



DFS MEASUREMENT REPORT

FCC ID: R68NTC551
Applicant: Lantronix, Inc.
Product: 5G Industrial IOT Router
Model No.: NTC-551
Brand Name: Lantronix
FCC Classification: Unlicensed National Information Infrastructure (NII)
FCC Rule Part(s): Part 15 Subpart E (Section 15.407)
Type of Device: Master
Result: Complies
Received Date: 2023-11-30
Test Date: 2023-12-21 ~ 2023-12-22

Reviewed By:

Sunny Sun

Approved By:

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 905462. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2310RSU045-U6	V01	Initial Report	2024-01-25	Invalid
2310RSU045-U6	V02	Modify applicant & manufacturer information	2025-06-17	Valid

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1.4. Product Information

Product Name	5G Industrial IOT Router
Model No.	NTC-551
EUT Identification No.	20231130Sample#09
Bluetooth Specification	V4.0 Bluetooth-LE
GNSS Specification	GPS/Galileo/GLONASS/BDS
Wi-Fi Specification	802.11a/b/g/n/ac/ax
3GPP Specification	LTE Band 2/4/5/7/12/13/14/17/25/26/29/30/38/41/42/43/46/48/66/71 NR SA/NSA Band n2/5/7/12/13/14/25/26/29/30/38/41/48/66/70/71/77/78
Operating Temp.	-30 ~ 70 °C
Working Voltage	DC 8V ~ 40V
Power Type	AC/DC adapter
Integrated WWAN Modular Information	
Modular Name	5G Sub-6 GHz LGA Module
Mode No.	RG520N-NA
FCC ID	XMR2023RG520NNA
Manufacturer	QUECTEL
Integrated Wi-Fi Modular Information	
Modular Name	Wi-Fi & Bluetooth Module
Mode No.	FC64E
FCC ID	XMR202208FC64E
Manufacturer	QUECTEL
Accessory	
AC/DC adapter	Model: AD0361-1203000F Input: 100-240V ~ 50/60Hz 1.0A Max Output: 12.0V, 3.0A 36W
<p>Note 1: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.</p> <p>Note 2: This device is based on the certification modular to assess the Statistical Performance Check.</p> <p>Note 3: The Bluetooth BLE function of the device is implemented by ESP32-D0WDQ6-V3 chipset.</p>	

1.5. Radio Specification under Test

Frequency Range	For 802.11a/n-HT20/ac-VHT20/ax-HE20: 5260~5320MHz, 5500~5700MHz For 802.11n-HT40/ac-VHT40/ax-HE40: 5270~5310MHz, 5510~5670MHz For 802.11ac-VHT80/ax-HE80: 5290MHz, 5530MHz, 5610 MHz
Type of Modulation	802.11a/n/ac: OFDM 802.11ax: OFDMA
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ac: up to 866.6Mbps 802.11ax: up to 1201Mbps
Uniform Spreading (For DFS Frequency Band)	For the 5250-5350MHz, 5470-5725MHz bands, the Master device provides, on aggregate, uniform loading of the spectrum across all devices by selecting an operating channel among the available channels using a random algorithm.

1.6. Working Frequencies

802.11a/n-HT20/ac-VHT20/ax-HE20

Channel	Frequency	Channel	Frequency	Channel	Frequency
52	5260 MHz	56	5280 MHz	60	5300 MHz
64	5320 MHz	100	5500 MHz	104	5520 MHz
108	5540 MHz	112	5560 MHz	116	5580 MHz
120	5600 MHz	124	5620 MHz	128	5640 MHz
132	5660 MHz	136	5680 MHz	140	5700 MHz

802.11n-HT40/ac-VHT40/ax-HE40

Channel	Frequency	Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz	102	5510 MHz
110	5550 MHz	118	5590 MHz	126	5630 MHz
134	5670 MHz	--	--	--	--

802.11ac-VHT80/ax-HE80

Channel	Frequency	Channel	Frequency	Channel	Frequency
58	5290 MHz	106	5530 MHz	122	5610 MHz

1.7. Antenna Details

Antenna Type	Frequency Band (MHz)	Antenna Gain (dBi)		Directional Gain (dBi)
		Ant 0	Ant 0	
Wi-Fi Antenna (2.4GHz & 5GHz 2*2 MIMO)				
Omni-Directional Antenna	2400 ~ 2483.5	9.0	9.0	12.0
	5150 ~ 5850	9.0	9.0	12.0
Note 1: The antenna gain and directional gain refer to manufacturer's antenna specification.				
Note 2: The EUT supports Cyclic Delay Diversity (CDD) mode for 802.11a/b/g/n/ac/ax.				
Note 3: Software automatically backs power down based on CDD power for beamforming operation.				

2. Test Configuration

2.1. Test Mode

Mode 1: Operating under AP mode

2.2. Test Channel

Test Mode	Test Channel	Test Frequency
802.11ac-VHT80	106	5530 MHz

2.3. Applied Standards

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

- FCC Part 15.407 Section (h)(2)
- KDB 905462 D02v02
- KDB 905462 D04v01
- KDB 484596 D01v02r01

2.4. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20 ~ 75%RH

3. DFS Detection Thresholds and Radar Test Waveforms

3.1. Applicability

The following table from FCC KDB 905462 D02 NII DFS Compliance Procedures New Rules v02 lists the applicable requirements for the DFS testing.

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 3-1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode	
	Master Device or Client With Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

Table 3-2: Applicability of DFS Requirements during normal operation

3.2. DFS Devices Requirements

Per FCC KDB 905462 D02 NII DFS Compliance Procedures New Rules v02 the following are the requirements for Master Devices:

- (a) The Master Device will use DFS in order to detect Radar Waveforms with received signal strength above the DFS Detection Threshold in the 5250 ~ 5350 MHz and 5470 ~ 5725 MHz bands. DFS is not required in the 5150 ~ 5250 MHz or 5725 ~ 5825 MHz bands.
- (b) Before initiating a network on a Channel, the Master Device will perform a Channel Availability Check for a specified time duration (Channel Availability Check Time) to ensure that there is no radar system operating on the Channel, using DFS described under subsection a) above.
- (c) The Master Device initiates a U-NII network by transmitting control signals that will enable other U-NII devices to Associate with the Master Device.
- (d) During normal operation, the Master Device will monitor the Channel (In-Service Monitoring) to ensure that there is no radar system operating on the Channel, using DFS described under a).
- (e) If the Master Device has detected a Radar Waveform during In-Service Monitoring as described under d), the Operating Channel of the U-NII network is no longer an Available Channel. The Master Device will instruct all associated Client Device(s) to stop transmitting on this Channel within the Channel Move Time. The transmissions during the Channel Move Time will be limited to the Channel Closing Transmission Time.
- (f) Once the Master Device has detected a Radar Waveform it will not utilize the Channel for the duration of the Non-Occupancy Period.
- (g) If the Master Device delegates the In-Service Monitoring to a Client Device, then the combination will be tested to the requirements described under d) through f) above.

Channel Move Time and Channel Closing Transmission Time requirements are listed in the following table.

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
<p>Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p>Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.</p> <p>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.</p>	

Table 3-3: DFS Response Requirements

3.3. DFS Detection Threshold Values

The DFS detection thresholds are defined for Master devices and Client Devices with In-service monitoring.

These detection thresholds are listed in the following table.

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP \geq 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
<p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p>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.</p> <p>Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p>	

Table 3-4: Detection Thresholds for Master Devices and Client Devices with Radar Detection

3.4. Parameters of DFS Test Signals

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

Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 3-6	$\text{Roundup} \left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

Table 3-5: Parameters for Short Pulse Radar Waveforms

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms.

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

Table 3-6: Pulse Repetition Intervals Values for Test A

Long Pulse Radar Test Waveform

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

Table 3-7: Parameters for Long Pulse Radar Waveforms

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

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

Table 3-8: Parameters for Frequency Hopping Radar Waveforms

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

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

3.5. Conducted Test Setup

The FCC KDB 905462 D02 NII DFS Compliance Procedures New Rules v02 describes a radiated test setup and a conducted test setup. The conducted test setup was used for this testing. Figure 3-1 shows the typical test setup.

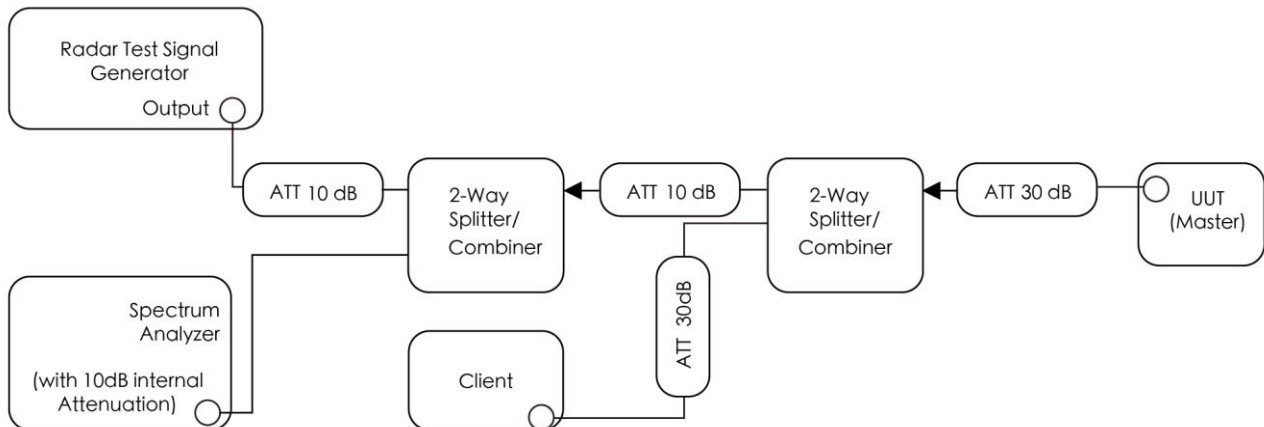


Figure 3-1: Conducted Test Setup where UUT is a Master and Radar Test Waveforms are injected into the Masters

4. Measuring Instrument

Instrument Name	Manufacturer	Model No.	Asset No.	Cali. Interval	Cal. Due Date	Test Site
Signal Analyzer	R&S	FSV40	MRTSUE06218	1 year	2024-09-04	WZ-SR4
Signal Generator	Keysight	N5182B	MRTSUE06451	1 year	2024-06-29	WZ-SR4
Power Divider	MVE	MVE8576	MRTSUE06266	1 year	2024-10-26	WZ-SR4
Power Divider	MVE	MVE8576	MRTSUE06267	1 year	2024-10-26	WZ-SR4
Attenuator	MVE	MVE2213	MRTSUE11087	1 year	2024-06-08	WZ-SR4
Attenuator	MVE	MVE2213	MRTSUE11088	1 year	2024-06-08	WZ-SR4
Thermohygrometer	testo	608-H1	MRTSUE11256	1 year	2024-10-19	WZ-SR4
Shielding Room	HUAMING	WZ-SR4	MRTSUE06441	N/A	N/A	WZ-SR4

Client Information

Instrument	Manufacturer	Type No.	Certification Number
Wi-Fi Module	Intel	AX200NGW	FCC ID: PD9AX200NG

Software	Version	Manufacturer	Function
DFS Tool	V 6.9.2	Agilent	DFS Test Software
Signal Studio	V 2.2.0.0	Keysight	DFS Test Software

5. Test Result

5.1. Summary

Parameter	Verdict	Reference
Statistical Performance Check	Pass	Section 5.3

5.2. Radar Waveform Calibration Measurement

5.2.1. Calibration Setup

The conducted test setup was used for this calibration testing. Figure 3-2 shows the typical test setup.

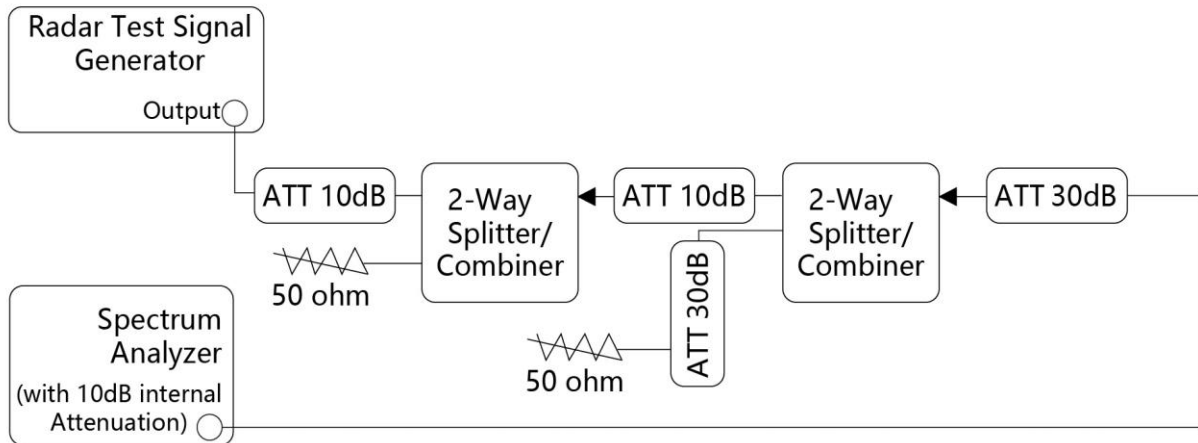


Figure 3-2: Conducted Test Setup

5.2.2. Calibration Procedure

The Interference Radar Detection Threshold Level is $-64 \text{ dBm} + 0 \text{ dBi} + 1 \text{ dB} = -63 \text{ dBm}$ that had been taken into account the output power range and antenna gain for Radar #0 ~ #4 & #6. The Interference Radar Detection Threshold Level is $-64 \text{ dBm} + 5 \text{ dBi}$ (Less than antenna gain 9 dBi) $+ 1 \text{ dB} = -58 \text{ dBm}$ that had been taken into account the output power range and antenna gain for Radar #5. The above equipment setup was used to calibrate the conducted Radar Waveform. A vector signal generator was utilized to establish the test signal level for each radar type. During this process there were replace 50ohm terminal form Master and Client device and no transmissions by either the Master or Client Device. The spectrum analyzer was switched to the zero span (Time Domain) at the frequency of the Radar Waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to at least 3MHz. The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was $-64 \text{ dBm} + 0 \text{ dBi} + 1 \text{ dB} = -63 \text{ dBm}$ for Radar #0 ~ #4 & #6, and $-64 \text{ dBm} + 5 \text{ dBi}$ (Less than antenna gain 9 dBi) $+ 1 \text{ dB} = -58 \text{ dBm}$ for Radar #5. Capture the spectrum analyzer plots on short pulse radar types, long pulse radar type and hopping radar waveform.

5.2.3. Calibration & Channel Loading Result

Refer to Appendix A.1 & A.2.

5.3. Statistical Performance Check Measurement

5.3.1. Test Limit

The minimum percentage of successful detection requirements found in below table when a radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device (In- Service Monitoring).

Radar Type	Minimum Number of Trails	Detection Probability
0	30	$P_d \geq 60\%$
1	30 (15 of test A and 15 of test B)	$P_d \geq 60\%$
2	30	$P_d \geq 60\%$
3	30	$P_d \geq 60\%$
4	30	$P_d \geq 60\%$
Aggregate (Radar Types 1-4)	120	$P_d \geq 80\%$
5	30	$P_d \geq 80\%$
6	30	$P_d \geq 70\%$

Note 1: The percentage of successful detection is calculated by:

$(\text{Total Waveform Detections} / \text{Total Waveform Trails}) * 100 = \text{Probability of Detection Radar Waveform In}$

addition an aggregate minimum percentage of successful detection across all Short Pulse Radar Types 1-4 is required and is calculated as follows: $(P_{d1} + P_{d2} + P_{d3} + P_{d4}) / 4$.

Note 2: For an approved variant device (that could also feature non-DFS-related changes), the DFS spot check test report may include 10 trials for the widest BW mode (80 MHz) and for each radar waveform to demonstrate the required passing percentage for each waveform.

5.3.2. Test Procedure

1. Stream the MPEG test file from the Master Device to the Client Device on the test Channel for the entire period of the test.
2. At time T0 the Radar Waveform generator sends the individual waveform for each of the Radar Types 1-6, at levels equal to the DFS Detection Threshold + 1dB, on the Operating Channel.
3. Observe the transmissions of the EUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Short Pulse Radar Types 0 to ensure detection occurs.
4. Observe the transmissions of the EUT at the end of the Burst on the Operating Channel for duration greater than 22 seconds for Long Pulse Radar Type 5 to ensure detection occurs.
5. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.
6. The Minimum number of trails, minimum percentage of successful detection and the average minimum

percentage of successful detection are found in below table.

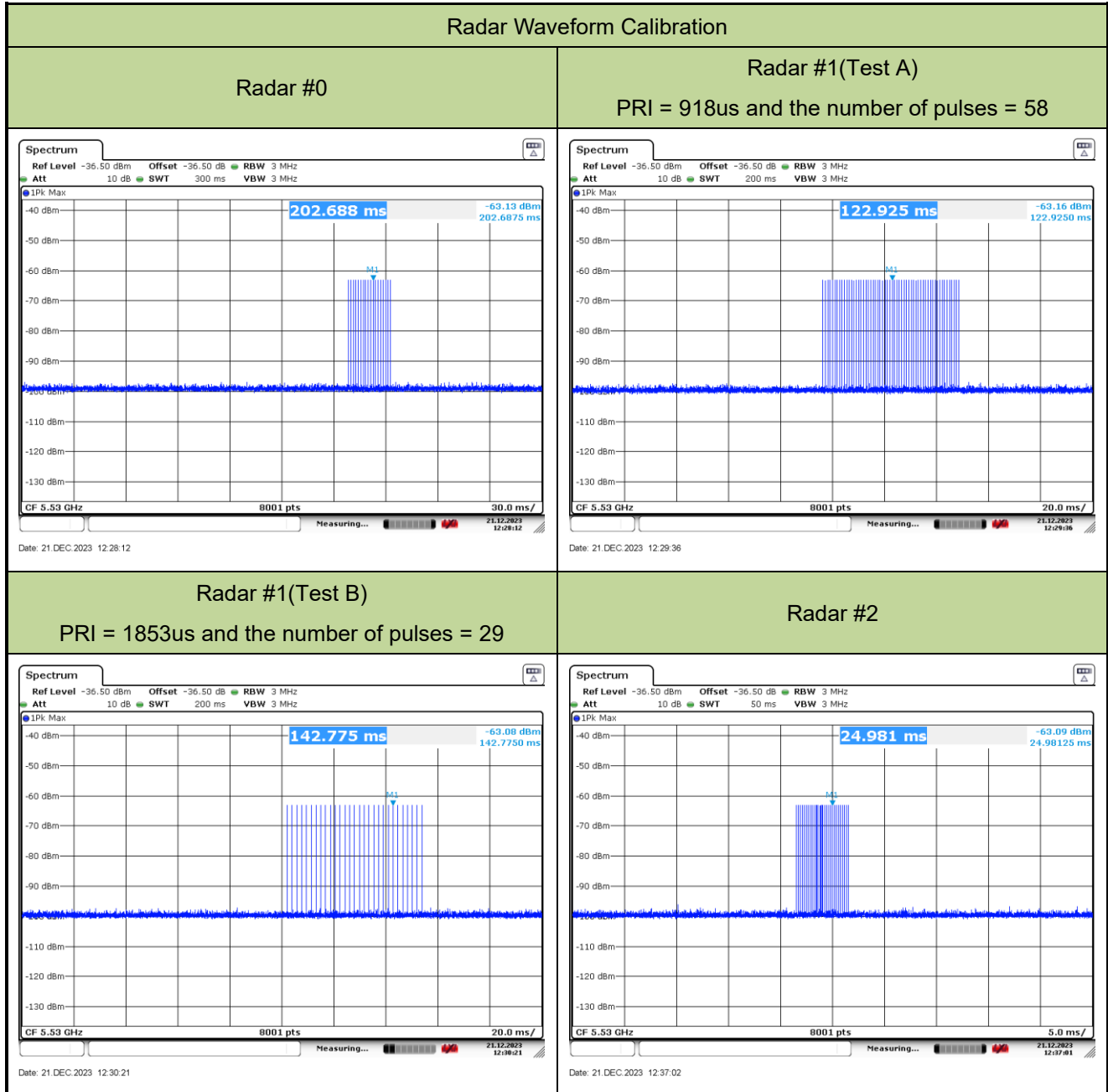
5.3.3. Test Result

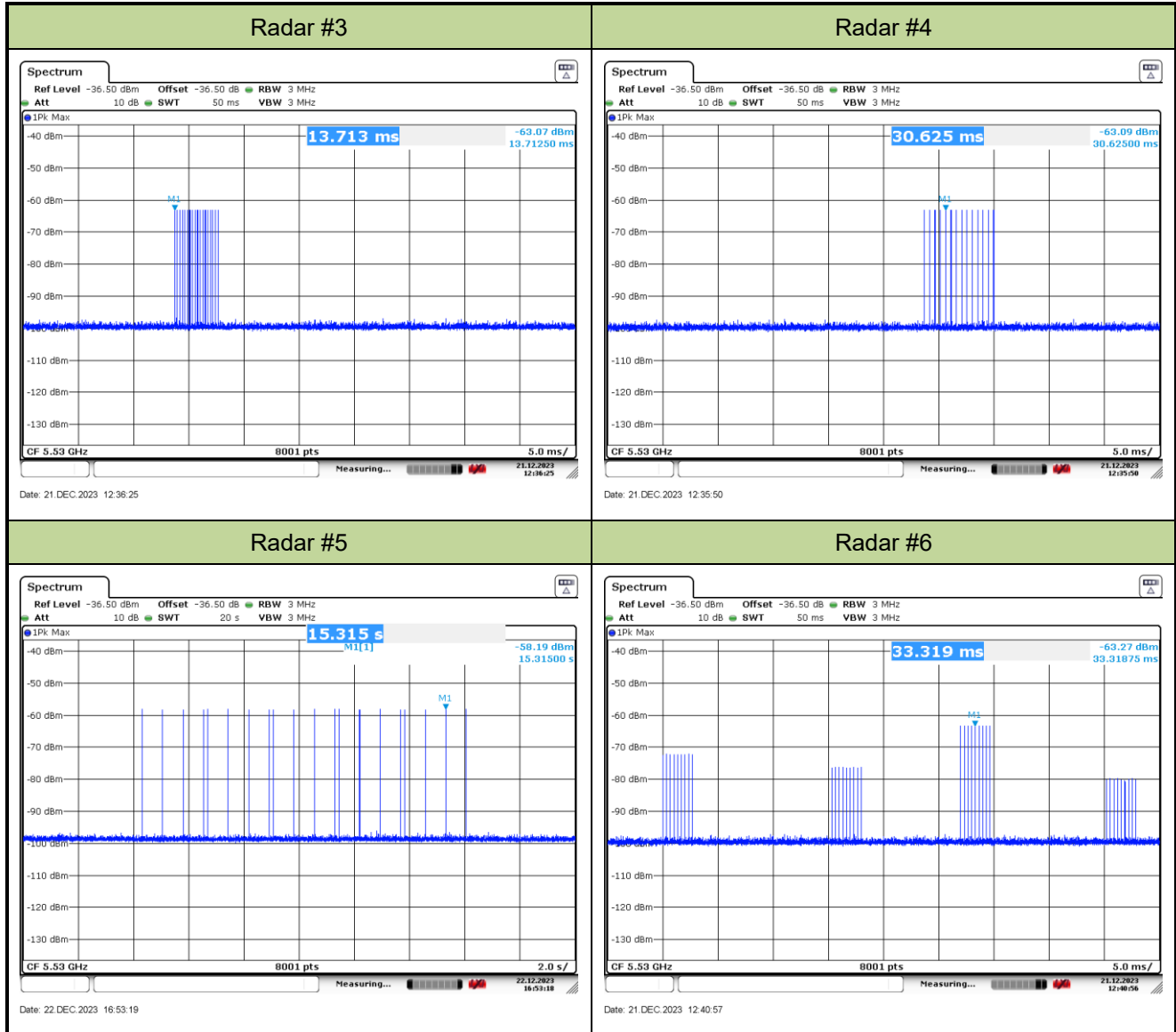
Refer to Appendix A.3.

Appendix A – Test Result

A.1 Calibration Test Result

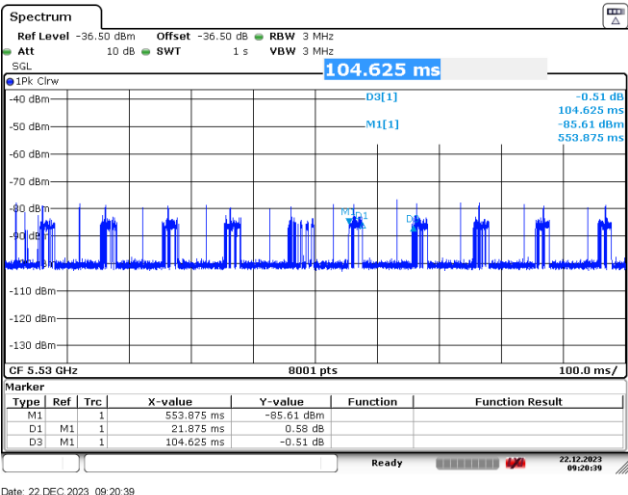
Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2023-12-21 ~ 2023-12-22	Test Item	Radar Waveform Calibration





A.2 Channel Loading Test Result

Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2023-12-22	Test Item	Channel Loading

<div> <div>802.11ac-VHT80 (5530MHz)</div>  </div>				
Test Mode	Test Frequency	Packet ratio	Requirement ratio	Test Result
802.11ac-VHT80	5530 MHz	20.91%	≥ 17%	Pass
<p>Note: System testing was performed with the designated iperf test file. This file is used by IP and Frame based systems for loading the test channel during the In-service compliance testing of the U-NII device.</p> <p>Packet ratio = Time On / (Time On + Off Time).</p>				

A.3 Statistical Performance Check

Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2023-12-22		
Test Item	Radar Statistical Performance Check (802.11ac-VHT80 - 5530MHz)		

Radar Type 1-4 - Radar Statistical Performance								
Trial	Radar Type 1		Radar Type 2		Radar Type 3		Radar Type 4	
	Frequency	1=detect	Frequency	1=detect	Frequency	1=detect	Frequency	1=detect
	(MHz)	0=no detect	(MHz)	0=no detect	(MHz)	0=no detect	(MHz)	0=no detect
0	5490	1	5526	1	5507	0	5525	1
1	5544	1	5532	1	5570	1	5490	0
2	5547	1	5513	1	5499	0	5563	1
3	5530	1	5559	1	5520	1	5530	1
4	5528	1	5505	1	5538	1	5540	1
5	5524	1	5549	1	5495	1	5535	1
6	5497	1	5490	1	5541	1	5518	0
7	5562	1	5530	1	5527	1	5546	1
8	5550	1	5519	1	5490	0	5570	0
9	5570	1	5570	1	5530	1	5560	1
Probability:	100.0%		100.0%		70.0%		70.0%	
Aggregate:	85.0% (>80%)							

Radar Type 1 - Radar Waveform						
	Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
Download	0	Type 1	1.0	858.0	62	53196.0
Download	1	Type 1	1.0	718.0	74	53132.0
Download	2	Type 1	1.0	918.0	58	53244.0
Download	3	Type 1	1.0	758.0	70	53060.0
Download	4	Type 1	1.0	3066.0	18	55188.0
Download	5	Type 1	1.0	598.0	89	53222.0
Download	6	Type 1	1.0	658.0	81	53298.0
Download	7	Type 1	1.0	578.0	92	53176.0
Download	8	Type 1	1.0	878.0	61	53558.0
Download	9	Type 1	1.0	638.0	83	52954.0

Radar Type 2 - Radar Waveform

	Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
Download	0	Type 2	5.0	167.0	29	4843.0
Download	1	Type 2	3.2	171.0	26	4446.0
Download	2	Type 2	4.7	151.0	29	4379.0
Download	3	Type 2	2.7	152.0	25	3800.0
Download	4	Type 2	3.7	212.0	27	5724.0
Download	5	Type 2	3.9	177.0	28	4956.0
Download	6	Type 2	3.7	200.0	27	5400.0
Download	7	Type 2	1.3	162.0	23	3726.0
Download	8	Type 2	2.4	211.0	25	5275.0
Download	9	Type 2	1.9	187.0	24	4488.0

Radar Type 3 - Radar Waveform

	Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
Download	0	Type 3	10.0	372.0	18	6696.0
Download	1	Type 3	8.2	418.0	17	7106.0
Download	2	Type 3	9.7	217.0	18	3906.0
Download	3	Type 3	7.7	310.0	17	5270.0
Download	4	Type 3	8.7	269.0	17	4573.0
Download	5	Type 3	8.9	243.0	18	4374.0
Download	6	Type 3	8.7	416.0	18	7488.0
Download	7	Type 3	6.3	361.0	16	5776.0
Download	8	Type 3	7.4	314.0	17	5338.0
Download	9	Type 3	6.9	430.0	16	6880.0

Radar Type 4 - Radar Waveform

	Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
Download	0	Type 4	20.0	372.0	16	5952.0
Download	1	Type 4	15.9	418.0	14	5852.0
Download	2	Type 4	19.2	217.0	16	3472.0
Download	3	Type 4	14.8	310.0	14	4340.0
Download	4	Type 4	17.0	269.0	15	4035.0
Download	5	Type 4	17.6	243.0	15	3645.0
Download	6	Type 4	17.0	416.0	15	6240.0
Download	7	Type 4	11.7	361.0	12	4332.0
Download	8	Type 4	14.3	314.0	13	4082.0
Download	9	Type 4	13.0	430.0	13	5590.0

Radar Type 5 - Radar Statistical Performance					
Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
0	5530	1	5	5497.2	1
1	5530	1	6	5496.4	1
2	5530	1	7	5562	1
3	5530	1	8	5564.4	1
4	5494.4	1	9	5563.2	1
Detection Percentage (%)			100.0%		

Type 5 Radar Waveform_0						
Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
139004.0	99.6	20	3	1746.0	1282.0	1067.0
283964.0	77.0	20	2	1942.0	1239.0	—
427692.0	95.4	20	3	1971.0	1480.0	1149.0
573575.0	71.0	20	2	1918.0	1142.0	—
121494.0	83.2	20	2	1529.0	1128.0	—
265821.0	86.5	20	3	1695.0	1124.0	1066.0
409546.0	83.5	20	3	1627.0	1987.0	1507.0
557655.0	53.9	20	1	1005.0	—	—
103641.0	68.2	20	2	1284.0	1419.0	—
249022.0	61.1	20	1	1458.0	—	—
393170.0	68.9	20	2	1261.0	1741.0	—
537238.0	93.6	20	3	1117.0	1409.0	1278.0
85513.0	86.5	20	3	1306.0	1590.0	1779.0
230574.0	76.2	20	2	1884.0	1041.0	—
374076.0	99.3	20	3	1668.0	1844.0	1493.0
521370.0	53.8	20	1	1574.0	—	—
68142.0	50.4	20	1	1039.0	—	—
213310.0	65.8	20	1	1316.0	—	—
356934.0	84.0	20	3	1075.0	1766.0	1106.0
503503.0	51.6	20	1	1562.0	—	—

Type 5 Radar Waveform_1

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
66737.0	97.1	13	3	1447.0	1638.0	1414.0
260140.0	78.8	13	2	1585.0	1476.0	-
452535.0	87.9	13	3	1612.0	1656.0	1354.0
647671.0	59.6	13	1	1872.0	-	-
43139.0	63.4	13	1	1410.0	-	-
236806.0	58.5	13	1	1464.0	-	-
429035.0	83.5	13	3	1264.0	1586.0	1288.0
621831.0	89.4	13	3	1274.0	1328.0	1825.0
19230.0	68.4	13	2	1832.0	1693.0	-
212105.0	89.4	13	3	1427.0	1814.0	1392.0
405837.0	68.0	13	2	1513.0	1488.0	-
600292.0	58.3	13	1	1462.0	-	-
793574.0	54.5	13	1	1853.0	-	-
188701.0	72.4	13	2	1633.0	1494.0	-
382705.0	65.3	13	1	1588.0	-	-

Type 5 Radar Waveform_2

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
453309.0	70.4	19	2	1924.0	1685.0	-
607712.0	52.3	19	1	1431.0	-	-
130252.0	76.0	19	2	1110.0	1011.0	-
281625.0	84.2	19	3	1625.0	1580.0	1787.0
433753.0	84.1	19	3	1186.0	1921.0	1652.0
586135.0	87.3	19	3	1489.0	1160.0	1727.0
110987.0	99.9	19	3	1657.0	1511.0	1553.0
263653.0	73.2	19	2	1966.0	1245.0	-
416187.0	75.0	19	2	1073.0	1934.0	-
569773.0	65.6	19	1	1750.0	-	-
92276.0	88.5	19	3	1308.0	1378.0	1928.0
244824.0	71.2	19	2	1376.0	1981.0	-
396065.0	96.8	19	3	1415.0	1768.0	1950.0
550756.0	50.0	19	1	1980.0	-	-
73728.0	76.7	19	2	1223.0	1835.0	-
225589.0	92.1	19	3	1729.0	1277.0	1651.0
379062.0	79.5	19	2	1001.0	1291.0	-
531150.0	72.9	19	2	1899.0	1025.0	-
54796.0	84.7	19	3	1777.0	1578.0	1485.0

Type 5 Radar Waveform_3

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
302763.0	91.8	11	3	1788.0	1911.0	1807.0
526724.0	70.8	11	2	1595.0	1428.0	-
748653.0	89.1	11	3	1194.0	1877.0	1440.0
52867.0	85.8	11	3	1421.0	1752.0	1362.0
276415.0	57.6	11	1	1958.0	-	-
499167.0	74.6	11	2	1500.0	1654.0	-
723447.0	52.9	11	1	1664.0	-	-
25426.0	94.1	11	3	1563.0	1237.0	1723.0
248394.0	85.6	11	3	1212.0	1000.0	1609.0
472166.0	78.8	11	2	1035.0	1181.0	-
693722.0	93.2	11	3	1904.0	1216.0	1455.0
919455.0	60.6	11	1	1601.0	-	-
220978.0	89.0	11	3	1048.0	1157.0	1425.0

Type 5 Radar Waveform_4

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
881492.0	85.8	11	3	1126.0	1691.0	1577.0
127515.0	72.3	11	2	1372.0	1747.0	-
369834.0	64.8	11	1	1650.0	-	-
609728.0	88.6	11	3	1690.0	1972.0	1639.0
853087.0	70.5	11	2	1347.0	1484.0	-
97932.0	62.8	11	1	1105.0	-	-
339375.0	77.3	11	2	1803.0	1709.0	-
580899.0	79.7	11	2	1930.0	1850.0	-
822612.0	80.3	11	2	1876.0	1784.0	-
67975.0	73.8	11	2	1027.0	1764.0	-
309677.0	69.6	11	2	1307.0	1977.0	-
551897.0	73.8	11	2	1220.0	1187.0	-

Type 5 Radar Waveform_5

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
498794.0	90.3	18	3	1423.0	1545.0	1797.0
24122.0	61.6	18	1	1626.0	-	-
176486.0	75.7	18	2	1830.0	1290.0	-
329860.0	54.1	18	1	1298.0	-	-
480697.0	99.2	18	3	1453.0	1475.0	1015.0
5303.0	61.8	18	1	1614.0	-	-
158008.0	54.0	18	1	1937.0	-	-
309317.0	95.0	18	3	1247.0	1851.0	1673.0
464066.0	52.5	18	1	1065.0	-	-
617009.0	57.1	18	1	1040.0	-	-
139222.0	57.0	18	1	1827.0	-	-
292223.0	65.5	18	1	1252.0	-	-
443093.0	86.5	18	3	1150.0	1345.0	1596.0
595915.0	77.3	18	2	1715.0	1705.0	-
120388.0	51.9	18	1	1935.0	-	-
273410.0	63.7	18	1	1213.0	-	-
425801.0	62.9	18	1	1941.0	-	-
577285.0	69.6	18	2	1791.0	1481.0	-
101232.0	97.3	18	3	1226.0	1477.0	1375.0

Type 5 Radar Waveform_6

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
283584.0	87.0	16	3	1170.0	1492.0	1033.0
453088.0	92.2	16	3	1802.0	1819.0	1309.0
626266.0	60.0	16	1	1358.0	-	-
92384.0	70.3	16	2	1887.0	1198.0	-
262142.0	99.8	16	3	1315.0	1859.0	1762.0
434319.0	54.1	16	1	1407.0	-	-
603444.0	82.6	16	2	1724.0	1700.0	-
71579.0	62.2	16	1	1204.0	-	-
241264.0	98.3	16	3	1898.0	1667.0	1190.0
413079.0	53.8	16	1	1739.0	-	-
583921.0	59.3	16	1	1660.0	-	-
50344.0	95.3	16	3	1312.0	1249.0	1203.0
221222.0	56.3	16	1	1879.0	-	-
391595.0	81.1	16	2	1108.0	1436.0	-
561044.0	94.4	16	3	1072.0	1107.0	1782.0
29410.0	76.3	16	2	1548.0	1221.0	-
199733.0	68.0	16	2	1873.0	1615.0	-

Type 5 Radar Waveform_7

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
375436.0	54.9	20	1	1337.0	-	-
520054.0	57.3	20	1	2000.0	-	-
67179.0	59.6	20	1	1192.0	-	-
211181.0	96.4	20	3	1021.0	1927.0	1706.0
355513.0	85.6	20	3	1945.0	1061.0	1744.0
500458.0	98.4	20	3	1398.0	1365.0	1299.0
48987.0	92.4	20	3	1568.0	1649.0	1648.0
194491.0	62.5	20	1	1281.0	-	-
339815.0	58.5	20	1	1076.0	-	-
483571.0	74.9	20	2	1621.0	1310.0	-
31322.0	69.9	20	2	1177.0	1527.0	-
175832.0	90.1	20	3	1050.0	1136.0	1714.0
320713.0	70.3	20	2	1533.0	1794.0	-
465557.0	76.7	20	2	1214.0	1944.0	-
13515.0	60.3	20	1	1053.0	-	-
158293.0	75.5	20	2	1052.0	1831.0	-
303351.0	80.3	20	2	1082.0	1333.0	-
446721.0	93.3	20	3	1324.0	1487.0	1687.0
593018.0	76.2	20	2	1084.0	1531.0	-
140509.0	77.5	20	2	1395.0	1256.0	-

Type 5 Radar Waveform_8

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
381475.0	62.8	14	1	1524.0	—	—
575095.0	53.4	14	1	1572.0	—	—
766649.0	76.9	14	2	1968.0	1776.0	—
163489.0	97.5	14	3	1200.0	1036.0	1605.0
357721.0	63.1	14	1	1300.0	—	—
549128.0	97.6	14	3	1672.0	1008.0	1956.0
742563.0	94.1	14	3	1330.0	1232.0	1502.0
140152.0	50.9	14	1	1289.0	—	—
333184.0	68.4	14	2	1719.0	1199.0	—
526388.0	78.5	14	2	1996.0	1093.0	—
718485.0	89.5	14	3	1217.0	1448.0	1730.0
115759.0	93.6	14	3	1959.0	1138.0	1845.0
308974.0	78.8	14	2	1964.0	1978.0	—
502512.0	80.7	14	2	1461.0	1737.0	—
694431.0	87.4	14	3	1122.0	1957.0	1643.0

Type 5 Radar Waveform_9

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
81346.0	69.6	17	2	1815.0	1134.0	—
252469.0	55.1	17	1	1166.0	—	—
423203.0	65.8	17	1	1469.0	—	—
594162.0	55.8	17	1	1331.0	—	—
60438.0	55.2	17	1	1886.0	—	—
230959.0	78.6	17	2	1112.0	1446.0	—
400757.0	87.4	17	3	1465.0	1068.0	1391.0
569875.0	84.1	17	3	1584.0	1740.0	1989.0
39348.0	74.8	17	2	1063.0	1878.0	—
209974.0	71.7	17	2	1167.0	1303.0	—
381229.0	55.0	17	1	1259.0	—	—
552229.0	65.8	17	1	1123.0	—	—
18374.0	53.8	17	1	1932.0	—	—
189348.0	58.1	17	1	1023.0	—	—
359517.0	75.3	17	2	1083.0	1470.0	—
530023.0	70.4	17	2	1385.0	1266.0	—
698821.0	84.0	17	3	1617.0	1381.0	1417.0

Radar Type 6 - Radar Statistical Performance			
Trail #	1=Detection 0=No Detection	Trail #	1=Detection 0=No Detection
0	1	5	1
1	1	6	1
2	1	7	1
3	1	8	1
4	1	9	1
Detection Percentage (%)		100.0%	

Type 6 Radar Waveform_0					
Frequency List (MHz)	0	1	2	3	4
0	5614	5398	5589	5672	5610
5	5558	5621	5585	5582	5664
10	5721	5545	5530	5722	5364
15	5679	5344	5362	5691	5320
20	5656	5477	5649	5510	5563
25	5694	5535	5553	5522	5560
30	5419	5334	5468	5308	5631
35	5466	5506	5378	5345	5462
40	5542	5405	5447	5271	5493
45	5310	5620	5580	5275	5478
50	5675	5268	5665	5412	5297
55	5433	5379	5407	5451	5307
60	5376	5446	5504	5306	5319
65	5718	5532	5612	5625	5569
70	5265	5454	5452	5463	5295
75	5292	5590	5724	5327	5422
80	5491	5678	5615	5387	5469
85	5642	5444	5285	5358	5485
90	5251	5492	5534	5716	5335
95	5684	5404	5388	5356	5253

Type 6 Radar Waveform_1

Frequency List (MHz)	0	1	2	3	4
0	5297	5637	5525	5358	5355
5	5600	5546	5660	5270	5493
10	5652	5334	5571	5442	5385
15	5292	5471	5465	5261	5609
20	5567	5258	5418	5263	5483
25	5451	5657	5556	5602	5650
30	5376	5549	5717	5603	5274
35	5722	5262	5659	5444	5692
40	5428	5400	5307	5402	5629
45	5673	5368	5576	5370	5529
50	5289	5469	5512	5251	5304
55	5630	5350	5536	5616	5349
60	5683	5369	5547	5507	5365
65	5453	5327	5415	5697	5681
70	5422	5642	5315	5636	5705
75	5579	5435	5272	5367	5678
80	5384	5487	5372	5605	5539
85	5689	5714	5606	5305	5354
90	5429	5416	5352	5264	5388
95	5286	5557	5459	5519	5651

Type 6 Radar Waveform_2

Frequency List (MHz)	0	1	2	3	4
0	5552	5401	5461	5519	5672
5	5642	5568	5260	5433	5700
10	5486	5598	5612	5637	5406
15	5380	5684	5326	5575	5424
20	5359	5255	5456	5717	5495
25	5369	5383	5590	5266	5539
30	5333	5289	5394	5413	5338
35	5533	5337	5358	5531	5608
40	5547	5399	5683	5609	5281
45	5329	5629	5257	5341	5627
50	5580	5475	5292	5313	5680
55	5494	5449	5699	5665	5306
60	5294	5515	5670	5493	5330
65	5314	5510	5285	5597	5693
70	5638	5368	5530	5404	5381
75	5611	5435	5304	5686	5259
80	5545	5528	5434	5284	5372
85	5675	5256	5557	5290	5379
90	5503	5360	5463	5676	5362
95	5466	5319	5469	5659	5536

Type 6 Radar Waveform_3

Frequency List (MHz)	0	1	2	3	4
0	5332	5640	5397	5680	5417
5	5306	5493	5335	5499	5432
10	5387	5653	5260	5427	5468
15	5250	5671	5254	5518	5583
20	5590	5344	5429	5605	5347
25	5572	5487	5624	5308	5428
30	5290	5407	5643	5621	5552
35	5526	5426	5587	5369	5370
40	5691	5276	5690	5396	5612
45	5589	5364	5682	5522	5595
50	5328	5631	5564	5303	5501
55	5634	5684	5268	5670	5697
60	5471	5714	5496	5439	5531
65	5263	5546	5495	5489	5463
70	5379	5283	5340	5483	5555
75	5350	5667	5511	5655	5309
80	5598	5329	5281	5275	5517
85	5628	5351	5719	5530	5323
90	5299	5366	5400	5558	5277
95	5453	5654	5418	5665	5469

Type 6 Radar Waveform_4

Frequency List (MHz)	0	1	2	3	4
0	5587	5404	5333	5366	5259
5	5348	5515	5410	5662	5261
10	5651	5694	5455	5448	5459
15	5377	5677	5299	5710	5494
20	5659	5338	5336	5402	5493
25	5674	5300	5591	5561	5350
30	5414	5722	5622	5320	5344
35	5594	5617	5697	5265	5283
40	5684	5592	5490	5444	5569
45	5447	5445	5260	5409	5471
50	5504	5682	5653	5413	5689
55	5588	5399	5465	5641	5351
60	5636	5276	5419	5385	5354
65	5687	5485	5327	5284	5535
70	5610	5703	5452	5675	5648
75	5288	5668	5565	5287	5489
80	5278	5456	5688	5543	5390
85	5673	5303	5521	5464	5372
90	5434	5343	5580	5500	5332
95	5437	5552	5397	5293	5667

Type 6 Radar Waveform_5

Frequency List (MHz)	0	1	2	3	4
0	5270	5643	5269	5430	5479
5	5390	5440	5485	5350	5468
10	5657	5537	5260	5650	5469
15	5547	5407	5305	5722	5427
20	5502	5279	5425	5375	5284
25	5623	5503	5695	5595	5489
30	5303	5679	5362	5569	5639
35	5258	5708	5493	5418	5672
40	5620	5382	5530	5487	5373
45	5549	5406	5313	5674	5347
50	5680	5267	5614	5402	5542
55	5589	5612	5480	5326	5701
60	5583	5720	5428	5555	5636
65	5521	5651	5704	5693	5474
70	5552	5710	5421	5320	5539
75	5629	5540	5346	5451	5275
80	5414	5653	5298	5355	5724
85	5551	5341	5378	5700	5592
90	5517	5387	5518	5450	5396
95	5364	5417	5534	5515	5311

Type 6 Radar Waveform_6

Frequency List (MHz)	0	1	2	3	4
0	5525	5407	5680	5591	5321
5	5432	5462	5560	5513	5675
10	5588	5326	5398	5370	5490
15	5635	5534	5408	5292	5619
20	5510	5419	5317	5417	5348
25	5647	5475	5706	5421	5629
30	5531	5289	5636	5577	5721
35	5362	5397	5324	5386	5668
40	5683	5459	5562	5468	5460
45	5484	5302	5529	5613	5464
50	5366	5561	5601	5381	5309
55	5356	5437	5493	5496	5304
60	5578	5486	5609	5491	5646
65	5415	5546	5374	5378	5585
70	5557	5369	5446	5283	5301
75	5679	5574	5686	5692	5293
80	5343	5682	5610	5413	5602
85	5518	5615	5272	5556	5712
90	5711	5355	5698	5678	5539
95	5319	5481	5405	5582	5701

Type 6 Radar Waveform_7

Frequency List (MHz)	0	1	2	3	4
0	5305	5646	5616	5277	5541
5	5571	5387	5635	5579	5407
10	5519	5590	5439	5565	5511
15	5723	5661	5337	5336	5421
20	5585	5258	5506	5321	5438
25	5424	5525	5663	5573	5653
30	5593	5695	5495	5657	5415
35	5346	5597	5298	5645	5406
40	5603	5481	5609	5412	5696
45	5522	5419	5351	5477	5557
50	5360	5542	5260	5681	5353
55	5397	5457	5263	5656	5591
60	5722	5469	5320	5534	5496
65	5716	5561	5470	5665	5577
70	5628	5662	5651	5262	5463
75	5350	5472	5426	5383	5682
80	5300	5269	5556	5554	5674
85	5547	5254	5572	5359	5484
90	5487	5367	5713	5648	5497
95	5486	5721	5615	5602	5408

Type 6 Radar Waveform_8

Frequency List (MHz)	0	1	2	3	4
0	5560	5410	5552	5438	5383
5	5613	5409	5710	5267	5711
10	5353	5379	5480	5663	5532
15	5714	5313	5614	5382	5528
20	5429	5654	5674	5498	5294
25	5326	5276	5540	5629	5697
30	5712	5542	5550	5435	5647
35	5477	5578	5506	5453	5499
40	5511	5612	5253	5344	5368
45	5478	5538	5392	5304	5483
50	5375	5713	5258	5411	5631
55	5558	5394	5307	5587	5594
60	5428	5295	5346	5536	5554
65	5363	5305	5608	5364	5273
70	5677	5638	5610	5609	5583
75	5396	5572	5724	5639	5371
80	5644	5621	5459	5259	5642
85	5531	5683	5345	5557	5649
90	5493	5376	5347	5665	5567
95	5619	5705	5606	5519	5325

Type 6 Radar Waveform_9

Frequency List (MHz)	0	1	2	3	4
0	5718	5271	5488	5599	5603
5	5655	5431	5310	5430	5443
10	5284	5643	5521	5383	5553
15	5327	5440	5620	5330	5342
20	5437	5345	5712	5587	5267
25	5592	5268	5258	5256	5279
30	5528	5507	5650	5421	5675
35	5717	5694	5724	5274	5522
40	5451	5433	5282	5608	5475
45	5370	5372	5387	5541	5428
50	5503	5704	5337	5462	5720
55	5381	5626	5582	5261	5302
60	5413	5424	5511	5578	5483
65	5693	5309	5432	5568	5621
70	5403	5545	5711	5259	5680
75	5326	5517	5472	5703	5539
80	5501	5549	5420	5535	5426
85	5641	5341	5362	5335	5697
90	5359	5496	5593	5377	5339
95	5499	5410	5509	5456	5682

Appendix B – Test Setup Photograph

Refer to “2310RSU045-UT” file.

Appendix C – EUT Photograph

Refer to “2310RSU045-UE” file.

The End
