



# DFS TEST REPORT

**REPORT NO.:** RF970123L04-5  
**MODEL NO.:** MC7596  
**RECEIVED:** Jan. 23, 2008  
**TESTED:** Feb. 21 ~ Feb. 27, 2008  
**ISSUED:** Feb. 27, 2008

**APPLICANT:** Symbol Technologies, Inc.

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**ISSUED BY:** Advance Data Technology Corporation

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## 1. LAB DECLARATION

**PRODUCT:** EDA (Enterprise Digital Assistant)  
**BRAND NAME:** Symbol  
**MODEL NO.:** MC7596  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**TESTED:** Feb. 21 ~ Feb. 27, 2008  
**APPLICANT:** Symbol Technologies, Inc.  
**STANDARDS:** FCC Part 15, Subpart E (Section 15.407)  
FCC 06-96

The above equipment (Model: MC7596) has been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**PREPARED BY :** Peggy Chen, **DATE:** Feb. 27, 2008  
Peggy Chen / Specialist

**TECHNICAL  
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**APPROVED BY :** Gary Chang, **DATE:** Feb. 27, 2008  
Gary Chang / Assistant Manager



## 2. EUT INFORMATION

### 2.1 OPERATING FREQUENCY BANDS AND MODE OF EUT

Table 1: Operating frequency bands and mode of EUT.

Operational Mode	Operating Frequency Range	
	5250~5350MHz	5470~5725MHz
Client without radar detection and Ad hoc mode	✓	✓

### 2.2 EUT SOFTWARE AND FIRMWARE VERSION

Table 2: The EUT software/firmware version.

No.	Product	Model No.	Software/Firmware Version
1	EDA (Enterprise Digital Assistant)	MC7596	Software: BSP_16

### 2.3 DESCRIPTION OF AVAILABLE ANTENNAS TO THE EUT

Table 3: Antenna list.

ANTENNA TYPE(S)	Inverted F antenna Planar inverted antenna
MAX. ANTENNA GAIN	3.5dBi



## 2.4 EUT MAXIMUM AND MINIMUM CONDUCTED POWER

**Table 4: The measured conducted output power.**

**IEEE 802.11A**

Frequency Band(MHz)	MAX. Power		MIN. Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350MHz	12.24	16.75	5.91	3.90
5470~5725MHz	14.28	26.79	2.20	1.66



## 2.5 EUT MAXIMUM AND MINIMUM E.I.R.P. POWER

Table 5: The E.I.R.P output power list.

### IEEE 802.11A

Frequency Band(MHz)	MAX. Power		MIN. Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350MHz	15.74	37.50	9.41	8.73
5470~5725MHz	17.78	59.98	5.70	3.72

## 2.6 STATEMENT OF MANUFACTURER

Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user. **And the device doesn't have Ad Hoc mode on DFS frequency band.**



### 3. NII DFS RULE REQUIREMENTS

#### 3.1 WORKING MODES AND REQUIRED TEST ITEMS

The manufacturer shall state whether the UUT is capable of operating as a Master and/or a Client. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables 1 and 2 for the applicability of DFS requirements for each of the operational modes.

**Table 6: Applicability of DFS requirements prior to use a channel**

Requirement	Operational Mode		
	Master	Client without radar detection	Client with radar detection
Non-Occupancy Period	✓	Not required	✓
DFS Detection Threshold	✓	Not required	✓
Channel Availability Check Time	✓	Not required	Not required
Uniform Spreading	✓	Not required	Not required
U-NII Detection Bandwidth	✓	Not required	✓

**Table 7: Applicability of DFS requirements during normal operation.**

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



## 3.2 TEST LIMITS AND RADAR SIGNAL PARAMETERS

### DETECTION THRESHOLD VALUES

**Table 8: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection.**

Maximum Transmit Power	Value (See Notes 1 and 2)
≥ 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.

**Table 9: DFS Response Requirement Values**

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 80% of the UNII 99% transmission power bandwidth. See Note 3.

**Note 1:** 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 second period defining the Radar Waveform.

**Note 2:** The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

**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 percent. Measurements are performed with no data traffic.



## **PARAMETERS OF DFS TEST SIGNALS**

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.

**Table 10: Short Pulse Radar Test Waveforms.**

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
1	1	1428	18	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

**Table 11: Long Pulse Radar Test Waveform**

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

**Table 12: Frequency Hopping Radar Test Waveform**

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



## 4. TEST & SUPPORT EQUIPMENT LIST

### 4.1 TEST INSTRUMENTS

Table 1: Test instruments list.

DESCRIPTION & MANUFACTURER	MODEL NO.	BRAND	CALIBRATED UNTIL
R&S Spectrum analyzer	FSP40	R&S	Jun. 28, 2008
Signal generator	8645A	Agilent	May 27, 2008
Oscilloscope	TDS 5104	Tektronix	Aug. 30. 2008

### 4.2 DESCRIPTION OF SUPPORT UNITS

Table 2: Support Unit information.

No.	Product	Brand	Model No.	FCC ID	Spec.
1	802.11a/b/g Access Point	Cisco	AIR-AP1242 AG-A-K9	LDK102056	

Note: This device was functioned as a Master Slave device during the DFS test.

Table 3: Software/Firmware information.

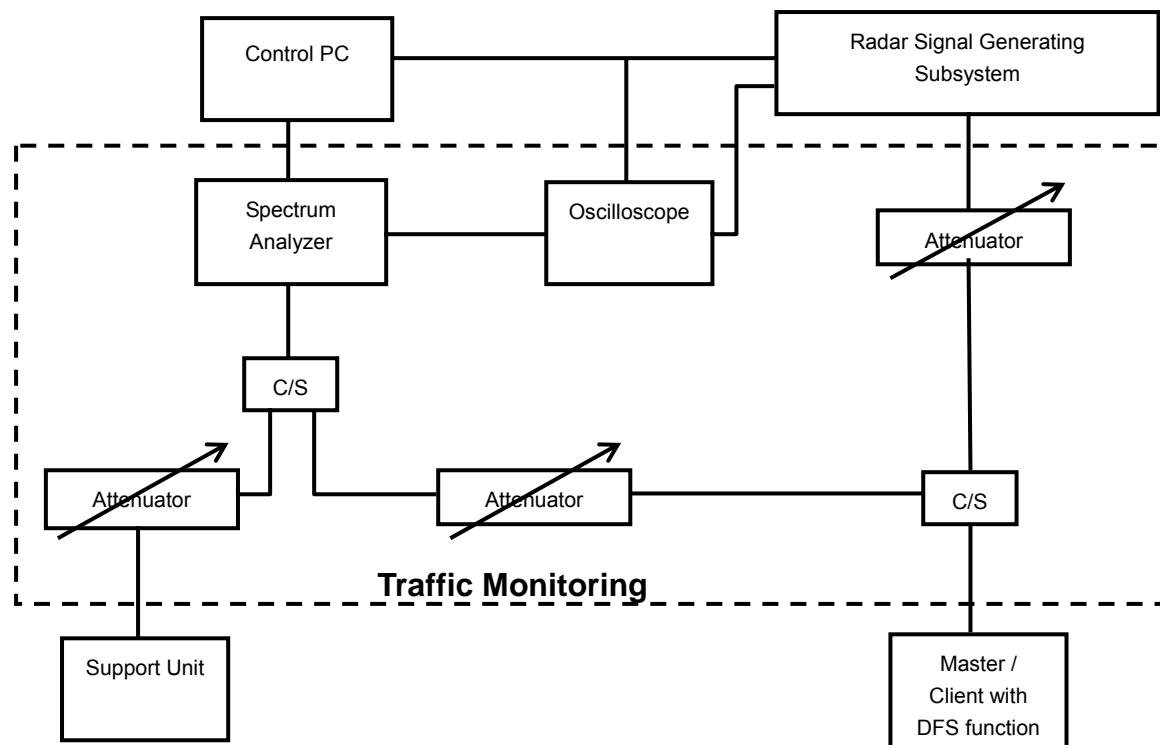
No.	Product	Model No.	Software/Firmware Version
1.	802.11a/b/g Access Point	AIR-AP1242AG-A-K9	C1240-K9W7-TAR.123-8.JEA

## 5. TEST PROCEDURE

### 5.1 ADT DFS MEASUREMENT SYSTEM:

A complete ADT DFS Measurement System consists of two subsystems: (1) the Radar Signal Generating Subsystem and (2) the Traffic Monitoring Subsystem. The control PC is necessary for generating the Radar waveforms in Table 6, 7 and 8. The traffic monitoring subsystem is specified to the type of unit under test (UUT).

#### Conducted setup configuration of ADT DFS Measurement System



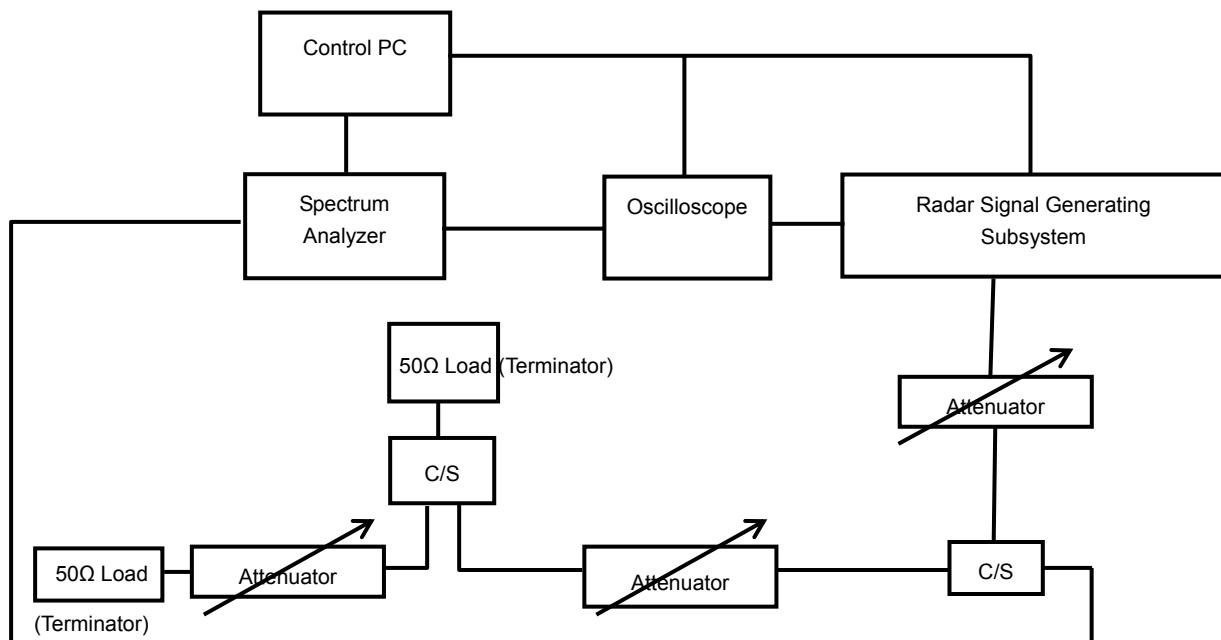
The test transmission will always be from the Master Device to the Client Device. While the Client device is set up to associate with the Master device and play the MPEG file ( $6 \frac{1}{2}$  Magic Hours) from Master device, the designated MPEG test file and instructions are located at:

<http://ntiacsd.ntia.doc.gov/dfs/>.

## 5.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL:

The measured channel is 5500MHz. The radar signal was the same as transmitted channels, and injected into the antenna port of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time. The Cisco Master antenna gain is 3dBi and required detection threshold is -58dBm (= -62 +1+3)dBm. The calibrated conducted detection threshold level is set to -59dBm. The tested level is lower than required level hence it provides margin to the limit.

### Conducted setup configuration of Calibration of DFS Detection Threshold Level

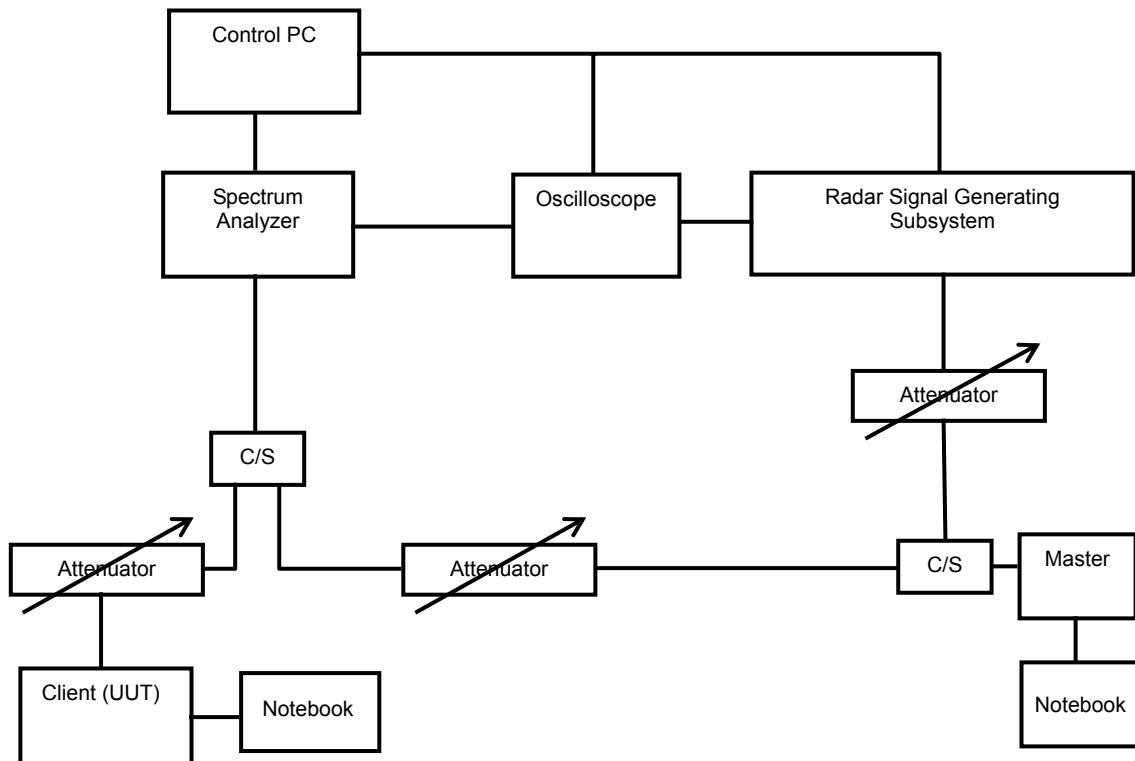


### 5.3 DEVIATION FROM TEST STANDARD

No deviation.

### 5.4 CONDUCTED TEST SETUP CONFIGURATION

#### 5.4.1 CLIENT WITHOUT RADAR DETECTION MODE



The UUT is a U-NII Device operating in Client mode without radar detection. The radar test signals are injected into the Master Device.



## 6. TEST RESULTS

### 6.1 SUMMARY OF TEST RESULT

Clause	Test Parameter	Remarks	Pass/Fail
15.407	DFS Detection Threshold	Not Applicable	NA
15.407	Channel Availability Check Time	Not Applicable	NA
15.407	Channel Move Time	Applicable	Pass
15.407	Channel Closing Transmission Time	Applicable	Pass
15.407	Non- Occupancy Period	Not Applicable	Pass
15.407	Uniform Spreading	Not Applicable	NA
15.407	U-NII Detection Bandwidth	Not Applicable	NA

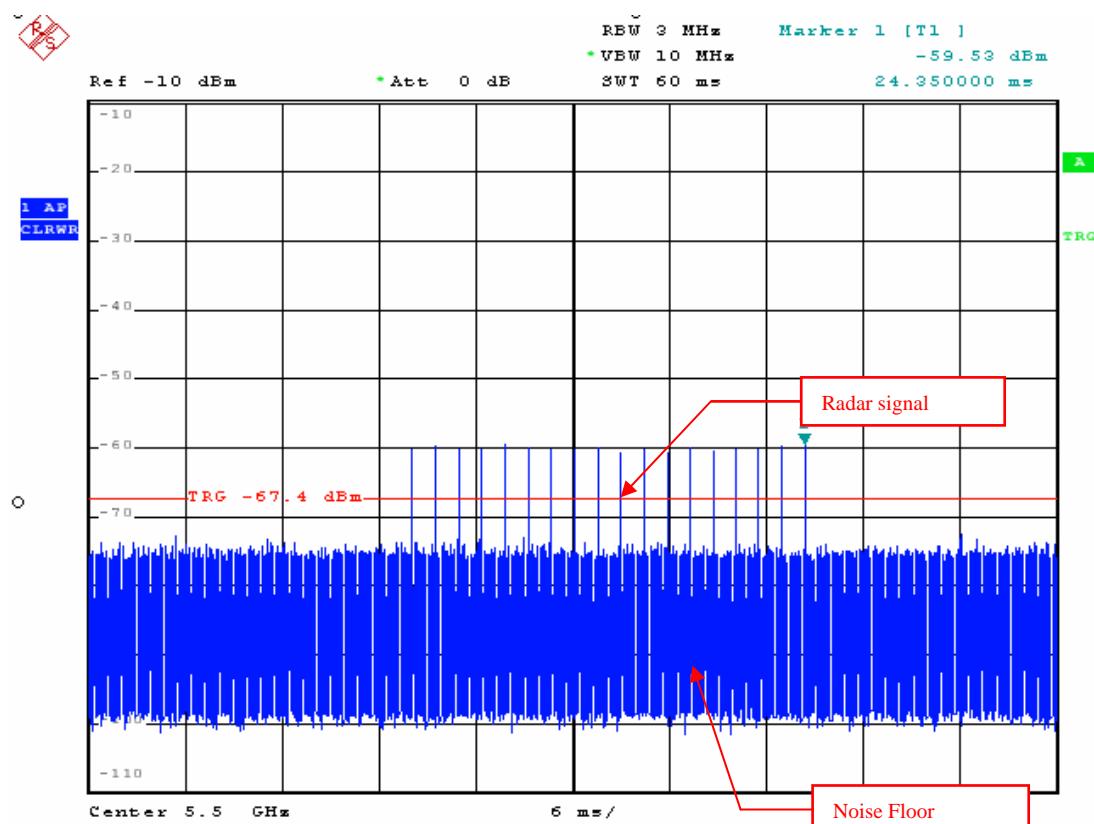
## 6.2 DETELED TEST RESULTS

### 6.2.1 TEST MODE: DEVICE OPERATING IN CLIENT WITHOUT RADAR DETECTION MODE.

**Client with injection at the Master. (The radar test signals are injected into the Master Device.)**

#### 6.2.1.1 DFS DETECTION THRESHOLD

For a detection threshold level of -62dBm and the Cisco Master antenna gain is 3dBi. The Required detection threshold is -58dBm (= -62 +1+3)dBm. The conducted radar burst level is set to -59dBm. The tested level is lower than required level hence it provides margin to the limit.



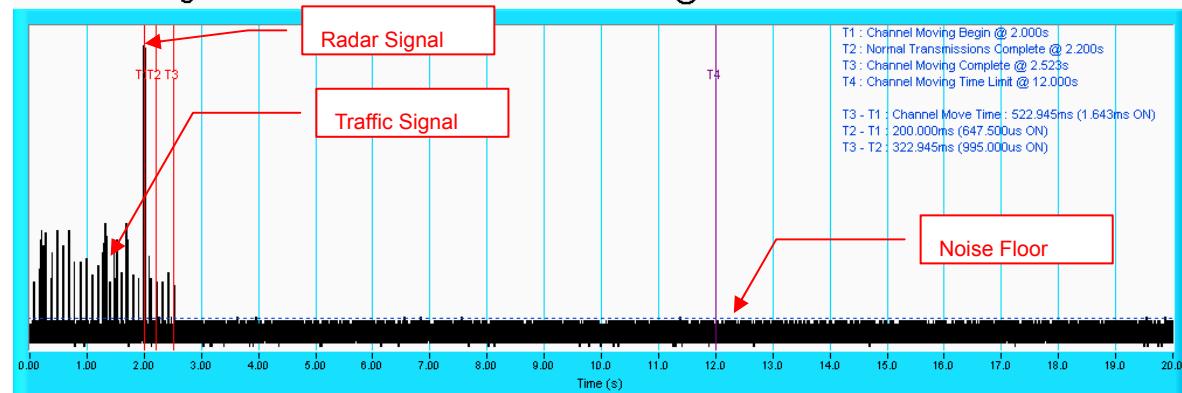
Radar Signal 1

### 6.2.1.2 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME

#### Radar signal 1

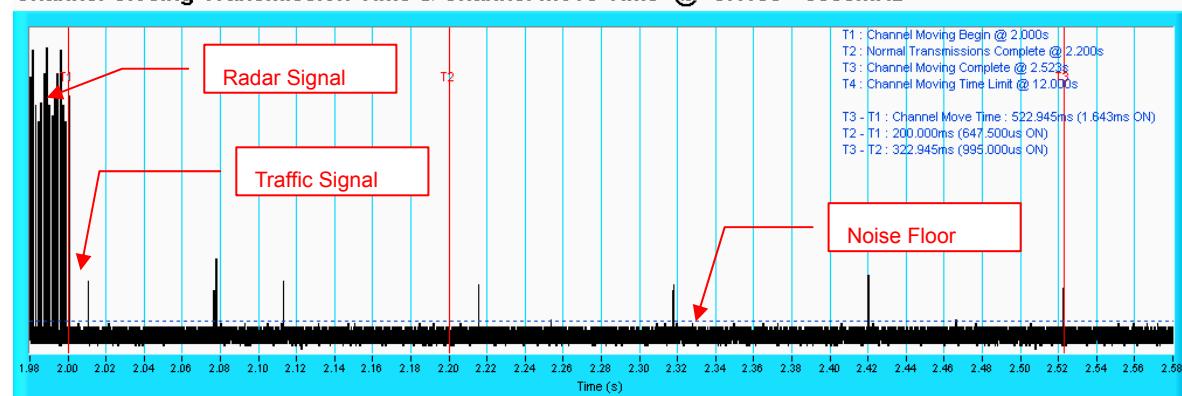
##### IEEE 802.11A

Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



**NOTE:** An expanded plot for the device vacates the channel in the required 200ms.



## IEEE 802.11A

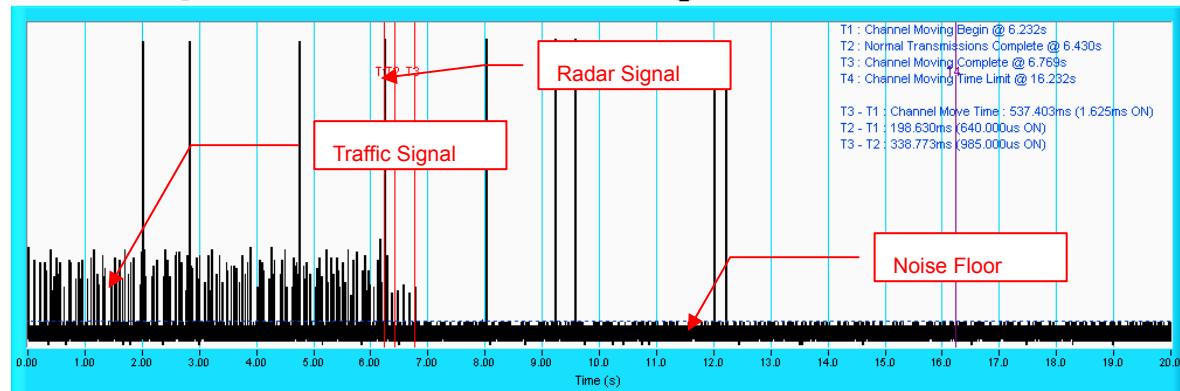
Type 1 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	18	1.0u	1.428m	Yes
2	18	1.0u	1.428m	Yes
3	18	1.0u	1.428m	Yes
4	18	1.0u	1.428m	Yes
5	18	1.0u	1.428m	Yes
6	18	1.0u	1.428m	Yes
7	18	1.0u	1.428m	Yes
8	18	1.0u	1.428m	Yes
9	18	1.0u	1.428m	Yes
10	18	1.0u	1.428m	Yes
11	18	1.0u	1.428m	Yes
12	18	1.0u	1.428m	Yes
13	18	1.0u	1.428m	No
14	18	1.0u	1.428m	No
15	18	1.0u	1.428m	No
16	18	1.0u	1.428m	Yes
17	18	1.0u	1.428m	Yes
18	18	1.0u	1.428m	Yes
19	18	1.0u	1.428m	Yes
20	18	1.0u	1.428m	Yes
21	18	1.0u	1.428m	Yes
22	18	1.0u	1.428m	Yes
23	18	1.0u	1.428m	Yes
24	18	1.0u	1.428m	Yes
25	18	1.0u	1.428m	No
26	18	1.0u	1.428m	Yes
27	18	1.0u	1.428m	Yes
28	18	1.0u	1.428m	Yes
29	18	1.0u	1.428m	Yes
30	18	1.0u	1.428m	Yes

Detection Rate: 86.7 %

## Radar signal 5

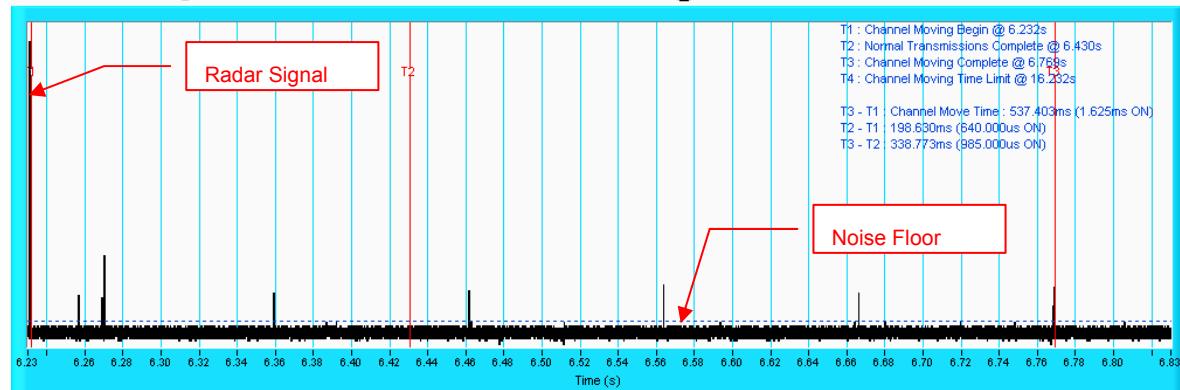
### IEEE 802.11A

Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



**NOTE:** An expanded plot for the device vacates the channel in the required 200ms.



### Type 5 Radar Statistical Performances

Trial #	Test Signal Name	Detection
1	LP_Signal_01	Yes
2	LP_Signal_02	Yes
3	LP_Signal_03	Yes
4	LP_Signal_04	No
5	LP_Signal_05	Yes
6	LP_Signal_06	Yes
7	LP_Signal_07	No
8	LP_Signal_08	Yes
9	LP_Signal_09	Yes
10	LP_Signal_10	Yes
11	LP_Signal_11	Yes
12	LP_Signal_12	Yes
13	LP_Signal_13	Yes
14	LP_Signal_14	Yes
15	LP_Signal_15	No
16	LP_Signal_16	Yes
17	LP_Signal_17	Yes
18	LP_Signal_18	Yes
19	LP_Signal_19	Yes
20	LP_Signal_20	Yes
21	LP_Signal_21	Yes
22	LP_Signal_22	Yes
23	LP_Signal_23	Yes
24	LP_Signal_24	Yes
25	LP_Signal_25	Yes
26	LP_Signal_26	Yes
27	LP_Signal_27	Yes
28	LP_Signal_28	No
29	LP_Signal_29	No
30	LP_Signal_30	Yes

Detection Rate: 83.3 %

**Long Pulse Radar Test Signal****Test Signal Name: LP\_Signal\_01****Number of Bursts in Trial: 11**

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	5M	93.3u	1.655m	-	669.1m
2	3	20M	61.2u	1.270m	1.269m	842.6m
3	2	9M	94.2u	1.537m	-	42.04m
4	1	20M	80.3u	-	-	589.2m
5	3	12M	63.6u	1.414m	1.458m	1.009
6	2	12M	98.8u	1.159m	-	85.69m
7	3	20M	68.5u	1.903m	1.502m	71.23m
8	2	8M	75.0u	989.0u	-	254.5m
9	3	16M	54.4u	1.742m	984.6u	359.8m
10	3	7M	51.5u	973.5u	1.351m	239.1m
11	2	18M	97.5u	1.607m	-	358.2m

**Long Pulse Radar Test Signal****Test Signal Name: LP\_Signal\_02****Number of Bursts in Trial: 10**

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	1	5M	93.1u	-	-	772.1m
2	2	13M	90.0u	1.290m	-	509.8m
3	2	12M	55.1u	1.940m	-	1.188
4	2	14M	87.1u	1.760m	-	831.3m
5	2	19M	62.3u	1.337m	-	621.0m
6	2	9M	86.4u	1.285m	-	534.9m
7	2	17M	74.9u	1.533m	-	736.3m
8	2	20M	55.9u	1.484m	-	930.7m
9	1	11M	90.1u	-	-	687.9m
10	2	13M	71.2u	1.301m	-	390.0m



Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_03

Number of Bursts in Trial: 14

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	6M	53.0u	1.269m	-	742.0m
2	1	12M	76.1u	-	-	817.3m
3	1	6M	50.8u	-	-	381.2m
4	3	12M	78.1u	1.227m	1.617m	679.9m
5	2	16M	61.5u	1.368m	-	98.39m
6	1	6M	64.2u	-	-	217.6m
7	3	20M	73.6u	1.846m	1.903m	398.9m
8	2	19M	64.3u	1.314m	-	843.7m
9	1	18M	54.5u	-	-	165.7m
10	2	17M	85.4u	1.608m	-	588.2m
11	3	19M	77.5u	1.823m	1.698m	128.0m
12	2	18M	57.3u	1.535m	-	571.7m
13	3	11M	87.7u	1.280m	1.126m	477.2m
14	3	19M	75.0u	1.259m	1.191m	64.40m



Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_04

Number of Bursts in Trial: 20

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	19M	69.0u	1.800m	-	485.1m
2	1	12M	56.2u	-	-	133.5m
3	2	20M	58.9u	1.766m	-	228.3m
4	2	12M	76.3u	1.158m	-	435.5m
5	3	11M	90.7u	1.564m	1.374m	270.5m
6	2	9M	95.7u	1.879m	-	584.7m
7	3	15M	74.4u	943.6u	1.836m	224.1m
8	1	15M	66.4u	-	-	461.3m
9	2	17M	91.2u	1.302m	-	507.0m
10	3	7M	53.5u	1.009m	1.359m	531.1m
11	2	13M	77.2u	947.8u	-	365.9m
12	2	8M	78.4u	977.6u	-	325.4m
13	3	7M	77.1u	1.553m	1.719m	515.3m
14	1	8M	67.4u	-	-	205.4m
15	1	8M	56.7u	-	-	291.6m
16	2	6M	57.6u	1.798m	-	433.5m
17	2	12M	76.2u	1.818m	-	210.3m
18	3	9M	57.2u	1.119m	1.529m	271.2m
19	3	8M	66.8u	1.433m	1.019m	300.3m
20	2	8M	81.0u	1.213m	-	325.7m



Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_05

Number of Bursts in Trial: 14

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	20M	94.0u	1.145m	1.427m	651.8m
2	3	11M	90.3u	929.7u	1.836m	790.2m
3	2	5M	56.5u	1.481m	-	315.6m
4	1	14M	88.2u	-	-	246.8m
5	2	16M	57.9u	1.935m	-	532.5m
6	2	20M	81.5u	1.540m	-	107.8m
7	3	20M	86.9u	1.136m	1.426m	410.9m
8	3	15M	92.1u	1.624m	1.493m	106.4m
9	1	20M	51.6u	-	-	112.6m
10	2	14M	95.0u	1.709m	-	70.08m
11	2	11M	86.4u	1.292m	-	497.6m
12	2	15M	61.5u	1.213m	-	35.26m
13	3	9M	67.9u	1.556m	1.589m	137.9m
14	2	12M	92.8u	1.775m	-	773.1m

**Long Pulse Radar Test Signal****Test Signal Name: LP\_Signal\_06****Number of Bursts in Trial: 10**

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	11M	68.6u	1.554m	-	100.4m
2	3	16M	87.5u	1.279m	1.211m	1.068
3	1	9M	65.0u	-	-	1.195
4	2	9M	56.7u	1.902m	-	263.3m
5	3	9M	57.7u	1.088m	1.862m	45.23m
6	3	16M	93.1u	1.264m	1.837m	632.0m
7	2	15M	63.0u	1.532m	-	434.9m
8	2	7M	90.9u	1.437m	-	605.9m
9	3	10M	83.6u	1.617m	1.393m	1.079
10	2	10M	94.5u	1.482m	-	600.7m

**Long Pulse Radar Test Signal****Test Signal Name: LP\_Signal\_07****Number of Bursts in Trial: 13**

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	7M	89.9u	1.903m	-	582.0m
2	2	18M	57.2u	1.757m	-	321.4m
3	2	7M	74.5u	1.816m	-	223.0m
4	1	9M	67.7u	-	-	522.1m
5	1	19M	99.1u	-	-	572.0m
6	2	5M	51.4u	1.762m	-	850.6m
7	1	7M	86.8u	-	-	282.5m
8	3	18M	74.2u	1.328m	1.409m	389.8m
9	2	13M	69.5u	1.641m	-	93.41m
10	1	5M	74.3u	-	-	593.2m
11	2	10M	70.3u	1.212m	-	114.0m
12	2	6M	94.8u	1.716m	-	458.3m
13	2	18M	78.4u	1.129m	-	103.1m

**Long Pulse Radar Test Signal****Test Signal Name: LP\_Signal\_08****Number of Bursts in Trial: 11**

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	6M	92.0u	1.270m	-	986.6m
2	2	9M	67.1u	1.345m	-	785.7m
3	2	15M	96.0u	1.224m	-	443.7m
4	3	18M	57.8u	1.866m	953.2u	550.7m
5	2	6M	98.7u	1.245m	-	261.6m
6	3	14M	58.2u	1.927m	1.016m	385.8m
7	3	11M	50.6u	1.090m	1.148m	105.1m
8	1	12M	76.8u	-	-	399.3m
9	2	16M	73.0u	1.679m	-	981.6m
10	2	16M	63.9u	1.022m	-	791.6m
11	1	12M	59.6u	-	-	332.9m

**Long Pulse Radar Test Signal****Test Signal Name: LP\_Signal\_09****Number of Bursts in Trial: 14**

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	16M	74.9u	1.697m	968.1u	176.3m
2	2	8M	82.1u	1.523m	-	18.67m
3	3	15M	82.0u	1.741m	1.041m	443.6m
4	2	17M	52.9u	1.469m	-	621.8m
5	2	19M	79.3u	1.555m	-	67.87m
6	2	9M	81.7u	1.780m	-	147.5m
7	1	17M	63.7u	-	-	638.5m
8	1	12M	65.8u	-	-	202.7m
9	1	8M	81.2u	-	-	1.547m
10	2	19M	89.3u	1.829m	-	631.4m
11	1	7M	89.5u	-	-	493.2m
12	2	16M	65.3u	1.750m	-	843.7m
13	1	10M	50.9u	-	-	60.34m
14	2	16M	97.4u	1.421m	-	760.8m

**Long Pulse Radar Test Signal**

Test Signal Name: LP\_Signal\_10

Number of Bursts in Trial: 12

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	1	19M	72.1u	-	-	129.4m
2	3	6M	60.6u	1.310m	1.548m	356.9m
3	2	7M	90.7u	1.578m	-	15.96m
4	2	8M	53.3u	1.557m	-	490.9m
5	1	7M	55.8u	-	-	606.0m
6	2	9M	96.3u	1.750m	-	122.2m
7	1	19M	95.9u	-	-	460.1m
8	1	12M	69.5u	-	-	740.8m
9	2	8M	94.8u	1.102m	-	257.6m
10	2	18M	64.2u	960.8u	-	198.0m
11	1	9M	97.4u	-	-	421.4m
12	2	15M	56.9u	1.023m	-	746.7m

**Long Pulse Radar Test Signal**

Test Signal Name: LP\_Signal\_11

Number of Bursts in Trial: 12

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	7M	68.5u	1.731m	-	27.18m
2	1	10M	83.1u	-	-	594.9m
3	2	11M	50.4u	977.6u	-	289.4m
4	1	5M	94.3u	-	-	546.1m
5	3	12M	82.6u	1.389m	1.027m	228.8m
6	2	14M	84.6u	974.4u	-	544.3m
7	2	6M	97.1u	1.034m	-	71.47m
8	1	19M	68.9u	-	-	979.9m
9	2	17M	56.8u	1.449m	-	560.9m
10	3	9M	66.5u	954.5u	1.424m	878.5m
11	1	12M	78.0u	-	-	747.8m
12	3	12M	61.7u	1.563m	1.429m	955.4m

**Long Pulse Radar Test Signal****Test Signal Name: LP\_Signal\_12****Number of Bursts in Trial: 9**

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	1	13M	98.4u	-	-	1.171
2	3	15M	95.8u	1.866m	1.232m	511.0m
3	2	6M	52.6u	1.302m	-	1.052
4	1	12M	63.2u	-	-	834.0m
5	3	10M	65.2u	1.812m	1.637m	1.084
6	2	20M	61.9u	1.495m	-	339.1m
7	3	13M	64.0u	1.498m	1.821m	1.044
8	3	16M	70.8u	1.045m	1.583m	680.8m
9	3	11M	87.8u	1.121m	1.220m	108.7m

**Long Pulse Radar Test Signal****Test Signal Name: LP\_Signal\_13****Number of Bursts in Trial: 9**

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	17M	74.3u	1.332m	-	506.9m
2	1	6M	95.1u	-	-	143.7m
3	3	15M	74.1u	965.9u	1.537m	1.028
4	3	19M	88.3u	1.119m	1.600m	549.5m
5	2	6M	78.4u	1.883m	-	1.321
6	3	17M	92.5u	1.171m	1.040m	21.86m
7	1	12M	76.3u	-	-	61.61m
8	2	12M	97.8u	1.070m	-	856.4m
9	2	15M	66.0u	1.435m	-	1.035

**Long Pulse Radar Test Signal**

Test Signal Name: LP\_Signal\_14

Number of Bursts in Trial: 9

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	10M	54.5u	1.662m	-	390.3m
2	2	15M	60.1u	1.720m	-	643.2m
3	1	9M	50.6u	-	-	152.9m
4	1	11M	53.6u	-	-	389.1m
5	2	20M	58.7u	1.801m	-	325.6m
6	2	8M	75.9u	1.385m	-	605.9m
7	1	20M	73.3u	-	-	24.51m
8	2	13M	75.1u	1.543m	-	625.2m
9	1	9M	70.9u	-	-	656.6m

**Long Pulse Radar Test Signal**

Test Signal Name: LP\_Signal\_15

Number of Bursts in Trial: 18

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	17M	80.8u	1.741m	-	556.4m
2	1	19M	90.9u	-	-	120.5m
3	3	15M	66.9u	1.710m	1.055m	546.0m
4	2	16M	75.5u	1.115m	-	515.1m
5	3	8M	78.6u	1.665m	1.102m	122.5m
6	3	10M	66.1u	1.823m	1.508m	168.6m
7	2	13M	63.2u	1.594m	-	653.0m
8	3	16M	71.6u	1.459m	1.491m	377.1m
9	1	9M	55.6u	-	-	405.1m
10	2	13M	63.6u	1.580m	-	379.8m
11	1	9M	64.4u	-	-	140.0m
12	2	13M	51.9u	1.391m	-	17.65m
13	3	20M	70.2u	1.005m	1.792m	372.2m
14	1	15M	75.0u	-	-	231.1m
15	2	13M	63.8u	1.222m	-	2.336m
16	2	19M	54.4u	1.414m	-	460.4m
17	2	19M	54.2u	1.396m	-	264.1m
18	3	7M	58.6u	1.646m	1.309m	453.1m

**Long Pulse Radar Test Signal**

Test Signal Name: LP\_Signal\_16

Number of Bursts in Trial: 13

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	11M	81.4u	1.573m	-	399.0m
2	1	13M	82.0u	-	-	125.2m
3	2	16M	89.5u	1.362m	-	311.0m
4	2	9M	61.1u	1.163m	-	575.4m
5	2	10M	99.4u	1.026m	-	423.3m
6	2	19M	79.4u	989.6u	-	417.4m
7	3	12M	72.3u	1.673m	1.397m	619.4m
8	2	10M	55.2u	1.772m	-	780.7m
9	2	16M	65.4u	1.563m	-	653.7m
10	2	15M	98.6u	1.881m	-	269.1m
11	2	18M	70.5u	929.5u	-	601.7m
12	1	18M	83.7u	-	-	411.3m
13	3	9M	89.5u	1.735m	1.875m	459.1m

**Long Pulse Radar Test Signal**

Test Signal Name: LP\_Signal\_17

Number of Bursts in Trial: 16

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	1	18M	57.1u	-	-	4.277m
2	3	20M	51.3u	990.7u	1.010m	78.96m
3	3	8M	65.1u	1.798m	1.829m	320.0m
4	3	8M	94.5u	1.205m	1.710m	441.6m
5	2	9M	52.7u	1.764m	-	362.3m
6	3	15M	71.4u	1.790m	1.271m	473.8m
7	2	8M	58.6u	1.717m	-	200.1m
8	2	15M	89.3u	1.479m	-	389.2m
9	2	11M	97.6u	1.641m	-	589.8m
10	1	9M	84.3u	-	-	654.0m
11	1	10M	52.8u	-	-	303.6m
12	2	17M	55.5u	1.197m	-	631.1m
13	2	14M	64.6u	1.585m	-	489.5m
14	2	11M	63.2u	1.304m	-	219.1m
15	1	19M	70.3u	-	-	581.3m
16	2	6M	81.6u	1.687m	-	746.3m

**Long Pulse Radar Test Signal**

Test Signal Name: LP\_Signal\_18

Number of Bursts in Trial: 9

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	1	20M	51.3u	-	-	92.13m
2	3	8M	95.3u	1.014m	1.047m	840.9m
3	2	16M	84.9u	979.1u	-	476.5m
4	3	5M	99.7u	1.138m	1.555m	38.71m
5	1	10M	74.3u	-	-	1.251
6	2	15M	69.3u	1.184m	-	192.9m
7	2	6M	67.1u	1.338m	-	1.080
8	2	10M	91.7u	1.380m	-	43.44m
9	3	8M	75.5u	1.726m	1.641m	1.299

**Long Pulse Radar Test Signal**

Test Signal Name: LP\_Signal\_19

Number of Bursts in Trial: 20

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	9M	79.1u	1.348m	-	65.91m
2	2	16M	58.6u	980.4u	-	284.3m
3	3	12M	94.9u	1.375m	1.757m	109.3m
4	2	20M	62.2u	1.274m	-	525.7m
5	2	12M	76.8u	1.862m	-	323.4m
6	2	10M	73.2u	1.759m	-	531.1m
7	1	6M	57.2u	-	-	157.8m
8	1	5M	86.5u	-	-	105.8m
9	2	5M	86.6u	1.609m	-	466.1m
10	2	10M	78.1u	1.730m	-	301.0m
11	2	17M	88.1u	1.748m	-	26.10m
12	1	11M	89.9u	-	-	375.6m
13	3	20M	71.0u	1.023m	1.415m	276.5m
14	1	6M	90.3u	-	-	311.9m
15	2	10M	81.7u	1.623m	-	123.5m
16	2	15M	64.8u	1.665m	-	561.7m
17	2	14M	86.5u	1.693m	-	538.9m
18	1	9M	73.3u	-	-	223.8m
19	2	8M	94.2u	1.216m	-	442.7m
20	2	8M	91.2u	1.287m	-	495.9m

**Long Pulse Radar Test Signal****Test Signal Name: LP\_Signal\_20****Number of Bursts in Trial: 14**

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	13M	66.6u	1.494m	941.4u	611.4m
2	1	9M	90.9u	-	-	768.8m
3	1	15M	72.1u	-	-	647.1m
4	1	20M	92.1u	-	-	852.1m
5	2	17M	54.0u	1.560m	-	547.4m
6	3	7M	50.5u	1.901m	1.248m	530.6m
7	1	8M	77.1u	-	-	337.8m
8	3	7M	90.0u	1.783m	1.123m	314.2m
9	1	15M	59.8u	-	-	431.9m
10	1	7M	54.6u	-	-	514.3m
11	2	8M	99.4u	1.004m	-	772.1m
12	2	10M	81.1u	1.571m	-	853.8m
13	2	11M	51.7u	1.662m	-	508.6m
14	3	13M	86.7u	1.367m	1.563m	528.1m

**Long Pulse Radar Test Signal****Test Signal Name: LP\_Signal\_21****Number of Bursts in Trial: 9**

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	18M	87.6u	1.108m	-	618.5m
2	2	14M	61.7u	1.488m	-	414.6m
3	2	20M	50.0u	1.428m	-	953.0m
4	2	19M	77.2u	1.908m	-	970.3m
5	2	18M	93.6u	1.679m	-	44.74m
6	2	13M	57.9u	1.278m	-	760.1m
7	2	5M	69.2u	1.583m	-	78.13m
8	2	20M	58.6u	1.067m	-	1.217
9	3	12M	58.7u	1.576m	1.904m	1.066

**Long Pulse Radar Test Signal****Test Signal Name: LP\_Signal\_22****Number of Bursts in Trial: 10**

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	11M	67.1u	1.705m	-	937.0m
2	1	6M	53.9u	-	-	123.2m
3	2	7M	57.5u	1.882m	-	992.1m
4	1	12M	50.6u	-	-	320.6m
5	1	17M	61.9u	-	-	939.2m
6	2	16M	51.6u	1.854m	-	226.2m
7	2	7M	63.6u	946.4u	-	441.5m
8	2	11M	65.1u	1.062m	-	165.9m
9	3	7M	51.5u	1.636m	1.280m	955.1m
10	3	10M	67.4u	1.675m	1.670m	1.110

**Long Pulse Radar Test Signal****Test Signal Name: LP\_Signal\_23****Number of Bursts in Trial: 11**

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	6M	85.1u	1.377m	-	534.4m
2	2	8M	55.8u	1.589m	-	403.5m
3	1	10M	85.6u	-	-	809.0m
4	3	18M	85.3u	977.7u	1.859m	876.3m
5	2	16M	78.0u	936.0u	-	846.0m
6	2	8M	71.9u	1.043m	-	1.030
7	3	20M	90.8u	1.530m	1.862m	772.6m
8	1	11M	60.5u	-	-	955.4m
9	2	8M	58.0u	1.405m	-	174.3m
10	2	15M	66.5u	1.924m	-	41.42m
11	3	10M	82.7u	1.463m	1.693m	916.8m



Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_24

Number of Bursts in Trial: 15

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	17M	56.0u	1.877m	-	278.5m
2	2	20M	66.8u	1.631m	-	237.2m
3	1	14M	72.7u	-	-	275.3m
4	1	6M	67.6u	-	-	284.4m
5	2	15M	93.4u	938.6u	-	790.9m
6	3	6M	92.8u	1.222m	982.2u	41.04m
7	2	15M	83.4u	1.145m	-	746.2m
8	2	12M	65.0u	1.401m	-	525.4m
9	1	16M	72.5u	-	-	167.3m
10	2	12M	62.4u	1.181m	-	254.5m
11	2	15M	72.3u	1.897m	-	427.6m
12	1	20M	75.4u	-	-	422.7m
13	3	12M	70.8u	1.928m	1.281m	694.3m
14	2	16M	57.1u	1.518m	-	609.9m
15	3	17M	56.3u	1.894m	1.899m	642.7m



Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_25

Number of Bursts in Trial: 20

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	11M	93.7u	1.841m	1.462m	534.4m
2	2	20M	81.5u	925.5u	-	536.2m
3	3	6M	89.2u	1.361m	1.238m	416.9m
4	3	14M	60.0u	1.752m	1.271m	226.8m
5	2	11M	97.6u	1.609m	-	581.0u
6	2	13M	61.3u	1.237m	-	541.0m
7	3	13M	53.6u	1.001m	1.682m	12.89m
8	2	7M	96.4u	1.850m	-	106.6m
9	3	11M	56.1u	1.485m	1.104m	170.6m
10	1	12M	74.7u	-	-	428.0m
11	2	13M	62.9u	1.354m	-	86.03m
12	2	5M	54.2u	1.584m	-	393.8m
13	2	14M	80.5u	944.5u	-	455.7m
14	2	15M	88.8u	1.103m	-	139.5m
15	2	15M	54.5u	1.610m	-	306.9m
16	2	11M	79.4u	1.434m	-	220.8m
17	2	17M	80.9u	1.190m	-	458.2m
18	2	15M	89.1u	1.832m	-	285.7m
19	2	7M	63.5u	1.045m	-	384.8m
20	2	16M	59.4u	1.307m	-	562.0m

**Long Pulse Radar Test Signal****Test Signal Name: LP\_Signal\_26****Number of Bursts in Trial: 11**

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	14M	96.9u	1.452m	1.352m	592.1m
2	2	13M	79.4u	1.009m	-	1.075
3	3	12M	51.6u	1.523m	1.054m	415.8m
4	1	12M	99.7u	-	-	741.3m
5	3	20M	95.6u	1.208m	1.895m	98.03m
6	3	5M	94.1u	941.9u	1.268m	757.0m
7	1	7M	57.3u	-	-	76.81m
8	2	20M	96.2u	1.066m	-	1.061
9	1	9M	93.7u	-	-	210.6m
10	2	19M	92.2u	1.522m	-	396.7m
11	3	7M	63.6u	1.062m	1.712m	652.8m

**Long Pulse Radar Test Signal****Test Signal Name: LP\_Signal\_27****Number of Bursts in Trial: 14**

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	18M	84.5u	1.777m	-	798.8m
2	2	14M	83.7u	1.354m	-	217.3m
3	3	15M	74.2u	1.817m	1.818m	564.9m
4	2	19M	54.3u	1.696m	-	132.6m
5	1	15M	88.1u	-	-	256.3m
6	3	10M	57.0u	1.237m	1.494m	228.0m
7	2	8M	96.8u	906.2u	-	610.5m
8	2	18M	63.5u	1.682m	-	201.0m
9	3	14M	84.3u	1.079m	1.172m	180.8m
10	2	13M	83.4u	1.904m	-	761.9m
11	2	9M	51.1u	1.663m	-	558.3m
12	2	16M	96.3u	1.488m	-	799.6m
13	3	6M	77.5u	1.251m	1.680m	263.5m
14	2	13M	70.7u	1.280m	-	653.7m

**Long Pulse Radar Test Signal****Test Signal Name: LP\_Signal\_28****Number of Bursts in Trial: 10**

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	18M	97.8u	1.718m	-	497.3m
2	2	8M	77.8u	1.301m	-	829.6m
3	3	9M	86.2u	1.705m	1.441m	1.089
4	1	11M	78.7u	-	-	73.04m
5	2	14M	65.3u	1.075m	-	576.4m
6	2	17M	66.9u	981.1u	-	1.150
7	2	19M	86.6u	1.173m	-	58.48m
8	1	9M	96.8u	-	-	777.7m
9	1	6M	52.8u	-	-	988.6m
10	2	16M	60.6u	1.426m	-	239.3m

**Long Pulse Radar Test Signal****Test Signal Name: LP\_Signal\_29****Number of Bursts in Trial: 12**

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	18M	84.3u	1.756m	-	795.1m
2	2	9M	82.0u	1.470m	-	57.44m
3	3	20M	99.1u	983.9u	1.696m	898.8m
4	2	17M	91.7u	1.554m	-	991.5m
5	2	9M	53.3u	1.893m	-	239.6m
6	1	16M	85.1u	-	-	816.5m
7	3	6M	91.5u	923.5u	1.592m	874.2m
8	2	17M	53.6u	1.363m	-	421.7m
9	1	8M	77.6u	-	-	584.1m
10	2	9M	64.3u	1.429m	-	566.0m
11	3	11M	69.9u	957.1u	1.273m	201.5m
12	2	9M	85.1u	1.635m	-	712.3m



Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_30

Number of Bursts in Trial: 11

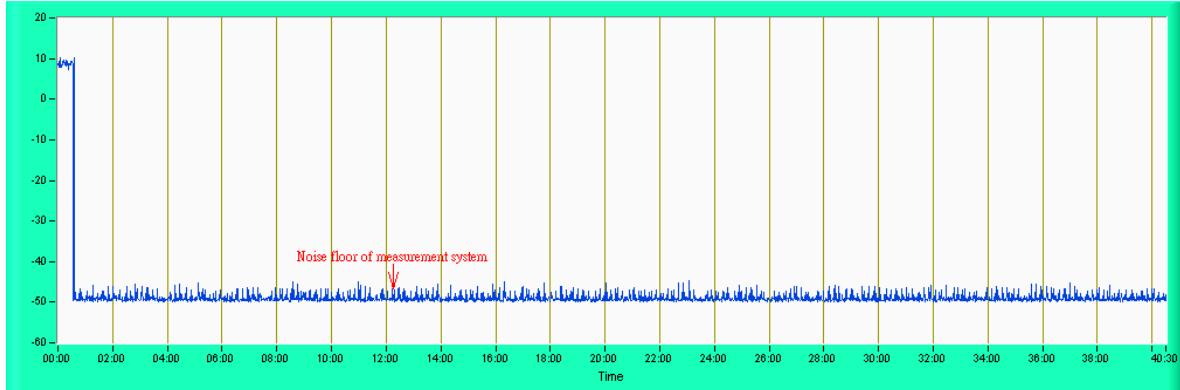
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	6M	70.8u	1.410m	-	762.0m
2	2	19M	92.5u	1.453m	-	101.8m
3	2	14M	88.4u	1.273m	-	411.1m
4	2	15M	92.4u	1.125m	-	423.5m
5	2	13M	88.3u	1.004m	-	165.7m
6	2	16M	66.1u	1.884m	-	666.3m
7	3	16M	73.0u	1.190m	1.724m	436.9m
8	1	6M	56.0u	-	-	233.4m
9	3	13M	72.9u	1.190m	1.253m	768.4m
10	3	15M	69.5u	1.655m	1.697m	399.6m
11	2	19M	83.9u	1.868m	-	672.7m

### **Non- Occupancy Period**

During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.

#### **802.11a**

##### **Non - Occupancy Period @ CH100 - 5500MHz**



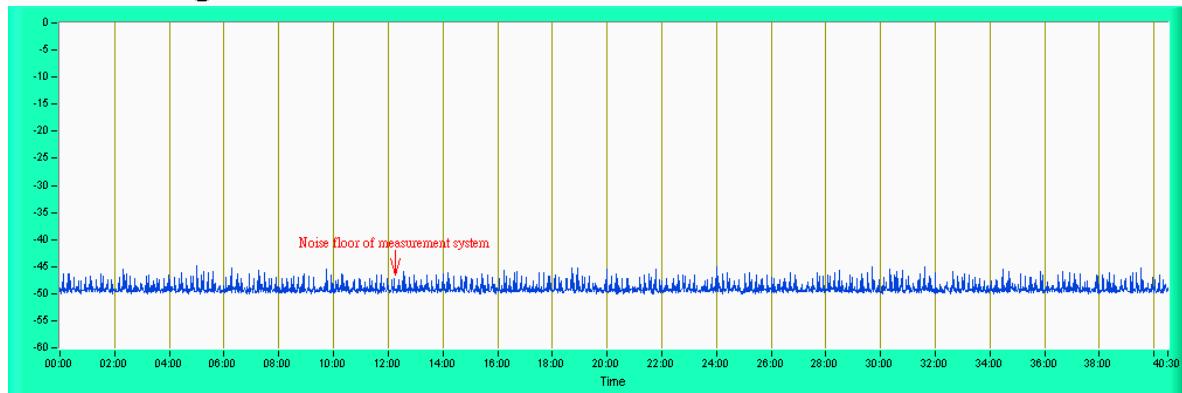


## Non-associated test

Master was off.

During the 30 minutes observation time, The UUT did not make any transmissions in the DFS band after UUT power up.

**Power-On Test @ CH100 - 5500MHz**





## 7. TESTING LABORATORIES INFORMATION

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

<b>USA</b>	FCC, UL, A2LA
<b>Germany</b>	TUV Rheinland
<b>Japan</b>	VCCI
<b>Norway</b>	NEMKO
<b>Canada</b>	INDUSTRY CANADA, CSA
<b>R.O.C.</b>	TAF, BSMI, NCC
<b>Netherlands</b>	Telefication
<b>Singapore</b>	GOST-ASIA(MOU)
<b>Russia</b>	CERTIS(MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

[www.adt.com.tw/index.5/phtml](http://www.adt.com.tw/index.5/phtml). If you have any comments, please feel free to contact us at the following:

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Fax: 886-2-26051924

**Hsin Chu EMC/RF Lab:**

Tel: 886-3-5935343  
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Tel: 886-3-3183232  
Fax: 886-3-3185050

**Web Site:** [www.adt.com.tw](http://www.adt.com.tw)

The address and road map of all our labs can be found in our web site also.



## 8. APPENDIX

### 8.1 APPENDIX-A

#### **Modifications or adding components during the test**

No any modifications are made to the EUT by the lab during the test.