

TEST REPORT

Test Report No. : UL-RPT-RP14647518-1616A

Manufacturer : Eseye Design Limited
Model No. : Hera604v6
FCC ID : 2AASBHERAQ4029
Technology : WLAN (802.11 a/n/ac)
Test Standard(s) : FCC Part 15.407(h)(2)

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2. The results in this report apply only to the sample(s) tested.
3. The sample tested is in compliance with the above standard(s).
4. The test results in this report are traceable to the national or international standards.
5. Version 2.0 supersedes all previous versions.

Date of Issue:

14 April 2026

Checked by:



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1. Customer Information

Company Name:	Eseye Design Limited
Address:	20 Nugent Road Guildford GU2 7AF United Kingdom

2. Summary of Testing

2.1. General Information

Specification Reference:	47CFR15.407
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications): Part 15 Subpart E (Unlicensed National Information Infrastructure Devices) - Section 15.407
Site Registration:	685609
Lab Designation No.:	UK2011
Location of Testing:	Unit 3 Horizon, Wade Road, Kingsland Business Park, Basingstoke, Hampshire, RG24 8AH, United Kingdom
Test Dates:	04 March 2024 to 07 March 2024

2.2. Summary of Test Results

FCC Reference (47CFR)	Measurement	Result
Part 15.407(h)(2)	U-NII Detection Bandwidth	
Part 15.407(h)(2)(ii)	Initial Channel Availability Check Time	
Part 15.407(h)(2)(ii)	Radar Burst at the Beginning of the Channel Availability Check Time	
Part 15.407(h)(2)(ii)	Radar Burst at the End of the Channel Availability Check Time	
Part 15.407(h)(2)(iii)	Channel Closing Transmission Time and Channel Move Time	
Part 15.407(h)(2)(iv)	Non-occupancy Period	
Part 15.407(h)(2)	Statistical Performance Check – Short Pulse Radar Types 1-4	
Part 15.407(h)(2)	Statistical Performance Check – Long Pulse Radar Type 5	
Part 15.407(h)(2)	Statistical Performance Check – Frequency Hopping Radar Type 6	

Key to Results

 = Complied  = Did not comply

Note(s):

1. The EUT operates in the 5250-5350 MHz, 5470-5600 MHz and 5650- 5725 MHz bands. It was tested operating on representative channels in the 5470-5600 MHz band.
2. The manufacturer confirms that information regarding the parameters of the radar waveforms is not available to, or configurable by the end user.

2.3. Methods and Procedures

Reference:	FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02, April 8, 2016
Title:	Compliance Measurement Procedures for Unlicensed-National Information Infrastructure Devices Operating in the 5250-5350 MHz and 5470-5725 MHz Bands Incorporating Dynamic Frequency Selection
Reference:	FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Title:	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E

2.4. Deviations from the Test Specification

For the measurements contained within this test report, there were no deviations or exclusions from the test specification identified above.

3. Equipment Under Test (EUT)

3.1. Identification of Equipment Under Test (EUT)

Brand Name:	Eseye
Model Name or Number:	Hera604v6
Test Sample Serial Number:	04425600823330100022 (Conducted Sample #1)
Hardware Version:	EPCB256003
Software Version:	0.9.2
FCC ID:	2AASBHERAQ4029
Date of Receipt:	15 January 2024

3.2. Description of EUT

The equipment under test was a Cellular / WLAN wireless router.

3.3. Modifications Incorporated in the EUT

No modifications were made to the EUT during testing.

3.4. Additional Information Related to Testing

Technology Tested:	Unlicensed National Information Infrastructure (U-NII)	
Type of Unit:	Transceiver	
Modulation Type:	BPSK, QPSK, 16QAM, 64QAM, 256QAM	
Data rates:	802.11a	6, 9, 12, 18, 24, 36, 48 & 54 Mbit/s (SISO or MIMO)
	802.11n HT20	MCS0 to MCS7 (1 spatial stream), (SISO, or MIMO with CDD/STBC) MCS8 to MCS15 (2 spatial streams) (MIMO SDM)
	802.11n HT40	MCS0 to MCS7 (1 spatial stream), (SISO, or MIMO with CDD/STBC) MCS8 to MCS15 (2 spatial streams) (MIMO SDM)
	802.11ac VHT20	MCS0 to MCS8 (1 or 2 spatial streams) (SISO, or MIMO with CDD/STBC)
	802.11ac VHT40	MCS0 to MCS9 (1 or 2 spatial streams) (SISO, or MIMO with CDD/STBC)
	802.11ac VHT80	MCS0 to MCS9 (1 or 2 spatial streams) (SISO, or MIMO with CDD/STBC)
Power Supply Requirement:	Nominal	12.0 V
Transmit & Receive Frequency Range:	5250 MHz to 5350 MHz and 5470 MHz to 5725 MHz	
Channel Spacing:	20 MHz	
Transmit Channel Tested:	Channel Number	Channel Frequency (MHz)
	100	5500
Channel Spacing:	40 MHz	
Transmit Channel Tested:	Channel Number	Channel Frequency (MHz)
	102	5510
Channel Spacing:	80 MHz	
Transmit Channel Tested:	Channel Number	Channel Frequency (MHz)
	106	5530

3.5. Support Equipment

The following support equipment was used to exercise the EUT during testing:

Description:	Station / Companion Device
Brand Name:	Eseye
Model Name or Number:	Hera 604
Serial Number:	04425600823330100051

Description:	AC to DC Power Supply (Station)
Brand Name:	Power Solve
Model Name or Number:	FJ-SW1201250N
Serial Number:	PIJ15-12-13ES

Description:	AC to DC Power Supply (Master)
Brand Name:	Power Solve
Model Name or Number:	FJ-SW1201250N
Serial Number:	PIJ15-12-13ES

Description:	USB A to Micro USB. Quantity 2.
Brand Name:	Not Marked or Stated
Model Name or Number:	Not Marked or Stated
Serial Number:	Not Marked or Stated

Description:	Support Laptop
Brand Name:	Lenovo
Model Name or Number:	L480
Serial Number:	PF1EHZPL

Description:	Support Laptop
Brand Name:	Lenovo
Model Name or Number:	L470
Serial Number:	PF10T3HL

Description:	Support Laptop
Brand Name:	Lenovo
Model Name or Number:	L480
Serial Number:	PF1EHZQ0

4. Operation and Monitoring of the EUT during Testing

4.1. Operating Modes

The EUT was tested in the following operating mode(s):

- For U-NII Detection Bandwidth and Statistical Performance Check tests, the EUT was set to a DFS test mode via a service login. In this mode it did not perform the full channel move and blacklisting of the channel when detecting a radar. Instead, the EUT displayed radar detections in the terminal window and continued the current operation.
- For all other DFS tests, the EUT was run in the standard end-user mode configured via the web interface with no test modes enabled.

4.2. Configuration and Peripherals

The EUT was tested in the following configuration(s):

- All measurements were made using a conducted configuration.
- A laptop PC was used to configure the EUT parameters via the chipset manufacturers development tool. This was run from within a terminal application on the support laptop. The laptop was connected to the EUT via Ethernet and serial connections.
- The EUT's serial interface was used to report radar detection events.
- Further details of the conducted test network and set-up can be found in Appendix 2 of this test report.
- The EUT had 2 antenna ports on each radio module. These were connected to the test network via a 2-way splitter/combiner. Due to subtle differences in path loss from the splitter/combiner, the radar level was calibrated at the EUT antenna ports via the path with least loss, so the EUT would be tested in the worst-case scenario (other ports ≤ 0.2 dB below the required detection threshold).
- The declared antenna gain of 3.6 dBi was used to calculate the radar level to be presented at the antenna ports:
 - $-64 \text{ dBm} + 3.6 \text{ dBi antenna gain} + 1 \text{ dB to account for variations} = -59.4 \text{ dBm radar level at antenna ports.}$
- UDP test data was streamed from the Master to the Client device using iPerf bandwidth testing tool. This was set to 15 Mbit/s for 20 MHz, 30 Mbit/s for 40 MHz and, 63 Mbit/s for 80 MHz channels respectively. The channel loading was measured as 19.2% for 20 MHz, 17.9% for 40 MHz and 18.9% for 80 MHz, therefore meeting the channel loading requirement of $>17\%$ in KDB 905462 D02 Section 7.7(c).
- The EUT was powered by an AC to DC power supply connected to a 230 VAC 50 Hz mains supply for all measurements.

KDB 905462 D02 Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

5. Measurements, Examinations and Derived Results

5.1. General Comments

Measurement uncertainties are evaluated in accordance with current best practice. Our reported expanded uncertainties are based on standard uncertainties, which are multiplied by an appropriate coverage factor to provide a statistical confidence level of approximately 95%. Please refer to *Section 6 Measurement Uncertainty* for details.

In accordance with UKAS requirements all the measurement equipment is on a calibration schedule. All equipment was within the calibration period on the date of testing.

5.2. Test Results

5.2.1. U-NII Detection Bandwidth

Test Summary:

Test Engineers:	Raghavendra Katti & Matthew Botfield	Test Date:	04 March 2024
Test Sample Serial Number:	04425600823330100022		

FCC Reference:	Part 15.407(h)(2)
Test Method Used:	KDB 905462 D02 Section 7.8.1 and Notes below

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	39

Notes:

1. In accordance with KDB 905462 D02 Table 2, the U-NII Detection Bandwidth test was performed on all supported channel bandwidths.
2. The 99% bandwidth was measured in accordance with FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01, Section II D.
3. Tests were performed using a type 0 radar (as stated in KDB 905462 D02 Table 4, Note 3) and the radar detection threshold used was as calculated in Section 4.2 of this test report.
4. KDB 905462 D02 Section 7.8.1 requests testing detection bandwidth at 1 MHz steps near the channel edges until the entire 99% bandwidth is covered. However, due to small channel bandwidths or 99% bandwidths of the EUT, smaller steps were used at the channel edge extremities on all supported channel bandwidths.

U-NII Detection Bandwidth (continued)**Results: 20 MHz Master**

Channel Bandwidth (MHz)	99% Bandwidth (MHz)	U-NII Detection Bandwidth $F_H - F_L$ (MHz)	Result
20	18.539	≥ 20	Complied

Measurement Offsets from centre frequency (MHz)	Detection attempts successful from 10 attempts at each frequency	Detection Rate (%)
-10 (F_L)	10	100
-5	10	100
0 (5500 MHz)	10	100
+5	10	100
+10 (F_H)	10	100

The EUT exceeded the requirement of $\geq 90\%$ detection probability over 100% of the measured 99% bandwidth.

Results: 40 MHz Master

Channel Bandwidth (MHz)	99% Bandwidth (MHz)	U-NII Detection Bandwidth $F_H - F_L$ (MHz)	Result
40	36.326	≥ 40	Complied

Measurement Offsets from centre frequency (MHz)	Detection attempts successful from 10 attempts at each frequency	Detection Rate (%)
-20 (F_L)	10	100
-15	10	100
-10	10	100
-5	10	100
0 (5510 MHz)	10	100
+5	10	100
+10	10	100
+15	10	100
+20 (F_H)	10	100

The EUT exceeded the requirement of $\geq 90\%$ detection probability over 100% of the measured 99% bandwidth.

U-NII Detection Bandwidth (continued)**Results: 80 MHz Master**

Channel Bandwidth (MHz)	99% Bandwidth (MHz)	U-NII Detection Bandwidth $F_H - F_L$ (MHz)	Result
80	76.068	≥ 80	Complied

Measurement Offsets from centre frequency (MHz)	Detection attempts successful from 10 attempts at each frequency	Detection Rate (%)
-40 (F_L)	10	100
-35	10	100
-30	10	100
-25	10	100
-20	10	100
-15	10	100
-10	10	100
-5	10	100
0 (5530 MHz)	10	100
+5	10	100
+10	10	100
+15	10	100
+20	10	100
+25	10	100
+30	10	100
+35	10	100
+40 (F_H)	10	100

The EUT exceeded the requirement of $\geq 90\%$ detection probability over 100% of the measured 99% bandwidth.

Limits:**Part 15.407(h)(2)**

The device must sense for radar signals at 100 percent of its emission bandwidth.

KDB 905462 D02 Table 4: DFS Response Requirement Values

Parameter	Value
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.	

5.2.2. Initial Channel Availability Check Time**Test Summary:**

Test Engineers:	Raghavendra Katti & Matthew Botfield	Test Date:	05 March 2024
Test Sample Serial Number:	04425600823330100022		

FCC Reference:	Part 15.407(h)(2)(ii)
Test Method Used:	KDB 905462 D02 Section 7.8.2.1 and Notes below

Environmental Conditions:

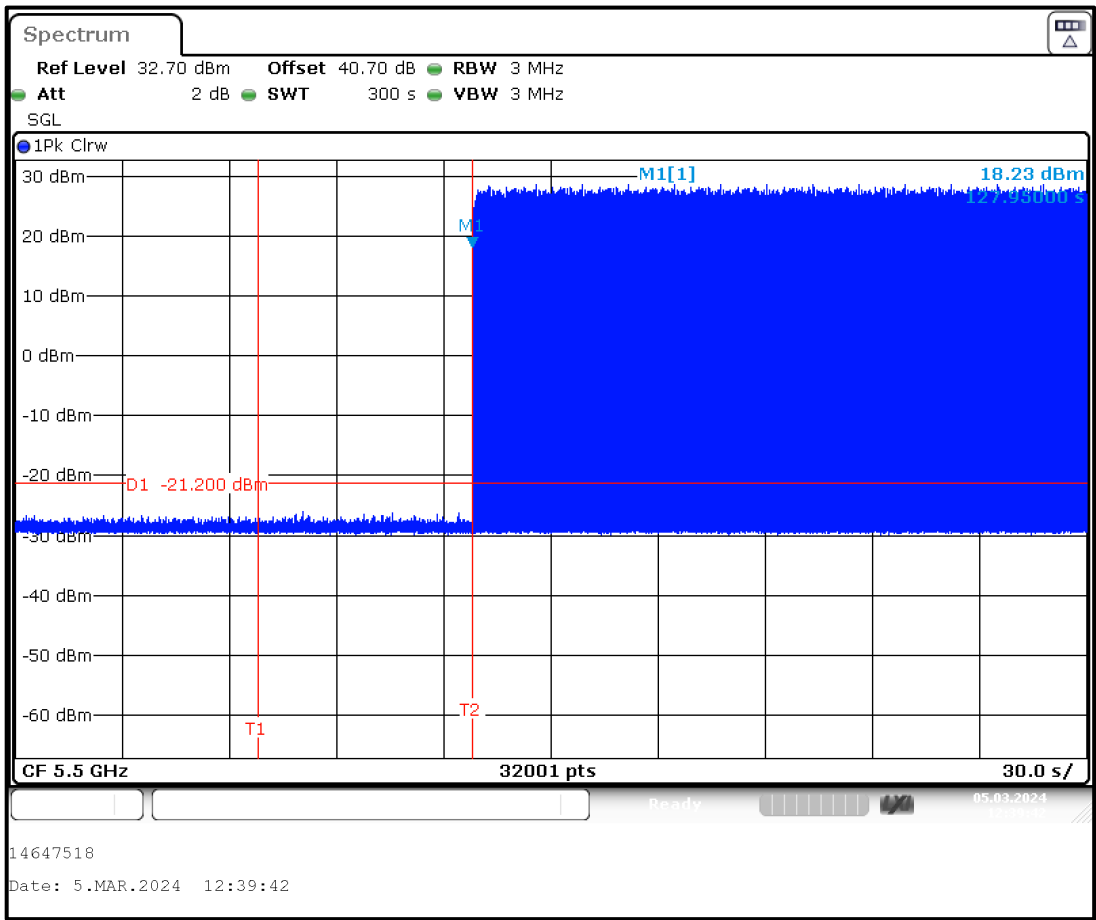
Temperature (°C):	23
Relative Humidity (%):	36

Notes:

1. In accordance with KDB 905462 D02 Table 2, the Initial Channel Availability Check test can be performed on any single bandwidth. It was therefore tested only on an 80 MHz channel bandwidth.
2. The EUT Master device was powered on at the same time as the sweep was triggered. 30,001 sweep points were used on the spectrum analyser. The measurement was performed with the spectrum analyser in zero span and the 30,001 data points exported as an ASCII file. The ASCII file was then imported and analysed in Microsoft Excel.
3. No beacon or data transmission was seen from the Master during channel availability check time. The Master did not transmit for 60 seconds. The EUT therefore complies, as shown by the results plot on the following page.
4. The noise floor remained below the -21.2 dBm/MHz (74 dBµV/m at 3m) unintentional radiator limit. This was measured worst-case with a peak detector and 3 MHz RBW in accordance with KDB 905462 D02 Section 7.8.2.1(a).
5. The EUT start up time was measured to be 67.95 seconds

Initial Channel Availability Check Time (continued)

Results: 80 MHz Master



Limits:

Part 15.407(h)(2)(ii)

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

KDB 905462 D02 Table 4: DFS Response Requirement Values

Parameter	Value
Channel Availability Check Time	60 seconds

5.2.3. Radar Burst at the Beginning of the Channel Availability Check Time**Test Summary:**

Test Engineer:	Raghavendra Katti & Matthew Botfield	Test Date:	05 March 2024
Test Sample Serial Number:	04425600823330100022		

FCC Reference:	Part 15.407(h)(2)(ii)
Test Method Used:	KDB 905462 D02 Section 7.8.2.2

Environmental Conditions:

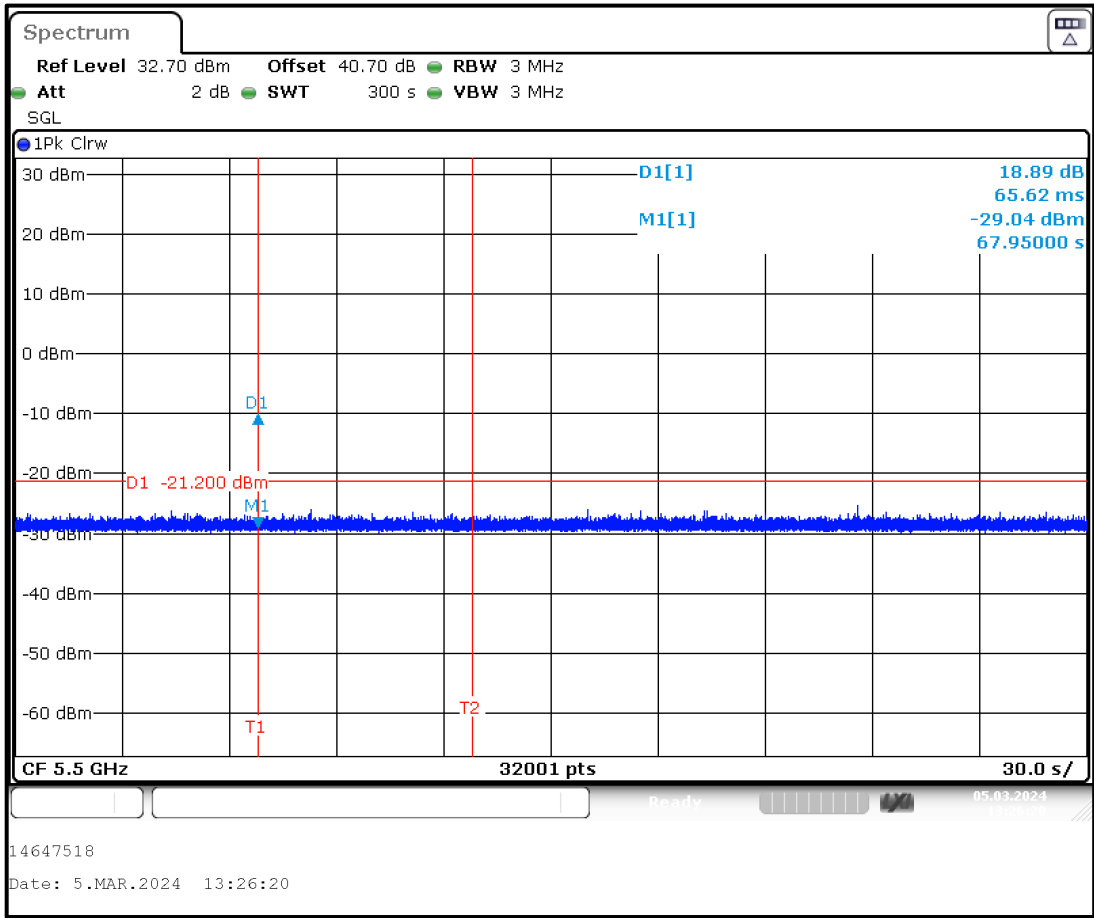
Temperature (°C):	23
Relative Humidity (%):	36

Notes:

1. In accordance with KDB 905462 D02 Table 2, the Initial Channel Availability Check test was performed on any single bandwidth. It was therefore tested only on an 80 MHz channel bandwidth.
2. The radar was fired 68.61 seconds after power on, and therefore 0.07 seconds into the allowed 6 second radar window at the beginning of CAC (power up time shown to be 67.95 seconds during Initial Channel Availability Check test).
3. Observation of Ch_r continued for >2.5 minutes after the radar burst was generated.
4. Tests were performed using a type 0 radar and the radar detection threshold used was as calculated in Section 4.2 of this test report.
5. The radar burst type 0, shown occurring just after the T1 line on the plot on the following page, was detected and no beacon or data transmission seen from the EUT after the end of CAC. Therefore, the CAC starts at the time declared and, in conjunction with the *Radar Burst at the End of the Channel Availability Check Time* test, shows the CAC duration is greater or equal to the 60 second minimum.
6. The noise floor remained below the -21.2 dBm/MHz (74 dB μ V/m at 3m) unintentional radiator limit. This was measured worst-case with a peak detector and 3 MHz RBW in accordance with KDB 905462 D02 Section 7.8.2.1(a).

Radar Burst at the Beginning of the Channel Availability Check Time (continued)

Results: 80 MHz Master



Plot showing the radar at the beginning of CAC

Limits:

Part 15.407(h)(2)(ii)

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

KDB 905462 D02 Table 4: DFS Response Requirement Values

Parameter	Value
Channel Availability Check Time	60 seconds

5.2.4. Radar Burst at the End of the Channel Availability Check Time**Test Summary:**

Test Engineers:	Raghavendra Katti & Matthew Botfield	Test Date:	05 March 2024
Test Sample Serial Number:	04425600823330100022		

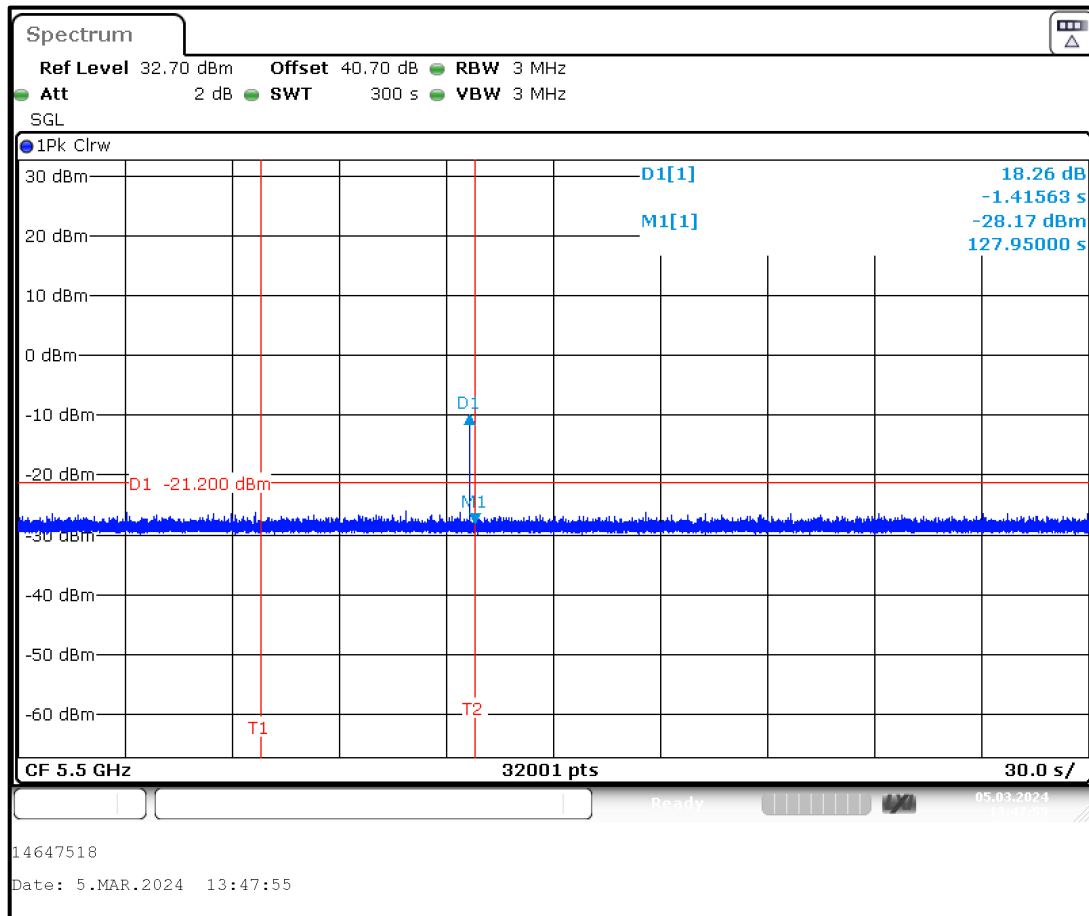
FCC Reference:	Part 15.407(h)(2)(ii)
Test Method Used:	KDB 905462 D02 Section 7.8.2.3

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	36

Notes:

1. In accordance with KDB 905462 D02 Table 2, the Initial Channel Availability Check test was performed on any single bandwidth. It was therefore tested only on an 80 MHz channel bandwidth.
2. The radar was fired 126.53 seconds after power on, and therefore 1.42 seconds before the end of the allowed 6 second radar window at the end of CAC (power up time shown to be 50.5 seconds during Initial Channel Availability Check test).
3. Observation of Ch_r continued for >2.5 minutes after the radar burst was generated.
4. Tests were performed using a type 0 radar and the radar detection threshold was as calculated in Section 4.2 of this test report.
5. The radar burst type 0, shown occurring just before the End of CAC line on the plot on the following page, was detected and no beacon or data transmission seen from the EUT after the end of CAC. Therefore, the CAC ends at the point declared and, in conjunction with the *Radar Burst at the Beginning of the Channel Availability Check Time* test, shows the CAC duration is greater than the 60 second minimum.
6. The noise floor remained below the -21.2 dBm/MHz (74 dBμV/m at 3m) unintentional radiator limit. This was measured worst-case with a peak detector and 3 MHz RBW in accordance with KDB 905462 D02 Section 7.8.2.1(a).

Radar Burst at the End of the Channel Availability Check Time (continued)**Results: 80 MHz Master**

Plot showing the radar at the end of CAC

Limits:**Part 15.407(h)(2)(ii)**

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

KDB 905462 D02 Table 4: DFS Response Requirement Values

Parameter	Value
Channel Availability Check Time	60 seconds

5.2.5. Channel Closing Transmission Time and Channel Move Time**Test Summary:**

Test Engineers:	Raghavendra Katti & Matthew Botfield	Test Date:	05 March 2024
Test Sample Serial Number:	04425600823330100022		

FCC Reference:	Part 15.407(h)(2)(iii)
Test Method Used:	KDB 905462 D02 Section 7.8.3

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	36

Notes:

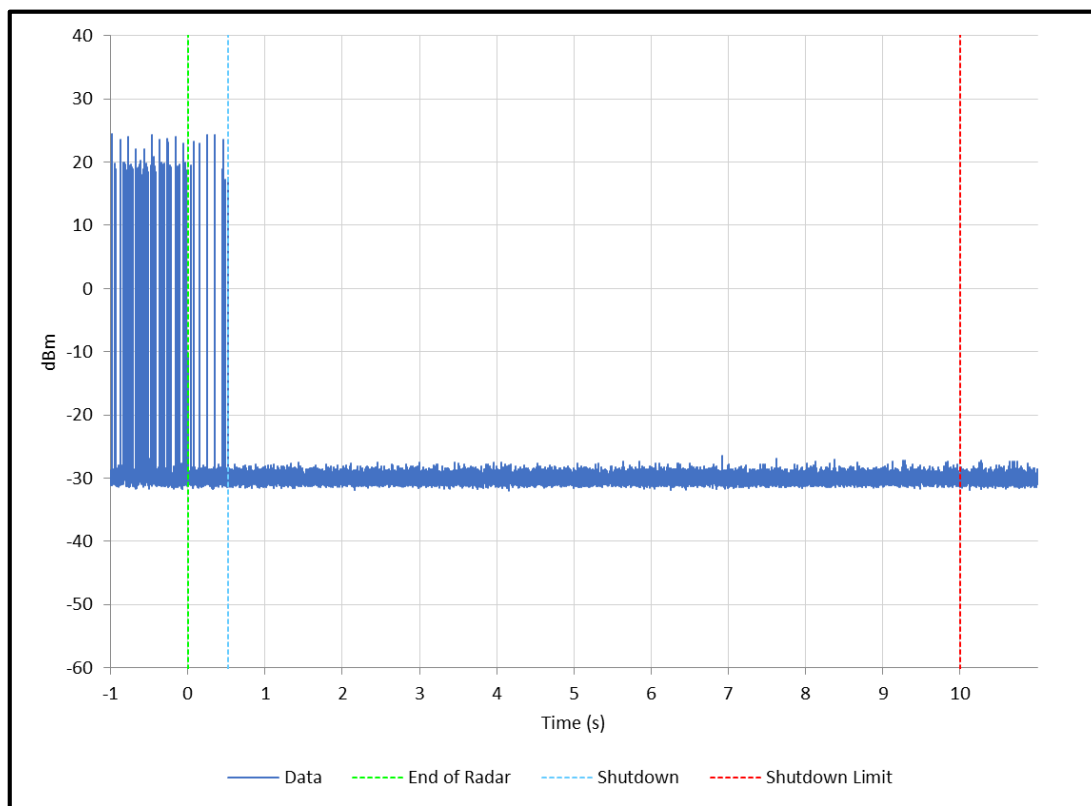
1. In accordance with KDB 905462 D02 Table 2, the Initial Channel Availability Check test was performed on the widest channel bandwidth. It was therefore tested only on an 80 MHz channel bandwidth.
2. UDP test data was streamed from the Master to the Client device using iPerf3 bandwidth testing tool. The channel loading was 18.9% with a 63 Mbit/s data rate. This therefore met the channel loading requirement of >17% in KDB 905462 D02 Section 7.7(c).
3. Tests were performed using a type 0 radar and the radar detection threshold calculated in Section 4.2 of this test report.
4. The total channel closing time limit was 200 ms + 60 ms = 260 ms (from KDB 905462 D02 Table 4).
5. Radar burst type 0 was detected and channel move occurred within the channel move and channel closing time limits, Therefore the EUT complied.

Results: 80 MHz Master - Channel Move Time

Channel (MHz)	Move Time (ms)	Limit (ms)	Margin (ms)	Detected
5570	522.9	10000	9477.1	Yes

Results: 80 MHz Master - Channel Closing Transmission Time

Channel (MHz)	Total Aggregate Tx Time (ms)	Limit (ms)	Margin (ms)	Tx Time >200 ms after end of radar (ms)	Limit (ms)	Margin (ms)
5570	6.0	260	254.0	3.4	60	56.6

Channel Closing Transmission Time and Channel Move Time (continued)**Results: 80 MHz Master**

Plot showing the full 10 second shutdown limit

Limits:**Part 15.407(h)(2)(iii)**

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

KDB 905462 D02 Table 4: DFS Response Requirement Values

Parameter	Value
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
Note 1: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.	

5.2.6. Non-occupancy Period**Test Summary:**

Test Engineers:	Raghavendra Katti & Matthew Botfield	Test Date:	05 March 2024
Test Sample Serial Number:	04425600823330100022		

FCC Reference:	Part 15.407(h)(iv)
Test Method Used:	KDB 905462 D02 Section 7.8.3

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	36

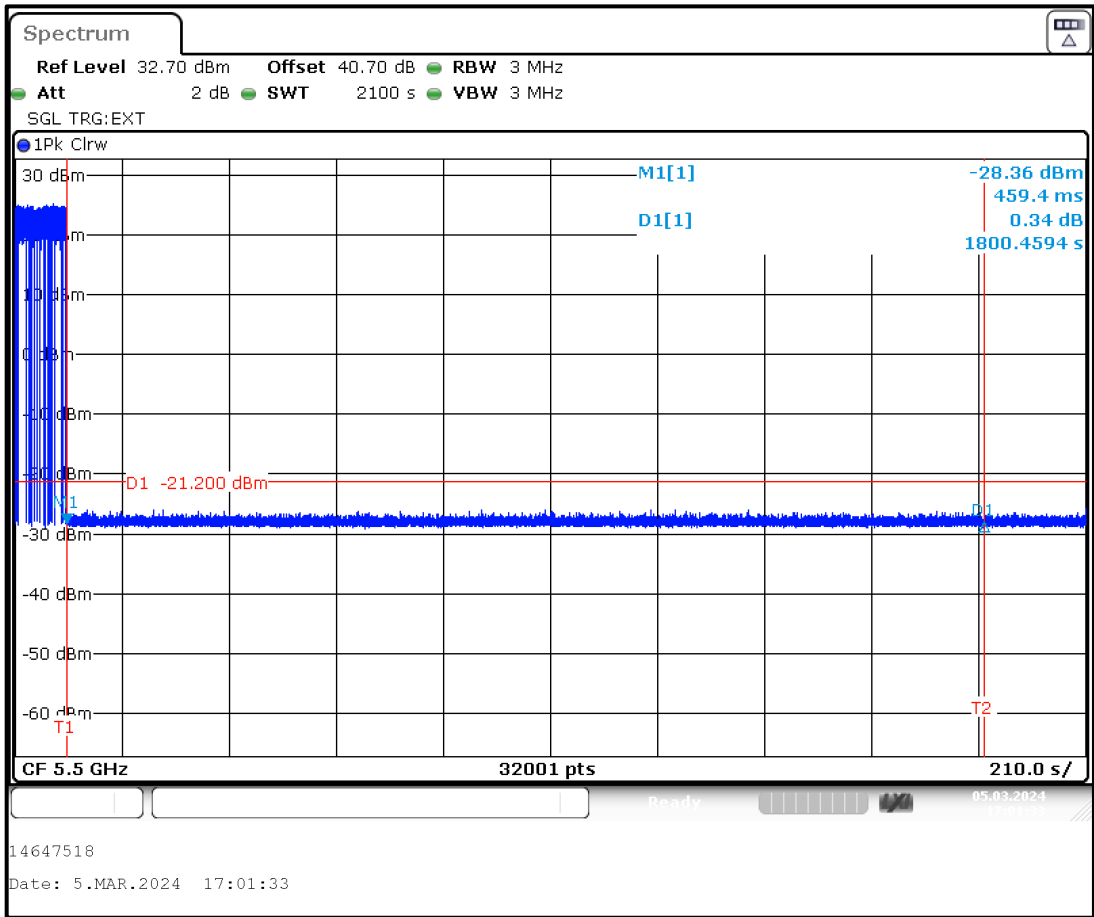
Notes:

1. In accordance with KDB 905462 D02 Table 2, the Initial Channel Availability Check test was performed on any single bandwidth. It was therefore tested only on an 80 MHz channel bandwidth.
2. UDP test data was streamed from the Master to the Client device using iPerf3 bandwidth testing tool. The channel loading was 18.9% with a 63 Mbit/s data rate. This therefore met the channel loading requirement of >17% in KDB 905462 D02 Section 7.7(c).
3. Tests were performed using a type 0 radar and the radar detection threshold calculated in Section 4.2 of this test report.
4. Radar burst type 0 was detected and the channel was vacated for >1800 seconds, meeting the 30 minute (1800 second) non-occupancy period. During this period all emissions remained below the -21.2 dBm/MHz (74 dBμV/m at 3m) unintentional radiator limit. Channel move occurred within the channel move and channel closing time limits. Therefore, the EUT complied.

Non-occupancy Period (continued)

Results: 80 MHz Master

Channel (MHz)	Trial	Non-Occ (min)	Limit (min)	Margin (min)	Result
5570	1	>33.3	30	>3.3	Complied



Limits:
Part 15.407(h)(2)(iv)

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

KDB 905462 D02 Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes

5.2.7. Statistical Performance Check – Short Pulse Radar Types 1 - 4**Test Summary:**

Test Engineers:	Raghavendra Katti & Matthew Botfield	Test Date:	06 March 2024
Test Sample Serial Number:	04425600823330100022		

FCC Reference:	Part 15.407(h)(2)
Test Method Used:	KDB 905462 D02 Section 7.8.4.1 and Notes below

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	38

Notes:

1. In accordance with KDB 905462 D02 Table 2, the Statistical Performance Check test was performed on all supported channel bandwidths and frequencies selected within the radar detection bandwidth.
2. UDP test data was streamed from the Master to the Client device using iPerf2 bandwidth testing tool. This was set to 15 Mbit/s for 20 MHz, 30 Mbit/s for 40 MHz and 63 Mbit/s for 80 MHz channels respectively. The channel loading was measured as 19.2% for 20 MHz operation, 17.9% for 40 MHz, 18.9% and 80 MHz operation. This therefore met the channel loading requirement of >17% in KDB 905462 D02 Section 7.7(c).
3. Tests were performed using the radar detection threshold calculated in Section 4.2 of this report.
4. Parameters used for the short radar types 1, 2, 3, and 4 may be found in this test report Appendices 4, 5, 6, and 7 respectively.
5. Detections marked “No*” (with asterisk) indicate instances where the EUT terminal application showed it detected pulses but deemed them not a radar due to its perceived “frequency spread” or a “fractional PRI”. Since the EUT would not perform a channel move in this instance, they have been recorded as not detected.
6. The EUT met the required detection probability, and therefore complied with the *Statistical Performance Check – Short Pulse Radar Types 1 – 4* test.

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 20 MHz Master - Radar Type 1**

Radar Type	Trial #	Radar frequency (MHz)	Detection
			Yes / No
1	1	5491.000	Yes
	2	5491.000	Yes
	3	5492.000	Yes
	4	5492.000	Yes
	5	5493.000	Yes
	6	5494.000	Yes
	7	5494.000	Yes
	8	5495.000	Yes
	9	5495.000	Yes
	10	5496.000	Yes
	11	5497.000	Yes
	12	5497.000	Yes
	13	5498.000	Yes
	14	5498.000	Yes
	15	5499.000	Yes
	16	5500.000	Yes
	17	5500.000	Yes
	18	5501.000	Yes
	19	5501.000	Yes
	20	5502.000	Yes
	21	5502.000	Yes
	22	5503.000	Yes
	23	5504.000	Yes
	24	5504.000	Yes
	25	5505.000	Yes
	26	5505.000	Yes
	27	5506.000	Yes
	28	5507.000	No
	29	5508.000	Yes
	30	5509.000	Yes
EUT Test Frequency:		5500 MHz	
Detection Probability:		96.7 %	

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 20 MHz Master - Radar Type 2**

Radar Type	Trial #	Radar frequency (MHz)	Detection
			Yes / No
2	1	5491.000	Yes
	2	5491.000	Yes
	3	5492.000	Yes
	4	5492.000	Yes
	5	5493.000	Yes
	6	5494.000	Yes
	7	5494.000	No*
	8	5495.000	Yes
	9	5495.000	Yes
	10	5496.000	Yes
	11	5497.000	Yes
	12	5497.000	Yes
	13	5498.000	Yes
	14	5498.000	Yes
	15	5499.000	Yes
	16	5500.000	Yes
	17	5500.000	Yes
	18	5501.000	Yes
	19	5501.000	Yes
	20	5502.000	Yes
	21	5502.000	Yes
	22	5503.000	Yes
	23	5504.000	Yes
	24	5504.000	Yes
	25	5505.000	Yes
	26	5505.000	Yes
	27	5506.000	Yes
	28	5507.000	Yes
	29	5508.000	Yes
	30	5509.000	Yes
EUT Test Frequency:		5500 MHz	
Detection Probability:		96.7 %	

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 20 MHz Master - Radar Type 3**

Radar Type	Trial #	Radar frequency (MHz)	Detection
			Yes / No
3	1	5491.000	Yes
	2	5491.000	Yes
	3	5492.000	Yes
	4	5492.000	No
	5	5493.000	Yes
	6	5494.000	Yes
	7	5494.000	Yes
	8	5495.000	Yes
	9	5495.000	Yes
	10	5496.000	Yes
	11	5497.000	Yes
	12	5497.000	Yes
	13	5498.000	Yes
	14	5498.000	Yes
	15	5499.000	Yes
	16	5500.000	Yes
	17	5500.000	Yes
	18	5501.000	Yes
	19	5501.000	Yes
	20	5502.000	Yes
	21	5502.000	Yes
	22	5503.000	Yes
	23	5504.000	Yes
	24	5504.000	Yes
	25	5505.000	Yes
	26	5505.000	Yes
	27	5506.000	Yes
	28	5507.000	Yes
	29	5508.000	Yes
	30	5509.000	Yes
EUT Test Frequency:		5500 MHz	
Detection Probability:		96.7 %	

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 20 MHz Master - Radar Type 4**

Radar Type	Trial #	Radar frequency (MHz)	Detection
			Yes / No
4	1	5491.000	Yes
	2	5491.000	Yes
	3	5492.000	Yes
	4	5492.000	Yes
	5	5493.000	Yes
	6	5494.000	Yes
	7	5494.000	Yes
	8	5495.000	Yes
	9	5495.000	Yes
	10	5496.000	Yes
	11	5497.000	Yes
	12	5497.000	Yes
	13	5498.000	Yes
	14	5498.000	Yes
	15	5499.000	Yes
	16	5500.000	Yes
	17	5500.000	Yes
	18	5501.000	Yes
	19	5501.000	Yes
	20	5502.000	Yes
	21	5502.000	Yes
	22	5503.000	Yes
	23	5504.000	Yes
	24	5504.000	Yes
	25	5505.000	No
	26	5505.000	Yes
	27	5506.000	Yes
	28	5507.000	Yes
	29	5508.000	Yes
	30	5509.000	Yes
EUT Test Frequency:		5500 MHz	
Detection Probability:		96.7 %	

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 40 MHz Master - Radar Type 1**

Radar Type	Trial #	Radar frequency (MHz)	Detection
			Yes / No
1	1	5492.000	Yes
	2	5492.000	Yes
	3	5493.000	Yes
	4	5495.000	Yes
	5	5496.000	Yes
	6	5497.000	Yes
	7	5498.000	Yes
	8	5500.000	Yes
	9	5501.000	Yes
	10	5502.000	Yes
	11	5503.000	Yes
	12	5505.000	Yes
	13	5506.000	Yes
	14	5507.000	Yes
	15	5508.000	Yes
	16	5510.000	Yes
	17	5511.000	Yes
	18	5512.000	Yes
	19	5513.000	Yes
	20	5514.000	Yes
	21	5516.000	Yes
	22	5517.000	Yes
	23	5518.000	Yes
	24	5519.000	Yes
	25	5521.000	Yes
	26	5522.000	Yes
	27	5523.000	Yes
	28	5524.000	Yes
	29	5526.000	Yes
	30	5528.000	Yes
EUT Test Frequency:		5510 MHz	
Detection Probability:		100 %	

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 40 MHz Master - Radar Type 2**

Radar Type	Trial #	Radar frequency (MHz)	Detection
			Yes / No
2	1	5492.000	Yes
	2	5492.000	Yes
	3	5493.000	Yes
	4	5495.000	Yes
	5	5496.000	Yes
	6	5497.000	Yes
	7	5498.000	Yes
	8	5500.000	Yes
	9	5501.000	Yes
	10	5502.000	Yes
	11	5503.000	Yes
	12	5505.000	Yes
	13	5506.000	Yes
	14	5507.000	Yes
	15	5508.000	Yes
	16	5510.000	Yes
	17	5511.000	Yes
	18	5512.000	Yes
	19	5513.000	Yes
	20	5514.000	Yes
	21	5516.000	Yes
	22	5517.000	Yes
	23	5518.000	Yes
	24	5519.000	Yes
	25	5521.000	Yes
	26	5522.000	No
	27	5523.000	Yes
	28	5524.000	Yes
	29	5526.000	Yes
	30	5528.000	Yes
EUT Test Frequency:		5510 MHz	
Detection Probability:		96.7 %	

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 40 MHz Master - Radar Type 3**

Radar Type	Trial #	Radar frequency (MHz)	Detection
			Yes / No
3	1	5492.000	Yes
	2	5492.000	Yes
	3	5493.000	Yes
	4	5495.000	Yes
	5	5496.000	Yes
	6	5497.000	Yes
	7	5498.000	Yes
	8	5500.000	Yes
	9	5501.000	Yes
	10	5502.000	Yes
	11	5503.000	Yes
	12	5505.000	Yes
	13	5506.000	Yes
	14	5507.000	No
	15	5508.000	Yes
	16	5510.000	Yes
	17	5511.000	Yes
	18	5512.000	Yes
	19	5513.000	Yes
	20	5514.000	No
	21	5516.000	Yes
	22	5517.000	Yes
	23	5518.000	Yes
	24	5519.000	Yes
	25	5521.000	Yes
	26	5522.000	Yes
	27	5523.000	Yes
	28	5524.000	Yes
	29	5526.000	Yes
	30	5528.000	Yes
EUT Test Frequency:		5510 MHz	
Detection Probability:		93.3 %	

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 40 MHz Master - Radar Type 4**

Radar Type	Trial #	Radar frequency (MHz)	Detection
			Yes / No
4	1	5492.000	Yes
	2	5492.000	Yes
	3	5493.000	Yes
	4	5495.000	Yes
	5	5496.000	No
	6	5497.000	Yes
	7	5498.000	Yes
	8	5500.000	Yes
	9	5501.000	Yes
	10	5502.000	Yes
	11	5503.000	Yes
	12	5505.000	Yes
	13	5506.000	Yes
	14	5507.000	Yes
	15	5508.000	Yes
	16	5510.000	Yes
	17	5511.000	Yes
	18	5512.000	Yes
	19	5513.000	Yes
	20	5514.000	Yes
	21	5516.000	Yes
	22	5517.000	Yes
	23	5518.000	Yes
	24	5519.000	Yes
	25	5521.000	Yes
	26	5522.000	Yes
	27	5523.000	Yes
	28	5524.000	Yes
	29	5526.000	Yes
	30	5528.000	Yes
EUT Test Frequency:		5510 MHz	
Detection Probability:		96.7 %	

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 80 MHz Master - Radar Type 1**

Radar Type	Trial #	Radar frequency (MHz)	Detection
			Yes / No
1	1	5492.000	Yes
	2	5493.000	Yes
	3	5495.000	Yes
	4	5498.000	Yes
	5	5500.000	Yes
	6	5502.000	Yes
	7	5505.000	Yes
	8	5507.000	Yes
	9	5510.000	Yes
	10	5512.000	Yes
	11	5515.000	Yes
	12	5517.000	Yes
	13	5520.000	Yes
	14	5523.000	Yes
	15	5526.000	Yes
	16	5528.000	Yes
	17	5530.000	Yes
	18	5533.000	Yes
	19	5535.000	Yes
	20	5537.000	Yes
	21	5540.000	Yes
	22	5543.000	Yes
	23	5547.000	Yes
	24	5550.000	Yes
	25	5554.000	Yes
	26	5557.000	Yes
	27	5560.000	Yes
	28	5562.000	Yes
	29	5565.000	Yes
	30	5568.000	Yes
EUT Test Frequency:		5530 MHz	
Detection Probability:		100 %	

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 80 MHz Master - Radar Type 2**

Radar Type	Trial #	Radar frequency (MHz)	Detection
			Yes / No
2	1	5492.000	Yes
	2	5493.000	Yes
	3	5495.000	Yes
	4	5498.000	Yes
	5	5500.000	Yes
	6	5502.000	Yes
	7	5505.000	Yes
	8	5507.000	Yes
	9	5510.000	Yes
	10	5512.000	Yes
	11	5515.000	Yes
	12	5517.000	Yes
	13	5520.000	Yes
	14	5523.000	Yes
	15	5526.000	Yes
	16	5528.000	Yes
	17	5530.000	Yes
	18	5533.000	Yes
	19	5535.000	Yes
	20	5537.000	Yes
	21	5540.000	Yes
	22	5543.000	Yes
	23	5547.000	Yes
	24	5550.000	Yes
	25	5554.000	Yes
	26	5557.000	Yes
	27	5560.000	Yes
	28	5562.000	Yes
	29	5565.000	Yes
	30	5568.000	Yes
EUT Test Frequency:		5530 MHz	
Detection Probability:		100 %	

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 80 MHz Master - Radar Type 3**

Radar Type	Trial #	Radar frequency (MHz)	Detection
			Yes / No
3	1	5492.000	Yes
	2	5493.000	Yes
	3	5495.000	Yes
	4	5498.000	No
	5	5500.000	Yes
	6	5502.000	Yes
	7	5505.000	Yes
	8	5507.000	Yes
	9	5510.000	Yes
	10	5512.000	Yes
	11	5515.000	Yes
	12	5517.000	Yes
	13	5520.000	Yes
	14	5523.000	Yes
	15	5526.000	Yes
	16	5528.000	Yes
	17	5530.000	Yes
	18	5533.000	Yes
	19	5535.000	Yes
	20	5537.000	Yes
	21	5540.000	Yes
	22	5543.000	Yes
	23	5547.000	Yes
	24	5550.000	Yes
	25	5554.000	Yes
	26	5557.000	Yes
	27	5560.000	Yes
	28	5562.000	Yes
	29	5565.000	Yes
	30	5568.000	No
EUT Test Frequency:		5530 MHz	
Detection Probability:		93.3 %	

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 80 MHz Master - Radar Type 4**

Radar Type	Trial #	Radar frequency (MHz)	Detection
			Yes / No
4	1	5492.000	Yes
	2	5493.000	Yes
	3	5495.000	Yes
	4	5498.000	Yes
	5	5500.000	No*
	6	5502.000	Yes
	7	5505.000	Yes
	8	5507.000	Yes
	9	5510.000	Yes
	10	5512.000	Yes
	11	5515.000	Yes
	12	5517.000	Yes
	13	5520.000	Yes
	14	5523.000	Yes
	15	5526.000	Yes
	16	5528.000	Yes
	17	5530.000	Yes
	18	5533.000	No
	19	5535.000	Yes
	20	5537.000	Yes
	21	5540.000	Yes
	22	5543.000	Yes
	23	5547.000	Yes
	24	5550.000	Yes
	25	5554.000	Yes
	26	5557.000	Yes
	27	5560.000	Yes
	28	5562.000	Yes
	29	5565.000	Yes
	30	5568.000	Yes
EUT Test Frequency:		5530 MHz	
Detection Probability:		93.3 %	

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: Aggregate Percentage of Successful Detection**

Radar Type	Channel Bandwidth		
	20 MHz	40 MHz	80 MHz
Type 1	96.7 %	100 %	100 %
Type 2	96.7 %	96.7 %	100 %
Type 3	96.7 %	93.3 %	93.3 %
Type 4	96.7 %	96.7 %	93.3 %
Aggregate	96.7 %	96.7 %	96.7 %

Limits:**KDB 905462 D02 Table 5 – Short Pulse Radar Test Waveforms**

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a.	$\text{Roundup} \left\{ \left(\frac{1}{360} \right) \times \left(\frac{19 \times 10^6}{PRI_{\mu sec}} \right) \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A.			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

5.2.8. Statistical Performance Check – Long Pulse Radar Type 5**Test Summary:**

Test Engineers:	Raghavendra Katti & Matthew Botfield	Test Date:	07 March 2024
Test Sample Serial Number:	04425600823330100022		

FCC Reference:	Part 15.407(h)(2)
Test Method Used:	KDB 905462 D02 Section 7.8.4.2 and Notes below

Environmental Conditions:

Temperature (°C):	24
Relative Humidity (%):	38

Notes:

1. In accordance with KDB 905462 D02 Table 2, the Statistical Performance Check test was performed on all supported channel bandwidths and frequencies selected within the radar detection bandwidth.
2. UDP test data was streamed from the Master to the Client device using iPerf2 bandwidth testing tool. This was set to 15 Mbit/s for 20 MHz, 30 Mbit/s for 40 MHz and 63 Mbit/s for 80 MHz channels respectively. The channel loading was measured as 19.2% for 20 MHz operation, 17.9% for 40 MHz, 18.9% and 80 MHz operation. This therefore met the channel loading requirement of >17% in KDB 905462 D02 Section 7.7(c).
3. Tests were performed using the radar detection threshold calculated in Section 4.2 of this test report.
4. Parameters used for the long radar type 5 can be found in Appendix 8 of this test report.
5. The radar centre frequency was set to the centre frequency of the channel for the first 10 trials, 90% chirp overlap at the bottom of the 99% OBW for trials 11-20, and 90% chirp overlap at the top of the 99% OBW for trials 21-30. See section 5.2.1 for occupied bandwidth measurements.
6. The EUT met the required detection probability, and therefore complied with the *Statistical Performance Check – Long Pulse Radar Type 5* test.

Statistical Performance Check – Long Pulse Radar Type 5 (continued)**Results: 20 MHz Master - Radar Type 5**

Radar Type	Trial #	Radar frequency (MHz)	Detection
			Yes / No
5	1	5500.000	Yes
	2	5500.000	Yes
	3	5500.000	Yes
	4	5500.000	Yes
	5	5500.000	Yes
	6	5500.000	Yes
	7	5500.000	Yes
	8	5500.000	Yes
	9	5500.000	Yes
	10	5500.000	Yes
	11	5498.330	No
	12	5494.730	Yes
	13	5492.730	Yes
	14	5495.930	Yes
	15	5495.530	Yes
	16	5497.130	Yes
	17	5494.730	Yes
	18	5495.930	Yes
	19	5497.530	Yes
	20	5495.930	Yes
	21	5507.000	Yes
	22	5502.600	Yes
	23	5501.400	Yes
	24	5501.000	Yes
	25	5501.000	Yes
	26	5502.600	Yes
	27	5501.400	Yes
	28	5501.400	Yes
	29	5503.000	Yes
	30	5501.000	Yes
EUT Test Frequency:		5500 MHz	
Detection Probability:		96.7%	

Statistical Performance Check – Long Pulse Radar Type 5 (continued)**Results: 40 MHz Master - Radar Type 5**

Radar Type	Trial #	Radar frequency (MHz)	Detection
			Yes / No
5	1	5510.000	Yes
	2	5510.000	Yes
	3	5510.000	Yes
	4	5510.000	Yes
	5	5510.000	Yes
	6	5510.000	Yes
	7	5510.000	Yes
	8	5510.000	Yes
	9	5510.000	Yes
	10	5510.000	Yes
	11	5498.635	No
	12	5495.035	Yes
	13	5493.835	Yes
	14	5499.035	Yes
	15	5497.835	Yes
	16	5498.635	Yes
	17	5499.035	Yes
	18	5493.835	Yes
	19	5497.035	Yes
	20	5497.435	Yes
	21	5523.765	Yes
	22	5522.565	Yes
	23	5520.965	Yes
	24	5522.565	Yes
	25	5524.165	Yes
	26	5522.165	Yes
	27	5525.365	Yes
	28	5520.165	Yes
	29	5522.565	Yes
	30	5520.165	No
EUT Test Frequency:		5510 MHz	
Detection Probability:		93.3%	

Statistical Performance Check – Long Pulse Radar Type 5 (continued)**Results: 80 MHz Master - Radar Type 5**

Radar Type	Trial #	Radar frequency (MHz)	Detection
			Yes / No
5	1	5530.000	Yes
	2	5530.000	Yes
	3	5530.000	Yes
	4	5530.000	Yes
	5	5530.000	Yes
	6	5530.000	Yes
	7	5530.000	Yes
	8	5530.000	Yes
	9	5530.000	Yes
	10	5530.000	Yes
	11	5495.565	Yes
	12	5495.165	Yes
	13	5497.165	Yes
	14	5496.365	Yes
	15	5499.565	Yes
	16	5493.965	Yes
	17	5499.165	Yes
	18	5497.965	Yes
	19	5496.765	Yes
	20	5497.165	Yes
	21	5564.035	Yes
	22	5562.035	Yes
	23	5565.635	Yes
	24	5564.835	Yes
	25	5565.235	Yes
	26	5562.435	Yes
	27	5562.435	Yes
	28	5563.235	Yes
	29	5561.235	Yes
	30	5563.235	Yes
EUT Test Frequency:		5530 MHz	
Detection Probability:		100%	

Statistical Performance Check – Long Pulse Radar Type 5 (continued)

Limits:

KDB 905462 D02 Table 6 – Long Pulse Radar Test Waveform

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

5.2.9. Statistical Performance Check – Frequency Hopping Radar Type 6**Test Summary:**

Test Engineers:	Raghavendra Katti & Matthew Botfield	Test Date:	07 March 2024
Test Sample Serial Number:	04425600823330100022		

FCC Reference:	Part 15.407(h)(2)
Test Method Used:	KDB 905462 D02 Section 7.8.4.3 and Notes below

Environmental Conditions:

Temperature (°C):	24
Relative Humidity (%):	38

Notes:

1. In accordance with KDB 905462 D02 Table 2, the Statistical Performance Check test was performed on all supported channel bandwidths and frequencies selected within the radar detection bandwidth.
2. UDP test data was streamed from the Master to the Client device using iPerf2 bandwidth testing tool. This was set to 15 Mbit/s for 20 MHz, 30 Mbit/s for 40 MHz and 63 Mbit/s for 80 MHz channels respectively. The channel loading was measured as 19.2% for 20 MHz operation, 17.9% for 40 MHz, 18.9% and 80 MHz operation. This therefore met the channel loading requirement of >17% in KDB 905462 D02 Section 7.7(c).
3. Tests were performed using the radar detection threshold calculated in Section 4.2 of this test report.
4. The EUT met the required detection probability, and therefore complied with the *Statistical Performance Check – Frequency Hopping Radar Type 6* test.

Statistical Performance Check – Frequency Hopping Radar Type 6 (continued)**Results: 20 MHz Master - Radar Type 6**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
6	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	No	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5500 MHz		
Radar Frequency:		Hopping		
Detection Probability:		96.7%		

Results: 40 MHz Master - Radar Type 6

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
6	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	No	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5510 MHz		
Radar Frequency:		Hopping		
Detection Probability:		96.7%		

Statistical Performance Check – Frequency Hopping Radar Type 6 (continued)**Results: 80 MHz Master - Radar Type 6**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
6	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	No
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5530 MHz		
Radar Frequency:		Hopping		
Detection Probability:		96.7%		

Limits:**KDB 905462 D02 Table 7 – Frequency Hopping Radar Test Waveform**

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

6. Measurement Uncertainty

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor such that a confidence level of approximately 95% is maintained. For the purposes of this document “approximately” is interpreted as meaning “effectively” or “for most practical purposes”.

Measurement Type	Confidence Level (%)	Calculated Uncertainty
DFS CAC Plot Timing	95%	± 918 ms
DFS Channel Shutdown Timing	95%	± 450 µs
DFS Non-Occupancy Timing	95%	± 79.25 ms
DFS Radar Amplitude	95%	± 1.49 dB

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty the published guidance of the appropriate accreditation body is followed.

7. Report Revision History

Version Number	Revision Details		
	Page No(s)	Clause	Details
1.0	-	-	Initial Version
2.0	1, 7	3.1	Model number updated

Appendix 1. Test Equipment Used

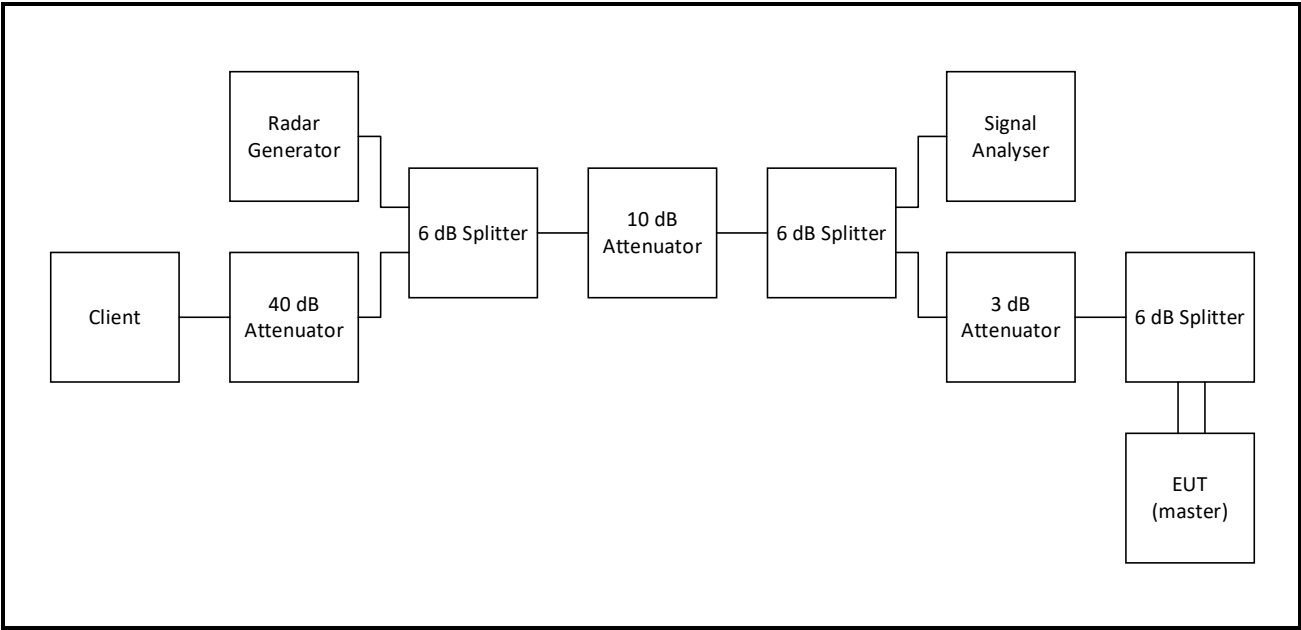
Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M2001	Thermohygrometer	Testo	608-H1	45041824	27 Dec 2024	12
M2036	Signal Analyser	Rohde & Schwarz	FSV30	101791	27 Jun 2024	12
G0615	Vector Signal Generator	Rohde & Schwarz	SMBV100A	260473	30 Jan 2026	36
A1536	Step Attenuator	Hewlett Packard	8494B & 8496B	30801 & 19649	Calibrated before use	-
A465	Step Attenuator	Hewlett Packard	8494B	3131P324	Calibrated before use	-
A248	Step Attenuator	Narda	743-60	01411	Calibrated before use	-
A212636	RF Splitter	AAMCS	MCS-PWD-2W-2G-18G-10W-Sf	000078	Calibrated before use	-
A215492	RF Splitter	AAMCS	MCS-PWD-2W-2G-18G-10W-Sf	000080	Calibrated before use	-
A242135	RF Splitter	AAMCS	MCS-PWD-2W-2G-18G-10W-Sf	000084	Calibrated before use	-

NB In accordance with UKAS requirements all the measurement equipment is on a calibration schedule.

Appendix 2. Test Set-Up

All tests were performed as conducted measurements using the setups as shown below. The detecting device always receives the radar via a direct (non-isolated) port of any circulator or splitter to ensure impedance variations do not affect the radar amplitude in accordance with KDB 905462 D02 Section 7.2, point (2).

Setup Diagram – EUT as Master with Radar Injection at Master



Appendix 3. Radar Calibration and Verification Data

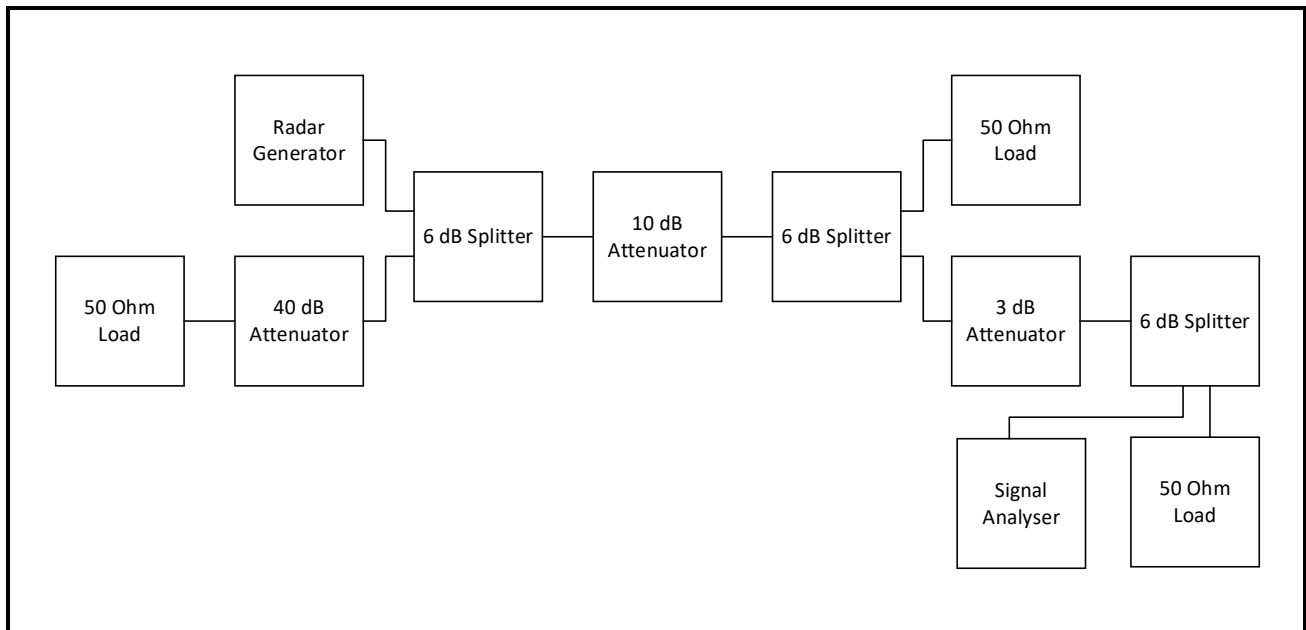
All radar types were generated and produced by a Rohde & Schwarz SMBV100A Vector Signal Generator test system, Using R&S pulse sequencer (DFS) V2.5.

The radar amplitude was calibrated using the setup diagram shown below. The output level was adjusted to give the correct level into the EUT, as calculated in Section 4.2 of this report, before the tests were performed.

Equipment Setup for Calibration Block Diagram – Conducted Method

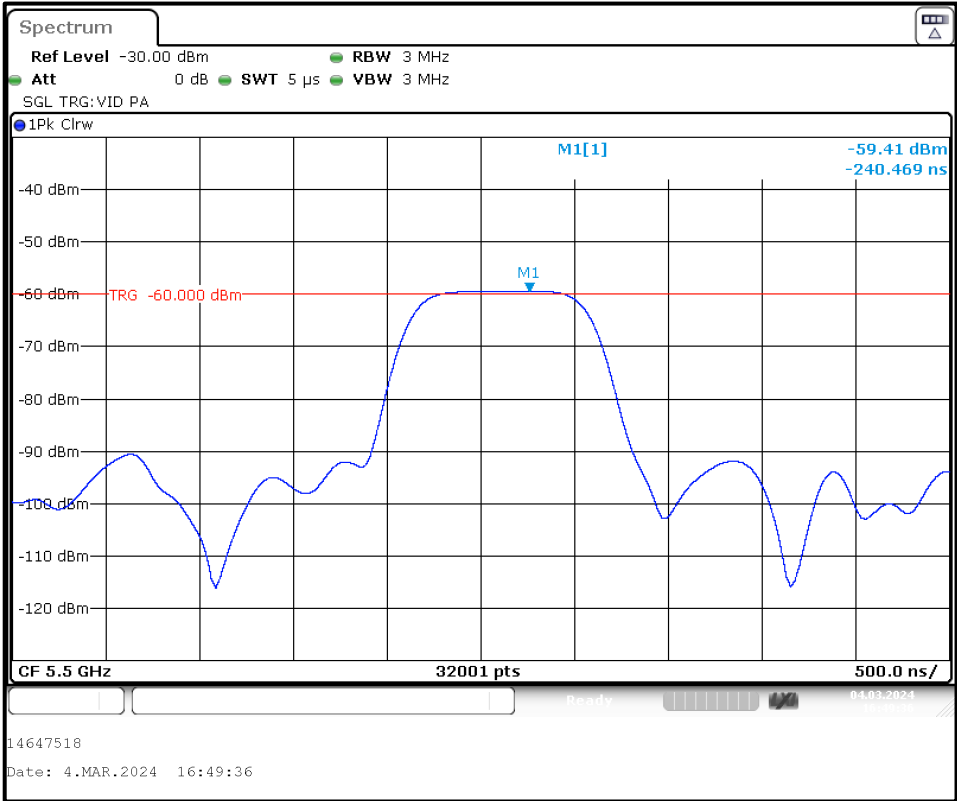
Calibration was performed using the setups as shown below.

EUT as Master with Radar Injection at Master

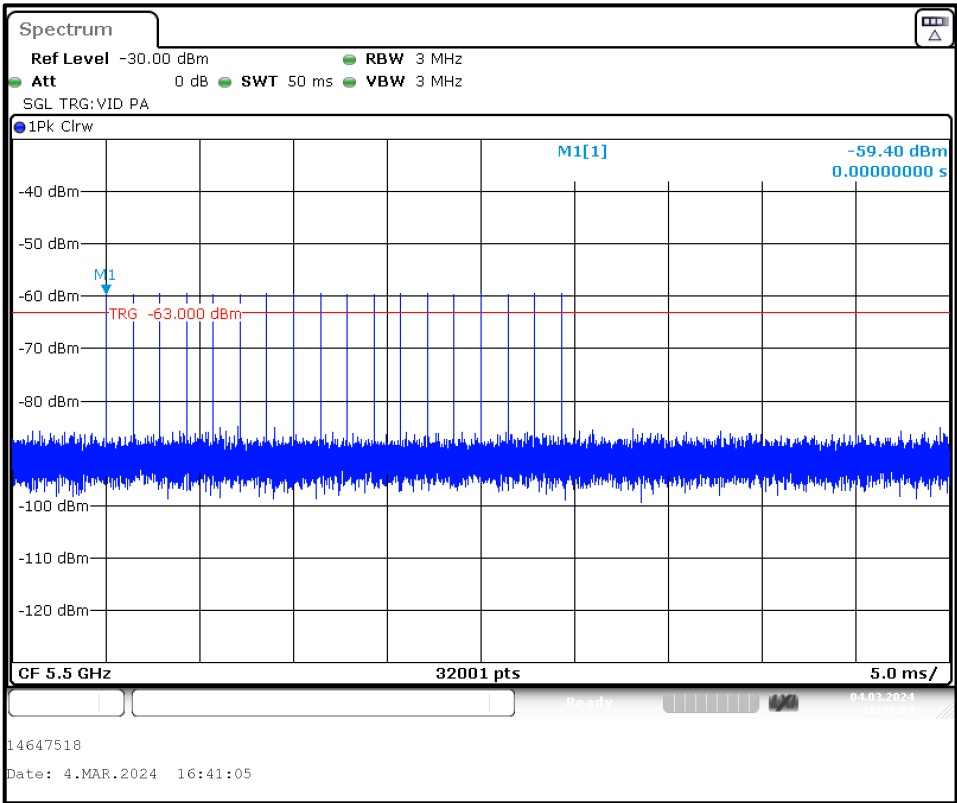


Radar Calibration and Verification Data (continued)

Radar Type 0



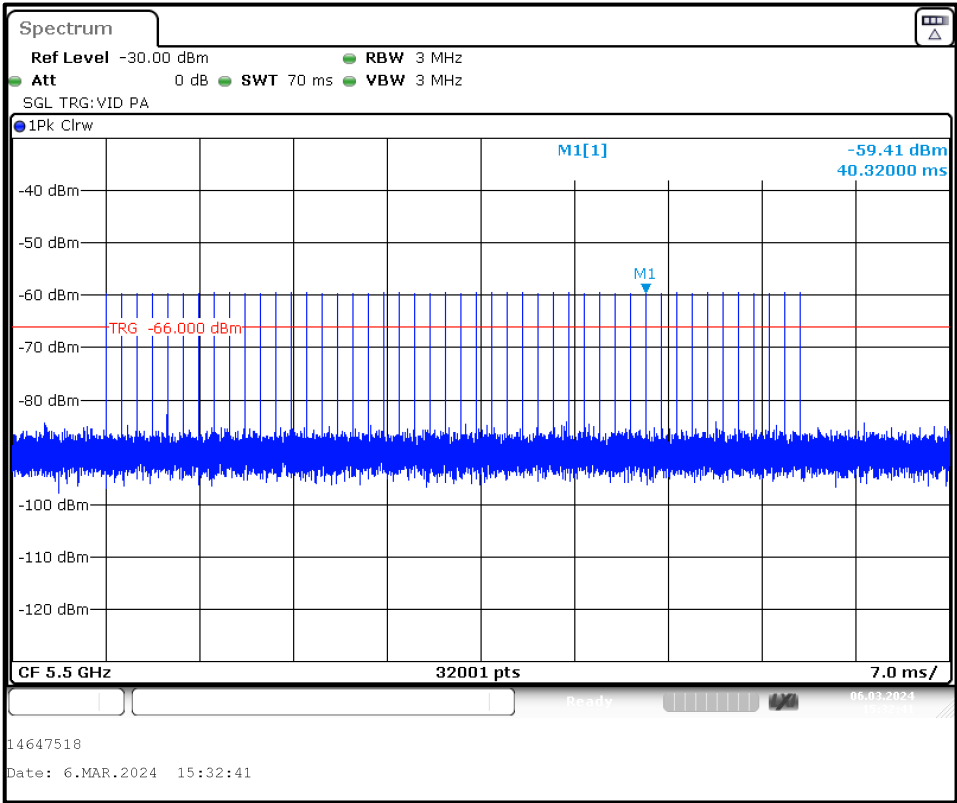
Radar Type 0 – single 1 μ sec pulse



Radar Type 0 – full 18 pulse waveform

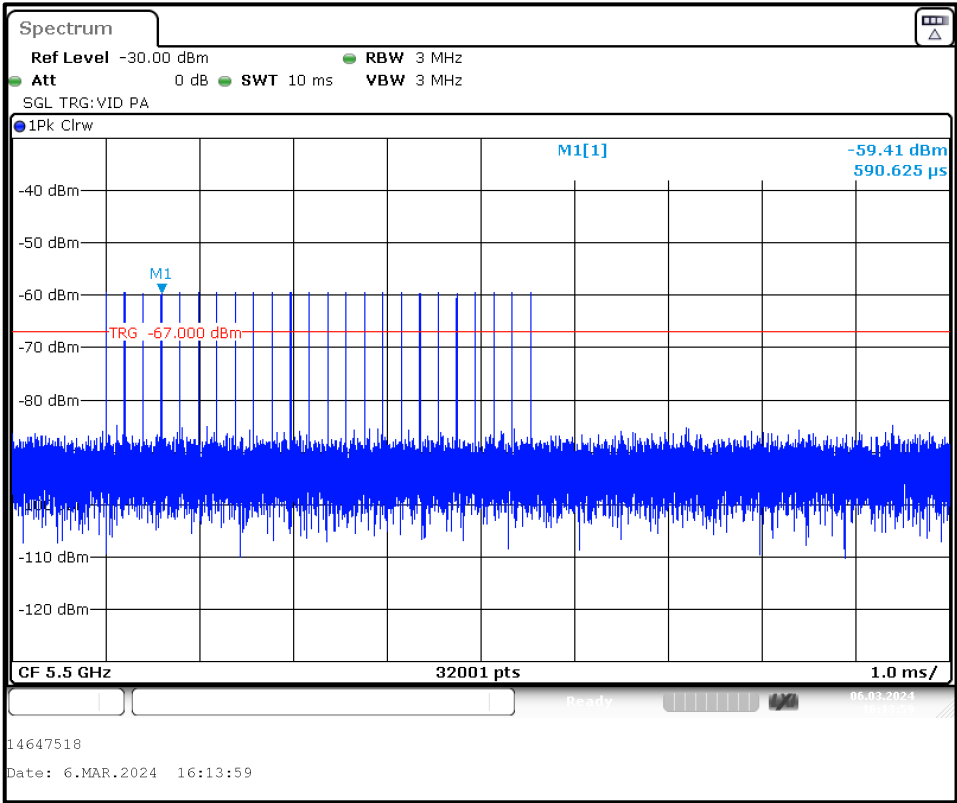
Radar Calibration and Verification Data (continued)

Radar Type 1



Radar Type 1 – 1 μ sec pulse width, 1152 μ sec PRI, 46 pulses

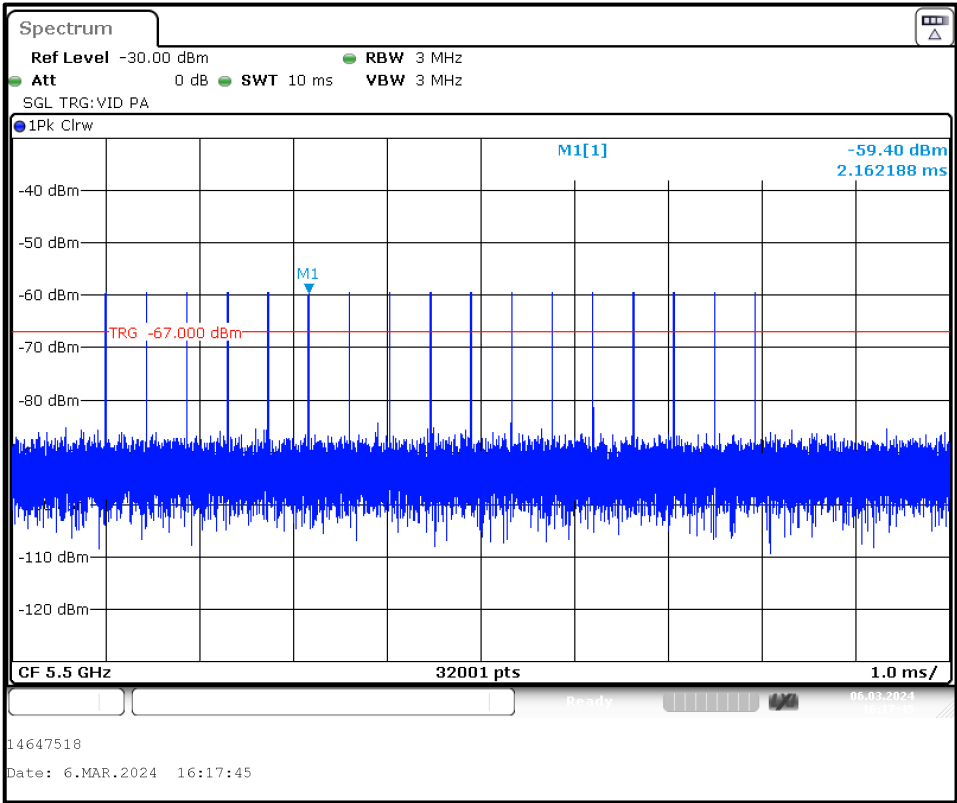
Radar Type 2



Radar Type 2 – 2.6 μ sec pulse width, 156 μ sec PRI, 28 pulses

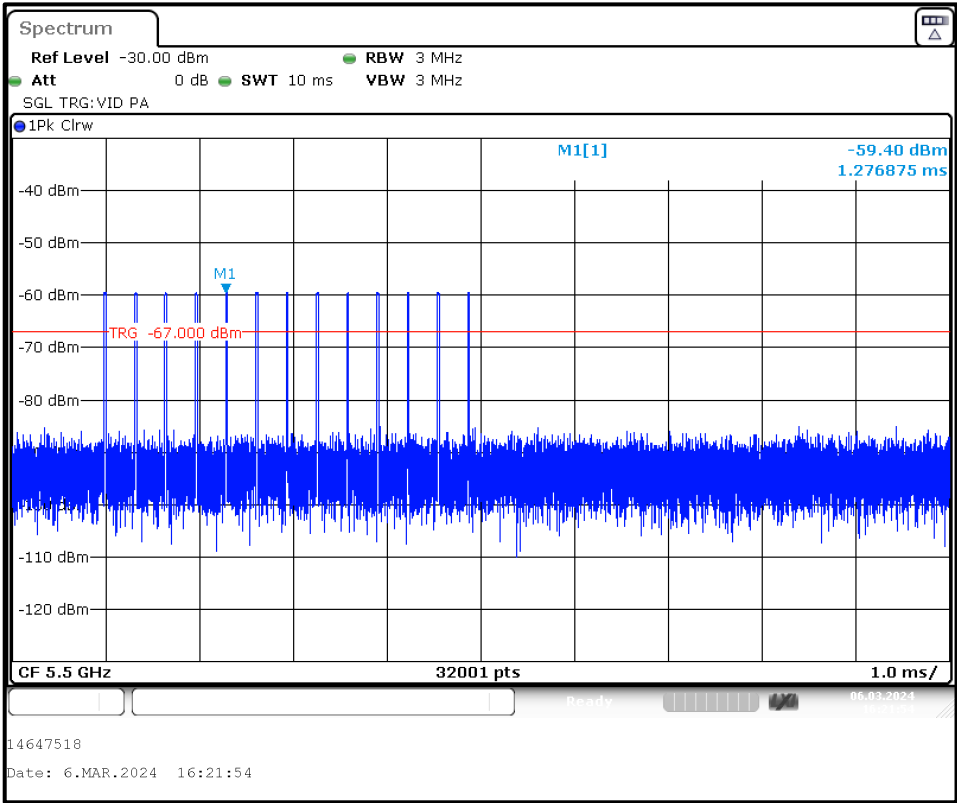
Radar Calibration and Verification Data (continued)

Radar Type 3

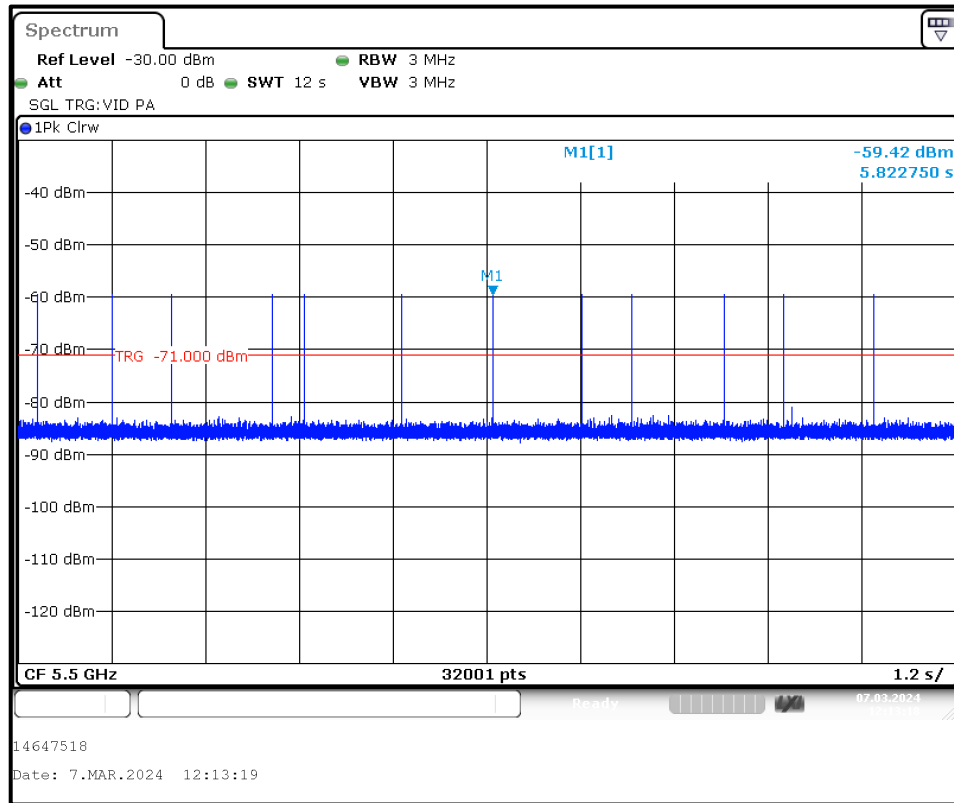


Radar Type 3 – 7.2 μ sec pulse width, 433 μ sec PRI, 17 pulses

Radar Type 4



Radar Type 4 – 19.7 μ sec pulse width, 323 μ sec PRI, 13 pulses

Radar Calibration and Verification Data (continued)**Radar Type 5 (Long)****Long Radar Type 5**

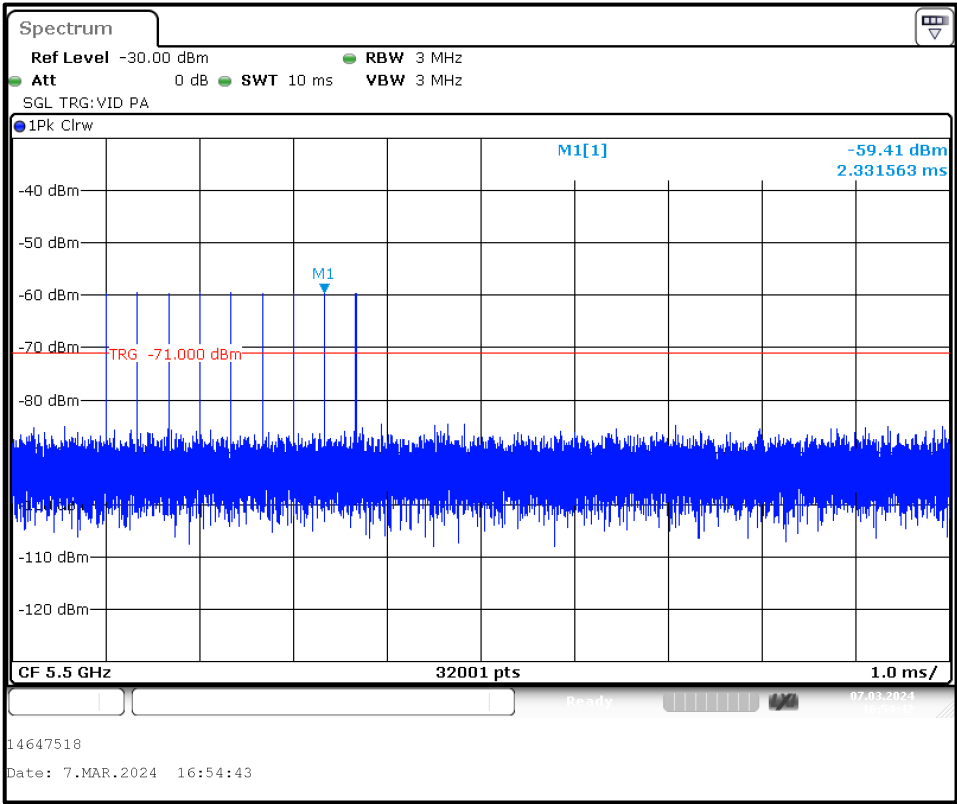
Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
1	1	56.6	5	-	-	894.128
2	1	55.2	5	-	-	848.91
3	1	69.9	5	-	-	600.5
4	2	60.1	5	1208	-	900.59
5	1	98.1	5	-	-	312.5
6	2	58.9	5	1777	-	553.62
7	3	79.2	5	1006	1890	717.4
8	2	98.5	5	1435	-	852.85
9	2	68.8	5	1789	-	491.75
10	1	89.6	5	-	-	679.35
11	2	59.6	5	1347	-	435.8
12	2	84.3	5	1981	-	599.4

Radars Calibration and Verification Data (continued)

Radars Type 6 (Hopping)

The radar shown below is for Trial 1 of the 20 MHz channel BW testing. This had the following hopping sequence:

Hopping sequence (MHz):	5.291, 5.293, 5.543, 5.482, 5.302, 5.508, 5.309, 5.415, 5.715, 5.4800, 5.44, 5.337, 5.613, 5.544, 5.529, 5.277, 5.388, 5.626, 5.675, 5.503, 5.688, 5.364, 5.501, 5.557, 5.332, 5.351, 5.335, 5.561, 5.708, 5.504, 5.573, 5.693, 5.499, 5.648, 5.516, 5.570, 5.679, 5.717, 5.390, 5.531, 5.534, 5.571, 5.5800, 5.51, 5.359, 5.402, 5.423, 5.408, 5.497, 5.251, 5.400, 5.404, 5.387, 5.322, 5.677, 5.399, 5.687, 5.324, 5.698, 5.315, 5.505, 5.512, 5.542, 5.523, 5.459, 5.478, 5.575, 5.628, 5.477, 5.559, 5.460, 5.375, 5.455, 5.659, 5.287, 5.540, 5.541, 5.481, 5.331, 5.409, 5.269, 5.707, 5.394, 5.700, 5.476, 5.671, 5.413, 5.676, 5.485, 5.627, 5.431, 5.601, 5.434, 5.654, 5.396, 5.568, 5.643, 5.433, 5.630, 5.651
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Hopping Radar Pulse 6 Showing 9 pulses of first hop
(Centre Frequency adjusted to hop frequency)

Appendix 4. Statistical Performance Check– Radar Type 1 Trial Records

20 MHz Master

Radar Type 1			
Trial #	'Test A' Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses/s)	Pulse Repetition Interval (µsec)
1	4	1730.1	578
2	13	1319.3	758
3	21	1089.3	918
4	8	1519.8	658
5	10	1432.7	698
6	18	1165.5	858
7	17	1193.3	838
8	5	1672.2	598
9	14	1285.3	778
10	19	1139.0	878
11	2	1858.7	538
12	9	1474.9	678
13	16	1222.5	818
14	22	1066.1	938
15	15	1253.1	798
16	N/A - 'Test B' Radar	506.3	1975
17	N/A - 'Test B' Radar	425.5	2350
18	N/A - 'Test B' Radar	950.6	1052
19	N/A - 'Test B' Radar	762.8	1311
20	N/A - 'Test B' Radar	474.8	2106
21	N/A - 'Test B' Radar	762.2	1312
22	N/A - 'Test B' Radar	497.0	2012
23	N/A - 'Test B' Radar	721.0	1387
24	N/A - 'Test B' Radar	361.4	2767
25	N/A - 'Test B' Radar	1464.1	683
26	N/A - 'Test B' Radar	469.9	2128
27	N/A - 'Test B' Radar	900.9	1110
28	N/A - 'Test B' Radar	514.9	1942
29	N/A - 'Test B' Radar	537.9	1859
30	N/A - 'Test B' Radar	525.2	1904

Statistical Performance Check– Radar Type 1 Trial Records (continued)**40 MHz Master**

Radar Type 1			
Trial #	'Test A' Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses/s)	Pulse Repetition Interval (µsec)
1	3	1792.1	558
2	22	1066.1	938
3	16	1222.5	818
4	9	1474.9	678
5	12	1355.0	738
6	1	1930.5	518
7	5	1672.2	598
8	18	1165.5	858
9	15	1253.1	798
10	6	1618.1	618
11	20	1113.6	898
12	21	1089.3	918
13	13	1319.3	758
14	7	1567.4	638
15	10	1432.7	698
16	N/A - 'Test B' Radar	894.5	1118
17	N/A - 'Test B' Radar	546.1	1831
18	N/A - 'Test B' Radar	343.2	2914
19	N/A - 'Test B' Radar	1172.3	853
20	N/A - 'Test B' Radar	369.4	2707
21	N/A - 'Test B' Radar	376.8	2654
22	N/A - 'Test B' Radar	372.6	2684
23	N/A - 'Test B' Radar	862.8	1159
24	N/A - 'Test B' Radar	777.0	1287
25	N/A - 'Test B' Radar	593.5	1685
26	N/A - 'Test B' Radar	331.9	3013
27	N/A - 'Test B' Radar	385.8	2592
28	N/A - 'Test B' Radar	947.9	1055
29	N/A - 'Test B' Radar	557.4	1794
30	N/A - 'Test B' Radar	573.1	1745

Statistical Performance Check– Radar Type 1 Trial Records (continued)**80 MHz Master**

Radar Type 1			
Trial #	'Test A' Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses/s)	Pulse Repetition Interval (µsec)
1	14	1285.3	778
2	6	1618.1	618
3	7	1567.4	638
4	20	1113.6	898
5	11	1392.8	718
6	3	1792.1	558
7	21	1089.3	918
8	8	1519.8	658
9	17	1193.3	838
10	12	1355.0	738
11	19	1139.0	878
12	1	1930.5	518
13	15	1253.1	798
14	10	1432.7	698
15	4	1730.1	578
16	N/A - 'Test B' Radar	845.3	1183
17	N/A - 'Test B' Radar	1451.4	689
18	N/A - 'Test B' Radar	341.1	2932
19	N/A - 'Test B' Radar	584.8	1710
20	N/A - 'Test B' Radar	817.7	1223
21	N/A - 'Test B' Radar	356.8	2803
22	N/A - 'Test B' Radar	439.4	2276
23	N/A - 'Test B' Radar	401.4	2491
24	N/A - 'Test B' Radar	423.9	2359
25	N/A - 'Test B' Radar	479.6	2085
26	N/A - 'Test B' Radar	410.3	2437
27	N/A - 'Test B' Radar	553.7	1806
28	N/A - 'Test B' Radar	560.5	1784
29	N/A - 'Test B' Radar	985.2	1015
30	N/A - 'Test B' Radar	421.4	2373

Appendix 5. Statistical Performance Check– Radar Type 2 Trial Records

20 MHz Master

Radar Type 2			
Trial #	Number Pulses per Burst	Pulse Width (μsec)	PRI (μsec)
1	27	1.2	195
2	26	1.5	213
3	24	4.6	164
4	25	2.9	180
5	26	2.7	158
6	23	1.6	221
7	29	2.9	151
8	24	3.8	159
9	23	1.9	173
10	25	3.6	151
11	26	4.8	180
12	25	1.1	217
13	23	2.5	172
14	24	4.0	163
15	27	1.5	176
16	26	3.1	182
17	24	3.4	170
18	24	4.6	191
19	27	5.0	158
20	24	3.6	196
21	27	4.2	176
22	26	1.2	213
23	25	3.1	227
24	29	1.3	193
25	28	1.9	193
26	25	2.6	202
27	29	1.1	202
28	24	2.9	210
29	26	1.1	153
30	24	3.4	205

Statistical Performance Check– Radar Type 2 Trial Records (continued)**40 MHz Master**

Radar Type 2			
Trial #	Number Pulses per Burst	Pulse Width (μsec)	PRI (μsec)
1	28	1.7	191
2	28	4.5	151
3	29	1.3	159
4	27	1.6	190
5	27	4.3	203
6	23	2.5	154
7	24	4.1	218
8	27	4.8	171
9	27	2.8	192
10	28	1.3	208
11	29	5.0	206
12	28	4.6	227
13	27	3.6	227
14	29	4.7	204
15	29	3.5	200
16	28	1.2	157
17	28	4.2	184
18	24	2.4	160
19	27	4.5	180
20	24	4.6	206
21	28	1.2	205
22	28	2.1	172
23	26	4.4	162
24	29	1.5	227
25	25	2.7	205
26	26	3.1	152
27	26	1.0	211
28	24	4.8	218
29	24	1.9	156
30	26	3.9	172

Statistical Performance Check– Radar Type 2 Trial Records (continued)**80 MHz Master**

Radar Type 2			
Trial #	Number Pulses per Burst	Pulse Width (µsec)	PRI (µsec)
1	26	2.6	187
2	25	1.2	171
3	26	3.1	210
4	27	3.5	156
5	29	4.4	197
6	26	3.0	158
7	28	1.1	199
8	28	2.7	150
9	26	3.1	160
10	26	5.0	201
11	24	3.3	150
12	28	3.2	205
13	29	2.5	182
14	29	2.3	217
15	24	1.2	223
16	27	2.6	226
17	24	3.5	230
18	28	1.1	180
19	26	1.3	202
20	29	1.1	160
21	24	3.4	207
22	28	4.7	211
23	26	4.2	217
24	24	4.2	184
25	24	4.4	183
26	25	4.3	215
27	28	3.5	180
28	24	1.5	174
29	23	4.3	180
30	26	4.0	193

Appendix 6. Statistical Performance Check– Radar Type 3 Trial Records**20 MHz Master**

Radar Type 3			
Trial #	Number Pulses per Burst	Pulse Width (μsec)	PRI (μsec)
1	16	8.8	500
2	17	7.6	473
3	17	8.3	229
4	17	6.5	394
5	17	8.3	301
6	16	8.3	244
7	17	8.3	480
8	18	7.6	285
9	16	8.6	321
10	17	6.1	476
11	18	8.2	488
12	18	6.9	291
13	18	8.6	379
14	18	6.0	422
15	17	7.5	352
16	18	9.9	288
17	18	6.6	397
18	16	6.4	325
19	16	9.4	430
20	18	6.1	207
21	17	6.1	488
22	17	6.7	460
23	16	6.6	297
24	17	7.1	374
25	17	9.0	243
26	18	8.5	386
27	17	7.5	240
28	17	9.1	257
29	17	7.4	378
30	17	9.3	271

Statistical Performance Check– Radar Type 3 Trial Records (continued)**40 MHz Master**

Radar Type 3			
Trial #	Number Pulses per Burst	Pulse Width (µsec)	PRI (µsec)
1	17	9.2	398
2	17	9.2	465
3	17	8.3	378
4	16	7.6	253
5	16	8.8	386
6	18	9.6	270
7	17	9.8	464
8	16	7.4	325
9	17	8.3	493
10	17	9.1	491
11	17	8.5	202
12	16	9.1	211
13	16	8.6	499
14	17	9.9	358
15	16	9.1	437
16	16	7.2	273
17	16	7.4	434
18	18	8.2	259
19	17	8.2	317
20	17	9.9	386
21	16	6.7	255
22	18	8.0	337
23	16	9.3	346
24	17	8.4	242
25	18	8.5	325
26	18	9.8	324
27	17	8.5	200
28	17	10.0	370
29	17	8.2	454
30	17	8.3	420

Statistical Performance Check– Radar Type 3 Trial Records (continued)**80 MHz Master**

Radar Type 3			
Trial #	Number Pulses per Burst	Pulse Width (μsec)	PRI (μsec)
1	16	6.9	420
2	17	8.7	343
3	16	6.8	219
4	17	8.4	363
5	17	6.6	296
6	18	8.7	470
7	18	6.2	456
8	18	7.1	292
9	17	6.5	262
10	16	7.0	375
11	17	9.1	460
12	17	7.5	441
13	17	7.4	269
14	18	6.6	246
15	16	9.9	392
16	16	9.2	332
17	16	6.3	405
18	17	6.0	272
19	16	8.0	315
20	17	7.4	382
21	17	9.5	332
22	18	6.8	438
23	18	8.9	427
24	16	8.9	376
25	16	7.4	358
26	17	8.8	210
27	17	10.0	241
28	17	8.4	477
29	17	7.2	350
30	17	7.9	299

Appendix 7. Statistical Performance Check– Radar Type 4 Trial Records

20 MHz Master

Radar Type 4			
Trial #	Number Pulses per Burst	Pulse Width (μsec)	PRI (μsec)
1	14	19.3	330
2	12	17.5	441
3	16	19.8	224
4	13	11.2	496
5	14	16.1	318
6	15	18.4	416
7	13	18.3	431
8	12	11.8	437
9	13	15.9	405
10	13	13.5	331
11	16	11.4	456
12	13	16.9	228
13	13	16.9	327
14	14	18.1	276
15	14	11.8	430
16	15	18.9	345
17	16	14.3	231
18	15	11.2	204
19	16	11.6	456
20	15	19.4	325
21	12	14.9	259
22	16	11.3	470
23	13	18.7	426
24	14	15.3	215
25	12	17.7	211
26	14	17.8	496
27	13	15.4	216
28	15	17.7	227
29	14	15.7	351
30	15	19.8	480

Statistical Performance Check– Radar Type 4 Trial Records (continued)**40 MHz Master**

Radar Type 4			
Trial #	Number Pulses per Burst	Pulse Width (µsec)	PRI (µsec)
1	16	14.1	202
2	14	17.2	357
3	12	12.7	213
4	13	11.1	406
5	16	17.8	299
6	15	13.3	275
7	13	12.2	470
8	12	14.7	419
9	15	11.0	317
10	14	14.0	300
11	12	13.3	314
12	13	16.1	200
13	14	20.0	493
14	14	11.0	487
15	15	11.8	301
16	15	19.1	419
17	12	18.8	256
18	15	11.9	299
19	12	15.3	318
20	12	12.4	404
21	15	12.5	454
22	14	19.3	363
23	16	17.8	262
24	12	19.7	310
25	14	19.8	324
26	13	17.0	202
27	16	17.2	424
28	13	11.2	263
29	13	15.2	274
30	15	17.4	320

Statistical Performance Check– Radar Type 4 Trial Records (continued)**80 MHz Master**

Radar Type 4			
Trial #	Number Pulses per Burst	Pulse Width (μsec)	PRI (μsec)
1	16	16.8	387
2	15	18.8	233
3	15	16.5	492
4	16	15.2	298
5	14	17.4	446
6	15	14.0	266
7	12	18.4	399
8	14	19.4	447
9	12	15.8	262
10	13	19.8	211
11	14	13.6	351
12	14	13.5	350
13	13	19.4	218
14	13	16.6	459
15	15	15.2	478
16	15	11.4	495
17	14	11.0	245
18	13	11.7	342
19	15	13.2	408
20	14	16.1	389
21	16	15.5	250
22	12	14.2	307
23	14	16.2	281
24	15	20.0	490
25	13	13.1	391
26	14	17.0	390
27	15	14.6	200
28	15	17.5	218
29	14	13.3	491
30	12	11.3	296

Appendix 8. Statistical Performance Check– Radar Type 5 Trial Records

20 MHz Master - Trial 1

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	98.1	5	1113	-	411.234
2	1	54.8	5	-	-	251.306
3	3	58.0	5	1697	1594	119.187
4	2	55.2	5	1894	-	51.63
5	1	64.5	5	-	-	313.653
6	2	72.2	5	1195	-	426.657
7	1	97.3	5	-	-	289.53
8	3	65.6	5	1650	1957	149.283
9	3	99.3	5	1895	1868	303.787
10	3	50.4	5	1231	1996	112.65
11	2	70.1	5	1192	-	342.963
12	2	90.1	5	1954	-	453.447
13	2	62.4	5	1310	-	628.54
14	3	63.0	5	1134	1287	430.103
15	2	55.9	5	1759	-	542.647
16	1	84.3	5	-	-	543
17	2	65.0	5	1883	-	497.333
18	2	87.8	5	1752	-	275.867

Statistical Performance Check– Radar Type 5 Trial Records (continued)**20 MHz Master - Trial 2**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	67.6	15	1719	-	641.394
2	2	86.6	15	1809	-	318.018
3	3	80.3	15	1229	1419	254.215
4	2	68.1	15	1203	-	603.533
5	1	93.5	15	-	-	594.541
6	3	98.1	15	1528	1295	106.208
7	2	91.2	15	1712	-	410.136
8	1	62.4	15	-	-	609.234
9	3	63.1	15	1655	1211	329.661
10	2	96.9	15	1326		571.029
11	3	59.9	15	1649	1200	660.676
12	2	54.5	15	1427	-	530.254
13	2	84.3	15	1148	-	222.192
14	2	53.3	15	1309	-	51.119
15	3	93.8	15	1320	1301	213.847
16	3	71.9	15	1513	1033	15.565
17	2	55.9	15	1033	-	399.382

Statistical Performance Check– Radar Type 5 Trial Records (continued)**20 MHz Master - Trial 3**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	3	93.6	19	1539	1817	1067.84
2	2	79.8	19	1912	-	692.031
3	3	70.8	19	1636	1401	549.632
4	2	68.8	19	1933	-	310.483
5	2	81.6	19	1890	-	679.334
6	1	74.1	19	-	-	971.245
7	3	59.9	19	1854	1936	284.485
8	1	98.0	19	-	-	580.296
9	1	78.9	19	-	-	165.967
10	1	64.6	19	-	-	687.218
11	3	85.3	19	1358	1366	481.609

20 MHz Master - Trial 4

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	60.2	8	1156	-	261.675
2	2	68.8	8	1852	-	529.76
3	2	51.9	8	1180	-	262.09
4	1	89.5	8	-	-	496.51
5	1	68.9	8	-	-	508.33
6	3	98.2	8	1791	1318	706.35
7	3	85.9	8	1037	1371	200.83
8	2	77.1	8	1273	-	47.86
9	1	85.3	8	-	-	645.86
10	2	72.2	8	1502	-	520.08
11	3	58.3	8	1240	1227	644.29
12	2	78.0	8	1603	-	307.3
13	3	84.6	8	1809	1849	484.51
14	2	67.2	8	1949	-	231.81
15	1	50.6	8	-	-	386.2
16	2	99.6	8	1962	-	418.6

Statistical Performance Check– Radar Type 5 Trial Records (continued)**20 MHz Master - Trial 5**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	70.6	8	-	-	472.228
2	2	53.2	8	1252	-	760.457
3	3	58.0	8	1321	1992	704.264
4	2	54.5	8	1527	-	682.831
5	2	69.2	8	1849	-	504.749
6	2	52.4	8	1719	-	824.916
7	1	58.3	8	-	-	764.873
8	2	65.7	8	1357	-	174.57
9	2	77.2	8	1428	-	163.837
10	3	74.3	8	1867	1193	701.054
11	3	91.3	8	1142	1987	104.991
12	2	91.1	8	1164	-	380.199
13	2	84.5	8	1185	-	665.386
14	2	75.0	8	1703	-	342.843

20 MHz Master - Trial 6

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	66.4	11	-	-	178.421
2	2	60.0	11	1131	-	229.05
3	2	66.8	11	1549	-	701.42
4	3	97.9	11	1541	1409	170.31
5	3	54.8	11	1705	1207	705.45
6	1	57.9	11	-	-	212.73
7	2	52.5	11	1211	-	321.93
8	1	55.7	11	-	-	447.51
9	1	50.7	11	-	-	443.61
10	2	57.0	11	1173	-	606.35
11	3	66.2	11	1943	1195	653.21
12	3	62.3	11	1571	1059	714.36
13	3	87.3	11	1069	1170	56.64
14	2	70.2	11	1646	-	278.5
15	3	51.6	11	1426	1745	757.5

Statistical Performance Check– Radar Type 5 Trial Records (continued)**20 MHz Master - Trial 7**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	59.7	8	-	-	548.321
2	1	89.3	8	-	-	444.643
3	1	60.7	8	-	-	468.007
4	2	65.6	8	1033	-	465.54
5	2	67.2	8	1588	-	442.493
6	3	60.2	8	1673	1964	142.607
7	2	87.1	8	1218	-	511.9
8	2	89.8	8	1551	-	170.983
9	3	59.2	8	1517	1818	269.537
10	2	62.5	8	1050	-	268.28
11	3	78.5	8	1520	1923	75.273
12	2	69.7	8	1740	-	326.477
13	3	64.0	8	1519	1304	619.98
14	2	69.2	8	1222	-	535.963
15	3	61.3	8	1612	1489	213.437
16	1	63.6	8	-	-	414
17	2	64.1	8	1453	-	30.633
18	2	64	8	1792	-	412.667

Statistical Performance Check– Radar Type 5 Trial Records (continued)**20 MHz Master - Trial 8**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	60.8	5	1491	-	169.839
2	3	83.7	5	1588	1441	554.108
3	1	53.9	5	-	-	275.545
4	3	89.8	5	1727	1062	228.453
5	1	68.9	5	-	-	117.911
6	2	72.3	5	1387	-	328.808
7	1	55.3	5	-	-	687.396
8	1	90.4	5	-	-	669.174
9	1	61.1	5	-	-	507.261
10	3	56.5	5	1859	1524	641.539
11	3	66.7	5	1460	1793	437.586
12	2	66.8	5	1261	-	22.244
13	2	82.8	5	1448	-	538.602
14	2	81.3	5	1207	-	307.639
15	1	94.3	5	-	-	639.047
16	2	70.1	5	1599	-	253.665
17	2	58.0	5	1295	-	601.382

Statistical Performance Check– Radar Type 5 Trial Records (continued)**20 MHz Master - Trial 9**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	92.5	11	1717	-	245.088
2	3	92.6	11	1554	1563	245.183
3	1	81.0	11	-	-	366.99
4	3	78.6	11	1152	1402	501.26
5	1	65.3	11	-	-	297.88
6	1	54.7	11	-	-	539.47
7	1	77.3	11	-	-	213.21
8	3	55.1	11	1554	1044	209.57
9	2	85.8	11	1963	-	283.73
10	2	80.5	11	1842	-	192.87
11	1	54.6	11	-	-	353.04
12	1	71.1	11	-	-	499.83
13	2	62.8	11	1085	-	512.25
14	2	70.4	11	1310	-	401.01
15	2	90.2	11	1485	-	34.48
16	3	90.6	11	1026	1858	289.03
17	2	82.6	11	1480	-	110.34
18	1	53.1	11	-	-	529.5
19	2	50.3	11	1730	-	249
20	3	59.6	11	1011	1193	501.4

Statistical Performance Check– Radar Type 5 Trial Records (continued)**20 MHz Master - Trial 10**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	3	77.7	13	1400	1240	599.287
2	1	86.3	13	-	-	532.747
3	1	70.5	13	-	-	541.374
4	3	85.3	13	1211	1964	414.401
5	2	60.9	13	1603	-	320.059
6	2	84.1	13	1151	-	679.716
7	2	74.9	13	1688	-	85.203
8	1	71.0	13	-	-	755.6
9	1	76.3	13	-	-	631.027
10	2	77.9	13	1174	-	170.204
11	2	75.1	13	1775	-	798.591
12	2	52.4	13	1096	-	148.049
13	1	97.1	13	-	-	769.886
14	2	60.8	13	1320	-	373.843

20 MHz Master - Trial 11

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	82.5	19	1725	-	723.948
2	3	96.5	19	1211	1500	391.953
3	2	95.4	19	1917	-	384.856
4	2	94.4	19	1164	-	590.809
5	2	72.6	19	1459	-	727.312
6	1	95.8	19	-	-	44.985
7	3	81.5	19	1232	1525	123.568
8	3	87.2	19	1006	1876	242.342
9	1	75.3	19	-	-	296.965
10	3	50.2	19	1496	1131	138.348
11	1	90.8	19	-	-	608.981
12	2	84.7	19	1501	-	772.854
13	1	85.0	19	-	-	628.677

Statistical Performance Check– Radar Type 5 Trial Records (continued)**20 MHz Master - Trial 12**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	3	53.9	10	1645	1715	957.069
2	2	76.7	10	1759	-	67.52
3	2	59.4	10	1758	-	821.98
4	1	96.1	10	-	-	75.23
5	2	83.0	10	1434	-	35.41
6	2	69.0	10	1407	-	190.36
7	1	99.2	10	-	-	277.62
8	2	73.5	10	1804	-	150.36
9	2	83.1	10	1041	-	397.29
10	2	95.8	10	1341	-	965.31
11	2	97.1	10	1353	-	816.6
12	2	75.4	10	1192	-	733.8

20 MHz Master - Trial 13

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	3	62.0	5	1418	1023	601.523
2	3	53.8	5	1491	1238	202.6
3	2	95.1	5	1157	-	9.877
4	2	67.6	5	1058	-	329.05
5	2	65.2	5	1499	-	343.483
6	2	77.6	5	1847	-	491.037
7	3	58.6	5	1988	1535	634.66
8	3	77.4	5	1067	1776	54.583
9	2	90.4	5	1927	-	538.837
10	2	59.3	5	1041	-	551.4
11	2	78.5	5	1851	-	189.113
12	2	97.1	5	1874	-	59.757
13	2	75.8	5	1946	-	399.35
14	2	91.3	5	1176	-	271.323
15	2	96.4	5	1202	-	320.207
16	2	54.5	5	1594	-	313.6
17	2	68.2	5	1891	-	173.133
18	2	61.7	5	1758	-	440.667

Statistical Performance Check– Radar Type 5 Trial Records (continued)**20 MHz Master - Trial 14**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	3	67.5	13	1271	1949	524.472
2	3	61.8	13	1185	1092	143.143
3	1	72.7	13	-	-	233.816
4	3	58.7	13	1654	1814	747.679
5	2	95.9	13	1404	-	273.542
6	1	73.4	13	-	-	830.895
7	1	75.6	13	-	-	742.028
8	2	86.9	13	1420	-	468.972
9	3	70.9	13	1250	1666	419.825
10	2	58.9	13	1830	-	225.248
11	1	60.7	13	-	-	189.041
12	2	59.8	13	1759	-	25.654
13	2	55.3	13	1594	-	75.277

20 MHz Master - Trial 15

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	67.3	12	1553	-	286.963
2	1	78.2	12	-	-	274.62
3	1	51.6	12	-	-	470.01
4	3	50.3	12	1404	1024	536.58
5	1	80.0	12	-	-	659.18
6	3	50.5	12	1759	1132	720.28
7	3	84.4	12	1457	1500	513.31
8	3	66.5	12	1592	1498	560.72
9	2	77.5	12	1872	-	641.34
10	2	91.4	12	1980	-	443.39
11	2	54.4	12	1154	-	441.93
12	2	51.4	12	1827	-	470.03
13	2	94.9	12	1034	-	115.9
14	1	51.2	12	-	-	34.44
15	2	77.5	12	1611	-	278
16	1	79.2	12	-	-	278.7

Statistical Performance Check– Radar Type 5 Trial Records (continued)**20 MHz Master - Trial 16**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	64.7	16	1624	-	816.109
2	1	67.7	16	-	-	884.27
3	2	56.9	16	1306	-	47.16
4	1	62.5	16	-	-	191.42
5	2	69.2	16	1820	-	55.09
6	1	90.6	16	-	-	703.68
7	2	65.4	16	1671	-	140.85
8	2	61.3	16	1662	-	262.9

20 MHz Master - Trial 17

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	50.2	10	1826	-	1047.26
2	2	94.4	10	1092	-	1290.96
3	2	57.8	10	1988	-	796.74
4	2	62.6	10	1205	-	113.28
5	1	98.2	10	-	-	375.3
6	3	92.3	10	1435	1087	639
7	3	81.9	10	1803	1540	948.94
8	3	91.6	10	1419	1382	56.4

Statistical Performance Check– Radar Type 5 Trial Records (continued)**20 MHz Master - Trial 18**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	58.0	13	1424	-	395.764
2	3	68.9	13	1932	1157	386.257
3	3	77.3	13	1433	1885	783.244
4	2	54.0	13	1336	-	699.891
5	1	66.8	13	-	-	707.969
6	3	71.1	13	1910	1473	731.196
7	2	94.6	13	1546	-	22.943
8	3	94.6	13	1284	1170	195.33
9	2	98.2	13	1993	-	102.137
10	1	66.7	13	-	-	804.194
11	2	61.8	13	1150	-	124.381
12	2	68.1	13	1192	-	563.019
13	2	51.7	13	1327	-	827.786
14	1	94.9	13	-	-	749.743

20 MHz Master - Trial 19

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	3	71.1	17	1986	1447	346.665
2	1	74.2	17	-	-	537.39
3	2	62.8	17	1507	-	626.58
4	3	98.9	17	1163	1094	267.92
5	1	81.8	17	-	-	210.95
6	2	51.9	17	1293	-	578.21
7	2	86.1	17	1494	-	488.78
8	3	67.0	17	1645	1196	208.19
9	2	97.1	17	1727	-	348.99
10	2	63.9	17	1783	-	276.5
11	2	76.5	17	1900	-	338.88
12	1	64.2	17	-	-	677.41
13	2	71.8	17	1311	-	289.54
14	3	72.0	17	1887	1006	125.2
15	3	67.2	17	1141	1906	648

Statistical Performance Check– Radar Type 5 Trial Records (continued)**20 MHz Master - Trial 20**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	71.3	13	1638	-	34.539
2	2	85.4	13	1138	-	544.963
3	1	67.7	13	-	-	407.017
4	2	50.5	13	1968	-	257.8
5	2	65.5	13	1389	-	35.093
6	1	59.7	13	-	-	394.557
7	2	95.6	13	1152	-	356.79
8	1	63.3	13	-	-	20.763
9	2	52.8	13	1999	-	78.277
10	2	65.3	13	1696	-	515.42
11	2	79.3	13	1178	-	230.573
12	2	91.2	13	1854	-	147.487
13	2	66.1	13	1772	-	6.15
14	3	72.8	13	1745	1488	544.573
15	2	65.5	13	1309	-	86.197
16	2	67.2	13	1026	-	107.1
17	3	73.8	13	1090	1039	279.833
18	2	70.7	13	1808	-	162.467

20 MHz Master - Trial 21

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	91.7	5	-	-	907.85
2	2	51.4	5	1444		181.02
3	3	64.5	5	1090	1053	587.08
4	1	77.3	5	-	-	657.42
5	3	55.1	5	1248	1894	748.71
6	1	92.3	5	-	-	685.07
7	1	62.7	5	-	-	965.91
8	2	84.2	5	1131	-	55.41
9	2	52.9	5	1269	-	179.14
10	2	79.0	5	1909	-	441.39
11	2	80.9	5	1836	-	860
12	2	94.8	5	1277	-	4.8

Statistical Performance Check– Radar Type 5 Trial Records (continued)**20 MHz Master - Trial 22**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	3	57.9	16	1499	1076	478.939
2	1	52.1	16	-	-	182.761
3	3	83.7	16	1000	1747	301.615
4	1	84.7	16	-	-	71.533
5	3	70.0	16	1970	1800	472.711
6	1	64.2	16	-	-	499.538
7	1	76.9	16	-	-	197.666
8	2	51.3	16	1092	-	672.834
9	3	79.8	16	1789	1858	604.791
10	2	97.0	16	1138	-	137.779
11	1	79.0	16	-	-	152.196
12	3	50.1	16	1703	1070	338.964
13	2	71.9	16	1381	-	463.402
14	3	64.9	16	1434	1173	251.929
15	2	67.3	16	1571	-	593.347
16	1	56.5	16	-	-	478.265
17	3	68.0	16	1262	1777	518.282

Statistical Performance Check– Radar Type 5 Trial Records (continued)**20 MHz Master - Trial 23**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	3	88.3	19	1022	1840	617.495
2	2	62.2	19	1905	-	282.54
3	2	97.7	19	1723	-	706.86
4	2	64.1	19	1529	-	649.39
5	2	75.3	19	1805	-	492.76
6	2	56.8	19	1084	-	565.95
7	2	61.3	19	1811	-	393.08
8	2	58.2	19	1152	-	221.09
9	2	51.3	19	1794	-	501.47
10	1	94.9	19	-	-	90.69
11	1	74.6	19	-	-	783.14
12	3	77.1	19	1077	1067	334.25
13	2	67.0	19	1256	-	418.6
14	1	84.1	19	-	-	409
15	2	87.0	19	1126	-	366.8

20 MHz Master - Trial 24

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	93.0	20	1465	-	428.674
2	3	86.5	20	1138	1832	564.2
3	3	79.5	20	1256	1655	18.94
4	2	73.8	20	1110	-	1254.03
5	2	78.8	20	1613	-	1413.42
6	3	86.1	20	1658	1897	15.14
7	3	81.6	20	1778	1044	645.12
8	2	87.4	20	1483	-	460

Statistical Performance Check– Radar Type 5 Trial Records (continued)**20 MHz Master - Trial 25**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	89.9	20	1688	-	8.968
2	1	63.4	20	-	-	46.624
3	2	90.7	20	1790	-	414.812
4	2	97.6	20	1788	-	338.343
5	1	60.6	20	-	-	138.884
6	3	60.5	20	1414	1733	196.385
7	2	81.6	20	1618	-	12.956
8	2	57.0	20	1542	-	108.957
9	3	74.7	20	1611	1031	236.328
10	2	58.6	20	1898	-	108.049
11	1	52.5	20	-	-	404.361
12	3	73.1	20	1421	1901	594.882
13	2	81.7	20	1279	-	413.853
14	2	51.2	20	1839	-	166.324
15	2	87.3	20	1590	-	22.315
16	1	99.5	20	-	-	528.616
17	3	99.2	20	1127	1069	28.237
18	3	99.0	20	1626	1052	389.858
19	2	55.5	20	1920	-	340.279

20 MHz Master - Trial 26

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	65.4	16	-	-	744.133
2	3	90.4	16	1469	1132	326.357
3	2	52.9	16	1020	-	726.323
4	1	98.7	16	-	-	743.51
5	3	74.5	16	1048	1068	832.047
6	2	86.1	16	1469	-	21.333
7	1	93.6	16	-	-	490.64
8	3	55.1	16	1418	1696	1065.367
9	2	71.1	16	1356	-	224.833

Statistical Performance Check– Radar Type 5 Trial Records (continued)**20 MHz Master - Trial 27**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	94.8	19	1392	-	142.715
2	2	98.9	19	1209	-	227.861
3	1	55.3	19	-	-	354.37
4	3	53.5	19	1017	1797	269.93
5	3	84.1	19	1452	1119	167.76
6	2	99.1	19	1092	-	385.71
7	2	61.4	19	1295	-	120.91
8	2	89.3	19	1191	-	200.07
9	2	50.1	19	1249	-	442.41
10	3	91.4	19	1872	1388	119.89
11	3	71.2	19	1635	1682	500.04
12	1	51.3	19	-	-	599.43
13	2	80.4	19	1037	-	450.89
14	1	62.4	19	-	-	225.58
15	2	61.8	19	1704	-	559.8
16	3	79.4	19	1583	1937	589.2

20 MHz Master - Trial 28

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	56.3	19	1090	-	84.611
2	2	77.5	19	1513	-	797.061
3	2	77.6	19	1575	-	759.572
4	2	96.8	19	1983	-	194.693
5	2	68.4	19	1073	-	1019.004
6	2	63.8	19	1782	-	440.625
7	2	66.9	19	1870	-	585.275
8	2	90.2	19	1151	-	344.596
9	1	86.7	19	-	-	895.917
10	1	58.7	19	-	-	417.018
11	2	81.4	19	1045	-	670.409

Statistical Performance Check– Radar Type 5 Trial Records (continued)**20 MHz Master - Trial 29**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	76.4	15	-	-	52.907
2	2	75.2	15	1748	-	173.714
3	2	87.1	15	1928	-	51.28
4	1	84.7	15	-	-	255.81
5	1	64.9	15	-	-	388.34
6	1	63.1	15	-	-	447.21
7	2	82.2	15	1923	-	22.4
8	2	69.3	15	1160	-	28.62
9	1	86.3	15	-	-	87.89
10	1	90.4	15	-	-	73.63
11	2	62.1	15	1460	-	175.28
12	1	98.9	15	-	-	480.48
13	3	93.3	15	1777	1461	391.33
14	2	65.4	15	1960	-	509.77
15	2	67.9	15	1319	-	477.89
16	2	95.1	15	1310	-	16.34
17	3	77.8	15	1259	1180	484.7
18	1	67.4	15	-	-	548.7
19	2	96.6	15	1282	-	394.3
20	2	75.0	15	1997	-	576.8

Statistical Performance Check– Radar Type 5 Trial Records (continued)**20 MHz Master - Trial 30**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	86.9	20	1635	-	42.377
2	2	62.7	20	1295	-	378.66
3	1	90.8	20	-	-	117.47
4	1	77.6	20	-	-	742.84
5	2	98.4	20	1778	-	306.58
6	1	87.1	20	-	-	535.61
7	3	61.7	20	1457	1621	418.53
8	3	96.5	20	1507	1799	212.61
9	1	93.8	20	-	-	205.73
10	1	85.0	20	-	-	386.73
11	2	59.5	20	1709	-	52.18
12	2	98.6	20	1024	-	111.97
13	3	81.7	20	1408	1555	447.69
14	2	68.0	20	1596	-	606.2
15	2	89.0	20	1749	-	355.5
16	1	73.3	20	-	-	469.4

Statistical Performance Check– Radar Type 5 Trial Records (continued)**40 MHz Master - Trial 1**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	67.3	5	1103	-	928.188
2	2	86.8	5	1182	-	736.43
3	2	83.3	5	1196	-	692
4	1	58.2	5	-	-	124.35
5	3	73.0	5	1333	1197	367.82
6	2	87.0	5	1526	-	55.09
7	1	96.1	5	-	-	1280.6
8	3	84.7	5	1126	1232	542.8

40 MHz Master - Trial 2

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	73.4	11	1975	-	89.299
2	2	84.5	11	1064	-	913.091
3	2	56.0	11	1817	-	315.362
4	2	55.3	11	1834	-	207.913
5	1	80.7	11	-	-	255.434
6	1	77.4	11	-	-	533.585
7	3	93.9	11	1181	1968	421.975
8	2	88.9	11	1324	-	878.926
9	1	81.5	11	-	-	56.347
10	2	71.1	11	1669	-	1002.918
11	3	89.5	11	1704	1348	194.209

Statistical Performance Check– Radar Type 5 Trial Records (continued)**40 MHz Master - Trial 3**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	87.4	12	1547	-	248.251
2	2	74.1	12	1740	-	4.132
3	1	99.2	12	-	-	372.985
4	3	59.5	12	1308	1241	551.943
5	1	91.2	12	-	-	319.121
6	1	88.2	12	-	-	639.568
7	2	93.0	12	1274	-	324.136
8	2	80.8	12	1475	-	106.064
9	1	93.9	12	-	-	348.281
10	3	98.6	12	1100	1362	428.609
11	3	60.8	12	1425	1180	296.276
12	2	87.8	12	1144	-	424.594
13	2	70.3	12	1714	-	327.672
14	1	52.8	12	-	-	629.379
15	3	54.9	12	1775	1416	67.697
16	2	98.1	12	1626	-	128.465
17	3	87.1	12	1261	1217	11.682

40 MHz Master - Trial 4

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	51.9	17	-	-	1262.54
2	2	92.3	17	1667	-	1062.857
3	1	79.5	17	-	-	822.243
4	2	90.2	17	1212	-	944.13
5	3	84.9	17	1913	1863	1137.107
6	1	91.4	17	-	-	283.333
7	3	86.0	17	1666	1074	1207.62
8	2	97.9	17	1034	-	819.567
9	3	62.8	17	1076	1828	417.633

Statistical Performance Check– Radar Type 5 Trial Records (continued)**40 MHz Master - Trial 5**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	73.5	16	1567	-	212.021
2	2	65.8	16	1234	-	495.01
3	2	90.7	16	1600	-	410.28
4	3	72.2	16	1711	1357	1071.89
5	1	72.1	16	-	-	1097.86
6	1	59.2	16	-	-	682.19
7	2	68.3	16	1036	-	262.1
8	3	83.2	16	1814	1794	1152.62
9	1	94.7	16	-	-	256.03
10	1	82.9	16	-	-	485.2

40 MHz Master - Trial 6

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	89.6	6	1496	-	728.827
2	1	98.8	6	-	-	497.07
3	3	52.4	6	1091	1638	265.69
4	1	92.7	6	-	-	365.5
5	1	92.4	6	-	-	437.52
6	1	68.2	6	-	-	490.71
7	2	81.0	6	1249	-	225.42
8	2	61.1	6	1425	-	415.52
9	2	76.4	6	1876	-	411.64
10	2	80.3	6	1436	-	549.92
11	1	67.6	6	-	-	302.56
12	1	80.5	6	-	-	11.52
13	2	84.1	6	1254	-	212.6
14	2	89.6	6	1420	-	120.74
15	3	52.7	6	1591	1934	523.7
16	2	57.7	6	1175	-	309.4

Statistical Performance Check– Radar Type 5 Trial Records (continued)**40 MHz Master - Trial 7**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	86.1	16	-	-	104.487
2	3	82.5	16	1394	1085	356.34
3	3	93.5	16	1060	1871	585.9
4	1	90.9	16	-	-	858.88
5	3	93.3	16	1988	1327	949.14
6	3	67.0	16	1367	1272	538.7
7	2	57.8	16	1303	-	663
8	2	54.0	16	1508	-	214.4
9	2	81.4	16	1118	-	699.48
10	2	93.7	16	1896	-	250.07
11	2	57.9	16	1423	-	731.6
12	2	57.6	16	1665	-	108.4

40 MHz Master - Trial 8

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	70.5	9	1261	-	540.941
2	2	50.2	9	1206	-	648.143
3	1	75.3	9	-	-	164.767
4	2	84.0	9	1070	-	333.53
5	2	90.7	9	1649	-	491.283
6	2	62.6	9	1798	-	266.487
7	3	56.7	9	1490	1389	546.05
8	3	75.9	9	1888	1294	590.183
9	2	84.9	9	1208	-	261.057
10	1	82.5	9	-	-	306.21
11	1	94.4	9	-	-	627.673
12	1	69.8	9	-	-	550.987
13	2	96.2	9	1232	-	338.16
14	2	54.2	9	1413	-	553.033
15	1	81.2	9	-	-	523.117
16	2	88.0	9	1738	-	566.9
17	1	87.9	9	-	-	556.433
18	1	75.3	9	-	-	337.567

Statistical Performance Check– Radar Type 5 Trial Records (continued)**40 MHz Master - Trial 9**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	66.3	9	-	-	646.044
2	2	62.0	9	1752	-	213.247
3	1	72.1	9	-	-	288.824
4	2	60.4	9	1566	-	237.991
5	2	72.9	9	1744	-	21.169
6	2	75.9	9	1315	-	151.086
7	1	89.6	9	-	-	784.473
8	2	85.1	9	1890	-	835.75
9	3	74.0	9	1357	1691	243.337
10	2	90.7	9	1409	-	521.204
11	3	62.7	9	1604	1352	103.551
12	2	71.4	9	1288	-	352.629
13	3	84.7	9	1944	1626	473.786
14	3	71.0	9	1281	1916	134.043

40 MHz Master - Trial 10

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	68.7	18	1309	-	259.514
2	2	73.7	18	1093	-	677.29
3	3	71.4	18	1442	1675	140.67
4	2	76.5	18	1990	-	345.08
5	1	59.0	18	-	-	889.17
6	2	86.4	18	1235	-	3.99
7	2	65.9	18	1875	-	129.28
8	3	88.5	18	1905	1451	729.02
9	3	63.7	18	1266	1513	1000.5
10	2	83.5	18	1245	-	981.1

Statistical Performance Check– Radar Type 5 Trial Records (continued)**40 MHz Master - Trial 11**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	64.7	17	-	-	594.278
2	1	99.9	17	-	-	202.701
3	1	52.7	17	-	-	352.165
4	2	90.9	17	1196	-	538.263
5	2	99.6	17	1677	-	146.571
6	2	86.9	17	1369	-	45.578
7	2	99.0	17	1592	-	652.826
8	2	97.2	17	1335	-	653.824
9	3	99.4	17	1813	1331	608.071
10	3	88.4	17	1804	1417	0.029
11	2	98.3	17	1250	-	326.646
12	1	75.9	17	-	-	413.114
13	2	66.3	17	1837	-	672.642
14	3	78.5	17	1621	1604	578.269
15	3	82.1	17	1209	1984	589.947
16	1	52.5	17	-	-	574.165
17	2	68.8	17	1894	-	495.082

Statistical Performance Check– Radar Type 5 Trial Records (continued)**40 MHz Master - Trial 12**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	55.5	8	-	-	15.355
2	2	65.7	8	1131	-	564.681
3	2	54.4	8	1082	-	447.412
4	3	80.0	8	1684	1445	570.023
5	1	65.2	8	-	-	251.014
6	3	92.3	8	1396	1578	415.185
7	2	96.6	8	1336	-	311.105
8	2	74.2	8	1546	-	569.356
9	2	85.5	8	1474	-	396.497
10	1	55.7	8	-	-	416.218
11	3	69.1	8	1190	1524	276.409

Statistical Performance Check– Radar Type 5 Trial Records (continued)**40 MHz Master - Trial 13**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	76.9	5	1472	-	519.498
2	1	92.3	5	-	-	128.244
3	2	65.9	5	1384	-	1.252
4	2	70.3	5	1469	-	81.403
5	2	89.9	5	1000	-	189.964
6	3	82.5	5	1513	1275	3.765
7	3	56.4	5	1213	1149	375.886
8	2	67.6	5	1012	-	211.527
9	2	96.9	5	1471	-	277.808
10	2	73.2	5	1726	-	516.229
11	2	76.6	5	1059	-	448.491
12	2	81.5	5	1981	-	442.552
13	2	67.8	5	1780	-	173.383
14	2	63.9	5	1260	-	136.654
15	2	77.3	5	1406	-	517.275
16	2	65.6	5	1687	-	169.236
17	1	76.9	5	-	-	466.837
18	1	91.6	5	-	-	517.358
19	2	94.8	5	1177	-	167.679

Statistical Performance Check– Radar Type 5 Trial Records (continued)**40 MHz Master - Trial 14**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	76.6	18	-	-	586.802
2	2	86.4	18	1026	-	181.382
3	2	75.2	18	1082	-	172.492
4	1	79.4	18	-	-	198.263
5	3	59.9	18	1138	1262	180.824
6	2	93.3	18	1740	-	434.635
7	2	98.8	18	1665	-	319.066
8	3	64.8	18	1181	1493	179.647
9	3	84.7	18	1655	1345	432.538
10	2	97.6	18	1139	-	417.689
11	1	91.4	18	-	-	538.041
12	3	86.1	18	1875	1267	526.072
13	3	96.7	18	1078	1024	167.203
14	1	69.8	18	-	-	60.734
15	1	65.5	18	-	-	550.985
16	2	81.2	18	1521	-	235.496
17	2	79.0	18	1358	-	612.337
18	2	75.5	18	1388	-	164.058
19	2	54.2	18	1151	-	378.279

Statistical Performance Check– Radar Type 5 Trial Records (continued)**40 MHz Master - Trial 15**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	3	96.0	15	1363	1898	134.654
2	2	55.9	15	1007	-	554.63
3	1	84.8	15	-	-	21.91
4	3	77.8	15	1345	1112	486.57
5	2	56.3	15	1124	-	275.87
6	3	82.0	15	1377	1360	788.14
7	1	67.4	15	-	-	676.82
8	2	70.3	15	1557	-	663.67
9	2	53.1	15	1595	-	480.6
10	1	65.7	15	-	-	268.11
11	2	87.9	15	1092	-	616.77
12	1	77.5	15	-	-	79.27
13	2	88.5	15	1323	-	349.89
14	3	98.2	15	1162	1398	203.5
15	1	99.9	15	-	-	323.8

Statistical Performance Check– Radar Type 5 Trial Records (continued)**40 MHz Master - Trial 16**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	91.2	17	1211	-	301.358
2	3	55.9	17	1196	1396	294.86
3	2	83.0	17	1870	-	428.052
4	3	56.7	17	1837	1272	147.823
5	2	97.8	17	1891	-	433.314
6	1	92.9	17	-	-	393.185
7	3	73.3	17	1059	1795	136.206
8	2	81.6	17	1544	-	95.587
9	3	77.0	17	1563	1805	549.278
10	2	99.4	17	1492	-	53.919
11	3	92.2	17	1683	1078	74.141
12	1	57.6	17	-	-	40.002
13	2	88.7	17	1651	-	206.013
14	2	88.2	17	1752	-	389.674
15	1	92.0	17	-	-	74.055
16	3	82.7	17	1024	1277	43.336
17	2	96.0	17	1978	-	379.937
18	2	58.0	17	1591	-	618.058
19	2	79.4	17	1957	-	433.279

40 MHz Master - Trial 17

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	76.9	18	1287	-	309.816
2	1	74.6	18	-	-	123.627
3	2	59.0	18	1806	-	260.333
4	1	97.2	18	-	-	495.55
5	3	54.4	18	1749	1543	1033.407
6	2	84.5	18	1426	-	1111.953
7	3	97.3	18	1350	1870	249.16
8	2	60.8	18	1743	-	134.967
9	1	52.1	18	-	-	307.933

Statistical Performance Check– Radar Type 5 Trial Records (continued)**40 MHz Master - Trial 18**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	94.4	5	-	-	386.461
2	2	93.4	5	1859	-	398.3
3	3	57.2	5	1454	1201	670.69
4	2	78.3	5	1109	-	45.25
5	2	67.9	5	1105	-	931.25
6	1	56.6	5	-	-	672.22
7	1	87.7	5	-	-	142.66
8	3	84.8	5	1608	1722	631.82
9	2	73.3	5	1177	-	41.91
10	1	66.8	5	-	-	660.98
11	2	88.9	5	1714	-	140.5
12	3	68.6	5	1014	1082	666.6

40 MHz Master - Trial 19

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	92.0	13	-	-	863.593
2	1	81.2	13	-	-	710.77
3	1	79.7	13	-	-	972.54
4	3	52.3	13	1629	1591	484.8
5	1	71.5	13	-	-	606.78
6	2	87.0	13	1939	-	84.9
7	2	84.0	13	1429	-	379.15
8	2	83.1	13	1084	-	783.65
9	2	94.9	13	1902	-	96.5
10	2	74.0	13	1040	-	154.81
11	3	77.5	13	1503	1269	818.8
12	2	99.2	13	1950	-	223.9

Statistical Performance Check– Radar Type 5 Trial Records (continued)**40 MHz Master - Trial 20**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	3	73.5	14	1325	1260	344.578
2	1	83.4	14	-	-	312.928
3	2	59.0	14	1478	-	76.545
4	1	75.1	14	-	-	554.403
5	2	82.6	14	1681	-	285.871
6	3	88.5	14	1481	1939	473.788
7	2	78.5	14	1733	-	377.236
8	1	97.6	14	-	-	534.574
9	1	94.4	14	-	-	549.641
10	2	84.0	14	1730	-	418.719
11	2	64.4	14	1385	-	526.396
12	2	78.2	14	1015	-	262.214
13	3	94.4	14	1744	1177	402.712
14	2	88.6	14	1996	-	420.549
15	1	58.7	14	-	-	123.047
16	2	55.1	14	1721	-	23.965
17	2	55.5	14	1951	-	515.882

Statistical Performance Check– Radar Type 5 Trial Records (continued)**40 MHz Master - Trial 21**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	74.0	11	1640	-	288.871
2	1	55.0	11	-	-	460.87
3	2	85.0	11	1610	-	42.84
4	2	76.1	11	1750	-	624.15
5	3	96.3	11	1139	1059	589.23
6	2	86.3	11	1315	-	81.26
7	2	95.8	11	1441	-	723.68
8	1	69.7	11	-	-	56.6
9	3	74.1	11	1826	1186	193.89
10	2	76.1	11	1409	-	216.83
11	2	89.3	11	1687	-	360.18
12	2	80.7	11	1311	-	184.73
13	1	80.7	11	-	-	324.41
14	1	92.7	11	-	-	632.4
15	2	68.2	11	1908	-	184.2
16	2	97.7	11	1328	-	538.9

Statistical Performance Check– Radar Type 5 Trial Records (continued)**40 MHz Master - Trial 22**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	50.2	14	-	-	302.477
2	1	79.1	14	-	-	337.494
3	2	64.6	14	1486	-	63.12
4	2	80.0	14	1210	-	487.4
5	3	78.1	14	1032	1172	270.11
6	2	97.8	14	1944	-	194.37
7	1	76.7	14	-	-	377.35
8	2	97.8	14	1183	-	181.18
9	1	77.2	14	-	-	277.43
10	3	56.0	14	1672	1613	258.39
11	2	89.8	14	1675	-	377.11
12	1	87.8	14	-	-	575.77
13	2	52.3	14	1786	-	156.22
14	2	51.6	14	1561	-	534.23
15	1	61.6	14	-	-	2.75
16	1	52.3	14	-	-	261.94
17	2	62.8	14	1119	-	322
18	1	52.3	14	-	-	140.7
19	2	88.8	14	1421	-	5.6
20	1	61.0	14	-	-	326.2

Statistical Performance Check– Radar Type 5 Trial Records (continued)**40 MHz Master - Trial 23**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	83.0	18	1110	-	389.441
2	1	93.8	18	-	-	631.64
3	1	97.5	18	-	-	23.94
4	3	70.0	18	1375	1082	531.32
5	1	90.2	18	-	-	105.47
6	2	94.9	18	1834	-	166.57
7	2	65.0	18	1224	-	470.65
8	1	65.1	18	-	-	365.36
9	2	53.7	18	1663	-	33.42
10	2	85.9	18	1637	-	734.2
11	3	74.1	18	1278	1533	684.7
12	2	52.4	18	1066	-	729.88
13	1	56.2	18	-	-	251.13
14	1	95.3	18	-	-	60.8
15	2	74.5	18	1753	-	314.8

40 MHz Master - Trial 24

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	3	81.1	14	1766	1648	707.542
2	2	67.8	14	1096	-	753.71
3	2	96.0	14	1150	-	532.52
4	2	68.0	14	1315	-	967.31
5	3	65.7	14	1056	1029	666.63
6	2	70.3	14	1471	-	572
7	1	82.7	14	-	-	724.75
8	2	81.7	14	1861	-	364.82
9	2	60.9	14	1001	-	445.77
10	3	64.6	14	1470	1676	408.02
11	1	76.1	14	-	-	481.5
12	2	66.4	14	1357	-	207.4

Statistical Performance Check– Radar Type 5 Trial Records (continued)**40 MHz Master - Trial 25**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	51.8	10	1903	-	375.817
2	1	58.1	10	-	-	5.642
3	2	69.9	10	1172	-	135.387
4	2	52.4	10	1698	-	22.37
5	3	52.8	10	1284	1696	26.323
6	2	61.7	10	1126	-	264.017
7	2	69.0	10	1571	-	391.9
8	3	81.9	10	1328	1740	613.393
9	2	72.9	10	1815	-	203.497
10	2	61.2	10	1035	-	166.86
11	2	57.6	10	1746	-	598.863
12	2	80.0	10	1002	-	336.767
13	3	99.0	10	1345	1035	102.91
14	3	83.5	10	1165	1119	17.643
15	1	71.4	10	-	-	107.897
16	1	66.1	10	-	-	30.8
17	3	51.6	10	1180	1303	2.133
18	2	68.6	10	1904	-	182.767

Statistical Performance Check– Radar Type 5 Trial Records (continued)**40 MHz Master - Trial 26**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	84.0	15	1741	-	666.755
2	2	58.0	15	1069	-	631.96
3	3	83.4	15	1087	1373	383.6
4	2	68.8	15	1511	-	359.46
5	3	89.7	15	1604	1556	751.58
6	2	89.0	15	1884	-	717.06
7	2	89.0	15	1277	-	86.88
8	2	72.1	15	1308	-	719.73
9	2	68.5	15	1262	-	835.16
10	2	76.1	15	1748	-	70.86
11	1	99.2	15	-	-	298.8
12	1	89.4	15	-	-	837.1

40 MHz Master - Trial 27

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	52.0	7	1321	-	131.77
2	2	77.6	7	1138	-	677.177
3	3	88.0	7	1003	1268	118.954
4	1	61.3	7	-	-	787.321
5	2	88.8	7	1373	-	240.259
6	2	61.6	7	1714	-	523.566
7	3	92.7	7	1657	1711	521.113
8	2	58.0	7	1515	-	259.78
9	2	90.6	7	1721	-	222.607
10	1	57.8	7	-	-	419.404
11	3	86.2	7	1916	1147	100.211
12	2	52.5	7	1542	-	520.719
13	3	70.5	7	1950	1738	757.986
14	2	60.7	7	1840	-	61.443

Statistical Performance Check– Radar Type 5 Trial Records (continued)**40 MHz Master - Trial 28**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	77.2	20	1326	-	87.681
2	1	58.6	20	-	-	320.287
3	2	59.5	20	1080	-	28.774
4	2	85.1	20	1376	-	17.721
5	3	96.8	20	1186	1352	735.969
6	2	73.3	20	1093	-	76.756
7	2	75.1	20	1253	-	311.073
8	2	97.3	20	1089	-	70.96
9	2	66.2	20	1044	-	646.207
10	2	57.7	20	1180	-	265.714
11	2	73.0	20	1999	-	342.141
12	1	63.5	20	-	-	733.729
13	2	90.7	20	1548	-	552.986
14	1	95.8	20	-	-	611.843

40 MHz Master - Trial 29

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	76.5	14	1787	-	1404.69
2	2	97.5	14	1460	-	260.68
3	3	88.1	14	1262	1247	172.53
4	1	91.3	14	-	-	1198.45
5	2	81.8	14	1423	-	138.29
6	2	58.0	14	1088	-	452.55
7	1	64.9	14	-	-	295.09
8	3	78.4	14	1504	1337	1481.6

Statistical Performance Check– Radar Type 5 Trial Records (continued)**40 MHz Master - Trial 30**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	3	56.9	20	1801	1073	204.079
2	3	76.0	20	1060	1006	201.429
3	1	61.1	20	-	-	342.452
4	2	65.3	20	1752	-	286.163
5	2	77.7	20	1359	-	578.334
6	1	87.3	20	-	-	74.755
7	2	60.8	20	1131	-	214.706
8	2	87.5	20	1137	-	137.967
9	3	59.6	20	1984	1524	416.768
10	2	65.0	20	1555	-	406.279
11	3	86.3	20	1435	1732	240.741
12	2	69.7	20	1302	-	403.582
13	2	95.7	20	1857	-	525.573
14	1	60.0	20	-	-	176.314
15	2	55.0	20	1269	-	595.835
16	2	79.5	20	1643	-	430.976
17	1	76.7	20	-	-	49.237
18	2	74.4	20	1844	-	132.458
19	3	79.5	20	1569	1952	144.579

Statistical Performance Check– Radar Type 5 Trial Records (continued)**80 MHz Master - Trial 1**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	97.5	17	1647	-	446.668
2	2	76.8	17	1888	-	803.553
3	1	97.3	17	-	-	424.406
4	3	92.7	17	1727	1697	144.379
5	3	93.4	17	1675	1617	692.002
6	2	56.2	17	1215	-	556.975
7	2	51.0	17	1024	-	167.698
8	2	70.0	17	1315	-	245.912
9	2	86.6	17	1676	-	345.215
10	3	50.2	17	1977	1788	291.908
11	1	68.3	17	-	-	523.531
12	2	84.6	17	1605	-	820.354
13	3	67.9	17	1667	1081	78.377

80 MHz Master - Trial 2

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	51.4	14	1069	-	653.877
2	3	66.7	14	1018	1506	79.723
3	2	87.8	14	1144	-	171.376
4	1	77.5	14	-	-	450.359
5	3	74.4	14	1545	1130	476.412
6	3	93.2	14	1431	1394	734.575
7	2	50.7	14	1890	-	304.548
8	1	87.1	14	-	-	411.002
9	3	96.5	14	1122	1397	210.025
10	1	95.0	14	-	-	802.738
11	2	63.8	14	1126	-	59.031
12	3	86.6	14	1948	1567	0.554
13	3	61.7	14	1119	1236	257.477

Statistical Performance Check– Radar Type 5 Trial Records (continued)**80 MHz Master - Trial 3**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	82.9	20	1003	-	43.938
2	1	96.7	20	-	-	133.957
3	2	64.7	20	1092	-	42.045
4	3	71.3	20	1892	1921	664.703
5	2	68.7	20	1818	-	460.331
6	3	50.1	20	1076	1950	151.328
7	1	68.0	20	-	-	436.646
8	1	99.1	20	-	-	459.444
9	2	76.2	20	1774	-	566.761
10	2	84.7	20	1777	-	576.169
11	1	93.4	20	-	-	87.306
12	3	65.5	20	1174	1180	559.714
13	2	61.4	20	1168	-	534.872
14	1	73.7	20	-	-	213.479
15	1	63.8	20	-	-	17.577
16	2	65.0	20	1437	-	489.665
17	2	84.3	20	1778	-	28.382

Statistical Performance Check– Radar Type 5 Trial Records (continued)**80 MHz Master - Trial 4**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	3	75.6	10	1616	1451	568.757
2	2	56.8	10	1629	-	375.72
3	1	51.0	10	-	-	623.79
4	2	93.7	10	1661	-	41
5	1	73.1	10	-	-	56.78
6	2	92.8	10	1360	-	107.53
7	2	64.8	10	1326	-	331.7
8	3	87.3	10	1073	1572	80.36
9	2	72.2	10	1464	-	346.52
10	2	79.5	10	1342	-	620.38
11	3	66.4	10	1584	1571	624.83
12	2	71.4	10	1761	-	519.7
13	1	52.3	10	-	-	294.11
14	3	64.8	10	1839	1840	330.2
15	2	88.7	10	1236	-	614.7
16	2	70.8	10	1017	-	373.2

80 MHz Master - Trial 5

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	74.6	13	1145	-	1094.89
2	2	51.1	13	1603	-	831.78
3	2	80.3	13	1206	-	496.07
4	1	61.1	13	-	-	380.33
5	2	57.1	13	1784	-	555.09
6	2	74.1	13	1237	-	270.81
7	3	95.5	13	1521	1470	1265.5
8	2	79.2	13	1705	-	1054.9

Statistical Performance Check– Radar Type 5 Trial Records (continued)**80 MHz Master - Trial 6**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	55.5	8	-	-	143.207
2	3	71.1	8	1966	1337	575.893
3	1	54.8	8	-	-	115.546
4	1	50.5	8	-	-	505.619
5	2	82.2	8	1355	-	800.142
6	3	71.6	8	1186	1139	755.015
7	2	91.7	8	1364	-	534.618
8	2	57.0	8	1181	-	877.742
9	3	89.0	8	1553	1957	679.325
10	2	98.6	8	1764	-	855.038
11	2	66.8	8	1604	-	252.781
12	3	93.2	8	1692	1538	503.054
13	2	57.0	8	1378	-	887.177

80 MHz Master - Trial 7

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	53.8	9	1550	-	467.916
2	2	77.1	9	1709	-	406.651
3	1	91.1	9	-	-	955.952
4	2	79.2	9	1914	-	931.293
5	3	83.0	9	1750	1799	756.754
6	1	63.4	9	-	-	155.175
7	1	95.3	9	-	-	824.245
8	2	68.6	9	1199	-	263.036
9	1	78.1	9	-	-	255.517
10	2	88.5	9	1687	-	801.218
11	2	71.8	9	1453	-	415.009

Statistical Performance Check– Radar Type 5 Trial Records (continued)**80 MHz Master - Trial 8**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	86.9	9	-	-	498.217
2	2	58.2	9	1334	-	645.27
3	1	96.1	9	-	-	130.99
4	2	84.7	9	1135	-	106.86
5	1	84.9	9	-	-	437.48
6	1	76.9	9	-	-	531.46
7	3	63.1	9	1483	1807	222.39
8	1	86.3	9	-	-	726.33
9	2	72.8	9	1664	-	621.49
10	3	95.1	9	1927	1703	661.76
11	3	57.9	9	1396	1644	679.93
12	3	76.8	9	1361	1516	39.2
13	2	77.1	9	1373	-	337.14
14	2	98.1	9	1858	-	105.19
15	1	54.8	9	-	-	416.7
16	2	82.4	9	1148	-	587

80 MHz Master - Trial 9

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	3	78.7	18	1749	1235	344.506
2	2	89.3	18	1836	-	632.337
3	3	97.5	18	1894	1182	753.074
4	2	86.2	18	1591	-	358.921
5	1	87.0	18	-	-	75.729
6	2	54.6	18	1081	-	264.286
7	2	78.0	18	1205	-	834.053
8	2	56.1	18	1562	-	162.72
9	2	57.3	18	1907	-	716.617
10	1	75.1	18	-	-	246.004
11	2	76.5	18	1769	-	414.361
12	2	82.3	18	1577	-	355.019
13	2	58.1	18	1463	-	791.186
14	3	54.9	18	1921	1942	391.443

Statistical Performance Check– Radar Type 5 Trial Records (continued)**80 MHz Master - Trial 10**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	3	95.8	20	1136	1396	381.824
2	2	65.3	20	1392	-	843.98
3	1	74.4	20	-	-	365.98
4	1	66.4	20	-	-	707.82
5	1	52.0	20	-	-	813.14
6	1	99.1	20	-	-	248.51
7	1	99.8	20	-	-	878.77
8	2	87.7	20	1874	-	907

80 MHz Master - Trial 11

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	89.7	9	-	-	567.221
2	2	92.1	9	1882	-	597.021
3	3	90.4	9	1490	1778	538.032
4	2	86.6	9	1882	-	231.443
5	1	70.0	9	-	-	86.954
6	2	59.8	9	1182	-	458.765
7	3	50.3	9	1022	1451	262.636
8	2	83.7	9	1533	-	79.797
9	2	99.2	9	1898	-	462.278
10	2	53.6	9	1034	-	393.889
11	3	93.4	9	1726	1508	406.381
12	2	97.7	9	1466	-	553.102
13	2	73.1	9	1246	-	151.093
14	3	63.6	9	1666	1173	39.854
15	1	79.3	9	-	-	323.355
16	3	85.5	9	1201	1405	531.316
17	1	84.0	9	-	-	386.637
18	2	79.7	9	1819	-	259.458
19	3	62.8	9	1926	1893	295.979

Statistical Performance Check– Radar Type 5 Trial Records (continued)**80 MHz Master - Trial 12**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	68.7	8	-	-	612.639
2	2	74.8	8	1755	-	474.927
3	2	65.4	8	1946	-	468.784
4	2	69.5	8	1188	-	222.181
5	2	91.3	8	1910	-	524.079
6	2	71.6	8	1583	-	820.246
7	3	64.3	8	1608	1428	703.473
8	2	72.3	8	1412	-	282.63
9	2	70.6	8	1306	-	785.477
10	3	70.7	8	1546	1356	403.154
11	1	65.6	8	-	-	374.151
12	1	64.6	8	-	-	721.829
13	2	93.8	8	1841	-	691.986
14	2	68.2	8	1790	-	201.943

80 MHz Master - Trial 13

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	79.3	13	1945	-	728.74
2	1	96.9	13	-	-	472.07
3	1	74.3	13	-	-	276.65
4	2	98.8	13	1837	-	206.82
5	2	73.4	13	1558	-	722.33
6	3	52.8	13	1324	1571	432.01
7	3	91.8	13	1739	1848	479.62
8	2	85.5	13	1259	-	154.75
9	2	81.7	13	1373	-	458.89
10	1	78.0	13	-	-	166.56
11	2	97.5	13	1012	-	227.18
12	1	63.2	13	-	-	613.88
13	1	63.7	13	-	-	324.7
14	2	87.9	13	1916	-	511.8
15	2	80.3	13	1432	-	576.7

Statistical Performance Check– Radar Type 5 Trial Records (continued)**80 MHz Master - Trial 14**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	78.7	11	-	-	640.343
2	1	99.0	11	-	-	1014.17
3	1	63.5	11	-	-	1046.36
4	3	68.5	11	1155	1024	909.01
5	3	77.2	11	1476	1994	266.5
6	2	83.8	11	1410	-	879.94
7	2	88.7	11	1562	-	777.95
8	1	90.0	11	-	-	55.71
9	3	81.9	11	1504	1297	711.5
10	2	60.0	11	1865	-	243.5

80 MHz Master - Trial 15

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	3	87.6	19	1314	1100	316.016
2	2	83.0	19	1405	-	36.099
3	2	92.0	19	1294	-	69.277
4	1	59.3	19	-	-	85.55
5	3	66.9	19	1662	1439	43.593
6	2	78.9	19	1444	-	391.797
7	3	53.3	19	1578	1392	531.53
8	1	66.2	19	-	-	408.593
9	2	66.2	19	1256	-	33.917
10	3	50.0	19	1258	1420	498.34
11	1	88.1	19	-	-	194.703
12	1	54.2	19	-	-	600.377
13	3	88.8	19	1502	1007	574.05
14	2	64.0	19	1182	-	376.573
15	1	98.7	19	-	-	184.037
16	2	90.3	19	1305	-	144.5
17	3	59.2	19	1635	1845	548.133
18	2	87.7	19	1415		421.667

Statistical Performance Check– Radar Type 5 Trial Records (continued)**80 MHz Master - Trial 16**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	88.3	5	1902	-	237.35
2	2	62.0	5	1531	-	185.313
3	2	53.5	5	1826	-	207.216
4	3	58.0	5	1490	1103	862.609
5	2	79.1	5	1212	-	170.102
6	1	98.4	5	-	-	268.535
7	1	50.9	5	-	-	829.798
8	2	51.6	5	1995	-	645.272
9	1	90.7	5	-	-	464.325
10	1	54.9	5	-	-	847.768
11	2	70.4	5	1455	-	350.651
12	2	82.5	5	1096	-	281.154
13	2	61.6	5	1806	-	686.777

80 MHz Master - Trial 17

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	65.6	18	1317	-	634.067
2	2	88.2	18	1590	-	672.317
3	1	68.5	18	-	-	779.984
4	2	68.5	18	1749	-	134.081
5	2	67.3	18	1857	-	641.919
6	3	51.1	18	1397	1043	561.786
7	2	61.7	18	1688	-	221.133
8	2	64.2	18	1263	-	297.5
9	2	89.7	18	1035	-	644.677
10	3	99.4	18	1315	1383	97.654
11	2	99.9	18	1329	-	496.591
12	2	99.6	18	1706	-	417.549
13	3	73.9	18	1432	1329	181.486
14	2	61.1	18	1736	-	527.343

Statistical Performance Check– Radar Type 5 Trial Records (continued)**80 MHz Master - Trial 18**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	53.1	15	1584	-	42.313
2	2	81.6	15	1108	-	680.513
3	3	86.2	15	1347	1840	276.926
4	2	89.8	15	1645	-	600.089
5	2	58.0	15	1475	-	590.752
6	3	50.3	15	1057	1911	419.575
7	3	63.5	15	1182	1218	358.168
8	2	52.7	15	1935	-	899.712
9	3	72.3	15	1490	1793	486.235
10	2	77.6	15	1800	-	63.838
11	2	58.7	15	1085	-	469.651
12	1	84.6	15	-	-	294.354
13	1	92.6	15	-	-	717.977

80 MHz Master - Trial 19

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	51.8	12	-	-	613.523
2	1	66.8	12	-	-	1207.3
3	2	95.0	12	1423	-	249.51
4	1	67.3	12	-	-	939.33
5	1	85.2	12	-	-	181.47
6	1	84.1	12	-	-	1299.04
7	2	84.7	12	1633	-	619.7
8	2	50.3	12	1584	-	519.4

Statistical Performance Check– Radar Type 5 Trial Records (continued)**80 MHz Master - Trial 20**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	59.5	13	1791	-	114.177
2	3	77.9	13	1778	1417	496.943
3	3	68.5	13	1915	1183	251.626
4	2	95.8	13	1158	-	152.999
5	2	99.8	13	1715	-	769.062
6	2	59.7	13	1575	-	81.915
7	2	84.9	13	1674	-	264.308
8	2	83.5	13	1286	-	234.502
9	1	92.0	13	-	-	202.035
10	1	70.0	13	-	-	619.878
11	2	75.5	13	1861	-	301.681
12	2	63.7	13	1061	-	199.354
13	2	82.2	13	1230	-	542.777

80 MHz Master - Trial 21

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	94.4	10	1427	-	1060.34
2	2	99.7	10	1084	-	83.241
3	2	56.0	10	1433	-	448.322
4	2	100.0	10	1154	-	1003.393
5	2	59.1	10	1414	-	434.374
6	2	74.1	10	1945	-	121.875
7	2	94.5	10	1404	-	790.635
8	2	57.1	10	1684	-	380.966
9	2	92.0	10	1276	-	902.937
10	2	60.5	10	1625	-	227.518
11	2	95.5	10	1466	-	1062.209

Statistical Performance Check– Radar Type 5 Trial Records (continued)**80 MHz Master - Trial 22**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	3	99.4	15	1940	1809	341.368
2	1	90.7	15	-	-	448.093
3	3	63.8	15	1768	1199	175.837
4	2	86.4	15	1316	-	375.97
5	2	96.5	15	1548	-	153.163
6	2	54.8	15	1538	-	428.117
7	1	57.9	15	-	-	229.7
8	2	68.7	15	1442	-	317.343
9	3	84.6	15	1055	1511	214.507
10	2	65.2	15	1087	-	20.06
11	3	87.3	15	1982	1056	76.083
12	2	76.1	15	1317	-	455.837
13	2	65.4	15	1385	-	50.25
14	1	60.1	15	-	-	565.033
15	2	72.1	15	1199	-	533.677
16	2	82.8	15	1389	-	406.2
17	3	55.4	15	1886	1117	129.933
18	2	75.2	15	1571	-	27.567

Statistical Performance Check– Radar Type 5 Trial Records (continued)**80 MHz Master - Trial 23**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	61.1	6	1017	-	181.716
2	2	70.1	6	1418	-	174.537
3	1	77.1	6	-	-	197.044
4	3	50.6	6	1842	1004	266.721
5	2	60.7	6	1869	-	206.699
6	1	53.3	6	-	-	636.406
7	1	66.7	6	-	-	510.063
8	3	58.9	6	1487	1271	248.6
9	1	72.6	6	-	-	329.907
10	2	69.6	6	1255	-	364.644
11	2	85.8	6	1420	-	2.611
12	1	95.8	6	-	-	225.919
13	3	68.5	6	1470	1408	27.686
14	1	78.7	6	-	-	512.043

80 MHz Master - Trial 24

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	76.5	8	1779	-	2.771
2	2	67.8	8	1718	-	175.982
3	1	79.3	8	-	-	13.77
4	2	69.1	8	1981	-	453.47
5	1	95.5	8	-	-	280.27
6	3	78.8	8	1855	1342	183.08
7	2	75.1	8	1870	-	93.55
8	3	76.8	8	1641	1806	291.9
9	3	57.7	8	1388	1497	329.98
10	1	98.7	8	-	-	263.1
11	2	67.0	8	1983	-	32.46
12	2	89.0	8	1635	-	262.89
13	3	62.5	8	1598	1370	620.02
14	1	53.6	8	-	-	485.5
15	2	80.1	8	1312	-	305.6
16	3	86.4	8	1834	1452	668.1

Statistical Performance Check– Radar Type 5 Trial Records (continued)**80 MHz Master - Trial 25**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	73.0	7	1511	-	1117.37
2	2	94.8	7	1076	-	181.41
3	2	97.8	7	1837	-	1047.75
4	2	57.7	7	1286	-	1135.75
5	2	50.5	7	1772	-	341.72
6	2	79.5	7	1304	-	1031.12
7	2	60.3	7	1059	-	820.5
8	2	63.1	7	1419	-	34.39
9	3	52.7	7	1589	1789	517.7
10	1	68.0	7	-	-	1089.8

80 MHz Master - Trial 26

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	89.3	14	-	-	742.392
2	2	71.7	14	1536	-	264.017
3	1	65.7	14	-	-	749.934
4	2	71.4	14	1603	-	426.161
5	3	69.9	14	1218	1340	698.339
6	3	51.9	14	1343	1082	338.586
7	2	53.8	14	1619	-	641.693
8	1	58.2	14	-	-	71.41
9	3	92.3	14	1227	1124	653.997
10	1	55.5	14	-	-	379.514
11	3	98.0	14	1225	1575	186.781
12	1	54.2	14	-	-	309.739
13	1	89.5	14	-	-	116.086
14	2	75.4	14	1040	-	647.943

Statistical Performance Check– Radar Type 5 Trial Records (continued)**80 MHz Master - Trial 27**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	95.3	14	1409	-	1116.44
2	2	50.1	14	1544	-	421.967
3	1	94.3	14	-	-	1183.613
4	2	52.7	14	1294	-	1129.97
5	3	86.1	14	1356	1113	801.087
6	2	60.5	14	1333	-	1280.273
7	2	61.7	14	1557	-	1008
8	1	64.9	14	-	-	1245.767
9	3	51.7	14	1069	1199	530.733

80 MHz Master - Trial 28

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	3	58.0	12	1175	1787	178.974
2	2	66.4	12	1373	-	462.49
3	2	65.5	12	1918	-	267.92
4	1	82.2	12	-	-	277.69
5	3	61.3	12	1184	1714	260.9
6	2	60.0	12	1971	-	340.65
7	2	91.6	12	1516	-	564.09
8	2	72.1	12	1507	-	128.56
9	2	80.3	12	1399	-	469.21
10	1	54.1	12	-	-	204.04
11	3	52.3	12	1094	1035	292.54
12	3	61.1	12	1001	1218	111.39
13	1	72.5	12	-	-	347.14
14	3	50.1	12	1699	1497	573.2
15	1	96.4	12	-	-	531.95
16	2	91.8	12	1899	-	24.65
17	2	85.5	12	1863	-	95.88
18	2	88.2	12	1879	-	441.9
19	2	51.2	12	1275	-	205.3
20	2	96.3	12	1030	-	292.7

Statistical Performance Check– Radar Type 5 Trial Records (continued)**80 MHz Master - Trial 29**

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	1	75.0	17	-	-	489.245
2	2	78.0	17	1403	-	208.461
3	2	59.7	17	1285	-	1047.152
4	2	64.3	17	1400	-	487.123
5	2	52.9	17	1649	-	163.524
6	2	81.6	17	1326	-	497.415
7	2	95.0	17	1926	-	90.055
8	2	64.8	17	1072	-	103.246
9	2	74.3	17	1008	-	207.877
10	3	67.8	17	1308	1797	520.218
11	2	76.3	17	1496	-	528.609

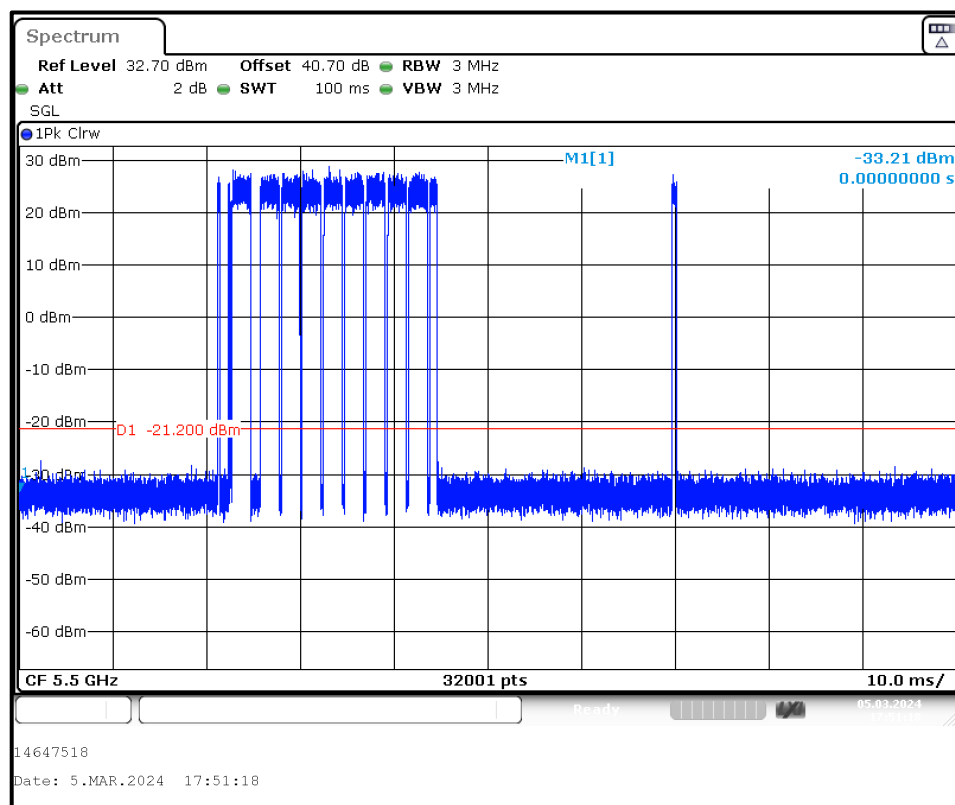
80 MHz Master - Trial 30

Burst Segment	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Starting Location Within Interval (μsec)
1	2	91.2	12	1095	-	638.284
2	2	62.1	12	1978	-	423.84
3	3	93.5	12	1218	1821	514.12
4	2	92.1	12	1455	-	80.41
5	2	52.0	12	1740	-	1.53
6	2	72.8	12	1097	-	238.21
7	1	54.8	12	-	-	409.72
8	1	94.3	12	-	-	447.25
9	1	99.6	12	-	-	469.78
10	3	84.3	12	1513	1073	26.85
11	3	82.8	12	1319	1338	110.24
12	2	80.8	12	1494	-	298
13	1	99.8	12	-	-	129.89
14	2	68.5	12	1467	-	715.4
15	2	68.0	12	1700	-	687.5

Appendix 9. Channel Loading

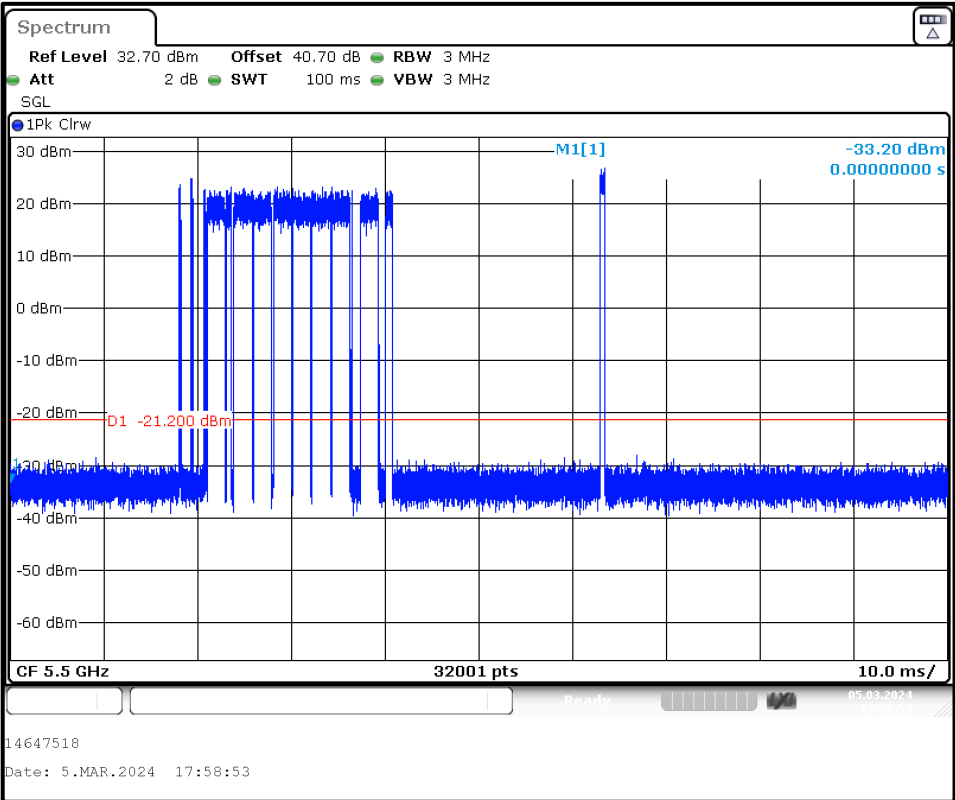
UDP data was transmitted from the EUT to the companion device. 100 ms of transmissions showing both the EUT and companion device were then captured on a spectrum analyser in the time domain. The spectrum analyser was set to 30,001 sweep points giving a sample size accuracy of 3.333 μ sec. The data points were then exported as an ASCII file and each sample determined to be either transmissions from the EUT or companion device (channel loading) or idle. The duty cycle was then calculated from this ratio.

Included below are spectrum analyser plots from which the raw data was extracted to calculate the channel loading.

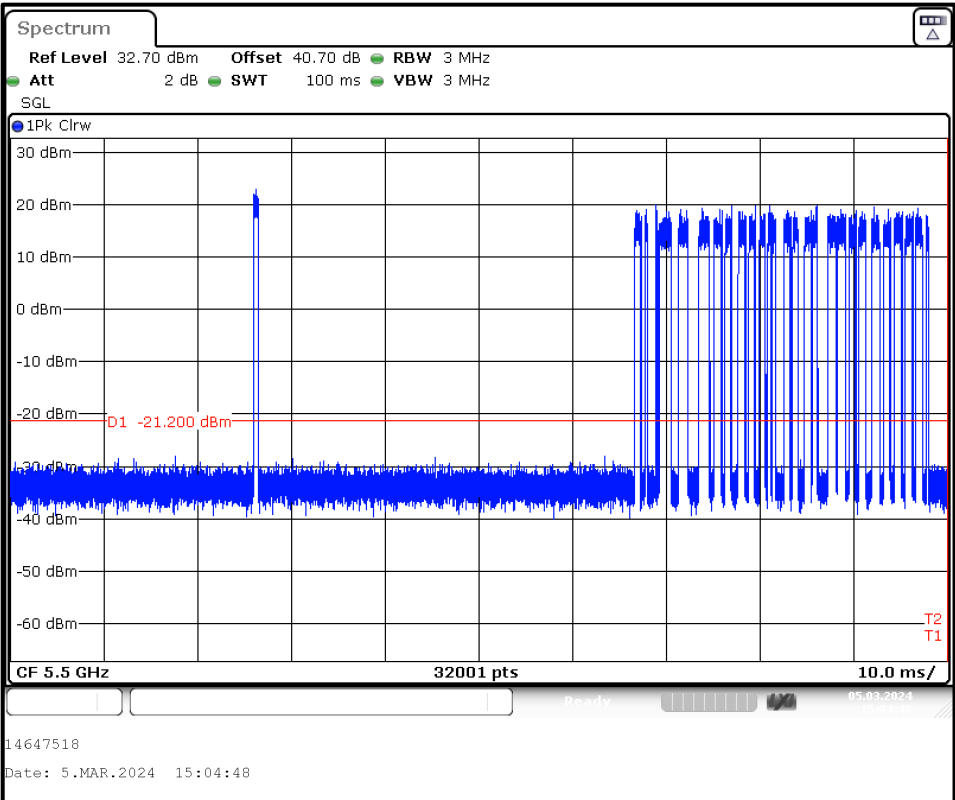


19.2% Channel Loading at 20 MHz Bandwidth

Channel Loading (continued)



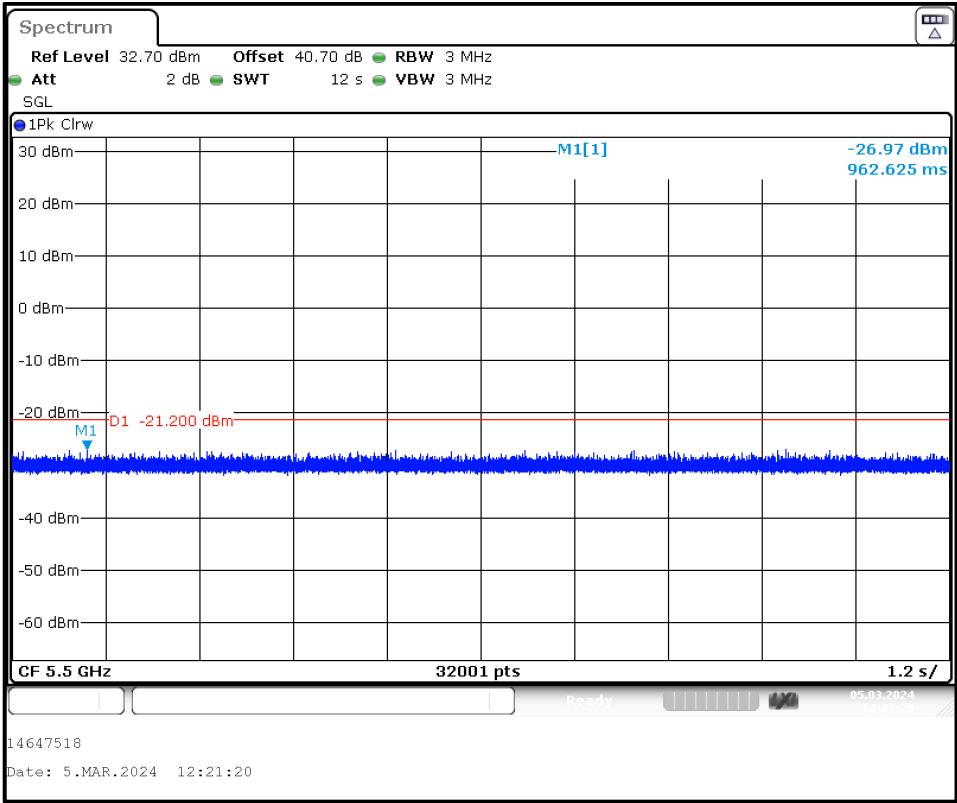
17.9% Channel Loading at 40 MHz Bandwidth



18.9% Channel Loading at 80 MHz Bandwidth

Appendix 10. Noise Floor Plots

Noise floor plots are presented below as required by 905462 D02 8.3 d) 3).



Test System Noise Floor

--- END OF REPORT ---