

# TEST REPORT

Applicant Name: Fanvil Link Technology Co.,LTD  
Address: Room 1517, Building G, Hualian City Panorama.27 Region,  
Bao'an District; Shenzhen, China  
Report Number: SZ1231214-75457E-RF-00B  
FCC ID: 2BCUQ-MS10

**Test Standard (s)**  
FCC PART 15.407

## Sample Description

Product Type: All-in-one Conference Solution  
Model No.: MS10  
Multiple Model(s) No.: CA400; CA400-MS10  
Trade Mark: **LINKVIL**  
Date Received: 2023/12/18  
Report Date: 2024/01/24

Test Result:

Pass▲

▲ In the configuration tested, the EUT complied with the standards above.

**Prepared and Checked By:**

*April Zhang*

April Zhang  
RF Engineer

**Approved By:**

*Nancy Wang*

Nancy Wang  
RF Supervisor

Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

| Revision Number | Report Number           | Description of Revision | Date of Revision |
|-----------------|-------------------------|-------------------------|------------------|
| 0               | SZ1231214-75457E-RF-00B | Original Report         | 2024/01/24       |

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

|                                        |                                                                                       |
|----------------------------------------|---------------------------------------------------------------------------------------|
| Product                                | All-in-one Conference Solution                                                        |
| Tested Model                           | MS10                                                                                  |
| Multiple Model(s)                      | CA400; CA400-MS10<br>(Please refer to the DoS <sup>#</sup> provided by the applicant) |
| Frequency Range                        | 5250-5350MHz; 5470-5725MHz                                                            |
| Mode                                   | 802.11a/n20/n40/ac20/ac40/ac80                                                        |
| Maximum Conducted Average Output Power | 5250-5350MHz: 16.47dBm<br>5470-5725MHz: 18.11dBm                                      |
| Modulation Technique                   | OFDM                                                                                  |
| Antenna Specification <sup>#</sup>     | 5.3dBi (provided by the applicant)                                                    |
| Voltage Range                          | DC5V from Type-C Port                                                                 |
| Sample serial number                   | 2F2I-1 (Assigned by BACL, Shenzhen)                                                   |
| Sample/EUT Status                      | Good condition                                                                        |
| Adapter Information                    | N/A                                                                                   |
|                                        |                                                                                       |

### Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts E of the Federal Communications Commission's rules.

The objective is to determine compliance with FCC Part 15, Subpart E, section 15.407 Dynamic Frequency Selection (DFS) for devices operating in the bands 5250-5350 MHz, 5470-5725 MHz.

### Test Methodology

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02.

Each test item follows test standards and with no deviation.

## Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The EUT was configured for testing in an engineering mode which was provided by the manufacturer.

EUT Exercise Software

N/A

Equipment Modifications

N/A

Support Equipment List and Details

| Manufacturer | Description | Model                           | Serial Number |
|--------------|-------------|---------------------------------|---------------|
| TP-Link      | Router      | RE705X<br>(FCC ID: 2AXJ4RE705X) | 22272F6001499 |
| DELL         | Notebook    | Latitude E6410                  | 11429208685   |

External I/O Cable

| Cable Description                  | Length (m) | From Port | To       |
|------------------------------------|------------|-----------|----------|
| Un-Shielding Detachable RJ45 Cable | 1.5        | Router    | Notebook |
| Un-Shielding Detachable USB Cable  | 1.0        | EUT       | Notebook |

## SUMMARY OF TEST RESULTS

The following result table represents the list of measurements required under the CFR §47 Part 15.407(h), and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02

| Items                          | Description of Test                           | Result         |
|--------------------------------|-----------------------------------------------|----------------|
| Detection Bandwidth            | UNII Detection Bandwidth                      | Not Applicable |
| Performance Requirements Check | Initial Channel Availability Check Time (CAC) | Not Applicable |
|                                | Radar Burst at the Beginning of the CAC       | Not Applicable |
|                                | Radar Burst at the End of the CAC             | Not Applicable |
| In-Service Monitoring          | Channel Move Time                             | Compliant      |
|                                | Channel Closing Transmission Time             | Compliant      |
|                                | Non-Occupancy Period                          | Compliant      |
| Radar Detection                | Statistical Performance Check                 | Not Applicable |

Note: EUT is client without radar detection

TEST EQUIPMENT LIST

| Manufacturer    | Description                  | Model    | Serial Number | Calibration Date | Calibration Due Date |
|-----------------|------------------------------|----------|---------------|------------------|----------------------|
| Tonscend        | RF control Unit              | JS0806-2 | 19D8060154    | 2023/09/06       | 2024/09/05           |
| Rohde & Schwarz | Signal and Spectrum Analyzer | FSV40    | 101473        | 2023/02/08       | 2024/02/07           |
| Keysight        | MXG Vector Signal Generator  | N5182B   | MY53051503    | 2024/01/08       | 2025/01/07           |
| Unknown         | RF Cable                     | 65475    | 01670515      | 2023/07/04       | 2024/07/03           |

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

## APPLICABLE STANDARDS

### DFS Requirement

CFR §47 Part 15.407(h)

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

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

| Requirement                            | Operational Mode |                                |                             |
|----------------------------------------|------------------|--------------------------------|-----------------------------|
|                                        | Master           | Client Without Radar Detection | Client With Radar Detection |
| <i>Non-Occupancy Period</i>            | Yes              | Not required                   | Yes                         |
| <i>DFS Detection Threshold</i>         | Yes              | Not required                   | Yes                         |
| <i>Channel Availability Check Time</i> | Yes              | Not required                   | Not required                |
| <i>U-NII Detection Bandwidth</i>       | 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 |
| <i>DFS Detection Threshold</i>           | Yes                                          | Not required                   |
| <i>Channel Closing Transmission Time</i> | Yes                                          | Yes                            |
| <i>Channel Move Time</i>                 | Yes                                          | Yes                            |
| <i>U-NII Detection Bandwidth</i>         | Yes                                          | Not required                   |

| Additional requirements for devices with multiple bandwidth modes                                                                                                                                                                                                                                                                                            | Master Device or Client with Radar Detection | Client Without Radar Detection                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|
| <i>U-NII Detection Bandwidth and Statistical Performance Check</i>                                                                                                                                                                                                                                                                                           | All BW modes must be tested                  | Not required                                         |
| <i>Channel Move Time and Channel Closing Transmission Time</i>                                                                                                                                                                                                                                                                                               | Test using widest BW mode available          | Test using the widest BW mode available for the link |
| <i>All other tests</i>                                                                                                                                                                                                                                                                                                                                       | 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: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection**

| 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><b>Note 1:</b> This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p><b>Note 2:</b> 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><b>Note 3:</b> 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><b>Note 1:</b> <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><b>Note 2:</b> 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</i> 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.</p> <p><b>Note 3:</b> 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 – Short Pulse Radar Test Waveforms**

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

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

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 usec is selected, the number of pulses

would be  $\text{Roundup} \left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{3066} \right) \right\} = \text{Roundup} \{17.2\} = 18.$

**Table 5a - Pulse Repetition Intervals Values for Test A**

| <b>Pulse Repetition Frequency Number</b> | <b>Pulse Repetition Frequency (Pulses Per Second)</b> | <b>Pulse Repetition Interval (Microseconds)</b> |
|------------------------------------------|-------------------------------------------------------|-------------------------------------------------|
| 1                                        | 1930.5                                                | 518                                             |
| 2                                        | 1858.7                                                | 538                                             |
| 3                                        | 1792.1                                                | 558                                             |
| 4                                        | 1730.1                                                | 578                                             |
| 5                                        | 1672.2                                                | 598                                             |
| 6                                        | 1618.1                                                | 618                                             |
| 7                                        | 1567.4                                                | 638                                             |
| 8                                        | 1519.8                                                | 658                                             |
| 9                                        | 1474.9                                                | 678                                             |
| 10                                       | 1432.7                                                | 698                                             |
| 11                                       | 1392.8                                                | 718                                             |
| 12                                       | 1355                                                  | 738                                             |
| 13                                       | 1319.3                                                | 758                                             |
| 14                                       | 1285.3                                                | 778                                             |
| 15                                       | 1253.1                                                | 798                                             |
| 16                                       | 1222.5                                                | 818                                             |
| 17                                       | 1193.3                                                | 838                                             |
| 18                                       | 1165.6                                                | 858                                             |
| 19                                       | 1139                                                  | 878                                             |
| 20                                       | 1113.6                                                | 898                                             |
| 21                                       | 1089.3                                                | 918                                             |
| 22                                       | 1066.1                                                | 938                                             |
| 23                                       | 326.2                                                 | 3066                                            |

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

| <b>Radar Type</b>                                    | <b>Number of Trials</b> | <b>Number of Successful Detections</b> | <b>Minimum Percentage of Successful Detection</b> |
|------------------------------------------------------|-------------------------|----------------------------------------|---------------------------------------------------|
| 1                                                    | 35                      | 29                                     | 82.9%                                             |
| 2                                                    | 30                      | 18                                     | 60%                                               |
| 3                                                    | 30                      | 27                                     | 90%                                               |
| 4                                                    | 50                      | 44                                     | 88%                                               |
| Aggregate $(82.9\% + 60\% + 90\% + 88\%)/4 = 80.2\%$ |                         |                                        |                                                   |

**Table 6 – Long Pulse Radar Test Waveform**

| Radar Type | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | PRI ( $\mu$ sec) | Number of Pulses per <i>Burst</i> | Number of <i>Bursts</i> | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|------------|--------------------------|-------------------|------------------|-----------------------------------|-------------------------|--------------------------------------------|--------------------------|
| 5          | 50-100                   | 5-20              | 1000-2000        | 1-3                               | 8-20                    | 80%                                        | 30                       |

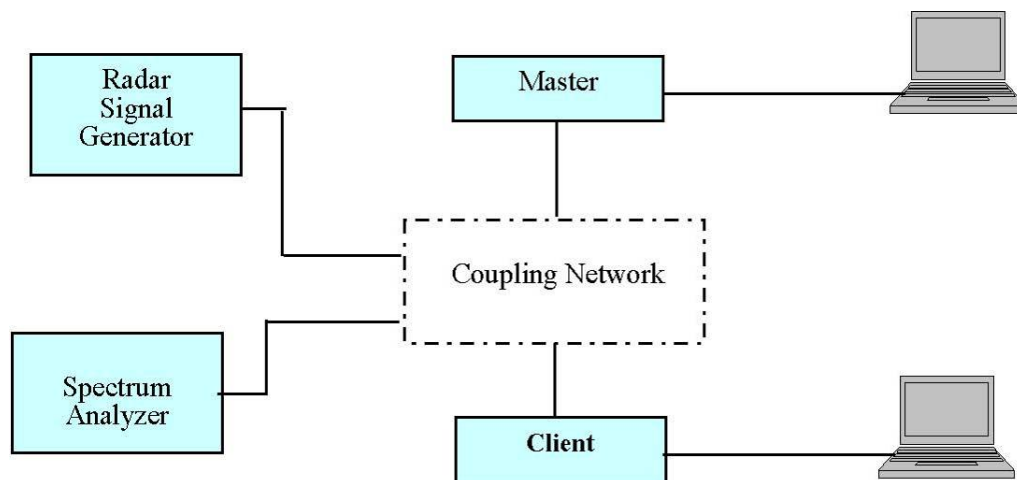
**Table 7 – Frequency Hopping Radar Test Waveform**

| Radar Type | Pulse Width ( $\mu$ sec) | PRI ( $\mu$ sec) | 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                       |

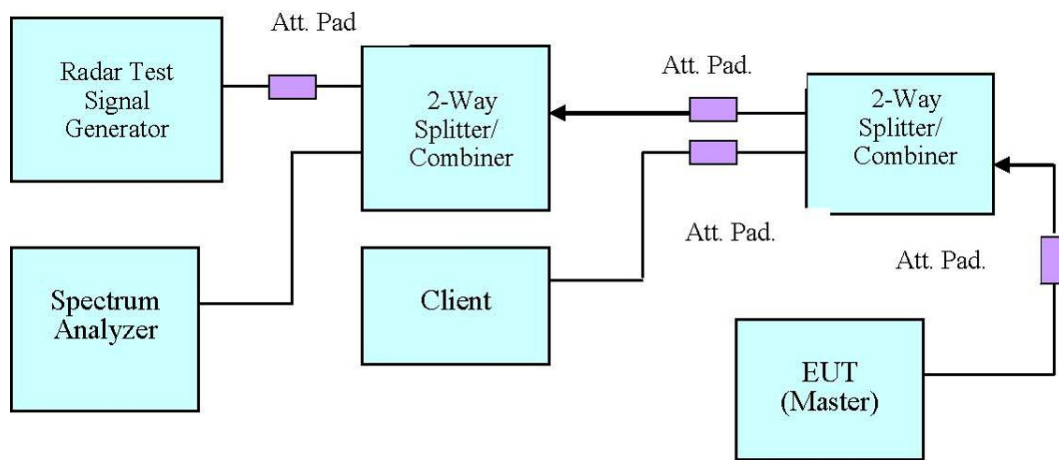
## DFS Measurement System

DFS measurement system consists of two subsystems: (1) The radar signal generating subsystem and (2) the traffic monitoring subsystem.

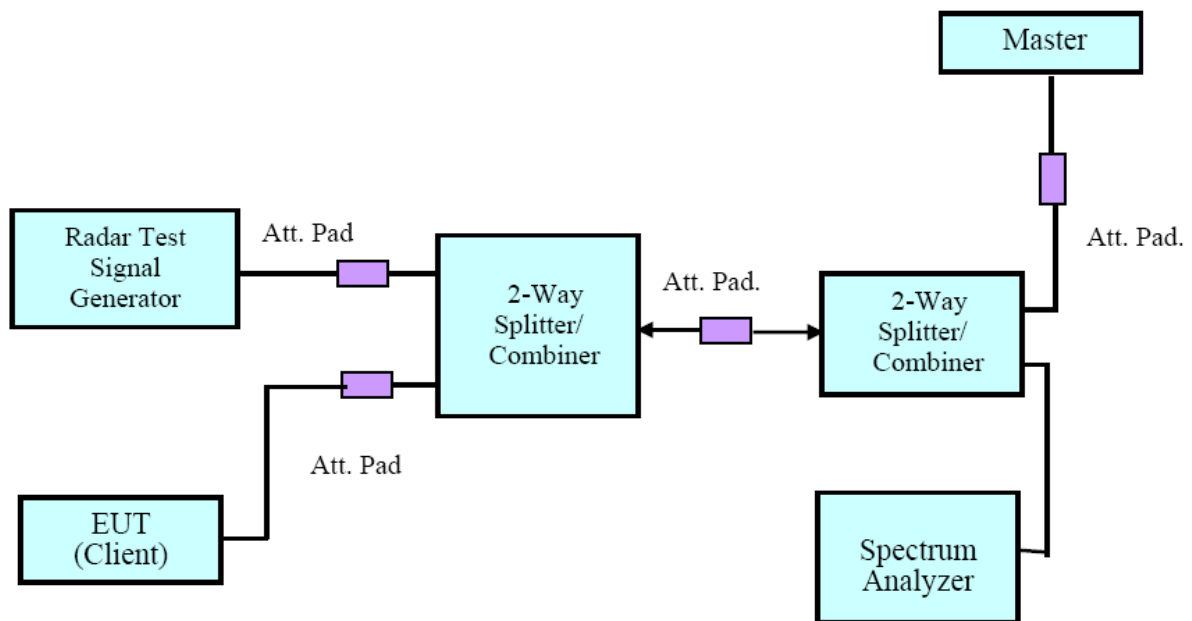
## System Block Diagram



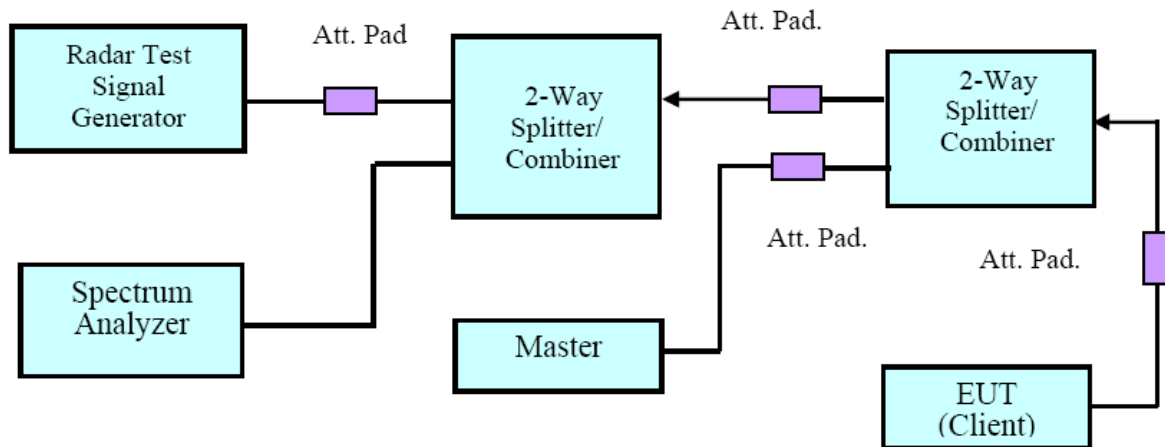
## Conducted Method



## Setup for Master with injection at the Master

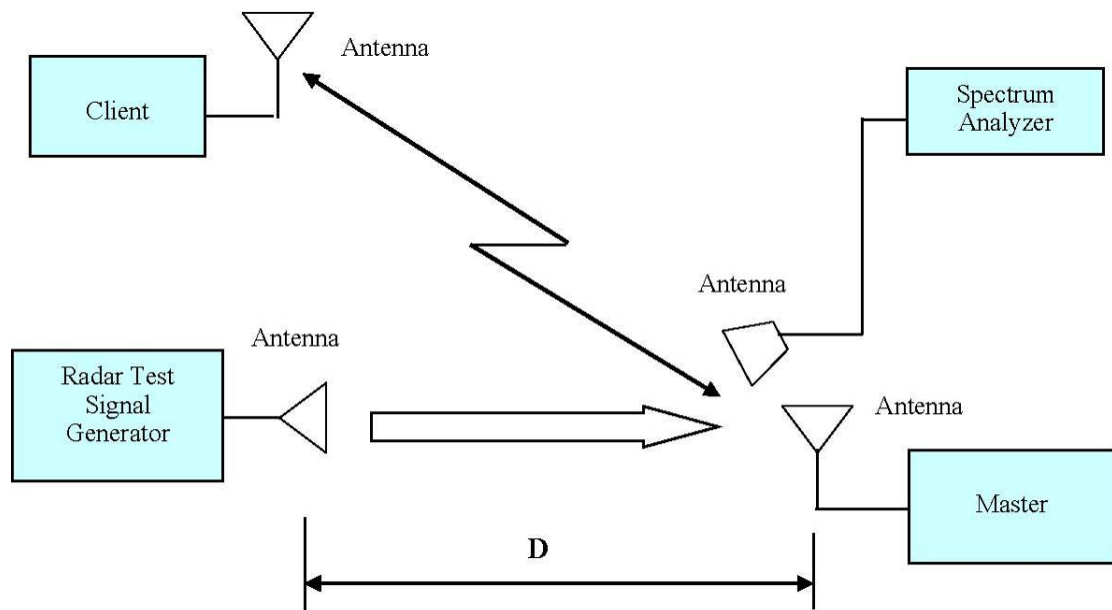


## Setup for Client with injection at the Master



**Setup for Client with injection at the Client**

### Radiated Method



### Test Procedure

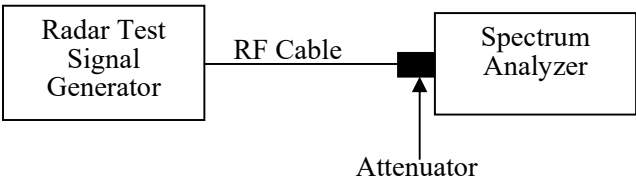
A spectrum analyzer is used as a monitor verifies that the EUT status including Channel Closing Transmission Time and Channel Move Time, and does not transmit on a Channel during the Non-Occupancy Period after the diction and Channel move.

TEST RESULTS

Description of EUT

The calibrated radiated DFS detection threshold level is set to -64 dBm.

Radar Waveform Calibration



Test Data

Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 25.7 °C   |
| Relative Humidity: | 39 %      |
| ATM Pressure:      | 102.4 kPa |

The testing was performed by Tom Liu on 2024-01-24.

EUT operation mode: Transmitting

Test Result: Compliant

Please refer to the Appendix.

**CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME**

**Test Procedure**

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. repeat using a long pulse radar type5 waveform.

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.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = N\*Dwell Time

N is the number of spectrum analyzer bins showing a device transmission Dwell Time is the dwell time per bin (i.e. Dwell Time = S/B, S is the sweep time and B is the number of bin, i.e. 8192)

**Test Data**

**Environmental Conditions**

|                    |           |
|--------------------|-----------|
| Temperature:       | 25.7 °C   |
| Relative Humidity: | 39 %      |
| ATM Pressure:      | 102.4 kPa |

*The testing was performed by Tom Liu on 2024-01-24.*

*EUT operation mode: Transmitting*

***Test Result: Compliant***

*Please refer to the Appendix.*

NON-OCCUPANCY PERIOD

Test Procedure

Measure the EUT for more than 30 minutes following the channel close.move time to very that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

Test Data

Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 25.7 °C   |
| Relative Humidity: | 39 %      |
| ATM Pressure:      | 102.4 kPa |

The testing was performed by Tom Liu on 2024-01-24.

EUT operation mode: Transmitting

Test Result: Compliant

Please refer to the Appendix.

## **EUT PHOTOGRAPHS**

Please refer to the attachment SZ1231214-75457E-RF External photo and SZ1231214-75457E-RF Internal photo.

## **TEST SETUP PHOTOGRAPHS**

---

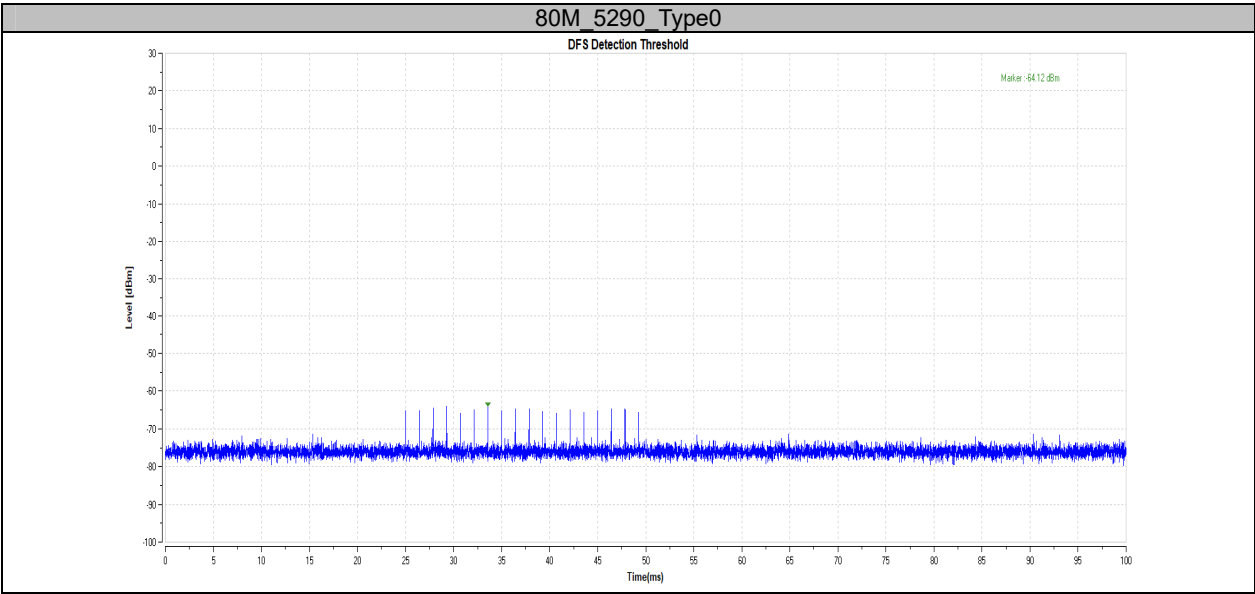
Please refer to the attachment SZ1231214-75457E-RF Test Setup photo.

APPENDIX

Appendix A: DFS Detection Thresholds  
Test Result

| Test Mode | Frequency[MHZ] | Radar Type | Result [dBm] | Limit [dBm] | Verdict |
|-----------|----------------|------------|--------------|-------------|---------|
| 80M       | 5290           | Type0      | -64.12       | -64.00      | PASS    |

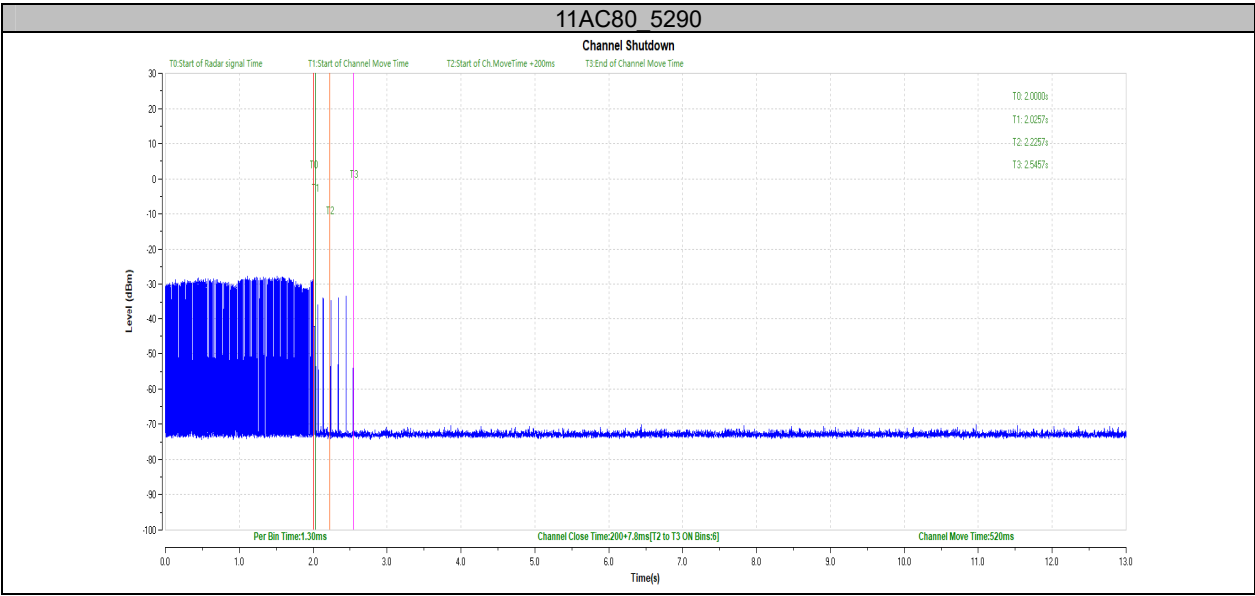
Test Graphs



Appendix B: Channel Move Time and Channel Closing Transmission Time  
Test Result

| Test Mode | Frequency[MHz] | CCTT[ms] | Limit[ms] | CMT[ms] | Limit[ms] | Verdict |
|-----------|----------------|----------|-----------|---------|-----------|---------|
| 11AC80    | 5290           | 200+7.8  | 200+60    | 520     | 10000     | PASS    |

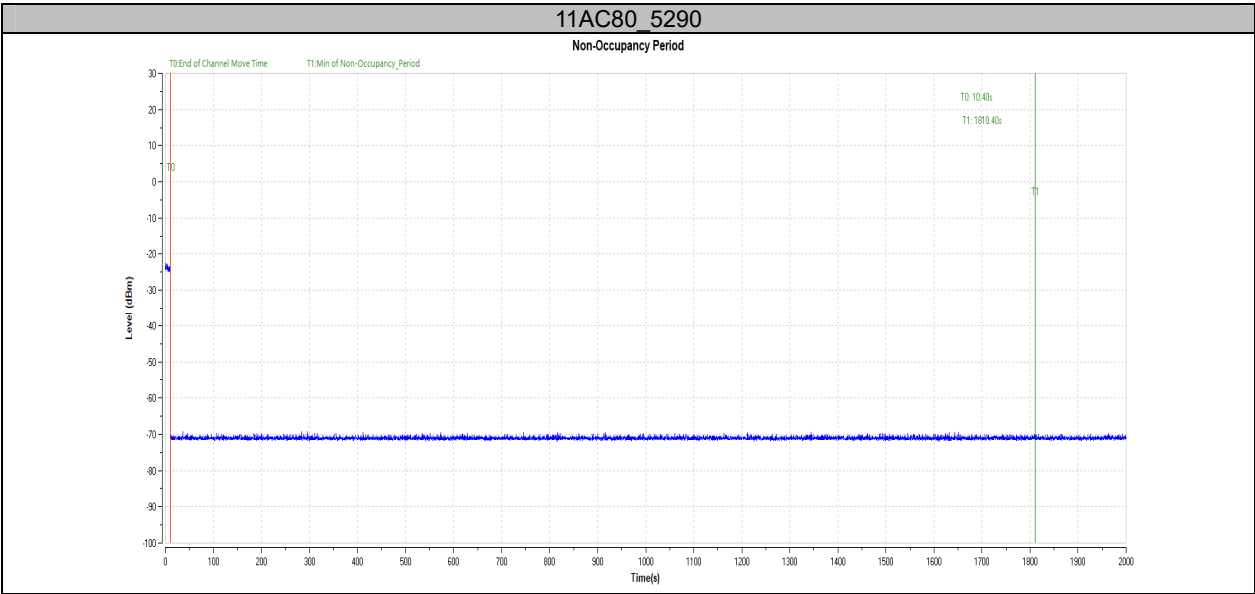
Test Graphs



Appendix C: Non-Occupancy Period  
Test Result

| Test Mode | Frequency[MHz] | Result         | Limit[s] | Verdict |
|-----------|----------------|----------------|----------|---------|
| 11AC80    | 5290           | see test graph | ≥1800    | PASS    |

Test Graphs



\*\*\*\*\* END OF REPORT \*\*\*\*\*