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TEST REPORT

Covering the DYNAMIC FREQUENCY SELECTION (DFS) REQUIREMENTS OF

FCC Part 15 Subpart E (UNII), RSS-247

Aruba, a Hewlett Packard Enterprise company Model(s): APIN0534 and APIN0535

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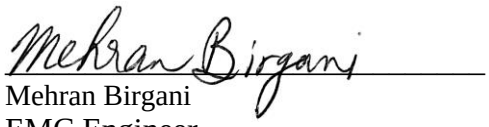

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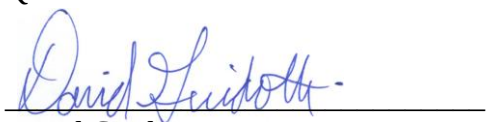

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-	September 29, 2021	Initial Release	-
1	October 26, 2021	Added Zero Wait DFS results after CAC completion	dwb

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SCOPE

Test data has been taken pursuant to the relevant DFS requirements of the following standard(s):

- FCC Part 15 Subpart E Unlicensed National Information Infrastructure (U-NII) Devices.
- RSS-247 Local Area Network Devices.

Tests were performed in accordance with these standards together with the current published versions of the basic standards referenced therein including FCC KDB 905462 D02 and FCC KDB 905462 D03 as outlined in NTS Silicon Valley test procedures. The test results recorded herein are based on a single type test of the Aruba, a Hewlett Packard Enterprise company model APIN0534 and APIN0535 and therefore apply only to the tested sample. The sample was selected and prepared by Mark Hill of Aruba, a Hewlett Packard Enterprise company.

OBJECTIVE

The objective of the manufacturer is to comply with the standards identified in the previous section. In order to demonstrate compliance, the manufacturer or a contracted laboratory makes measurements and takes the necessary steps to ensure that the equipment complies with the appropriate technical standards. Compliance with some DFS features is covered through a manufacturer statement or through observation of the device.

STATEMENT OF COMPLIANCE

The tested sample of the Aruba, a Hewlett Packard Enterprise company model APIN0534 and APIN0535 complied with some of the DFS requirements of FCC Part 15.407(h)(2), RSS-247.

Maintenance of compliance is the responsibility of the manufacturer. Any modifications to the product should be assessed to determine their potential impact on the compliance status of the device with respect to the standards detailed in this test report.

DEVIATIONS FROM THE STANDARD

No deviations were made from the test methods and requirements covered by the scope of this report for the tests performed. Only the detection probability and CAC timing tests were performed for this version of the product incorporating a “Zero Wait” CAC function. Testing was performed in accordance with the test plan provided by Aruba, a Hewlett Packard Enterprise company. Original DFS test results are in NTS report FR-077654.21.

TEST RESULTS

TEST RESULTS SUMMARY – FCC Part 15, MASTER DEVICE

Table 1 - FCC Part 15 Subpart E Master Device Test Result Summary (20MHz – Zero Wait Target Channel)

Description	Radar Type	EUT Frequency	Measured Value	Requirement	Test Data	Status
Channel Availability Check (CAC) Time	Reference	5250-5350	60.1 s	≥ 60 s	Appendix C	Pass

1) Tests were performed using the radiated test method.
2) The measured detection threshold is based on testing the master device using the radiated test method when connected to an antenna with a nominal gain of 2.0dBi. The limit is based on an eirp of more than 23dBm.

Table 2 - FCC Part 15 Subpart E Master Device Test Result Summary (80MHz – Zero Wait Target Channel)

Description	Radar Type	EUT Frequency	Measured Value	Requirement	Test Data	Status
In-Service Monitoring Detection Threshold	Type 1 through Type 6	5530 MHz	-63dBm	-63dBm (Note 2)	Appendix B	PASS

3) Tests were performed using the radiated test method.
4) The measured detection threshold is based on testing the master device using the radiated test method when connected to an antenna with a nominal gain of 2.0dBi. The limit is based on an eirp of more than 23dBm.
5) The in-service monitoring detection threshold and detection probability measurements were made with the device operating in the 5500-5700 MHz band.
6) The 99% bandwidth test results are contained within a separate RF test report.

Table 3 - FCC Part 15 Subpart E Master Device Test Result Summary (80MHz Operating Channel)

Description	Radar Type	EUT Frequency	Measured Value	Requirement	Test Data	Status
In-Service Monitoring Detection Threshold	Type 1 through Type 6	5290 MHz	-63dBm	-63dBm (Note 2)	Appendix B	PASS

1) Tests were performed using the radiated test method.
2) The measured detection threshold is based on testing the master device using the radiated test method when connected to an antenna with a nominal gain of 2.0dBi. The limit is based on an eirp of more than 23dBm.
3) The in-service monitoring detection threshold and detection probability measurements were made with the device operating in the 5500-5700 MHz band.
4) The 99% bandwidth test results are contained within a separate RF test report.

MEASUREMENT UNCERTAINTIES

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level, with a coverage factor (k=2) and were calculated in accordance with UKAS document LAB 34.

Measurement	Measurement Unit	Expanded Uncertainty
Timing (Channel move time, aggregate transmission time)	ms	Timing resolution ± 0.24%
Timing (non occupancy period)	seconds	5 seconds
DFS Threshold (radiated)	dBm	1.6
DFS Threshold (conducted)	dBm	1.2

EQUIPMENT UNDER TEST (EUT) DETAILS

GENERAL

The Aruba, a Hewlett Packard Enterprise company models APIN0534 and APIN0535 are enterprise grade Wi-Fi access points with two radios (one for 5 GHz bands and a second for 2.4 GHz bands). In addition, it incorporates a Bluetooth Low Energy (BLE) and ZigBee radio. Since the EUT could be placed in any position during operation, the EUT was treated as tabletop equipment during testing to simulate the end-user environment. The electrical rating of the EUT is 48 Volts DC, 0.75 Amps or POE (57 Volts DC, 0.95Amps).
The sample was received on August 12, 2021 and tested on August 13-17 and October 26, 2021. The EUT consisted of the following component(s):

Manufacturer	Model	Description	Serial Number
Aruba	APIN0534	Wi-Fi Access Point	CNH7K9V004

The manufacturer declared values for the EUT operational characteristics that affect DFS are as follows:

Operating Modes (5250 – 5350 MHz, 5470 – 5725 MHz)

☒ Master Device 5250-5350 MHz

☒ Master Device 5470-5725 MHz

Antenna Gains / EIRP (5250 – 5350 MHz, 5470 – 5725 MHz)

	5250 – 5350 MHz	5470 – 5725 MHz
Lowest Antenna Gain (dBi)	2	2
Highest Antenna Gain (dBi)	8.5	8.5
EIRP Output Power (dBm)	22.6	29.9

☒ Power can exceed 200mW eirp

Channel Protocol

☒ IP Based

☐ Frame Based

ENCLOSURE

The EUT enclosure measures approximately 24.5 by 24.5 by 5.0 centimeters. It is primarily constructed of aluminum and uncoated coated plastic.

MODIFICATIONS

The EUT did not require modifications during testing in order to comply with the requirements of the standard(s) referenced in this test report.

SUPPORT EQUIPMENT

The following equipment was used as local support equipment for testing:

Manufacturer	Model	Description	Serial Number
*Dell**	*Latitude 7490*	*Laptop*	*J2VHST2*
Aruba	ADP-50GR BD	AC/DC Adapter	JJ0D9CK02FA
Dell	Latitude 7490	Laptop	4LM3RV2
Aruba	7008	Controller	CNJHJSP09J

*The italicized device was the client device.

EUT INTERFACE PORTS

The I/O cabling configuration during testing was as follows:

		Cable(s)		
Port	Connected To	Description	Shielded or Unshielded	Length (m)
ENET0	Controller	Cat 5	Shielded	7.5
Power	AC/DC Adapter	2 Wire	Unshielded	1.0
Laptop USB	Controller	USB/Serial	Unshielded	1.5
Laptop Eth	Controller	Cat 5	Unshielded	1.0

EUT OPERATION

The EUT was operating with the following software. The software is secured to prevent the user from disabling the DFS function.

Master Device: ArubaOS 8.9.0.0 Build 80773

The manufacturer provided special software that over-rode the non-occupancy mechanism (allowing return to the same channel) for the purposes of determining the probability of detection.

During the in-service monitoring detection probability and channel moving tests the system was configured with a streaming video file from the master device (sourced by the PC connected to the master device via an Ethernet interface) to the client device.

The streamed file was FCC movie and iperf and the client device was using VLC to view the file. The channel loading was evaluated to be 18.5% (refer to figure 9) meeting the approximately 17% loading as required by FCC KDB 905462 D02

Refer to the APIN0534 and APIN0535 theory of operation document for the information about the power-on cycle time, statement about security of radar detection parameters and initial channel selection.

RADAR WAVEFORMS

Table 4 - FCC Short Pulse Radar Test Waveforms						
Radar Type		Pulse Width (µsec)	PRI (µsec)	Pulses / burst	Minimum Detection Percentage	Minimum Number of Trials
0		1	1428	18	See **Note 1**	
1	1a	1	15 unique PRI values randomly selected from the list of 23 PRI values in **Note 2** below	Round Up 1/360* $19*10^6$/ PRI $_{\mu sec}$	60%	15
	1b		518-3066 with minimum increment of 1 µsec, excluding PRI values selected in 1a			15
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 is used for the detection bandwidth test, channel move time, and channel closing time tests.

Note 2: Pulse repetition intervals values for Test 1a above

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

Table 5 - FCC Long Pulse Radar Test Waveforms							
Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Pulses / burst	Number of *Bursts*	Minimum Detection Percentage	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Table 6 - FCC Frequency Hopping Radar Test Waveforms							
Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses / hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Detection Percentage	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

DFS TEST METHODS

RADIATED TEST METHOD

The combination of master and slave devices is located in an anechoic chamber. The simulated radar waveform is transmitted from a directional horn antenna (typically an EMCO 3115) toward the unit performing the radar detection (radar detection device, RDD). Every effort is made to ensure that the main beam of the EUT's antenna is aligned with the radar-generating antenna which is oriented in vertical polarization.

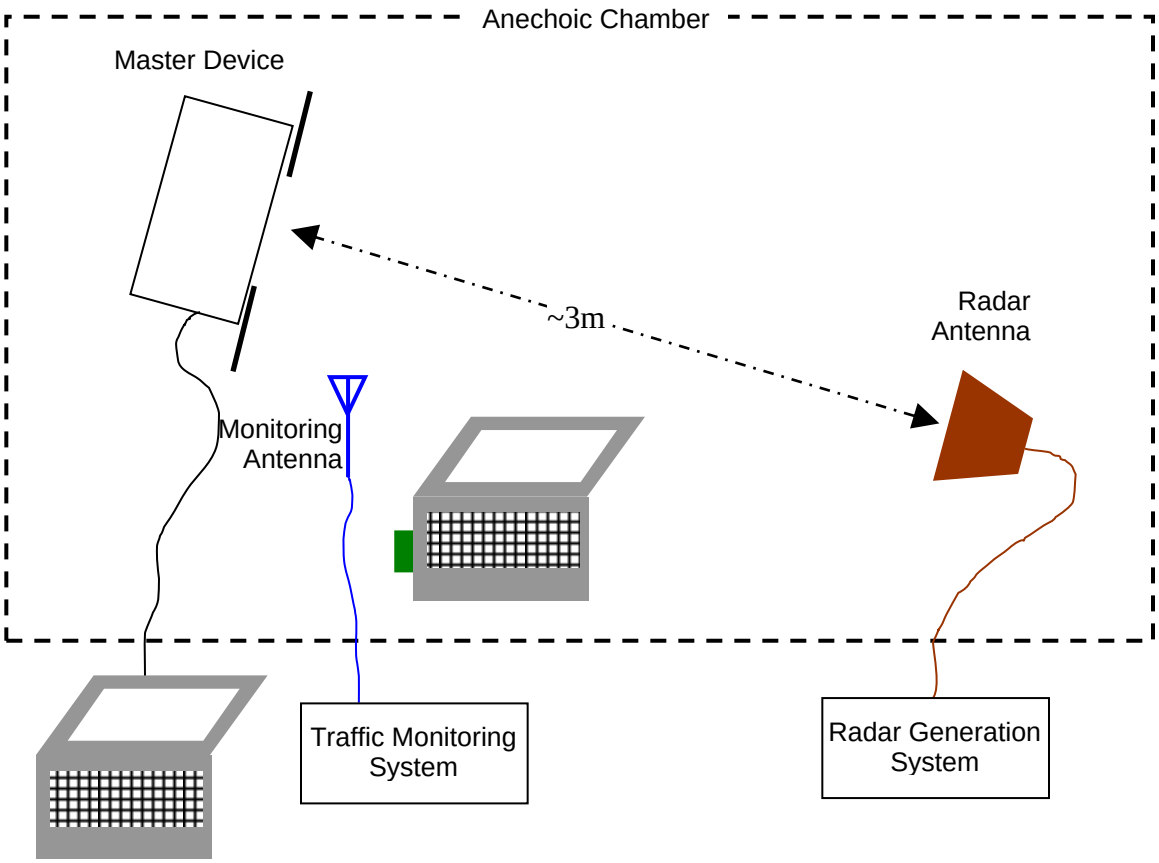


Figure 1 Test Configuration for radiated Measurement Method

The signal level of the simulated waveform is set to a reference level equal to the threshold level (plus 1dB if testing against FCC requirements). Lower levels may also be applied on request of the manufacturer. The level reported is the level at the RDD antenna and so it is not corrected for the RDD's antenna gain. The RDD is configured with the lowest gain antenna assembly intended for use with the device.

The signal level is verified by measuring the CW signal level from the radar generation system using a reference antenna of gain G_{REF} (dBi). The radar signal level is calculated from the measured level, R (dBm), and any cable loss, L (dB), between the reference antenna and the measuring instrument:

$$\text{Applied level (dBm)} = R - G_{REF} + L$$

If both master and client devices have radar detection capability then the device not under test is positioned with absorbing material between its antenna and the radar generating antenna, and the radar level at the non RDD is verified to be at least 20dB below the threshold level to ensure that any responses are due to the RDD detecting radar.

The antenna connected to the channel monitoring subsystem is positioned to allow both master and client transmissions to be observed, with the level of the EUT's transmissions between 6 and 10dB higher than those from the other device.

DFS MEASUREMENT INSTRUMENTATION

RADAR GENERATION SYSTEM

An Agilent PSG is used as the radar-generating source. The integral arbitrary waveform generators are programmed using Agilent's "Pulse Building" software and NTS Silicon Valley custom software to produce the required waveforms, with the capability to produce both un-modulated and modulated (FM Chirp) pulses. Where there are multiple values for a specific radar parameter then the software selects a value at random and, for FCC tests, the software verifies that the resulting waveform is truly unique.

With the exception of the hopping waveforms required by the FCC's rules (see below), the radar generator is set to a single frequency within the radar detection bandwidth of the EUT. The frequency is varied from trial to trial by stepping in 5MHz steps. For radar types with variable parameters, each detection probability trial is performed using a unique set of parameters obtained by a random selection with uniform distribution for each of the variable parameters.

Frequency hopping radar waveforms are simulated using a time domain model. A randomly hopping sequence algorithm (which uses each channel in the hopping radar's range once in a hopping sequence) generates a hop sequence. A segment of the first 100 elements of the hop sequence are then examined to determine if it contains one or more frequencies within the radar detection bandwidth of the EUT. If it does not then the first element of the segment is discarded and the next frequency in the sequence is added. The process repeats until a valid segment is produced. The radar system is then programmed to produce bursts at time slots coincident with the frequencies within the segment that fall in the detection bandwidth. The frequency of the generator is stepped in 1 MHz increments across the EUT's detection range.

The radar signal level is verified during testing using a long duration pulse waveform generated in the same manner as the normal radar generated signals.

The generator output is connected to the coupling port of the conducted set-up or to the radar-generating antenna. The radar generating antenna (when used) is oriented for vertical polarization.

CHANNEL MONITORING SYSTEM

Channel monitoring is achieved using a spectrum analyzer and digital storage oscilloscope. The analyzer is configured in a zero-span mode, center frequency set to the radar waveform's frequency or the center frequency of the EUT's operating channel. The IF output of the analyzer is connected to one input of the oscilloscope.

A signal generator output is set to send either the modulating signal directly or a pulse gate with an output pulse co-incident with each radar pulse. This output is connected to a second input on the oscilloscope and the oscilloscope displays both the channel traffic (via the if input) and the radar pulses on its display.

For in service monitoring tests the analyzer sweep time is set to > 20 seconds and the oscilloscope is configured with a data record length of 10 seconds for the short duration and frequency hopping waveforms, 20 seconds for the long duration waveforms. Both instruments are set for a single acquisition sequence. The analyzer is triggered 500ms before the start of the waveform and the oscilloscope is triggered directly by the modulating pulse train. Timing measurements for aggregate channel transmission time and channel move time are made from the oscilloscope data, with the end of the waveform clearly identified by the pulse train on one trace. The analyzer trace data is used to confirm that the last transmission occurred within the 10-second record of the oscilloscope. If necessary the record length of the oscilloscope is expanded to capture the last transmission on the channel prior to the channel move.

Channel availability check time timing plots are made using the analyzer. The analyzer is triggered at start of the EUT's channel availability check and used to verify that the EUT does not transmit when radar is applied during the check time.

The analyzer detector and oscilloscope sampling mode is set to peak detect for all plots.

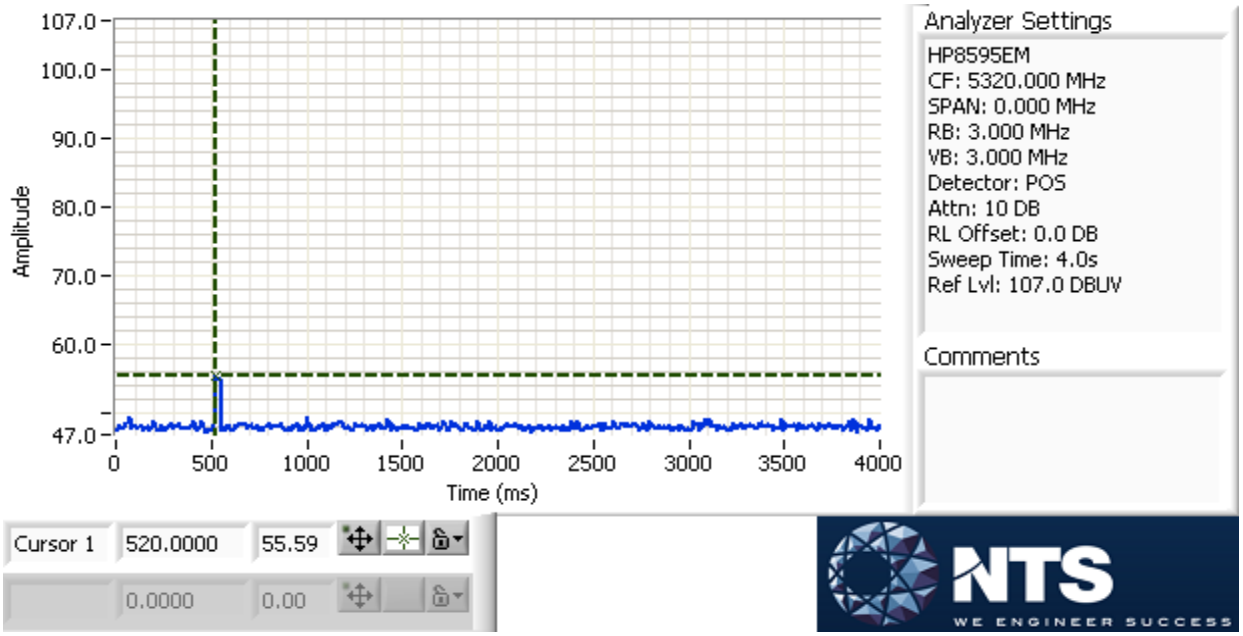


Figure 2 SA Noise Floor During Testing (radar shown at 520 ms)

RADAR GENERATOR PLOTS

The radar generator was connected to Spectrum Analyzer (SA) input, with the SA set to zero span, 3 MHz RBW, 3 MHz VBW. The SA IF output was connected to an oscilloscope to provide timing plots.

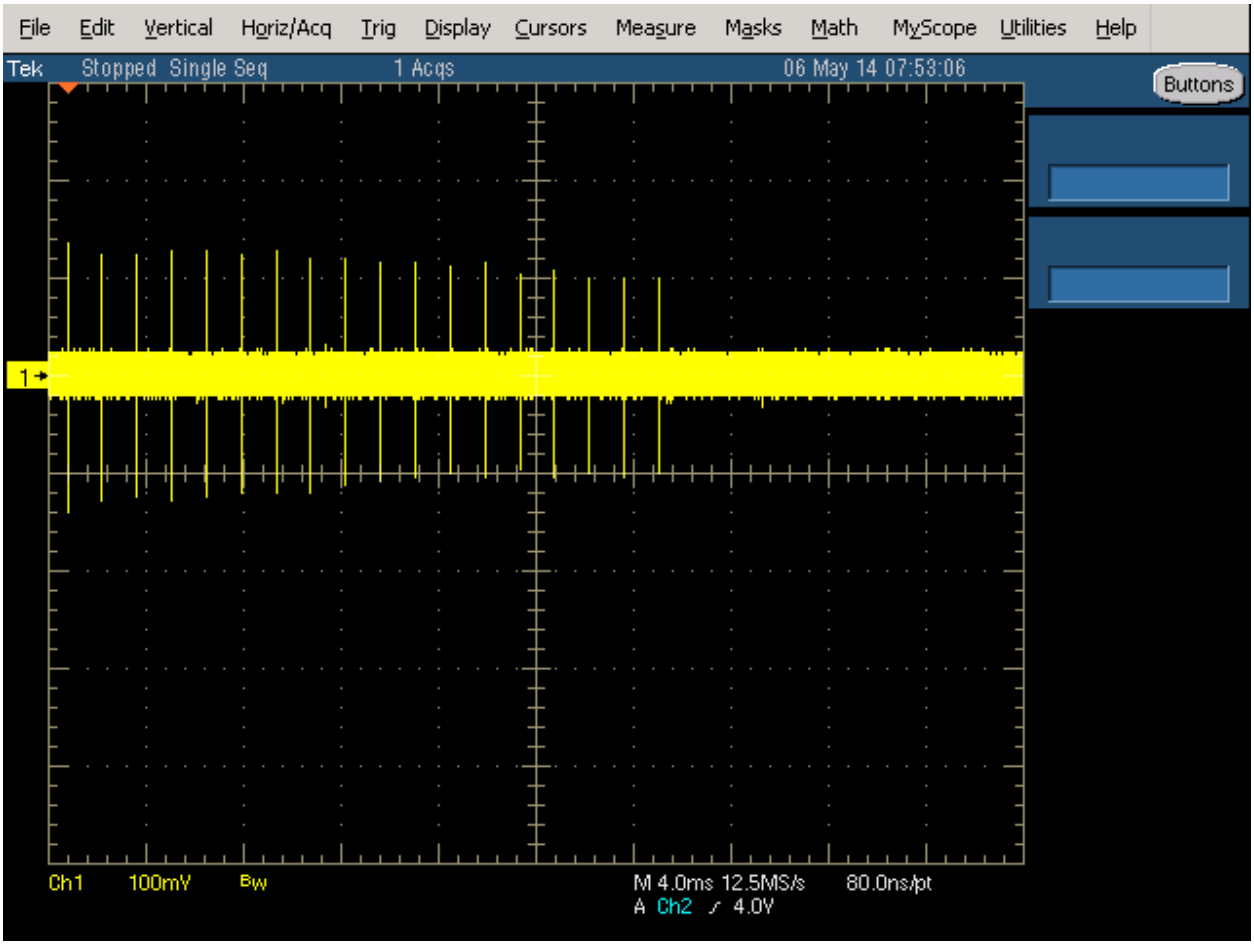


Figure 3 FCC Type 1 Radar (18 pulses)

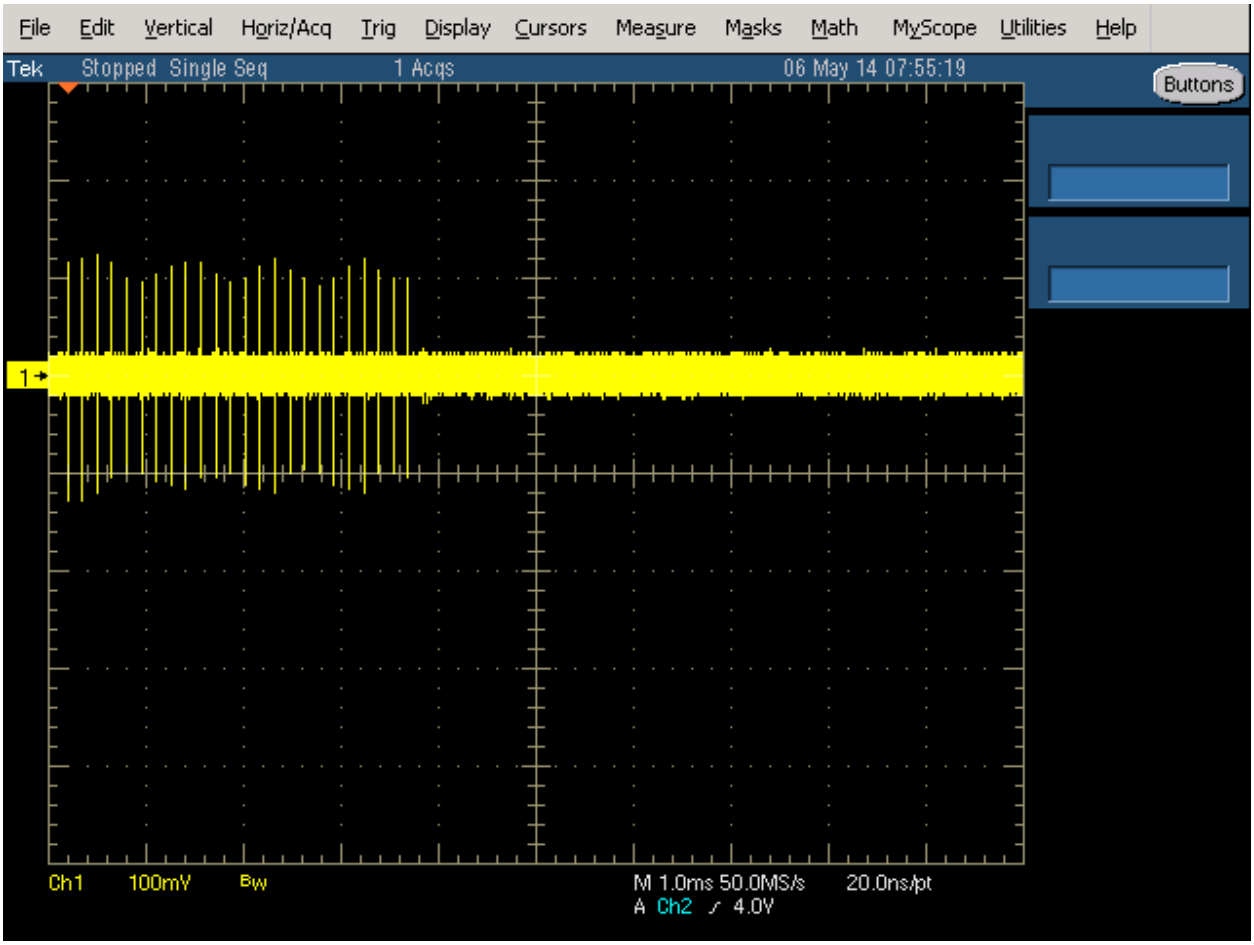


Figure 4 FCC Type 2 Radar (24 pulses)

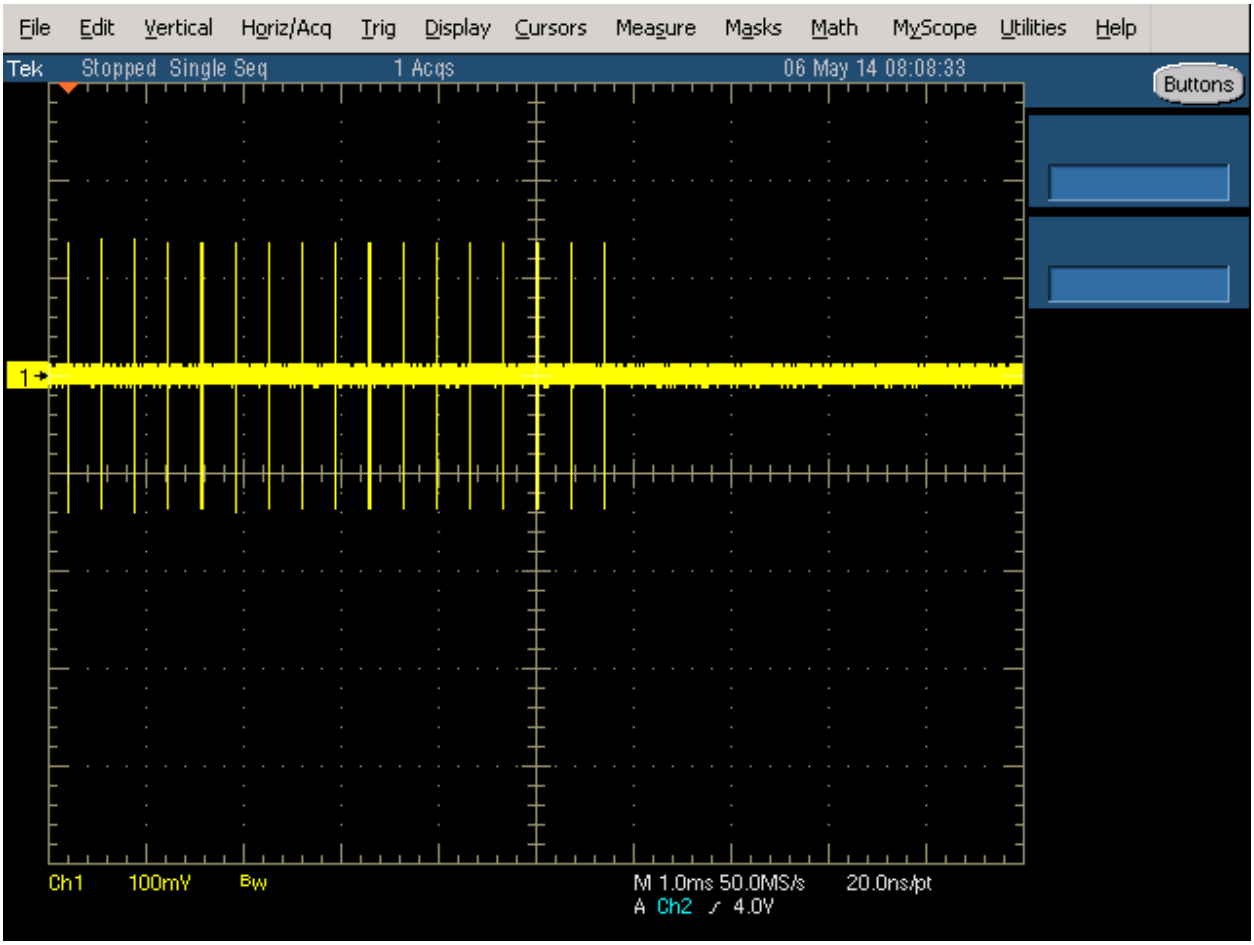


Figure 5 FCC Type 3 Radar (17 pulses)

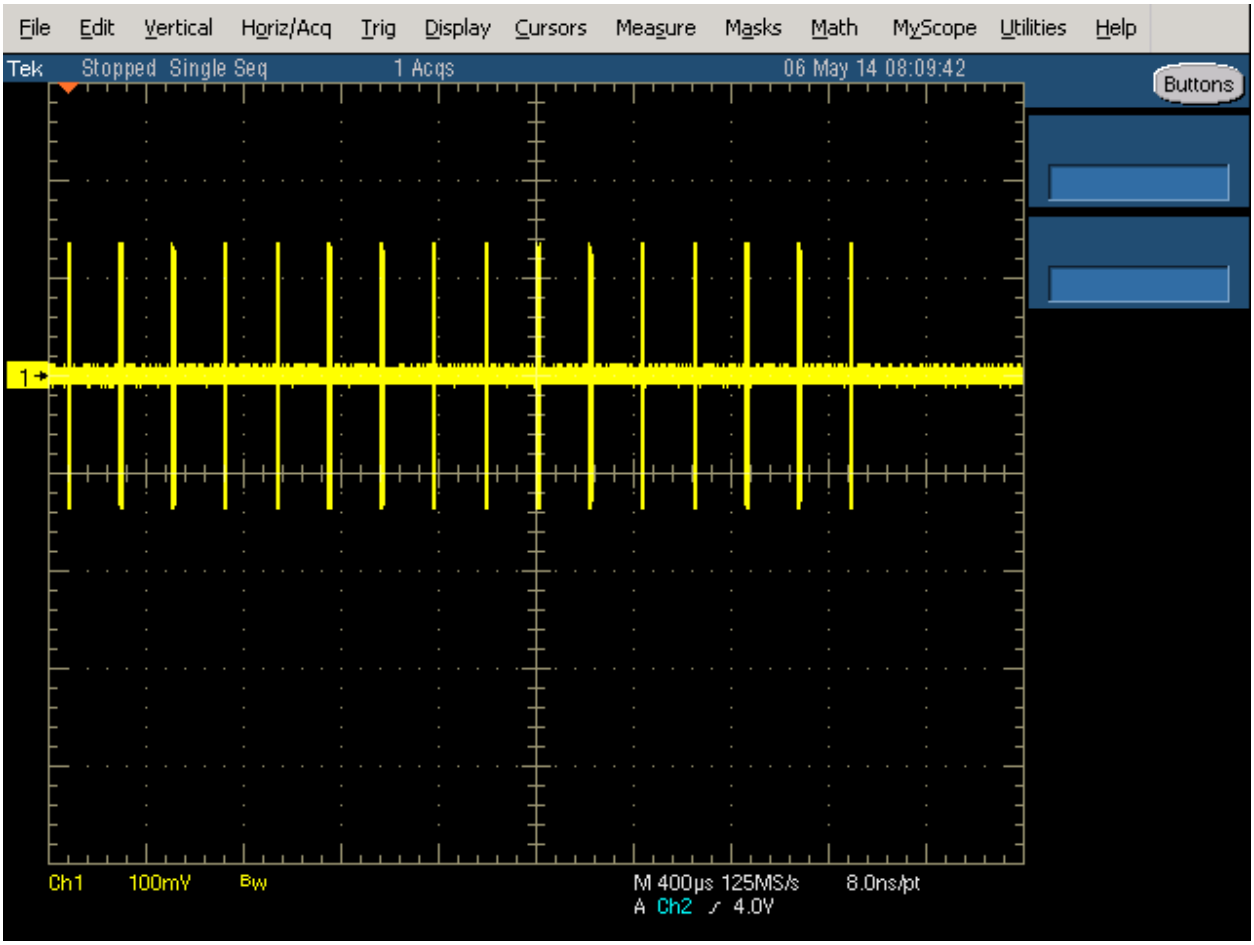


Figure 6 FCC Type 4 Radar (16 pulses)

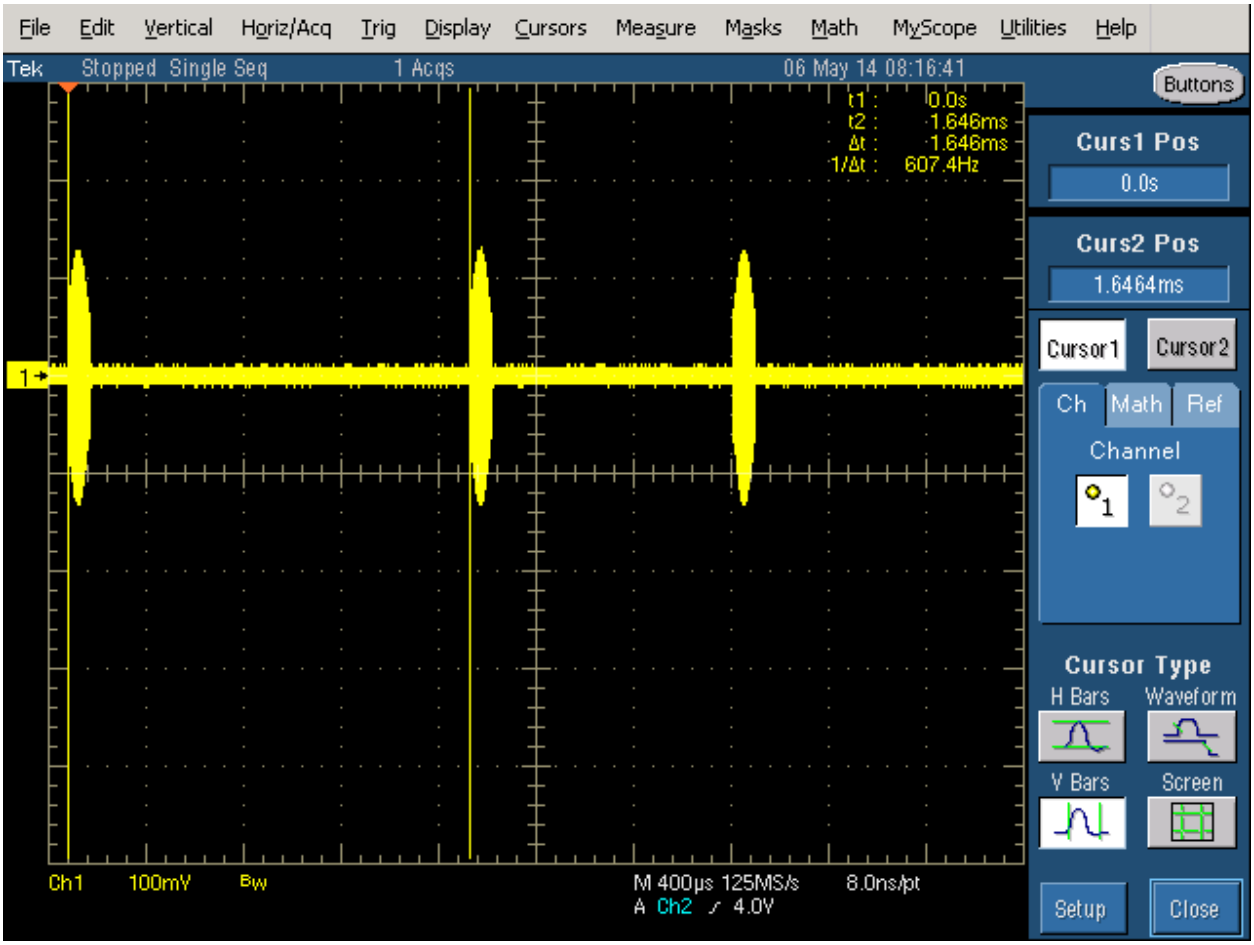


Figure 7 FCC Type 5 Radar (burst with three pulses, 1650 µs first period)

The shape is round due to chirped frequency during pulse as the SA is in zero span with 3 MHz BW.

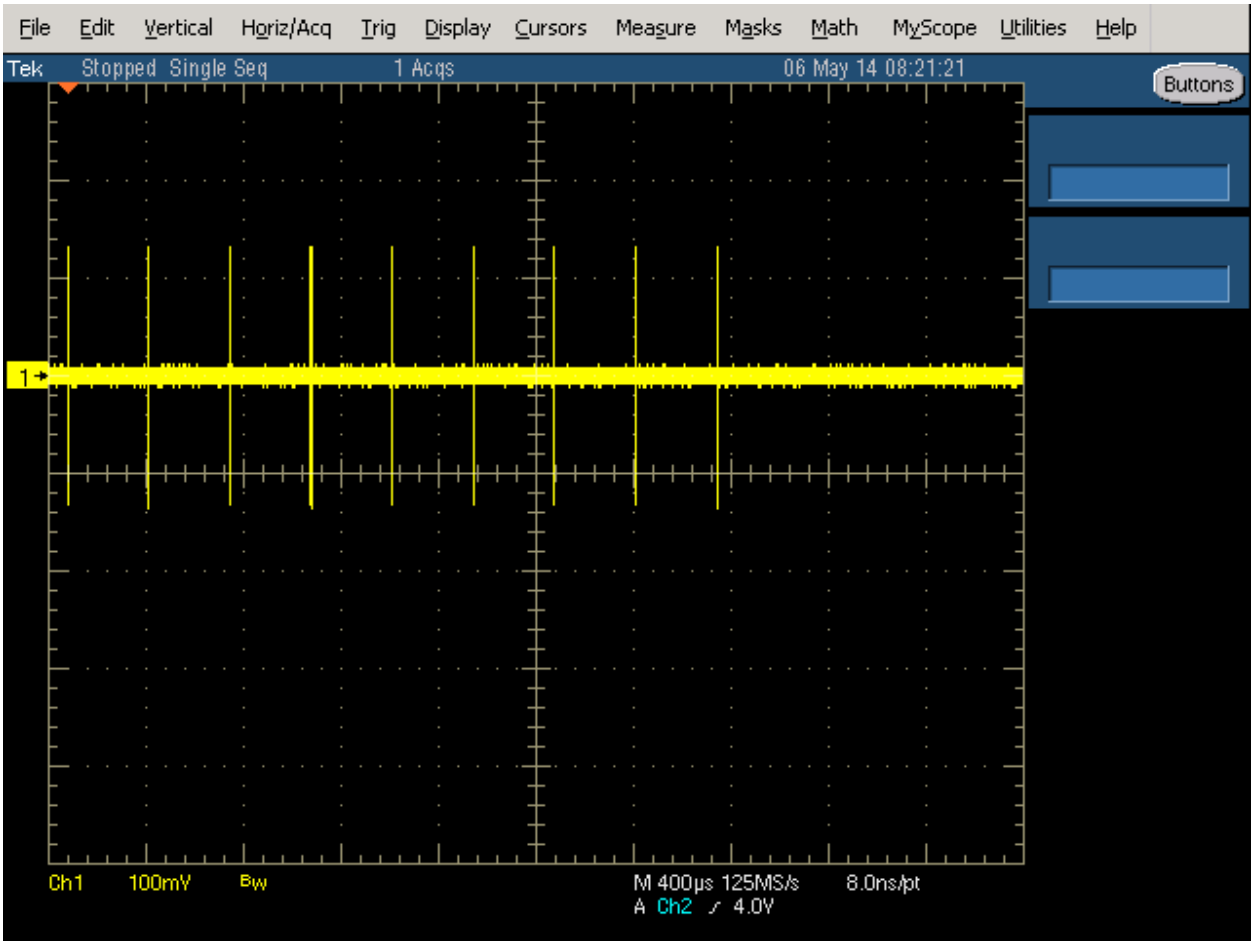


Figure 8 FCC Type 6 Radar (9 pulses in each burst)

DFS MEASUREMENT METHODS

DFS RADAR DETECTION BANDWIDTH

The radar detection bandwidth is determined by using FCC radar waveform 0 and applying radar pulses at offsets from the center channel frequency by multiples of 1-5 MHz. These bursts are applied with no traffic on the channel. The first frequencies above and below the center channel frequency that have a detection rate below 90% define the radar bandwidth, the actual range being 1MHz below the upper frequency and 1MHz above the lower frequency.

DFS – CHANNEL CLOSING TRANSMISSION TIME AND CHANNEL MOVE TIME

Channel clearing and closing times are measured by applying a burst of radar with the device configured to change channel and by observing the channel for transmissions. The time between the end of the applied radar waveform and the final transmission on the channel is the channel move time.

The aggregate transmission closing time is measured using below method:

FCC – the total time of all individual transmissions from the EUT that are observed starting 200ms at the end of the last radar pulse in the waveform. This value is required to be less than 60ms.

DFS – CHANNEL NON-OCCUPANCY AND VERIFICATION OF PASSIVE SCANNING

The channel that was in use prior to radar detection by the master is additionally monitored for 30 minutes to ensure no transmissions on the vacated channel over the required non-occupancy period. This is achieved by tuning the spectrum analyzer to the vacated channel in zero-span mode and connecting the IF output to an oscilloscope. The oscilloscope is triggered by the radar pulse and set to provide a single sweep (in peak detect mode) that lasts for at least 30 minutes after the end of the channel move time.

DFS – DETECTION PROBABILITY

Radar signals at the threshold level +1 dB per FCC KDB 905462 D02 table 3 are applied to the EUT for each defined radar type. Multiple trials are performed to determine the probability of detection for each radar type which is compared to the required probabilities.

DFS – "ZERO-WAIT" CAC

Detection probability tests are performed on a potential new channel should the operating channel become unavailable due to the detection of radar. This allows for the use of the new channel without an initial 60 second CAC time normally required when changing channels.

DFS CHANNEL AVAILABILITY CHECK TIME

It is preferred that the EUT report when it starts the radar channel availability check. If the EUT does not report the start of the check time, then the time to start transmitting on a channel after switching the device on is measured to approximate the time from power-on to the end of the channel availability check. The start of the channel availability check is assumed to be 60 seconds prior to the first transmission on the channel.

To evaluate the channel availability check, a single burst of one radar type is applied within the first 2 seconds of the start of the channel availability check and it is verified that the device does not use the channel by continuing to monitor the channel for a period of at least 60 seconds. The test is repeated by applying a burst of radar in the last 2 seconds (i.e. between 58 and 60 seconds after the start of CAC when evaluating a 60-second CAC) of the channel availability check.

UNIFORM LOADING

Compliance with the FCC's channel loading requirement is demonstrated through the manufacturer's operational description for the device under test.

TRANSMIT POWER CONTROL (TPC)

Compliance with the transmit power control requirements for devices is demonstrated through measurements showing multiple power levels and manufacturer statements explaining how the power control is implemented.

SAMPLE CALCULATIONS

DETECTION PROBABILITY / SUCCESS RATE

The detection probability, or success rate, for any one radar waveform equals the number of successful trials divided by the total number of trials for that waveform.

In the case of the FCC requirements, for radar waveform types 1 through 4 an additional calculation is made to determine the average detection probability over all four radar waveform types. This calculation is the arithmetic mean of the four individual probabilities.

THRESHOLD LEVEL

The threshold level is the level of the simulated radar waveform at the EUT's antenna. If the test is performed in a conducted fashion then the level at the rf input equals the level at the antenna plus the gain of the antenna assembly, in dBi. The gain of the antenna assembly equals the gain of the antenna minus the loss of the cabling between the rf input and the antenna. The lowest gain value for all antenna assemblies intended for use with the device is used when making this calculation.

If the test is performed using the radiated method then the threshold level is the level at the antenna.

Appendix A Test Equipment Calibration Data

Manufacturer	Description	Model #	Asset #	Cal Due
Hewlett Packard	EMC Spectrum Analyzer 9 kHz - 6.5 GHz	8595EM	WC062528	04-Jun-22
ETS Lindgren	Antenna, Horn, 1-18 GHz	3117	WC064480	07-Jul-22
EMCO	Antenna, Horn, 1-18 GHz	3115	WC064707	07-Jul-22
Agilent Technologies	PSG, Vector Signal Generator, (250kHz - 20GHz)	E8267D	WC055673	22-Apr-22
Tektronix	350 MHz Digital Oscilloscope	TDS5034B	WC062552	19-Feb-22

Appendix B Test Data Tables for Radar Detection Probability

The plot below shows the channel loading during testing as evaluated over a 1 second period. The traffic was generated by iPerf and streaming video using VLC.

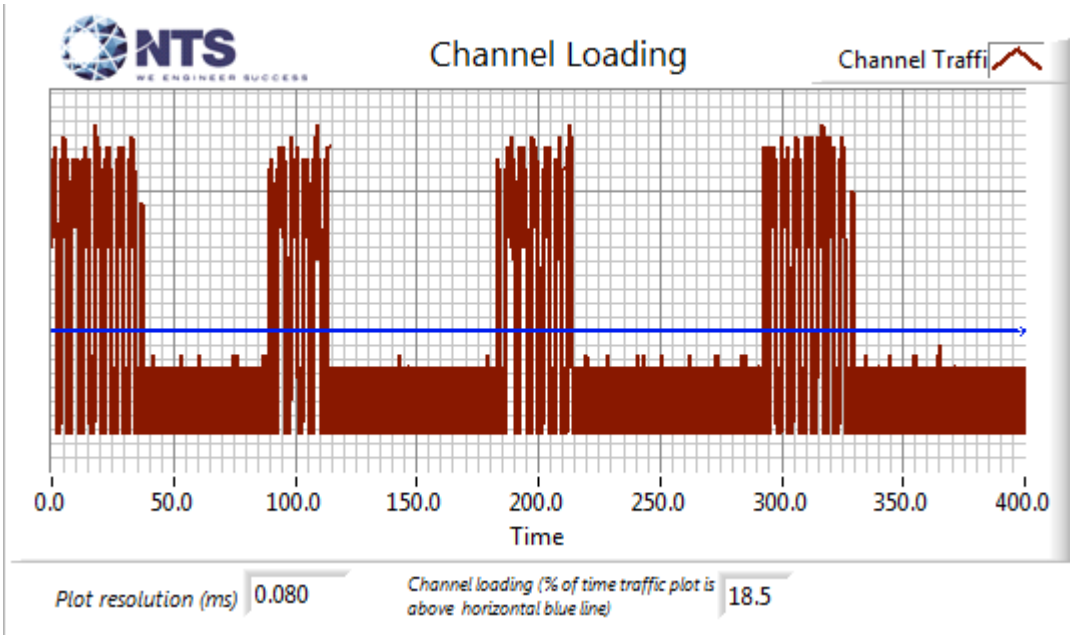


Figure 9 Channel Utilization During In-Service Detection Measurements (80MHz)

Table 7 - Summary of All Results 80 MHz (Zero Wait Target – 5530MHz, channel 100E)				
Waveform Name	Pd (%)	Pd Required (%)	Number of Trials	Status
FCC Short Pulse Radar (Type 1A)	100.0 %	60.0 %	15	PASSED
FCC Short Pulse Radar (Type 1B)	100.0 %	60.0 %	15	PASSED
FCC Short Pulse Radar (Type 2)	90.0 %	60.0 %	30	PASSED
FCC Short Pulse Radar (Type 3)	70.0 %	60.0 %	30	PASSED
FCC Short Pulse Radar (Type 4)	76.7 %	60.0 %	30	PASSED
Aggregate of above results	84.2 %	80.0 %	120	PASSED
FCC Long Pulse Radar (Type 5)	83.3 %	80.0 %	30	PASSED
FCC frequency hopping radar (Type 6)	100.0 %	70.0 %	30	PASSED

Table 8 - Summary of All Results 80 MHz (Operating channel 5290MHz, channel 52E)				
Waveform Name	Pd (%)	Pd Required (%)	Number of Trials	Status
FCC Short Pulse Radar (Type 1A)	93.3 %	60.0 %	15	PASSED
FCC Short Pulse Radar (Type 1B)	100.0 %	60.0 %	15	PASSED
FCC Short Pulse Radar (Type 2)	90.0 %	60.0 %	30	PASSED
FCC Short Pulse Radar (Type 3)	86.7 %	60.0 %	30	PASSED
FCC Short Pulse Radar (Type 4)	76.7 %	60.0 %	30	PASSED
Aggregate of above results	87.5 %	80.0 %	120	PASSED
FCC Long Pulse Radar (Type 5)	80.0 %	80.0 %	30	PASSED
FCC frequency hopping radar (Type 6)	100.0 %	70.0 %	30	PASSED

Table 9 - FCC Short Pulse Radar (Type 1A) Results 80 MHz (Zero Wait Target – 5530MHz, channel 100E)						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Burst Information
1	86	1.0	618.0	Yes	5530.0MHz,-63.0dBm	Single burst
2	92	1.0	578.0	Yes	5535.0MHz,-63.0dBm	Single burst
3	89	1.0	598.0	Yes	5547.5MHz,-63.0dBm	Single burst
4	63	1.0	838.0	Yes	5552.1MHz,-63.0dBm	Single burst
5	62	1.0	858.0	Yes	5564.4MHz,-63.0dBm	Single burst
6	72	1.0	738.0	Yes	5566.1MHz,-63.0dBm	Single burst
7	59	1.0	898.0	Yes	5568.6MHz,-63.0dBm	Single burst
8	65	1.0	818.0	Yes	5491.4MHz,-63.0dBm	Single burst
9	102	1.0	518.0	Yes	5492.3MHz,-63.0dBm	Single burst
10	70	1.0	758.0	Yes	5498.5MHz,-63.0dBm	Single burst
11	68	1.0	778.0	Yes	5504.5MHz,-63.0dBm	Single burst
12	81	1.0	658.0	Yes	5510.4MHz,-63.0dBm	Single burst
13	76	1.0	698.0	Yes	5519.3MHz,-63.0dBm	Single burst
14	95	1.0	558.0	Yes	5529.0MHz,-63.0dBm	Single burst
15	58	1.0	918.0	Yes	5534.6MHz,-63.0dBm	Single burst

Table 10 - FCC Short Pulse Radar (Type 1B) Results 80 MHz (Zero Wait Target – 5530MHz, channel 100E)						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Burst Information
1	20	1.0	2737.0	Yes	5530.0MHz,-63.0dBm	Single burst
2	93	1.0	570.0	Yes	5539.6MHz,-63.0dBm	Single burst
3	19	1.0	2873.0	Yes	5547.8MHz,-63.0dBm	Single burst
4	29	1.0	1821.0	Yes	5554.1MHz,-63.0dBm	Single burst
5	39	1.0	1361.0	Yes	5567.0MHz,-63.0dBm	Single burst
6	21	1.0	2632.0	Yes	5568.6MHz,-63.0dBm	Single burst
7	20	1.0	2723.0	Yes	5491.4MHz,-63.0dBm	Single burst
8	22	1.0	2412.0	Yes	5496.6MHz,-63.0dBm	Single burst
9	28	1.0	1951.0	Yes	5500.3MHz,-63.0dBm	Single burst
10	26	1.0	2054.0	Yes	5510.2MHz,-63.0dBm	Single burst
11	98	1.0	544.0	Yes	5516.2MHz,-63.0dBm	Single burst
12	61	1.0	876.0	Yes	5526.3MHz,-63.0dBm	Single burst
13	77	1.0	689.0	Yes	5535.8MHz,-63.0dBm	Single burst
14	37	1.0	1439.0	Yes	5547.3MHz,-63.0dBm	Single burst
15	45	1.0	1189.0	Yes	5555.4MHz,-63.0dBm	Single burst

Table 11 - FCC Short Pulse Radar (Type 2) Results 80 MHz (Zero Wait Target – 5530MHz, channel 100E)						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Burst Information
1	28	3.9	224.0	Yes	5530.0MHz,-63.0dBm	Single burst
2	29	3.7	174.0	Yes	5540.1MHz,-63.0dBm	Single burst
3	24	2.0	153.0	Yes	5541.8MHz,-63.0dBm	Single burst
4	28	3.0	155.0	Yes	5546.2MHz,-63.0dBm	Single burst
5	27	3.8	164.0	Yes	5552.8MHz,-63.0dBm	Single burst
6	29	4.3	221.0	Yes	5560.2MHz,-63.0dBm	Single burst
7	29	4.9	154.0	Yes	5563.4MHz,-63.0dBm	Single burst
8	29	1.6	191.0	Yes	5568.6MHz,-63.0dBm	Single burst
9	24	1.8	163.0	No	5491.4MHz,-63.0dBm	Single burst
10	25	2.7	188.0	Yes	5491.4MHz,-63.0dBm	Single burst
11	27	1.4	159.0	Yes	5496.6MHz,-63.0dBm	Single burst
12	26	2.1	158.0	Yes	5503.0MHz,-63.0dBm	Single burst
13	24	2.0	213.0	Yes	5505.8MHz,-63.0dBm	Single burst
14	27	3.4	156.0	Yes	5509.1MHz,-63.0dBm	Single burst
15	29	3.0	158.0	Yes	5510.7MHz,-63.0dBm	Single burst
16	28	2.1	150.0	Yes	5517.9MHz,-63.0dBm	Single burst
17	25	1.8	217.0	Yes	5524.7MHz,-63.0dBm	Single burst
18	24	1.1	164.0	No	5528.9MHz,-63.0dBm	Single burst
19	26	3.2	227.0	Yes	5528.9MHz,-63.0dBm	Single burst
20	28	3.4	220.0	Yes	5536.0MHz,-63.0dBm	Single burst
21	24	4.7	215.0	Yes	5542.4MHz,-63.0dBm	Single burst
22	24	3.5	151.0	Yes	5555.3MHz,-63.0dBm	Single burst
23	23	3.5	179.0	Yes	5566.2MHz,-63.0dBm	Single burst
24	26	2.1	173.0	Yes	5568.6MHz,-63.0dBm	Single burst
25	26	2.1	179.0	Yes	5491.4MHz,-63.0dBm	Single burst
26	24	1.6	208.0	Yes	5491.6MHz,-63.0dBm	Single burst
27	25	1.6	166.0	Yes	5502.9MHz,-63.0dBm	Single burst
28	25	2.5	174.0	Yes	5508.2MHz,-63.0dBm	Single burst
29	24	1.8	198.0	Yes	5516.5MHz,-63.0dBm	Single burst
30	24	3.4	197.0	No	5528.7MHz,-63.0dBm	Single burst

Table 12 - FCC Short Pulse Radar (Type 3) Results 80 MHz (Zero Wait Target – 5530MHz, channel 100E)						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Burst Information
1	16	7.0	305.0	Yes	5530.0MHz,-63.0dBm	Single burst
2	17	6.1	287.0	No	5539.8MHz,-63.0dBm	Single burst
3	17	7.1	421.0	Yes	5539.8MHz,-63.0dBm	Single burst
4	17	7.6	231.0	Yes	5552.4MHz,-63.0dBm	Single burst
5	16	9.0	399.0	Yes	5553.5MHz,-63.0dBm	Single burst
6	17	6.6	378.0	Yes	5555.0MHz,-63.0dBm	Single burst
7	18	9.7	439.0	No	5565.0MHz,-63.0dBm	Single burst
8	18	9.4	256.0	No	5565.0MHz,-63.0dBm	Single burst
9	18	6.0	462.0	Yes	5565.0MHz,-63.0dBm	Single burst
10	17	7.4	364.0	No	5568.6MHz,-63.0dBm	Single burst
11	17	10.0	238.0	Yes	5568.6MHz,-63.0dBm	Single burst
12	16	9.0	485.0	No	5491.4MHz,-63.0dBm	Single burst
13	16	6.9	295.0	No	5491.4MHz,-63.0dBm	Single burst
14	18	7.7	244.0	No	5491.4MHz,-63.0dBm	Single burst
15	17	8.0	429.0	Yes	5491.4MHz,-63.0dBm	Single burst
16	17	7.9	344.0	Yes	5492.0MHz,-63.0dBm	Single burst
17	16	8.5	409.0	Yes	5501.6MHz,-63.0dBm	Single burst
18	18	9.0	467.0	Yes	5505.9MHz,-63.0dBm	Single burst
19	17	6.5	242.0	Yes	5512.6MHz,-63.0dBm	Single burst
20	17	6.9	245.0	Yes	5520.6MHz,-63.0dBm	Single burst
21	16	6.5	295.0	Yes	5529.6MHz,-63.0dBm	Single burst
22	16	9.3	316.0	No	5537.6MHz,-63.0dBm	Single burst
23	17	7.3	393.0	No	5537.6MHz,-63.0dBm	Single burst
24	16	6.9	489.0	Yes	5537.6MHz,-63.0dBm	Single burst
25	17	8.5	274.0	Yes	5543.4MHz,-63.0dBm	Single burst
26	17	6.7	331.0	Yes	5551.2MHz,-63.0dBm	Single burst
27	17	8.3	241.0	Yes	5559.9MHz,-63.0dBm	Single burst
28	16	7.0	480.0	Yes	5568.6MHz,-63.0dBm	Single burst
29	17	8.1	406.0	Yes	5491.4MHz,-63.0dBm	Single burst
30	17	6.2	344.0	Yes	5494.4MHz,-63.0dBm	Single burst

Table 13 - FCC Short Pulse Radar (Type 4) Results 80 MHz (Zero Wait Target – 5530MHz, channel 100E)						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Burst Information
1	15	14.9	285.0	Yes	5530.0MHz,-63.0dBm	Single burst
2	13	19.4	370.0	Yes	5540.9MHz,-63.0dBm	Single burst
3	15	18.4	279.0	Yes	5549.9MHz,-63.0dBm	Single burst
4	14	16.6	405.0	No	5559.1MHz,-63.0dBm	Single burst
5	14	19.2	325.0	Yes	5559.1MHz,-63.0dBm	Single burst
6	13	19.6	422.0	No	5568.6MHz,-63.0dBm	Single burst
7	13	15.3	438.0	Yes	5568.6MHz,-63.0dBm	Single burst
8	13	16.5	285.0	Yes	5491.4MHz,-63.0dBm	Single burst
9	16	16.7	307.0	Yes	5493.6MHz,-63.0dBm	Single burst
10	15	14.9	432.0	Yes	5502.8MHz,-63.0dBm	Single burst
11	16	13.2	265.0	Yes	5508.6MHz,-63.0dBm	Single burst
12	12	16.7	440.0	No	5513.3MHz,-63.0dBm	Single burst
13	15	15.0	441.0	Yes	5513.3MHz,-63.0dBm	Single burst
14	15	15.0	354.0	Yes	5521.4MHz,-63.0dBm	Single burst
15	13	18.2	341.0	Yes	5532.5MHz,-63.0dBm	Single burst
16	14	16.4	476.0	Yes	5533.7MHz,-63.0dBm	Single burst
17	15	17.6	301.0	No	5538.2MHz,-63.0dBm	Single burst
18	14	13.7	408.0	Yes	5538.2MHz,-63.0dBm	Single burst
19	15	15.2	306.0	Yes	5541.2MHz,-63.0dBm	Single burst
20	14	13.2	493.0	Yes	5543.1MHz,-63.0dBm	Single burst
21	13	17.8	257.0	Yes	5555.9MHz,-63.0dBm	Single burst
22	16	12.6	326.0	Yes	5567.1MHz,-63.0dBm	Single burst
23	13	12.5	308.0	Yes	5568.6MHz,-63.0dBm	Single burst
24	14	11.8	405.0	No	5491.4MHz,-63.0dBm	Single burst
25	15	14.5	243.0	No	5491.4MHz,-63.0dBm	Single burst
26	13	18.2	429.0	Yes	5491.4MHz,-63.0dBm	Single burst
27	12	19.1	200.0	Yes	5498.6MHz,-63.0dBm	Single burst
28	14	17.1	415.0	Yes	5499.6MHz,-63.0dBm	Single burst
29	12	16.2	436.0	Yes	5505.5MHz,-63.0dBm	Single burst
30	16	14.5	378.0	No	5511.3MHz,-63.0dBm	Single burst

Table 14 - FCC Long Pulse Radar (Type 5) Summary 80 MHz (Zero Wait Target – 5530MHz, channel 100E)		
FCC Long Pulse Radar (Type 5) Trial	Result	Frequency, Level
Trial #1	Detected	5530.0MHz,-63.0dBm
Trial #2	NOT Detected	5530.0MHz,-63.0dBm
Trial #3	Detected	5530.0MHz,-63.0dBm
Trial #4	Detected	5530.0MHz,-63.0dBm
Trial #5	Detected	5530.0MHz,-63.0dBm
Trial #6	Detected	5530.0MHz,-63.0dBm
Trial #7	Detected	5530.0MHz,-63.0dBm
Trial #8	NOT Detected	5530.0MHz,-63.0dBm
Trial #9	Detected	5530.0MHz,-63.0dBm
Trial #10	NOT Detected	5530.0MHz,-63.0dBm
Trial #11	Detected	5493.8MHz,-63.0dBm
Trial #12	Detected	5497.4MHz,-63.0dBm
Trial #13	Detected	5495.4MHz,-63.0dBm
Trial #14	Detected	5493.8MHz,-63.0dBm
Trial #15	Detected	5497.4MHz,-63.0dBm
Trial #16	Detected	5498.6MHz,-63.0dBm
Trial #17	Detected	5496.6MHz,-63.0dBm
Trial #18	Detected	5497.4MHz,-63.0dBm
Trial #19	Detected	5495.4MHz,-63.0dBm
Trial #20	Detected	5495.4MHz,-63.0dBm
Trial #21	NOT Detected	5563.8MHz,-63.0dBm
Trial #22	NOT Detected	5564.6MHz,-63.0dBm
Trial #23	Detected	5565.4MHz,-63.0dBm
Trial #24	Detected	5565.8MHz,-63.0dBm
Trial #25	Detected	5563.8MHz,-63.0dBm
Trial #26	Detected	5563.0MHz,-63.0dBm
Trial #27	Detected	5563.8MHz,-63.0dBm
Trial #28	Detected	5563.0MHz,-63.0dBm
Trial #29	Detected	5562.2MHz,-63.0dBm
Trial #30	Detected	5564.2MHz,-63.0dBm

Table 15 - FCC Long Pulse Radar (Type 5) Trial#1 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	90.1	7	1950.0	-	0.397606
2	1	74.1	7	-	-	1.958355
3	3	88.5	7	1790.0	1023.0	3.584543
4	2	71.2	7	1887.0	-	4.442971
5	3	50.3	7	1626.0	1546.0	5.750060
6	1	92.8	7	-	-	6.230375
7	2	67.3	7	1129.0	-	8.365572
8	1	72.4	7	-	-	8.661931
9	3	54.0	7	1946.0	1823.0	10.215469
10	1	81.9	7	-	-	11.958054

Table 16 - FCC Long Pulse Radar (Type 5) Trial#2 (NOT Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	91.3	19	1396.0	-	0.430942
2	2	61.2	19	1229.0	-	1.491425
3	2	73.4	19	1213.0	-	1.695069
4	2	71.9	19	1404.0	-	2.421937
5	2	89.2	19	1605.0	-	3.275523
6	2	56.5	19	1747.0	-	4.538381
7	1	69.6	19	-	-	4.897957
8	1	73.5	19	-	-	5.930118
9	3	68.8	19	1403.0	1947.0	6.828049
10	2	89.0	19	1223.0	-	7.340582
11	3	90.5	19	1879.0	1087.0	8.727350
12	3	86.1	19	1627.0	1851.0	8.944364
13	2	52.5	19	1111.0	-	9.918794
14	1	54.3	19	-	-	10.677516
15	3	100.0	19	1836.0	1430.0	11.430653

Table 17 - FCC Long Pulse Radar (Type 5) Trial#3 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	64.1	11	1454.0	-	0.226624
2	2	83.5	11	1107.0	-	1.110358
3	1	54.1	11	-	-	2.426974
4	2	75.5	11	1954.0	-	3.593250
5	2	76.7	11	1442.0	-	5.213832
6	3	85.2	11	1663.0	1270.0	6.381654
7	3	86.7	11	1335.0	1907.0	7.561395
8	3	83.0	11	1346.0	1997.0	7.913477
9	2	78.0	11	1721.0	-	9.083692
10	3	76.6	11	1607.0	1665.0	9.867376
11	2	89.1	11	1495.0	-	11.993385

Table 18 - FCC Long Pulse Radar (Type 5) Trial#4 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	1	50.7	16	-	-	1.219343
2	1	67.0	16	-	-	2.761992
3	3	52.4	16	1318.0	1553.0	4.127583
4	3	95.9	16	1391.0	1446.0	5.469275
5	2	62.0	16	1170.0	-	7.194446
6	2	73.5	16	1592.0	-	7.526752
7	1	93.5	16	-	-	10.345932
8	2	74.0	16	1609.0	-	10.890467

Table 19 - FCC Long Pulse Radar (Type 5) Trial#5 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	67.5	13	1436.0	-	0.304516
2	1	72.7	13	-	-	1.492942
3	3	91.5	13	1390.0	1582.0	2.263225
4	2	69.2	13	1518.0	-	2.906000
5	2	81.8	13	1306.0	-	4.196071
6	3	59.0	13	1067.0	1874.0	4.718042
7	2	70.2	13	1756.0	-	5.913063
8	2	56.4	13	1309.0	-	7.277920
9	2	76.9	13	1683.0	-	7.978171
10	3	53.3	13	1042.0	1996.0	8.527044
11	3	70.3	13	1567.0	1057.0	9.651682
12	2	65.0	13	1871.0	-	10.431645
13	1	57.0	13	-	-	11.447334

Table 20 - FCC Long Pulse Radar (Type 5) Trial#6 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	3	77.4	19	1990.0	1420.0	0.635956
2	3	65.8	19	1596.0	1350.0	1.525663
3	3	74.3	19	1956.0	1708.0	2.556027
4	2	93.9	19	1140.0	-	3.814662
5	2	72.1	19	1510.0	-	5.898503
6	2	63.0	19	1836.0	-	6.996646
7	2	91.3	19	1601.0	-	8.320372
8	2	72.5	19	1139.0	-	8.739342
9	3	98.1	19	1211.0	1749.0	10.065995
10	2	58.1	19	1818.0	-	11.993143

Table 21 - FCC Long Pulse Radar (Type 5) Trial#7 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	50.9	8	1322.0	-	0.368287
2	2	94.6	8	1846.0	-	1.993310
3	1	63.3	8	-	-	2.968891
4	3	97.9	8	1863.0	1324.0	3.070313
5	3	82.1	8	1820.0	1598.0	4.790032
6	2	89.0	8	1647.0	-	5.597091
7	2	55.7	8	1407.0	-	6.368449
8	2	76.0	8	1478.0	-	7.028236
9	3	62.9	8	1981.0	1676.0	8.920743
10	2	58.9	8	1421.0	-	9.567339
11	2	63.1	8	1320.0	-	10.378013
12	1	65.7	8	-	-	11.681405

Table 22 - FCC Long Pulse Radar (Type 5) Trial#8 (NOT Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	1	90.5	16	-	-	0.291808
2	2	83.8	16	1340.0	-	2.424813
3	3	54.0	16	1692.0	1008.0	3.222242
4	2	80.4	16	1221.0	-	5.313294
5	2	90.5	16	1932.0	-	6.357117
6	3	74.1	16	1157.0	1541.0	7.029333
7	2	59.2	16	1213.0	-	9.231396
8	1	60.3	16	-	-	9.868591
9	2	60.0	16	1999.0	-	11.331682

Table 23 - FCC Long Pulse Radar (Type 5) Trial#9 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	3	87.6	12	1110.0	1139.0	0.586929
2	2	75.7	12	1784.0	-	0.845627
3	2	70.5	12	1672.0	-	2.066234
4	1	57.1	12	-	-	2.643213
5	2	57.8	12	1051.0	-	3.174294
6	2	85.4	12	1296.0	-	4.262218
7	3	86.5	12	1911.0	1830.0	4.732226
8	2	61.4	12	1162.0	-	5.332817
9	2	79.9	12	1115.0	-	6.698754
10	1	95.0	12	-	-	6.949275
11	3	86.5	12	1685.0	1955.0	7.914249
12	1	71.4	12	-	-	8.693833
13	2	80.2	12	1774.0	-	9.086421
14	3	59.6	12	1718.0	1775.0	10.472215
15	2	89.0	12	1488.0	-	10.565958
16	2	81.2	12	1880.0	-	11.821197

Table 24 - FCC Long Pulse Radar (Type 5) Trial#10 (NOT Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	81.2	18	1287.0	-	1.181237
2	1	56.9	18	-	-	1.596109
3	2	64.0	18	1841.0	-	2.819365
4	2	60.3	18	1399.0	-	5.297208
5	2	79.8	18	1797.0	-	6.121713
6	2	66.0	18	1409.0	-	7.591576
7	2	81.6	18	1646.0	-	8.519346
8	3	75.5	18	1184.0	1600.0	10.391490
9	2	84.8	18	1649.0	-	10.866102

Table 25 - FCC Long Pulse Radar (Type 5) Trial#11 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	3	70.5	6	1325.0	1795.0	0.139916
2	2	68.0	6	1144.0	-	0.959133
3	1	68.7	6	-	-	1.605796
4	2	91.4	6	1150.0	-	2.227399
5	2	94.1	6	1302.0	-	2.651861
6	3	82.3	6	1060.0	1924.0	3.181720
7	1	73.7	6	-	-	4.165455
8	2	82.4	6	1989.0	-	4.990296
9	3	67.2	6	1616.0	1599.0	5.300489
10	3	71.4	6	1318.0	1538.0	5.897427
11	2	53.5	6	1310.0	-	6.904130
12	3	65.2	6	1073.0	1321.0	7.089618
13	3	76.4	6	1179.0	1645.0	7.588764
14	1	97.3	6	-	-	8.330921
15	2	93.3	6	1690.0	-	9.020008
16	2	94.3	6	1449.0	-	9.687040
17	2	84.0	6	1280.0	-	10.420584
18	2	60.7	6	1725.0	-	11.104921
19	3	84.4	6	1521.0	1527.0	11.733963

Table 26 - FCC Long Pulse Radar (Type 5) Trial#12 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	85.1	15	1703.0	-	0.395402
2	2	85.6	15	1700.0	-	0.917402
3	2	64.9	15	1890.0	-	2.137130
4	2	66.4	15	1012.0	-	2.838159
5	2	91.2	15	1215.0	-	3.844589
6	2	86.2	15	1348.0	-	4.060230
7	3	51.6	15	1149.0	1039.0	5.021712
8	3	52.6	15	1235.0	1155.0	5.965549
9	3	83.0	15	1403.0	1437.0	7.034252
10	1	50.3	15	-	-	7.443163
11	1	80.5	15	-	-	8.208905
12	2	66.3	15	1173.0	-	8.969695
13	1	95.0	15	-	-	9.750948
14	2	58.2	15	1077.0	-	10.850304
15	2	97.4	15	1560.0	-	11.824485

Table 27 - FCC Long Pulse Radar (Type 5) Trial#13 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	3	51.5	10	1138.0	1116.0	0.784648
2	1	87.0	10	-	-	2.614049
3	3	95.1	10	1874.0	1368.0	3.430106
4	2	69.1	10	1115.0	-	5.302703
5	2	77.2	10	1828.0	-	6.183198
6	2	87.2	10	1220.0	-	8.393927
7	2	85.7	10	1653.0	-	9.231116
8	3	76.7	10	1914.0	1394.0	10.704685

Table 28 - FCC Long Pulse Radar (Type 5) Trial#14 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	97.9	6	1905.0	-	0.500778
2	3	74.0	6	1137.0	1455.0	1.136680
3	1	81.7	6	-	-	1.658143
4	3	85.4	6	1477.0	1672.0	2.260940
5	1	50.5	6	-	-	2.758635
6	2	60.2	6	1490.0	-	3.493467
7	1	74.8	6	-	-	4.019680
8	3	71.0	6	1830.0	1655.0	4.554977
9	2	77.7	6	1704.0	-	5.541678
10	3	98.5	6	1455.0	1418.0	5.957767
11	2	83.7	6	1785.0	-	6.409739
12	2	58.4	6	1332.0	-	7.258480
13	2	73.2	6	1988.0	-	7.972332
14	1	80.1	6	-	-	8.681125
15	3	85.9	6	1887.0	1875.0	8.948808
16	3	80.5	6	1024.0	1838.0	9.554979
17	2	99.7	6	1464.0	-	10.310765
18	3	79.7	6	1007.0	1869.0	11.069332
19	3	81.4	6	1750.0	1821.0	11.858541

Table 29 - FCC Long Pulse Radar (Type 5) Trial#15 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	1	69.3	15	-	-	0.675429
2	2	79.2	15	1935.0	-	1.583664
3	1	59.8	15	-	-	2.697603
4	2	73.1	15	1350.0	-	3.826235
5	2	68.5	15	1083.0	-	4.694126
6	2	62.1	15	1727.0	-	6.375214
7	2	69.3	15	1275.0	-	6.755991
8	1	74.3	15	-	-	8.025349
9	2	96.0	15	1331.0	-	9.570183
10	2	64.7	15	1801.0	-	10.708766
11	2	76.2	15	1988.0	-	11.682395

Table 30 - FCC Long Pulse Radar (Type 5) Trial#16 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	59.2	18	1555.0	-	0.619888
2	2	92.6	18	1647.0	-	1.587127
3	1	65.4	18	-	-	1.913299
4	2	59.4	18	1942.0	-	3.290725
5	3	68.5	18	1216.0	1837.0	4.206855
6	2	75.6	18	1381.0	-	5.520438
7	2	70.6	18	1459.0	-	6.389932
8	2	63.1	18	1742.0	-	6.664328
9	1	98.1	18	-	-	7.537741
10	3	66.5	18	1349.0	1449.0	8.562207
11	2	77.4	18	1117.0	-	9.385227
12	3	50.6	18	1390.0	1984.0	10.751578
13	2	78.5	18	1796.0	-	11.365025

Table 31 - FCC Long Pulse Radar (Type 5) Trial#17 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	60.6	13	1122.0	-	0.313944
2	2	96.8	13	1102.0	-	1.146474
3	2	67.3	13	1752.0	-	2.141650
4	2	94.7	13	1580.0	-	2.692315
5	2	65.2	13	1654.0	-	3.129761
6	2	53.7	13	1385.0	-	3.873045
7	3	98.7	13	1504.0	1584.0	5.166867
8	2	60.6	13	1485.0	-	5.621678
9	1	97.5	13	-	-	6.672458
10	3	91.8	13	1527.0	1904.0	7.095043
11	1	65.5	13	-	-	7.894792
12	3	82.2	13	1355.0	1457.0	8.940419
13	2	97.2	13	1695.0	-	9.707754
14	3	56.1	13	1814.0	1269.0	10.240393
15	3	91.7	13	1768.0	1341.0	11.225708
16	1	63.5	13	-	-	11.857602

Table 32 - FCC Long Pulse Radar (Type 5) Trial#18 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	3	94.3	15	1659.0	1593.0	0.599537
2	3	99.2	15	1518.0	1410.0	1.596066
3	2	94.1	15	1276.0	-	2.601263
4	2	50.3	15	1672.0	-	2.787192
5	3	84.8	15	1593.0	1853.0	4.318435
6	2	67.9	15	1439.0	-	4.838265
7	2	51.7	15	1795.0	-	5.802433
8	1	63.6	15	-	-	7.363242
9	2	79.3	15	1420.0	-	7.929867
10	2	67.4	15	1043.0	-	8.858342
11	2	65.5	15	1881.0	-	9.543139
12	2	84.8	15	1349.0	-	10.523293
13	1	57.5	15	-	-	11.218758

Table 33 - FCC Long Pulse Radar (Type 5) Trial#19 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	88.2	10	1606.0	-	0.022842
2	1	83.7	10	-	-	1.229591
3	1	90.6	10	-	-	1.397919
4	1	96.6	10	-	-	2.039126
5	2	82.0	10	1325.0	-	2.763031
6	2	79.9	10	1664.0	-	3.198457
7	3	97.1	10	1218.0	1705.0	4.399345
8	2	53.7	10	1467.0	-	4.553729
9	1	96.5	10	-	-	5.374881
10	2	74.0	10	1006.0	-	5.694446
11	2	53.5	10	1960.0	-	6.726072
12	3	98.1	10	1369.0	1731.0	7.005492
13	2	83.7	10	1770.0	-	7.946317
14	1	74.3	10	-	-	8.552071
15	3	59.9	10	1077.0	1650.0	9.240848
16	2	78.2	10	1185.0	-	9.599874
17	2	92.7	10	1251.0	-	10.363394
18	1	87.9	10	-	-	10.810708
19	3	86.9	10	1957.0	1981.0	11.710724

Table 34 - FCC Long Pulse Radar (Type 5) Trial#20 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	79.4	10	1406.0	-	0.402599
2	3	53.1	10	1589.0	1722.0	1.590530
3	2	73.2	10	1416.0	-	2.360748
4	2	51.4	10	1622.0	-	4.095302
5	2	55.6	10	1521.0	-	5.286569
6	2	60.8	10	1762.0	-	6.468892
7	3	89.4	10	1695.0	1165.0	7.235273
8	1	61.3	10	-	-	8.516559
9	3	75.5	10	1686.0	1423.0	9.513279
10	2	87.6	10	1604.0	-	9.911029
11	3	66.1	10	1611.0	1516.0	11.484717

Table 35 - FCC Long Pulse Radar (Type 5) Trial#21 (NOT Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	1	50.7	12	-	-	0.993360
2	2	65.0	12	1674.0	-	1.910934
3	2	83.7	12	1722.0	-	3.839691
4	1	54.0	12	-	-	4.954261
5	2	64.0	12	1856.0	-	5.897158
6	3	51.1	12	1023.0	1470.0	7.836056
7	1	81.5	12	-	-	9.014548
8	2	51.5	12	1769.0	-	10.046706
9	3	54.6	12	1699.0	1309.0	11.768590

Table 36 - FCC Long Pulse Radar (Type 5) Trial#22 (NOT Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	1	93.2	10	-	-	1.339179
2	1	87.7	10	-	-	1.847513
3	1	77.3	10	-	-	4.471317
4	3	75.9	10	1253.0	1611.0	5.232283
5	1	86.0	10	-	-	6.875575
6	2	97.7	10	1363.0	-	8.705449
7	2	98.1	10	1632.0	-	9.638974
8	2	58.0	10	1278.0	-	10.720201

Table 37 - FCC Long Pulse Radar (Type 5) Trial#23 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	81.3	8	1264.0	-	0.616624
2	2	96.7	8	1487.0	-	0.886411
3	2	72.6	8	1104.0	-	2.561554
4	2	91.8	8	1463.0	-	3.201635
5	2	63.2	8	1040.0	-	4.158221
6	3	90.1	8	1461.0	1606.0	4.974115
7	2	70.5	8	1496.0	-	5.721225
8	2	60.3	8	1501.0	-	6.793342
9	1	58.4	8	-	-	7.543141
10	2	51.8	8	1804.0	-	8.446092
11	3	66.0	8	1252.0	1485.0	9.206988
12	2	77.9	8	1822.0	-	10.174070
13	2	54.1	8	1020.0	-	10.541326
14	3	61.7	8	1234.0	1384.0	11.866463

Table 38 - FCC Long Pulse Radar (Type 5) Trial#24 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	73.9	7	1592.0	-	0.344366
2	2	96.2	7	1808.0	-	1.857474
3	2	77.1	7	1917.0	-	3.739267
4	2	52.6	7	1938.0	-	4.631655
5	2	63.5	7	1836.0	-	6.550652
6	2	51.8	7	1930.0	-	7.701554
7	2	90.4	7	1868.0	-	8.308471
8	2	54.1	7	1660.0	-	10.281388
9	2	94.2	7	1631.0	-	11.490914

Table 39 - FCC Long Pulse Radar (Type 5) Trial#25 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	3	90.4	12	1242.0	1639.0	0.282806
2	3	62.0	12	1219.0	1018.0	0.643293
3	1	75.6	12	-	-	1.710421
4	1	65.6	12	-	-	2.024279
5	1	94.8	12	-	-	2.996233
6	1	84.5	12	-	-	3.467873
7	2	54.1	12	1227.0	-	4.074530
8	3	76.2	12	1964.0	1358.0	4.609647
9	1	89.6	12	-	-	5.108312
10	2	60.0	12	1645.0	-	5.791466
11	2	91.5	12	1340.0	-	6.008683
12	2	61.4	12	1095.0	-	6.784077
13	2	87.3	12	1624.0	-	7.575598
14	1	88.3	12	-	-	8.276055
15	1	57.9	12	-	-	8.939491
16	2	80.7	12	1946.0	-	9.143322
17	2	78.1	12	1384.0	-	9.899587
18	2	62.2	12	1904.0	-	10.373487
19	2	83.6	12	1661.0	-	11.326278
20	2	81.3	12	1722.0	-	11.762766

Table 40 - FCC Long Pulse Radar (Type 5) Trial#26 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	3	54.9	14	1901.0	1185.0	1.003497
2	1	71.1	14	-	-	1.878320
3	3	91.7	14	1403.0	1768.0	4.029101
4	1	98.5	14	-	-	5.692039
5	1	66.9	14	-	-	6.361955
6	3	89.9	14	1084.0	1148.0	7.892480
7	2	89.5	14	1733.0	-	9.572070
8	3	59.5	14	1116.0	1355.0	11.909760

Table 41 - FCC Long Pulse Radar (Type 5) Trial#27 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	53.0	12	1652.0	-	0.012619
2	3	82.1	12	1269.0	1679.0	0.972860
3	1	80.0	12	-	-	1.966918
4	3	66.8	12	1303.0	1158.0	2.338774
5	2	73.1	12	1942.0	-	3.212082
6	3	82.1	12	1718.0	1968.0	3.613426
7	2	95.7	12	1626.0	-	4.375977
8	1	55.7	12	-	-	5.387714
9	3	87.1	12	1681.0	1270.0	5.723667
10	2	88.3	12	1777.0	-	6.771295
11	2	56.4	12	1784.0	-	7.143581
12	3	55.6	12	1788.0	1964.0	7.783610
13	1	72.6	12	-	-	8.949135
14	1	95.1	12	-	-	9.349572
15	3	62.2	12	1356.0	1870.0	9.884683
16	3	52.6	12	1110.0	1884.0	10.761271
17	2	62.6	12	1876.0	-	11.740248

Table 42 - FCC Long Pulse Radar (Type 5) Trial#28 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	59.9	14	1260.0	-	0.021249
2	2	78.3	14	1309.0	-	1.349925
3	1	58.2	14	-	-	1.538520
4	3	57.5	14	1744.0	1206.0	2.896864
5	2	99.0	14	1769.0	-	3.148057
6	2	71.3	14	1155.0	-	4.233684
7	3	93.3	14	1324.0	1045.0	4.826174
8	3	60.8	14	1167.0	1506.0	5.383896
9	1	83.8	14	-	-	6.104123
10	1	96.8	14	-	-	6.790394
11	1	62.0	14	-	-	7.797447
12	1	81.4	14	-	-	8.328872
13	2	91.2	14	1957.0	-	9.600153
14	1	90.0	14	-	-	10.194474
15	2	78.5	14	1892.0	-	11.066085
16	3	60.2	14	1061.0	1278.0	11.918823

Table 43 - FCC Long Pulse Radar (Type 5) Trial#29 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	54.0	16	1449.0	-	0.391141
2	1	82.5	16	-	-	1.549431
3	2	94.1	16	2000.0	-	1.765507
4	2	89.9	16	1489.0	-	3.402615
5	3	83.7	16	1206.0	1222.0	3.737828
6	2	57.6	16	1253.0	-	4.912635
7	2	67.7	16	1533.0	-	5.832925
8	2	95.1	16	1573.0	-	6.583802
9	1	60.0	16	-	-	7.563652
10	1	73.8	16	-	-	8.023077
11	1	66.5	16	-	-	8.633651
12	2	53.5	16	1454.0	-	9.760327
13	1	78.4	16	-	-	10.928111
14	2	74.3	16	1115.0	-	11.175830

Table 44 - FCC Long Pulse Radar (Type 5) Trial#30 (Detected) 80 MHz (Zero Wait Target – 5530MHz, channel 100E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	69.6	11	1473.0	-	0.409998
2	1	55.2	11	-	-	1.435770
3	3	56.9	11	1288.0	1484.0	2.585677
4	3	51.0	11	1894.0	1579.0	2.971499
5	1	79.3	11	-	-	3.976492
6	3	65.6	11	1278.0	1018.0	4.828865
7	3	63.7	11	1111.0	1725.0	5.927519
8	2	72.1	11	1519.0	-	6.590339
9	3	71.5	11	1346.0	1422.0	7.717971
10	2	75.7	11	1562.0	-	9.070920
11	3	95.3	11	1949.0	1292.0	9.973777
12	3	76.2	11	1265.0	1907.0	10.847442
13	3	94.2	11	1304.0	1241.0	11.198005

Table 45 - FCC frequency hopping radar (Type 6) Results 80 MHz (Zero Wait Target – 5530MHz, channel 100E)						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Hopping Sequence
1	9	1.0	333.0	Yes	5530.0MHz, -63.0dBm	Hop sequence: 5712, 5651, 5550, 5529, 5404, 5265, 5506, 5502, 5559, 5485, 5608, 5357, 5498, 5704, 5261, 5533, 5524, 5492, 5495, 5530, 5311, 5668, 5456, 5616, 5572, 5392, 5445, 5624, 5424, 5640, 5477, 5669, 5326, 5279, 5290, 5284, 5539, 5629, 5511, 5343, 5671, 5641, 5686, 5645, 5719, 5425, 5302, 5407, 5398, 5560, 5413, 5519, 5458, 5713, 5344, 5427, 5689, 5434, 5391, 5303, 5387, 5439, 5322, 5418, 5329, 5422, 5269, 5252, 5525, 5372, 5532, 5332, 5300, 5523, 5537, 5633, 5431, 5517, 5707, 5516, 5285, 5281, 5448, 5507, 5715, 5687, 5468, 5324, 5349, 5714, 5701, 5438, 5603, 5270, 5600, 5268, 5435, 5482, 5447, 5361 (22 hits)
2	9	1.0	333.0	Yes	5534.4MHz, -63.0dBm	Hop sequence: 5322, 5668, 5451, 5647, 5633, 5304, 5287, 5421, 5277, 5395, 5458, 5346, 5260, 5284, 5464, 5385, 5418, 5608, 5272, 5313, 5387, 5615, 5496, 5394, 5551, 5460, 5568, 5696, 5366, 5662, 5470, 5611, 5625, 5698, 5550, 5339, 5603, 5490, 5670, 5358, 5513, 5422, 5493, 5285, 5674, 5465, 5294, 5269, 5448, 5602, 5352, 5725, 5538, 5592, 5290, 5463, 5521, 5433, 5338, 5363, 5576, 5679, 5682, 5289, 5359, 5324, 5506, 5473, 5660, 5380, 5453, 5648, 5250, 5492, 5627, 5605, 5545, 5469, 5430, 5581, 5489, 5343, 5278, 5293, 5374, 5262, 5563, 5312, 5438, 5618, 5281, 5623, 5622, 5347, 5409, 5535, 5449, 5646, 5649, 5292 (13 hits)
3	9	1.0	333.0	Yes	5543.4MHz, -63.0dBm	Hop sequence: 5594, 5382, 5700, 5408, 5448, 5591, 5311, 5438, 5308, 5253, 5537, 5577, 5274, 5447, 5378, 5314, 5631, 5603, 5588, 5541, 5283, 5464, 5547, 5725, 5518, 5661, 5590, 5360, 5416, 5587, 5576, 5711, 5469, 5697, 5717, 5565, 5615, 5471, 5496, 5443, 5457, 5573, 5321, 5330, 5265, 5676, 5645, 5531, 5256, 5381, 5259, 5329, 5568, 5475, 5258, 5334, 5348, 5345, 5601, 5502, 5414, 5675, 5324, 5380, 5383, 5415, 5605, 5278, 5501, 5477, 5395, 5318, 5422, 5371, 5473, 5425, 5722, 5515, 5584, 5257, 5651, 5266, 5340, 5694, 5388, 5648, 5286, 5556, 5561, 5410, 5680, 5557, 5596, 5384, 5664, 5468, 5516, 5555, 5667, 5362 (16 hits)
4	9	1.0	333.0	Yes	5546.4MHz, -63.0dBm	Hop sequence: 5707, 5586, 5603, 5629, 5542, 5493, 5618, 5533, 5600, 5553, 5482, 5649, 5451, 5389, 5566, 5356, 5581, 5631, 5385, 5699, 5257, 5676, 5312, 5362, 5630, 5555, 5360, 5329, 5611, 5412, 5266, 5351, 5334, 5718, 5472, 5653, 5471, 5359, 5427, 5431, 5557, 5411, 5605, 5477, 5524, 5446, 5478, 5455, 5342, 5598, 5634, 5414, 5502, 5491, 5515, 5627, 5684, 5500, 5668, 5302, 5345, 5716, 5480, 5341, 5495, 5670, 5454, 5725, 5518, 5449, 5258, 5643, 5599, 5580, 5479, 5521, 5340, 5344, 5299, 5677, 5349, 5264, 5592, 5641, 5614, 5704, 5434, 5577, 5616, 5696, 5309, 5462, 5575, 5288, 5363, 5470, 5506, 5336, 5452, 5489 (15 hits)

Table 45 - FCC frequency hopping radar (Type 6) Results 80 MHz (Zero Wait Target – 5530MHz, channel 100E)						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Hopping Sequence
5	9	1.0	333.0	Yes	5556.9MHz, -63.0dBm	Hop sequence: 5445, 5473, 5723, 5380, 5649, 5714, 5504, 5456, 5541, 5377, 5298, 5460, 5457, 5641, 5617, 5256, 5715, 5499, 5411, 5403, 5629, 5660, 5574, 5685, 5595, 5561, 5558, 5265, 5581, 5721, 5394, 5583, 5443, 5493, 5665, 5335, 5338, 5648, 5474, 5684, 5725, 5569, 5270, 5295, 5368, 5339, 5388, 5521, 5263, 5676, 5442, 5448, 5275, 5477, 5551, 5712, 5512, 5614, 5597, 5428, 5695, 5672, 5627, 5509, 5267, 5650, 5655, 5326, 5487, 5657, 5717, 5402, 5319, 5690, 5613, 5364, 5458, 5281, 5252, 5537, 5525, 5692, 5447, 5342, 5303, 5282, 5483, 5258, 5362, 5590, 5344, 5300, 5415, 5424, 5292, 5704, 5709, 5533, 5701, 5434 (13 hits)
6	9	1.0	333.0	Yes	5567.8MHz, -63.0dBm	Hop sequence: 5458, 5589, 5694, 5387, 5533, 5603, 5527, 5645, 5596, 5315, 5476, 5594, 5312, 5465, 5561, 5367, 5696, 5426, 5417, 5268, 5263, 5652, 5577, 5394, 5602, 5605, 5376, 5633, 5297, 5356, 5273, 5618, 5637, 5702, 5379, 5722, 5586, 5532, 5267, 5423, 5363, 5554, 5262, 5490, 5523, 5339, 5498, 5522, 5626, 5331, 5659, 5368, 5448, 5640, 5550, 5436, 5256, 5313, 5365, 5674, 5576, 5535, 5720, 5410, 5657, 5408, 5409, 5715, 5494, 5382, 5565, 5281, 5619, 5285, 5670, 5581, 5599, 5488, 5473, 5531, 5302, 5557, 5518, 5284, 5430, 5482, 5592, 5335, 5525, 5328, 5528, 5706, 5570, 5719, 5506, 5505, 5537, 5467, 5420, 5509 (21 hits)
7	9	1.0	333.0	Yes	5568.6MHz, -63.0dBm	Hop sequence: 5433, 5336, 5609, 5473, 5458, 5680, 5707, 5611, 5551, 5406, 5388, 5705, 5377, 5277, 5587, 5673, 5704, 5317, 5561, 5407, 5666, 5492, 5502, 5347, 5353, 5555, 5429, 5307, 5355, 5280, 5290, 5620, 5376, 5424, 5726, 5697, 5623, 5380, 5583, 5387, 5500, 5423, 5414, 5334, 5266, 5440, 5401, 5460, 5489, 5571, 5480, 5496, 5676, 5528, 5608, 5390, 5362, 5517, 5493, 5545, 5627, 5449, 5420, 5448, 5263, 5350, 5337, 5515, 5450, 5510, 5658, 5629, 5638, 5340, 5357, 5659, 5662, 5650, 5712, 5447, 5713, 5656, 5541, 5354, 5302, 5285, 5344, 5436, 5434, 5520, 5279, 5522, 5430, 5348, 5681, 5572, 5402, 5351, 5404, 5341 (16 hits)
8	9	1.0	333.0	Yes	5491.4MHz, -63.0dBm	Hop sequence: 5295, 5453, 5273, 5648, 5381, 5489, 5717, 5439, 5571, 5272, 5377, 5621, 5593, 5636, 5425, 5543, 5462, 5356, 5493, 5251, 5470, 5498, 5264, 5634, 5492, 5563, 5391, 5652, 5488, 5647, 5676, 5324, 5481, 5484, 5608, 5325, 5413, 5672, 5417, 5435, 5654, 5555, 5446, 5274, 5549, 5352, 5431, 5566, 5401, 5433, 5542, 5596, 5651, 5353, 5691, 5560, 5711, 5452, 5422, 5640, 5397, 5427, 5629, 5450, 5658, 5457, 5318, 5350, 5511, 5699, 5267, 5284, 5718, 5714, 5306, 5556, 5577, 5531, 5412, 5405, 5255, 5429, 5713, 5616, 5447, 5291, 5690, 5258, 5611, 5522, 5551, 5602, 5339, 5573, 5606, 5414, 5448, 5612, 5330, 5297 (15 hits)

Table 45 - FCC frequency hopping radar (Type 6) Results 80 MHz (Zero Wait Target – 5530MHz, channel 100E)						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Hopping Sequence
9	9	1.0	333.0	Yes	5493.7MHz, -63.0dBm	Hop sequence: 5350, 5340, 5266, 5544, 5358, 5385, 5344, 5303, 5557, 5509, 5294, 5426, 5576, 5441, 5504, 5590, 5475, 5257, 5434, 5304, 5349, 5499, 5458, 5579, 5603, 5456, 5305, 5628, 5634, 5286, 5352, 5648, 5467, 5588, 5515, 5382, 5418, 5258, 5489, 5653, 5407, 5485, 5601, 5718, 5364, 5685, 5723, 5468, 5516, 5655, 5311, 5614, 5360, 5686, 5565, 5558, 5591, 5445, 5376, 5440, 5513, 5253, 5330, 5688, 5574, 5507, 5261, 5511, 5645, 5689, 5498, 5472, 5512, 5342, 5581, 5639, 5338, 5476, 5367, 5259, 5300, 5704, 5508, 5546, 5427, 5398, 5563, 5278, 5322, 5347, 5453, 5298, 5559, 5691, 5378, 5368, 5497, 5582, 5462, 5265 (19 hits)
10	9	1.0	333.0	Yes	5498.1MHz, -63.0dBm	Hop sequence: 5694, 5631, 5325, 5263, 5649, 5377, 5524, 5308, 5337, 5708, 5504, 5411, 5682, 5496, 5316, 5637, 5545, 5403, 5429, 5521, 5558, 5627, 5569, 5465, 5275, 5559, 5448, 5534, 5315, 5461, 5490, 5286, 5399, 5574, 5333, 5457, 5351, 5450, 5552, 5604, 5564, 5381, 5329, 5563, 5342, 5456, 5646, 5473, 5608, 5345, 5680, 5447, 5663, 5281, 5454, 5313, 5395, 5517, 5355, 5256, 5437, 5290, 5618, 5626, 5579, 5394, 5384, 5314, 5298, 5367, 5686, 5532, 5421, 5639, 5528, 5251, 5681, 5571, 5692, 5659, 5590, 5721, 5287, 5530, 5656, 5376, 5641, 5584, 5306, 5520, 5362, 5267, 5605, 5668, 5540, 5519, 5609, 5358, 5516, 5691 (19 hits)
11	9	1.0	333.0	Yes	5503.7MHz, -63.0dBm	Hop sequence: 5579, 5604, 5285, 5561, 5480, 5406, 5355, 5457, 5717, 5288, 5504, 5334, 5306, 5252, 5543, 5291, 5528, 5317, 5513, 5341, 5326, 5574, 5436, 5593, 5278, 5489, 5628, 5486, 5555, 5546, 5332, 5712, 5719, 5380, 5567, 5522, 5357, 5562, 5478, 5550, 5498, 5682, 5399, 5518, 5286, 5493, 5508, 5617, 5680, 5676, 5586, 5679, 5570, 5412, 5393, 5605, 5675, 5721, 5313, 5660, 5401, 5510, 5651, 5610, 5284, 5274, 5349, 5293, 5627, 5583, 5329, 5410, 5688, 5260, 5554, 5483, 5632, 5363, 5312, 5280, 5704, 5264, 5500, 5547, 5619, 5333, 5342, 5482, 5665, 5460, 5587, 5340, 5270, 5487, 5425, 5300, 5346, 5713, 5295, 5578 (19 hits)
12	9	1.0	333.0	Yes	5512.8MHz, -63.0dBm	Hop sequence: 5573, 5251, 5384, 5721, 5376, 5497, 5416, 5294, 5709, 5311, 5643, 5378, 5383, 5321, 5526, 5280, 5298, 5458, 5420, 5271, 5599, 5722, 5257, 5379, 5569, 5638, 5457, 5696, 5665, 5308, 5531, 5385, 5669, 5552, 5658, 5689, 5438, 5336, 5327, 5441, 5400, 5417, 5427, 5483, 5489, 5515, 5363, 5261, 5654, 5349, 5718, 5684, 5381, 5375, 5675, 5361, 5694, 5305, 5471, 5506, 5303, 5680, 5454, 5343, 5627, 5281, 5297, 5514, 5421, 5435, 5270, 5398, 5720, 5494, 5521, 5619, 5342, 5678, 5583, 5597, 5505, 5262, 5405, 5576, 5501, 5556, 5659, 5725, 5657, 5432, 5609, 5301, 5377, 5644, 5671, 5444, 5541, 5555, 5558, 5571 (15 hits)

Table 45 - FCC frequency hopping radar (Type 6) Results 80 MHz (Zero Wait Target – 5530MHz, channel 100E)						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Hopping Sequence
13	9	1.0	333.0	Yes	5522.1MHz, -63.0dBm	Hop sequence: 5523, 5337, 5641, 5534, 5361, 5335, 5633, 5607, 5535, 5518, 5650, 5653, 5685, 5610, 5349, 5675, 5611, 5253, 5469, 5431, 5452, 5530, 5718, 5683, 5450, 5686, 5420, 5339, 5358, 5642, 5656, 5468, 5616, 5389, 5315, 5555, 5342, 5673, 5463, 5441, 5651, 5717, 5471, 5255, 5385, 5500, 5376, 5464, 5341, 5614, 5303, 5280, 5355, 5328, 5439, 5348, 5692, 5331, 5604, 5586, 5298, 5273, 5694, 5379, 5422, 5719, 5507, 5381, 5307, 5696, 5543, 5394, 5372, 5585, 5354, 5665, 5545, 5336, 5664, 5364, 5359, 5672, 5713, 5493, 5300, 5519, 5465, 5401, 5501, 5677, 5583, 5449, 5602, 5276, 5410, 5496, 5640, 5568, 5502, 5551 (17 hits)
14	9	1.0	333.0	Yes	5530.8MHz, -63.0dBm	Hop sequence: 5633, 5283, 5317, 5307, 5536, 5657, 5643, 5552, 5269, 5293, 5539, 5373, 5622, 5447, 5518, 5586, 5251, 5262, 5431, 5449, 5298, 5468, 5613, 5426, 5604, 5702, 5429, 5325, 5597, 5600, 5665, 5603, 5276, 5723, 5506, 5383, 5409, 5289, 5474, 5252, 5430, 5650, 5359, 5543, 5626, 5326, 5617, 5602, 5638, 5485, 5380, 5697, 5645, 5411, 5523, 5386, 5724, 5698, 5275, 5663, 5482, 5321, 5535, 5319, 5271, 5472, 5647, 5479, 5331, 5576, 5467, 5441, 5420, 5425, 5453, 5492, 5495, 5606, 5457, 5491, 5416, 5257, 5379, 5537, 5374, 5488, 5437, 5677, 5330, 5696, 5332, 5344, 5691, 5629, 5499, 5559, 5294, 5682, 5712, 5396 (13 hits)
15	9	1.0	333.0	Yes	5543.6MHz, -63.0dBm	Hop sequence: 5396, 5355, 5498, 5268, 5550, 5573, 5501, 5446, 5351, 5378, 5674, 5444, 5594, 5601, 5605, 5297, 5682, 5620, 5646, 5480, 5505, 5610, 5670, 5262, 5477, 5706, 5686, 5403, 5313, 5711, 5400, 5667, 5360, 5469, 5323, 5464, 5299, 5324, 5361, 5566, 5272, 5427, 5356, 5309, 5643, 5341, 5526, 5289, 5472, 5664, 5266, 5350, 5381, 5478, 5538, 5671, 5290, 5644, 5556, 5597, 5456, 5408, 5326, 5292, 5285, 5663, 5548, 5707, 5560, 5584, 5724, 5691, 5465, 5291, 5371, 5394, 5438, 5496, 5699, 5263, 5276, 5690, 5271, 5349, 5342, 5366, 5260, 5688, 5689, 5527, 5300, 5352, 5377, 5332, 5567, 5363, 5418, 5537, 5627, 5535 (15 hits)
16	9	1.0	333.0	Yes	5547.1MHz, -63.0dBm	Hop sequence: 5642, 5514, 5704, 5342, 5324, 5264, 5282, 5471, 5262, 5340, 5434, 5620, 5475, 5294, 5386, 5563, 5696, 5499, 5427, 5350, 5538, 5440, 5574, 5512, 5580, 5639, 5705, 5281, 5703, 5680, 5410, 5509, 5338, 5287, 5391, 5588, 5470, 5402, 5530, 5688, 5641, 5644, 5451, 5353, 5480, 5417, 5667, 5293, 5597, 5422, 5626, 5643, 5372, 5726, 5616, 5673, 5463, 5493, 5482, 5612, 5685, 5396, 5497, 5398, 5648, 5601, 5689, 5441, 5306, 5373, 5368, 5521, 5687, 5421, 5457, 5524, 5323, 5460, 5279, 5297, 5596, 5446, 5459, 5289, 5506, 5714, 5675, 5692, 5725, 5445, 5388, 5331, 5492, 5384, 5389, 5327, 5370, 5526, 5672, 5558 (15 hits)

Table 45 - FCC frequency hopping radar (Type 6) Results 80 MHz (Zero Wait Target – 5530MHz, channel 100E)						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Hopping Sequence
17	9	1.0	333.0	Yes	5555.5MHz, -63.0dBm	Hop sequence: 5554, 5428, 5306, 5608, 5515, 5632, 5455, 5364, 5330, 5530, 5588, 5644, 5401, 5366, 5678, 5349, 5435, 5526, 5409, 5406, 5702, 5545, 5582, 5473, 5291, 5402, 5391, 5382, 5506, 5289, 5381, 5280, 5584, 5407, 5439, 5718, 5724, 5604, 5336, 5397, 5494, 5705, 5337, 5432, 5271, 5688, 5659, 5640, 5580, 5334, 5284, 5259, 5504, 5714, 5471, 5719, 5691, 5275, 5375, 5586, 5461, 5544, 5693, 5645, 5514, 5387, 5320, 5288, 5327, 5522, 5488, 5300, 5339, 5359, 5270, 5652, 5424, 5593, 5624, 5399, 5490, 5516, 5525, 5298, 5308, 5662, 5436, 5433, 5547, 5404, 5555, 5365, 5596, 5278, 5477, 5507, 5699, 5476, 5524, 5292 (17 hits)
18	9	1.0	333.0	Yes	5568.3MHz, -63.0dBm	Hop sequence: 5409, 5504, 5483, 5646, 5502, 5345, 5255, 5340, 5477, 5584, 5531, 5445, 5600, 5712, 5696, 5414, 5594, 5438, 5315, 5695, 5704, 5413, 5573, 5297, 5568, 5368, 5701, 5562, 5251, 5622, 5326, 5316, 5447, 5723, 5435, 5626, 5334, 5520, 5524, 5349, 5339, 5576, 5424, 5590, 5638, 5285, 5387, 5350, 5582, 5348, 5639, 5454, 5299, 5623, 5519, 5476, 5606, 5262, 5459, 5266, 5686, 5528, 5385, 5492, 5679, 5593, 5408, 5683, 5284, 5589, 5489, 5338, 5380, 5668, 5526, 5400, 5382, 5515, 5651, 5616, 5620, 5506, 5358, 5268, 5433, 5468, 5363, 5376, 5396, 5603, 5719, 5257, 5423, 5410, 5292, 5402, 5650, 5508, 5518, 5418 (15 hits)
19	9	1.0	333.0	Yes	5568.6MHz, -63.0dBm	Hop sequence: 5629, 5432, 5281, 5430, 5345, 5714, 5426, 5700, 5324, 5392, 5352, 5711, 5370, 5623, 5283, 5556, 5313, 5560, 5716, 5316, 5461, 5330, 5616, 5414, 5595, 5264, 5252, 5666, 5488, 5592, 5275, 5266, 5685, 5411, 5723, 5540, 5514, 5699, 5634, 5531, 5589, 5621, 5618, 5400, 5384, 5640, 5385, 5529, 5670, 5497, 5260, 5355, 5525, 5609, 5544, 5353, 5389, 5429, 5541, 5350, 5564, 5261, 5425, 5536, 5509, 5462, 5631, 5495, 5555, 5558, 5473, 5377, 5583, 5651, 5659, 5374, 5665, 5545, 5599, 5722, 5578, 5553, 5587, 5453, 5662, 5262, 5695, 5365, 5604, 5387, 5569, 5507, 5329, 5649, 5530, 5299, 5667, 5658, 5653, 5526 (21 hits)
20	9	1.0	333.0	Yes	5491.4MHz, -63.0dBm	Hop sequence: 5558, 5705, 5352, 5324, 5497, 5562, 5542, 5252, 5423, 5633, 5680, 5644, 5480, 5595, 5499, 5274, 5671, 5472, 5597, 5574, 5392, 5330, 5495, 5469, 5362, 5687, 5568, 5718, 5432, 5421, 5409, 5652, 5573, 5650, 5494, 5575, 5471, 5683, 5604, 5598, 5656, 5280, 5670, 5592, 5606, 5293, 5357, 5275, 5714, 5289, 5723, 5571, 5518, 5528, 5481, 5555, 5424, 5371, 5335, 5637, 5509, 5319, 5453, 5346, 5411, 5484, 5504, 5693, 5725, 5440, 5648, 5536, 5516, 5427, 5617, 5403, 5345, 5508, 5713, 5334, 5456, 5588, 5492, 5622, 5273, 5647, 5351, 5393, 5591, 5436, 5435, 5546, 5253, 5715, 5646, 5631, 5348, 5712, 5610, 5578 (18 hits)

Table 45 - FCC frequency hopping radar (Type 6) Results 80 MHz (Zero Wait Target – 5530MHz, channel 100E)						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Hopping Sequence
21	9	1.0	333.0	Yes	5496.2MHz, -63.0dBm	Hop sequence: 5550, 5625, 5706, 5418, 5471, 5393, 5279, 5647, 5598, 5441, 5549, 5326, 5537, 5620, 5463, 5287, 5570, 5565, 5300, 5643, 5686, 5522, 5280, 5495, 5651, 5676, 5670, 5557, 5514, 5286, 5274, 5352, 5543, 5509, 5574, 5534, 5545, 5627, 5372, 5554, 5501, 5581, 5319, 5593, 5252, 5515, 5407, 5259, 5633, 5712, 5289, 5466, 5498, 5388, 5626, 5546, 5368, 5592, 5346, 5414, 5516, 5718, 5373, 5613, 5692, 5621, 5424, 5656, 5595, 5665, 5685, 5402, 5306, 5583, 5486, 5723, 5375, 5294, 5374, 5540, 5658, 5313, 5386, 5271, 5700, 5416, 5277, 5397, 5458, 5394, 5520, 5654, 5292, 5266, 5478, 5494, 5340, 5361, 5561, 5702 (22 hits)
22	9	1.0	333.0	Yes	5508.2MHz, -63.0dBm	Hop sequence: 5541, 5458, 5530, 5377, 5337, 5492, 5489, 5322, 5535, 5672, 5673, 5466, 5581, 5445, 5604, 5628, 5654, 5283, 5601, 5516, 5527, 5722, 5273, 5272, 5284, 5306, 5671, 5515, 5538, 5598, 5340, 5403, 5503, 5623, 5697, 5397, 5626, 5382, 5343, 5556, 5451, 5637, 5571, 5620, 5542, 5367, 5259, 5614, 5336, 5657, 5256, 5532, 5471, 5279, 5611, 5718, 5376, 5710, 5536, 5468, 5641, 5328, 5645, 5681, 5617, 5683, 5299, 5416, 5421, 5590, 5550, 5570, 5618, 5338, 5639, 5505, 5332, 5661, 5567, 5573, 5612, 5267, 5298, 5605, 5643, 5522, 5565, 5582, 5724, 5602, 5315, 5401, 5439, 5548, 5686, 5600, 5559, 5381, 5379, 5534 (21 hits)
23	9	1.0	333.0	Yes	5513.3MHz, -63.0dBm	Hop sequence: 5304, 5445, 5439, 5464, 5567, 5551, 5435, 5481, 5549, 5434, 5387, 5416, 5298, 5574, 5550, 5588, 5397, 5340, 5474, 5306, 5478, 5637, 5338, 5605, 5258, 5381, 5566, 5714, 5427, 5640, 5484, 5655, 5432, 5677, 5455, 5586, 5543, 5502, 5618, 5499, 5448, 5628, 5373, 5514, 5451, 5617, 5509, 5720, 5346, 5626, 5263, 5597, 5302, 5426, 5267, 5537, 5540, 5401, 5519, 5689, 5414, 5480, 5449, 5596, 5476, 5299, 5294, 5658, 5339, 5532, 5318, 5290, 5501, 5308, 5391, 5661, 5621, 5341, 5356, 5687, 5653, 5686, 5515, 5332, 5666, 5462, 5348, 5539, 5520, 5274, 5600, 5250, 5648, 5508, 5675, 5415, 5718, 5403, 5542, 5413 (20 hits)
24	9	1.0	333.0	Yes	5519.9MHz, -63.0dBm	Hop sequence: 5569, 5493, 5644, 5324, 5477, 5278, 5410, 5658, 5676, 5634, 5604, 5722, 5427, 5345, 5597, 5555, 5520, 5290, 5383, 5472, 5664, 5419, 5463, 5279, 5420, 5460, 5656, 5685, 5713, 5721, 5442, 5540, 5629, 5283, 5677, 5281, 5683, 5505, 5678, 5626, 5434, 5392, 5481, 5601, 5336, 5675, 5583, 5519, 5288, 5605, 5307, 5377, 5482, 5723, 5275, 5298, 5287, 5396, 5716, 5660, 5572, 5695, 5382, 5665, 5613, 5415, 5409, 5514, 5446, 5670, 5258, 5333, 5551, 5529, 5596, 5257, 5606, 5296, 5291, 5461, 5509, 5343, 5349, 5694, 5497, 5492, 5295, 5465, 5269, 5437, 5679, 5708, 5498, 5636, 5507, 5516, 5725, 5459, 5508, 5574 (16 hits)

Table 45 - FCC frequency hopping radar (Type 6) Results 80 MHz (Zero Wait Target – 5530MHz, channel 100E)						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Hopping Sequence
25	9	1.0	333.0	Yes	5529.7MHz, -63.0dBm	Hop sequence: 5478, 5588, 5586, 5574, 5373, 5477, 5469, 5348, 5446, 5302, 5546, 5542, 5441, 5593, 5345, 5411, 5550, 5584, 5340, 5285, 5637, 5691, 5710, 5638, 5436, 5589, 5450, 5647, 5261, 5663, 5506, 5567, 5399, 5431, 5512, 5368, 5642, 5573, 5629, 5700, 5498, 5273, 5651, 5594, 5571, 5561, 5361, 5676, 5353, 5648, 5709, 5293, 5413, 5409, 5343, 5362, 5658, 5479, 5504, 5428, 5484, 5275, 5276, 5393, 5322, 5670, 5626, 5258, 5306, 5618, 5591, 5686, 5466, 5290, 5264, 5289, 5388, 5416, 5452, 5575, 5444, 5687, 5395, 5621, 5664, 5325, 5480, 5253, 5274, 5485, 5678, 5488, 5305, 5457, 5704, 5454, 5719, 5250, 5378, 5694 (9 hits)
26	9	1.0	333.0	Yes	5536.1MHz, -63.0dBm	Hop sequence: 5574, 5485, 5477, 5272, 5412, 5293, 5376, 5707, 5613, 5560, 5364, 5414, 5712, 5561, 5372, 5251, 5553, 5336, 5438, 5635, 5622, 5558, 5584, 5555, 5516, 5665, 5547, 5515, 5368, 5276, 5723, 5287, 5263, 5391, 5664, 5679, 5626, 5254, 5355, 5296, 5514, 5433, 5489, 5407, 5292, 5596, 5427, 5720, 5541, 5284, 5690, 5501, 5383, 5578, 5562, 5419, 5397, 5543, 5321, 5568, 5706, 5439, 5458, 5266, 5382, 5302, 5361, 5700, 5314, 5482, 5488, 5510, 5403, 5456, 5429, 5575, 5452, 5638, 5612, 5681, 5645, 5363, 5544, 5614, 5356, 5719, 5549, 5341, 5565, 5705, 5294, 5462, 5697, 5660, 5390, 5343, 5474, 5598, 5472, 5576 (18 hits)
27	9	1.0	333.0	Yes	5537.4MHz, -63.0dBm	Hop sequence: 5447, 5521, 5649, 5512, 5330, 5467, 5444, 5254, 5412, 5679, 5410, 5676, 5286, 5662, 5292, 5596, 5466, 5256, 5386, 5586, 5456, 5611, 5443, 5620, 5478, 5435, 5665, 5381, 5715, 5508, 5483, 5500, 5297, 5570, 5677, 5673, 5635, 5294, 5524, 5554, 5589, 5608, 5520, 5370, 5382, 5278, 5371, 5378, 5433, 5353, 5511, 5376, 5502, 5688, 5706, 5275, 5428, 5705, 5600, 5293, 5490, 5642, 5617, 5472, 5630, 5631, 5375, 5532, 5645, 5314, 5697, 5564, 5339, 5394, 5274, 5563, 5287, 5295, 5361, 5346, 5335, 5558, 5271, 5547, 5431, 5571, 5562, 5399, 5422, 5385, 5449, 5599, 5440, 5714, 5296, 5587, 5666, 5577, 5342, 5318 (15 hits)
28	9	1.0	333.0	Yes	5538.5MHz, -63.0dBm	Hop sequence: 5266, 5541, 5355, 5407, 5487, 5376, 5678, 5588, 5568, 5544, 5380, 5491, 5391, 5257, 5688, 5724, 5704, 5476, 5632, 5317, 5301, 5717, 5365, 5394, 5669, 5658, 5425, 5565, 5323, 5455, 5665, 5650, 5357, 5457, 5320, 5535, 5595, 5566, 5530, 5288, 5586, 5719, 5587, 5340, 5597, 5251, 5467, 5706, 5335, 5506, 5275, 5347, 5652, 5292, 5339, 5440, 5608, 5522, 5580, 5360, 5421, 5660, 5680, 5490, 5501, 5456, 5720, 5707, 5531, 5402, 5322, 5708, 5338, 5358, 5478, 5495, 5583, 5649, 5627, 5253, 5423, 5382, 5492, 5709, 5307, 5631, 5695, 5271, 5449, 5528, 5655, 5343, 5381, 5493, 5345, 5409, 5614, 5264, 5626, 5723 (15 hits)

Table 45 - FCC frequency hopping radar (Type 6) Results 80 MHz (Zero Wait Target – 5530MHz, channel 100E)						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Hopping Sequence
29	9	1.0	333.0	Yes	5543.6MHz, -63.0dBm	Hop sequence: 5386, 5509, 5353, 5659, 5703, 5478, 5634, 5517, 5434, 5617, 5706, 5453, 5684, 5580, 5375, 5419, 5579, 5668, 5397, 5598, 5531, 5611, 5391, 5305, 5582, 5656, 5396, 5454, 5356, 5316, 5581, 5330, 5363, 5505, 5494, 5373, 5604, 5402, 5420, 5672, 5393, 5278, 5411, 5285, 5605, 5269, 5256, 5298, 5312, 5321, 5482, 5436, 5678, 5644, 5650, 5473, 5712, 5288, 5597, 5627, 5624, 5522, 5412, 5348, 5446, 5261, 5675, 5722, 5465, 5477, 5377, 5500, 5413, 5546, 5713, 5433, 5525, 5529, 5257, 5549, 5687, 5442, 5637, 5499, 5326, 5683, 5376, 5619, 5251, 5524, 5307, 5304, 5341, 5476, 5567, 5291, 5707, 5682, 5493, 5450 (15 hits)
30	9	1.0	333.0	Yes	5554.5MHz, -63.0dBm	Hop sequence: 5618, 5326, 5588, 5294, 5686, 5368, 5405, 5678, 5498, 5386, 5268, 5466, 5261, 5675, 5477, 5579, 5639, 5306, 5606, 5607, 5394, 5494, 5272, 5440, 5465, 5617, 5612, 5444, 5601, 5532, 5454, 5640, 5318, 5266, 5647, 5435, 5530, 5553, 5695, 5484, 5482, 5300, 5451, 5351, 5479, 5654, 5664, 5521, 5275, 5372, 5324, 5622, 5705, 5663, 5524, 5576, 5329, 5538, 5469, 5628, 5264, 5543, 5713, 5661, 5688, 5296, 5472, 5594, 5711, 5707, 5422, 5632, 5555, 5717, 5322, 5623, 5307, 5501, 5533, 5566, 5419, 5718, 5676, 5583, 5327, 5528, 5437, 5636, 5534, 5396, 5348, 5471, 5505, 5349, 5342, 5616, 5388, 5280, 5677, 5364 (16 hits)

Table 46 - FCC Short Pulse Radar (Type 1A) Results 80 MHz (Operating channel 5290MHz, channel 52E)						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Burst Information
1	89	1.0	598.0	Yes	5290.0MHz,-63.0dBm	Single burst
2	62	1.0	858.0	Yes	5302.1MHz,-63.0dBm	Single burst
3	86	1.0	618.0	Yes	5312.0MHz,-63.0dBm	Single burst
4	70	1.0	758.0	Yes	5319.4MHz,-63.0dBm	Single burst
5	76	1.0	698.0	Yes	5325.2MHz,-63.0dBm	Single burst
6	74	1.0	718.0	No	5328.0MHz,-63.0dBm	Single burst
7	95	1.0	558.0	Yes	5328.0MHz,-63.0dBm	Single burst
8	58	1.0	918.0	Yes	5328.6MHz,-63.0dBm	Single burst
9	72	1.0	738.0	Yes	5251.4MHz,-63.0dBm	Single burst
10	63	1.0	838.0	Yes	5252.3MHz,-63.0dBm	Single burst
11	92	1.0	578.0	Yes	5255.5MHz,-63.0dBm	Single burst
12	18	1.0	3066.0	Yes	5265.1MHz,-63.0dBm	Single burst
13	81	1.0	658.0	Yes	5267.1MHz,-63.0dBm	Single burst
14	59	1.0	898.0	Yes	5279.6MHz,-63.0dBm	Single burst
15	67	1.0	798.0	Yes	5281.2MHz,-63.0dBm	Single burst

Table 47 - FCC Short Pulse Radar (Type 1B) Results 80 MHz (Operating channel 5290MHz, channel 52E)						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Burst Information
1	51	1.0	1046.0	Yes	5290.0MHz,-63.0dBm	Single burst
2	51	1.0	1052.0	Yes	5301.9MHz,-63.0dBm	Single burst
3	36	1.0	1472.0	Yes	5303.1MHz,-63.0dBm	Single burst
4	18	1.0	3061.0	Yes	5312.2MHz,-63.0dBm	Single burst
5	25	1.0	2190.0	Yes	5316.1MHz,-63.0dBm	Single burst
6	35	1.0	1509.0	Yes	5325.8MHz,-63.0dBm	Single burst
7	20	1.0	2724.0	Yes	5328.6MHz,-63.0dBm	Single burst
8	24	1.0	2282.0	Yes	5251.4MHz,-63.0dBm	Single burst
9	39	1.0	1376.0	Yes	5259.9MHz,-63.0dBm	Single burst
10	34	1.0	1596.0	Yes	5266.0MHz,-63.0dBm	Single burst
11	43	1.0	1236.0	Yes	5268.3MHz,-63.0dBm	Single burst
12	76	1.0	696.0	Yes	5279.1MHz,-63.0dBm	Single burst
13	47	1.0	1132.0	Yes	5284.6MHz,-63.0dBm	Single burst
14	21	1.0	2559.0	Yes	5286.6MHz,-63.0dBm	Single burst
15	43	1.0	1241.0	Yes	5289.3MHz,-63.0dBm	Single burst

Table 48 - FCC Short Pulse Radar (Type 2) Results 80 MHz (Operating channel 5290MHz, channel 52E)						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Burst Information
1	24	3.1	207.0	Yes	5290.0MHz,-63.0dBm	Single burst
2	27	2.4	217.0	Yes	5300.3MHz,-63.0dBm	Single burst
3	24	2.2	179.0	Yes	5309.9MHz,-63.0dBm	Single burst
4	26	2.3	224.0	Yes	5319.4MHz,-63.0dBm	Single burst
5	25	1.5	170.0	Yes	5328.6MHz,-63.0dBm	Single burst
6	26	2.5	157.0	Yes	5251.4MHz,-63.0dBm	Single burst
7	29	1.3	220.0	No	5253.8MHz,-63.0dBm	Single burst
8	24	2.6	226.0	Yes	5253.8MHz,-63.0dBm	Single burst
9	25	4.8	173.0	No	5261.1MHz,-63.0dBm	Single burst
10	28	2.4	211.0	Yes	5261.1MHz,-63.0dBm	Single burst
11	27	5.0	167.0	Yes	5272.8MHz,-63.0dBm	Single burst
12	28	4.1	173.0	Yes	5275.5MHz,-63.0dBm	Single burst
13	23	1.7	211.0	Yes	5287.2MHz,-63.0dBm	Single burst
14	23	3.0	194.0	Yes	5291.9MHz,-63.0dBm	Single burst
15	25	1.2	176.0	Yes	5301.2MHz,-63.0dBm	Single burst
16	27	2.5	191.0	Yes	5311.8MHz,-63.0dBm	Single burst
17	25	3.0	218.0	Yes	5315.2MHz,-63.0dBm	Single burst
18	28	1.8	173.0	Yes	5320.4MHz,-63.0dBm	Single burst
19	26	1.1	170.0	No	5324.9MHz,-63.0dBm	Single burst
20	28	4.4	157.0	Yes	5324.9MHz,-63.0dBm	Single burst
21	23	3.5	203.0	Yes	5328.6MHz,-63.0dBm	Single burst
22	24	1.9	220.0	Yes	5251.4MHz,-63.0dBm	Single burst
23	27	4.7	210.0	Yes	5253.1MHz,-63.0dBm	Single burst
24	26	4.3	179.0	Yes	5257.3MHz,-63.0dBm	Single burst
25	27	4.8	175.0	Yes	5258.8MHz,-63.0dBm	Single burst
26	25	3.5	183.0	Yes	5270.0MHz,-63.0dBm	Single burst
27	25	2.5	213.0	Yes	5276.1MHz,-63.0dBm	Single burst
28	26	1.5	195.0	Yes	5286.3MHz,-63.0dBm	Single burst
29	23	3.3	163.0	Yes	5295.2MHz,-63.0dBm	Single burst
30	26	3.7	184.0	Yes	5302.8MHz,-63.0dBm	Single burst

Table 49 - FCC Short Pulse Radar (Type 3) Results 80 MHz (Operating channel 5290MHz, channel 52E)						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Burst Information
1	17	9.1	449.0	Yes	5290.0MHz,-63.0dBm	Single burst
2	17	9.5	223.0	Yes	5291.8MHz,-63.0dBm	Single burst
3	17	8.2	478.0	Yes	5299.9MHz,-63.0dBm	Single burst
4	17	8.3	498.0	Yes	5306.2MHz,-63.0dBm	Single burst
5	17	9.4	363.0	No	5307.5MHz,-63.0dBm	Single burst
6	17	7.8	292.0	Yes	5307.5MHz,-63.0dBm	Single burst
7	18	6.3	400.0	Yes	5311.6MHz,-63.0dBm	Single burst
8	17	7.5	281.0	Yes	5320.2MHz,-63.0dBm	Single burst
9	18	7.9	435.0	Yes	5328.6MHz,-63.0dBm	Single burst
10	17	8.0	400.0	Yes	5251.4MHz,-63.0dBm	Single burst
11	18	8.9	379.0	Yes	5258.0MHz,-63.0dBm	Single burst
12	18	8.6	272.0	Yes	5262.2MHz,-63.0dBm	Single burst
13	18	8.0	404.0	Yes	5271.5MHz,-63.0dBm	Single burst
14	16	6.7	334.0	Yes	5280.4MHz,-63.0dBm	Single burst
15	17	8.8	279.0	No	5287.7MHz,-63.0dBm	Single burst
16	17	6.7	402.0	Yes	5287.7MHz,-63.0dBm	Single burst
17	18	8.5	204.0	Yes	5300.3MHz,-63.0dBm	Single burst
18	17	6.8	416.0	Yes	5305.2MHz,-63.0dBm	Single burst
19	17	7.4	269.0	Yes	5311.7MHz,-63.0dBm	Single burst
20	17	9.9	461.0	Yes	5316.3MHz,-63.0dBm	Single burst
21	17	9.6	414.0	Yes	5320.9MHz,-63.0dBm	Single burst
22	17	7.4	363.0	Yes	5328.6MHz,-63.0dBm	Single burst
23	17	6.4	428.0	Yes	5251.4MHz,-63.0dBm	Single burst
24	17	6.0	305.0	No	5252.3MHz,-63.0dBm	Single burst
25	18	6.0	396.0	Yes	5252.3MHz,-63.0dBm	Single burst
26	17	8.4	460.0	Yes	5264.3MHz,-63.0dBm	Single burst
27	17	7.2	262.0	Yes	5265.8MHz,-63.0dBm	Single burst
28	16	8.2	429.0	Yes	5268.8MHz,-63.0dBm	Single burst
29	17	8.2	412.0	No	5270.9MHz,-63.0dBm	Single burst
30	18	7.9	321.0	Yes	5270.9MHz,-63.0dBm	Single burst

Table 50 - FCC Short Pulse Radar (Type 4) Results 80 MHz (Operating channel 5300MHz, channel 52E)						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Burst Information
1	14	17.5	488.0	Yes	5290.0MHz,-63.0dBm	Single burst
2	14	14.6	485.0	Yes	5295.0MHz,-63.0dBm	Single burst
3	14	14.9	479.0	Yes	5302.5MHz,-63.0dBm	Single burst
4	14	16.9	478.0	Yes	5314.3MHz,-63.0dBm	Single burst
5	15	14.7	389.0	Yes	5321.0MHz,-63.0dBm	Single burst
6	13	17.8	416.0	Yes	5328.6MHz,-63.0dBm	Single burst
7	12	12.8	345.0	Yes	5251.4MHz,-63.0dBm	Single burst
8	16	11.4	331.0	Yes	5256.3MHz,-63.0dBm	Single burst
9	14	16.6	494.0	Yes	5260.0MHz,-63.0dBm	Single burst
10	13	13.9	324.0	Yes	5264.3MHz,-63.0dBm	Single burst
11	15	17.8	334.0	No	5271.4MHz,-63.0dBm	Single burst
12	15	13.7	471.0	No	5271.4MHz,-63.0dBm	Single burst
13	14	13.9	255.0	Yes	5271.4MHz,-63.0dBm	Single burst
14	12	13.9	399.0	No	5273.9MHz,-63.0dBm	Single burst
15	13	15.0	402.0	Yes	5273.9MHz,-63.0dBm	Single burst
16	14	14.6	280.0	Yes	5276.2MHz,-63.0dBm	Single burst
17	14	12.8	477.0	No	5288.1MHz,-63.0dBm	Single burst
18	14	12.0	315.0	Yes	5288.1MHz,-63.0dBm	Single burst
19	13	17.3	311.0	No	5300.3MHz,-63.0dBm	Single burst
20	14	19.3	474.0	Yes	5300.3MHz,-63.0dBm	Single burst
21	16	14.7	213.0	Yes	5312.0MHz,-63.0dBm	Single burst
22	13	12.2	228.0	Yes	5318.1MHz,-63.0dBm	Single burst
23	15	13.4	212.0	No	5321.1MHz,-63.0dBm	Single burst
24	14	14.8	401.0	Yes	5321.1MHz,-63.0dBm	Single burst
25	15	12.5	343.0	Yes	5328.6MHz,-63.0dBm	Single burst
26	14	18.8	369.0	Yes	5251.4MHz,-63.0dBm	Single burst
27	15	18.0	246.0	Yes	5254.3MHz,-63.0dBm	Single burst
28	14	16.9	299.0	No	5261.8MHz,-63.0dBm	Single burst
29	14	13.4	464.0	Yes	5261.8MHz,-63.0dBm	Single burst
30	15	13.8	351.0	Yes	5274.0MHz,-63.0dBm	Single burst

Table 51 - FCC Long Pulse Radar (Type 5) Summary 80 MHz (Operating channel 5290MHz, channel 52E)		
FCC Long Pulse Radar (Type 5) Trial	Result	Frequency, Level
Trial #1	NOT Detected	5290.0MHz,-63.0dBm
Trial #2	Detected	5290.0MHz,-63.0dBm
Trial #3	NOT Detected	5290.0MHz,-63.0dBm
Trial #4	Detected	5290.0MHz,-63.0dBm
Trial #5	Detected	5290.0MHz,-63.0dBm
Trial #6	Detected	5290.0MHz,-63.0dBm
Trial #7	Detected	5290.0MHz,-63.0dBm
Trial #8	NOT Detected	5290.0MHz,-63.0dBm
Trial #9	Detected	5290.0MHz,-63.0dBm
Trial #10	Detected	5290.0MHz,-63.0dBm
Trial #11	Detected	5259.0MHz,-63.0dBm
Trial #12	NOT Detected	5253.8MHz,-63.0dBm
Trial #13	Detected	5253.8MHz,-63.0dBm
Trial #14	Detected	5256.2MHz,-63.0dBm
Trial #15	Detected	5255.0MHz,-63.0dBm
Trial #16	Detected	5255.4MHz,-63.0dBm
Trial #17	NOT Detected	5253.8MHz,-63.0dBm
Trial #18	Detected	5255.4MHz,-63.0dBm
Trial #19	Detected	5255.0MHz,-63.0dBm
Trial #20	Detected	5255.4MHz,-63.0dBm
Trial #21	Detected	5323.0MHz,-63.0dBm
Trial #22	Detected	5321.8MHz,-63.0dBm
Trial #23	NOT Detected	5326.2MHz,-63.0dBm
Trial #24	Detected	5322.6MHz,-63.0dBm
Trial #25	Detected	5322.2MHz,-63.0dBm
Trial #26	Detected	5322.6MHz,-63.0dBm
Trial #27	Detected	5322.6MHz,-63.0dBm
Trial #28	Detected	5323.8MHz,-63.0dBm
Trial #29	Detected	5325.4MHz,-63.0dBm
Trial #30	Detected	5321.4MHz,-63.0dBm

Table 52 - FCC Long Pulse Radar (Type 5) Trial#1 (NOT Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	3	89.2	17	1998.0	1837.0	0.609613
2	1	55.1	17	-	-	0.985300
3	2	92.3	17	1100.0	-	1.848389
4	2	74.1	17	1309.0	-	2.152028
5	1	73.0	17	-	-	2.533243
6	3	58.8	17	1186.0	1158.0	3.460951
7	1	97.6	17	-	-	4.298982
8	1	71.5	17	-	-	4.825153
9	3	63.9	17	1833.0	1439.0	5.102770
10	2	92.9	17	1984.0	-	6.151124
11	2	93.7	17	1488.0	-	6.750645
12	2	60.6	17	1841.0	-	7.558299
13	1	58.1	17	-	-	7.670576
14	1	76.3	17	-	-	8.835940
15	2	94.6	17	1835.0	-	9.118781
16	3	57.6	17	1660.0	1538.0	10.008532
17	2	98.1	17	1377.0	-	10.699076
18	3	64.4	17	1043.0	1753.0	10.944057
19	2	97.0	17	1170.0	-	11.480176

Table 53 - FCC Long Pulse Radar (Type 5) Trial#2 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	61.4	17	1541.0	-	0.663544
2	2	89.2	17	1018.0	-	1.658795
3	3	77.1	17	1375.0	1980.0	2.591549
4	1	84.2	17	-	-	3.681995
5	2	67.4	17	1010.0	-	3.869232
6	3	88.4	17	1889.0	1426.0	5.024247
7	2	62.8	17	1115.0	-	5.952020
8	1	61.1	17	-	-	7.346411
9	3	71.4	17	1222.0	1969.0	7.424315
10	2	97.6	17	1527.0	-	8.419508
11	1	68.0	17	-	-	9.928583
12	2	95.1	17	1419.0	-	10.449612
13	1	55.3	17	-	-	11.499798

Table 54 - FCC Long Pulse Radar (Type 5) Trial#3 (NOT Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	1	86.2	12	-	-	0.720982
2	2	79.4	12	1658.0	-	0.847703
3	1	59.9	12	-	-	2.237483
4	3	62.0	12	1358.0	1366.0	2.883081
5	3	65.7	12	1040.0	1067.0	3.332313
6	2	76.8	12	1070.0	-	4.214600
7	3	65.9	12	1788.0	1836.0	5.043836
8	3	84.4	12	1334.0	1146.0	5.692797
9	2	83.7	12	1377.0	-	7.086414
10	2	96.5	12	1636.0	-	7.319825
11	2	94.0	12	1251.0	-	8.774190
12	1	85.5	12	-	-	9.094318
13	2	82.1	12	1728.0	-	10.246490
14	1	93.6	12	-	-	11.005132
15	3	81.5	12	1034.0	1455.0	11.287370

Table 55 - FCC Long Pulse Radar (Type 5) Trial#4 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	3	83.5	11	1015.0	1238.0	0.090220
2	1	66.4	11	-	-	1.035160
3	2	76.4	11	1109.0	-	1.496421
4	2	98.1	11	1910.0	-	2.015007
5	2	51.4	11	1423.0	-	3.145514
6	2	93.1	11	1871.0	-	3.848138
7	1	86.7	11	-	-	4.517180
8	3	56.4	11	1513.0	1474.0	4.846135
9	2	97.4	11	1150.0	-	5.756793
10	2	97.0	11	1993.0	-	6.268722
11	2	85.0	11	1303.0	-	6.883287
12	3	83.9	11	1217.0	1728.0	7.733930
13	2	99.0	11	1658.0	-	8.139316
14	2	72.2	11	1582.0	-	8.848374
15	2	74.1	11	1874.0	-	9.693539
16	2	70.1	11	1830.0	-	10.277737
17	1	88.6	11	-	-	11.052108
18	2	67.8	11	1140.0	-	11.774499

Table 56 - FCC Long Pulse Radar (Type 5) Trial#5 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	1	84.3	13	-	-	0.056830
2	2	53.6	13	1227.0	-	0.844824
3	2	67.4	13	1337.0	-	1.670509
4	3	94.0	13	1990.0	1450.0	2.791604
5	2	98.8	13	1579.0	-	3.376686
6	1	51.0	13	-	-	4.645817
7	2	77.3	13	1165.0	-	5.235631
8	3	79.1	13	1910.0	1259.0	6.378985
9	2	76.8	13	1467.0	-	7.103992
10	2	81.4	13	1582.0	-	7.302463
11	1	56.2	13	-	-	8.671995
12	2	69.8	13	1516.0	-	9.093243
13	3	51.8	13	1985.0	1365.0	10.204127
14	1	95.3	13	-	-	11.061792
15	2	73.5	13	1965.0	-	11.247292

Table 57 - FCC Long Pulse Radar (Type 5) Trial#6 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	1	63.0	10	-	-	0.385285
2	2	69.4	10	1249.0	-	0.986822
3	2	51.1	10	1664.0	-	1.883791
4	2	53.2	10	1940.0	-	2.976814
5	2	88.7	10	1278.0	-	3.558832
6	2	66.6	10	1484.0	-	4.146947
7	1	89.9	10	-	-	5.008526
8	2	77.9	10	1228.0	-	5.767494
9	2	66.9	10	1185.0	-	6.423707
10	1	55.1	10	-	-	7.857428
11	2	88.3	10	1694.0	-	8.349013
12	1	82.6	10	-	-	9.370097
13	1	95.0	10	-	-	9.694637
14	1	92.1	10	-	-	11.151734
15	1	82.7	10	-	-	11.384266

Table 58 - FCC Long Pulse Radar (Type 5) Trial#7 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	97.3	6	1595.0	-	0.426520
2	3	64.2	6	1373.0	1300.0	0.739094
3	2	53.4	6	1869.0	-	1.726320
4	2	80.5	6	1630.0	-	2.407892
5	2	74.7	6	1765.0	-	3.050792
6	1	76.7	6	-	-	3.517358
7	2	76.8	6	1887.0	-	3.920654
8	1	52.4	6	-	-	4.840648
9	2	76.5	6	1248.0	-	5.261501
10	2	70.5	6	1844.0	-	5.857131
11	1	65.3	6	-	-	6.730431
12	2	53.7	6	1978.0	-	7.060495
13	2	94.0	6	1292.0	-	8.141597
14	2	65.9	6	1605.0	-	8.539753
15	3	78.4	6	1625.0	1460.0	8.977991
16	2	84.3	6	1835.0	-	9.594088
17	2	91.9	6	1196.0	-	10.480929
18	2	91.7	6	1670.0	-	10.899399
19	1	53.1	6	-	-	11.521721

Table 59 - FCC Long Pulse Radar (Type 5) Trial#8 (NOT Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	72.3	19	1367.0	-	0.197464
2	3	67.1	19	1317.0	1795.0	1.678797
3	2	64.3	19	1010.0	-	2.666878
4	2	57.6	19	1512.0	-	4.101768
5	1	85.1	19	-	-	5.617967
6	2	67.0	19	1196.0	-	6.341683
7	1	69.1	19	-	-	8.398741
8	2	73.8	19	1225.0	-	8.916402
9	1	94.3	19	-	-	10.750663
10	3	81.1	19	1469.0	1623.0	11.236169

Table 60 - FCC Long Pulse Radar (Type 5) Trial#9 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	58.4	6	1269.0	-	0.860628
2	1	70.3	6	-	-	2.349746
3	2	88.5	6	1379.0	-	2.864553
4	2	62.1	6	1669.0	-	4.516829
5	3	71.5	6	1483.0	1977.0	5.629473
6	1	94.1	6	-	-	6.465211
7	2	79.7	6	1042.0	-	8.392793
8	3	93.5	6	1092.0	1552.0	8.723085
9	3	95.5	6	1929.0	1306.0	9.852119
10	1	67.3	6	-	-	10.974043

Table 61 - FCC Long Pulse Radar (Type 5) Trial#10 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	3	89.3	7	1857.0	1132.0	0.656149
2	1	65.9	7	-	-	1.314482
3	2	83.0	7	1100.0	-	2.225384
4	2	56.4	7	1610.0	-	3.179781
5	1	61.2	7	-	-	3.963724
6	2	74.1	7	1342.0	-	4.068862
7	2	99.8	7	1569.0	-	5.300559
8	2	51.2	7	1370.0	-	5.828241
9	2	77.2	7	1130.0	-	6.513092
10	1	58.7	7	-	-	7.302441
11	1	69.8	7	-	-	8.457811
12	2	51.0	7	1536.0	-	9.075332
13	2	63.1	7	1464.0	-	10.328671
14	2	85.8	7	1634.0	-	10.723699
15	1	85.9	7	-	-	11.368415

Table 62 - FCC Long Pulse Radar (Type 5) Trial#11 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	56.8	19	1026.0	-	0.519366
2	1	96.5	19	-	-	1.937702
3	3	52.8	19	1453.0	1532.0	2.739985
4	2	95.8	19	1702.0	-	4.126366
5	1	77.2	19	-	-	5.277030
6	1	55.1	19	-	-	6.609874
7	2	90.9	19	1942.0	-	7.220697
8	3	98.8	19	1289.0	1542.0	9.265943
9	1	70.7	19	-	-	10.539134
10	2	54.9	19	1843.0	-	11.274865

Table 63 - FCC Long Pulse Radar (Type 5) Trial#12 (NOT Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	1	81.2	6	-	-	0.007618
2	1	52.7	6	-	-	1.558700
3	1	76.1	6	-	-	4.369178
4	3	68.3	6	1761.0	1264.0	5.893358
5	3	76.5	6	1674.0	1008.0	6.111228
6	2	81.9	6	1204.0	-	8.858096
7	2	63.6	6	1177.0	-	9.644082
8	2	80.4	6	1919.0	-	11.051107

Table 64 - FCC Long Pulse Radar (Type 5) Trial#13 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	3	59.8	6	1022.0	1299.0	0.055335
2	1	75.4	6	-	-	1.301738
3	1	79.7	6	-	-	2.084022
4	3	81.0	6	1338.0	1678.0	2.766474
5	3	89.7	6	1616.0	1861.0	2.871798
6	1	70.9	6	-	-	3.862447
7	2	51.4	6	1073.0	-	4.610869
8	1	64.4	6	-	-	5.118370
9	2	77.4	6	1720.0	-	6.002697
10	2	93.5	6	1665.0	-	6.660499
11	1	71.3	6	-	-	7.614301
12	2	61.2	6	1095.0	-	8.410229
13	3	66.9	6	1199.0	1526.0	8.687439
14	3	80.9	6	1779.0	1326.0	9.525115
15	2	54.6	6	1812.0	-	10.549557
16	2	52.1	6	1448.0	-	10.707563
17	2	70.3	6	1191.0	-	11.735447

Table 65 - FCC Long Pulse Radar (Type 5) Trial#14 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	1	57.9	12	-	-	0.068923
2	2	88.4	12	1472.0	-	1.168771
3	2	69.2	12	1250.0	-	2.334785
4	2	59.0	12	1245.0	-	3.717526
5	2	57.4	12	1469.0	-	4.158096
6	2	79.5	12	1469.0	-	5.162549
7	1	97.0	12	-	-	6.692448
8	2	63.0	12	1132.0	-	7.198287
9	3	88.8	12	1231.0	1050.0	8.483914
10	3	50.8	12	1819.0	1527.0	9.346190
11	2	81.4	12	1331.0	-	10.909491
12	2	61.1	12	1506.0	-	11.509246

Table 66 - FCC Long Pulse Radar (Type 5) Trial#15 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	67.1	9	1534.0	-	0.732619
2	1	62.6	9	-	-	1.501825
3	3	75.5	9	1480.0	1681.0	2.941788
4	2	72.4	9	1653.0	-	4.173358
5	1	57.5	9	-	-	5.671992
6	2	85.9	9	1901.0	-	6.022880
7	3	75.1	9	1822.0	1190.0	7.474866
8	2	73.9	9	1272.0	-	9.477680
9	1	61.0	9	-	-	10.038146
10	3	66.3	9	1682.0	1439.0	11.824586

Table 67 - FCC Long Pulse Radar (Type 5) Trial#16 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	3	50.9	10	1364.0	1581.0	0.238210
2	1	54.7	10	-	-	1.424535
3	1	91.6	10	-	-	2.124606
4	3	50.4	10	1079.0	1552.0	2.276355
5	3	95.0	10	1254.0	1267.0	3.352001
6	2	60.2	10	1409.0	-	4.019925
7	1	79.3	10	-	-	5.238436
8	2	60.2	10	1366.0	-	5.374572
9	3	64.2	10	1060.0	1775.0	6.712417
10	3	81.3	10	1155.0	1554.0	7.284539
11	1	89.8	10	-	-	8.127641
12	3	72.3	10	1548.0	1642.0	8.368245
13	2	81.4	10	1153.0	-	9.328254
14	3	89.2	10	1142.0	1530.0	10.460613
15	1	88.7	10	-	-	10.646560
16	2	85.3	10	1051.0	-	11.656093

Table 68 - FCC Long Pulse Radar (Type 5) Trial#17 (NOT Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	1	70.8	6	-	-	1.143492
2	1	57.1	6	-	-	2.079140
3	2	74.0	6	1876.0	-	3.147275
4	2	50.7	6	1593.0	-	5.225924
5	2	78.7	6	1568.0	-	6.394935
6	3	89.4	6	1777.0	1002.0	7.800499
7	2	55.7	6	1923.0	-	9.866375
8	2	76.4	6	1044.0	-	11.412448

Table 69 - FCC Long Pulse Radar (Type 5) Trial#18 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	1	61.7	10	-	-	0.784394
2	2	52.1	10	1814.0	-	1.473547
3	2	98.9	10	1953.0	-	2.789975
4	2	79.6	10	1844.0	-	3.012118
5	1	90.7	10	-	-	4.699348
6	3	94.0	10	1427.0	1009.0	5.385822
7	1	79.5	10	-	-	6.571432
8	1	99.1	10	-	-	7.213070
9	1	63.1	10	-	-	8.881960
10	3	61.2	10	1944.0	1323.0	9.303534
11	2	80.8	10	1952.0	-	10.961149
12	2	50.8	10	1986.0	-	11.350275

Table 70 - FCC Long Pulse Radar (Type 5) Trial#19 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	1	98.5	9	-	-	0.124205
2	3	52.1	9	1725.0	1640.0	0.825925
3	1	77.5	9	-	-	1.368823
4	2	67.2	9	1853.0	-	2.271724
5	1	76.6	9	-	-	2.845186
6	2	79.1	9	1552.0	-	3.545189
7	1	77.0	9	-	-	3.935050
8	2	53.7	9	1845.0	-	4.355732
9	2	92.5	9	1722.0	-	5.388448
10	3	51.6	9	1312.0	1923.0	5.533543
11	3	77.3	9	1823.0	1258.0	6.204976
12	1	52.8	9	-	-	6.912984
13	2	84.9	9	1031.0	-	7.634896
14	2	62.3	9	1753.0	-	7.938567
15	2	94.0	9	1021.0	-	8.805187
16	3	61.3	9	1133.0	1893.0	9.257074
17	2	59.2	9	1540.0	-	9.693961
18	2	88.8	9	1594.0	-	10.524114
19	2	94.9	9	1434.0	-	11.279047
20	2	64.7	9	1757.0	-	11.795523

Table 71 - FCC Long Pulse Radar (Type 5) Trial#20 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	3	90.7	10	1995.0	1649.0	0.974533
2	2	86.4	10	1860.0	-	1.581874
3	2	73.5	10	1189.0	-	2.818150
4	1	71.4	10	-	-	3.693202
5	1	71.0	10	-	-	4.294161
6	2	65.4	10	1748.0	-	5.896976
7	1	50.7	10	-	-	6.562152
8	1	75.1	10	-	-	7.050166
9	3	66.2	10	1637.0	1384.0	8.237204
10	3	81.3	10	1862.0	1201.0	9.215302
11	3	88.7	10	1855.0	1404.0	10.086346
12	2	89.1	10	1758.0	-	11.970997

Table 72 - FCC Long Pulse Radar (Type 5) Trial#21 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	3	71.8	14	1920.0	1193.0	0.975996
2	3	59.4	14	1965.0	1826.0	1.157509
3	2	80.5	14	1374.0	-	2.021750
4	1	53.5	14	-	-	3.731556
5	1	83.6	14	-	-	4.640598
6	2	71.3	14	1073.0	-	5.520645
7	1	56.8	14	-	-	6.886578
8	2	82.9	14	1056.0	-	7.868167
9	2	69.7	14	1820.0	-	8.246482
10	2	92.6	14	1661.0	-	9.422436
11	2	94.3	14	1544.0	-	10.640763
12	2	89.9	14	1879.0	-	11.798162

Table 73 - FCC Long Pulse Radar (Type 5) Trial#22 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	85.5	17	1803.0	-	0.531929
2	3	53.8	17	1743.0	1021.0	1.033277
3	2	56.7	17	1719.0	-	1.732327
4	3	51.8	17	1657.0	1832.0	2.339049
5	2	90.7	17	1912.0	-	2.940606
6	3	95.7	17	1136.0	1537.0	3.899381
7	3	64.4	17	1904.0	1710.0	4.023723
8	3	90.1	17	1683.0	1853.0	5.239857
9	2	77.5	17	1423.0	-	5.919637
10	1	54.3	17	-	-	6.160025
11	1	76.6	17	-	-	6.759524
12	2	93.1	17	1646.0	-	7.832526
13	2	53.6	17	1065.0	-	8.494030
14	1	99.6	17	-	-	9.250037
15	2	57.5	17	1790.0	-	9.832120
16	1	64.6	17	-	-	10.457787
17	2	53.1	17	1235.0	-	11.152651
18	3	68.2	17	1293.0	1642.0	11.420936

Table 74 - FCC Long Pulse Radar (Type 5) Trial#23 (NOT Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	58.6	6	1078.0	-	0.481674
2	2	73.5	6	1032.0	-	1.711733
3	2	97.7	6	1724.0	-	3.382082
4	2	50.3	6	1587.0	-	4.607696
5	2	75.2	6	1362.0	-	5.679881
6	1	66.0	6	-	-	6.409085
7	2	79.1	6	1936.0	-	8.068420
8	2	97.5	6	1704.0	-	8.511976
9	3	57.4	6	1791.0	1574.0	9.941794
10	1	56.5	6	-	-	11.625842

Table 75 - FCC Long Pulse Radar (Type 5) Trial#24 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	3	81.1	15	1391.0	1387.0	0.721627
2	2	62.6	15	1869.0	-	0.803513
3	3	84.6	15	1882.0	1915.0	2.269016
4	2	79.2	15	1612.0	-	2.924979
5	2	89.8	15	1951.0	-	3.524406
6	3	84.1	15	1142.0	1717.0	4.271449
7	2	55.8	15	1320.0	-	5.140811
8	2	57.2	15	1252.0	-	5.638100
9	2	90.0	15	1949.0	-	7.171178
10	2	93.3	15	1706.0	-	7.984255
11	1	99.7	15	-	-	8.386681
12	1	83.6	15	-	-	9.396679
13	2	83.8	15	1511.0	-	10.074630
14	2	62.2	15	1065.0	-	10.852356
15	2	85.7	15	1472.0	-	11.497856

Table 76 - FCC Long Pulse Radar (Type 5) Trial#25 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	66.8	16	1225.0	-	0.715042
2	2	90.5	16	1267.0	-	1.411940
3	1	90.5	16	-	-	2.507551
4	3	73.9	16	1289.0	1912.0	3.143754
5	2	67.9	16	1269.0	-	3.989733
6	3	51.7	16	1900.0	1460.0	4.796778
7	3	96.1	16	1869.0	1516.0	5.467883
8	3	50.4	16	1122.0	1671.0	6.517021
9	2	84.6	16	1659.0	-	7.194519
10	2	53.6	16	1234.0	-	7.914898
11	2	85.6	16	1092.0	-	8.963545
12	1	72.3	16	-	-	10.029607
13	2	77.6	16	1803.0	-	10.750207
14	1	53.4	16	-	-	11.537918

Table 77 - FCC Long Pulse Radar (Type 5) Trial#26 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	91.2	15	1940.0	-	0.802650
2	2	90.7	15	1099.0	-	1.825088
3	2	96.2	15	1956.0	-	2.175999
4	2	57.9	15	1287.0	-	3.293987
5	2	59.6	15	1138.0	-	4.253533
6	2	67.8	15	1498.0	-	5.569871
7	2	90.0	15	1809.0	-	6.440543
8	3	90.4	15	1468.0	1277.0	7.827666
9	1	74.7	15	-	-	8.103438
10	2	66.3	15	1097.0	-	9.293563
11	2	89.0	15	1264.0	-	10.360103
12	2	69.1	15	1566.0	-	11.827913

Table 78 - FCC Long Pulse Radar (Type 5) Trial#27 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	71.0	15	1513.0	-	0.587319
2	2	91.0	15	1026.0	-	1.049583
3	1	61.8	15	-	-	2.093812
4	2	64.2	15	1388.0	-	2.522521
5	2	55.0	15	1978.0	-	3.031171
6	1	52.7	15	-	-	3.880706
7	1	59.0	15	-	-	5.020695
8	1	62.7	15	-	-	5.492583
9	2	57.5	15	1749.0	-	6.370432
10	3	69.8	15	1373.0	1629.0	7.492404
11	2	75.5	15	1488.0	-	7.901760
12	3	90.1	15	1035.0	1128.0	8.633584
13	1	61.5	15	-	-	9.273572
14	2	75.7	15	1848.0	-	10.096564
15	2	80.4	15	1543.0	-	10.905804
16	3	58.0	15	1072.0	1737.0	11.703675

Table 79 - FCC Long Pulse Radar (Type 5) Trial#28 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	1	64.2	12	-	-	0.007575
2	2	62.7	12	1462.0	-	1.031047
3	1	79.7	12	-	-	2.200766
4	1	92.0	12	-	-	3.124121
5	1	96.5	12	-	-	3.239151
6	1	72.6	12	-	-	4.033641
7	2	56.8	12	1927.0	-	5.123825
8	2	78.1	12	1274.0	-	5.700521
9	2	99.0	12	1753.0	-	6.718213
10	2	96.5	12	1208.0	-	7.701729
11	3	96.8	12	1399.0	1417.0	8.707623
12	1	52.8	12	-	-	9.594307
13	3	92.9	12	1561.0	1264.0	10.077136
14	1	57.8	12	-	-	10.942428
15	1	96.4	12	-	-	11.594622

Table 80 - FCC Long Pulse Radar (Type 5) Trial#29 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	81.7	8	1804.0	-	0.367670
2	3	87.8	8	1468.0	1007.0	1.578515
3	1	96.9	8	-	-	2.738269
4	3	74.2	8	1737.0	1989.0	4.846717
5	3	85.8	8	1774.0	1332.0	6.075228
6	3	94.3	8	1723.0	1301.0	7.962876
7	3	75.2	8	1123.0	1962.0	9.114852
8	3	83.4	8	1870.0	1820.0	10.333148
9	1	60.0	8	-	-	11.879370

Table 81 - FCC Long Pulse Radar (Type 5) Trial#30 (Detected) 80 MHz (Operating channel 5290MHz, channel 52E)						
Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (s)
1	2	87.1	18	1023.0	-	0.410255
2	2	88.1	18	1873.0	-	1.067972
3	2	97.9	18	1059.0	-	1.777797
4	3	90.4	18	1784.0	1767.0	3.017879
5	1	87.0	18	-	-	3.282330
6	1	72.9	18	-	-	4.353062
7	1	64.7	18	-	-	5.080477
8	3	79.2	18	1678.0	1385.0	5.845182
9	3	57.3	18	1130.0	1789.0	6.579517
10	1	57.2	18	-	-	7.365259
11	3	91.0	18	1004.0	1533.0	8.621269
12	2	51.7	18	1332.0	-	8.889234
13	1	97.8	18	-	-	10.363634
14	2	96.6	18	1570.0	-	10.750734
15	1	76.2	18	-	-	11.738060

Table 82 - FCC frequency hopping radar (Type 6) Results 80 MHz (Operating channel 5290MHz, channel 52E)						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Hopping Sequence
1	9	1.0	333.0	Yes	5290.0MHz, -63.0dBm	Hop sequence: 5572, 5653, 5542, 5280, 5665, 5632, 5298, 5513, 5670, 5456, 5343, 5455, 5600, 5342, 5554, 5266, 5685, 5533, 5549, 5597, 5530, 5580, 5424, 5253, 5392, 5404, 5454, 5669, 5432, 5422, 5430, 5532, 5407, 5655, 5671, 5663, 5319, 5274, 5367, 5721, 5433, 5336, 5562, 5470, 5361, 5469, 5660, 5624, 5585, 5397, 5323, 5539, 5620, 5596, 5411, 5593, 5710, 5275, 5514, 5589, 5384, 5296, 5577, 5481, 5510, 5587, 5717, 5321, 5704, 5306, 5317, 5499, 5438, 5659, 5682, 5674, 5725, 5488, 5634, 5656, 5558, 5313, 5519, 5517, 5694, 5636, 5627, 5270, 5394, 5579, 5507, 5650, 5525, 5389, 5527, 5614, 5441, 5284, 5446, 5286 (16 hits)
2	9	1.0	333.0	Yes	5295.3MHz, -63.0dBm	Hop sequence: 5332, 5301, 5257, 5661, 5370, 5548, 5658, 5710, 5680, 5570, 5488, 5295, 5454, 5643, 5446, 5351, 5475, 5286, 5329, 5276, 5706, 5422, 5290, 5356, 5568, 5622, 5699, 5357, 5540, 5559, 5493, 5299, 5598, 5368, 5720, 5603, 5483, 5402, 5441, 5355, 5723, 5387, 5549, 5328, 5366, 5702, 5314, 5692, 5656, 5313, 5556, 5713, 5347, 5611, 5316, 5691, 5695, 5336, 5668, 5481, 5551, 5418, 5597, 5609, 5266, 5555, 5462, 5531, 5491, 5605, 5403, 5623, 5564, 5397, 5579, 5567, 5626, 5616, 5334, 5447, 5537, 5399, 5390, 5359, 5685, 5271, 5614, 5507, 5648, 5486, 5432, 5669, 5459, 5505, 5384, 5344, 5500, 5292, 5448, 5640 (14 hits)
3	9	1.0	333.0	Yes	5297.3MHz, -63.0dBm	Hop sequence: 5542, 5653, 5318, 5282, 5338, 5517, 5473, 5674, 5306, 5395, 5467, 5659, 5377, 5684, 5648, 5639, 5626, 5358, 5705, 5629, 5528, 5291, 5275, 5431, 5706, 5257, 5640, 5286, 5495, 5430, 5416, 5328, 5384, 5460, 5688, 5600, 5478, 5686, 5543, 5378, 5548, 5261, 5342, 5406, 5402, 5293, 5650, 5494, 5584, 5513, 5279, 5523, 5643, 5556, 5264, 5619, 5624, 5535, 5622, 5397, 5635, 5274, 5409, 5305, 5658, 5309, 5323, 5623, 5564, 5678, 5440, 5550, 5670, 5423, 5341, 5609, 5347, 5351, 5491, 5694, 5361, 5568, 5421, 5649, 5344, 5637, 5254, 5534, 5520, 5493, 5508, 5418, 5647, 5313, 5601, 5374, 5725, 5708, 5611, 5455 (18 hits)
4	9	1.0	333.0	Yes	5304.7MHz, -63.0dBm	Hop sequence: 5547, 5525, 5636, 5303, 5446, 5598, 5700, 5261, 5424, 5717, 5375, 5684, 5387, 5404, 5420, 5526, 5425, 5385, 5680, 5710, 5520, 5393, 5354, 5682, 5316, 5401, 5346, 5718, 5466, 5415, 5566, 5443, 5611, 5285, 5662, 5608, 5625, 5705, 5301, 5474, 5549, 5665, 5599, 5361, 5557, 5641, 5358, 5661, 5429, 5606, 5323, 5398, 5690, 5476, 5677, 5692, 5602, 5626, 5295, 5412, 5711, 5494, 5444, 5519, 5489, 5695, 5568, 5649, 5265, 5464, 5627, 5279, 5485, 5571, 5522, 5423, 5527, 5426, 5694, 5392, 5280, 5706, 5720, 5373, 5435, 5378, 5339, 5475, 5579, 5618, 5673, 5723, 5488, 5503, 5481, 5306, 5470, 5465, 5405, 5430 (11 hits)

Table 82 - FCC frequency hopping radar (Type 6) Results 80 MHz (Operating channel 5290MHz, channel 52E)

Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Hopping Sequence
5	9	1.0	333.0	Yes	5307.5MHz, -63.0dBm	Hop sequence: 5449, 5530, 5494, 5549, 5726, 5645, 5398, 5648, 5491, 5604, 5469, 5722, 5399, 5671, 5450, 5397, 5306, 5630, 5348, 5337, 5415, 5706, 5251, 5608, 5564, 5555, 5294, 5363, 5421, 5487, 5286, 5566, 5270, 5563, 5288, 5556, 5512, 5263, 5586, 5266, 5598, 5617, 5562, 5422, 5684, 5441, 5381, 5482, 5578, 5412, 5277, 5612, 5712, 5340, 5357, 5659, 5375, 5447, 5701, 5691, 5629, 5674, 5317, 5365, 5516, 5315, 5302, 5473, 5316, 5710, 5558, 5477, 5457, 5506, 5569, 5323, 5560, 5635, 5345, 5451, 5510, 5360, 5434, 5623, 5391, 5655, 5356, 5565, 5301, 5704, 5435, 5636, 5255, 5269, 5496, 5408, 5543, 5664, 5387, 5502 (16 hits)
6	9	1.0	333.0	Yes	5318.5MHz, -63.0dBm	Hop sequence: 5290, 5607, 5542, 5426, 5253, 5443, 5682, 5338, 5255, 5652, 5717, 5335, 5594, 5427, 5491, 5450, 5410, 5509, 5264, 5272, 5501, 5452, 5311, 5664, 5451, 5341, 5461, 5597, 5330, 5517, 5721, 5614, 5705, 5625, 5305, 5464, 5527, 5334, 5481, 5375, 5715, 5364, 5587, 5484, 5368, 5630, 5699, 5370, 5301, 5724, 5456, 5260, 5708, 5409, 5707, 5467, 5657, 5720, 5436, 5693, 5325, 5332, 5508, 5485, 5358, 5269, 5641, 5622, 5515, 5302, 5396, 5613, 5388, 5470, 5265, 5685, 5252, 5531, 5585, 5276, 5611, 5287, 5469, 5356, 5618, 5381, 5545, 5576, 5677, 5523, 5616, 5627, 5526, 5363, 5711, 5586, 5651, 5294, 5511, 5288 (18 hits)
7	9	1.0	333.0	Yes	5321.3MHz, -63.0dBm	Hop sequence: 5595, 5434, 5368, 5418, 5527, 5713, 5263, 5706, 5348, 5618, 5654, 5546, 5493, 5694, 5257, 5409, 5423, 5697, 5715, 5685, 5377, 5568, 5400, 5588, 5393, 5530, 5490, 5477, 5316, 5465, 5322, 5548, 5376, 5608, 5298, 5680, 5642, 5585, 5356, 5318, 5475, 5572, 5320, 5693, 5606, 5279, 5704, 5300, 5609, 5436, 5545, 5536, 5551, 5720, 5600, 5510, 5583, 5297, 5255, 5560, 5331, 5662, 5341, 5315, 5468, 5472, 5580, 5290, 5590, 5355, 5358, 5684, 5486, 5333, 5641, 5500, 5379, 5448, 5593, 5349, 5515, 5453, 5660, 5347, 5470, 5675, 5563, 5431, 5291, 5373, 5340, 5419, 5615, 5639, 5571, 5410, 5381, 5385, 5555, 5425 (14 hits)
8	9	1.0	333.0	Yes	5328.6MHz, -63.0dBm	Hop sequence: 5423, 5320, 5436, 5638, 5575, 5324, 5675, 5721, 5281, 5717, 5471, 5576, 5489, 5479, 5322, 5533, 5518, 5586, 5348, 5604, 5511, 5460, 5297, 5687, 5311, 5339, 5692, 5399, 5451, 5709, 5502, 5416, 5477, 5673, 5270, 5478, 5640, 5446, 5360, 5455, 5381, 5517, 5463, 5562, 5631, 5624, 5637, 5589, 5461, 5598, 5336, 5719, 5650, 5347, 5538, 5429, 5676, 5595, 5666, 5661, 5500, 5303, 5694, 5295, 5440, 5287, 5415, 5266, 5601, 5552, 5621, 5512, 5476, 5702, 5545, 5547, 5495, 5387, 5584, 5565, 5314, 5456, 5443, 5378, 5690, 5386, 5262, 5501, 5520, 5364, 5523, 5346, 5509, 5622, 5412, 5567, 5561, 5462, 5556, 5328 (14 hits)

Table 82 - FCC frequency hopping radar (Type 6) Results 80 MHz (Operating channel 5290MHz, channel 52E)						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Hopping Sequence
9	9	1.0	333.0	Yes	5251.4MHz, -63.0dBm	Hop sequence: 5700, 5585, 5713, 5323, 5712, 5440, 5390, 5427, 5580, 5257, 5292, 5450, 5575, 5519, 5322, 5513, 5419, 5297, 5696, 5272, 5584, 5356, 5342, 5577, 5269, 5448, 5501, 5250, 5352, 5360, 5565, 5635, 5415, 5339, 5295, 5606, 5617, 5375, 5608, 5581, 5622, 5564, 5380, 5359, 5326, 5388, 5422, 5692, 5678, 5253, 5570, 5476, 5662, 5331, 5306, 5403, 5383, 5560, 5539, 5691, 5543, 5298, 5371, 5558, 5521, 5665, 5430, 5684, 5379, 5639, 5366, 5270, 5268, 5656, 5287, 5602, 5407, 5638, 5549, 5650, 5318, 5444, 5481, 5251, 5663, 5312, 5544, 5493, 5711, 5626, 5518, 5545, 5353, 5605, 5610, 5358, 5541, 5621, 5284, 5673 (18 hits)
10	9	1.0	333.0	Yes	5251.6MHz, -63.0dBm	Hop sequence: 5297, 5660, 5347, 5491, 5460, 5268, 5454, 5345, 5609, 5495, 5642, 5420, 5326, 5473, 5333, 5379, 5624, 5302, 5402, 5561, 5422, 5567, 5274, 5256, 5279, 5612, 5284, 5545, 5510, 5651, 5306, 5639, 5328, 5688, 5461, 5516, 5300, 5348, 5691, 5562, 5303, 5353, 5421, 5448, 5424, 5488, 5599, 5264, 5457, 5693, 5462, 5616, 5527, 5269, 5377, 5571, 5540, 5459, 5299, 5618, 5444, 5433, 5686, 5479, 5332, 5405, 5346, 5549, 5631, 5317, 5657, 5555, 5314, 5489, 5580, 5378, 5337, 5464, 5352, 5370, 5625, 5590, 5517, 5275, 5511, 5411, 5519, 5343, 5644, 5589, 5535, 5602, 5292, 5636, 5429, 5687, 5294, 5442, 5714, 5513 (20 hits)
11	9	1.0	333.0	Yes	5262.0MHz, -63.0dBm	Hop sequence: 5442, 5410, 5538, 5402, 5466, 5541, 5469, 5257, 5299, 5452, 5453, 5377, 5691, 5631, 5290, 5587, 5570, 5644, 5258, 5265, 5268, 5481, 5491, 5434, 5715, 5276, 5567, 5444, 5334, 5724, 5366, 5635, 5396, 5640, 5360, 5591, 5589, 5704, 5413, 5340, 5637, 5296, 5388, 5394, 5405, 5472, 5501, 5697, 5672, 5719, 5645, 5639, 5549, 5280, 5318, 5372, 5658, 5458, 5596, 5660, 5317, 5694, 5609, 5274, 5680, 5465, 5266, 5255, 5515, 5670, 5437, 5368, 5504, 5292, 5484, 5650, 5351, 5577, 5315, 5725, 5256, 5260, 5709, 5397, 5606, 5524, 5528, 5425, 5416, 5486, 5328, 5408, 5706, 5423, 5708, 5536, 5723, 5534, 5685, 5478 (19 hits)
12	9	1.0	333.0	Yes	5273.9MHz, -63.0dBm	Hop sequence: 5295, 5484, 5399, 5691, 5583, 5447, 5672, 5504, 5286, 5591, 5462, 5624, 5334, 5468, 5589, 5547, 5285, 5306, 5549, 5486, 5466, 5438, 5652, 5316, 5629, 5323, 5700, 5467, 5676, 5665, 5370, 5265, 5580, 5487, 5663, 5260, 5540, 5320, 5496, 5511, 5465, 5664, 5633, 5347, 5274, 5333, 5687, 5518, 5390, 5449, 5485, 5638, 5562, 5251, 5407, 5374, 5351, 5623, 5448, 5261, 5373, 5552, 5702, 5430, 5680, 5718, 5453, 5477, 5258, 5709, 5343, 5724, 5443, 5674, 5376, 5508, 5416, 5602, 5329, 5704, 5410, 5321, 5513, 5493, 5646, 5596, 5636, 5355, 5420, 5310, 5517, 5262, 5337, 5335, 5381, 5627, 5299, 5600, 5656, 5639 (16 hits)

Table 82 - FCC frequency hopping radar (Type 6) Results 80 MHz (Operating channel 5290MHz, channel 52E)

Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Hopping Sequence
13	9	1.0	333.0	Yes	5277.7MHz, -63.0dBm	Hop sequence: 5453, 5701, 5507, 5411, 5534, 5580, 5435, 5424, 5559, 5371, 5552, 5554, 5252, 5381, 5328, 5622, 5478, 5691, 5425, 5429, 5594, 5626, 5319, 5490, 5342, 5558, 5427, 5662, 5673, 5587, 5550, 5510, 5610, 5518, 5461, 5308, 5251, 5390, 5630, 5574, 5597, 5502, 5396, 5299, 5436, 5463, 5433, 5397, 5548, 5638, 5636, 5725, 5344, 5482, 5473, 5685, 5389, 5543, 5645, 5460, 5459, 5549, 5703, 5710, 5345, 5276, 5522, 5689, 5448, 5712, 5262, 5471, 5648, 5627, 5250, 5309, 5406, 5669, 5259, 5647, 5268, 5275, 5611, 5519, 5384, 5353, 5428, 5634, 5688, 5360, 5423, 5723, 5440, 5476, 5586, 5295, 5629, 5281, 5516, 5603 (13 hits)
14	9	1.0	333.0	Yes	5289.5MHz, -63.0dBm	Hop sequence: 5700, 5371, 5662, 5430, 5594, 5431, 5362, 5299, 5413, 5269, 5420, 5292, 5613, 5301, 5264, 5426, 5584, 5644, 5289, 5681, 5581, 5661, 5492, 5427, 5589, 5352, 5724, 5293, 5494, 5575, 5612, 5608, 5605, 5703, 5276, 5287, 5333, 5524, 5450, 5600, 5576, 5707, 5523, 5640, 5546, 5344, 5444, 5551, 5535, 5620, 5273, 5650, 5398, 5519, 5628, 5393, 5389, 5696, 5278, 5675, 5567, 5380, 5274, 5633, 5623, 5639, 5470, 5651, 5667, 5630, 5384, 5634, 5337, 5479, 5421, 5376, 5618, 5306, 5284, 5318, 5390, 5487, 5266, 5718, 5252, 5497, 5648, 5359, 5572, 5512, 5582, 5706, 5440, 5280, 5509, 5290, 5332, 5441, 5453, 5477 (19 hits)
15	9	1.0	333.0	Yes	5299.7MHz, -63.0dBm	Hop sequence: 5349, 5622, 5591, 5643, 5322, 5392, 5623, 5660, 5548, 5572, 5431, 5486, 5317, 5604, 5537, 5568, 5672, 5496, 5439, 5640, 5639, 5342, 5541, 5334, 5713, 5424, 5328, 5616, 5587, 5376, 5415, 5676, 5651, 5269, 5345, 5489, 5325, 5583, 5659, 5338, 5630, 5557, 5296, 5677, 5287, 5250, 5687, 5413, 5707, 5495, 5385, 5260, 5614, 5352, 5682, 5350, 5574, 5655, 5657, 5302, 5286, 5665, 5265, 5720, 5501, 5308, 5457, 5332, 5271, 5324, 5705, 5693, 5592, 5377, 5281, 5590, 5668, 5289, 5566, 5253, 5664, 5724, 5378, 5642, 5298, 5601, 5528, 5274, 5488, 5380, 5555, 5398, 5649, 5276, 5465, 5438, 5520, 5561, 5633, 5535 (20 hits)
16	9	1.0	333.0	Yes	5307.8MHz, -63.0dBm	Hop sequence: 5278, 5296, 5625, 5412, 5589, 5305, 5530, 5312, 5506, 5411, 5566, 5378, 5527, 5519, 5457, 5443, 5676, 5475, 5586, 5636, 5391, 5652, 5535, 5374, 5619, 5639, 5494, 5599, 5472, 5656, 5581, 5271, 5285, 5565, 5633, 5293, 5414, 5314, 5362, 5716, 5648, 5429, 5274, 5435, 5329, 5626, 5644, 5407, 5577, 5376, 5628, 5611, 5307, 5319, 5700, 5667, 5338, 5326, 5634, 5536, 5403, 5538, 5421, 5724, 5684, 5396, 5655, 5260, 5277, 5618, 5595, 5720, 5332, 5380, 5449, 5406, 5341, 5292, 5280, 5379, 5290, 5261, 5432, 5289, 5710, 5308, 5709, 5461, 5697, 5299, 5705, 5645, 5679, 5531, 5585, 5602, 5427, 5583, 5373, 5555 (21 hits)

Table 82 - FCC frequency hopping radar (Type 6) Results 80 MHz (Operating channel 5290MHz, channel 52E)

Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Hopping Sequence
17	9	1.0	333.0	Yes	5317.1MHz, -63.0dBm	Hop sequence: 5548, 5690, 5294, 5669, 5449, 5623, 5636, 5450, 5547, 5442, 5555, 5580, 5311, 5307, 5689, 5640, 5527, 5253, 5704, 5421, 5391, 5374, 5420, 5531, 5610, 5717, 5586, 5394, 5265, 5514, 5475, 5670, 5489, 5321, 5441, 5674, 5663, 5709, 5263, 5413, 5435, 5720, 5568, 5655, 5264, 5707, 5452, 5604, 5616, 5336, 5563, 5499, 5661, 5407, 5500, 5330, 5350, 5274, 5268, 5646, 5588, 5621, 5570, 5283, 5286, 5401, 5331, 5250, 5299, 5560, 5345, 5428, 5486, 5353, 5569, 5710, 5281, 5348, 5510, 5325, 5389, 5418, 5310, 5387, 5380, 5356, 5543, 5297, 5529, 5343, 5259, 5647, 5309, 5599, 5385, 5702, 5722, 5359, 5447, 5381 (19 hits)
18	9	1.0	333.0	Yes	5323.2MHz, -63.0dBm	Hop sequence: 5714, 5541, 5292, 5469, 5665, 5328, 5567, 5721, 5402, 5494, 5428, 5311, 5337, 5294, 5524, 5455, 5331, 5571, 5345, 5697, 5577, 5371, 5312, 5479, 5322, 5486, 5603, 5305, 5519, 5506, 5463, 5425, 5499, 5651, 5477, 5264, 5401, 5353, 5381, 5558, 5461, 5444, 5654, 5462, 5288, 5400, 5598, 5611, 5723, 5487, 5313, 5464, 5363, 5445, 5533, 5286, 5446, 5523, 5659, 5557, 5460, 5648, 5636, 5546, 5673, 5430, 5319, 5421, 5368, 5674, 5702, 5701, 5257, 5318, 5304, 5435, 5406, 5600, 5590, 5493, 5643, 5545, 5657, 5537, 5484, 5671, 5364, 5574, 5647, 5417, 5605, 5394, 5361, 5655, 5515, 5638, 5375, 5668, 5471, 5548 (15 hits)
19	9	1.0	333.0	Yes	5328.6MHz, -63.0dBm	Hop sequence: 5554, 5687, 5677, 5301, 5429, 5562, 5365, 5271, 5343, 5521, 5718, 5572, 5450, 5379, 5255, 5656, 5374, 5553, 5256, 5693, 5286, 5402, 5706, 5396, 5482, 5357, 5377, 5528, 5364, 5419, 5340, 5607, 5371, 5533, 5493, 5584, 5573, 5418, 5497, 5361, 5434, 5346, 5384, 5589, 5412, 5651, 5425, 5453, 5455, 5715, 5526, 5587, 5264, 5428, 5308, 5452, 5269, 5496, 5512, 5492, 5563, 5701, 5489, 5338, 5446, 5611, 5345, 5323, 5690, 5315, 5423, 5600, 5547, 5502, 5661, 5630, 5665, 5320, 5309, 5318, 5633, 5394, 5332, 5680, 5632, 5534, 5322, 5408, 5445, 5399, 5650, 5411, 5373, 5490, 5713, 5596, 5480, 5385, 5285, 5529 (15 hits)
20	9	1.0	333.0	Yes	5251.4MHz, -63.0dBm	Hop sequence: 5631, 5497, 5375, 5298, 5597, 5702, 5373, 5308, 5610, 5581, 5661, 5430, 5385, 5644, 5543, 5599, 5662, 5711, 5674, 5262, 5634, 5501, 5698, 5432, 5464, 5681, 5626, 5278, 5533, 5447, 5346, 5667, 5499, 5418, 5324, 5414, 5616, 5522, 5696, 5632, 5570, 5622, 5318, 5251, 5584, 5332, 5687, 5625, 5586, 5386, 5358, 5590, 5381, 5679, 5304, 5453, 5495, 5628, 5388, 5412, 5630, 5629, 5294, 5492, 5348, 5706, 5643, 5252, 5284, 5675, 5650, 5443, 5303, 5315, 5402, 5719, 5613, 5370, 5508, 5653, 5704, 5600, 5297, 5363, 5564, 5526, 5555, 5521, 5400, 5267, 5462, 5426, 5542, 5673, 5697, 5672, 5607, 5296, 5519, 5691 (15 hits)

Table 82 - FCC frequency hopping radar (Type 6) Results 80 MHz (Operating channel 5290MHz, channel 52E)

Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Hopping Sequence
21	9	1.0	333.0	Yes	5264.2MHz, -63.0dBm	Hop sequence: 5621, 5700, 5677, 5310, 5327, 5692, 5400, 5291, 5679, 5253, 5684, 5576, 5599, 5543, 5283, 5696, 5321, 5485, 5288, 5254, 5262, 5663, 5428, 5550, 5579, 5358, 5357, 5339, 5275, 5498, 5524, 5691, 5706, 5559, 5478, 5563, 5352, 5447, 5695, 5657, 5437, 5489, 5452, 5686, 5380, 5296, 5325, 5467, 5459, 5503, 5475, 5270, 5276, 5460, 5301, 5368, 5548, 5446, 5392, 5430, 5261, 5638, 5340, 5516, 5257, 5710, 5403, 5364, 5260, 5540, 5294, 5309, 5386, 5373, 5517, 5536, 5300, 5323, 5416, 5252, 5539, 5587, 5304, 5542, 5474, 5597, 5595, 5555, 5572, 5589, 5661, 5547, 5609, 5723, 5360, 5650, 5479, 5346, 5610, 5484 (24 hits)
22	9	1.0	333.0	Yes	5270.3MHz, -63.0dBm	Hop sequence: 5725, 5349, 5375, 5268, 5259, 5312, 5436, 5678, 5536, 5367, 5459, 5281, 5489, 5474, 5432, 5386, 5656, 5597, 5301, 5617, 5358, 5712, 5619, 5709, 5258, 5461, 5385, 5669, 5456, 5486, 5582, 5387, 5303, 5626, 5296, 5282, 5555, 5307, 5397, 5524, 5457, 5502, 5495, 5428, 5641, 5369, 5685, 5513, 5368, 5556, 5483, 5354, 5357, 5326, 5578, 5692, 5361, 5337, 5724, 5561, 5455, 5360, 5490, 5569, 5624, 5579, 5545, 5611, 5434, 5535, 5563, 5442, 5567, 5548, 5612, 5532, 5439, 5601, 5527, 5433, 5504, 5639, 5379, 5726, 5549, 5403, 5686, 5253, 5391, 5269, 5421, 5406, 5663, 5673, 5480, 5340, 5650, 5413, 5371, 5318 (14 hits)
23	9	1.0	333.0	Yes	5271.8MHz, -63.0dBm	Hop sequence: 5530, 5616, 5453, 5637, 5485, 5460, 5666, 5667, 5534, 5293, 5361, 5612, 5684, 5641, 5449, 5508, 5722, 5674, 5496, 5365, 5493, 5417, 5579, 5444, 5465, 5611, 5510, 5455, 5253, 5330, 5313, 5618, 5499, 5690, 5691, 5647, 5531, 5680, 5271, 5472, 5488, 5592, 5299, 5267, 5631, 5583, 5495, 5692, 5259, 5427, 5687, 5374, 5438, 5720, 5552, 5492, 5498, 5550, 5375, 5283, 5387, 5323, 5320, 5619, 5445, 5648, 5360, 5526, 5481, 5430, 5538, 5325, 5656, 5717, 5364, 5381, 5454, 5660, 5458, 5617, 5515, 5567, 5703, 5576, 5414, 5332, 5479, 5384, 5287, 5404, 5357, 5681, 5711, 5298, 5418, 5308, 5565, 5463, 5595, 5254 (15 hits)
24	9	1.0	333.0	Yes	5276.6MHz, -63.0dBm	Hop sequence: 5674, 5294, 5391, 5626, 5274, 5689, 5284, 5546, 5317, 5288, 5507, 5471, 5603, 5306, 5503, 5539, 5293, 5524, 5472, 5377, 5540, 5537, 5604, 5556, 5332, 5358, 5330, 5305, 5387, 5427, 5327, 5683, 5681, 5534, 5301, 5296, 5389, 5569, 5582, 5320, 5444, 5434, 5418, 5652, 5411, 5606, 5708, 5276, 5634, 5312, 5362, 5351, 5545, 5321, 5359, 5287, 5302, 5365, 5383, 5408, 5278, 5268, 5381, 5551, 5260, 5697, 5512, 5258, 5663, 5585, 5609, 5496, 5557, 5517, 5398, 5335, 5679, 5416, 5488, 5257, 5379, 5463, 5385, 5625, 5451, 5579, 5250, 5692, 5682, 5384, 5310, 5531, 5722, 5709, 5355, 5535, 5662, 5375, 5670, 5583 (23 hits)

Table 82 - FCC frequency hopping radar (Type 6) Results 80 MHz (Operating channel 5290MHz, channel 52E)

Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Hopping Sequence
25	9	1.0	333.0	Yes	5286.5MHz, -63.0dBm	Hop sequence: 5257, 5655, 5403, 5439, 5503, 5597, 5646, 5387, 5426, 5354, 5471, 5692, 5525, 5627, 5540, 5293, 5281, 5446, 5518, 5708, 5495, 5522, 5452, 5460, 5411, 5330, 5331, 5301, 5496, 5353, 5666, 5561, 5443, 5494, 5548, 5653, 5435, 5407, 5383, 5703, 5639, 5415, 5343, 5472, 5412, 5349, 5381, 5704, 5528, 5365, 5527, 5487, 5630, 5423, 5468, 5388, 5267, 5371, 5560, 5550, 5557, 5434, 5628, 5308, 5404, 5329, 5473, 5694, 5429, 5501, 5464, 5395, 5469, 5265, 5461, 5311, 5690, 5382, 5315, 5486, 5716, 5614, 5384, 5674, 5504, 5511, 5339, 5321, 5538, 5665, 5318, 5546, 5563, 5559, 5516, 5357, 5576, 5705, 5558, 5290 (12 hits)
26	9	1.0	333.0	Yes	5291.0MHz, -63.0dBm	Hop sequence: 5688, 5590, 5524, 5613, 5591, 5369, 5568, 5324, 5654, 5647, 5694, 5259, 5534, 5676, 5573, 5509, 5564, 5662, 5407, 5551, 5408, 5687, 5463, 5711, 5700, 5697, 5442, 5632, 5500, 5514, 5686, 5721, 5520, 5633, 5513, 5303, 5716, 5495, 5655, 5388, 5459, 5543, 5328, 5627, 5279, 5606, 5589, 5480, 5516, 5256, 5503, 5299, 5393, 5363, 5278, 5309, 5421, 5335, 5522, 5493, 5618, 5670, 5450, 5592, 5251, 5712, 5507, 5555, 5630, 5599, 5663, 5470, 5492, 5698, 5673, 5326, 5349, 5456, 5359, 5344, 5371, 5478, 5314, 5581, 5428, 5360, 5417, 5365, 5540, 5353, 5466, 5443, 5384, 5671, 5401, 5519, 5661, 5710, 5398, 5415 (11 hits)
27	9	1.0	333.0	Yes	5298.1MHz, -63.0dBm	Hop sequence: 5274, 5273, 5470, 5501, 5602, 5260, 5716, 5648, 5430, 5582, 5639, 5682, 5337, 5263, 5256, 5439, 5442, 5299, 5434, 5300, 5573, 5726, 5257, 5423, 5290, 5637, 5614, 5379, 5375, 5581, 5719, 5666, 5450, 5658, 5672, 5567, 5633, 5619, 5646, 5296, 5271, 5537, 5383, 5440, 5467, 5656, 5270, 5522, 5707, 5374, 5604, 5591, 5709, 5254, 5338, 5258, 5402, 5304, 5359, 5655, 5386, 5488, 5326, 5288, 5287, 5565, 5372, 5600, 5523, 5385, 5253, 5303, 5705, 5286, 5405, 5458, 5279, 5449, 5697, 5363, 5322, 5475, 5441, 5483, 5480, 5722, 5514, 5365, 5284, 5644, 5524, 5687, 5499, 5684, 5289, 5641, 5608, 5557, 5309, 5465 (26 hits)
28	9	1.0	333.0	Yes	5309.6MHz, -63.0dBm	Hop sequence: 5381, 5331, 5660, 5634, 5358, 5693, 5322, 5599, 5332, 5579, 5460, 5515, 5669, 5687, 5334, 5282, 5431, 5689, 5345, 5563, 5580, 5598, 5290, 5293, 5577, 5570, 5516, 5502, 5362, 5542, 5268, 5438, 5528, 5342, 5320, 5694, 5659, 5544, 5651, 5309, 5490, 5536, 5556, 5646, 5443, 5573, 5276, 5427, 5319, 5408, 5444, 5571, 5437, 5434, 5421, 5475, 5514, 5274, 5533, 5337, 5679, 5624, 5394, 5329, 5700, 5696, 5251, 5576, 5266, 5710, 5697, 5593, 5470, 5529, 5572, 5688, 5562, 5256, 5628, 5622, 5712, 5465, 5254, 5517, 5272, 5297, 5518, 5348, 5456, 5489, 5635, 5503, 5428, 5373, 5568, 5278, 5294, 5722, 5611, 5318 (18 hits)

Table 82 - FCC frequency hopping radar (Type 6) Results 80 MHz (Operating channel 5290MHz, channel 52E)						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Frequency and Level	Hopping Sequence
29	9	1.0	333.0	Yes	5313.0MHz, -63.0dBm	Hop sequence: 5574, 5593, 5719, 5673, 5724, 5616, 5465, 5356, 5569, 5262, 5598, 5345, 5656, 5595, 5330, 5725, 5623, 5625, 5375, 5509, 5530, 5615, 5635, 5408, 5532, 5339, 5480, 5319, 5533, 5423, 5487, 5508, 5553, 5524, 5580, 5643, 5557, 5317, 5460, 5665, 5674, 5537, 5639, 5428, 5472, 5311, 5320, 5341, 5556, 5642, 5594, 5417, 5331, 5302, 5506, 5663, 5591, 5438, 5476, 5628, 5431, 5484, 5338, 5351, 5436, 5448, 5260, 5418, 5632, 5558, 5514, 5679, 5409, 5250, 5268, 5534, 5510, 5517, 5314, 5702, 5617, 5269, 5649, 5687, 5374, 5382, 5300, 5629, 5670, 5279, 5603, 5452, 5494, 5474, 5443, 5490, 5515, 5367, 5459, 5413 (12 hits)
30	9	1.0	333.0	Yes	5320.3MHz, -63.0dBm	Hop sequence: 5491, 5480, 5631, 5409, 5474, 5488, 5278, 5645, 5493, 5275, 5434, 5267, 5424, 5336, 5418, 5598, 5563, 5359, 5490, 5444, 5461, 5370, 5485, 5726, 5607, 5680, 5703, 5451, 5545, 5636, 5330, 5522, 5675, 5556, 5597, 5355, 5724, 5657, 5417, 5302, 5425, 5326, 5260, 5279, 5263, 5554, 5470, 5380, 5654, 5392, 5531, 5612, 5429, 5515, 5310, 5271, 5630, 5587, 5504, 5581, 5373, 5296, 5442, 5324, 5633, 5588, 5592, 5584, 5573, 5638, 5286, 5719, 5311, 5303, 5702, 5476, 5628, 5320, 5542, 5572, 5339, 5665, 5298, 5454, 5458, 5452, 5656, 5599, 5353, 5420, 5289, 5625, 5259, 5614, 5411, 5508, 5297, 5384, 5400, 5713 (20 hits)

Appendix C Test Data – Channel Availability Check

5250- 5350 MHz, 5470 – 5725 MHz

The Zero Wait DFS CAC does not transmit any data so no plot can be captured; therefore, test was performed using a log from the EUT. The first part of log indicates the timing of the CAC. The second part of the log shows the unit detected radar that was applied within 2 seconds of the start of the CAC and the EUT moved to different channel. The third part of the log shows the EUT detected radar that was applied 58 seconds after the start of the CAC and again the EUT moved to different channel. The last part of the log shows the EUT detected radar that was applied after CAC ended. The highlighted text is provided for clarification and is not part of the EUT log file content.

ZWDFS – CAC Timing

Zero Wait DFS mode enabled
[290.264342] aruba_agile_dfs_req: [Agile_DFS] Command - Start Off-Channel CAC. seq_num:1 ch:52 ch_ext:0 center_freq:5260
[290.264373] dfs_start_agile_engine: [Agile_DFS] Off-Channel CAC Started. center_freq:5260 chwidth:20 timeout:60000 dfs_idx:0
[350.405661] dfs_mark_precac_done_for_freq: [Agile_DFS] Mark Pre-CAC done. node_freq:5250 center_ch_freq:5260 chan_freq[0]:5260

Completed ZWDFS on channel 52. 350.405661-290.264342 = 60.14 second

ZWDFS - Radar at the beginning of CAC

System starts Zero Wait CAC on channel 52*
[292.837092] aruba_agile_dfs_req: [Agile_DFS] Command - Start Off-Channel CAC. seq_num:1 ch:52 ch_ext:0 center_freq:5260
[292.837119] dfs_start_agile_engine: [Agile_DFS] Off-Channel CAC Started. center_freq:5260 chwidth:20 timeout:60000 dfs_idx:0

Radar applied and detected ** radar applied at ~2s after start of CAC**
[294.738956] Radar found on Zero_Wait_DFS channel=52, freq=5260 MHz, filter_id=0
[294.738972] channel center_freq=5260 MHz, freq_offset=0 MHz
[294.739024] aruba_notify_radar_detected: asap_notify_radar_detected ieee_chan=52 filter_id=0
[294.739557] dfs_process_ocac_complete: [Agile_DFS] Off-Channel CAC Stopped. dfs_index:0

System starts new ZWDFS CAC on channel 56
[294.838587] aruba_agile_dfs_req: [Agile_DFS] Command - Start Off-Channel CAC. seq_num:2 ch:56 ch_ext:0 center_freq:5280
[294.838612] dfs_start_agile_engine: [Agile_DFS] Off-Channel CAC Started. center_freq:5280 chwidth:20 timeout:60000 dfs_idx:0
[354.885609] dfs_mark_precac_done_for_freq: [Agile_DFS] Mark Pre-CAC done. node_freq:5250 center_ch_freq:5280 chan_freq[0]:5280
System completes new ZWDFS CAC on channel 56 after 60 seconds

ZWDFS - Radar at the end of CAC

System starts ZWCAC on channel 52*
[164.164942] aruba_agile_dfs_req: [Agile_DFS] Command - Start Off-Channel CAC. seq_num:1 ch:52 ch_ext:0 center_freq:5260
[164.164979] dfs_start_agile_engine: [Agile_DFS] Off-Channel CAC Started. center_freq:5260 chwidth:20 timeout:60000 dfs_idx:0

Radar applied and detected*
[221.307339] Radar found on Zero_Wait_DFS channel=52, freq=5260 MHz, filter_id=0
[221.307356] channel center_freq=5260 MHz, freq_offset=0 MHz
[221.307406] aruba_notify_radar_detected: asap_notify_radar_detected ieee_chan=52 filter_id=0
** radar applied at ~58s after start of CAC

System starts new ZWDFS CAC on channel 56
[221.307951] dfs_process_ocac_complete: [Agile_DFS] Off-Channel CAC Stopped. dfs_index:0
[221.803890] aruba_agile_dfs_req: [Agile_DFS] Command - Start Off-Channel CAC. seq_num:2 ch:56 ch_ext:0 center_freq:5280
[221.803914] dfs_start_agile_engine: [Agile_DFS] Off-Channel CAC Started. center_freq:5280 chwidth:20 timeout:60000 dfs_idx:0
[281.925627] dfs_mark_precac_done_for_freq: [Agile_DFS] Mark Pre-CAC done. node_freq:5250 center_ch_freq:5280 chan_freq[0]:5280
**System completes new Zero Wait DFS CAC on channel 56 after 60 seconds

ZWDFS - Radar after the end of CAC

**System Starts ZWDFS CAC on channel 52

[267.216918] aruba_agile_dfs_req: [Agile_DFS] Command - Start Off-Channel CAC. seq_num:1 ch:52 ch_ext:0 center_freq:5260
[267.216945] dfs_start_agile_engine: [Agile_DFS] Off-Channel CAC Started. center_freq:5260 chwidth:20 timeout:60000 dfs_idx:0

**System completed ZWDFS CAC on channel 52

[327.365519] dfs_mark_precac_done_for_freq: [Agile_DFS] Mark Pre-CAC done. node_freq:5250 center_ch_freq:5260 chan_freq[0]:5260

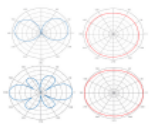
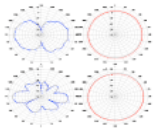
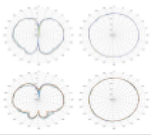
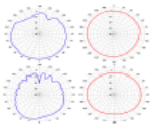
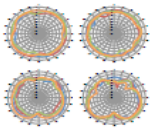
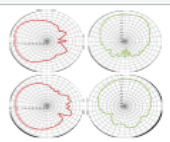
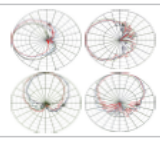
**Radar applied ~24s after CAC completed on channel 52

[351.970436] Radar found on Zero_Wait_DFS channel=52, freq=5260 MHz, filter_id=22
[351.970454] channel center_freq=5260 MHz, freq_offset=0 MHz
[351.970525] aruba_notify_radar_detected: asap_notify_radar_detected ieee_chan=52 filter_id=22
[351.970566] aruba_agile_dfs_unmark_precac_done_for_freq: [Agile_DFS] Clear Pre-CAC done. node_freq:5250 chan_freq[0]:5260
[351.971066] dfs_process_ocac_complete: [Agile_DFS] Off-Channel CAC Stopped. dfs_index:0

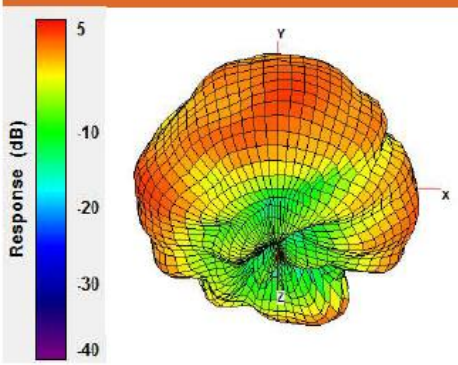
**System starts new ZWDFS CAC on channel 56

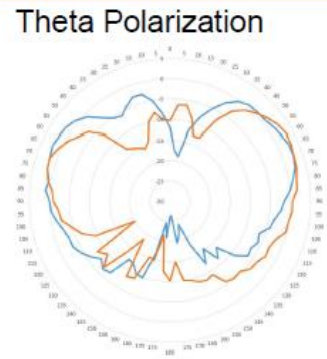
[352.816935] aruba_agile_dfs_req: [Agile_DFS] Command - Start Off-Channel CAC. seq_num:2 ch:56 ch_ext:0 center_freq:5280
[352.816962] dfs_start_agile_engine: [Agile_DFS] Off-Channel CAC Started. center_freq:5280 chwidth:20 timeout:60000 dfs_idx:0

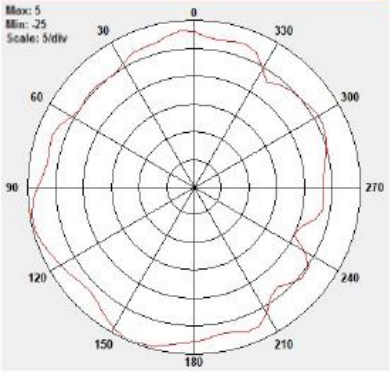
Appendix D Antenna Specification

MODEL	TYPE	BAND(S)	PEAK GAIN	POLARIZATION & ELEMENT TYPE	BEAMWIDTH (DEGREES)		VSWR	MAX INPUT POWER	CONNECTOR(S)	DIMENSIONS (MM)	OPERATING TEMPERATURE	ANTENNA PATTERNS
					H-PLANE	E-PLANE						
AP-ANT-1W 	Omnidirectional	2.400 GHz - 2.500 GHz	3.8 dBi	Vertical, linear	360	50	< 2.0 : 1	2 watts	1x RP-SMA/m, direct-mount	127 x 39 x 19	-10° C to +55° C	
		4.900 GHz - 5.875 GHz	5.8 dBi		360	25						
AP-ANT-1Y 	Dual band omni	2.400 GHz - 2.500 GHz	3.0 dBi	Vertical omni	360	50	< 2.0 : 1	10 watts	1x RP-SMA/m, pigtail cable	245 (h)	-40° C to +70° C	
		5.150 GHz - 5.875 GHz	6.0 dBi		360	20						
AP-ANT-20W 	Dual-band omni, direct mount	2.400 GHz - 2.500 GHz	2.0 dBi	Linear, vertical. Omnidirectional patterns at all frequencies.	360	80	< 2.0 : 1	2 watts	1xRP-SMA with articulating mount	79 x 35.3 x 10 with articulating mount at 90 degree angle 102 x 14.8 x 10 fully extended	-10° C to +55° C (+14° F to +131° F)	
		4.900 GHz - 5.875 GHz	2.0 dBi									
AP-ANT-13B 	Downtilt omni	2.400 GHz - 2.500 GHz	2.3 dBi	Vertical, linear downtilt	360	120	< 2.0 : 1	2 watts	1x RP-SMA/m, pigtail cable	55 x 55 x 16	-40° C to +70° C	
		4.900 GHz - 5.900 GHz	4.0 dBi									
AP-ANT-4O 	Compact and discreet dual-band 4x4 antenna for ceiling mount, delivering omnidirectional downtilt coverage	2.400 GHz - 2.500 GHz	4.0 dBi	Vertical, linear	360	100	< 2.0 : 1	10 watts	75cm RP-SMA terminated pigtails	17 (diameter) x 32 (height)	-30° C to +70° C	
		4.900 GHz - 5.900 GHz	5.0 dBi									
AP-ANT-4S 	AP-ANT-4S is a multi-polarized antenna with nominal 90° H x 90° V beamwidths. This antenna is well suited for 2.4 and 5 GHz sector coverage for access.	2.4 GHz - 2.5 GHz	4.5 dBi	V, and Slant +/- 45°	90	90	2.1 max	6 watts	30 cm RP-SMA pigtails x4	200 x 200 x 40	-40° C to +65° C	
		4.9 GHz - 6.0 GHz	5.5 dBi									
AP-ANT-4B 	Multipolarized 4x4 8.5dBi antenna for dual band sector coverage	2.4 GHz - 2.5 GHz	8.5 dBi	+/- 45 degrees, +/- 135 degrees	70	70	2.1 max	6 watts	30cm RP-SMA terminated pigtails	190 x 190 x 44 (excludes wall fix flanges)	-45° C to +65° C	
		4.9 GHz - 6.0 GHz			56	56						

Antenna 1 at 5500 MHz (Dual band vertical)







Theta = 60 cut

	5.18 GHz	5.5 GHz	5.875 GHz
Peak Gain (dBi)	5.0	4.5	5.0
Efficiency (%)	74	61	56

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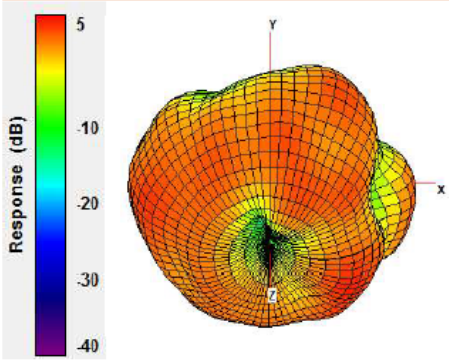
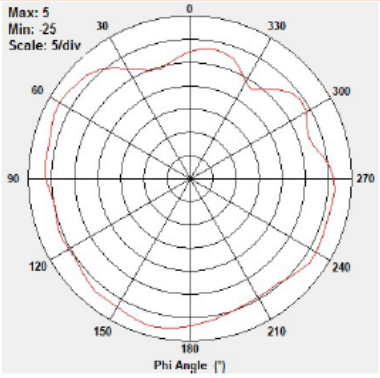
Antenna 2 at 5.5 GHz (Dual band horizontal)





Theta = 60 cut

	5.18 GHz	5.5 GHz	5.875 GHz
Peak Gain (dBi)	4.9	4.2	4.8
Efficiency (%)	75	60	66

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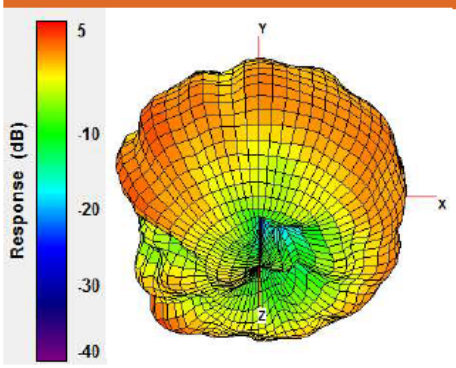
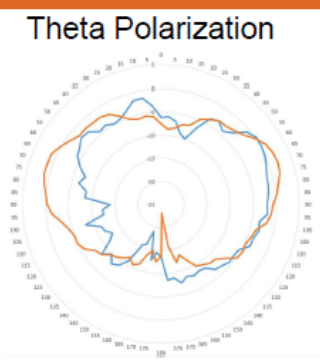
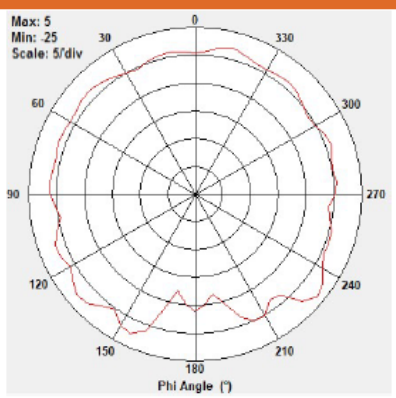
Antenna 3 Patterns 5.5 GHz (Dual band vertical)







	5.18 GHz	5.5 GHz	5.875 GHz
Peak Gain (dBi)	5.0	4.9	5.4
Efficiency (%)	68	57	83

Theta = 60 cut

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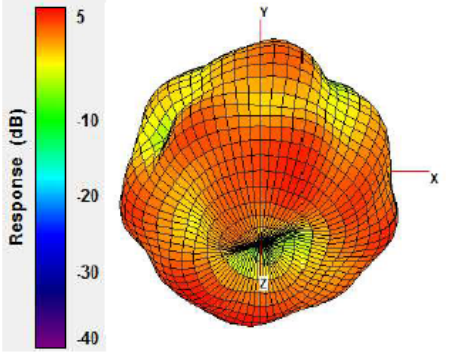
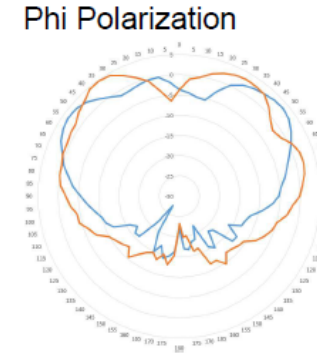
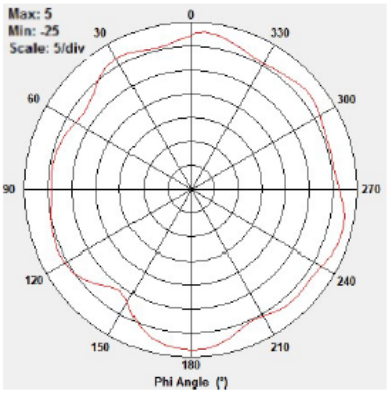
Antenna 4 at 5.5 GHz (Dual band horizontal)







	5.18 GHz	5.5 GHz	5.875 GHz
Peak Gain (dBi)	5.1	5.0	4.9
Efficiency (%)	67	68	50

Theta = 60 cut

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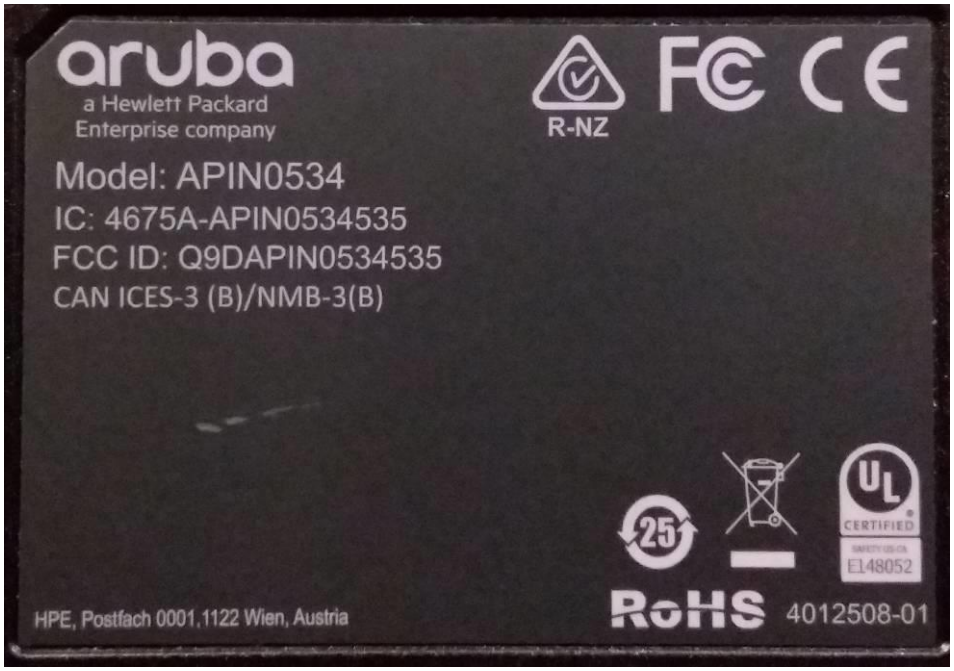
Uncorrelated Array Gain

Uncorrelated array gain = 10 log[(10G1/10 + 10G2/10 + … + 10GN/10)/N] dBi

Freq	Max
2400	1.67
2450	1.91
2485	1.67
5180	3.48
5500	2.54
5875	2.38

Appendix E Test Configuration Photograph(s)



End of Report

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