

FCC&IC DFS Test Report

FCC ID: QISAP5030DN IC: 6369A-AP5030DN

| This report conce | ns (check one): ⊠Original Grant | | |
|---|---|--|--|
| Project No. Equipment Model Name Applicant Address for FCC | 1505C259C Wireless LAN Access Point AP5030DN Huawei Technologies Co.,Ltd. Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District Shenzhen China | | |
| Address for IC | Administration Building, Headquarters of Huawei Technologies Co., Ltd.,Bantian, Longgang District, Shenzhen 518129 China | | |
| Date of Receipt Date of Test Issued Date Tested by | : Jul. 09, 2015 : Jul. 09, 2015 ~ Aug. 17, 2015 : Aug. 18, 2015 : BTL Inc. | | |
| Testing Engineer | : Shawn Xioo (Shawn Xiao) | | |
| Technical Manage | r : David Mao (David Mao) | | |
| Authorized Signa | ory: Seven In | | |

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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BTL's laboratory quality assurance procedures are in compliance with the **ISO Guide17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

| Issued No. | Description | Issued Date |
|----------------------|-----------------|---------------|
| BTL-FICP-3-1505C259C | Original Issue. | Aug. 18, 2015 |

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1. CERTIFICATION

Equipment : Wireless LAN Access Point

Brand Name : HUAWEI Model Name : AP5030DN

Applicant : Huawei Technologies Co.,Ltd. Manufacturer : Huawei Technologies Co.,Ltd.

Address : Administration Building, Huawei Base, Bantian, Longgang District ,Shenzhen

518129, P.R.China

Factory : Huawei Technologies Co.,Ltd.

Address : Huawei Base, Bantian, Longgang District, Shenzhen 518129, P.R.China

Date of Test: : Jul. 09, 2015 ~ Aug. 17, 2015 Test Sample : ENGINEERING SAMPLE

Standard(s) : FCC Part 15, Subpart E (Section 15.407)

RSS-247, Section 6

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-3-1505C259C) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

Test result included in this report is only for the DFS Mode part of the product.

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2. EUT INFORMATION

2.1EUT SPECIFICATION TABLE

Table 1: Specification of EUT

| Product name | Wireless LAN Access Point | |
|--|---------------------------|--|
| Brand Name | HUAWEI | |
| Model | AP5030DN | |
| Operational Mode | Master | |
| Operating FrequencyRange 5260~5320MHz&5500~5700MHz | | |
| Modulation | OFDM | |

| Note: | This device was functioned as a | oxtimeMaster $oxtime$ | Slave device | during the DFS |
|-------|----------------------------------|-----------------------|--------------|----------------|
| | This device supports bridge mode | and mesh me | ode. | |

2.2 DESCRIPTION OF AVAILABLE ANTENNAS TO THE EUT

Antenna Specification:

| Ant. | Manufacturer | Model Name | Antenna Type | Connector | Gain (dBi) | Note |
|------|------------------------------------|--------------|---------------------|-----------|---------------|------|
| Α | Nippon Antenna (China) Co.,LTD. | C15N13Z100BB | Internal Antenna | U.FL | 5.5 | 5G |
| В | Nippon Antenna (China) Co.,LTD. | C15N13Z100BB | Internal Antenna | U.FL | 5.5 | 5G |
| С | Nippon Antenna (China) Co.,LTD. | C15N13Z100BB | Internal Antenna | U.FL | 5.5 | 5G |

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^{1.} The EUT incorporates a MIMO function. Physically, the EUT provides three completed transmitters and receivers (3T3R).

^{2.} ANT B for 1TX was found to be the worst case and recorded.



2.3 CONDUCTED OUTPUT POWER AND EIRP POWER

TABLE 3: THE CONDUCTED OUTPUT POWER LIST

TX (11a)

| FREQUENCY | MAX. POWER | | |
|------------|-------------------|------------------|--|
| BAND (MHz) | OUTPUT POWER(dBm) | OUTPUT POWER(mW) | |
| 5260~5320 | 15.32 | 34.04 | |
| 5500~5700 | 15.22 | 33.27 | |

TX (11n 40MHz)

| FREQUENCY | MAX. POWER | |
|------------|-------------------|------------------|
| BAND (MHz) | OUTPUT POWER(dBm) | OUTPUT POWER(mW) |
| 5270~5310 | 14.82 | 30.34 |
| 5510~5670 | 15.08 | 32.21 |

TX (11ac 80 MHz)

| FREQUENCY | MAX. POWER | |
|------------|-------------------|------------------|
| BAND (MHz) | OUTPUT POWER(dBm) | OUTPUT POWER(mW) |
| 5290 | 12.21 | 16.63 |
| 5530 | 12.06 | 16.07 |

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2.4 EUT MAXIMUM AND MINIMUM E.I.R.P. POWER

TABLE 4: THE MAX EIRP LIST

TX (11a)

| FREQUENCY | MAX. POWER | | |
|------------|-------------------|------------------|--|
| BAND (MHz) | OUTPUT POWER(dBm) | OUTPUT POWER(mW) | |
| 5260~5320 | 20.82 | 120.78 | |
| 5500~5700 | 20.72 | 118.03 | |

TX (11n40MHz)

| FREQUENCY | MAX. POWER | | |
|------------|-------------------|------------------|--|
| BAND (MHz) | OUTPUT POWER(dBm) | OUTPUT POWER(mW) | |
| 5270~5310 | 20.32 | 107.65 | |
| 5510~5670 | 20.58 | 114.29 | |

TX (11ac 80 MHz)

| FREQUENCY | MAX. POWER | | |
|------------|-------------------|------------------|--|
| BAND (MHz) | OUTPUT POWER(dBm) | OUTPUT POWER(mW) | |
| 5290 | 17.71 | 59.02 | |
| 5530 | 17.56 | 57.02 | |

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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 1 and 2 for the applicability of DFS requirements for each of the operational modes.

Table 5: Applicability of DFS requirements prior to use a channel

| | Operational Mode | | | | |
|---------------------------------|------------------|--------------------------------|-----------------------------|--|--|
| Requirement | 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 6: Applicability of DFS requirements during normal operation.

| | Operational Mode | | | | |
|-----------------------------------|------------------|--------------------------------|-----------------------------|--|--|
| Requirement | 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 | ✓ | | |

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3.2 TEST LIMITS AND RADAR SIGNAL PARAMETERS

DETECTION THRESHOLD VALUES

Table 7: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection.

| Maximum Transmit Dawar | Value | |
|---|---------------------|--|
| Maximum Transmit Power | (See Notes 1 and 2) | |
| EIRP≥ 200 milliwatt | -64 dBm | |
| EIRP < 200 milliwatt and | 22.15 | |
| power spectral density < 10 dBm/MHz | -62 dBm | |
| EIRP < 200 milliwatt that do not meet the | 0.4.15 | |
| 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.

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Table 8: 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.

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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 9: Short Pulse Radar Test Waveforms.

| Radar | Pulse | PRI | Number of Pulses | Minimum | Minimum |
|-------------|-------------|--|--|---------------|----------|
| Type | Width | (µsec) | | Percentage of | Number |
| | (µsec) | | | Successful | of |
| | | | | Detection | 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 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 | Roundup $ \begin{cases} $ | 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 |

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.

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Table 10: Long Pulse Radar Test Waveform

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

Table 11: Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (µsec) | Chirp Width (MHz) | PRI (µsec) | Numberof Pulsesper Burst | Numberof Bursts | Minimum Percentage of Successful Detection | Minimum Number ofTrials |
|---------------|--------------------------|-------------------------|---------------|--------------------------------|--------------------|--|-------------------------------|
| 6 | 1 | 333 | 9 | 0.333 | 300 | 70% | 30 |

4. TEST INSTRUMENTS

Table 1: Test instruments list.

| DESCRIPTION | MANUFACTURER | MODEL NO. | Serial No | Calibration Until |
|--------------------------|---------------|--------------|---------------|----------------------|
| EXA Spectrum Analyzer | Agilent | N9010A | MY50520044 | Mar. 28, 2016 |
| Signal Generator | Agilent | E4438C | MY49071316 | Mar. 28, 2016 |
| POWER SPLITTER | Mini-Circuits | ZFRSC-123-S+ | 331000910-1 | Mar. 17, 2016 |
| POWER SPLITTER | Mini-Circuits | ZN4PD1-63-S+ | SF9335D1045-1 | Mar. 04, 2016 |
| Attenuator | WOKEN | 6SM3502 | VAS1214NL | Mar. 10, 2016 |
| Spectrum Analyzer | R&S | FSL 6 | 100423 | Nov. 02, 2015 |

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

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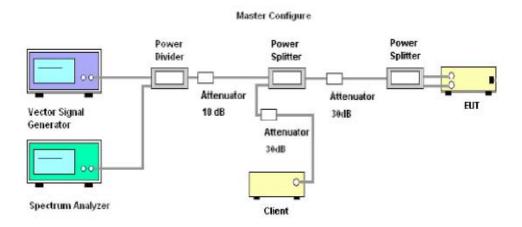


5.EMC EMISSION TEST

5.1DFS MEASUREMENT SYSTEM:

CONDUCTED METHOD SYSTEM BLOCK DIAGRAM

Master Conducted Measurement



SYSTEM OVERVIEW

The short pulse and long pulse signal generating system utilizes the NTIA software. The Vector Signal Generator has been validated by the NTIA. The hopping signal generating system utilizes the CCS simulated hopping method and system, which has been validated by the DoD, FCC and NTIA. The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution.

The short pulse types 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time.

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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.

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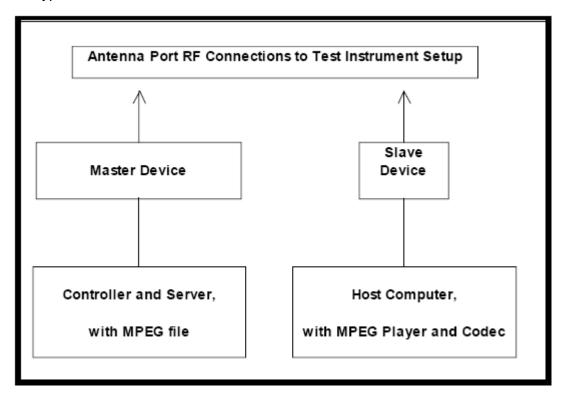
5.2CALIBRATION OF DFS DETECTION THRESHOLD LEVEL:

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 -62 dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. Measure the amplitude and calculate the difference from –62 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 –62 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.

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6. TEST RESULTS

6.1 SUMMARY OF TEST RESULT

| Clause | Test Parameter | Remarks | Pass/Fail |
|--------|-----------------------------------|------------|-----------|
| 15.407 | DFS Detection Threshold | Applicable | Pass |
| 15.407 | Channel Availability Check Time | Applicable | Pass |
| 15.407 | Channel Move Time | Applicable | Pass |
| 15.407 | Channel Closing Transmission Time | Applicable | Pass |
| 15.407 | Non- Occupancy Period | Applicable | Pass |
| 15.407 | Uniform Spreading | Applicable | Pass |
| 15.407 | U-NII Detection Bandwidth | Applicable | Pass |

6.2 DETELED TEST RESULTS

| Clause | Test Parameter | Remarks | Pass/Fail |
|--------|-----------------------------------|------------|-----------|
| 15.407 | DFS Detection Threshold | Applicable | Pass |
| 15.407 | Channel Availability Check Time | Applicable | Pass |
| 15.407 | Channel Move Time | Applicable | Pass |
| 15.407 | Channel Closing Transmission Time | Applicable | Pass |
| 15.407 | Non- Occupancy Period | Applicable | Pass |
| 15.407 | Uniform Spreading | Applicable | Pass |
| 15.407 | U-NII Detection Bandwidth | Applicable | Pass |

6.2.1 TEST MODE: DEVICE OPERATING IN MASTER MODE.

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

6.2.2 DFS DETECTION THRESHOLD

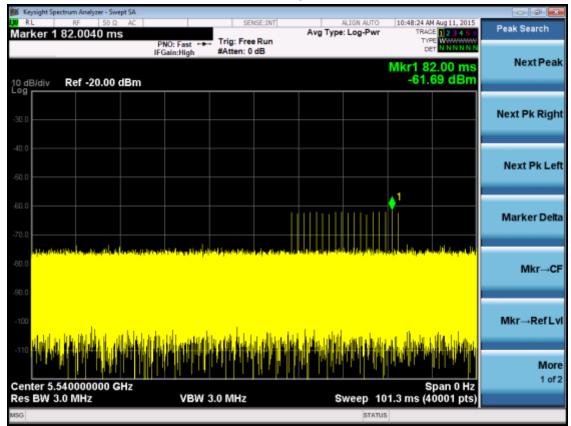
Calibration:

For a detection threshold level of -64dBmand the Master antenna gain is 5.5dBi, required detection threshold is -58.5 dBm (= -64+5.5).

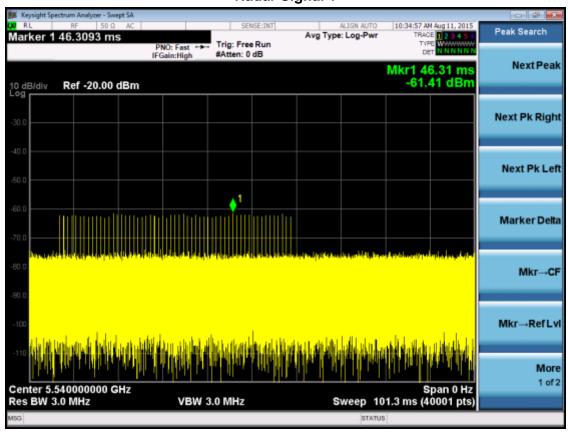
Note: Maximum Transmit Power is more than 200 milliwatt in this report, so detection threshold level is -64dBm (please refer to Table 7 [page 9]).

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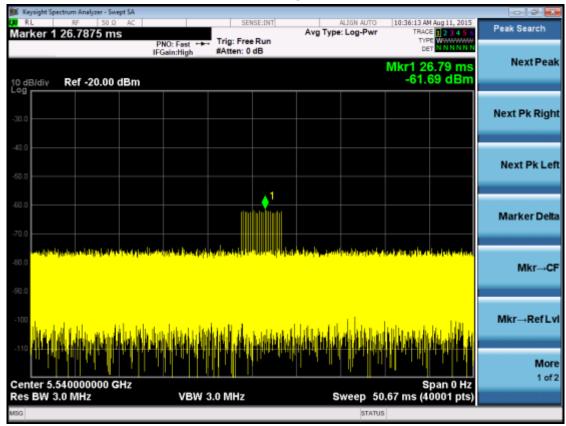




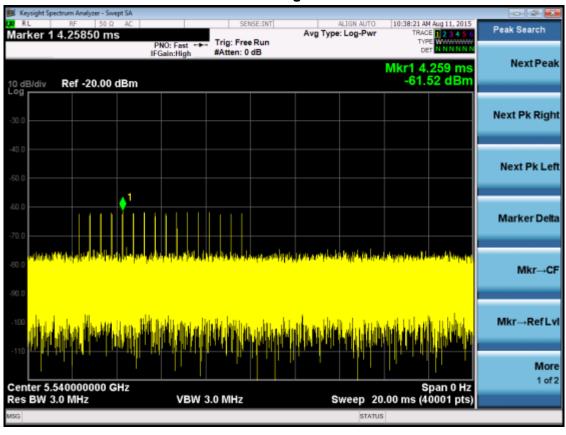
Radar Signal 1



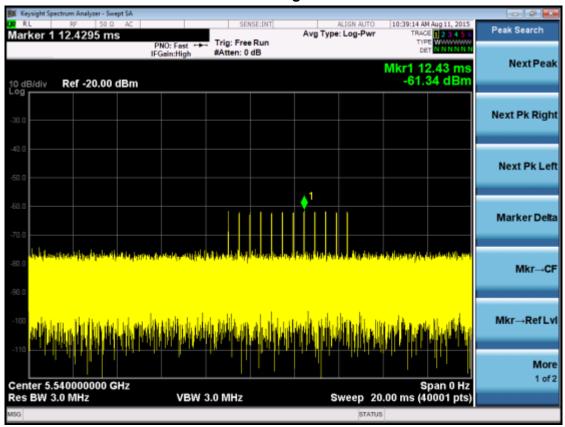




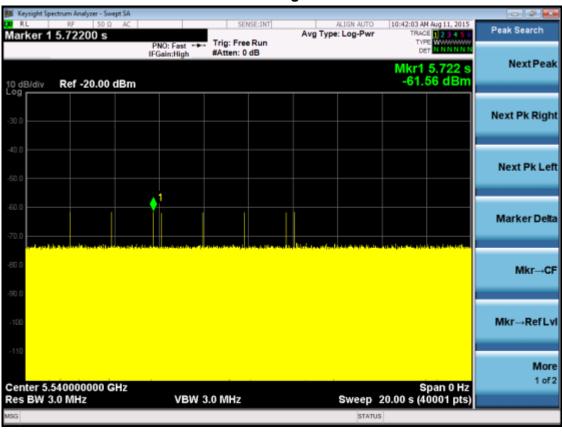
Radar Signal 3



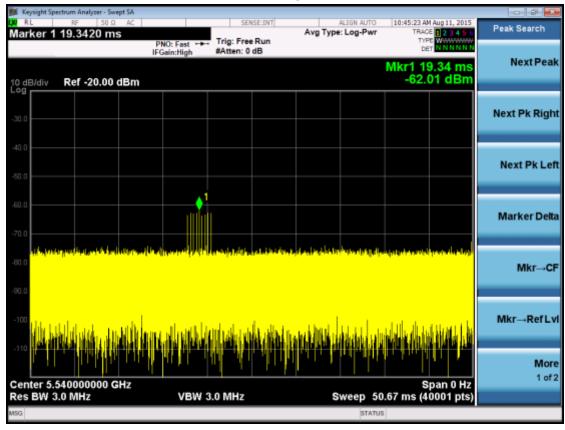




Radar Signal 5







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| Trual ID | Radar Typo | Pulse Width (us) | PRI (us) | Number of Pulses | Wavefirm Length (us) |
|----------|---------------|---------------------|----------|------------------|----------------------------|
| 0 | Type 1 | 1 | 938 | 57 | 53466 |
| 1 | Type 1 | 1 | 698 | 76 | 53048 |
| 2 | Type 1 | 1 | 618 | 86 | 53148 |
| 3 | Type 1 | 1 | 538 | 99 | 53262 |
| 4 | Type 1 | 1 | 878 | 61 | 53558 |
| 5 | Type 1 | 1 | 3066 | 18 | 55188 |
| 6 | Type 1 | 1 | 638 | 83 | 52954 |
| 7 | Type 1 | 1 | 918 | 58 | 53244 |
| 8 | Type 1 | 1 | 838 | 63 | 52794 |
| 9 | Type 1 | 1 | 858 | 62 | 53196 |
| 10 | Type 1 | 1 | 798 | 67 | 53466 |
| 11 | Type 1 | 1 | 718 | 74 | 53132 |
| 12 | Type 1 | 1 | 578 | 92 | 53176 |
| 13 | Type 1 | 1 | 598 | 89 | 53222 |
| 14 | Type 1 | 1 | 558 | 95 | 53010 |
| 15 | Type 1 | 1 | 2536 | 21 | 53256 |
| 16 | Type 1 | 1 | 966 | 55 | 53130 |
| 17 | Type 1 | 1 | 827 | 64 | 52928 |
| 18 | Type 1 | 1 | 2501 | 22 | 55022 |
| 19 | Type 1 | 1 | 2595 | 21 | 54495 |
| 20 | Type 1 | 1 | 1114 | 48 | 53472 |
| 21 | Type 1 | 1 | 1302 | 41 | 53382 |
| 22 | Type 1 | 1 | 3045 | 18 | 54810 |
| 23 | Type 1 | 1 | 1624 | 33 | 53592 |
| 24 | Type 1 | 1 | 2878 | 19 | 54682 |
| 25 | Type 1 | 1 | 1027 | 52 | 53404 |
| 26 | Type 1 | 1 | 2485 | 22 | 54670 |
| 27 | Type 1 | 1 | 1600 | 33 | 52800 |
| 28 | Type 1 | 1 | 1172 | 46 | 53912 |
| 29 | Type 1 | 1 | 1177 | 45 | 52965 |

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| Trual ID | Radar Typo | Pulse Width (us) | PRI (us) | Number of Pulses | Wavefirm Length (us) |
|----------|---------------|---------------------|----------|------------------|----------------------------|
| 0 | Type 2 | 3.2 | 179 | 26 | 4654 |
| 1 | Type 2 | 1.1 | 207 | 23 | 4761 |
| 2 | Type 2 | 2.1 | 230 | 24 | 5520 |
| 3 | Type 2 | 4.8 | 200 | 29 | 5800 |
| 4 | Type 2 | 3.9 | 214 | 28 | 5992 |
| 5 | Type 2 | 2.9 | 222 | 26 | 5772 |
| 6 | Type 2 | 3.2 | 204 | 26 | 5304 |
| 7 | Type 2 | 2.5 | 192 | 25 | 4800 |
| 8 | Type 2 | 3.1 | 164 | 26 | 4264 |
| 9 | Type 2 | 1.2 | 156 | 23 | 3588 |
| 10 | Type 2 | 3.9 | 210 | 27 | 5670 |
| 11 | Type 2 | 4.6 | 201 | 29 | 5829 |
| 12 | Type 2 | 3.2 | 162 | 26 | 4212 |
| 13 | Type 2 | 2.2 | 197 | 25 | 4925 |
| 14 | Type 2 | 4.5 | 163 | 29 | 4727 |
| 15 | Type 2 | 3 | 203 | 26 | 5278 |
| 16 | Type 2 | 5 | 168 | 29 | 4872 |
| 17 | Type 2 | 2.4 | 217 | 25 | 5425 |
| 18 | Type 2 | 2.9 | 191 | 26 | 4966 |
| 19 | Type 2 | 2.3 | 166 | 25 | 4150 |
| 20 | Type 2 | 3.7 | 150 | 27 | 4050 |
| 21 | Type 2 | 2.2 | 176 | 25 | 4400 |
| 22 | Type 2 | 4.9 | 195 | 29 | 5655 |
| 23 | Type 2 | 2.9 | 202 | 26 | 5252 |
| 24 | Type 2 | 2.5 | 178 | 25 | 4450 |
| 25 | Type 2 | 1.1 | 206 | 23 | 4738 |
| 26 | Type 2 | 3.8 | 155 | 27 | 4185 |
| 27 | Type 2 | 4.7 | 157 | 29 | 4553 |
| 28 | Type 2 | 2.4 | 224 | 25 | 5600 |
| 29 | Type 2 | 4.2 | 159 | 28 | 4452 |

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| Trual ID | Radar Typo | Pulse Width (us) | PRI (us) | Number of Pulses | Wavefirm Length (us) |
|----------|---------------|---------------------|----------|------------------|----------------------------|
| 0 | Type 3 | 8.2 | 355 | 17 | 6035 |
| 1 | Type 3 | 6.1 | 487 | 16 | 7792 |
| 2 | Type 3 | 7.1 | 344 | 16 | 5504 |
| 3 | Type 3 | 9.8 | 288 | 18 | 5184 |
| 4 | Type 3 | 8.9 | 230 | 18 | 4140 |
| 5 | Type 3 | 7.9 | 432 | 17 | 7344 |
| 6 | Type 3 | 8.2 | 207 | 17 | 3519 |
| 7 | Type 3 | 7.5 | 443 | 17 | 7531 |
| 8 | Type 3 | 8.1 | 439 | 17 | 7463 |
| 9 | Type 3 | 6.2 | 223 | 16 | 3568 |
| 10 | Type 3 | 8.9 | 208 | 18 | 3744 |
| 11 | Type 3 | 9.6 | 463 | 18 | 8334 |
| 12 | Type 3 | 8.2 | 441 | 17 | 7497 |
| 13 | Type 3 | 7.2 | 323 | 16 | 5168 |
| 14 | Type 3 | 9.5 | 297 | 18 | 5346 |
| 15 | Type 3 | 8 | 412 | 17 | 7004 |
| 16 | Type 3 | 10 | 324 | 18 | 5832 |
| 17 | Type 3 | 7.4 | 271 | 17 | 4607 |
| 18 | Type 3 | 7.9 | 349 | 17 | 5933 |
| 19 | Type 3 | 7.3 | 409 | 16 | 6544 |
| 20 | Type 3 | 8.7 | 373 | 18 | 6714 |
| 21 | Type 3 | 7.2 | 254 | 16 | 4064 |
| 22 | Type 3 | 9.9 | 274 | 18 | 4932 |
| 23 | Type 3 | 7.9 | 278 | 17 | 4726 |
| 24 | Type 3 | 7.5 | 317 | 17 | 5389 |
| 25 | Type 3 | 6.1 | 260 | 16 | 4160 |
| 26 | Type 3 | 8.8 | 211 | 18 | 3798 |
| 27 | Type 3 | 9.7 | 272 | 18 | 4896 |
| 28 | Type 3 | 7.4 | 264 | 17 | 4488 |
| 29 | Type 3 | 9.2 | 284 | 18 | 5112 |

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| Trual ID | Radar Typo | Pulse Width (us) | PRI (us) | Number of Pulses | Wavefirm Length (us) |
|----------|---------------|---------------------|----------|------------------|----------------------------|
| 0 | Type 4 | 16 | 355 | 14 | 4970 |
| 1 | Type 4 | 11.3 | 487 | 12 | 5844 |
| 2 | Type 4 | 13.5 | 344 | 13 | 4472 |
| 3 | Type 4 | 19.4 | 288 | 16 | 4608 |
| 4 | Type 4 | 17.5 | 230 | 15 | 3450 |
| 5 | Type 4 | 15.3 | 432 | 14 | 6048 |
| 6 | Type 4 | 15.9 | 207 | 14 | 2898 |
| 7 | Type 4 | 14.3 | 443 | 13 | 5759 |
| 8 | Type 4 | 15.8 | 439 | 14 | 6146 |
| 9 | Type 4 | 11.5 | 223 | 12 | 2676 |
| 10 | Type 4 | 17.4 | 208 | 15 | 3120 |
| 11 | Type 4 | 19 | 463 | 16 | 7408 |
| 12 | Type 4 | 16 | 441 | 14 | 6174 |
| 13 | Type 4 | 13.8 | 323 | 13 | 4199 |
| 14 | Type 4 | 18.9 | 297 | 16 | 4752 |
| 15 | Type 4 | 15.5 | 412 | 14 | 5768 |
| 16 | Type 4 | 19.9 | 324 | 16 | 5184 |
| 17 | Type 4 | 14.1 | 271 | 13 | 3523 |
| 18 | Type 4 | 15.2 | 349 | 14 | 4886 |
| 19 | Type 4 | 13.8 | 409 | 13 | 5317 |
| 20 | Type 4 | 17.1 | 373 | 15 | 5595 |
| 21 | Type 4 | 13.8 | 254 | 13 | 3302 |
| 22 | Type 4 | 19.8 | 274 | 16 | 4384 |
| 23 | Type 4 | 15.3 | 278 | 14 | 3892 |
| 24 | Type 4 | 14.5 | 317 | 13 | 4121 |
| 25 | Type 4 | 11.3 | 260 | 12 | 3120 |
| 26 | Type 4 | 17.3 | 211 | 15 | 3165 |
| 27 | Type 4 | 19.2 | 272 | 16 | 4352 |
| 28 | Type 4 | 14.2 | 264 | 13 | 3432 |
| 29 | Type 4 | 18.2 | 284 | 15 | 4260 |

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| Trual ID | Radar Typo | Pulse Width (us) | PRI (us) | Number of Pulses | |
|----------|------------|------------------|----------|------------------|--|
| 0 | Type 5 | 15 | 0.80 | 12 | |
| 1 | Type 5 | 8 | 1.50 | 12 | |
| 2 | Type 5 | 11 | 1.09 | 12 | |
| 3 | Type 5 | 20 | 0.60 | 12 | |
| 4 | Type 5 | 17 | 0.71 | 12 | |
| 5 | Type 5 | 14 | 0.86 | 12 | |
| 6 | Type 5 | 15 | 0.80 | 12 | |
| 7 | Type 5 | 12 | 1.00 | 12 | |
| 8 | Type 5 | 14 | 0.86 | 12 | |
| 9 | Type 5 | 8 | 1.50 | 12 | |
| 10 | Type 5 | 17 | 0.71 | 12 | |
| 11 | Type 5 | 19 | 0.63 | 12 | |
| 12 | Type 5 | 15 | 0.80 | 12 | |
| 13 | Type 5 | 12 | 1.00 | 12 | |
| 14 | Type 5 | 19 | 0.63 | 12 | |
| 15 | Type 5 | 14 | 0.86 | 12 | |
| 16 | Type 5 | 20 | 0.60 | 12 | |
| 17 | Type 5 | 12 | 1.00 | 12 | |
| 18 | Type 5 | 14 | 0.86 | 12 | |
| 19 | Type 5 | 12 | 1.00 | 12 | |
| 20 | Type 5 | 16 | 0.75 | 12 | |
| 21 | Type 5 | 12 | 1.00 | 12 | |
| 22 | Type 5 | 20 | 0.60 | 12 | |
| 23 | Type 5 | 14 | 0.86 | 12 | |
| 24 | Type 5 | 13 | 0.92 | 12 | |
| 25 | Type 5 | 8 | 1.50 | 12 | |
| 26 | Type 5 | 17 | 0.71 | 12 | |
| 27 | Type 5 | 19 | 0.63 | 12 | |
| 28 | Type 5 | 12 | 1.00 | 12 | |
| 29 | Type 5 | 18 | 0.67 | 12 | |

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| Trual ID | Radar Typo | Pulse Width (µs) | PRI (µs) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (ms) | Number of Pulses |
|----------|---------------|------------------------|----------|-------------------|--------------------------|---------------------------------------|---------------------|
| 0 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 16 |
| 1 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 10 |
| 2 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 14 |
| 3 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 19 |
| 4 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 15 |
| 5 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 18 |
| 6 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 14 |
| 7 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 14 |
| 8 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 21 |
| 9 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 15 |
| 10 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 16 |
| 11 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 24 |
| 12 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 13 |
| 13 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 20 |
| 14 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 17 |
| 15 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 20 |
| 16 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 16 |
| 17 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 18 |
| 18 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 14 |
| 19 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 16 |
| 20 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 20 |
| 21 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 19 |
| 22 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 23 |
| 23 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 17 |
| 24 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 16 |
| 25 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 13 |
| 26 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 13 |
| 27 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 18 |
| 28 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 19 |
| 29 | Type 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 20 |

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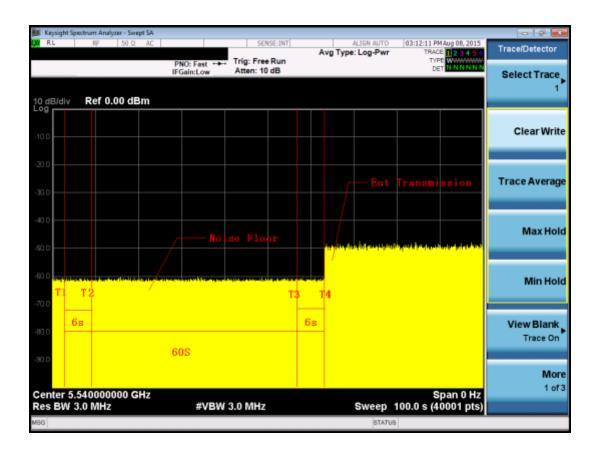


6.2.3 CHANNEL AVAILABILITY CHECK TIME

If the UUT successfully detected the radar burst, it should be observed as the UUT has no transmissions occurred until the UUT starts transmitting on another channel.

11a Mode

Initial Channel Availability Check Time

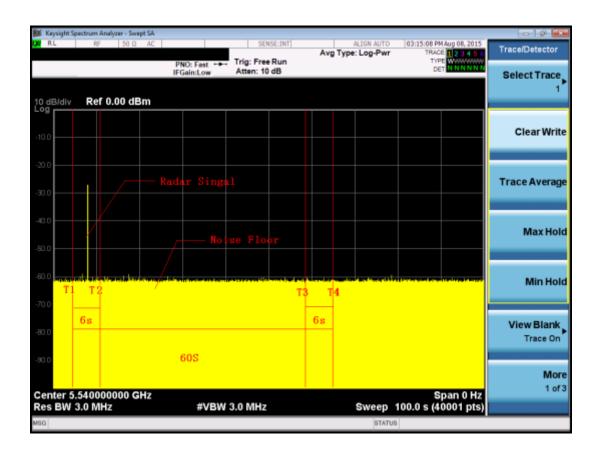


Note:T1 denotes the end of power-up time period is 6 second.

T4 denotes the end of Channel Availability Check time is 66 second. Channel Availability Check time is equal to (T4-T1) 60 seconds.



11a ModeRadar Burst at the Beginning of the Channel Availability Check Time



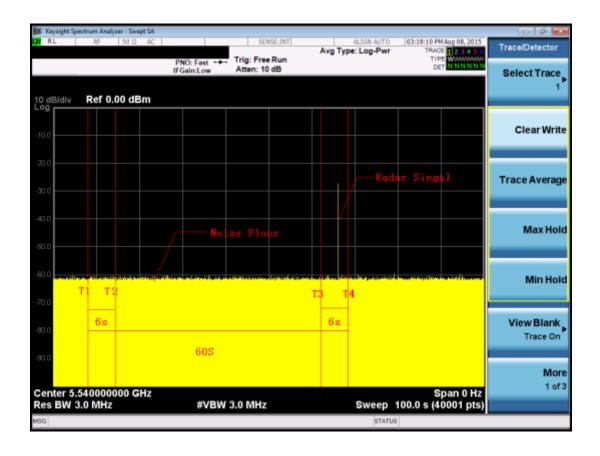
Note: T1 denotes the end of power up time period is 6 second.

T2 denotes 12 second. the radar burst was commenced within a 6 second window starting from the end of power-up sequence.

T4 denotes the 66 second.



11a ModeRadar Burst at the End of the Channel Availability Check Time



Note: T1 denotes the end of power up time period is 6 second.

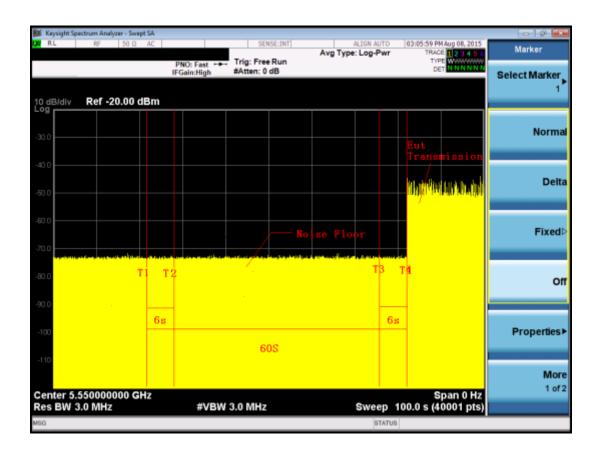
T3 denotes 66 second and radar burst was commenced within 54thsecond to 60thsecondindow starting from the end of power-up sequence.

T4 denotes the 66 second



11n 40MHz Mode

Initial Channel Availability Check Time



Note: T1 denotes the end of power-up time period is 6 second.

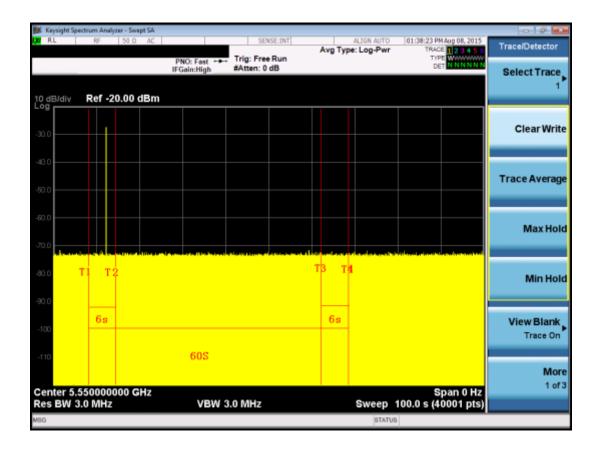
T4 denotes the end of Channel Availability Check time is 66 second. Channel Availability Check time is equal to (T4 - T1) 60 seconds.

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11n 40MHz Mode

Radar Burst at the Beginning of the Channel Availability Check Time



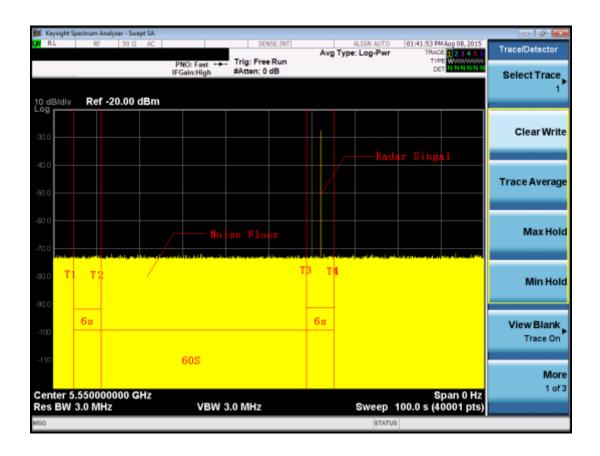
Note: T1 denotes the end of power up time period is 6 second.

T2 denotes 12 second. the radar burst was commenced within a 6 second window starting from the end of power-up sequence.

T4 denotes the 66 second.



11n 40MHz Mode Radar Burst at the End of the Channel Availability Check Time



Note: T1 denotes the end of power up time period is 6 second.

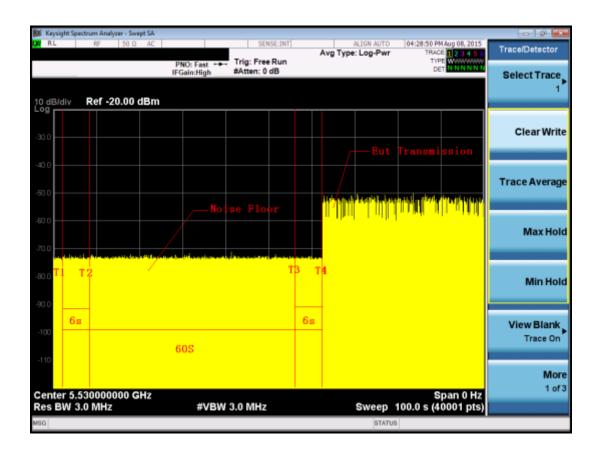
T3 denotes 66 second and radar burst was commenced within 54thsecond to 60thsecondindow starting from the end of power-up sequence.

T4 denotes the 66 second



11ac 80MHz Mode

Initial Channel Availability Check Time



Note: T1 denotes the end of power-up time period is 6 second.

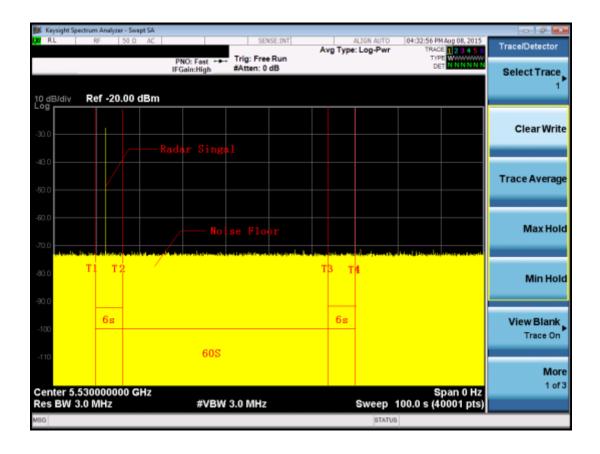
T4 denotes the end of Channel Availability Check time is 66 second. Channel Availability Check time is equal to (T4 - T1) 60 seconds.

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11ac 80MHz Mode

Radar Burst at the Beginning of the Channel Availability Check Time



Note: T1 denotes the end of power up time period is 6 second.

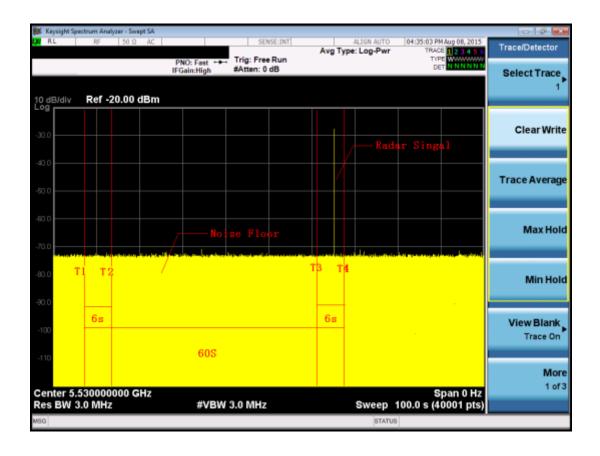
T2 denotes 12 second. the radar burst was commenced within a 6 second window starting from the end of power-up sequence.

T4 denotes the 66 second.



11ac 80MHz Mode

Radar Burst at the End of the Channel Availability Check Time



Note: T1 denotes the end of power up time period is 6 second.

T3 denotes 66 second and radar burst was commenced within 54thsecond to 60thsecondindow starting from the end of power-up sequence.

T4 denotes the 66 second



6.2.4CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME WLAN TRAFFIC

TX (11a Mode)

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type | Pulse Width (µsec) | PRI (µsec) | Number of Pulses | Pass times | Fail times | Percentage ofSuccessful Detection (%) |
|------------|-----------------------|--|---|---------------|---------------|---------------------------------------|
| 1 | 1 | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a 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 | Roundup $ \left[\frac{1}{360} \right]. $ $\left[\frac{19 \cdot 10^6}{PRI_{\mu see}} \right] $ | 27 | 3 | 90 |
| 2 | 1-5 | 150-230 | 23-29 | 27 | 3 | 90 |
| 3 | 6-10 | 200-500 | 16-18 | 26 | 4 | 87 |
| 4 | 11-20 | 200-500 | 12-16 | 26 | 4 | 87 |
| Aggreg | ate (Radar Type | es 1-4) | - | 106 | 14 | 88 |

Table 2: Long Pulse Radar Test Waveform

| Radar Type | Pulse Width (µsec) | Chirp Width (MHz) | PRI (µsec) | Numberof Pulses PerBurst | Numbe rof Bursts | Pass times | Fail times | Percentage of SuccessfulD etection (%) |
|---------------|--------------------------|-------------------------|---------------|--------------------------------|------------------------|---------------|---------------|--|
| 5 | 50-100 | 5-20 | 1000-2000 | 1-3 | 8-20 | 26 | 4 | 87 |

Table 3: Frequency Hopping Radar Test Waveform

| Rad ar Type | Pulse Width (µsec) | PRI (µsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Pass times | Fail times | Percentage of SuccessfulD etection (%) |
|-------------------|--------------------------|---------------|----------------------|--------------------------|--------------------------------|---------------|---------------|--|
| 6 | 1 | 333 | 9 | 0.333 | 300 | 27 | 3 | 90 |

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Table 4: Short Pulse Radar Test Waveforms – Bridge Mode

| Radar Type | Pulse Width (µsec) | PRI (µsec) | Number of Pulses | Pass times | Fail times | Percentage ofSuccessful Detection (%) |
|------------|-----------------------|---------------|---------------------|---------------|---------------|---|
| 0 | 1 | 1428 | 18 | 30 | 0 | 100 |

Table 5: Short Pulse Radar Test Waveforms – Mesh Mode

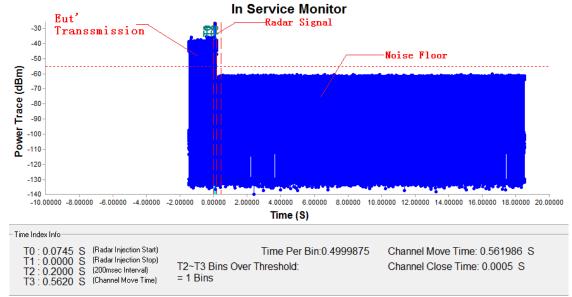
| Radar Type | Pulse Width (µsec) | PRI (µsec) | Number of Pulses | Pass times | Fail times | Percentage ofSuccessful Detection (%) |
|------------|-----------------------|---------------|------------------|---------------|---------------|---------------------------------------|
| 0 | 1 | 1428 | 18 | 30 | 0 | 100 |

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TX (11a Mode)

Radar signal 0

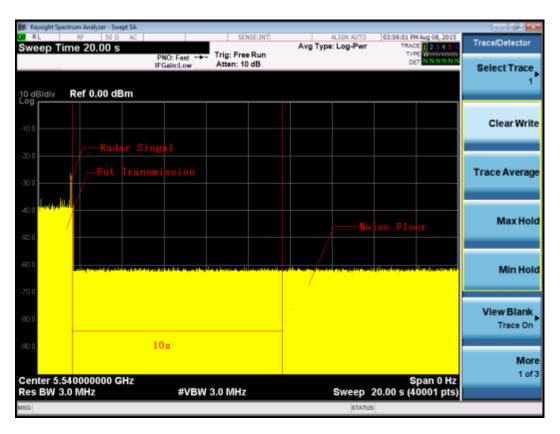


Note: T0 denotes the start of Channel Move Time upon the end of the last Radar burst.

T1 denotes the data transmission time of 200ms from T0.

T2 denotes the end of Channel Move Time.

T3 denotes the 10 second from T0 to observe the aggregate duration of transmissions.



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



TX (11n 40MHz Mode)

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type | Pulse Width (µsec) | PRI (µsec) | Number of Pulses | Pass times | Fail times | Percentage ofSuccessful Detection (%) |
|------------|-----------------------|---|--|---------------|---------------|---|
| 1 | 1 | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a 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 | Roundup $ \left\{ $ | 28 | 2 | 93 |
| 2 | 1-5 | 150-230 | 23-29 | 27 | 3 | 90 |
| 3 | 6-10 | 200-500 | 16-18 | 27 | 3 | 90 |
| 4 | 11-20 | 200-500 | 12-16 | 27 | 3 | 90 |
| Aggreg | jate (Radar Type | s 1-4) | - | 109 | 11 | 91 |

Table 2: Long Pulse Radar Test Waveform

| Rad ar Type | Pulse Width (µsec) | PRI (µsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Pass times | Fail times | Percentage of SuccessfulD etection (%) |
|-------------------|--------------------------|---------------|----------------------|--------------------------|--------------------------------|---------------|---------------|--|
| 5 | 1 | 333 | 9 | 0.333 | 300 | 27 | 3 | 90 |

Table 3: Frequency Hopping Radar Test Waveform

| Rad ar Type | Pulse Width (µsec) | PRI (µsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Pass times | Fail times | Percentage of SuccessfulD etection (%) |
|-------------------|--------------------------|---------------|----------------------|--------------------------|---|---------------|---------------|--|
| 6 | 1 | 333 | 9 | 0.333 | 300 | 28 | 2 | 93 |

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Table 4: Short Pulse Radar Test Waveforms – Bridge Mode

| Radar Type | Pulse Width (µsec) | PRI (µsec) | Number of Pulses | Pass times | Fail times | Percentage ofSuccessful Detection (%) |
|------------|-----------------------|---------------|---------------------|---------------|---------------|---|
| 0 | 1 | 1428 | 18 | 30 | 0 | 100 |

Table 5: Short Pulse Radar Test Waveforms – Mesh Mode

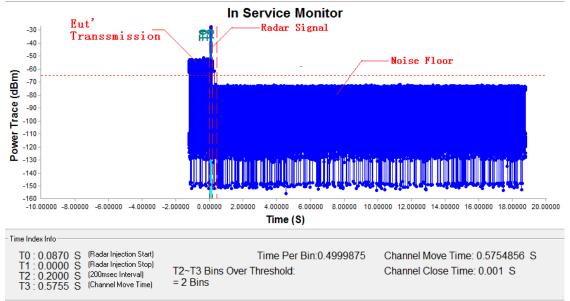
| Radar Type | Pulse Width (µsec) | PRI (µsec) | Number of Pulses | Pass times | Fail times | Percentage ofSuccessful Detection (%) |
|------------|-----------------------|---------------|------------------|---------------|---------------|---|
| 0 | 1 | 1428 | 18 | 30 | 0 | 100 |

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TX (11n 40MHz Mode)

Radar signal 0

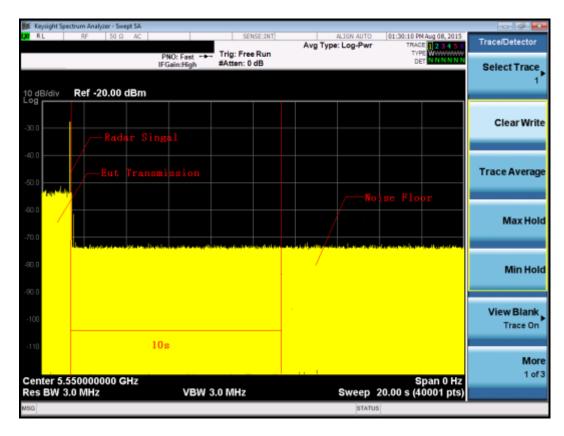


Note: To denotes the start of Channel Move Time upon the end of the last Radar burst.

T1 denotes the data transmission time of 200ms from T0.

T2 denotes the end of Channel Move Time.

T3 denotes the 10 second from T0 to observe the aggregate duration of transmissions.



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



TX (11ac 80MHz Mode)

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type | Pulse Width (µsec) | PRI (µsec) | Number of Pulses | Pass times | Fail times | Percentage of Successful Detection (%) |
|------------|-----------------------|---|--|---------------|---------------|--|
| 1 | 1 | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a 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 | Roundup $ \left\{ $ | 28 | 2 | 93 |
| 2 | 1-5 | 150-230 | 23-29 | 27 | 3 | 90 |
| 3 | 6-10 | 200-500 | 16-18 | 27 | 3 | 90 |
| 4 | 11-20 | 200-500 | 12-16 | 26 | 4 | 87 |
| Aggreg | ate (Radar Type | es 1 -4) | - | 108 | 12 | 90 |

Table 2: Long Pulse Radar Test Waveform

| Radar Type | Pulse Width (µsec) | Chirp Width (MHz) | PRI (µsec) | Numberof Pulses Per Burst | Numbe rof Bursts | Pass times | Fail times | Percentage of SuccessfulD etection (%) |
|---------------|--------------------------|-------------------------|---------------|---------------------------------|------------------------|---------------|---------------|--|
| 5 | 50-100 | 5-20 | 1000-2000 | 1-3 | 8-20 | 27 | 3 | 90 |

Table 3: Frequency Hopping Radar Test Waveform

| Rad ar Type | Pulse Width (µsec) | PRI (µsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Pass times | Fail times | Percentage of SuccessfulD etection (%) |
|-------------------|--------------------------|---------------|----------------------|--------------------------|--------------------------------|---------------|---------------|--|
| 6 | 1 | 333 | 9 | 0.333 | 300 | 28 | 2 | 93 |

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Table 4: Short Pulse Radar Test Waveforms – Bridge Mode

| Radar Type | Pulse Width (µsec) | PRI (µsec) | Number of Pulses | Pass times | Fail times | Percentage ofSuccessful Detection (%) |
|------------|-----------------------|---------------|---------------------|---------------|---------------|---------------------------------------|
| 0 | 1 | 1428 | 18 | 30 | 0 | 100 |

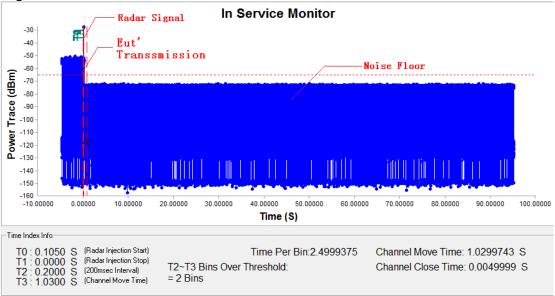
Table 5: Short Pulse Radar Test Waveforms – Mesh Mode

| Radar Type | Pulse Width (µsec) | PRI (µsec) | Number of Pulses | Pass times | Fail times | Percentage ofSuccessful Detection (%) |
|------------|-----------------------|---------------|---------------------|---------------|---------------|---------------------------------------|
| 0 | 1 | 1428 | 18 | 30 | 0 | 100 |

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TX (11ac 80MHz Mode) Radar signal 0

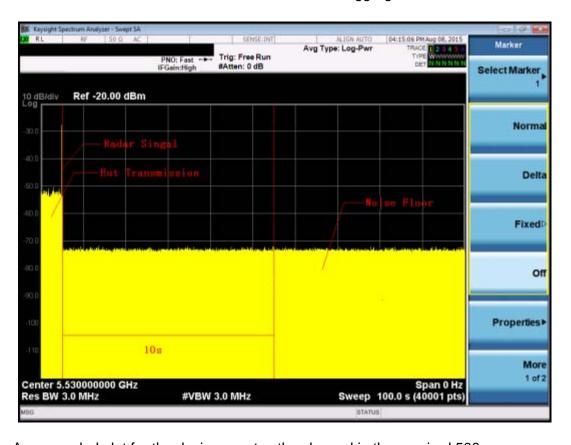


Note: To denotes the start of Channel Move Time upon the end of the last Radar burst.

T1 denotes the data transmission time of 200ms from T0.

T2 denotes the end of Channel Move Time.

T3 denotes the 10 second from T0 to observe the aggregate duration of transmissions.

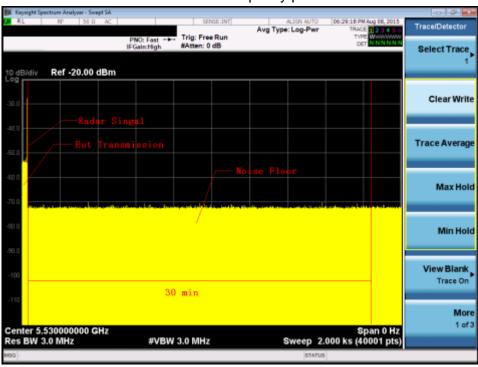


Note: An expanded plot for the device vacates the channel in the required 500ms



6.2.5 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.

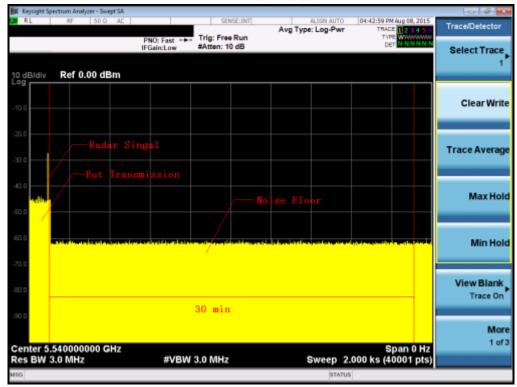


5530 Non-Occupancy perrod

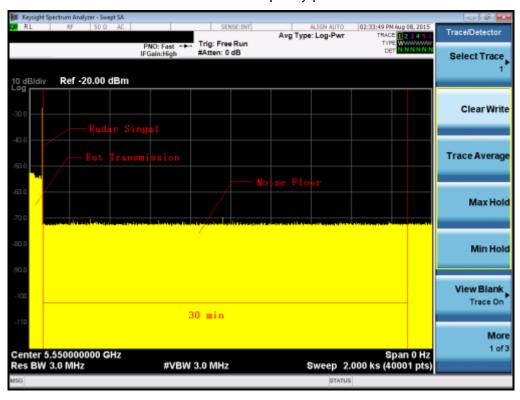
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5540 Non-Occupancy perrod



5550 Non-Occupancy perrod





6.2.6 UNIFORM SPREADING

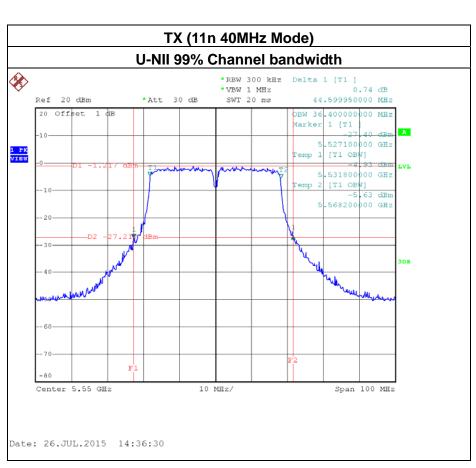
The intention of the uniform spreading is to provide, on aggregate, a uniform loading of the spectrum. The UUT using the bands 5250 to 5350MHz and 5470 to 5600 MHz channels so that the probability of selecting a given channel shall be the same for channels. The UUT will select channel by random mode and remember this channel when detect radar signal, so that will select unused channel by random mode.

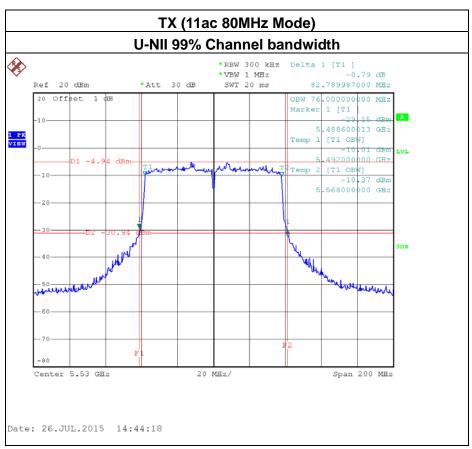
6.2.7 U-NII DETECTION BANDWIDTH



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11a Mode

| vioue | | | | | | | | | | | |
|----------------------|-----------|------------|-----------|-------------|-------------|-------------|------------|---------|---|----|--------------------|
| | | | | Detection | Bandwith t | est tranmis | ssion 20M | | | | |
| EUT FREQUENCY | | 5540M | | | | | | | | | |
| EUT power bandwith | 1 | 17 | | | | | | | | | |
| Detection Bandwith I | imit(100% | of EUT 999 | 6 Power b | andwith) | 16.83 | | | | | | |
| Detection Bandwith(| | | | | | | | | | | |
| Test Result | PASS | | | | | | | | | | |
| | | | DES | Detection 1 | Trials (1=D | etection, 0 |)= No Dete | ection) | | | |
| Radar Freq (MHz) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Detection Rate (%) |
| 5529 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 40 |
| 5530 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 50 |
| 5531(FL) | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 90 |
| 5532 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5533 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5534 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5535 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5536 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5537 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5538 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5539 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5540 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5541 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5542 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5543 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5544 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5545 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5546 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5547 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5548 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 90 |
| 5549(FH) | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 80 |
| 5550 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 50 |
| 5551 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 50 |

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11n 40MHz Mode

| | Detection Bandwith test tranmission 40M | | | | | | | | | | | | |
|------------------------|---|-----------|--------|----------------|------------|-----------|----------|----------|---|----|--------------------|--|--|
| EUT FREQUENCY 5550M | | | | | | | | | | | | | |
| EUT power bandwith | | 36.4MHz | , | | | | | | | | | | |
| | m:#/4.000/ | | | s la an duriti | -1 | 00.000 | | | | | | | |
| Detection Bandwith lin | | | | | 1) | 36.036 | | | | | | | |
| Detection Bandwith(5 | | -5531(FL) |) | 36 | | | | | | | | | |
| Test Result | PASS | | | | | | | | | | | | |
| | | | DFS De | etection T | rials (1=D | etection, | 0= No De | tection) | | | | | |
| Radar Freq (MHz) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Detection Rate (%) | | |
| 5529 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 50 | | |
| 5530 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 60 | | |
| 5531(FL) | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 90 | | |
| 5532 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5533 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5534 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5535 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5536 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5537 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5538 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5539 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5540 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5541 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5542 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5543 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5544 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5545 5546 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 100 | | |
| 5546 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 5547 5548 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 100 | | |
| 5549 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5550 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5551 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5552 | -i- | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5553 | -i- | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5554 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5555 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5556 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5557 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5558 | -i- | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5559 | -i- | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5560 | -i | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5561 | -i- | 1 | 1 | 1 | 1 | <u>i</u> | 1 | 1 | 1 | 1 | 100 | | |
| 5562 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5563 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5564 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5565 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5566 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5567 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5568 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | | |
| 5569(FL) | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 90 | | |
| 5570 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 50 | | |
| 5571 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 40 | | |

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11ac 80MHz Mode

| Detection Bandwith t | est trann | nission | 80M | | | | | | | | | |
|----------------------|-----------|---------|----------|-----------|-----------|-----------|----------|-----------|----------|----------|--------------------|--|
| EUT FREQUENCY | 5530M | | | | | | | | | | | |
| EUT power bandwith | | 76 | | | | | | | | | | |
| Detection Bandwith I | | %of EUT | 99% Po | wer band | dwith) | 75.24 | | | | | | |
| Detection Bandwith(| | | | 76 | | | | | | | | |
| Test Result | PASS | , | _// | | | | | | | | | |
| TOST NOSUIT | 1 700 | | DES Det | ection Tr | iale /1=F | Detection | 0= No I | Detection |) | | | |
| Radar Freq (MHz) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Detection Rate (%) | |
| 5489 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 30 | |
| 5490 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 30 | |
| 5491 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 30 | |
| 5492(FL) | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 90 | |
| 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 5502 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 100 | |
| 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 5524 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 100 | |
| 5525 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | |
| 5526 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | |
| 5527 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | |
| 5528 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | |
| 5529 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | |
| 5530 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | |
| 5531 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | |
| 5532 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | |
| 5533 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | |
| 5534 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | |
| 5535 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | |
| 5536 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | |
| 5537 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | |
| 5538 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | |
| 5539 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | |
| 5540 5541 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 100 | |
| 5542 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | |
| 5543 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | |
| 0040 | <u> </u> | | <u> </u> | | <u> </u> | - | <u>'</u> | <u> </u> | <u> </u> | <u> </u> | 100 | |

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| 5544 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|----------|---|---|---|---|---|---|---|---|---|---|-----|
| 5545 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5546 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5547 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5548 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5549 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5550 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5551 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5552 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5553 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5554 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5555 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5556 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5557 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5558 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5559 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5560 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5561 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5562 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5563 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5564 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5565 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5566 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5567 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5568(FL) | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 90 |
| 5569 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 5570 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 5571 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |

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