| | VERITAS |
|---|---|
| | DFS Test Report |
| Report No.: | RFBGQZ-WTW-P21031056-4 |
| FCC ID: | M72-EDGEE550 |
| Test Model: | POLY EDGE E550 |
| Received Date: | Mar. 30, 2021 |
| Test Date: | Apr. 26, 2022 |
| Issued Date: | May 27, 2022 |
| | Polycom Inc. |
| Address: | 6001 America Center Drive, San Jose, California 95002, United States |
| Issued By: | Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories |
| Lab Address: | No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan |
| Test Location: | No.19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan |
| FCC Registration / Designation Number: | 788550 / TW0003 |
| | |
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This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of its report is report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specification, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.

Testing Laboratory 2021



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Release Control Record

| Issue No. | Description | Date Issued |
|------------------------|------------------|--------------|
| RFBGQZ-WTW-P21031056-4 | Original Release | May 27, 2022 |



1 **Certificate of Conformity**

| Product: | IP Phone |
|----------------|--|
| Brand: | POLY |
| Test Model: | POLY EDGE E550 |
| Sample Status: | Engineering Sample |
| Applicant: | Polycom Inc. |
| Test Date: | Apr. 26, 2022 |
| Standards: | FCC Part 15, Subpart E (Section 15.407) |
| | KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 |
| | KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02 |

The above equipment has been tested by Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by :

Vera Huang, Date: May 27, 2022

Vera Huang / Specialist

Approved by :

Jeremy Lin, Date:

May 27, 2022

Jeremy Lin / Project Engineer



2 EUT Information

2.1 Operating Frequency Bands and Mode of EUT

Table 1: Operating Frequency Bands and Mode of EUT

| Operational Mode | Operating Frequency Range | | |
|--|---------------------------|--------------|--|
| Operational Mode | 5250~5350MHz | 5470~5725MHz | |
| Client without radar detection and ad hoc function | \checkmark | ✓ | |

2.2 EUT Software and Firmware Version

Table 2: The EUT Software/Firmware Version

| No | Product | Model No. | Software/Firmware Version |
|----|----------|----------------|---------------------------|
| 1 | IP Phone | POLY EDGE E550 | MFG 1.0.16 |

2.3 Description of Available Antennas to the EUT

Table 3: Antenna List

| Ant. No. | Туре | Operation Frequency Range | MAX Gain(dBi) |
|----------|------|---------------------------|---------------|
| 1 | PCB | 5250-5350 | 2.02 |
| 1 | PCB | 5470-5725 | 2.91 |

* The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.



2.4 EUT Maximum Conducted Power

Table 4: The Measured Conducted Output Power

802.11a

| Frequency Band (MHz) | Max. Power | |
|----------------------|-------------------|------------------|
| | Output Power(dBm) | Output Power(mW) |
| 5250~5350 | 12.97 | 19.815 |
| 5470~5725 | 12.89 | 19.454 |

802.11ac (VHT20)

| Fraguanay Pand (MHz) | Max. Power | |
|----------------------|-------------------|------------------|
| Frequency Band (MHz) | Output Power(dBm) | Output Power(mW) |
| 5250~5350 | 12.96 | 19.770 |
| 5470~5725 | 12.96 | 19.770 |

802.11ac (VHT40)

| Frequency Band (MHz) | Max. Power | |
|----------------------|-------------------|------------------|
| | Output Power(dBm) | Output Power(mW) |
| 5250~5350 | 12.96 | 19.770 |
| 5470~5725 | 12.92 | 19.588 |

802.11ac (VHT80)

| Frequency Band (MHz) | Max. Power | |
|----------------------|-------------------|------------------|
| | Output Power(dBm) | Output Power(mW) |
| 5250~5350 | 9.98 | 9.954 |
| 5470~5725 | 9.91 | 9.795 |



2.5 EUT Maximum E.I.R.P. Power

Table 5: The EIRP Output Power List

802.11a

| Frequency Band (MHz) | Max. Power | |
|----------------------|-------------------|------------------|
| | Output Power(dBm) | Output Power(mW) |
| 5250~5350 | 14.99 | 31.550 |
| 5470~5725 | 15.80 | 38.019 |

802.11n (HT20)

| Fraguanay Rand (MHz) | Max. Power | | |
|----------------------|-------------------|------------------|--|
| Frequency Band (MHz) | Output Power(dBm) | Output Power(mW) | |
| 5250~5350 | 14.98 | 31.477 | |
| 5470~5725 | 15.87 | 38.637 | |

802.11n (HT40)

| Frequency Band (MHz) | Max. Power | | |
|----------------------|-------------------|------------------|--|
| | Output Power(dBm) | Output Power(mW) | |
| 5250~5350 | 14.98 | 31.477 | |
| 5470~5725 | 15.83 | 38.282 | |

802.11ac (VHT80)

| Frequency Band (MHz) | Max. Power | | |
|----------------------|----------------------------------|--------|--|
| | Output Power(dBm) Output Power(m | | |
| 5250~5350 | 12.00 | 15.849 | |
| 5470~5725 | 12.82 | 17.660 | |

2.6 Transmit Power Control (TPC)

U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

Maximum EIRP of this device is 38.637 mW which is less than 500mW, therefore it's not require TPC function.

| | Applicable | E.I.R.P | FCC 15.407 (h)(1) |
|-----------------|------------|---------|--|
| | | >500mW | The TPC mechanism is required for system with an E.I.R.P of above 500mW |
| √ <500mW The TF | | <500mW | The TPC mechanism is not required for system with an E.I.R.P of less 500mW |

2.7 Statement of Maunfacturer

Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user. And the device doesn't have Ad Hoc mode on DFS frequency band.

3 U-NII DFS Rule Requirements

3.1 Working Modes and Required Test Items

The manufacturer shall state whether the UUT is capable of operating as a Master and/or a Client. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables 6 and 7 for the applicability of DFS requirements for each of the operational modes.

| | Operational Mode | | | | |
|--|------------------|--------------------------------|-----------------------------|--|--|
| Requirement | Master | Client without radar detection | Client with radar detection | | |
| Non-Occupancy Period | ~ | ✓ note | \checkmark | | |
| DFS Detection Threshold | ✓ | Not required | \checkmark | | |
| Channel Availability Check Time | ~ | Not required | Not required | | |
| U-NII Detection Bandwidth | ✓ | Not required | ✓ | | |
| Note: Per KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02 section (b)(5/6), | | | | | |

Table 6: Applicability of DFS Requirements Prior To Use a Channel

Note: Per KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02 section (b)(5/6), If the client moves with the master, the device is considered compliant if nothing appears in the client nonoccupancy period test. For devices that shut down (rather than moving channels), no beacons should appear. An analyzer plot that contains a single 30-minute sweep on the original channel.

Table 7: Applicability of DFS Requirements during Normal Operation.

| | Operational Mode | | |
|-----------------------------------|---|--------------|--|
| Requirement | Master or Client with radar detection Client without radar d | | |
| DFS Detection Threshold | \checkmark | Not required | |
| Channel Closing Transmission Time | ✓ | \checkmark | |
| Channel Move Time | ✓ | \checkmark | |
| U-NII Detection Bandwidth | ✓ | Not required | |

| Additional requirements for devices with multiple bandwidth modes | Master 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.



Detection Threshold Values

Table 8: 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 D01.

Table 9: DFS Response Requirement Values

| Parameter | Value | |
|-----------------------------------|--|--|
| | | |
| Non-occupancy period | Minimum 30 minutes | |
| Channel Availability Check Time | 60 seconds | |
| Channel Move Time | 10 seconds | |
| | See Note 1. | |
| | 200 milliseconds + an aggregate of 60 | |
| Channel Closing Transmission Time | 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 to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.



Parameters of DFS Test Signals

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.

| Radar Type | Pulse Width (µsec) | PRI (µsec) | | | Minimum Number of Trials | | | |
|--|--|--|-------|------------|--------------------------------|--|--|--|
| 0 | 1 | 1428 | 18 | See Note 1 | See Note 1 | | | |
| 1 | 1 1 Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Roundup $\left\{ \begin{array}{c} 1\\ \hline 360 \end{array} \right\}$ | | | | | | | |
| | | Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, 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 | 60% | 30 | | | | | |
| | Aggregate (Radar Types 1-4) 80% 120 | | | | | | | |
| Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests. | | | | | | | | |

Table 10: Short Pulse Radar Test Waveforms



| Radar TypePulse Width (µsec)Chirp Width (MHz)PRI (µsec)Number Of Pulses Per BurstNumber Of BurstsMinimum Percentage Of Successful DetectionMinimum Number Of Trials550-1005-201000-20001-38-2080%30 | | | | | | | | |
|---|---|--------|-------|-----------|------------|------|-----------------------------|-----------|
| 5 50-100 5-20 1000-2000 1-3 8-20 80% 30 | | Width | Width | | Pulses Per | | Percentage Of Successful | Number Of |
| | 5 | 50-100 | 5-20 | 1000-2000 | 1-3 | 8-20 | 80% | 30 |

Three subsets of trials will be performed with a minimum of ten trials per subset. The subset of trials differ in where the Long Pulse Type 5 Signal is tuned in frequency.

a) the Channel center frequency

b) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the low edge of the UUT Occupied Bandwidth

c) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the high edge of the UUT Occupied Bandwidth

It include 10 trails for every subset, the formula as below,

For subset case 1: the center frequency of the signal generator will remain fixed at the center of the UUT Channel.

For subset case 2: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 2. The center frequency of the signal generator for each trial is calculated by:

FL+(0.4*Chirp Width [in MHz])

For subset case 3: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 3. The center frequency of the signal generator for each trial is calculated by:

FH-(0.4*Chirp Width [in MHz])

Table 12: Frequency Hopping Radar Test Waveform

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



4 Test & Support Equipment List

4.1 Test Instruments

Table 13: Test Instruments List

| Description & Manufacturer | Model No. | Brand | Serial No. | Date Of Calibration | Due Date Of Calibration |
|-------------------------------|-----------------|--------------|-------------------------|------------------------|----------------------------|
| Spectrum analyzer | R&S | ESR | 100039 | Jun. 10, 2021 | Jun. 09, 2022 |
| Signal generator | KEYSIGHT | MXG | MY53052282 | Dec. 21, 2021 | Dec. 20, 2022 |
| RF coaxial cable | HUBER SUHNER | SUCOFLEX 104 | CABLE-DFS-01- 254644 | NA | NA |

Note: Calibrate the RF coaxial cable before each test and use the radiation or conducted method to calibrate the reference FCC KDB 412172 standard.

4.2 Description of Support Units

Table 14: Support Unit Information.

| No. | Product | Brand | Model No. | FCC ID | Gain |
|-----|-----------------------------|---------|-----------|-------------|--|
| 1 | AC2300 Smart WiFi Router | NETGEAR | R7000P | PY316200351 | 5G Ant gain : 1.8dB Maximum EIRP : 25.71dBm |

Note: This device was functioned as a Master Slave device during the DFS test.

| No. | Product | Model No. | Software/Firmware Version |
|-----|-----------------------------|-----------|------------------------------|
| 1. | AC2300 Smart WiFi Router | R7000P | V1.0.0.39_20170111_dfs_debug |

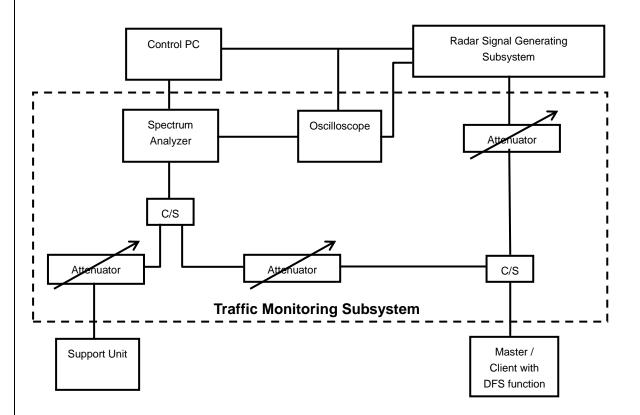


5 Test Procedure

5.1 DFS Measurement System

A complete DFS Measurement System consists of two subsystems: (1) the Radar Signal Generating Subsystem and (2) the Traffic Monitoring Subsystem. The control PC is necessary for generating the Radar waveforms in Table 10, 11 and 12. The traffic monitoring subsystem is specified to the type of unit under test (UUT).

Conducted Setup Configuration of DFS Measurement System

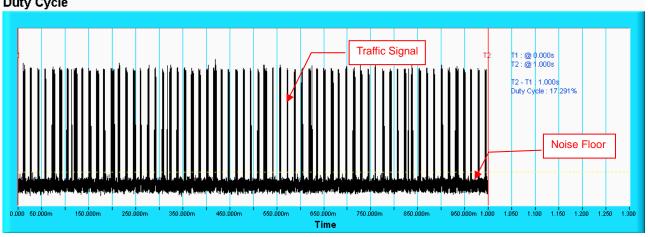


System testing will be performed with channel-loading using means appropriate to the data types that are used by the unlicensed device. The following requirements apply:

| | 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. | | | | | |
| V | c) Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater. | | | | | |
| | d) Unicast or Multicast protocols are preferable but other protocols may be used. The appropriate protocol used must be described in the test procedures. | | | | | |



Wireless Traffic Loading Duty Cycle

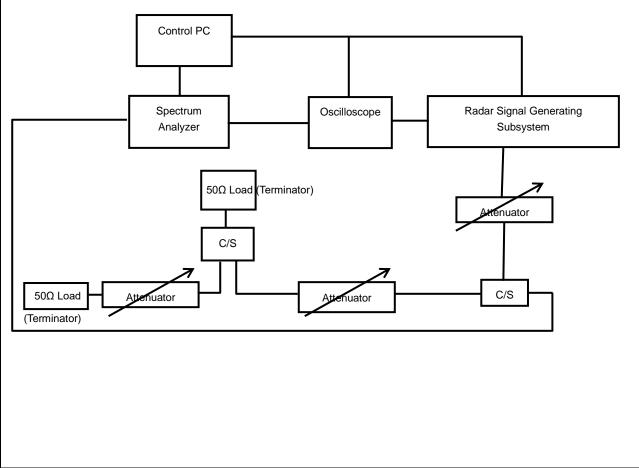


5.2 Calibration of DFS Detection Threshold Level

The measured channel is 5500MHz, 5510MHz and 5530MHz. The radar signal was the same as transmitted channels, and injected into the antenna of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time. The calibrated conducted detection threshold level is set to -64dBm. The tested level is lower than required level hence it provides margin to the limit.

Conducted Setup Configuration of Calibration of DFS Detection Threshold Level

The calibrated conducted detection threshold level is set to -64dBm. The tested level is lower than required level hence it provides margin to the limit.

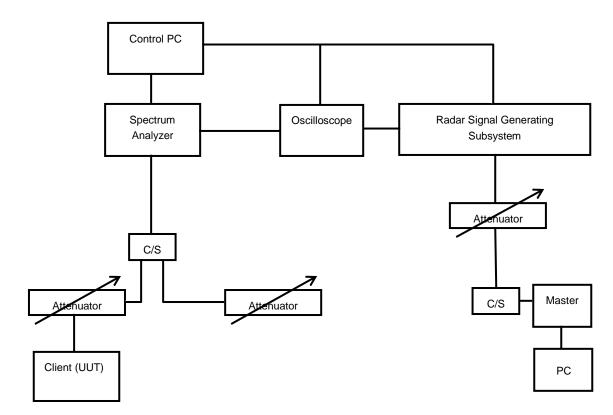


5.3 Deviation from Test Standard

No deviation.

5.4 Conducted Test Setup Configuration

5.4.1 Client without Radar Detection Mode





6 Test Results

6.1 Summary of Test Results

| Clause | Test Parameter | Remarks | Pass/Fail |
|--------|-----------------------------------|----------------|-----------|
| 15.407 | DFS Detection Threshold | Not Applicable | NA |
| 15.407 | Channel Availability Check Time | Not Applicable | NA |
| 15.407 | Channel Move Time | Applicable | Pass |
| 15.407 | Channel Closing Transmission Time | Applicable | Pass |
| 15.407 | Non- Occupancy Period | Applicable | Pass |
| 15.407 | Uniform Spreading | Not Applicable | NA |
| 15.407 | U-NII Detection Bandwidth | Not Applicable | NA |
| 15.407 | Non-associated test | Applicable | Pass |
| 15.407 | Non-Co-Channel test | Applicable | Pass |

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.



6.2 Test Results

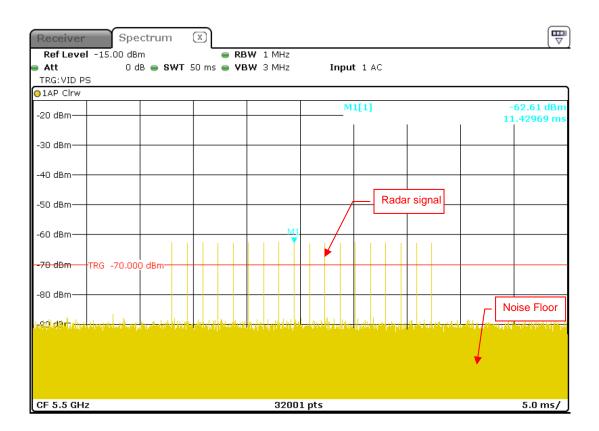
6.2.1 Test Mode: Device Operating In Client without Radar Detection Mode.

Client with injection at the Master. (The radar test signals are injected into the Master Device)

DFS Detection Threshold

For detection threshold level of -64dBm, the required signal strength at AP antenna location is -64 dBm. The tested level is lower than required level for 1dB, hence it provides margin to the limit.

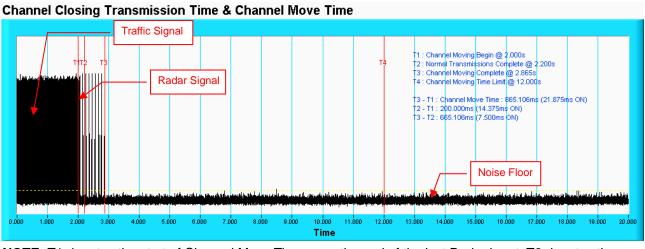
For radar burst signal level at the UUT antenna connector is -64 + 1.8= -62.2 dBm



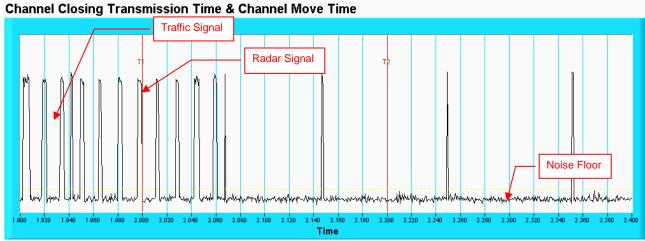
Radar Signal 0

6.2.2 Channel Closing Transmission and Channel Move Time

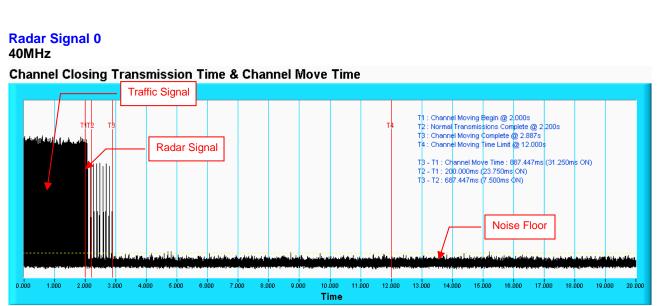
Radar Signal 0 20MHz



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time.T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

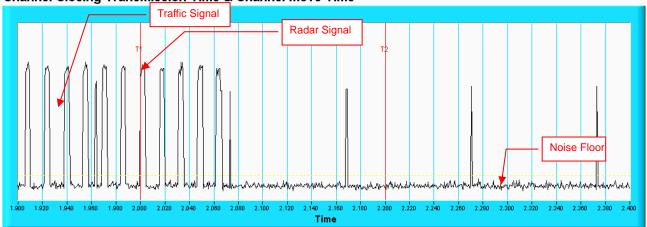


NOTE: An expanded plot for the device vacates the channel in the required 500ms.

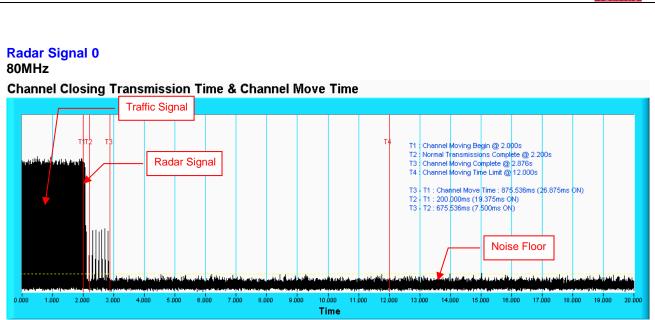


NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time.T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time

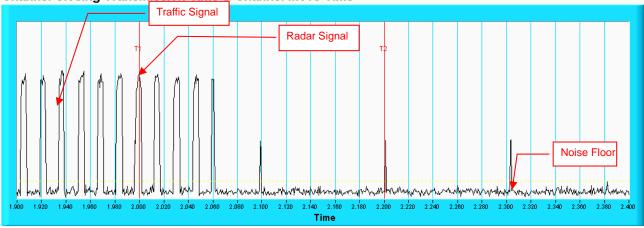


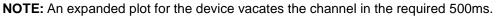
NOTE: An expanded plot for the device vacates the channel in the required 500ms.



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time.T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time



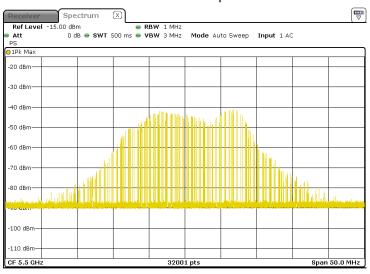


6.2.3 Non-Occupancy Period

Associate test:

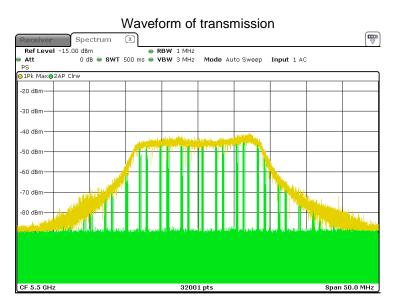
During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.

1) EUT (Client) links with master on 5500MHz.



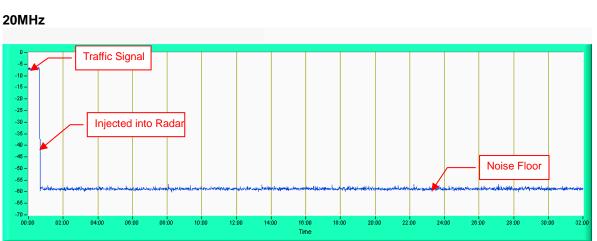
Waveform of EUT links up with Master

2) Client plays specified files via master.



- 3) Radar signal 0 is applied to the Master device and WiFi traffic signal stop immediately. Radar signal applied to the master and traffic stopped as described in section 6.2.2.
- 4) 5500MHz has been monitored in 30 minutes period. In this period, no any transmission occurs.

Plot of 30minutes period

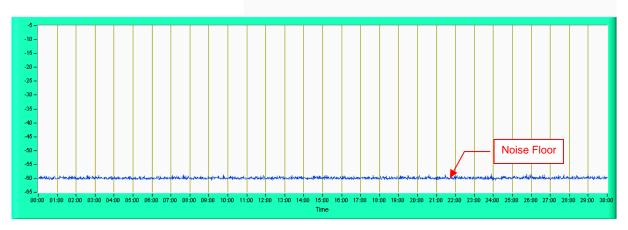


NOTE: Test setup are shown on Test set up photo.pdf

6.2.4 Non-Associated Test

Master was off.

During the 30 minutes observation time, The UUT did not make any transmissions in the DFS band after UUT power up.



6.2.5 Non-Co-Channel Test

The UUT was investigated after radar was detected and confirmed that no co-channel operation with radars.



7. Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

--- END ----