UNIFIED COMPLIANCE LABORATORY

**427 West 12800 South**
**Draper, UT 84020**

# Test Report

## Certification

| | |
|---|---|
| **FCC ID** | SWX-U7PROO |
| **ISED ID** | 6545A-U7PROO |
| **Equipment Under Test** | U7-Pro-Outdoor |
| **Test Report Serial Number** | TR9565_03 |
| **Date of Test(s)** | 23 September; 1-4 October 2024 |
| **Report Issue Date** | 5 December 2024 |

| Test Specification | Applicant |
|---|---|
| 47 CFR FCC Part 15, Subpart E | Ubiquiti Inc.<br>685 Third Avenue<br>New York, NY 10017<br>U.S.A. |

NVLAP TESTING ilac-MRA

**NVLAP LAB CODE 600241-0**

# Certification of Engineering Report

This report has been prepared by Unified Compliance Laboratory (UCL) to document compliance of the device described below with the requirement of Federal Communication Commissions (FCC) Part 15, Subpart E. This report may be reproduced in full. Partial reproduction of this report may only be made with the written consent of the laboratory. The results in this report apply only to the sample tested with the specifications provided by the manufacturer.

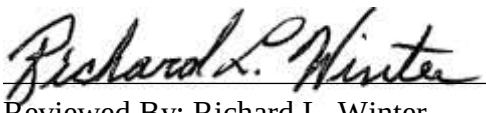
| | |
|---|---|
| **Applicant** | Ubiquiti Inc. |
| **Manufacturer** | Ubiquiti Inc. |
| **Brand Name** | UBIQUITI |
| **Model Number** | U7-Pro-Outdoor |
| **FCC ID** | SWX-U7PROO |
| **ISED ID** | 6545A-U7PROO |

On this 5th day of December 2024, I individually and for Unified Compliance Laboratory certify that the statements made in this engineering report are true, complete and correct to the best of my knowledge and are made in good faith.

Although NVLAP has accredited the Unified Compliance Laboratory testing facilities, this report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the U.S. federal government.

Unified Compliance Laboratory

Written By: Clay Allred



Reviewed By: Richard L. Winter

| Revision History | | |
|---|---|---|
| **Revision** | **Description** | **Date** |
| 01 | Original Report Release | 5 December 2024 |
| 02 | Amended Section 2.2 Regarding Transmit Power Control | 2 January 2025 |
| 03 | Removed Section 5.5.1<br>Amended Section 2.2, 3.3.1, 5.1, 5.3, 5.4, 5.6 | 14 February 2025 |

# Table of Contents

# 1 Client Information

## 1.1 Applicant

| | |
|---|---|
| **Company** | Ubiquiti Inc.<br>685 Third Avenue<br>New York, NY 10017<br>U.S.A. |
| **Contact Name** | Alex Macon |
| **Title** | Compliance |

## 1.2 Manufacturer

| | |
|---|---|
| **Company** | Ubiquiti Inc.<br>685 Third Avenue<br>New York, NY 10017<br>U.S.A. |
| **Contact Name** | Alex Macon |
| **Title** | Compliance |

# 2 Equipment Under Test (EUT)

## 2.1 Identification of EUT

| | |
|---|---|
| **Brand Name** | UBIQUITI |
| **Model Number** | U7-Pro-Outdoor |
| **Serial Number** | 942A6F407A26 |
| **Dimensions (cm)** | 17.0 x 20.8 x 12.18 |

## 2.2 Description of EUT

The U7-Pro-Outdoor is a WiFi7 access point with 2.4 GHz, 5GHz and 6GHz 2x2 radios. It has external SMA antenna connectors supporting 2.4/5GHz and internal antennas supporting 2.4/5/6GHz. The U7-Pro-Outdoor has an aggregate throughput rate of 9.3 Gbps and is powered by a 2.5Gbe PoE 802.3at through a single RJ45 port.

The U7-Pro-Outdoor uses Transmit Power (TP) Control protocol and is included in the power tables of Section 5.4.

For CDD transmissions, directional gain is calculated as follows.

Array Gain = 10 log(NANT/NSS) dB
NANT = number of transmit antennas and
NSS = number of spatial streams. NSS = 1 considered worst case.

For power measurements on IEEE 802.11 devices, Array Gain = 0 dB for NANT ≤ 4;
For PSD measurements when Nss=1: Array Gain = 10 log(NANT/NSS) dB + Antenna Gain (dBi). Or 3.01 dB + 11 dBi = 14.01 dBi.
For PSD measurements when Nss=1: Array Gain = 10 log(NANT/NSS) dB + Antenna Gain (dBi). Or 3.01 dB + 8 dBi = 11.01 dBi.

| Band | Modulation Bandwidth | Frequency (MHz) |
|---|---|---|
| UNII-2A | 20 MHz | 5260, 5265, 5270, 5275, 5280, 5285, 5290, 5295, 5300, 5305, 5310, 5315, 5320 |
| | 40 MHz | 5270, 5275, 5280, 5285, 5290, 5295, 5300, 5305, 5310 |
| | 80 MHz | 5290 |
| | 160 MHz | 5250 |
| UNII-2C | 20 MHz | 5500, 5505, 5510, 5515, 5520, 5525, 5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600*, 5605*, 5610*, 5615*, 5620*, 5625*, 5630*, 5635*, 5640*, 5645*, |

| | | |
|---|---|---|
| | | 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690, 5695, 5700, 5705, 5710, 5715, 5720 |
| | 40 MHz | 5510, 5515, 5520, 5525, 5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600*, 5605*, 5610*, 5615*, 5620*, 5625*, 5630*, 5635*, 5640*, 5645*, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690, 5695, 5700, 5705, 5710 |
| | 80 MHz | 5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600*, 5605*, 5610*, 5615*, 5620*, 5625*, 5630*, 5635*, 5640*, 5645*, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690 |
| | 160 MHz | 5570 |
| * Frequency not applicable in Canada | | |

**Table 1: UNII-2A and UNII-2C Channel Settings**

This report covers the circuitry of the device subject to FCC Part 15, Subpart E. The circuitry of the device subject to FCC Part 15 Subpart B was found to be compliant and is covered under a separate Unified Compliance Laboratory test report.

## 2.3 EUT and Support Equipment

The EUT and support equipment used during the test are listed below.

| Brand Name<br>Model Number<br>Serial Number | Description | Name of Interface Ports / Interface Cables |
|---|---|---|
| BN: UBIQUITI<br>MN: U7-Pro-Outdoor (Note 1)<br>SN: 05BF1C | WiFi Access Point | See Section 2.4 |
| BN: UBIQUITI<br>MN: U-POE-at<br>SN: N/A | PoE Power Adapter | Unshielded Cat 5e cable/1 meters |
| BN: Dell<br>MN: XPS 13<br>SN: N/A | Laptop Personal Computer | Unshielded Cat 5e cable/1 meters |

Notes: (1) EUT
(2) Interface port connected to EUT (See Section 2.4)

The support equipment listed above was not modified in order to achieve compliance with this standard.

## 2.4 Interface Ports on EUT

| Name of Ports | No. of Ports Fitted to EUT | Cable Description/Length |
|---|---|---|
| AC Mains | 1 | 3 conductor power cord/80 cm |
| POE (POE Injector) | 1 | Unshielded Cat 5e cable/8 meters |
| LAN (POE Injector) | 1 | Unshielded Cat 5e cable/1 meters |

## 2.5 Operating Environment

| | |
|---|---|
| **Power Supply** | 120 Volts AC Mains to 48 Volts PoE |
| **AC Mains Frequency** | 60 Hz |
| **Temperature** | 21 - 26 °C |
| **Humidity** | 17 - 29 % |
| **Barometric Pressure** | 1013 mBar |

## 2.6 Operating Modes

The U7-Pro-Outdoor was connected to a personal computer laptop and tested using test software in order to enable to constant duty cycle greater or equal to 98% of the WiFi transceiver. All emission modes of 802.11 b/g/n/ax were investigated. All measurements are reported with the worst-case mode (802.11ax) unless otherwise stated.

## 2.7 EUT Exercise Software

EUT firmware version 1.0 was used to operate the transmitter using a constant transmit mode.

## 2.8 Block Diagram of Test Configuration

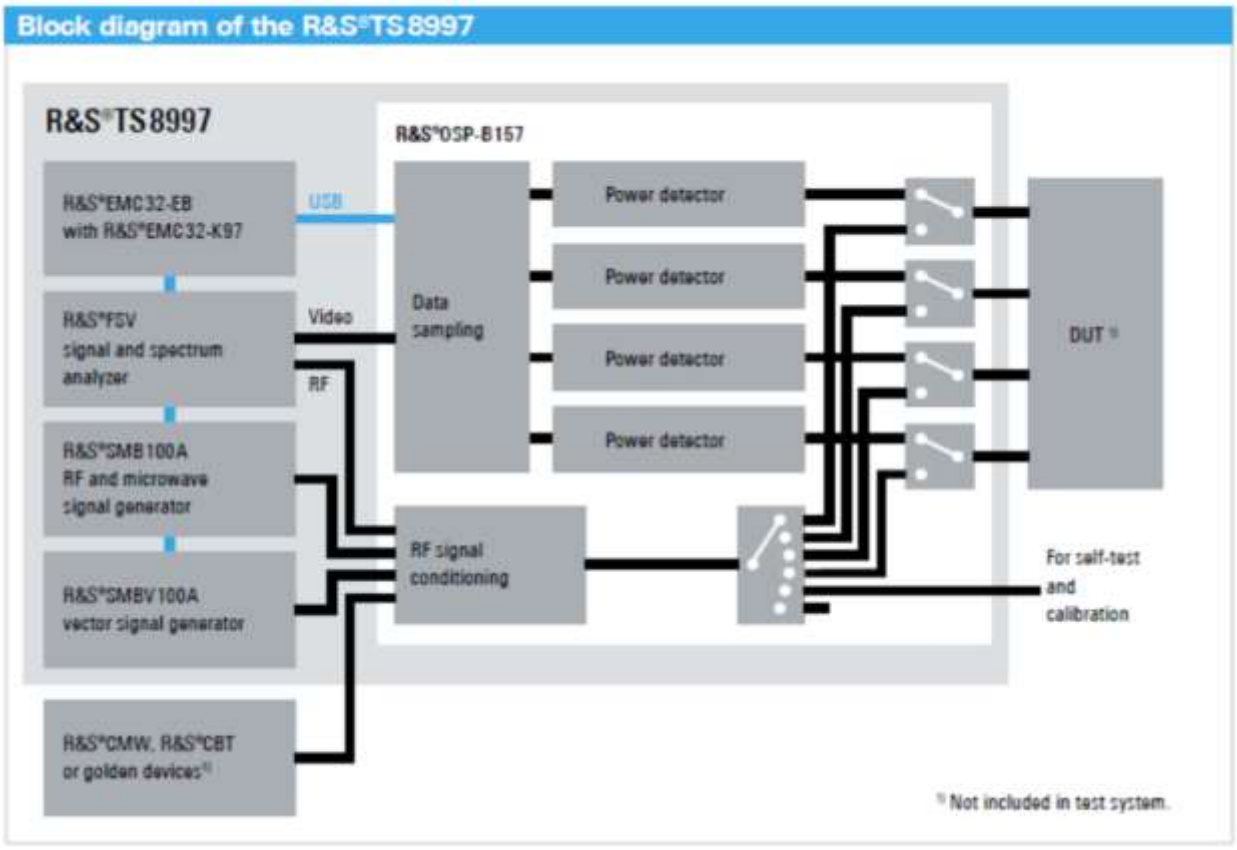



**Diagram 1: Test Configuration Block Diagram**

## 2.9 Modification Incorporated/Special Accessories on EUT

There were no modifications made to the EUT during testing to comply with the specification.

## 2.10 Deviation, Opinions Additional Information or Interpretations from Test Standard

There were no deviations, opinions, additional information or interpretations from the test specification.

# 3 Test Specification, Method and Procedures

## 3.1 Test Specification

| | |
|---|---|
| **Title** | 47 CFR FCC Part 15, Subpart E, Section 15.407<br>Limits and methods of measurement of radio interference characteristics of Unlicensed National Information Infrastructure Devices |
| **Purpose of Test** | The tests were performed to demonstrate initial compliance |

## 3.2 Methods & Procedures

### 3.2.1 47 CFR FCC Part 15 Section 15.407

See test standard for details.

## 3.3 FCC Part 15, Subpart E

### 3.3.1 Summary of Tests

| FCC Section | ISED Section | Environmental Phenomena | Frequency Range (MHZ) | Result |
|---|---|---|---|---|
| 15.203 | N/A | Antenna requirements | Structural Requirement | Compliant |
| 15.207 | RSS-Gen | Conducted Disturbance at Mains Port | 0.15 to 30 | Compliant |
| 15.407(a) | RSS-247 §6.2.2 | Bandwidth Requirement | 5260 to 5720 | Compliant |
| 15.407(a) | RSS-247 §6.2.2, §6.2.3 | Peak Output Power | 5260 to 5720 | Compliant |
| 15.407(b) | RSS-247 §6.2.2, §6.2.3 | Antenna Conducted Spurious Emissions | 0.009 to 40000 | N/A Note[1] |
| 15.209 | RSS-247 §6.2.2, §6.2.3 | Radiated Spurious Emissions | 0.009 to 40000 | Compliant |
| 15.407(a) | RSS-247 §6.2.2, §6.2.3 | Peak Power Spectral Density | 5260 to 5720 | Compliant |
| 15.407(h) | RSS-247 §6.3 | DFS Requirements | 5260 to 5720 | Compliant |
| The testing was performed according to the procedures in ANSI C63.10-2013, KDB 558074 and 47 CFR Part 15. Where applicable, KDB 662911 was followed to sum required measurements.<br>Note [1]: Radiated Spurious was performed per 15.209 with the antenna unterminated. | | | | |

## 3.4 Results

In the configuration tested, the EUT complied with the requirements of the specification.

## 3.5 Test Location

Testing was performed at the Unified Compliance Laboratory located at 427 West 12800 South, Draper, UT 84020. Unified Compliance Laboratory is accredited by National Voluntary Laboratory Accreditation Program (NVLAP); NVLAP Code 600241-0 which is effective until 30 June 2025. This site has also been registered with Innovations, Science and Economic Development (ISED) department as was accepted under Appendix B, Phase 1 procedures of the APEC Tel MRA for Canadian recognition. ISED No.: 25346, effective until 30 June 2025.

Unified Compliance Laboratory has been assigned Designation Number US5037 by the FCC and Conformity Assessment Number US0223 by ISED.

# 4 Test Equipment

## 4.1 Conducted Emissions at Mains Ports

| Type of Equipment | Manufacturer | Model Number | Asset Number | Date of Last Calibration | Due Date of Calibration |
|---|---|---|---|---|---|
| EMI Receiver | AFJ | FFT3010 | UCL-6754 | 1/23/2024 | 2/26/2025 |
| LISN | AFJ | LS16C/10 | UCL-2512 | 7/08/2024 | 7/08/2025 |
| ISN | Teseq | ISN T800 | UCL-2974 | 7/09/2024 | 7/09/2025 |
| LISN | AFJ | LS16C\10 | UCL-6749 | 1/29/2024 | 1/29/2025 |
| AC Power Source | Laplace Instruments | AC1000A | UCL-2857 | N/A | N/A |
| Test Software | AFJ | AFJ FFT3010 | UCL-3107 | N/A | N/A |

**Table 2: List of equipment used for Conducted Emissions Testing at Mains Port**

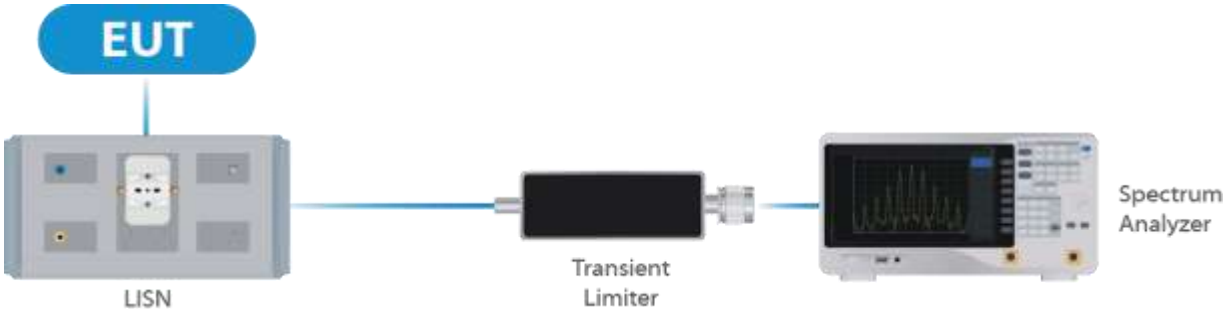



**Figure 1: Conducted Emissions Test**

## 4.2 Direct Connect at the Antenna Port Tests

| Type of Equipment | Manufacturer | Model Number | Asset Number | Date of Last Calibration | Due Date of Calibration |
|---|---|---|---|---|---|
| Spectrum Analyzer | R&S | FSV40 | UCL-2861 | 11/27/2023 | 12/22/2024 |
| Signal Generator | R&S | SMB100A | UCL-2864 | N/A | N/A |
| Vector Signal Generator | R&S | SMBV100A | UCL-2873 | N/A | N/A |
| Switch Extension | R&S | OSP-B157WX | UCL-2867 | 4/12/2024 | 4/19/2025 |
| Switch Extension | R&S | OSP-150W | UCL-2870 | 4/12/2024 | 4/19/2025 |
| Test Software | R&S | EMC32 | UCL-9442 | - | - |

**Table 3: List of equipment used for Direct Connect at the Antenna Port**

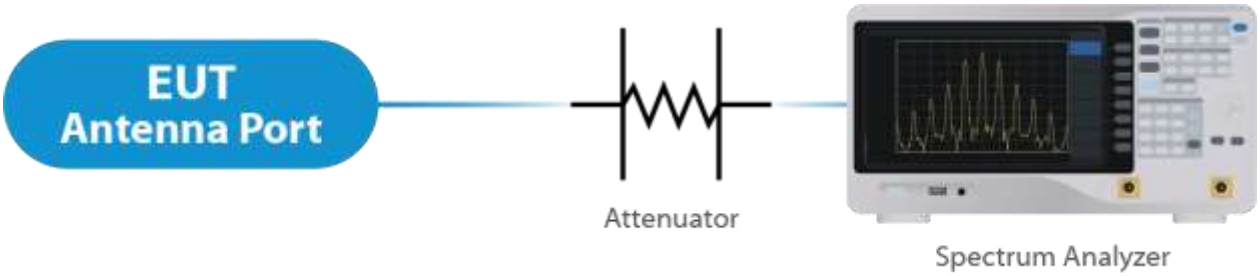



**Figure 2: Direct Connect at the Antenna Port Test**


**Figure 3: Output Power Measurement**

## 4.3 Radiated Emissions

| Type of Equipment | Manufacturer | Model Number | Asset Number | Date of Last Calibration | Due Date of Calibration |
|---|---|---|---|---|---|
| EMI Receiver | Keysight | N9038A | UCL-2778 | 1/25/2024 | 1/29/2025 |
| Pre-Amplifier 9 kHz – 1 GHz | Sonoma Instruments | 310N | UCL-2889 | 1/19/2024 | 1/19/2026 |
| Broadband Antenna | Scwarzbeck | VULB 9163 | UCL-3062 | 2/22/2023 | 2/22/2025 |
| Broadband Antenna | Scwarzbeck | VULB 9163 | UCL-3071 | 1/11/2023 | 1/11/2025 |
| Double Ridge Horn Antenna | Scwarzbeck | BBHA 9120D | UCL-3065 | 3/10/2023 | 3/10/2025 |
| Log Periodic | Scwarzbeck | STLP 9129 | UCL-3068 | 1/27/2023 | 1/27/2025 |
| 15 - 40 GHz Horn Antenna | Scwarzbeck | BBHA 9170 | UCL-2487 | 3/10/2023 | 3/10/2025 |
| 1 – 18 GHz Amplifier | Com-Power | PAM 118A | UCL-3833 | 1/19/2024 | 1/19/2026 |
| Test Software | Nexio | BatEMC | UCL-5253 & UCL-5249 | N/A | N/A |

**Table 4: List of equipment used for Radiated Emissions**

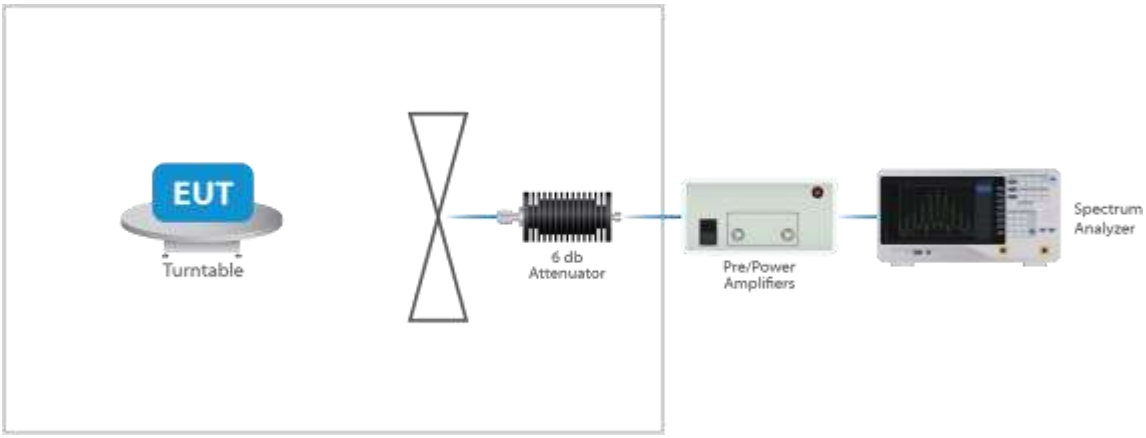



**Figure 4: Radiated Emissions Test**

## 4.4 DFS Testing

| Type of Equipment | Manufacturer | Model Number | Asset Number | Date of Last Calibration | Due Date of Calibration |
|---|---|---|---|---|---|
| Vector Signal Generator | R&S | SMBV100A | UCL-2873 | N/A | N/A |
| Spectrum Analyzer | Keysight | N9010B | UCL-7069 | 5/3/2024 | 5/3/2025 |

### 4.4.1 Master Test Set Up

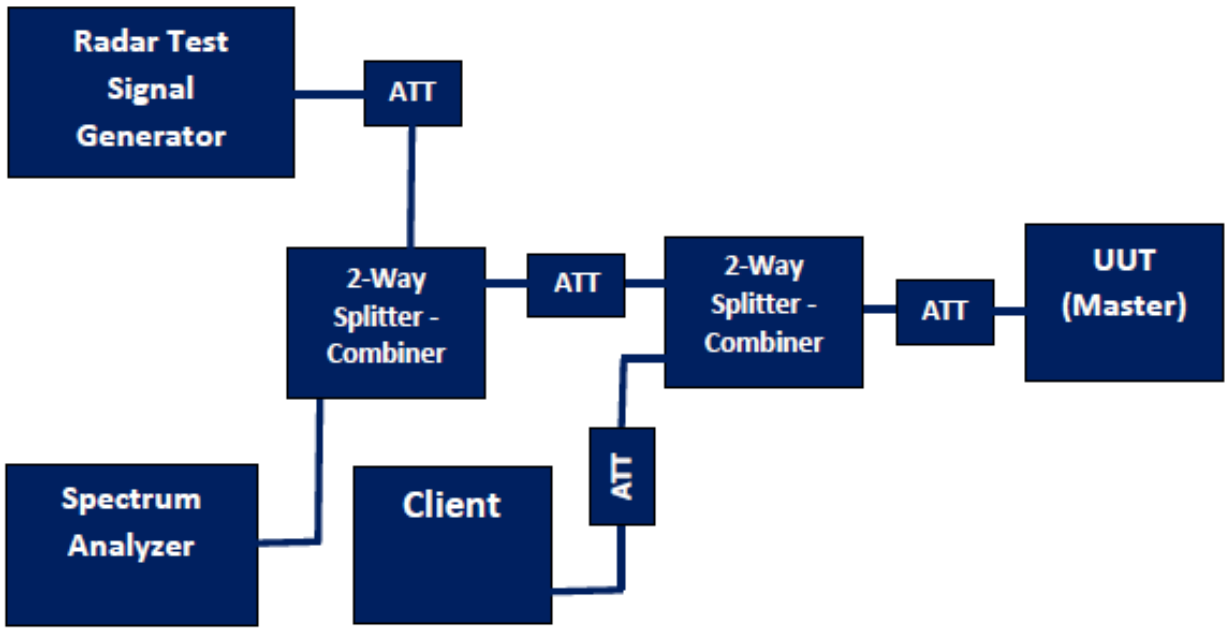


Figure 5: DFS Test Set Up - Master

### 4.4.2 Client Test Set Up

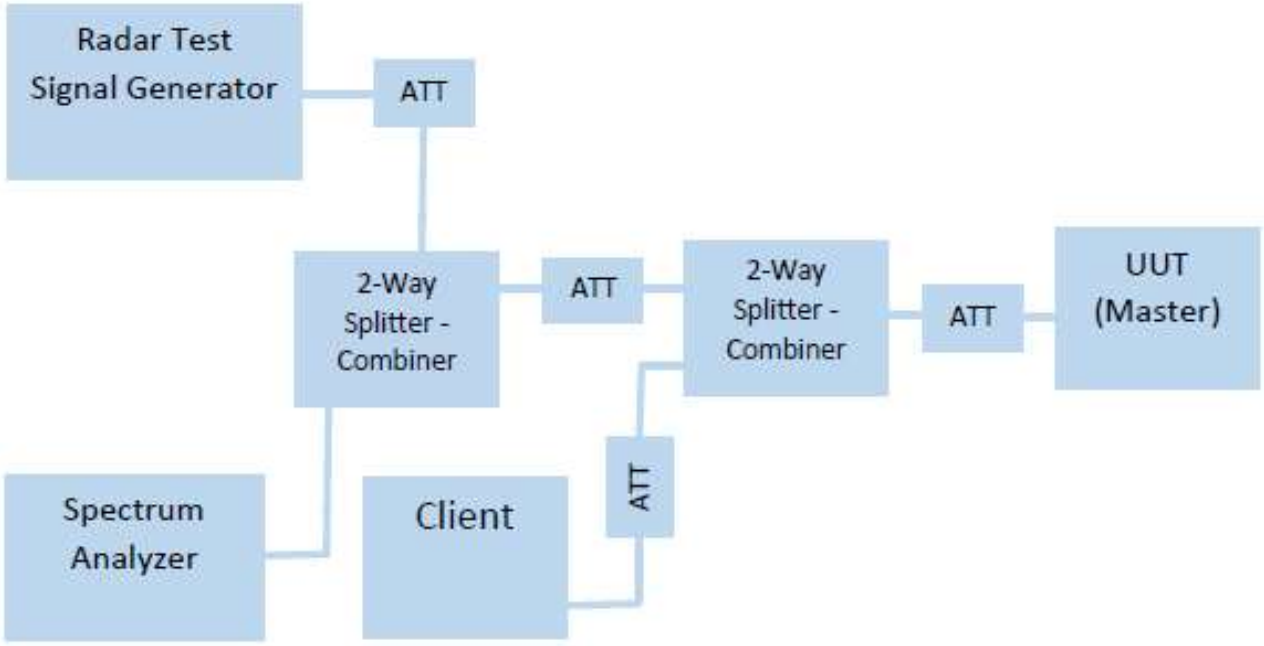



Figure 6: DFS Test Set Up – Client

### 4.4.3 Master Radiated Test Set Up

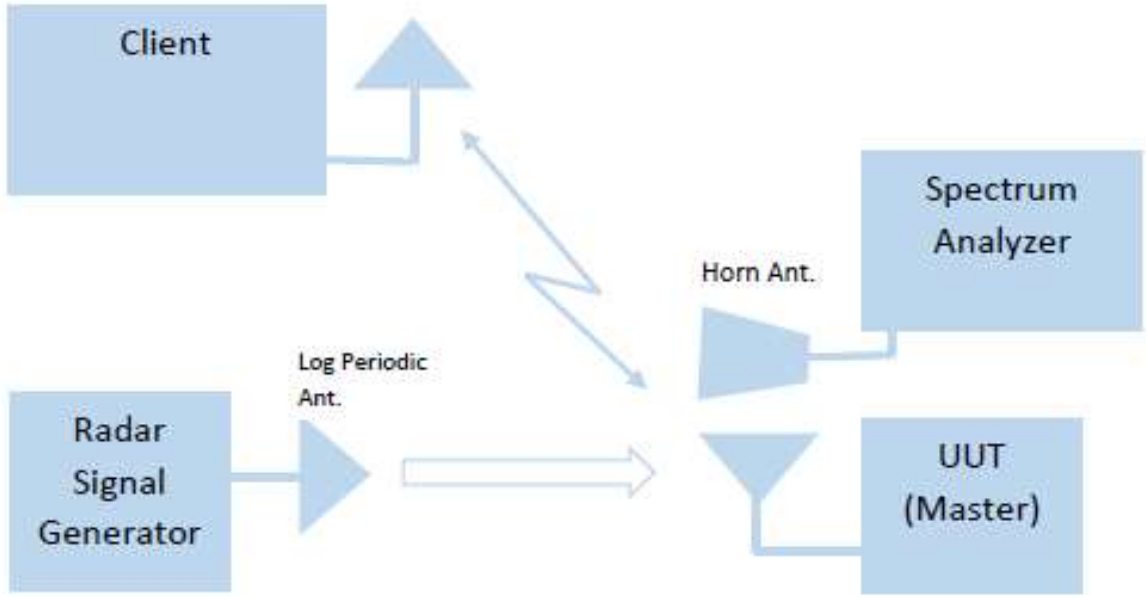



Figure 7: DFS Test Set Up – Master Injection at the Master

## 4.5 Equipment Calibration

All applicable equipment is calibrated using either an independent calibration laboratory or Unified Compliance Laboratory personnel at intervals defined in ANSI C63.4:2014 following outlined calibration procedures. All measurement instrumentation is traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and is available for examination upon request.

## 4.6 Measurement Uncertainty

| Test | Uncertainty (± dB) | Confidence (%) |
|---|---|---|
| Conducted Emissions | 1.44 | 95 |
| Radiated Emissions (9 kHz to 30 MHz) | 2.50 | 95 |
| Radiated Emissions (30 MHz to 1 GHz) | 4.38 | 95 |
| Radiated Emissions (1 GHz to 18 GHz) | 4.37 | 95 |
| Radiated Emissions (18 GHz to 40 GHz) | 3.93 | 95 |
| **Direct Connect Tests** | **K Factor** | **Value** |
| Emissions Bandwidth | 2 | 2.0% |
| Output Power | 2 | 1.0 dB |
| Peak Power Spectral Density | 2 | 1.3 dB |
| Band Edge | 2 | 0.8 dB |
| Transmitter Spurious Emissions | 2 | 1.8 dB |

# 5 Test Results

## 5.1 §15.203 Antenna Requirements

The EUT uses an internal and an external antenna. Per the manufacturer, the maximum gain of the internal antenna per chain is 11 dBi and the maximum gain for the external antenna is 7 dBi*. This is an 802.11 device and utilizes CDD as described in KDB 662911 D01. The internal antenna is not user replaceable; the external antenna is removable.

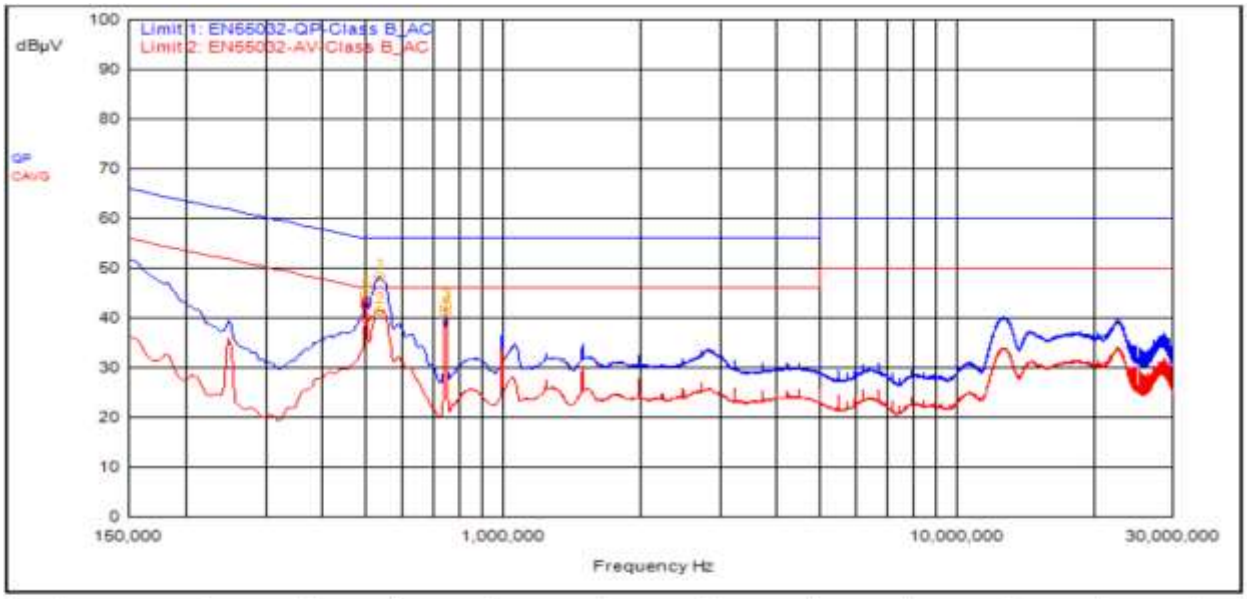
*The actual Antenna Gain is 7dBi, however for worst case considerations 8dBi was used for testing/calculation purposes.

### Results

The EUT complied with the specification

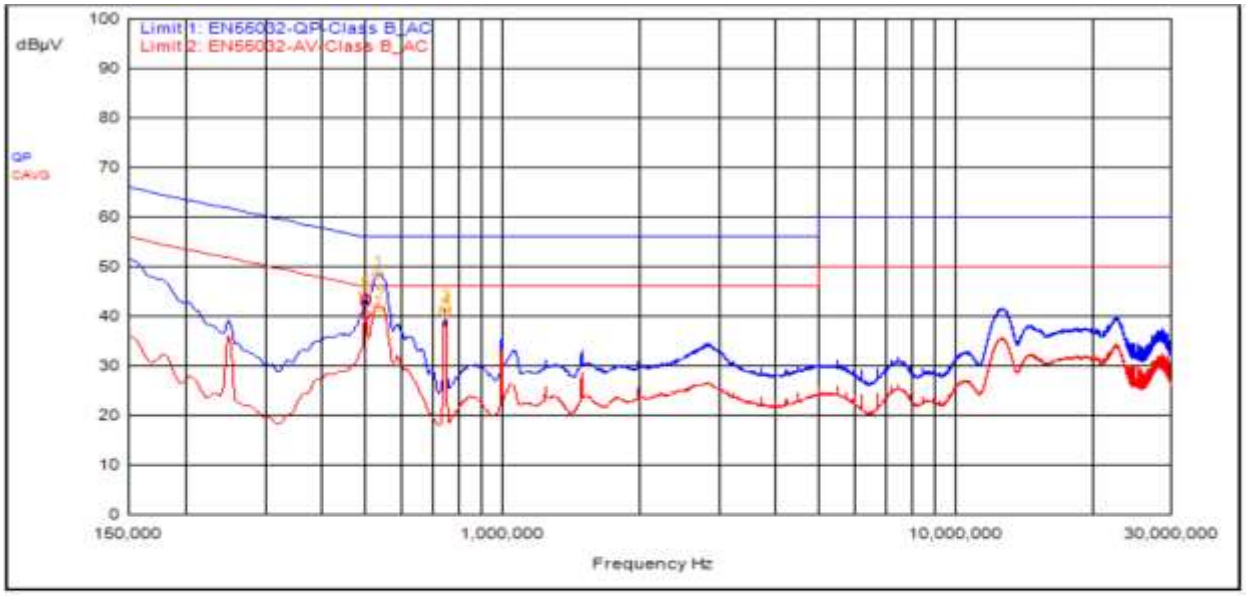
## 5.2 Conducted Emissions at Mains Ports Data

### 5.2.1 Line




| ID | Frequency | Probe | Cable | Atten. | Detector | Meter Read | Meas Level | Limit 1 | Limit 1 Dist. | Limit 2 | Limit 2 Dist. | P/F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MU | MHz | dB | dB | dB | Type | dBµV | dBµV | dBµV | dB | dBµV | dB | P/F |
| 1 | 534,000kHz | 9.49 | | | QPeak | 38.71 | 48.20 | 56.00 | -7.80 | | | |
| 5 | 498,000kHz | 9.49 | | | QPeak | 34.90 | 44.39 | 56.03 | -11.64 | | | |
| 3 | 750,000kHz | 9.51 | | | QPeak | 32.59 | 42.10 | 56.00 | -13.90 | | | |
| 2 | 537,000kHz | 9.49 | | | C_AVG | 31.89 | 41.38 | | | 46.00 | -4.62 | |
| 4 | 747,000kHz | 9.51 | | | C_AVG | 31.66 | 41.17 | | | 46.00 | -4.83 | |
| 6 | 498,000kHz | 9.49 | | | C_AVG | 30.59 | 40.08 | | | 46.03 | -5.96 | |

### 5.2.2 Neutral




| ID | Frequency | Probe | Cable | Atten. | Detector | Meter Read | Meas Level | Limit 1 | Limit 1 Dist. | Limit 2 | Limit 2 Dist. | P/F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MU | MHz | dB | dB | dB | Type | dBµV | dBµV | dBµV | dB | dBµV | dB | P/F |
| 1 | 531,000kHz | 9.62 | | | QPeak | 38.97 | 48.59 | 56.00 | -7.41 | | | |
| 5 | 498,000kHz | 9.64 | | | QPeak | 34.93 | 44.57 | 56.03 | -11.46 | | | |
| 3 | 750,000kHz | 9.52 | | | QPeak | 32.25 | 41.77 | 56.00 | -14.23 | | | |
| 2 | 534,000kHz | 9.62 | | | C_AVG | 32.45 | 42.07 | | | 46.00 | -3.93 | |
| 4 | 747,000kHz | 9.52 | | | C_AVG | 31.36 | 40.88 | | | 46.00 | -5.12 | |
| 6 | 498,000kHz | 9.64 | | | C_AVG | 30.75 | 40.39 | | | 46.03 | -5.64 | |

**Result**

The EUT complied with the specification limit.

## 5.3 §15.407(a) 26 dB Emissions Bandwidth

All chains were measured under the guidance of KDB 789033 Section II.C. and KDB 662911 D01. Please see associated annex for details on instrument settings.

### 5.3.1 UNII-2A – Internal Antenna

| Bandwidth (MHz) | Frequency (MHz) | 99% Bandwidth (MHz) | Emissions 26 dB Bandwidth (MHz) |
|---|---|---|---|
| OFDM 20 | 5260 | 16.5 | 20.0 |
| OFDM 20 | 5280 | 16.6 | 20.5 |
| OFDM 20 | 5320 | 16.5 | 20.4 |
| HE 20 | 5260 | 19.25 | 21.7 |
| HE 20 | 5280 | 19.25 | 23.1 |
| HE 20 | 5320 | 19.5 | 22.9 |
| HE 40 | 5270 | 38.5 | 43.5 |
| HE 40 | 5310 | 38.5 | 43.2 |
| HE 80 | 5290 | 79.0 | 88.5 |
| HE 160 | 5250 | 157.0 | 172.0 |

### 5.3.2 UNII-2A – External Antenna

| Bandwidth (MHz) | Frequency (MHz) | 99% Bandwidth (MHz) | Emissions 26 dB Bandwidth (MHz) |
|---|---|---|---|
| OFDM 20 | 5260 | 16.5 | 19.9 |
| OFDM 20 | 5280 | 16.6 | 20.1 |
| OFDM 20 | 5320 | 16.6 | 19.9 |
| HE 20 | 5260 | 19.25 | 22.0 |
| HE 20 | 5280 | 19.25 | 22.6 |
| HE 20 | 5320 | 19.5 | 22.1 |
| HE 40 | 5270 | 39.0 | 42.15 |
| HE 40 | 5310 | 38.5 | 42.9 |
| HE 80 | 5290 | 79.0 | 89.0 |
| HE 160 | 5250 | 158.0 | 175.0 |

### 5.3.3 UNII-2C – Internal Antenna

| Bandwidth | Frequency (MHz) | 99% Bandwidth (MHz) | Emissions 26 dB Bandwidth (MHz) |
|---|---|---|---|
| OFDM 20 | 5500 | 16.6 | 20.1 |
| OFDM 20 | 5600 | 16.6 | 20.0 |
| OFDM 20 | 5720 | 16.6 | 20.1 |
| HE 20 | 5500 | 19.2 | 22.8 |
| HE 20 | 5600 | 19.2 | 22.0 |
| HE 20 | 5720 | 19.2 | 22.3 |
| HE 40 | 5510 | 38.5 | 42.6 |
| HE 40 | 5590 | 38.5 | 42.6 |
| HE 40 | 5710 | 39.5 | 44.55 |
| HE 80 | 5530 | 78.0 | 86.5 |
| HE 80 | 5610 | 79.0 | 86.0 |
| HE 80 | 5690 | 78.0 | 88.0 |
| HE 160 | 5570 | 159.0 | 174.0 |

### 5.3.4 UNII-2C – External Antenna

| Bandwidth | Frequency (MHz) | 99% Bandwidth (MHz) | Emissions 26 dB Bandwidth (MHz) |
|---|---|---|---|
| OFDM 20 | 5500 | 16.5 | 20.5 |
| OFDM 20 | 5600 | 16.6 | 20.3 |
| OFDM 20 | 5720 | 16.5 | 20.3 |
| HE20 | 5500 | 19.1 | 22.9 |
| HE20 | 5600 | 19.2 | 22.6 |
| HE20 | 5720 | 19.1 | 22.3 |
| HE40 | 5510 | 38.5 | 44.25 |
| HE40 | 5590 | 38.5 | 43.05 |
| HE40 | 5710 | 38.5 | 43.35 |
| HE80 | 5530 | 79.0 | 87.0 |
| HE80 | 5610 | 78.0 | 89.0 |
| HE80 | 5690 | 78.0 | 89.5 |
| HE160 | 5570 | 157.0 | 174.0 |

**Result**

All chains were tested and the highest bandwidth per chain is reported above. Please see Annex for all bandwidth measurements.

## 5.4 §15.407(a) Maximum Average Output Power

All chains were measured and summed under the guidance of KDB 789033 Section II. E.2. and KDB 662911 D01. Please see associated annex for details on instrument settings.

The maximum average RF conducted output power measured for this device was 21.96 dBm or 157.04 mW. The limit is 24 dBm or 250 mW when using antennas with 6 dBi or less gain.
Internal Antenna Conducted RF power limit = 19dB. (15.407 limit - Antenna gain >6 dBi, or 24dBm – 5dB).
External Antenna Conducted RF Limit = 22dB. (15.407 limit - Antenna gain >6 dBi, or 24dBm – 2dB).

See Section 2.2 of this report for the directional gain calculation.

### 5.4.1 UNII-2A

**Internal Antenna NSS > 1**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Conducted Output Power* | EIRP |
|---|---|---|---|---|---|
| OFDM 20 | 5260 | Mcs0_Nss4 | 16 | 17.93 | 28.93 |
| OFDM 20 | 5280 | Mcs0_Nss4 | 16 | 17.63 | 28.63 |
| OFDM 20 | 5320 | Mcs0_Nss4 | 16 | 17.39 | 28.39 |
| HE20 | 5260 | Mcs0_Nss4 | 17 | 18.48 | 29.48 |
| HE20 | 5280 | Mcs0_Nss4 | 17 | 18.38 | 29.38 |
| HE20 | 5320 | Mcs0_Nss4 | 17 | 18.29 | 29.29 |
| HE40 | 5270 | Mcs0_Nss4 | 17 | 18.44 | 29.44 |
| HE40 | 5310 | Mcs0_Nss4 | 17 | 18.52 | 29.52 |
| HE80 | 5290 | Mcs0_Nss4 | 17 | 18.07 | 29.07 |
| HE160 | 5250 | Mcs0_Nss4 | 17 | 18.11 | 29.11 |

**Internal Antenna NSS = 1**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Conducted Output Power* | EIRP |
|---|---|---|---|---|---|
| OFDM 20 | 5260 | Mcs0_Nss1 | 13 | 14.93 | 25.93 |
| OFDM 20 | 5280 | Mcs0_Nss1 | 13 | 14.63 | 25.63 |
| OFDM 20 | 5320 | Mcs0_Nss1 | 13 | 14.39 | 25.39 |
| HE20 | 5260 | Mcs0_Nss1 | 14 | 15.48 | 26.48 |
| HE20 | 5280 | Mcs0_Nss1 | 14 | 15.38 | 26.38 |
| HE20 | 5320 | Mcs0_Nss1 | 14 | 15.29 | 26.29 |
| HE40 | 5270 | Mcs0_Nss1 | 17 | 18.44 | 29.44 |
| HE40 | 5310 | Mcs0_Nss1 | 17 | 18.52 | 29.52 |
| HE80 | 5290 | Mcs0_Nss1 | 17 | 18.07 | 29.07 |
| HE160 | 5250 | Mcs0_Nss1 | 17 | 18.11 | 29.11 |

**External Antenna NSS > 1**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Conducted Output Power* | EIRP |
|---|---|---|---|---|---|
| OFDM 20 | 5260 | Mcs0_Nss4 | 20 | 20.69 | 28.69 |
| OFDM 20 | 5280 | Mcs0_Nss4 | 20 | 20.69 | 28.69 |
| OFDM 20 | 5320 | Mcs0_Nss4 | 20 | 20.61 | 28.61 |
| HE20 | 5260 | Mcs0_Nss4 | 21 | 21.64 | 29.64 |
| HE20 | 5280 | Mcs0_Nss4 | 21 | 21.30 | 29.30 |
| HE20 | 5320 | Mcs0_Nss4 | 21 | 21.13 | 29.13 |
| HE40 | 5270 | Mcs0_Nss4 | 21 | 21.48 | 29.48 |
| HE40 | 5310 | Mcs0_Nss4 | 21 | 21.22 | 29.22 |
| HE80 | 5290 | Mcs0_Nss4 | 21 | 21.02 | 29.02 |
| HE160 | 5250 | Mcs0_Nss4 | 21 | 21.46 | 29.46 |

**External Antenna NSS = 1**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Conducted Output Power* | EIRP |
|---|---|---|---|---|---|
| OFDM 20 | 5260 | Mcs0_Nss1 | 17 | 17.69 | 25.69 |
| OFDM 20 | 5280 | Mcs0_Nss1 | 17 | 17.69 | 25.69 |
| OFDM 20 | 5320 | Mcs0_Nss1 | 17 | 17.61 | 25.61 |
| HE20 | 5260 | Mcs0_Nss1 | 18 | 18.64 | 26.64 |
| HE20 | 5280 | Mcs0_Nss1 | 18 | 18.30 | 26.30 |
| HE20 | 5320 | Mcs0_Nss1 | 19 | 19.13 | 27.13 |
| HE40 | 5270 | Mcs0_Nss1 | 21 | 21.48 | 29.48 |
| HE40 | 5310 | Mcs0_Nss1 | 21 | 21.22 | 29.22 |
| HE80 | 5290 | Mcs0_Nss1 | 21 | 21.02 | 29.02 |
| HE160 | 5250 | Mcs0_Nss1 | 21 | 21.46 | 29.46 |

### 5.4.2 UNII-2C

**Internal Antenna NSS > 1**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Conducted Output Power* | EIRP |
|---|---|---|---|---|---|
| OFDM 20 | 5500 | Mcs0_Nss4 | 16 | 17.99 | 28.99 |
| OFDM 20 | 5600 | Mcs0_Nss4 | 15 | 16.96 | 27.96 |
| OFDM 20 | 5720 | Mcs0_Nss4 | 16 | 17.54 | 28.54 |
| HE20 | 5500 | Mcs0_Nss4 | 16 | 17.82 | 28.82 |
| HE20 | 5600 | Mcs0_Nss4 | 16 | 17.67 | 28.67 |
| HE20 | 5720 | Mcs0_Nss4 | 17 | 18.12 | 29.12 |
| HE40 | 5510 | Mcs0_Nss4 | 16 | 18.12 | 29.12 |
| HE40 | 5590 | Mcs0_Nss4 | 17 | 18.73 | 29.73 |
| HE40 | 5710 | Mcs0_Nss4 | 17 | 18.32 | 29.32 |
| HE80 | 5530 | Mcs0_Nss4 | 17 | 18.69 | 29.69 |
| HE80 | 5610 | Mcs0_Nss4 | 17 | 18.55 | 29.55 |
| HE80 | 5690 | Mcs0_Nss4 | 17 | 18.31 | 29.31 |
| HE160 | 5570 | Mcs0_Nss4 | 17 | 18.71 | 29.71 |

**Internal Antenna NSS = 1**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Conducted Output Power* | EIRP |
|---|---|---|---|---|---|
| OFDM 20 | 5500 | Mcs0_Nss1 | 13 | 14.99 | 25.99 |
| OFDM 20 | 5600 | Mcs0_Nss1 | 12 | 13.96 | 24.96 |
| OFDM 20 | 5720 | Mcs0_Nss1 | 13 | 14.54 | 25.54 |
| HE20 | 5500 | Mcs0_Nss1 | 13 | 14.82 | 25.82 |
| HE20 | 5600 | Mcs0_Nss1 | 13 | 14.67 | 25.67 |
| HE20 | 5720 | Mcs0_Nss1 | 14 | 15.12 | 26.12 |
| HE40 | 5510 | Mcs0_Nss1 | 16 | 18.12 | 29.12 |
| HE40 | 5590 | Mcs0_Nss1 | 17 | 18.73 | 29.73 |
| HE40 | 5710 | Mcs0_Nss1 | 17 | 18.32 | 29.32 |
| HE80 | 5530 | Mcs0_Nss1 | 17 | 18.69 | 29.69 |
| HE80 | 5610 | Mcs0_Nss1 | 17 | 18.55 | 29.55 |
| HE80 | 5690 | Mcs0_Nss1 | 17 | 18.31 | 29.31 |
| HE160 | 5570 | Mcs0_Nss1 | 17 | 18.71 | 29.71 |

**External Antenna NSS > 1**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Conducted Output Power* | EIRP |
|---|---|---|---|---|---|
| OFDM 20 | 5500 | Mcs0_Nss4 | 19 | 20.53 | 28.53 |
| OFDM 20 | 5600 | Mcs0_Nss4 | 20 | 20.58 | 28.58 |
| OFDM 20 | 5720 | Mcs0_Nss4 | 19 | 20.54 | 28.54 |
| HE20 | 5500 | Mcs0_Nss4 | 20 | 21.29 | 29.29 |
| HE20 | 5600 | Mcs0_Nss4 | 20 | 20.39 | 28.39 |
| HE20 | 5720 | Mcs0_Nss4 | 20 | 21.38 | 29.38 |
| HE40 | 5510 | Mcs0_Nss4 | 21 | 21.64 | 29.64 |
| HE40 | 5590 | Mcs0_Nss4 | 21 | 21.82 | 29.82 |
| HE40 | 5710 | Mcs0_Nss4 | 21 | 21.54 | 29.54 |
| HE80 | 5530 | Mcs0_Nss4 | 21 | 21.59 | 29.59 |
| HE80 | 5610 | Mcs0_Nss4 | 20 | 21.26 | 29.26 |
| HE80 | 5690 | Mcs0_Nss4 | 20 | 21.15 | 29.15 |
| HE160 | 5570 | Mcs0_Nss4 | 21 | 21.55 | 29.55 |

**External Antenna NSS = 1**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Conducted Output Power* | EIRP |
|---|---|---|---|---|---|
| OFDM 20 | 5500 | Mcs0_Nss1 | 16 | 17.53 | 25.53 |
| OFDM 20 | 5600 | Mcs0_Nss1 | 17 | 17.58 | 25.58 |
| OFDM 20 | 5720 | Mcs0_Nss1 | 16 | 17.54 | 25.54 |
| HE20 | 5500 | Mcs0_Nss1 | 17 | 18.29 | 26.29 |
| HE20 | 5600 | Mcs0_Nss1 | 17 | 17.39 | 25.39 |
| HE20 | 5720 | Mcs0_Nss1 | 17 | 18.38 | 26.38 |
| HE40 | 5510 | Mcs0_Nss1 | 21 | 21.64 | 29.64 |
| HE40 | 5590 | Mcs0_Nss1 | 20 | 20.82 | 28.82 |
| HE40 | 5710 | Mcs0_Nss1 | 21 | 21.54 | 29.54 |
| HE80 | 5530 | Mcs0_Nss1 | 21 | 21.59 | 29.59 |
| HE80 | 5610 | Mcs0_Nss1 | 20 | 21.26 | 29.26 |
| HE80 | 5690 | Mcs0_Nss1 | 20 | 21.15 | 29.15 |
| HE160 | 5570 | Mcs0_Nss1 | 21 | 21.55 | 29.55 |

## Result

In the configuration tested, the maximum average RF output power was less than 0.250 watt; therefore, the EUT complied with the requirements of the specification.

* Gated EIRP shown in the Annex is the conducted measurement.

## 5.5 §15.209 Spurious Emissions

### 5.5.1 Radiated Spurious Emissions in the Restricted Bands of § 15.205

The frequency range from the lowest frequency generated or used in the device to the tenth harmonic of the highest fundamental emissions was investigated to measure any radiated emissions in the restricted bands. For frequencies above 18.0 GHz. The emissions in the restricted bans must meet the limits specified in § 15.209. Conducted measurement results are included in the Annex. Radiated data with the EUT transmitting into a load is included below. All emissions between the required frequencies were investigated, the following plots represent the worst case. The “fail” is the transmitted signal exceeding the spurious limit.

Correction Factor = Antenna Factor (dBi) + Cable Loss (dB) - Pre-Amplifier Gain (dB), and is added to the Receiver reading.

### 5.5.2 UNII-2A

**Internal Antenna**

| Frequency | Det. | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol. | RBW (Hz) | Correction (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 10.6403758 GHz | PK | 54.153 | 74 | -19.847 | 284 | 2.867 | Horizontal | 1 MHz | 10.005 |
| 10.6404406 GHz | PK | 60.425 | 74 | -13.575 | 265 | 1.5 | Horizontal | 1 MHz | 10.005 |
| 15.9622163 GHz | PK | 63.623 | 74 | -10.377 | 295 | 2.041 | Horizontal | 1 MHz | 10.61 |
| 15.9624476 GHz | PK | 60.454 | 74 | -13.546 | 324 | 2.292 | Horizontal | 1 MHz | 10.61 |
| 10.6403758 GHz | AV | 41.273 | 54 | -12.727 | 284 | 2.867 | Horizontal | 1 MHz | 10.005 |
| 10.6404406 GHz | AV | 47.085 | 54 | -6.915 | 265 | 1.5 | Horizontal | 1 MHz | 10.005 |
| 15.9622163 GHz | AV | 50.21 | 54 | -3.79 | 295 | 2.041 | Horizontal | 1 MHz | 10.61 |
| 15.9624476 GHz | AV | 46.501 | 54 | -7.499 | 324 | 2.292 | Horizontal | 1 MHz | 10.61 |
| 10.5172109 GHz | PK | 60.643 | 74 | -13.357 | 265 | 1.714 | Vertical | 1 MHz | 9.765 |
| 10.5242323 GHz | PK | 64.968 | 74 | -9.032 | 291 | 3.444 | Vertical | 1 MHz | 9.787 |
| 14.2591624 GHz | PK | 58.267 | 74 | -15.733 | 342 | 3.728 | Vertical | 1 MHz | 14.069 |
| 14.6620675 GHz | PK | 58.171 | 74 | -15.829 | 30 | 3.728 | Vertical | 1 MHz | 14.775 |
| 15.7780608 GHz | PK | 55.757 | 74 | -18.243 | 334 | 2.036 | Vertical | 1 MHz | 10.957 |
| 15.7810123 GHz | PK | 55.053 | 74 | -18.947 | 277 | 2.292 | Vertical | 1 MHz | 10.972 |
| 16.9875074 GHz | PK | 57.58 | 74 | -16.42 | 157 | 1.714 | Vertical | 1 MHz | 15.137 |
| 10.5172109 GHz | AV | 46.596 | 54 | -7.404 | 265 | 1.714 | Vertical | 1 MHz | 9.765 |
| 10.5242323 GHz | AV | 51.433 | 54 | -2.567 | 291 | 3.444 | Vertical | 1 MHz | 9.787 |
| 14.2591624 GHz | AV | 44.469 | 54 | -9.531 | 342 | 3.728 | Vertical | 1 MHz | 14.069 |
| 14.6620675 GHz | AV | 45.073 | 54 | -8.927 | 30 | 3.728 | Vertical | 1 MHz | 14.775 |
| 15.7780608 GHz | AV | 42.259 | 54 | -11.741 | 334 | 2.036 | Vertical | 1 MHz | 10.957 |
| 15.7810123 GHz | AV | 41.845 | 54 | -12.155 | 277 | 2.292 | Vertical | 1 MHz | 10.972 |
| 16.9875074 GHz | AV | 44.321 | 54 | -9.679 | 157 | 1.714 | Vertical | 1 MHz | 15.137 |
| 10.5218731 GHz | PK | 60.978 | 74 | -13.022 | 244 | 3.732 | Horizontal | 1 MHz | 9.779 |
| 10.5232856 GHz | PK | 60.744 | 74 | -13.256 | 244 | 3.732 | Horizontal | 1 MHz | 9.784 |
| 15.7759486 GHz | PK | 54.736 | 74 | -19.264 | 44 | 2.04 | Horizontal | 1 MHz | 10.946 |
| 15.7844498 GHz | PK | 55.501 | 74 | -18.499 | 294 | 2.871 | Horizontal | 1 MHz | 10.99 |
| 10.5218731 GHz | AV | 47.111 | 54 | -6.889 | 244 | 3.732 | Horizontal | 1 MHz | 9.779 |
| 10.5232856 GHz | AV | 46.889 | 54 | -7.111 | 244 | 3.732 | Horizontal | 1 MHz | 9.784 |
| 15.7759486 GHz | AV | 41.599 | 54 | -12.401 | 44 | 2.04 | Horizontal | 1 MHz | 10.946 |
| 15.7844498 GHz | AV | 42.689 | 54 | -11.311 | 294 | 2.871 | Horizontal | 1 MHz | 10.99 |
| 10.5571086 GHz | PK | 61.815 | 74 | -12.185 | 265 | 1.714 | Vertical | 1 MHz | 9.826 |
| 10.5616114 GHz | PK | 63.292 | 74 | -10.708 | 255 | 2.867 | Vertical | 1 MHz | 9.82 |
| 14.7885601 GHz | PK | 58.02 | 74 | -15.98 | 185 | 1.5 | Vertical | 1 MHz | 14.534 |
| 15.0170772 GHz | PK | 57.311 | 74 | -16.689 | 168 | 2.292 | Vertical | 1 MHz | 14.048 |
| 10.5571086 GHz | AV | 47.818 | 54 | -6.182 | 265 | 1.714 | Vertical | 1 MHz | 9.826 |
| 10.5616114 GHz | AV | 49.245 | 54 | -4.755 | 255 | 2.867 | Vertical | 1 MHz | 9.82 |
| 14.7885601 GHz | AV | 44.645 | 54 | -9.355 | 185 | 1.5 | Vertical | 1 MHz | 14.534 |
| 15.0170772 GHz | AV | 44.386 | 54 | -9.614 | 168 | 2.292 | Vertical | 1 MHz | 14.048 |
| 10.5616874 GHz | PK | 64.406 | 74 | -9.594 | 195 | 2.292 | Horizontal | 1 MHz | 9.82 |
| 10.5648866 GHz | PK | 53.709 | 74 | -20.291 | 182 | 2.292 | Horizontal | 1 MHz | 9.816 |
| 15.8389175 GHz | PK | 54.541 | 74 | -19.459 | 95 | 2.288 | Horizontal | 1 MHz | 11.282 |
| 15.8469724 GHz | PK | 54.422 | 74 | -19.578 | 217 | 2.871 | Horizontal | 1 MHz | 11.325 |
| 10.5616874 GHz | AV | 49.75 | 54 | -4.25 | 195 | 2.292 | Horizontal | 1 MHz | 9.82 |
| 10.5648866 GHz | AV | 41.039 | 54 | -12.961 | 182 | 2.292 | Horizontal | 1 MHz | 9.816 |
| 15.8389175 GHz | AV | 41.625 | 54 | -12.375 | 95 | 2.288 | Horizontal | 1 MHz | 11.282 |
| 15.8469724 GHz | AV | 41.427 | 54 | -12.573 | 217 | 2.871 | Horizontal | 1 MHz | 11.325 |

**1-17GHz**

| Frequency | Det. | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol. | RBW (Hz) | Correction (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 21.2726158 GHz | PK | 57.072 | 74 | -16.928 | 263 | 1.5 | Vertical | 1 MHz | -0.009 |
| 33.4791127 GHz | PK | 55.131 | 74 | -18.869 | 358 | 1.5 | Vertical | 1 MHz | 3.431 |
| 21.2726158 GHz | AV | 43.764 | 54 | -10.236 | 263 | 1.5 | Vertical | 1 MHz | -0.009 |
| 33.4791127 GHz | AV | 42.231 | 54 | -11.769 | 358 | 1.5 | Vertical | 1 MHz | 3.431 |
| 21.2769378 GHz | PK | 63.296 | 74 | -10.704 | 337 | 1.5 | Horizontal | 1 MHz | -0.005 |
| 27.6510036 GHz | PK | 53.784 | 74 | -20.216 | 110 | 1.5 | Horizontal | 1 MHz | 2.18 |
| 21.2769378 GHz | AV | 49.547 | 54 | -4.453 | 337 | 1.5 | Horizontal | 1 MHz | -0.005 |
| 27.6510036 GHz | AV | 40.709 | 54 | -13.291 | 110 | 1.5 | Horizontal | 1 MHz | 2.18 |
| 21.0308575 GHz | PK | 56.795 | 74 | -17.205 | 309 | 1.5 | Vertical | 1 MHz | -1.045 |
| 39.8255818 GHz | PK | 56.765 | 74 | -17.235 | 176 | 1.5 | Vertical | 1 MHz | 2.632 |
| 21.0308575 GHz | AV | 43.72 | 54 | -10.28 | 309 | 1.5 | Vertical | 1 MHz | -1.045 |
| 39.8255818 GHz | AV | 42.756 | 54 | -11.244 | 176 | 1.5 | Vertical | 1 MHz | 2.632 |
| 21.0537493 GHz | PK | 64.558 | 74 | -9.442 | 324 | 1.5 | Horizontal | 1 MHz | -0.75 |
| 34.9346147 GHz | PK | 57.221 | 74 | -16.779 | 273 | 1.5 | Horizontal | 1 MHz | 5.022 |
| 21.0537493 GHz | AV | 50.288 | 54 | -3.712 | 324 | 1.5 | Horizontal | 1 MHz | -0.75 |
| 34.9346147 GHz | AV | 43.767 | 54 | -10.233 | 273 | 1.5 | Horizontal | 1 MHz | 5.022 |
| 21.1176388 GHz | PK | 56.971 | 74 | -17.029 | 212 | 1.5 | Vertical | 1 MHz | -0.11 |
| 34.9121674 GHz | PK | 56.93 | 74 | -17.07 | 330 | 1.5 | Vertical | 1 MHz | 4.985 |
| 21.1176388 GHz | AV | 42.615 | 54 | -11.385 | 212 | 1.5 | Vertical | 1 MHz | -0.11 |
| 34.9121674 GHz | AV | 43.652 | 54 | -10.348 | 330 | 1.5 | Vertical | 1 MHz | 4.985 |
| 21.1179426 GHz | PK | 62.318 | 74 | -11.682 | 337 | 1.5 | Horizontal | 1 MHz | -0.11 |
| 34.918458 GHz | PK | 56.915 | 74 | -17.085 | 166 | 1.5 | Horizontal | 1 MHz | 4.995 |
| 21.1179426 GHz | AV | 48.667 | 54 | -5.333 | 337 | 1.5 | Horizontal | 1 MHz | -0.11 |
| 34.918458 GHz | AV | 43.675 | 54 | -10.325 | 166 | 1.5 | Horizontal | 1 MHz | 4.995 |

**16-40GHz**

## External Antenna

| Frequency | Det. | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol. | RBW (Hz) | Correction (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 10.5618348 GHz | PK | 55.45 | 74 | -18.55 | 257 | 1.5 | Vertical | 1 MHz | 10.098 |
| 10.5620333 GHz | PK | 59.329 | 74 | -14.671 | 357 | 1.714 | Vertical | 1 MHz | 10.098 |
| 15.8413342 GHz | PK | 55.009 | 74 | -18.991 | 298 | 3.445 | Vertical | 1 MHz | 11.503 |
| 15.8429215 GHz | PK | 56.985 | 74 | -17.015 | 251 | 2.6 | Vertical | 1 MHz | 11.511 |
| 10.5618348 GHz | AV | 42.037 | 54 | -11.963 | 257 | 1.5 | Vertical | 1 MHz | 10.098 |
| 10.5620333 GHz | AV | 46.258 | 54 | -7.742 | 357 | 1.714 | Vertical | 1 MHz | 10.098 |
| 15.8413342 GHz | AV | 42.233 | 54 | -11.767 | 298 | 3.445 | Vertical | 1 MHz | 11.503 |
| 15.8429215 GHz | AV | 43.694 | 54 | -10.306 | 251 | 2.6 | Vertical | 1 MHz | 11.511 |
| 10.5491189 GHz | PK | 55.137 | 74 | -18.863 | 258 | 2.292 | Horizontal | 1 MHz | 10.114 |
| 10.5662694 GHz | PK | 56.78 | 74 | -17.22 | 189 | 2.871 | Horizontal | 1 MHz | 10.093 |
| 15.8407841 GHz | PK | 57.602 | 74 | -16.398 | 204 | 2.605 | Horizontal | 1 MHz | 11.501 |
| 15.8440859 GHz | PK | 55.383 | 74 | -18.617 | 266 | 2.871 | Horizontal | 1 MHz | 11.517 |
| 10.5491189 GHz | AV | 41.292 | 54 | -12.708 | 258 | 2.292 | Horizontal | 1 MHz | 10.114 |
| 10.5662694 GHz | AV | 42.415 | 54 | -11.585 | 189 | 2.871 | Horizontal | 1 MHz | 10.093 |
| 15.8407841 GHz | AV | 44.485 | 54 | -9.515 | 204 | 2.605 | Horizontal | 1 MHz | 11.501 |
| 15.8440859 GHz | AV | 42.211 | 54 | -11.789 | 266 | 2.871 | Horizontal | 1 MHz | 11.517 |
| 10.5152811 GHz | PK | 57.819 | 74 | -16.181 | 277 | 1.714 | Horizontal | 1 MHz | 10.032 |
| 10.5289092 GHz | PK | 55.205 | 74 | -18.795 | 291 | 2.292 | Horizontal | 1 MHz | 10.075 |
| 15.7778754 GHz | PK | 56.28 | 74 | -17.72 | 291 | 2.292 | Horizontal | 1 MHz | 11.189 |
| 15.7799745 GHz | PK | 56.655 | 74 | -17.345 | 291 | 2.292 | Horizontal | 1 MHz | 11.199 |
| 10.5152811 GHz | AV | 44.471 | 54 | -9.529 | 277 | 1.714 | Horizontal | 1 MHz | 10.032 |
| 10.5289092 GHz | AV | 41.248 | 54 | -12.752 | 291 | 2.292 | Horizontal | 1 MHz | 10.075 |
| 15.7778754 GHz | AV | 43.15 | 54 | -10.85 | 291 | 2.292 | Horizontal | 1 MHz | 11.189 |
| 15.7799745 GHz | AV | 43.204 | 54 | -10.796 | 291 | 2.292 | Horizontal | 1 MHz | 11.199 |
| 10.5577885 GHz | PK | 59.009 | 74 | -14.991 | 339 | 1.714 | Vertical | 1 MHz | 10.103 |
| 10.5602754 GHz | PK | 54.239 | 74 | -19.761 | 284 | 2.292 | Vertical | 1 MHz | 10.1 |
| 15.8488866 GHz | PK | 55.045 | 74 | -18.955 | 328 | 2.867 | Vertical | 1 MHz | 11.541 |
| 15.8536749 GHz | PK | 60.132 | 74 | -13.868 | 236 | 1.5 | Vertical | 1 MHz | 11.522 |
| 10.5577885 GHz | AV | 46.185 | 54 | -7.815 | 339 | 1.714 | Vertical | 1 MHz | 10.103 |
| 10.5602754 GHz | AV | 41.008 | 54 | -12.992 | 284 | 2.292 | Vertical | 1 MHz | 10.1 |
| 15.8488866 GHz | AV | 42.167 | 54 | -11.833 | 328 | 2.867 | Vertical | 1 MHz | 11.541 |
| 15.8536749 GHz | AV | 45.585 | 54 | -8.415 | 236 | 1.5 | Vertical | 1 MHz | 11.522 |
| 10.5679667 GHz | PK | 58.586 | 74 | -15.414 | 0 | 1.714 | Horizontal | 1 MHz | 10.091 |
| 10.5713113 GHz | PK | 58.262 | 74 | -15.738 | 11 | 1.714 | Horizontal | 1 MHz | 10.087 |
| 15.8458976 GHz | PK | 62.305 | 74 | -11.695 | 257 | 2.292 | Horizontal | 1 MHz | 11.526 |
| 15.8481634 GHz | PK | 63.028 | 74 | -10.972 | 30 | 2.292 | Horizontal | 1 MHz | 11.537 |
| 10.5679667 GHz | AV | 44.747 | 54 | -9.253 | 0 | 1.714 | Horizontal | 1 MHz | 10.091 |
| 10.5713113 GHz | AV | 44.149 | 54 | -9.851 | 11 | 1.714 | Horizontal | 1 MHz | 10.087 |
| 15.8458976 GHz | AV | 48.293 | 54 | -5.707 | 257 | 2.292 | Horizontal | 1 MHz | 11.526 |
| 15.8481634 GHz | AV | 49.096 | 54 | -4.904 | 30 | 2.292 | Horizontal | 1 MHz | 11.537 |

**1-17GHz**

| Frequency | Det | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol. | RBW (Hz) | Correction (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 16.5097762 GHz | PK | 53.085 | 74 | -20.915 | 319 | 1.5 | Vertical | 1 MHz | 0.277 |
| 21.9964649 GHz | PK | 68.512 | 74 | -5.488 | 299 | 1.5 | Vertical | 1 MHz | -0.475 |
| 16.5097762 GHz | AV | 39.823 | 54 | -14.177 | 319 | 1.5 | Vertical | 1 MHz | 0.277 |
| 21.9964649 GHz | AV | 53.811 | 54 | -0.189 | 299 | 1.5 | Vertical | 1 MHz | -0.475 |
| 16.4946422 GHz | PK | 60.837 | 74 | -13.163 | 357 | 1.5 | Horizontal | 1 MHz | 0.196 |
| 22.0019274 GHz | PK | 61.395 | 74 | -12.605 | 314 | 1.5 | Horizontal | 1 MHz | -0.47 |
| 16.4946422 GHz | AV | 47.322 | 54 | -6.678 | 357 | 1.5 | Horizontal | 1 MHz | 0.196 |
| 22.0019274 GHz | AV | 47.082 | 54 | -6.918 | 314 | 1.5 | Horizontal | 1 MHz | -0.47 |
| 16.7879433 GHz | PK | 56.972 | 74 | -17.028 | 311 | 1.5 | Vertical | 1 MHz | -0.509 |
| 22.3997913 GHz | PK | 64.614 | 74 | -9.386 | 304 | 1.5 | Vertical | 1 MHz | -0.754 |
| 16.7879433 GHz | AV | 42.793 | 54 | -11.207 | 311 | 1.5 | Vertical | 1 MHz | -0.509 |
| 22.3997913 GHz | AV | 51.218 | 54 | -2.782 | 304 | 1.5 | Vertical | 1 MHz | -0.754 |
| 16.8091759 GHz | PK | 66.795 | 74 | -7.205 | 343 | 1.5 | Horizontal | 1 MHz | -0.575 |
| 22.3782165 GHz | PK | 61.875 | 74 | -12.125 | 330 | 1.5 | Horizontal | 1 MHz | -0.707 |
| 16.8091759 GHz | AV | 52.205 | 54 | -1.795 | 343 | 1.5 | Horizontal | 1 MHz | -0.575 |
| 22.3782165 GHz | AV | 44.945 | 54 | -9.055 | 330 | 1.5 | Horizontal | 1 MHz | -0.707 |
| 17.1638265 GHz | PK | 59.523 | 74 | -14.477 | 289 | 1.5 | Vertical | 1 MHz | -0.774 |
| 22.8958982 GHz | PK | 63.859 | 74 | -10.141 | 268 | 1.5 | Vertical | 1 MHz | -0.188 |
| 17.1638265 GHz | AV | 46.564 | 54 | -7.436 | 289 | 1.5 | Vertical | 1 MHz | -0.774 |
| 22.8958982 GHz | AV | 48.965 | 54 | -5.035 | 268 | 1.5 | Vertical | 1 MHz | -0.188 |
| 17.1661218 GHz | PK | 63.313 | 74 | -10.687 | 329 | 1.5 | Horizontal | 1 MHz | -0.79 |
| 22.881082 GHz | PK | 61.691 | 74 | -12.309 | 314 | 1.5 | Horizontal | 1 MHz | -0.239 |
| 17.1661218 GHz | AV | 49.291 | 54 | -4.709 | 329 | 1.5 | Horizontal | 1 MHz | -0.79 |
| 22.881082 GHz | AV | 47.844 | 54 | -6.156 | 314 | 1.5 | Horizontal | 1 MHz | -0.239 |

**16-40GHz**

### 5.5.3 UNII-2C

**Internal Antenna**

| Frequency | Det. | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol. | RBW (Hz) | Correction (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 11.4382908 GHz | PK | 64.221 | 74 | -9.779 | 290 | 3.728 | Vertical | 1 MHz | 10.804 |
| 11.4392325 GHz | PK | 67.619 | 74 | -6.381 | 284 | 3.164 | Vertical | 1 MHz | 10.812 |
| 14.5195045 GHz | PK | 57.416 | 74 | -16.584 | 215 | 1.5 | Vertical | 1 MHz | 14.065 |
| 14.7589006 GHz | PK | 58.334 | 74 | -15.666 | 154 | 1.714 | Vertical | 1 MHz | 14.81 |
| 11.4382908 GHz | AV | 50.875 | 54 | -3.125 | 290 | 3.728 | Vertical | 1 MHz | 10.804 |
| 11.4392325 GHz | AV | 53.744 | 54 | -0.256 | 284 | 3.164 | Vertical | 1 MHz | 10.812 |
| 14.5195045 GHz | AV | 44.435 | 54 | -9.565 | 215 | 1.5 | Vertical | 1 MHz | 14.065 |
| 14.7589006 GHz | AV | 45.345 | 54 | -8.655 | 154 | 1.714 | Vertical | 1 MHz | 14.81 |
| 11.4443858 GHz | PK | 59.768 | 74 | -14.232 | 290 | 2.288 | Horizontal | 1 MHz | 10.855 |
| 11.4494211 GHz | PK | 62.167 | 74 | -11.833 | 284 | 2.292 | Horizontal | 1 MHz | 10.898 |
| 14.7898349 GHz | PK | 58.543 | 74 | -15.457 | 168 | 2.292 | Horizontal | 1 MHz | 14.701 |
| 14.9121595 GHz | PK | 57.81 | 74 | -16.19 | 203 | 1.714 | Horizontal | 1 MHz | 14.405 |
| 11.4443858 GHz | AV | 45.86 | 54 | -8.14 | 290 | 2.288 | Horizontal | 1 MHz | 10.855 |
| 11.4494211 GHz | AV | 48.127 | 54 | -5.873 | 284 | 2.292 | Horizontal | 1 MHz | 10.898 |
| 14.7898349 GHz | AV | 44.997 | 54 | -9.003 | 168 | 2.292 | Horizontal | 1 MHz | 14.701 |
| 14.9121595 GHz | AV | 44.596 | 54 | -9.404 | 203 | 1.714 | Horizontal | 1 MHz | 14.405 |
| 11.2007918 GHz | PK | 57.207 | 74 | -16.793 | 250 | 2.292 | Vertical | 1 MHz | 10.556 |
| 11.2013448 GHz | PK | 65.589 | 74 | -8.411 | 291 | 3.445 | Vertical | 1 MHz | 10.554 |
| 14.5710922 GHz | PK | 57.715 | 74 | -16.285 | 309 | 1.5 | Vertical | 1 MHz | 14.51 |
| 14.7158761 GHz | PK | 58.55 | 74 | -15.45 | 44 | 2.871 | Vertical | 1 MHz | 14.965 |
| 11.2007918 GHz | AV | 44.145 | 54 | -9.855 | 250 | 2.292 | Vertical | 1 MHz | 10.556 |
| 11.2013448 GHz | AV | 53.043 | 54 | -0.957 | 291 | 3.445 | Vertical | 1 MHz | 10.554 |
| 14.5710922 GHz | AV | 45.006 | 54 | -8.994 | 309 | 1.5 | Vertical | 1 MHz | 14.51 |
| 14.7158761 GHz | AV | 45.488 | 54 | -8.512 | 44 | 2.871 | Vertical | 1 MHz | 14.965 |
| 10.9945424 GHz | PK | 60.489 | 74 | -13.511 | 316 | 2.04 | Vertical | 1 MHz | 11.423 |
| 10.9970892 GHz | PK | 58.416 | 74 | -15.584 | 306 | 2.292 | Vertical | 1 MHz | 11.394 |
| 14.6564112 GHz | PK | 58.52 | 74 | -15.48 | 309 | 2.292 | Vertical | 1 MHz | 14.913 |
| 14.762818 GHz | PK | 58.118 | 74 | -15.882 | 172 | 2.292 | Vertical | 1 MHz | 14.796 |
| 10.9945424 GHz | AV | 46.812 | 54 | -7.188 | 316 | 2.04 | Vertical | 1 MHz | 11.423 |
| 10.9970892 GHz | AV | 45.486 | 54 | -8.514 | 306 | 2.292 | Vertical | 1 MHz | 11.394 |
| 14.6564112 GHz | AV | 45.241 | 54 | -8.759 | 309 | 2.292 | Vertical | 1 MHz | 14.913 |
| 14.762818 GHz | AV | 45.128 | 54 | -8.872 | 172 | 2.292 | Vertical | 1 MHz | 14.796 |
| 10.9931549 GHz | PK | 61.343 | 74 | -12.657 | 330 | 1.714 | Horizontal | 1 MHz | 11.439 |
| 10.9967782 GHz | PK | 62.325 | 74 | -11.675 | 306 | 1.714 | Horizontal | 1 MHz | 11.397 |
| 16.4948006 GHz | PK | 57.309 | 74 | -16.691 | 258 | 1.714 | Horizontal | 1 MHz | 13.306 |
| 16.5138772 GHz | PK | 59.265 | 74 | -14.735 | 353 | 1.714 | Horizontal | 1 MHz | 13.511 |
| 10.9931549 GHz | AV | 47.903 | 54 | -6.097 | 330 | 1.714 | Horizontal | 1 MHz | 11.439 |
| 10.9967782 GHz | AV | 47.419 | 54 | -6.581 | 306 | 1.714 | Horizontal | 1 MHz | 11.397 |
| 16.4948006 GHz | AV | 44.063 | 54 | -9.937 | 258 | 1.714 | Horizontal | 1 MHz | 13.306 |
| 16.5138772 GHz | AV | 45.344 | 54 | -8.656 | 353 | 1.714 | Horizontal | 1 MHz | 13.511 |

**1-17GHz**

| Frequency | Det. | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol. | RBW (Hz) | Correction (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 17.1434541 GHz | PK | 49.466 | 74 | -24.534 | 148 | 1.5 | Vertical | 1 MHz | -0.636 |
| 22.8777483 GHz | PK | 51.57 | 74 | -22.43 | 347 | 1.5 | Vertical | 1 MHz | -0.251 |
| 17.1434541 GHz | AV | 36.123 | 54 | -17.877 | 148 | 1.5 | Vertical | 1 MHz | -0.636 |
| 22.8777483 GHz | AV | 37.574 | 54 | -16.426 | 347 | 1.5 | Vertical | 1 MHz | -0.251 |
| 17.164075 GHz | PK | 69.262 | 74 | -4.738 | 291 | 1.5 | Horizontal | 1 MHz | -0.776 |
| 22.8795629 GHz | PK | 61.698 | 74 | -12.302 | 319 | 1.5 | Horizontal | 1 MHz | -0.245 |
| 39.6144027 GHz | PK | 56.2 | 74 | -17.8 | 90 | 1.5 | Horizontal | 1 MHz | 2.821 |
| 17.164075 GHz | AV | 48.266 | 54 | -5.734 | 291 | 1.5 | Horizontal | 1 MHz | -0.776 |
| 22.8795629 GHz | AV | 48.207 | 54 | -5.793 | 319 | 1.5 | Horizontal | 1 MHz | -0.245 |
| 39.6144027 GHz | AV | 42.705 | 54 | -11.295 | 90 | 1.5 | Horizontal | 1 MHz | 2.821 |
| 16.5186426 GHz | PK | 63.201 | 74 | -10.799 | 2 | 1.5 | Vertical | 1 MHz | 0.317 |
| 22.0028748 GHz | PK | 65.668 | 74 | -8.332 | 61 | 1.5 | Vertical | 1 MHz | -0.469 |
| 34.9896842 GHz | PK | 56.415 | 74 | -17.585 | 118 | 1.5 | Vertical | 1 MHz | 5.106 |
| 16.5186426 GHz | AV | 45.294 | 54 | -8.706 | 2 | 1.5 | Vertical | 1 MHz | 0.317 |
| 22.0028748 GHz | AV | 52.412 | 54 | -1.588 | 61 | 1.5 | Vertical | 1 MHz | -0.469 |
| 34.9896842 GHz | AV | 43.743 | 54 | -10.257 | 118 | 1.5 | Vertical | 1 MHz | 5.106 |
| 16.4909862 GHz | PK | 62.039 | 74 | -11.961 | 358 | 1.5 | Horizontal | 1 MHz | 0.171 |
| 22.0037759 GHz | PK | 63.73 | 74 | -10.27 | 59 | 1.5 | Horizontal | 1 MHz | -0.468 |
| 16.4909862 GHz | AV | 47.365 | 54 | -6.635 | 358 | 1.5 | Horizontal | 1 MHz | 0.171 |
| 22.0037759 GHz | AV | 49.551 | 54 | -4.449 | 59 | 1.5 | Horizontal | 1 MHz | -0.468 |
| 16.8036627 GHz | PK | 58.228 | 74 | -15.772 | 56 | 1.5 | Vertical | 1 MHz | -0.575 |
| 22.3931693 GHz | PK | 55.063 | 74 | -18.937 | 61 | 1.5 | Vertical | 1 MHz | -0.74 |
| 39.260016 GHz | PK | 56.091 | 74 | -17.909 | 36 | 1.5 | Vertical | 1 MHz | 3.174 |
| 16.8036627 GHz | AV | 44.513 | 54 | -9.487 | 56 | 1.5 | Vertical | 1 MHz | -0.575 |
| 22.3931693 GHz | AV | 41.295 | 54 | -12.705 | 61 | 1.5 | Vertical | 1 MHz | -0.74 |
| 39.260016 GHz | AV | 42.923 | 54 | -11.077 | 36 | 1.5 | Vertical | 1 MHz | 3.174 |
| 16.7877243 GHz | PK | 65.592 | 74 | -8.408 | 74 | 1.5 | Horizontal | 1 MHz | -0.508 |
| 22.4134677 GHz | PK | 61.1 | 74 | -12.9 | 82 | 1.5 | Horizontal | 1 MHz | -0.787 |
| 16.7877243 GHz | AV | 50.867 | 54 | -3.133 | 74 | 1.5 | Horizontal | 1 MHz | -0.508 |
| 22.4134677 GHz | AV | 46.821 | 54 | -7.179 | 82 | 1.5 | Horizontal | 1 MHz | -0.787 |

**16-40GHz**

## External Antenna

| Frequency | Det | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol. | RBW (Hz) | Correction (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 11.438858 GHz | PK | 61.562 | 74 | -12.438 | 214 | 3.728 | Vertical | 1 MHz | 10.808 |
| 11.4418215 GHz | PK | 57.786 | 74 | -16.214 | 284 | 3.728 | Vertical | 1 MHz | 10.834 |
| 14.6087076 GHz | PK | 58.268 | 74 | -15.732 | 346 | 2.04 | Vertical | 1 MHz | 14.762 |
| 14.6183667 GHz | PK | 58.431 | 74 | -15.569 | 211 | 1.714 | Vertical | 1 MHz | 14.792 |
| 11.438858 GHz | AV | 48.898 | 54 | -5.102 | 214 | 3.728 | Vertical | 1 MHz | 10.808 |
| 11.4418215 GHz | AV | 44.506 | 54 | -9.494 | 284 | 3.728 | Vertical | 1 MHz | 10.834 |
| 14.6087076 GHz | AV | 45.184 | 54 | -8.816 | 346 | 2.04 | Vertical | 1 MHz | 14.762 |
| 14.6183667 GHz | AV | 45.289 | 54 | -8.711 | 211 | 1.714 | Vertical | 1 MHz | 14.792 |
| 11.4340025 GHz | PK | 64.638 | 74 | -9.362 | 244 | 1.714 | Horizontal | 1 MHz | 10.767 |
| 11.4342306 GHz | PK | 64.644 | 74 | -9.356 | 244 | 1.714 | Horizontal | 1 MHz | 10.769 |
| 14.2923428 GHz | PK | 58.624 | 74 | -15.376 | 193 | 2.292 | Horizontal | 1 MHz | 14.179 |
| 14.7505892 GHz | PK | 57.98 | 74 | -16.02 | 266 | 2.867 | Horizontal | 1 MHz | 14.84 |
| 11.4340025 GHz | AV | 51.171 | 54 | -2.829 | 244 | 1.714 | Horizontal | 1 MHz | 10.767 |
| 11.4342306 GHz | AV | 51.116 | 54 | -2.884 | 244 | 1.714 | Horizontal | 1 MHz | 10.769 |
| 14.2923428 GHz | AV | 44.407 | 54 | -9.593 | 193 | 2.292 | Horizontal | 1 MHz | 14.179 |
| 14.7505892 GHz | AV | 44.633 | 54 | -9.367 | 266 | 2.867 | Horizontal | 1 MHz | 14.84 |
| 11.1918529 GHz | PK | 62.664 | 74 | -11.336 | 316 | 2.292 | Vertical | 1 MHz | 10.577 |
| 11.1926965 GHz | PK | 65.227 | 74 | -8.773 | 306 | 1.714 | Vertical | 1 MHz | 10.575 |
| 13.9806525 GHz | PK | 58.715 | 74 | -15.285 | 320 | 1.714 | Vertical | 1 MHz | 13.914 |
| 14.6028317 GHz | PK | 58.242 | 74 | -15.758 | 0 | 2.867 | Vertical | 1 MHz | 14.743 |
| 11.1918529 GHz | AV | 49.234 | 54 | -4.766 | 316 | 2.292 | Vertical | 1 MHz | 10.577 |
| 11.1926965 GHz | AV | 51.729 | 54 | -2.271 | 306 | 1.714 | Vertical | 1 MHz | 10.575 |
| 13.9806525 GHz | AV | 44.72 | 54 | -9.28 | 320 | 1.714 | Vertical | 1 MHz | 13.914 |
| 14.6028317 GHz | AV | 44.825 | 54 | -9.175 | 0 | 2.867 | Vertical | 1 MHz | 14.743 |
| 11.2044298 GHz | PK | 65.356 | 74 | -8.644 | 312 | 2.036 | Horizontal | 1 MHz | 10.547 |
| 11.2046933 GHz | PK | 61.69 | 74 | -12.31 | 247 | 2.867 | Horizontal | 1 MHz | 10.547 |
| 16.8093494 GHz | PK | 56.686 | 74 | -17.314 | 309 | 3.169 | Horizontal | 1 MHz | 14.353 |
| 16.8100236 GHz | PK | 59.298 | 74 | -14.702 | 48 | 3.165 | Horizontal | 1 MHz | 14.352 |
| 11.2044298 GHz | AV | 50.696 | 54 | -3.304 | 312 | 2.036 | Horizontal | 1 MHz | 10.547 |
| 11.2046933 GHz | AV | 48.36 | 54 | -5.64 | 247 | 2.867 | Horizontal | 1 MHz | 10.547 |
| 16.8093494 GHz | AV | 43.929 | 54 | -10.071 | 309 | 3.169 | Horizontal | 1 MHz | 14.353 |
| 16.8100236 GHz | AV | 46.111 | 54 | -7.889 | 48 | 3.165 | Horizontal | 1 MHz | 14.352 |
| 10.993307 GHz | PK | 61.885 | 74 | -12.115 | 306 | 1.714 | Vertical | 1 MHz | 11.437 |
| 10.9933121 GHz | PK | 59.709 | 74 | -14.291 | 306 | 1.5 | Vertical | 1 MHz | 11.437 |
| 14.2020011 GHz | PK | 58.076 | 74 | -15.924 | 117 | 1.714 | Vertical | 1 MHz | 14.299 |
| 14.6655536 GHz | PK | 58.188 | 74 | -15.812 | 156 | 3.444 | Vertical | 1 MHz | 14.942 |
| 10.993307 GHz | AV | 48.14 | 54 | -5.86 | 306 | 1.714 | Vertical | 1 MHz | 11.437 |
| 10.9933121 GHz | AV | 46.433 | 54 | -7.567 | 306 | 1.5 | Vertical | 1 MHz | 11.437 |
| 14.2020011 GHz | AV | 44.909 | 54 | -9.091 | 117 | 1.714 | Vertical | 1 MHz | 14.299 |
| 14.6655536 GHz | AV | 45.001 | 54 | -8.999 | 156 | 3.444 | Vertical | 1 MHz | 14.942 |
| 10.9894372 GHz | PK | 57.612 | 74 | -16.388 | 250 | 2.041 | Horizontal | 1 MHz | 11.481 |
| 10.9897322 GHz | PK | 60.049 | 74 | -13.951 | 189 | 2.292 | Horizontal | 1 MHz | 11.478 |
| 16.4944515 GHz | PK | 56.312 | 74 | -17.688 | 320 | 2.866 | Horizontal | 1 MHz | 13.302 |
| 16.5034881 GHz | PK | 58.997 | 74 | -15.003 | 218 | 2.041 | Horizontal | 1 MHz | 13.401 |
| 10.9894372 GHz | AV | 42.675 | 54 | -11.325 | 250 | 2.041 | Horizontal | 1 MHz | 11.481 |
| 10.9897322 GHz | AV | 45.527 | 54 | -8.473 | 189 | 2.292 | Horizontal | 1 MHz | 11.478 |
| 16.4944515 GHz | AV | 43.021 | 54 | -10.979 | 320 | 2.866 | Horizontal | 1 MHz | 13.302 |
| 16.5034881 GHz | AV | 45.873 | 54 | -8.127 | 218 | 2.041 | Horizontal | 1 MHz | 13.401 |

**1-17GHz**

| Frequency | Det | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol. | Meas. Time (s) | RBW (Hz) | Correction (dB) |
|---|---|---|---|---|---|---|---|---|---|---|
| 17.1596881 GHz | PK | 63.311 | 74 | -10.689 | 283 | 1.5 | Vertical | 5 | 1 MHz | -0.747 |
| 22.879989 GHz | PK | 62.126 | 74 | -11.874 | 258 | 1.5 | Vertical | 5 | 1 MHz | -0.243 |
| 17.1596881 GHz | AV | 49.219 | 54 | -4.781 | 283 | 1.5 | Vertical | 5 | 1 MHz | -0.747 |
| 22.879989 GHz | AV | 48.607 | 54 | -5.393 | 258 | 1.5 | Vertical | 5 | 1 MHz | -0.243 |
| 17.1688947 GHz | PK | 64.51 | 74 | -9.49 | 360 | 1.5 | Horizontal | 5 | 1 MHz | -0.809 |
| 22.8723646 GHz | PK | 64.366 | 74 | -9.634 | 309 | 1.5 | Horizontal | 5 | 1 MHz | -0.27 |
| 33.4522527 GHz | PK | 55.521 | 74 | -18.479 | 110 | 1.5 | Horizontal | 5 | 1 MHz | 3.277 |
| 39.5028535 GHz | PK | 56.389 | 74 | -17.611 | 5 | 1.5 | Horizontal | 5 | 1 MHz | 3.475 |
| 17.1688947 GHz | AV | 50.022 | 54 | -3.978 | 360 | 1.5 | Horizontal | 5 | 1 MHz | -0.809 |
| 22.8723646 GHz | AV | 50.629 | 54 | -3.371 | 309 | 1.5 | Horizontal | 5 | 1 MHz | -0.27 |
| 33.4522527 GHz | AV | 42.107 | 54 | -11.893 | 110 | 1.5 | Horizontal | 5 | 1 MHz | 3.277 |
| 39.5028535 GHz | AV | 43.341 | 54 | -10.659 | 5 | 1.5 | Horizontal | 5 | 1 MHz | 3.475 |
| 16.5079142 GHz | PK | 59.219 | 74 | -14.781 | 258 | 1.5 | Vertical | 5 | 1 MHz | 0.268 |
| 21.9972194 GHz | PK | 67.374 | 74 | -6.626 | 294 | 1.5 | Vertical | 5 | 1 MHz | -0.475 |
| 16.5079142 GHz | AV | 44.863 | 54 | -9.137 | 258 | 1.5 | Vertical | 5 | 1 MHz | 0.268 |
| 21.9972194 GHz | AV | 53.34 | 54 | -0.56 | 294 | 1.5 | Vertical | 5 | 1 MHz | -0.475 |
| 16.5134099 GHz | PK | 62.164 | 74 | -11.836 | 340 | 1.5 | Horizontal | 5 | 1 MHz | 0.293 |
| 22.0006603 GHz | PK | 63.036 | 74 | -10.964 | 304 | 1.5 | Horizontal | 5 | 1 MHz | -0.471 |
| 34.9292239 GHz | PK | 58.097 | 74 | -15.903 | 146 | 1.5 | Horizontal | 5 | 1 MHz | 5.013 |
| 16.5134099 GHz | AV | 46.648 | 54 | -7.352 | 340 | 1.5 | Horizontal | 5 | 1 MHz | 0.293 |
| 22.0006603 GHz | AV | 48.72 | 54 | -5.28 | 304 | 1.5 | Horizontal | 5 | 1 MHz | -0.471 |
| 34.9292239 GHz | AV | 43.585 | 54 | -10.415 | 146 | 1.5 | Horizontal | 5 | 1 MHz | 5.013 |
| 16.8058841 GHz | PK | 61.436 | 74 | -12.564 | 289 | 1.5 | Vertical | 5 | 1 MHz | -0.575 |
| 22.4015546 GHz | PK | 64.603 | 74 | -9.397 | 294 | 1.5 | Vertical | 5 | 1 MHz | -0.758 |
| 16.8058841 GHz | AV | 46.339 | 54 | -7.661 | 289 | 1.5 | Vertical | 5 | 1 MHz | -0.575 |
| 22.4015546 GHz | AV | 51.372 | 54 | -2.628 | 294 | 1.5 | Vertical | 5 | 1 MHz | -0.758 |
| 16.8070476 GHz | PK | 67.357 | 74 | -6.643 | 327 | 1.5 | Horizontal | 5 | 1 MHz | -0.575 |
| 22.3946264 GHz | PK | 63.089 | 74 | -10.911 | 327 | 1.5 | Horizontal | 5 | 1 MHz | -0.743 |
| 16.8070476 GHz | AV | 53.735 | 54 | -0.265 | 327 | 1.5 | Horizontal | 5 | 1 MHz | -0.575 |
| 22.3946264 GHz | AV | 49.242 | 54 | -4.758 | 327 | 1.5 | Horizontal | 5 | 1 MHz | -0.743 |

**16-40GHz**

## 5.6 §15.407(a) Maximum Power Spectral Density

All chains were measured and summed under the guidance of KDB 789033 Section II. F. and KDB 662911 D01. Please see associated annex for details on instrument settings.

The maximum average power spectral density conducted from the intentional radiator of the antenna shall not be greater than 11 dBm in any 1 MHz band during any time interval of continuous transmission. Results of this testing are summarized. With a 6 dBi antenna, the conducted limit for power spectral density is 11 dBm.

Internal Antenna PSD limit = 6dB. (15.407 limit - Antenna gain >6 dBi, or 11dBm – 5dB).
External Antenna PSD Limit = 9dB. (15.407 limit - Antenna gain >6 dBi, or 11dBm – 2dB).

See Section 2.2 of this report for the directional gain calculation.

Results of this testing are summarized.

### 5.6.1 UNII-2A

**Internal Antenna NSS > 1**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | PSD |
|---|---|---|---|---|
| OFDM 20 | 5260 | Mcs0_Nss4 | 16 | 5.68 |
| OFDM 20 | 5280 | Mcs0_Nss4 | 16 | 5.50 |
| OFDM 20 | 5320 | Mcs0_Nss4 | 16 | 5.01 |
| HE20 | 5260 | Mcs0_Nss4 | 17 | 5.43 |
| HE20 | 5280 | Mcs0_Nss4 | 17 | 5.20 |
| HE20 | 5320 | Mcs0_Nss4 | 17 | 5.14 |
| HE40 | 5270 | Mcs0_Nss4 | 17 | 2.27 |
| HE40 | 5310 | Mcs0_Nss4 | 17 | 2.38 |
| HE80 | 5290 | Mcs0_Nss4 | 17 | -1.08 |
| HE160 | 5250 | Mcs0_Nss4 | 17 | -3.53 |

**Internal Antenna NSS = 1**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | PSD |
|---|---|---|---|---|
| OFDM 20 | 5260 | Mcs0_Nss1 | 13 | 2.68 |
| OFDM 20 | 5280 | Mcs0_Nss1 | 13 | 2.50 |
| OFDM 20 | 5320 | Mcs0_Nss1 | 13 | 2.01 |
| HE20 | 5260 | Mcs0_Nss1 | 14 | 2.43 |
| HE20 | 5280 | Mcs0_Nss1 | 14 | 2.20 |
| HE20 | 5320 | Mcs0_Nss1 | 14 | 2.14 |
| HE40 | 5270 | Mcs0_Nss1 | 17 | 2.27 |
| HE40 | 5310 | Mcs0_Nss1 | 17 | 2.38 |
| HE80 | 5290 | Mcs0_Nss1 | 17 | -1.08 |
| HE160 | 5250 | Mcs0_Nss1 | 17 | -3.53 |

**External Antenna NSS > 1**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | PSD |
|---|---|---|---|---|
| OFDM 20 | 5260 | Mcs0_Nss4 | 20 | 8.30 |
| OFDM 20 | 5280 | Mcs0_Nss4 | 20 | 8.45 |
| OFDM 20 | 5320 | Mcs0_Nss4 | 20 | 8.72 |
| HE20 | 5260 | Mcs0_Nss4 | 21 | 8.42 |
| HE20 | 5280 | Mcs0_Nss4 | 21 | 8.35 |
| HE20 | 5320 | Mcs0_Nss4 | 21 | 7.97 |
| HE40 | 5270 | Mcs0_Nss4 | 21 | 5.44 |
| HE40 | 5310 | Mcs0_Nss4 | 21 | 5.16 |
| HE80 | 5290 | Mcs0_Nss4 | 21 | 2.00 |
| HE160 | 5250 | Mcs0_Nss4 | 21 | -0.33 |

**External Antenna NSS = 1**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | PSD |
|---|---|---|---|---|
| OFDM 20 | 5260 | Mcs0_Nss1 | 17 | 5.30 |
| OFDM 20 | 5280 | Mcs0_Nss1 | 17 | 5.45 |
| OFDM 20 | 5320 | Mcs0_Nss1 | 17 | 5.72 |
| HE20 | 5260 | Mcs0_Nss1 | 18 | 5.42 |
| HE20 | 5280 | Mcs0_Nss1 | 18 | 5.35 |
| HE20 | 5320 | Mcs0_Nss1 | 19 | 5.97 |
| HE40 | 5270 | Mcs0_Nss1 | 21 | 5.44 |
| HE40 | 5310 | Mcs0_Nss1 | 21 | 5.16 |
| HE80 | 5290 | Mcs0_Nss1 | 21 | 2.00 |
| HE160 | 5250 | Mcs0_Nss1 | 21 | -0.33 |

### 5.6.2 UNII-2C

**Internal Antenna NSS > 1**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | PSD |
|---|---|---|---|---|
| OFDM 20 | 5500 | Mcs0_Nss4 | 16 | 5.77 |
| OFDM 20 | 5600 | Mcs0_Nss4 | 15 | 5.11 |
| OFDM 20 | 5720 | Mcs0_Nss4 | 16 | 5.65 |
| HE20 | 5500 | Mcs0_Nss4 | 16 | 5.10 |
| HE20 | 5600 | Mcs0_Nss4 | 16 | 5.30 |
| HE20 | 5720 | Mcs0_Nss4 | 17 | 5.85 |
| HE40 | 5510 | Mcs0_Nss4 | 16 | 2.48 |
| HE40 | 5590 | Mcs0_Nss4 | 17 | 3.17 |
| HE40 | 5710 | Mcs0_Nss4 | 17 | 3.09 |
| HE80 | 5530 | Mcs0_Nss4 | 17 | 2.53 |
| HE80 | 5610 | Mcs0_Nss4 | 17 | 0.22 |
| HE80 | 5690 | Mcs0_Nss4 | 17 | 2.40 |
| HE160 | 5570 | Mcs0_Nss4 | 17 | -2.53 |

**Internal Antenna NSS = 1**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | PSD |
|---|---|---|---|---|
| OFDM 20 | 5500 | Mcs0_Nss1 | 13 | 2.77 |
| OFDM 20 | 5600 | Mcs0_Nss1 | 12 | 2.11 |
| OFDM 20 | 5720 | Mcs0_Nss1 | 13 | 2.65 |
| HE20 | 5500 | Mcs0_Nss1 | 13 | 2.10 |
| HE20 | 5600 | Mcs0_Nss1 | 13 | 2.30 |
| HE20 | 5720 | Mcs0_Nss1 | 14 | 2.85 |
| HE40 | 5510 | Mcs0_Nss1 | 16 | 2.48 |
| HE40 | 5590 | Mcs0_Nss1 | 17 | 3.17 |
| HE40 | 5710 | Mcs0_Nss1 | 17 | 3.09 |
| HE80 | 5530 | Mcs0_Nss1 | 17 | 2.53 |
| HE80 | 5610 | Mcs0_Nss1 | 17 | 0.22 |
| HE80 | 5690 | Mcs0_Nss1 | 17 | 2.40 |
| HE160 | 5570 | Mcs0_Nss1 | 17 | -2.53 |

**External Antenna NSS > 1**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | PSD |
|---|---|---|---|---|
| OFDM 20 | 5500 | Mcs0_Nss4 | 19 | 8.29 |
| OFDM 20 | 5600 | Mcs0_Nss4 | 20 | 8.92 |
| OFDM 20 | 5720 | Mcs0_Nss4 | 19 | 8.44 |
| HE20 | 5500 | Mcs0_Nss4 | 20 | 8.69 |
| HE20 | 5600 | Mcs0_Nss4 | 20 | 8.18 |
| HE20 | 5720 | Mcs0_Nss4 | 20 | 8.93 |
| HE40 | 5510 | Mcs0_Nss4 | 21 | 5.77 |
| HE40 | 5590 | Mcs0_Nss4 | 21 | 6.12 |
| HE40 | 5710 | Mcs0_Nss4 | 21 | 5.85 |
| HE80 | 5530 | Mcs0_Nss4 | 21 | 3.02 |
| HE80 | 5610 | Mcs0_Nss4 | 20 | 2.89 |
| HE80 | 5690 | Mcs0_Nss4 | 20 | 2.53 |
| HE160 | 5570 | Mcs0_Nss4 | 21 | 0.11 |

**External Antenna NSS = 1**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | PSD |
|---|---|---|---|---|
| OFDM 20 | 5500 | Mcs0_Nss1 | 16 | 5.29 |
| OFDM 20 | 5600 | Mcs0_Nss1 | 17 | 5.92 |
| OFDM 20 | 5720 | Mcs0_Nss1 | 16 | 5.44 |
| HE20 | 5500 | Mcs0_Nss1 | 17 | 5.69 |
| HE20 | 5600 | Mcs0_Nss1 | 17 | 5.18 |
| HE20 | 5720 | Mcs0_Nss1 | 17 | 5.93 |
| HE40 | 5510 | Mcs0_Nss1 | 21 | 5.77 |
| HE40 | 5590 | Mcs0_Nss1 | 20 | 5.12 |
| HE40 | 5710 | Mcs0_Nss1 | 21 | 5.85 |
| HE80 | 5530 | Mcs0_Nss1 | 21 | 3.02 |
| HE80 | 5610 | Mcs0_Nss1 | 20 | 2.89 |
| HE80 | 5690 | Mcs0_Nss1 | 20 | 2.53 |
| HE160 | 5570 | Mcs0_Nss1 | 21 | 0.11 |

## Result

The maximum average power spectral density was less than the limit of 11 dBm; therefore, the EUT complies with the specification.

## 5.7 DFS Requirement

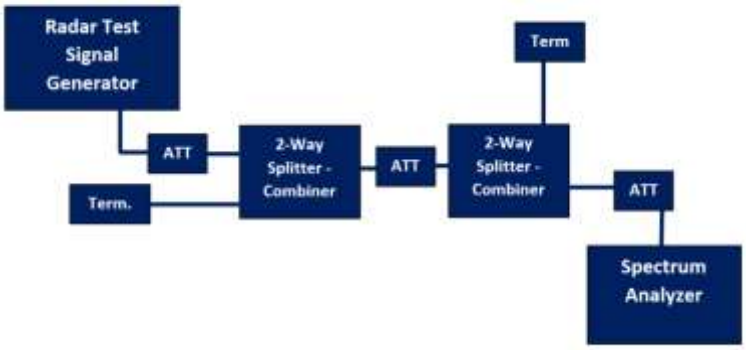
This product is a master with radar detection. The outcome of the required DFS tests is located in this section. DFS testing was performed following the test procedures as outlined in KDB 905462.

The product passes all required DFS tests for a master with radar detection.

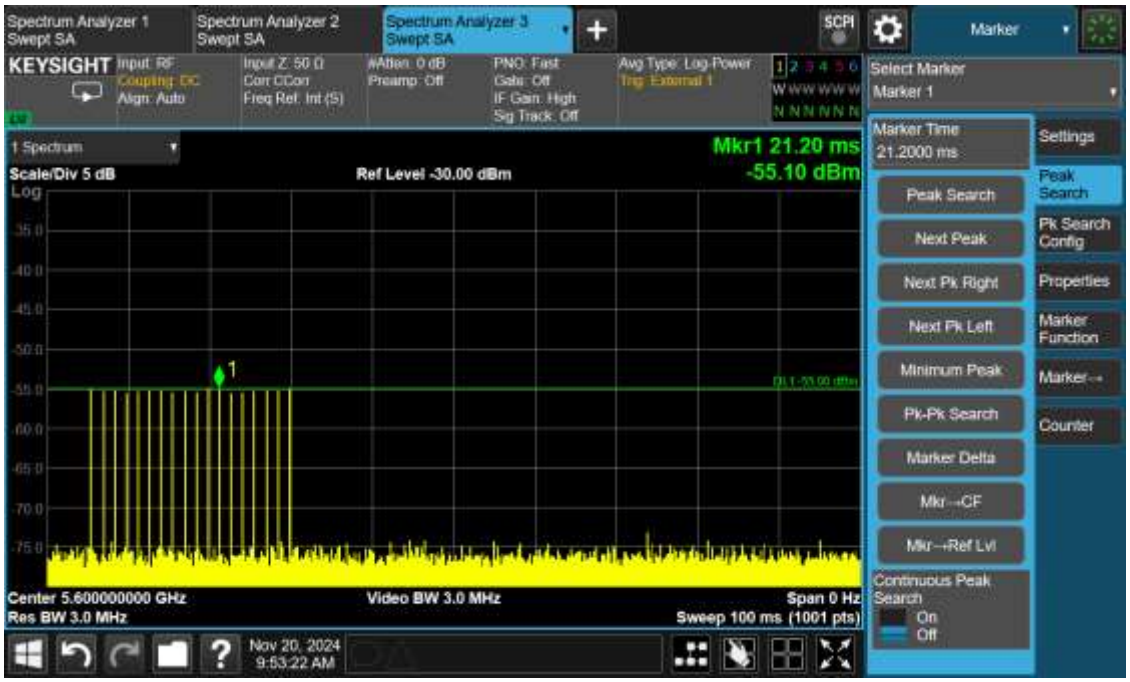
| Information | Status | |
|---|---|---|
| Possible Antenna/s | Integral/ 11 and 8 dBi External omni | |
| Antenna used for test | 8dBi | |
| Operating mode | Master | |
| If Client | N/A | |
| Port used for testing | Ext0 & EXT1 | |
| EIRP range | > 200 milliwatts | |
| Impedance of port | 50 ohms | |
| Channel loading technique | Data transfer was enacted to achieve a minimum channel loading of approximately 17% | |
| Antenna measurement technique | See note 1 | |
| Time of power-on cycle | 65s | |
| Detection threshold level | -55.0 (-64 dBm + Ant Gain + 1) | |

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

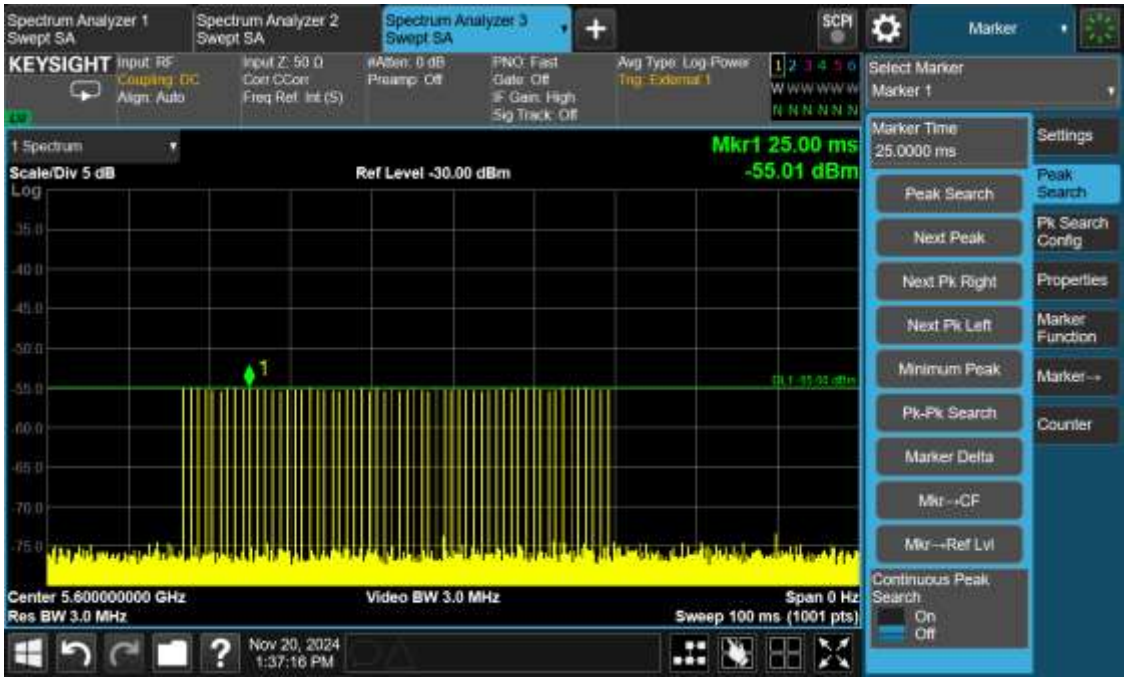
| Requirement | Operational Mode | |
|---|---|---|
| | Master or Client Client Without Radar Detection | Client Without Radar Detection |
| *DFS Detection Threshold* | Yes | Not Required |
| *Channel Closing Transmission Time* | Yes | Yes |
| *Channel Move Time* | Yes | Yes |
| *U-NII Detection Bandwidth*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



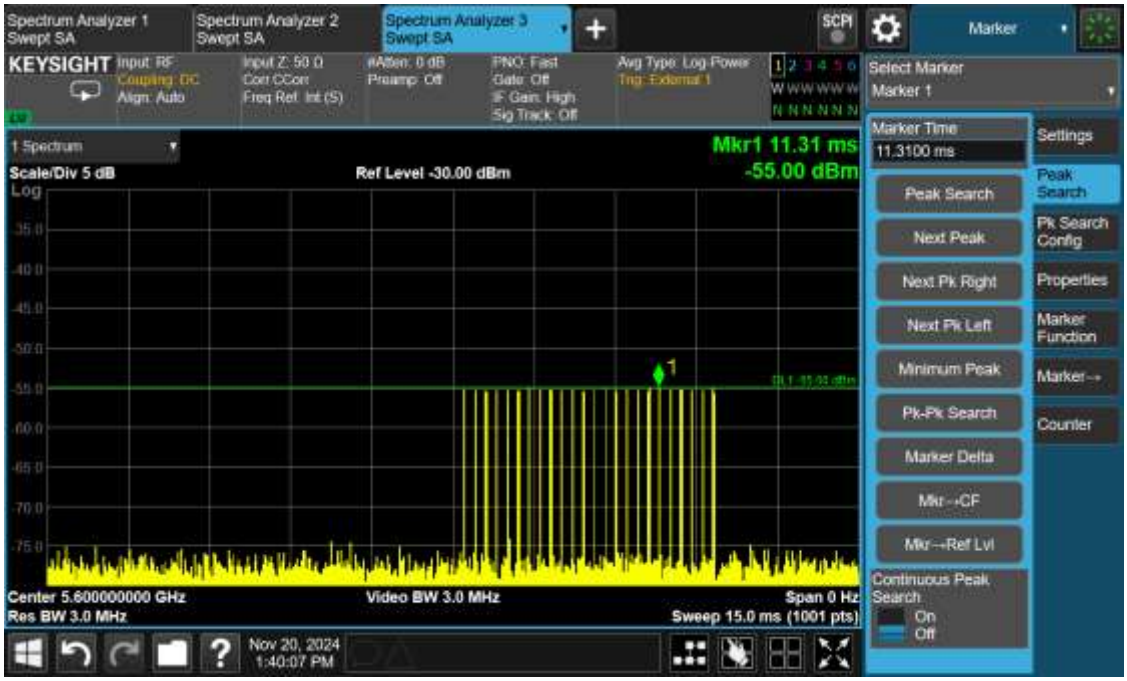

| Maximum Transmit Power | Value (See Notes 1, 2, and 3) |
|---|---|
| EIRP ≥ 200 milliwatt | -64 dBm |
| EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz | -62 dBm |
| EIRP < 200 milliwatt that do not meet the power spectral density requirement | -64 dBm |
| **Note 1:** This is the level 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. | |



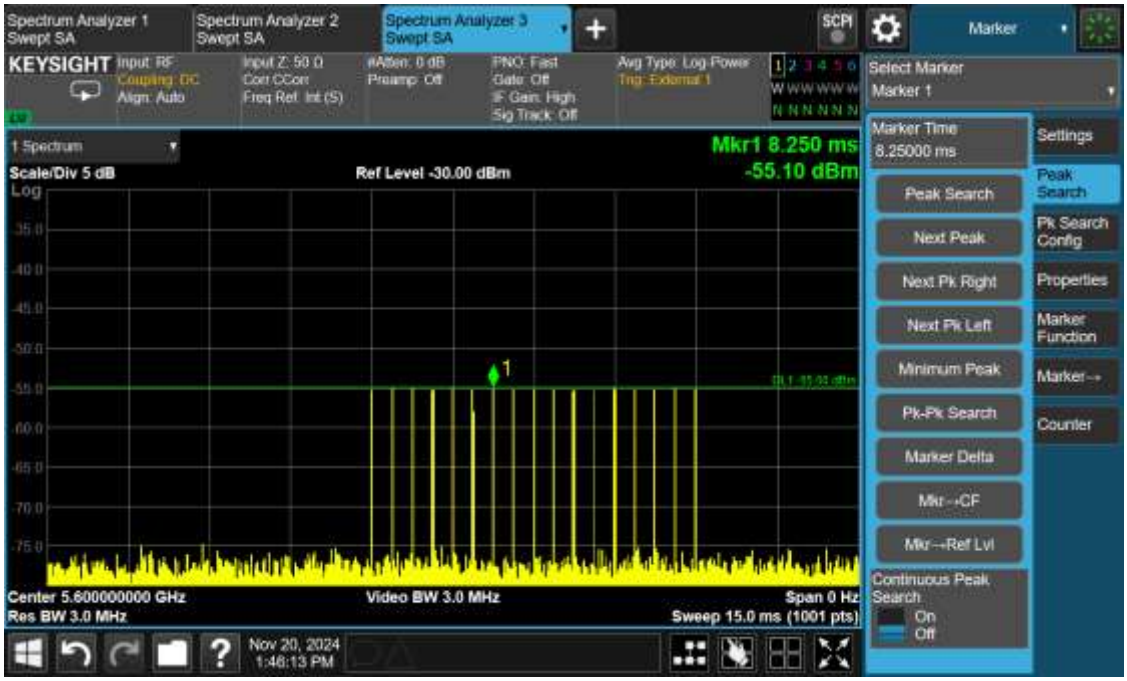

**Plot 1: Radar Level 0**



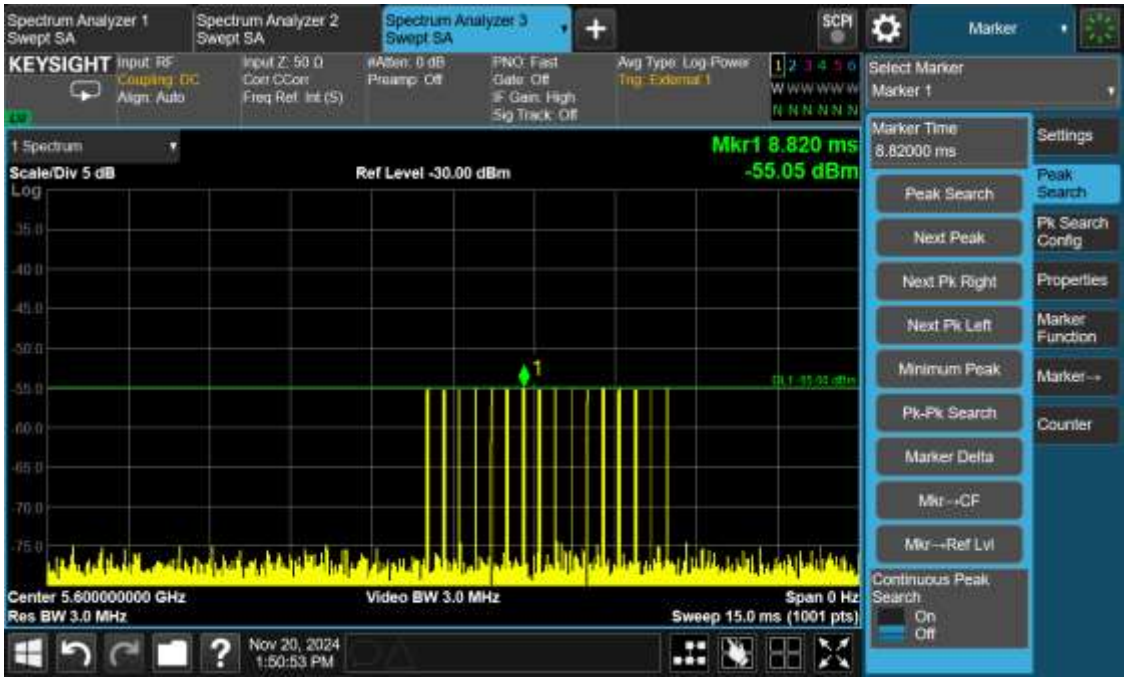

**Plot 2: Radar Level 1**



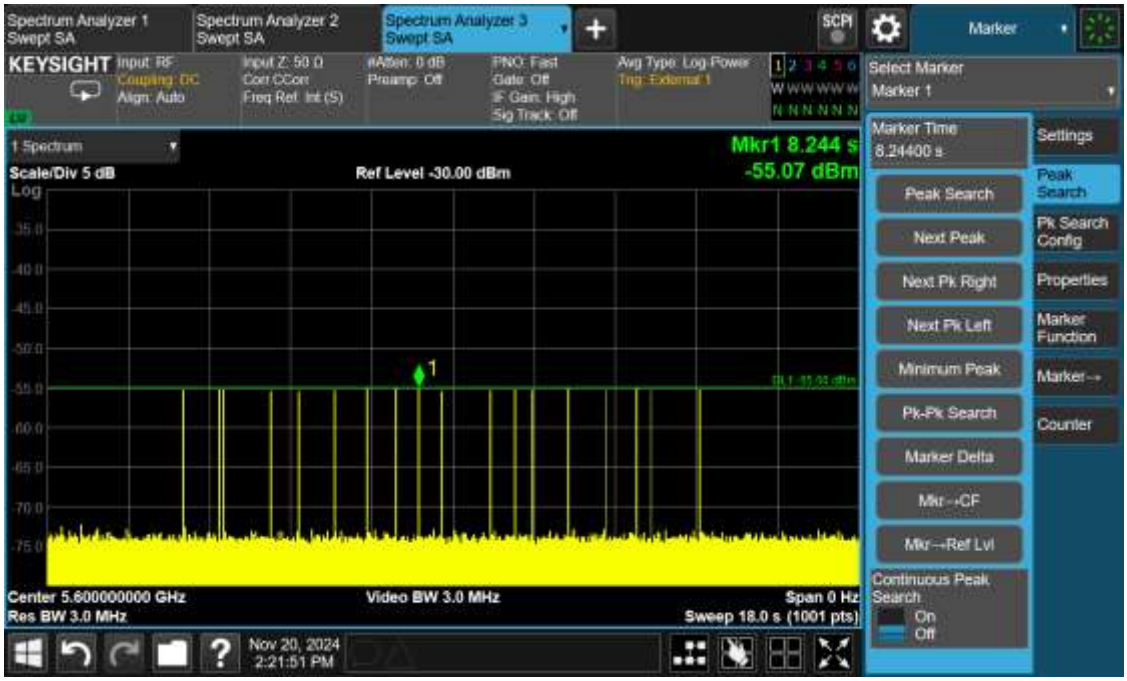

**Plot 3: Radar Level 2**



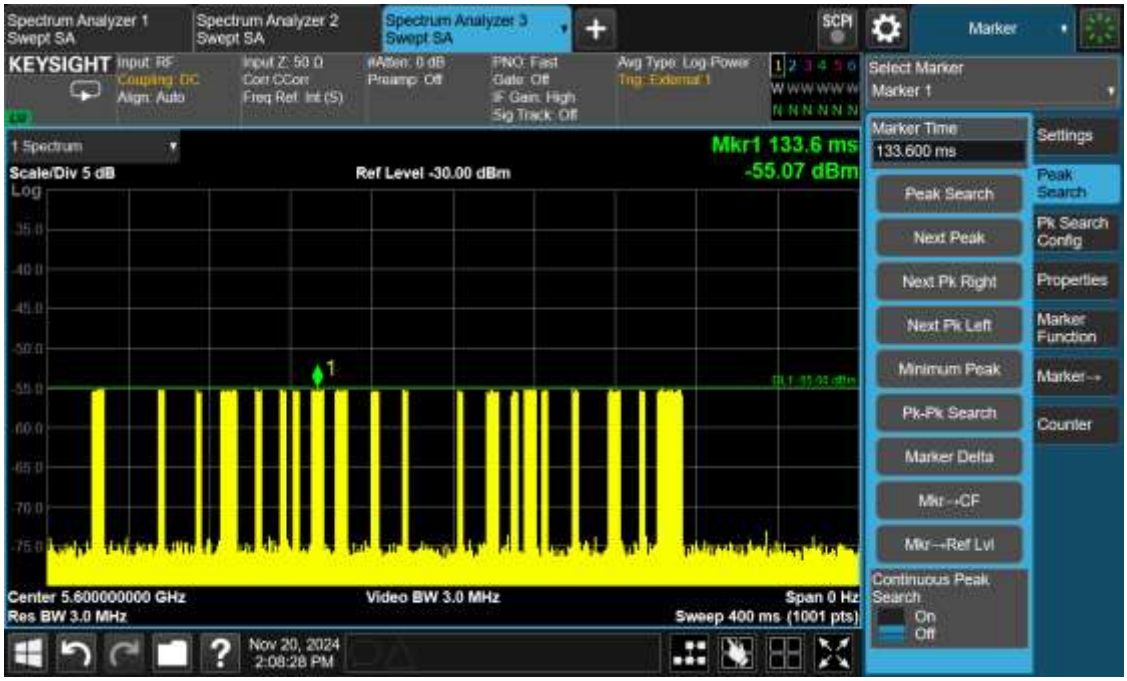

**Plot 4: Radar Level 3**




**Plot 5: Radar Level 4**




**Plot 6: Radar Level 5**




**Plot 7: Radar Level 6**

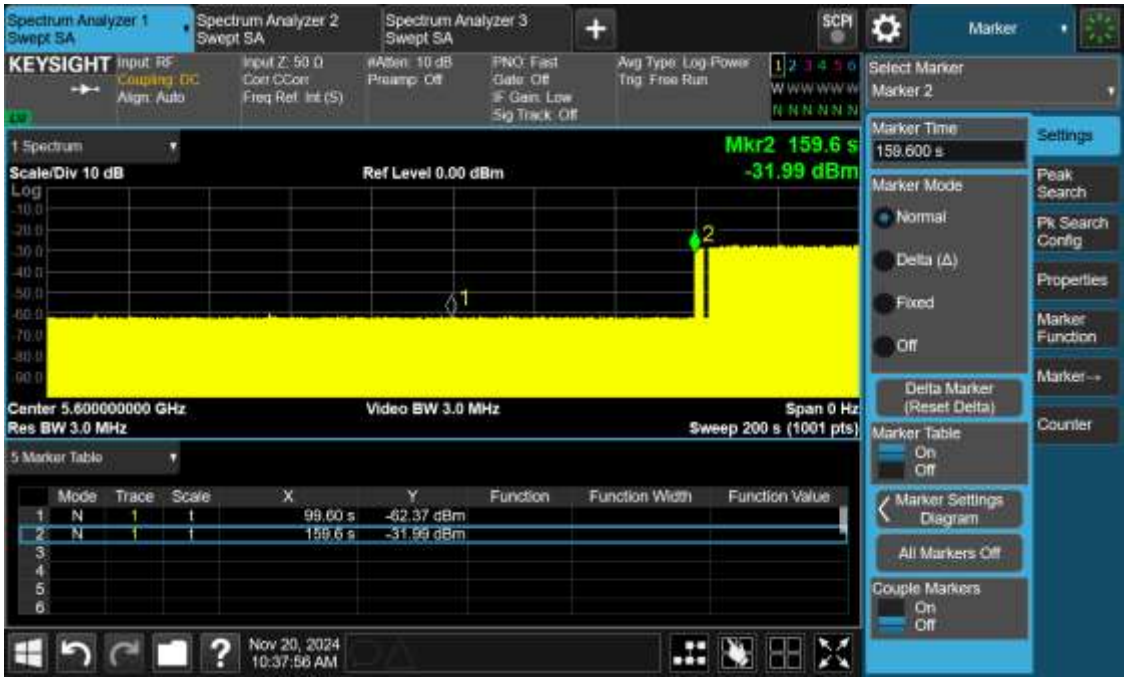
### 5.7.1 Channel Availability Check (CAC)

The EUT shall perform a CAC to ensure that there is no radar operating on the channel. After the power-up sequence, at-east 1 minute shall be monitored on the intended operating frequency. For initial CAC, the EUT does not emit beacon, control, or data signals on the test channel until the power-up sequence has been completed and the UNII device checks for radar waveforms for one minute on the test channel. This test does not use any radar waveforms. The markers in the associated plots indicate initial beacons.

For radar burst at the beginning of the CAC. To verify successful radar detection on the selected channel during a period equal to the beginning of the CAC time, visual indication on the EUT of successful detection of the radar burst will be recorded and reported. Observation of the radar burst is show on the associated plot to be within the beginning of the CAC time. Emissions will continue to be monitored for the remaining 300 seconds.

For radar burst at the end of the CAC. To verify successful radar detection on the selected channel during a period equal to the end of the CAC time, visual indication on the EUT of successful detection of the radar burst will be recorded and reported. Observation of the radar burst is show on the associated plot to be within the end of the CAC time. Emissions will continue to be monitored for the remaining 300 seconds.

A spectrum analyzer is used as a monitor to verify that the EUT has vacated the channel within the channel closing transmission time and channel move time, and does not transmit on a channel during the non-occupancy period after the detection and channel move.




**Plot 8: DUT Turn On**


**Plot 9: Beginning**


**Plot 10: End**

### 5.7.2 In-service Monitoring

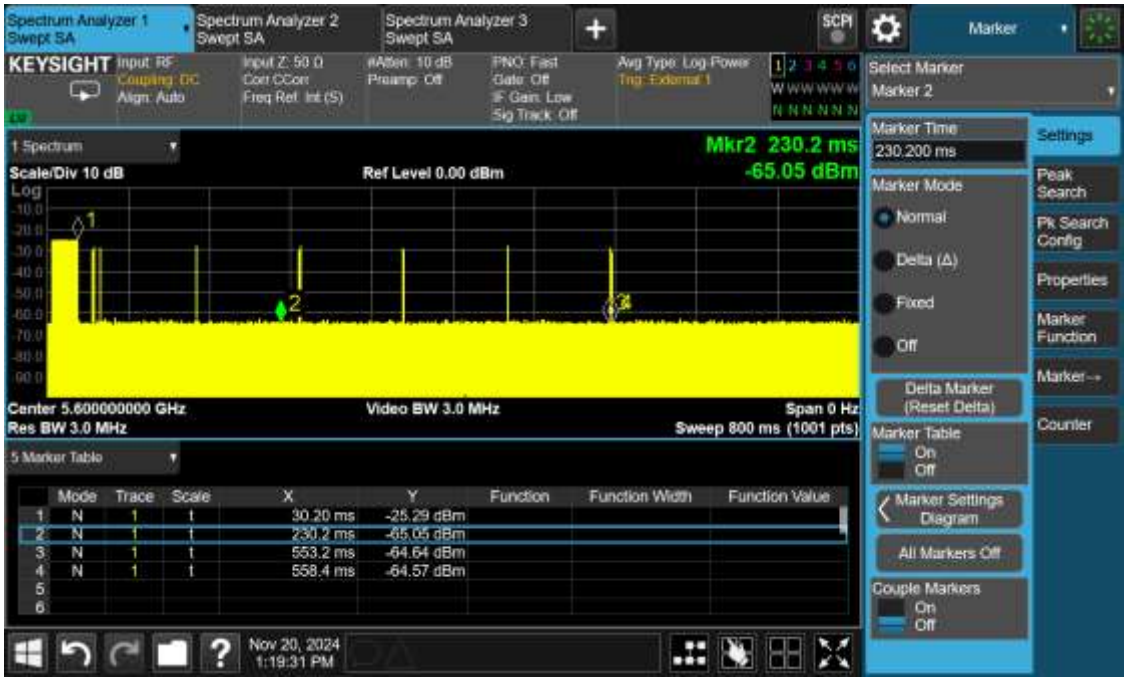
| | |
|---|---|
| Channel Move Time | 10 seconds |
| Channel Closing Transmission Time | 200 ms + aggregate of 60 ms over remaining 10 second period |
| Non-occupancy period | Minimum 30 minutes |

Verified during in-service monitoring: channel closing transmission time and channel move time. The transmissions were observed at the end of the radar burst on the operating channel for a duration of greater than 10 seconds. The transmissions were measured and recorded during the observation time. This was compared to the channel move time and channel closing time limits. One 12 second plot is reported for the short pulse radar type 0. A 60 ms plot is also provided to verify closing time for the aggregate transmission time starting from 200 ms after the end of the radar signal to the completion of the channel move.

During the 30 minutes observation time, the EUT did not make any transmissions on a channel after a radar signal was detected.

Please see plots below.

A spectrum analyzer is used as a monitor to verify that the EUT has vacated the channel within the channel closing transmission time and channel move time, and does not transmit on a channel during the non-occupancy period after the detection and channel move.




**Plot 11: Channel Close**


**Plot 12: Channel Move**


**Plot 13: Non-Occupancy**

### 5.7.3 DFS Detection Bandwidth

| EUT Frequency = 5600 MHz ; Bandwidth = 20 MHz | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Radar Frequency MHz | DFS Detection Trials (1 = Detection, 0 = No Detection) | | | | | | | | | | Detection Rate % |
| | Trials | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 5590 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5595 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 90 |
| 5600 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5605 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5610 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| Parameter | | | | | | | | | | | Value |
| U-NII 99% Transmission Power Bandwidth: | | | | | | | | | | | 19.25 |
| Lowest frequency with at least 90% detection ($F_L$): | | | | | | | | | | | 5590 |
| Highest frequency with at least 90% detection ($F_H$): | | | | | | | | | | | 5610 |
| Detection Bandwidth ($F_H$ - $F_L$): | | | | | | | | | | | 20 |
| **Detection Bandwidth percentage of 99% Transmission Power Bandwidth:** | | | | | | | | | | | 104% |

**20 MHz**

| EUT Frequency = 5590 MHz ; Bandwidth = 40 MHz | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Radar Frequency MHz | DFS Detection Trials (1 = Detection, 0 = No Detection) | | | | | | | | | | Detection Rate % |
| | Trials | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 5570 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5575 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5580 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5585 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5590 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5595 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5600 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 90 |
| 5605 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 90 |
| 5610 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| Parameter | | | | | | | | | | | Value |
| U-NII 99% Transmission Power Bandwidth: | | | | | | | | | | | 38.5 |
| Lowest frequency with at least 90% detection ($F_L$): | | | | | | | | | | | 5570 |
| Highest frequency with at least 90% detection ($F_H$): | | | | | | | | | | | 5610 |
| Detection Bandwidth ($F_H$ - $F_L$): | | | | | | | | | | | 40 |
| **Detection Bandwidth percentage of 99% Transmission Power Bandwidth:** | | | | | | | | | | | 104% |

**40 MHz**

| EUT Frequency = 5610 MHz ; Bandwidth = 80 MHz | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Radar Frequency MHz | DFS Detection Trials (1 = Detection, 0 = No Detection) | | | | | | | | | | Detection Rate % |
| | Trials | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 5570 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5575 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5580 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 90 |
| 5585 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5590 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5595 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5600 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5605 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5610 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 90 |
| 5615 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5620 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5625 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5630 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5635 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5640 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5645 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5650 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| Parameter | | | | | | | | | | | Value |
| U-NII 99% Transmission Power Bandwidth: | | | | | | | | | | | 78 |
| Lowest frequency with at least 90% detection ($F_L$): | | | | | | | | | | | 5570 |
| Highest frequency with at least 90% detection ($F_H$): | | | | | | | | | | | 5650 |
| Detection Bandwidth ($F_H$ - $F_L$): | | | | | | | | | | | 80 |
| **Detection Bandwidth percentage of 99% Transmission Power Bandwidth:** | | | | | | | | | | | 103% |

**80 MHz**

| EUT Frequency = 5570 MHz ; Bandwidth = 160 MHz | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Radar Frequency MHz | DFS Detection Trials (1 = Detection, 0 = No Detection) | | | | | | | | | | Detection Rate % |
| | Trials | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 5490 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 90 |
| 5495 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5500 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 90 |
| 5505 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 90 |
| 5510 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 90 |
| 5515 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 90 |
| 5520 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5525 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5530 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5535 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 90 |
| 5540 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 90 |
| 5545 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 90 |
| 5550 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 90 |
| 5555 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5560 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 90 |
| 5565 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5570 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 90 |
| 5575 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5580 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5585 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5590 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5595 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5600 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 90 |
| 5605 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5610 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5615 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 90 |
| 5620 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 90 |
| 5625 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5630 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5635 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5640 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5645 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 90 |
| 5650 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| Parameter | | | | | | | | | | | Value |
| U-NII 99% Transmission Power Bandwidth: | | | | | | | | | | | 157 |
| Lowest frequency with at least 90% detection ($F_L$): | | | | | | | | | | | 5490 |
| Highest frequency with at least 90% detection ($F_H$): | | | | | | | | | | | 5650 |
| Detection Bandwidth ($F_H$ - $F_L$): | | | | | | | | | | | 160 |
| **Detection Bandwidth percentage of 99% Transmission Power Bandwidth:** | | | | | | | | | | | 102% |

**160 MHz**

### 5.7.4 Detection Probability

For statistical performance check. Demonstrating a minimum channel loading of approximately 17% or greater of the test. Observe the transmissions of the EUT at the end of the burst on the operating channel for duration greater than 10 seconds for short pulse radar type 1-4 and 6 to ensure detection occurs. Then observe the transmissions of the EUT at the end of the burst on the operating channel for duration greater than 22 seconds for long pulse radar type 5 to ensure detection occurs. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.
Please see data below.

| Radar Type | Min successful detection (%) | Minimum Trials |
|---|---|---|
| 1 | 60 | 30 |
| 2 | 60 | 30 |
| 3 | 60 | 30 |
| 4 | 60 | 30 |
| Types 1 - 4 | 80 | 120 |
| 5 | 80 | 30 |
| 6 | 70 | 30 |

**20 MHz**

| Summary | | | |
|---|---|---|---|
| **Type** | **Detections** | **Trials** | **Detection Probability** |
| Type 1 | 24 | 30 | 80% |
| Type 2 | 26 | 30 | 87% |
| Type 3 | 23 | 30 | 77% |
| Type 4 | 24 | 30 | 80% |
| Type 5 | 30 | 30 | 100% |
| Type 6 | 30 | 30 | 100% |
| Aggregate 1-4 | 97 | 120 | 81% |

**Summary**

| RADAR TYPE 1 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| Trial # | Number of Pulses per Burst | Pulse Width (µsec) | PRI (µs) | Detection (yes/no) |
| 1 | 20 | 1 | 2755 | y |
| 2 | 96 | 1 | 551 | y |
| 3 | 27 | 1 | 2020 | y |
| 4 | 24 | 1 | 2221 | y |
| 5 | 23 | 1 | 2350 | y |
| 6 | 65 | 1 | 816 | y |
| 7 | 19 | 1 | 2793 | y |
| 8 | 48 | 1 | 1108 | n |
| 9 | 25 | 1 | 2114 | n |
| 10 | 20 | 1 | 2733 | y |
| 11 | 20 | 1 | 2697 | y |
| 12 | 37 | 1 | 1450 | y |
| 13 | 36 | 1 | 1484 | n |
| 14 | 71 | 1 | 743 | y |
| 15 | 18 | 1 | 3029 | y |
| 16 | 52 | 1 | 1033 | y |
| 17 | 18 | 1 | 2988 | n |
| 18 | 53 | 1 | 1010 | y |
| 19 | 93 | 1 | 569 | y |
| 20 | 24 | 1 | 2225 | y |
| 21 | 39 | 1 | 1356 | y |
| 22 | 24 | 1 | 2255 | y |
| 23 | 35 | 1 | 1521 | n |
| 24 | 79 | 1 | 668 | y |
| 25 | 21 | 1 | 2619 | y |
| 26 | 27 | 1 | 1987 | y |
| 27 | 34 | 1 | 1571 | y |
| 28 | 18 | 1 | 2965 | y |
| 29 | 18 | 1 | 3065 | n |
| 30 | 38 | 1 | 1400 | y |
| | | | | 24/30: 80% |

**Radar Type 1;**

| RADAR TYPE 2 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| Trial # | Number of Pulses per Burst | Pulse Width (µsec) | PRI (µs) | Detection (yes/no) |
| 1 | 24 | 2.9 | 190 | y |
| 2 | 23 | 1 | 208 | y |
| 3 | 25 | 1.5 | 163 | y |
| 4 | 25 | 4.8 | 207 | y |
| 5 | 26 | 2.1 | 174 | y |
| 6 | 26 | 4.4 | 153 | n |
| 7 | 24 | 1 | 160 | y |
| 8 | 25 | 1.5 | 193 | y |
| 9 | 29 | 3.7 | 168 | y |
| 10 | 25 | 3.6 | 168 | y |
| 11 | 25 | 1.8 | 168 | y |
| 12 | 28 | 2.3 | 185 | y |
| 13 | 29 | 3 | 199 | y |
| 14 | 27 | 1.2 | 179 | y |
| 15 | 24 | 1.5 | 208 | n |
| 16 | 26 | 3.2 | 198 | y |
| 17 | 23 | 1.9 | 210 | y |
| 18 | 26 | 2.3 | 190 | y |
| 19 | 25 | 1.4 | 223 | y |
| 20 | 24 | 3.4 | 156 | y |
| 21 | 27 | 4.6 | 182 | y |
| 22 | 28 | 2.6 | 206 | y |
| 23 | 29 | 3.2 | 156 | y |
| 24 | 26 | 1 | 206 | y |
| 25 | 27 | 1.1 | 169 | y |
| 26 | 24 | 3.4 | 156 | y |
| 27 | 24 | 3.1 | 158 | n |
| 28 | 27 | 2.1 | 199 | y |
| 29 | 25 | 3.2 | 154 | n |
| 30 | 29 | 3.9 | 164 | y |
| | | | | 26/30: 86.7% |

**Radar Type 2;**

| RADAR TYPE 3 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| Trial # | Number of Pulses per Burst | Pulse Width (µsec) | PRI (µs) | Detection (yes/no) |
| 1 | 17 | 9.3 | 360 | y |
| 2 | 18 | 9.3 | 221 | y |
| 3 | 18 | 10 | 464 | n |
| 4 | 17 | 8 | 398 | y |
| 5 | 17 | 7 | 467 | y |
| 6 | 16 | 6.6 | 293 | y |
| 7 | 17 | 7.1 | 392 | y |
| 8 | 18 | 8.7 | 297 | y |
| 9 | 16 | 9.1 | 390 | y |
| 10 | 17 | 9.5 | 404 | n |
| 11 | 17 | 9.6 | 301 | y |
| 12 | 16 | 8.8 | 427 | y |
| 13 | 17 | 6 | 410 | n |
| 14 | 17 | 6.8 | 238 | y |
| 15 | 17 | 7.9 | 276 | y |
| 16 | 16 | 9.1 | 424 | y |
| 17 | 18 | 8.1 | 412 | n |
| 18 | 17 | 7.3 | 251 | n |
| 19 | 18 | 8.9 | 322 | n |
| 20 | 17 | 7.6 | 303 | y |
| 21 | 17 | 8.3 | 239 | y |
| 22 | 17 | 8.4 | 363 | y |
| 23 | 16 | 6.6 | 419 | y |
| 24 | 18 | 7.5 | 343 | n |
| 25 | 18 | 8.1 | 221 | y |
| 26 | 17 | 8 | 312 | y |
| 27 | 17 | 7.3 | 296 | y |
| 28 | 18 | 6.1 | 348 | y |
| 29 | 16 | 8.2 | 436 | y |
| 30 | 18 | 6.3 | 448 | y |
| | | | | 23/30: 76.7% |

**Radar Type 3;**

| RADAR TYPE 4 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| Trial # | Number of Pulses per Burst | Pulse Width (µsec) | PRI (µs) | Detection (yes/no) |
| 1 | 13 | 16.6 | 235 | y |
| 2 | 12 | 11.6 | 324 | n |
| 3 | 14 | 17.3 | 431 | y |
| 4 | 14 | 20 | 251 | y |
| 5 | 15 | 13.2 | 347 | y |
| 6 | 16 | 11 | 455 | y |
| 7 | 13 | 19 | 347 | n |
| 8 | 16 | 11.9 | 482 | y |
| 9 | 13 | 11 | 227 | y |
| 10 | 12 | 15.2 | 490 | y |
| 11 | 13 | 15 | 325 | n |
| 12 | 12 | 15.2 | 311 | y |
| 13 | 13 | 12.4 | 489 | y |
| 14 | 12 | 14.2 | 374 | n |
| 15 | 16 | 15.4 | 466 | y |
| 16 | 14 | 13.5 | 454 | y |
| 17 | 12 | 13.2 | 252 | y |
| 18 | 14 | 17.7 | 375 | n |
| 19 | 15 | 11.3 | 375 | y |
| 20 | 13 | 11.7 | 467 | y |
| 21 | 15 | 16.5 | 422 | y |
| 22 | 16 | 17.5 | 422 | y |
| 23 | 14 | 18.5 | 474 | y |
| 24 | 13 | 14.7 | 289 | y |
| 25 | 16 | 12.6 | 257 | y |
| 26 | 15 | 19 | 202 | y |
| 27 | 15 | 13.9 | 367 | y |
| 28 | 16 | 12.7 | 366 | y |
| 29 | 15 | 18.1 | 425 | y |
| 30 | 16 | 13.7 | 282 | n |
| | | | | 24/30: 80% |

**Radar Type 4;**

| TYPE 5 | Rohde & Schwarz K350 Pulse Sequencer DFS | | | |
|---|---|---|---|---|
| Trial # | Detection (yes/no) | Chirp Width (MHz) | Subset | Fc |
| 1 | y | 13 | 1 | 5500 |
| 2 | y | 9 | 1 | 5500 |
| 3 | y | 18 | 1 | 5500 |
| 4 | y | 7 | 1 | 5500 |
| 5 | y | 14 | 1 | 5500 |
| 6 | y | 20 | 1 | 5500 |
| 7 | y | 18 | 1 | 5500 |
| 8 | y | 8 | 1 | 5500 |
| 9 | y | 20 | 1 | 5500 |
| 10 | y | 10 | 1 | 5500 |
| 11 | y | 19 | 2 | 5498.6 |
| 12 | y | 14 | 2 | 5496.6 |
| 13 | y | 16 | 2 | 5497.4 |
| 14 | y | 14 | 2 | 5496.6 |
| 15 | y | 9 | 2 | 5494.6 |
| 16 | y | 14 | 2 | 5496.6 |
| 17 | y | 11 | 2 | 5495.4 |
| 18 | y | 9 | 2 | 5494.6 |
| 19 | y | 11 | 2 | 5495.4 |
| 20 | y | 13 | 2 | 5496.2 |
| 21 | y | 19 | 3 | 5501.4 |
| 22 | y | 12 | 3 | 5504.2 |
| 23 | y | 8 | 3 | 5505.8 |
| 24 | y | 18 | 3 | 5501.8 |
| 25 | y | 19 | 3 | 5501.4 |
| 26 | y | 20 | 3 | 5501 |
| 27 | y | 7 | 3 | 5506.2 |
| 28 | y | 20 | 3 | 5501 |
| 29 | y | 17 | 3 | 5502.2 |
| 30 | y | 5 | 3 | 5507 |

**Radar Type 5;**

| TYPE 6 S | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|
| **Trial #** | **Detection (yes/no)** |
| 1 | y |
| 2 | y |
| 3 | y |
| 4 | y |
| 5 | y |
| 6 | y |
| 7 | y |
| 8 | y |
| 9 | y |
| 10 | y |
| 11 | y |
| 12 | y |
| 13 | y |
| 14 | y |
| 15 | y |
| 16 | y |
| 17 | y |
| 18 | y |
| 19 | y |
| 20 | y |
| 21 | y |
| 22 | y |
| 23 | y |
| 24 | y |
| 25 | y |
| 26 | y |
| 27 | y |
| 28 | y |
| 29 | y |
| 30 | y |
| | 30/30: 100% |

**Radar Type 6]**

**40 MHz**

| Summary | | | |
|---|---|---|---|
| **Type** | **Detections** | **Trials** | **Detection Probability** |
| Type 1 | 27 | 30 | 90% |
| Type 2 | 23 | 30 | 77% |
| Type 3 | 25 | 30 | 83% |
| Type 4 | 23 | 30 | 77% |
| Type 5 | 30 | 30 | 100% |
| Type 6 | 30 | 30 | 100% |
| Aggregate 1-4 | 98 | 120 | 82% |

**Summary**

| RADAR TYPE 1 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| **Trial #** | **Number of Pulses per Burst** | **Pulse Width (µsec)** | **PRI (µs)** | **Detection (yes/no)** |
| 1 | 39 | 1 | 1352 | y |
| 2 | 44 | 1 | 1222 | y |
| 3 | 69 | 1 | 769 | y |
| 4 | 22 | 1 | 2409 | y |
| 5 | 18 | 1 | 3048 | n |
| 6 | 102 | 1 | 519 | y |
| 7 | 24 | 1 | 2203 | n |
| 8 | 19 | 1 | 2790 | y |
| 9 | 35 | 1 | 1519 | y |
| 10 | 39 | 1 | 1360 | y |
| 11 | 19 | 1 | 2882 | y |
| 12 | 30 | 1 | 1764 | y |
| 13 | 42 | 1 | 1268 | y |
| 14 | 42 | 1 | 1259 | y |
| 15 | 21 | 1 | 2608 | y |
| 16 | 25 | 1 | 2163 | y |
| 17 | 28 | 1 | 1946 | y |
| 18 | 24 | 1 | 2278 | n |
| 19 | 46 | 1 | 1151 | y |
| 20 | 26 | 1 | 2045 | y |
| 21 | 22 | 1 | 2443 | y |
| 22 | 38 | 1 | 1411 | y |
| 23 | 29 | 1 | 1838 | y |
| 24 | 26 | 1 | 2072 | y |
| 25 | 33 | 1 | 1625 | y |
| 26 | 18 | 1 | 3034 | y |
| 27 | 26 | 1 | 2069 | y |
| 28 | 71 | 1 | 745 | y |
| 29 | 22 | 1 | 2484 | y |
| 30 | 18 | 1 | 2949 | y |
| | | | | 27/30: 90% |

**Radar Type 1;**

| RADAR TYPE 2 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| **Trial #** | **Number of Pulses per Burst** | **Pulse Width (µsec)** | **PRI (µs)** | **Detection (yes/no)** |
| 1 | 28 | 3.8 | 166 | y |
| 2 | 29 | 2.2 | 208 | y |
| 3 | 25 | 3 | 176 | y |
| 4 | 29 | 3.9 | 229 | y |
| 5 | 25 | 1.2 | 180 | n |
| 6 | 28 | 2.7 | 173 | y |
| 7 | 25 | 4.3 | 210 | y |
| 8 | 28 | 2.5 | 215 | y |
| 9 | 28 | 3.4 | 155 | y |
| 10 | 23 | 1 | 161 | y |
| 11 | 29 | 1.8 | 204 | y |
| 12 | 27 | 3.3 | 167 | n |
| 13 | 26 | 4.8 | 165 | n |
| 14 | 25 | 4 | 167 | y |
| 15 | 28 | 2.9 | 222 | n |
| 16 | 25 | 5 | 201 | y |
| 17 | 26 | 5 | 157 | y |
| 18 | 25 | 1.7 | 227 | y |
| 19 | 25 | 2.9 | 207 | n |
| 20 | 25 | 2.5 | 190 | y |
| 21 | 24 | 1.8 | 219 | y |
| 22 | 27 | 4.6 | 210 | n |
| 23 | 25 | 2.3 | 217 | y |
| 24 | 25 | 4.5 | 199 | y |
| 25 | 24 | 2.6 | 169 | n |
| 26 | 27 | 3.4 | 177 | y |
| 27 | 28 | 4.1 | 167 | y |
| 28 | 29 | 4.9 | 191 | y |
| 29 | 26 | 2.9 | 183 | y |
| 30 | 25 | 2.5 | 164 | y |
| | | | | 23/30: 76.7% |

**Radar Type 2;**

| RADAR TYPE 3 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| **Trial #** | **Number of Pulses per Burst** | **Pulse Width (µsec)** | **PRI (µs)** | **Detection (yes/no)** |
| 1 | 18 | 6.4 | 262 | y |
| 2 | 18 | 7.3 | 268 | y |
| 3 | 17 | 6.3 | 326 | n |
| 4 | 17 | 7.3 | 291 | n |
| 5 | 18 | 7.7 | 418 | y |
| 6 | 18 | 8.8 | 493 | y |
| 7 | 17 | 7.2 | 322 | y |
| 8 | 17 | 7.1 | 332 | y |
| 9 | 17 | 7 | 342 | y |
| 10 | 18 | 8.1 | 376 | y |
| 11 | 17 | 6.6 | 476 | n |
| 12 | 17 | 8.2 | 232 | y |
| 13 | 17 | 8.9 | 232 | y |
| 14 | 16 | 7.1 | 406 | y |
| 15 | 17 | 9.7 | 217 | y |
| 16 | 16 | 7.4 | 344 | y |
| 17 | 16 | 6.9 | 398 | y |
| 18 | 17 | 8 | 418 | n |
| 19 | 17 | 9.9 | 376 | y |
| 20 | 18 | 9.8 | 486 | y |
| 21 | 17 | 7.3 | 275 | y |
| 22 | 17 | 6 | 239 | y |
| 23 | 17 | 8.6 | 264 | n |
| 24 | 17 | 9.4 | 495 | y |
| 25 | 16 | 9.8 | 353 | y |
| 26 | 17 | 7.1 | 477 | y |
| 27 | 17 | 6.9 | 358 | y |
| 28 | 18 | 6.9 | 294 | y |
| 29 | 17 | 9.3 | 252 | y |
| 30 | 18 | 8.5 | 484 | y |
| | | | | 25/30: 83.3% |

**Radar Type 3;**

| RADAR TYPE 4 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| **Trial #** | **Number of Pulses per Burst** | **Pulse Width (µsec)** | **PRI (µs)** | **Detection (yes/no)** |
| 1 | 15 | 11.3 | 397 | n |
| 2 | 15 | 19.5 | 463 | y |
| 3 | 14 | 12.8 | 437 | y |
| 4 | 14 | 17.5 | 472 | y |
| 5 | 13 | 17 | 399 | n |
| 6 | 15 | 11.5 | 388 | n |
| 7 | 15 | 13.9 | 381 | y |
| 8 | 14 | 18.6 | 278 | y |
| 9 | 15 | 15.7 | 333 | y |
| 10 | 13 | 11.7 | 449 | y |
| 11 | 14 | 11.8 | 406 | y |
| 12 | 16 | 18.5 | 289 | n |
| 13 | 12 | 16.3 | 277 | y |
| 14 | 13 | 13.7 | 327 | n |
| 15 | 16 | 18.9 | 200 | y |
| 16 | 12 | 18.5 | 418 | y |
| 17 | 16 | 14.2 | 234 | y |
| 18 | 13 | 12.4 | 321 | n |
| 19 | 16 | 14.9 | 496 | y |
| 20 | 13 | 12 | 432 | y |
| 21 | 15 | 20 | 308 | y |
| 22 | 13 | 16 | 444 | y |
| 23 | 14 | 16.3 | 499 | y |
| 24 | 15 | 17.2 | 228 | y |
| 25 | 15 | 12.5 | 267 | y |
| 26 | 13 | 16 | 279 | y |
| 27 | 15 | 16.8 | 273 | y |
| 28 | 16 | 16.1 | 371 | y |
| 29 | 16 | 16.7 | 395 | n |
| 30 | 14 | 13.3 | 274 | y |
| | | | | 23/30: 76.7% |

**Radar Type 4;**

| TYPE 5 | Rohde & Schwarz K350 Pulse Sequencer DFS | | | |
|---|---|---|---|---|
| Trial # | Detection (yes/no) | Chirp Width (MHz) | Subset | Fc |
| 1 | y | 12 | 1 | 5500 |
| 2 | y | 17 | 1 | 5500 |
| 3 | y | 6 | 1 | 5500 |
| 4 | y | 20 | 1 | 5500 |
| 5 | y | 12 | 1 | 5500 |
| 6 | y | 6 | 1 | 5500 |
| 7 | y | 17 | 1 | 5500 |
| 8 | y | 20 | 1 | 5500 |
| 9 | y | 9 | 1 | 5500 |
| 10 | y | 5 | 1 | 5500 |
| 11 | y | 12 | 2 | 5495.8 |
| 12 | y | 12 | 2 | 5495.8 |
| 13 | y | 19 | 2 | 5498.6 |
| 14 | y | 20 | 2 | 5499 |
| 15 | y | 13 | 2 | 5496.2 |
| 16 | y | 14 | 2 | 5496.6 |
| 17 | y | 20 | 2 | 5499 |
| 18 | y | 7 | 2 | 5493.8 |
| 19 | y | 15 | 2 | 5497 |
| 20 | y | 13 | 2 | 5496.2 |
| 21 | y | 7 | 3 | 5506.2 |
| 22 | y | 12 | 3 | 5504.2 |
| 23 | y | 9 | 3 | 5505.4 |
| 24 | y | 7 | 3 | 5506.2 |
| 25 | y | 18 | 3 | 5501.8 |
| 26 | y | 19 | 3 | 5501.4 |
| 27 | y | 11 | 3 | 5504.6 |
| 28 | y | 18 | 3 | 5501.8 |
| 29 | y | 5 | 3 | 5507 |
| 30 | y | 5 | 3 | 5507 |
| | 30/30: 100% | | | |

**Radar Type 5;**

| TYPE 6 S | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|
| **Trial #** | **Detection (yes/no)** |
| 1 | y |
| 2 | y |
| 3 | y |
| 4 | y |
| 5 | y |
| 6 | y |
| 7 | y |
| 8 | y |
| 9 | y |
| 10 | y |
| 11 | y |
| 12 | y |
| 13 | y |
| 14 | y |
| 15 | y |
| 16 | y |
| 17 | y |
| 18 | y |
| 19 | y |
| 20 | y |
| 21 | y |
| 22 | y |
| 23 | y |
| 24 | y |
| 25 | y |
| 26 | y |
| 27 | y |
| 28 | y |
| 29 | y |
| 30 | y |
| | 30/30: 100% |

**Radar Type 6]**

**80 MHz**

| Summary | | | |
|---|---|---|---|
| **Type** | **Detections** | **Trials** | **Detection Probability** |
| Type 1 | 28 | 30 | 93% |
| Type 2 | 24 | 30 | 80% |
| Type 3 | 27 | 30 | 90% |
| Type 4 | 26 | 30 | 87% |
| Type 5 | 30 | 30 | 100% |
| Type 6 | 30 | 30 | 100% |
| Aggregate 1-4 | 105 | 120 | 88% |

**Summary**

| RADAR TYPE 1 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| **Trial #** | **Number of Pulses per Burst** | **Pulse Width (µsec)** | **PRI (µs)** | **Detection (yes/no)** |
| 1 | 42 | 1 | 1280 | y |
| 2 | 37 | 1 | 1437 | y |
| 3 | 21 | 1 | 2547 | y |
| 4 | 38 | 1 | 1399 | y |
| 5 | 76 | 1 | 702 | y |
| 6 | 30 | 1 | 1768 | y |
| 7 | 23 | 1 | 2373 | n |
| 8 | 54 | 1 | 985 | y |
| 9 | 72 | 1 | 734 | y |
| 10 | 67 | 1 | 793 | y |
| 11 | 28 | 1 | 1940 | y |
| 12 | 27 | 1 | 1996 | y |
| 13 | 29 | 1 | 1822 | y |
| 14 | 34 | 1 | 1595 | y |
| 15 | 21 | 1 | 2596 | y |
| 16 | 84 | 1 | 632 | y |
| 17 | 30 | 1 | 1769 | y |
| 18 | 33 | 1 | 1622 | y |
| 19 | 80 | 1 | 663 | y |
| 20 | 61 | 1 | 867 | y |
| 21 | 20 | 1 | 2691 | y |
| 22 | 20 | 1 | 2756 | y |
| 23 | 18 | 1 | 2981 | y |
| 24 | 48 | 1 | 1121 | n |
| 25 | 84 | 1 | 630 | y |
| 26 | 41 | 1 | 1299 | y |
| 27 | 76 | 1 | 694 | y |
| 28 | 35 | 1 | 1543 | y |
| 29 | 23 | 1 | 2301 | y |
| 30 | 24 | 1 | 2284 | y |
| | | | | 28/30: 93.3% |

**Radar Type 1;**

| RADAR TYPE 2 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| **Trial #** | **Number of Pulses per Burst** | **Pulse Width (µsec)** | **PRI (µs)** | **Detection (yes/no)** |
| 1 | 26 | 3.1 | 151 | y |
| 2 | 25 | 1.9 | 225 | y |
| 3 | 26 | 5 | 229 | y |
| 4 | 23 | 1.6 | 210 | y |
| 5 | 28 | 1.3 | 165 | y |
| 6 | 24 | 3.9 | 227 | y |
| 7 | 24 | 4.9 | 226 | y |
| 8 | 24 | 2.3 | 178 | y |
| 9 | 27 | 2.9 | 162 | n |
| 10 | 27 | 1.7 | 158 | y |
| 11 | 28 | 4.3 | 176 | n |
| 12 | 29 | 4.4 | 170 | n |
| 13 | 25 | 3.2 | 189 | y |
| 14 | 29 | 4.3 | 170 | n |
| 15 | 25 | 4.6 | 166 | y |
| 16 | 26 | 1.4 | 203 | y |
| 17 | 26 | 2.5 | 200 | n |
| 18 | 24 | 1.5 | 152 | y |
| 19 | 26 | 4.4 | 172 | n |
| 20 | 26 | 4.8 | 212 | y |
| 21 | 25 | 4.6 | 177 | y |
| 22 | 29 | 4.3 | 216 | y |
| 23 | 28 | 3.4 | 219 | y |
| 24 | 23 | 2.3 | 160 | y |
| 25 | 25 | 3.1 | 181 | y |
| 26 | 25 | 4.4 | 192 | y |
| 27 | 26 | 4.3 | 202 | y |
| 28 | 24 | 2.7 | 165 | y |
| 29 | 28 | 1.4 | 222 | y |
| 30 | 23 | 2.7 | 211 | y |
| | | | | 24/30: 80% |

**Radar Type 2;**

| RADAR TYPE 3 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| **Trial #** | **Number of Pulses per Burst** | **Pulse Width (µsec)** | **PRI (µs)** | **Detection (yes/no)** |
| 1 | 17 | 9.4 | 321 | y |
| 2 | 17 | 9.6 | 239 | y |
| 3 | 17 | 7.3 | 468 | n |
| 4 | 17 | 9 | 482 | y |
| 5 | 17 | 6.4 | 202 | y |
| 6 | 17 | 7.5 | 466 | y |
| 7 | 17 | 7.5 | 458 | y |
| 8 | 17 | 7.8 | 251 | y |
| 9 | 17 | 7.2 | 303 | y |
| 10 | 17 | 9.8 | 292 | y |
| 11 | 18 | 7.8 | 415 | y |
| 12 | 18 | 9.3 | 275 | y |
| 13 | 18 | 8.3 | 336 | y |
| 14 | 18 | 8.5 | 277 | y |
| 15 | 17 | 7.9 | 242 | y |
| 16 | 17 | 8.3 | 325 | y |
| 17 | 17 | 6.4 | 486 | y |
| 18 | 17 | 9.6 | 279 | y |
| 19 | 18 | 7.2 | 387 | y |
| 20 | 17 | 6 | 267 | y |
| 21 | 18 | 9.1 | 324 | n |
| 22 | 17 | 9.8 | 289 | y |
| 23 | 16 | 6.4 | 379 | y |
| 24 | 17 | 9.8 | 231 | y |
| 25 | 17 | 9.6 | 218 | y |
| 26 | 17 | 7.4 | 214 | y |
| 27 | 16 | 9.2 | 393 | y |
| 28 | 17 | 9.5 | 470 | n |
| 29 | 17 | 9.6 | 288 | y |
| 30 | 17 | 9.9 | 315 | y |
| | | | | 27/30: 90% |

**Radar Type 3;**

| RADAR TYPE 4 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| **Trial #** | **Number of Pulses per Burst** | **Pulse Width (µsec)** | **PRI (µs)** | **Detection (yes/no)** |
| 1 | 12 | 20 | 481 | n |
| 2 | 14 | 11.1 | 291 | y |
| 3 | 13 | 11.5 | 212 | n |
| 4 | 14 | 13 | 331 | y |
| 5 | 13 | 13.1 | 202 | y |
| 6 | 16 | 20 | 289 | y |
| 7 | 14 | 18.9 | 476 | y |
| 8 | 14 | 12.9 | 365 | y |
| 9 | 13 | 14.4 | 293 | y |
| 10 | 13 | 15.3 | 346 | y |
| 11 | 15 | 15 | 494 | y |
| 12 | 15 | 14.7 | 338 | y |
| 13 | 13 | 17.7 | 421 | y |
| 14 | 15 | 15.8 | 301 | y |
| 15 | 13 | 19 | 450 | y |
| 16 | 15 | 13.2 | 386 | n |
| 17 | 15 | 16.8 | 315 | y |
| 18 | 13 | 19.5 | 315 | y |
| 19 | 12 | 14.2 | 315 | y |
| 20 | 14 | 15.8 | 310 | y |
| 21 | 12 | 17.9 | 227 | y |
| 22 | 14 | 14.2 | 495 | y |
| 23 | 13 | 18.5 | 458 | y |
| 24 | 14 | 16.2 | 240 | y |
| 25 | 15 | 15.4 | 394 | y |
| 26 | 12 | 19.5 | 447 | y |
| 27 | 15 | 19.7 | 236 | y |
| 28 | 14 | 17 | 369 | n |
| 29 | 13 | 18.8 | 443 | y |
| 30 | 14 | 11.4 | 235 | y |
| | | | | 26/30: 86.7% |

**Radar Type 4;**

| TYPE 5 | Rohde & Schw arz K350 Pulse Sequencer DFS | | | |
|---|---|---|---|---|
| Trial # | Detection (yes/no) | Chirp Width (MHz) | Subset | Fc |
| 1 | y | 17 | 1 | 5500 |
| 2 | y | 15 | 1 | 5500 |
| 3 | y | 17 | 1 | 5500 |
| 4 | y | 11 | 1 | 5500 |
| 5 | y | 9 | 1 | 5500 |
| 6 | y | 16 | 1 | 5500 |
| 7 | y | 17 | 1 | 5500 |
| 8 | y | 13 | 1 | 5500 |
| 9 | y | 8 | 1 | 5500 |
| 10 | y | 12 | 1 | 5500 |
| 11 | y | 9 | 2 | 5494.6 |
| 12 | y | 8 | 2 | 5494.2 |
| 13 | y | 8 | 2 | 5494.2 |
| 14 | y | 12 | 2 | 5495.8 |
| 15 | y | 19 | 2 | 5498.6 |
| 16 | y | 17 | 2 | 5497.8 |
| 17 | y | 6 | 2 | 5493.4 |
| 18 | y | 11 | 2 | 5495.4 |
| 19 | y | 10 | 2 | 5495 |
| 20 | y | 12 | 2 | 5495.8 |
| 21 | y | 6 | 3 | 5506.6 |
| 22 | y | 14 | 3 | 5503.4 |
| 23 | y | 7 | 3 | 5506.2 |
| 24 | y | 7 | 3 | 5506.2 |
| 25 | y | 12 | 3 | 5504.2 |
| 26 | y | 13 | 3 | 5503.8 |
| 27 | y | 13 | 3 | 5503.8 |
| 28 | y | 13 | 3 | 5503.8 |
| 29 | y | 8 | 3 | 5505.8 |
| 30 | y | 19 | 3 | 5501.4 |
| | 30/30: 100% | | | |

**Radar Type 5;**

| TYPE 6 S | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|
| **Trial #** | **Detection (yes/no)** |
| 1 | y |
| 2 | y |
| 3 | y |
| 4 | y |
| 5 | y |
| 6 | y |
| 7 | y |
| 8 | y |
| 9 | y |
| 10 | y |
| 11 | y |
| 12 | y |
| 13 | y |
| 14 | y |
| 15 | y |
| 16 | y |
| 17 | y |
| 18 | y |
| 19 | y |
| 20 | y |
| 21 | y |
| 22 | y |
| 23 | y |
| 24 | y |
| 25 | y |
| 26 | y |
| 27 | y |
| 28 | y |
| 29 | y |
| 30 | y |
| | 30/30: 100% |

**Radar Type 6]**

**160 MHz**

| Summary | | | |
|---|---|---|---|
| **Type** | **Detections** | **Trials** | **Detection Probability** |
| Type 1 | 21 | 30 | 70% |
| Type 2 | 26 | 30 | 87% |
| Type 3 | 25 | 30 | 83% |
| Type 4 | 24 | 30 | 80% |
| Type 5 | 29 | 30 | 97% |
| Type 6 | 30 | 30 | 100% |
| Aggregate 1-4 | 96 | 120 | 80% |

**Summary**

| RADAR TYPE 1 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| **Trial #** | **Number of Pulses per Burst** | **Pulse Width (µsec)** | **PRI (µs)** | **Detection (yes/no)** |
| 1 | 46 | 1 | 1153 | y |
| 2 | 20 | 1 | 2678 | y |
| 3 | 24 | 1 | 2260 | y |
| 4 | 96 | 1 | 549 | y |
| 5 | 55 | 1 | 964 | n |
| 6 | 26 | 1 | 2106 | y |
| 7 | 33 | 1 | 1646 | y |
| 8 | 19 | 1 | 2784 | y |
| 9 | 29 | 1 | 1844 | y |
| 10 | 31 | 1 | 1744 | n |
| 11 | 25 | 1 | 2151 | y |
| 12 | 41 | 1 | 1317 | n |
| 13 | 25 | 1 | 2168 | y |
| 14 | 25 | 1 | 2128 | y |
| 15 | 51 | 1 | 1043 | y |
| 16 | 63 | 1 | 839 | n |
| 17 | 22 | 1 | 2475 | y |
| 18 | 19 | 1 | 2791 | y |
| 19 | 19 | 1 | 2861 | y |
| 20 | 35 | 1 | 1516 | n |
| 21 | 84 | 1 | 634 | y |
| 22 | 20 | 1 | 2635 | y |
| 23 | 28 | 1 | 1924 | n |
| 24 | 39 | 1 | 1358 | y |
| 25 | 20 | 1 | 2729 | y |
| 26 | 62 | 1 | 861 | n |
| 27 | 18 | 1 | 2958 | n |
| 28 | 66 | 1 | 806 | y |
| 29 | 71 | 1 | 751 | y |
| 30 | 32 | 1 | 1664 | n |
| | | | | 21/30: 70% |

**Radar Type 1;**

| RADAR TYPE 2 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| **Trial #** | **Number of Pulses per Burst** | **Pulse Width (µsec)** | **PRI (µs)** | **Detection (yes/no)** |
| 1 | 25 | 4.3 | 180 | y |
| 2 | 24 | 2 | 223 | y |
| 3 | 24 | 2.2 | 176 | y |
| 4 | 23 | 3.5 | 167 | y |
| 5 | 26 | 2.3 | 211 | y |
| 6 | 23 | 2.3 | 190 | y |
| 7 | 29 | 3.7 | 180 | y |
| 8 | 29 | 3.4 | 229 | y |
| 9 | 26 | 4.7 | 226 | n |
| 10 | 24 | 3.9 | 178 | y |
| 11 | 23 | 3.5 | 211 | y |
| 12 | 26 | 1.6 | 180 | n |
| 13 | 28 | 2.2 | 208 | n |
| 14 | 28 | 4.5 | 151 | y |
| 15 | 23 | 1.6 | 230 | y |
| 16 | 23 | 3.4 | 219 | y |
| 17 | 24 | 4.5 | 156 | y |
| 18 | 25 | 4.2 | 163 | n |
| 19 | 26 | 2.7 | 190 | y |
| 20 | 26 | 4 | 229 | y |
| 21 | 29 | 4.3 | 152 | y |
| 22 | 24 | 4.1 | 194 | y |
| 23 | 25 | 4.2 | 204 | y |
| 24 | 27 | 2.4 | 215 | y |
| 25 | 24 | 5 | 162 | y |
| 26 | 25 | 1.2 | 174 | y |
| 27 | 27 | 2.3 | 203 | y |
| 28 | 24 | 4.6 | 189 | y |
| 29 | 28 | 4.7 | 165 | y |
| 30 | 25 | 2.1 | 226 | y |
| | | | | 26/30: 86.7% |

**Radar Type 2;**

| RADAR TYPE 3 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| **Trial #** | **Number of Pulses per Burst** | **Pulse Width (µsec)** | **PRI (µs)** | **Detection (yes/no)** |
| 1 | 17 | 7.5 | 367 | y |
| 2 | 16 | 7 | 353 | y |
| 3 | 16 | 9.5 | 259 | n |
| 4 | 17 | 9 | 476 | y |
| 5 | 17 | 7.9 | 265 | y |
| 6 | 16 | 6.1 | 248 | y |
| 7 | 16 | 8.4 | 378 | y |
| 8 | 17 | 7.7 | 425 | y |
| 9 | 17 | 9 | 288 | y |
| 10 | 18 | 6.1 | 402 | y |
| 11 | 17 | 9.5 | 331 | y |
| 12 | 17 | 8.4 | 228 | y |
| 13 | 16 | 8.5 | 321 | n |
| 14 | 18 | 10 | 488 | y |
| 15 | 17 | 9.1 | 473 | y |
| 16 | 17 | 7.9 | 485 | y |
| 17 | 18 | 7.3 | 299 | y |
| 18 | 16 | 8 | 452 | n |
| 19 | 16 | 9.1 | 307 | y |
| 20 | 17 | 7.3 | 225 | y |
| 21 | 16 | 6.7 | 383 | y |
| 22 | 18 | 6.5 | 318 | y |
| 23 | 18 | 6.7 | 441 | y |
| 24 | 17 | 7.1 | 426 | n |
| 25 | 17 | 10 | 400 | y |
| 26 | 16 | 8.9 | 231 | y |
| 27 | 18 | 8.7 | 325 | y |
| 28 | 18 | 8.2 | 369 | y |
| 29 | 17 | 9.5 | 262 | y |
| 30 | 16 | 6.3 | 412 | n |
| | | | | 25/30: 83.3% |

**Radar Type 3;**

| RADAR TYPE 4 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| **Trial #** | **Number of Pulses per Burst** | **Pulse Width (µsec)** | **PRI (µs)** | **Detection (yes/no)** |
| 1 | 14 | 15 | 328 | y |
| 2 | 15 | 18.6 | 492 | y |
| 3 | 15 | 18.4 | 267 | y |
| 4 | 16 | 13.7 | 408 | y |
| 5 | 15 | 12.4 | 356 | y |
| 6 | 14 | 12.7 | 396 | n |
| 7 | 16 | 14.3 | 415 | y |
| 8 | 14 | 16.1 | 220 | y |
| 9 | 12 | 11.4 | 377 | y |
| 10 | 13 | 15.7 | 211 | y |
| 11 | 14 | 16.1 | 248 | y |
| 12 | 14 | 14.7 | 251 | y |
| 13 | 16 | 11.6 | 295 | n |
| 14 | 16 | 13.2 | 304 | y |
| 15 | 13 | 16.8 | 255 | y |
| 16 | 14 | 16.4 | 481 | y |
| 17 | 13 | 16.5 | 379 | y |
| 18 | 14 | 16.2 | 212 | y |
| 19 | 14 | 12 | 465 | y |
| 20 | 16 | 14 | 226 | y |
| 21 | 13 | 18 | 389 | n |
| 22 | 13 | 17.9 | 489 | y |
| 23 | 13 | 14.6 | 494 | n |
| 24 | 12 | 11.9 | 348 | n |
| 25 | 13 | 19.4 | 443 | y |
| 26 | 13 | 13.6 | 400 | y |
| 27 | 14 | 18.9 | 449 | y |
| 28 | 13 | 18.1 | 430 | y |
| 29 | 15 | 19 | 234 | y |
| 30 | 14 | 14 | 234 | n |
| | | | | 24/30: 80% |

**Radar Type 4;**

| TYPE 5 | Rohde & Schw arz K350 Pulse Sequencer DFS | | | |
|---|---|---|---|---|
| Trial # | Detection (yes/no) | Chirp Width (MHz) | Subset | Fc |
| 1 | y | 8 | 1 | 5500 |
| 2 | y | 20 | 1 | 5500 |
| 3 | y | 20 | 1 | 5500 |
| 4 | y | 6 | 1 | 5500 |
| 5 | y | 19 | 1 | 5500 |
| 6 | y | 20 | 1 | 5500 |
| 7 | y | 8 | 1 | 5500 |
| 8 | y | 20 | 1 | 5500 |
| 9 | y | 5 | 1 | 5500 |
| 10 | y | 7 | 1 | 5500 |
| 11 | y | 20 | 2 | 5499 |
| 12 | y | 10 | 2 | 5495 |
| 13 | y | 17 | 2 | 5497.8 |
| 14 | y | 16 | 2 | 5497.4 |
| 15 | y | 14 | 2 | 5496.6 |
| 16 | y | 15 | 2 | 5497 |
| 17 | y | 19 | 2 | 5498.6 |
| 18 | y | 5 | 2 | 5493 |
| 19 | y | 19 | 2 | 5498.6 |
| 20 | y | 9 | 2 | 5494.6 |
| 21 | n | 16 | 3 | 5502.6 |
| 22 | y | 20 | 3 | 5501 |
| 23 | y | 18 | 3 | 5501.8 |
| 24 | y | 6 | 3 | 5506.6 |
| 25 | y | 17 | 3 | 5502.2 |
| 26 | y | 18 | 3 | 5501.8 |
| 27 | y | 15 | 3 | 5503 |
| 28 | y | 11 | 3 | 5504.6 |
| 29 | y | 10 | 3 | 5505 |
| 30 | y | 10 | 3 | 5505 |
| | 29/30: 96.7% | | | |

**Radar Type 5;**

| TYPE 6 S | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|
| **Trial #** | **Detection (yes/no)** |
| 1 | y |
| 2 | y |
| 3 | y |
| 4 | y |
| 5 | y |
| 6 | y |
| 7 | y |
| 8 | y |
| 9 | y |
| 10 | y |
| 11 | y |
| 12 | y |
| 13 | y |
| 14 | y |
| 15 | y |
| 16 | y |
| 17 | y |
| 18 | y |
| 19 | y |
| 20 | y |
| 21 | y |
| 22 | y |
| 23 | y |
| 24 | y |
| 25 | y |
| 26 | y |
| 27 | y |
| 28 | y |
| 29 | y |
| 30 | y |
| | 30/30: 100% |

**Radar Type 6]**

-- End of Test Report --