

**EUROFINS ELECTRICAL TESTING SERVICE (SHENZHEN) CO., LTD.**

# **DFS TEST - REPORT**

**FCC Compliance Test Report for**

**Product name: Smart Feeder (Granary 2 Vision),  
Smart Feeder (Granary 2 Vision Duo), Smart Feeder (Granary 2 X)**

**Model name: PLAF205, 6216205, PLAF305, 6216305**

**FCC ID: 2A3DE-PLAFX05**

**Test Report Number: EFGX26020274-IE-01-E15**

|          |                            |           |
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# 1 General Information

## 1.1 Notes

The results of this test report relate exclusively to the item tested as specified in chapter “Description of test item” and are not transferable to any other test items.

Eurofins Electrical Testing Service (Shenzhen) Co., Ltd. is not responsible for any generalisations and conclusions drawn from this report. Any modification of the test item can lead to invalidity of test results and this test report may therefore be not applicable to the modified test item.

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### Operator:

2026-04-30 Bruce Zheng / Project Engineer

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| Date | Eurofins-Lab. | Name / Title | Signature |
|------|---------------|--------------|-----------|
|------|---------------|--------------|-----------|

### Technical responsibility for area of testing:

2026-04-30 Albert Xu / Lab Manager

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| Date | Eurofins | Name / Title | Signature |
|------|----------|--------------|-----------|
|------|----------|--------------|-----------|

## 1.2 Testing laboratory

Eurofins Electrical Testing Service (Shenzhen) Co., Ltd.

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The Laboratory has passed the Accreditation by the American Association for Laboratory Accreditation (A2LA). The Accreditation number is 5376.01

The Laboratory has been listed by industry Canada to perform electromagnetic emission measurements, The CAB identifier is CN0088

## 1.3 Details of applicant

|           |   |                                                                                                                                            |
|-----------|---|--------------------------------------------------------------------------------------------------------------------------------------------|
| Name      | : | Shenzhen Libro Technology Co., Ltd.                                                                                                        |
| Address   | : | Room 501, West Tower, Twin Towers, Galaxy World, No. 8 Yaxing Road, Nankeng Community, Bantian Street, Long-gang District, Shenzhen, China |
| Telephone | : | ./.                                                                                                                                        |
| Fax       | : | ./.                                                                                                                                        |

## 1.4 Details of manufacturer

|           |   |                                                                                                                                            |
|-----------|---|--------------------------------------------------------------------------------------------------------------------------------------------|
| Name      | : | Shenzhen Libro Technology Co., Ltd.                                                                                                        |
| Address   | : | Room 501, West Tower, Twin Towers, Galaxy World, No. 8 Yaxing Road, Nankeng Community, Bantian Street, Long-gang District, Shenzhen, China |
| Telephone | : | ./.                                                                                                                                        |
| Fax       | : | ./.                                                                                                                                        |

## 1.5 Application details

Date of receipt of application : 2026-02-12  
Date of receipt of test item : 2026-02-12  
Date of test : 2026-02-12 to 2026-04-27  
Date of issue : 2026-04-30

## 1.6 Test item

|               |                                                                                                        |
|---------------|--------------------------------------------------------------------------------------------------------|
| Product type  | : Smart Feeder (Granary 2 Vision)<br>Smart Feeder (Granary 2 Vision Duo)<br>Smart Feeder (Granary 2 X) |
| Model name    | : PLAF205, 6216205<br>PLAF305, 6216305                                                                 |
| Brand         | : PETLIBRO                                                                                             |
| Sample ID     | : 260316-09-001                                                                                        |
| Serial number | : ./.                                                                                                  |
| Ratings       | : AC Adapter (Input: 100-240V~ 50/60Hz, 0.2A; Output: DC 5.0V 2.0A; The battery: DC 3.6V               |

## RadioTechnical data

|              |   |                                         |
|--------------|---|-----------------------------------------|
| Radio Tech.  | : | WLAN (IEEE 802.11 a,n)                  |
| Radio Tech.  | : | WLAN 5G                                 |
| Modulation   | : | OFDM                                    |
| Type         | : | Client without radar detection function |
| Antenna type | : | Internal antenna                        |
| Antenna gain | : | 3.23 dBi for U-NII-1 Band               |
|              |   | 3.23 dBi for U-NII-2A Band              |
|              |   | 3.23 dBi for U-NII-2C Band              |
|              |   | 3.24 dBi for U-NII-3 Band               |

### Additional information

1. The PLAF205 and PLAF305 have the same hardware and software, only different for product name, model number and food bowls, all RF parameters remain the same.

| Product name                           | Model name |                                                                                     |
|----------------------------------------|------------|-------------------------------------------------------------------------------------|
| Smart Feeder<br>(Granary 2 Vision)     | PLAF205    |    |
| Smart Feeder<br>(Granary 2 Vision Duo) | PLAF205    |   |
| Smart Feeder<br>(Granary 2 X)          | PLAF305    |  |

2. The PLAF205 and 6216205 only difference is model name.  
The PLAF305 and 6216305 only difference is model name.

3. The product have two kind of battery options are available(same battery pack model and rating, only difference is cell manufacturers).
- 4.

General disclaimer:

The above sample(s) and sample information was/were submitted and identified on behalf of the applicant.

Eurofins assures objectivity and impartiality of the test, and fulfills the obligation of confidentiality for applicant's commercial information and technical documents.

## 1.7 Test standards

| Test Standards        |                                                        |
|-----------------------|--------------------------------------------------------|
| FCC Part 15 Subpart E | PART 15 - RADIO FREQUENCY DEVICES<br>Subpart E §15.407 |

### Test Method

FCC Part 15, Subpart E §15.407

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

FCC KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02

All test items have been performed and record as per the above standards.

## 2 Technical test

### 2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.



or

The deviations as specified were ascertained in the course of the tests performed.



### 2.2 Test environment

| Environment Parameter | Temperature | Relative Humidity |
|-----------------------|-------------|-------------------|
| 101.5Kpa              | 24.7        | 59.6%             |

### 2.3 Test equipment utilized

| EQUIPMENT ID | EQUIPMENT NAME          | MODEL NO.       | CAL. DUE DATE |
|--------------|-------------------------|-----------------|---------------|
| 23-2-13-12   | Signal Analyzer         | N9010B-544      | 2027-03-20    |
| 23-2-13-14   | Signal Generator        | N5183B-520      | 2027-03-20    |
| 23-2-13-15   | Vector Signal Generator | N5182B-506      | 2027-03-20    |
| 23-2-10-43   | Switch and Control Unit | ERIT-E-JS0806-2 | 2027-03-20    |

### 2.4 Special Accessories

There are no special accessories used while test was conducted.

### 2.5 Equipment Modifications

There was no modification incorporated into the EUT.

### 2.6 Auxiliary equipment

Equipment Description: Wireless - AX6000 Dual band Gigabit Router  
 Model: RT- AX88U  
 IC:3568A – RTAXHP00  
 FCC ID:MSQ-RTAXHP00

## 2.7 Test results

☒ 1<sup>st</sup> test

☐ test after modification

☐ production test

| Technical Requirements |                 |             |         |           |
|------------------------|-----------------|-------------|---------|-----------|
| FCC Part 15 Subpart E  |                 |             |         |           |
| Test Condition         |                 | Test Result | Verdict | Test Site |
| §15.407(h)             | DFS Measurement | See page 15 | PASS    | Site 1    |

Note : Since the product is client without radar detection function, only Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period Test are required to be performed.

## 3 DFS MEASUREMENT

### 3.1 DFS: Standard Applicable

According to §15.407(h)(2) and FCC KDB 905462 D02, Radar Detection Function of Dynamic Frequency Selection (DFS).

Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems. Operators shall only use equipment with a DFS mechanism that is turned on when operating in these bands. The device must sense for radar signals at 100 percent of its emission bandwidth. The minimum DFS detection threshold for devices with a maximum e.i.r.p. of 200 mW to 1 W is -64 dBm. For devices that operate with less than 200 mW e.i.r.p. and a power spectral density of less than 10 dBm in a 1 MHz band, the minimum detection threshold is -62 dBm. The detection threshold is the received power averaged over 1 microsecond referenced to a 0 dBi antenna. For the initial channel setting, the manufacturers shall be permitted to provide for either random channel selection or manual channel selection.

(i) Operational Modes. The DFS requirement applies to the following operational modes:

(A) The requirement for channel availability check time applies in the master operational mode.

(B) The requirement for channel move time applies in both the master and slave operational modes.

(ii) Channel Availability Check Time. A U-NII device shall check if there is a radar system already operating on the channel before it can initiate a transmission on a channel and when it has to move to a new channel. The U-NII device may start using the channel if no radar signal with a power level greater than the interference threshold values listed in paragraph (h)(2) of this section, is detected within 60 seconds.

(iii) Channel Move Time. After a radar's presence is detected, all transmissions shall cease on the operating channel within 10 seconds. Transmissions during this period shall consist of normal traffic for a maximum of 200 ms after detection of the radar signal. In addition, intermittent management and control signals can be sent during the remaining to facilitate vacating the operating channel.

(iv) Non-occupancy Period. A channel that has been flagged as containing a radar system, either by a channel availability check or in-service monitoring, is subject to a non-occupancy period of at least 30 minutes. The non-occupancy period starts at the time when the radar system is detected.

According to RSS 247 § 6.3), Note: For the band 5600-5650 MHz, no operation is permitted. Until further notice, devices subject to this annex shall not be capable of transmitting in the band 5600-5650 MHz. This restriction is for the protection of Environment Canada weather radars operating in this band. Devices operating in the bands 5250-5350 MHz, 5470-5600MHz and 5650-5725 MHz band shall comply with the following:

- (a) Devices shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems (see Note below). The minimum DFS radar signal detection threshold is -62 dBm for devices with a maximum e.i.r.p. less than 200 mW, and -64 dBm for devices with a maximum e.i.r.p. of 200mW to 1 W. The detection threshold power is the received power, averaged over a 1-microsecond reference to a 0 dBi antenna. The DFS process shall provide a uniform spreading of the loading over all the available channels.

Note: Test procedures for demonstrating compliance with the DFS radar detection requirements

set out in this section are being evaluated by Industry Canada. As an interim measure, the Department will, until further notice, accept utilization of the DFS test procedures published by the U.S. Federal Communications Commission (FCC)<sup>3</sup> to demonstrate compliance with the requirements of this section.

- (b) Operational requirements: the requirement for channel availability check time applies in the master operational mode. The requirement for channel move time applies in both the master and slave operational modes.
- (i) In-service monitoring: an LE-LAN device should be able to monitor the operating channel to check that a co-channel radar has not moved or started operation within range of the LE-LAN device. During in-service monitoring, the LE-LAN radar detection function continuously searches for radar signals between normal LE-LAN transmissions.
- (ii) Channel availability check time: the device shall check if there is a radar system already operating on the channel before it initiates a transmission on a channel and when it moves to a channel. The device may start using the channel if no radar signal with a power level greater than the interference threshold value specified in A9.3 (a) above is detected within 60 seconds.
- (iii) Channel move time: after a radar's signal is detected, the device shall cease all transmissions on the operating channel within 10 seconds. Transmission during this period shall consist of normal traffic for a maximum of 200 ms after detection of the radar signal. Intermittent management and control signals may also be sent during the remaining time to facilitate vacating the operating channel.
- (iv) Channel closing time: the maximum channel closing time is 260 ms.
- (v) Non-occupancy period: a channel that has been flagged as containing a radar signal, either by a channel availability check or in-service monitoring, is subject to a 30-minute non-occupancy period where the channel cannot be used by the LE-LAN device. The non-occupancy period starts from the time that the radar signal is detected.

#### Limit:

Table 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 2: Applicability of DFS requirements during normal operation

| Requirement                       | Operational Mode                             |                                |
|-----------------------------------|----------------------------------------------|--------------------------------|
|                                   | Master Device or Client with Radar Detection | 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 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                                         |
| <b>Note:</b> 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 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring

| Maximum Transmit Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Value<br>(See Notes 1, 2, and 3) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| EIRP $\geq$ 200 milliwatt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -64 dBm                          |
| EIRP $<$ 200 milliwatt and<br>power spectral density $<$ 10 dBm/MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -62 dBm                          |
| EIRP $<$ 200 milliwatt that do not meet the power spectral<br>density requirement                                                                                                                                                                                                                                                                                                                                                                                                                                      | -64 dBm                          |
| <p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p>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.</p> <p>Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p> |                                  |

Table 4: DFS Response requirement values

| Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Value                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <i>Non-occupancy period</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Minimum 30 minutes                                                                                                    |
| <i>Channel Availability Check Time</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 60 seconds                                                                                                            |
| <i>Channel Move Time</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10 seconds<br>See Note 1.                                                                                             |
| <i>Channel Closing Transmission Time</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 200 milliseconds + an<br>aggregate of 60<br>milliseconds over<br>remaining 10 second<br>period.<br>See Notes 1 and 2. |
| <i>U-NII Detection Bandwidth</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Minimum 100% of the U-<br>NII 99% transmission<br>power bandwidth. See<br>Note 3.                                     |
| <p>Note 1: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p>Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel move</i> (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.</p> <p>Note 3: During the <i>U-NII Detection Bandwidth</i> 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.</p> |                                                                                                                       |

Table 5: Radar Test Waveforms

Short Pulse Radar

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

Long Pulse Radar

| 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                       |

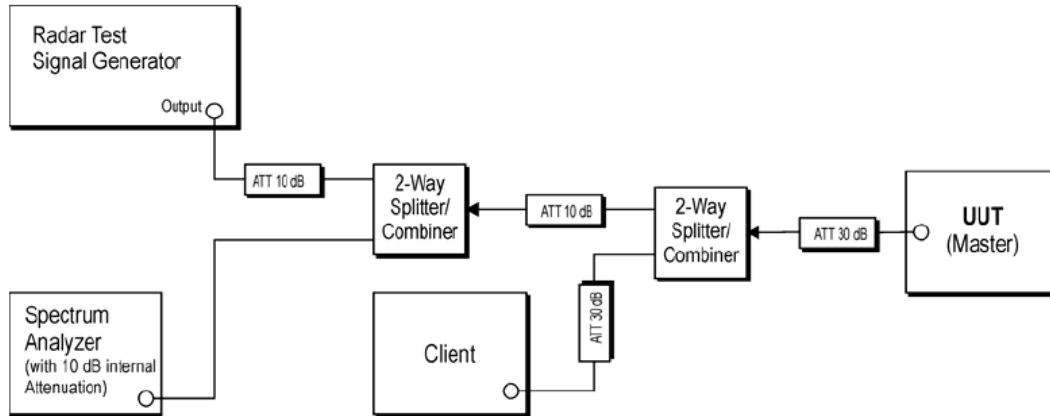
Frequency Hopping Radar

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

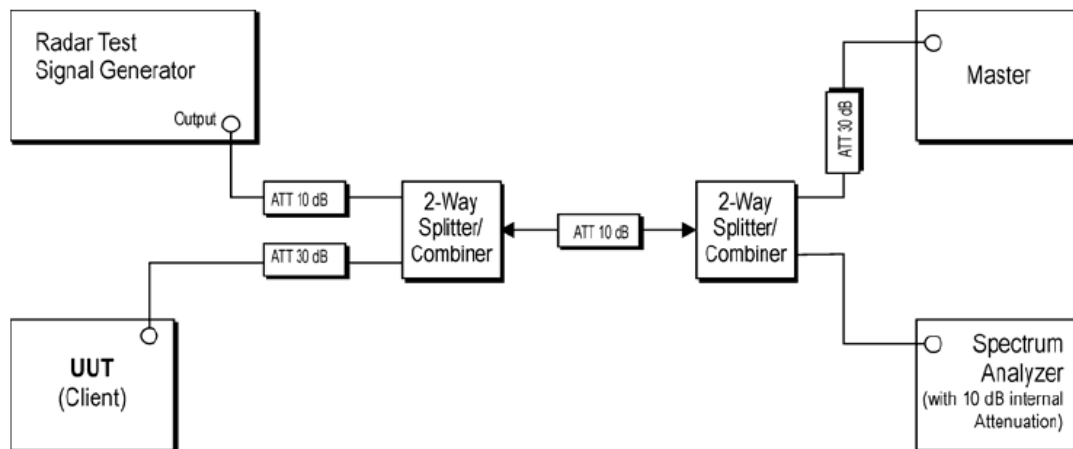
The applicant of this given application confirms that information regarding the parameters of the detected Radar Waveforms is not available to the end user.

## Test Setup

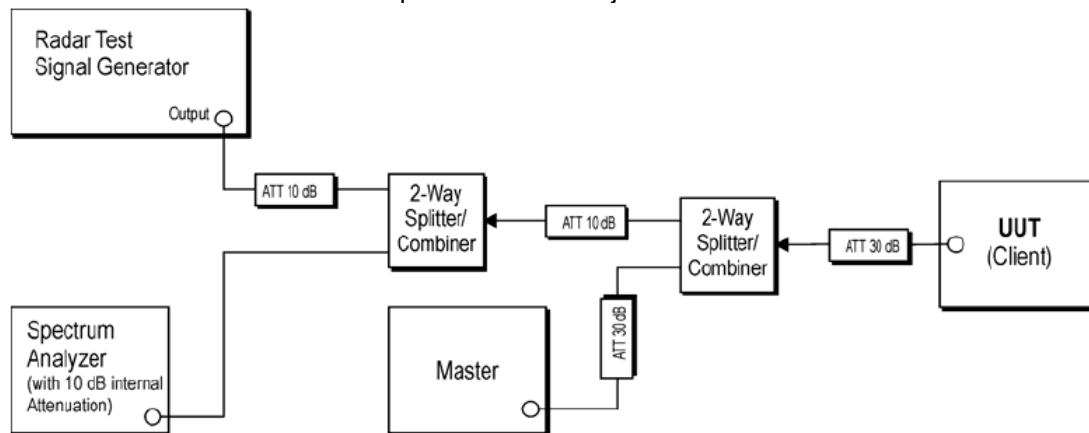
Setup for Master with injection at the Master



Setup for Client with injection at the Master



Setup for Client with injection at the Client



The rated output power of the master unit is >23dBm(EIRP).therefore the required interference threshold level is -64dBm.after correction for antenna gain and procedural adjustments, the required conducted threshold at the antenna port is -64dBm, and the master device as employed for the applicable DFS test is LINKSYS router.

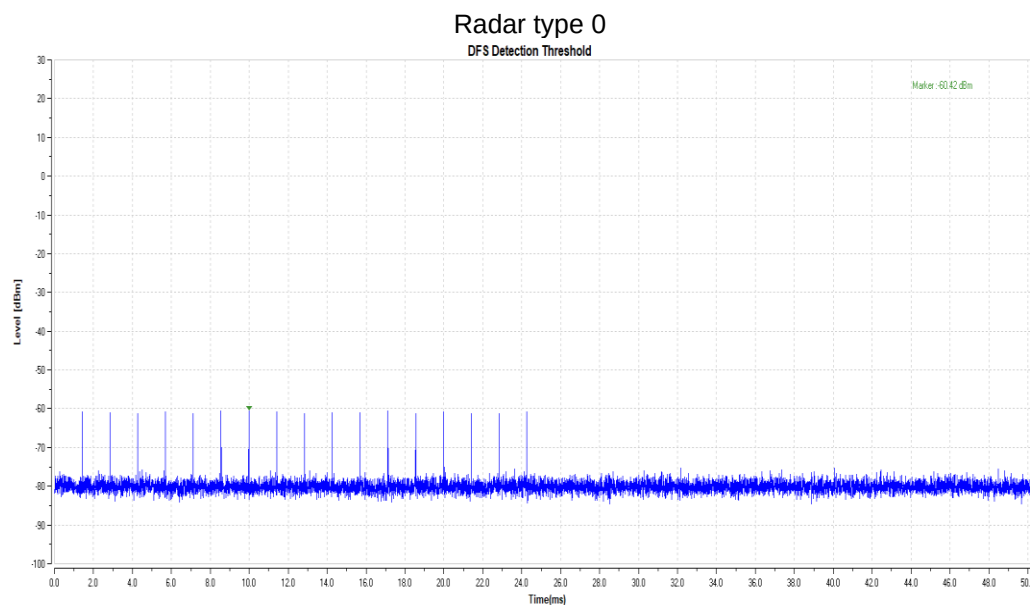
While calibrate the path on antenna port of DFS test equipment (master), measurements equipments (spectrum) is ensured to be 50 Ohms, and therefore verification on antenna gain measurement can be ignored.

Conducted test was performed with appropriate adjustment, and calibration to ensure power from DFS simulator injects to antenna port of DFS test equipment (DFS) is -57.77dBm

The Client Device (UUT) is set up to associate with the Master Device. The channel loading test file is streamed from the Master Device to the Client Device. Radar test waveforms generated with the vector signal generator are injected into the Master on the operating channel above the DFS detection threshold. Observations are done on the transmissions of the UUT at the end of the radar burst on the Operating Channel for a duration greater than 10 seconds. We measured the transmissions from the UUT during the observation time, after radar detection occurs the Channel Move Time and Channel Closing Transmission Time are recorded.

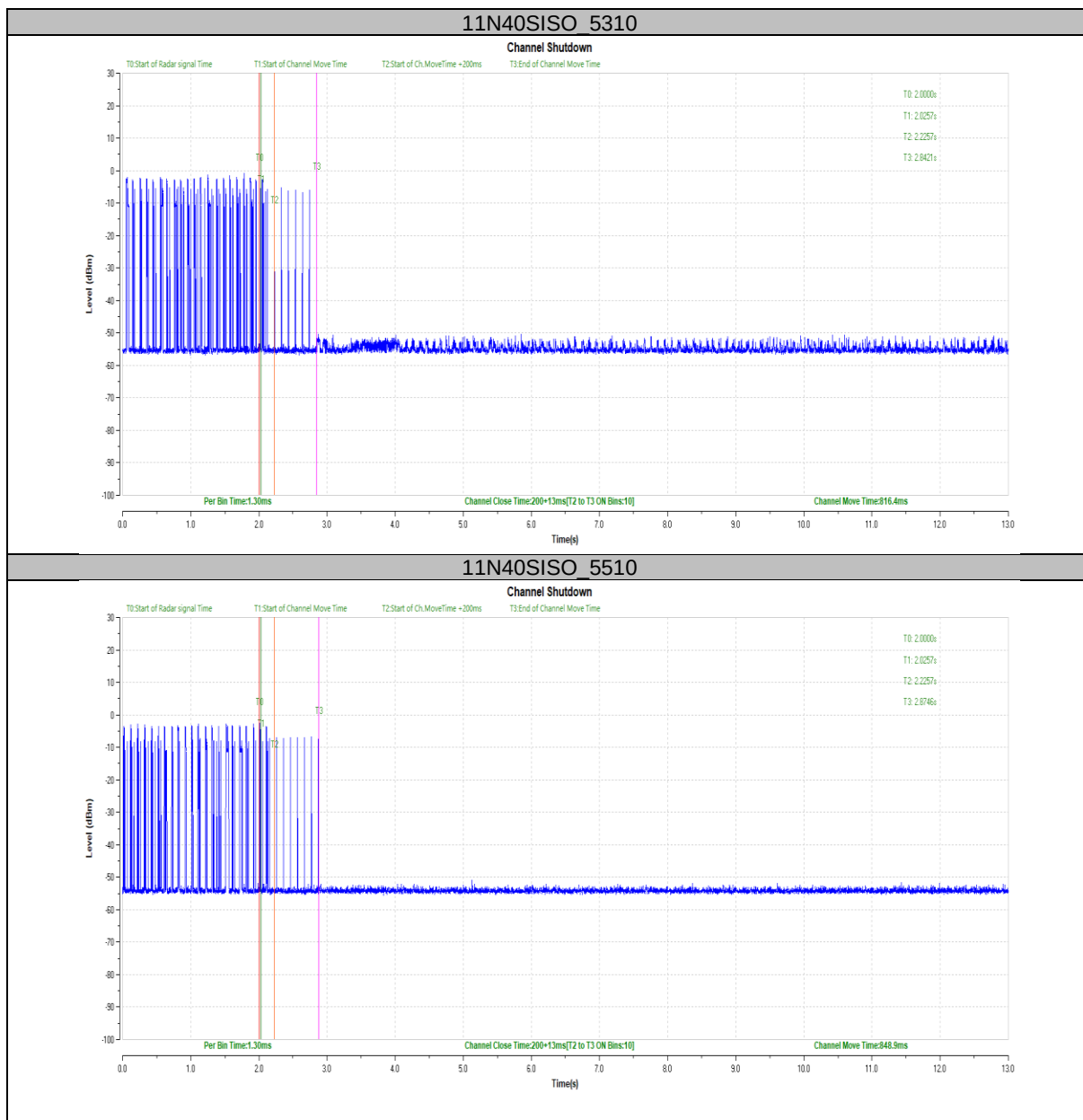
## Test results

Calibration plots for each of the required radar waveforms

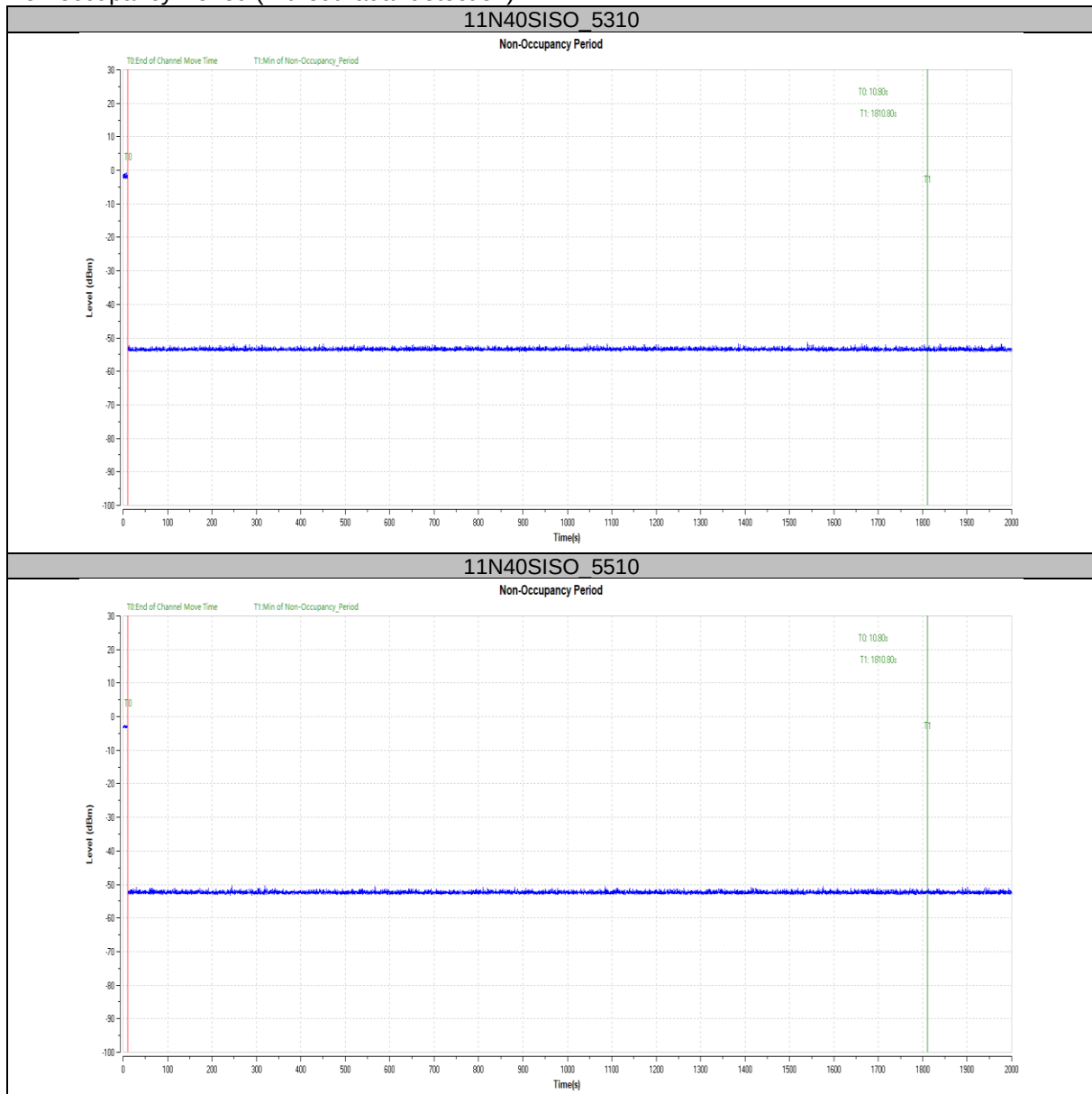


## Radar Type 0 Channel Move and Closing Transmission Time

| TestMode  | Channel | CCT[ms] | Limit[ms] | CMT[ms] | Limit[ms] | Verdict |
|-----------|---------|---------|-----------|---------|-----------|---------|
| 11N40SISO | 5310    | 200+13  | 200+60    | 816.4   | 10000     | PASS    |
|           | 5510    | 200+13  | 200+60    | 848.9   | 10000     | PASS    |



## Non-occupancy Period (without radar detection)



Verdict: To verify whether channel is unavailable to be operated in 30 minutes.  
 $1.8\text{ks} = 1800\text{s} = 1800\text{ s/min} / 60 = 30\text{minute}$

**END**