

## 7.6 Channel Move Time

Test Requirement KDB 905462 D02 Section 5.1

Test Method: KDB 905462 D02 Section 7.8.3

Limit:

| Test item                         | Limit   | Applicability                                |                                |
|-----------------------------------|---|--|--------------------------------|
|                                   |   | Master Device or client with Radar Detection | Client without Radar Detection |
| Non-occupancy period              | Minimum 30 minutes  | Yes  | Not required                   |
| Channel Availability Check Time   | 60 seconds  | Yes  | Not required                   |
| Channel Move Time                 | 10 seconds<br>See Note 1.   | Yes  | Yes                            |
| Channel Closing Transmission Time | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.<br>See Notes 1 and 2. | Yes  | Yes                            |
| U-NII Detection Bandwidth         | Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.                                   | Yes  | Not required                   |

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.

### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C      Humidity: 53.9 % RH      Atmospheric Pressure: 1020 mbar

### 7.6.2 Test Mode Description

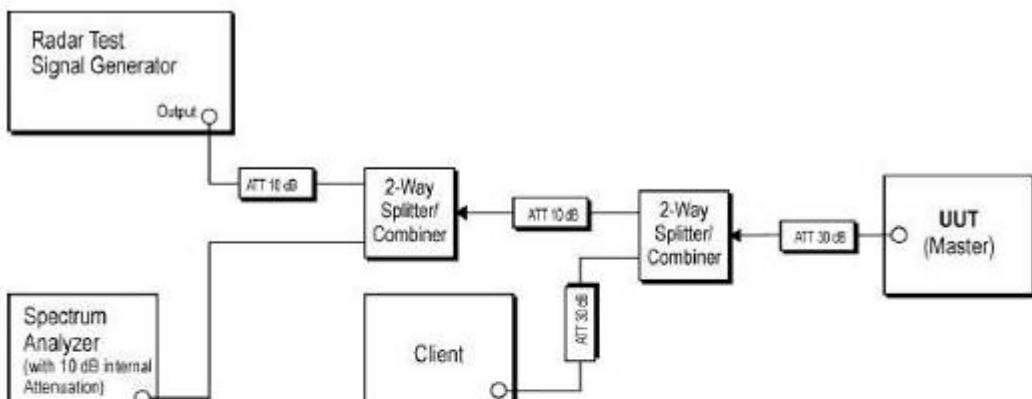
| Pre-scan / Final test | Mode Code | Description                         |
|-----------------------|-----------|-------------------------------------|
| Final test            | 00        | On mode, keep EUT working normally. |

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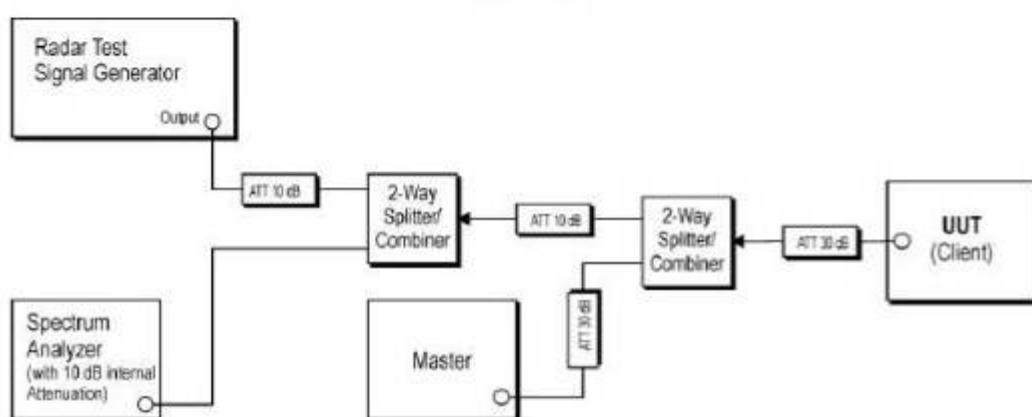
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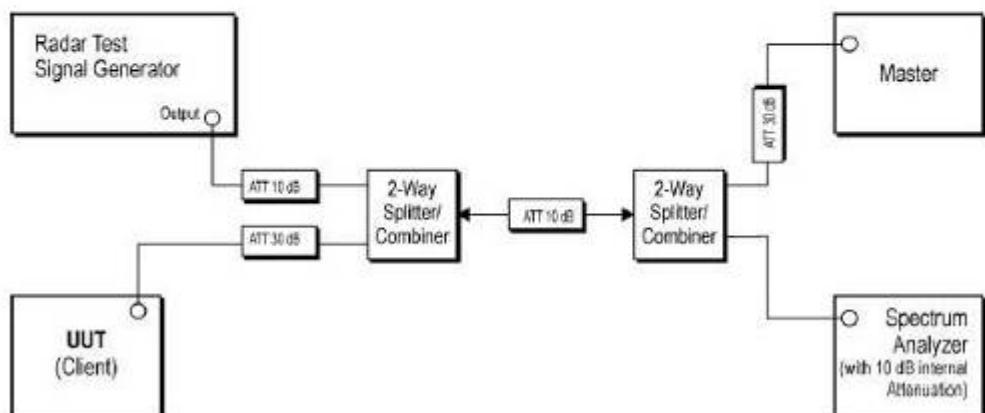
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**7.6.3 Test Setup Diagram**


DFS master



DFS slave with radar detection



DFS slave without radar detection

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**7.6.4 Measurement Procedure and Data**

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =  $S$  (12000ms) /  $B$  (4000); where Dwell is the dwell time per spectrum analyzer sampling bin,  $S$  is sweep time and  $B$  is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by:  $C$  (ms) =  $N$  X Dwell (0.3ms); where  $C$  is the Closing Time,  $N$  is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



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## 7.7 Non-occupancy period

Test Requirement KDB 905462 D02 Section 5.1

Test Method: KDB 905462 D02 Section 7.8.3

Limit:

| Test item                         | Limit   | Applicability                                |                                |
|-----------------------------------|---|--|--------------------------------|
|                                   |   | Master Device or client with Radar Detection | Client without Radar Detection |
| Non-occupancy period              | Minimum 30 minutes  | Yes  | Not required                   |
| Channel Availability Check Time   | 60 seconds  | Yes  | Not required                   |
| Channel Move Time                 | 10 seconds<br>See Note 1.   | Yes  | Yes                            |
| Channel Closing Transmission Time | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.<br>See Notes 1 and 2. | Yes  | Yes                            |
| U-NII Detection Bandwidth         | Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.                                   | Yes  | Not required                   |

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.

### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C      Humidity: 53.9 % RH      Atmospheric Pressure: 1020 mbar

### 7.7.2 Test Mode Description

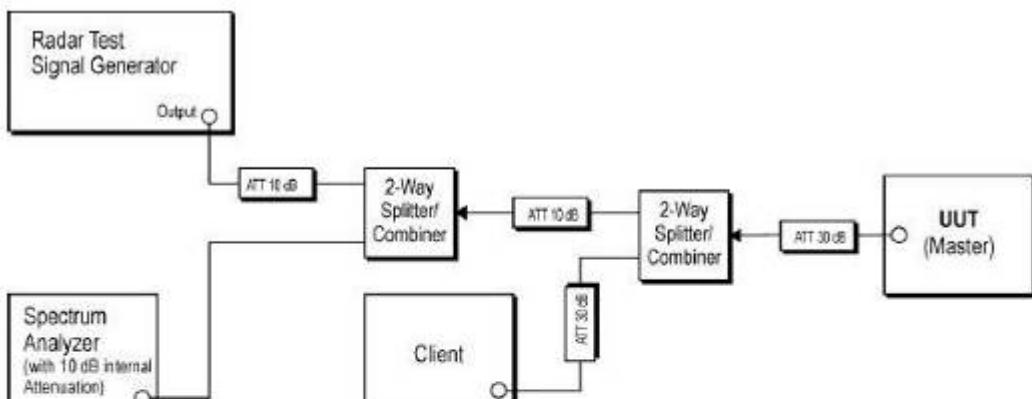
| Pre-scan / Final test | Mode Code | Description                         |
|-----------------------|-----------|-------------------------------------|
| Final test            | 00        | On mode, keep EUT working normally. |

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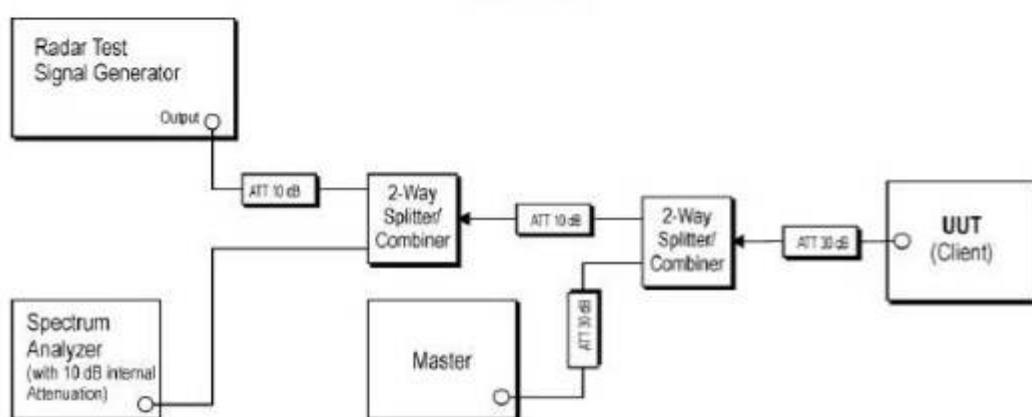
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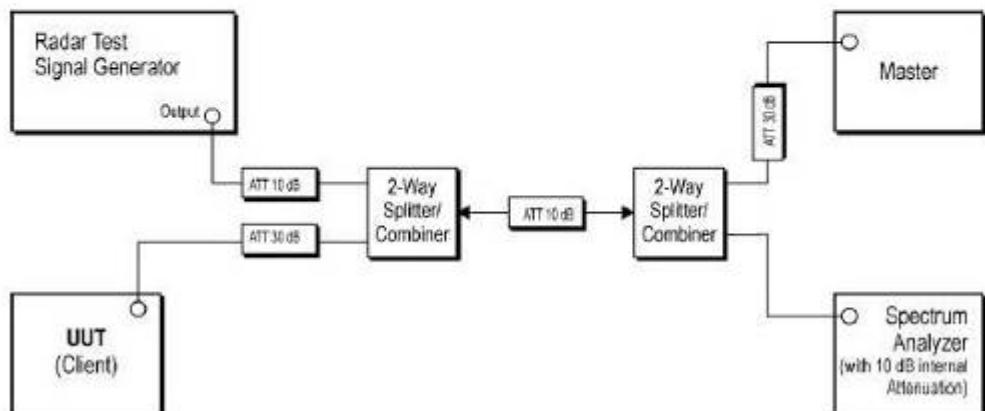
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**7.7.3 Test Setup Diagram**


DFS master



DFS slave with radar detection



DFS slave without radar detection

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**7.7.4 Measurement Procedure and Data**

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =  $S$  (12000ms) /  $B$  (4000); where Dwell is the dwell time per spectrum analyzer sampling bin,  $S$  is sweep time and  $B$  is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by:  $C$  (ms) =  $N$  X Dwell (0.3ms); where  $C$  is the Closing Time,  $N$  is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

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## 7.8 Channel Closing Transmission Time

Test Requirement KDB 905462 D02 Section 5.1

Test Method: KDB 905462 D02 Section 7.8.3

Limit:

| Test item                         | Limit   | Applicability                                |                                |
|-----------------------------------|---|--|--------------------------------|
|                                   |   | Master Device or client with Radar Detection | Client without Radar Detection |
| Non-occupancy period              | Minimum 30 minutes  | Yes  | Not required                   |
| Channel Availability Check Time   | 60 seconds  | Yes  | Not required                   |
| Channel Move Time                 | 10 seconds<br>See Note 1.   | Yes  | Yes                            |
| Channel Closing Transmission Time | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.<br>See Notes 1 and 2. | Yes  | Yes                            |
| U-NII Detection Bandwidth         | Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.                                   | Yes  | Not required                   |

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.

### 7.8.1 E.U.T. Operation

Operating Environment:

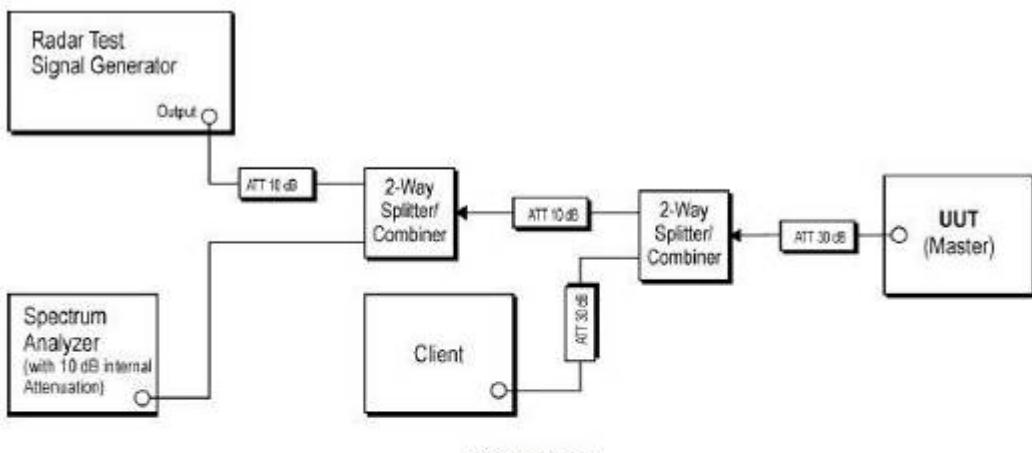
Temperature: 22.5 °C      Humidity: 53.9 % RH      Atmospheric Pressure: 1020 mbar

### 7.8.2 Test Mode Description

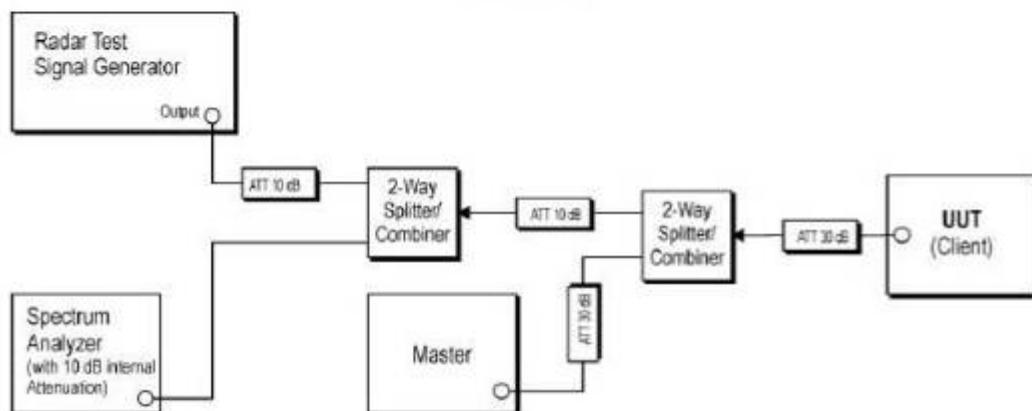
| Pre-scan / Final test | Mode Code | Description                         |
|-----------------------|-----------|-------------------------------------|
| Final test            | 00        | On mode, keep EUT working normally. |

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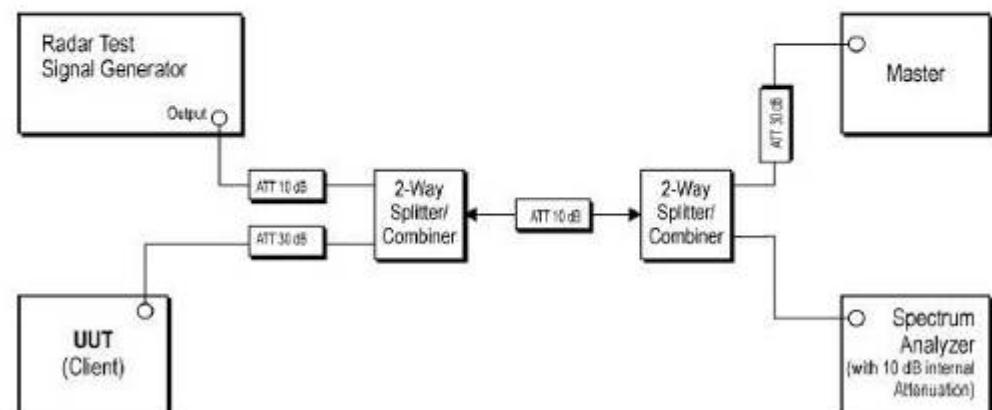
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**7.8.3 Test Setup Diagram**


DFS master



DFS slave with radar detection



DFS slave without radar detection

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**7.8.4 Measurement Procedure and Data**

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =  $S$  (12000ms) /  $B$  (4000); where Dwell is the dwell time per spectrum analyzer sampling bin,  $S$  is sweep time and  $B$  is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by:  $C$  (ms) =  $N$  X Dwell (0.3ms); where  $C$  is the Closing Time,  $N$  is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2408003124AT

## 9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2408003124AT

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SGS Group Laboratory

## 10 Appendix

**Note: only record the worst test result.**

### 1. Contention Based Protocol

#### 1.1 Test Result

##### 1.1.1 DC\_Ant1\_NTNV

| Ant1_NTNV         |         |             |         |                |
|-------------------|---------|-------------|---------|----------------|
| Mode              | TX Type | Freq. (MHz) | RU      | Duty Cycle (%) |
| 802.11ax (HEW20)  | SISO    | 6135        | RU242   | 16.69          |
| 802.11ax (HEW160) | SISO    | 6185        | 2xRU996 | 13.19          |

##### 1.1.2 CBP\_Ant1\_NTNV

| Ant1_NTNV         |         |             |         |        |                           |                      |       | Verdict |  |
|-------------------|---------|-------------|---------|--------|---------------------------|----------------------|-------|---------|--|
| Mode              | TX Type | Freq. (MHz) | RU      | RU Pos | Incumbent Frequency (MHz) | Detected Level (dBm) |       |         |  |
|                   |         |             |         |        |                           | Result               | Limit |         |  |
| 802.11ax (HEW20)  | SISO    | 6135        | RU242   | Left   | 6135.000                  | -66.14               | <=-62 | Pass    |  |
| 802.11ax (HEW160) | SISO    | 6185        | 2xRU996 | Left   | 6110.000                  | -67.51               | <=-62 | Pass    |  |
|                   |         |             |         |        | 6185.000                  | -64.80               | <=-62 | Pass    |  |
|                   |         |             |         |        | 6260.000                  | -67.64               | <=-62 | Pass    |  |
|                   |         |             |         |        |                           |                      |       |         |  |

##### 1.1.3 Data\_Ant1\_NTNV

| Ant1_NTNV         |         |             |         |        |                       |        |       |   |   |   |   |   |   | Verdict |     |                          |       |
|-------------------|---------|-------------|---------|--------|-----------------------|--------|-------|---|---|---|---|---|---|---------|-----|--------------------------|-------|
| Mode              | TX Type | Freq. (MHz) | RU      | RU Pos | Incumbent Freq. (MHz) | 1      | 2     | 3 | 4 | 5 | 6 | 7 | 8 | 9       | 10  | Detected Probability (%) |       |
|                   |         |             |         |        |                       | Result | Limit |   |   |   |   |   |   |         |     | Result                   | Limit |
| 802.11ax (HEW20)  | SISO    | 6135        | RU242   | Left   | 6135.000              | Y      | Y     | Y | Y | Y | Y | Y | Y | Y       | 100 | >=90                     | Pass  |
| 802.11ax (HEW160) | SISO    | 6185        | 2xRU996 | Left   | 6110.000              | Y      | Y     | Y | Y | Y | Y | Y | Y | Y       | 100 | >=90                     | Pass  |
|                   |         |             |         |        | 6185.000              | Y      | Y     | Y | Y | Y | Y | Y | Y | Y       | 100 | >=90                     | Pass  |
|                   |         |             |         |        | 6260.000              | Y      | Y     | N | Y | Y | Y | Y | Y | Y       | 90  | >=90                     | Pass  |
|                   |         |             |         |        |                       |        |       |   |   |   |   |   |   |         |     |                          |       |

Note1: CBP Detection Trials (Y=Detection, N=No Detection)

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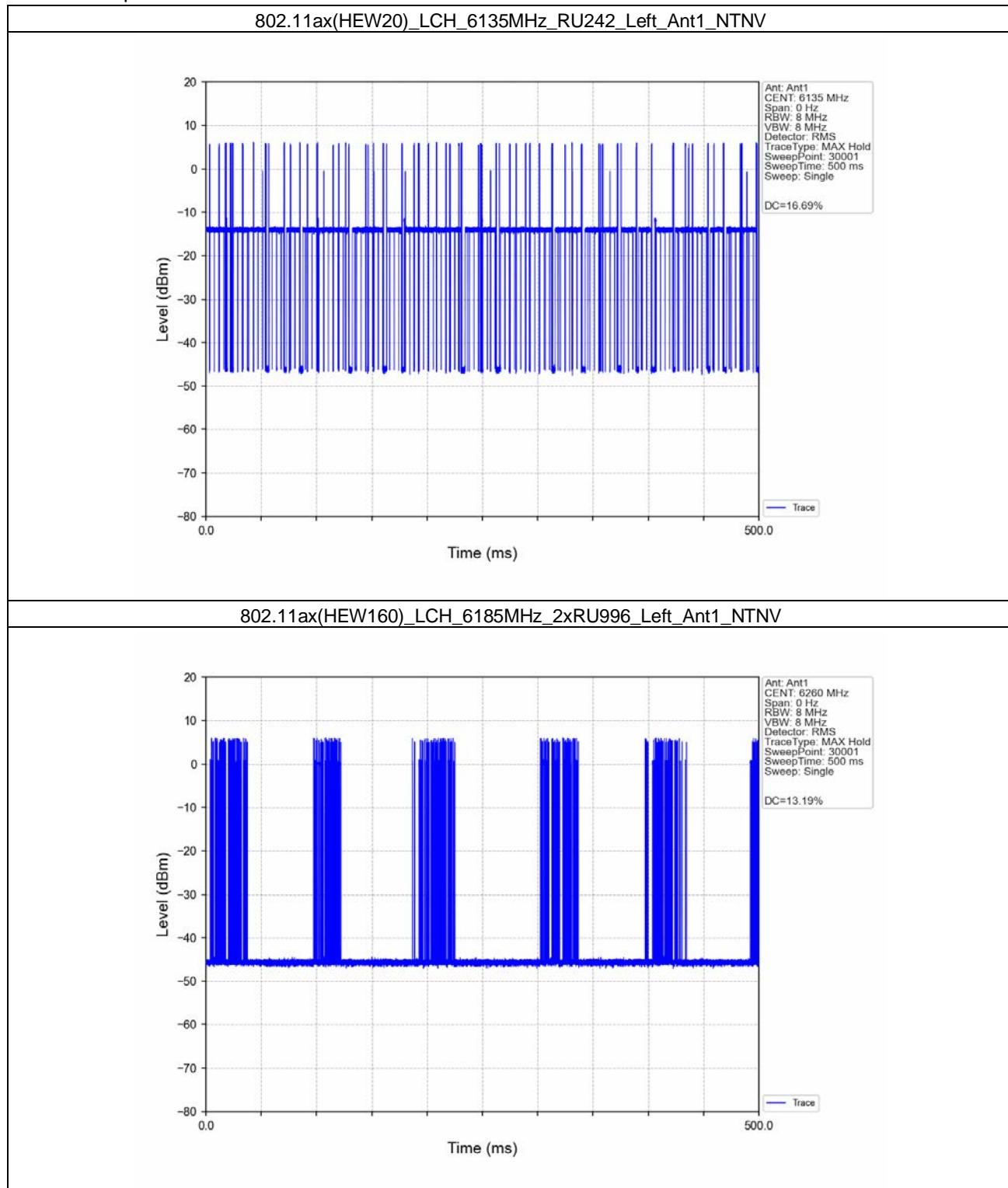
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### 1.2 Test Graph

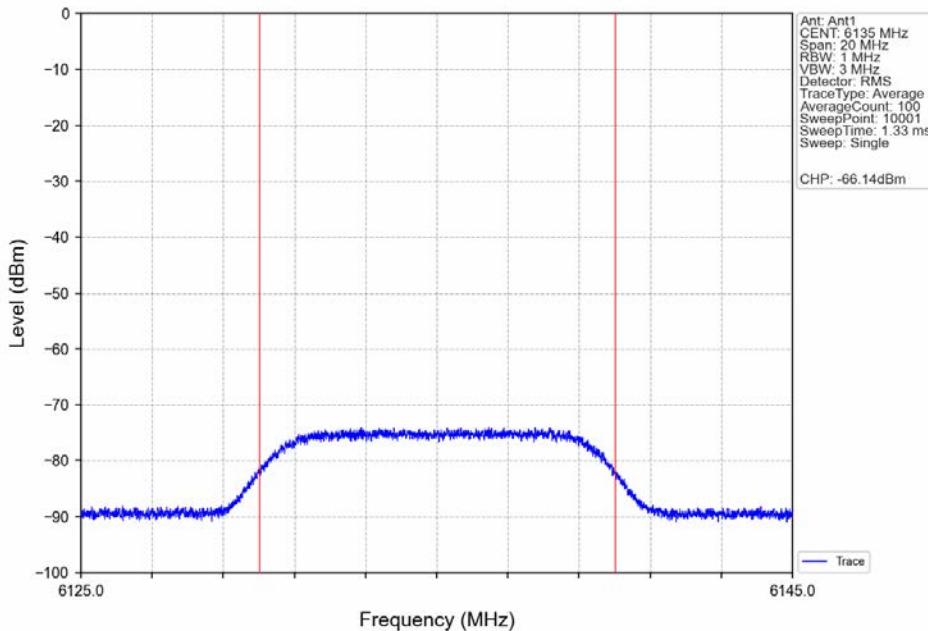


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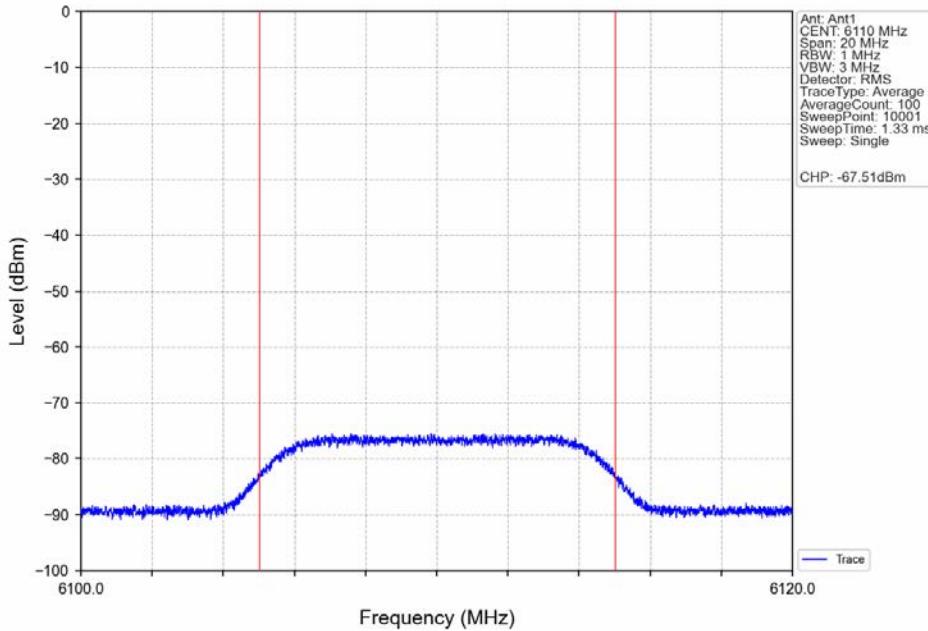
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## 1.2.2 CBP\_Ant1\_NTNV

## 802.11ax(HEW20)\_LCH\_6135MHz\_RU242\_Left\_Ant1\_NTNV



## 802.11ax(HEW160)\_LCH\_6185MHz\_2xRU996\_Left\_Ant1\_NTNV

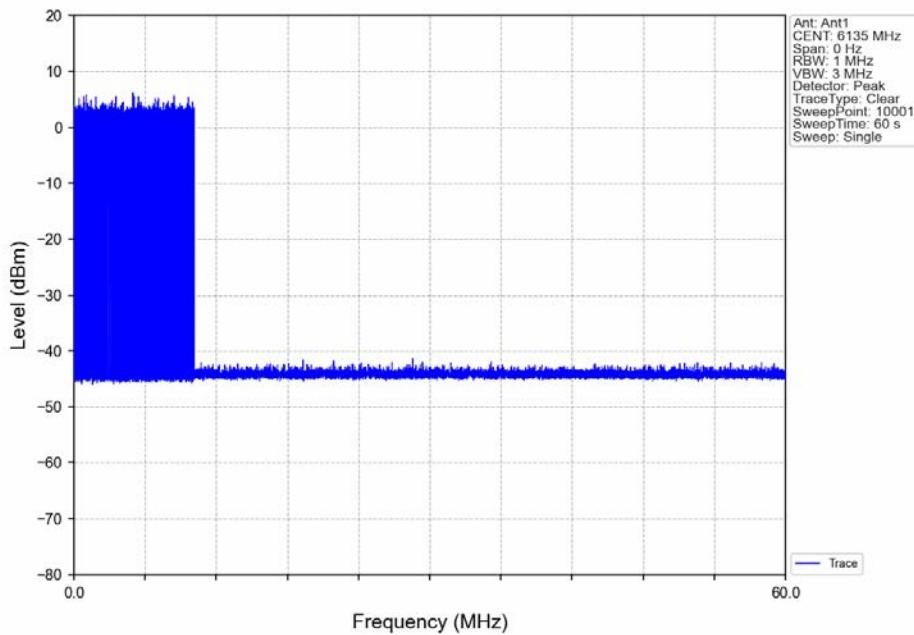


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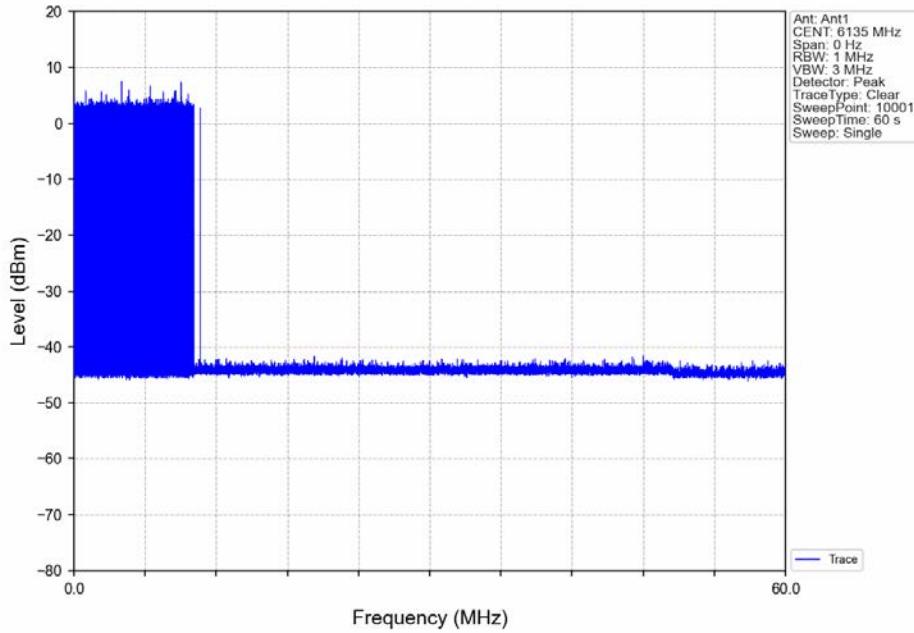
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## 1.2.3 Data\_Ant1\_NTNV

802.11ax(HEW20)\_LCH\_6135MHz\_RU242\_Left\_Ant1\_NTNV



802.11ax(HEW20)\_LCH\_6135MHz\_RU242\_Left\_Ant1\_NTNV



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## 2. DFS

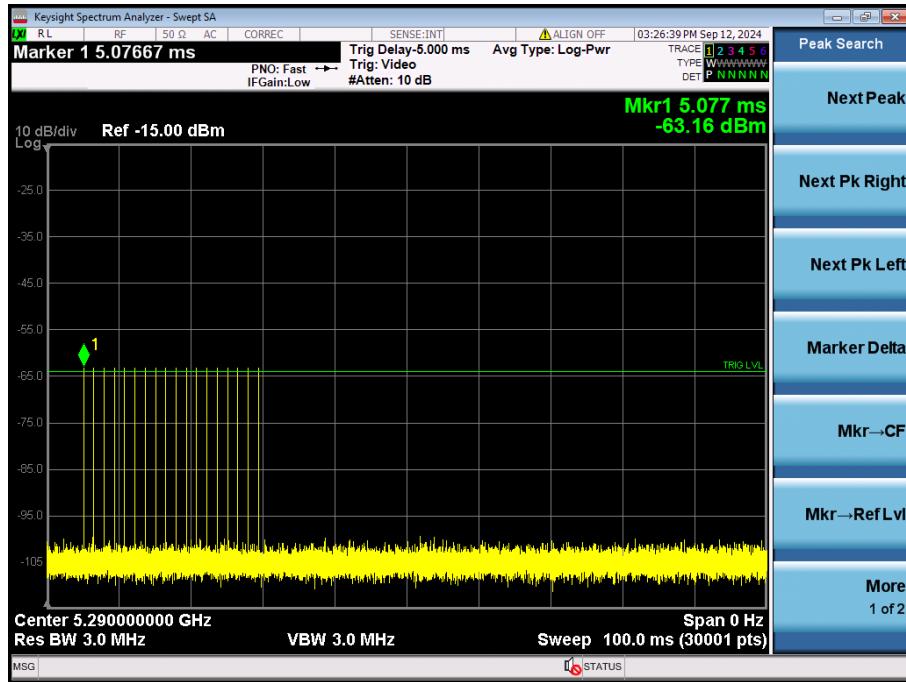
(DFS: Non-occupancy period; Channel Move Time; Channel Closing Transmission Time)

Note: All antennas type has been tested and we found the antenna 1 has the worst result. Only record the worst test result.

### Test plots as follows:

Radar Waveform Calibration Result

Radar Type 0



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**Test Data:**

| BW/Channel        | Test Item                         | Test data           | Limit   | Results |
|-------------------|-----------------------------------|---------------------|---------|---------|
| 80MHz/<br>5290MHz | Non-occupancy period              | Refer to test plots | >30 min | pass    |
|                   | Channel Move Time                 | 0.3689s             | <10 s   | Pass    |
|                   | Channel Closing Transmission Time | 0.0015s             | <60ms   | Pass    |

| BW/Channel        | Test Item                         | Test data           | Limit   | Results |
|-------------------|-----------------------------------|---------------------|---------|---------|
| 80MHz/<br>5530MHz | Non-occupancy period              | Refer to test plots | >30 min | pass    |
|                   | Channel Move Time                 | 0s                  | <10 s   | Pass    |
|                   | Channel Closing Transmission Time | 0s                  | <60ms   | Pass    |

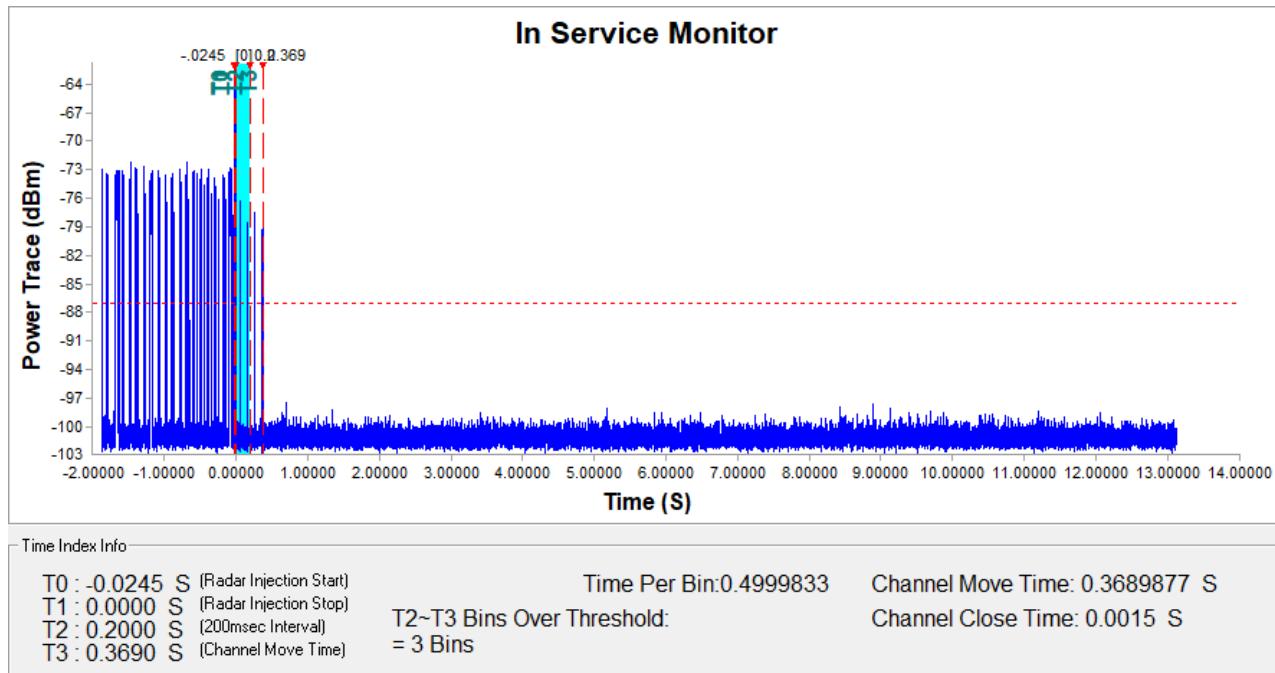
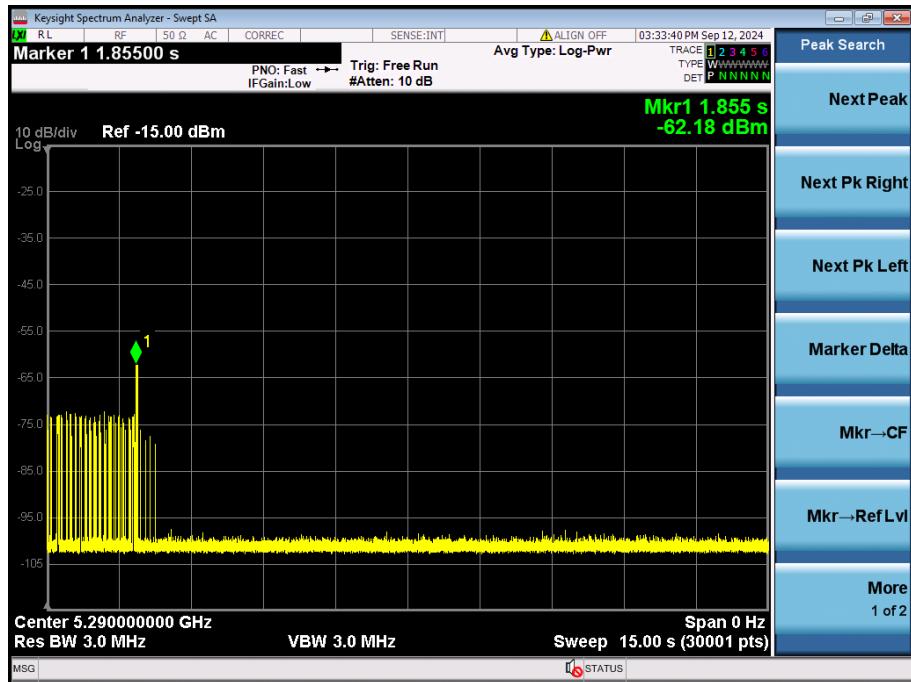
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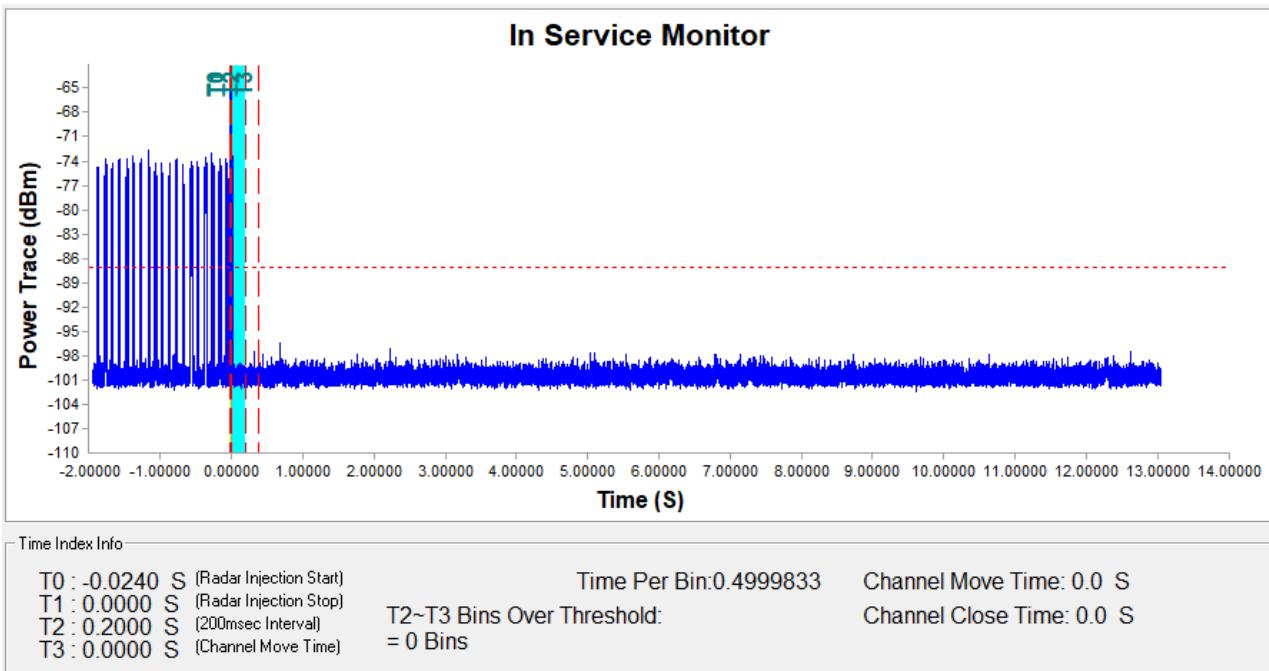
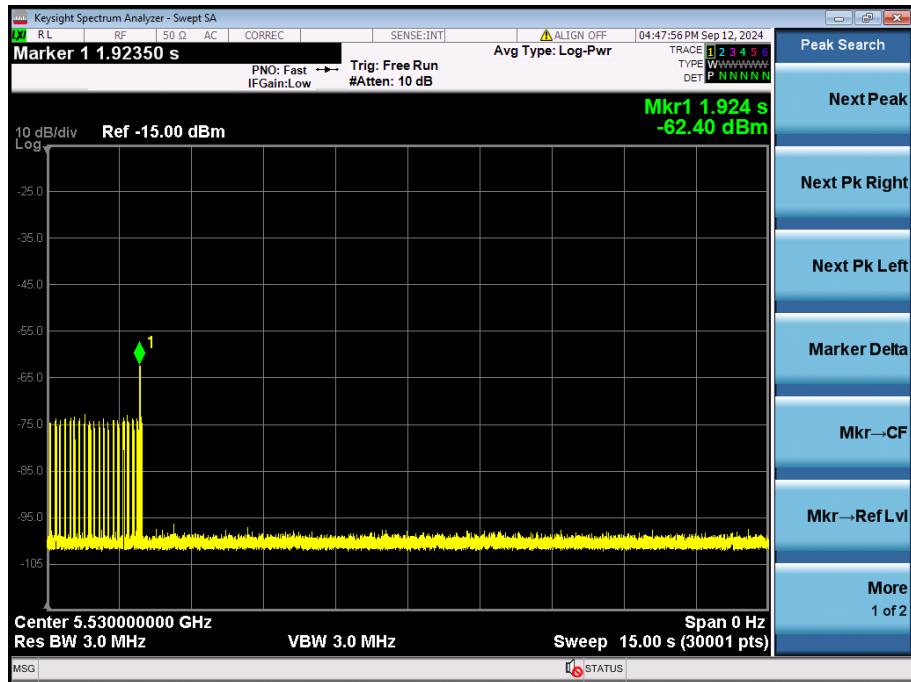
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**Test plots as follows(5290MHz):**


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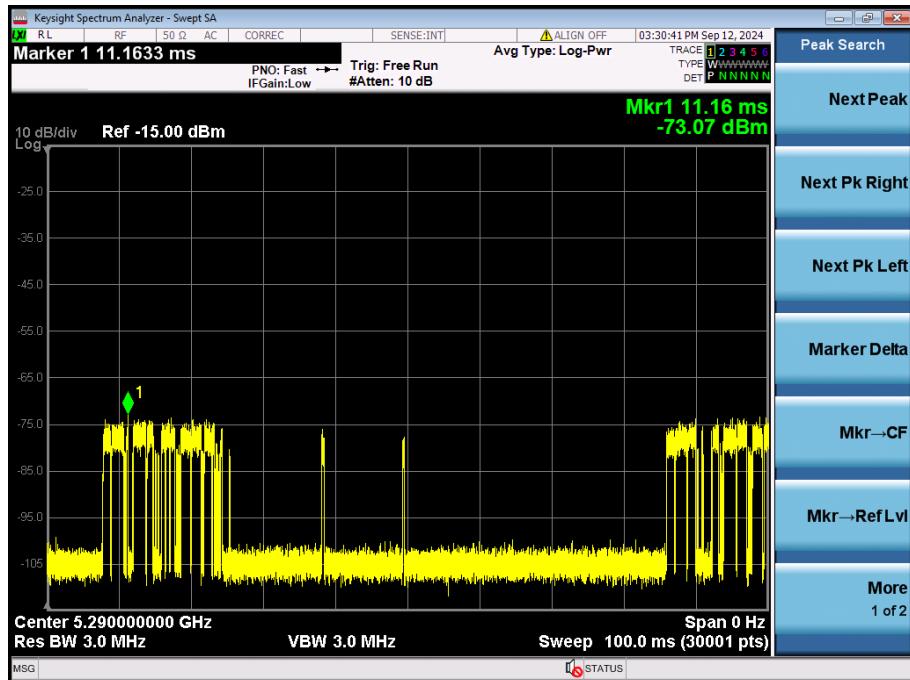
**Test plots as follows(5530MHz):**


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