

Report No. : FZ792934-01
Project No: CB10702263

FCC DFS Test Report

Equipment : Home Wi-Fi Solution Kit

Brand Name : AirTies
Model No. : Air 4930

FCC ID : Z3WAIR4930

Standard: 47 CFR FCC Part 15.407

Frequency Range : 5250 MHz - 5350 MHz

5470 MHz - 5725 MHz

Applicant : AirTies Wireless Networks

Mithat Uluunlu Sokak No. 23 Esentepe, Sisli Istanbul,

34394 Turkey

Manufacturer : AirTies Wireless Networks

Mithat Uluunlu Sokak No. 23 Esentepe, Sisli Istanbul,

34394 Turkey

Operate Mode : Master / Mesh

The product sample received on Sep. 29, 2017 and completely tested on Oct. 23, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Cliff Chang

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Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information	5
1.2	Accessories	
1.3	Support Equipment	8
1.4	Testing Applied Standards	g
1.5	Testing Location Information	g
2	TEST CONFIGURATION OF EUT	10
2.1	Test Channel Frequencies Configuration	10
2.2	The Worst Case Measurement Configuration	10
3	DYNAMIC FREQUENCY SELECTION (DFS) TEST RESULT	11
3.1	General DFS Information	11
3.2	Radar Test Waveform Calibration	14
3.3	UNII Detection Bandwidth	23
3.4	Channel Availability Check (CAC)	27
3.5	In-service Monitoring	31
3.6	Statistical Performance Check	36
4	TEST EQUIPMENT AND CALIBRATION DATA	110
5	MEASUREMENT UNCERTAINTY	111
APPI	ENDIX A. TEST PHOTOS	A1 ~ A2
PHO [°]	TOGRAPHS OF EUT V01	

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 2 of 111
Report Version : Rev. 01

Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Summary of Test Result

	Conforma	nce Test Specifications		
Report Clause	Ref. Std. Clause	Description	Limit	Result
3.3	FCC KDB 905462 7.8.1	DFS: UNII Detection Bandwidth Measurement	100% of the 99% BW	Complied
3.4	FCC KDB 905462 7.8.2.1	DFS: Initial Channel Availability Check Time	CAC ≥ 60 sec	Complied
3.4 FCC KDB 905462 7.8.2.2 BGC		DFS: Radar Burst at the Beginning of the Channel Availability Check Time	Detection Threshold: -63 dBm	Complied
3.4 FCC KDB 905462 7.8.2.3		DFS: Radar Burst at the End of the Channel Availability Check Time	Detection Threshold: -63 dBm	Complied
3.5	FCC KDB 905462 7.8.3	DFS: In-Service Monitoring for Channel Move Time (CMT)	CMT ≤ 10sec	Complied
3.5	FCC KDB 905462 7.8.3	DFS: In-Service Monitoring for Channel Closing Transmission Time (CCTT)	CCTT ≤ 60 ms starting at CMT 200ms	Complied
3.5 ECC KDB 905462 7.8.3 Monito		DFS: In-Service Monitoring for Non-Occupancy Period (NOP)	NOP ≥ 30 min	Complied
3.6	FCC KDB 905462 7.8.4	DFS: Statistical Performance Check	Table 5 - 7 (KDB 905462)	Complied
3.1.4	FCC KDB 905462 8.1	User Access Restrictions	DFS controls	Complied

Note: This device supports AP and Mesh mode.

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 3 of 111
Report Version : Rev. 01

Issued Date : Mar. 09, 2018

Revision History

Report No.	Version	Description	Issued Date
FZ792934-01	Rev. 01	Initial issue of report	Mar. 09, 2018
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SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 4 of 111
Report Version : Rev. 01

Issued Date : Mar. 09, 2018



1 General Description

1.1 Information

1.1.1 RF General Information

Specification Items	Desc	cription		
Product Type	WLAN (4TX, 4RX)			
Radio Type	Intentional Transceiver			
Power Type	From power adapter			
Modulation	IEEE 802.11a: OFDM (BPSK / QPSK / 16QAM / 64QAM)			
	IEEE 802.11n/ac: see the below ta	able		
Data Rate (Mbps)	IEEE 802.11a: OFDM (6/9/12/18/24/36/48/54)			
	IEEE 802.11n/ac: see the below table			
Channel Bandwidth	20/40/80 MHz operating channel bandwidth			
Operating Mode				
operating mode	☐ Client with radar detection			
	☐ Client without radar detection			
Communication Mode		Frame Based		
TPC Function	With TPC	☐ Without TPC		
Weather Band (5600~5650MHz)	z)			
Power-on cycle	80MHz: Requires 65.043 seconds to complete its power-on cycle.			
Software / Firmware Version	2.40.1.0_14Sep_WLTEST			
Note: EUT employ a TPC mechanism and TPC have the capability to operate at least 6 dB below highest RF output power.				

Report No.: FZ792934-01

 SPORTON INTERNATIONAL INC.
 Page No.
 : 5 of 111

 TEL: 886-3-327-3456
 Report Version
 : Rev. 01

 FAX: 886-3-327-0973
 Issued Date
 : Mar. 09, 2018



TPC Power Result

Mode	Max Power	Min Power	Max EIRP	Min EIRP
	(dBm)	(dBm)	(dBm)	(dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	=
5.25-5.35GHz	21.62	15.62	23.92	17.92
5.47-5.725GHz	22.13	16.13	24.03	18.03
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-
5.25-5.35GHz	21.54	15.54	29.86	23.86
5.47-5.725GHz	21.96	15.96	29.88	23.88
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-
5.25-5.35GHz	21.60	15.60	29.92	23.92
5.47-5.725GHz	22.04	16.04	29.96	23.96
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-
5.25-5.35GHz	21.59	15.59	29.91	23.91
5.47-5.725GHz	22.03	16.03	29.95	23.95

Report No.: FZ792934-01

Antenna & Band width

Antenna	Four (TX)		
Band width Mode	20 MHz	40 MHz	80 MHz
IEEE 802.11a	V	X	X
IEEE 802.11n	V	V	Х
IEEE 802.11ac	V	V	V

IEEE 11n/ac Spec.

LEE THIVAC OPEC.						
Protocol	Number of Transmit Chains (NTX)	Data Rate / MCS				
802.11n (HT20)	4	MCS0-31				
802.11n (HT40)	4	MCS0-31				
802.11ac (VHT20)	4	MCS 0-9/Nss1-4				
802.11ac (VHT40)	4	MCS 0-9/Nss1-4				
802.11ac (VHT80)	4	MCS 0-9/Nss1-4				

Note 1: IEEE Std. 802.11n modulation consists of HT20 and HT40 (HT: High Throughput). Then EUT support HT20 and HT40.

Note 2: IEEE Std. 802.11ac modulation consists of VHT20, VHT40, VHT80 and VHT160 (VHT: Very High Throughput). Then EUT support VHT20, VHT40 and VHT80.

Note 3: Modulation modes consist of below configuration:

11a: IEEE 802.11a, HT20/HT40: IEEE 802.11n, VHT20/VHT40/VHT80: IEEE 802.11ac.

 SPORTON INTERNATIONAL INC.
 Page No.
 : 6 of 111

 TEL: 886-3-327-3456
 Report Version
 : Rev. 01

 FAX: 886-3-327-0973
 Issued Date
 : Mar. 09, 2018



1.1.2 Antenna Information

				Gain (dBi)				Remark			
Ant.	Brand	Model No.	Туре	Connector		5GHz	5GHz	5GHz	5GHz	2.404-	ECU-
					2.4GHz	Band 1	Band 2	Band 3	Band 4	2.4GHz	эвпх
1	Airties	Airties#1	Printed	N/A	1.7	1.5	2.3	1.9	3	Port 1	Port 1
2	Airties	Airties#1	Printed	N/A	-	1.5	2.3	1.9	3	-	Port 2
3	Airties	Airties#1	Printed	N/A	-	1.5	2.3	1.9	3	-	Port 3
4	Airties	Airties#1	Printed	N/A	1.7	1.5	2.3	1.9	3	Port 2	Port 4

Note: 1. The EUT has four antennas.

2. For WLAN 2.4GHz:

For IEEE 802.11b/g mode (1TX/1RX):

Only Ant. 1(Port 1) can be used as transmitting/receiving antenna.

For IEEE 802.11n mode (2TX/2RX):

Ant. 1(Port 1) and Ant. 4(Port 4)can be used as transmitting/receiving antenna.

Ant. 1(Port 1) and Ant. 4(Port 4) could transmit/receive simultaneously.

3. For WLAN 5GHz:

For IEEE 802.11a/n/ac mode (4TX/4RX):

Ant. 1(Port 1), Ant. 2(Port 2), Ant. 3(Port 3) and Ant. 4(Port 4)can be used as transmitting/receiving antenna.

Ant. 1(Port 1), Ant. 2(Port 2), Ant. 3(Port 3) and Ant. 4(Port 4)could transmit/receive simultaneously.

SPORTON INTERNATIONAL INC. Page No.
TEL: 886-3-327-3456 Report Versi
FAX: 886-3-327-0973 Issued Date

FCC ID: Z3WAIR4930

Page No. : 7 of 111

Report Version : Rev. 01

Issued Date : Mar. 09, 2018



DFS Band Carrier Frequencies

There are three bandwidth systems.

For 20MHz bandwidth systems, use Channel 52, 56, 60, 64, 100, 104, 108, 112, 116, 132, 136, 140, 144.

For 40MHz bandwidth systems, use Channel 54, 62, 102, 110, 134, 142.

For 80MHz bandwidth systems, use Channel 58, 106, 138

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
	52	5260 MHz	60	5300 MHz
5250~5350 MHz	54	5270 MHz	62	5310 MHz
Band 2	56	5280 MHz	64	5320 MHz
	58	5290 MHz	-	-
	100	5500 MHz	132	5660 MHz
	102	5510 MHz	134	5670 MHz
	104	5520 MHz	136	5680 MHz
5470~5725 MHz	106	5530 MHz	138	5690 MHz
Band 3	108	5540 MHz	140	5700 MHz
	110	5550 MHz	142	5710 MHz
	112	5560 MHz	144	5720 MHz
	116	5580 MHz	-	-

Table for Class II Change 1.1.4

This product is an extension of original one reported under Sporton project number: 792934

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Adding 5GHz Band 2 and Band 3 (5250~5350MHz, 5470~5725MHz)	All test items

1.2 **Accessories**

Accessories							
No.	lo. Equipment Brand Model Name Name		Rating				
1	Adapter	MOSO	MSA-C1000CS12.0-12A-US	INPUT: 100-240V, 50/60Hz 0.5A max OUTPUT: 12V, 1A			

Support Equipment 1.3

	Support Equipment					
No. Equipment Brand Name Model Name FCC ID						
1	NB*2	DELL	E4300	DoC		
2	WLAN Dongle	LINKSYS	AE6000	Q87-AE6000		

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930

: 8 of 111 Page No. Report Version : Rev. 01

Report No.: FZ792934-01

: Mar. 09, 2018 Issued Date

1.4 Testing Applied Standards

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

Report No.: FZ792934-01

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

1.5 Testing Location Information

	Testing Location									
	HWA YA	ADD) :	No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.						
	TEL : 886-3-327-3456									
\boxtimes	JHUBEI	ADD) :	: No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C						
	TEL: 886-3-656-9065 FAX: 886-3-656-9085									
Test Condition			T	est Site No. Test Engineer Te		Test Environment	Test Date			
DFS Site			DF01-CB	Jeff Wu		26.7°C / 54%	Oct. 23, 2017			

Test site Designation No. TW0006 with FCC

Test site registered number IC 4086D with Industry Canada.

 SPORTON INTERNATIONAL INC.
 Page No.
 : 9 of 111

 TEL: 886-3-327-3456
 Report Version
 : Rev. 01

 FAX: 886-3-327-0973
 Issued Date
 : Mar. 09, 2018



2 Test Configuration of EUT

2.1 Test Channel Frequencies Configuration

Test Channel Frequencies Configuration					
IEEE Std.	Test Channel Freq. (MHz)				
802.11ac (VHT20)	5500 MHz				
802.11ac (VHT40)	5510 MHz				
802.11ac (VHT80)	5530 MHz				

Report No.: FZ792934-01

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests						
Tests Item	Dynamic Frequency Selection (DFS)					
Test Condition	Radiated measurement The EUT shall be configured to operate at the highest transmitter output power setting. If more than one antenna assembly is intended for this power setting, the gain of the antenna assembly with the lowest gain shall be used. The DFS radar test signals have been aligned to the direction corresponding to the EUT's maximum antenna gain.					
Modulation Mode	802.11ac (VHT20), 802.11ac (VHT40), 802.11ac (VHT80)					

Note: Master Mode was tested for all test items and Mesh mode, only Statistical Performance Check (Section 7.8.4) on one of the radar types is required to perform.

 SPORTON INTERNATIONAL INC.
 Page No.
 : 10 of 111

 TEL: 886-3-327-3456
 Report Version
 : Rev. 01

 FAX: 886-3-327-0973
 Issued Date
 : Mar. 09, 2018



3 Dynamic Frequency Selection (DFS) Test Result

3.1 General DFS Information

3.1.1 DFS Parameters

Table D.1: DFS requirement values							
Parameter	Value						
Non-occupancy period	Minimum 30 minutes						
Channel Availability Check Time	60 seconds						
Channel Move Time	10 seconds (Note 1).						
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second periods. (Notes 1 and 2).						
U-NII Detection Bandwidth	Minimum 100% of the 99% power bandwidth (Note 3).						

Report No.: FZ792934-01

- Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
- Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate Channel changes (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
- Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

Table D.2: Interference threshold values					
Maximum Transmit Power	Value (see note)				
EIRP ≥ 200 mW	-64 dBm				
EIRP < 200 mW and PSD < 10dBm/MHz	-62 dBm				
EIRP < 200 mW and PSD >= 10dBm/MHz	-64 dBm				

- Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
- Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911D01.

 SPORTON INTERNATIONAL INC.
 Page No.
 : 11 of 111

 TEL: 886-3-327-3456
 Report Version
 : Rev. 01

 FAX: 886-3-327-0973
 Issued Date
 : Mar. 09, 2018

3.1.2 Applicability of DFS Requirements Prior to Use of a Channel

	DFS Operational mode					
Requirement	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			

3.1.3 Applicability of DFS Requirements during Normal Operation

	DFS Operational mode					
Requirement	Master	Client without radar detection	Client with radar detection			
DFS Detection Threshold	Yes	Not required	Yes			
Channel Closing Transmission Time	Yes	Yes	Yes			
Channel Move Time	Yes	Yes	Yes			
U-NII Detection Bandwidth	Yes	Not required	Yes			

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

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

SPORTON INTERNATIONAL INC.
TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930

 Page No.
 : 12 of 111

 Report Version
 : Rev. 01

 Issued Date
 : Mar. 09, 2018



3.1.4 User Access Restrictions

User Access Restrictions ☑ DFS controls (hardware or software) related to radar detection are NOT accessible to the user. Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user.

Report No.: FZ792934-01

3.1.5 Channel Loading/Data Streaming

	The data file (MPEG-4) has been transmitting in a streaming mode.
\boxtimes	Software to ping the client is permitted to simulate data transfer with random ping intervals.
\boxtimes	Minimum channel loading of approximately 17%.
	Unicast protocol has been used.

 SPORTON INTERNATIONAL INC.
 Page No.
 : 13 of 111

 TEL: 886-3-327-3456
 Report Version
 : Rev. 01

 FAX: 886-3-327-0973
 Issued Date
 : Mar. 09, 2018



3.2 Radar Test Waveform Calibration

3.2.1 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Trials
0	1	1428	18	See Note 1	See Note 1
1A	1	15 unique PRI in KDB 905462 D02 Table 5a	[(1) (19×10 ⁶)]	60%	15
1B	1	15 unique PRI within 518-3066, Excluding 1A PRI	$Roundup \left\{ \left(\frac{1}{360} \right) \times \left(\frac{19 \times 10^6}{PRI} \right) \right\}$	60%	15
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4 11-20		200-500 12-16		60%	30
Aggrega	ate (Radar Type	80%	120		

Report No.: FZ792934-01

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

A minimum of 30 unique waveforms are required for each of the short pulse radar types 1 through 4. If more than 30 waveforms are used for short pulse radar types 1 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. The aggregate is the average of the percentage of successful detections of short pulse radar types 1-4.

3.2.2 Long Pulse Radar Test Waveform

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

Each waveform is defined as follows:

- The transmission period for the Long Pulse Radar test signal is 12 seconds.
- There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst Count.
- Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.
- The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.
- Each pulse has a linear FM chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a transmission period will have the same chirp width. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.
- If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the time

 SPORTON INTERNATIONAL INC.
 Page No.
 : 14 of 111

 TEL: 886-3-327-3456
 Report Version
 : Rev. 01

 FAX: 886-3-327-0973
 Issued Date
 : Mar. 09, 2018



between the first and second pulses is chosen independently of the time between the second and third pulses.

Report No.: FZ792934-01

The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst Count. Each interval is of length (12,000,000 / Burst Count) microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and [(12,000,000 / Burst Count) – (Total Burst Length) + (One Random PRI Interval)] microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen independently.

3.2.3 Frequency Hopping Radar Test Waveform

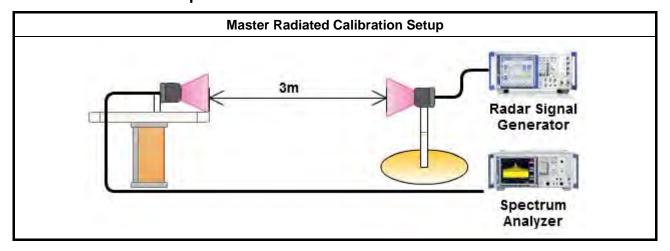
Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ms)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	0.333	300	70%	30

The FCC Type 6 waveform uses a static waveform with 100 bursts in the instruments ARB. In addition, the RF list mode is operated with a list containing 100 frequencies from a randomly generated list and it had be ensured that at least one of the random frequencies falls into the UNII Detection Bandwidth of the DUT. Each burst from the waveform file initiates a trigger pulse at the beginning that switches the RF list from one item to the next one.

3.2.4 DFS Threshold Level

			DFS Threshold Level
DFS Threshold level:	-63	dBm	at the antenna connector
			in front of the antenna
The Interference Rada taken into account the			eshold Level is is $-64 dBm + 0 [dBi] + 1 dB = -63 dBm$. That had been age and antenna gain.

3.2.5 Calibration Setup



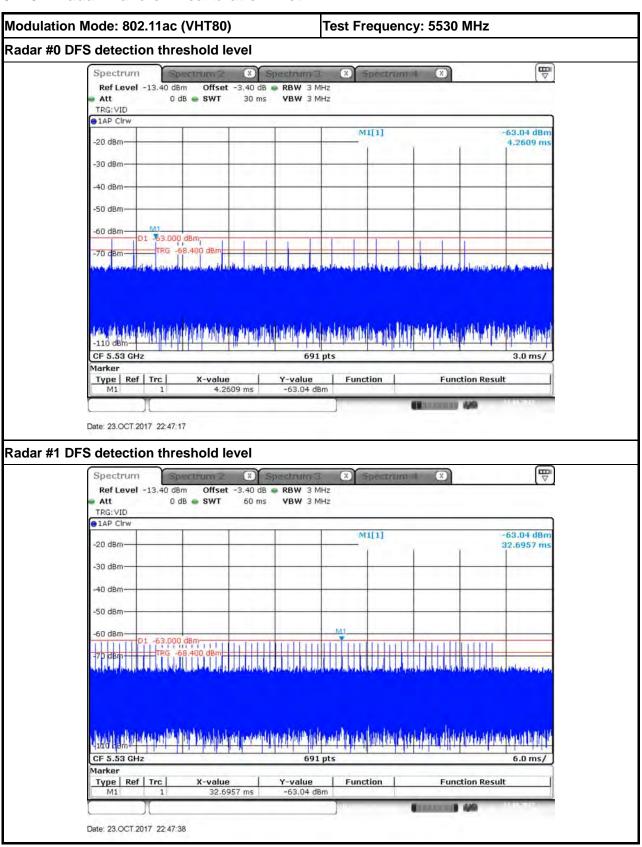
 SPORTON INTERNATIONAL INC.
 Page No.
 : 15 of 111

 TEL: 886-3-327-3456
 Report Version
 : Rev. 01

 FAX: 886-3-327-0973
 Issued Date
 : Mar. 09, 2018



3.2.6 Radar Waveform calibration Plot



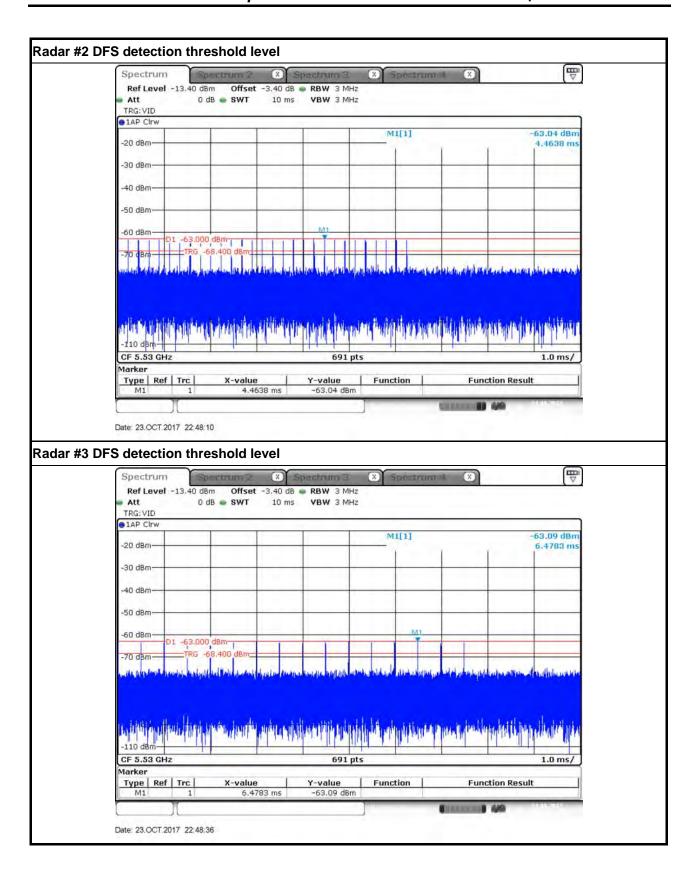
SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 16 of 111

Report Version : Rev. 01

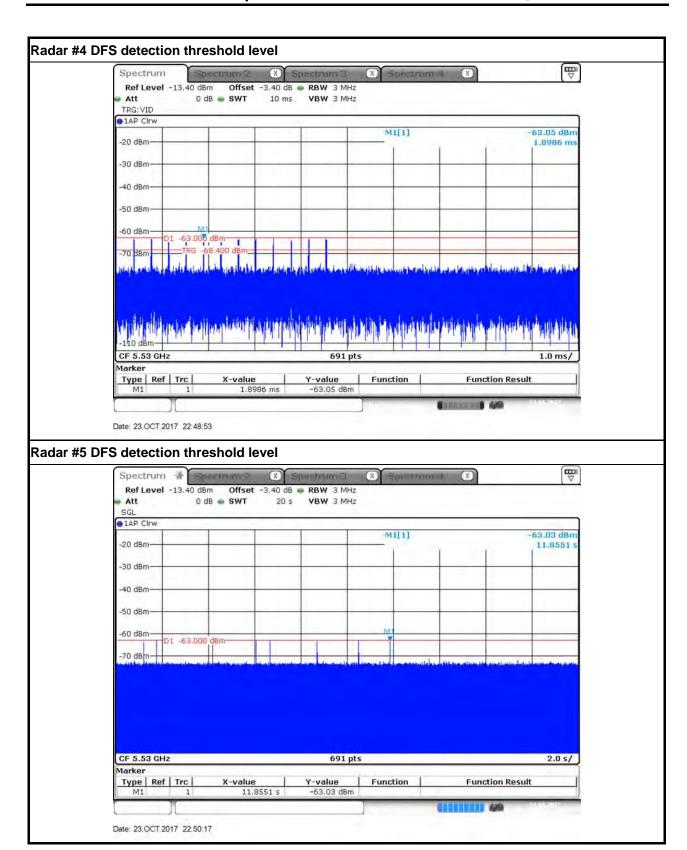
Issued Date : Mar. 09, 2018





TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930

: 17 of 111 Page No. Report Version : Rev. 01 Issued Date : Mar. 09, 2018



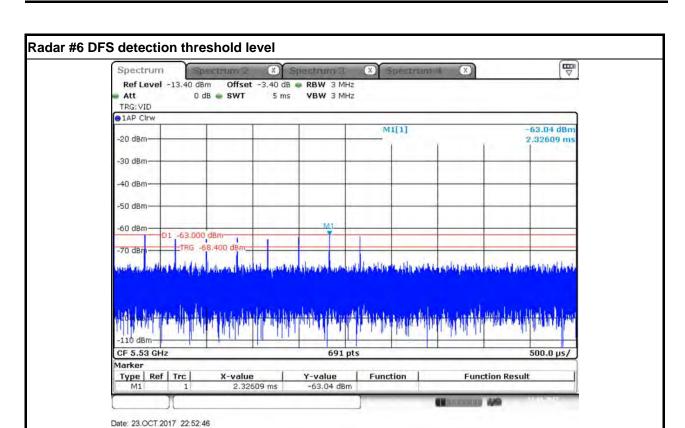
SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930

 Page No.
 : 18 of 111

 Report Version
 : Rev. 01

 Issued Date
 : Mar. 09, 2018



TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930

 Page No.
 : 19 of 111

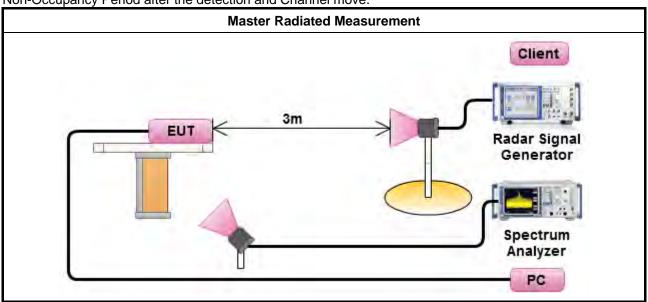
 Report Version
 : Rev. 01

 Issued Date
 : Mar. 09, 2018



3.2.7 Test Setup

A spectrum analyzer is used as a monitor to verify that the EUT has vacated the Channel within the (Channel Closing Transmission Time and Channel Move Time, and does not transmit on a Channel during the Non-Occupancy Period after the detection and Channel move.

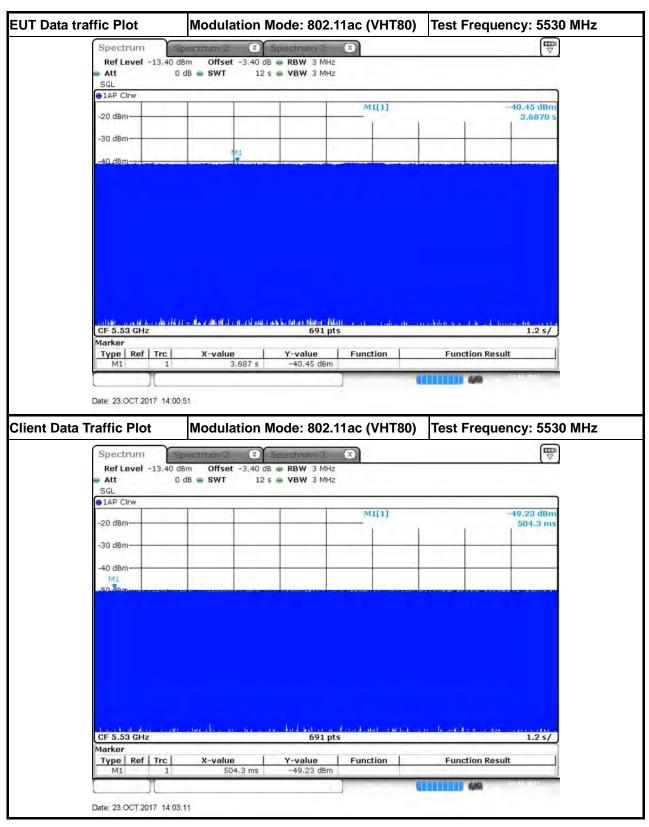


SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 20 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



3.2.8 Data traffic Plot



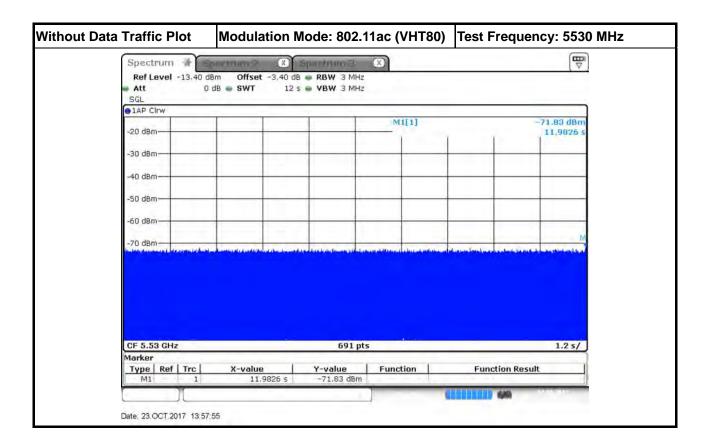
SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 21 of 111

Report Version : Rev. 01

Issued Date : Mar. 09, 2018





TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930

 Page No.
 : 22 of 111

 Report Version
 : Rev. 01

 Issued Date
 : Mar. 09, 2018

3.3 UNII Detection Bandwidth

3.3.1 UNII Detection Bandwidth Limit

Channel Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	UNII Detection Bandwidth Min. Limit (MHz)
20	17.887	18
40	37.047	38
80	75.542	76

Report No.: FZ792934-01

UNII Detection Bandwidth is minimum 100% of the 99% power bandwidth. A single radar Burst is generated for a minimum of 10 trials, and the response of the UUT is noted. The UUT must detect the Radar Waveform 90% or more of the time.

3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method

During the U-NII Detection Bandwidth detection test, radar type 0 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic. The EUT is set up as a standalone device (no associated Client and no traffic). The radar frequency is increased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The highest frequency at which detection is greater than or equal to 90% is denoted as F_H. The radar frequency is decreased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The lowest frequency at which detection is greater than or equal to 90% is denoted as F_L. UNII Detection Bandwidth = F_H - F_L.

 SPORTON INTERNATIONAL INC.
 Page No.
 : 23 of 111

 TEL: 886-3-327-3456
 Report Version
 : Rev. 01

 FAX: 886-3-327-0973
 Issued Date
 : Mar. 09, 2018

3.3.4 Test Result of UNII Detection Bandwidth

	EU	T Fre	quer	ncy=5	500	MHz					
Channel Bandwidth (MHz)	20		_								
		DF	S De	tecti	on Tr	ials (1=De	tecti	on, 0	= No	Detection)
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate
			3	4	,	0	,	0	9	10	(%)
5490	0	0	0	0	0	0	0	0	0	0	0%
5491 (FL)	1	1	0	1	1	1	1	1	1	1	90%
5492	1	1	1	1	1	1	1	1	1	1	100%
5493	1	1	1	1	1	1	1	1	1	1	100%
5494	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5506	1	1	1	1	1	1	1	1	1	1	100%
5507	1	1	1	1	1	1	1	1	1	1	100%
5508	1	1	1	1	1	1	1	1	1	1	100%
5509 (FH)	1	1	1	0	1	1	1	1	1	1	90%
5510	0	0	0	0	0	0	0	0	0	0	0%
Radar Type 0-Detection Bandwidth (I	Radar Type 0-Detection Bandwidth (MHz) = (FH-FL) = (5509MHz-5491MHz)=										18
UNII Detection Bandwidth Min. Limit (MHz) =									18		
Test Result								Complied			

Report No.: FZ792934-01

 SPORTON INTERNATIONAL INC.
 Page No.
 : 24 of 111

 TEL: 886-3-327-3456
 Report Version
 : Rev. 01

 FAX: 886-3-327-0973
 Issued Date
 : Mar. 09, 2018



	EII	T Ess			E40	MLI-					
Channal Danduidth (MIII-)		T Fre	quer	icy=:	510	VIIIZ					
Channel Bandwidth (MHz)	DFS Detection Trials (1=Detection, 0= No Detection										Data atia m)
		DF	2 De	tecti	on ir	iais (1=06	tecti	on, u	= NO	•
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5490	0	0	0	0	0	0	0	0	0	0	0%
5491 (FL)	1	1	1	1	1	1	1	1	0	1	90%
5492	1	1	1	1	1	1	1	1	1	1	100%
5493	1	1	1	1	1	1	1	1	1	1	100%
5494	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5510	1	1	1	1	1	1	1	1	1	1	100%
5515	1	1	1	1	1	1	1	1	1	1	100%
5520	1	1	1	1	1	1	1	1	1	1	100%
5525	1	1	1	1	1	1	1	1	1	1	100%
5526	1	1	1	1	1	1	1	1	1	1	100%
5527	1	1	1	1	1	1	1	1	1	1	100%
5528	1	1	1	1	1	1	1	1	1	1	100%
5529 (FH)	1	1	1	1	1	1	0	1	1	1	90%
5530	0	0	0	0	0	0	0	0	0	0	0%
Radar Type 0-Detection Bandwidth (I	MHz)	= (FF	H-FL)	= (55	29MI	Hz-54	91MI	Hz)=			38
	UNII Detection Bandwidth Min. Limit (MHz) =									38	
Test Result									Complied		

SPORTON INTERNATIONAL INC.
TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 25 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



<u> </u>		T F				NALI-					
	1	T Fre	quer	icy=	530	VIHZ					
Channel Bandwidth (MHz)	80										
		DF	S De	tection	on Tr	ials (1=De	tecti	on, 0	<u> </u>	Detection)
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5491	0	0	0	0	0	0	0	0	0	0	0%
5492 (FL)	0	1	1	1	1	1	1	1	1	1	90%
5495	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5510	1	1	1	1	1	1	1	1	1	1	100%
5515	1	1	1	1	1	1	1	1	1	1	100%
5520	1	1	1	1	1	1	1	1	1	1	100%
5525	1	1	1	1	1	1	1	1	1	1	100%
5530	1	1	1	1	1	1	1	1	1	1	100%
5535	1	1	1	1	1	1	1	1	1	1	100%
5540	1	1	1	1	1	1	1	1	1	1	100%
5545	1	1	1	1	1	1	1	1	1	1	100%
5550	1	1	1	1	1	1	1	1	1	1	100%
5555	1	1	1	1	1	1	1	1	1	1	100%
5560	1	1	1	1	1	1	1	1	1	1	100%
5567	1	1	1	1	1	1	1	1	1	1	100%
5568 (FH)	0	1	1	1	1	1	1	1	1	1	90%
5569	0	0	0	0	0	0	0	0	0	0	0%
Radar Type 0-Detection Bandwidth (I	Radar Type 0-Detection Bandwidth (MHz) = (FH-FL) = (5568MHz-5492MHz)=								76		
UNII Detection Bandwidth Min. Limit	(MHz) =									76
est Result								Complied			

SPORTON INTERNATIONAL INC.
TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 26 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018

3.4 Channel Availability Check (CAC)

3.4.1 Channel Availability Check Limit

Channel Availability Check Limit

Report No.: FZ792934-01

The EUT shall perform a Channel Availability Check to ensure that there is no radar operating on the channel. After power-up sequence, receive at least 1 minute (60 sec) on the intended operating frequency.

3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method

- For Initial Channel Availability Check Time. The EUT does not emit beacon, control, or data signals on the test Channel until the power-up sequence has been completed and the UNII device checks for Radar Waveforms for one minute on the test Channel. This test does not use any Radar Waveforms.
- For Radar Burst at the Beginning of the Channel Availability Check Time. To verify successful radar detection on the selected Channel during a period equal to the Beginning of the Channel Availability Check Time.
- For Radar Burst at the End of the Channel Availability Check Time. To verify successful radar detection on the selected Channel during a period equal to the End of the Channel Availability Check Time.

 SPORTON INTERNATIONAL INC.
 Page No.
 : 27 of 111

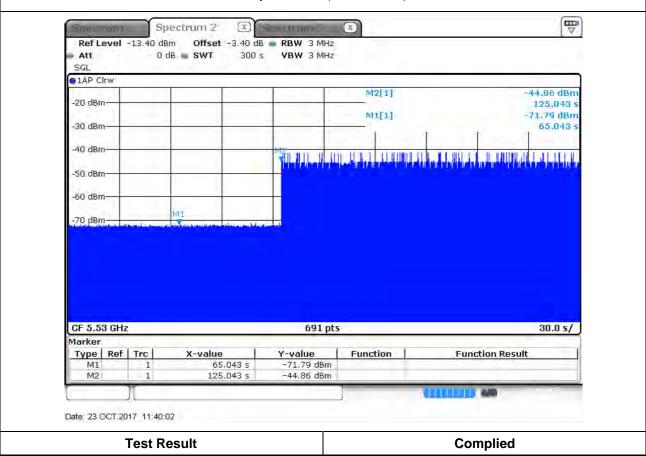
 TEL: 886-3-327-3456
 Report Version
 : Rev. 01

 FAX: 886-3-327-0973
 Issued Date
 : Mar. 09, 2018

3.4.4 Test Result of Initial Channel Availability Check Time

Modulation Mode	Freq.	Radar Test Signal
802.11ac (VHT80)	5530 MHz	N/A

The EUT does not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle (65.043 sec). The initial CAC time of the EUT is indicated by marker 1 (65.043 sec). Initial beacons/data transmissions are indicated by marker 2 (125.043 sec).



SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930

 Page No.
 : 28 of 111

 Report Version
 : Rev. 01

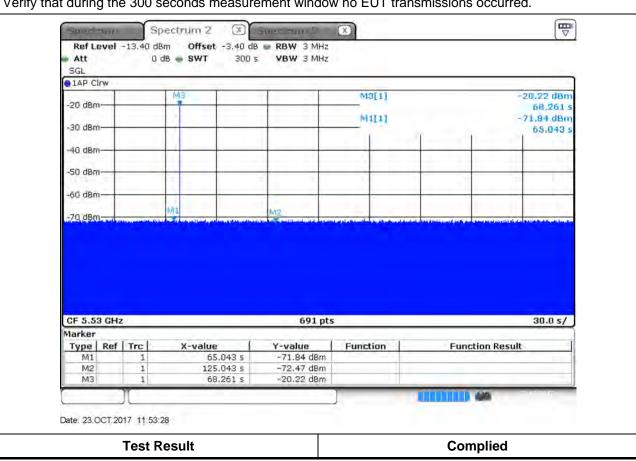
 Issued Date
 : Mar. 09, 2018



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

Modulation Mode	Freq. (MHz)	Radar Type Signal
802.11ac (VHT80)	5530 MHz	0

Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions will continue for 231.739 seconds after the radar Burst has been generated. Verify that during the 300 seconds measurement window no EUT transmissions occurred.



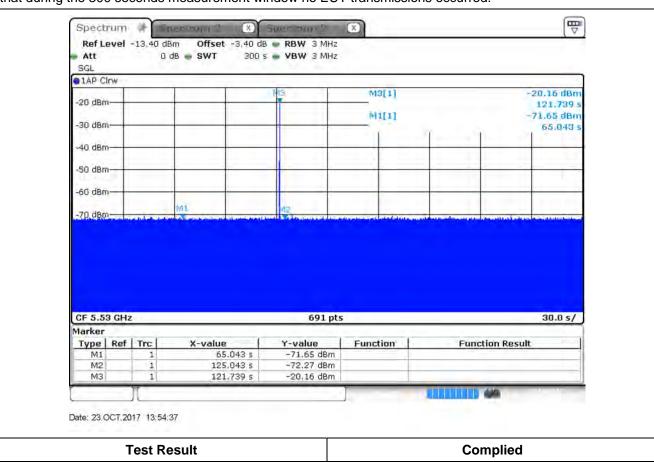
SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 29 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018

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

Modulation Mode	Freq. (MHz)	Radar Type Signal
802.11ac (VHT80)	5530 MHz	0

Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions will continue for 178.261 seconds after the radar Burst has been generated. Verify that during the 300 seconds measurement window no EUT transmissions occurred.



SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 30 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018

3.5 In-service Monitoring

3.5.1 In-service Monitoring Limit

	In-service Monitoring Limit
Channel Move Time	10 sec
Channel Closing Transmission Time	200 ms + an aggregate of 60 ms over remaining 10 sec periods.
Non-occupancy period	Minimum 30 minutes

Report No.: FZ792934-01

3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method

- ✓ Verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. Client Device will associate with the EUT. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). Compare the Channel Move Time and Channel Closing Transmission Time limits.
- ✓ Verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. One 12 sec plot needs to be reported for the Short Pulse Radar Types 0. And zoom-in a 60 ms plot verified channel closing time for the aggregate transmission time starting from 200ms after the end of the radar signal to the completion of the channel move.
- ☑ Verified during In-Service Monitoring; Non-Occupancy Period. Client Device will associate with the EUT. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Non-Occupancy Period). Compare the Non-Occupancy Period limits.

 SPORTON INTERNATIONAL INC.
 Page No.
 : 31 of 111

 TEL: 886-3-327-3456
 Report Version
 : Rev. 01

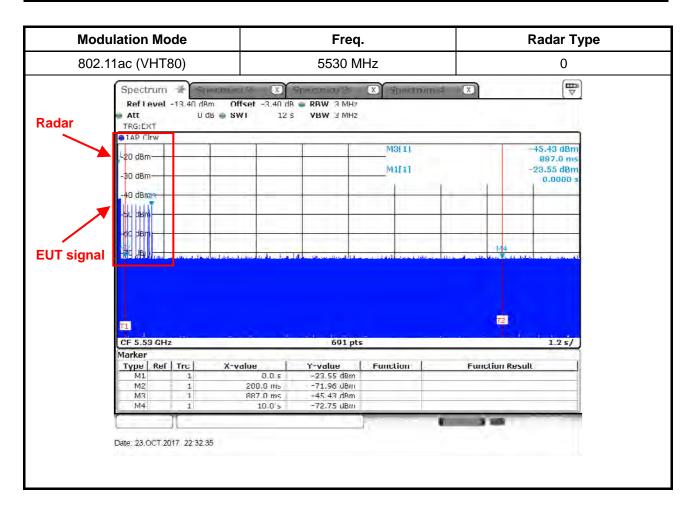
 FAX: 886-3-327-0973
 Issued Date
 : Mar. 09, 2018



Test Result of Channel Move Time

Modulation Mode: 802.11ac (VHT80)

Parameter	Test Result	Limit		
Farameter	Туре 0	Limit		
Test Channel (MHz)	5530 MHz	-		
Channel Move Time (sec.)	0.887	< 10s		



SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930

: 32 of 111 Page No. Report Version : Rev. 01 Issued Date : Mar. 09, 2018



3.5.5 Test Result of Channel Closing Transmission Time

Modulation Mode: 802.11ac (VHT80)

Parameter	Test Result	Limit	
Farameter	Туре 0	Lilling	
Test Channel (MHz)	5530 MHz	-	
Channel Closing Transmission Time (ms) (Note)	23.188	< 60ms	

Report No.: FZ792934-01

Note: 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 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.

 SPORTON INTERNATIONAL INC.
 Page No.
 : 33 of 111

 TEL: 886-3-327-3456
 Report Version
 : Rev. 01

 FAX: 886-3-327-0973
 Issued Date
 : Mar. 09, 2018



Mod	Modulation Mode			Freq.			Radar Type			
802.	802.11ac (VHT80)			5530 MHz			0			
			Time is comp mittent contro) ms start	ing at th	e beginni	ng of the Char	nel Mov	
Radar	Spectrum Ref Leve Att TRG:EXT 1AP Clrw	-13.40 dBm	Offset -3,40 dB		X Spect	rum 4	X	(v		
	1-20 dBm				M1[1]		-1			
	-50 dBm-	V V		VIS V						
EUT signal	₹₽ dβm	10.15.11.23.1	A SOLIT AND A SOLI	part attending up the bearing		e e e e e e e e e e e e e e e e e e e	dente de la constitució	and a law to the same of the s		
	CF 5.53 G	ា មួយមន្ត្រី	analas (l.) Širote (l.) Jai šant vat (c	a applica en paralisti 691 pts	e çonê darên fatakilî	taurodiau) cata	atas eniikisustiika .	200.0 ms/		
	Type Re	of Ten	X-value	Y-value	Function	6	Function Res	rule I		
	M1	1	0.0 s	-24.52 d8m	runction		r unction kes	uit		
	M2	1	200.0 ms	-45.19 dBm						
	M3	1	817.39 ms	-45.61 dBm						
](CHARLE	100 69	difficult		
	Date: 23.OCT	2017 22:25:11								

Dwell is the dwell time per spectrum analyzer sampling bin.

S is the sweep time

B is the number of spectrum analyzer sampling bins

C is the intermittent control signals of Channel Closing Transmission Time

N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission

Dwell (2.899 ms)= S (2000 ms) / B (690)

C (23.188 ms) = N (8) X Dwell (2.899 ms)

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 34 of 111
Report Version : Rev. 01

Issued Date : Mar. 09, 2018

3.5.6 Test Result of Non-Occupancy Period

Modulation Mode: 802.11ac (VHT80)

Parameter	Test Result	Limit	
Farameter	Туре 0	Lillin	
Test Channel (MHz)	5530 MHz	-	
Non-Occupancy Period (min.)	≥30	≥ 30 min	

	Modulation Mode		Freq. 5530 MHz		
802.11ac (VHT80)					
Non-Occ	cupancy Period				
	ne 30 minutes observation as detected on that channe				
	Ref Level -13,40 dBm Of Att 0 dB SV SGL O1AP Cirw M1 -20 dBm	fset -3,40 dB • RBW 3 MHz VT 2000 s • VBW 3 MHz	M1[1]	-4	19.90 dBm 98.55 s
	-30 dBm			1 1	30.00 3
	40 dam				
	3m-				

691 pts

Function

Y-value -19,90 dBm

Date: 23.OCT.2017 13:39:01

Type | Ref | Trc |

X-value

98.55 s

CF 5.53 GHz

Marker

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 35 of 111
Report Version : Rev. 01

Issued Date : Mar. 09, 2018

200.0 s/

Function Result

3.6 **Statistical Performance Check**

3.6.1 **Statistical Performance Check Limit**

Radar Type	Minimum Percentage of Successful Detection (Pd)	Minimum Trials
1	60%	30
2	60%	30
3	60%	30
4	60%	30
Aggregate (Radar Types 1-4)	80%	120
5	80%	30
6	70%	30

Report No.: FZ792934-01

The percentage of successful detection is calculated by:

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

Pd1 + Pd2 + Pd3 + Pd4

4

3.6.2 **Measuring Instruments**

Refer a test equipment and calibration data table in this test report.

3.6.3 **Test Procedures**

Test Method

For Statistical Performance Check test. Demonstrating a minimum channel loading of approximately 17% or greater of the test. Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Short Pulse Radar Types 1-4 and 6 to ensure detection occurs. Then Observe the transmissions of the UUT 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. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.

SPORTON INTERNATIONAL INC. Page No. : 36 of 111 TEL: 886-3-327-3456 Report Version : Rev. 01 FAX: 886-3-327-0973 Issued Date : Mar. 09, 2018

 $[\]frac{TotalWaveformDetections}{-} \times 100 = Probability of Detection Radar Waveform$



3.6.4 Test Result of Statistical Performance Check

For Master Mode:

Modulation Mode: 802.11ac (VHT20)

Type 1 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulse Per Second)	PRI (us)	1=Detection 0=No Detection
1	5508	1	1930.5	518	1
2	5499	23	326.2	3066	1
3	5494	19	1139.0	878	1
4	5504	12	1355.0	738	1
5	5504	4	1730.1	578	0
6	5495	8	1519.8	658	1
7	5505	15	1253.1	798	1
8	5505	6	1618.1	618	1
9	5504	14	1285.3	778	1
10	5501	3	1792.1	558	0
11	5495	13	1319.3	758	1
12	5501	9	1474.9	678	1
13	5499	7	1567.4	638	1
14	5494	17	1193.3	838	1
15	5500	10	1432.7	698	1
16	5499	-	1692.0	591	1
17	5502	-	328.1	3048	0
18	5497	-	373.4	2678	0
19	5499	-	574.4	1741	1
20	5495	-	1216.5	822	1
21	5492	-	801.3	1248	1
22	5504	-	488.5	2047	1
23	5498	-	956.0	1046	1
24	5499	-	517.6	1932	1
25	5507	-	1422.5	703	1
26	5507	-	542.0	1845	1
27	5506	-	741.3	1349	1
28	5495	-	881.8	1134	1
29	5499	-	427.4	2340	1
30	5493	-	628.9	1590	1
		Detection Percentage (86.667
Limit					60%
Test Res	ult				Complied

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 37 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Type 2 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5507	2.6	221	23	1
2	5498	4.6	198	27	1
3	5508	1.1	184	29	1
4	5506	4.8	203	24	1
5	5508	2.4	162	25	1
6	5497	3.4	204	28	0
7	5508	2.3	170	27	1
8	5495	3.5	184	23	1
9	5502	4.9	150	27	1
10	5497	4.6	211	29	1
11	5495	2.9	158	23	1
12	5509	2.6	226	27	1
13	5497	1.6	204	26	0
14	5500	3.9	181	25	1
15	5503	4.6	202	24	1
16	5501	4.1	194	27	1
17	5495	2.3	193	28	1
18	5497	3.9	173	29	1
19	5506	4.3	188	23	0
20	5506	1.5	215	26	1
21	5495	4.9	227	27	1
22	5505	1.1	199	23	0
23	5506	4.5	155	29	1
24	5504	4.0	190	27	1
25	5496	2.4	151	23	1
26	5494	2.5	180	28	1
27	5494	2.5	228	23	1
28	5499	2.5	203	25	1
29	5497	1.5	188	25	1
30	5508	1.9	217	24	1
	De	etection Percentage (%	<u>(</u>		86.667
Limit	60%				
Test Res	ult				Complied

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 38 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Type 3 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection ; 0=No Detection
1	5501	8.0	205	16	1
2	5496	6.7	382	18	1
3	5497	8.6	418	16	1
4	5497	9.4	351	17	1
5	5503	7.4	383	18	1
6	5506	9.8	232	16	1
7	5502	9.1	377	17	1
8	5503	9.6	457	16	1
9	5501	8.0	471	18	0
10	5495	9.0	304	18	1
11	5497	8.0	316	17	1
12	5508	9.8	325	16	1
13	5495	8.0	409	17	1
14	5505	9.9	200	17	1
15	5503	8.8	458	16	0
16	5508	8.0	232	18	1
17	5493	8.3	250	16	1
18	5508	8.7	270	16	1
19	5501	7.7	350	17	0
20	5502	7.1	230	16	1
21	5491	7.3	416	18	1
22	5501	7.6	498	18	1
23	5495	7.3	286	17	1
24	5497	7.3	287	16	1
25	5492	7.5	462	17	1
26	5500	6.2	300	17	1
27	5498	6.4	323	18	1
28	5495	7.1	420	16	1
29	5507	7.2	395	18	1
30	5506	8.4	377	16	1
	De	etection Percentage (%	%)		90.000
Limit		60%			
Test Res	Complied				

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 39 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Type 4 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5499	18.0	242	15	1
2	5497	19.9	279	12	1
3	5503	12.9	487	14	1
4	5497	15.0	452	13	1
5	5497	16.3	230	12	1
6	5506	19.8	238	13	0
7	5509	18.2	420	16	1
8	5494	16.3	452	15	1
9	5496	14.2	495	12	1
10	5500	17.8	228	16	1
11	5495	19.1	211	16	0
12	5497	18.4	283	15	1
13	5504	11.8	411	12	0
14	5494	14.2	284	13	1
15	5498	13.9	202	12	0
16	5500	17.8	340	14	1
17	5492	15.6	290	16	1
18	5493	14.6	250	16	1
19	5495	14.4	484	15	1
20	5503	18.9	387	13	0
21	5492	11.1	348	15	1
22	5509	13.8	291	16	1
23	5509	14.3	295	12	1
24	5508	12.5	300	12	1
25	5507	12.5	322	14	0
26	5492	12.5	383	13	1
27	5499	15.7	322	16	0
28	5491	19.8	469	13	1
29	5499	18.6	406	15	1
30	5495	15.9	238	14	1
	De	etection Percentage (%	<u>~</u>		76.667
Limit					60%
Test Res	ult				Complied

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 40 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Total Type 1~4 Radar Statistical Performance

Total Type T 4 Radar Stationed Total Indiana	
Radar Type #	Detection Percentage (%)
1	86.667
2	86.667
3	90.000
4	76.667
Aggregate (Radar Types 1-4)	85.000
Limit	80%
Test Result	Complied

Report No.: FZ792934-01

 SPORTON INTERNATIONAL INC.
 Page No.
 : 41 of 111

 TEL: 886-3-327-3456
 Report Version
 : Rev. 01

 FAX: 886-3-327-0973
 Issued Date
 : Mar. 09, 2018

FCC ID: Z3WAIR4930



Type 5 Radar Statistical Performance

Center Freq. (MHz)	Low Edge (MHz)	High Edge (MHz)		
5500	5491	5509	VSG Freq. (MHz)	Detection
Trial	Chirp	Offset		
1	5	0	5500	0
2	20	0	5500	1
3	7	0	5500	1
4	8	0	5500	1
5	9	0	5500	1
6	10	0	5500	1
7	11	0	5500	1
8	12	0	5500	1
9	13	0	5500	1
10	14	0	5500	1
11	15	6	5497	1
12	16	6.4	5497	1
13	17	6.8	5498	0
14	20	8	5499	1
15	19	7.6	5499	1
16	18	7.2	5498	1
17	17	6.8	5498	1
18	16	6.4	5497	1
19	15	6	5497	1
20	14	5.6	5497	1
21	13	5.2	5504	1
22	12	4.8	5504	1
23	11	4.4	5505	1
24	10	4	5505	1
25	9	3.6	5505	1
26	8	3.2	5506	1
27	18	7.2	5502	0
28	19	7.6	5501	1
29	20	8	5501	0
30	5	2	5507	1
	To	otal		26
	Detection Per	centage (%)		87%
imit				80%
est Result				Complied

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 42 of 111 Report Version : Rev. 01

Issued Date

: Mar. 09, 2018



Trial Number			1					
Number of Bur	sts in Trial		8					
Chirp Center F	requency			55	00			
Burst No. of Pulses Pulse Width (us)			Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)		
1	1	62.1	5	-	-	1091		
2	2	56	5	1729	-	133		
3	2	91.3	5	1230	-	1057		
4	3	50.7	5	1762	1616	1442		
5	2	92.6	5	1723	-	544		
6	2	87.3	5	1302	-	1089		
7	2	59.5	5 1291 - 137					
8	2	52.2	5	1653	-	1237		
Detection Chec	k (1=Detection; 0	=No Detection)				0		

Trial Number			2					
Number of Bu	rsts in Trial		9					
Chirp Center	Frequency			55	00			
Burst No. of Pulses Pulse Width (us)			Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)		
1	3	90	20	1007	1326	30		
2	2	73.7	20	1785	-	979		
3	1	78.1	20	-	-	683		
4	2	92.4	20	1281	-	950		
5	1	61.2	20	-	-	612		
6	3	67.2	20	1525	1870	17		
7	1	78.5	20	-	-	429		
8	2	60.3	20 1931 - 936					
9	3	92.9	20 1403 1476 548					
Detection Ched	ck (1=Detection; C	=No Detection)				1		

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 43 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number	al Number 3					
Number of Bur	nber of Bursts in Trial			1	0	
Chirp Center F	Chirp Center Frequency			55	00	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)		
1	3	63.4	7	1574	1607	801
2	1	98	7	-	-	966
3	1	58.7	7	-	-	185
4	1	88	7	-	-	1012
5	3	79.5	7	1562	1370	943
6	3	57.1	7	1900	1188	686
7	2	64.4	7	1090	-	599
8	1	78.7	7	-	-	1089
9	1	69.3	7	-	-	188
10	3	55.3	7	1375	1691	933
Detection Chec	k (1=Detection; 0	=No Detection)				1

Trial Number		4				
Number of Bu	er of Bursts in Trial			1		
Chirp Center F	requency			55	00	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)		
1	2	74.3	8	1642	-	24
2	1	83.1	8	-	-	985
3	2	59.5	8	1680	-	988
4	2	59.8	8	1786	-	800
5	2	77.6	8	1617	-	339
6	2	79.9	8	1553	-	1040
7	1	56	8	-	-	544
8	3	71.4	8	1406	1927	452
9	1	97.4	8	-	-	204
10	2	98.3	8	1037	-	926
11	1	63.6	8	-	-	1052
Detection Chec	ck (1=Detection; C	=No Detection)	•	•	•	1

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 44 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			5					
Number of Bur	Number of Bursts in Trial			12				
Chirp Center F	requency			55	00			
Burst	Burst No of Pulses Pulse Width Chirp Width Pulse 1-to-2 Pulse 2-to-3					Starting Location Within		
1	1	50	9	_	_	Interval (ms) 557		
2	2	62.5	9	1731	-	567		
3	2	55.4	9	1070	-	460		
4	1	65.7	9	-	-	4		
5	2	58	9	1512	-	64		
6	2	60.9	9	1230	-	650		
7	3	89.6	9	1598	1738	235		
8	3	84.4	9	1271	1617	873		
9	3	72.3	9	1498	1321	901		
10	1	58.9	9	-	-	663		
11	2	74.8	9	1584	-	919		
12	1	71.8	9	-	-	375		
Detection Chec	k (1=Detection; 0	=No Detection)				1		

Trial Number	Trial Number			6			
Number of Bu	rsts in Trial		13				
Chirp Center F	requency			55	00		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)				
1	2	88.1	10	1257	-	846	
2	1	58.7	10	-	-	725	
3	2	97.1	10	1037	-	30	
4	3	83.1	10	1029	1106	490	
5	1	62.1	10	-	-	262	
6	2	71.4	10	1058	-	283	
7	2	86.3	10	1867	-	49	
8	3	77.3	10	1418	1876	634	
9	1	78.9	10	-	-	304	
10	3	79.2	10	1055	1572	564	
11	3	52	10	1582	1836	852	
12	3	56.5	10	1195	1542	525	
13	3	100	10	1638	1729	750	
Detection Chec	ck (1=Detection; 0	=No Detection)				1	

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 45 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			7					
Number of Bur	sts in Trial			14				
Chirp Center F	Chirp Center Frequency			55	00			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Log Spacing (us) Spacing (us) Inter					
1	2	92.7	11	1208	-	231		
2	2	81.3	11	1144	-	804		
3	2	60.4	11	1555	-	34		
4	2	62.1	11	1320	-	427		
5	1	50	11	-	-	577		
6	3	65.9	11	1020	1365	3		
7	2	73.8	11	1308	-	51		
8	2	74.3	11	1143	-	360		
9	1	62.9	11	-	-	394		
10	2	74.8	11	1404	-	317		
11	2	69.7	11	1309	-	532		
12	2	69.8	11	1688	-	339		
13	2	77.4	11	1857	-	381		
14	1	55.1	11	-	-	426		
Detection Chec	k (1=Detection; 0	=No Detection)				1		

Trial Number	Trial Number			8				
Number of Bu	rsts in Trial		15					
Chirp Center Frequency				55	00			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)		
1	1	91.7	12	-	-	776		
2	2	90	12	1196	-	187		
3	3	92.3	12	1486	1853	448		
4	2	66.8	12	1545	-	702		
5	1	64	12	-	-	403		
6	3	95.4	12	1123	1473	230		
7	3	66.8	12	1867	1401	604		
8	3	67.7	12	1472	1397	38		
9	1	68.2	12	-	-	735		
10	2	82.2	12	1297	-	610		
11	1	92.1	12	-	-	618		
12	2	57	12	1764	-	705		
13	2	58.5	12	1310	-	22		
14	3	85.5	12	1630	1447	641		
15	2	82.2	12	1371	-	109		
Detection Ched	ck (1=Detection; C	=No Detection)				1		

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 46 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			9				
Number of Bu	rsts in Trial		16				
Chirp Center F	Chirp Center Frequency			5500			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)		Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	74.4	13	1707	1	442	
2	2	63.6	13	1725	-	280	
3	2	71.3	13	1704	-	459	
4	3	77.6	13	1063	1405	197	
5	3	65.2	13	1731	1294	101	
6	3	55.1	13	1109	1549	17	
7	2	96.8	13	1034	-	131	
8	3	80.8	13	1533	1051	365	
9	1	60.4	13	-	ı	222	
10	2	61.8	13	1312	ı	371	
11	2	71.3	13	1657	ı	33	
12	2	98.1	13	1024	ı	291	
13	1	57.9	13	-	-	188	
14	1	91.8	13	-	1	163	
15	2	56.7	13	1259	-	426	
16	2	89.7	13	1690	1	606	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

Trial Number				1	0		
Number of Bu	rsts in Trial		17				
Chirp Center F	Chirp Center Frequency			55	00		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	2	74.4	14	1107	-	462	
2	1	87.6	14	-	-	653	
3	2	61.7	14	1741	-	457	
4	2	57.5	14	1566	-	388	
5	2	66.1	14	1855	-	63	
6	3	70.1	14	1044	1012	136	
7	1	66.4	14	-	-	343	
8	1	59.2	14	-	-	349	
9	2	88.3	14	1240	-	362	
10	1	64.7	14	-	-	221	
11	2	73	14	1703	-	144	
12	2	81.7	14	1450	-	671	
13	3	70.1	14	1741	1278	320	
14	1	63.6	14	-	-	196	
15	1	58.7	14	-	-	413	
16	2	65.9	14	1478	-	170	
17	1	72.7	14	-	-	564	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 47 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			11				
Number of Bu	ırsts in Trial		18				
Chirp Center	Frequency			54	97		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	72.1	15	1193	-	130	
2	3	76.3	15	1484	1390	114	
3	1	86.1	15	-	-	14	
4	1	73.2	15	-	-	604	
5	1	81.2	15	-	-	548	
6	2	99.5	15	1398	-	173	
7	1	93.9	15	-	-	262	
8	2	75.9	15	1921	-	38	
9	3	79.2	15	1100	1429	84	
10	3	77	15	1166	1799	610	
11	1	91.8	15	-	-	339	
12	3	56.8	15	1330	1556	580	
13	2	83.1	15	1556	-	295	
14	2	63	15	1552	-	156	
15	1	65.7	15	-	-	439	
16	1	64.5	15	-	-	188	
17	1	88.5	15	-	-	419	
18	1	60.6	15	-	-	205	
Detection Che	ck (1=Detection; 0	=No Detection)				1	

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 48 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number				12				
Number of B	ursts in Trial		19					
Chirp Center	Chirp Center Frequency			54	97			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)		
1	2	90.5	16	1299	_	381		
2	2	88.4	16	1418	-	327		
3	2	53.7	16	1055	-	536		
4	1	80.5	16	-	-	285		
5	1	50.4	16	-	-	398		
6	2	61.2	16	1749	-	439		
7	2	78.8	16	1065	-	129		
8	3	75	16	1748	1820	325		
9	2	96.7	16	1254	-	440		
10	3	76.3	16	1848	1106	397		
11	1	73.3	16	-	-	232		
12	2	92.4	16	1317	-	91		
13	2	92.4	16	1854	-	256		
14	3	64.4	16	1240	1634	582		
15	2	67.3	16	1473	-	117		
16	2	84.1	16	1795	-	202		
17	1	80.9	16	-	-	135		
18	1	74.6	16	-	-	396		
19	2	97.6	16	1805	-	615		
Detection Che	ck (1=Detection; C	=No Detection)	·	·	·	1		

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 49 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			13 20				
Number of Bu	rsts in Trial						
Chirp Center I	Frequency			5498			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	2	66.1	17	1417	-	388	
2	2	86.7	17	1693	-	348	
3	2	70.5	17	1263	-	215	
4	2	78	17	1446	-	28	
5	2	66	17	1185	-	585	
6	2	80.6	17	1855	-	65	
7	1	95.5	17	-	-	92	
8	1	98.8	17	-	-	68	
9	3	64.3	17	1641	1108	517	
10	1	75.1	17	-	-	121	
11	2	72.6	17	1499	-	448	
12	1	60.3	17	-	-	567	
13	2	54.9	17	1056	-	245	
14	2	98.8	17	1023	-	584	
15	2	60.9	17	1243	-	579	
16	2	62.7	17	1226	-	464	
17	1	80.1	17	-	-	89	
18	2	70.9	17	1711	-	153	
19	1	90.7	17	-	-	282	
20	1	98.9	17	-	-	71	
Detection Chec	ck (1=Detection; 0	=No Detection)				0	

Trial Number	Trial Number			14			
Number of Bui	Number of Bursts in Trial			3	3		
Chirp Center F	Chirp Center Frequency			54	99		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	67.5	20	1542	-	947	
2	3	83.6	20	1272	1696	124	
3	2	93.2	20	1877	-	701	
4	1	55.6	20	-	-	1123	
5	3	84.2	20	1733	1619	756	
6	3	69.1	20	1612	1071	1	
7	2	66.9	20	1905	-	7	
8	3	86.8	20 1697 1621 1082				
Detection Chec	k (1=Detection; C	=No Detection)	·		·	1	

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 50 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			15					
Number of Bursts in Trial				ę)			
Chirp Center Frequency				54	99			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)		Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)		
1	2	62.2	19	1571	-	949		
2	2	85	19	1669	-	189		
3	2	64.5	19	1505	-	176		
4	2	50.4	19	1325	-	538		
5	2	66.1	19	1483	-	908		
6	2	71.2	19	1110	-	1017		
7	3	53.7	19	1445	1677	492		
8	3	62.5	19	1596	1341	349		
9	3	62	19 1929 1221 1105					
Detection Chec	ck (1=Detection; C	=No Detection)				1		

Trial Number			16				
Number of Bur	Number of Bursts in Trial			10			
Chirp Center Frequency				54	98		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)		Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	80.5	18	1910	-	284	
2	2	64.2	18	1661	-	751	
3	2	90.1	18	1041	-	491	
4	2	69.8	18	1495	-	107	
5	1	73.1	18	-	-	490	
6	3	77.2	18	1418	1145	1155	
7	3	52.6	18	1732	1787	772	
8	2	71.4	18	1562	-	121	
9	2	89.8	18	1491	-	89	
10	2	76.4	18	1355	-	615	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 51 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			17				
Number of Bu	ırsts in Trial			11			
Chirp Center Frequency				54	98		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Spacing (us) Pulse 2-to-3 Location Spacing (us) Within Interval (r				
1	2	51.2	17	1236	-	740	
2	1	71.7	17	-	-	941	
3	2	74.7	17	1164	-	370	
4	2	50.9	17	1919	-	371	
5	2	65.2	17	1206	-	1033	
6	2	98	17	1182	-	346	
7	2	58.7	17	1612	-	639	
8	1	63.8	17	-	-	1056	
9	3	86.3	17	1545	1065	205	
10	1	94.4	17	-	-	753	
11	3	88.5	17	1699	1319	58	
Detection Che	ck (1=Detection; C	=No Detection)				1	

Trial Number			18				
Number of Bu	rsts in Trial			12			
Chirp Center F	Chirp Center Frequency			54	97		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Locat (MHz) Spacing (us) Spacing (us) With				
						Interval (ms)	
1	2	88.7	16	1405	-	448	
2	3	90.2	16	1544	1235	621	
3	1	96.5	16	-	-	512	
4	2	80.5	16	1090	-	321	
5	2	63.7	16	1268	-	798	
6	1	53.4	16	-	-	809	
7	2	52.3	16	1043	-	301	
8	3	54.7	16	1701	1104	796	
9	3	75.6	16	1923	1729	669	
10	2	59.2	16	1244	-	369	
11	1	56.3	16	-	-	51	
12	2	87.8	16	1608	-	733	
Detection Chec	ck (1=Detection; C	=No Detection)	•	•	•	1	

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 52 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			19			
Number of Bur	sts in Trial		13			
Chirp Center Frequency				54	97	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Loca (MHz) Spacing (us) Spacing (us) Interva			
1	2	68.2	15	1104	-	229
2	2	58.4	15	1627	-	488
3	3	74.7	15	1861	1015	137
4	2	58.2	15	1593	-	520
5	1	51.6	15	-	-	799
6	2	94.7	15	1469	-	43
7	2	70.7	15	1091	-	126
8	2	82.9	15	1472	-	607
9	3	62.7	15	1168	1453	527
10	2	63.1	15	1529	-	143
11	1	96.1	15	-	-	176
12	2	57	15	1457	-	882
13	3	95.6	15	1707	1501	214
Detection Chec	k (1=Detection; 0	=No Detection)				1

Trial Number			20			
Number of Bur	sts in Trial		14			
Chirp Center F	Chirp Center Frequency			54	97	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)		
1	1	95.7	14	-	-	117
2	1	93.1	14	-	-	720
3	1	55.8	14	-	-	297
4	1	76.7	14	-	-	284
5	2	68	14	1686	-	472
6	3	94.1	14	1796	1393	264
7	2	53.9	14	1293	-	525
8	1	99.3	14	-	-	155
9	2	73.3	14	1458	-	65
10	2	93.3	14	1196	-	451
11	3	55.8	14	1895	1034	243
12	1	66.4	14	-	-	228
13	2	65.6	14	1732	-	746
14	2	76.5	14	1187	-	522
Detection Chec	k (1=Detection; 0	=No Detection)	·	·	_	1

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 53 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			21			
Number of Bu	rsts in Trial		15			
Chirp Center Frequency				55	04	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)
1	1	85.1	13	-	-	565
2	2	72.5	13	1648	-	211
3	1	67.5	13	-	-	348
4	2	56.1	13	1360	-	156
5	1	71.1	13	-	-	718
6	2	93.1	13	1391	-	400
7	1	56.5	13	-	ı	482
8	1	63.8	13	-	ı	703
9	2	67.4	13	1727	ı	780
10	1	52.3	13	-	-	102
11	3	62.4	13	1228	1715	304
12	2	53.3	13	1630	ı	57
13	2	83.1	13	1205	1	768
14	2	93.7	13	1085	-	461
15	2	90.7	13	1297	1	746
Detection Chec	ck (1=Detection; 0	=No Detection)				1

Trial Number	Trial Number			22			
Number of Bur	rsts in Trial		16				
Chirp Center Frequency				55	04		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	2	98.8	12	1439	-	95	
2	1	54.5	12	-	-	676	
3	2	80.5	12	1360	-	8	
4	2	55.9	12	1906	-	373	
5	2	72.1	12	1623	-	254	
6	2	84.4	12	1604	-	480	
7	1	78.5	12	-	-	663	
8	1	88	12	-	-	314	
9	2	74.7	12	1157	-	596	
10	2	97.1	12	1673	-	264	
11	1	81.6	12	-	-	740	
12	1	83.6	12	-	-	163	
13	3	87.6	12	1757	1322	628	
14	2	58.5	12	1372	-	132	
15	3	91.8	12	1767	1183	106	
16	2	58.8	12	1432	-	659	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 54 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			23			
Number of Bur	rsts in Trial		17			
Chirp Center Frequency				55	05	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)
1	1	96	11	-	-	284
2	2	92.5	11	1241	-	488
3	2	89.5	11	1347	-	76
4	2	74.8	11	1607	-	688
5	2	60.6	11	1523	-	28
6	2	71.5	11	1659	-	383
7	2	71.1	11	1454	-	182
8	1	98.7	11	-	-	20
9	2	85.1	11	1770	-	576
10	2	89.2	11	1086	-	410
11	2	60.7	11	1101	-	458
12	2	75.2	11	1719	-	348
13	2	75.7	11	1799	-	481
14	3	56.7	11	1132	1884	587
15	2	65	11	1885	-	480
16	2	64.6	11	1910	-	195
17	3	69.9	11	1410	1190	396
Detection Chec	k (1=Detection; 0	=No Detection)				1

Trial Number			24					
Number of Bu	ırsts in Trial			18				
Chirp Center	Frequency		5505					
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)		
1	3	83.8	10	1290	1021	536		
2	2	66.9	10	1112	-	44		
3	3	91	10	1220	1504	611		
4	2	86.1	10	1678	-	456		
5	3	65.5	10	1928	1222	330		
6	1	62.6	10	-	-	297		
7	3	68.7	10	1505	1200	351		
8	3	59.2	10	1452	1114	230		
9	1	73.9	10	-	-	222		
10	1	77.2	10	-	-	57		
11	2	96.4	10	1357	-	399		
12	2	99.9	10	1173	-	299		
13	2	99.9	10	1520	-	464		
14	1	86.7	10	-	-	294		
15	1	92.6	10	-	-	653		
16	1	77.1	10	-	-	550		
17	2	81.1	10	1664	-	566		
18	3	68.4	10	1536	1309	580		
Detection Che	ck (1=Detection; 0	=No Detection)				1		

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 55 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number				2	5		
Number of Bu	ursts in Trial		19				
Chirp Center	Frequency			5505			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	3	68.2	9	1723	1868	471	
2	3	83.7	9	1711	1405	368	
3	2	69.7	9	1781	-	425	
4	1	59.7	9	-	-	440	
5	2	96.7	9	1484	-	123	
6	2	95.8	9	1319	-	261	
7	3	71.3	9	1095	1354	332	
8	3	53.2	9	1527	1427	427	
9	2	69.5	9	1771	-	397	
10	3	63.9	9	1075	1447	67	
11	2	93.4	9	1783	-	174	
12	2	77.3	9	1564	-	17	
13	2	73.1	9	1294	-	216	
14	1	77.4	9	-	-	292	
15	3	57.2	9	1722	1886	619	
16	2	68.7	9	1629	-	233	
17	1	60.8	9	-	-	226	
18	3	69.7	9	1128	1224	599	
19	1	62.2	9	-	-	433	
Detection Che	ck (1=Detection; C	=No Detection)				1	

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 56 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			26			
Number of Bur	sts in Trial			2	0	
Chirp Center F	requency		5506			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)		Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)
1	1	80.5	8	-	-	90
2	3	62.6	8	1406	1343	319
3	3	85.6	8	1190	1529	384
4	2	83.9	8	1208	-	567
5	2	92.4	8	1488	-	234
6	2	54	8	1529	-	535
7	3	81.3	8	1501	1812	325
8	1	98.5	8	-	-	532
9	1	85.8	8	-	-	272
10	2	84.7	8	1593	-	182
11	2	83.3	8	1705	-	134
12	2	79.8	8	1567	-	286
13	1	77.9	8	-	-	368
14	3	98.4	8	1510	1569	290
15	2	79.9	8	1588	-	231
16	3	78	8	1140	1353	353
17	3	55.2	8	1700	1327	53
18	3	71.9	8	1081	1224	44
19	1	62	8	-	-	298
20	3	70.5	8	1888	1442	529
Detection Chec	k (1=Detection; 0	=No Detection)				1

Trial Number			27			
Number of Bursts in Trial				3	3	
Chirp Center F	Chirp Center Frequency			55	02	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Local Spacing (us) Start Local Spacing (us) With Interval Interval			
1	2	69.1	18	1076	-	Interval (ms) 1436
2	2	62.1	18	1688	-	22
3	2	94.8	18	1891	-	897
4	1	75.8	18	-	-	1186
5	2	65.4	18	1713	-	589
6	2	97.7	18	1292	-	614
7	3	98.1	18	1670	1711	506
8	2	85.4	18	1672	-	776
Detection Chec	k (1=Detection; C	=No Detection)		•		0

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 57 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			28			
Number of Bursts in Trial				(9	
Chirp Center Frequency				55	01	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Location Spacing (us) Spacing (us) Within Interval (ms			
1	3	82	19	1233	1713	679
2	3	87.7	19	1554	1123	473
3	2	98.9	19	1518	-	869
4	1	55	19	-	-	719
5	1	93.6	19	-	-	902
6	2	58.7	19	1641	-	1243
7	2	88.7	19	1387	-	410
8	1	60.3	19	-	-	1154
9	1	97.7	19	-	-	512
Detection Che	ck (1=Detection; 0	=No Detection)				1

Trial Number	Trial Number			29			
Number of Bu	rsts in Trial			10			
Chirp Center Frequency				55	01		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	1	69.6	20	-	-	1131	
2	1	74.5	20	-	-	290	
3	1	60.9	20	-	-	895	
4	1	74.6	20	-	-	202	
5	2	99.3	20	1501	-	139	
6	2	95.3	20	1065	-	854	
7	2	91.9	20	1722	-	219	
8	2	51	20	1285	-	57	
9	2	87.7	20	1747	-	141	
10	1	87.2	20	-	-	596	
Detection Che	ck (1=Detection; C	=No Detection)				0	

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 58 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			30				
Number of B	Number of Bursts in Trial			11			
Chirp Center Frequency				55	07		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)			
1	3	59.9	5	1901	1196	935	
2	2	77.1	5	1590	-	1038	
3	2	62.7	5	1227	-	690	
4	1	77.1	5	-	-	547	
5	3	99.8	5	1798	1790	551	
6	2	61.5	5	1135	-	876	
7	2	77.5	5	1583	-	448	
8	2	57.3	5	1890	-	736	
9	2	53.5	5	1757	-	362	
10	1	66.6	5	-	-	836	
11	3	80.7	5	1811	1289	410	
Detection Che	eck (1=Detection; 0	=No Detection)	•	•	•	1	

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 59 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Type 6 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulses / Hop	Pulse Width (us)	PRI (us)	1=Detection 0=No Detection
1	5500	9	1	333	1
2	5500	9	1	333	1
3	5500	9	1	333	1
4	5500	9	1	333	1
5	5500	9	1	333	1
6	5500	9	1	333	1
7	5500	9	1	333	1
8	5500	9	1	333	1
9	5500	9	1	333	1
10	5500	9	1	333	1
11	5500	9	1	333	1
12	5500	9	1	333	1
13	5500	9	1	333	1
14	5500	9	1	333	1
15	5500	9	1	333	1
16	5500	9	1	333	1
17	5500	9	1	333	1
18	5500	9	1	333	1
19	5500	9	1	333	1
20	5500	9	1	333	1
21	5500	9	1	333	1
22	5500	9	1	333	1
23	5500	9	1	333	1
24	5500	9	1	333	1
25	5500	9	1	333	1
26	5500	9	1	333	1
27	5500	9	1	333	1
28	5500	9	1	333	1
29	5500	9	1	333	1
30	5500	9	1	333	1
	D	etection Percenta	ge (%)		100.00
Limit			•		70%
Test Res	ult				Complied

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 60 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Modulation Mode: 802.11ac (VHT40)

Type 1 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulse Per Second)	PRI (us)	1=Detection 0=No Detection
1	5491	1	1930.5	518	1
2	5492	23	326.2	3066	1
3	5493	19	1139.0	878	1
4	5495	12	1355.0	738	1
5	5496	4	1730.1	578	1
6	5497	8	1519.8	658	1
7	5498	15	1253.1	798	1
8	5499	6	1618.1	618	0
9	5500	14	1285.3	778	1
10	5501	3	1792.1	558	1
11	5502	13	1319.3	758	1
12	5503	9	1474.9	678	1
13	5504	7	1567.4	638	1
14	5505	17	1193.3	838	1
15	5506	10	1432.7	698	1
16	5507	-	1692.0	591	1
17	5508	-	328.1	3048	1
18	5509	-	373.4	2678	1
19	5510	-	574.4	1741	1
20	5511	-	1216.5	822	1
21	5512	-	801.3	1248	1
22	5513	-	488.5	2047	1
23	5514	-	956.0	1046	1
24	5515	-	517.6	1932	1
25	5516	-	1422.5	703	0
26	5517	-	542.0	1845	1
27	5518	-	741.3	1349	1
28	5519	-	881.8	1134	1
29	5520	-	427.4	2340	1
30	5525	-	628.9	1590	1
		Detection Percentage			93.333
imit		<u> </u>	`		60%
est Res	ult				Complied

SPORTON INTERNATIONAL INC.
TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 61 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Type 2 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491	2.6	221	23	1
2	5494	4.6	198	27	0
3	5497	1.1	184	29	1
4	5500	4.8	203	24	1
5	5503	2.4	162	25	0
6	5506	3.4	204	28	1
7	5509	2.3	170	27	1
8	5512	3.5	184	23	1
9	5515	4.9	150	27	1
10	5518	4.6	211	29	0
11	5521	2.9	158	23	0
12	5524	2.6	226	27	1
13	5527	1.6	204	26	1
14	5529	3.9	181	25	0
15	5526	4.6	202	24	1
16	5523	4.1	194	27	1
17	5520	2.3	193	28	1
18	5517	3.9	173	29	1
19	5514	4.3	188	23	1
20	5511	1.5	215	26	1
21	5508	4.9	227	27	1
22	5505	1.1	199	23	1
23	5502	4.5	155	29	0
24	5499	4.0	190	27	1
25	5496	2.4	151	23	0
26	5493	2.5	180	28	1
27	5500	2.5	228	23	1
28	5510	2.5	203	25	1
29	5515	1.5	188	25	1
30	5520	1.9	217	24	1
	D	etection Percentage (9	%)		76.667
Limit					60%
Test Resu	ult				Complied

SPORTON INTERNATIONAL INC.
TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 62 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Type 3 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5497	8.0	205	16	1
2	5498	6.7	382	18	1
3	5499	8.6	418	16	0
4	5500	9.4	351	17	1
5	5501	7.4	383	18	1
6	5502	9.8	232	16	0
7	5503	9.1	377	17	0
8	5504	9.6	457	16	1
9	5505	8.0	471	18	1
10	5506	9.0	304	18	1
11	5507	8.0	316	17	1
12	5508	9.8	325	16	1
13	5509	8.0	409	17	1
14	5510	9.9	200	17	1
15	5511	8.8	458	16	1
16	5512	8.0	232	18	0
17	5513	8.3	250	16	1
18	5514	8.7	270	16	1
19	5515	7.7	350	17	1
20	5516	7.1	230	16	1
21	5517	7.3	416	18	1
22	5518	7.6	498	18	1
23	5519	7.3	286	17	0
24	5520	7.3	287	16	1
25	5521	7.5	462	17	1
26	5522	6.2	300	17	1
27	5523	6.4	323	18	0
28	5524	7.1	420	16	1
29	5525	7.2	395	18	1
30	5526	8.4	377	16	1
•	D	etection Percentage (%)		80.000
Limit				_	60%
Test Resu	ult				Complied

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 63 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Type 4 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5529	18.0	242	15	1
2	5526	19.9	279	12	1
3	5524	12.9	487	14	0
4	5522	15.0	452	13	1
5	5520	16.3	230	12	1
6	5518	19.8	238	13	1
7	5516	18.2	420	16	1
8	5514	16.3	452	15	1
9	5512	14.2	495	12	0
10	5510	17.8	228	16	1
11	5508	19.1	211	16	1
12	5506	18.4	283	15	0
13	5504	11.8	411	12	1
14	5502	14.2	284	13	1
15	5500	13.9	202	12	1
16	5491	17.8	340	14	1
17	5492	15.6	290	16	1
18	5493	14.6	250	16	1
19	5494	14.4	484	15	0
20	5495	18.9	387	13	0
21	5496	11.1	348	15	1
22	5497	13.8	291	16	0
23	5498	14.3	295	12	1
24	5499	12.5	300	12	0
25	5500	12.5	322	14	1
26	5495	12.5	383	13	0
27	5501	15.7	322	16	1
28	5507	19.8	469	13	1
29	5513	18.6	406	15	1
30	5519	15.9	238	14	1
'	D	etection Percentage (9	%)		73.333
.imit			•		60%
est Resi	ult				Complied

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 64 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Total Type 1~4 Radar Statistical Performance

Radar Type #	Detection Percentage (%)
1	93.333
2	76.667
3	80.000
4	73.333
Aggregate (Radar Types 1-4)	80.833
Limit	80%
Test Result	Complied

Report No.: FZ792934-01

: 65 of 111

: Rev. 01

: Mar. 09, 2018

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456

Report Version
FAX: 886-3-327-0973

Issued Date

FCC ID: Z3WAIR4930



Type 5 Radar Statistical Performance

Center Freq. (MHz)	Low Edge (MHz)	High Edge (MHz)		
5500	5491	5529	VSG Freq. (MHz)	Detection
Trial	Chirp	Offset		
1	5	0	5510	0
2	20	0	5510	1
3	7	0	5510	1
4	8	0	5510	1
5	9	0	5510	1
6	10	0	5510	1
7	11	0	5510	1
8	12	0	5510	1
9	13	0	5510	1
10	14	0	5510	1
11	15	6	5497	1
12	16	6.4	5497	1
13	17	6.8	5498	1
14	20	8	5499	1
15	19	7.6	5499	1
16	18	7.2	5498	1
17	17	6.8	5498	0
18	16	6.4	5497	0
19	15	6	5497	1
20	14	5.6	5497	1
21	13	5.2	5524	1
22	12	4.8	5524	1
23	11	4.4	5525	1
24	10	4	5525	1
25	9	3.6	5525	1
26	8	3.2	5526	1
27	18	7.2	5522	1
28	19	7.6	5521	1
29	20	8	5521	1
30	5	2	5527	1
		otal		27
	Detection Per	centage (%)		90%
Limit				80%
Test Result				Complied

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 66 of 111 Report Version : Rev. 01

Issued Date

: Mar. 09, 2018



Trial Number				1			
Number of Bu	rsts in Trial		8				
Chirp Center F	requency			55	10		
Burst	No. of Pulses	Pulse Width (us)					
1	1	62.1	5	-	-	1091	
2	2	56	5	1729	-	133	
3	2	91.3	5	1230	-	1057	
4	3	50.7	5	1762	1616	1442	
5	2	92.6	5	1723	-	544	
6	2	87.3	5	1302	-	1089	
7	2	59.5	5	1374			
8	2	52.2	5	1653	-	1237	
Detection Chec	ck (1=Detection; C	=No Detection)				0	

Trial Number	Trial Number			2				
Number of B	ursts in Trial		9					
Chirp Center	Frequency			55	10			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)				
1	3	90	20	1007	1326	30		
2	2	73.7	20	1785	-	979		
3	1	78.1	20	-	-	683		
4	2	92.4	20	1281	-	950		
5	1	61.2	20	-	-	612		
6	3	67.2	20	1525	1870	17		
7	1	78.5	20	-	-	429		
8	2	60.3	20	936				
9	3	92.9	20	1403	1476	548		
Detection Che	ck (1=Detection; 0	=No Detection)				1		

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 67 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			3			
Number of Bur	rsts in Trial		10			
Chirp Center F	Chirp Center Frequency			55	10	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)		
1	3	63.4	7	1574	1607	801
2	1	98	7	-	-	966
3	1	58.7	7	-	-	185
4	1	88	7	-	-	1012
5	3	79.5	7	1562	1370	943
6	3	57.1	7	1900	1188	686
7	2	64.4	7	1090	-	599
8	1	78.7	7	-	-	1089
9	1	69.3	7	-	-	188
10	3	55.3	7	1375	1691	933
Detection Chec	k (1=Detection; 0	=No Detection)				1

Trial Number						
Number of Bui	rsts in Trial		11			
Chirp Center F	requency			55	10	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)		
1	2	74.3	8	1642	-	24
2	1	83.1	8	-	-	985
3	2	59.5	8	1680	-	988
4	2	59.8	8	1786	-	800
5	2	77.6	8	1617	-	339
6	2	79.9	8	1553	-	1040
7	1	56	8	-	-	544
8	3	71.4	8	1406	1927	452
9	1	97.4	8	-	-	204
10	2	98.3	8	1037	-	926
11	1	63.6	8	-	-	1052
Detection Chec	k (1=Detection; C	=No Detection)				1

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 68 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			5					
Number of Bur	Number of Bursts in Trial			12				
Chirp Center F	requency			55	10			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '				
1	1	50	9	_	-	Interval (ms) 557		
2	2	62.5	9	1731	-	567		
3	2	55.4	9	1070	-	460		
4	1	65.7	9	-	-	4		
5	2	58	9	1512	-	64		
6	2	60.9	9	1230	-	650		
7	3	89.6	9	1598	1738	235		
8	3	84.4	9	1271	1617	873		
9	3	72.3	9	1498	1321	901		
10	1	58.9	9	-	-	663		
11	2	74.8	9	1584	-	919		
12	1	71.8	9	-	-	375		
Detection Check	k (1=Detection; 0	=No Detection)				1		

Trial Number			6				
Number of Bursts in Trial			13				
Chirp Center Frequency			5510				
Burst	Buret No of Pulsos 1 ms 1					Starting Location Within Interval (ms)	
1	2	88.1	10	1257	-	846	
2	1	58.7	10	-	-	725	
3	2	97.1	10	1037	-	30	
4	3	83.1	10	1029	1106	490	
5	1	62.1	10	-	-	262	
6	2	71.4	10	1058	-	283	
7	2	86.3	10	1867	-	49	
8	3	77.3	10	1418	1876	634	
9	1	78.9	10	-	-	304	
10	3	79.2	10	1055	1572	564	
11	3	52	10	1582	1836	852	
12	3	56.5	10	1195	1542	525	
13	3	100	10	1638	1729	750	
Detection Chec	ck (1=Detection; C	=No Detection)				1	

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 69 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			7				
Number of Bursts in Trial			14				
Chirp Center Frequency			5510				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	2	92.7	11	1208	-	231	
2	2	81.3	11	1144	1	804	
3	2	60.4	11	1555	-	34	
4	2	62.1	11	1320	-	427	
5	1	50	11	-	ı	577	
6	3	65.9	11	1020	1365	3	
7	2	73.8	11	1308	ı	51	
8	2	74.3	11	1143	ı	360	
9	1	62.9	11	-	-	394	
10	2	74.8	11	1404	ı	317	
11	2	69.7	11	1309	ı	532	
12	2	69.8	11	1688	1	339	
13	2	77.4	11	1857	-	381	
14	1	55.1	11	-	1	426	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

Trial Number			8			
Number of Bursts in Trial			15			
Chirp Center Frequency			5510			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)		
1	1	91.7	12	-	-	776
2	2	90	12	1196	-	187
3	3	92.3	12	1486	1853	448
4	2	66.8	12	1545	-	702
5	1	64	12	-	-	403
6	3	95.4	12	1123	1473	230
7	3	66.8	12	1867	1401	604
8	3	67.7	12	1472	1397	38
9	1	68.2	12	-	-	735
10	2	82.2	12	1297	-	610
11	1	92.1	12	-	-	618
12	2	57	12	1764	-	705
13	2	58.5	12	1310	-	22
14	3	85.5	12	1630	1447	641
15	2	82.2	12	1371	-	109
Detection Check (1=Detection; 0=No Detection)						

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 70 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			9				
Number of Bursts in Trial			16				
Chirp Center Frequency			5510				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)			
1	2	74.4	13	1707	-	442	
2	2	63.6	13	1725	-	280	
3	2	71.3	13	1704	-	459	
4	3	77.6	13	1063	1405	197	
5	3	65.2	13	1731	1294	101	
6	3	55.1	13	1109	1549	17	
7	2	96.8	13	1034	-	131	
8	3	80.8	13	1533	1051	365	
9	1	60.4	13	-	-	222	
10	2	61.8	13	1312	-	371	
11	2	71.3	13	1657	-	33	
12	2	98.1	13	1024	-	291	
13	1	57.9	13	-	-	188	
14	1	91.8	13	-	-	163	
15	2	56.7	13	1259	-	426	
16	2	89.7	13	1690	-	606	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

Trial Number			10				
Number of Bursts in Trial			17				
Chirp Center Frequency			5510				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)			
1	2	74.4	14	1107	-	462	
2	1	87.6	14	-	-	653	
3	2	61.7	14	1741	-	457	
4	2	57.5	14	1566	-	388	
5	2	66.1	14	1855	-	63	
6	3	70.1	14	1044	1012	136	
7	1	66.4	14	-	-	343	
8	1	59.2	14	-	-	349	
9	2	88.3	14	1240	-	362	
10	1	64.7	14	-	-	221	
11	2	73	14	1703	-	144	
12	2	81.7	14	1450	-	671	
13	3	70.1	14	1741	1278	320	
14	1	63.6	14	-	-	196	
15	1	58.7	14	-	-	413	
16	2	65.9	14	1478	-	170	
17	1	72.7	14	-	-	564	
Detection Check (1=Detection; 0=No Detection)							

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 71 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			11				
Number of Bursts in Trial			18				
Chirp Center Frequency				5497			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	72.1	15	1193	-	130	
2	3	76.3	15	1484	1390	114	
3	1	86.1	15	-	-	14	
4	1	73.2	15	-	-	604	
5	1	81.2	15	-	-	548	
6	2	99.5	15	1398	-	173	
7	1	93.9	15	-	-	262	
8	2	75.9	15	1921	-	38	
9	3	79.2	15	1100	1429	84	
10	3	77	15	1166	1799	610	
11	1	91.8	15	-	-	339	
12	3	56.8	15	1330	1556	580	
13	2	83.1	15	1556	-	295	
14	2	63	15	1552	-	156	
15	1	65.7	15	-	-	439	
16	1	64.5	15	-	-	188	
17	1	88.5	15	-	-	419	
18	1	60.6	15	-	-	205	
Detection Che	Detection Check (1=Detection; 0=No Detection)						

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 72 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number				12					
Number of B	ursts in Trial		19						
Chirp Center	Chirp Center Frequency			54	97				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)						
1	2	90.5	16	1299	_	Interval (ms) 381			
2	2	88.4	16	1418	-	327			
3	2	53.7	16	1055	-	536			
4	1	80.5	16	-	-	285			
5	1	50.4	16	-	-	398			
6	2	61.2	16	1749	-	439			
7	2	78.8	16	1065	-	129			
8	3	75	16	1748	1820	325			
9	2	96.7	16	1254	-	440			
10	3	76.3	16	1848	1106	397			
11	1	73.3	16	-	-	232			
12	2	92.4	16	1317	-	91			
13	2	92.4	16	1854	-	256			
14	3	64.4	16	1240	1634	582			
15	2	67.3	16	1473	-	117			
16	2	84.1	16	1795	-	202			
17	1	80.9	16	-	-	135			
18	1	74.6	16	-	-	396			
19	2	97.6	16	1805	-	615			
Detection Che	ck (1=Detection; C	=No Detection)	·	·	·	1			

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 73 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number	Trial Number			13				
Number of Bu	rsts in Trial			2	0			
Chirp Center	Frequency			5498				
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)		
1	2	66.1	17	1417	-	388		
2	2	86.7	17	1693	-	348		
3	2	70.5	17	1263	-	215		
4	2	78	17	1446	-	28		
5	2	66	17	1185	-	585		
6	2	80.6	17	1855	-	65		
7	1	95.5	17	-	-	92		
8	1	98.8	17	-	-	68		
9	3	64.3	17	1641	1108	517		
10	1	75.1	17	-	-	121		
11	2	72.6	17	1499	-	448		
12	1	60.3	17	-	-	567		
13	2	54.9	17	1056	-	245		
14	2	98.8	17	1023	-	584		
15	2	60.9	17	1243	-	579		
16	2	62.7	17	1226	-	464		
17	1	80.1	17	-	-	89		
18	2	70.9	17	1711	-	153		
19	1	90.7	17	-	-	282		
20	1	98.9	17	-	-	71		
Detection Ched	ck (1=Detection; C	=No Detection)				1		

Trial Number	Trial Number			14				
Number of Bursts in Trial				3	3			
Chirp Center Frequency				54	99			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Locati (MHz) Spacing (us) Spacing (us)					
1	2	67.5	20	1542	_	Interval (ms) 947		
2	3	83.6	20	1272	1696	124		
3	2	93.2	20	1877	-	701		
4	1	55.6	20	-	-	1123		
5	3	84.2	20	1733	1619	756		
6	3	69.1	20	1612	1071	1		
7	2	66.9	20	1905	-	7		
8	3	86.8	20 1697 1621 1082					
Detection Chec	k (1=Detection; C	=No Detection)		•		1		

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 74 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			15					
Number of Bursts in Trial				(9			
Chirp Center F	requency			54	99			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Locati (MHz) Spacing (us) Spacing (us) Within Interval					
1	2	62.2	19	1571	-	949		
2	2	85	19	1669	-	189		
3	2	64.5	19	1505	-	176		
4	2	50.4	19	1325	-	538		
5	2	66.1	19	1483	-	908		
6	2	71.2	19	1110	-	1017		
7	3	53.7	19	1445	1677	492		
8	3	62.5	19	1596	1341	349		
9	3	62	19 1929 1221 1105					
Detection Chec	k (1=Detection; 0	=No Detection)				1		

Trial Number	Trial Number			16			
Number of Bu	rsts in Trial			10			
Chirp Center Frequency				54	98		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	2	80.5	18	1910	-	284	
2	2	64.2	18	1661	-	751	
3	2	90.1	18	1041	-	491	
4	2	69.8	18	1495	-	107	
5	1	73.1	18	-	-	490	
6	3	77.2	18	1418	1145	1155	
7	3	52.6	18	1732	1787	772	
8	2	71.4	18	1562	-	121	
9	2	89.8	18	1491	-	89	
10	2	76.4	18	1355	-	615	
Detection Che	ck (1=Detection; C	=No Detection)				1	

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 75 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			17				
Number of Bu	ırsts in Trial			11			
Chirp Center Frequency				54	98		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Spacing (us) Pulse 2-to-3 Location Spacing (us) Within Interval (r				
1	2	51.2	17	1236	-	740	
2	1	71.7	17	-	-	941	
3	2	74.7	17	1164	-	370	
4	2	50.9	17	1919	-	371	
5	2	65.2	17	1206	-	1033	
6	2	98	17	1182	-	346	
7	2	58.7	17	1612	-	639	
8	1	63.8	17	-	-	1056	
9	3	86.3	17	1545	1065	205	
10	1	94.4	17	-	-	753	
11	3	88.5	17	1699	1319	58	
Detection Che	ck (1=Detection; C	=No Detection)	•	•		0	

Trial Number			18			
Number of Bur	sts in Trial		12			
Chirp Center Frequency				54	97	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Local Spacing (us) With			
1	2	88.7	16	1405	-	Interval (ms) 448
2	3	90.2	16	1544	1235	621
3	1	96.5	16	-	-	512
4	2	80.5	16	1090	-	321
5	2	63.7	16	1268	-	798
6	1	53.4	16	-	-	809
7	2	52.3	16	1043	-	301
8	3	54.7	16	1701	1104	796
9	3	75.6	16	1923	1729	669
10	2	59.2	16	1244	-	369
11	1	56.3	16	-	-	51
12	2	87.8	16	1608	-	733
Detection Chec	k (1=Detection; 0	=No Detection)				0

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 76 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number	Trial Number			19				
Number of Bu	ırsts in Trial		13					
Chirp Center Frequency				54	97			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)					
1	2	68.2	15	1104	-	229		
2	2	58.4	15	1627	-	488		
3	3	74.7	15	1861	1015	137		
4	2	58.2	15	1593	-	520		
5	1	51.6	15	-	-	799		
6	2	94.7	15	1469	-	43		
7	2	70.7	15	1091	-	126		
8	2	82.9	15	1472	-	607		
9	3	62.7	15	1168	1453	527		
10	2	63.1	15	1529	-	143		
11	1	96.1	15	-	-	176		
12	2	57	15	1457	-	882		
13	3	95.6	15	1707	1501	214		
Detection Che	ck (1=Detection; C	=No Detection)				1		

Trial Number			20				
Number of Bu	ursts in Trial		14				
Chirp Center	Frequency			54	97		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)			
1	1	95.7	14	-	-	117	
2	1	93.1	14	-	-	720	
3	1	55.8	14	-	-	297	
4	1	76.7	14	-	-	284	
5	2	68	14	1686	-	472	
6	3	94.1	14	1796	1393	264	
7	2	53.9	14	1293	-	525	
8	1	99.3	14	-	-	155	
9	2	73.3	14	1458	-	65	
10	2	93.3	14	1196	-	451	
11	3	55.8	14	1895	1034	243	
12	1	66.4	14	-	-	228	
13	2	65.6	14	1732	-	746	
14	2	76.5	14	1187	-	522	
Detection Che	ck (1=Detection; 0	=No Detection)				1	

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 77 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			21				
Number of Bu	rsts in Trial		15				
Chirp Center F	Chirp Center Frequency			55	24		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	1	85.1	13	-	-	565	
2	2	72.5	13	1648	-	211	
3	1	67.5	13	-	-	348	
4	2	56.1	13	1360	-	156	
5	1	71.1	13	-	-	718	
6	2	93.1	13	1391	-	400	
7	1	56.5	13	-	-	482	
8	1	63.8	13	-	-	703	
9	2	67.4	13	1727	-	780	
10	1	52.3	13	-	-	102	
11	3	62.4	13	1228	1715	304	
12	2	53.3	13	1630	-	57	
13	2	83.1	13	1205	-	768	
14	2	93.7	13	1085	-	461	
15	2	90.7	13	1297	-	746	
Detection Chec	ck (1=Detection; 0	=No Detection)				1	

Trial Number	Trial Number			22				
Number of Bu	rsts in Trial		16					
Chirp Center Frequency				55	24			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)					
1	2	98.8	12	1439	-	95		
2	1	54.5	12	-	-	676		
3	2	80.5	12	1360	-	8		
4	2	55.9	12	1906	-	373		
5	2	72.1	12	1623	-	254		
6	2	84.4	12	1604	-	480		
7	1	78.5	12	-	-	663		
8	1	88	12	-	-	314		
9	2	74.7	12	1157	-	596		
10	2	97.1	12	1673	-	264		
11	1	81.6	12	-	-	740		
12	1	83.6	12	-	-	163		
13	3	87.6	12	1757	1322	628		
14	2	58.5	12	1372	-	132		
15	3	91.8	12	1767	1183	106		
16	2	58.8	12	1432	-	659		
Detection Chee	ck (1=Detection; 0	=No Detection)				1		

SPORTON INTERNATIONAL INC.
TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 78 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			23				
Number of Bu	rsts in Trial		17				
Chirp Center Frequency				55	25		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)			
1	1	96	11	-	-	284	
2	2	92.5	11	1241	-	488	
3	2	89.5	11	1347	-	76	
4	2	74.8	11	1607	-	688	
5	2	60.6	11	1523	-	28	
6	2	71.5	11	1659	-	383	
7	2	71.1	11	1454	-	182	
8	1	98.7	11	-	-	20	
9	2	85.1	11	1770	-	576	
10	2	89.2	11	1086	-	410	
11	2	60.7	11	1101	-	458	
12	2	75.2	11	1719	-	348	
13	2	75.7	11	1799	-	481	
14	3	56.7	11	1132	1884	587	
15	2	65	11	1885	-	480	
16	2	64.6	11	1910	-	195	
17	3	69.9	11	1410	1190	396	
Detection Chec	k (1=Detection; C	=No Detection)				1	

Trial Number			24				
Number of Bur	sts in Trial			1	8		
Chirp Center F	requency			55	25		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)				
1	3	83.8	10	1290	1021	Interval (ms) 536	
2	2	66.9	10	1112	-	44	
3	3	91	10	1220	1504	611	
4	2	86.1	10	1678	-	456	
5	3	65.5	10	1928	1222	330	
6	1	62.6	10	-	-	297	
7	3	68.7	10	1505	1200	351	
8	3	59.2	10	1452	1114	230	
9	1	73.9	10	-	-	222	
10	1	77.2	10	-	-	57	
11	2	96.4	10	1357	-	399	
12	2	99.9	10	1173	-	299	
13	2	99.9	10	1520	-	464	
14	1	86.7	10	-	-	294	
15	1	92.6	10	-	-	653	
16	1	77.1	10	-	-	550	
17	2	81.1	10	1664	-	566	
18	3	68.4	10	1536	1309	580	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 79 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number				25				
Number of Bu	ursts in Trial		19					
Chirp Center	Chirp Center Frequency			55	25			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)					
1	3	68.2	9	1723	1868	471		
2	3	83.7	9	1711	1405	368		
3	2	69.7	9	1781	-	425		
4	1	59.7	9	-	-	440		
5	2	96.7	9	1484	-	123		
6	2	95.8	9	1319	-	261		
7	3	71.3	9	1095	1354	332		
8	3	53.2	9	1527	1427	427		
9	2	69.5	9	1771	-	397		
10	3	63.9	9	1075	1447	67		
11	2	93.4	9	1783	-	174		
12	2	77.3	9	1564	-	17		
13	2	73.1	9	1294	-	216		
14	1	77.4	9	-	-	292		
15	3	57.2	9	1722	1886	619		
16	2	68.7	9	1629	-	233		
17	1	60.8	9	-	-	226		
18	3	69.7	9	1128	1224	599		
19	1	62.2	9	-	-	433		
Detection Che	ck (1=Detection; C	=No Detection)				1		

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 80 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			26				
Number of Bui	rsts in Trial			2	0		
Chirp Center F	Chirp Center Frequency			55	26		
Burst	urst No. of Pulses Pulse Width (us) Chirp Width Pulse 1-to-2 Spacing (us) Pulse 2-to-3 Spacing (us)			Starting Location Within Interval (ms)			
1	1	80.5	8	-	-	90	
2	3	62.6	8	1406	1343	319	
3	3	85.6	8	1190	1529	384	
4	2	83.9	8	1208	-	567	
5	2	92.4	8	1488	-	234	
6	2	54	8	1529	-	535	
7	3	81.3	8	1501	1812	325	
8	1	98.5	8	-	-	532	
9	1	85.8	8	-	-	272	
10	2	84.7	8	1593	-	182	
11	2	83.3	8	1705	-	134	
12	2	79.8	8	1567	-	286	
13	1	77.9	8	-	-	368	
14	3	98.4	8	1510	1569	290	
15	2	79.9	8	1588	-	231	
16	3	78	8	1140	1353	353	
17	3	55.2	8	1700	1327	53	
18	3	71.9	8	1081	1224	44	
19	1	62	8	-	-	298	
20	3	70.5	8	1888	1442	529	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

Trial Number	Trial Number			27				
Number of Bur	rsts in Trial		8					
Chirp Center F	Chirp Center Frequency			55	22			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Spacing (us)			Starting Location Within		
1	2	69.1	18	1076	_	Interval (ms) 1436		
2	2	62.1	18	1688	-	22		
3	2	94.8	18	1891	-	897		
4	1	75.8	18	-	-	1186		
5	2	65.4	18	1713	-	589		
6	2	97.7	18	614				
7	3	98.1	18 1670 1711 506					
8	2	85.4	18	776				
Detection Chec	k (1=Detection; C	=No Detection)		•		1		

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 81 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			28					
Number of Bursts in Trial				(9			
Chirp Center Frequency				55	21			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)		
1	3	82	19	1233	1713	679		
2	3	87.7	19	1554	1123	473		
3	2	98.9	19	1518	-	869		
4	1	55	19	-	-	719		
5	1	93.6	19	-	-	902		
6	2	58.7	19	1641	-	1243		
7	2	88.7	19 1387 - 4					
8	1	60.3	19 11!					
9	9 1 97.7 19							
Detection Chec	k (1=Detection; 0	=No Detection)				1		

Trial Number				2	9		
Number of Bui	Number of Bursts in Trial			10			
Chirp Center Frequency				55	21		
Burst	Burst No. of Pulses Pulse Width (us) Chirp Width Pulse 1-to-2 Spacing (us) Spacing (us)				Starting Location Within Interval (ms)		
1	1	69.6	20	-	-	1131	
2	1	74.5	20	-	-	290	
3	1	60.9	20	-	-	895	
4	1	74.6	20	-	-	202	
5	2	99.3	20	1501	-	139	
6	2	95.3	20	1065	-	854	
7	2	91.9	20	1722	-	219	
8	2	51	20	1285	-	57	
9	2	87.7	20	1747	-	141	
10	1	87.2	20	-	-	596	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 82 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number	•		30					
Number of B	umber of Bursts in Trial			11				
Chirp Center Frequency				55	27			
Burst	No. of Pulses	No. of Pulses Pulse Width (us) Chirp Width Pulse 1-to-2 Pulse 2-to-3 Spacing (us) Spacing (us)			Starting Location Within Interval (ms)			
1	3	59.9	5	1901	1196	935		
2	2	77.1	5	1590	-	1038		
3	2	62.7	5	1227	-	690		
4	1	77.1	5	-	-	547		
5	3	99.8	5	1798	1790	551		
6	2	61.5	5	1135	-	876		
7	2	77.5	5	1583	-	448		
8	2	57.3	5	1890	-	736		
9	2	53.5	5 1757 - 362					
10	1	66.6	5	-	-	836		
11	3	80.7	5	1811	1289	410		
Detection Che	eck (1=Detection; 0	=No Detection)	•	•	•	1		

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 83 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Type 6 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulses / Hop	Pulse Width (us)	PRI (us)	1=Detection 0=No Detection
1	5510	9	1	333	1
2	5510	9	1	333	1
3	5510	9	1	333	1
4	5510	9	1	333	1
5	5510	9	1	333	1
6	5510	9	1	333	1
7	5510	9	1	333	1
8	5510	9	1	333	1
9	5510	9	1	333	1
10	5510	9	1	333	1
11	5510	9	1	333	1
12	5510	9	1	333	1
13	5510	9	1	333	1
14	5510	9	1	333	1
15	5510	9	1	333	1
16	5510	9	1	333	1
17	5510	9	1	333	1
18	5510	9	1	333	1
19	5510	9	1	333	1
20	5510	9	1	333	1
21	5510	9	1	333	1
22	5510	9	1	333	1
23	5510	9	1	333	1
24	5510	9	1	333	1
25	5510	9	1	333	1
26	5510	9	1	333	1
27	5510	9	1	333	1
28	5510	9	1	333	1
29	5510	9	1	333	1
30	5510	9	1	333	1
	D	etection Percenta	age (%)		100.00
_imit			·		70%
Test Res	Complied				

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 84 of 111
Report Version : Rev. 01

Issued Date : Mar. 09, 2018



Modulation Mode: 802.11ac (VHT80)

Type 1 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulse Per Second)	PRI (us)	1=Detection 0=No Detection
1	5508	1	1930.5	518	1
2	5565	23	326.2	3066	1
3	5517	19	1139.0	878	1
4	5533	12	1355.0	738	1
5	5527	4	1730.1	578	1
6	5522	8	1519.8	658	1
7	5553	15	1253.1	798	1
8	5518	6	1618.1	618	1
9	5551	14	1285.3	778	1
10	5545	3	1792.1	558	1
11	5547	13	1319.3	758	1
12	5567	9	1474.9	678	1
13	5504	7	1567.4	638	1
14	5523	17	1193.3	838	1
15	5558	10	1432.7	698	1
16	5538	-	1692.0	591	1
17	5521	-	328.1	3048	0
18	5560	-	373.4	2678	1
19	5563	-	574.4	1741	1
20	5550	-	1216.5	822	1
21	5548	-	801.3	1248	0
22	5567	-	488.5	2047	1
23	5499	-	956.0	1046	1
24	5496	-	517.6	1932	1
25	5507	-	1422.5	703	1
26	5537	-	542.0	1845	1
27	5520	-	741.3	1349	1
28	5531	-	881.8	1134	1
29	5498	-	427.4	2340	1
30	5533	-	628.9	1590	1
		Detection Percentage	(%)		93.333
Limit					60%
Test Res	ult	<u> </u>	<u> </u>		Complied

SPORTON INTERNATIONAL INC.
TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 85 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Type 2 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5546	2.6	221	23	1
2	5546	4.6	198	27	1
3	5538	1.1	184	29	1
4	5539	4.8	203	24	0
5	5563	2.4	162	25	1
6	5562	3.4	204	28	1
7	5495	2.3	170	27	1
8	5541	3.5	184	23	1
9	5530	4.9	150	27	1
10	5547	4.6	211	29	1
11	5501	2.9	158	23	1
12	5508	2.6	226	27	1
13	5553	1.6	204	26	1
14	5534	3.9	181	25	1
15	5505	4.6	202	24	1
16	5539	4.1	194	27	1
17	5543	2.3	193	28	0
18	5530	3.9	173	29	1
19	5534	4.3	188	23	1
20	5515	1.5	215	26	1
21	5497	4.9	227	27	1
22	5561	1.1	199	23	1
23	5526	4.5	155	29	1
24	5545	4.0	190	27	0
25	5529	2.4	151	23	1
26	5537	2.5	180	28	1
27	5568	2.5	228	23	0
28	5512	2.5	203	25	1
29	5534	1.5	188	25	1
30	5530	1.9	217	24	1
	D	etection Percentage (%)		86.667
imit					60%
est Resi	ult				Complied

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 86 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Type 3 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5500	8.0	205	16	1
2	5563	6.7	382	18	1
3	5493	8.6	418	16	0
4	5538	9.4	351	17	1
5	5532	7.4	383	18	1
6	5493	9.8	232	16	0
7	5498	9.1	377	17	1
8	5568	9.6	457	16	1
9	5529	8.0	471	18	0
10	5504	9.0	304	18	1
11	5499	8.0	316	17	1
12	5509	9.8	325	16	1
13	5535	8.0	409	17	1
14	5504	9.9	200	17	1
15	5544	8.8	458	16	1
16	5564	8.0	232	18	1
17	5561	8.3	250	16	1
18	5503	8.7	270	16	1
19	5500	7.7	350	17	1
20	5556	7.1	230	16	0
21	5562	7.3	416	18	1
22	5539	7.6	498	18	1
23	5552	7.3	286	17	1
24	5498	7.3	287	16	1
25	5515	7.5	462	17	1
26	5503	6.2	300	17	1
27	5565	6.4	323	18	1
28	5523	7.1	420	16	1
29	5528	7.2	395	18	0
30	5501	8.4	377	16	1
	D	etection Percentage (9	%)		83.333
Limit	60%				
Test Resu	Complied				

SPORTON INTERNATIONAL INC.
TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 87 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Type 4 Radar Statistical Performance

Trial #	dar Statistical Perfo	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5551	18.0	242	15	1
2	5546	19.9	279	12	1
3	5540	12.9	487	14	1
4	5509	15.0	452	13	0
5	5497	16.3	230	12	1
6	5526	19.8	238	13	1
7	5521	18.2	420	16	1
8	5524	16.3	452	15	0
9	5522	14.2	495	12	1
10	5498	17.8	228	16	1
11	5499	19.1	211	16	0
12	5507	18.4	283	15	0
13	5501	11.8	411	12	1
14	5533	14.2	284	13	0
15	5561	13.9	202	12	1
16	5564	17.8	340	14	1
17	5527	15.6	290	16	1
18	5496	14.6	250	16	1
19	5548	14.4	484	15	1
20	5507	18.9	387	13	1
21	5550	11.1	348	15	1
22	5565	13.8	291	16	1
23	5492	14.3	295	12	1
24	5514	12.5	300	12	1
25	5508	12.5	322	14	1
26	5521	12.5	383	13	1
27	5495	15.7	322	16	1
28	5558	19.8	469	13	1
29	5508	18.6	406	15	1
30	5512	15.9	238	14	0
	D	etection Percentage (%	%)		80.000
Limit					60%
Test Resu	ult				Complied

SPORTON INTERNATIONAL INC.
TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 88 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Total Type 1~4 Radar Statistical Performance

Radar Type #	Detection Percentage (%)
1	93.333
2	86.667
3	83.333
4	80.000
Aggregate (Radar Types 1-4)	85.833
Limit	80%
Test Result	Complied

Report No.: FZ792934-01

 SPORTON INTERNATIONAL INC.
 Page No.
 : 89 of 111

 TEL: 886-3-327-3456
 Report Version
 : Rev. 01

 FAX: 886-3-327-0973
 Issued Date
 : Mar. 09, 2018

FCC ID: Z3WAIR4930



Type 5 Radar Statistical Performance

Type 5 Radar Statistic		11: 1 = 1 (5411.)		
Center Freq. (MHz)	Low Edge (MHz)	High Edge (MHz)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	5 :
5500	5492	5568	VSG Freq. (MHz)	Detection
Trial	Chirp	Offset		
1	5	0	5530	1
2	20	0	5530	1
3	7	0	5530	1
4	8	0	5530	1
5	9	0	5530	11
6	10	0	5530	1
7	11	0	5530	1
8	12	0	5530	1
9	13	0	5530	1
10	14	0	5530	1
11	15	6	5498	1
12	16	6.4	5498	1
13	17	6.8	5499	1
14	20	8	5500	1
15	19	7.6	5500	1
16	18	7.2	5499	1
17	17	6.8	5499	1
18	16	6.4	5498	1
19	15	6	5498	1
20	14	5.6	5498	1
21	13	5.2	5563	1
22	12	4.8	5563	1
23	11	4.4	5564	1
24	10	4	5564	0
25	9	3.6	5564	1
26	8	3.2	5565	1
27	18	7.2	5561	1
28	19	7.6	5560	0
29	20	8	5560	1
30	5	2	5566	1
		otal		28
	Detection Per			93%
Limit	20.000111 01			80%
Test Result				Complied
				30p.1104

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 90 of 111
Report Version : Rev. 01

Issued Date : Mar. 09, 2018



Trial Number				•				
Number of Bur	rsts in Trial			3	3			
Chirp Center F	requency			55	30			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Spacing (us) Spacing (us)			Starting Location Within Interval (ms)		
1	1	62.1	5	-	-	1091		
2	2	56	5	1729	-	133		
3	2	91.3	5	1230	-	1057		
4	3	50.7	5	1762	1616	1442		
5	2	92.6	5	1723	-	544		
6	2	87.3	5	1089				
7	2	59.5	5 1291 - 1374					
8	2	52.2	5	1237				
Detection Chec	k (1=Detection; 0	=No Detection)				1		

Trial Number			2					
Number of Bu	rsts in Trial	Trial 9			9			
Chirp Center F	requency			55	30			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Log (MHz) Spacing (us) Spacing (us) W			Starting Location Within Interval (ms)		
1	3	90	20	1007	1326	30		
2	2	73.7	20	1785	-	979		
3	1	78.1	20	-	-	683		
4	2	92.4	20	1281	-	950		
5	1	61.2	20	-	-	612		
6	3	67.2	20	1525	1870	17		
7	1	78.5	20	429				
8	2	60.3	20 1931 - 936					
9	3	92.9	20 1403 1476 548					
Detection Chec	ck (1=Detection; 0	=No Detection)				1		

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 91 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number	Trial Number			3				
Number of Bursts in Trial			10					
Chirp Center F	requency			55	30			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)				
1	3	63.4	7	1574	1607	801		
2	1	98	7	-	-	966		
3	1	58.7	7	-	-	185		
4	1	88	7	-	-	1012		
5	3	79.5	7	1562	1370	943		
6	3	57.1	7	1900	1188	686		
7	2	64.4	7	1090	-	599		
8	1	78.7	7	-	-	1089		
9	1	69.3	7 - 188					
10	3	55.3	7 1375 1691 933					
Detection Chec	k (1=Detection; 0	=No Detection)				1		

Trial Number	Trial Number			4				
Number of Bu	Number of Bursts in Trial			1	1			
Chirp Center I	Frequency			55	30			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Locati Spacing (us) Spacing (us) Within Interval					
1	2	74.3	8	1642	-	24		
2	1	83.1	8	-	-	985		
3	2	59.5	8	1680	-	988		
4	2	59.8	8	1786	-	800		
5	2	77.6	8	1617	-	339		
6	2	79.9	8	1553	-	1040		
7	1	56	8	-	-	544		
8	3	71.4	8	1406	1927	452		
9	1	97.4	8	-	-	204		
10	2	98.3	8 1037 -					
11	1	63.6	8 1052					
Detection Ched	ck (1=Detection; C	=No Detection)			•	1		

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 92 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number	Trial Number			5				
Number of Bursts in Trial			12					
Chirp Center F	requency			55	30			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Loc (MHz) Spacing (us) Spacing (us) W				
1	1	50	9	_	-	Interval (ms) 557		
2	2	62.5	9	1731	-	567		
3	2	55.4	9	1070	-	460		
4	1	65.7	9	-	-	4		
5	2	58	9	1512	-	64		
6	2	60.9	9	1230	-	650		
7	3	89.6	9	1598	1738	235		
8	3	84.4	9	1271	1617	873		
9	3	72.3	9	1498	1321	901		
10	1	58.9	9					
11	2	74.8	9 1584 - 919					
12	1	71.8	9 375					
Detection Check	k (1=Detection; 0	=No Detection)				1		

Trial Number	Trial Number			6			
Number of Bur	Number of Bursts in Trial			13			
Chirp Center F	requency			55	30		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Location Spacing (us) Spacing (us) Starting Location Within Interval (
1	2	88.1	10	1257	-	846	
2	1	58.7	10	-	-	725	
3	2	97.1	10	1037	-	30	
4	3	83.1	10	1029	1106	490	
5	1	62.1	10	-	-	262	
6	2	71.4	10	1058	-	283	
7	2	86.3	10	1867	-	49	
8	3	77.3	10	1418	1876	634	
9	1	78.9	10	-	-	304	
10	3	79.2	10	1055	1572	564	
11	3	52	10	1582	1836	852	
12	3	56.5	10	1195	1542	525	
13	3	100	10	1638	1729	750	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 93 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number	Trial Number			7			
Number of Bur	Bursts in Trial			1	4		
Chirp Center F	Chirp Center Frequency			55	30		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Chirp Width Pulse 1-to-2 Pulse 2-to-3			
1	2	92.7	11	1208	-	231	
2	2	81.3	11	1144	1	804	
3	2	60.4	11	1555	-	34	
4	2	62.1	11	1320	-	427	
5	1	50	11	-	ı	577	
6	3	65.9	11	1020	1365	3	
7	2	73.8	11	1308	ı	51	
8	2	74.3	11	1143	ı	360	
9	1	62.9	11	-	-	394	
10	2	74.8	11	1404	ı	317	
11	2	69.7	11	1309	ı	532	
12	2	69.8	11	1688	-	339	
13	2	77.4	11	1857	1	381	
14	1	55.1	11	-	1	426	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

Trial Number	Trial Number			8				
Number of Bui	rsts in Trial		15					
Chirp Center F	requency			55	30			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Chirp Width Pulse 1-to-2 Pulse 2-to-3				
1	1	91.7	12	-	-	776		
2	2	90	12	1196	-	187		
3	3	92.3	12	1486	1853	448		
4	2	66.8	12	1545	-	702		
5	1	64	12	-	-	403		
6	3	95.4	12	1123	1473	230		
7	3	66.8	12	1867	1401	604		
8	3	67.7	12	1472	1397	38		
9	1	68.2	12	-	-	735		
10	2	82.2	12	1297	-	610		
11	1	92.1	12	-	-	618		
12	2	57	12	1764	-	705		
13	2	58.5	12	1310	-	22		
14	3	85.5	12	1630	1447	641		
15	2	82.2	12 1371 - 109					
Detection Chec	k (1=Detection; 0	=No Detection)				1		

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 94 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			9					
Number of Bur	sts in Trial		16					
Chirp Center F	requency			55	30			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Start				
1	2	74.4	13	1707	-	442		
2	2	63.6	13	1725	-	280		
3	2	71.3	13	1704	-	459		
4	3	77.6	13	1063	1405	197		
5	3	65.2	13	1731	1294	101		
6	3	55.1	13	1109	1549	17		
7	2	96.8	13	1034	-	131		
8	3	80.8	13	1533	1051	365		
9	1	60.4	13	-	-	222		
10	2	61.8	13	1312	-	371		
11	2	71.3	13	1657	-	33		
12	2	98.1	13	1024	-	291		
13	1	57.9	13	-	-	188		
14	1	91.8	13	-	-	163		
15	2	56.7	13	1259	-	426		
16	2	89.7	13	1690	-	606		
Detection Check	k (1=Detection; 0	=No Detection)				1		

Trial Number	Trial Number			10			
Number of Bui	rsts in Trial		17				
Chirp Center F	requency			55	30		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	2	74.4	14	1107	-	462	
2	1	87.6	14	-	-	653	
3	2	61.7	14	1741	-	457	
4	2	57.5	14	1566	-	388	
5	2	66.1	14	1855	-	63	
6	3	70.1	14	1044	1012	136	
7	1	66.4	14	-	-	343	
8	1	59.2	14	-	-	349	
9	2	88.3	14	1240	-	362	
10	1	64.7	14	-	-	221	
11	2	73	14	1703	-	144	
12	2	81.7	14	1450	-	671	
13	3	70.1	14	1741	1278	320	
14	1	63.6	14	-	-	196	
15	1	58.7	14	-	-	413	
16	2	65.9	14	1478	-	170	
17	1	72.7	14	-	-	564	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 95 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			11				
Number of Bu	ırsts in Trial		18				
Chirp Center	Chirp Center Frequency			54	.98		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	72.1	15	1193	-	130	
2	3	76.3	15	1484	1390	114	
3	1	86.1	15	-	-	14	
4	1	73.2	15	-	-	604	
5	1	81.2	15	-	-	548	
6	2	99.5	15	1398	-	173	
7	1	93.9	15	-	-	262	
8	2	75.9	15	1921	-	38	
9	3	79.2	15	1100	1429	84	
10	3	77	15	1166	1799	610	
11	1	91.8	15	-	-	339	
12	3	56.8	15	1330	1556	580	
13	2	83.1	15	1556	-	295	
14	2	63	15	1552	-	156	
15	1	65.7	15	-	-	439	
16	1	64.5	15	-	-	188	
17	1	88.5	15	-	-	419	
18	1	60.6	15	-	-	205	
Detection Che	ck (1=Detection; C	=No Detection)				1	

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 96 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			12					
Number of B	ursts in Trial		19					
Chirp Center	Chirp Center Frequency			54	98			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)					
1	2	90.5	16	1299	_	Interval (ms) 381		
2	2	88.4	16	1418	-	327		
3	2	53.7	16	1055	-	536		
4	1	80.5	16	-	-	285		
5	1	50.4	16	-	-	398		
6	2	61.2	16	1749	-	439		
7	2	78.8	16	1065	-	129		
8	3	75	16	1748	1820	325		
9	2	96.7	16	1254	-	440		
10	3	76.3	16	1848	1106	397		
11	1	73.3	16	-	-	232		
12	2	92.4	16	1317	-	91		
13	2	92.4	16	1854	-	256		
14	3	64.4	16	1240	1634	582		
15	2	67.3	16	1473	-	117		
16	2	84.1	16	1795	-	202		
17	1	80.9	16	-	-	135		
18	1	74.6	16	-	-	396		
19	2	97.6	16	1805	-	615		
Detection Che	ck (1=Detection; 0	=No Detection)		·	·	1		

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 97 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			13				
Number of Bu	rsts in Trial			2	0		
Chirp Center F	requency			54	99		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	2	66.1	17	1417	-	388	
2	2	86.7	17	1693	-	348	
3	2	70.5	17	1263	-	215	
4	2	78	17	1446	-	28	
5	2	66	17	1185	-	585	
6	2	80.6	17	1855	-	65	
7	1	95.5	17	-	-	92	
8	1	98.8	17	-	-	68	
9	3	64.3	17	1641	1108	517	
10	1	75.1	17	-	-	121	
11	2	72.6	17	1499	-	448	
12	1	60.3	17	-	-	567	
13	2	54.9	17	1056	-	245	
14	2	98.8	17	1023	-	584	
15	2	60.9	17	1243	-	579	
16	2	62.7	17	1226	-	464	
17	1	80.1	17	-	-	89	
18	2	70.9	17	1711	-	153	
19	1	90.7	17	-	-	282	
20	1	98.9	17	-	-	71	
Detection Chec	ck (1=Detection; 0	=No Detection)				1	

Trial Number	Trial Number			14				
Number of Bursts in Trial				3	3			
Chirp Center F	requency			55	00			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)				
1	2	67.5	20	1542	-	947		
2	3	83.6	20	1272	1696	124		
3	2	93.2	20	1877	-	701		
4	1	55.6	20	-	-	1123		
5	3	84.2	20	1733	1619	756		
6	3	69.1	20	1612	1071	1		
7	2	66.9	20	1905	-	7		
8	3	86.8	20 1697 1621 1082					
Detection Chec	k (1=Detection; C	=No Detection)		•		1		

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 98 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			15					
Number of Bursts in Trial				9	9			
Chirp Center F	Chirp Center Frequency			55	00			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)		
1	2	62.2	19	1571	-	949		
2	2	85	19	1669	-	189		
3	2	64.5	19	1505	-	176		
4	2	50.4	19	1325	-	538		
5	2	66.1	19	1483	-	908		
6	2	71.2	19	1110	-	1017		
7	3	53.7	19	1445	1677	492		
8	3	62.5	19	1596	1341	349		
9	3	62	19 1929 1221 1105					
Detection Chec	k (1=Detection; 0	=No Detection)				1		

Trial Number			16 10			
Number of Bu	rsts in Trial					
Chirp Center Frequency				54	99	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)
1	2	80.5	18	1910	-	284
2	2	64.2	18	1661	-	751
3	2	90.1	18	1041	ı	491
4	2	69.8	18	1495	-	107
5	1	73.1	18	-	-	490
6	3	77.2	18	1418	1145	1155
7	3	52.6	18	1732	1787	772
8	2	71.4	18	1562	-	121
9	2	89.8	18	1491	-	89
10	2	76.4	18	1355	-	615
Detection Che	ck (1=Detection; C	=No Detection)				1

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 99 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			17			
Number of Bur	sts in Trial		11			
Chirp Center Frequency				54	99	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Location Spacing (us) Spacing (us) Within Interval (r			
1	2	51.2	17	1236	-	740
2	1	71.7	17	-	-	941
3	2	74.7	17	1164	-	370
4	2	50.9	17	1919	-	371
5	2	65.2	17	1206	-	1033
6	2	98	17	1182	-	346
7	2	58.7	17	1612	-	639
8	1	63.8	17	-	-	1056
9	3	86.3	17	1545	1065	205
10	1	94.4	17	-	-	753
11	3	88.5	17	1699	1319	58
Detection Chec	k (1=Detection; C	=No Detection)				1

Trial Number			18			
Number of Bu	rsts in Trial		12			
Chirp Center F	Chirp Center Frequency			54	98	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width Pulse 1-to-2 Pulse 2-to-3 Loca (MHz) Spacing (us) Spacing (us) With			
						Interval (ms)
1	2	88.7	16	1405	-	448
2	3	90.2	16	1544	1235	621
3	1	96.5	16	-	-	512
4	2	80.5	16	1090	-	321
5	2	63.7	16	1268	-	798
6	1	53.4	16	-	-	809
7	2	52.3	16	1043	-	301
8	3	54.7	16	1701	1104	796
9	3	75.6	16	1923	1729	669
10	2	59.2	16	1244	-	369
11	1	56.3	16	-	-	51
12	2	87.8	16	1608	-	733
Detection Chec	ck (1=Detection; C	=No Detection)	•	•		1

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 100 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			19				
Number of Bui	rsts in Trial		13				
Chirp Center Frequency				54	98		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Starting Location Within Interval (ms)			
1	2	68.2	15	1104	-	229	
2	2	58.4	15	1627	-	488	
3	3	74.7	15	1861	1015	137	
4	2	58.2	15	1593	-	520	
5	1	51.6	15	-	-	799	
6	2	94.7	15	1469	-	43	
7	2	70.7	15	1091	-	126	
8	2	82.9	15	1472	-	607	
9	3	62.7	15	1168	1453	527	
10	2	63.1	15	1529	-	143	
11	1	96.1	15	-	-	176	
12	2	57	15	1457	-	882	
13	3	95.6	15	1707	1501	214	
Detection Chec	k (1=Detection; 0	=No Detection)				1	

Trial Number			20			
Number of Bur	sts in Trial		14			
Chirp Center Frequency				54	98	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)
1	1	95.7	14	-	-	117
2	1	93.1	14	-	-	720
3	1	55.8	14	-	-	297
4	1	76.7	14	-	-	284
5	2	68	14	1686	-	472
6	3	94.1	14	1796	1393	264
7	2	53.9	14	1293	-	525
8	1	99.3	14	-	-	155
9	2	73.3	14	1458	-	65
10	2	93.3	14	1196	-	451
11	3	55.8	14	1895	1034	243
12	1	66.4	14	-	-	228
13	2	65.6	14	1732	-	746
14	2	76.5	14	1187	-	522
Detection Chec	k (1=Detection; 0	=No Detection)				1

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 101 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			21				
Number of Bu	rsts in Trial		15				
Chirp Center Frequency				55	63		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	1	85.1	13	-	-	565	
2	2	72.5	13	1648	1	211	
3	1	67.5	13	-	-	348	
4	2	56.1	13	1360	-	156	
5	1	71.1	13	-	-	718	
6	2	93.1	13	1391	-	400	
7	1	56.5	13	-	ı	482	
8	1	63.8	13	-	ı	703	
9	2	67.4	13	1727	ı	780	
10	1	52.3	13	-	ı	102	
11	3	62.4	13	1228	1715	304	
12	2	53.3	13	1630	ı	57	
13	2	83.1	13	1205	1	768	
14	2	93.7	13	1085	1	461	
15	2	90.7	13	1297	1	746	
Detection Chec	ck (1=Detection; 0	=No Detection)				1	

Trial Number			22				
Number of Bu	rsts in Trial		16				
Chirp Center Frequency				55	63		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)		Starting Location Within Interval (ms)	
1	2	98.8	12	1439	-	95	
2	1	54.5	12	-	-	676	
3	2	80.5	12	1360	-	8	
4	2	55.9	12	1906	-	373	
5	2	72.1	12	1623	-	254	
6	2	84.4	12	1604	-	480	
7	1	78.5	12	-	-	663	
8	1	88	12	-	-	314	
9	2	74.7	12	1157	-	596	
10	2	97.1	12	1673	-	264	
11	1	81.6	12	-	-	740	
12	1	83.6	12	-	-	163	
13	3	87.6	12	1757	1322	628	
14	2	58.5	12	1372	-	132	
15	3	91.8	12	1767	1183	106	
16	2	58.8	12	1432	-	659	
Detection Chec	k (1=Detection; C	=No Detection)				1	

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 102 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			23				
Number of Bu	rsts in Trial		17				
Chirp Center I	Frequency			55	64		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Spacing (us)			
1	1	96	11	-	-	284	
2	2	92.5	11	1241	-	488	
3	2	89.5	11	1347	-	76	
4	2	74.8	11	1607	-	688	
5	2	60.6	11	1523	-	28	
6	2	71.5	11	1659	-	383	
7	2	71.1	11	1454	-	182	
8	1	98.7	11	-	-	20	
9	2	85.1	11	1770	-	576	
10	2	89.2	11	1086	-	410	
11	2	60.7	11	1101	-	458	
12	2	75.2	11	1719	-	348	
13	2	75.7	11	1799	-	481	
14	3	56.7	11	1132	1884	587	
15	2	65	11	1885	-	480	
16	2	64.6	11	1910	-	195	
17	3	69.9	11	1410	1190	396	
Detection Chec	ck (1=Detection; 0	=No Detection)				1	

Trial Number			24				
Number of Bur	sts in Trial		18				
Chirp Center F	requency			55	64		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)				
1	3	83.8	10	1290	1021	536	
2	2	66.9	10	1112	-	44	
3	3	91	10	1220	1504	611	
4	2	86.1	10	1678	-	456	
5	3	65.5	10	1928	1222	330	
6	1	62.6	10	-	-	297	
7	3	68.7	10	1505	1200	351	
8	3	59.2	10	1452	1114	230	
9	1	73.9	10	-	-	222	
10	1	77.2	10	-	-	57	
11	2	96.4	10	1357	-	399	
12	2	99.9	10	1173	-	299	
13	2	99.9	10	1520	-	464	
14	1	86.7	10	-	-	294	
15	1	92.6	10	-	-	653	
16	1	77.1	10	-	-	550	
17	2	81.1	10	1664	-	566	
18	3	68.4	10	1536	1309	580	
Detection Chec	k (1=Detection; 0	=No Detection)		0			

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 103 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number				2	5	
Number of Bu	ursts in Trial		19			
Chirp Center	Frequency			55	64	
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Spacing (us) Star Local Spacing (us) With Interval Interval Chirp Width			
1	3	68.2	9	1723	1868	471
2	3	83.7	9	1711	1405	368
3	2	69.7	9	1781	-	425
4	1	59.7	9	-	-	440
5	2	96.7	9	1484	-	123
6	2	95.8	9	1319	-	261
7	3	71.3	9	1095	1354	332
8	3	53.2	9	1527	1427	427
9	2	69.5	9	1771	-	397
10	3	63.9	9	1075	1447	67
11	2	93.4	9	1783	-	174
12	2	77.3	9	1564	-	17
13	2	73.1	9	1294	-	216
14	1	77.4	9	-	-	292
15	3	57.2	9	1722	1886	619
16	2	68.7	9	1629	-	233
17	1	60.8	9	-	-	226
18	3	69.7	9	1128	1224	599
19	1	62.2	9	-	-	433
Detection Che	ck (1=Detection; 0	=No Detection)				1

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 104 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number				2	6		
Number of Bu	rsts in Trial		20				
Chirp Center I	Frequency			55	65		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz)				
1	1	80.5	8	-	-	90	
2	3	62.6	8	1406	1343	319	
3	3	85.6	8	1190	1529	384	
4	2	83.9	8	1208	-	567	
5	2	92.4	8	1488	-	234	
6	2	54	8	1529	-	535	
7	3	81.3	8	1501	1812	325	
8	1	98.5	8	-	-	532	
9	1	85.8	8	-	-	272	
10	2	84.7	8	1593	-	182	
11	2	83.3	8	1705	-	134	
12	2	79.8	8	1567	-	286	
13	1	77.9	8	-	-	368	
14	3	98.4	8	1510	1569	290	
15	2	79.9	8	1588	-	231	
16	3	78	8	1140	1353	353	
17	3	55.2	8	1700	1327	53	
18	3	71.9	8	1081	1224	44	
19	1	62	8	-	-	298	
20	3	70.5	8	1888	1442	529	
Detection Ched	ck (1=Detection; 0	=No Detection)				1	

Trial Number			27				
Number of Bur	Number of Bursts in Trial			8			
Chirp Center F	requency			55	61		
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Spacing (us) Pulse 2-to-3 Spacing (us)			Starting Location Within	
1	2	69.1	18	1076	_	Interval (ms) 1436	
2	2	62.1	18	1688	-	22	
3	2	94.8	18	1891	-	897	
4	1	75.8	18	-	-	1186	
5	2	65.4	18	1713	-	589	
6	2	97.7	18	1292	-	614	
7	3	98.1	18 1670 1711 500				
8	2	85.4	18 1672 - 776				
Detection Chec	k (1=Detection; C	=No Detection)				1	

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930

 Page No.
 : 105 of 111

 Report Version
 : Rev. 01

 Issued Date
 : Mar. 09, 2018



Trial Number			28				
Number of Bu	ursts in Trial			()		
Chirp Center	Frequency			55	60		
Burst No. of Pulses Pulse Width (us)			Chirp Width (MHz)	Pulse 1-to-2 Spacing (us)	Pulse 2-to-3 Spacing (us)	Starting Location Within Interval (ms)	
1	3	82	19	1233	1713	679	
2	3	87.7	19	1554	1123	473	
3	2	98.9	19	1518	-	869	
4	1	55	19	-	-	719	
5	1	93.6	19	-	-	902	
6	2	58.7	19	1641	-	1243	
7	2	88.7	19	1387	-	410	
8	1	60.3	19 - 1				
9	1	97.7	19 - 512				
Detection Che	ck (1=Detection; 0	=No Detection)				0	

Trial Number	Trial Number			29				
Number of Bursts in Trial			10					
Chirp Center F	requency			55	60			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Spacing (us)			Starting Location Within Interval (ms)		
1	1	69.6	20	-	-	1131		
2	1	74.5	20	-	-	290		
3	1	60.9	20	-	ı	895		
4	1	74.6	20	-	-	202		
5	2	99.3	20	1501	-	139		
6	2	95.3	20	1065	-	854		
7	2	91.9	20	1722	-	219		
8	2	51	20	1285	-	57		
9	2	87.7	20	1747	-	141		
10	1	87.2	20	-	-	596		
Detection Chec	k (1=Detection; C	=No Detection)				1		

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 106 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Trial Number			30					
Number of B	Number of Bursts in Trial			11				
Chirp Center	Frequency			55	66			
Burst	No. of Pulses	Pulse Width (us)	Chirp Width (MHz) Pulse 1-to-2 Pulse 2-to-3 Spacing (us) Spacing (us)			Starting Location Within Interval (ms)		
1	3	59.9	5	1901	1196	935		
2	2	77.1	5	1590	-	1038		
3	2	62.7	5	1227	-	690		
4	1	77.1	5	-	-	547		
5	3	99.8	5	1798	1790	551		
6	2	61.5	5	1135	-	876		
7	2	77.5	5	1583	-	448		
8	2	57.3	5	1890	-	736		
9	2	53.5	5	1757	-	362		
10	1	66.6	5	-	-	836		
11	3	80.7	5	1811	1289	410		
Detection Che	eck (1=Detection; 0	=No Detection)				1		

SPORTON INTERNATIONAL INC. TEL: 886-3-327-3456

FAX: 886-3-327-0973 FCC ID: Z3WAIR4930

 Page No.
 : 107 of 111

 Report Version
 : Rev. 01

 Issued Date
 : Mar. 09, 2018



Type 6 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulses / Hop	Pulse Width (us)	PRI (us)	1=Detection 0=No Detection
1	5530	9	1	333	1
2	5530	9	1	333	1
3	5530	9	1	333	1
4	5530	9	1	333	1
5	5530	9	1	333	1
6	5530	9	1	333	1
7	5530	9	1	333	1
8	5530	9	1	333	1
9	5530	9	1	333	1
10	5530	9	1	333	1
11	5530	9	1	333	1
12	5530	9	1	333	1
13	5530	9	1	333	1
14	5530	9	1	333	1
15	5530	9	1	333	1
16	5530	9	1	333	1
17	5530	9	1	333	1
18	5530	9	1	333	1
19	5530	9	1	333	1
20	5530	9	1	333	1
21	5530	9	1	333	1
22	5530	9	1	333	1
23	5530	9	1	333	1
24	5530	9	1	333	1
25	5530	9	1	333	1
26	5530	9	1	333	1
27	5530	9	1	333	1
28	5530	9	1	333	1
29	5530	9	1	333	1
30	5530	9	1	333	1
	D	etection Percenta	age (%)		100.00
Limit					70%
Test Resi	ult				Complied

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 108 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



For Mesh Mode:

Modulation Mode: 802.11ac (VHT80)

Type 1 Radar Statistical Performance

Trial #	Test Freq. (MHz)	Pulse Repetition Frequency Number (Pulse Per Second) 1 1930.5		PRI (us)	1=Detection 0=No Detection
1	5527	1	1930.5	518	1
2	5507	23	326.2	3066	1
3	5517	19	19 1139.0		1
4	5503	12	1355.0	738	1
5	5495	4	1730.1	578	1
6	5515	8	1519.8	658	1
7	5524	15	1253.1	798	1
8	5545	6	1618.1	618	1
9	5548	14	1285.3	778	1
10	5537	3	1792.1	558	1
11	5559	13	1319.3	758	1
12	5513	9	1474.9	678	1
13	5514	7	1567.4	638	1
14	5511	17	1193.3	838	1
15	5498	10	1432.7	698	1
16	5512	-	1692.0	591	1
17	5515	-	328.1	3048	0
18	5512	-	373.4	2678	1
19	5492	-	574.4	1741	1
20	5506	-	1216.5	822	1
21	5568	-	801.3	1248	0
22	5547	-	488.5	2047	1
23	5499	-	956.0	1046	1
24	5512	-	517.6	1932	1
25	5531	-	1422.5	703	1
26	5515	-	542.0	1845	1
27	5550	-	741.3	1349	1
28	5534	-	881.8	1134	1
29	5498	-	427.4	2340	1
30	5496	-	628.9	1590	1
		etection Percentage ((%)		93.333
Limit		<u> </u>			60%
Test Res	ult				Complied

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 109 of 111
Report Version : Rev. 01
Issued Date : Mar. 09, 2018



Test Equipment and Calibration Data 4

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101026	9kHz~40GHz	Sep. 19, 2017	Sep. 18, 2018	Radiated (DF01-CB)
Vector Signal generator	R&S	SMU200A	102782	25MHz-6GHz	Dec. 16, 2016	Dec. 15, 2017	Radiated (DF01-CB)
Horn Antenna	COM-POWER	AH-118	071187	1GHz – 18GHz	Jul. 06, 2017	Jul. 05, 2018	Radiated (DF01-CB)
Horn Antenna	COM-POWER	AH-118	071042	1GHz – 18GHz	Dec. 05, 2016	Dec. 04, 2017	Radiated (DF01-CB)
RF Power Divider	ANAREN	2 Way	DFS-01-DV-02	1GHz ~ 6GHz	Oct. 11, 2017	Oct. 10, 2018	Radiated (DF01-CB)
RF Power Divider	MTJ	2 Way	DFS-01-DV-03	1GHz ~ 6GHz	Oct. 11, 2017	Oct. 10, 2018	Radiated (DF01-CB)
RF Power Divider	ANAREN	4 Way	DFS-01-DV-01	1GHz ~ 6GHz	Oct. 11, 2017	Oct. 10, 2018	Radiated (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-57	1 GHz –18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiated (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-58	1 GHz –18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiated (DF01-CB)

Note: Calibration Interval of instruments listed above is one year.

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: Z3WAIR4930 Page No. : 110 of 111 Report Version : Rev. 01 : Mar. 09, 2018

Report No.: FZ792934-01

Issued Date



5 Measurement Uncertainty

Test Items	Uncertainty	Remark
Radiated Emission	2.9 dB	Confidence levels of 95%

 SPORTON INTERNATIONAL INC.
 Page N

 TEL: 886-3-327-3456
 Report

 FAX: 886-3-327-0973
 Issued

FCC ID: Z3WAIR4930

 Page No.
 : 111 of 111

 Report Version
 : Rev. 01

 Issued Date
 : Mar. 09, 2018