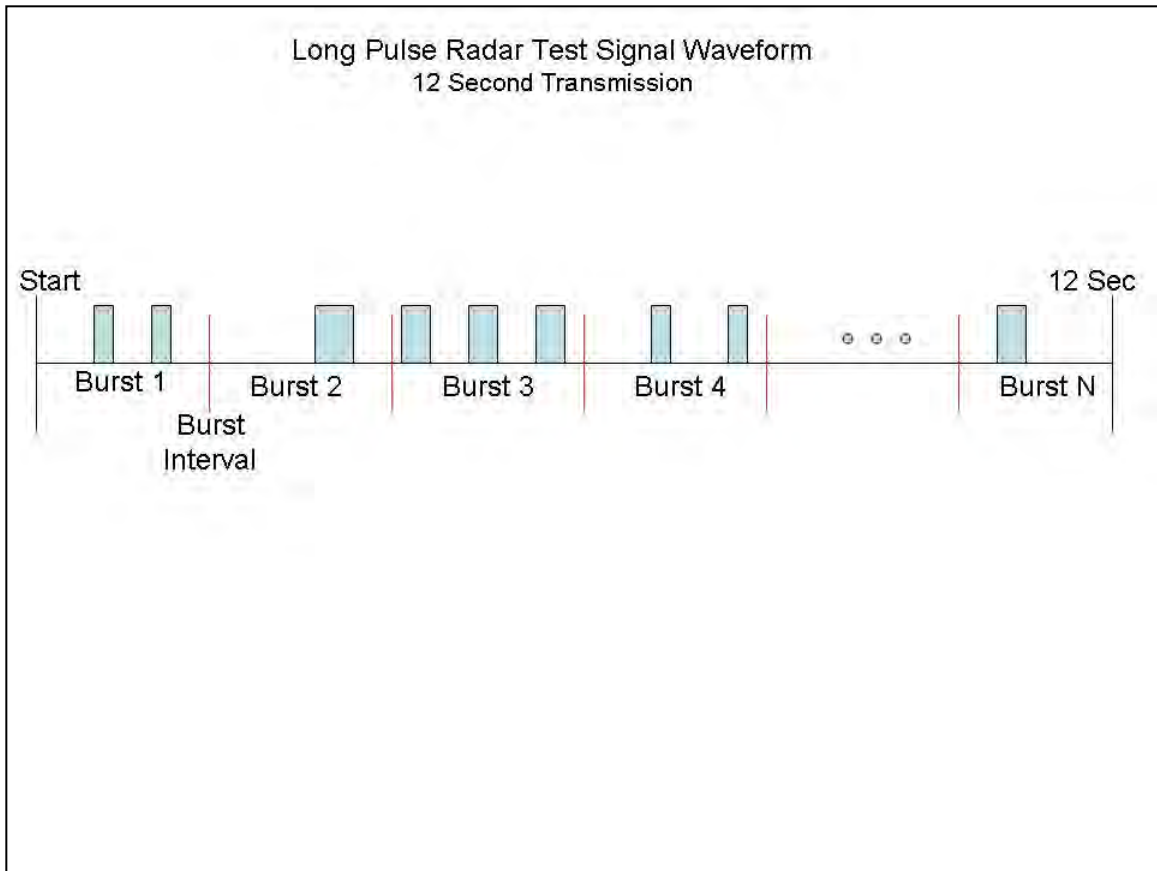
Each waveform is defined as follows:

- 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 selected from the hopping sequence defined by the following algorithm:

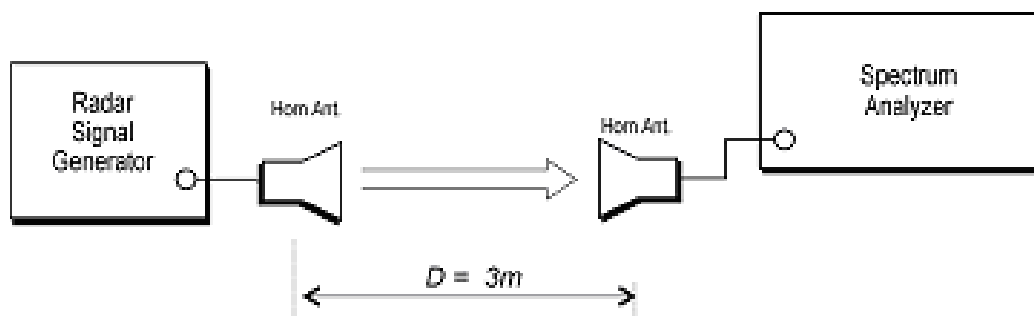
The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues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

1.10. 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 3MHz.

The signal generator amplitude was set so that the power level measured at the spectrum analyzer was -63dBm due to the interference threshold level is not required.

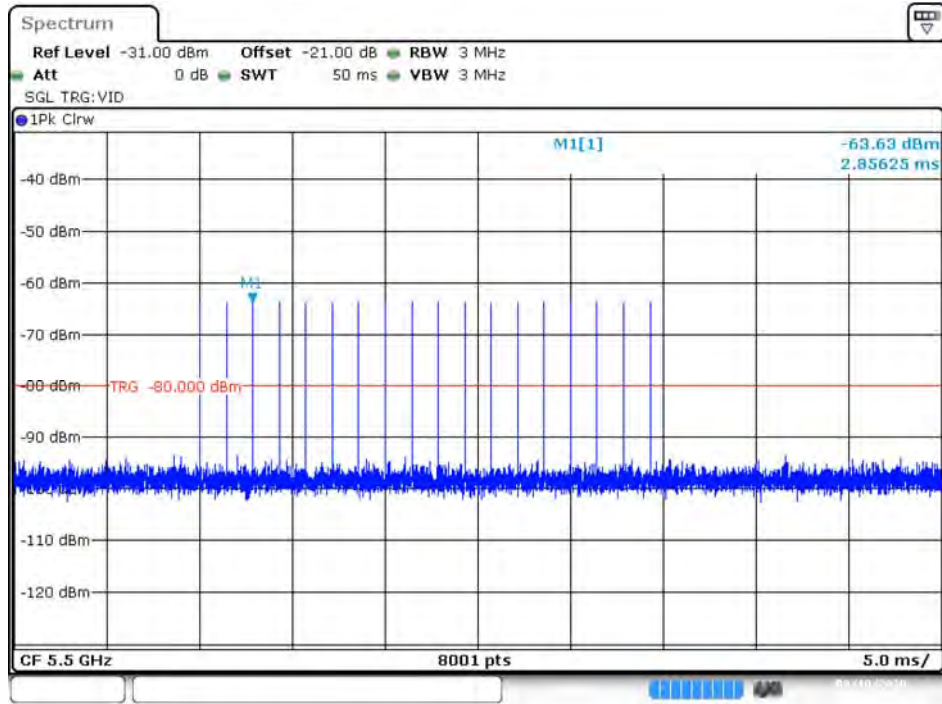
Radiated Calibration Setup



1.11. Radar Waveform Calibration Result

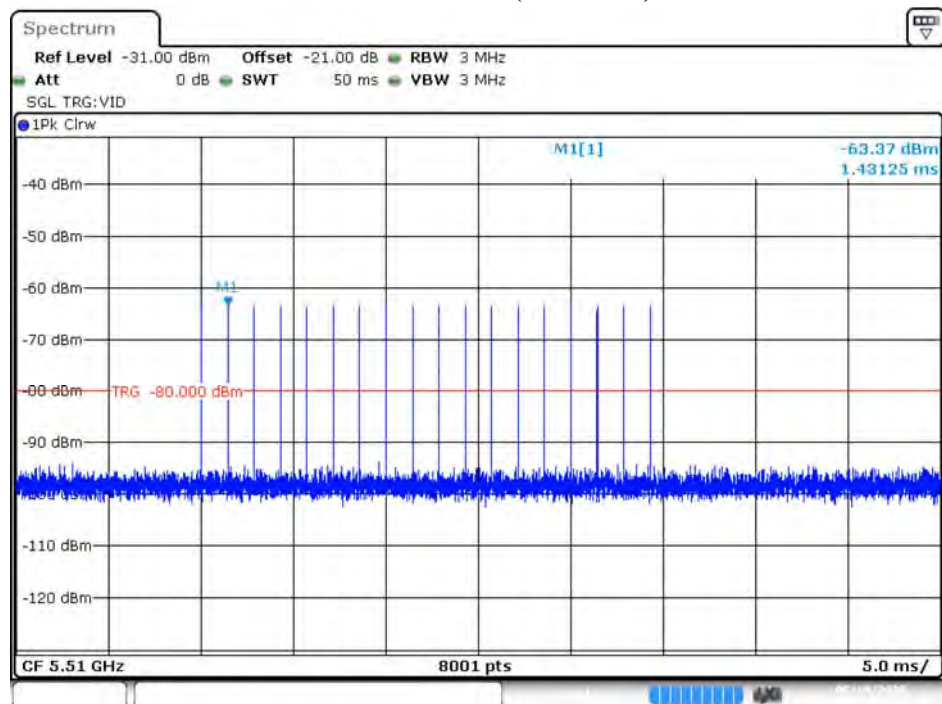
Master mode:

Radar Type 0 Calibration Plot (5500MHz)



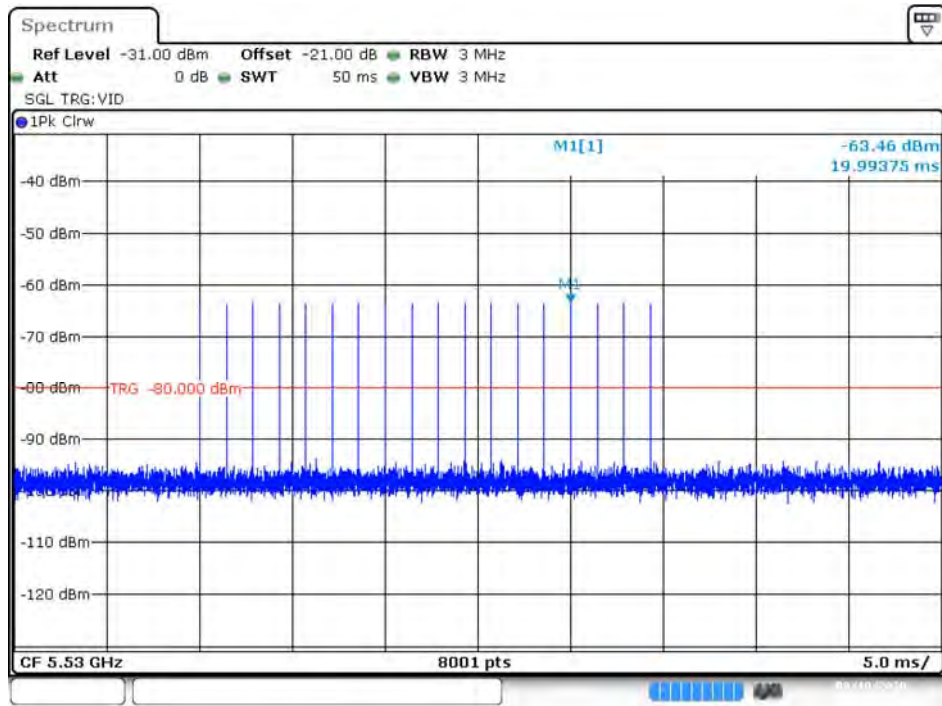
Date: 10.AUG.2020 20:11:02

Calibration Plot (5510MHz)



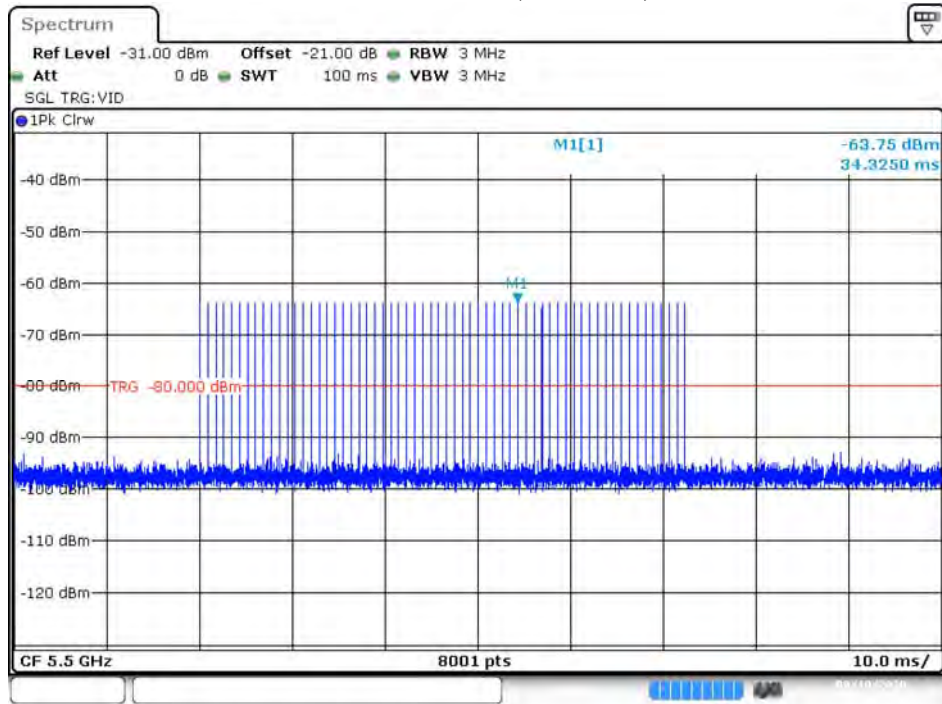
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Calibration Plot (5530MHz)



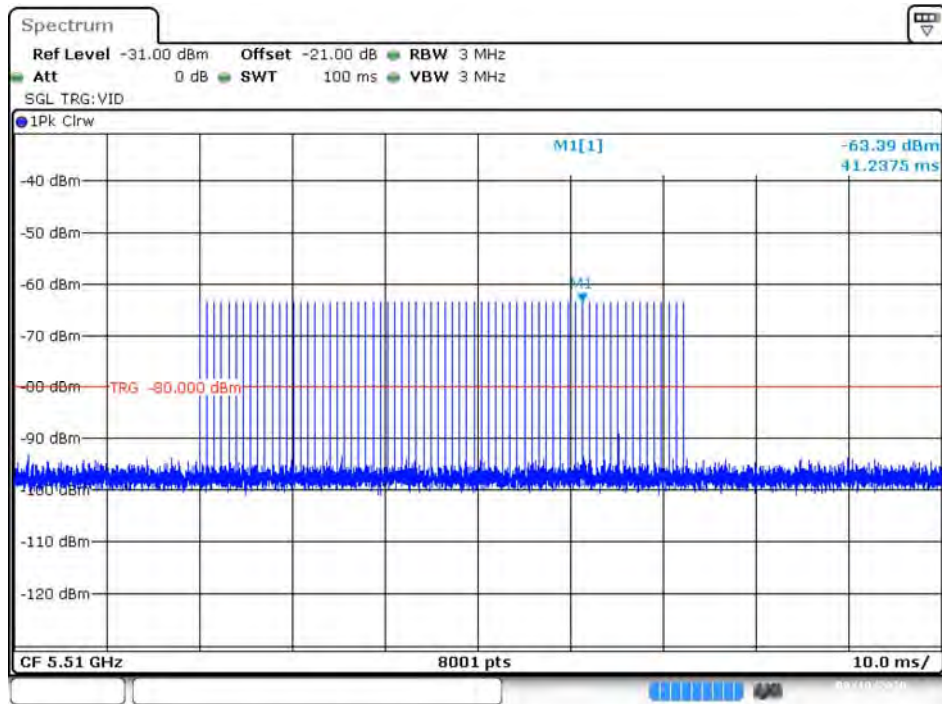
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Radar Type 1-A Calibration Plot (5500MHz)



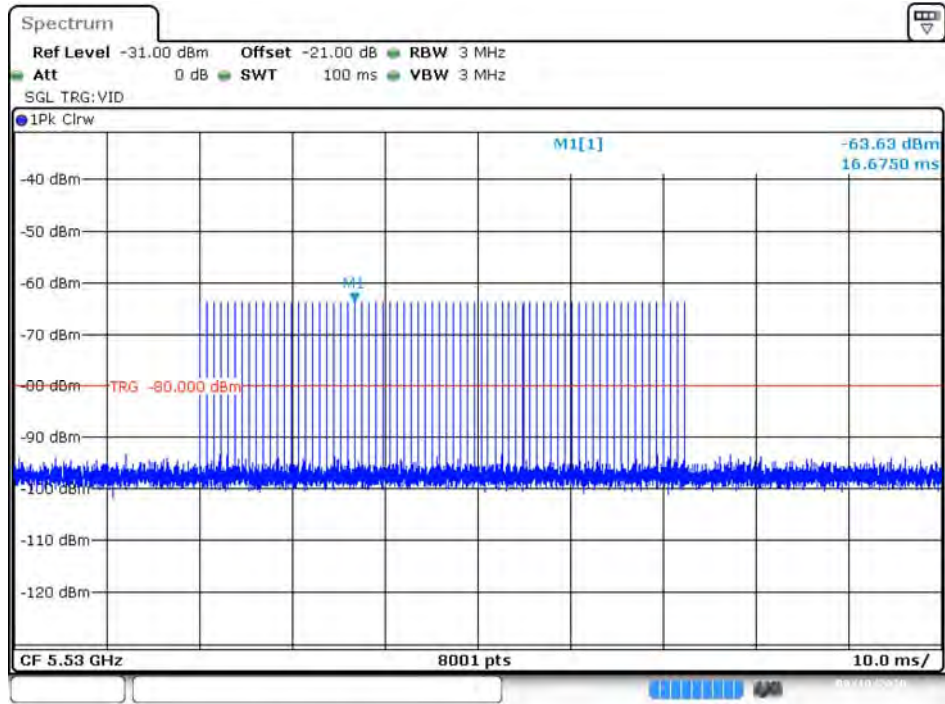
Date: 10.AUG.2020 20:16:09

Calibration Plot (5510MHz)



Date: 10.AUG.2020 20:14:21

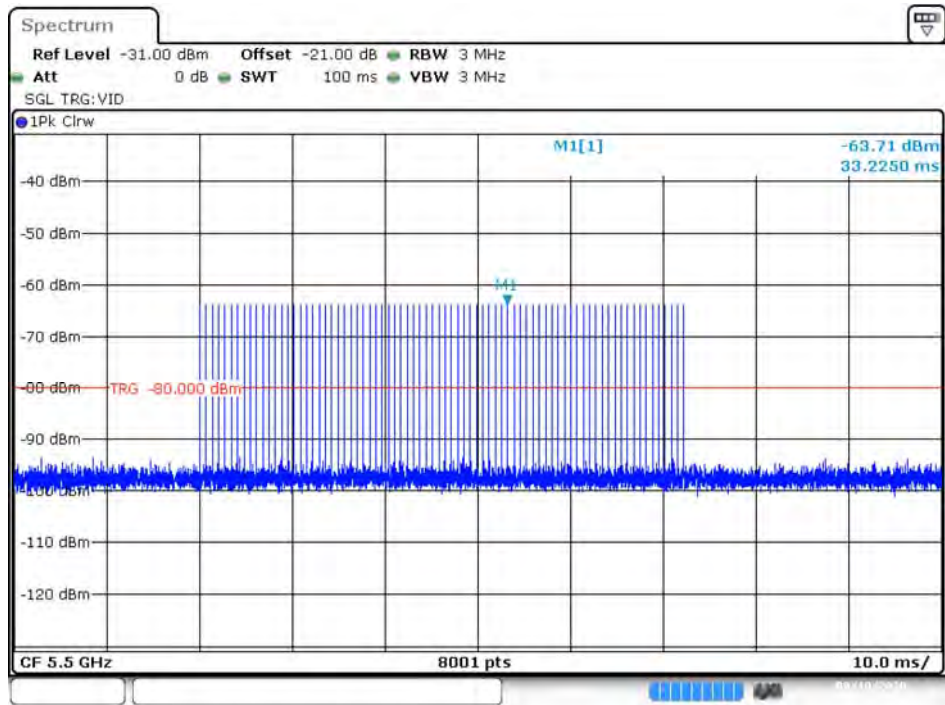
Calibration Plot (5530MHz)



Date: 10.AUG.2020 20:13:28

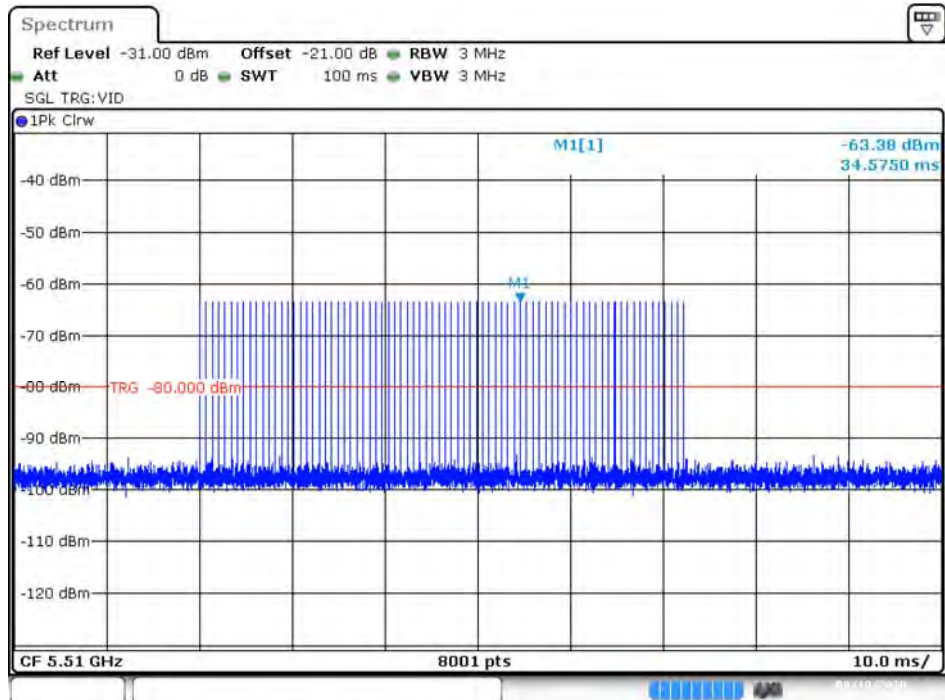
Radar Type 1-B

Calibration Plot (5500MHz)



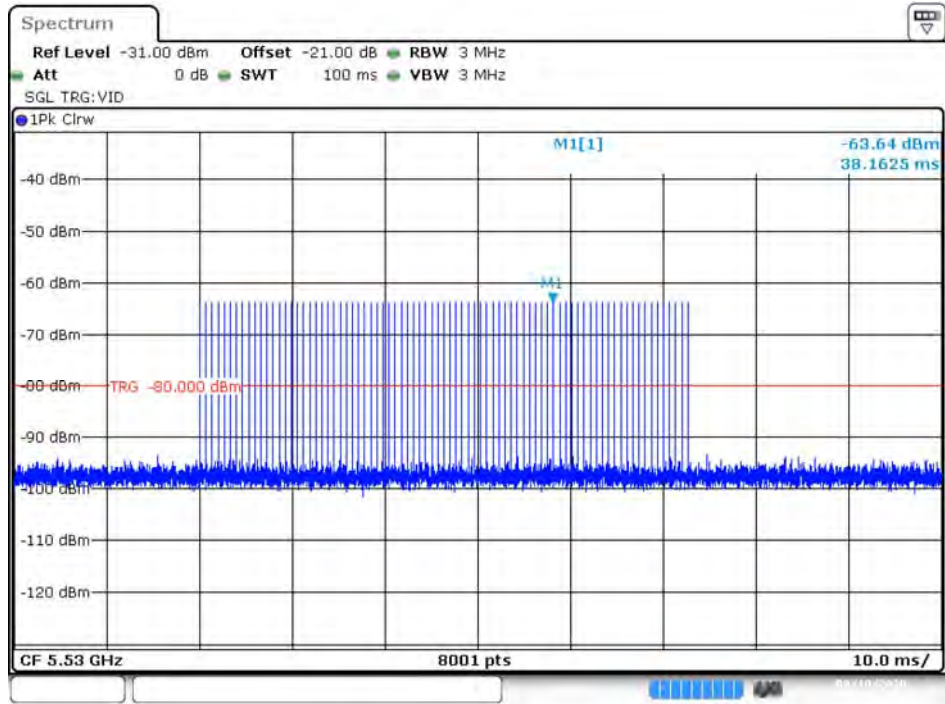
Date: 10.AUG.2020 20:15:42

Calibration Plot (5510MHz)



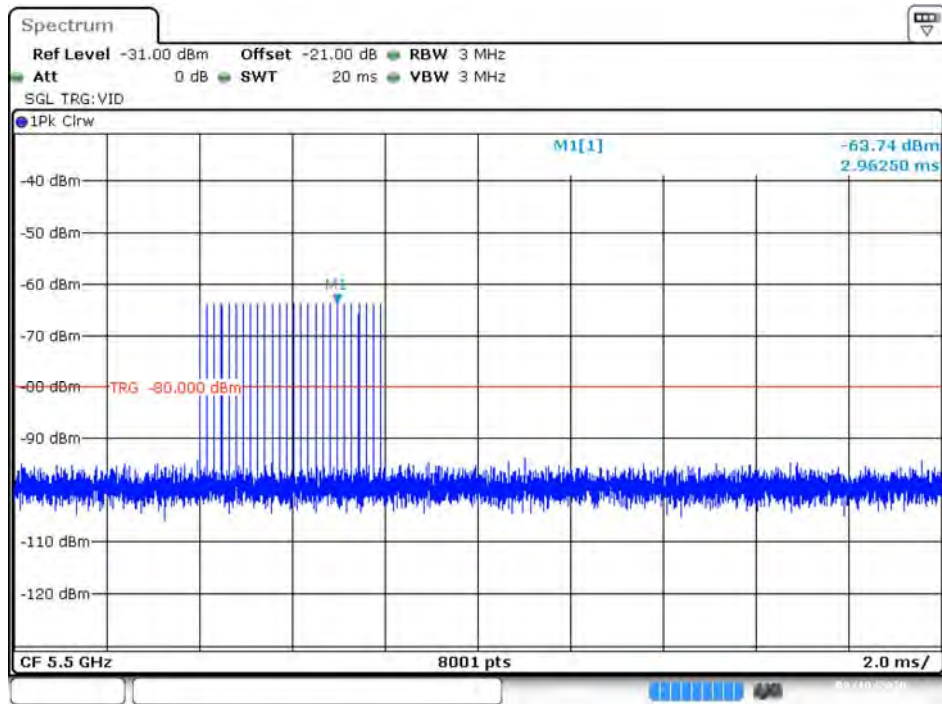
Date: 10.AUG.2020 20:14:55

Calibration Plot (5530MHz)



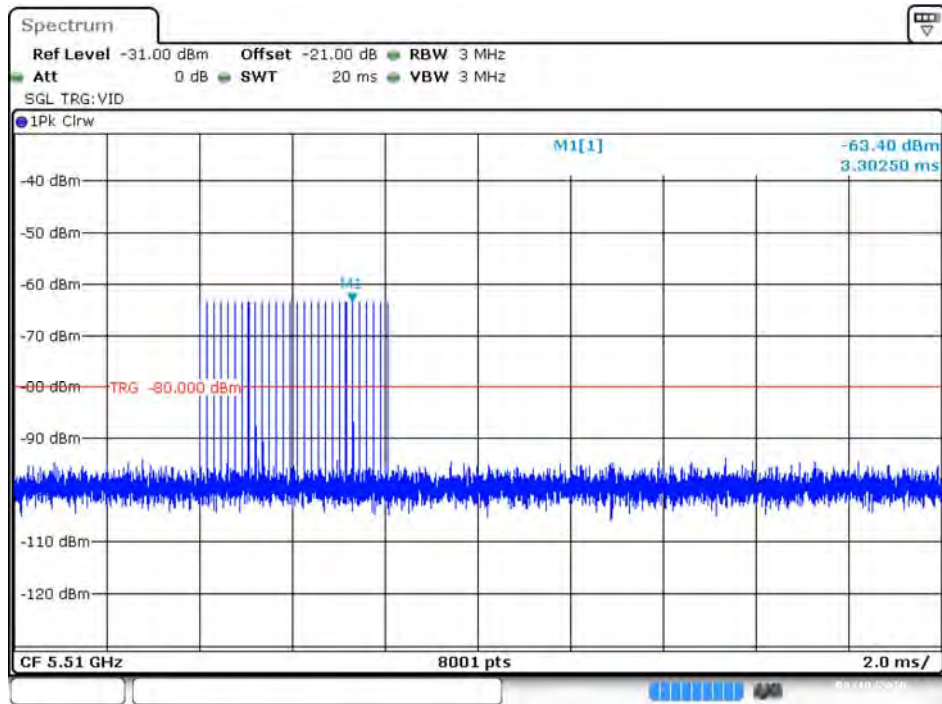
Date: 10.AUG.2020 20:13:04

Radar Type 2 Calibration Plot (5500MHz)



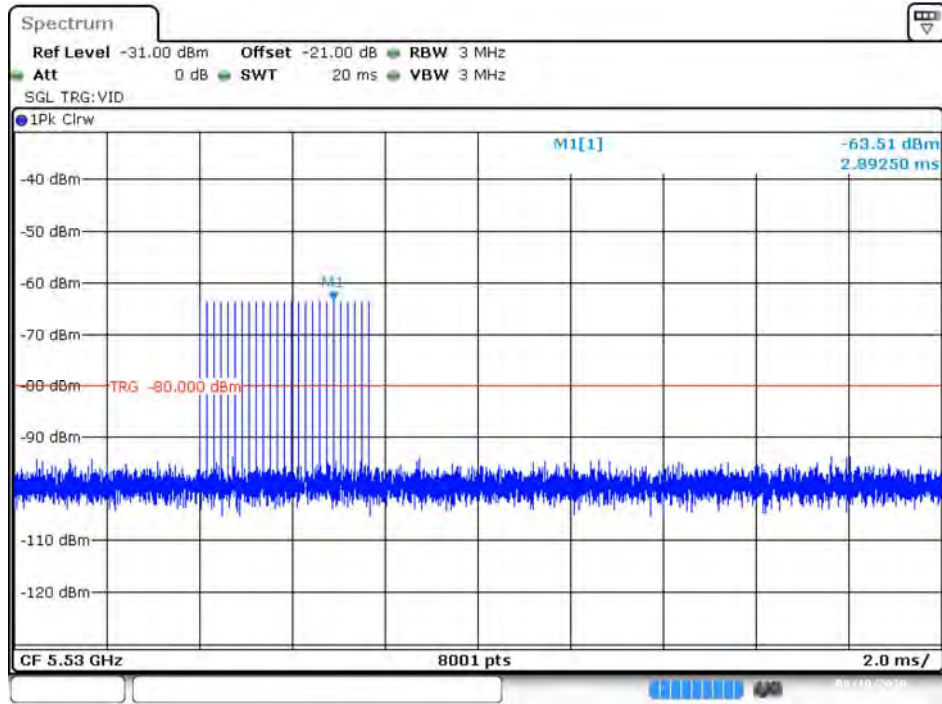
Date: 10.AUG.2020 20:17:10

Calibration Plot (5510MHz)



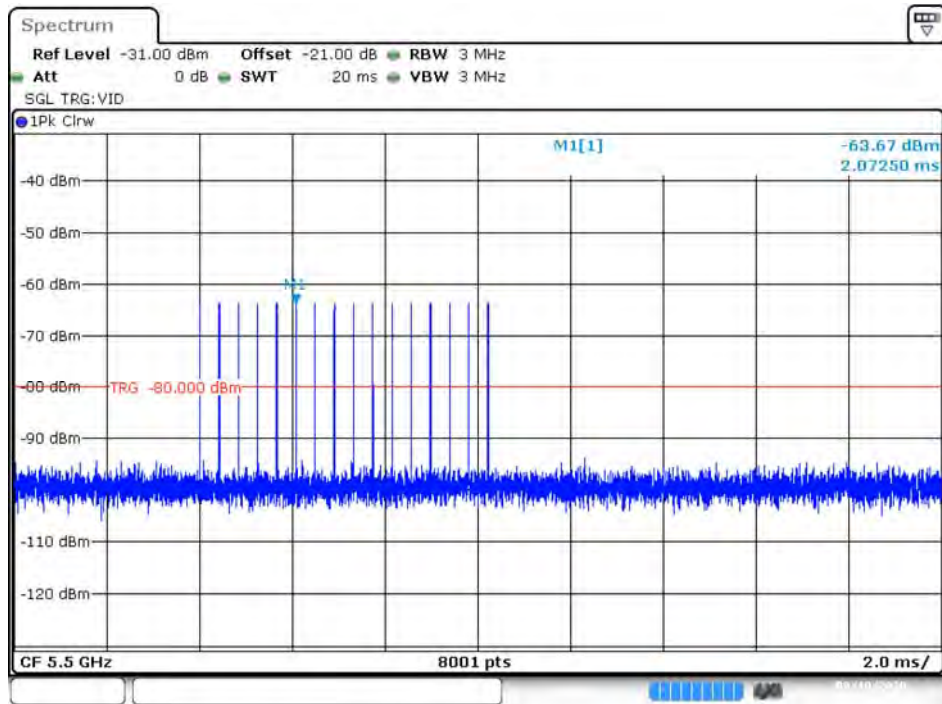
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Calibration Plot (5530MHz)



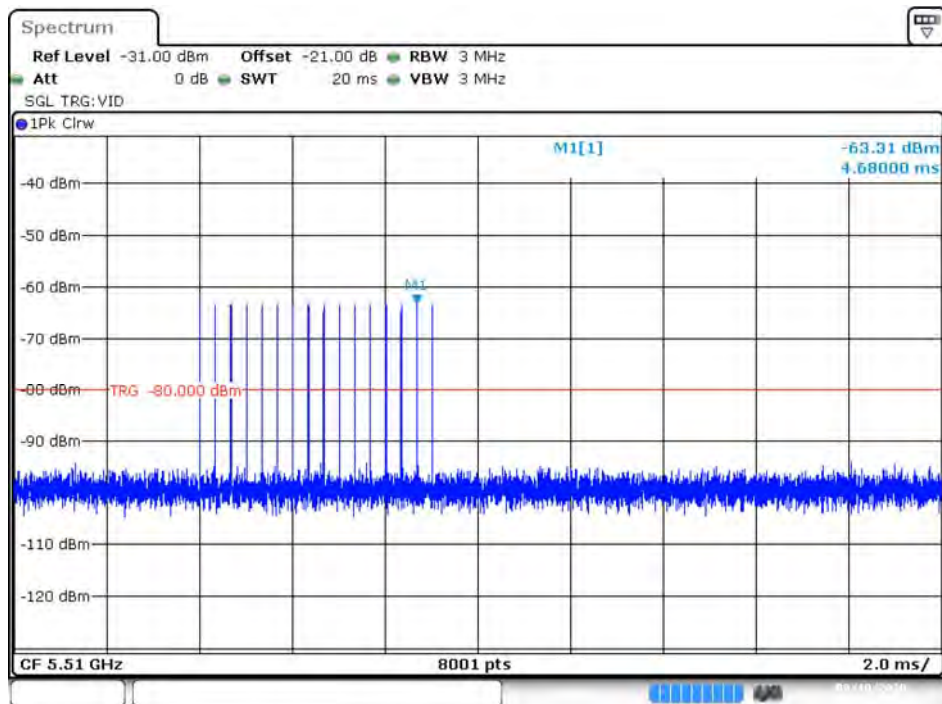
Date: 10.AUG.2020 20:18:04

Radar Type 3 Calibration Plot (5500MHz)



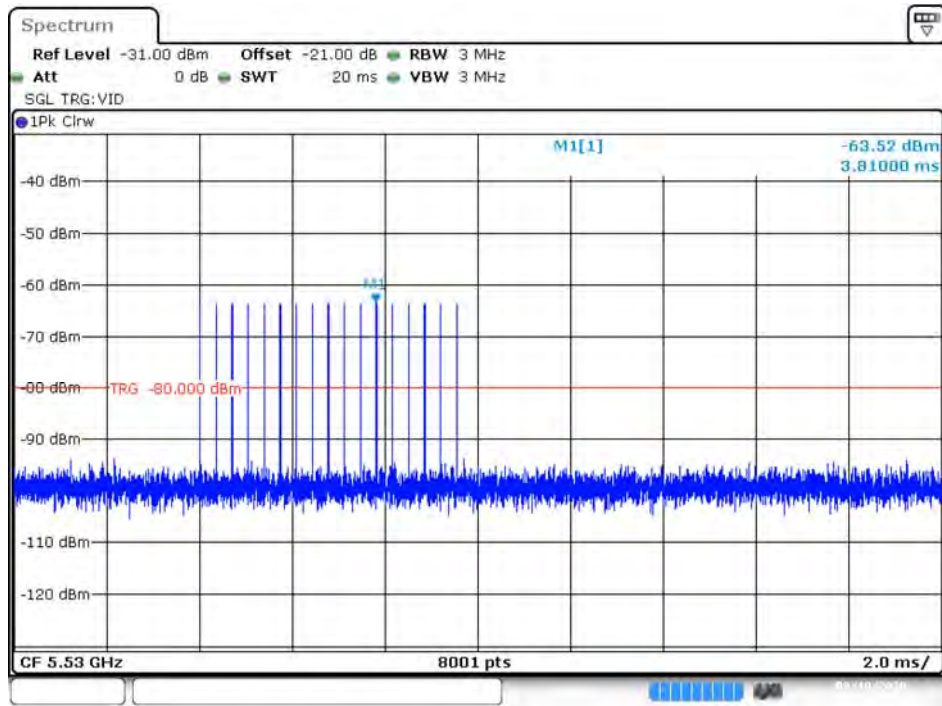
Date: 10.AUG.2020 20:19:44

Calibration Plot (5510MHz)



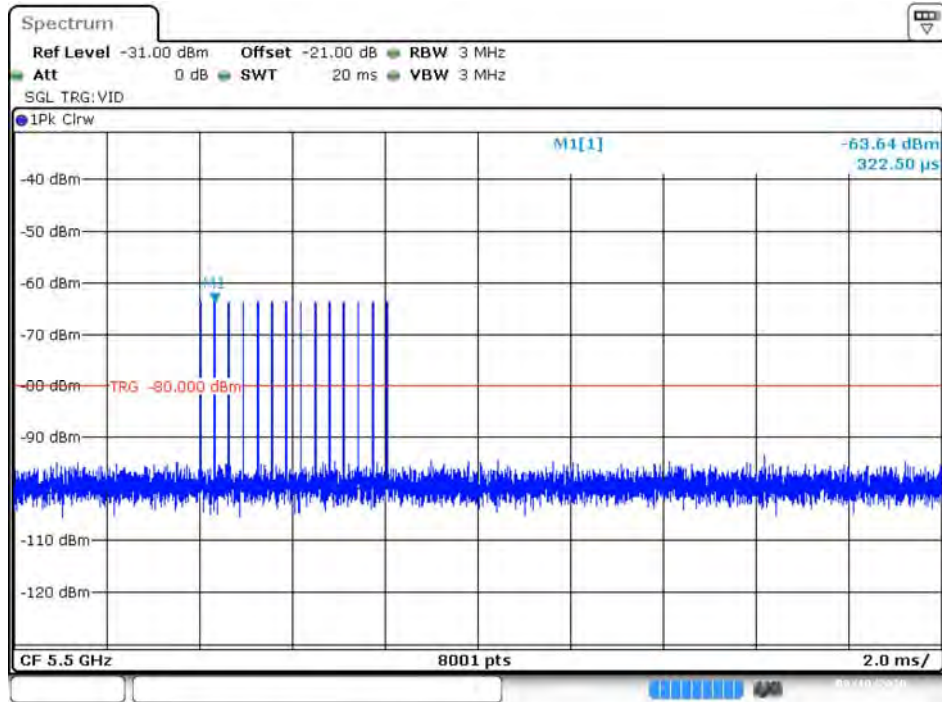
Date: 10.AUG.2020 20:19:18

Calibration Plot (5530MHz)



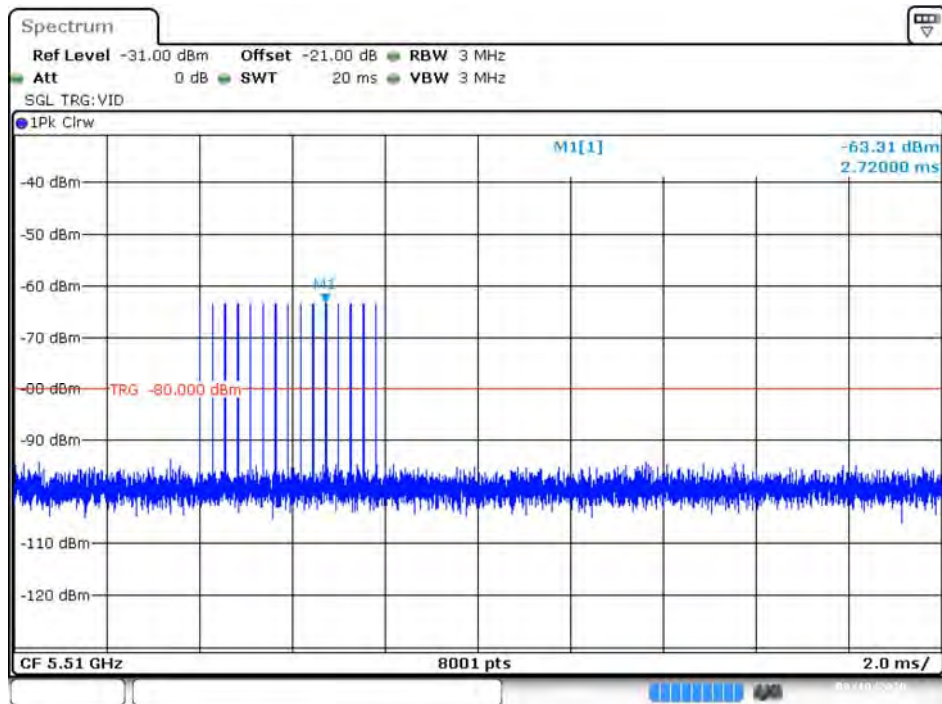
Date: 10.AUG.2020 20:18:35

Radar Type 4 Calibration Plot (5500MHz)



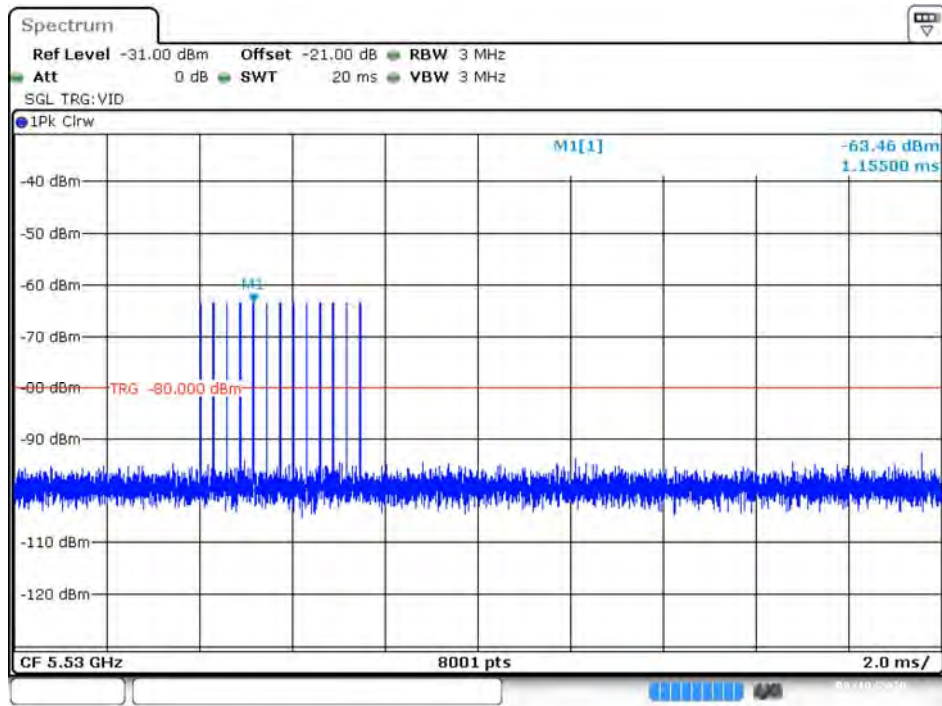
Date: 10.AUG.2020 20:20:12

Calibration Plot (5510MHz)



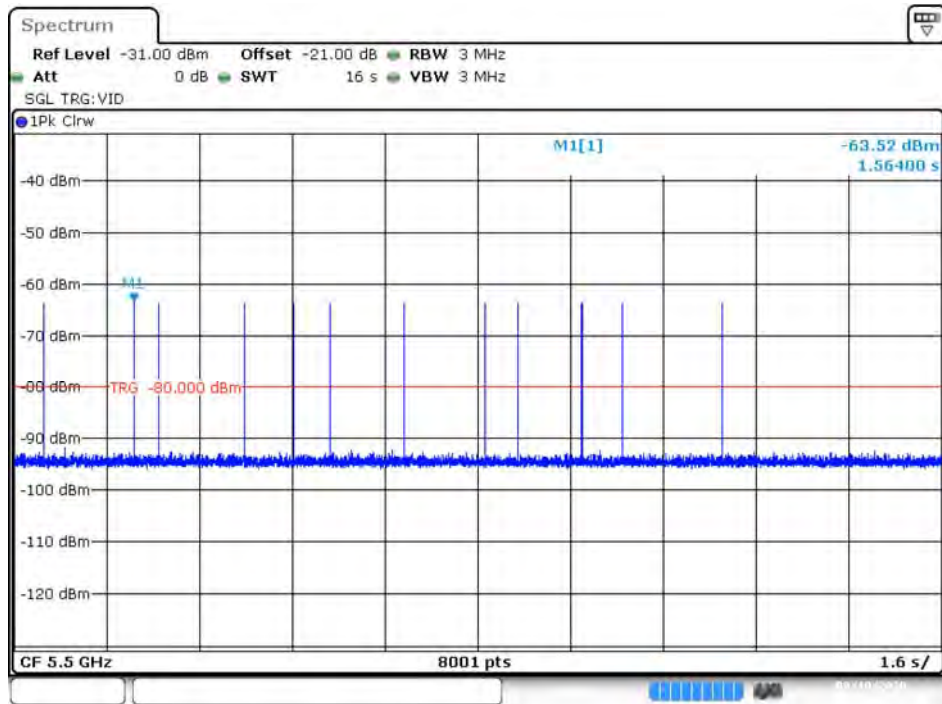
Date: 10.AUG.2020 20:20:36

Calibration Plot (5530MHz)



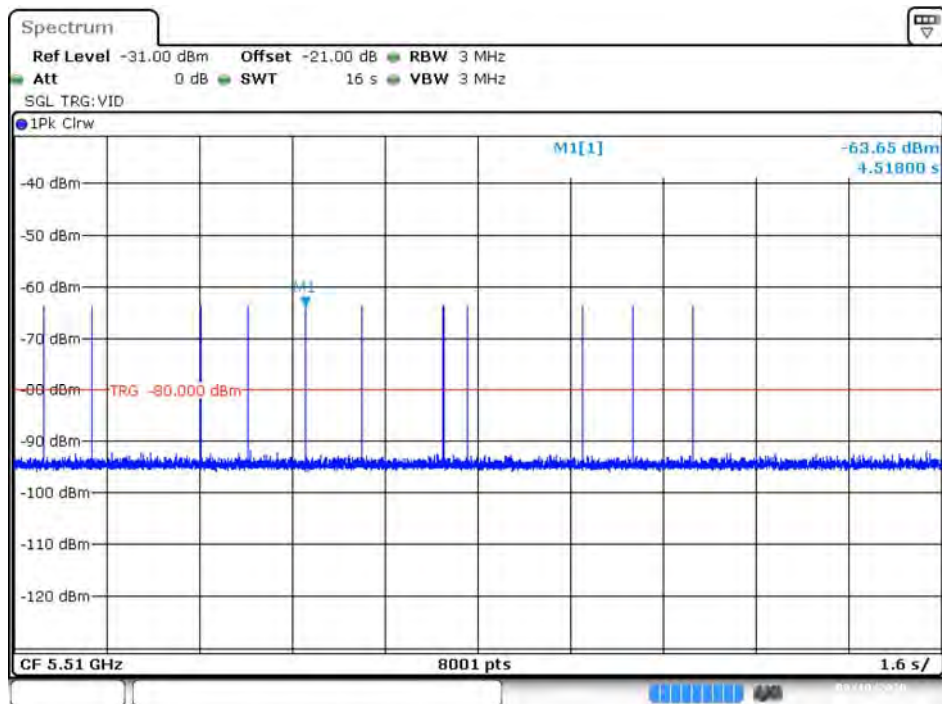
Date: 10.AUG.2020 20:21:06

Radar Type 5 Calibration Plot (5500MHz)



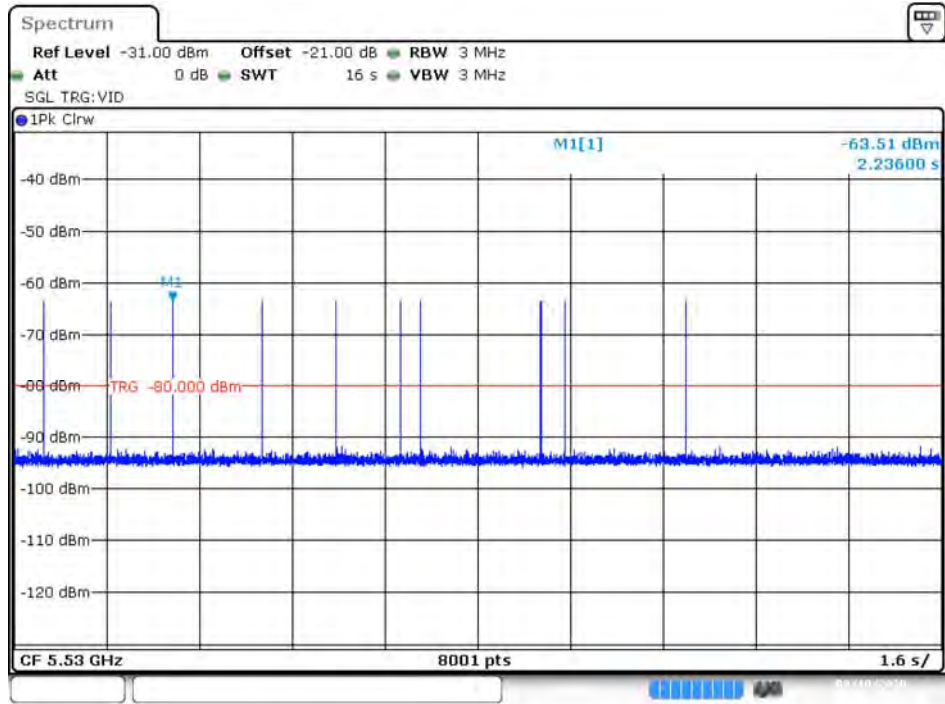
Date: 10.AUG.2020 20:31:34

Calibration Plot (5510MHz)



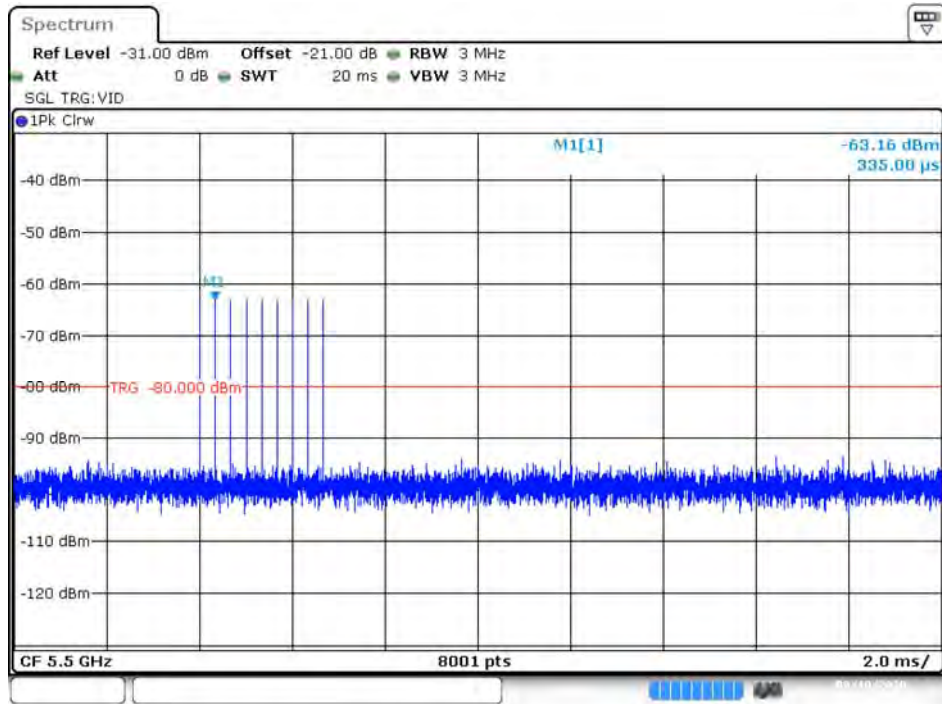
Date: 10.AUG.2020 20:29:30

Calibration Plot (5530MHz)



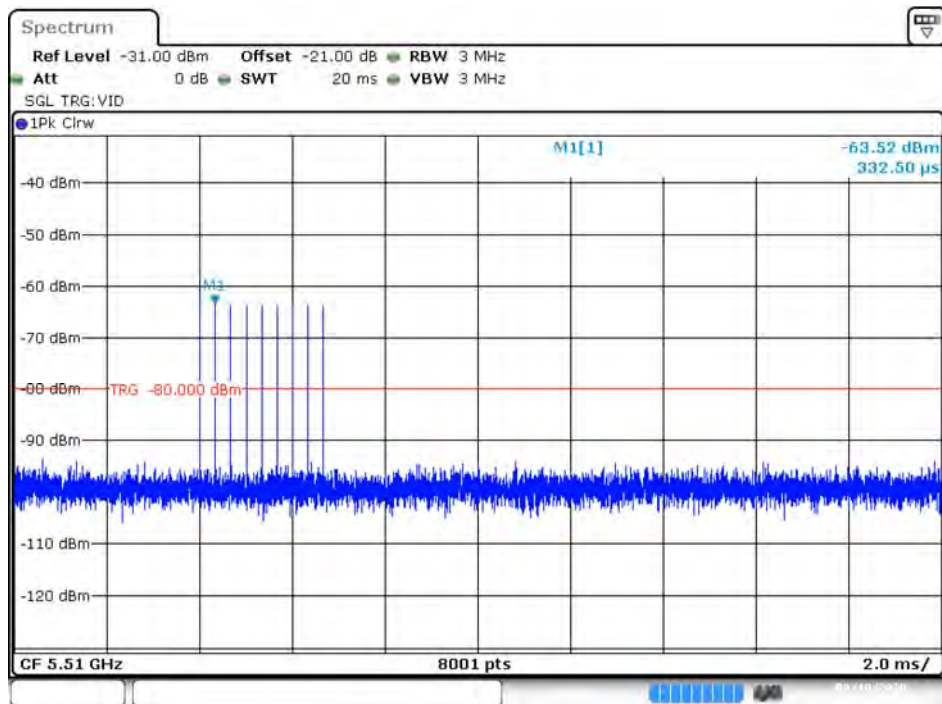
Date: 10.AUG.2020 20:28:09

Radar Type 6 Calibration Plot (5500MHz)



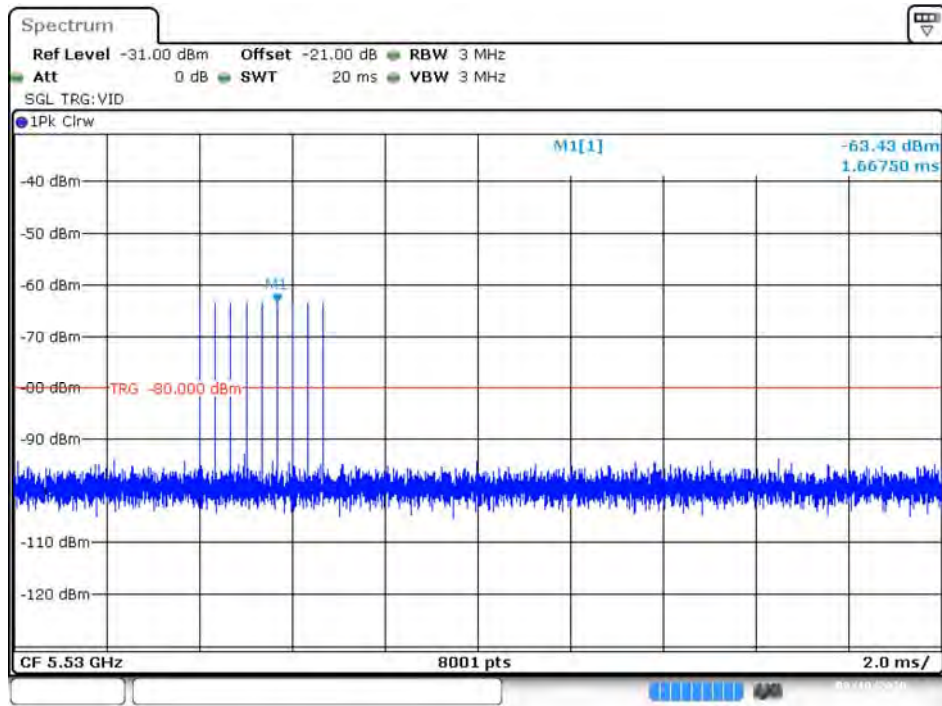
Date: 10.AUG.2020 20:25:17

Calibration Plot (5510MHz)



Date: 10.AUG.2020 20:24:33

Calibration Plot (5530MHz)

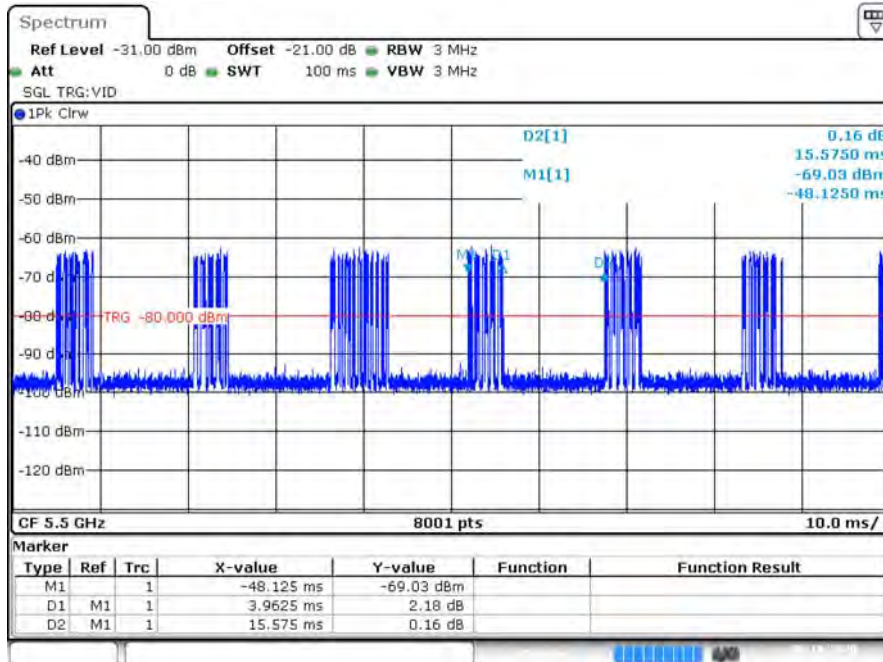


Date: 10.AUG.2020 20:25:58

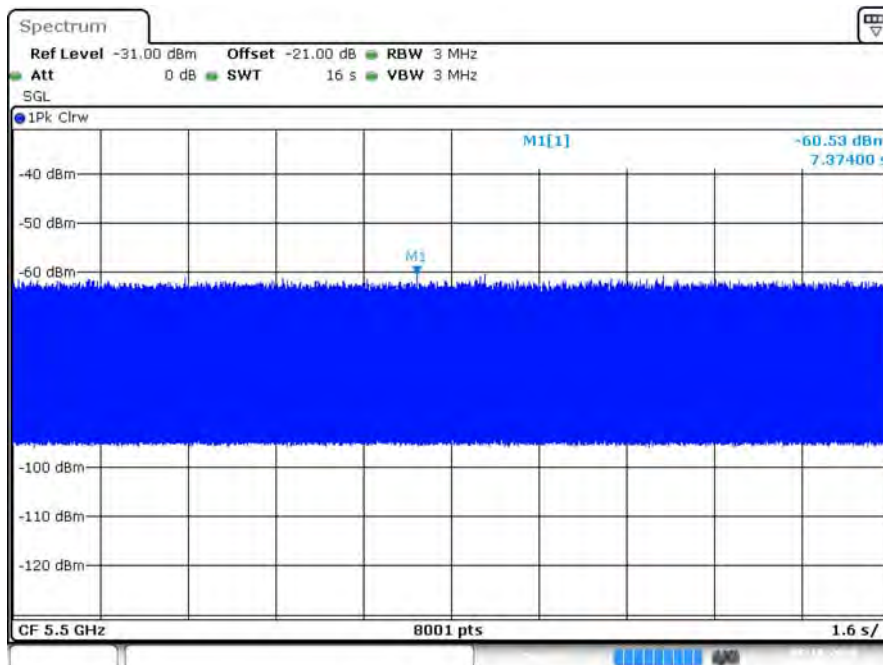
1.12. Master Data Traffic Plot Result

Master mode:

Plot of WLAN Traffic at 5500MHz-n20BW



Date: 10.AUG.2020 21:48:17



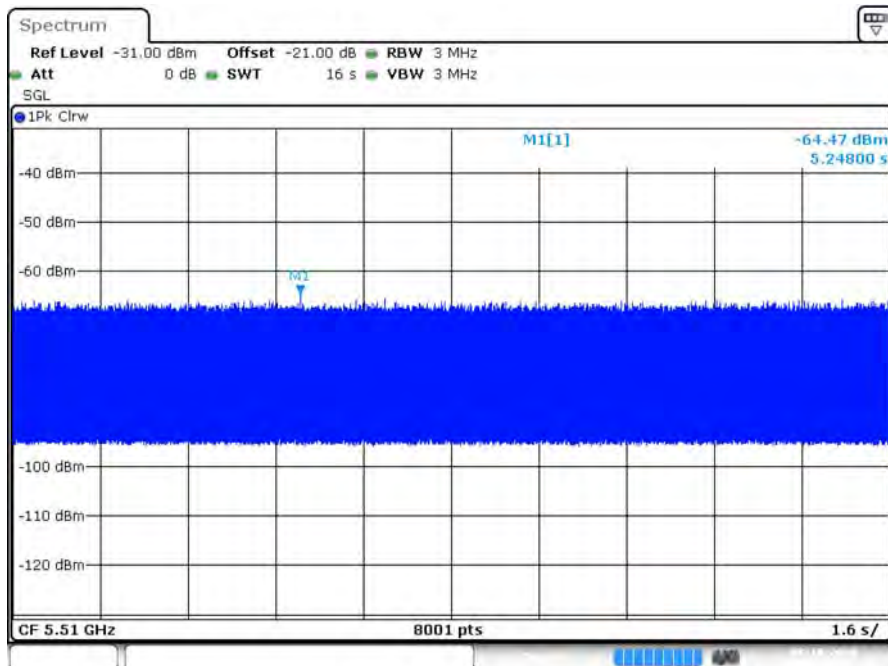
Date: 10.AUG.2020 21:49:40

Channel loading	Requirement loading
27.73%	>17%

Plot of WLAN Traffic at 5510MHz-n40BW



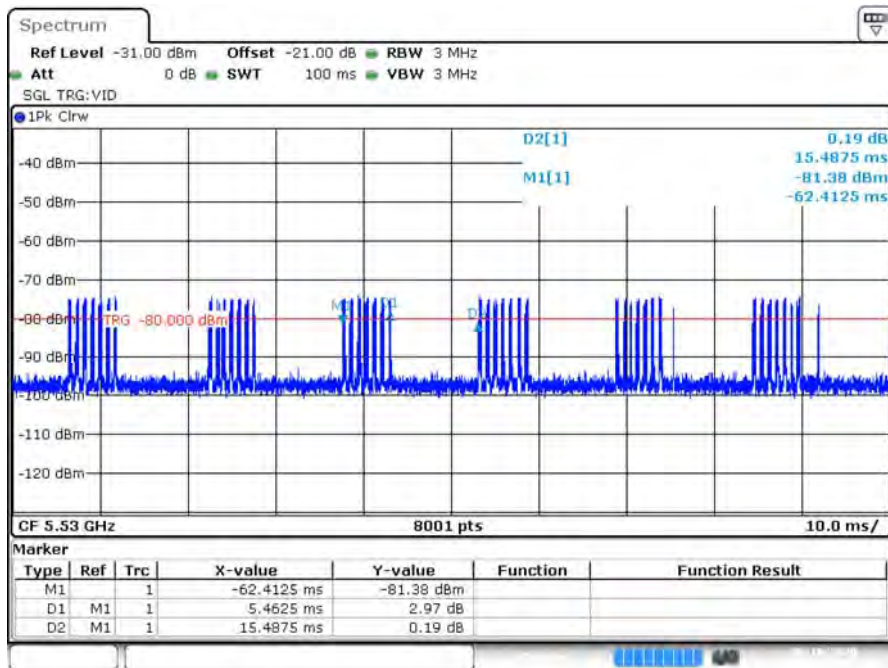
Date: 10.AUG.2020 21:58:05



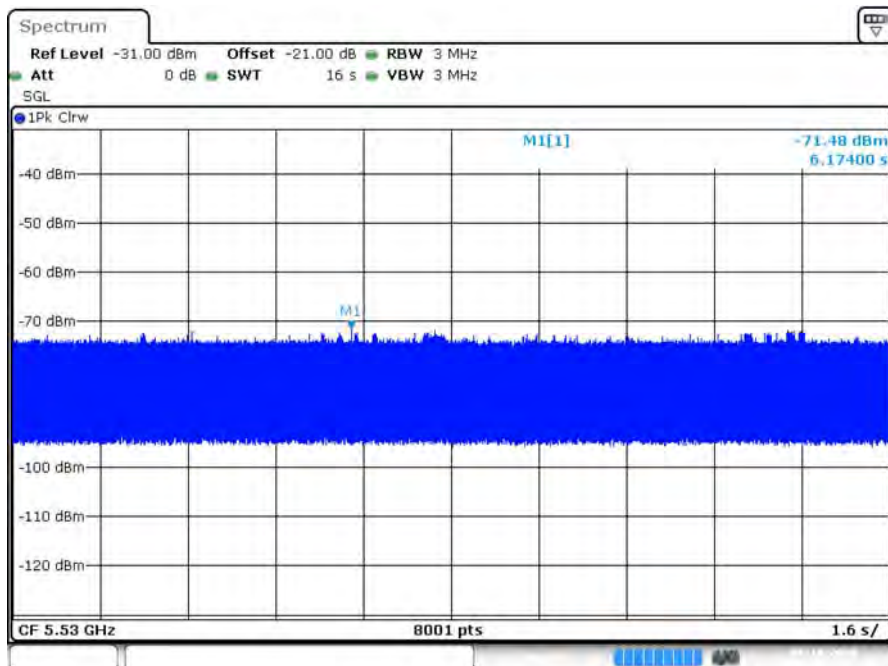
Date: 10.AUG.2020 21:53:40

Channel loading	Requirement loading
33.45%	>17%

Plot of WLAN Traffic at 5530MHz-ac 80BW



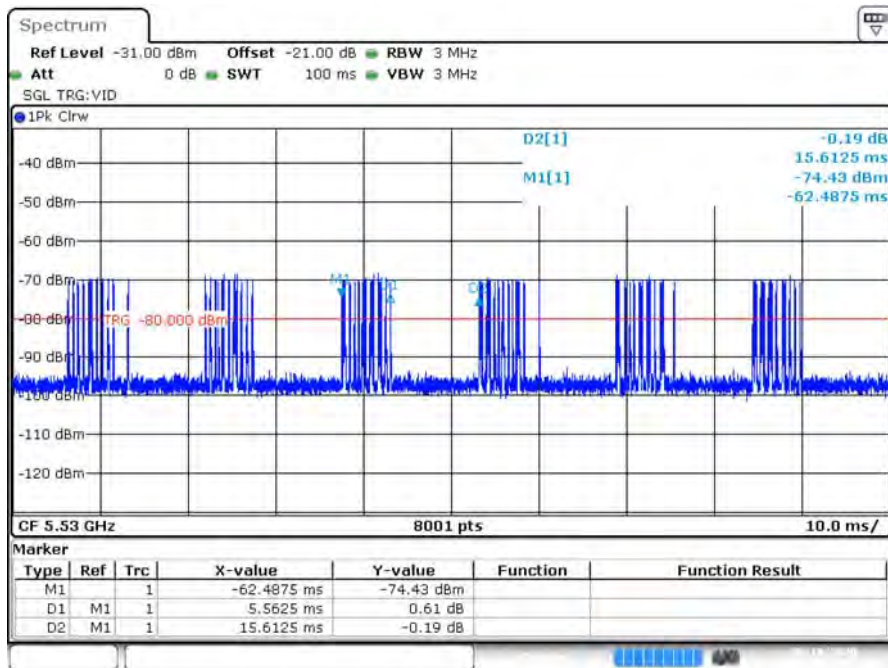
Date: 10.AUG.2020 22:04:52



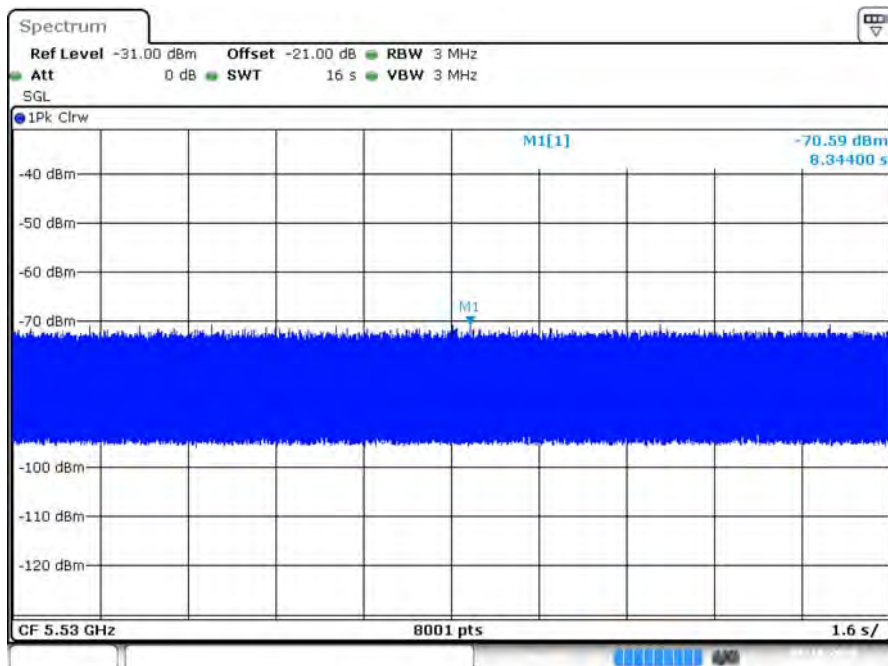
Date: 10.AUG.2020 22:47:28

Channel loading	Requirement loading
32.77%	>17%

Plot of WLAN Traffic at 5530MHz-ax 80BW



Date: 10.AUG.2020 22:10:17



Date: 10.AUG.2020 22:13:22

Channel loading	Requirement loading
33.37%	>17%

2. UNII Detection Bandwidth

2.1. Test Procedure

The EUT was tested according to U-NII test procedure of KDB905462 D02 for compliance to FCC 47CFR 15.407 requirements.

The generating equipment is configured as shown in the radiated Test Setup above. A single *Burst* of the short pulse radar type 0 is produced at 5300MHz and 5510 at a -63dBm level. The EUT is set up as a standalone device (no associated Client and no traffic).

A single radar Burst is generated for a minimum of 10 trials, and the response of the EUT is noted.

The EUT must detect the Radar Waveform 90% or more of the time. The radar frequency is increased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The highest frequency at which detection is greater than or equal to 90% is denoted as F_H .

The radar frequency is decreased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The lowest frequency at which detection is greater than or equal to 90% is denoted as F_L .

The U-NII Detection Bandwidth is calculated as follows:

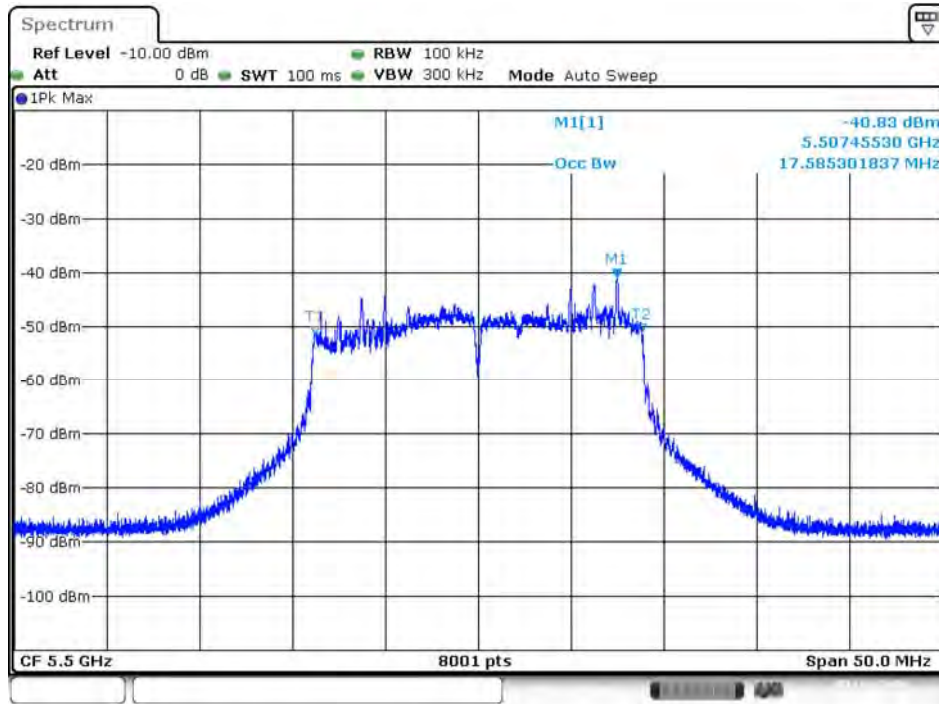
$$\text{U-NII Detection Bandwidth} = F_H - F_L$$

The U-NII Detection Bandwidth must be at least 100% of the EUT transmitter 99% power, otherwise, the EUT does not comply with DFS requirements.

2.2. Test Requirement

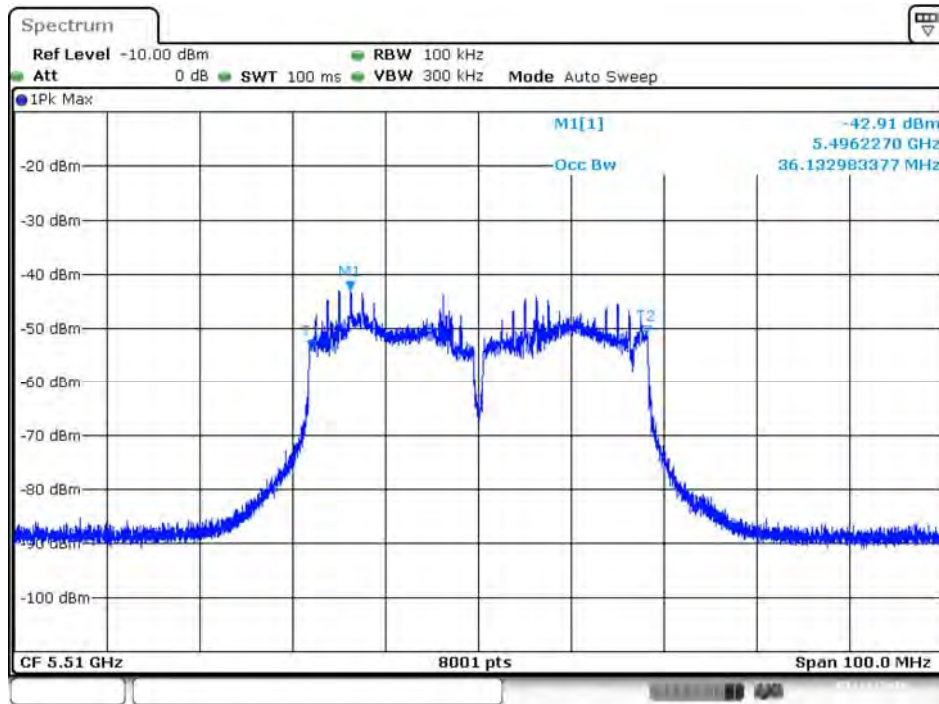
All UNII 20/40MHz and 80MHz channels for this device have identical Channel bandwidths. All UNII 20/40/80MHz channels for this device also have identical Channel bandwidths. Therefore, all DFS testing was done at 5300MHz, 5500MHz, 5510MHz and 5530MHz. The 99% channel bandwidth for 20MHz signals is 17.43 MHz, and the 99% channel bandwidth for 40MHz signals is 35.96 MHz and 80MHz signals is 75.12MHz. Uncertainty

802.11n-20 BW



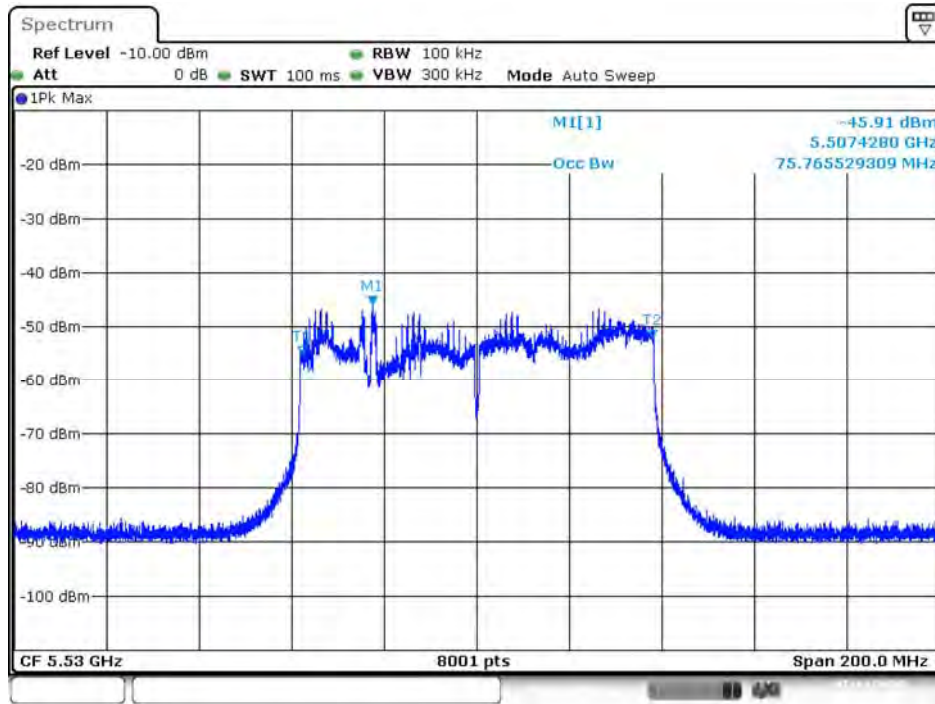
Date: 14.JUL.2020 15:02:18

802.11n-40 BW



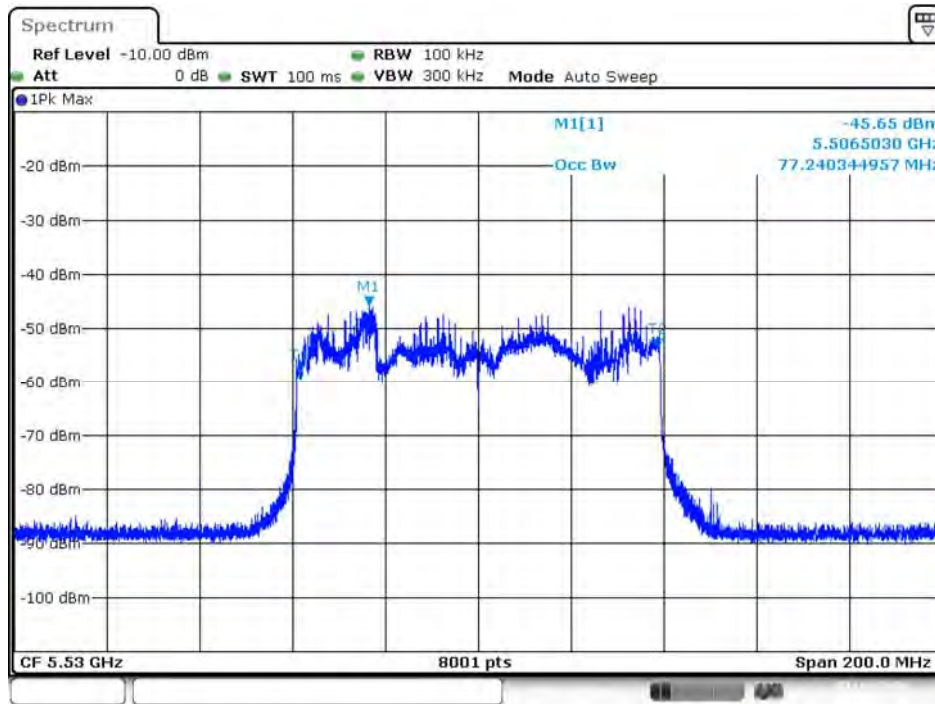
Date: 14.JUL.2020 14:42:56

802.11ac80 BW



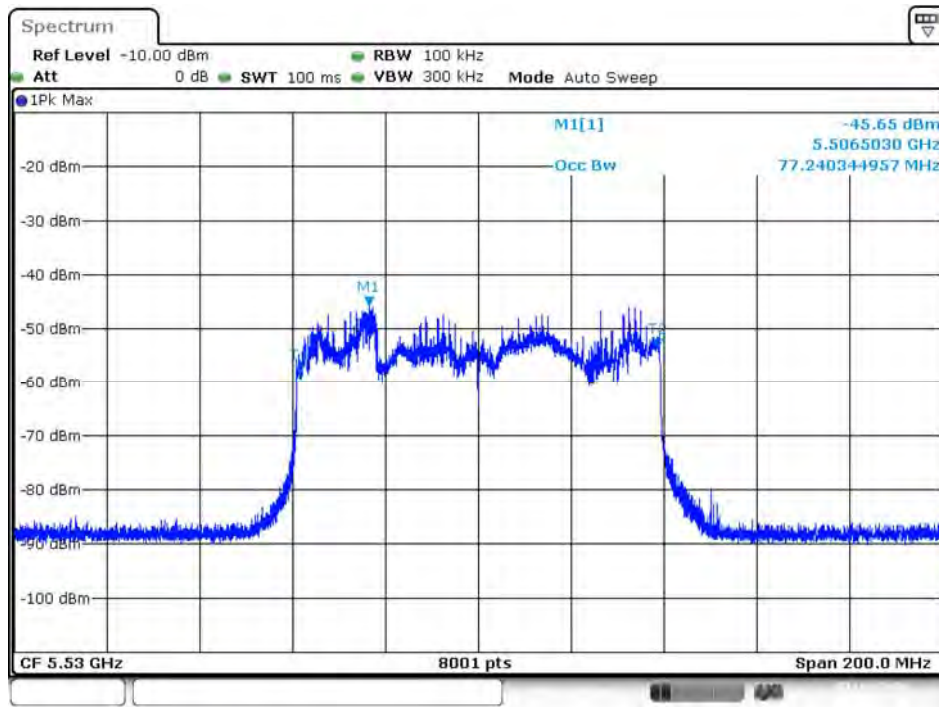
Date: 14.JUL.2020 14:40:44

802.11ax80 BW



Date: 14.JUL.2020 15:22:57

802.11ax80 BW-Beamforming



Date: 14.JUL.2020 15:22:57

2.3. Test Result of UNII Detection Bandwidth

Product : LV55
 Test Item : UNII Detection Bandwidth
 Radar Type : Type 0
 Test Date : 2020/08/10
 Test Mode : Mode 1: Transmit (802.11n-20BW)-CDD

Test Channel: 5500MHz (n-20BW)											
Radar Frequency (MHz)	DFS Detection Trials (1= Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5490 (FL)	1	1	1	1	1	0	1	1	1	1	90.00
5491	1	1	1	1	1	1	1	1	1	1	100.00
5492	1	1	1	1	1	1	1	1	1	1	100.00
5493	1	1	1	1	1	1	1	1	1	1	100.00
5494	1	1	1	1	1	1	1	1	1	1	100.00
5495	1	1	1	1	1	1	1	1	1	1	100.00
5496	1	1	1	1	1	1	1	1	1	1	100.00
5497	1	0	1	1	1	1	1	1	1	1	90.00
5498	1	1	1	1	1	1	1	1	1	1	100.00
5499	1	1	1	1	1	1	1	1	1	1	100.00
5500	1	1	1	1	1	1	1	1	1	1	100.00
5501	1	1	1	1	1	1	1	1	1	1	100.00
5502	1	1	1	1	1	1	1	1	1	1	100.00
5503	1	1	1	1	1	1	1	1	1	1	100.00
5504	1	1	1	1	1	1	1	1	1	1	100.00
5505	1	1	1	1	1	1	1	1	1	1	100.00
5506	1	1	1	1	1	1	1	1	0	1	90.00
5507	1	1	1	1	1	1	1	1	1	1	100.00
5508 (FH)	1	1	1	1	1	1	1	1	0	1	90.00
5509	1	1	1	1	1	0	1	0	1	0	70.00
5510	0	0	0	0	0	0	0	0	0	0	0.00
Detection Bandwidth = FH - FL = 5508MHz - 5490MHz = 18MHz											
EUT 99% Bandwidth = 17.58MHz											
UNII Detection Bandwidth Min. Limit = 17.58MHz * 100% =17.58MHz											

Product : LV55
 Test Item : UNII Detection Bandwidth
 Radar Type : Type 0
 Test Date : 2020/08/10
 Test Mode : Mode 2: Transmit (802.11n-40BW)-CDD

Test Channel: 5510MHz (n-40BW)											
Radar Frequency (MHz)	DFS Detection Trials (1= Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5490 (FL)	1	0	1	1	1	1	1	1	1	1	90.00
5491	1	1	1	1	1	1	1	1	1	1	100.00
5492	1	1	1	1	1	1	1	1	1	1	100.00
5493	0	1	1	1	1	1	1	1	1	1	90.00
5494	1	1	1	1	1	1	1	1	1	1	100.00
5495	1	1	1	1	1	1	1	1	1	1	100.00
5496	1	1	1	1	1	1	1	1	1	1	100.00
5497	1	1	1	1	1	1	1	1	1	1	100.00
5498	1	1	1	1	1	1	1	1	1	1	100.00
5499	1	1	1	1	1	1	1	1	1	1	100.00
5500	1	1	1	1	1	1	1	1	1	1	100.00
5501	1	1	1	1	1	1	1	1	1	1	100.00
5502	1	1	1	1	1	1	1	1	1	1	100.00
5503	1	1	1	1	1	1	1	1	1	1	100.00
5504	1	1	1	1	1	1	1	1	1	1	100.00
5505	1	1	1	1	1	1	1	1	1	1	100.00
5506	1	1	1	1	1	1	1	1	1	1	100.00
5507	1	1	1	1	1	1	1	1	1	1	100.00
5508	1	1	1	1	1	1	1	1	1	1	100.00
5509	1	1	1	1	1	1	1	1	1	1	100.00
5510	1	1	1	1	1	1	1	1	1	1	100.00
5511	1	1	1	1	1	1	1	1	1	1	100.00
5512	1	1	1	1	1	1	1	1	1	1	100.00
5513	1	1	1	1	1	1	1	1	1	1	100.00
5514	1	1	1	1	1	1	1	1	1	1	100.00
5515	1	1	1	1	1	1	1	1	1	1	100.00
5516	1	1	1	1	1	1	1	1	1	1	100.00

5517	1	1	1	1	1	1	1	1	1	1	100.00
5518	1	1	1	1	1	1	1	1	1	1	100.00
5519	1	1	1	1	1	1	1	1	1	1	100.00
5520	1	1	1	1	1	1	1	1	1	1	100.00
5521	1	1	1	1	1	1	1	1	1	1	100.00
5522	1	1	1	1	1	1	1	1	1	1	100.00
5523	1	1	1	1	1	1	1	1	1	1	100.00
5524	1	1	1	1	1	1	1	1	1	1	100.00
5525	1	1	1	1	1	1	1	1	1	1	100.00
5526	1	1	1	1	1	1	1	1	1	1	100.00
5527 (FH)	1	1	1	1	1	1	1	1	1	1	100.00
5528	1	1	0	0	0	1	1	1	1	1	70.00
5529	1	1	0	0	0	1	0	0	0	0	30.00
5530	0	0	0	0	0	0	0	0	0	0	0.00
Detection Bandwidth = FH - FL = 5527MHz - 5490MHz = 37MHz											
EUT 99% Bandwidth = 36.13MHz											
UNII Detection Bandwidth Min. Limit = 36.13MHz * 100% = 36.13MHz											

Product : LV55
 Test Item : UNII Detection Bandwidth
 Radar Type : Type 0
 Test Date : 2020/08/10
 Test Mode : Mode 3: Transmit (802.11ac-80BW)-CDD

Test Channel: 5530MHz (ac-80BW)											
Radar Frequency (MHz)	DFS Detection Trials (1= Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5490	0	0	0	0	0	0	0	0	0	0	0.00
5491	1	1	0	0	1	0	0	0	0	0	30.00
5492 (FL)	1	1	1	1	1	1	1	1	1	1	100.00
5493	1	1	1	1	1	1	1	1	1	1	100.00
5494	1	1	1	1	1	1	1	1	1	1	100.00
5495	1	1	1	1	1	1	1	1	1	1	100.00
5496	1	1	1	1	1	1	1	1	1	1	100.00
5497	1	1	1	1	1	1	1	1	1	1	100.00
5498	1	1	1	1	1	1	1	1	1	1	100.00
5499	1	1	1	1	1	1	1	1	1	1	100.00
5500	1	1	1	1	1	1	1	1	1	1	100.00
5501	1	1	1	1	1	1	1	1	1	1	100.00
5502	1	1	1	1	1	1	1	1	1	1	100.00
5503	1	1	1	1	1	1	1	1	1	1	100.00
5504	1	1	1	1	1	1	1	1	1	1	100.00
5505	1	1	1	1	1	1	1	1	1	1	100.00
5506	1	1	1	1	1	1	1	1	1	1	100.00
5507	1	1	1	1	1	1	1	1	1	1	100.00
5508	1	1	1	1	1	1	1	1	1	1	100.00
5509	1	1	1	1	1	1	1	1	1	1	100.00
5510	1	1	1	1	1	1	1	1	1	1	100.00
5511	1	1	1	1	1	1	1	1	1	1	100.00
5512	1	1	1	1	1	1	1	1	1	1	100.00
5513	1	1	1	1	1	1	1	1	1	1	100.00
5514	1	1	1	1	1	1	1	1	1	1	100.00
5515	1	1	1	1	1	1	1	1	1	1	100.00
5516	1	1	1	1	1	1	1	1	1	1	100.00

5517	1	1	1	1	1	1	1	1	1	1	100.00
5518	1	1	1	1	1	1	1	1	1	1	100.00
5519	1	1	1	1	1	1	1	1	1	1	100.00
5520	1	1	1	1	1	1	1	1	1	1	100.00
5521	1	1	1	1	1	1	1	1	1	1	100.00
5522	1	1	1	1	1	1	1	1	1	1	100.00
5523	1	1	1	1	1	1	1	1	1	1	100.00
5524	1	1	1	1	1	1	1	1	1	1	100.00
5525	1	1	1	1	1	1	1	1	1	1	100.00
5526	1	1	1	1	1	1	1	1	1	1	100.00
5527	1	1	1	1	1	1	1	1	1	1	100.00
5528	1	1	1	1	1	1	1	1	1	1	100.00
5529	1	1	1	1	1	1	1	1	1	1	100.00
5530	1	1	1	1	1	1	1	1	1	1	100.00
5531	1	1	1	1	1	1	1	1	1	1	100.00
5532	1	1	1	1	1	1	1	1	1	1	100.00
5533	1	1	1	1	1	1	1	1	1	1	100.00
5534	1	1	1	1	1	1	1	1	1	1	100.00
5535	1	1	1	1	1	1	1	1	1	1	100.00
5536	1	1	1	1	1	1	1	1	1	1	100.00
5537	1	1	1	1	1	1	1	1	1	1	100.00
5538	1	1	1	1	1	1	1	1	1	1	100.00
5539	1	1	1	1	1	1	1	1	1	1	100.00
5540	1	1	1	1	1	1	1	1	1	1	100.00
5541	1	1	1	1	1	1	1	1	1	1	100.00
5542	1	1	1	1	1	1	1	1	1	1	100.00
5543	1	1	1	1	1	1	1	1	1	1	100.00
5544	1	1	1	1	1	1	1	1	1	1	100.00
5545	1	1	1	1	1	1	1	1	1	1	100.00
5546	1	1	1	1	1	1	1	1	1	1	100.00
5547	1	1	1	1	1	1	1	1	1	1	100.00
5548	1	1	1	1	1	1	1	1	1	1	100.00
5549	1	1	1	1	1	1	1	1	1	1	100.00
5550	1	1	1	1	1	1	1	1	1	1	100.00
5551	1	1	1	1	1	1	1	1	1	1	100.00
5552	1	1	1	1	1	1	1	1	1	1	100.00
5553	1	1	1	1	1	1	1	1	1	1	100.00

5554	1	1	1	1	1	1	1	1	1	1	100.00
5555	1	1	1	1	1	1	1	1	1	1	100.00
5556	1	1	1	1	1	1	1	1	1	1	100.00
5557	1	1	1	1	1	1	1	1	1	1	100.00
5558	1	1	1	1	1	1	1	1	1	1	100.00
5559	1	1	1	1	1	1	1	1	1	1	100.00
5560	1	1	1	1	1	1	1	1	1	1	100.00
5561	1	1	1	1	1	1	1	1	1	1	100.00
5562	1	1	1	1	1	1	1	1	1	1	100.00
5563	1	1	1	1	1	1	1	1	1	1	100.00
5564	1	1	1	1	1	1	1	1	1	1	100.00
5565	1	1	1	1	1	1	1	1	1	1	100.00
5566	1	1	1	1	1	1	1	1	1	1	100.00
5567	1	1	1	1	1	1	1	1	1	1	100.00
5568	1	1	1	1	1	1	1	1	1	1	100.00
5569 (FH)	1	1	1	1	1	1	1	1	1	1	100.00
5570	0	0	0	0	0	0	0	0	0	0	0.00
Detection Bandwidth = FH - FL = 5569MHz - 5492MHz = 77MHz											
EUT 99% Bandwidth = 75.76MHz											
UNII Detection Bandwidth Min. Limit = 75.76MHz X 100% =75.76MHz											

Product : LV55
 Test Item : UNII Detection Bandwidth
 Radar Type : Type 0
 Test Date : 2020/08/10
 Test Mode : Mode 4: Transmit (802.11ax-80BW)-CDD

Test Channel: 5530MHz (ax-80BW)											
Radar Frequency (MHz)	DFS Detection Trials (1= Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5490	1	0	0	1	0	0	0	0	1	0	30.00
5491 (FL)	1	1	1	1	1	1	1	1	1	1	100.00
5492	1	1	0	1	1	1	1	1	1	1	90.00
5493	1	1	1	1	1	1	1	1	1	1	100.00
5494	1	1	1	1	1	1	1	1	1	1	100.00
5495	1	1	1	1	1	1	1	1	1	1	100.00
5496	1	0	1	1	1	1	1	1	1	1	90.00
5497	1	1	1	1	1	1	1	1	1	1	100.00
5498	1	1	1	1	1	1	1	1	1	1	100.00
5499	1	1	1	1	1	1	1	1	1	1	100.00
5500	1	1	1	1	1	1	1	1	1	1	100.00
5501	1	1	1	1	1	1	1	1	1	1	100.00
5502	1	1	1	1	1	1	1	1	1	1	100.00
5503	1	1	1	1	1	1	1	1	1	1	100.00
5504	1	1	1	1	1	1	1	1	1	1	100.00
5505	1	1	1	1	1	1	1	1	1	1	100.00
5506	1	1	1	1	1	1	1	1	1	1	100.00
5507	1	1	1	1	1	1	1	1	1	1	100.00
5508	1	1	1	1	1	1	1	1	1	1	100.00
5509	1	1	1	1	1	1	1	1	1	1	100.00
5510	1	1	1	1	1	1	1	1	1	1	100.00
5511	1	1	1	1	1	1	1	1	1	1	100.00
5512	1	1	1	1	1	1	1	1	1	1	100.00
5513	1	1	1	1	1	1	1	1	1	1	100.00
5514	1	1	1	1	1	1	1	1	1	1	100.00
5515	1	1	1	1	1	1	1	1	1	1	100.00
5516	1	1	1	1	1	1	1	1	1	1	100.00

5517	1	1	1	1	1	1	1	1	1	1	100.00
5518	1	1	1	1	1	1	1	1	1	1	100.00
5519	1	1	1	1	1	1	1	1	1	1	100.00
5520	1	1	1	1	1	1	1	1	1	1	100.00
5521	1	1	1	1	1	1	1	1	1	1	100.00
5522	1	1	1	1	1	1	1	1	1	1	100.00
5523	1	1	1	1	1	1	1	1	1	1	100.00
5524	1	1	1	1	1	1	1	1	1	1	100.00
5525	1	1	1	1	1	1	1	1	1	1	100.00
5526	1	1	1	1	1	1	1	1	1	1	100.00
5527	1	1	1	1	1	1	1	1	1	1	100.00
5528	1	1	1	1	1	1	1	1	1	1	100.00
5529	1	1	1	1	1	1	1	1	1	1	100.00
5530	1	1	1	1	1	1	1	1	1	1	100.00
5531	1	1	1	1	1	1	1	1	1	1	100.00
5532	1	1	1	1	1	1	1	1	1	1	100.00
5533	1	1	1	1	1	1	1	1	1	1	100.00
5534	1	1	1	1	1	1	1	1	1	1	100.00
5535	1	1	1	1	1	1	1	1	1	1	100.00
5536	1	1	1	1	1	1	1	1	1	1	100.00
5537	1	1	1	1	1	1	1	1	1	1	100.00
5538	1	1	1	1	1	1	1	1	1	1	100.00
5539	1	1	1	1	1	1	1	1	1	1	100.00
5540	1	1	1	1	1	1	1	1	1	1	100.00
5541	1	1	1	1	1	1	1	1	1	1	100.00
5542	1	1	1	1	1	1	1	1	1	1	100.00
5543	1	1	1	1	1	1	1	1	1	1	100.00
5544	1	1	1	1	1	1	1	1	1	1	100.00
5545	1	1	1	1	1	1	1	1	1	1	100.00
5546	1	1	1	1	1	1	1	1	1	1	100.00
5547	1	1	1	1	1	1	1	1	1	1	100.00
5548	1	1	1	1	1	1	1	1	1	1	100.00
5549	1	1	1	1	1	1	1	1	1	1	100.00
5550	1	1	1	1	1	1	1	1	1	1	100.00
5551	1	1	1	1	1	1	1	1	1	1	100.00
5552	1	1	1	1	1	1	1	1	1	1	100.00
5553	1	1	1	1	1	1	1	1	1	1	100.00

5554	1	1	1	1	1	1	1	1	1	1	100.00
5555	1	1	1	1	1	1	1	1	1	1	100.00
5556	1	1	1	1	1	1	1	1	1	1	100.00
5557	1	1	1	1	1	1	1	1	1	1	100.00
5558	1	1	1	1	1	1	1	1	1	1	100.00
5559	1	1	1	1	1	1	1	1	1	1	100.00
5560	1	1	1	1	1	1	1	1	1	1	100.00
5561	1	1	1	1	1	1	1	1	1	1	100.00
5562	1	1	1	1	1	1	1	1	1	1	100.00
5563	1	1	1	1	1	1	1	1	1	1	100.00
5564	1	1	1	1	1	1	1	1	1	1	100.00
5565	1	1	1	1	1	1	1	1	1	1	100.00
5566	1	1	1	1	1	1	1	1	1	1	100.00
5567	1	1	1	1	1	0	1	1	1	1	90.00
5568	1	1	1	1	1	1	1	1	1	1	100.00
5569 (FH)	1	1	0	1	1	1	1	1	1	1	90.00
5570	0	0	0	0	0	0	0	0	0	0	0.00
Detection Bandwidth = FH - FL = 5569MHz - 5491MHz = 78MHz											
EUT 99% Bandwidth = 77.24MHz											
UNII Detection Bandwidth Min. Limit = 77.24MHz X 100% =77.24MHz											

Product : LV55
 Test Item : UNII Detection Bandwidth
 Radar Type : Type 0
 Test Date : 2020/08/27
 Test Mode : Mode 5: Transmit (802.11ax-80BW)-Beamforming

Test Channel: 5530MHz (ax-80BW)											
Radar Frequency (MHz)	DFS Detection Trials (1= Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5490	0	0	0	0	0	0	0	0	0	0	0.00
5491 (FL)	1	1	1	0	1	1	1	1	1	1	90.00
5492	1	1	1	1	1	1	1	1	1	1	100.00
5493	1	1	1	1	1	1	1	1	1	1	100.00
5494	1	1	1	1	1	1	1	1	1	1	100.00
5495	1	1	1	1	1	1	1	1	1	1	100.00
5496	1	1	1	1	1	1	1	1	1	1	100.00
5497	1	1	1	1	1	1	1	1	1	1	100.00
5498	1	1	1	1	1	1	1	1	1	1	100.00
5499	1	1	1	1	1	1	1	1	1	1	100.00
5500	1	1	1	1	1	1	1	1	1	1	100.00
5501	1	1	1	1	1	1	1	1	1	1	100.00
5502	1	1	1	1	1	1	1	1	1	1	100.00
5503	1	1	1	1	1	1	1	1	1	1	100.00
5504	1	1	1	1	1	1	1	1	1	1	100.00
5505	1	1	1	1	1	1	1	1	1	1	100.00
5506	1	1	1	1	1	1	1	1	1	1	100.00
5507	1	1	1	1	1	1	1	1	1	1	100.00
5508	1	1	1	1	1	1	1	1	1	1	100.00
5509	1	1	1	1	1	1	1	1	1	1	100.00
5510	1	1	1	1	1	1	1	1	1	1	100.00
5511	1	1	1	1	1	1	1	1	1	1	100.00
5512	1	1	1	1	1	1	1	1	1	1	100.00
5513	1	1	1	1	1	1	1	1	1	1	100.00
5514	1	1	1	1	1	1	1	1	1	1	100.00
5515	1	1	1	1	1	1	1	1	1	1	100.00
5516	1	1	1	1	1	1	1	1	1	1	100.00

5517	1	1	1	1	1	1	1	1	1	1	100.00
5518	1	1	1	1	1	1	1	1	1	1	100.00
5519	1	1	1	1	1	1	1	1	1	1	100.00
5520	1	1	1	1	1	1	1	1	1	1	100.00
5521	1	1	1	1	1	1	1	1	1	1	100.00
5522	1	1	1	1	1	1	1	1	1	1	100.00
5523	1	1	1	1	1	1	1	1	1	1	100.00
5524	1	1	1	1	1	1	1	1	1	1	100.00
5525	1	1	1	1	1	1	1	1	1	1	100.00
5526	1	1	1	1	1	1	1	1	1	1	100.00
5527	1	1	1	1	1	1	1	1	1	1	100.00
5528	1	1	1	1	1	1	1	1	1	1	100.00
5529	1	1	1	1	1	1	1	1	1	1	100.00
5530	1	1	1	1	1	1	1	1	1	1	100.00
5531	1	1	1	1	1	1	1	1	1	1	100.00
5532	1	1	1	1	1	1	1	1	1	1	100.00
5533	1	1	1	1	1	1	1	1	1	1	100.00
5534	1	1	1	1	1	1	1	1	1	1	100.00
5535	1	1	1	1	1	1	1	1	1	1	100.00
5536	1	1	1	1	1	1	1	1	1	1	100.00
5537	1	1	1	1	1	1	1	1	1	1	100.00
5538	1	1	1	1	1	1	1	1	1	1	100.00
5539	1	1	1	1	1	1	1	1	1	1	100.00
5540	1	1	1	1	1	1	1	1	1	1	100.00
5541	1	1	1	1	1	1	1	1	1	1	100.00
5542	1	1	1	1	1	1	1	1	1	1	100.00
5543	1	1	1	1	1	1	1	1	1	1	100.00
5544	1	1	1	1	1	1	1	1	1	1	100.00
5545	1	1	1	1	1	1	1	1	1	1	100.00
5546	1	1	1	1	1	1	1	1	1	1	100.00
5547	1	1	1	1	1	1	1	1	1	1	100.00
5548	1	1	1	1	1	1	1	1	1	1	100.00
5549	1	1	1	1	1	1	1	1	1	1	100.00
5550	1	1	1	1	1	1	1	1	1	1	100.00
5551	1	1	1	1	1	1	1	1	1	1	100.00
5552	1	1	1	1	1	1	1	1	1	1	100.00
5553	1	1	1	1	1	1	1	1	1	1	100.00

5554	1	1	1	1	1	1	1	1	1	1	100.00
5555	1	1	1	1	1	1	1	1	1	1	100.00
5556	1	1	1	1	1	1	1	1	1	1	100.00
5557	1	1	1	1	1	1	1	1	1	1	100.00
5558	1	1	1	1	1	1	1	1	1	1	100.00
5559	1	1	1	1	1	1	1	1	1	1	100.00
5560	1	1	1	1	1	1	1	1	1	1	100.00
5561	1	1	1	1	1	1	1	1	1	1	100.00
5562	1	1	1	1	1	1	1	1	1	1	100.00
5563	1	1	1	1	1	1	1	1	1	1	100.00
5564	1	1	1	1	1	1	1	1	1	1	100.00
5565	1	1	1	1	1	1	1	1	1	1	100.00
5566	1	1	1	1	1	1	1	1	1	1	100.00
5567	1	1	1	1	1	1	1	1	1	1	100.00
5568	1	1	1	1	0	1	1	1	1	1	90.00
5569 (FH)	1	1	0	1	1	1	1	1	1	1	90.00
5570	0	0	0	1	0	0	0	0	0	0	10.00
Detection Bandwidth = FH - FL = 5569MHz - 5491MHz = 78MHz											
EUT 99% Bandwidth = 77.24MHz											
UNII Detection Bandwidth Min. Limit = 77.24MHz X 100% =77.24MHz											

3. Initial Channel Availability Check Time

3.1. Test Procedure

The EUT was tested according to U-NII test procedure of KDB905462 D02 for compliance to FCC 47CFR 15.407 requirements.

The U-NII device is powered on and instructed to operate at 5530MHz. At the same time the UUT is powered on, the spectrum analyzer is set to zero span mode with a 3 MHz resolution bandwidth at 5530MHz with a 2.5minute sweep time. The analyzer's sweep will be started the same time power is applied to the U-NII device.

The EUT should not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle.

The initial power up time of the EUT is indicated by marker1 in the plot, Initial beacons/data transmissions are indicated by marker 1R.

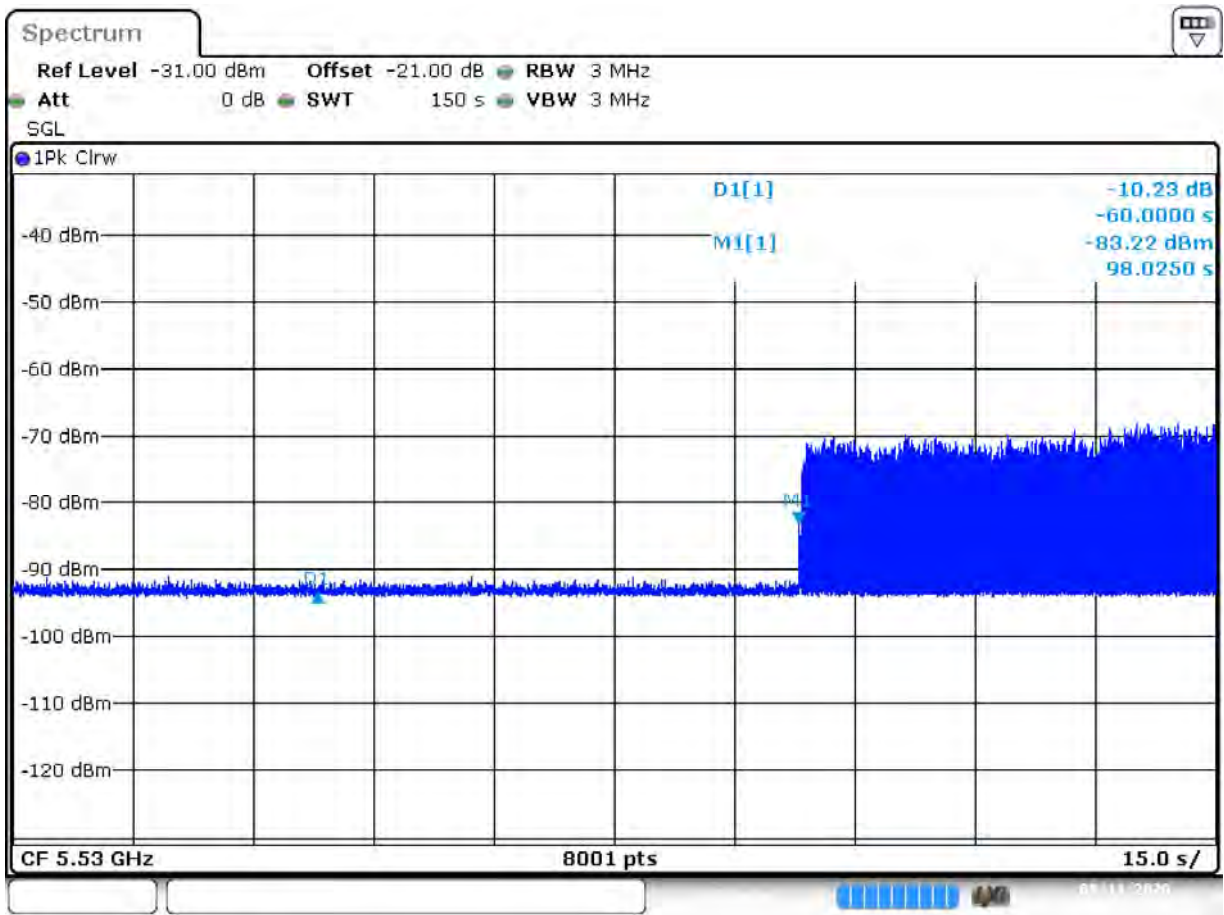
3.2. Test Requirement

The EUT shall perform a channel availability check to ensure that there is no radar operation on the channel, after power-up sequence, receiver at least 1 minute on the intended operation frequency.

3.3. Test Result of Initial Channel Availability Check Time

Product : LV55
 Test Item : Initial Channel Availability Check Time
 Radar Type : --
 Test Mode : Mode 3: Transmit (802.11ac-80BW)-CDD

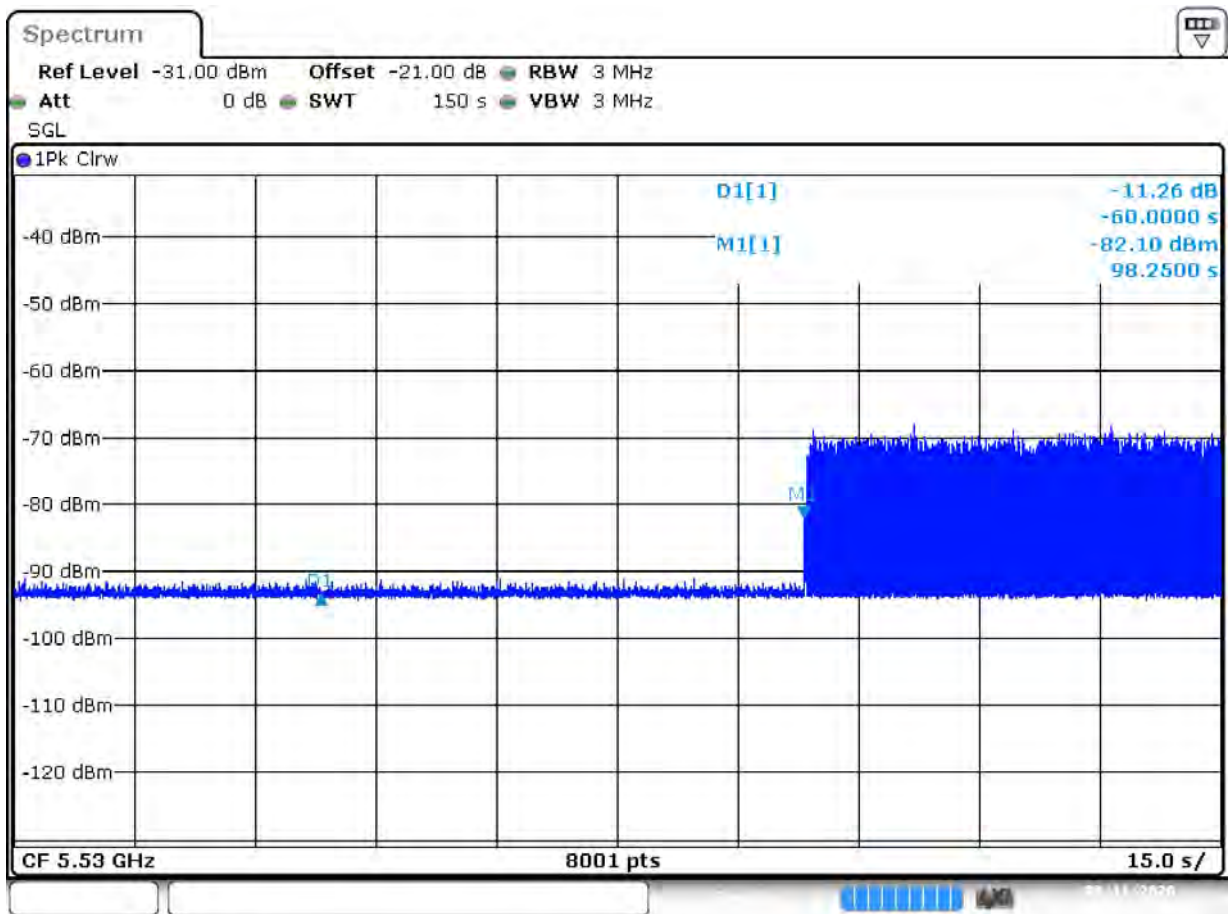
The EUT does not transmit any beacon or data transmission until at least 1 minute after the completion of the power-on cycle (38.025sec). The initial power up time of the EUT is indicated by Marker 1 (98.025 sec) – CAC (60 sec). Initial beacons/data transmission is indicated by Marker 1 (98.025sec)



Date: 11.AUG.2020 15:42:57

Product : LV55
Test Item : Initial Channel Availability Check Time
Radar Type : --
Test Mode : Mode 4: Transmit (802.11ax-80BW)-CDD

The EUT does not transmit any beacon or data transmission until at least 1 minute after the completion of the power-on cycle (38.25sec). The initial power up time of the EUT is indicated by Marker 1 (98.25 sec) – CAC (60 sec). Initial beacons/data transmission is indicated by Marker 1 (98.25 sec)



Date: 11.AUG.2020 15:24:28

4. Radar Burst at the Beginning of the Channel Availability Check Time

4.1. Test Procedure

The EUT was tested according to U-NII test procedure of KDB905462 D02 for compliance to FCC 47CFR 15.407 requirements.

The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB (-64dBm) occurs at the beginning of the Channel Availability Check Time.

The EUT is powered on at T0. T1 denotes the instant when the EUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than T1 + 60 seconds.

A single Burst of short pulse of radar type 1 at -63dBm will commence within a 6 second window starting at T1.

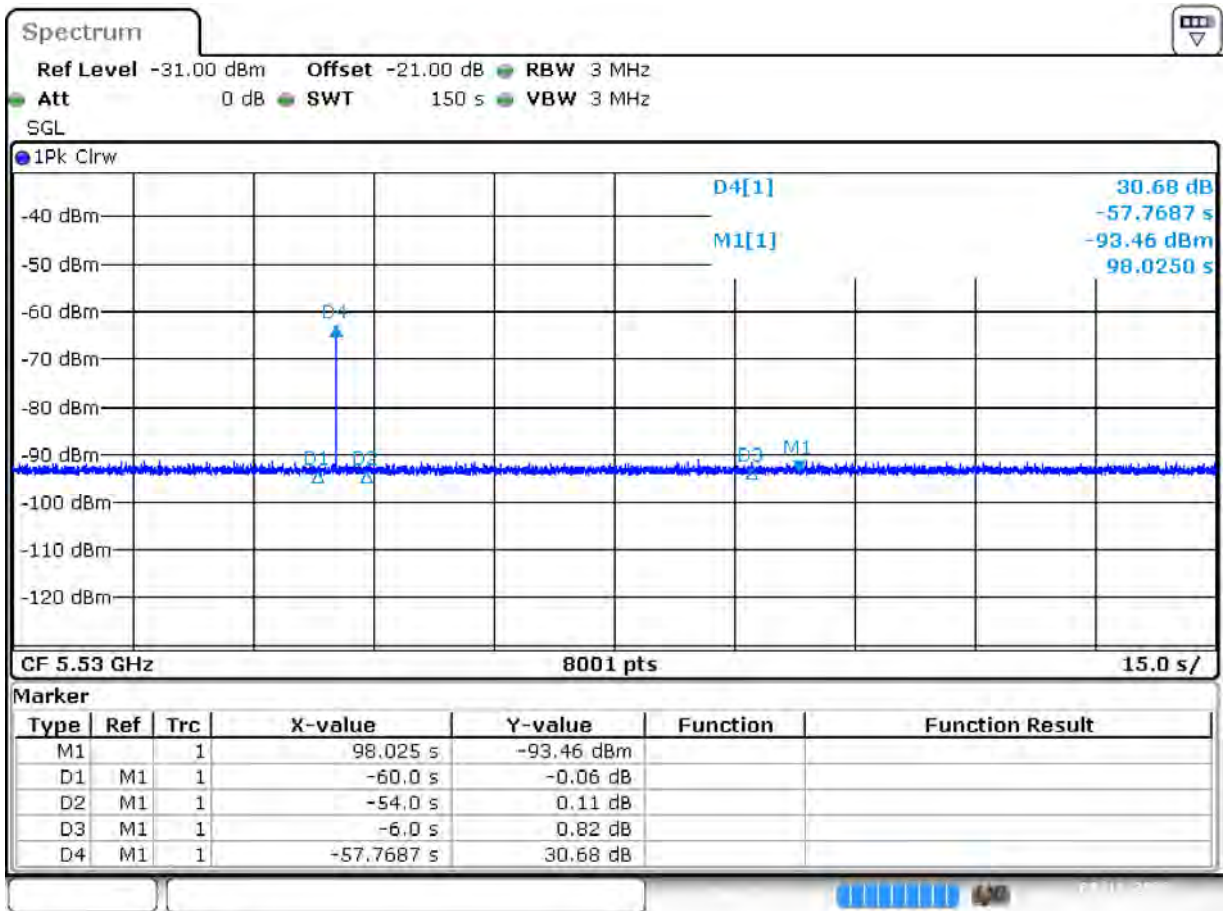
Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions at 5530MHz will continue for 2.5 minutes after the radar Burst, Verify that during the 2.5 minute measurement window no EUT transmissions occurred at 5530MHz.

4.2. Test Requirement

In beginning of the Channel Availability Check (CAC) Time, radar is detected on this channel, select another intended channel and perform a CAC that channel.

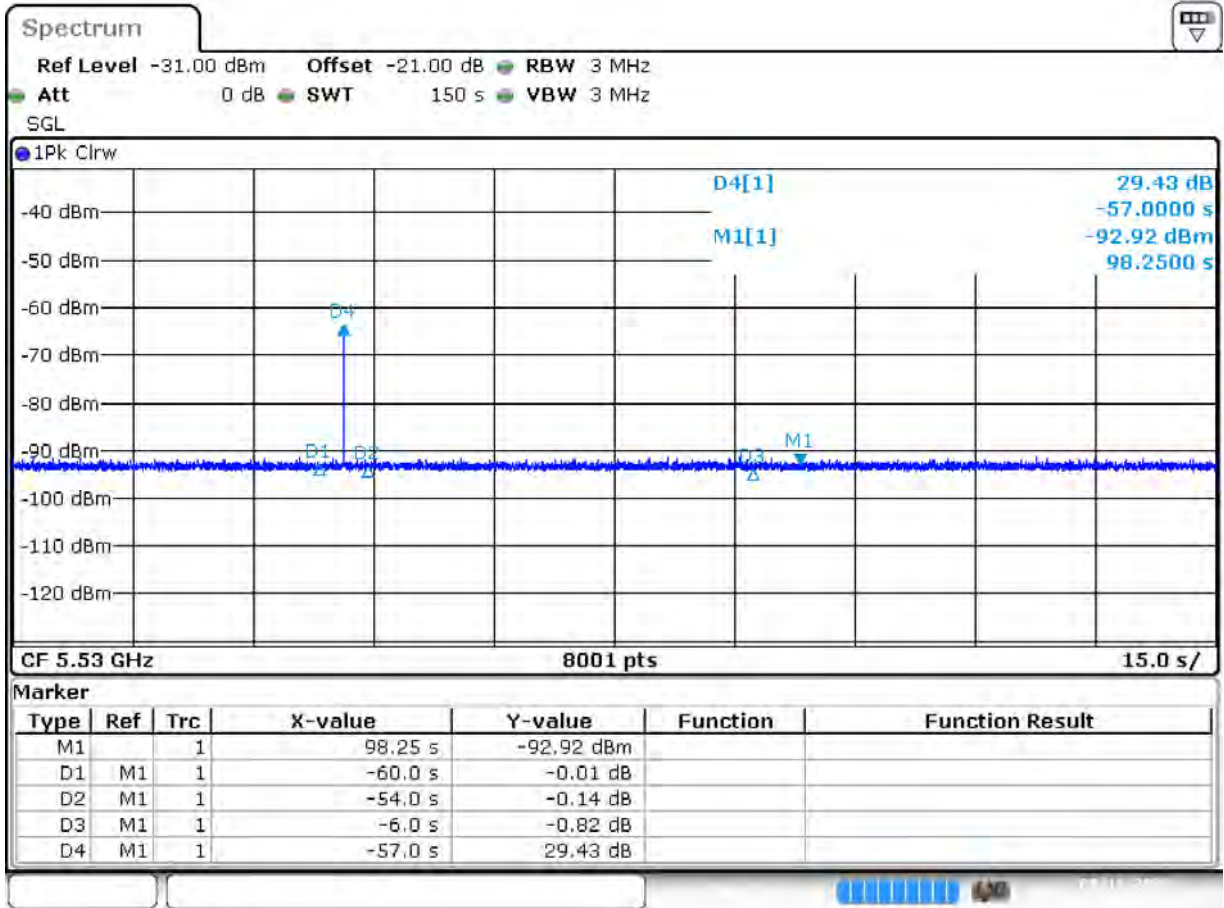
4.3. Test Result of Radar Burst at the Beginning of the Channel Availability Check Time

Product : LV55
 Test Item : Radar Burst at the Beginning of the Channel Availability Check Time
 Radar Type : Type 0
 Test Mode : Mode 3: Transmit (802.11ac-80BW)-CDD



Date: 11.AUG.2020 15:47:21

Product : LV55
 Test Item : Radar Burst at the Beginning of the Channel Availability Check Time
 Radar Type : Type 0
 Test Mode : Mode 4: Transmit (802.11ax-80BW)-CDD



Date: 11.AUG.2020 15:36:16

5. Radar Burst at the End of the Channel Availability Check Time

5.1. Test Procedure

The EUT was tested according to U-NII test procedure of KDB905462 D02 for compliance to FCC 47CFR 15.407 requirements.

The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB (-64dBm) occurs at the end of the Channel Availability Check Time.

The UUT is powered on at T_0 . T_1 denotes the instant when the UUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T_1 and will end no sooner than $T_1 + 60$ seconds. A single Burst of short pulse of radar type 1 at -61 dBm will commence within a 6 second window starting at $T_1 + 54$ seconds.

Visual indication on the UUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions at 5530MHz will continue for 2.5 minutes after the radar Burst has been generated.

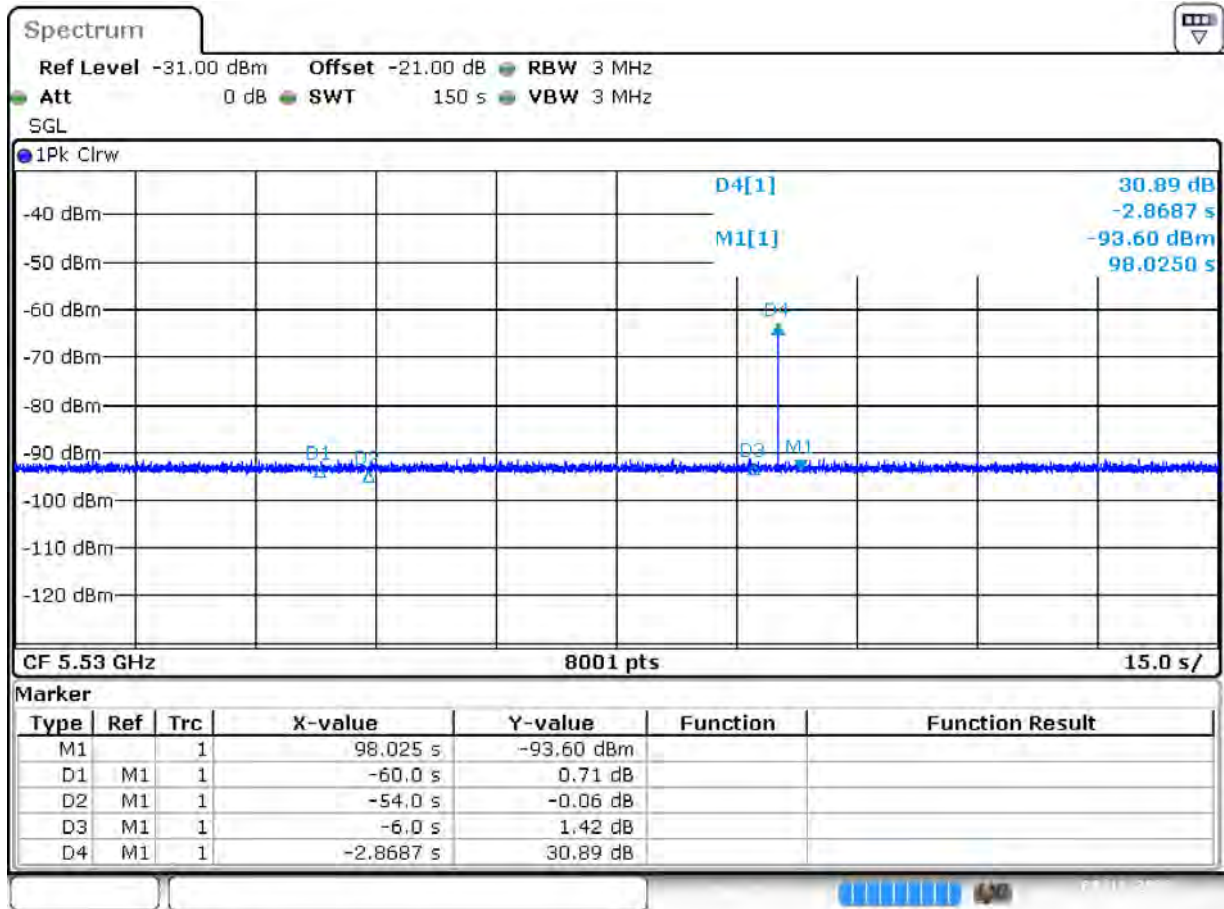
Verify that during the 2.5 minute measurement window no UUT transmissions occurred at 5530Hz.

5.2. Test Requirement

In the end of Channel Availability Check (CAC) Time, radar is detected on this channel, select another intended channel and perform a CAC that channel.

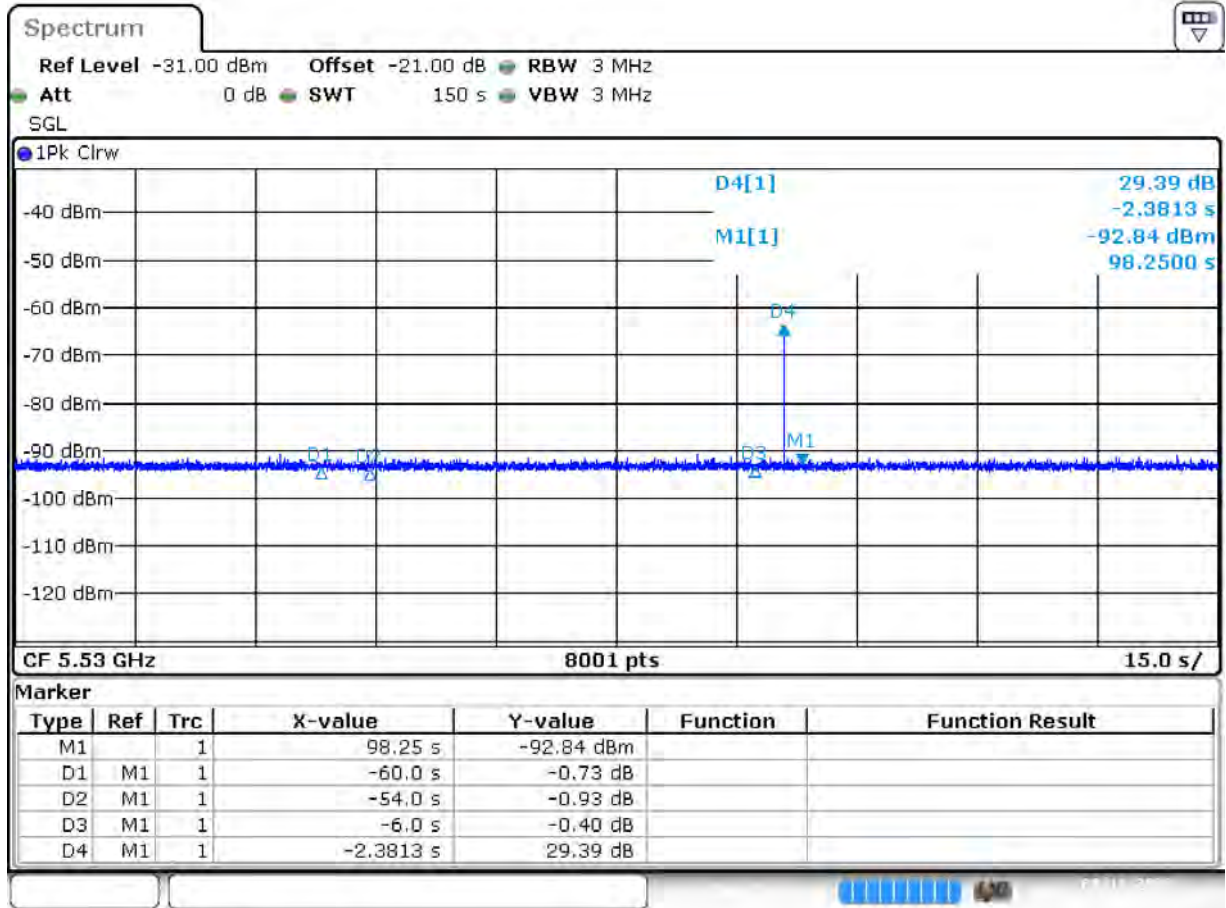
5.3. Test Result of Radar Burst at the End of the Channel Availability Check Time

Product : LV55
 Test Item : Radar Burst at the End of the Channel Availability Check Time
 Radar Type : Type 0
 Test Mode : Mode 3: Transmit (802.11ac-80BW)-CDD



Date: 11.AUG.2020 15:59:06

Product : LV55
 Test Item : Radar Burst at the End of the Channel Availability Check Time
 Radar Type : Type 0
 Test Mode : Mode 4: Transmit (802.11ax-80BW)-CDD



Date: 11.AUG.2020 15:27:25

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

6.1. Test Procedure

The EUT was tested according to U-NII test procedure of KDB905462 D02 for compliance to FCC 47CFR 15.407 requirements.

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 + 1dB (-63dBm) 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 5530MHz..

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 at -61dBm.

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 limits 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.

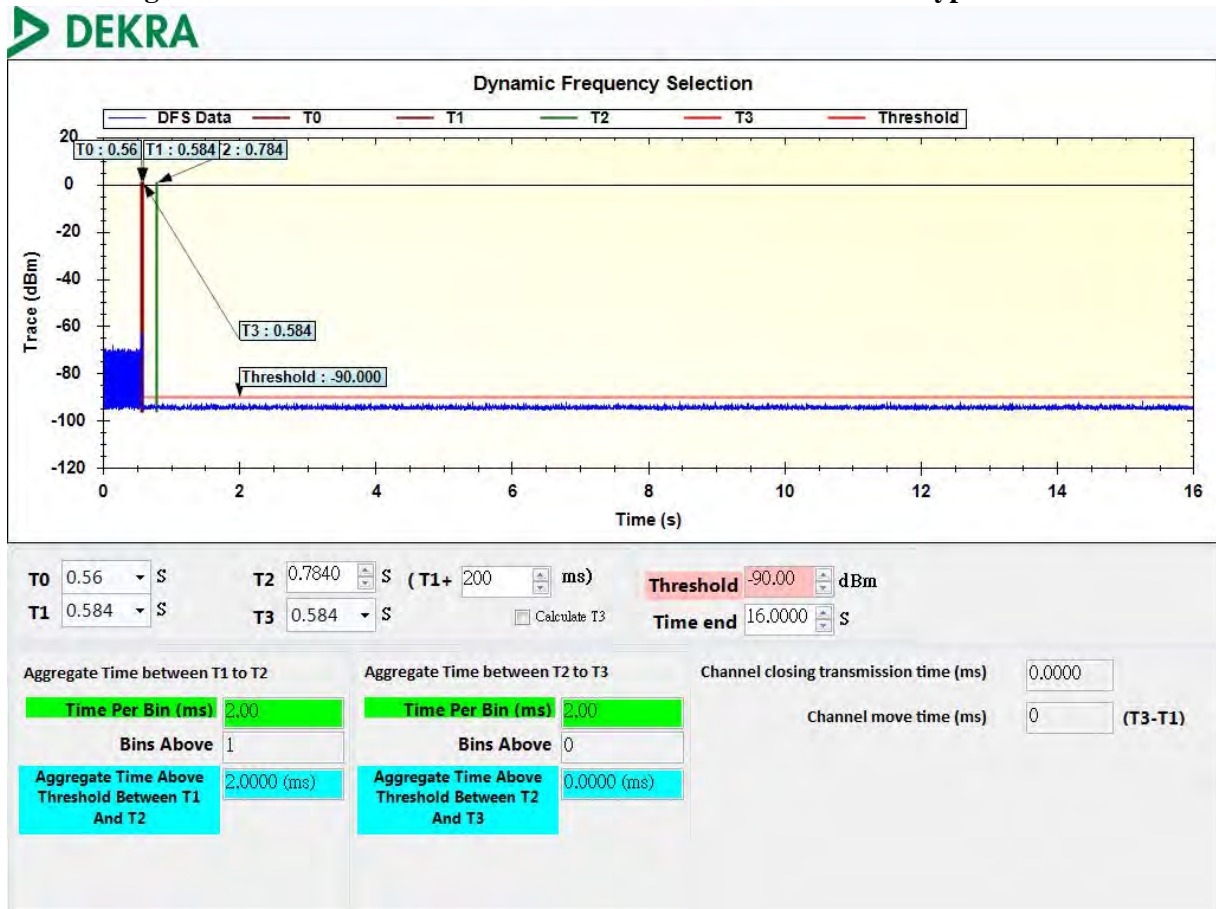
6.2. Test Requirement

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

6.3. Test Result of Channel Move Time and Channel Closing Transmission Time and Non-Occupancy Period

Product : LV55
 Test Item : Channel Move Time and Channel Closing Transmission Time
 Radar Type : Type 0
 Test Mode : Mode 3: Transmit (802.11ac-80BW)-CDD

Channel Closing Transmission Time and Channel Move Time for Radar Test Type 0 at 5530 MHz



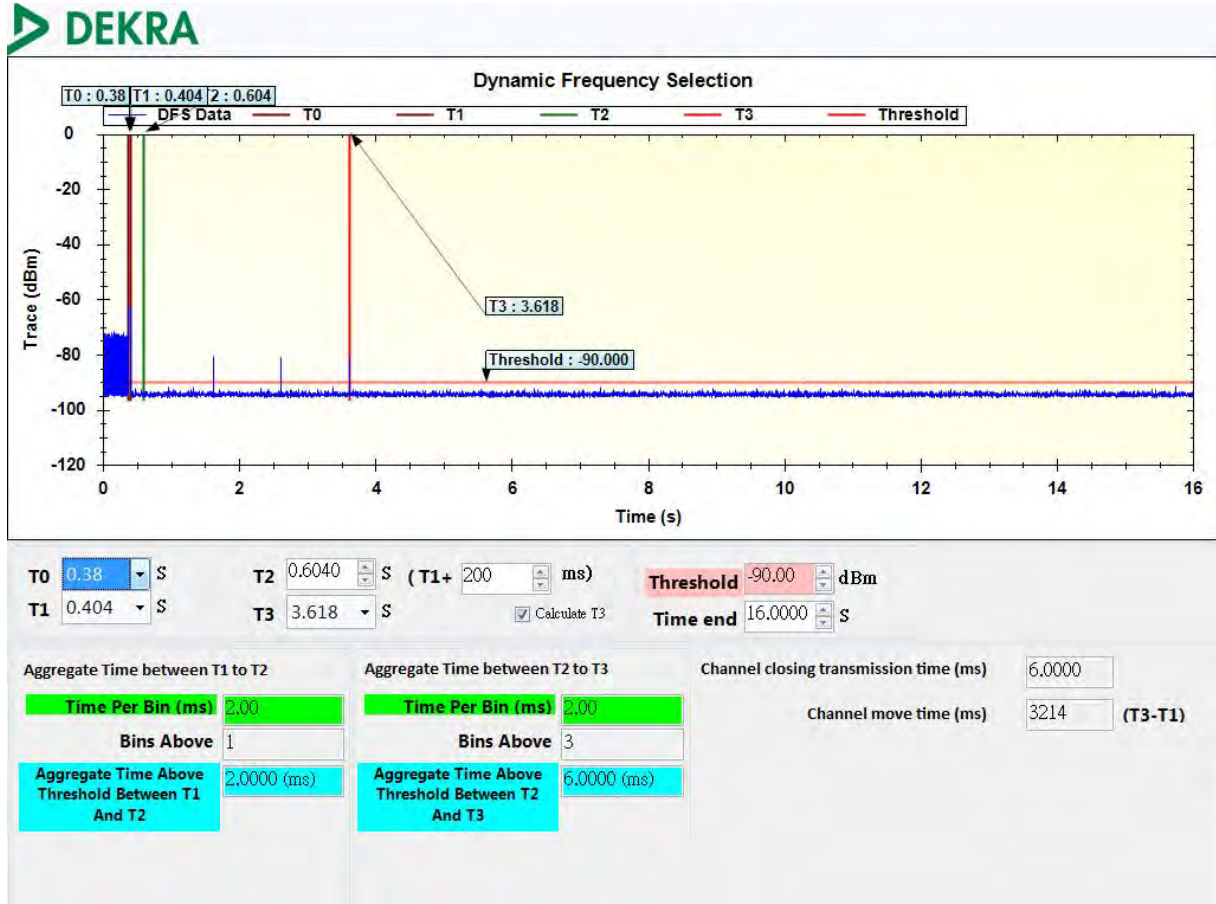
Test Item	Test Result (ms)	Limit
Channel Closing Transmission Time	0	200 milliseconds + approx. 60 milliseconds over remaining 10 seconds period
Channel Move Time	0	10 seconds

Note:

- The results showed that after radar signal injected the channel transmission closing time less than 200 milliseconds and an aggregate of no more than 60 milliseconds.
- The results showed that after radar signal injected the channel move time was less than 10 seconds.

Product : LV55
 Test Item : Channel Move Time and Channel Closing Transmission Time
 Radar Type : Type 0
 Test Mode : Mode 4: Transmit (802.11ax-80BW)-CDD

Channel Closing Transmission Time and Channel Move Time for Radar Test Type 0 at 5530 MHz



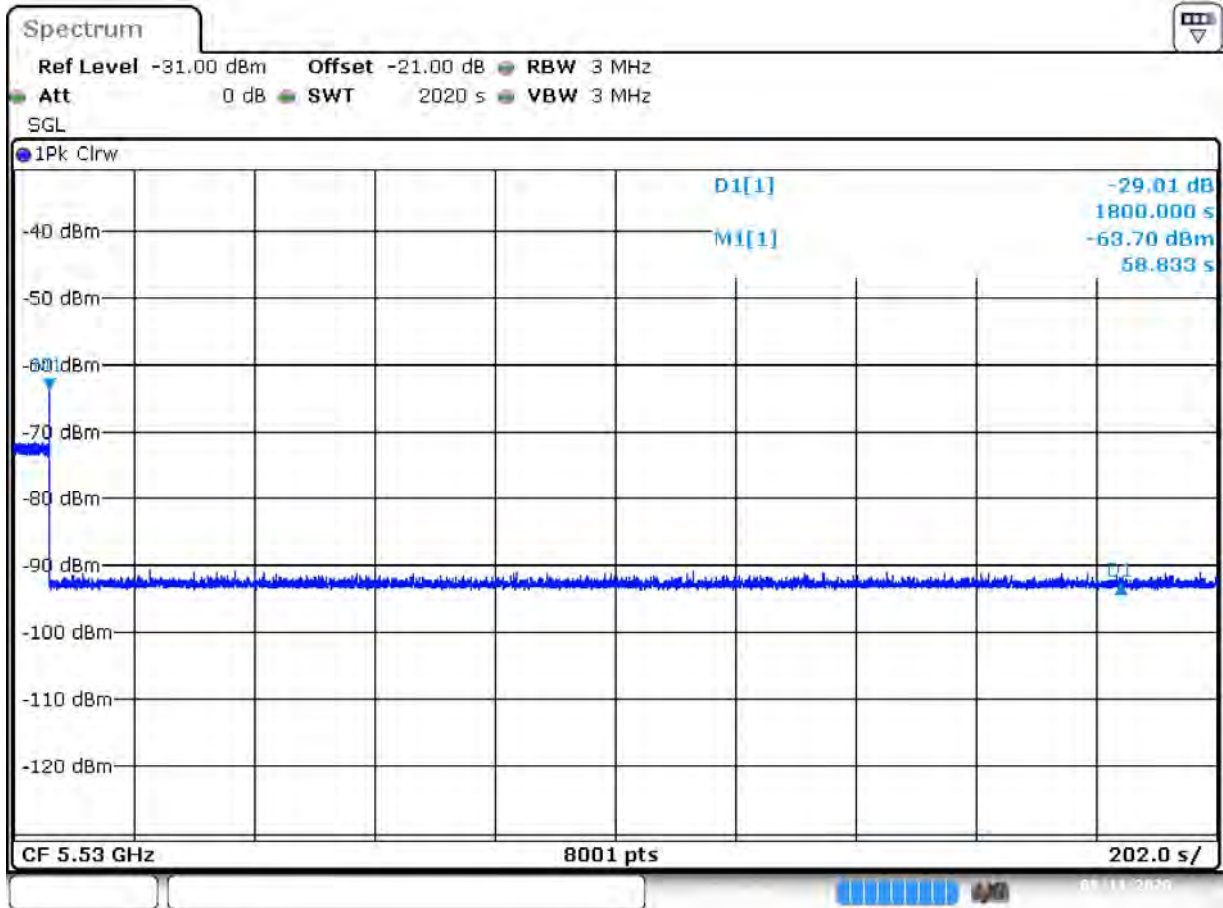
Test Item	Test Result (ms)	Limit
Channel Closing Transmission Time	6	200 milliseconds + approx. 60 milliseconds over remaining 10 seconds period
Channel Move Time	3214	10 seconds

Note:

- 1.The results showed that after radar signal injected the channel transmission closing time less than 200 milliseconds and an aggregate of no more than 60 milliseconds.
- 2.The results showed that after radar signal injected the channel move time was less than 10 seconds.

Product : LV55
 Test Item : Non-Occupancy Period
 Radar Type : Type 0
 Test Mode : Mode 3: Transmit (802.11ac-80BW)-CDD

Non-Occupancy Period at 5530 MHz



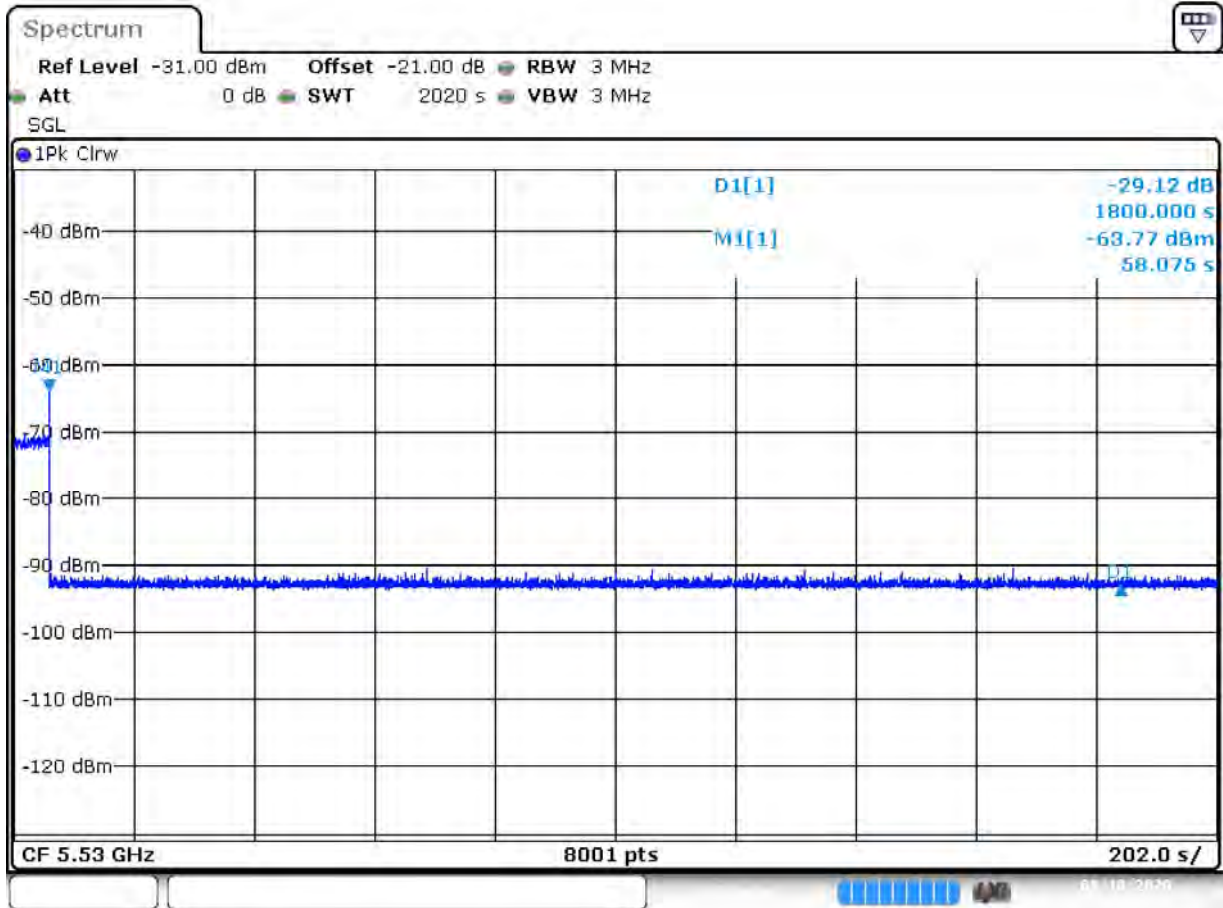
Date: 11.AUG.2020 00:06:06

Test Item	Test Result (Minutes)	Limit (Minutes)
Non-Occupancy Period	>30	>30

*No EUT transmissions were observed on the test channel during 30 minutes observation time.

Product : LV55
 Test Item : Non-Occupancy Period
 Radar Type : Type 0
 Test Mode : Mode 4: Transmit (802.11ax-80BW)-CDD

Non-Occupancy Period at 5530 MHz



Date: 10.AUG.2020 23:26:01

Test Item	Test Result (Minutes)	Limit (Minutes)
Non-Occupancy Period	>30	>30

*No EUT transmissions were observed on the test channel during 30 minutes observation time.

7. Statistical Performance Check

7.1. Test Procedure

The EUT was tested according to U-NII test procedure of KDB905462 D02 for compliance to FCC 47CFR 15.407 requirements.

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 + 1dB (-63dBm) 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 5500MHz, 5510MHz and 5530MHz.

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 at -62dbm. 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.

7.2. 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:

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

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

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

7.3. Test Result of Statistical Performance Check

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 1
 Test Date : 2020/08/10
 Test Mode : Mode 1: Transmit (802.11n-20BW)-CDD

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5500	1	638	83	1
2	5500	1	678	78	1
3	5500	1	678	78	1
4	5500	1	798	67	1
5	5500	1	618	86	0
6	5500	1	898	59	1
7	5500	1	538	98	1
8	5500	1	878	61	1
9	5500	1	658	81	1
10	5500	1	538	98	1
11	5500	1	738	72	1
12	5500	1	798	67	1
13	5500	1	778	68	1
14	5500	1	738	72	1
15	5500	1	838	63	1
16	5500	1	918	58	1
17	5500	1	918	58	1
18	5500	1	758	70	1
19	5500	1	758	70	1
20	5500	1	578	92	1
21	5500	1	698	76	1
22	5500	1	818	65	1
23	5500	1	598	89	1
24	5500	1	518	102	1
25	5500	1	698	76	1
26	5500	1	898	59	1
27	5500	1	838	63	1
28	5500	1	818	65	0
29	5500	1	618	86	1
30	5500	1	758	70	1
Detection Percentage(%)					93.3%

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 1
 Test Date : 2020/08/10
 Test Mode : Mode 2: Transmit (802.11n-40BW)-CDD

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5510	1	758	70	1
2	5510	1	758	70	1
3	5510	1	3066	18	1
4	5510	1	558	95	0
5	5510	1	858	62	1
6	5510	1	918	58	1
7	5510	1	598	89	1
8	5510	1	858	62	1
9	5510	1	618	86	1
10	5510	1	558	95	1
11	5510	1	578	92	1
12	5510	1	618	86	1
13	5510	1	618	86	1
14	5510	1	898	59	1
15	5510	1	678	78	1
16	5510	1	758	70	1
17	5510	1	578	92	1
18	5510	1	798	67	1
19	5510	1	598	89	1
20	5510	1	538	98	1
21	5510	1	638	83	1
22	5510	1	618	86	1
23	5510	1	658	81	1
24	5510	1	838	63	1
25	5510	1	858	62	1
26	5510	1	558	95	1
27	5510	1	678	78	1
28	5510	1	818	65	1
29	5510	1	798	67	1
30	5510	1	858	62	1
Detection Percentage(%)					96.6%

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 1
 Test Date : 2020/08/10
 Test Mode : Mode 3: Transmit (802.11ac-80BW)-CDD

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5530	1	938	57	1
2	5530	1	818	65	1
3	5530	1	838	63	1
4	5530	1	678	78	1
5	5530	1	618	86	1
6	5530	1	778	68	1
7	5530	1	538	98	1
8	5530	1	758	70	1
9	5530	1	858	62	1
10	5530	1	858	62	1
11	5530	1	798	67	0
12	5530	1	538	98	1
13	5530	1	798	67	1
14	5530	1	558	95	1
15	5530	1	758	70	1
16	5530	1	918	58	1
17	5530	1	3066	18	1
18	5530	1	918	58	1
19	5530	1	578	92	1
20	5530	1	778	68	1
21	5530	1	678	78	1
22	5530	1	698	76	1
23	5530	1	3066	18	1
24	5530	1	858	62	1
25	5530	1	778	68	1
26	5530	1	758	70	1
27	5530	1	518	102	1
28	5530	1	678	78	1
29	5530	1	778	68	0
30	5530	1	658	81	1
Detection Percentage(%)					93.3%

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 1
 Test Date : 2020/08/10
 Test Mode : Mode 4: Transmit (802.11ax-80BW)-CDD

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5530	1	538	98	1
2	5530	1	778	68	1
3	5530	1	538	98	1
4	5530	1	878	61	1
5	5530	1	598	89	1
6	5530	1	518	102	1
7	5530	1	938	57	1
8	5530	1	538	98	1
9	5530	1	758	70	1
10	5530	1	918	58	1
11	5530	1	678	78	1
12	5530	1	798	67	1
13	5530	1	758	70	1
14	5530	1	858	62	1
15	5530	1	578	92	1
16	5530	1	698	76	0
17	5530	1	878	61	1
18	5530	1	618	86	1
19	5530	1	758	70	1
20	5530	1	658	81	1
21	5530	1	918	58	1
22	5530	1	618	86	1
23	5530	1	538	98	1
24	5530	1	898	59	1
25	5530	1	938	57	1
26	5530	1	918	58	1
27	5530	1	718	74	0
28	5530	1	758	70	1
29	5530	1	758	70	1
30	5530	1	778	68	1
Detection Percentage(%)					93.3%

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 1
 Test Date : 2020/08/11
 Test Mode : Mode 5: Transmit (802.11ax-80BW)-Beamforming

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5530	1	938	57	1
2	5530	1	938	57	1
3	5530	1	618	86	1
4	5530	1	658	81	1
5	5530	1	778	68	1
6	5530	1	558	95	1
7	5530	1	638	83	1
8	5530	1	918	58	1
9	5530	1	898	59	1
10	5530	1	758	70	1
11	5530	1	858	62	0
12	5530	1	538	98	1
13	5530	1	678	78	1
14	5530	1	738	72	1
15	5530	1	538	98	1
16	5530	1	638	83	1
17	5530	1	898	59	1
18	5530	1	798	67	1
19	5530	1	678	78	1
20	5530	1	878	61	1
21	5530	1	918	58	1
22	5530	1	678	78	1
23	5530	1	618	86	1
24	5530	1	898	59	1
25	5530	1	598	89	1
26	5530	1	678	78	1
27	5530	1	3066	18	1
28	5530	1	818	65	1
29	5530	1	758	70	1
30	5530	1	558	95	1
Detection Percentage(%)					96.63%

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 2
 Test Date : 2020/08/10
 Test Mode : Mode 1: Transmit (802.11n-20BW)-CDD

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5500	2	197	23	1
2	5500	4.9	203	27	1
3	5500	2.6	154	26	1
4	5500	3.6	172	28	1
5	5500	1.8	180	28	0
6	5500	4.6	227	25	1
7	5500	1.4	163	28	1
8	5500	2.4	174	27	1
9	5500	2.5	196	24	1
10	5500	2.9	187	28	1
11	5500	4.9	207	26	1
12	5500	3.2	204	23	1
13	5500	1.4	226	25	1
14	5500	3.2	161	24	1
15	5500	3.7	179	28	1
16	5500	2.4	174	23	1
17	5500	1.7	213	24	1
18	5500	1.6	220	28	1
19	5500	1.6	176	24	1
20	5500	3.4	229	26	0
21	5500	2.6	163	24	1
22	5500	1.2	190	28	1
23	5500	5	158	26	1
24	5500	2.4	210	26	1
25	5500	4.8	207	24	1
26	5500	1.6	227	27	1
27	5500	1.2	170	23	0
28	5500	2.6	161	26	1
29	5500	4.8	207	28	1
30	5500	1.8	170	25	1
Detection Percentage(%)					90%

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 2
 Test Date : 2020/08/10
 Test Mode : Mode 2: Transmit (802.11n-40BW)-CDD

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5510	4.5	200	25	1
2	5510	1.6	188	29	1
3	5510	3.9	193	24	1
4	5510	1.5	153	26	0
5	5510	1.4	155	24	1
6	5510	1.4	216	25	1
7	5510	2.5	225	28	0
8	5510	3	201	27	1
9	5510	3.9	158	27	1
10	5510	1.5	150	24	1
11	5510	1.1	189	24	0
12	5510	3.3	224	29	1
13	5510	1.8	164	26	1
14	5510	3.4	164	25	1
15	5510	3.6	202	26	0
16	5510	4.9	202	26	1
17	5510	1.7	169	26	1
18	5510	1.7	177	26	0
19	5510	3.4	196	25	1
20	5510	3.9	172	24	1
21	5510	4.2	197	25	0
22	5510	2.6	151	26	1
23	5510	2.2	198	24	0
24	5510	4.2	201	29	1
25	5510	2.5	218	24	0
26	5510	3.3	185	25	1
27	5510	2.5	219	28	1
28	5510	2.2	179	28	1
29	5510	1.7	196	27	1
30	5510	3.5	216	28	1
Detection Percentage(%)					73.3%

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 2
 Test Date : 2020/08/10
 Test Mode : Mode 3: Transmit (802.11ac-80BW)-CDD

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5530	1.3	213	25	1
2	5530	2	227	27	1
3	5530	4.6	206	29	1
4	5530	4.3	159	29	1
5	5530	4.6	170	27	1
6	5530	1.6	162	28	1
7	5530	1.7	212	26	1
8	5530	4.8	210	29	1
9	5530	3	153	25	1
10	5530	4.9	162	24	1
11	5530	4.3	178	26	0
12	5530	1	202	25	1
13	5530	4.2	182	26	1
14	5530	1.3	174	26	1
15	5530	1.4	216	23	1
16	5530	5	175	28	1
17	5530	3.6	228	24	1
18	5530	1.2	212	26	1
19	5530	4.9	152	25	0
20	5530	2.1	176	26	1
21	5530	2.4	174	29	1
22	5530	3.3	230	28	1
23	5530	1.6	176	26	1
24	5530	1.5	223	25	1
25	5530	2.9	207	25	1
26	5530	3.8	150	28	1
27	5530	1.2	193	28	1
28	5530	1.7	167	28	1
29	5530	4.2	180	25	1
30	5530	1.8	156	26	0
Detection Percentage(%)					90%

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 2
 Test Date : 2020/08/11
 Test Mode : Mode 4: Transmit (802.11ax-80BW)-CDD

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5530	2.4	205	23	1
2	5530	1.8	193	24	1
3	5530	1.9	218	24	1
4	5530	4.7	228	23	1
5	5530	3.5	219	27	1
6	5530	5	164	27	1
7	5530	4.3	164	23	1
8	5530	2.7	152	28	1
9	5530	2.5	193	28	1
10	5530	2.2	225	24	1
11	5530	2.3	155	28	1
12	5530	3.7	202	28	0
13	5530	4.8	193	24	1
14	5530	3.8	155	28	1
15	5530	3.6	228	25	0
16	5530	3.6	176	25	1
17	5530	2.2	209	25	1
18	5530	3.7	229	24	1
19	5530	4.4	220	24	0
20	5530	1.9	201	27	1
21	5530	4.1	186	28	1
22	5530	1.1	198	26	1
23	5530	3.9	155	27	1
24	5530	4.1	168	27	1
25	5530	2.6	160	29	0
26	5530	3.9	155	27	1
27	5530	5	207	24	1
28	5530	2.8	227	27	1
29	5530	4.8	182	25	1
30	5530	3.1	155	23	1
Detection Percentage(%)					86.6%

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 2
 Test Date : 2020/08/11
 Test Mode : Mode 5: Transmit (802.11ax-80BW)-Beamforming

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5530	2.3	226	25	1
2	5530	2.7	221	24	1
3	5530	3.8	152	25	1
4	5530	1.2	159	23	1
5	5530	1.6	158	29	1
6	5530	1.2	161	29	1
7	5530	4.5	155	26	0
8	5530	2.5	156	26	1
9	5530	1.4	157	24	1
10	5530	3.8	179	26	1
11	5530	2.5	162	25	0
12	5530	4.2	225	25	1
13	5530	3.2	187	25	1
14	5530	3.2	229	26	1
15	5530	2.7	181	26	0
16	5530	5	164	25	1
17	5530	3.5	214	25	1
18	5530	4	196	26	0
19	5530	4.6	203	28	1
20	5530	3.1	208	25	1
21	5530	2.7	190	26	1
22	5530	1.6	173	25	1
23	5530	5	194	23	1
24	5530	3.9	169	26	1
25	5530	2.8	208	25	1
26	5530	2.1	160	27	0
27	5530	4.1	168	29	1
28	5530	3.1	160	23	1
29	5530	2.2	184	28	1
30	5530	3.5	155	25	1
Detection Percentage(%)					83.3%

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 3
 Test Date : 2020/08/10
 Test Mode : Mode 1: Transmit (802.11n-20BW)-CDD

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5500	7.4	365	18	1
2	5500	8.2	304	18	0
3	5500	9.6	455	16	1
4	5500	6.4	485	16	1
5	5500	9.6	266	17	0
6	5500	7.6	206	17	1
7	5500	8	444	16	0
8	5500	6.6	494	17	1
9	5500	6.1	403	17	1
10	5500	7.9	357	16	1
11	5500	9	334	18	1
12	5500	9.5	342	16	0
13	5500	8.7	357	18	1
14	5500	9.9	451	17	1
15	5500	7.2	458	17	0
16	5500	9.2	210	17	1
17	5500	9.6	231	17	1
18	5500	6.4	277	18	1
19	5500	8.2	404	16	1
20	5500	6.1	304	18	1
21	5500	9.6	384	16	1
22	5500	10	339	16	0
23	5500	6.1	389	18	1
24	5500	9.7	393	16	1
25	5500	6.8	475	17	1
26	5500	9	270	17	0
27	5500	9.8	307	17	1
28	5500	7.4	217	18	1
29	5500	9.8	487	17	0
30	5500	9	234	17	1
Detection Percentage(%)					73.3%

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 3
 Test Date : 2020/08/10
 Test Mode : Mode 2: Transmit (802.11n-40BW)-CDD

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5510	8.7	220	17	1
2	5510	6.8	247	18	0
3	5510	8.7	300	16	1
4	5510	9.3	460	17	1
5	5510	8.6	352	17	1
6	5510	7	283	16	1
7	5510	9.5	409	18	1
8	5510	8	347	18	1
9	5510	8.3	447	17	1
10	5510	8.6	393	18	1
11	5510	7.4	291	18	1
12	5510	6.6	227	18	1
13	5510	8.8	378	17	0
14	5510	6.3	412	17	1
15	5510	8.6	328	18	1
16	5510	7	435	16	0
17	5510	9.8	220	18	1
18	5510	7.8	441	17	0
19	5510	6.5	493	16	1
20	5510	7	416	17	1
21	5510	6.3	221	16	1
22	5510	8.2	352	17	1
23	5510	6.5	359	18	1
24	5510	6.4	389	18	1
25	5510	6.2	381	16	0
26	5510	7.3	441	18	1
27	5510	7	458	18	1
28	5510	9	260	18	1
29	5510	9.5	362	16	1
30	5510	6.8	293	17	1
Detection Percentage(%)					83.3%

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 3
 Test Date : 2020/08/10
 Test Mode : Mode 3: Transmit (802.11ac-80BW)-CDD

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5530	7.6	301	18	1
2	5530	8.3	359	16	1
3	5530	6.8	364	17	1
4	5530	6	282	16	1
5	5530	8.9	484	17	1
6	5530	8.1	435	17	1
7	5530	9.9	415	17	1
8	5530	9	305	18	1
9	5530	6.9	337	17	1
10	5530	8.4	380	16	1
11	5530	8.2	329	18	1
12	5530	6.8	498	17	0
13	5530	7.3	396	17	0
14	5530	8	306	16	1
15	5530	7	414	16	1
16	5530	6	458	17	1
17	5530	9.7	353	17	1
18	5530	10	375	17	1
19	5530	7.3	241	17	0
20	5530	7.8	334	16	1
21	5530	7.7	357	16	1
22	5530	8	353	17	1
23	5530	6.2	343	16	0
24	5530	7.8	327	17	1
25	5530	6.8	234	16	1
26	5530	9.4	487	16	1
27	5530	8.1	447	17	1
28	5530	8.5	402	17	0
29	5530	6	289	17	1
30	5530	6.7	346	17	0
Detection Percentage(%)					80%

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 3
 Test Date : 2020/08/10
 Test Mode : Mode 4: Transmit (802.11ax-80BW)-CDD

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5530	9.4	407	16	1
2	5530	8.5	349	18	1
3	5530	9.3	420	16	1
4	5530	9.6	245	18	0
5	5530	9.7	453	18	1
6	5530	8.1	257	16	1
7	5530	9.7	220	18	0
8	5530	6.1	441	18	1
9	5530	9.5	251	16	1
10	5530	6.7	221	18	1
11	5530	9	276	16	1
12	5530	8.5	397	17	1
13	5530	6.9	443	17	1
14	5530	9.5	441	17	1
15	5530	9.6	246	17	1
16	5530	8.7	339	18	1
17	5530	8.7	253	17	1
18	5530	8.8	480	17	1
19	5530	7.2	228	16	1
20	5530	9.8	276	17	0
21	5530	8	356	16	0
22	5530	7.4	386	17	0
23	5530	6	280	17	1
24	5530	9	281	16	1
25	5530	9	342	17	1
26	5530	6.8	218	17	1
27	5530	7.2	273	17	1
28	5530	9.4	449	16	1
29	5530	8	443	17	1
30	5530	6.3	348	16	0
Detection Percentage(%)					80%

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 3
 Test Date : 2020/08/10
 Test Mode : Mode 5: Transmit (802.11ax-80BW)-Beamforming

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5530	6.2	389	17	1
2	5530	6.2	306	18	0
3	5530	8.9	333	16	1
4	5530	7.7	324	18	1
5	5530	6.1	370	17	0
6	5530	9.7	447	17	1
7	5530	6.3	224	18	1
8	5530	9.5	393	17	1
9	5530	9.3	238	17	1
10	5530	6.4	499	17	1
11	5530	10	497	16	1
12	5530	8	493	17	0
13	5530	7.2	418	17	1
14	5530	7.2	472	17	1
15	5530	9.6	275	18	1
16	5530	7.9	435	17	1
17	5530	9.1	486	17	0
18	5530	6.6	346	16	1
19	5530	9.7	461	17	1
20	5530	8.1	266	16	1
21	5530	8.1	318	17	0
22	5530	8	472	17	1
23	5530	6.6	282	16	1
24	5530	7.8	300	17	0
25	5530	6.9	227	17	1
26	5530	6.3	276	18	1
27	5530	8.4	338	16	1
28	5530	6	403	17	1
29	5530	6	474	17	1
30	5530	9.4	292	18	1
Detection Percentage(%)					80%

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 4
 Test Date : 2020/08/10
 Test Mode : Mode 1: Transmit (802.11n-20BW)-CDD

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5500	16.1	437	14	1
2	5500	16.4	239	12	1
3	5500	11	380	16	0
4	5500	18.5	277	13	1
5	5500	14.6	479	15	1
6	5500	13.7	453	12	1
7	5500	16.1	274	12	0
8	5500	11.9	380	15	1
9	5500	15.2	482	13	1
10	5500	14.6	210	13	0
11	5500	15.4	405	12	1
12	5500	12.7	238	14	0
13	5500	14.9	461	13	1
14	5500	14.2	331	16	1
15	5500	16.8	228	13	1
16	5500	14.4	331	13	0
17	5500	17.8	255	13	1
18	5500	13.1	231	15	1
19	5500	14.1	221	16	0
20	5500	13	480	16	1
21	5500	19.5	477	15	1
22	5500	11.2	348	15	1
23	5500	11	294	15	1
24	5500	18.9	439	15	1
25	5500	14.4	299	16	0
26	5500	13.2	261	12	1
27	5500	15.9	275	13	1
28	5500	13.8	255	16	0
29	5500	17.9	242	14	1
30	5500	15.1	300	15	1
Detection Percentage(%)					73.3%

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 4
 Test Date : 2020/08/04
 Test Mode : Mode 2: Transmit (802.11n-40BW)-CDD

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5510	15.7	294	12	1
2	5510	13.1	399	12	1
3	5510	17.8	258	14	0
4	5510	15.2	274	15	1
5	5510	19.7	353	13	1
6	5510	17.2	330	16	1
7	5510	17.3	452	13	1
8	5510	17	280	13	0
9	5510	16.3	212	14	1
10	5510	15.5	377	12	1
11	5510	12.9	241	13	1
12	5510	14.5	208	15	1
13	5510	14.1	228	13	0
14	5510	16.3	401	13	1
15	5510	15	410	13	1
16	5510	18.6	339	15	0
17	5510	16.6	232	14	1
18	5510	15.1	442	14	0
19	5510	13.7	354	14	1
20	5510	13.5	474	16	0
21	5510	16.5	226	14	1
22	5510	15.6	365	13	1
23	5510	20	427	14	0
24	5510	14.7	333	14	1
25	5510	15.6	328	13	0
26	5510	16	307	12	1
27	5510	12.5	313	15	1
28	5510	13.1	215	14	0
29	5510	18	342	15	1
30	5510	16.2	223	15	1
Detection Percentage (%)					70%

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 4
 Test Date : 2020/08/11
 Test Mode : Mode 3: Transmit (802.11ac-80BW)-CDD

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5530	13.7	475	15	1
2	5530	11	438	16	0
3	5530	12.2	436	13	0
4	5530	19.3	451	15	0
5	5530	17.6	250	14	1
6	5530	13.1	228	13	1
7	5530	15.7	361	13	0
8	5530	15	354	15	1
9	5530	17.5	235	15	1
10	5530	16	228	15	1
11	5530	17.3	417	12	0
12	5530	19.7	489	14	0
13	5530	13.2	450	13	1
14	5530	13.6	447	14	1
15	5530	16.7	234	13	1
16	5530	17.5	497	14	1
17	5530	19.1	391	14	0
18	5530	15.5	489	14	1
19	5530	15.9	287	13	0
20	5530	15.4	338	13	1
21	5530	14.2	228	12	1
22	5530	12.1	239	14	1
23	5530	12	271	15	1
24	5530	17.8	297	14	0
25	5530	13.7	286	15	1
26	5530	17.1	259	14	1
27	5530	17.1	310	14	1
28	5530	15	246	13	1
29	5530	15.9	361	15	1
30	5530	19	429	13	0
Detection Percentage (%)					66.6%

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 4
 Test Date : 2020/08/11
 Test Mode : Mode 4: Transmit (802.11ax-80BW)-CDD

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5530	13.5	450	14	1
2	5530	15.6	425	13	0
3	5530	16.3	325	12	1
4	5530	19.3	462	13	0
5	5530	19.8	231	13	1
6	5530	11.8	371	14	0
7	5530	15.4	362	14	1
8	5530	11.2	427	13	1
9	5530	15.5	383	13	1
10	5530	13.1	276	13	1
11	5530	11.1	466	15	1
12	5530	12.5	398	14	0
13	5530	13.9	287	15	1
14	5530	14	464	13	1
15	5530	16.3	313	12	1
16	5530	18	372	13	0
17	5530	15.7	306	14	1
18	5530	20	377	13	0
19	5530	18.9	420	12	1
20	5530	19.5	408	15	1
21	5530	12.6	228	13	1
22	5530	12.6	392	16	1
23	5530	13	253	15	1
24	5530	12.9	225	12	1
25	5530	12.6	325	13	1
26	5530	12	321	15	1
27	5530	15.5	368	13	1
28	5530	19.6	326	16	1
29	5530	16	477	15	0
30	5530	11	300	14	0
Detection Percentage (%)					73.3%

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 4
 Test Date : 2020/08/11
 Test Mode : Mode 5: Transmit (802.11ax-80BW)-Beamforming

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5530	11.7	420	15	1
2	5530	18.1	286	16	1
3	5530	15.1	423	16	0
4	5530	15	405	13	1
5	5530	15.2	202	16	0
6	5530	19.5	313	16	1
7	5530	11.5	280	16	1
8	5530	15.8	430	14	0
9	5530	15.5	304	14	1
10	5530	13.5	255	16	1
11	5530	15.9	398	16	1
12	5530	15.4	459	12	0
13	5530	11.9	389	13	1
14	5530	12.2	320	14	1
15	5530	12.9	408	14	0
16	5530	20	205	13	1
17	5530	15.3	260	15	1
18	5530	17.4	294	14	0
19	5530	15.6	263	13	1
20	5530	19.4	453	13	1
21	5530	17.7	478	13	0
22	5530	14	425	13	1
23	5530	18.1	333	13	1
24	5530	19.3	273	13	1
25	5530	12.2	367	14	0
26	5530	15	409	15	1
27	5530	18.7	244	13	1
28	5530	16.2	343	15	1
29	5530	18.9	456	14	1
30	5530	19.1	385	15	1
Detection Percentage (%)					73.3%

Mode1 –802.11n20

Total Type 1~4 Radar Statistical Performance (5500MHz)			
Radar Type	Detection Percentage (%)	Limit (%)	Result
1	93.3	>60%	Pass
2	90	>60%	Pass
3	73.3	>60%	Pass
4	73.3	>60%	Pass
Total Type 1~4	82.475	>80%	Pass

Mode2 –802.11n40

Total Type 1~4 Radar Statistical Performance			
Radar Type	Detection Percentage (%)	Limit (%)	Result
1	96.6	>60%	Pass
2	73.3	>60%	Pass
3	83.3	>60%	Pass
4	70	>60%	Pass
Total Type 1~4	80.8	>80%	Pass

Mode3 –802.11ac80

Total Type 1~4 Radar Statistical Performance			
Radar Type	Detection Percentage (%)	Limit (%)	Result
1	93.3	>60%	Pass
2	90	>60%	Pass
3	80	>60%	Pass
4	66.6	>60%	Pass
Total Type 1~4	82.475	>80%	Pass

Mode4 –802.11ax80

Total Type 1~4 Radar Statistical Performance			
Radar Type	Detection Percentage (%)	Limit (%)	Result
1	93.3	>60%	Pass
2	86.6	>60%	Pass
3	80	>60%	Pass
4	73.3	>60%	Pass
Total Type 1~4	83.3	>80%	Pass

Mode5 –802.11ax80- Beamforming

Total Type 1~4 Radar Statistical Performance			
Radar Type	Detection Percentage (%)	Limit (%)	Result
1	96.6	>60%	Pass
2	83.3	>60%	Pass
3	80	>60%	Pass
4	73.3	>60%	Pass
Total Type 1~4	83.3	>80%	Pass

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 5
 Test Date : 2020/08/11
 Test Mode : Mode 1: Transmit (802.11n-20BW)-CDD

Center Freq: 5500MHz			Low Edge: 5491MHz	High Edge: 5508MHz	
Trial #	Chirp	Offset	VSG Frequency (MHz)	*Filename	1= Detection 0= No Detection
1	5	0	5500	Statistical Check RandParm For Radar Type 5 1 trail	1
2	8	0	5500	Statistical Check RandParm For Radar Type 5 2 trail	1
3	8	0	5500	Statistical Check RandParm For Radar Type 5 3 trail	1
4	16	0	5500	Statistical Check RandParm For Radar Type 5 4 trail	1
5	7	0	5500	Statistical Check RandParm For Radar Type 5 5 trail	1
6	5	0	5500	Statistical Check RandParm For Radar Type 5 6 trail	1
7	10	0	5500	Statistical Check RandParm For Radar Type 5 7 trail	1
8	8	0	5500	Statistical Check RandParm For Radar Type 5 8 trail	1
9	7	0	5500	Statistical Check RandParm For Radar Type 5 9 trail	1
10	19	0	5500	Statistical Check RandParm For Radar Type 5 10 trail	1
11	8	3.2	5493.2	Statistical Check RandParm For Radar Type 5 11 trail	1
12	16	6.4	5496.4	Statistical Check RandParm For Radar Type 5 12 trail	0
13	10	4	5494	Statistical Check RandParm For Radar Type 5 13 trail	0
14	7	2.8	5492.8	Statistical Check RandParm For Radar Type 5 14 trail	1
15	16	6.4	5496.4	Statistical Check RandParm For Radar Type 5 15 trail	0
16	5	2	5492	Statistical Check RandParm For Radar Type 5 16 trail	1
17	7	2.8	5492.8	Statistical Check RandParm For Radar Type 5 17 trail	1
18	17	6.8	5496.8	Statistical Check RandParm For Radar Type 5 18 trail	0
19	5	2	5492	Statistical Check RandParm For Radar Type 5 19 trail	1
20	13	5.2	5495.2	Statistical Check RandParm For Radar Type 5 20 trail	0
21	17	6.8	5501.2	Statistical Check RandParm For Radar Type 5 21 trail	1
22	19	7.6	5500.4	Statistical Check RandParm For Radar Type 5 22 trail	1
23	9	3.6	5504.4	Statistical Check RandParm For Radar Type 5 23 trail	1
24	20	8	5500	Statistical Check RandParm For Radar Type 5 24 trail	1
25	5	2	5506	Statistical Check RandParm For Radar Type 5 25 trail	1
26	15	6	5502	Statistical Check RandParm For Radar Type 5 26 trail	1
27	9	3.6	5504.4	Statistical Check RandParm For Radar Type 5 27 trail	1
28	16	6.4	5501.6	Statistical Check RandParm For Radar Type 5 28 trail	1
29	7	2.8	5505.2	Statistical Check RandParm For Radar Type 5 29 trail	1
30	14	5.6	5502.4	Statistical Check RandParm For Radar Type 5 30 trail	1
Detection Percentage (%)					83.3
Limit					≥ 80

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 5
 Test Date : 2019/08/11
 Test Mode : Mode 2: Transmit (802.11n-40BW)-CDD

Center Freq: 5510MHz			Low Edge: 5492MHz	High Edge: 5528MHz	
Trial #	Chirp	Offset	VSG Frequency (MHz)	*Filename	1= Detection 0= No Detection
1	10	0	5510	Statistical Check RandParm For Radar Type 5 1 trail	1
2	9	0	5510	Statistical Check RandParm For Radar Type 5 2 trail	1
3	13	0	5510	Statistical Check RandParm For Radar Type 5 3 trail	1
4	20	0	5510	Statistical Check RandParm For Radar Type 5 4 trail	1
5	5	0	5510	Statistical Check RandParm For Radar Type 5 5 trail	1
6	13	0	5510	Statistical Check RandParm For Radar Type 5 6 trail	1
7	17	0	5510	Statistical Check RandParm For Radar Type 5 7 trail	1
8	20	0	5510	Statistical Check RandParm For Radar Type 5 8 trail	1
9	15	0	5510	Statistical Check RandParm For Radar Type 5 9 trail	1
10	15	0	5510	Statistical Check RandParm For Radar Type 5 10 trail	1
11	8	3.2	5493.2	Statistical Check RandParm For Radar Type 5 11 trail	1
12	19	7.6	5497.6	Statistical Check RandParm For Radar Type 5 12 trail	1
13	8	3.2	5493.2	Statistical Check RandParm For Radar Type 5 13 trail	1
14	20	8	5498	Statistical Check RandParm For Radar Type 5 14 trail	1
15	7	2.8	5492.8	Statistical Check RandParm For Radar Type 5 15 trail	1
16	11	4.4	5494.4	Statistical Check RandParm For Radar Type 5 16 trail	1
17	19	7.6	5497.6	Statistical Check RandParm For Radar Type 5 17 trail	1
18	15	6	5496	Statistical Check RandParm For Radar Type 5 18 trail	1
19	16	6.4	5496.4	Statistical Check RandParm For Radar Type 5 19 trail	1
20	17	6.8	5496.8	Statistical Check RandParm For Radar Type 5 20 trail	1
21	7	2.8	5524.2	Statistical Check RandParm For Radar Type 5 21 trail	1
22	5	2	5525	Statistical Check RandParm For Radar Type 5 22 trail	0
23	20	8	5519	Statistical Check RandParm For Radar Type 5 23 trail	1
24	20	8	5519	Statistical Check RandParm For Radar Type 5 24 trail	1
25	6	2.4	5524.6	Statistical Check RandParm For Radar Type 5 25 trail	1
26	16	6.4	5520.6	Statistical Check RandParm For Radar Type 5 26 trail	1
27	9	3.6	5523.4	Statistical Check RandParm For Radar Type 5 27 trail	1
28	17	6.8	5520.2	Statistical Check RandParm For Radar Type 5 28 trail	0
29	20	8	5519	Statistical Check RandParm For Radar Type 5 29 trail	1
30	6	2.4	5524.6	Statistical Check RandParm For Radar Type 5 30 trail	1
Detection Percentage (%)					93.3
Limit					≥ 80

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 5
 Test Date : 2020/08/11
 Test Mode : Mode 3: Transmit (802.11ac-80BW)-CDD

Center Freq: 5530MHz			Low Edge: 5492MHz	High Edge: 5568MHz	
Trial #	Chirp	Offset	VSG Frequency (MHz)	*Filename	1= Detection 0= No Detection
1	15	0	5530	Statistical Check RandParm For Radar Type 5 1 trail	1
2	5	0	5530	Statistical Check RandParm For Radar Type 5 2 trail	1
3	20	0	5530	Statistical Check RandParm For Radar Type 5 3 trail	1
4	16	0	5530	Statistical Check RandParm For Radar Type 5 4 trail	1
5	11	0	5530	Statistical Check RandParm For Radar Type 5 5 trail	1
6	13	0	5530	Statistical Check RandParm For Radar Type 5 6 trail	1
7	12	0	5530	Statistical Check RandParm For Radar Type 5 7 trail	1
8	9	0	5530	Statistical Check RandParm For Radar Type 5 8 trail	1
9	15	0	5530	Statistical Check RandParm For Radar Type 5 9 trail	1
10	6	0	5530	Statistical Check RandParm For Radar Type 5 10 trail	1
11	7	2.8	5494.8	Statistical Check RandParm For Radar Type 5 11 trail	1
12	15	6	5498	Statistical Check RandParm For Radar Type 5 12 trail	1
13	11	4.4	5496.4	Statistical Check RandParm For Radar Type 5 13 trail	1
14	10	4	5496	Statistical Check RandParm For Radar Type 5 14 trail	1
15	11	4.4	5496.4	Statistical Check RandParm For Radar Type 5 15 trail	1
16	10	4	5496	Statistical Check RandParm For Radar Type 5 16 trail	1
17	8	3.2	5495.2	Statistical Check RandParm For Radar Type 5 17 trail	1
18	12	4.8	5496.8	Statistical Check RandParm For Radar Type 5 18 trail	0
19	5	2	5494	Statistical Check RandParm For Radar Type 5 19 trail	1
20	16	6.4	5498.4	Statistical Check RandParm For Radar Type 5 20 trail	1
21	10	4	5565	Statistical Check RandParm For Radar Type 5 21 trail	1
22	12	4.8	5564.2	Statistical Check RandParm For Radar Type 5 22 trail	1
23	17	6.8	5562.2	Statistical Check RandParm For Radar Type 5 23 trail	0
24	5	2	5567	Statistical Check RandParm For Radar Type 5 24 trail	0
25	13	5.2	5563.8	Statistical Check RandParm For Radar Type 5 25 trail	1
26	10	4	5565	Statistical Check RandParm For Radar Type 5 26 trail	1
27	13	5.2	5563.8	Statistical Check RandParm For Radar Type 5 27 trail	1
28	7	2.8	5566.2	Statistical Check RandParm For Radar Type 5 28 trail	0
29	17	6.8	5562.2	Statistical Check RandParm For Radar Type 5 29 trail	1
30	11	4.4	5564.6	Statistical Check RandParm For Radar Type 5 30 trail	1
Detection Percentage (%)					86.6
Limit					≥ 80

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 5
 Test Date : 2020/08/11
 Test Mode : Mode 4: Transmit (802.11ax-80BW)-CDD

Center Freq: 5530MHz			Low Edge: 5491MHz	High Edge: 5568MHz	
Trial #	Chirp	Offset	VSG Frequency (MHz)	*Filename	1= Detection 0= No Detection
1	9	0	5530	Statistical Check RandParm For Radar Type 5 1 trail	1
2	17	0	5530	Statistical Check RandParm For Radar Type 5 2 trail	1
3	19	0	5530	Statistical Check RandParm For Radar Type 5 3 trail	1
4	18	0	5530	Statistical Check RandParm For Radar Type 5 4 trail	1
5	15	0	5530	Statistical Check RandParm For Radar Type 5 5 trail	1
6	19	0	5530	Statistical Check RandParm For Radar Type 5 6 trail	1
7	8	0	5530	Statistical Check RandParm For Radar Type 5 7 trail	1
8	19	0	5530	Statistical Check RandParm For Radar Type 5 8 trail	1
9	5	0	5530	Statistical Check RandParm For Radar Type 5 9 trail	1
10	7	0	5530	Statistical Check RandParm For Radar Type 5 10 trail	1
11	11	4.4	5495.4	Statistical Check RandParm For Radar Type 5 11 trail	1
12	13	5.2	5496.2	Statistical Check RandParm For Radar Type 5 12 trail	1
13	20	8	5499	Statistical Check RandParm For Radar Type 5 13 trail	1
14	11	4.4	5495.4	Statistical Check RandParm For Radar Type 5 14 trail	1
15	11	4.4	5495.4	Statistical Check RandParm For Radar Type 5 15 trail	1
16	13	5.2	5496.2	Statistical Check RandParm For Radar Type 5 16 trail	1
17	12	4.8	5495.8	Statistical Check RandParm For Radar Type 5 17 trail	1
18	12	4.8	5495.8	Statistical Check RandParm For Radar Type 5 18 trail	1
19	13	5.2	5496.2	Statistical Check RandParm For Radar Type 5 19 trail	1
20	5	2	5493	Statistical Check RandParm For Radar Type 5 20 trail	1
21	11	4.4	5564.6	Statistical Check RandParm For Radar Type 5 21 trail	1
22	12	4.8	5564.2	Statistical Check RandParm For Radar Type 5 22 trail	1
23	11	4.4	5564.6	Statistical Check RandParm For Radar Type 5 23 trail	1
24	16	6.4	5562.6	Statistical Check RandParm For Radar Type 5 24 trail	1
25	6	2.4	5566.6	Statistical Check RandParm For Radar Type 5 25 trail	0
26	8	3.2	5565.8	Statistical Check RandParm For Radar Type 5 26 trail	1
27	5	2	5567	Statistical Check RandParm For Radar Type 5 27 trail	0
28	16	6.4	5562.6	Statistical Check RandParm For Radar Type 5 28 trail	1
29	7	2.8	5566.2	Statistical Check RandParm For Radar Type 5 29 trail	1
30	9	3.6	5565.4	Statistical Check RandParm For Radar Type 5 30 trail	0
Detection Percentage (%)					90
Limit					≥ 80

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 5
 Test Date : 2020/08/11
 Test Mode : Mode 5: Transmit (802.11ax-80BW)-Beamforming

Center Freq: 5530MHz			Low Edge: 5491MHz	High Edge: 5569MHz	
Trial #	Chirp	Offset	VSG Frequency (MHz)	*Filename	1= Detection 0= No Detection
1	15	0	5530	Statistical Check RandParm For Radar Type 5 1 trail	1
2	15	0	5530	Statistical Check RandParm For Radar Type 5 2 trail	1
3	12	0	5530	Statistical Check RandParm For Radar Type 5 3 trail	1
4	18	0	5530	Statistical Check RandParm For Radar Type 5 4 trail	1
5	19	0	5530	Statistical Check RandParm For Radar Type 5 5 trail	1
6	18	0	5530	Statistical Check RandParm For Radar Type 5 6 trail	1
7	17	0	5530	Statistical Check RandParm For Radar Type 5 7 trail	1
8	7	0	5530	Statistical Check RandParm For Radar Type 5 8 trail	1
9	19	0	5530	Statistical Check RandParm For Radar Type 5 9 trail	1
10	6	0	5530	Statistical Check RandParm For Radar Type 5 10 trail	1
11	15	6	5497	Statistical Check RandParm For Radar Type 5 11 trail	1
12	10	4	5495	Statistical Check RandParm For Radar Type 5 12 trail	1
13	15	6	5497	Statistical Check RandParm For Radar Type 5 13 trail	0
14	19	7.6	5498.6	Statistical Check RandParm For Radar Type 5 14 trail	1
15	7	2.8	5493.8	Statistical Check RandParm For Radar Type 5 15 trail	0
16	14	5.6	5496.6	Statistical Check RandParm For Radar Type 5 16 trail	0
17	9	3.6	5494.6	Statistical Check RandParm For Radar Type 5 17 trail	1
18	5	2	5493	Statistical Check RandParm For Radar Type 5 18 trail	0
19	7	2.8	5493.8	Statistical Check RandParm For Radar Type 5 19 trail	0
20	13	5.2	5496.2	Statistical Check RandParm For Radar Type 5 20 trail	1
21	15	6	5563	Statistical Check RandParm For Radar Type 5 21 trail	1
22	17	6.8	5562.2	Statistical Check RandParm For Radar Type 5 22 trail	1
23	8	3.2	5565.8	Statistical Check RandParm For Radar Type 5 23 trail	1
24	9	3.6	5565.4	Statistical Check RandParm For Radar Type 5 24 trail	1
25	16	6.4	5562.6	Statistical Check RandParm For Radar Type 5 25 trail	1
26	15	6	5563	Statistical Check RandParm For Radar Type 5 26 trail	1
27	17	6.8	5562.2	Statistical Check RandParm For Radar Type 5 27 trail	1
28	15	6	5563	Statistical Check RandParm For Radar Type 5 28 trail	1
29	20	8	5561	Statistical Check RandParm For Radar Type 5 29 trail	1
30	5	2	5567	Statistical Check RandParm For Radar Type 5 30 trail	1
Detection Percentage (%)					83.3
Limit					≥ 80

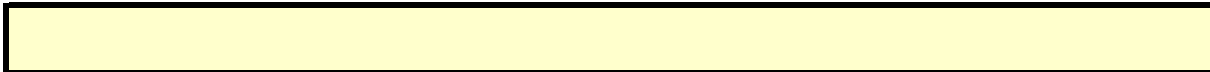
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

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	1	51.8	15			518.112
2	2	71.3	15	1484		136.17
3	2	52.9	15	1533		692.83
4	2	61	15	1412		844.87
5	2	86.8	15	1596		307.5
6	1	67.3	15			950.1
7	2	95.6	15	1135		87.82
8	2	91.1	15	1926		742.74
9	1	60.9	15			974.06
10	2	61.2	15	1095		903.31
11	3	70.6	15	1662	1722	861.1
12	2	93.8	15	1262		787.8



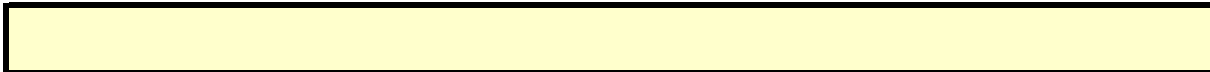
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 2

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	61.6	5	1718	1590	468.706
2	2	85.4	5	1243		48.667
3	2	76	5	1040		771.966
4	2	63.2	5	1948		729.689
5	2	64.8	5	1945		507.652
6	3	57.9	5	1122	1756	600.235
7	1	53.9	5			820.848
8	2	69.5	5	1864		832.552
9	2	79	5	1004		604.145
10	3	85.6	5	1179	1124	40.478
11	1	86.7	5			262.501
12	2	77.2	5	1546		170.454
13	3	93.4	5	1685	1070	793.877



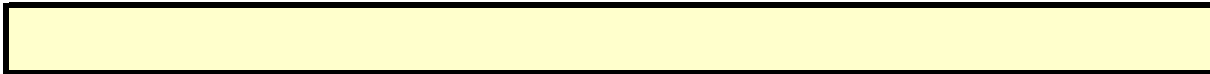
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 3

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	94.3	20	1644		398.416
2	1	95.8	20			578.957
3	2	88.9	20	1360		69.823
4	2	66.1	20	1660		998.12
5	3	62	20	1059	1053	1095.317
6	3	70	20	1505	1646	891.873
7	3	96	20	1418	1089	1169.21
8	2	69.2	20	1729		219.357
9	3	93.7	20	1238	1320	359.233



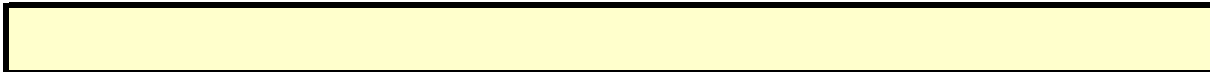
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 4

Bursts in Trial: 18

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	70.7	16	1699	1400	329.829
2	2	81.3	16	1713		214.717
3	1	57.8	16			635.527
4	1	67.1	16			399.69
5	2	84.7	16	1065		49.523
6	2	91.9	16	1750		388.577
7	1	50.7	16			285.01
8	1	56.4	16			307.303
9	3	93	16	1521	1977	86.427
10	1	80.3	16			468.82
11	1	70.9	16			288.883
12	2	71	16	1297		636.147
13	2	92.6	16	1379		219.73
14	2	94	16	1475		31.573
15	2	82.4	16	1498		404.797
16	3	72.5	16	1600	1702	425.4
17	2	79.3	16	1446		592.433
18	1	79.1	16			627.967



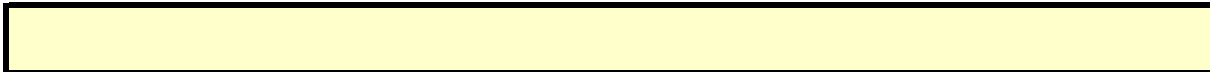
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 6

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	57.3	13	1701		924.156
2	1	94.2	13			865.577
3	2	78.1	13	1967		411.753
4	1	63.8	13			1219.57
5	2	71.7	13	1534		996.077
6	2	56.6	13	1996		872.553
7	1	98	13			257.56
8	3	70.8	13	1326	1372	1006.467
9	2	58.5	13	1053		1183.933



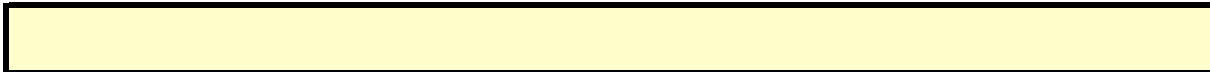
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 7

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	2	66.6	12	1981		96.569
2	3	94.9	12	1294	1354	714.25
3	1	88.6	12			352.19
4	1	75.5	12			317.04
5	1	53.7	12			477.02
6	3	62	12	1627	1098	459.31
7	3	81.1	12	1593	1637	265.24
8	2	79.7	12	1994		227.43
9	2	86.2	12	1414		268.17
10	1	53.9	12			45.42
11	2	66.8	12	1253		79.59
12	3	93.3	12	1820	1794	773.18
13	2	83.5	12	1414		607.3
14	1	85	12			322.4
15	2	88	12	1425		114.5



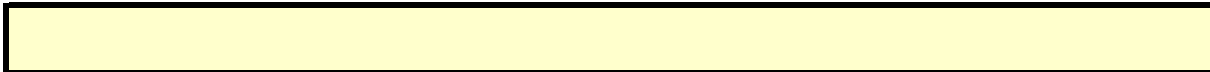
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 9

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	51.4	15	1081		432.272
2	2	70.3	15	1342		137.739
3	2	93.5	15	1094		725.33
4	2	75.8	15	1622		121.9
5	1	85.8	15			474.91
6	1	74.1	15			301.68
7	3	58.3	15	1404	1084	116.01
8	2	63.7	15	1763		238.21
9	1	93.3	15			543.97
10	3	72.3	15	1681	1811	83.41
11	2	65.5	15	1495		55.83
12	2	96.6	15	1334		425.6
13	2	78.3	15	1022		640.99
14	2	74.9	15	1050		605
15	3	93.5	15	1108	1054	409.8
16	3	77.7	15	1501	1957	206.5



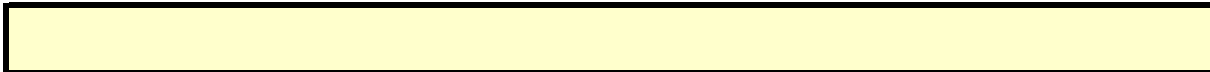
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 10

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	66.2	6	1032		1040.65
2	1	63.1	6			685.991
3	2	51.5	6	1999		689.872
4	2	83.2	6	1235		449.253
5	3	98	6	1043	1521	578.404
6	2	57.1	6	1472		938.125
7	1	92.6	6			106.835
8	1	76.7	6			991.536
9	2	59.5	6	1823		190.757
10	2	79.6	6	1851		1058.118
11	3	62.7	6	1125	1501	673.109



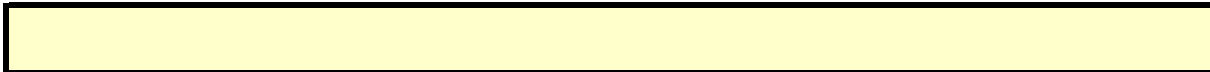
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 11

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	2	76.8	7	1795		446.716
2	2	62.9	7	1799		693.138
3	3	53.1	7	1384	1885	597.385
4	2	84.1	7	1109		569.633
5	2	85	7	1656		612.151
6	2	82	7	1784		631.728
7	2	73.5	7	1408		465.196
8	2	98	7	1205		669.724
9	3	55.8	7	1368	1348	281.111
10	2	99.2	7	1387		205.429
11	3	56.9	7	1243	1923	607.426
12	3	62.2	7	1653	1281	288.884
13	1	94.3	7			556.232
14	2	84.7	7	1235		38.899
15	1	72.1	7			223.247
16	1	58.2	7			571.165
17	2	73	7	1335		80.882



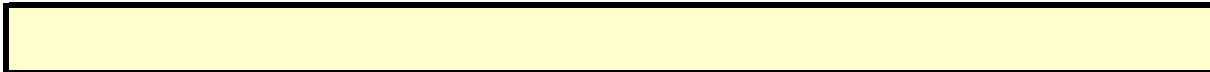
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 13

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	2	78.5	11	1856		29.192
2	2	76.4	11	1527		399.3
3	3	52.3	11	1201	1634	496.59
4	3	89.1	11	1715	1822	660.32
5	2	74	11	1800		18.59
6	2	70.4	11	1108		474.78
7	3	96.9	11	1305	1166	572.74
8	1	98.6	11			466.06
9	3	55.9	11	1477	1844	437.3
10	2	79.2	11	1613		1043.3



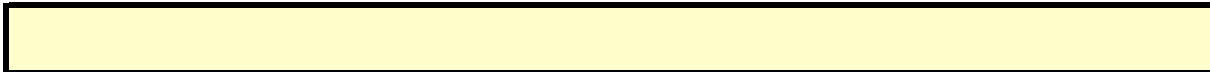
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 15

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	2	55.1	11	1706		134.536
2	2	80.3	11	1702		838.113
3	3	98.1	11	1378	1696	676.706
4	2	54.6	11	1579		886.509
5	1	95.4	11			215.212
6	3	59.7	11	1642	1266	716.985
7	3	63.5	11	1113	1934	59.068
8	1	93.3	11			897.922
9	2	62.5	11	1263		609.195
10	1	97.7	11			427.358
11	2	80.8	11	1233		790.331
12	3	55.8	11	1824	1963	617.354
13	2	52.8	11	1273		416.377



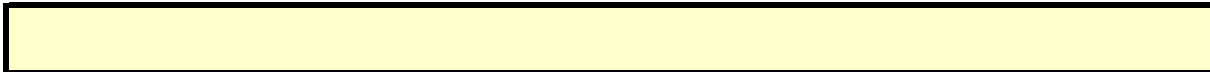
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 16

Bursts in Trial: 18

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	75.3	10	1621		209.578
2	2	64	10	1865		536.803
3	2	56.2	10	1544		494.257
4	3	85.4	10	1602	1216	541.53
5	1	84.6	10			152.413
6	2	91.7	10	1955		398.547
7	3	67.7	10	1723	1841	332.39
8	2	68.3	10	1778		132.613
9	2	81.9	10	1213		295.657
10	3	55.3	10	1961	1395	175.72
11	2	96.4	10	1553		153.113
12	2	96.7	10	1640		526.057
13	3	84.1	10	1502	1829	171.41
14	2	57.2	10	1562		604.503
15	3	54	10	1386	1416	21.957
16	2	80.4	10	1484		503.3
17	3	68.4	10	1229	1774	420.733
18	3	52.1	10	1002	1672	441.567



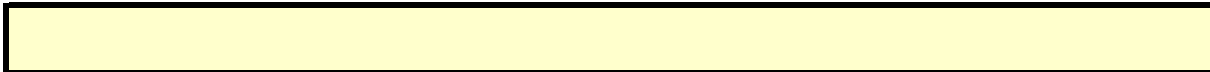
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 17

Bursts in Trial: 18

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	99.7	8	1286		610.543
2	2	69.7	8	1197		306.375
3	2	72.1	8	1541		515.897
4	1	87.2	8			612.46
5	3	87.4	8	1748	1889	275.623
6	2	79.2	8	1004		653.297
7	3	80.4	8	1488	1254	450.62
8	1	96	8			161.043
9	2	90.4	8	1873		311.397
10	3	65.7	8	1166	1816	331.19
11	1	91	8			416.623
12	1	81.5	8			358.377
13	2	87.1	8	1479		351.45
14	1	88.4	8			93.333
15	1	84.9	8			8.217
16	3	88.9	8	1031	1766	431.1
17	3	94.1	8	1785	1262	113.533
18	1	91.2	8			182.167



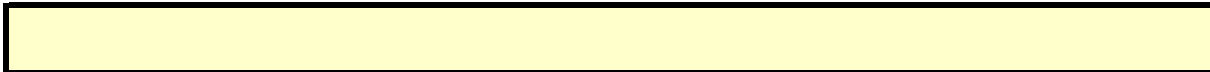
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 19

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	2	88	5	1240		141.022
2	1	86.4	5			117.527
3	1	79	5			550.725
4	1	64.7	5			312.943
5	1	71.1	5			149.971
6	2	86.6	5	1516		454.938
7	2	99.3	5	1993		545.526
8	2	62.3	5	1192		517.274
9	2	69.3	5	1881		245.831
10	1	82.9	5			77.509
11	2	69.9	5	1659		413.796
12	2	83	5	1397		294.824
13	3	72.4	5	1024	1092	344.352
14	3	78.6	5	1102	1100	597.829
15	2	62.2	5	1268		466.847
16	3	56.4	5	1226	1169	672.865
17	3	52.7	5	1573	1117	616.482



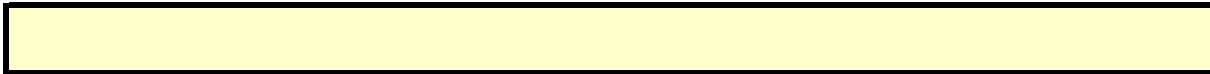
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

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	72.2	16	1543		285.671
2	3	93	16	1422	1350	72.23
3	2	61.7	16	1927		119.15
4	2	72.5	16	1613		885.91
5	3	55	16	1069	1987	401.69
6	3	84.6	16	1638	1125	441.83
7	1	51.6	16			768.48
8	2	63.1	16	1689		281.71
9	2	90.5	16	1539		259.32
10	3	85.1	16	1550	1327	564.38
11	3	59.5	16	1876	1116	116.3
12	2	77.9	16	1179		269



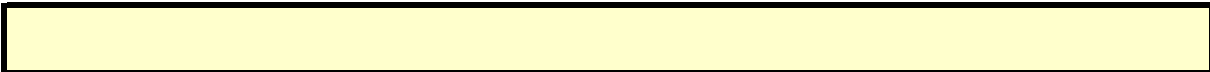
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 22

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	1	74.9	12			232.093
2	3	57.2	12	1220	1053	344.379
3	1	70	12			122.362
4	2	50.1	12	1120		564.033
5	2	92.9	12	1358		425.754
6	2	69.6	12	1353		98.555
7	2	93.6	12	1237		278.606
8	1	86.7	12			332.657
9	2	87.4	12	1218		271.288
10	3	58.1	12	1793	1552	146.949
11	2	96.6	12	1597		126.391
12	3	63.8	12	1919	1375	191.942
13	3	56.9	12	1533	1010	137.033
14	2	52.4	12	1107		94.434
15	1	86.4	12			481.025
16	2	78.1	12	1422		283.986
17	1	88.8	12			558.737
18	3	55.6	12	1663	1864	3.658
19	3	77.2	12	1013	1132	103.979



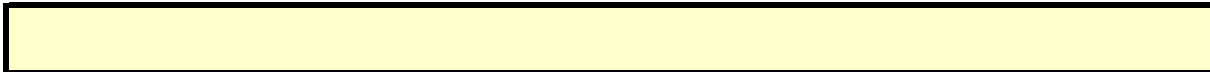
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 24

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	1	98.2	5			446.022
2	3	86.7	5	1311	1256	316.378
3	2	86.9	5	1668		467.075
4	3	95.5	5	1962	1771	383.023
5	1	61.3	5			272.141
6	2	56.7	5	1505		115.358
7	2	65.8	5	1606		271.136
8	2	88.5	5	1994		232.124
9	3	98.2	5	1376	1084	245.371
10	1	87.5	5			687.459
11	2	55.1	5	1342		584.816
12	3	85	5	1022	1204	310.534
13	2	94.9	5	1725		237.262
14	1	71.1	5			93.699
15	2	56.9	5	1351		686.947
16	3	80.2	5	1399	1751	325.365
17	3	65.7	5	1247	1083	113.882



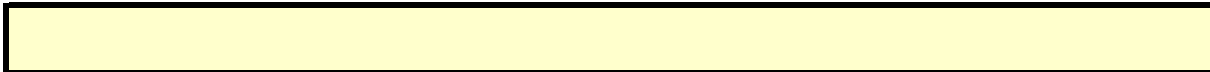
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 25

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	90.7	13	1555	1957	714.204
2	1	52.3	13			484.14
3	1	69	13			785.09
4	3	87.8	13	1830	1364	200.15
5	2	80	13	1645		74.29
6	3	93.8	13	1117	1605	365.53
7	3	56	13	1826	1580	291.62
8	2	54.7	13	1460		834.82
9	1	92.9	13			787.29
10	2	57.9	13	1783		845.72
11	3	79.2	13	1801	1112	924.7
12	2	100	13	1143		25.5



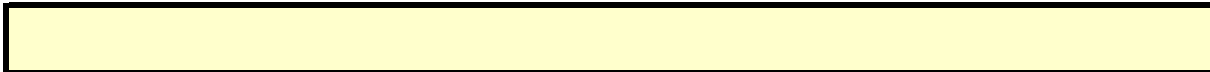
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 26

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	3	55.2	10	1685	1121	1016.27
2	1	95.8	10			658.211
3	3	99.9	10	1413	1006	977.462
4	1	91.2	10			134.733
5	2	54.1	10	1746		213.124
6	1	96.7	10			58.895
7	2	67.8	10	1321		252.565
8	1	68.4	10			991.956
9	2	57.5	10	1698		930.997
10	1	76.6	10			1044.418
11	3	64.9	10	1610	1552	937.409



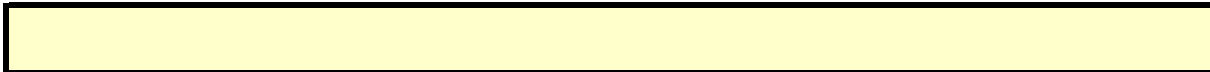
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

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	58.5	13			636.713
2	1	81.8	13			190.37
3	3	97.4	13	1516	1645	828.73
4	2	92.6	13	1837		925.74
5	2	56.9	13	1787		620.61
6	1	63.1	13			91.9
7	1	62.9	13			249.67
8	3	79.7	13	1164	1321	736.18
9	2	58.3	13	1730		214.06
10	2	88	13	1656		751.8
11	2	90.6	13	1496		464.7
12	1	82.1	13			248.5



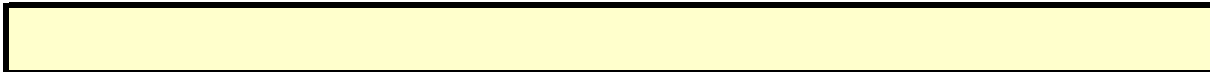
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 28

Bursts in Trial: 18

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	52.6	7			11.99
2	2	50.1	7	1863		611.653
3	2	91.1	7	1243		197.397
4	1	79.8	7			658.24
5	2	60.4	7	1252		519.873
6	3	98.2	7	1060	1184	608.547
7	3	70	7	1216	1986	273.82
8	1	67.6	7			525.153
9	1	81.2	7			35.527
10	2	90.8	7	1331		36.83
11	3	90	7	1558	1198	40.713
12	3	69.3	7	1589	1983	568.347
13	2	73.9	7	1872		401.26
14	2	84.3	7	1205		442.083
15	2	69.1	7	1016		277.907
16	1	88.7	7			451.7
17	3	55.5	7	1987	1531	390.733
18	1	61.7	7			620.567



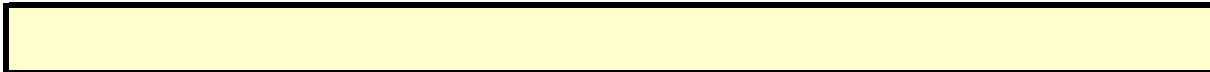
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 29

Bursts in Trial: 18

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	53.2	17	1942		237.803
2	1	81.8	17			563.033
3	3	95.5	17	1717	1332	57.237
4	2	66.8	17	1038		126.18
5	2	97.1	17	1553		386.003
6	2	66.8	17	1636		95.767
7	1	50.1	17			473.68
8	3	73.9	17	1036	1559	389.053
9	2	97.8	17	1325		547.897
10	2	96.7	17	1994		474.06
11	2	90.1	17	1309		91.553
12	2	70.7	17	1337		274.777
13	1	63.9	17			196.83
14	1	55.5	17			5.763
15	1	77.2	17			660.277
16	2	54.5	17	1608		518
17	3	88.1	17	1160	1510	418.133
18	3	61.7	17	1088	1459	425.467



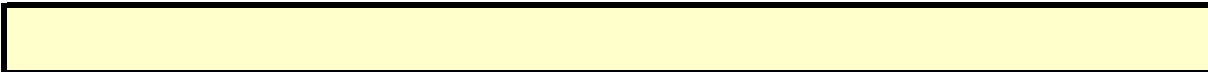
TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 30

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	1	98.3	11			337.679
2	2	72.2	11	1885		280.41
3	3	87	11	1874	1340	82.832
4	1	54.4	11			407.543
5	2	80.2	11	1655		303.534
6	2	95.7	11	1149		524.525
7	1	88.2	11			584.026
8	2	72.6	11	1524		178.127
9	2	55.1	11	1106		385.178
10	2	95.2	11	1426		479.419
11	3	93	11	1332	1984	76.001
12	2	95.4	11	1436		486.022
13	1	58.4	11			34.833
14	2	97.4	11	1541		37.404
15	2	95.6	11	1092		371.265
16	3	58.6	11	1716	1278	77.546
17	1	71.3	11			329.337
18	1	79.2	11			174.658
19	3	88.7	11	1938	1737	467.279



Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 6
 Test Date : 2020/08/01
 Test Mode : Mode 1: Transmit (802.11n-20BW)-CDD

Trial #	Frequency (MHz)	*Filename	1= Detection 0= No Detection
1	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_1_trail	1
2	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_2_trail	1
3	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_3_trail	1
4	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_4_trail	1
5	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_5_trail	1
6	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_6_trail	0
7	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_7_trail	1
8	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_8_trail	1
9	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_9_trail	1
10	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_10_trail	1
11	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_11_trail	1
12	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_12_trail	1
13	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_13_trail	1
14	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_14_trail	1
15	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_15_trail	1
16	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_16_trail	1
17	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_17_trail	1
18	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_18_trail	0
19	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_19_trail	1
20	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_20_trail	1
21	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_21_trail	1
22	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_22_trail	1
23	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_23_trail	1
24	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_24_trail	0
25	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_25_trail	1
26	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_26_trail	1
27	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_27_trail	1
28	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_28_trail	1
29	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_29_trail	1
30	5500	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_30_trail	1
Detection Percentage (%)			90
Limit			>70

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 6
 Test Date : 2020/08/04
 Test Mode : Mode 2: Transmit (802.11n-40BW)-CDD

Trial #	Frequency (MHz)	*Filename	1= Detection 0= No Detection
1	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_1_trail	1
2	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_2_trail	1
3	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_3_trail	1
4	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_4_trail	1
5	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_5_trail	1
6	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_6_trail	1
7	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_7_trail	1
8	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_8_trail	1
9	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_9_trail	1
10	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_10_trail	0
11	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_11_trail	1
12	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_12_trail	1
13	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_13_trail	1
14	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_14_trail	1
15	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_15_trail	1
16	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_16_trail	0
17	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_17_trail	1
18	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_18_trail	0
19	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_19_trail	1
20	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_20_trail	1
21	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_21_trail	1
22	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_22_trail	1
23	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_23_trail	1
24	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_24_trail	1
25	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_25_trail	1
26	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_26_trail	1
27	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_27_trail	0
28	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_28_trail	1
29	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_29_trail	1
30	5510	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_30_trail	1
Detection Percentage (%)			86.6
Limit			>70

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 6
 Test Date : 2020/08/10
 Test Mode : Mode 3: Transmit (802.11ac-80BW)-CDD

Trial #	Frequency (MHz)	*Filename	1= Detection 0= No Detection
1	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_1_trail	1
2	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_2_trail	1
3	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_3_trail	1
4	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_4_trail	1
5	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_5_trail	1
6	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_6_trail	1
7	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_7_trail	1
8	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_8_trail	1
9	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_9_trail	1
10	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_10_trail	1
11	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_11_trail	1
12	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_12_trail	1
13	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_13_trail	1
14	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_14_trail	1
15	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_15_trail	1
16	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_16_trail	1
17	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_17_trail	1
18	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_18_trail	1
19	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_19_trail	1
20	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_20_trail	0
21	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_21_trail	1
22	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_22_trail	1
23	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_23_trail	1
24	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_24_trail	1
25	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_25_trail	1
26	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_26_trail	0
27	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_27_trail	1
28	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_28_trail	1
29	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_29_trail	1
30	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_30_trail	1
Detection Percentage (%)			93.3
Limit			>70

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 6
 Test Date : 2020/08/11
 Test Mode : Mode 4: Transmit (802.11ax-80BW)-CDD

Trial #	Frequency (MHz)	*Filename	1= Detection 0= No Detection
1	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_1_trail	1
2	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_2_trail	1
3	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_3_trail	1
4	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_4_trail	1
5	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_5_trail	1
6	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_6_trail	0
7	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_7_trail	1
8	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_8_trail	1
9	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_9_trail	1
10	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_10_trail	1
11	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_11_trail	1
12	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_12_trail	1
13	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_13_trail	1
14	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_14_trail	1
15	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_15_trail	0
16	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_16_trail	1
17	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_17_trail	1
18	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_18_trail	1
19	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_19_trail	1
20	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_20_trail	1
21	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_21_trail	1
22	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_22_trail	1
23	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_23_trail	1
24	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_24_trail	1
25	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_25_trail	1
26	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_26_trail	1
27	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_27_trail	1
28	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_28_trail	1
29	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_29_trail	1
30	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_30_trail	1
Detection Percentage (%)			93.3
Limit			>70

Product : LV55
 Test Item : Statistical Performance Check
 Radar Type : Type 6
 Test Date : 2020/08/11
 Test Mode : Mode 5: Transmit (802.11ax-80BW)-Beamforming

Trial #	Frequency (MHz)	*Filename	1= Detection 0= No Detection
1	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_1_trail	1
2	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_2_trail	1
3	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_3_trail	1
4	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_4_trail	1
5	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_5_trail	1
6	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_6_trail	1
7	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_7_trail	1
8	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_8_trail	1
9	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_9_trail	0
10	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_10_trail	1
11	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_11_trail	1
12	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_12_trail	1
13	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_13_trail	1
14	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_14_trail	1
15	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_15_trail	1
16	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_16_trail	1
17	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_17_trail	1
18	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_18_trail	1
19	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_19_trail	1
20	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_20_trail	1
21	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_21_trail	1
22	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_22_trail	0
23	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_23_trail	1
24	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_24_trail	1
25	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_25_trail	1
26	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_26_trail	1
27	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_27_trail	1
28	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_28_trail	1
29	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_29_trail	1
30	5530	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_30_trail	1
Detection Percentage (%)			93.3
Limit			>70

TYPE 6 PARAMETER SHEET

Trial Number : 1

Bursts in Trial: 100

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
1	5.53	5.394	80	
2	5.53	5.32	80	
3	5.53	5.402	80	
4	5.53	5.352	80	
5	5.53	5.509	80	*
6	5.53	5.598	80	
7	5.53	5.434	80	
8	5.53	5.423	80	
9	5.53	5.599	80	
10	5.53	5.371	80	
11	5.53	5.442	80	
12	5.53	5.282	80	
13	5.53	5.561	80	*
14	5.53	5.385	80	
15	5.53	5.713	80	
16	5.53	5.675	80	
17	5.53	5.469	80	
18	5.53	5.34	80	
19	5.53	5.57	80	*
20	5.53	5.429	80	
21	5.53	5.403	80	
22	5.53	5.523	80	*
23	5.53	5.549	80	*
24	5.53	5.593	80	
25	5.53	5.408	80	
26	5.53	5.664	80	
27	5.53	5.648	80	
28	5.53	5.458	80	
29	5.53	5.366	80	
30	5.53	5.379	80	
31	5.53	5.565	80	*
32	5.53	5.568	80	*
33	5.53	5.307	80	
34	5.53	5.392	80	
35	5.53	5.309	80	
36	5.53	5.655	80	
37	5.53	5.526	80	*
38	5.53	5.633	80	
39	5.53	5.581	80	
40	5.53	5.592	80	
41	5.53	5.65	80	
42	5.53	5.305	80	
43	5.53	5.28	80	
44	5.53	5.545	80	*
45	5.53	5.502	80	*
46	5.53	5.328	80	
47	5.53	5.46	80	
48	5.53	5.41	80	
49	5.53	5.601	80	

50	5.53	5.609	80	
51	5.53	5.611	80	
52	5.53	5.553	80	*
53	5.53	5.258	80	
54	5.53	5.424	80	
55	5.53	5.294	80	
56	5.53	5.673	80	
57	5.53	5.334	80	
58	5.53	5.276	80	
59	5.53	5.327	80	
60	5.53	5.406	80	
61	5.53	5.472	80	
62	5.53	5.676	80	
63	5.53	5.414	80	
64	5.53	5.363	80	
65	5.53	5.642	80	
66	5.53	5.256	80	
67	5.53	5.653	80	
68	5.53	5.687	80	
69	5.53	5.255	80	
70	5.53	5.459	80	
71	5.53	5.56	80	*
72	5.53	5.641	80	
73	5.53	5.404	80	
74	5.53	5.562	80	*
75	5.53	5.416	80	
76	5.53	5.257	80	
77	5.53	5.538	80	*
78	5.53	5.383	80	
79	5.53	5.497	80	*
80	5.53	5.505	80	*
81	5.53	5.647	80	
82	5.53	5.447	80	
83	5.53	5.617	80	
84	5.53	5.718	80	
85	5.53	5.479	80	
86	5.53	5.341	80	
87	5.53	5.558	80	*
88	5.53	5.422	80	
89	5.53	5.263	80	
90	5.53	5.534	80	*
91	5.53	5.4	80	
92	5.53	5.71	80	
93	5.53	5.603	80	
94	5.53	5.418	80	
95	5.53	5.317	80	
96	5.53	5.695	80	
97	5.53	5.312	80	
98	5.53	5.308	80	
99	5.53	5.251	80	
100	5.53	5.624	80	