

FCC&ISED DFS Test Report

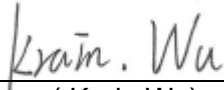
FCC ID: 2AB7X-WISEPRO

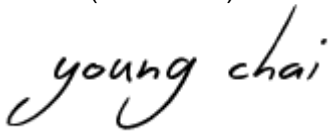
IC: 24228-WISEPRO

This report concerns: Original Grant

Project No. : 1906H001
Equipment : WisePOS Pro
Test Model : WSP71
Series Model : WSP72, WSP73
Applicant : BBPOS International Limited
Address : Suite 1903-04, 19/F, Tower 2, Nina Tower, No. 8
Yeung Uk Road, Tsuen Wan, N.T. HK

Date of Receipt : Jul. 12, 2019
Date of Test : Jul. 12, 2019~Aug. 23, 2019
Issued Date : Sep. 12, 2019
Tested by : BTL Inc.

Technical Manager : 
(Krain Wu)

Authorized Signatory : 
(Young Chai)

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Certificate # 5123. 03

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Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

| Table of Contents | page |
|---|-------------|
| REPORT ISSUED HISTORY | 4 |
| 1 . GENERAL SUMMARY | 5 |
| 2 . EUT INFORMATION | 6 |
| 2.1 EUT SPECIFICATION TABLE | 6 |
| 2.2 CONDUCTED OUTPUT POWER AND EIRP | 8 |
| 3 .U-NII DFS RULE REQUIREMENTS | 9 |
| 3.1 WORKING MODES AND REQUIRED TEST ITEMS | 9 |
| 3.2 TEST LIMITS AND RADAR SIGNAL PARAMETERS | 10 |
| 4 . TEST INSTRUMENTS | 13 |
| 5 . DYNAMIC FREQUENCY SELECTION (DFS) TEST | 14 |
| 5.1 DFS MEASUREMENT SYSTEM | 14 |
| 5.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL | 18 |
| 5.3 DEVIATION FROM TEST STANDARD | 18 |
| 6 . TEST RESULTS | 19 |
| 6.1 SUMMARY OF TEST RESULT | 19 |
| 6.2 TEST MODE: DEVICE OPERATING IN MASTER MODE. | 19 |
| 6.3 DFS DETECTION THRESHOLD | 19 |
| 6.4 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME WLAN TRAFFIC | 21 |
| 6.5 NON- OCCUPANCY PERIOD | 25 |

REPORT ISSUED HISTORY

| Report Version | Description | Issued Date |
|----------------|-----------------|---------------|
| R00 | Original Issue. | Sep. 12, 2019 |

1. GENERAL SUMMARY

Equipment : WisePOS Pro
Brand Name : BBPOS
Test Model : WSP71
Series Model : WSP72, WSP73
Applicant : BBPOS International Limited
Manufacturer : BBPOS International Limited
Address : Suite 1903-04, 19/F, Tower 2, Nina Tower, No. 8 Yeung Uk Road, Tsuen Wan, N.T. HK
Date of Test : Jul. 12, 2019~Aug. 23, 2019
Test Sample : Engineering Sample No.: SH19070367
Standard(s) : FCC Part 15, Subpart E (Section 15.407) / FCC 06-96
RSS-247 Section 6
FCC KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02
FCC KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FICP-1-1906H001) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

Test results included in this report are only for the DFS Slave part.

2. EUT INFORMATION

2.1 EUT SPECIFICATION TABLE

Table 1: Specification of EUT

| | |
|----------------------------------|--|
| Product Name | WisePOS Pro |
| Brand Name | BBPOS |
| Test Model | WSP71 |
| Series Model | WSP72, WSP73 |
| Model Difference(s) | WSP71: WisePOS Pro device only; WSP72: WisePOS Pro device with hand strap; WSP73: WisePOS Pro device with pistol grip. |
| Software Version | 970ADGAAK2_BB_V009 |
| Hardware Version | 7MD_V01 |
| Operational Mode | Slave |
| Operating Frequency Range | 5250 MHz~5350 MHz & 5470 MHz~5725 MHz |
| Modulation | OFDM |

Note: This device was functioned as a

Master Slave device without radar detection Slave device with radar detection

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

| 802.11a 802.11n 20MHz 802.11ac 20MHz | | 802.11n 40MHz 802.11ac 40MHz | | 802.11ac 80MHz | |
|--|-----------------|---------------------------------|-----------------|----------------|-----------------|
| UNII-2A | | UNII-2A | | UNII-2A | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 52 | 5260 | 54 | 5270 | 58 | 5290 |
| 56 | 5280 | 62 | 5310 | | |
| 60 | 5300 | | | | |
| 64 | 5320 | | | | |

| IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20) | | IEEE 802.11n (HT40) IEEE 802.11ac (VHT40) | | IEEE 802.11ac (VHT80) | |
|--|-----------------|--|-----------------|-----------------------|-----------------|
| UNII-2C | | UNII-2C | | UNII-2C | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 100 | 5500 | 102 | 5510 | 106 | 5530 |
| 104 | 5520 | 110 | 5550 | 122 | 5610 |
| 108 | 5540 | 118 | 5590 | | |
| 112 | 5560 | 126 | 5630 | | |
| 116 | 5580 | 134 | 5670 | | |
| 120 | 5600 | | | | |
| 124 | 5620 | | | | |
| 128 | 5640 | | | | |
| 132 | 5660 | | | | |
| 136 | 5680 | | | | |
| 140 | 5700 | | | | |

3. Antenna Specification:

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) | Note |
|------|-------|------------|--------------|-----------|------------|------|
| 1 | N/A | N/A | PIFA | N/A | 4.1 | N/A |

Note:

- (1) The EUT incorporates a MIMO function. Physically, the EUT provides four completed transmitters and receivers (4T4R), all transmit signals are completely uncorrelated, then, Direction gain = G_{ANT} , that is Directional gain=2.8

2.2 CONDUCTED OUTPUT POWER AND EIRP

Table 2: The Conducted Output Power and EIRP List

| Mode: TX (11a) | | | | |
|----------------------|----------------------------------|--------------|----------------|---------------|
| Frequency Band (MHz) | Max Couducted Output Power (dBm) | Antenna Gain | Max EIRP (dBm) | Max EIRP (mW) |
| 5250~5350 | 16.83 | 4.1 | 20.93 | 123.88 |
| 5470~5725 | 16.97 | 4.1 | 21.07 | 127.94 |

| Mode: TX (11n 40MHz) | | | | |
|----------------------|----------------------------------|--------------|----------------|---------------|
| Frequency Band (MHz) | Max Couducted Output Power (dBm) | Antenna Gain | Max EIRP (dBm) | Max EIRP (mW) |
| 5250~5350 | 15.75 | 4.1 | 19.85 | 96.61 |
| 5470~5725 | 15.92 | 4.1 | 20.02 | 100.46 |

| Mode: TX (11ac 80 MHz) | | | | |
|------------------------|----------------------------------|--------------|----------------|---------------|
| Frequency Band (MHz) | Max Couducted Output Power (dBm) | Antenna Gain | Max EIRP (dBm) | Max EIRP (mW) |
| 5250~5350 | 9.55 | 4.1 | 13.65 | 23.17 |
| 5470~5725 | 14.56 | 4.1 | 18.66 | 73.45 |

3.U-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 3 and 4 for the applicability of DFS requirements for each of the operational modes.

Table 3: Applicability of DFS requirements prior to use a channel

| Requirement | Operational Mode | | |
|---------------------------------|------------------|--------------------------------|-----------------------------|
| | Master | Client without radar detection | Client with radar detection |
| Non-Occupancy Period | ✓ | ✓ | ✓ |
| 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 4: 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 5: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection.

| Maximum Transmit Power | Value (See Notes 1 and 2) |
|---|------------------------------|
| EIRP \geq 200 milliwatt | -64 dBm |
| EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz | -62 dBm |
| EIRP < 200 milliwatt that do not meet the power spectral density requirement | -64 dBm |

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

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

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

Table 6: 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 100% of the UNII 99% transmission power bandwidth. See Note 3. |

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate 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 0 should be used. 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 7: Short Pulse Radar Test Waveforms.

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

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

Table 8: 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 |

The parameters for this waveform are randomly chosen (The center frequency for each of the 30 trials of the Bin 5 radar shall be randomly selected within 80% of the Occupied Bandwidth.) Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Table 9: Frequency Hopping 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 |
|------------|--------------------|-------------------|------------|----------------------------|------------------|--|--------------------------|
| 6 | 1 | 333 | 9 | 0.333 | 300 | 70% | 30 |

4. TEST INSTRUMENTS

Table 10: Test instruments list.

| Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|---|--------------------|---------------|---------------|------------------|
| EXA Spectrum Analyzer | Keysight | N9010A | MY56480561 | Mar. 29, 2020 |
| MXG X-Series RF Vector Signal Generator | Keysight | N5182B | MY56200484 | Mar. 29, 2020 |
| Power Divider | JUK | PD-2SF-2060 | N/A | N/A |
| Power Divider | JUK | PD-2SF-2060 | N/A | N/A |
| Attenuator | Solvang Technology | 5.8GHz 0-65dB | STI02-0203-01 | Nov. 20, 2019 |

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

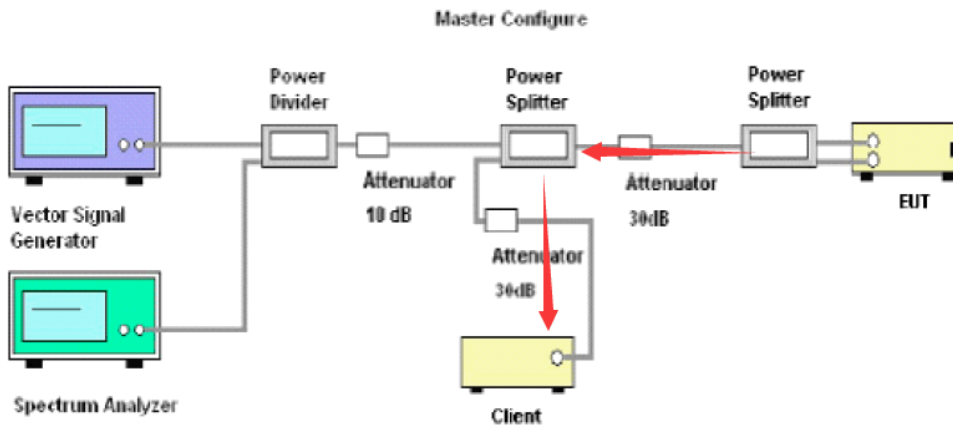
5. DYNAMIC FREQUENCY SELECTION (DFS) TEST

5.1 DFS MEASUREMENT SYSTEM

Test Procedure

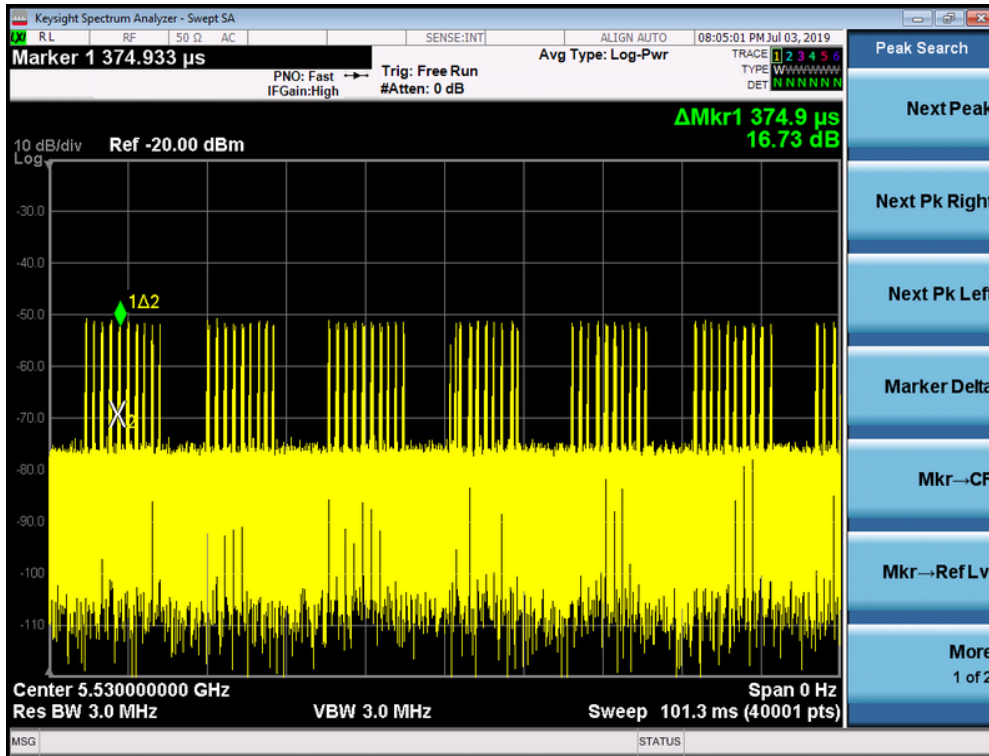
1. Master device and client device are set up by conduction method as the following configuration.
2. The client device is connected to notebook and to access a IP address on wireless connection with the master device.
3. Then the master device is connected to another notebook to access a IP address.
4. Finally, let the two IP addresses run traffic with each other through the Run flow software "Lan test" to reach 17% channel loading as below.

Setup

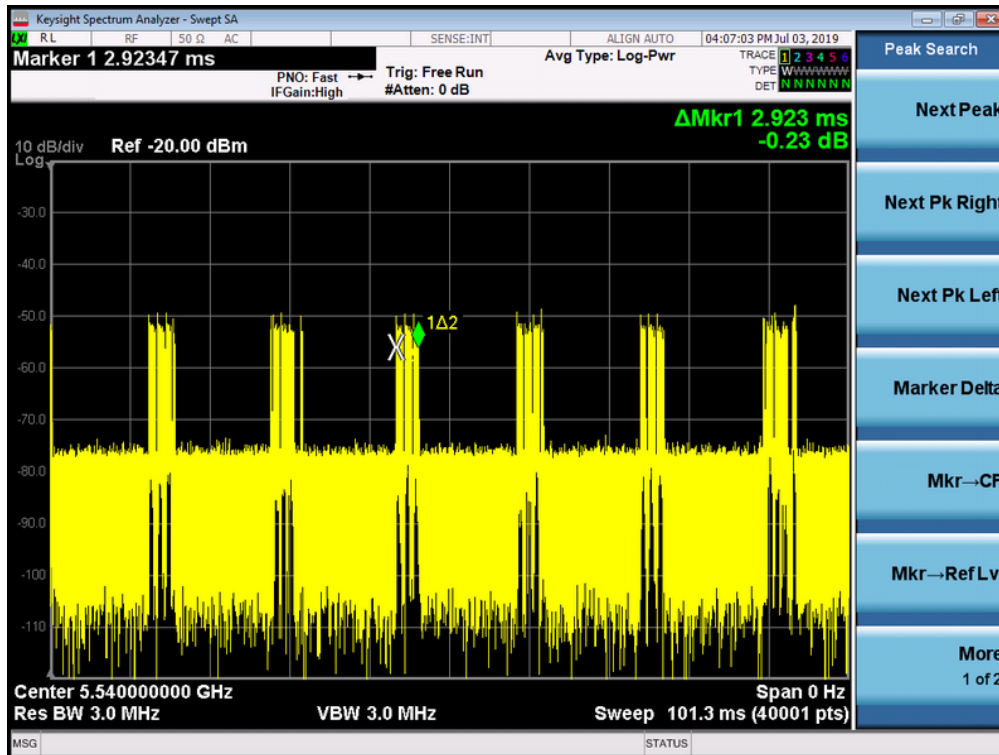


Channel Loading

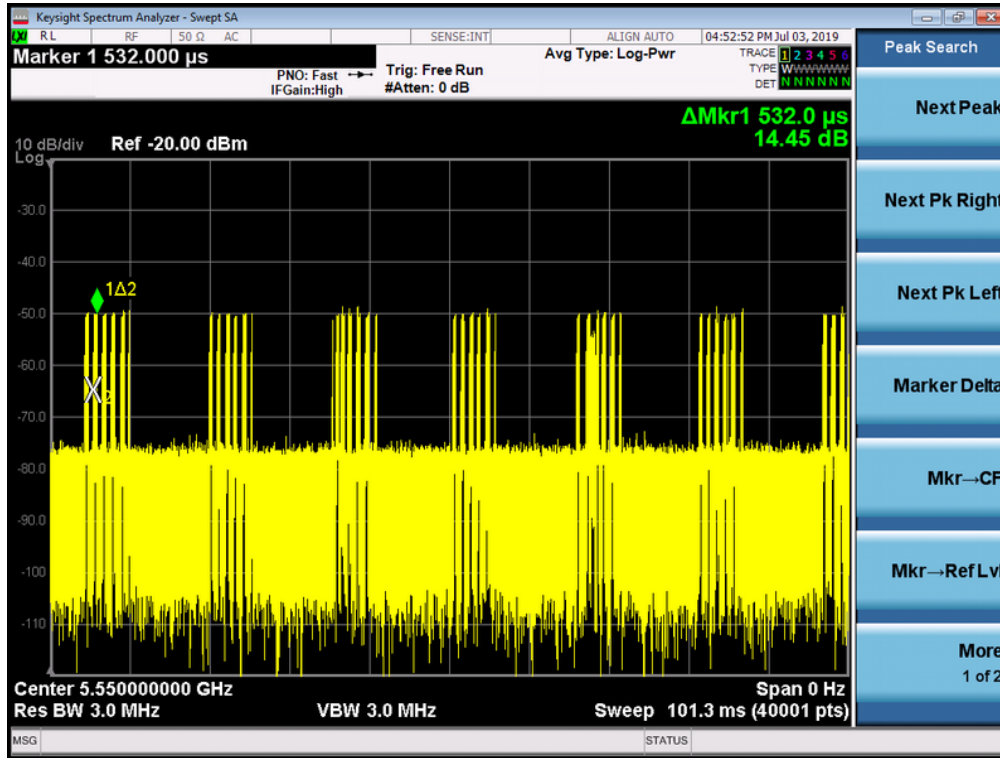
11a Mode



11n 40MHz Mode



11ac 80MHz Mode



| Channel (MHz) | Marker Delta (ms) | Number | On Time (ms) | Total Time (ms) | Duty cycle (%) | Limit (%) |
|---------------|-------------------|--------|--------------|-----------------|----------------|-----------|
| 5540 | 0.374 | 62 | 23.19 | 101.3 | 23.49 | 17.00 |
| 5550 | 2.923 | 6 | 18.19 | 101.3 | 17.31 | 17.00 |
| 5530 | 0.532 | 39 | 20.75 | 101.3 | 20.48 | 17.00 |

The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List. The initial starting point randomized at run-time and each subsequent starting point is incremented by 475. Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of FCC 06-96. The frequency of the signal generator is incremented in 1 MHz steps from FL to FH for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

The signal monitoring equipment consists of a spectrum analyzer set to display 8001 bins on the horizontal axis. The time-domain resolution is 2 msec / bin with a 16 second sweep time, meeting the 10 second short pulse reporting criteria. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold.

Should multiple RF ports be utilized for the Master and/or Slave devices (for example, for diversity or MIMO implementations), additional combiner/dividers are inserted between the Master Combiner/Divider and the pad connected to the Master Device (and/or between the Slave Combiner/Divider and the pad connected to the Slave Device). Additional pads are utilized such that there is one pad at each RF port on each EUT.

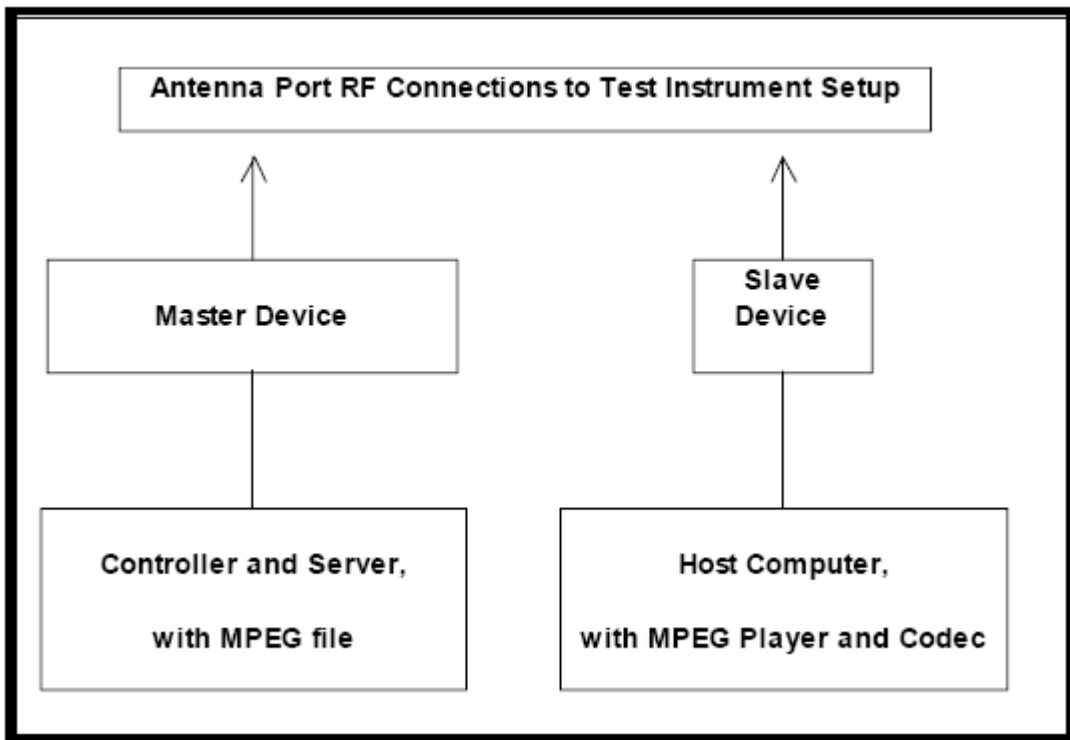
5.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL

A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected in place of the master device and the signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of -64dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyzer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. Measure the amplitude and calculate the difference from -64 dBm . Adjust the Reference Level Offset of the spectrum analyzer to this difference.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of -64 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

Set the signal generator to produce a radar waveform, trigger a burst manually and measure the level on the spectrum analyzer. Readjust the amplitude of the signal generator as required so that the peak level of the waveform is at a displayed level equal to the required or desired interference detection threshold. Separate signal generator amplitude settings are determined as required for each radar type.



5.3 DEVIATION FROM TEST STANDARD

No deviation.

6. TEST RESULTS

6.1 SUMMARY OF TEST RESULT

| Clause | Test Parameter | Test Mode and Channel | Remarks | Pass/Fail |
|--------|-----------------------------------|-----------------------|----------------|-----------|
| 15.407 | DFS Detection Threshold | - | No Applicable | N/A |
| 15.407 | Channel Availability Check Time | - | Not Applicable | N/A |
| 15.407 | Channel Move Time | 11a 5540 MHz | Applicable | Pass |
| | | 11n 40MHz 5550 MHz | | |
| | | 11ac 80MHz 5530 MHz | | |
| 15.407 | Channel Closing Transmission Time | 11a 5540 MHz | Applicable | Pass |
| | | 11n 40MHz 5550 MHz | | |
| | | 11ac 80MHz 5530 MHz | | |
| 15.407 | Non- Occupancy Period | 11a 5540 MHz | Applicable | Pass |
| | | 11n 40MHz 5550 MHz | | |
| | | 11ac 80MHz 5530 MHz | | |
| 15.407 | Uniform Spreading | - | Not Applicable | N/A |
| 15.407 | U-NII Detection Bandwidth | - | Not Applicable | N/A |

6.2 TEST MODE: DEVICE OPERATING IN MASTER MODE.

Master with injection at the Master. (Radar Test Waveforms are injected into the Master)

6.3 DFS DETECTION THRESHOLD

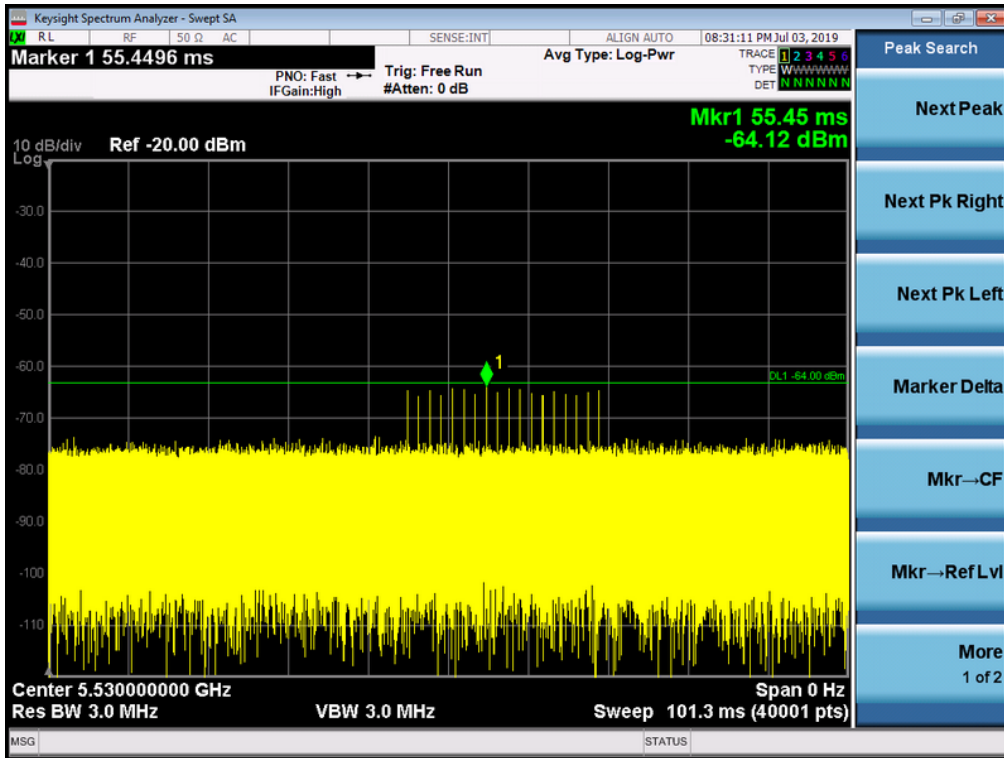
Calibration:

The EUT is slave equipment and it with a max gain is 4.1 dBi.

For a detection threshold level of -62dBm and the master antenna gain is 4.1 dBi, required detection threshold is -57.90 dBm (= -62+4.1).

Note: Maximum Transmit Power is more than 200 milliwatt in this report, so detection threshold level is -62dBm.

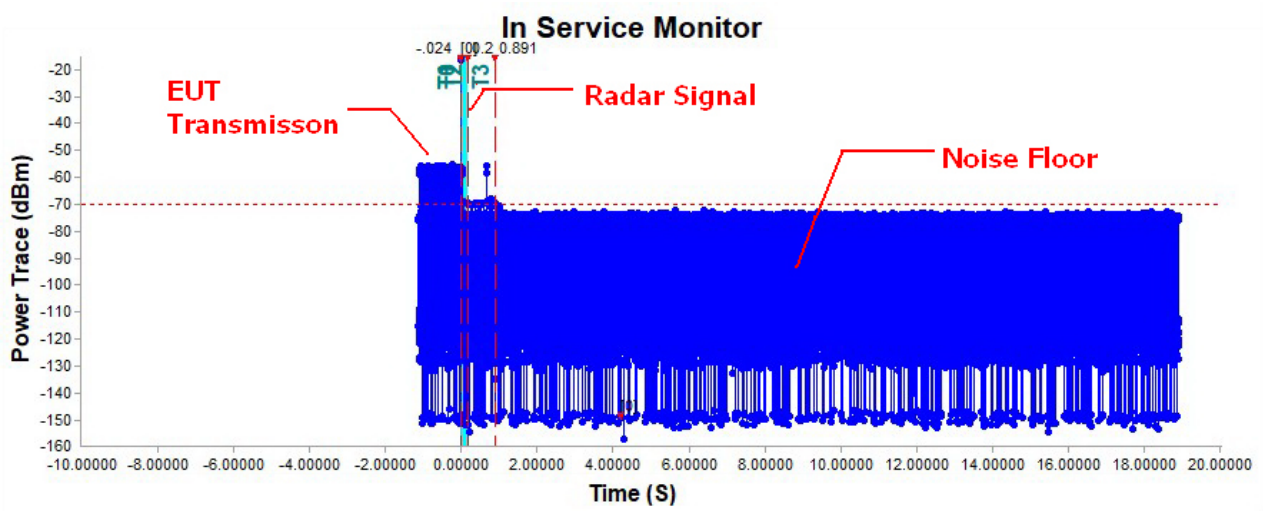
Radar Signal 0



6.4 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME WLAN TRAFFIC

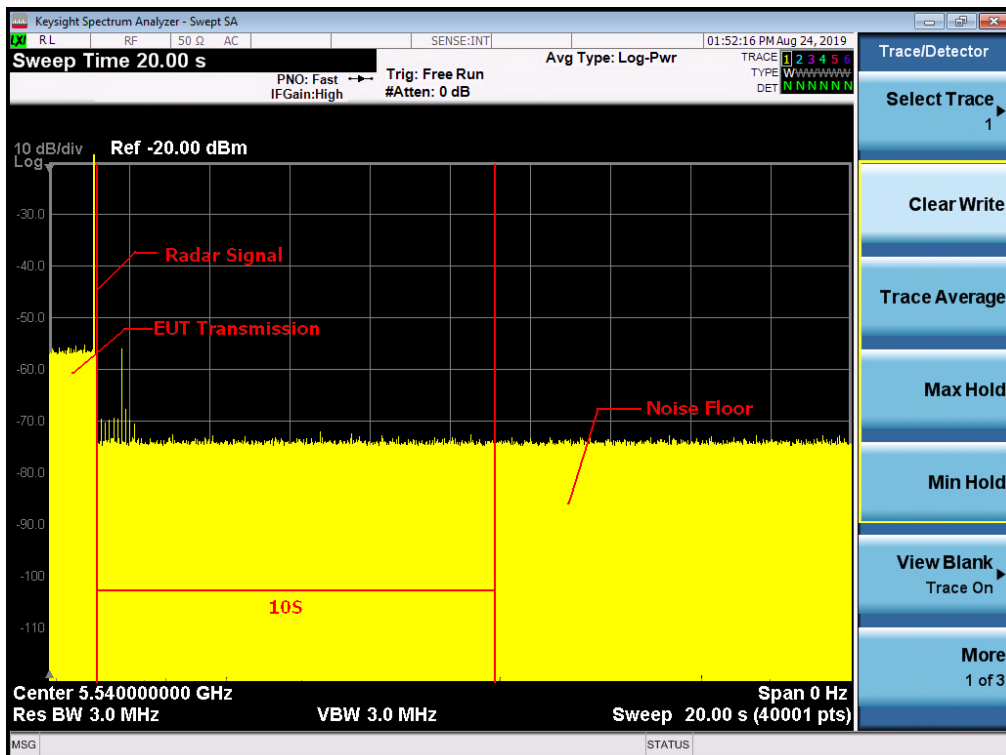
TX (11a Mode)

Radar signal 0



| Time Index Info | | | |
|-----------------|-------------------------|----------------------------|---------------------------------|
| T0 : -0.0240 S | (Radar Injection Start) | Time Per Bin: 0.4999875 | Channel Move Time: 0.8909777 S |
| T1 : 0.0000 S | (Radar Injection Stop) | T2~T3 Bins Over Threshold: | Channel Close Time: 0.0039999 S |
| T2 : 0.2000 S | (200msec Interval) | = 8 Bins | |
| T3 : 0.8910 S | (Channel Move Time) | | |

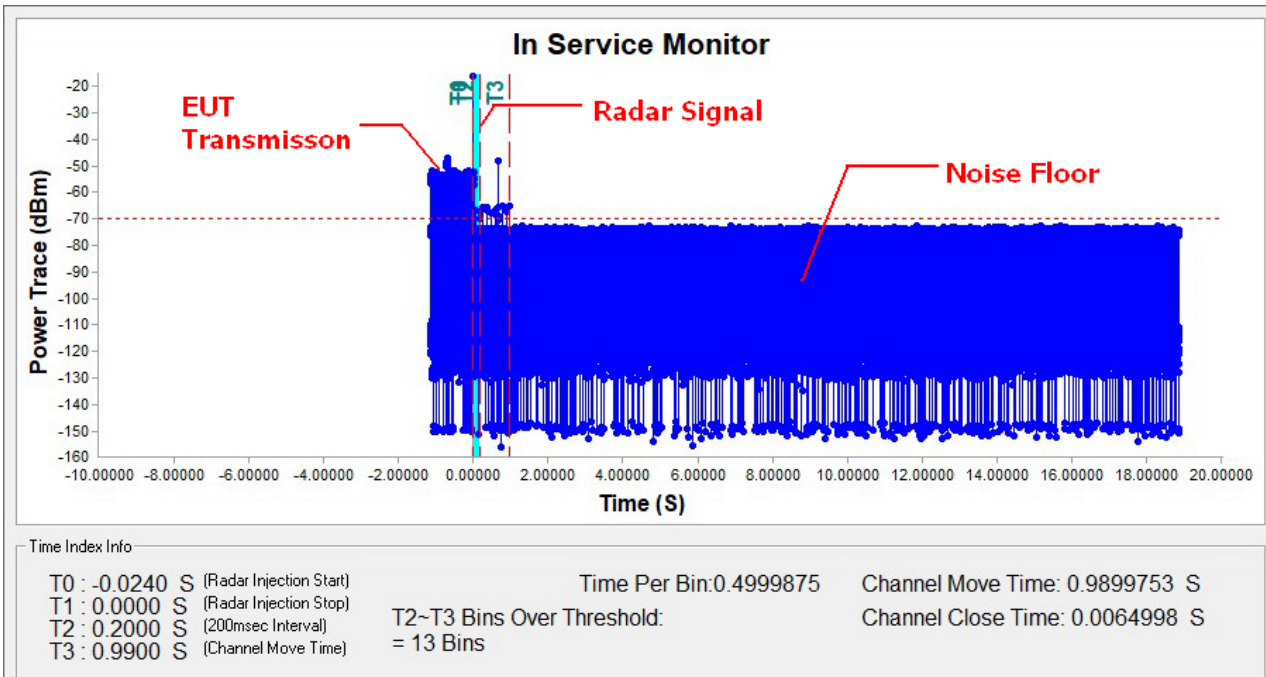
Note: T0 denotes the Radar Injection Start.
 T1 denotes the start of Channel Move Time upon the end of the last Radar burst.
 T2 denotes the data transmission time of 200ms from T1.
 T3 denotes the end of Channel Move Time.



Note: An expanded plot for the device vacates the channel in the required 500ms

TX (11n 40MHz Mode)

Radar signal 0

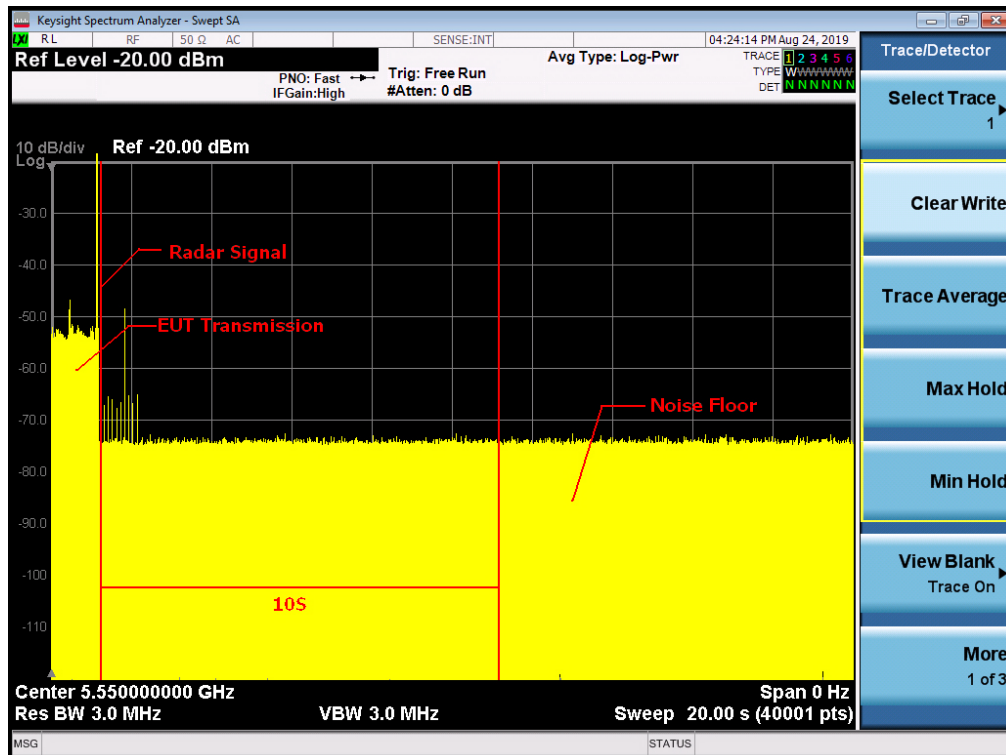


Note: T0 denotes the Radar Injection Start.

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.

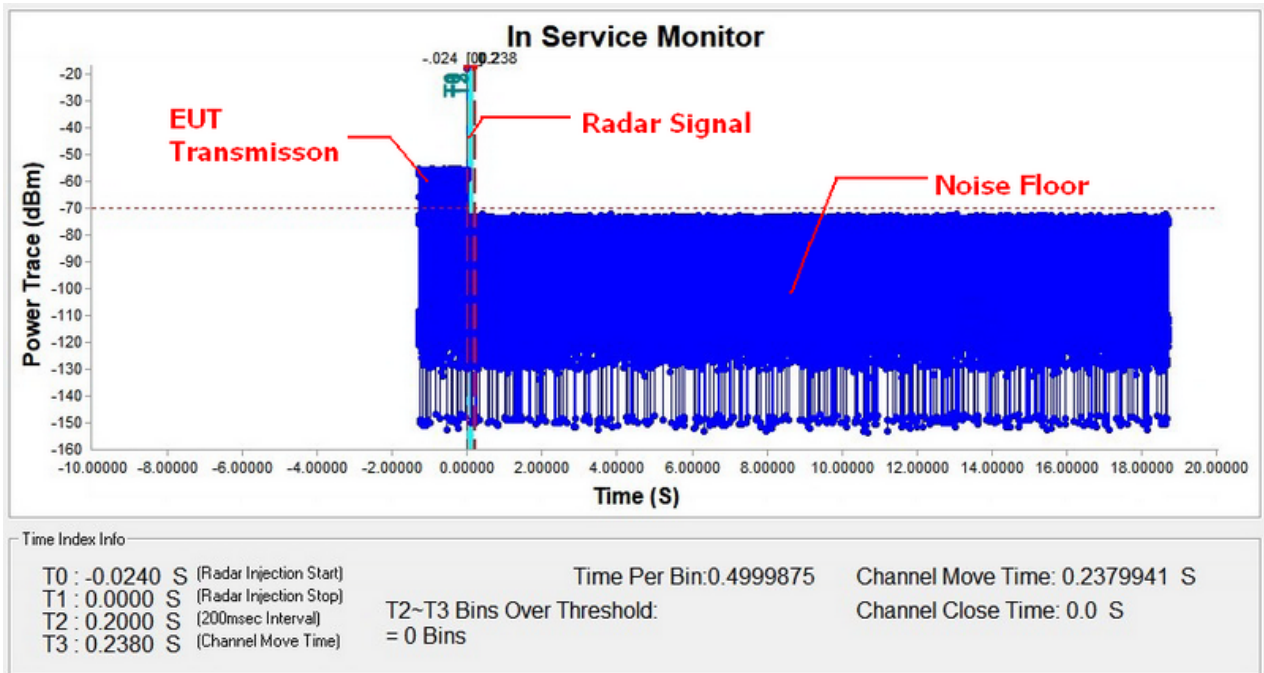
T3 denotes the end of Channel Move Time.



Note: An expanded plot for the device vacates the channel in the required 500ms

TX (11ac 80MHz Mode)

Radar signal 0

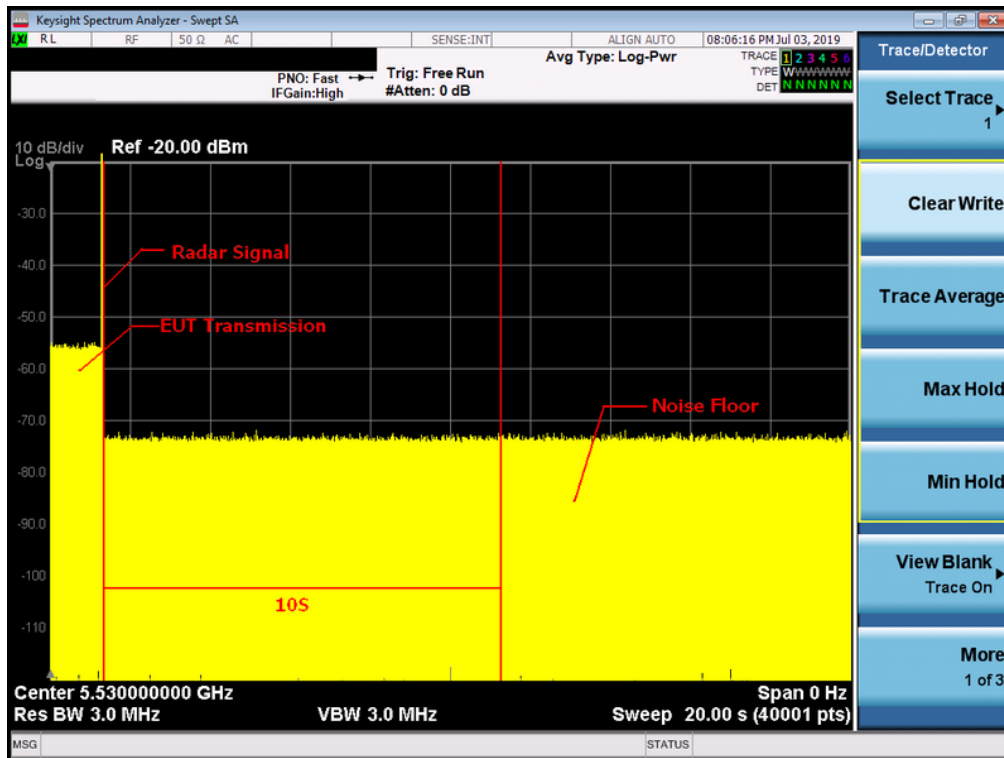


Note: T0 denotes the Radar Injection Start.

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 end of Channel Move Time.



Note: An expanded plot for the device vacates the channel in the required 500ms

| 11a Mode | | |
|--------------------|-------------------|---|
| Item | Measured Value(s) | Limit(s) |
| Channel Move Time | 0.8909777 | 10 |
| Channel Close Time | 0.0039999 | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. |

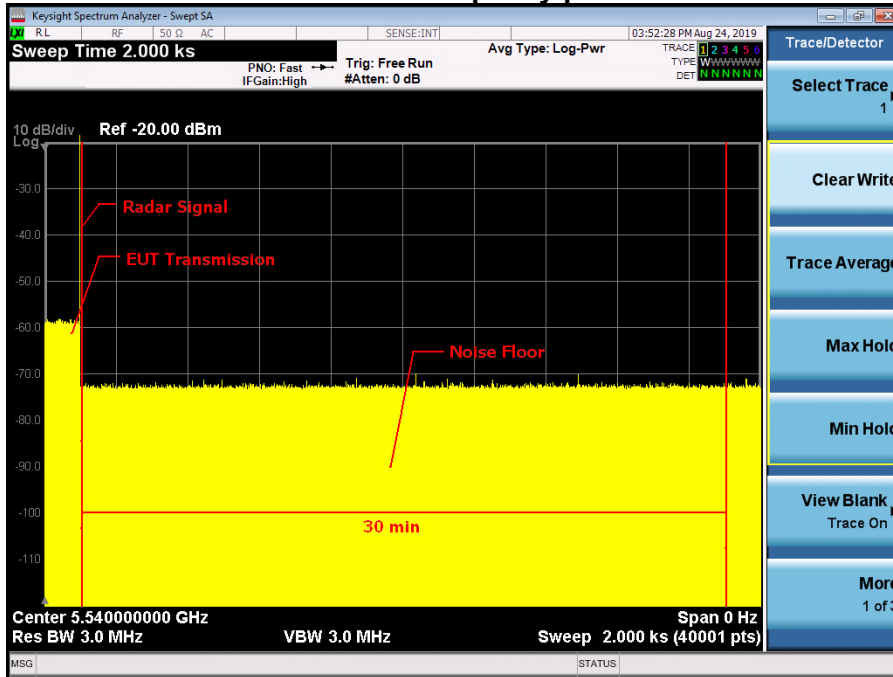
| 11n 40MHz Mode | | |
|--------------------|-------------------|---|
| Item | Measured Value(s) | Limit(s) |
| Channel Move Time | 0.9899753 | 10 |
| Channel Close Time | 0.0064998 | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. |

| 11ac 80MHz Mode | | |
|--------------------|-------------------|---|
| Item | Measured Value(s) | Limit(s) |
| Channel Move Time | 0.2379941 | 10 |
| Channel Close Time | 0.00 | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. |

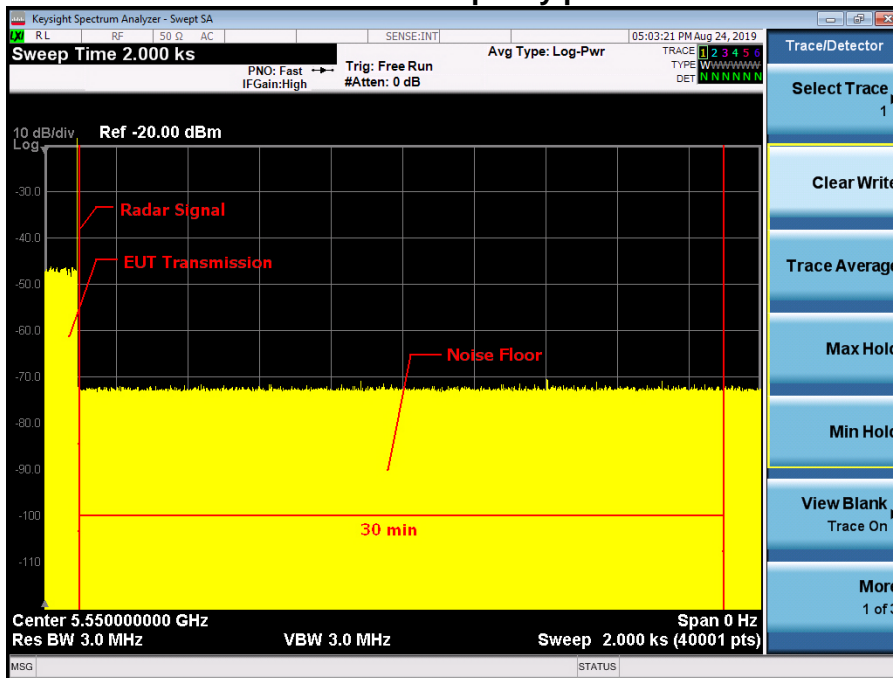
6.5 NON- OCCUPANCY PERIOD

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.

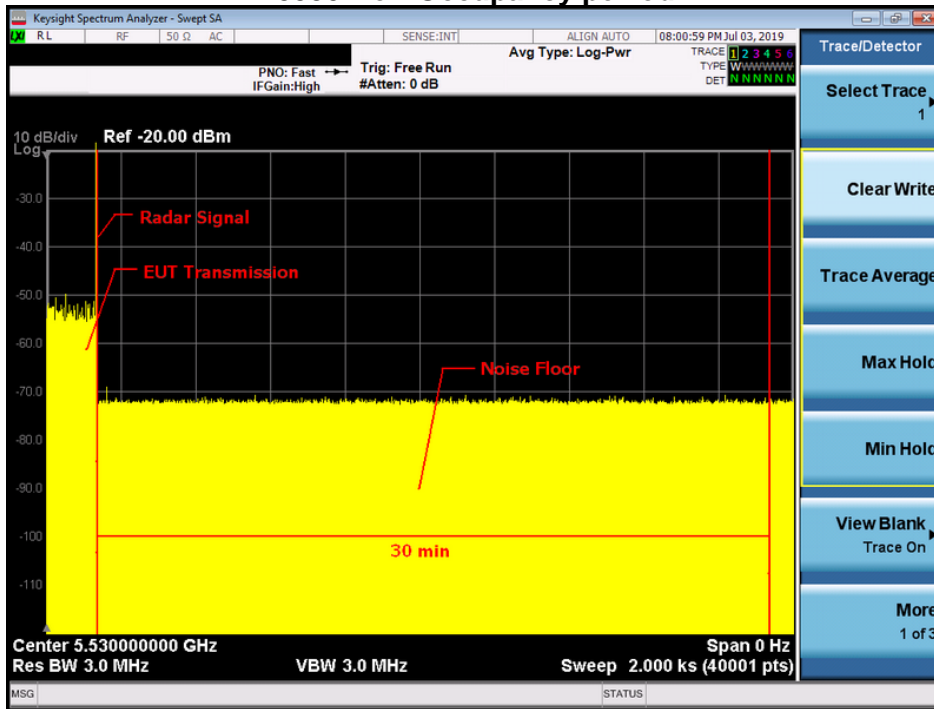
**TX (11a Mode)
5540 Non-Occupancy period**



**TX (11n 40MHz Mode)
5550 Non-Occupancy period**



TX (11ac 80MHz Mode) 5530 Non-Occupancy period



End of Test Report