

# Test Report

**Applicant** : Shinwa industries(China) ltd  
**Address** : No.26, HuiFeng West 2 Road, Zhongkai High-Tech Park,  
Huizhou, Guangdong, China  
**Product Name** : Car Kit WiFi Module  
**Brand Mark** : Shinwa  
**Model** : WF-MA80-2  
**Series model** : N/A  
**FCC ID** : ZWYMA802  
**Report Number** : BLA-EMC-202510-A4305  
**Date of Receipt** : Oct. 23, 2025  
**Date of Test** : Oct. 23, 2025 to Nov. 14, 2025  
**Test Standard** : 47 CFR Part 15, Subpart E 15.407  
**Test Result** : Pass

Compiled by: Mark Chen

Review by:

Xavier

Approved by:

Blue Zheng

Issued Date: Nov. 26, 2025

**BlueAsia of Technical Services(Shenzhen) Co.,Ltd.**

Address: Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District,  
Shenzhen, Guangdong Province, China



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## Revise Record

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 01          | Nov. 26, 2025 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |

## 1 General information

### 1.1 General information

|              |                                                                                |
|--------------|--------------------------------------------------------------------------------|
| Applicant    | Shinwa industries(China) ltd                                                   |
| Address      | No.26, HuiFeng West 2 Road, Zhongkai High-Tech Park, Huizhou, Guangdong, China |
| Manufacturer | Shinwa industries(China) ltd                                                   |
| Address      | No.26, HuiFeng West 2 Road, Zhongkai High-Tech Park, Huizhou, Guangdong, China |
| Factory      | Shinwa industries(China) ltd                                                   |
| Address      | No.26, HuiFeng West 2 Road, Zhongkai High-Tech Park, Huizhou, Guangdong, China |

### 1.2 General description of EUT

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name        | Car Kit WiFi Module                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Model No.           | WF-MA80-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Operation Frequency | U-NII-1: 5150MHz-5250MHz    U-NII-2A: 5250MHz-5350MHz<br>U-NII-2C: 5470MHz-5725MHz    U-NII-3: 5745MHz-5850MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Channel numbers     | U-NII-1: 802.11a/802.11n(HT20)/802.11ac(HT20)/802.11ax(HE20): 4,<br>802.11n(HT40)/802.11ac(HT40)/802.11ax(HE40):2,<br>802.11ac(HT80)/ax(HE80): 1<br>U-NII-2A: 802.11a/802.11n(HT20)/802.11ac(HT20)/802.11ax(HE20): 4,<br>802.11n(HT40)/802.11ac(HT40)/802.11ax(HE40):2,<br>802.11ac(HT80)/ax(HE80): 1<br>V-NII-2C: 802.11a/802.11n(HT20)/802.11ac(HT20)/802.11ax(HE20): 8,<br>802.11n(HT40)/802.11ac(HT40)/802.11ax(HE40):3,<br>802.11ac(HT80)/ax(HE80): 1<br>U-NII-3: 802.11a/802.11(HT20)/802.11ac(HT20)/802.11ax(HE20): 5,<br>802.11n(HT40)/802.11ac(HT40)/802.11ax(HE40): 2,<br>802.11ac(HT80)/ax(HE80): 1 |
| Modulation Type     | IEEE 802.11a:OFDM (BPSK, QPSK, 16QAM, 64QAM)<br>IEEE 802.11n(HT20/HT40):OFDM (BPSK, QPSK, 16QAM, 64QAM)<br>IEEE for 802.11ac :OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK)                                                                                                                                                                                                                                                                                                                                                                                                                                           |

|                                                                                                                                             |                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                             | IEEE for 802.11ax(HE20/HE40/HE80):OFDMA(1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)                                                                                                                                                           |
| Transmit Data Rate                                                                                                                          | IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps<br>IEEE 802.11n HT20: up to 216.7 Mbps, HT40: up to 450 Mbps<br>IEEE 802.11ac VHT20: up to 346.7 Mbps, VHT40: up to 800 Mbps, VHT80: up to 1733.3 Mbps<br>802.11ax(HE20/HE40/HE80): MCS 0-11 |
| Device type                                                                                                                                 | Slaver device                                                                                                                                                                                                                                |
| Antenna Type                                                                                                                                | External antenna                                                                                                                                                                                                                             |
| Antenna Gain                                                                                                                                | 3.6dBi                                                                                                                                                                                                                                       |
| Power supply                                                                                                                                | DC 3.3V                                                                                                                                                                                                                                      |
| Hardware Version                                                                                                                            | N/A                                                                                                                                                                                                                                          |
| Software Version                                                                                                                            | N/A                                                                                                                                                                                                                                          |
| <i>Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.</i> |                                                                                                                                                                                                                                              |

## 2 Test summary

| Test Items                                                           | Limit                                                                                                    | Result |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------|
| Channel Availability Check                                           | > 60 seconds                                                                                             | N/A    |
| UNII Detection Bandwidth                                             | > 100% of the UNII 99% transmission power bandwidth                                                      | N/A    |
| Statistical Performance Check                                        | Radar type 1,2,3,4 $\geq 60\%$<br>Aggregate Radar type 1~4 and 5 $\geq 80\%$<br>Radar type 6 $\geq 70\%$ | N/A    |
| Channel Move Time                                                    | < 10 seconds                                                                                             | Pass   |
| Channel Closing Transmission Time                                    | < 20ms + aggregate of 60ms over remaining 10 second period                                               | Pass   |
| Non-Occupancy Period                                                 | > 30 minutes                                                                                             | Pass   |
| Note: "Pass" means meet the requirements, "N/A" means not applicable |                                                                                                          |        |

### 3 Test Configuration

#### 3.1 Test mode

| Test Mode      | Description                                          |
|----------------|------------------------------------------------------|
| Normal working | Keep the EUT in continuously working in normal mode. |

#### 3.2 EUT Configuration for DFS Test channel

| Test Items                        | Channel Frequency                    |
|-----------------------------------|--------------------------------------|
| Channel Move Time                 | 5260MHz, 5290MHz<br>5500MHz, 5530MHz |
| Channel Closing Transmission Time | 5260MHz, 5290MHz<br>5500MHz, 5530MHz |
| Non-Occupancy Period              | 5260MHz, 5290MHz<br>5500MHz, 5530MHz |

#### 3.3 Auxiliary equipment

| Device Type                                                       | Manufacturer | Model Name   | Serial No.   | Remark |
|-------------------------------------------------------------------|--------------|--------------|--------------|--------|
| PC                                                                | HP           | 14s-cr2010TX | --           | --     |
| ASUS                                                              | WiFi Router  | GT-AXE11000  | M3IAJF201052 | ASUS   |
| <b>Note:</b><br>"--" mean no any auxiliary device during testing. |              |              |              |        |

#### 3.4 Test environment

|                      |            |
|----------------------|------------|
| Temperature          | 20 ~ 25 °C |
| Humidity             | 60% ~ 65%  |
| Atmospheric pressure | 1012 kPa   |

## 4 Laboratory information

### 4.1 Laboratory and accreditations

The test facility is recognized, certified, or accredited by the following organizations:

|                          |                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------------------------------|
| Company name:            | BlueAsia of Technical Services(Shenzhen) Co., Ltd.                                                          |
| Address:                 | Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China |
| CNAS accredited No.:     | L9788                                                                                                       |
| A2LA Cert. No.:          | 5071.01                                                                                                     |
| FCC Designation No.:     | CN1252                                                                                                      |
| ISED CAB identifier No.: | CN0028                                                                                                      |
| Telephone:               | +86-755-28682673                                                                                            |
| FAX:                     | +86-755-28682673                                                                                            |

### 4.2 Measurement uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=1.96$ .

| Parameter                  | Expanded Uncertainty |
|----------------------------|----------------------|
| RF output power, conducted | $\pm 1.5$ dB         |
| Temperature                | $\pm 3$ °C           |
| Supply voltages            | $\pm 3$ %            |
| Time                       | $\pm 5$ %            |

## 5 Test equipment

### RF conducted

| Equipment       | Name                       | Model    | Manufacture     | S/N           | Cal. Date  | Due. Date  |
|-----------------|----------------------------|----------|-----------------|---------------|------------|------------|
| BLA-EMC-003-003 | Shield room                | 5*3*3    | SKET            | N/A           | 2023/11/16 | 2025/11/15 |
| BLA-EMC-016     | Signal Generator           | N5182A   | Agilent         | MY52420567    | 2025/06/09 | 2026/06/08 |
| BLA-EMC-038     | Spectrum                   | N9020A   | Agilent         | MY49100060    | 2025/08/05 | 2026/08/04 |
| BLA-EMC-042     | Power sensor               | RPR3006W | DARE            | 14I00889SN042 | 2025/08/05 | 2026/08/04 |
| BLA-EMC-044     | Radio communication tester | CMW500   | R&S             | 132429        | 2025/08/05 | 2026/08/04 |
| BLA-EMC-064     | Signal Generator           | N5182B   | KEYSIGHT        | MY58108892    | 2025/06/09 | 2026/06/08 |
| BLA-EMC-079     | Spectrum                   | N9020A   | Agilent         | MY54420161    | 2025/08/05 | 2026/08/04 |
| BLA-EMC-088     | Audio Analyzer             | ATS-1    | Audio Precision | ATS141094     | 2025/06/09 | 2026/06/08 |

## 6 DFS Technical Requirements

### 6.1 DFS Parameters

**Table D.1: Applicability of DFS Requirements Prior to Use of a Channel**

| Requirement                     | Operational Mode |                                |                             |
|---------------------------------|------------------|--------------------------------|-----------------------------|
|                                 | Master           | Client Without Radar Detection | Client With Radar Detection |
| Non-Occupancy period            | Yes              | Not required                   | Yes                         |
| DFS Detection Threshold         | Yes              | Not required                   | Yes                         |
| Channel Availability Check Time | Yes              | Not required                   | Not required                |
| U-NII Detection Bandwidth       | Yes              | Not required                   | Yes                         |

**Table D.2: Applicability of DFS requirements during normal operation**

| Requirement                       | Operational Mode |                                |
|-----------------------------------|------------------|--------------------------------|
|                                   | Master           | Client Without Radar Detection |
| DFS Detection Threshold           | Yes              | Not required                   |
| Channel Closing Transmission Time | Yes              | Yes                            |
| Channel Move Time                 | Yes              | Yes                            |
| U-NII Detection Bandwidth         | Yes              | Not required                   |

| Additional requirements for devices with multiple bandwidth modes                                                                                                                                                                                                                                                                                     | Operational Mode                             |                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                       | Master Device or Client with Radar Detection | Client Without Radar Detection                       |
| U-NII Detection Bandwidth and Statistical Performance Check                                                                                                                                                                                                                                                                                           | All BW modes must be tested                  | Not required                                         |
| Channel Move Time and Channel Closing Transmission Time                                                                                                                                                                                                                                                                                               | Test using widest BW mode available          | Test using the widest BW mode available for the link |
| All other tests                                                                                                                                                                                                                                                                                                                                       | Any single BW mode                           | Not required                                         |
| Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency. |                                              |                                                      |

**Table D.3: DFS Detection Thresholds**

| Maximum Transmit Power                                                | Value (See Notes 1,2, and 3) |
|-----------------------------------------------------------------------|------------------------------|
| EIRP $\geq$ 200 mW                                                    | -64 dBm                      |
| EIRP < 200 mW and power spectral density < 10 dBm/MHz                 | -62 dBm                      |
| EIRP < 200 mW 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 D.4: DFS 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 ms + an aggregate of 60ms 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.

**Table D.5: Short Pulse Radar Test Waveforms**

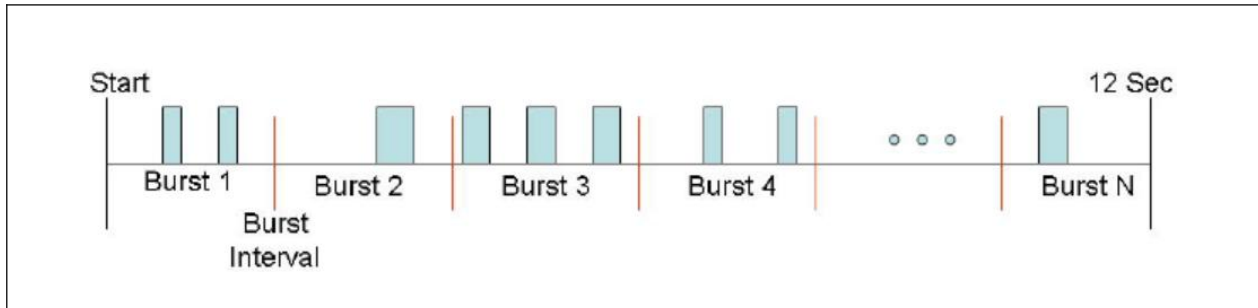
| Radar Type                  | Pulse Width (μsec) | PRI (μsec)       | Number of Pulses                                                                                                                     | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|-----------------------------|--------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------|
| 0                           | 1                  | 1428             | 18                                                                                                                                   | See Note 1                                 | See Note 1               |
| 1                           | 1                  | Test A<br>Test B | $\text{Roundup} \left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$ | 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.

**Table D.6: 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                       |

**Long Pulse Radar Test Signal Wave form 12 second transmission**


**Table D.7: Frequency Hopping Radar Test Waveform**

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|------------|--------------------|------------|----------------|--------------------|--------------------------------|--------------------------------------------|--------------------------|
| 6          | 1                  | 333        | 0              | 0.333              | 300                            | 70%                                        | 30                       |

## 6.2 DFS Technical Requirements

| Requirement                       | DFS Operational mode            |                                                                   |                                                     |
|-----------------------------------|---------------------------------|-------------------------------------------------------------------|-----------------------------------------------------|
|                                   | <input type="checkbox"/> Master | <input checked="" type="checkbox"/> Slave without Radar Detection | <input type="checkbox"/> Slave with Radar Detection |
| Channel Availability Check        | √                               | Not Required                                                      | Not Required                                        |
| UNII DetectionBandwidth           | √                               | Not Required                                                      | √                                                   |
| Statistical Performance Check     | √                               | Not Required                                                      | √                                                   |
| Channel Move Time                 | √                               | √                                                                 | √                                                   |
| Channel Closing Transmission Time | √                               | √                                                                 | √                                                   |
| Non-Occupancy Period              | √                               | √                                                                 | √                                                   |

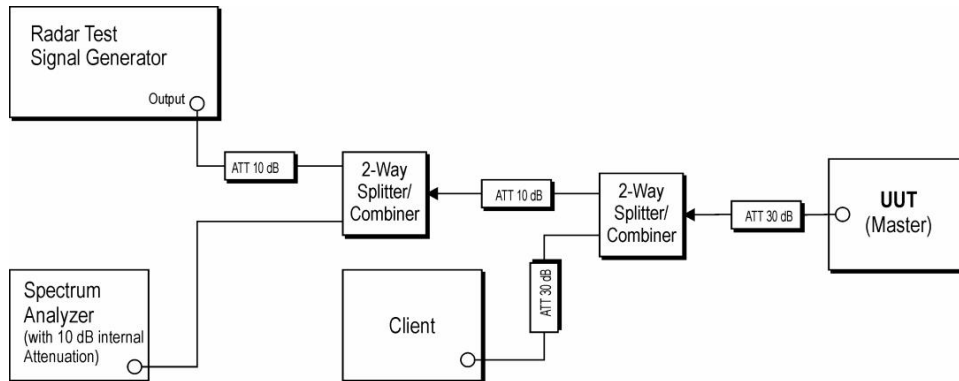
## 6.3 DFS Threshold Level

| DFS Threshold Level |                            |
|---------------------|----------------------------|
| 5250MHz ~ 5350MHz   | -62dBm @ antenna connector |
| 5470MHz~5725MHz     | -62dBm @ antenna connector |

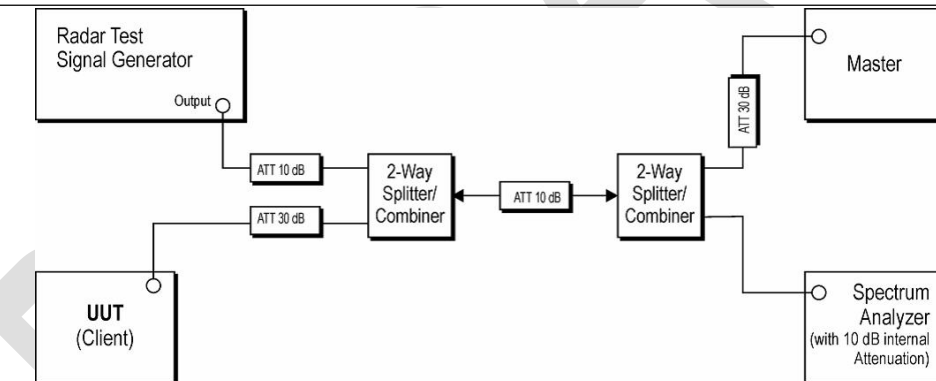
Note: The worst case level was selected to perform the test.

## 6.4 Test Setup Block

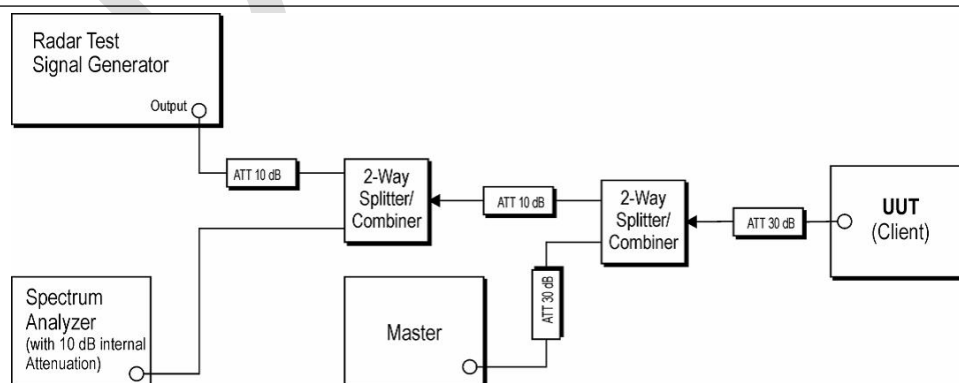
### ☐ For master device



### ☒ For Slaver without radar detection function device



### ☐ For Slaver with radar detection function device



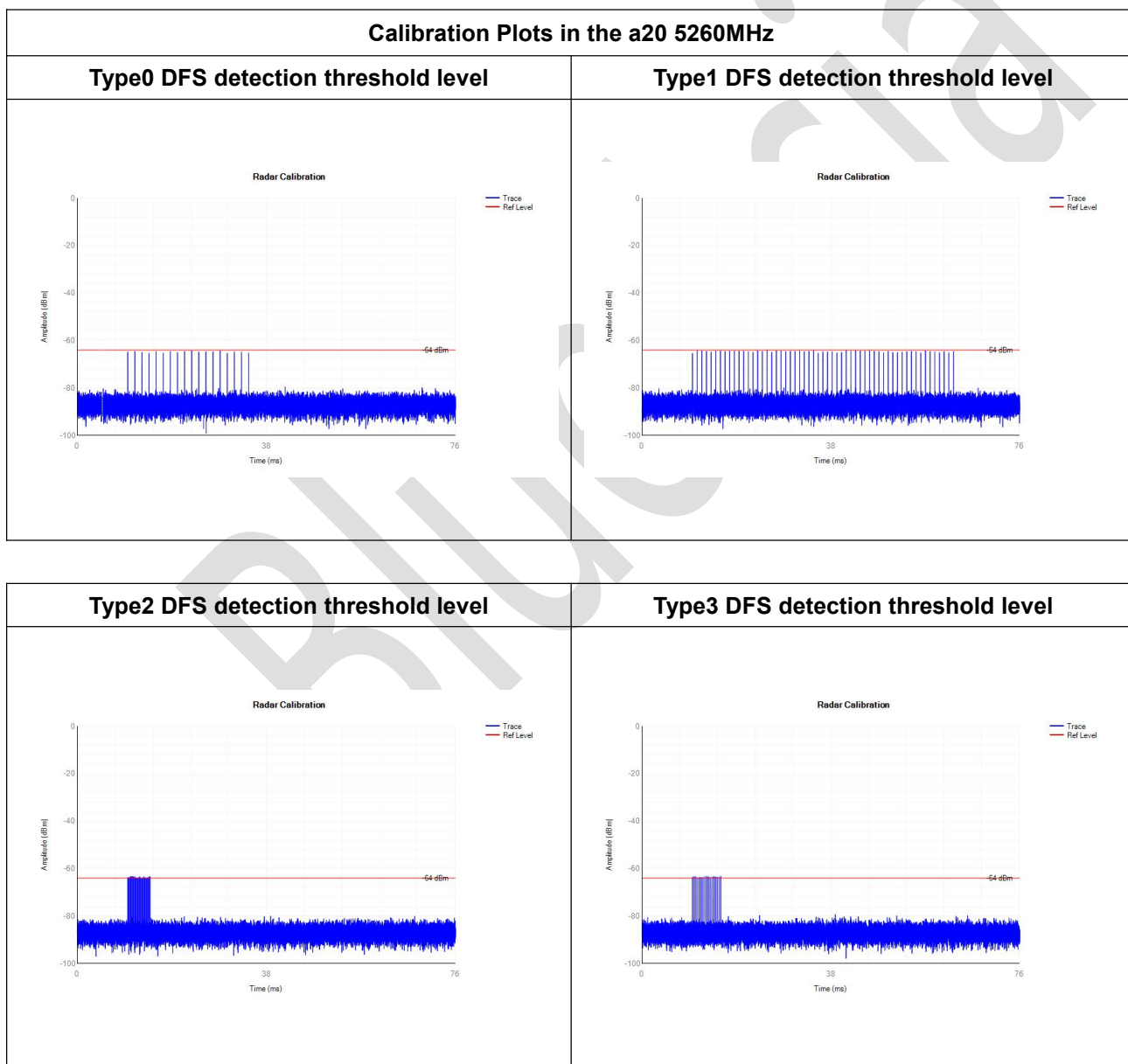
## 7 Test Result

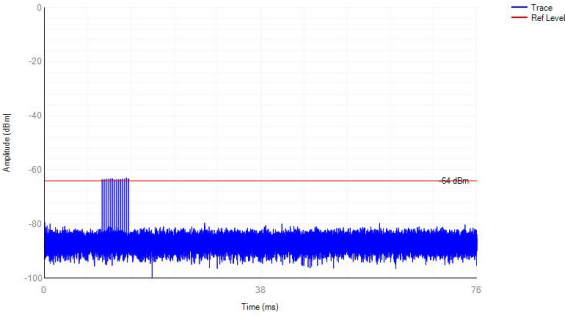
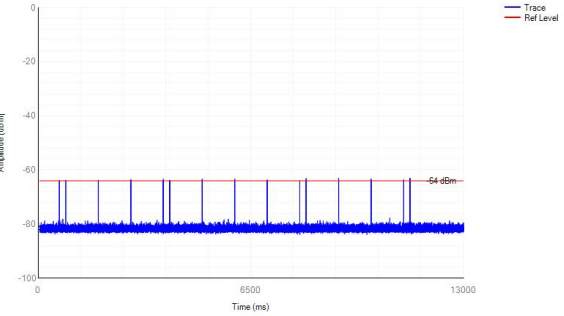
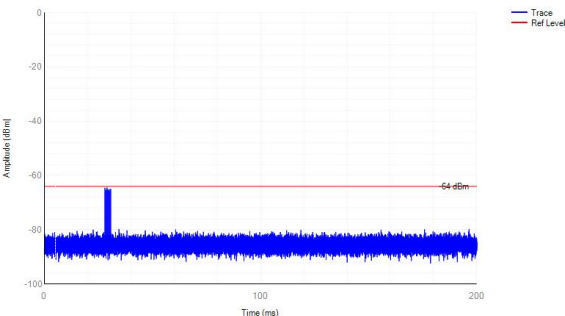
### 7.1 DFS Detection Threshold

#### Methods of Measurement

Client with injection at the Master.

For a detection threshold level of -64dBm, the required signal strength at EUT antenna location is -64dBm, the tested level is lower than required level hence it provides margin to the limit.

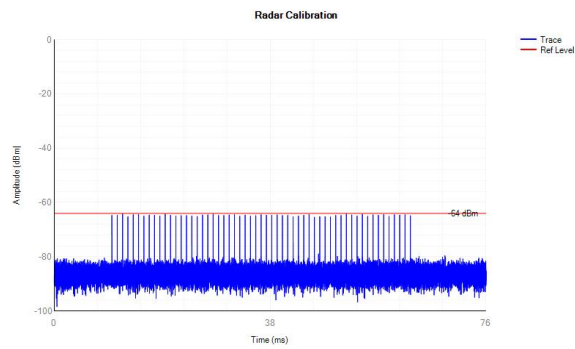
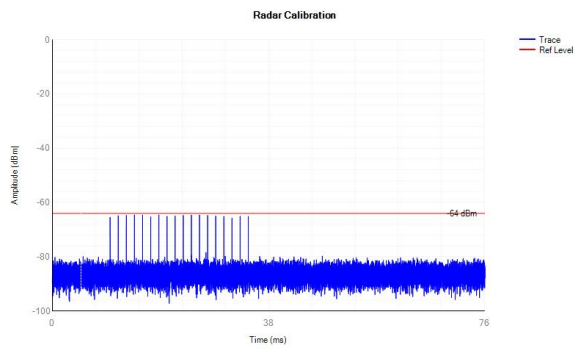


| Type4 DFS detection threshold level                                                                          | Type5 DFS detection threshold level                                                                         |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <p>Radar Calibration</p>    | <p>Radar Calibration</p>  |
| Type6 DFS detection threshold level                                                                          | --                                                                                                          |
| <p>Radar Calibration</p>  | --                                                                                                          |

Calibration Plots in the a20 5500MHz

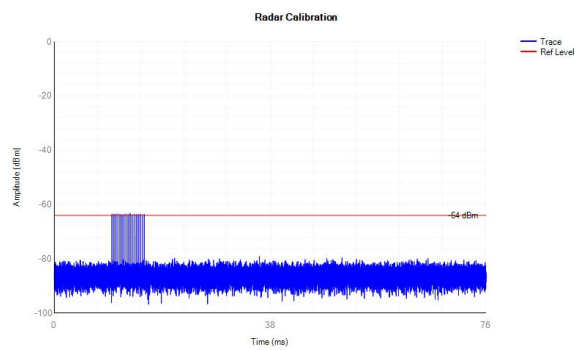
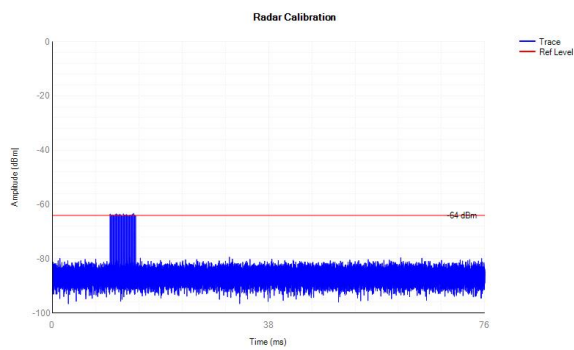
Type0 DFS detection threshold level

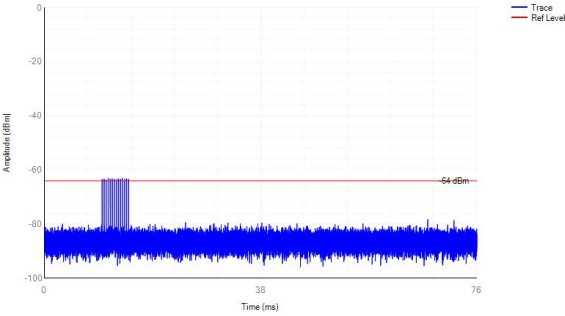
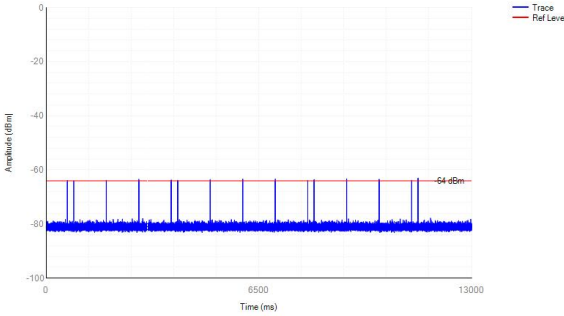
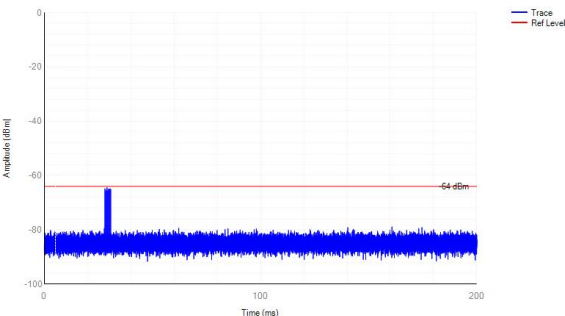
Type1 DFS detection threshold level



Type2 DFS detection threshold level

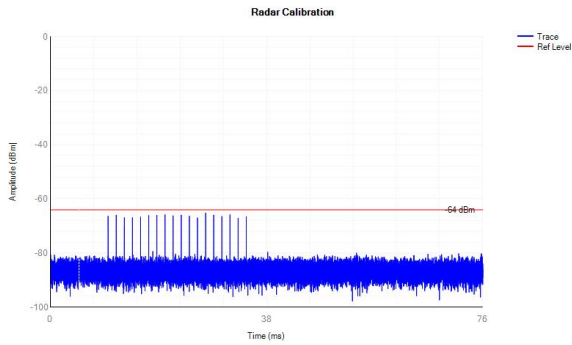
Type3 DFS detection threshold level



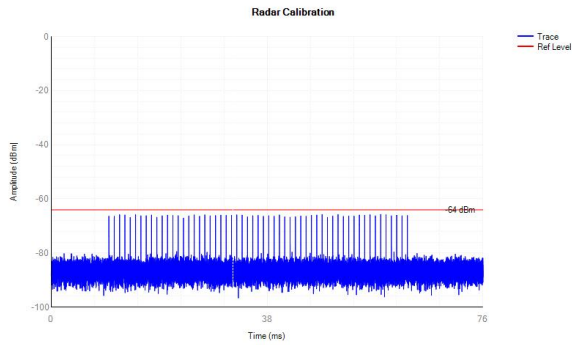
| Type4 DFS detection threshold level                                                                          | Type5 DFS detection threshold level                                                                         |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <p>Radar Calibration</p>    | <p>Radar Calibration</p>  |
| Type6 DFS detection threshold level                                                                          | --                                                                                                          |
| <p>Radar Calibration</p>  | --                                                                                                          |

Calibration Plots in the ax80 5290MHz

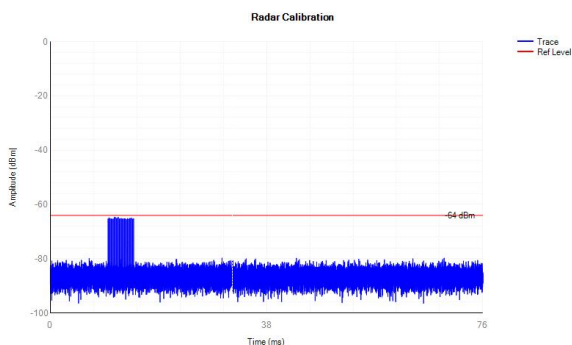
Type0 DFS detection threshold level



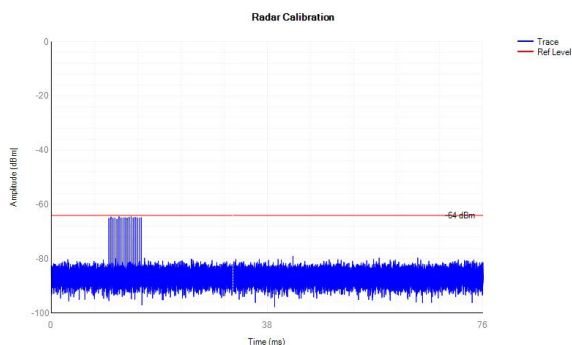
Type1 DFS detection threshold level

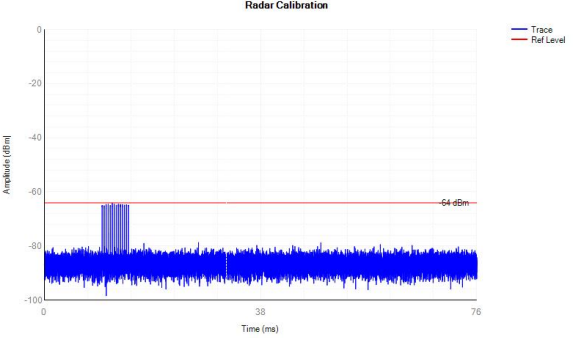
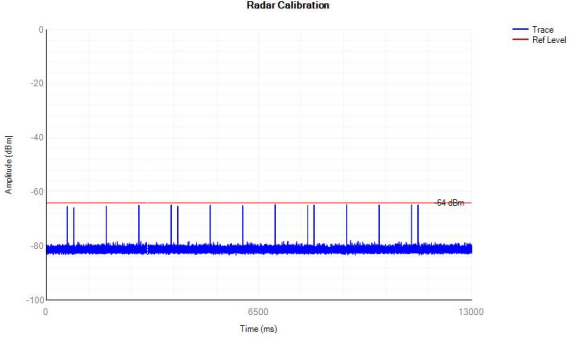
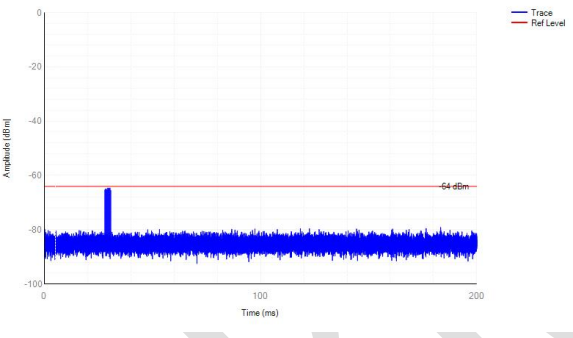


Type2 DFS detection threshold level



Type3 DFS detection threshold level

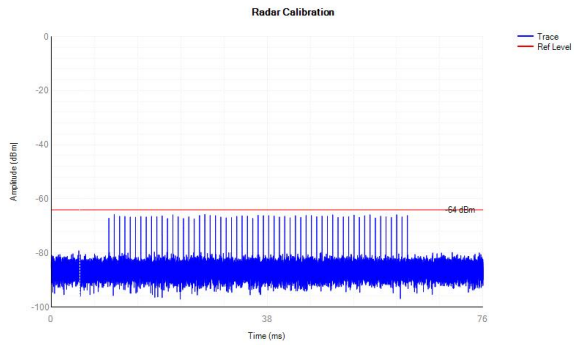
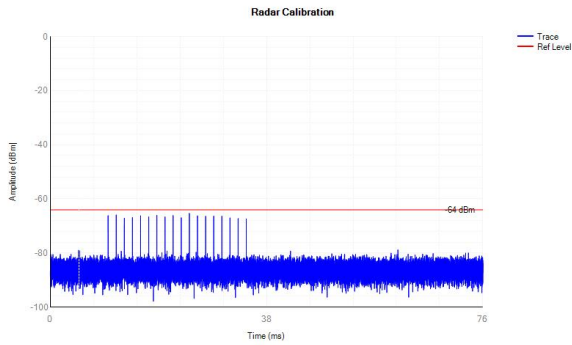


| Type4 DFS detection threshold level                                                                          | Type5 DFS detection threshold level                                                                         |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <p>Radar Calibration</p>    | <p>Radar Calibration</p>  |
| Type6 DFS detection threshold level                                                                          | --                                                                                                          |
| <p>Radar Calibration</p>  | --                                                                                                          |

Calibration Plots in the ax80 5530MHz

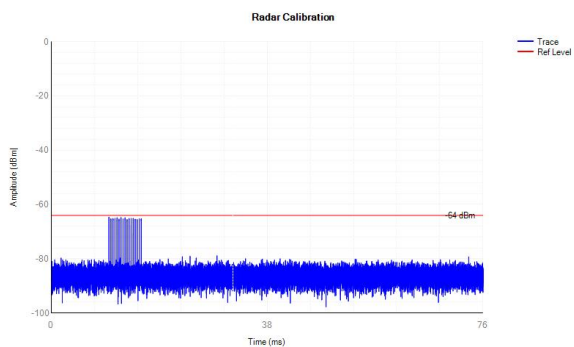
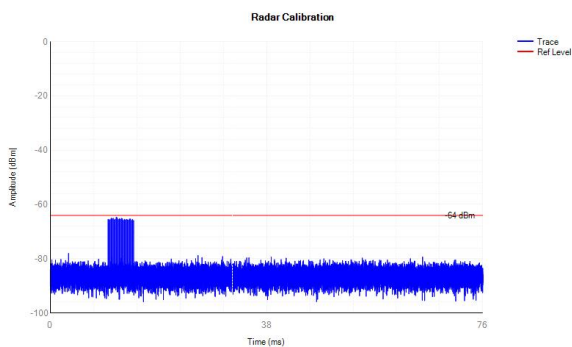
Type0 DFS detection threshold level

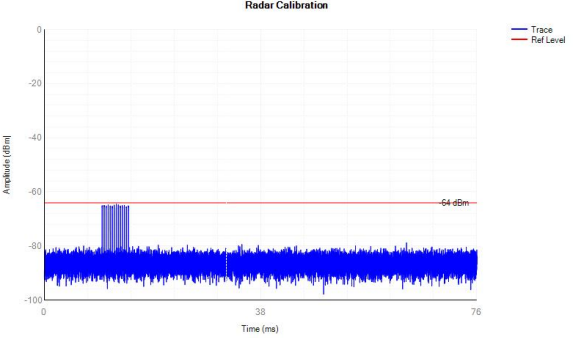
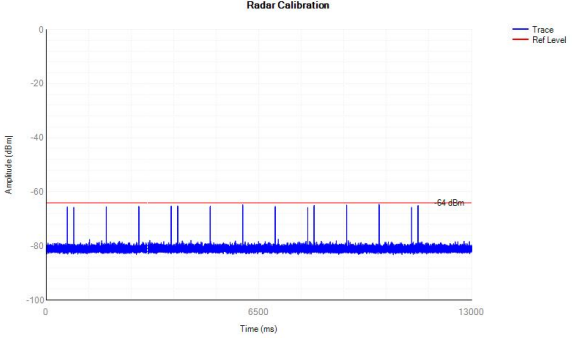
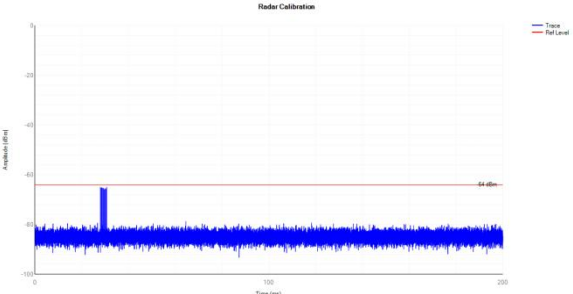
Type1 DFS detection threshold level



Type2 DFS detection threshold level

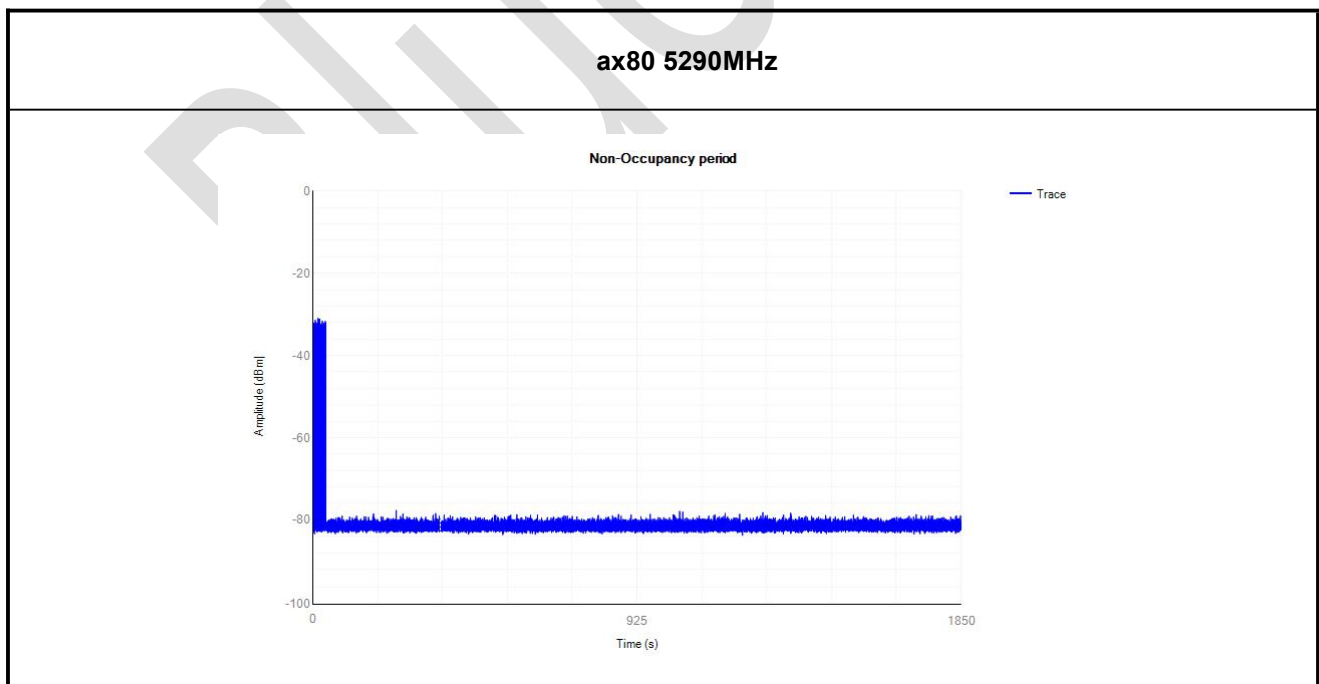
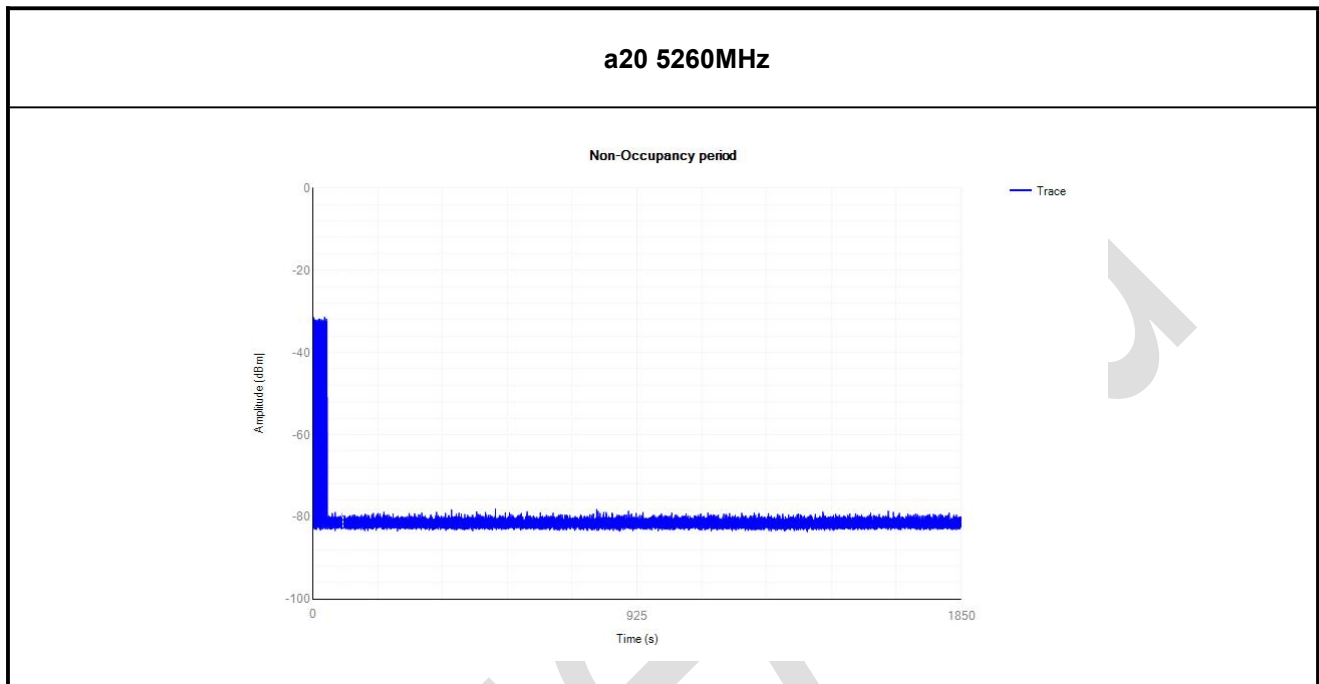
Type3 DFS detection threshold level



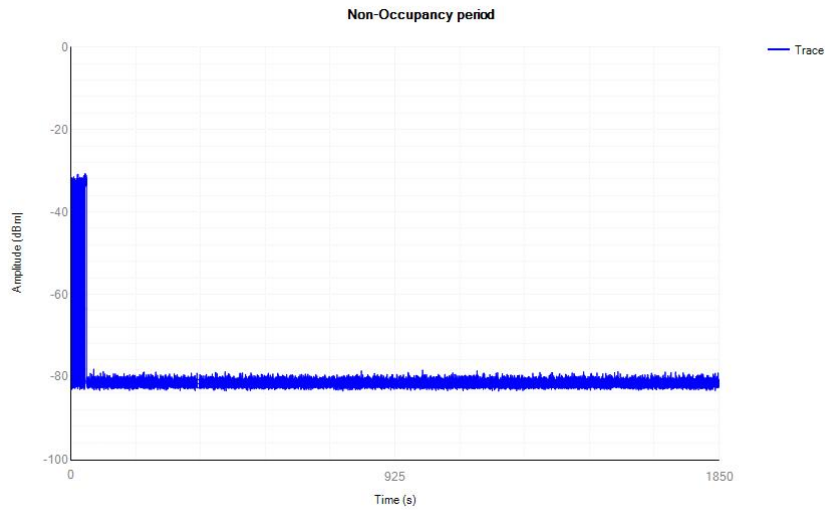
| Type4 DFS detection threshold level                                                                          | Type5 DFS detection threshold level                                                                         |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <p>Radar Calibration</p>    | <p>Radar Calibration</p>  |
| Type6 DFS detection threshold level                                                                          |                                                                                                             |
| <p>Radar Calibration</p>  |                                                                                                             |

## 7.2 Non-Occupancy Period

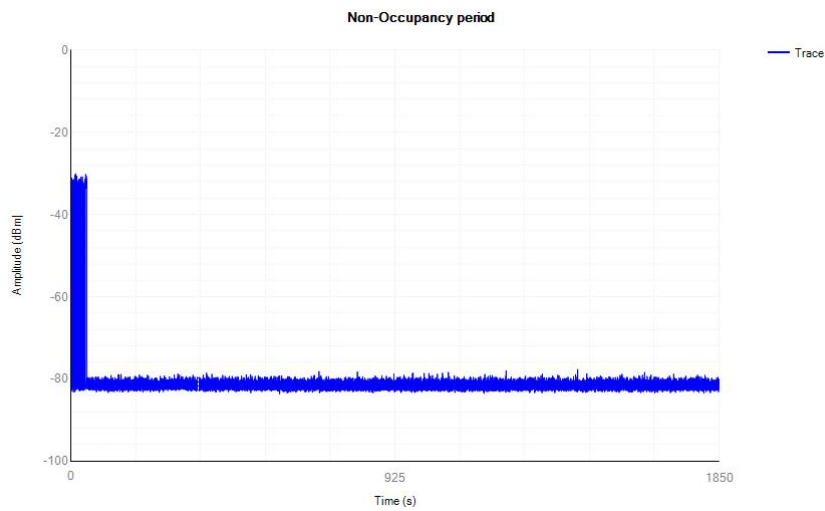
| Test Items           | Value        | Limit              | Result |
|----------------------|--------------|--------------------|--------|
| Non-Occupancy Period | > 30 minutes | Minimum 30 minutes | Pass   |



**a20 5500MHz**

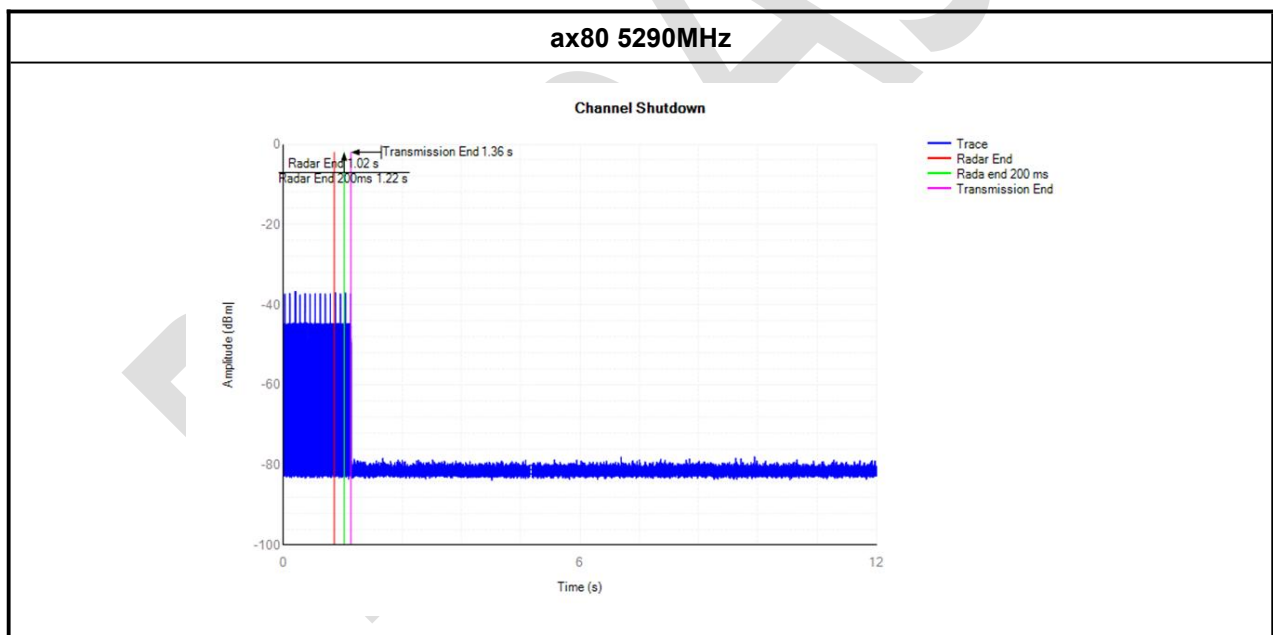
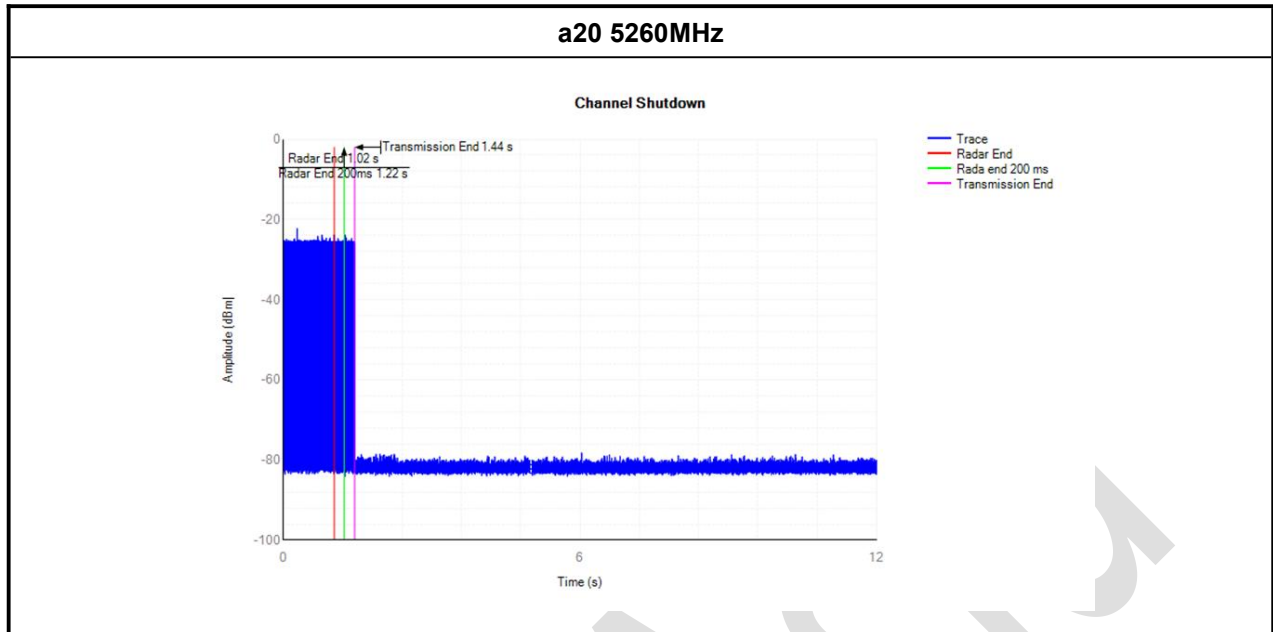


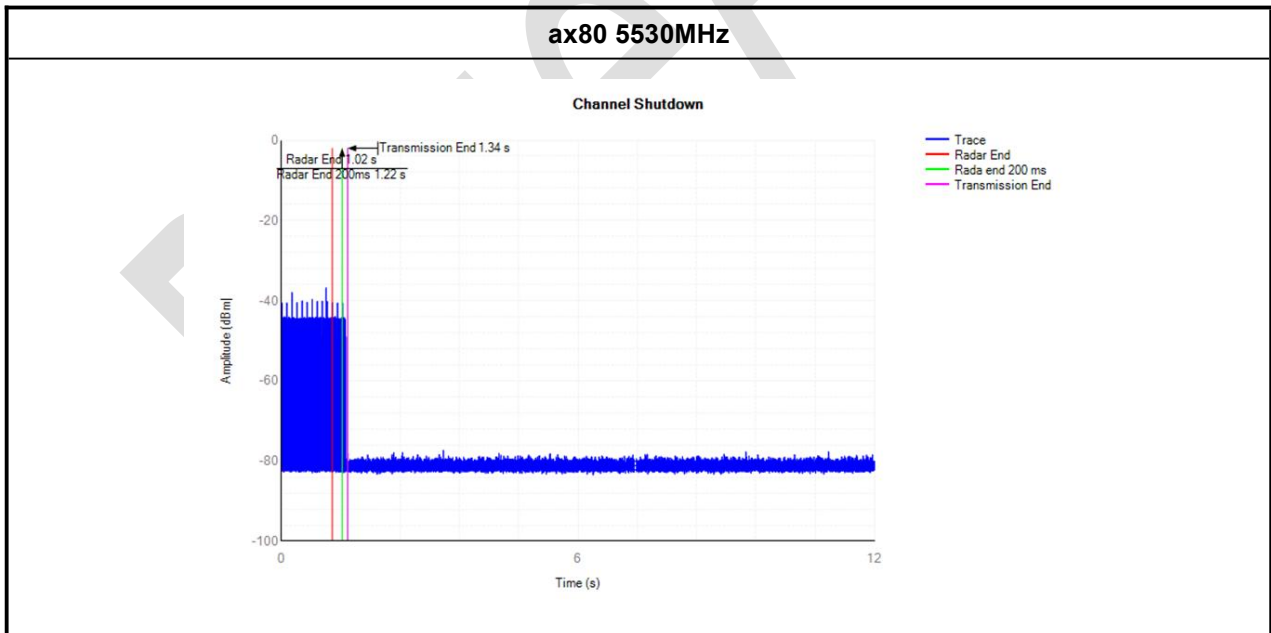
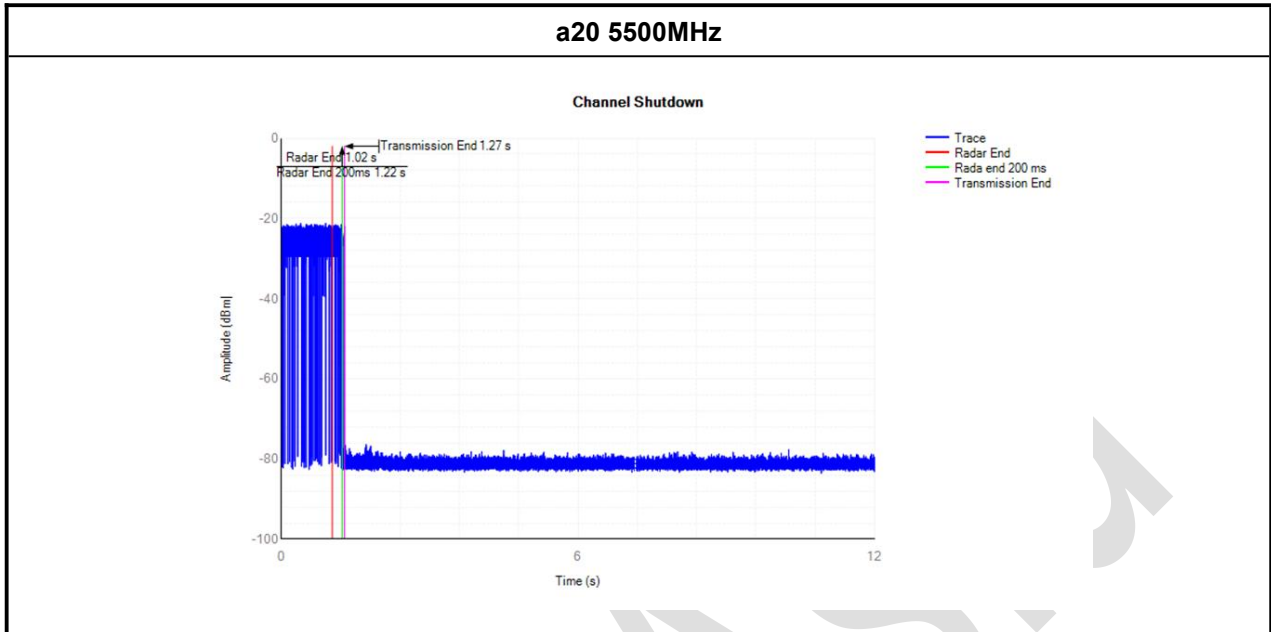
**ax80 5530MHz**



### 7.3 Channel Move Time and Channel Closing Transmission Time

| Mode | Frequency<br>(MHz) | Channel<br>Move<br>Time (s) | Limit<br>Channel<br>Move<br>Time (s) | Close<br>Transmission<br>Time (s) | Limit Close<br>Transmission<br>Time (s) | Close<br>Transmission<br>Time after<br>200ms (s) | Limit Close<br>Transmission<br>Time after<br>200ms (s) | Verdict |
|------|--------------------|-----------------------------|--------------------------------------|-----------------------------------|-----------------------------------------|--------------------------------------------------|--------------------------------------------------------|---------|
| a20  | 5260               | 0.4133                      | 10                                   | 0.0956                            | 0.26                                    | 0.0508                                           | 0.06                                                   | Pass    |
| ax80 | 5290               | 0.3381                      | 10                                   | 0.0756                            | 0.26                                    | 0.0356                                           | 0.06                                                   | Pass    |
| a20  | 5500               | 0.2485                      | 10                                   | 0.188                             | 0.26                                    | 0.0028                                           | 0.06                                                   | Pass    |
| ac80 | 5530               | 0.3117                      | 10                                   | 0.0396                            | 0.26                                    | 0.012                                            | 0.06                                                   | Pass    |





## 8 Test photos



## 9 Appendix B: photographs of EUT

Reference to the test report no. BLA-EMC-202510-A4301

BlueAsia

----END OF REPORT----

The test report is effective only with both signature and specialized stamp, the result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full.

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