

Report No.: KSCR220900161103

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DFS TEST REPORT

Application No.: KSCR2209001611AT

FCC ID: 2APJ4-SLM500 **IC**: 23860-SLM500

Applicant: MeiG Smart Technology Co., Ltd

Address of Applicant: 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong

Street, Bao'an District, Shenzhen, China.

Manufacturer: MeiG Smart Technology Co., Ltd

Address of Manufacturer: 2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong

Street, Bao'an District, Shenzhen, China.

Equipment Under Test (EUT):

EUT Name: Smart module

Model No.: SLM500

Trade mark: Meig Link

Standard(s): 47 CFR Part 15, Subpart E 15.407

RSS-247 Issue 2, February 2017

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02

KDB 905462 D04 Operational Modes for DFS Testing New Rules v01

Date of Receipt: 2022-09-01

Date of Test: 2022-09-01 to 2022-09-01

Date of Issue: 2022-09-02

Test Result: Pass*

Eric Lin Laboratory Manager

Frie fin



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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| Revision Record | | | | |
|-----------------|-------------|------------|--|--|
| Version | Description | Date | Remark | |
| 00 | C2PC | 2022-09-02 | Based on SZCR2103000030AT Added 802.11AC | |
| | | | | |

| Authorized for issue by: | | |
|--------------------------|-----------------------------|---|
| | Damon zhou | |
| | Damon_Zhou/Project Engineer | - |
| | Enie Li | |
| | Eric Lin /Reviewer | - |



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2 Test Summary

| Item | Standard | Method | Requirement | Result |
|-------------------|------------------|----------------|----------------|--------|
| Channel Move Time | 47 CFR Part 15, | KDB 905462 D02 | KDB 905462 D02 | Pass |
| Charmer wove Time | Subpart E 15.407 | Section 7.8.3 | Section 5.1 | Fa55 |
| Channel Closing | 47 CFR Part 15, | KDB 905462 D02 | KDB 905462 D02 | Doos |
| Transmission Time | Subpart E 15.407 | Section 7.8.3 | Section 5.1 | Pass |
| Non-occupancy | 47 CFR Part 15, | KDB 905462 D02 | KDB 905462 D02 | Pass |
| period | Subpart E 15.407 | Section 7.8.3 | Section 5.1 | Fa55 |



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4 General Information

4.1 Details of E.U.T.

| 2014 | | |
|---------------------|--|--|
| Power supply: | DC 3.8V by DC power supply | |
| Test voltage: | DC 3.8V | |
| Serial Number: | M500QE8BYA071000060 | |
| Firmware version: | SLM500Q_EQ000_2774.2AAF2F74.BCA2CDE_200628_100_V01_T09 | |
| DFS Function: | Slave without Radar detection | |
| TPC Function: | Not Support | |
| | U-NII-1: 5180-5240MHz | |
| Operation Frequency | U-NII-2A: 5260-5320MHz | |
| (20MHz): | U-NII-2C: 5500-5700MHz | |
| | U-NII-3: 5745-5825MHz | |
| | U-NII-1: 5190-5230MHz | |
| Operation Frequency | U-NII-2A: 5270-5310MHz | |
| (40MHz): | U-NII-2C: 5510-5670MHz | |
| | U-NII-3: 5755-5795MHz | |
| | U-NII-1: 5210MHz | |
| Operation Frequency | U-NII-2A: 5290MHz | |
| (80MHz): | U-NII-2C: 5530-5610MHz | |
| | U-NII-3: 5775MHz | |
| Moudulation Type: | 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM | |
| | 802.11ac(VHT20): 20MHz | |
| Channel Spacing: | 802.11ac(VHT40): 40MHz | |
| | 802.11ac(VHT80): 80MHz | |
| DFS Function: | Slave without Radar detection | |
| Antenna Type: | Dipole Antenna | |
| Antenna Gain: | 1dBi (Provided by manufacturer) | |
| | | |



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4.2 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

4.3 Test Facility

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

• CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC (Designation Number: CN1172)

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISED (CAB identifier: CN0072)

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

• VCCI (Member No.: 1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600,C-11707, T-11499, G-10216 respectively.

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



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5 Equipment List

| Item | Equipment | Manufacturer | Model | Serial Number | Cal Date | Cal. Due Date | |
|------|--------------------------|---------------|------------|---------------|------------|------------------|--|
| R | RF Conducted Test | | | | | | |
| 1 | Spectrum Analyzer | Agilent | E4446A | MY44020154 | 04/16/2022 | 04/15/2023 | |
| 2 | Spectrum Analyzer | Keysight | N9020A | MY55370209 | 12/02/2021 | 12/01/2022 | |
| 3 | Spectrum Analyzer | Keysight | N9010A | MY56480443 | 02/01/2022 | 01/31/2023 | |
| 4 | Signal Generator | Agilent | N5182A | MY50142015 | 09/25/2021 | 09/24/2022 | |
| 5 | Power Meter | Anritsu | ML2495A | 1445010 | 04/15/2022 | 04/14/2023 | |
| 6 | Switcher | CCSRF | FY562 | KUS2001M001-3 | 10/19/2021 | 10/18/2022 | |
| 7 | 6dB Attenuator | Mini-Circuits | NAT-6-2W | 15542-1 | N.C.R | N.C.R | |
| 8 | Power Divider | AISI | IOWOPE2068 | PE2068 | N.C.R | N.C.R | |
| 9 | Filter | MICRO-TRONICS | BRM50701 | 5 | N.C.R | N.C.R | |
| 10 | Conducted test cable | 1 | RF01-RF04 | 1 | 04/15/2022 | 04/14/2023 | |
| 11 | Software | BST | TST-PASS | N/A | N/A | N/A | |
| 12 | Temp. / Humidity Chamber | TERCHY | MHK-120AK | X30109 | 04/15/2022 | 04/14/2023 | |
| 13 | Thermometer | Anymetre | TH603 | CCS007 | 10/16/2021 | 10/15/2022 | |



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6 Dynamic Frequency Selection

6.1 Applicability of DFS requirements

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

| rable 1.7 (ppiloability of B1 of toquironionio 1 hor to goo of a chiarmon | | | | |
|---|------------------|------------------------------------|-----------------------------|--|
| | Operational Mode | | | |
| Requirement | □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

| | Operational Mode | | |
|-----------------------------------|---|------------------------------------|--|
| Requirement | ☐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 modes | ☐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.



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6.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

| Maximum Transmit Power | Value (See Notes 1, 2, and 3) |
|--|-------------------------------|
| EIRP ≥ 200 milliwatt | -64 dBm |
| EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz | -62 dBm |
| EIRP < 200 milliwatt 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

6.3 DFS Response Requirements

Table 4: DFS Response Requirement Values

| Parameter | Value |
|-----------------------------------|---|
| Non-occupancy period | Minimum 30 minutes |
| Channel Availability Check Time | 60 seconds |
| Channel Move Time | 10 seconds |
| Charmer wove Time | See Note 1. |
| Channel Closing Transmission Time | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. |
| | See Notes 1 and 2. |
| U-NII Detection Bandwidth | Minimum 100% of the U-NII 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 facilitating a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
- Note 3: During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.



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6.4 Parameters of radar test Waveforms

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

6.4.1 Short Pulse Radar Test Waveforms

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 |
| | | Test A | [(1)] | | |
| 1 | 1 | Test B | Roundup $ \left\{ \frac{360}{360} \right\}^{\circ} $ $ \left\{ \frac{19 \cdot 10^{6}}{PRI_{\mu sec}} \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 (Rad | 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.

Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a

Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A

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.

Test aggregate is average of the percentage of successful detections of short pulse radar types 1-4



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Table 5a - Pulse Repetition Intervals Values for Test A

| Pulse Repetition Frequency | Pulse Repetition Frequency | Pulse Repetition Interval |
|-------------------------------|-------------------------------|------------------------------|
| Number | (Pulses Per Second) | (Microseconds) |
| 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 |



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6.4.2 Long Pulse Radar Test Waveform

Table 6 – Long Pulse Radar Test Waveform

| Radar Type | Pulse Width (µsec) | Chirp Width (MHz) | PRI (µsec) | Number of Pulses per <i>Burst</i> | 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 |

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Each waveform is defined as follows:

- 1) The transmission period for the Long Pulse Radar test signal is 12 seconds.
- 2) There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst Count.
- 3) Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.
- 4) The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.
- 5) Each pulse has a linear frequency modulated chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a transmission period will have the same chirp width. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.
- 6) If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the random time interval between the first and second pulses is chosen independently of the random time interval between the second and third pulses.
- 7) The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst Count. Each interval is of length (12,000,000 / Burst Count) microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and [(12,000,000 / Burst Count) (Total Burst Length) + (One Random PRI Interval)] microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen randomly.

A representative example of a Long Pulse Radar Type waveform:

- 1) The total test waveform length is 12 seconds.
- 2) Eight (8) Bursts are randomly generated for the Burst Count.
- 3) Burst 1 has 2 randomly generated pulses.
- 4) The pulse width (for both pulses) is randomly selected to be 75 microseconds.



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- 5) The PRI is randomly selected to be at 1213 microseconds.
- 6) Bursts 2 through 8 are generated using steps 3 5.
- 7) Each Burst is contained in even intervals of 1,500,000 microseconds. The starting location for Pulse 1, Burst 1 is randomly generated (1 to 1,500,000 minus the total Burst 1 length + 1 random PRI interval) at the 325,001 microsecond step. Bursts 2 through 8 randomly fall in successive 1,500,000 microsecond intervals (i.e. Burst 2 falls in the 1,500,001 3,000,000 microsecond range).



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6.4.3 Frequency Hopping Radar Test Waveform

Table 7 – Frequency Hopping Radar Test Waveform

| Туре | 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 |

For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.



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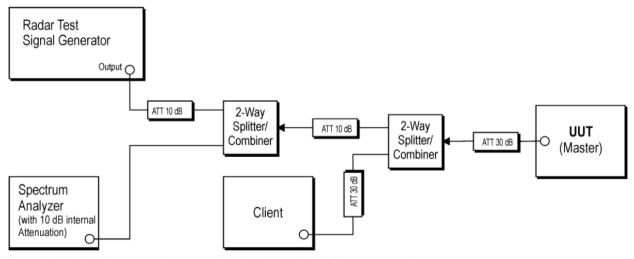
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6.5 Calibration of Radar Waveform

6.5.1 Radar Waveform Calibration Procedure

- 1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master
- 2) The interference Radar Detection Threshold Level is -62dBm+1dBi +1dB = -60dBm that had been taken into account the output power range and antenna gain.
- 3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset -1.0dB to compensate RF cable loss 1.0dB.
- 4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was -62.22dBm. Capture the spectrum analyzer plots on short pulse radar waveform.

6.5.2 Conducted Calibration Setup



Remark: During the test, a lower radar signal level -60dBm was used.



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6.6 Test Procedure

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



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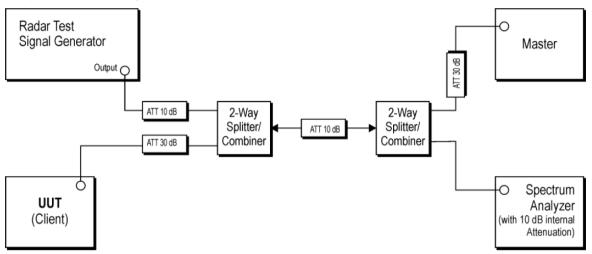


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6.7 Test Setup

Setup for Client with injection at the Master



6.8 Channel Loading

System testing will be performed with channel-loading using means appropriate to the data types that are used by the unlicensed device. The following requirements apply:

| | a) The data file must be of a type that is typical for the device (i.e., MPEG-2, MPEG-4, WAV, MP3, MP4, AVI, etc.) and must generally be transmitting in a streaming mode. |
|-------------|---|
| | b) Software to ping the client is permitted to simulate data transfer but must have random ping intervals. |
| \boxtimes | c) Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, channel loading can be estimated by setting the spectrum analyzer for zero span and approximate the Time On/ (Time On + Off Time). This can be done with any appropriate channel BW and modulation type. |
| | d) Unicast or Multicast protocols are preferable but other protocols may be used. The appropriate protocol used must be described in the test procedures. |



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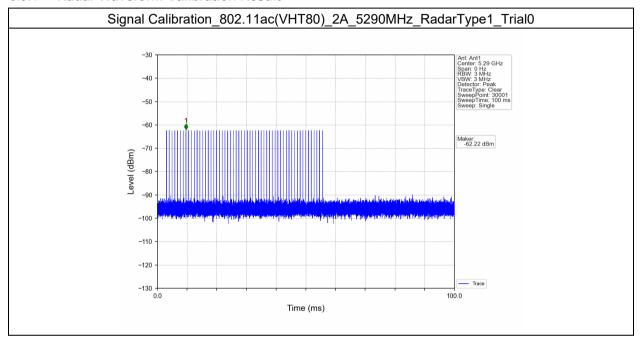


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6.9 Test Result

6.9.1 Radar Waveform Calibration Result





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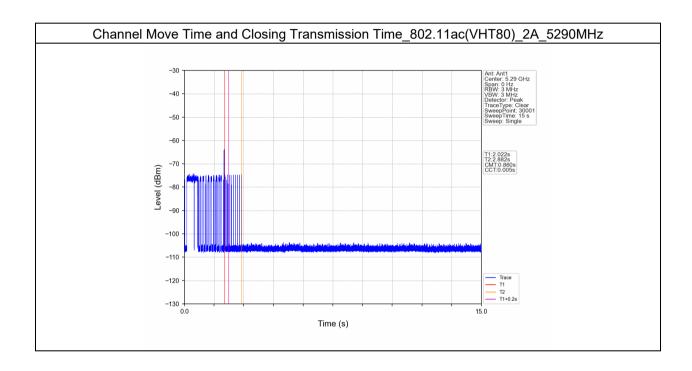


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6.9.2 Channel Shutdown

| Band: 2A | | | | | | |
|---------------------|-----------|--------------------|-------------------------|---------|---------|--|
| Mode | Bandwidth | Frequency (MHz) | Channel Move Time and C | Verdict | | |
| iviode | (MHz) | | Result | Limit | verdict | |
| 802.11ac (VHT80) | 80 | 5290 | Refer To Test Graph | | Pass | |





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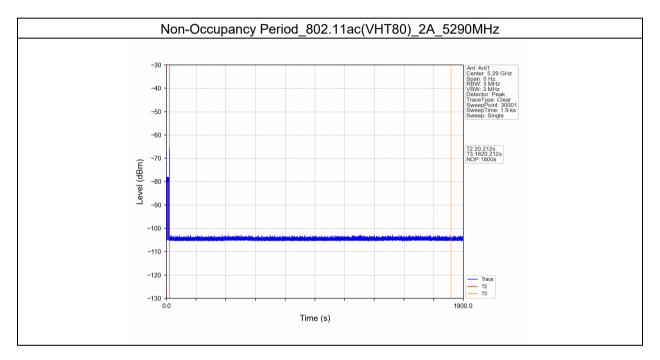


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6.9.3 Non-occupancy period

| Band: 2A | | | | | | |
|---------------------|--------------------|--------------------|----------------------|-------|----------|--|
| Mode | Bandwidth (MHz) | Frequency (MHz) | Non-Occupancy Period | | \/andiat | |
| Mode | | | Result | Limit | Verdict | |
| 802.11ac (VHT80) | 80 | 5290 | Refer To Test Graph | | Pass | |



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