

# Dynamic Frequency Selection (DFS) Test Report

Product Name	Full HD Video Wireless Receiver Module
Model No	ZRF-32100
FCC ID	YG7ZRF32100
End Product	Full HD Video Wireless Receiver

Applicant	ZINWELL CORPORATION
Address	7F 512, Yuan Shan Road, Chung Ho City, 235, Taipei Hsien, Taiwan

Date of Receipt	May. 10, 2010
Issued Date	Aug. 24, 2010
Report No.	106229R-RFUSP08V01
Report Version	V1.0

The test results relate only to the samples tested.

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Applicant	ZINWELL CORPORATION	
Address	7F 512, Yuan Shan Road, Chung Ho City, 235, Taipei Hsien, Taiwan	
Manufacturer	ZINWELL CORPORATION	
Model No.	ZRF-32100	
FCC ID.	YG7ZRF32100	
EUT Rated Voltage	AC 100-240V, 50-60Hz	
EUT Test Voltage	AC 120V/60Hz	
Trade Name	ZINWELL®	
Applicable Standard	FCC CFR Title 47 Part 15 Subpart E 15.407 (h): 2009	
	FCC 06-96	
	RSS-210 Issue 7 A9.4	
Test Result	Complied	

The Test Results relate only to the samples tested.

Approved By

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Attachment 1: EUT Test Photographs



#### 1. GENERAL INFORMATION

# 1.1. **Standard Requirement**

#### FCC Part 15.407:

U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30dBm. A TPC mechanism is not required for systems with an E.I.R.P. of less than 500mW.

U-NII devices operating in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems.



# 1.2. EUT Description

Product Name	Full HD Video Wireless Receiver Module	
Trade Name	ZINWELL*	
FCC ID.	YG7ZRF32100	
Model No.	ZRF-32100	
Frequency Range	5270-5310MHz, 5510-5670MHz	
Number of Channels	5CH	
Channel Control	Auto	
Type of Modulation	OFDM (BPSK, QPSK, 16QAM, 64QAM)	
Channel Bandwidth	40MHz	
DFS Function	■ Master □ Slave	
TPC Function	■ $<500$ mW not required $\square \ge 500$ mW employ a TPC	
Communication Mode	☐ IP Based Systems ☐ Frame Based System ■ *Other System	
Antenna type	Internal: PIFA; External: PIFA, Dipole	
Antenna Gain	Refer to the table "Antenna List"	
Power Adapter	MFR: SINO-American, M/N: SA115B-05-A	
	Input: AC 100-240V,50-60Hz,0.4A	
	Output: DC 5V,3A	
	Cable out: Non-Shielded, 1.8m, with one ferrite core bonded.	

#### **Antenna List**

No.	Manufacturer	Part No.	Peak Gain (dBi)
Internal	ZINWELL	N/A	3.47dBi for 5.15~5.725GHz
External		9D10009E2002 9D10009E3002	6.11dBi for 5.15~5.725GHz

NOTE: External Antenna only uses in receive mode.

All testing are use external antenna.

<sup>\*</sup>Note: The EUT is a Full HD Video Wireless Receiver Module with a built-in 5GHz transceiver module.



Center Working Frequency of Each Channel:

Channel Frequency Channel Frequency Channel Frequency Channel Frequency Channel O1: 5270 MHz Channel O2: 5310 MHz Channel O3: 5510 MHz Channel O4: 5550 MHz

Channel 05: 5670 MHz

Test Mode Mode 1: Transmit

#### The Host information:

Product Name: Full HD Video Wireless Receiver

Model number: ZWD-2222R, ZWD-2322R, ZWD-2422R, ZWD-2522R, ZWD-2622R,

ZWD-2722R, ZWD-2822R, ZWD-1222R, BV-2222R, BV-2322R,

BV-2422R, BV-2522R, BV-2622R, BV-2722R, BV-2822R,

BV-1222R

Trade name: ZINVELL® brite-View

#### Note:

After confirming via the radar signal of type one for the two covers of the device, the result of threshold for both of them will not make any difference.



## 1.3. UNII Device Description

- (1) The EUT operates in the following DFS band:
  - 1. 5250-5350 MHz
  - 2. 5470-5725 MHz
- (2) The maximum EIRP of the 5GHz equipment is 18.96dBm

  Below are the available 50 ohm antenna assemblies and their corresponding gains. 0dBi gain was used to set the -63 dBm threshold level (-64dBm +1 dB) during calibration of the test setup.

No.	Manufacturer	Part No.	Peak Gain (dBi)
Internal	ZINWELL	N/A	3.47dBi for 5.15~5.725GHz
External	ZINWELL	9D10009E2002	6.11dBi for 5.15~5.725GHz
		9D10009E3002	

- (3) DFS operation description:
  - 1. At first, the EUT will detect whether there is any radar signal.
  - 2. If there is no radar signal, the EUT will notify "Full HD Video Transmitter (Slave)" to transmit the video signal.
  - 3. If the EUT confronts the interference of radar signal during the period of transmitting the video signal, "Full HD video receiver (Master)" will notify "Full HD Video transmitter (slave)" to stop transmitting the video signal.
- (4) For the 5250-5350 MHz and 5470-5725 MHz bands, the Master device provides, on aggregate, uniform loading of the spectrum across all devices by selecting an operating channel among the available channels using a random algorithm.
  - (5) This device does not exceed 27dBm eirp, so no transmit power control is implemented.
- (6) The client device is a Full HD Video Wireless transmitter. The Full HD Video Wireless transmitter FCC ID: YG7ZRF31100.



# 1.4. Test Equipment

Dynamic Frequency Selection (DFS)

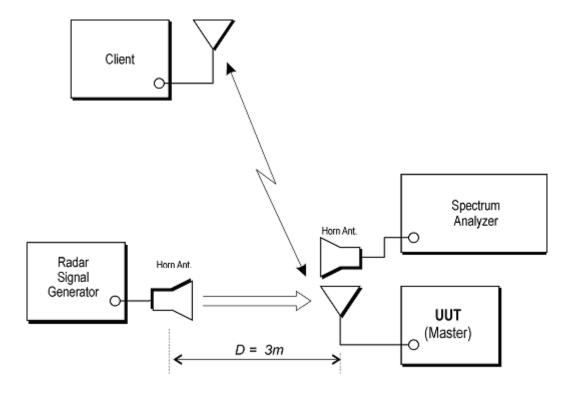
Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	E4440A	MY46185846	Oct, 21, 2010
Vector Signal Generator	Agilent	E4438C	MY49070137	Apr, 01, 2010

Instrument	Manufacturer	Type No.	Serial No
Notebook Pc	Нр	HSTNN-155C	CNU8476RVZ
Notebook Pc	Compaq	CPQ511VT5870Q4X320MIBNC N2Pa	CNU0060M23
Notebook Pc	Dell	PPO4X	30403692208
DVD Player	YAWAHA	DVD-S1700	Z067697Y0
Horn Antenna	ETS	3115	6348
Horn Antenna	ETS	3115	0005-6160
RF Cable	SUHNER	SUCOFLEX 104	309180/4
RF Cable	SUHNER	SUCOFLEX 106	3474516
LCD Monitor	LG	W2261VT	907YHCA07299
Full HD Video Wireless		ZDE 01100	DT/A
Transmitter Module (Client)	ZINWELL	ZRF-31100	N/A
Full HD Video Wireless		ZDE 20100	NT/A
Receiver Module (Master)	ZINWELL	ZRF-32100	N/A

Software	Manufacturer	Function
Agilent Signal Studio for Pulse Building V1.3.13.0	Agilent	Radar Signal Generation Software
Agilent DFS_TEST V1.0.0.73	Agilent	Radar Signal Generation Software



#### 1.5. Test Setup



#### 1.6. DFS Detection Thresholds

# (1) Interference Threshold value, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (see note)
≥200 milliwatt	-64 dBm
< 200 milliwatt	-62 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.



#### (2) DFS Response requirement values

Parameter	Value					
Non-Occupancy Period	30 Minutes					
Channel Availability Check Time	60 Seconds					
Channel Move Time	10 Seconds					
	200 milliseconds + approx. 60 milliseconds					
Channel Closing Transmission Time	over remaining 10 seconds period					
	(See Notes 1 and 2)					
II All Detection Bondwidth	Minimum 80% of the 99% power bandwidth					
U-NII Detection Bandwidth	See Note 3.					

#### Note1:

The instant that the Channel Move Time and the Channel Closing Transmission Time begins is as follows:

- For the short pulse radar test signals this instant is the end of the burst.
- For the frequency hopping radar test signal, this instant is the end of the last radar burst generated
- For the long pulse radar test signal this instant is the end of the 12 seconds period defining the radar transmission.

#### 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 facilitating channel changes (an aggregate of approximately 60 milliseconds) during the remainder of the 10 seconds 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 1 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

#### 1.7. Radar Test Waveforms

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

#### (1) Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (usec)	PRI (usec)	Pulses	Minimum Percentage of Successful Detection	Minimum Trials
1	1	1428	18	60%	30
2	1-5	150-230	23-29	60%	30

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3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (ra	dar types 1-4)			80%	120

A minimum of 30 unique waveforms is required for each of the short pulse radar type 2 through 4. For short pulse radar type 1, then same waveform is used a minimum of 30 times. If more than 30 waveforms are used for short pulse radar type 2 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 type 1-4.

#### (2) Long Pulse Radar Test Signal

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

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the long pulse radar test signal. If more than 30 waveforms are used for the long pulse radar test signal, then each additional waveform must also be unique and not repeated from the previous waveforms.



Each waveform is defined as follows:

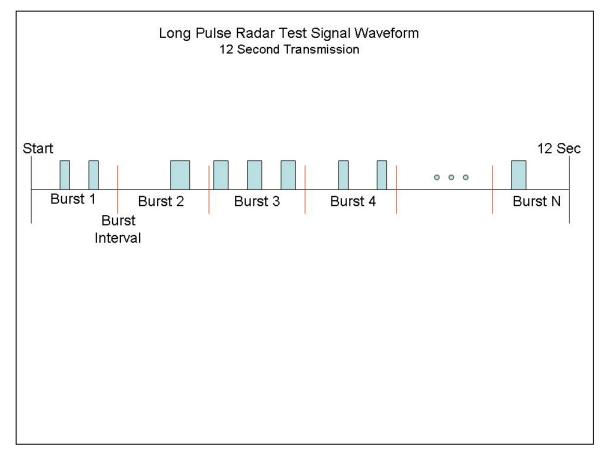
- 1) The transmission period for the Long Pulse Radar test signal is 12 seconds.
- 2) There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst Count.
- 3) Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.
- 4) The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.
- 5) Each pulse has a linear FM chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a Burst will have the same chirp width. Pulses in different Bursts may have different chirp widths. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.
- 6) If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the time between the first and second pulses is chosen independently of the time between the second and third pulses.
- 7) The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst Count. Each interval is of length (12,000,000 / 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.

#### A representative example of a Long Pulse radar test waveform:

- 1) The total test signal length is 12 seconds.
- 2) 8 Bursts are randomly generated for the Burst Count.
- 3) Burst 1 has 2 randomly generated pulses.
- 4) The pulse width (for both pulses) is randomly selected to be 75 microseconds.
- 5) The PRI is randomly selected to be at 1213 microseconds.
- 6) Bursts 2 through 8 are generated using steps 3 5.
- 7) Each Burst is contained in even intervals of 1,500,000 microseconds. The starting location for Pulse 1, Burst 1 is randomly generated (1 to 1,500,000 minus the total Burst 1 length + 1 random PRI interval) at the 325,001 microsecond step. Bursts 2 through 8 randomly fall in successive 1,500,000 microsecond intervals (i.e. Burst 2 falls in the 1,500,001 3,000,000 microsecond range).



#### Graphical Representation of a Long Pulse radar Test Waveform



#### (3) Frequency Hopping Radar Test Signal

o) Hequency Hopping Rudul Test Signal											
Radar	Pulse	PRI	Hopping	Pulses	Hopping	Minimum	Minimum				
Waveform	Width	(µsec)	Sequence	Per Hop	Rate	Percentage	Trials				
	(µsec)		Length		(kHz)	of					
			(msec)			Successful					
						Detection					
6	1	333	300	9	0.333	70%	30				

For the Frequency Hopping Radar Type, the same *Burst* parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected<sub>1</sub> from the hopping sequence defined by the following algorithm:

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

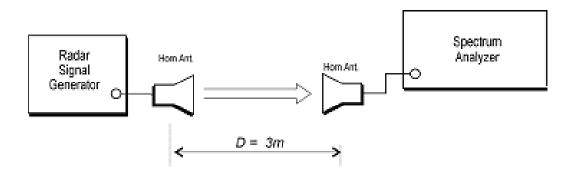


#### 1.8. Radar Waveform Calibration

The following equipment setup was used to calibrate the conducted radar waveform. A spectrum analyzer was used to establish the test signal level for each radar type. During this process there were replace 50ohm terminal from master and client device and no transmissions by either the master or client device. The spectrum analyzer was switched to the zero span (time domain) at the frequency of the radar waveform generator. Peak detection was utilized. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3MHz and 3 MHz.

The signal generator amplitude was set so that the power level measured at the spectrum analyzer was -61dBm due to the interference threshold level is not required.

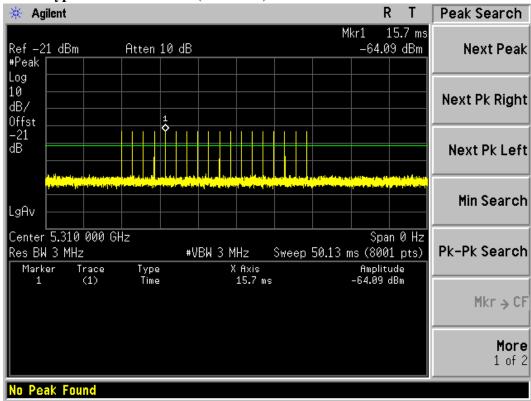
#### **Conducted Calibration Setup**



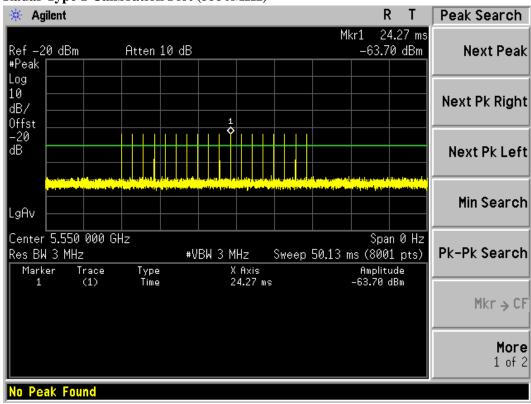


#### 1.9. Radar Waveform Calibration Result

#### **Radar Type 1 Calibration Plot (5310MHz)**

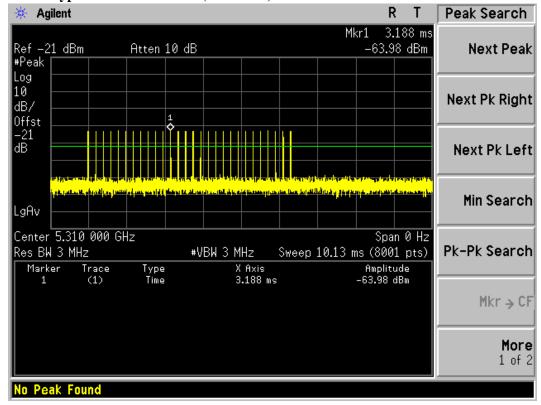


#### Radar Type 1 Calibration Plot (5550MHz)

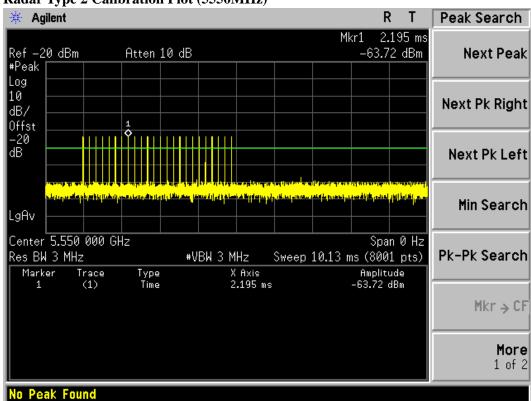




#### **Radar Type 2 Calibration Plot (5310MHz)**

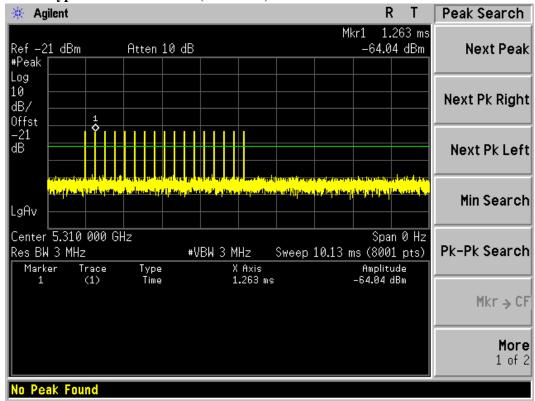


#### Radar Type 2 Calibration Plot (5550MHz)

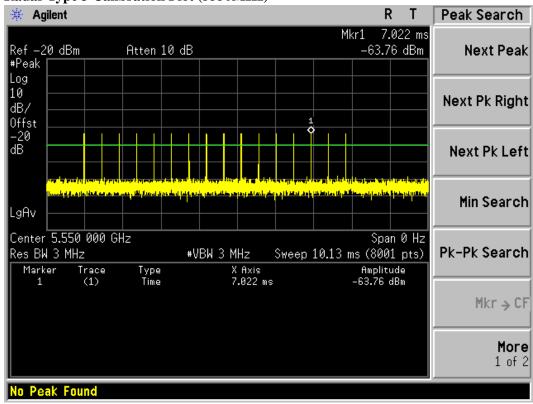




# Radar Type 3 Calibration Plot (5310MHz)

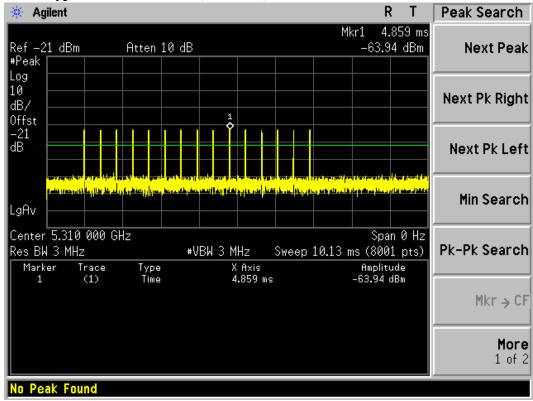


#### Radar Type 3 Calibration Plot (5550MHz)

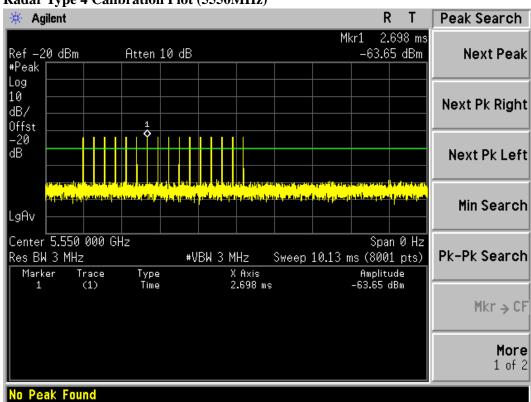




#### **Radar Type 4 Calibration Plot (5310MHz)**

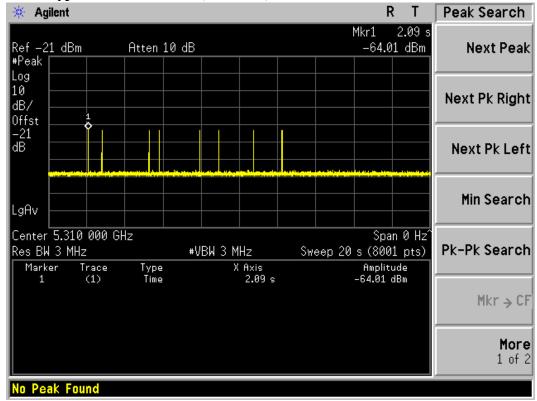


#### **Radar Type 4 Calibration Plot (5550MHz)**

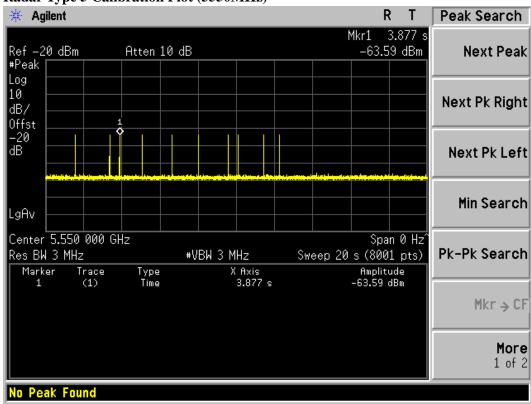




#### **Radar Type 5 Calibration Plot (5310MHz)**

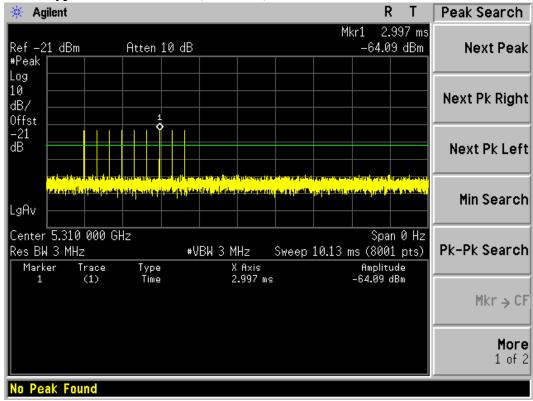


#### **Radar Type 5 Calibration Plot (5550MHz)**

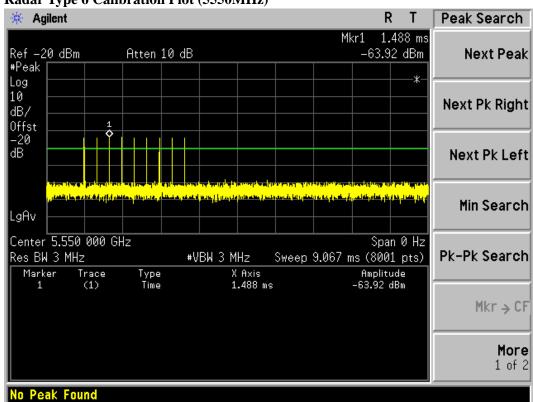




#### **Radar Type 6 Calibration Plot (5310MHz)**



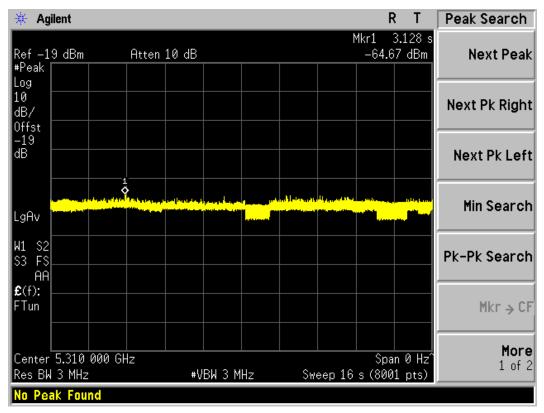
#### **Radar Type 6 Calibration Plot (5550MHz)**



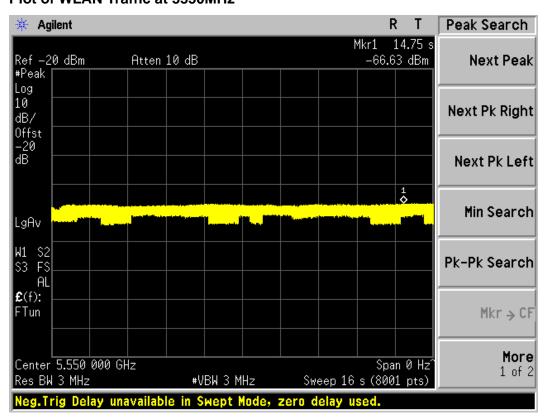


#### 1.10. Master Data Traffic Plot Result

#### Plot of WLAN Traffic at 5310MHz



#### Plot of WLAN Traffic at 5550MHz





#### 2. UNII Detection Bandwidth

#### 2.1. Test Procedure

The generating equipment is configured as shown in the Conducted Test Setup above. A single *Burst* of the short pulse radar type 1 is produced at 5550MHz at a -63dBm level. The EUT is set up as a standalone device (no associated Client and no traffic).

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

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

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 FI.

The U-NII Detection Bandwidth is calculated as follows:

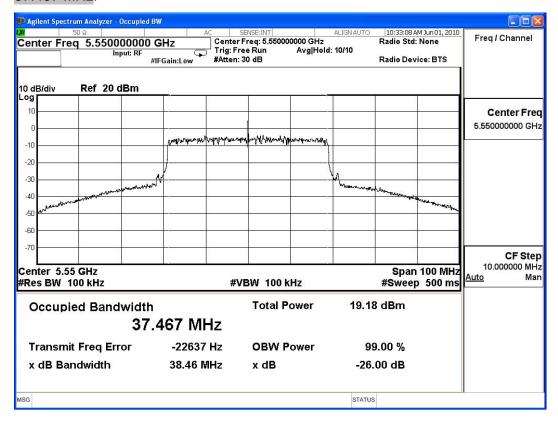
U-NII Detection Bandwidth = F<sub>H</sub> - F<sub>L</sub>

The U-NII Detection Bandwidth must be at least 80% of the EUT transmitter 99% power, otherwise, the EUT does not comply with DFS requirements.



#### 2.2. Test Requirement

All UNII 40 MHz channels for this device also have identical Channel bandwidths. Therefore, all DFS testing was done at 5550 MHz. the 99% channel bandwidth for a 40MHz signals is 37.467 MHz.



# 2.3. Uncertainty

 $\pm$  1ms.



# 2.4. Test Result of UNII Detection Bandwidth

Product : Full HD Video Wireless Receiver Module

Test Item : UNII Detection Bandwidth

Radar Type : Type 1

Test Mode : Mode 1: Transmit

Test Frequ	Test Frequency: 5310MHz											
Radar Fred	quency	DFS	Dete	ection	Trials	s (1= l	Detec	tion, (	)= No	Detec	ction)	<b>Detection Rate</b>
(MHz	<u>:</u> )	1	2	3	4	5	6	7	8	9	10	(%)
5290		0	0	0	0	0	0	0	0	0	0	0
5291	(FI)	1	1	1	1	1	1	1	1	1	1	100
5292		1	1	1	1	1	1	1	1	1	1	100
5293		1	1	1	1	1	1	1	1	1	1	100
5294		1	1	1	1	1	1	1	1	1	1	100
5295		1	1	1	1	1	1	1	1	1	1	100
5296		1	1	1	1	1	1	1	1	1	1	100
5297		1	1	1	1	1	1	1	1	1	1	100
5298		1	1	1	1	1	1	1	1	1	1	100
5299		1	1	1	1	1	1	1	1	1	1	100
5300		1	1	1	1	1	1	1	1	1	1	100
5301		1	1	1	1	1	1	1	1	1	1	100
5302		1	1	1	1	1	1	1	1	1	1	100
5303		1	1	1	1	1	1	1	1	1	1	100
5304		1	1	1	1	1	1	1	1	1	1	100
5305		1	1	1	1	1	1	1	1	1	1	100
5306		1	1	1	1	1	1	1	1	1	1	100
5307		1	1	1	1	1	1	1	1	1	1	100
5308		1	1	1	1	1	1	1	1	1	1	100
5309		1	1	1	1	1	1	1	1	1	1	100
5310		1	1	1	1	1	1	1	1	1	1	100
5311		1	1	1	1	1	1	1	1	1	1	100
5312		1	1	1	1	1	1	1	1	1	1	100
5313		1	1	1	1	1	1	1	1	1	1	100
5314		1	1	1	1	1	1	1	1	1	1	100
5315		1	1	1	1	1	1	1	1	1	1	100
5316		1	1	1	1	1	1	1	1	1	1	100

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5317		1	1	1	1	1	1	1	1	1	1	100
5318		1	1	1	1	1	1	1	1	1	1	100
5319		1	1	1	1	1	1	1	1	1	1	100
5320		1	1	1	1	1	1	1	1	1	1	100
5321		1	1	1	1	1	1	1	1	1	1	100
5322		1	1	1	1	1	1	1	1	1	1	100
5323		1	1	1	1	1	1	1	1	1	1	100
5324		1	1	1	1	1	1	1	1	1	1	100
5325		1	1	1	1	1	1	1	1	1	1	100
5326		1	1	1	1	1	1	1	1	1	1	100
5327		1	1	1	1	1	1	1	1	1	1	100
5328	(Fh)	1	1	1	1	1	1	1	1	1	1	100
5329		0	0	0	0	0	0	0	0	0	0	0
5330		0	0	0	0	0	0	0	0	0	0	0

Detection Bandwidth = FH - FL = 5328MHz - 5291MHz = 37MHz

**EUT 99% Bandwidth = 37.467MHz** 

UNII Detection Bandwidth Min. Limit = 37.467MHz X 80% = 29.973MHz



Product : Full HD Video Wireless Receiver Module

Test Item : UNII Detection Bandwidth

Radar Type : Type 1

Test Mode : Mode 1: Transmit

Test Frequency:	Test Frequency: 5550MHz												
Radar Frequency	DFS	Dete	ction	Trials	(1= D	etect	on, 0:	= No [	Detect	ion)	<b>Detection Rate</b>		
(MHz)	1	2	3	4	5	6	7	8	9	10	(%)		
5490	0	0	0	0	0	0	0	0	0	0	0		
5491 (FI)	1	1	1	1	1	1	1	1	1	1	100		
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		
5496	1	1	1	1	1	1	1	1	1	1	100		
5497	1	1	1	1	1	1	1	1	1	1	100		
5498	1	1	1	1	1	1	1	1	1	1	100		
5499	1	1	1	1	1	1	1	1	1	1	100		
5500	1	1	1	1	1	1	1	1	1	1	100		
5501	1	1	1	1	1	1	1	1	1	1	100		
5502	1	1	1	1	1	1	1	1	1	1	100		
5503	1	1	1	1	1	1	1	1	1	1	100		
5504	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	1	1	1	1	1	1	1	1	1	1	100		
5510	1	1	1	1	1	1	1	1	1	1	100		
5511	1	1	1	1	1	1	1	1	1	1	100		
5512	1	1	1	1	1	1	1	1	1	1	100		
5513	1	1	1	1	1	1	1	1	1	1	100		
5514	1	1	1	1	1	1	1	1	1	1	100		
5515	1	1	1	1	1	1	1	1	1	1	100		
5516	1	1	1	1	1	1	1	1	1	1	100		



5517	1	1	1	1	1	1	1	1	1	1	100
5518	1	1	1	1	1	1	1	1	1	1	100
5519	1	1	1	1	1	1	1	1	1	1	100
5520	1	1	1	1	1	1	1	1	1	1	100
5521	1	1	1	1	1	1	1	1	1	1	100
5522	1	1	1	1	1	1	1	1	1	1	100
5523	1	1	1	1	1	1	1	1	1	1	100
5524	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
<b>5529</b> (Fh)	1	1	1	1	1	1	1	1	1	1	100
5530	0	0	0	0	0	0	0	0	0	0	0

Detection Bandwidth = FH - FL = 5529MHz - 5491MHz = 38MHz

**EUT 99% Bandwidth = 37.467MHz** 

UNII Detection Bandwidth Min. Limit = 37.467MHz X 80% = 29.973MHz



## 3. Initial Channel Availability Check Time

#### 3.1. Test Procedure

The U-NII device is powered on and instructed to operate at 5550 MHz. At the same time the UUT

is powered on, the spectrum analyzer is set to zero span mode with a 3 MHz resolution bandwidth at 5310Mhz and 5550MHz with a 2.5 minute sweep time. The analyzer's sweep will be started the same time power is applied to the U-NII device.

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

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

#### 3.2. Test Requirement

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

#### 3.3. Uncertainty

± 1ms.



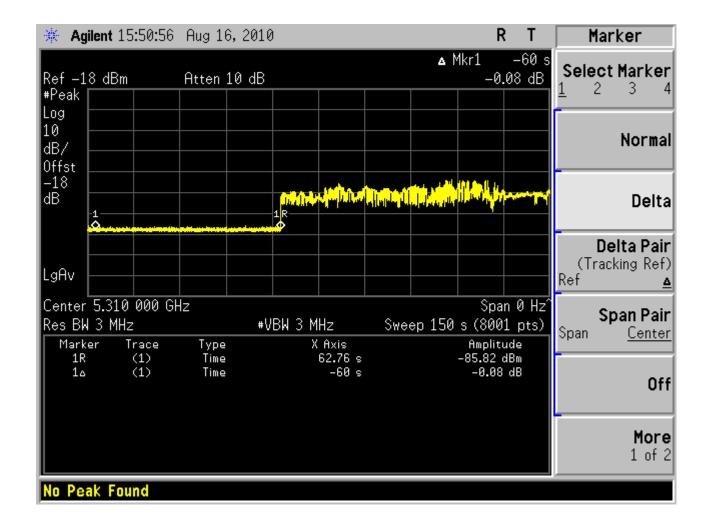
# 3.4. Test Result of Initial Channel Availability Check Time

Product : Full HD Video Wireless Receiver Module
Test Item : Initial Channel Availability Check Time

Radar Type : Type 1

Test Mode : Mode 1: Transmit –5310MHz

The EUT does not transmit any beacon or data transmission until at least 1 minute after the completion of the power-on cycle (2.76sec). The initial power up time of the EUT is indicated by Marker 1R (62.76 sec) – CAC (60 sec). Initial beacons/data transmission are indicated by Marker 1R (62.76 sec)



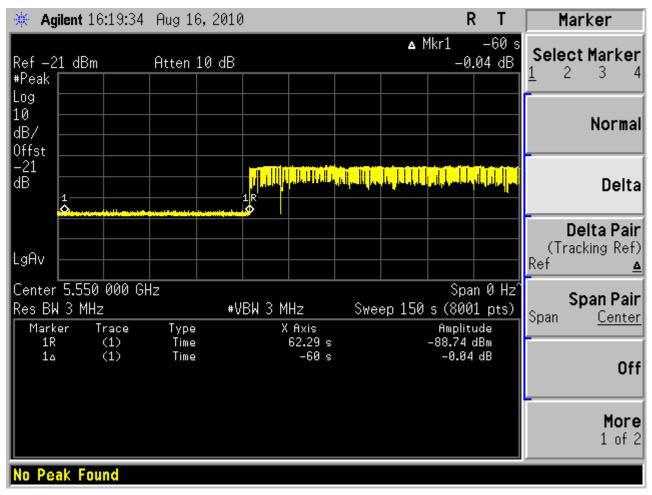


Product : Full HD Video Wireless Receiver Module
Test Item : Initial Channel Availability Check Time

Radar Type : Type 1

Test Mode : Mode 1: Transmit –5550MHz

The EUT does not transmit any beacon or data transmission until at least 1 minute after the completion of the power-on cycle (2.29sec). The initial power up time of the EUT is indicated by Marker 1R (62.29 sec) – CAC (60 sec). Initial beacons/data transmission are indicated by Marker 1R (62.29 sec)





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

#### 4.1. Test Procedure

The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB (-63dBm) occurs at the beginning of the Channel Availability Check Time.

The EUT is powered on at T0. T1 denotes the instant when the EUT has completed its power-up sequence. The Channel Availability Check Time commences at instant  $T_1$  and will end no sooner than  $T_1 + 60$  seconds.

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

Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions at 5310MHz and 5550MHz will continue for 2.5 minutes after the radar Burst, Verify that during the 2.5 minute measurement window no EUT transmissions occurred at 5310MHz and 5550MHz.

#### 4.2. Test Requirement

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

#### 4.3. Uncertainty

± 1ms.



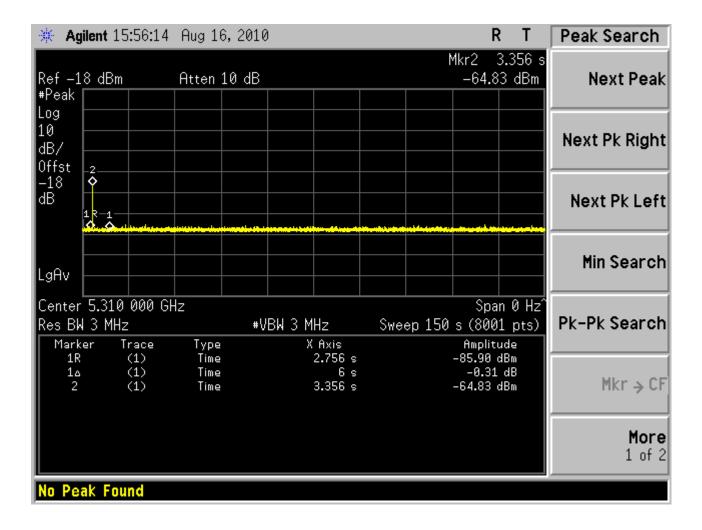
# 4.4. Test Result of Radar Burst at the Beginning of the Channel Availability Check Time

Product : Full HD Video Wireless Receiver Module

Test Item : Radar Burst at the Beginning of the Channel Availability Check Time

Radar Type : Type 1

Test Mode : Mode 1: Transmit –5310MHz



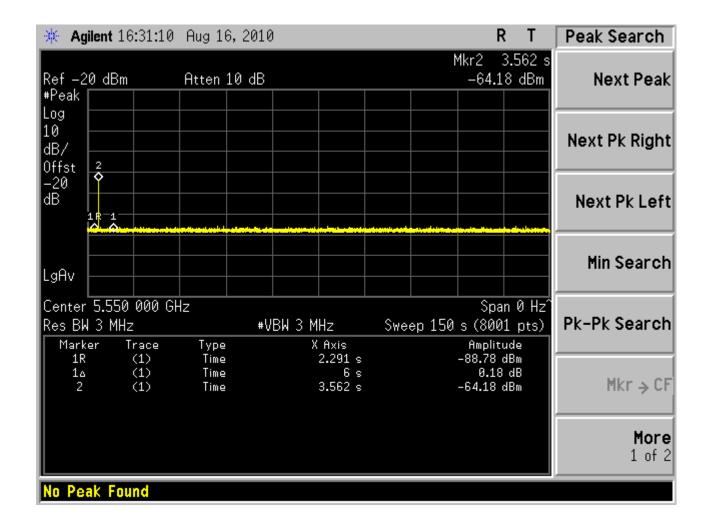


Product : Full HD Video Wireless Receiver Module

Test Item : Radar Burst at the Beginning of the Channel Availability Check Time

Radar Type : Type 1

Test Mode : Mode 1: Transmit –5550MHz





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

#### **5.1.** Test Procedure

The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB (-63dBm) occurs at the end of the Channel Availability Check Time.

The UUT is powered on at  $T_0$ .  $T_1$  denotes the instant when the UUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than  $T_1 + 60$  seconds. A single Burst of short pulse of radar type 1 at -63 dBm will commence within a 6 second window starting at  $T_1 + 54$  seconds.

Visual indication on the UUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions at 5310MHz and 5550MHz will continue for 2.5 minutes after the radar Burst has been generated.

Verify that during the 2.5 minute measurement window no UUT transmissions occurred at 5310MHz and 5550MHz.

#### **5.2.** Test Requirement

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

#### 5.3. Uncertainty

± 1ms.



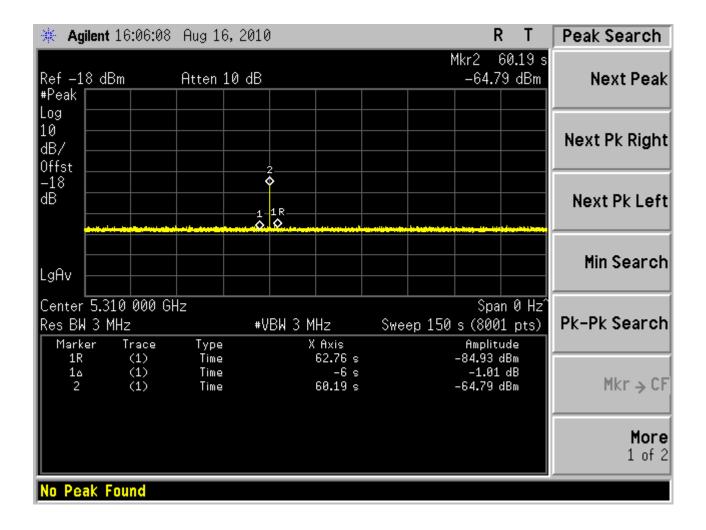
# 5.4. Test Result of Radar Burst at the End of the Channel Availability Check Time

Product : Full HD Video Wireless Receiver Module

Test Item : Radar Burst at the End of the Channel Availability Check Time

Radar Type : Type 1

Test Mode : Mode 1: Transmit –5310MHz



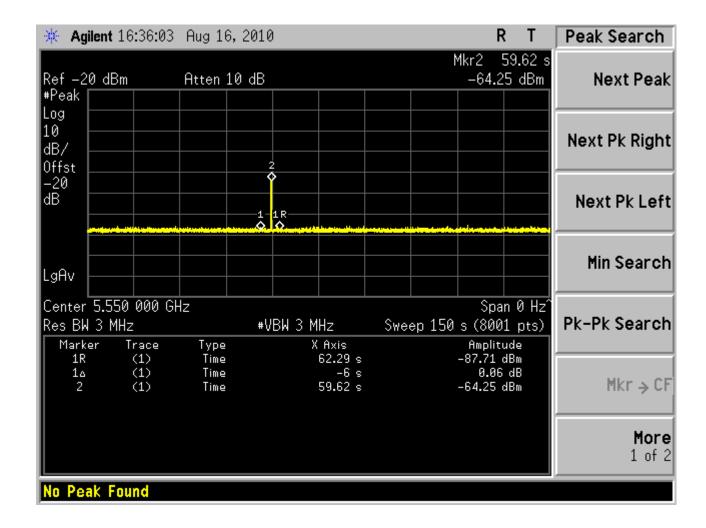


Product : Full HD Video Wireless Receiver Module

Test Item : Radar Burst at the End of the Channel Availability Check Time

Radar Type : Type 1

Test Mode : Mode 1: Transmit –5550MHz





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

### **6.1.** Test Procedure

These tests define how the following DFS parameters are verified during In-Service Monitoring;

Channel Closing Transmission Time, Channel Move Time, and Non-Occupancy Period. The steps below define the procedure to determine the above mentioned parameters when a radar Burst with a level equal to the DFS Detection Threshold + 1dB (-63dBm) is generated on the Operating Channel of the U-NII device.

A U-NII device operating as a Client Device will associate with the UUT (Master) at 5310 MHz and 5550MHz.

Stream the MPEG test file from the Client Device (TX) to the Master Device (RX) on the selected Channel for the entire period of the test.

At time  $T_0$  the Radar Waveform generator sends a Burst of pulses for each of the radar types at -63dBm.

Observe the transmissions of the UUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). Compare the Channel Move Time and Channel Closing

Transmission Time results to the limits defined in the DFS Response requirement values table.

Measure the UUT for more than 30 minutes following the channel close/move time to verify that the UUT does not resume any transmissions on this Channel.

### **6.2.** Test Requirement

Parameter	Value
Channel Move Time	10 Seconds
Channel Closing Transmission	200 milliseconds + approx. 60 milliseconds over
Time	remaining 10 seconds period
Non-Occupancy Period	Minimum 30 minutes

### 6.3. Uncertainty

± 1ms.



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

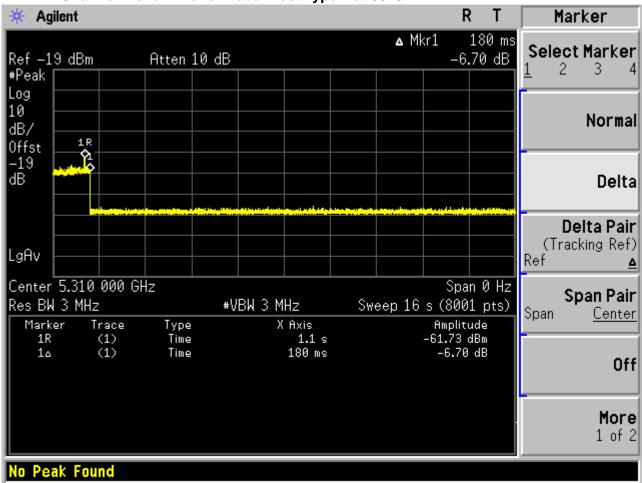
Product : Full HD Video Wireless Receiver Module

Test Item : Channel Move Time Test

Radar Type : Type 1

Test Mode : Mode 1: Transmit –5310MHz

# Channel Move Time for Radar Test Type 1 at 5310MHz



Test Item	Test Result (Sec)	Limit (Sec)
Channel Move Time	0.18	10

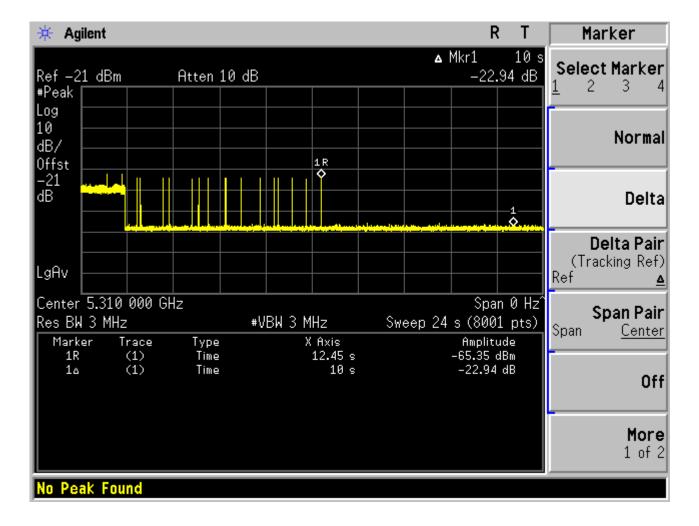


Test Item : Channel Move Time Test

Radar Type : Type 5

Test Mode : Mode 1: Transmit –5310MHz

# Channel Move Time for Radar Test Type 5 at 5310MHz



Test Item	Test Result (Sec)	Limit (Sec)
Channel Move Time	0	10

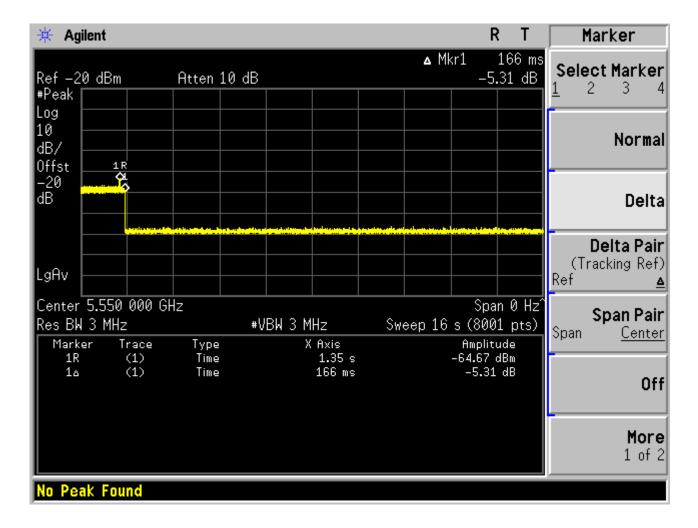


Test Item : Channel Move Time

Radar Type : Type 1

Test Mode : Mode 1: Transmit –5550MHz

### Channel Move Time for Radar Test Type 1 at 5550MHz



Test Item	Test Result (Sec)	Limit (Sec)
Channel Move Time	0.166	10

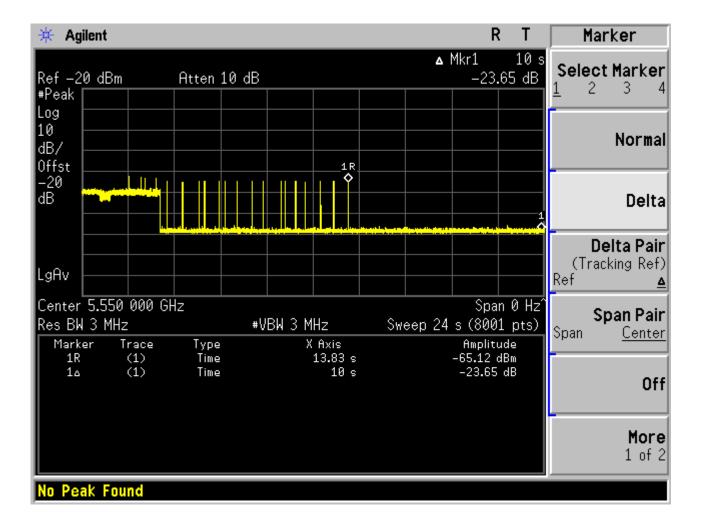


Test Item : Channel Move Time

Radar Type : Type 5

Test Mode : Mode 1: Transmit –5550MHz

# Channel Move Time for Radar Test Type 5 at 5550MHz



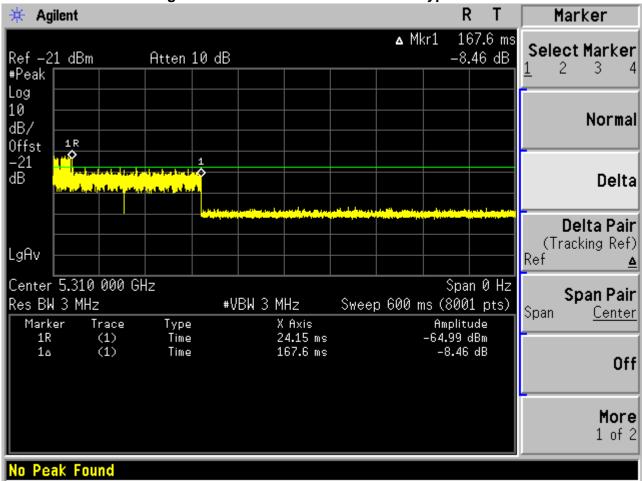
Test Item	Test Result (Sec)	Limit (Sec)
Channel Move Time	0	10



Radar Type : Type 1

Test Mode : Mode 1: Transmit –5310MHz

# Channel Closing Transmission Time for Radar Test Type 1 at 5310 MHz



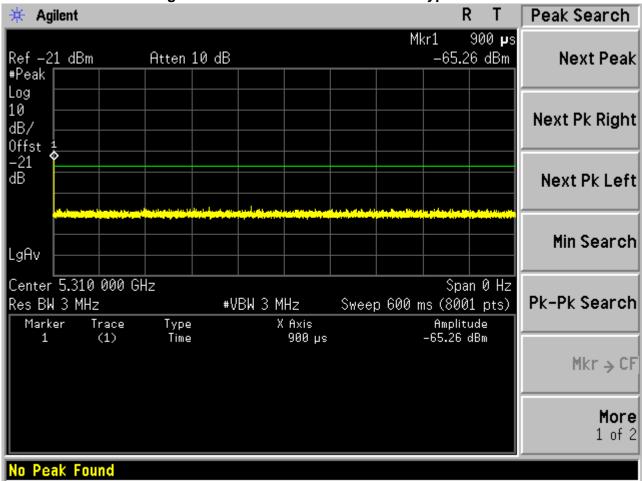
Test Item	Test Result (ms)	Limit (ms)
Channel Closing Transmission	0	200 milliseconds + approx. 60
Charmer Closing Transmission	U	
		milliseconds over remaining 10
		seconds period



Radar Type : Type 5

Test Mode : Mode 1: Transmit –5310MHz

# Channel Closing Transmission Time for Radar Test Type 5 at 5310 MHz



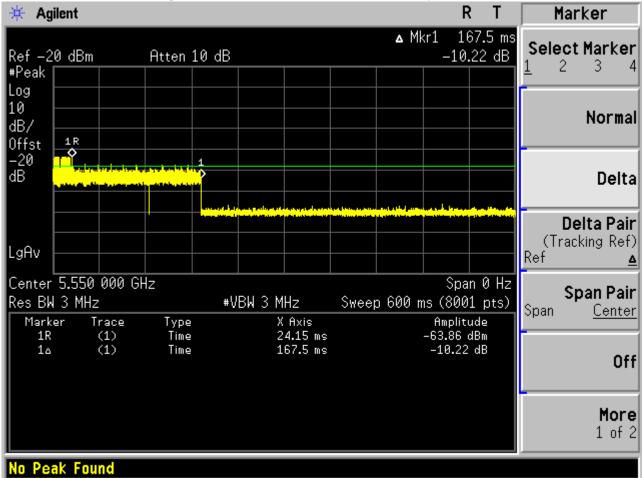
Took Itam	Test Result	Limit
Test Item	(ms)	(ms)
Channel Closing Transmission	0	200 milliseconds + approx. 60
		milliseconds over remaining 10
		seconds period



Radar Type : Type 1

Test Mode : Mode 1: Transmit –5550MHz

# Channel Closing Transmission Time for Radar Test Type 1 at 5550 MHz



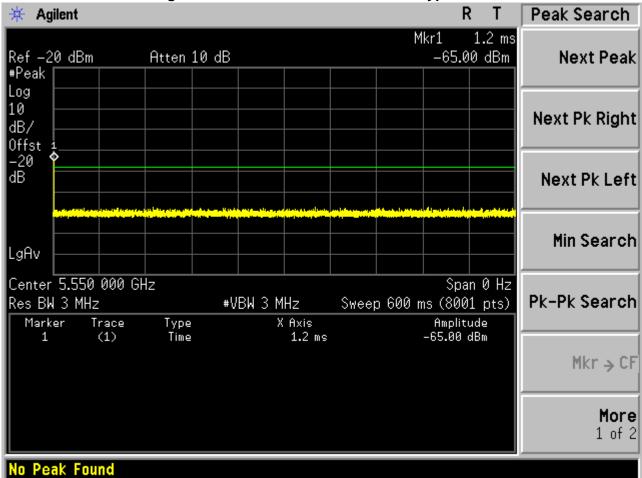
Test Item	Test Result (ms)	Limit (ms)
Channel Closing Transmission	0	200 milliseconds + approx. 60
		milliseconds over remaining 10
		seconds period



Radar Type : Type 5

Test Mode : Mode 1: Transmit –5550MHz

# Channel Closing Transmission Time for Radar Test Type 5 at 5550 MHz



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

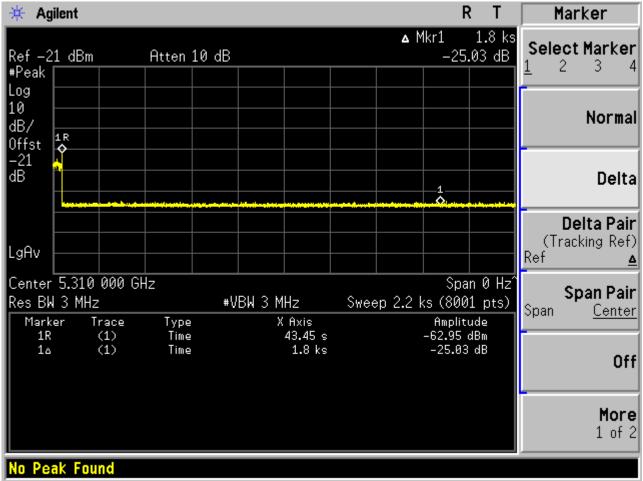


Test Item : Non-Occupancy Period

Radar Type: Type 1

Test Mode : Mode 1: Transmit –5310MHz

# Non-Occupancy Period at 5310 MHz



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

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

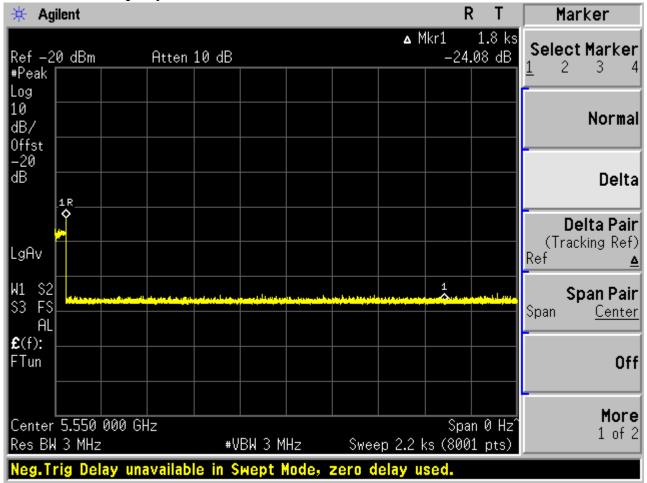


Test Item : Non-Occupancy Period

Radar Type: Type 1

Test Mode : Mode 1: Transmit –5550MHz

### Non-Occupancy Period at 5550 MHz



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

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



#### 7. Statistical Performance Check

#### 7.1. Test Procedure

The steps below define the procedure to determine the minimum percentage of detection when a radar burst with a level equal to the DFS Detection Threshold + 1dB (-61dBm) is generated on the Operating Channel of the U-NII device.

A U-NII device operating as a Client Device will associate with the UUT (Master) at 5500 MHz.

Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test.

The Radar Waveform generator sends the individual waveform for each of the radar types 1-6 at

-61dbm. Statistical data will be gathered to determine the ability of the device to detect the radar test waveforms. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.

# 7.2. Test Requirement

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

# Minimum percentage of successful detections

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



The percentage of successful detection is calculated by:

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

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

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

# 7.3. Uncertainty

± 1ms.



# 7.4. Test Result of Statistical Performance Check

Product : Full HD Video Wireless Receiver Module

Test Item : Statistical Performance Check

Radar Type : Type 1

Test Mode : Mode 1: Transmit –5310MHz

Trial	Frequency	Pulse Width	PRI	D 1 /D	1= Detection
#	(MHz)	(us)	(us)	Pulses/Burs	0= No Detection
1	5310	1	1428	18	1
2	5310	1	1428	18	1
3	5310	1	1428	18	1
4	5310	1	1428	18	1
5	5310	1	1428	18	1
6	5310	1	1428	18	1
7	5310	1	1428	18	1
8	5310	1	1428	18	1
9	5310	1	1428	18	1
10	5310	1	1428	18	1
11	5310	1	1428	18	1
12	5310	1	1428	18	1
13	5310	1	1428	18	1
14	5310	1	1428	18	1
15	5310	1	1428	18	1
16	5310	1	1428	18	1
17	5310	1	1428	18	1
18	5310	1	1428	18	1
19	5310	1	1428	18	1
20	5310	1	1428	18	1
21	5310	1	1428	18	1
22	5310	1	1428	18	1
23	5310	1	1428	18	1
24	5310	1	1428	18	1
25	5310	1	1428	18	1
26	5310	1	1428	18	1
27	5310	1	1428	18	1
28	5310	1	1428	18	1
29	5310	1	1428	18	1
30	5310	1	1428	18	1
		<b>Detection Percer</b>	ntage(%)		100%



Test Item : Statistical Performance Check

Radar Type : Type 1

Test Mode : Mode 1: Transmit –5550MHz

Trial	Frequency	Pulse Width	PRI	Drale a s /Draws	1= Detection
#	(MHz)	(us)	(us)	Pulses/Burs	0= No Detection
1	5550	1	1428	18	1
2	5550	1	1428	18	1
3	5550	1	1428	18	1
4	5550	1	1428	18	1
5	5550	1	1428	18	1
6	5550	1	1428	18	1
7	5550	1	1428	18	1
8	5550	1	1428	18	1
9	5550	1	1428	18	1
10	5550	1	1428	18	1
11	5550	1	1428	18	1
12	5550	1	1428	18	1
13	5550	1	1428	18	1
14	5550	1	1428	18	1
15	5550	1	1428	18	1
16	5550	1	1428	18	1
17	5550	1	1428	18	1
18	5550	1	1428	18	1
19	5550	1	1428	18	1
20	5550	1	1428	18	1
21	5550	1	1428	18	1
22	5550	1	1428	18	1
23	5550	1	1428	18	1
24	5550	1	1428	18	1
25	5550	1	1428	18	1
26	5550	1	1428	18	1
27	5550	1	1428	18	1
28	5550	1	1428	18	1
29	5550	1	1428	18	1
30	5550	1	1428	18	1
		Detection Percer	ntage(%)		100%



Test Item : Statistical Performance Check

Radar Type : Type 2

Test Mode : Mode 1: Transmit –5310MHz

Trial	al Frequency Pulse Width		PRI	D. 1 /D	1= Detection
#	(MHz)	(us)	(us)	Pulses/Burs	0= No Detection
1	5310	29	3.60	194	1
2	5310	26	4.20	227	1
3	5310	26	1.40	210	1
4	5310	29	1.70	194	1
5	5310	23	1.70	193	1
6	5310	29	1.30	211	1
7	5310	28	3.10	168	1
8	5310	29	4.20	186	1
9	5310	23	1.70	204	1
10	5310	28	2.40	205	1
11	5310	27	2.40	174	1
12	5310	25	3.80	188	1
13	5310	23	4.60	169	1
14	5310	24	3.80	169	1
15	5310	29	4.20	192	1
16	5310	27	2.80	168	1
17	5310	26	1.40	173	1
18	5310	29	3.60	185	1
19	5310	26	2.30	159	1
20	5310	28	4.60	171	1
21	5310	25	2.20	193	1
22	5310	23	4.40	176	1
23	5310	24	4.90	165	1
24	5310	23	2.90	221	1
25	5310	29	3.60	176	1
26	5310	26	3.80	203	1
27	5310	24	3.00	198	1
28	5310	24	3.40	224	1
29	5310	23	2.60	192	1
30	5310	28	3.30	161	1
		Detection Percen	tage(%)		100%



Test Item : Statistical Performance Check

Radar Type : Type 2

Test Mode : Mode 1: Transmit –5550MHz

Trial	Frequency	Pulse Width	Pulse Width PRI Pulses/Burs		1= Detection
#	(MHz)	(us)	(us)	Pulses/buls	0= No Detection
1	5550	26	4.20	155	1
2	5550	29	2.20	197	1
3	5550	23	1.80	211	1
4	5550	28	2.00	175	1
5	5550	26	2.00	176	1
6	5550	26	1.90	181	1
7	5550	23	1.00	192	1
8	5550	23	2.80	186	1
9	5550	25	2.60	160	1
10	5550	28	2.00	186	1
11	5550	24	2.60	150	1
12	5550	24	3.10	214	1
13	5550	24	4.60	218	1
14	5550	27	3.50	153	1
15	5550	23	1.00	173	1
16	5550	29	1.50	190	1
17	5550	26	3.80	167	1
18	5550	28	2.90	206	1
19	5550	24	1.40	194	1
20	5550	27	3.70	227	1
21	5550	26	1.40	192	1
22	5550	25	1.40	228	1
23	5550	27	2.20	219	1
24	5550	24	3.20	194	1
25	5550	27	3.40	227	1
26	5550	26	1.30	177	1
27	5550	29	3.80	174	1
28	5550	24	1.80	203	1
29	5550	25	4.10	174	1
30	5550	25	4.90	185	1
		<b>Detection Percen</b>	tage(%)		100%



Test Item : Statistical Performance Check

Radar Type : Type 3

Test Mode : Mode 1: Transmit –5310MHz

Trial	Frequency	Pulse Width	PRI	Pulses/Burs	1= Detection
#	(MHz)	(us)	(us)	Pulses/burs	0= No Detection
1	5310	16	9.60	295	1
2	5310	17	6.50	411	1
3	5310	16	8.80	424	1
4	5310	16	8.00	406	1
5	5310	18	8.40	386	1
6	5310	16	7.50	292	1
7	5310	16	5.30	260	1
8	5310	18	6.10	477	1
9	5310	17	6.20	288	1
10	5310	18	9.80	481	1
11	5310	17	9.00	497	1
12	5310	18	7.00	478	1
13	5310	18	7.80	280	1
14	5310	18	6.60	360	1
15	5310	17	9.50	420	1
16	5310	17	9.40	264	1
17	5310	17	5.30	432	1
18	5310	17	6.20	314	1
19	5310	17	8.30	371	1
20	5310	17	9.30	315	1
21	5310	17	8.00	332	1
22	5310	16	9.50	270	1
23	5310	16	6.20	387	1
24	5310	17	8.50	284	1
25	5310	16	5.20	319	1
26	5310	17	5.80	284	1
27	5310	16	7.20	331	1
28	5310	17	5.50	438	1
29	5310	17	6.50	296	1
30			362	1	
		Detection Percen	tage(%)		100%



Test Item : Statistical Performance Check

Radar Type : Type 3

Test Mode : Mode 1: Transmit –5550MHz

Trial	Frequency	Pulse Width	PRI Pulses/Burs		1= Detection	
#	(MHz)	(us)	(us)	Pulses/buls	0= No Detection	
1	5550	17	6.60	414	1	
2	5550	17	5.90	494	1	
3	5550	18	8.00	293	1	
4	5550	17	7.70	335	1	
5	5550	16	9.30	383	1	
6	5550	18	9.60	367	1	
7	5550	17	7.40	335	1	
8	5550	17	8.80	340	1	
9	5550	16	7.80	272	1	
10	5550	18	8.60	311	1	
11	5550	16	7.20	264	1	
12	5550	17	7.40	296	1	
13	5550	17	5.90	312	1	
14	5550	18	5.30	373	1	
15	5550	17	5.60	370	1	
16	5550	17	8.10	322	1	
17	5550	17	6.90	310	1	
18	5550	18	8.20	272	1	
19	5550	16	8.00	317	1	
20	5550	17	5.40	413	1	
21	5550	18	9.00	487	1	
22	5550	17	9.70	336	1	
23	5550	16	7.30	475	1	
24	5550	16	8.60	297	1	
25	5550	16	6.30	280	1	
26	5550	17	9.70	333	1	
27	5550	18	5.40	337	1	
28	5550	17	9.40	406	1	
29	5550	17	5.50	292	1	
30	5550	16	6.00	278	1	
		Detection Percen	itage(%)		100%	



Test Item : Statistical Performance Check

Radar Type : Type 4

Test Mode : Mode 1: Transmit –5310MHz

Trial	Frequency	Pulse Width	PRI	Pulses/Burs	1= Detection
#	(MHz)	(us)	(us)	Pulses/burs	0= No Detection
1	5310	15	15.40	458	1
2	5310	15	10.10	290	1
3	5310	12	18.10	372	1
4	5310	14	10.10	275	1
5	5310	14	16.80	483	1
6	5310	15	15.70	277	1
7	5310	15	20.00	268	1
8	5310	12	12.10	407	1
9	5310	12	10.60	264	1
10	5310	15	10.20	475	1
11	5310	15	16.30	266	1
12	5310	15	17.30	263	1
13	5310	16	17.10	305	1
14	5310	16	17.80	465	1
15	5310	15	12.00	296	1
16	5310	12	17.40	444	1
17	5310	16	15.40	335	1
18	5310	12	14.80	409	1
19	5310	12	13.60	493	1
20	5310	16	16.10	272	1
21	5310	16	16.30	340	1
22	5310	15	16.00	275	1
23	5310	13	15.30	282	1
24	5310	16	12.00	400	1
25	5310	13	13.40	274	1
26	5310	16	19.20	486	1
27	5310	15	14.30	434	1
28	5310	13	16.70	338	1
29	5310	13	10.50	472	1
30	5310	16	17.90	355	1
		<b>Detection Percen</b>	tage(%)		100%



Test Item : Statistical Performance Check

Radar Type : Type 4

Test Mode : Mode 1: Transmit –5550MHz

Trial	Frequency	Pulse Width	PRI	D.1. /D	1= Detection
#	(MHz)	(us)	(us)	Pulses/Burs	0= No Detection
1	5550	13	19.70	440	1
2	5550	13	19.40	434	1
3	5550	16	11.20	456	1
4	5550	15	17.20	365	1
5	5550	13	13.60	361	1
6	5550	16	19.40	355	1
7	5550	15	10.30	446	1
8	5550	16	17.40	255	1
9	5550	13	19.60	461	1
10	5550	14	15.20	430	1
11	5550	12	19.10	425	1
12	5550	14	10.70	425	1
13	5550	12	10.00	443	1
14	5550	15	15.30	368	1
15	5550	16	13.00	397	1
16	5550	16	16.30	314	1
17	5550	13	14.60	378	1
18	5550	15	18.60	486	1
19	5550	15	17.40	482	1
20	5550	14	11.80	255	1
21	5550	15	14.70	270	1
22	5550	16	18.60	318	1
23	5550	14	16.10	481	1
24	5550	14	13.20	395	1
25	5550	16	13.60	314	1
26	5550	16	18.10	352	1
27	5550	12	13.90	387	1
28	5550	12	19.20	325	1
29	5550	12	12.80	468	1
30	5550	12	14.20	468	1
		<b>Detection Percen</b>	tage (%)		100%



Total Type 1~4 Radar Statistical Performance							
Radar Type	Detection Percentage (%)	Limit (%)	Result				
1	100	>60%	Pass				
2	100	>60%	Pass				
3	100	>60%	Pass				
4	100	>60%	Pass				
Total Type 1~4	100	>80%	Pass				



Test Item : Statistical Performance Check

Radar Type : Type 5

Test Mode : Mode 1: Transmit –5310MHz

Trial	Frequency	*Filename	1= Detection
#	(MHz)	riiename	0= No Detection
1	5310	Statistical Check RandParm For Radar Type 5 1 trail	1
2	5310	Statistical Check RandParm For Radar Type 5 2 trail	1
3	5310	Statistical Check RandParm For Radar Type 5 3 trail	1
4	5310	Statistical Check RandParm For Radar Type 5 4 trail	1
5	5310	Statistical Check RandParm For Radar Type 5 5 trail	1
6	5310	Statistical Check RandParm For Radar Type 5 6 trail	1
7	5310	Statistical Check RandParm For Radar Type 5 7 trail	1
8	5310	Statistical Check RandParm For Radar Type 5 8 trail	1
9	5310	Statistical Check RandParm For Radar Type 5 9 trail	1
10	5310	Statistical Check RandParm For Radar Type 5 10 trail	1
11	5310	Statistical Check RandParm For Radar Type 5 11 trail	1
12	5310	Statistical Check RandParm For Radar Type 5 12 trail	1
13	5310	Statistical Check RandParm For Radar Type 5 13 trail	1
14	5310	Statistical Check RandParm For Radar Type 5 14 trail	1
15	5310	Statistical Check RandParm For Radar Type 5 15 trail	1
16	5310	Statistical Check RandParm For Radar Type 5 16 trail	1
17	5310	Statistical Check RandParm For Radar Type 5 17 trail	1
18	5310	Statistical Check RandParm For Radar Type 5 18 trail	1
19	5310	Statistical Check RandParm For Radar Type 5 19 trail	1
20	5310	Statistical Check RandParm For Radar Type 5 20 trail	1
21	5310	Statistical Check RandParm For Radar Type 5 21 trail	1
22	5310	Statistical Check RandParm For Radar Type 5 22 trail	1
23	5310	Statistical Check RandParm For Radar Type 5 23 trail	1
24	5310	Statistical Check RandParm For Radar Type 5 24 trail	1
25	5310	Statistical Check RandParm For Radar Type 5 25 trail	1
26	5310	Statistical Check RandParm For Radar Type 5 26 trail	1
27	5310	Statistical Check RandParm For Radar Type 5 27 trail	1
28	5310	Statistical Check RandParm For Radar Type 5 28 trail	1
29	5310	Statistical Check RandParm For Radar Type 5 29 trail	1
30	5310	Statistical Check RandParm For Radar Type 5 30 trail	1
		Detection Percentage (%)	100



Test Item : Statistical Performance Check

Radar Type : Type 5

Test Mode : Mode 1: Transmit –5550MHz

Trial	Frequency	*Filename	1= Detection
#	(MHz)	Filerianie	0= No Detection
1	5550	Statistical Check RandParm For Radar Type 5 1 trail	1
2	5550	Statistical Check RandParm For Radar Type 5 2 trail	1
3	5550	Statistical Check RandParm For Radar Type 5 3 trail	1
4	5550	Statistical Check RandParm For Radar Type 5 4 trail	1
5	5550	Statistical Check RandParm For Radar Type 5 5 trail	1
6	5550	Statistical Check RandParm For Radar Type 5 6 trail	1
7	5550	Statistical Check RandParm For Radar Type 5 7 trail	1
8	5550	Statistical Check RandParm For Radar Type 5 8 trail	1
9	5550	Statistical Check RandParm For Radar Type 5 9 trail	1
10	5550	Statistical Check RandParm For Radar Type 5 10 trail	1
11	5550	Statistical Check RandParm For Radar Type 5 11 trail	1
12	5550	Statistical Check RandParm For Radar Type 5 12 trail	1
13	5550	Statistical Check RandParm For Radar Type 5 13 trail	1
14	5550	Statistical Check RandParm For Radar Type 5 14 trail	1
15	5550	Statistical Check RandParm For Radar Type 5 15 trail	1
16	5550	Statistical Check RandParm For Radar Type 5 16 trail	1
17	5550	Statistical Check RandParm For Radar Type 5 17 trail	1
18	5550	Statistical Check RandParm For Radar Type 5 18 trail	1
19	5550	Statistical Check RandParm For Radar Type 5 19 trail	1
20	5550	Statistical Check RandParm For Radar Type 5 20 trail	1
21	5550	Statistical Check RandParm For Radar Type 5 21 trail	1
22	5550	Statistical Check RandParm For Radar Type 5 22 trail	1
23	5550	Statistical Check RandParm For Radar Type 5 23 trail	1
24	5550	Statistical Check RandParm For Radar Type 5 24 trail	1
25	5550	Statistical Check RandParm For Radar Type 5 25 trail	1
26	5550	Statistical Check RandParm For Radar Type 5 26 trail	1
27	5550	Statistical Check RandParm For Radar Type 5 27 trail	1
28	5550	Statistical Check RandParm For Radar Type 5 28 trail	1
29	5550	Statistical Check RandParm For Radar Type 5 29 trail	1
30	5550	Statistical Check RandParm For Radar Type 5 30 trail	1
		Detection Percentage (%)	100

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_01\_trail

Waveform Num = 1 Num of Bursts = 9 Burst Interval (us)= 1333333

Burst #	Off Time (us) 383726	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	1129856	3	13	60	1829	1046	1894	383726	0	1333332
2	2244062	3	8	95	1559	1277	1248	1518351	1333333	2666665
3	1280315	2	5	80	1793	1090	0	3766497	2666666	3999998
4		2	8	100	1481	1460	0	5049695	3999999	5333331
5	587887	2	8	75	1924	1452	0	5640523	5333332	6666664
6	2207604	3	19	95	1171	1309	1232	7851503	6666665	7999997
7	1033398	1	17	70	1945	0	0	8888613	7999998	9333330
8	1071074	2	13	75	1418	1024	0	9961632	9333331	10666663
9	1425886	3	15	80	1227	1559	1352	11389960	10666664	11999996

Total number of pulses in waveform = 21

\*

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_02\_trail

Waveform Num = 2 Num of Bursts = 8 Burst Interval (us)= 1500000

Burst #	Off Time (us) 1121346	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	475796	1	18	95	1323	0	0	1121346	0	1499999
2	2477153	3	9	95	1979	1861	1469	1598465	1500000	2999999
3	483964	2	12	90	1806	1339	0	4080927	3000000	4499999
4	1640978	2	9	95	1419	1594	0	4568036	4500000	5999999
5	1808471	1	19	55	1427	0	0	6212027	6000000	7499999
6	1878786	1	5	50	1753	0	0	8021925	7500000	8999999
7	1616250	1	13	85	1428	0	0	9902464	9000000	10499999
8 Total number	of pulses in w	3 vaveform = 14	19	90	1496	1612	1927	11520142	10500000	11999999

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_03\_trail

Waveform Num = 3 Num of Bursts = 13 Burst Interval (us)= 923077

Burst #	Off Time (us) 758485	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	379395	3	19	85	1423	1448	1065	758485	0	923076
2		2	5	85	1105	1908	0	1141816	923077	1846153
3	1146084	2	17	85	1614	1500	0	2290913	1846154	2769230
4	650963	2	13	75	1504	1776	0	2944990	2769231	3692307
5	1439194	3	15	65	1923	1880	1169	4387464	3692308	4615384
6	829365	3	15	95	1971	1496	1856	5221801	4615385	5538461
0	647778	,	15	93	1971	1490	1000	J221001	4013303	JJJ0401
7	012572	2	9	75	1230	1699	0	5874902	5538462	6461538
8	823573	2	20	80	1606	1549	0	6701404	6461539	7384615
9	1288404	2	7	85	1785	1443	0	7992963	7384616	8307692
10	570553	3	10	75	1523	1700	1852	8566744	8307693	9230769
10	1293017	,	10	73	1525	1700	1002	0300744	0507095	9230709
11	493914	2	15	65	1912	1612	0	9864836	9230770	10153846
12	473714	2	9	50	1893	1867	0	10342074	10153847	11076923
13	1361591	2	14	85	1302	1319	0	11707425	11076924	12000000
Total number	of pulses in v	waveform = 30								

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_04\_trail

Waveform Num = 4 Num of Bursts = 10 Burst Interval (us)= 1200000

Burst #	Off Time (us) 995269	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	1325267	3	16	95	1593	1121	1316	995269	0	1199999
2		3	20	100	1926	1788	1642	2324566	1200000	2399999
3	317300	3	7	95	1492	1072	1389	2647222	2400000	3599999
4	1028020	2	7	100	1346	1648	0	3679195	3600000	4799999
5	1184070	2	19	80	1495	1739	0	4866259	4800000	5999999
6	2016962	1	7	100	1970	0	0	6886455	6000000	7199999
7	1094179	2	20	95	1778	1517	0	7982604	7200000	8399999
8	1069781	1	9	70	1560	0	0	9055680	8400000	9599999
9	979453	3	18	55	1196	1266	1457	10036693	9600000	10799999
10	1517198	1	13	85	1024	0	0	11557810	10800000	11999999
Total number	of pulses in	waveform = 21								

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_05\_trail

Waveform Num = 5 Num of Bursts = 10 Burst Interval (us)= 1200000

Burst #	Off Time (us) 688979	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	608642	1	10	65	1843	0	0	688979	0	1199999
2		1	16	60	1247	0	0	1299464	1200000	2399999
3	2167994	3	13	60	1332	1589	1353	3468705	2400000	3599999
4	722319	2	7	55	1392	1528	0	4195298	3600000	4799999
5	1155022	2	12	95	1963	1991	0	5353240	4800000	5999999
6	750272	1	7	70	1557	0	0	6107466	6000000	7199999
7	1908210	2	20	65	1834	1365	0	8017233	7200000	8399999
8	1431226	2	17	100	1920	1767	0	9451658	8400000	9599999
	518855									
9	1062601	2	18	80	1936	1066	0	9974200	9600000	10799999
10 Total number	of pulses in	1 waxeform = 17	19	50	1973	0	0	11039803	10800000	11999999

Total number of pulses in waveform = 17

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Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_06\_trail

\*

Waveform Num = 6 Num of Bursts = 20 Burst Interval (us)= 600000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	233984	3	19	55	1028	1438	1997	233984	0	599999
2	910507	3	10	100		1356	1541	1148954	600000	1199999
	419507	3	10	100	1724	1556	1341	1140934	800000	1199999
3	805524	2	16	65	1989	1039	0	1573082	1200000	1799999
4		2	16	85	1234	1008	0	2381634	1800000	2399999
5	126594	2	14	95	1036	1832	0	2510470	2400000	2999999
6	746102	3	19	55	1085	1215	1825	3259440	3000000	3599999
	797602									
7	415681	3	8	60	1392	1680	1581	4061167	3600000	4199999
8		3	19	85	1556	1454	1021	4481501	4200000	4799999
9	560148	3	20	80	1862	1854	1693	5045680	4800000	5399999
10	461874	2	17	90	1607	1497	0	5512963	5400000	5999999
	1048494									
11	389412	2	9	90	1561	1002	0	6564561	6000000	6599999
12		1	7	80	1762	0	0	6956536	6600000	7199999
13	258455	3	17	70	1092	1247	1750	7216753	7200000	7799999
14	724485	3	20	75	1280	1827	1648	7945327	7800000	8399999
	710865									
15	709015	3	8	70	1340	1634	1581	8660947	8400000	8999999
16	583480	1	14	70	1361	0	0	9374517	9000000	9599999
17		3	10	60	1253	1507	1869	9959358	9600000	10199999
18	564212	2	17	65	1719	1957	0	10528199	10200000	10799999
	470543									
19	795565	3	8	95	1779	1686	1009	11002418	10800000	11399999
20	how of -ulass in	1	10	55	1948	0	0	11802457	11400000	11999999
TOTAL NUMB	ber of pulses in	. wave10131 = 4								

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_07\_trail

Waveform Num = 7 Num of Bursts = 8 Burst Interval (us)= 1500000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	P₩ (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	1423174				, ,	, ,			, ,	
1		2	5	55	1352	1199	0	1423174	0	1499999
	928228									
2		2	10	80	1037	1548	0	2353953	1500000	2999999
	752449									
3		1	13	60	1590	0	0	3108987	3000000	4499999
	2197754					_	_			
4		1	7	95	1330	0	0	5308331	4500000	5999999
_	709586	2		60	1820	1000	1000	601004B	6000000	n.400000
5	2050400	3	9	60	1732	1973	1770	6019247	6000000	7499999
	2050408	3	12	55	1258	1048	1145	0075120	7500000	8999999
6	2372556	3	12	,,,	1230	1040	1145	8075130	7500000	0999999
7	2572550	1	9	100	1805	0	0	10451137	9000000	10499999
'	1012642	1	,	100	1005	Ü	Ü	10451151	7000000	10477777
8	1012012	2	12	95	1024	1606	0	11465584	10500000	11999999
	er of pulses in	waveform = 1					_			
	<del>.</del>									

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_08\_trail

\*

Waveform Num = 8
Num of Bursts = 12
Burst Interval (us)= 1000000

Burst #	Off Time (us) 811275	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1		3	6	75	1582	1529	1905	811275	0	999999
2	817223	3	10	65	1259	1855	1915	1633514	1000000	1999999
3	468375	2	20	80	1682	1575	0	2106918	2000000	2999999
4	1312443	1	20	80	1529	0	0	3422618	3000000	3999999
5	946885	1	18	95	1987	0	0	4371032	4000000	4999999
6	743320	2	16	90	1084	1469	0	5116339	5000000	5999999
7	1517006	3	13	65	1620	1902	1584	6635898	6000000	6999999
8	969851	1	5	90	1637	0	0	7610855	7000000	7999999
9	869512	1	7	80	1520	0	0	8482004	8000000	8999999
	699451	2								
10	920887	3	8	95	1615	1752	1207	9182975	9000000	9999999
11	1238569	2	15	85	1027	1952	0	10108436	10000000	10999999
12 Total number	of pulses in w	2 vaveform = 24	12	55	1074	1153	0	11349984	11000000	11999999

\*

Waveform Num = 9 Num of Bursts = 16

Burst Interval (us)= 750000

Burst #	Off Time (us) 250536	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1		1	16	95	1772	0	0	250536	0	749999
2	1221753	2	7	95	1558	1450	0	1474061	750000	1499999
3	537354	1	13	90	1556	0	0	2014423	1500000	2249999
4	639363	2	12	80	1015	1804	0	2655342	2250000	2999999
5	709590	3	5	70	1319	1304	1181	3367751	3000000	3749999
6	393047	2	5	65	1494	1287	0	3764602	3750000	4499999
7	1283706	3	14	100	1718	1134	1801	5051089	4500000	5249999
8	880556	1	19	65	1912	0	0	5936298	5250000	5999999
	432131									
9	618707	2	17	85	1827	1147	0	6370341	6000000	6749999
10	524789	1	17	60	1932	0	0	6992022	6750000	7499999
11	1178966	2	17	65	1952	1257	0	7518743	7500000	8249999
12		1	11	90	1074	0	0	8700918	8250000	8999999
13	998244	1	16	70	1158	0	0	9700236	9000000	9749999
14	410662	2	13	65	1460	1250	0	10112056	9750000	10499999
15	396025	2	12	95	1352	1220	0	10510791	10500000	11249999
16	830790	2	9	55	1688	1595	0	11344153	11250000	11999999
	of pulses in v		•				-			2

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_10\_trail

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Waveform Num = 10 Num of Bursts = 16

Burst Interval (us)= 750000

			_				_			
Burst #	Off Time (us) 170023	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	1140467	2	14	80	1308	1866	0	170023	0	749999
2		1	11	50	1591	0	0	1313664	750000	1499999
3	518703	1	14	50	1244	0	0	1833958	1500000	2249999
4	877317	1	7	55	1581	0	0	2712519	2250000	2999999
5	688514	1	9	90	1113	0	0	3402614	3000000	3749999
6	874990	2	19	85	1996	1442	0	4278717	3750000	4499999
7	640075	3	19	85	1306	1326	1480	4922230	4500000	5249999
8	834068	1	17	85	1184	0	0	5760410	5250000	5999999
9	448672	1	13	90			0	6210266		
	1239521				1121	0			6000000	6749999
10	480090	1	14	75	1978	0	0	7450908	6750000	7499999
11	595909	3	14	55	1920	1614	1108	7932976	7500000	8249999
12	1142787	1	9	80	1822	0	0	8533527	8250000	8999999
13	132581	2	11	90	1912	1618	0	9678136	9000000	9749999
14	768224	2	9	70	1091	1798	0	9814247	9750000	10499999
15		1	11	95	1266	0	0	10585360	10500000	11249999
16	917708	2	10	100	1929	1801	0	11504334	11250000	11999999
	of pulses in	waveform = 25								

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_11\_trail

Waveform Num = 11 Num of Bursts = 20 Burst Interval (us)= 600000

Off Time (us) 309948	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	1	17	70	1919	0	0	309948	0	599999
	3	16	60	1479	1920	1429	807046	600000	1199999
506480	2	6	55	1946	1727	0	1318354	1200000	1799999
526350									
934016	1	17	55	1814	U	U	1848377	1800000	2399999
	1	14	85	1551	0	0	2784207	2400000	2999999
	2	14	85	1977	1977	0	3246587	3000000	3599999
	2	6	50	1173	1307	0	3919416	3600000	4199999
	1	18	100	1219	0	0	4599449	4200000	4799999
	3	12	60	1516	1325	1161	5273681	4800000	5399999
	2	8	95	1130	1933	0	5877401	5400000	5999999
	1	14	55	1551	0	0	6057221	6000000	6599999
/55941	3	9	50	1677	1065	1395	6812713	6600000	7199999
790226	1	19	50	1389	0	0	7607076	7200000	7799999
512221	1	1./	an	1202	1740	0	0120404	2000000	8399999
463826	2				1700				
968579	1	19	65	1049	0	0	8587664	8400000	8999999
	3	5	90	1591	1772	1250	9557292	9000000	9599999
133872	3	11	80	1684	1780	1920	9695777	9600000	10199999
892169	2	5	55	1047	17/19	0	10502220	10200000	10799999
476757									
719705	2	17	65	1521	1382	0	11072882	10800000	11399999
	2 . waveform = 3	9 38	55	1556	1441	0	11795490	11400000	11999999
	(us) 309948 495179 506480 526350 934016 460829 668875 677553 673013 599718 176757 753941 790226 512221 463826 968579 133872 892169 476757 719705	(us) Pulses 309948  1 495179  3 506480  2 526350  1 934016  1 460829  2 668875  2 677553  1 673013  3 599718  2 176757  1 753941  3 790226  1 512221  2 463826  1 968579  3 133872  3 892169  2 476757  2 719705	(us)     Pulses     (MHz)       309948     1     17       495179     3     16       506480     2     6       526350     1     17       934016     1     14       460829     2     14       668875     2     6       677553     1     18       673013     3     12       599718     2     8       176757     1     14       753941     3     9       790226     1     19       512221     2     14       463826     1     19       968579     3     5       133872     3     11       892169     2     5       476757     2     17       719705     17	(us)       Pulses       (MHz)       (us)         309948       1       17       70         495179       3       16       60         506480       2       6       55         526350       1       17       55         934016       1       14       85         460829       2       14       85         668875       2       6       50         677553       1       18       100         673013       3       12       60         599718       2       8       95         176757       1       14       55         753941       3       9       50         512221       2       14       90         463826       1       19       65         968579       3       5       90         133872       3       11       80         892169       2       5       55         476757       2       17       65         719705       2       9       55	(us)         Pulses         (MHz)         (us)         Pri(us)           309948         1         17         70         1919           495179         3         16         60         1479           506480         2         6         55         1946           526350         1         17         55         1814           934016         1         14         85         1551           460829         2         14         85         1977           668875         2         6         50         1173           677553         1         18         100         1219           673013         3         12         60         1516           599718         2         8         95         1130           176757         1         14         55         1551           753941         3         9         50         1677           790226         1         19         50         1389           512221         2         14         90         1392           463826         1         19         65         1049           968579         3	Name	(us)         Pulses         (MHz)         (us)         Pri(us)         Pri(us)         Pri(us)           309488         1         177         70         1919         0         0           495179         3         16         60         1479         1920         1429           506480         2         6         55         1946         1727         0           526350         1         177         55         1814         0         0           934016         1         14         85         1551         0         0           460829         2         14         85         1977         1977         0           668875         2         6         50         1173         1307         0           677553         1         18         100         1219         0         0           673013         3         12         60         1516         1325         1161           599718         2         8         95         1130         1933         0           176757         1         14         55         1551         0         0           790226         1	(us)         Pri(us)         Pri(us)         Pri(us)         Pri(us)         Pri(us)         (us)           309948         1         17         70         1919         0         0         309948           495179         3         16         60         1479         1920         1429         807046           506480         2         6         55         1946         1727         0         1318354           526350         1         17         55         1814         0         0         1848377           934016         1         14         85         1551         0         0         2784207           460829         2         14         85         1571         0         0         2784207           460829         2         14         85         1977         1977         0         3246587           668875         2         6         50         1173         1307         0         3919416           677553         1         18         100         1219         0         0         4599449           673013         3         12         60         1516         1325         1161	Pri(us)   Pri(us)   Pri(us)   Pri(us)   Pri(us)   Pri(us)   O   O   O   O   O   O   O   O   O

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_12\_trail

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Waveform Num = 12 Num of Bursts = 17

Burst Interval (us)= 705882

Burst #	Off Time (us) 408790	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1		2	19	75	1256	1416	0	408790	0	705881
2	984926	2	17	80	1149	1739	0	1396388	705882	1411763
3	202427	1	6	60	1619	0	0	1601703	1411764	2117645
4	1135665	3	12	95	1820	1075	1990	2738987	2117646	2823527
5	489981	1	10	50	1216	0	0	3233853	2823528	3529409
6	528247	2	11	75	1099	1890	0	3763316	3529410	4235291
7	715204	1	16	100	1718	0	0	4481509	4235292	4941173
8	679950	3	8	100	1152	1965	1721	5163177	4941174	5647055
	697375									
9	683434	2	10	65	1241	1786	0	5865390	5647056	6352937
10	757236	2	10	70	1687	1433	0	6551851	6352938	7058819
11		1	8	60	1109	0	0	7312207	7058820	7764701
12	917257	3	6	85	1912	1219	1864	8230573	7764702	8470583
13	560303	3	20	50	1131	1839	1478	8795871	8470584	9176465
14	751054	1	11	65	1299	0	0	9551373	9176466	9882347
15	588658	2	8	95	1766	1030	0	10141330	9882348	10588229
16	598449	1	19	50	1179	0	0	10742575	10588230	11294111
	650003									
17 Total numbe	er of pulses in	2 .waveform = 3	16 32	65	1231	1673	0	11393757	11294112	11999993

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_13\_trail

Waveform Num = 13 Num of Bursts = 13 Burst Interval (us)= 923077

Burst #	Off Time (us) 490474	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1		3	11	65	1624	1114	1385	490474	0	923076
2	523661 1134946	2	10	55	1206	1882	0	1018258	923077	1846153
3		2	15	60	1366	1333	0	2156292	1846154	2769230
4	1141944	1	12	80	1467	0	0	3300935	2769231	3692307
5	422808	2	16	90	1321	1043	0	3725210	3692308	4615384
6	1684119 803436	3	18	70	1420	1735	1880	5411693	4615385	5538461
7		2	14	70	1986	1421	0	6220164	5538462	6461538
8	766758	2	14	85	1845	1222	0	6990329	6461539	7384615
9	905265	3	12	60	1957	1625	1523	7898661	7384616	8307692
10	875056	3	9	50	1675	1438	1487	8778822	8307693	9230769
11	989082 806676	2	17	85	1756	1561	0	9772504	9230770	10153846
12	1112976	1	19	90	1129	0	0	10582497	10153847	11076923
13		1	10	80	1356	0	0	11696602	11076924	12000000
Total numbe	er of pulses in	waveform = 2	27							

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_14\_trail

Waveform Num = 14 Num of Bursts = 10 Burst Interval (us)= 1200000

Burst #	Off Time (us) 1088222	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	632577	3	6	95	1737	1584	1931	1088222	0	1199999
2		3	14	55	1734	1000	1521	1726051	1200000	2399999
3	1726474	3	15	50	1715	1123	1272	3456780	2400000	3599999
4	323178	1	19	65	1770	0	0	3784068	3600000	4799999
5	1261622	1	15	100	1287	0	0	5047460	4800000	5999999
6	2043843	2	9	85	1856	1503	0	7092590	6000000	7199999
	761946									
7	650723	1	7	60	1340	0	0	7857895	7200000	8399999
8	1766217	2	6	80	1790	1832	0	8509958	8400000	9599999
9		2	19	95	1024	1880	0	10279797	9600000	10799999
10	1286830	2	20	50	1047	1144	0	11569531	10800000	11999999
Total number	of pulses in	waveform = 20								

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_15\_trail

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Waveform Num = 15 Num of Bursts = 18

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	P₩ (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	77762	1	12	90	1650	0	0	77762	0	666666
2	1077799	3	15	55	1380	1128	1497	1157211	666667	1333333
3	700362	2	19	95	1909	1547	0	1861578	1333334	2000000
4	769939	2	9	90	1568	1427	0	2634973	2000001	2666667
5	162438	2	8	100	1079	1180	0	2800406	2666668	3333334
6	681235	1	15	80	1813	0	0	3483900	3333335	4000001
7	577486	3	13	100	1920	1447	1105	4063199	4000002	4666668
8	1082426	1	5	90	1398	0	0	5150097	4666669	5333335
9	564801	1	19	60	1756	0	0	5716296	5333336	6000002
10	681385	2	20	85	1828	1617	0	6399437	6000003	6666669
11	792995	2	9	95	1423	1921	0	7195877	6666670	7333336
12	504244	2	6	55	1778	1158	0	7703465	7333337	8000003
13	518288	3	13	85	1860	1701	1946	8224689	8000004	8666670
14	818844	2	7	50	1664	1607	0	9049040	8666671	9333337
15	334229	2	19	55	1885	1338	0	9386540	9333338	10000004
16	1218766	1	14	60	1475	0	0	10608529	10000005	10666671
17	514974	1	18	95	1248	0	0	11124978	10666672	11333338
18	294759	1	13	55	1693	0	0	11420985	11333339	12000005
Total numl	ber of pulses in	waveform = 3	32							

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_16\_trail

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Waveform Num = 16 Num of Bursts = 19

Burst #	Off Time (us) 126037	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1		2	18	50	1415	1168	0	126037	0	631578
2	611916	2	9	95	1517	1499	0	740536	631579	1263157
3	644188	3	5	85	1805	1963	1669	1387740	1263158	1894736
4	971242	1	14	70	1153	0	0	2364419	1894737	2526315
	712656	2								
5	105765	2	5	70	1923	1377	0	3078228	2526316	3157894
6	989776	3	10	100	1001	1626	1555	3187293	3157895	3789473
7		3	16	65	1863	1909	1169	4181251	3789474	4421052
8	706766	1	11	100	1382	0	0	4892958	4421053	5052631
9	522912	3	14	100	1943	1625	1893	5417252	5052632	5684210
	651214									
10	721465	3	14	60	1097	1087	1036	6073927	5684211	6315789
11	238928	1	6	55	1605	0	0	6798612	6315790	6947368
12		3	9	90	1209	1727	1948	7039145	6947369	7578947
13	1008805	2	16	65	1131	1637	0	8052834	7578948	8210526
14	645031	2	12	85	1027	1852	0	8700633	8210527	8842105
	685026									
15	651628	1	18	100	1893	0	0	9388538	8842106	9473684
16	305898	1	5	100	1871	0	0	10042059	9473685	10105263
17		2	7	80	1317	1815	0	10349828	10105264	10736842
18	635882	3	10	100	1587	1048	1935	10988842	10736843	11368421
19	535238	3	14	95	1999	1934	1724	11528650	11368422	12000000
	r of pulses in	_		22	1777	. , , , ,	1127	11525050	11500-122	1200000

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_17\_trail

Waveform Num = 17 Num of Bursts = 12 Burst Interval (us)= 1000000

Burst #	Off Time (us) 391649	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1		2	10	85	1073	1961	0	391649	0	999999
2	1334336	2	19	90	1440	1167	0	1729019	1000000	1999999
3	619992	3	17	60	1087	1213	1497	2351618	2000000	2999999
4	657526	2	14	100	1634	1986	0	3012941	3000000	3999999
5	1605484	1	19	55	1940	0	0	4622045	4000000	4999999
6	492597	3	12	100	1367	1188	1762	5116582	5000000	5999999
7	1122559	1	19	90	1961	0	0	6243458	6000000	6999999
	1712067	2	14	70	1547	1342	0	7957486	7000000	
8	794003	2								7999999
9	371364	1	8	70	1825	0	0	8754378	8000000	8999999
10	1405127	3	13	70	1321	1689	1727	9127567	9000000	9999999
11	588240	2	17	65	1261	1947	0	10537431	10000000	10999999
12		2	10	95	1568	1200	0	11128879	11000000	11999999
lotal number	of pulses in v	vaveiorm = 24								

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_18\_trail

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Waveform Num = 18 Num of Bursts = 16

Burst #	Off Time (us) 171976	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1		3	20	90	1356	1819	1891	171976	0	749999
2	922192	3	7	95	1533	1040	1779	1099234	750000	1499999
3	845623	2	15	75	1905	1857	0	1949209	1500000	2249999
4	975692	3	14	70	1405	1532	1416	2928663	2250000	2999999
5	760746	1	14	75	1401	0	0	3693762	3000000	3749999
6	282237	3	5	70	1161	1804	1734	3977400	3750000	4499999
7	1159288	3	15	50	1086	1726	1685	5141387	4500000	5249999
8	360105	1	8	95	1725	0	0	5505989	5250000	5999999
9	805134	1	11	90	1668	0	0	6312848	6000000	6749999
10	1127279	1	8	80	1088	0	0	7441795	6750000	7499999
11	487261	1	6	70	1598	0	0	7930144	7500000	8249999
12	640035	3	13	65	1300	1461	1665	8571777	8250000	8999999
13	995077	3	8	95	1358	1201	1008		9000000	9749999
	417923							9571280		
14	731868	2	12	65	1662	1120	0	9992770	9750000	10499999
15	870477	3	17	90	1473	1007	1073	10727420	10500000	11249999
16 Total number	of pulses in	1 waveform = 34	15	90	1931	0	0	11601450	11250000	11999999
10.41 114.001	or parbob in									

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_19\_trail

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Waveform Num = 19 Num of Bursts = 18

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	555087	1	14	75	1405	0	0	555087	0	666666
2	531230	3	8	75	1260	1822	1235	1087722	666667	1333333
3	856110	3	7	75	1233	1009	1165	1948149	1333334	2000000
4	148747	3	11	100	1811	1068	1675	2100303	2000001	2666667
	984627									
5	504809	2	20	60	1249	1468	0	3089484	2666668	3333334
6	60.660n	3	13	65	1450	1640	1683	3597010	3333335	4000001
7	686689	2	18	85	1484	1307	0	4288472	4000002	4666668
8	574922	3	15	70	1381	1327	1617	4866185	4666669	5333335
9	579731	3	8	100	1283	1751	1762	5450241	5333336	6000002
10	967194	2	18	55	1215	1217	0	6422231	6000003	6666669
1.1	792760	1	5	100	1420	1225	0	2012402	6666670	7222226
11	594024	2	5	100	1420	1775	0	7217423	6666670	7333336
12	767962	1	12	100	1900	0	0	7814642	7333337	8000003
13		1	11	75	1965	0	0	8584504	8000004	8666670
14	345933	2	20	50	1412	1858	0	8932402	8666671	9333337
15	555608	1	10	100	1204	0	0	0401200	022220	10000004
15	644788	1	10	100	1204	U	U	9491280	9333338	10000004
16	819934	2	16	50	1814	1632	0	10137272	10000005	10666671
17		1	14	95	1222	0	0	10960652	10666672	11333338
18	774335	2	7	50	1891	1668	0	11736209	11333339	12000005
	ber of pulses in		-	- <del>-</del>		<b></b>	-		<del></del>	<b></b>

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_20\_trail

Waveform Num = 20 Num of Bursts = 13 Burst Interval (us)= 923077

Burst #	Off Time (us) 905174	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1		3	14	50	1601	1835	1021	905174	0	923076
2	41641 1269074	3	7	65	1964	1856	1202	951272	923077	1846153
3		1	13	95	1258	0	0	2225368	1846154	2769230
4	1421167	1	15	65	1872	0	0	3647793	2769231	3692307
5	964300	1	20	60	1003	0	0	4613965	3692308	4615384
6	353623 1234026	3	15	65	1166	1142	1025	4968591	4615385	5538461
7		3	7	100	1843	1870	1888	6205950	5538462	6461538
8	721322 946491	3	15	60	1768	1052	1034	6932873	6461539	7384615
9		3	8	55	1605	1018	1507	7883218	7384616	8307692
10	603271	3	17	100	1659	1660	1238	8490619	8307693	9230769
11	1602499	3	19	85	1418	1607	1037	10097675	9230770	10153846
12	356850 710848	1	18	55	1822	0	0	10458587	10153847	11076923
13 Total number	of pulses in w	2 vaveform = 30	8	55	1533	1550	0	11171257	11076924	12000000

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_21\_trail

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Waveform Num = 21Num of Bursts = 16

Burst #	Off Time (us) 438635	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	909258	1	17	55	1236	0	0	438635	0	749999
2		2	19	65	1702	1315	0	1349129	750000	1499999
3	655684	1	7	55	1424	0	0	2007830	1500000	2249999
4	726384	2	17	70	1866	1604	0	2735638	2250000	2999999
5	280928	2	10	55	1642	1190	0	3020036	3000000	3749999
6	731250	1	17	55	1970	0	0	3754118	3750000	4499999
7	928817	1	7	60	1352	0	0	4684905	4500000	5249999
8	1053480	1	18	95	1380	0	0	5739737	5250000	5999999
0	452686	1	10	9)	1300	U	U	2129121	3230000	2999999
9	724539	2	15	55	1266	1287	0	6193803	6000000	6749999
10		3	6	90	1037	1595	1852	6920895	6750000	7499999
11	1092790	3	8	55	1220	1739	1151	8018169	7500000	8249999
12	314758	2	7	100	1350	1561	0	8337037	8250000	8999999
12	743275		15	55				0002002	0000000	0740000
13	1265686	1	17	55	1953	0	0	9083223	9000000	9749999
14		3	11	50	1070	1695	1386	10350862	9750000	10499999
15	312781	2	8	80	1297	1309	0	10667794	10500000	11249999
16	833188	2	13	60	1004	1792	0	11503588	11250000	11999999
	er of pulses in									

 ${\tt Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_22\_trail}$ 

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Waveform Num = 22 Num of Bursts = 11 Burst Interval (us)= 1090909

Burst #	Off Time (us) 338977	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1		3	12	75	1478	1193	1170	338977	0	1090908
2	771194	2	17	55	1644	1854	0	1114012	1090909	2181817
3	1438273	1	12	80	1456	0	0	2555783	2181818	3272726
4	1648575	2	13	75	1898	1970	0	4205814	3272727	4363635
5	663672	3	9	70	1367	1439	1191	4873354	4363636	5454544
6	1120125	3	15	95	1354	1236	1834	5997476	5454545	6545453
7	891005	2	18	70	1489	1380	0	6892905	6545454	7636362
8	778619	2	15	65	1617	1633	0	7674393	7636363	8727271
9	1385775	3	16	100	1433	1731	1467	9063418	8727272	9818180
10	1321657	3	15	95	1988	1236	1267	10389706	9818181	10909089
11	956807	2	19	95	1225	1032	0	11351004	10909090	11999998
Total number	of pulses in w	waveform = 26								

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_23\_trail

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Waveform Num = 23
Num of Bursts = 18

Burst #	Off Time (us) 558641	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1		3	5	55	1168	1457	1247	558641	0	666666
2	623993	2	11	60	1798	1225	0	1186506	666667	1333333
3	643199	1	9	55	1343	0	0	1832728	1333334	2000000
4	511424	2	5	65	1593	1295	0	2345495	2000001	2666667
5	807944	1	10	100	1798	0	0	3156327	2666668	3333334
	456805									
6	620335	2	18	60	1287	1363	0	3614930	3333335	4000001
7	612802	2	14	90	1200	1151	0	4237915	4000002	4666668
8		1	5	80	1547	0	0	4853068	4666669	5333335
9	1110345	2	14	100	1110	1906	0	5964960	5333336	6000002
10	577453	3	8	85	1947	1502	1224	6545429	6000003	6666669
11	435216	3	11	65	1366	1069	1859	6985318	6666670	7333336
	916135									
12	712700	2	14	55	1304	1005	0	7905747	7333337	8000003
13	661514	3	19	80	1251	1758	1197	8620756	8000004	8666670
14		3	16	60	1233	1064	1331	9286476	8666671	9333337
15	235655	3	6	90	1185	1639	1380	9525759	9333338	10000004
16	689767	3	9	100	1614	1294	1900	10219730	10000005	10666671
	916219									
17	330866	3	7	50	1132	1904	1140	11140757	10666672	11333338
18		1	20	70	1840	0	0	11475799	11333339	12000005
TO CAT TITINGE	of pulses in	waselolM = 2	10							

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_24\_trail

Waveform Num = 24

Num of Bursts = 20

Purst Internal (us)

Burst Interval (us)= 600000

	(,									
Burst #	Off Time (us) 36927	# Pulses	Chirp (MHz)	P₩ (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1		2	9	90	1562	1815	0	36927	0	599999
2	813892 478769	1	7	80	1635	0	0	854196	600000	1199999
3		1	9	90	1459	0	0	1334600	1200000	1799999
4	583437	2	8	55	1134	1266	0	1919496	1800000	2399999
5	996297	2	9	95	1603	1681	0	2918193	2400000	2999999
	395750									
6	321665	2	17	70	1348	1681	0	3317227	3000000	3599999
7	766143	2	18	95	1233	1827	0	3641921	3600000	4199999
8	967096	3	10	80	1363	1012	1162	4411124	4200000	4799999
9		1	15	80	1412	0	0	5381757	4800000	5399999
10	490047	3	14	70	1392	1554	1402	5873216	5400000	5999999
11	148565	3	15	70	1771	1263	1558	6026129	6000000	6599999
12	756170	2	5	75	1941	1058	0	6786891	6600000	7199999
13	751934	1	10	100			0			
	721061	1	12		1414	0	U	7541824	7200000	7799999
14	442773	2	8	60	1848	1714	0	8264299	7800000	8399999
15	602740	3	15	60	1003	1165	1541	8710634	8400000	8999999
16		1	13	100	1010	0	0	9317083	9000000	9599999
17	394123	2	7	90	1178	1254	0	9712216	9600000	10199999
18	932718	2	16	75	1942	1828	0	10647366	10200000	10799999
	312946									
19	980069	2	12	85	1818	1406	0	10964082	10800000	11399999
20 Total numb	er of pulses in	2 . waxeform = 3	13	85	1344	1488	0	11947375	11400000	11999999
TO CAT THUNKS	er or barses in	r wassioim = 3	/2							

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_25\_trail

Waveform Num = 25 Num of Bursts = 14 Burst Interval (us)= 857143

Burst #	Off Time (us) 129744	# Pulses	-	P₩ (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	1319083	2	9	100	1348	1078	0	129744	0	857142
2		1	6	60	1052	0	0	1451253	857143	1714285
3	264712	2	10	80	1276	1388	0	1717017	1714286	2571428
4	1501554	3	12	95	1707	1996	1360	3221235	2571429	3428571
5	234469	2	6	85	1789	1353	0	3460767	3428572	4285714
6	1281541	3	9	95	1363	1097	1776	4745450	4285715	5142857
7	507528	2	14	70	1602	1065	0	5257214	5142858	6000000
8	1112567	3	20	100	1943	1108	1683	6372448	6000001	6857143
9	860708	3	15	60	1894	1487	1916	7237890	6857144	7714286
10	975609	1	11	100	1404	0	0	8218796	7714287	8571429
11	629672	1	20	95	1509	0	0	8849872	8571430	9428572
12	1148729	1	14	70	1898	0	0	10000110	9428573	10285715
13	483319	1	14	60	1159	0	0	10485327	10285716	11142858
	985525	1								
14 Total number	of pulses in v	2 vaveform = 27	13	60	1363	1131	0	11472011	11142859	12000001

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_26\_trail

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Waveform Num = 26 Num of Bursts = 20

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	P₩ (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
π	580397	ruises	(MILZ)	(45)	FII(ds)	rii(us)	F11(d5)	(us)	intervar(us)	interval(us)
1	200042	1	20	70	1427	0	0	580397	0	599999
2	209943	2	12	55	1158	1980	0	791767	600000	1199999
3	964764	1	20	55	1518	0	0	1759669	1200000	1799999
4	246454	3	6	95	1501	1632	1891	2007641	1800000	2399999
	428541		Ů		1501			2007041	1000000	2377777
5	610694	3	7	65	1663	1449	1096	2441206	2400000	2999999
6		2	6	100	1301	1961	0	3056108	3000000	3599999
7	892941	1	5	85	1520	0	0	3952311	3600000	4199999
8	711631	1	20	65	1341	0	0	4665462	4200000	4799999
9	335240	1	12	100	1009	0	0	5002043	4800000	5399999
10	888986	2	12	65	1512	1179	0	5892038	5400000	5999999
11	189073	3	18	90	1043	1177	1430	6083802	6000000	6599999
10	726088		20	00	1101			(012540		7100000
12	755530	1	20	90	1101	0	0	6813540	6600000	7199999
13	502510	1	10	75	1390	0	0	7570171	7200000	7799999
14	593519	2	5	90	1428	1976	0	8165080	7800000	8399999
15	464016	2	6	75	1775	1472	0	8632500	8400000	8999999
	674645									
16	572104	3	13	50	1013	1758	1403	9310392	9000000	9599999
17		3	13	80	1696	1708	1619	9886670	9600000	10199999
18	530518	3	6	90	1634	1969	1923	10422211	10200000	10799999
	903543									
19	356156	2	9	70	1168	1933	0	11331280	10800000	11399999
20		1	18	75	1568	0	0	11690537	11400000	11999999
Total numb	er of pulses in	n waveform = 3	88							

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_27\_trail

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Waveform Num = 27 Num of Bursts = 17

Burst #	Off Time (us) 200231	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1		2	14	95	1288	1020	0	200231	0	705881
2	1136326	1	9	75	1783	0	0	1338865	705882	1411763
3	71938	3	6	80	1289	1668	1458	1412586	1411764	2117645
4	1322286	2	12	70	1422	1908	0	2739287	2117646	2823527
5	122261	1	16	100	1014	0	0	2864878	2823528	3529409
6	1067731	1	17	95	1051	0	0	3933623	3529410	4235291
7	593729	3	20	70	1002	1499	1109	4528403	4235292	4941173
8	461228	3	18	75	1356	1848	1154	4993241	4941174	5647055
9	781494	1	16	70	1047	0	0	5779093	5647056	6352937
	590172									
10	1375551	2	13	90	1987	1381	0	6370312	6352938	7058819
11	684426	3	17	80	1845	1222	1128	7749231	7058820	7764701
12	75305	2	8	60	1444	1030	0	8437852	7764702	8470583
13		2	9	65	1557	1404	0	8515631	8470584	9176465
14	855972	2	13	55	1298	1819	0	9374564	9176466	9882347
15	594498	1	19	55	1995	0	0	9972179	9882348	10588229
16	1127644	2	17	85	1538	1311	0	11101818	10588230	11294111
17	301657	2	18	90	1645	1226	0	11406324	11294112	11999993
	of pulses in v						-			

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_28\_trail

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Waveform Num = 28 Num of Bursts = 11 Burst Interval (us)= 1090909

Burst #	Off Time (us) 981995	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1		1	13	80	1397	0	0	981995	0	1090908
2	293754	1	20	100	1735	0	0	1277146	1090909	2181817
3	1869831	3	13	70	1032	1779	1351	3148712	2181818	3272726
4	363647	2	12	90	1438	1702	0	3516521	3272727	4363635
5	1770476	1	14	85	1533	0	0	5290137	4363636	5454544
6	427149	3	19	90	1408	1211	1998	5718819	5454545	6545453
7	1731085	1	9	65	1814	0	0	7454521	6545454	7636362
8	640357	1	19	85	1863	0	0	8096692	7636363	8727271
9	1118660	2	16	65	1178	1679	0	9217215	8727272	9818180
	1642741									
10	948886	3	15	70	1899	1594	1856	10862813	9818181	10909089
11 Total number	of pulses in w	1 vaveform = 19	12	75	1437	0	0	11817048	10909090	11999998

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_29\_trail

Waveform Num = 29 Num of Bursts = 18

Burst Interval (us)= 666667

	, ,									
Burst #	Off Time (us) 66890	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1		2	12	95	1641	1179	0	66890	0	666666
2	927359	3	8	95	1248	1202	1364	997069	666667	1333333
3	593849	1	6	50	1048	0	0	1594732	1333334	2000000
4	956770	1	9	80	1044	0	0	2552550	2000001	2666667
5	294117	1	15	80	1070	0	0	2847711	2666668	3333334
6	769614	1	14	50	1679	0	0	3618395	3333335	4000001
7	707391	1	20	70	1792	0	0	4327465	4000002	4666668
8	576671	1	18	90	1019	0	0	4905928	4666669	5333335
9	563655	2	11	90	1286	1996	0	5470602	5333336	6000002
10	956288	2	6	75	1553	1418	0	6430172	6000003	6666669
11	555934	3	19	70	1713	1058	1739	6989077	6666670	7333336
12	441419	1	10	60	1251	0	0	7435006	7333337	8000003
13	839754	1	17	50	1960	0	0	8276011	8000004	8666670
14	625657	1	16	50	1319	0	0	8903628	8666671	9333337
15	583745	2	17	65	1662	1948	0	9488692	9333338	10000004
16	904721	2	14	95	1566	1594	0	10397023	10000005	10666671
	774715	1								
17	546626	1	12	95	1535	0	0	11174898	10666672	11333338
18 Total numb	ber of pulses in	l a waveform = 2	17 27	90	1492	0	0	11723059	11333339	12000005

Statistical\_Check\_RandParm\_For\_Radar\_Type\_5\_30\_trail

Waveform Num = 30 Num of Bursts = 15 Burst Interval (us)= 800000

Total number of pulses in waveform = 33

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Burst #	Off Time (us) 790560	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1		1	12	80	1934	0	0	790560	0	799999
2	563514	2	10	60	1132	1509	0	1356008	800000	1599999
3	352454	2	6	65	1413	1327	0	1711103	1600000	2399999
4	1076644	3	18	55	1916	1235	1046	2790487	2400000	3199999
5	915214	3	18	65	1786	1093	1618	3709898	3200000	3999999
6	1034578	3	8	75	1757	1990	1318	4748973	4000000	4799999
7	556035	1	10	90	1605	0	0	5310073	4800000	5599999
8	437360	3	16	65	1719	1882	1064	5749038	5600000	6399999
9	1378945	3	13	65	1141	1898	1220	7132648	6400000	7199999
10	406201	2	15	85	1707	1233	0	7543108	7200000	7999999
	1008335									
11	630361	3	16	85	1370	1903	1322	8554383	8000000	8799999
12		2	19	60	1439	1615	0	9189339	8800000	9599999
13	874500	1	8	90	1320	0	0	10066893	9600000	10399999
14	907161	1	13	80	1932	0	0	10975374	10400000	11199999
15	338533	3	12	75	1604	1954	1974	11315839	11200000	11999999



Product : Full HD Video Wireless Receiver Module

Test Item : Statistical Performance Check

Radar Type : Type 6

Test Mode : Mode 1: Transmit –5310MHz

Trial	Frequency	*Filename	1= Detection
#	(MHz)	riiename	0= No Detection
1	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_1_trail	1
2	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_2_trail	1
3	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_3_trail	1
4	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_4_trail	1
5	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_5_trail	1
6	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_6_trail	1
7	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_7_trail	1
8	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_8_trail	1
9	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_9_trail	1
10	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_10_trail	1
11	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_11_trail	1
12	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_12_trail	1
13	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_13_trail	1
14	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_14_trail	1
15	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_15_trail	1
16	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_16_trail	1
17	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_17_trail	1
18	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_18_trail	1
19	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_19_trail	1
20	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_20_trail	1
21	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_21_trail	1
22	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_22_trail	1
23	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_23_trail	1
24	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_24_trail	1
25	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_25_trail	1
26	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_26_trail	1
27	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_27_trail	1
28	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_28_trail	1
29	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_29_trail	1
30	5310	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_30_trail	1
		Detection Percentage (%)	100

\*\*\*Yes\*\*\*

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Product : Full HD Video Wireless Receiver Module

Test Item : Statistical Performance Check

Radar Type : Type 6

Test Mode : Mode 1: Transmit –5550MHz

Trial	Frequency	*Filename	1= Detection
#	(MHz)	Filerianie	0= No Detection
1	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_1_trail	1
2	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_2_trail	1
3	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_3_trail	1
4	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_4_trail	1
5	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_5_trail	1
6	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_6_trail	1
7	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_7_trail	1
8	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_8_trail	1
9	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_9_trail	1
10	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_10_trail	1
11	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_11_trail	1
12	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_12_trail	1
13	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_13_trail	1
14	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_14_trail	1
15	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_15_trail	1
16	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_16_trail	1
17	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_17_trail	1
18	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_18_trail	1
19	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_19_trail	1
20	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_20_trail	1
21	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_21_trail	1
22	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_22_trail	1
23	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_23_trail	1
24	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_24_trail	1
25	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_25_trail	1
26	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_26_trail	1
27	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_27_trail	1
28	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_28_trail	1
29	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_29_trail	1
30	5550	Statistical_Check_Hopping Frequency List_For_Radar_Type_6_30_trail	1
Detection Percentage (%)			100

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## 8. DFS Test Setup Photo

**Full DFS Test Setup Photo** 

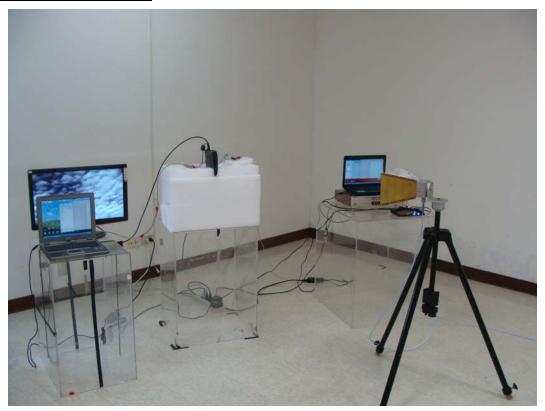


DFS Set-up Photo: Spectrum Analyzer, EUT and Radar Generator





## **DFS Set-up Photo: Master**



## DFS Set-up Photo: Slave

