



FCC TEST REPORT

FCC ID:2AWIZHL4BX3VF

Report Number.....: ZKT-240409L3555

Date of Test: March 11, 2024 to April 22, 2024

Date of issue: April 22, 2024

Total number of pages: 64

Test Result: PASS

Testing Laboratory: **Shenzhen ZKT Technology Co., Ltd.**

Address: 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name: **Fibrain Sp. z o.o.**

Address: Poland, Zaczernie 190F, 36-062

Manufacturer's name: **Fibrain Sp. z o.o.**

Address: Poland, Zaczernie 190F, 36-062

Test specification:

FCC CFR Title 47 Part 15 Subpart E Section 15.407

Standard: ANSI C63.10:2013
KDB 905462 D02v02, KDB 905462 D04v01

Test procedure: /

Non-standard test method: N/A

Test Report Form No: /

Test Report Form(s) Originator: **Shenzhen ZKT Technology Co., Ltd.**

Master TRF: Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name: **HGU**

Trademark: HALNY

Model/Type reference: HL-4BX3V-F, HLE-4BX3V-F

Ratings: Input: DC12V == 1.5A

**Testing procedure and testing location:**

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

Address: 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China

Tested by (name + signature): Jim Liu

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Approved (name + signature).....: Lake Xie



TABLE OF CONTENT

| Test Report Declaration | Page |
|--|------|
| 1. VERSION | 4 |
| 2. TEST SUMMARY | 5 |
| 3. MEASUREMENT UNCERTAINTY | 6 |
| 4. PRODUCT INFORMATION AND TEST SETUP..... | 7 |
| 4.1 Product Information | 7 |
| 4.2 Test Setup Configuration | 7 |
| 4.3 Support Equipment..... | 7 |
| 4.4 DFS Band Carrier Frequencies Operation | 8 |
| 4.5 Test Mode | 8 |
| 4.6 Test setup..... | 9 |
| 4.7 Conduted Output Power and EIRP: | 9 |
| 5. TEST FACILITY AND TEST INSTRUMENT USED..... | 11 |
| 5.1 Test Facility..... | 11 |
| 5.2 Test Instrument Used..... | 11 |
| 6. DFS DETECTION THRESHOLDS AND RADAR TEST WAVEFORMS..... | 12 |
| 6.1 Applicability of DFS Requirements | 12 |
| 6.2 DFS Detection Thresholds and Response Requirement | 12 |
| 6.3 Radar Test Waveforms | 13 |
| 7. TEST RESULT | 17 |
| 7.1 Cablibration Result..... | 17 |
| 7.2 Channel Loading Test Result..... | 39 |
| 7.3 NII Detection Bandwidth Measurement | 41 |
| 7.4 Initial Channel Availability Check Time Measurement | 41 |
| 7.5 Radar Burst at the Beginning of the Channel Availability Check Time Measurement | 42 |
| 7.6 Radar Burst at the End of the Channel Availability Check Time Measurement | 42 |
| 7.7 In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period Measurement | 43 |
| 7.8 Performance Check Measurement | 44 |
| 8. TEST SETUP PHOTOGRAPH | 45 |
| 9. PHOTOS OF THE EUT | 45 |
| APPENDIX | 46 |
| 1. CAC Initial..... | 46 |
| 2. CAC Begin | 48 |
| 3. CAC End | 50 |
| 4. Shutdown&Non-Occupancy | 52 |
| 5. Detection Bandwidth | 55 |
| 6. Statistical Performance Check..... | 57 |



1. VERSION

| Report No. | Issue Date | Description | Approved |
|-----------------|----------------|-------------|----------|
| ZKT-240409L3555 | April 22, 2024 | Original | Lake Xie |



2. TEST SUMMARY

The Product has been tested according to the following specifications:

| Test Item | Test Requirement | Test method | Result |
|--|---|----------------|--------|
| DFS Detection Threshold | 47 CFR Part 15 Subpart E Section 15.407 (h)(2) | KDB 905462 D02 | PASS |
| Channel Availability Check Time | 47 CFR Part 15 Subpart E Section 15.407 (h)(2)(ii) | KDB 905462 D02 | PASS |
| U-NII Detection Bandwidth | 47 CFR Part 15 Subpart E Section 15.407 (h)(2) | KDB 905462 D02 | PASS |
| In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time | 47 CFR Part 15 Subpart E Section 15.407 (h)(2) | KDB 905462 D02 | PASS |
| Channel Closing Transmission Time | 47 CFR Part 15 Subpart E Section 15.407 (h)(2)(iii) | KDB 905462 D02 | PASS |
| Channel Move Time | 47 CFR Part 15 Subpart E Section 15.407 (h)(2)(iii) | KDB 905462 D02 | PASS |
| Non-Occupancy Period | 47 CFR Part 15 Subpart E Section 15.407 (h)(2)(iv) | KDB 905462 D02 | PASS |

Remark:

The tested sample and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application.



3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| No. | Item | Uncertainty |
|-----|---|----------------------------|
| 1 | Occupancy bandwidth | $U=\pm 54.3\text{Hz}$ |
| 2 | Adjacent channel power | $U=\pm 1.3\text{dB}$ |
| 3 | Conducted Adjacent channel power | $U=\pm 1.38\text{dB}$ |
| 4 | Conducted output power Above 1G | $U=\pm 1.0\text{dB}$ |
| 5 | Conducted output power below 1G | $U=\pm 0.9\text{dB}$ |
| 6 | Power Spectral Density, Conduction | $U=\pm 1.0\text{dB}$ |
| 7 | Conduction spurious emissions | $U=\pm 2.8\text{dB}$ |
| 8 | Out of band emission | $U=\pm 54\text{Hz}$ |
| 9 | 3m chamber Radiated spurious emission(30MHz-1GHz) | $U=\pm 4.3\text{dB}$ |
| 10 | 3m chamber Radiated spurious emission(1GHz-18GHz) | $U=\pm 4.5\text{dB}$ |
| 11 | humidity uncertainty | $U=\pm 5.3\%$ |
| 12 | Temperature uncertainty | $U=\pm 0.59^\circ\text{C}$ |
| 13 | Supply voltages | $U=\pm 3\%$ |
| 14 | Time | $U=\pm 5\%$ |



4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

| | |
|----------------------|---|
| Model(s): | HL-4BX3V-F, HLE-4BX3V-F |
| Sample No.: | Q240301024-1 |
| Model Description: | HGU |
| Wi-Fi Specification: | 802.11a/n/ac/ax |
| Operating Mode: | Master |
| Hardware Version: | 94V-0 |
| Software Version: | SecureCRT |
| Operation Frequency: | IEEE 802.11a/n/ac(20M): 5150MHz ~5250MHz/ 4 channel IEEE 802.11n/ac(40M): 5150MHz ~5250MHz/ 2 channel IEEE 802.11ac/ax(80M): 5150MHz ~5250MHz/ 1 channel IEEE 802.11a/n/ac(20M): 5250MHz ~5350 MHz/ 4 channel IEEE 802.11n/ac(40M): 5250MHz ~5350 MHz/ 2 channel IEEE 802.11ac/ax(80M): 5250MHz ~5350 MHz/ 1 channel IEEE 802.11a/n/ac(20M): 5470MHz ~5725 MHz/ 11 channel IEEE 802.11n/ac(40M): 5470MHz ~5725 MHz/ 5 channel IEEE 802.11ac/ax(80M): 5470MHz ~5725 MHz/ 3 channel IEEE 802.11a/n/ac(20M): 5725MHz ~5850MHz/ 5 channel IEEE 802.11n/ac(40M): 5725MHz ~5850MHz/ 2 channel IEEE 802.11ac/ax(80M): 5725MHz ~5850MHz/ 1 channel |
| Type of Modulation: | WiFi (5G):OFDM/OFDMA, DSSS, OFDM, CCK ANT1: 5.2G:4.34dBi ; 5.3G:4.52dBi ; 5.6G:5.19dBi ; 5.8G:3.62dBi ANT2: 5.2G:3.37dBi ; 5.3G:3.78dBi ; 5.6G:3.67dBi ; 5.8G:4.11dBi ANT3: 5.2G:4.20dBi ; 5.3G:3.21dBi ; 5.6G:3.97dBi ; 5.8G:4.45dBi MIMO:5.2G:3.99dBi ; 5.3G:3.87dBi; 5.6G:4.33dBi ; 5.8G:4.07dBi |
| Antenna Gain: | Note: According to KDB662911 D01 Multiple Transmitter Output v02r01, the MIMO antenna is increased to Direct gain=10 log $[(10^{G1/10}+10^{G2/10}+\dots+10^{GN/10})/N_{ANT}]$ dBi = 3.99dBi/3.78dBi/4.33dBi/4.07dBi. |
| Ratings: | Input: 12V 1.5A |

4.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

4.3 Support Equipment

| No. | Device Type | Brand | Model | Series No. | Power Cord |
|-----|-------------|--------|---------|------------|------------|
| 1. | PHONE | HUAWEI | P40 PRO | N/A | N/A |

Notes: 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



4.4 DFS Band Carrier Frequencies Operation

For 802.11a/n/ac/ax(20M-BW)

Operation in the 5250MHz ~5350 MHz band

| Channel | Frequency | Channel | Frequency |
|---|-----------|---------|-----------|
| 52 | 5260MHz | 60 | 5300MHz |
| 56 | 5280MHz | 64 | 5320MHz |
| Operation in the 5470MHz ~5725 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 100 | 5500MHz | 124 | 5620 MHz |
| 104 | 5520MHz | 128 | 5640 MHz |
| 108 | 5540MHz | 132 | 5660 MHz |
| 112 | 5560MHz | 136 | 5680MHz |
| 116 | 5580MHz | 140 | 5700MHz |
| 120 | 5600 MHz | | |

For 802.11n/ac/ax(40M-BW)

Operation in the 5250MHz ~5350 MHz band

| Channel | Frequency | Channel | Frequency |
|---|-----------|---------|-----------|
| 54 | 5270MHz | 62 | 5310MHz |
| Operation in the 5470MHz ~5725 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 102 | 5510MHz | 126 | 5630MHz |
| 110 | 5550MHz | 134 | 5670MHz |
| 118 | 5590MHz | | |

For 802.11ac/ax(80M)

Operation in the 5250MHz ~5350 MHz band

| Channel | Frequency | Channel | Frequency |
|---|-----------|---------|-----------|
| 58 | 5290MHz | NA | NA |
| Operation in the 5470MHz ~5725 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 106 | 5530MHz | 122 | 5610MHz |

4.5 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

| 802.11a/n/ac/ax(20M) | 5250MHz ~5350 MHz | Channel 52 | Channel 56 | Channel 64 |
|----------------------|-------------------|-------------|-------------|-------------|
| | | 5260MHz | 5280MHz | 5320MHz |
| 802.11n/ac/ax(40M) | 5250MHz ~5350 MHz | Channel 54 | N/A | Channel 62 |
| | | 5270MHz | N/A | 5310MHz |
| 802.11ac/ax(80M) | 5250MHz ~5350 MHz | N/A | Channel 58 | N/A |
| | | N/A | 5290MHz | N/A |
| 802.11a/n/ac/ax(20M) | 5470MHz ~5725 MHz | Channel 100 | Channel 116 | Channel 140 |
| | | 5500MHz | 5580MHz | 5700MHz |
| 802.11n/ac/ax(40M) | 5470MHz ~5725 MHz | Channel 102 | Channel 118 | Channel 134 |
| | | 5510MHz | 5590MHz | 5670MHz |
| 802.11ac/ax(80M) | 5470MHz ~5725 MHz | Channel 106 | N/A | Channel 122 |
| | | 5530MHz | N/A | 5610MHz |

For the 5250-5350MHz, 5470-5725 MHz bands, the Master device provides, on aggregate, uniform loading

Shenzhen ZKT Technology Co., Ltd.

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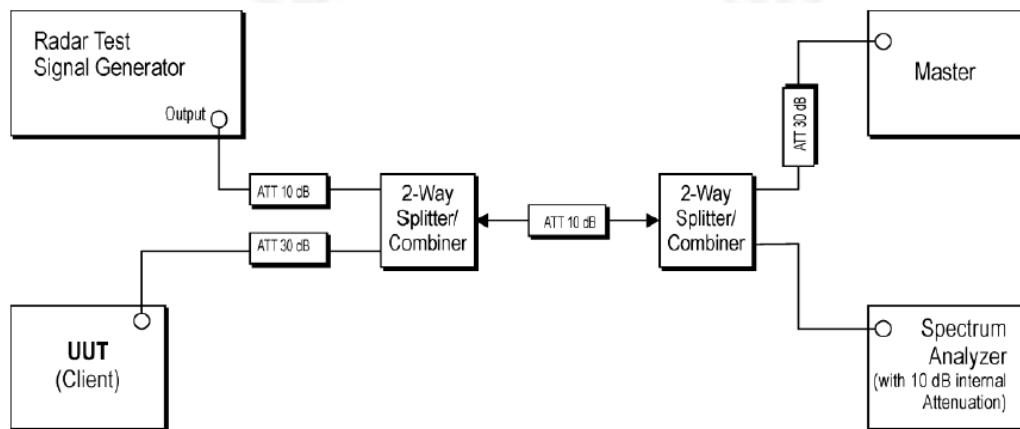


of the spectrum across all devices by selecting an operating channel among the available channels using a random algorithm.

The test report only records the worst mode and channel.

| | | |
|---------------|-------------------|-----------------------|
| 802.11a(20M) | 5250MHz ~5350 MHz | Channel 52 5260MHz |
| 802.11n(40M) | 5250MHz ~5350 MHz | Channel 54 5270MHz |
| 802.11ac(80M) | 5250MHz ~5350 MHz | Channel 58 5290MHz |

4.6 Test setup



4.7 Conducted Output Power and EIRP:

| Modulation | Frequency (MHz) | Conducted Power(dBm) | | | Antenna Gain (dBi) | | | Total Maximum EIRP Power (mW) |
|-----------------|--------------------|----------------------|-------|-------|-----------------------|------|------|--|
| | | ANT1 | ANT2 | ANT3 | ANT1 | ANT2 | ANT3 | |
| 802.11a | 5260.00 | 13.65 | 16.82 | 17.23 | 4.52 | 3.78 | 3.21 | 114.815 |
| 802.11a | 5300.00 | 13.59 | 17.22 | 17.35 | 4.52 | 3.78 | 3.21 | 125.893 |
| 802.11a | 5320.00 | 13.51 | 17.04 | 17.17 | 4.52 | 3.78 | 3.21 | 120.781 |
| 802.11n(HT20) | 5260.00 | 10.09 | 13.38 | 13.76 | 4.52 | 3.78 | 3.21 | 130.68 |
| 802.11n(HT20) | 5300.00 | 10.02 | 13.75 | 13.92 | 4.52 | 3.78 | 3.21 | 136.71 |
| 802.11n(HT20) | 5320.00 | 10.03 | 13.54 | 13.68 | 4.52 | 3.78 | 3.21 | 131.33 |
| 802.11ac(VHT20) | 5260.00 | 9.18 | 12.34 | 12.72 | 4.52 | 3.78 | 3.21 | 103.54 |
| 802.11ac(VHT20) | 5300.00 | 9.03 | 12.82 | 12.99 | 4.52 | 3.78 | 3.21 | 110.04 |
| 802.11ac(VHT20) | 5320.00 | 9.07 | 12.52 | 12.74 | 4.52 | 3.78 | 3.21 | 104.87 |
| 802.11ax(HE20) | 5260.00 | 10.30 | 13.54 | 13.83 | 4.52 | 3.78 | 3.21 | 134.87 |
| 802.11ax(HE20) | 5300.00 | 10.24 | 13.88 | 14.21 | 4.52 | 3.78 | 3.21 | 143.47 |
| 802.11ax(HE20) | 5320.00 | 10.20 | 13.70 | 13.95 | 4.52 | 3.78 | 3.21 | 137.62 |
| 802.11n(HT40) | 5270.00 | 10.54 | 13.81 | 14.05 | 4.52 | 3.78 | 3.21 | 142.69 |
| 802.11n(HT40) | 5310.00 | 10.45 | 14.10 | 14.22 | 4.52 | 3.78 | 3.21 | 148.12 |
| 802.11ac(VHT40) | 5270.00 | 9.54 | 13.10 | 13.20 | 4.52 | 3.78 | 3.21 | 117.97 |
| 802.11ac(VHT40) | 5310.00 | 9.31 | 13.19 | 13.17 | 4.52 | 3.78 | 3.21 | 117.38 |
| 802.11ax(HE40) | 5270.00 | 10.94 | 13.18 | 13.42 | 4.52 | 3.78 | 3.21 | 130.84 |
| 802.11ax(HE40) | 5310.00 | 10.81 | 14.33 | 14.52 | 4.52 | 3.78 | 3.21 | 158.13 |
| 802.11ac(VHT80) | 5290.00 | 8.71 | 12.53 | 12.70 | 4.52 | 3.78 | 3.21 | 102.79 |
| 802.11ax(HE80) | 5290.00 | 8.93 | 10.63 | 10.89 | 4.52 | 3.78 | 3.21 | 75.44 |



| Modulation | Frequency | Conducted Power(dBm) | | | Antenna Gain (dBi) | | | Total Maximum EIRP Power (mW) |
|-----------------|-----------|----------------------|-------|-------|--------------------|------|------|-------------------------------|
| | | (MHz) | ANT1 | ANT2 | ANT3 | ANT1 | ANT2 | ANT3 |
| 802.11a | 5500.00 | 12.80 | 15.61 | 16.37 | 5.19 | 3.67 | 3.97 | 108.143 |
| 802.11a | 5600.00 | 12.57 | 15.00 | 15.96 | 5.19 | 3.67 | 3.97 | 98.401 |
| 802.11a | 5700.00 | 13.03 | 15.59 | 16.52 | 5.19 | 3.67 | 3.97 | 111.944 |
| 802.11n(HT20) | 5500.00 | 13.26 | 16.03 | 16.82 | 5.19 | 3.67 | 3.97 | 283.26 |
| 802.11n(HT20) | 5600.00 | 12.46 | 14.94 | 15.88 | 5.19 | 3.67 | 3.97 | 227.43 |
| 802.11n(HT20) | 5700.00 | 12.85 | 15.35 | 16.31 | 5.19 | 3.67 | 3.97 | 250.14 |
| 802.11ac(VHT20) | 5500.00 | 12.64 | 15.52 | 16.23 | 5.19 | 3.67 | 3.97 | 248.37 |
| 802.11ac(VHT20) | 5600.00 | 12.93 | 15.40 | 16.27 | 5.19 | 3.67 | 3.97 | 251.27 |
| 802.11ac(VHT20) | 5700.00 | 13.26 | 15.87 | 16.86 | 5.19 | 3.67 | 3.97 | 280.99 |
| 802.11ax(HE20) | 5500.00 | 12.66 | 15.91 | 16.56 | 5.19 | 3.67 | 3.97 | 264.72 |
| 802.11ax(HE20) | 5600.00 | 13.17 | 15.71 | 16.76 | 5.19 | 3.67 | 3.97 | 273.55 |
| 802.11ax(HE20) | 5700.00 | 13.25 | 15.72 | 16.63 | 5.19 | 3.67 | 3.97 | 271.53 |
| 802.11n(HT40) | 5510.00 | 13.06 | 15.64 | 16.46 | 5.19 | 3.67 | 3.97 | 262.55 |
| 802.11n(HT40) | 5670.00 | 12.98 | 15.94 | 16.24 | 5.19 | 3.67 | 3.97 | 261.98 |
| 802.11n(HT40) | 5590.00 | 12.48 | 15.00 | 15.86 | 5.19 | 3.67 | 3.97 | 228.26 |
| 802.11ac(VHT40) | 5510.00 | 13.23 | 15.92 | 16.81 | 5.19 | 3.67 | 3.97 | 280.17 |
| 802.11ac(VHT40) | 5670.00 | 12.88 | 15.81 | 16.19 | 5.19 | 3.67 | 3.97 | 256.59 |
| 802.11ac(VHT40) | 5590.00 | 12.69 | 15.35 | 16.28 | 5.19 | 3.67 | 3.97 | 247.10 |
| 802.11ax(HE40) | 5510.00 | 13.82 | 16.54 | 17.38 | 5.19 | 3.67 | 3.97 | 321.03 |
| 802.11ax(HE40) | 5670.00 | 12.96 | 15.96 | 16.33 | 5.19 | 3.67 | 3.97 | 264.30 |
| 802.11ax(HE40) | 5590.00 | 13.34 | 16.08 | 17.01 | 5.19 | 3.67 | 3.97 | 291.01 |
| 802.11ac(VHT80) | 5530.00 | 12.47 | 14.90 | 15.76 | 5.19 | 3.67 | 3.97 | 224.26 |
| 802.11ac(VHT80) | 5610.00 | 13.08 | 15.60 | 16.35 | 5.19 | 3.67 | 3.97 | 259.32 |
| 802.11ax(HE80) | 5530.00 | 13.00 | 15.55 | 16.45 | 5.19 | 3.67 | 3.97 | 259.63 |
| 802.11ax(HE80) | 5610.00 | 10.58 | 13.10 | 14.93 | 5.19 | 3.67 | 3.97 | 162.92 |

NOTE: 802.11a does not support MIMO mode, therefore select the maximum value.



5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at 1&2F., Building A, No. 26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

5.2 Test Instrument Used

| Item | Equipment | Manufacturer | Type No. | Serial No. | Firmware Version | Last calibration | Calibrated until |
|------|-----------------------------------|--------------|-------------|------------|------------------|------------------|------------------|
| 1 | Spectrum Analyzer (9kHz-26.5GHz) | KEYSIGHT | 9020A | MY55370835 | A.17.05 | Nov. 02, 2023 | Nov. 01, 2024 |
| 2 | Spectrum Analyzer (10kHz-39.9GHz) | R&S | FSV40-N | 100363 | 1.71 SP2 | Nov. 02, 2023 | Nov. 01, 2024 |
| 3 | Test Cable | N/A | R-01 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 4 | Test Cable | N/A | R-02 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 5 | Test Cable | N/A | R-03 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 6 | Test Cable | N/A | RF-01 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 7 | Test Cable | N/A | RF-02 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 8 | Test Cable | N/A | RF-03 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 9 | ESG Signal Generator | Agilent | E4421B | N/A | B.03.84 | Nov. 02, 2023 | Nov. 01, 2024 |
| 10 | Signal Generator | Agilent | N5182A | N/A | A.01.87 | Nov. 02, 2023 | Nov. 01, 2024 |
| 11 | Magnetic Field Probe Tester | Narda | ELT-400 | 0-0344 | N/A | Nov. 16, 2023 | Nov. 15, 2024 |
| 12 | Wideband Radio Communication Test | R&S | CMW500 | 106504 | V 3.7.22 | Nov. 02, 2023 | Nov. 01, 2024 |
| 13 | MWRF Power Meter Test system | MW | MW100-RF CB | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 14 | Power Meter | KEYSIGHT | N1912A P | N/A | A.05.00 | Nov. 02, 2023 | Nov. 01, 2024 |
| 15 | D.C. Power Supply | LongWei | TPR-6405D | N/A | N/A | \ | \ |
| 16 | RF Software | MW | MTS8310 | V2.0.0.0 | N/A | \ | \ |



6. DFS DETECTION THRESHOLDS AND RADAR TEST WAVEFORMS

6.1 Applicability of DFS Requirements

The following table from FCC KDB 905462 D02 NII DFS Compliance Procedures New Rules v02 lists the applicable requirements for the DFS testing.

| 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 |

Applicability of DFS Requirements during Normal Operation

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

| Additional requirements for devices with multiple bandwidth modes | Operational Mode | |
|---|---------------------------------------|--|
| | Master or Client With Radar Detection | Client Without Radar Detection |
| U-NII Detection Bandwidth and Statistical Performance Check | All BW modes must be tested | Not required |
| Channel Move Time and Channel Closing Transmission Time | Test using widest BW mode available | Test using the widest BW mode available for the link |
| All other tests | Any single BW mode | Not required |

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

6.2 DFS Detection Thresholds and Response Requirement

Below table provides the DFS Detection Thresholds for Master Devices as well as Client Devices incorporating In-Service Monitoring.

DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection.

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



DFS Response Requirement Values

| Parameter | Value |
|-----------------------------------|--|
| Non-occupancy period | Minimum 30 minutes. |
| Channel Availability Check Time | 60 seconds. |
| Channel Move Time | 10 seconds. (See Note 1.) |
| Channel Closing Transmission Time | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. (See Notes 1 and 2.) |
| U-NII Detection Bandwidth | Minimum 100% of the U- NII 99% transmission power bandwidth. (See Note 3.) |

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

6.3 Radar Test Waveforms

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

6.3.1 Short Pulse Radar Test Waveforms

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Number of Pulses | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|--|--------------------|---|--|--|--------------------------|
| 0 | 1 | 1428 | 18 | See Note1 | See Note1 |
| 1 | | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a | Roundup $\left\lceil \left(\frac{1}{360} \cdot \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\rceil$ | 60% | 30 |
| | | Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A | | | |
| 2 | 1-5 | 150-230 | 23-29 | 60% | 30 |
| 3 | 6-10 | 200-500 | 16-18 | 60% | 30 |
| 4 | 1-20 | 200-500 | 12-16 | 60% | 30 |
| Aggregate (Radar Types 1-4) | | | | 80% | 120 |
| Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests. | | | | | |

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



and not repeated from the previous waveforms in Tests A or B.

Pulse Repetition Intervals Values for Test A

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

6.3.2 Long Pulse Radar Test Waveform

| Radar Type | Pulse Width (μsec) | Chirp Width (MHz) | PRI (μsec) | Number of Pulses per Burst | Number of Bursts | Minimum Percentage Of Successful Detection | Minimum Number of Trials |
|------------|--------------------|-------------------|------------|----------------------------|------------------|--|--------------------------|
| 5 | 50-100 | 5-20 | 1000-2000 | 1-3 | 8-20 | 80% | 30 |

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

Each waveform is defined as follows:

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

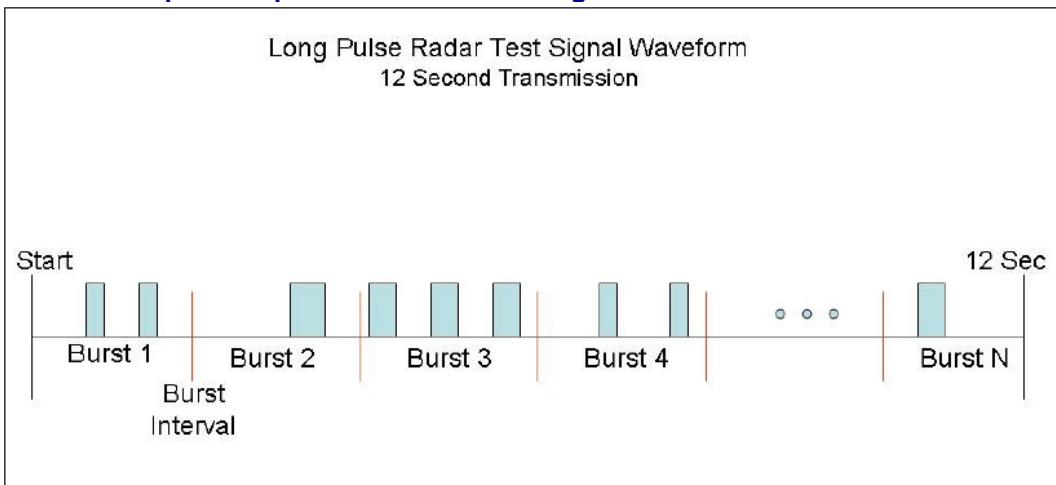


Count. Each interval is of length $(12,000,000 / \text{Burst Count})$ microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and $[(12,000,000 / \text{Burst Count}) - (\text{Total Burst Length}) + (\text{One Random PRI Interval})]$ microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen randomly.

A representative example of a Long Pulse Radar Type waveform:

- 1) The total test waveform length is 12 seconds.
- 2) Eight (8) Bursts are randomly generated for the Burst Count.
- 3) Burst 1 has 2 randomly generated pulses.
- 4) The pulse width (for both pulses) is randomly selected to be 75 microseconds.
- 5) The PRI is randomly selected to be at 1213 microseconds.
- 6) Bursts 2 through 8 are generated using steps 3 – 5.
- 7) Each Burst is contained in even intervals of 1,500,000 microseconds. The starting location for Pulse 1, Burst 1 is randomly generated (1 to 1,500,000 minus the total Burst 1 length + 1 random PRI interval) at the 325,001 microsecond step. Bursts 2 through 8 randomly fall in successive 1,500,000 microsecond intervals (i.e. Burst 2 falls in the 1,500,001 – 3,000,000 microsecond range).

Graphical representation of the Long Pulse Radar Test Waveform.



6.3.3 Frequency Hopping Radar Test Waveform

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

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

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

Radar Waveform Calibration

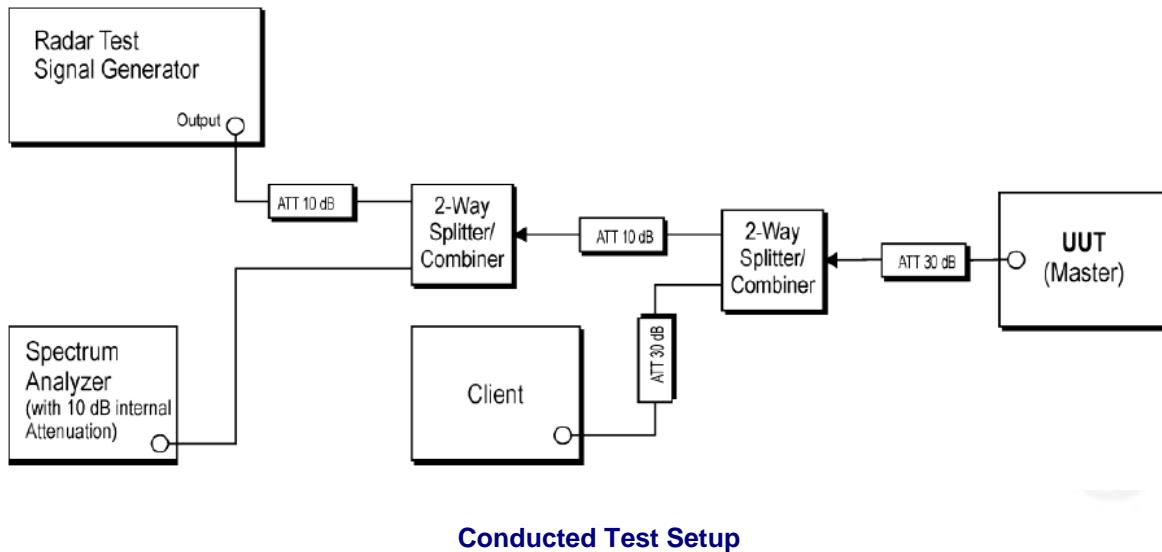
The following equipment setup was used to calibrate the conducted radar waveform. A spectrum analyzer was used to establish the test signal level for each radar type. During this process there were replace 50ohm terminal from master and client device and no transmissions by either the master or client device. The spectrum analyzer was switched to the zero span (time domain) at the frequency of the radar waveform generator. Peak detection was utilized. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3MHz and 3 MHz.

The signal generator amplitude was set so that the power level measured at the spectrum analyzer was -61dBm due to the interference threshold level is not required



6.3.4 DFS test setup

Setup for Master with injection at the Master



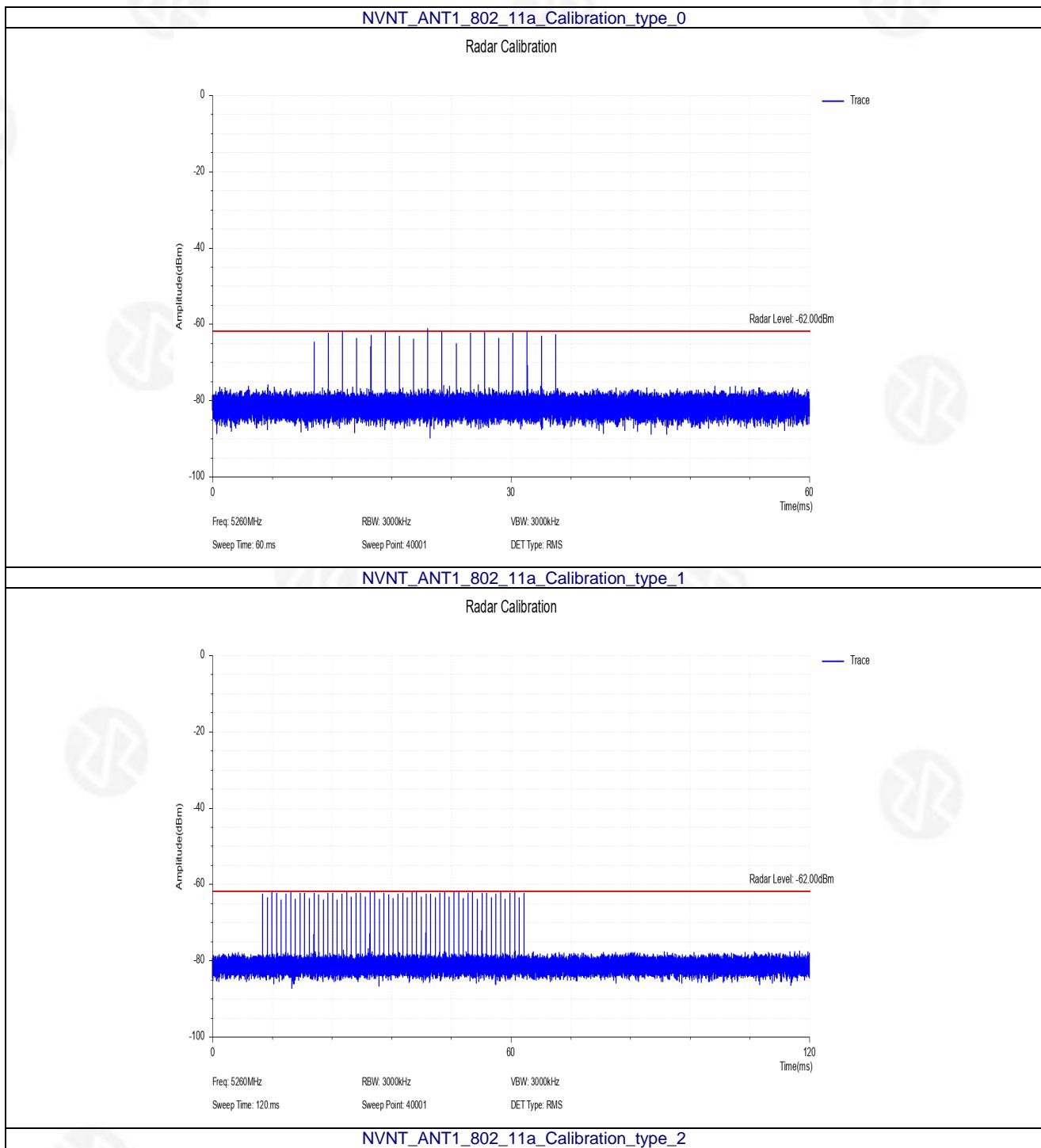
Calibration Procedure

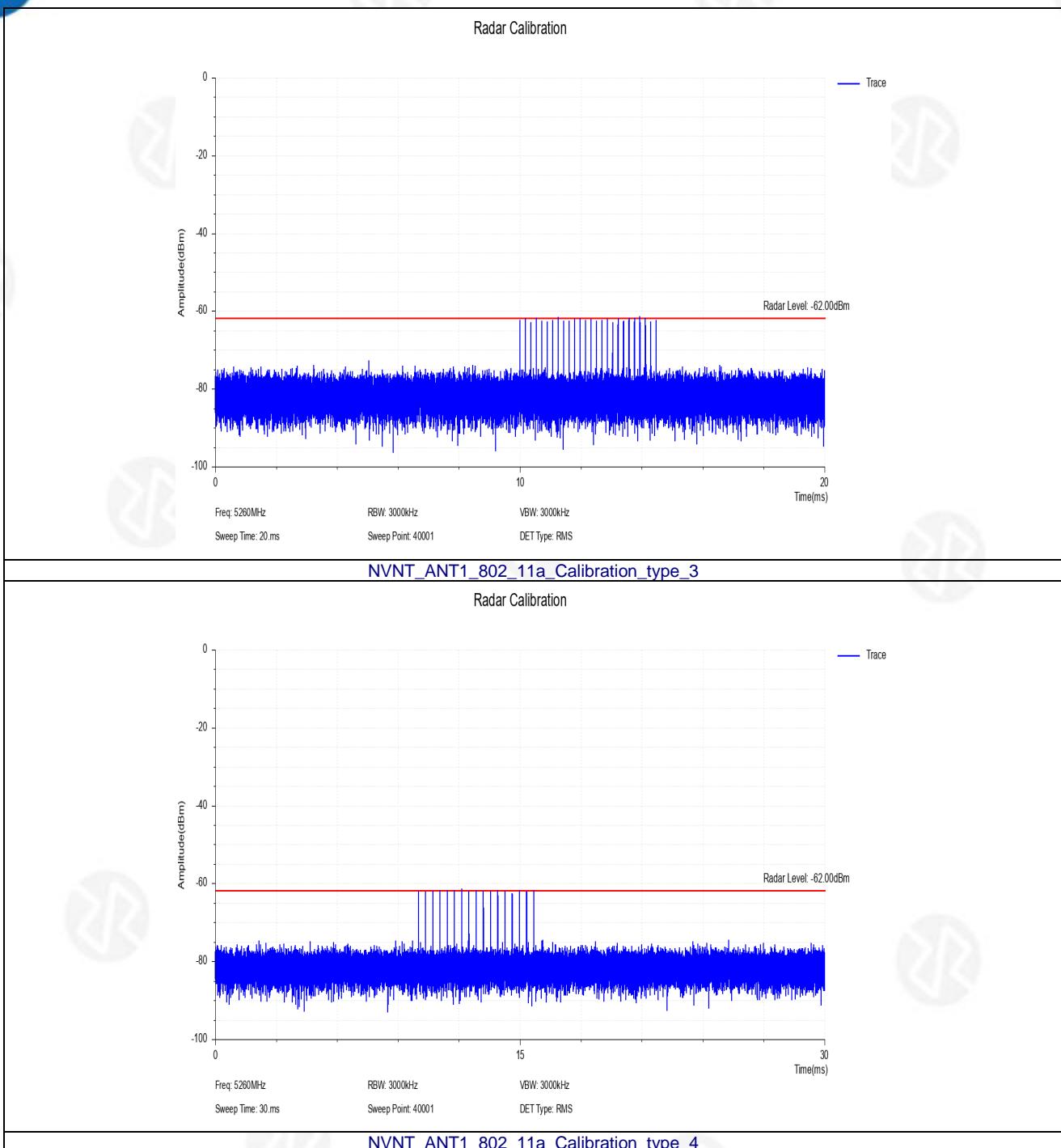
The Interference Radar Detection Threshold Level is $(-64\text{dBm}) + (0) [\text{dBi}] + 1 \text{ dB} = -63 \text{ dBm}$ that had been taken into account the output power range and antenna gain. The above equipment setup was used to calibrate the conducted Radar Waveform. A vector signal generator was utilized to establish the test signal level for each radar type. During this process there were replace 50ohm terminal form Master and Client device and no transmissions by either the Master or Client Device. The spectrum analyzer was switched to the zero span (Time Domain) at the frequency of the Radar Waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to at least 3MHz. The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was $(-64\text{dBm}) + (0) [\text{dBi}] + 1 \text{ dB} = -63\text{dBm}$. Capture the spectrum analyzer plots on short pulse radar types, long pulse radar type and hopping radar waveform.



7. TEST RESULT

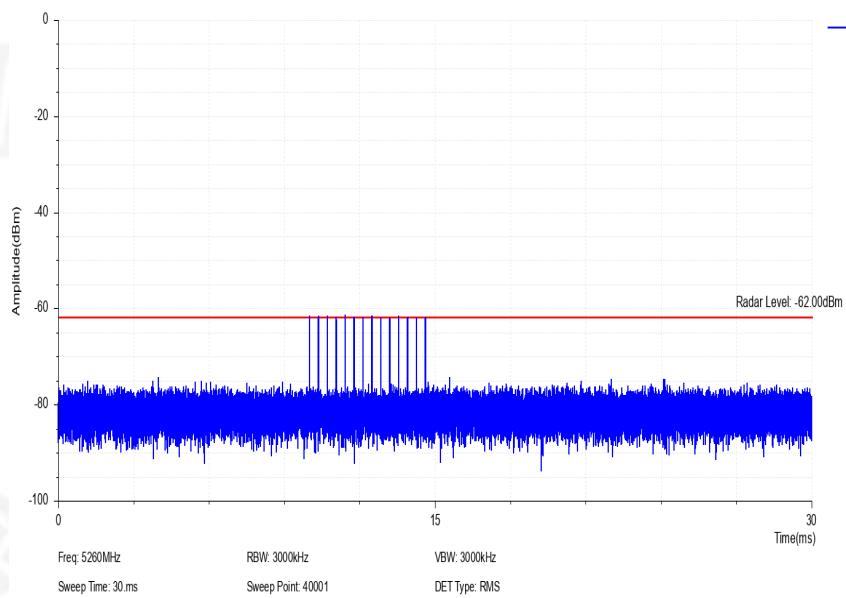
7.1 Calibration Result





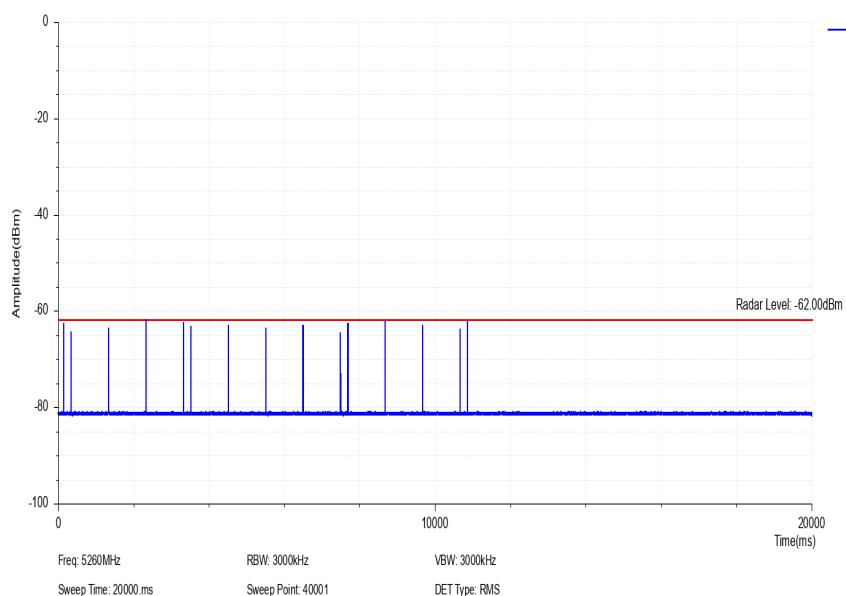


Radar Calibration

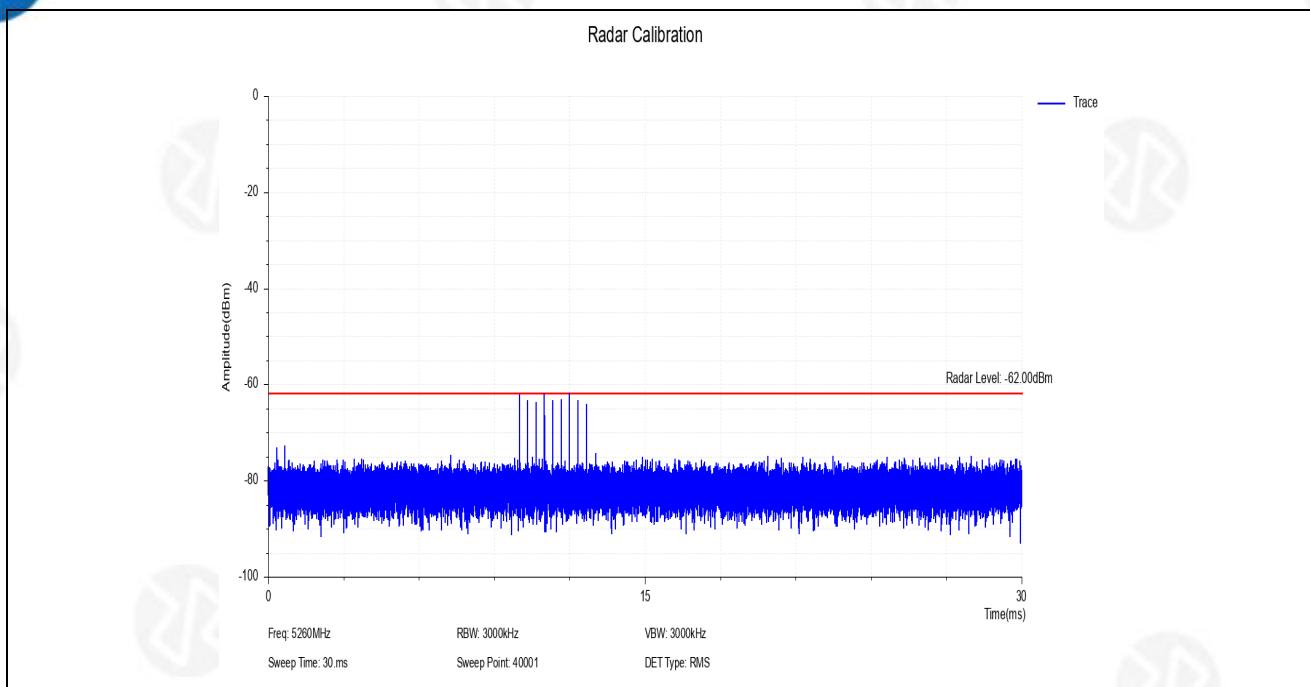


NVNT_ANT1_802_11a_Calibration_type_5

Radar Calibration



NVNT_ANT1_802_11a_Calibration_type_6





Radar 0 Statical Performances

| Trial # | Number of Pukes per Burst | Pde Width (μsec) | PRI (μs) |
|---------|---------------------------|------------------|----------|
| 1 | 18 | 1 | 428 |

Radar 1 Statical Performances

| Trial # | Number of Pukes per Burst | Pde Width (μsec) | PRI (μs) |
|---------|---------------------------|------------------|----------|
| 1 | 65 | 1 | 818 |
| 2 | 102 | 1 | 518 |
| 3 | 72 | 1 | 738 |
| 4 | 18 | 1 | 3066 |
| 5 | 92 | 1 | 578 |
| 6 | 58 | 1 | 918 |
| 7 | 68 | 1 | 658 |
| 8 | 76 | 1 | 558 |
| 9 | 58 | 1 | 918 |
| 10 | 81 | 1 | 658 |
| 11 | 95 | 1 | 558 |
| 12 | 76 | 1 | 698 |
| 13 | 65 | 1 | 818 |
| 14 | 68 | 1 | 778 |
| 15 | 89 | 1 | 598 |
| 16 | 89 | 1 | 598 |
| 17 | 78 | 1 | 678 |
| 18 | 72 | 1 | 738 |
| 19 | 65 | 1 | 818 |
| 20 | 74 | 1 | 718 |
| 21 | 81 | 1 | 658 |
| 22 | 81 | 1 | 658 |
| 23 | 65 | 1 | 818 |
| 24 | 59 | 1 | 898 |
| 25 | 63 | 1 | 838 |
| 26 | 62 | 1 | 858 |
| 27 | 57 | 1 | 938 |
| 28 | 58 | 1 | 918 |
| 29 | 63 | 1 | 838 |
| 30 | 63 | 1 | 838 |



Radar 2 Statical Performances

| Trial # | Number of Pukes per Burst | Pde Width (μsec) | PRI (μs) |
|---------|---------------------------|------------------|----------|
| 1 | 25 | 1.3 | 170 |
| 2 | 24 | 1.8 | 171 |
| 3 | 27 | 2.5 | 152 |
| 4 | 25 | 2.6 | 203 |
| 5 | 28 | 3.8 | 210 |
| 6 | 26 | 2.6 | 195 |
| 7 | 26 | 1.4 | 202 |
| 8 | 29 | 2.8 | 214 |
| 9 | 28 | 2.3 | 189 |
| 10 | 28 | 2 | 200 |
| 11 | 24 | 4.2 | 226 |
| 12 | 25 | 3.6 | 229 |
| 13 | 27 | 4 | 172 |
| 14 | 25 | 2.4 | 201 |
| 15 | 27 | 1.8 | 159 |
| 16 | 23 | 4.7 | 222 |
| 17 | 26 | 4.9 | 197 |
| 18 | 25 | 4 | 211 |
| 19 | 29 | 3.3 | 212 |
| 20 | 24 | 2.4 | 206 |
| 21 | 25 | 4.6 | 229 |
| 22 | 25 | 3.4 | 189 |
| 23 | 29 | 2.9 | 153 |
| 24 | 24 | 4.8 | 174 |
| 25 | 24 | 2.1 | 207 |
| 26 | 27 | 2 | 213 |
| 27 | 25 | 4.9 | 153 |
| 28 | 23 | 2 | 230 |
| 29 | 24 | 4.9 | 156 |
| 30 | 26 | 3.4 | 170 |



Radar 3 Statical Performances

| Trial # | Number of Pukes per Burst | Pde Width (μsec) | PRI (μs) |
|---------|---------------------------|------------------|----------|
| 1 | 17 | 7.9 | 472 |
| 2 | 17 | 7.8 | 491 |
| 3 | 18 | 6.3 | 457 |
| 4 | 18 | 6.8 | 429 |
| 5 | 18 | 6.1 | 420 |
| 6 | 17 | 9.8 | 210 |
| 7 | 18 | 7.8 | 322 |
| 8 | 17 | 9.7 | 464 |
| 9 | 18 | 6.2 | 497 |
| 10 | 16 | 9.1 | 203 |
| 11 | 17 | 10 | 265 |
| 12 | 17 | 8.3 | 467 |
| 13 | 16 | 7.5 | 370 |
| 14 | 17 | 9.2 | 264 |
| 15 | 17 | 9.8 | 483 |
| 16 | 17 | 7.1 | 257 |
| 17 | 17 | 6.5 | 479 |
| 18 | 16 | 8.4 | 225 |
| 19 | 18 | 8.4 | 335 |
| 20 | 17 | 9.6 | 332 |
| 21 | 16 | 8.3 | 385 |
| 22 | 18 | 6.2 | 361 |
| 23 | 18 | 8.6 | 289 |
| 24 | 17 | 9.8 | 261 |
| 25 | 17 | 6.9 | 317 |
| 26 | 18 | 9.8 | 356 |
| 27 | 17 | 8.8 | 373 |
| 28 | 17 | 9.9 | 481 |
| 29 | 16 | 9.7 | 200 |
| 30 | 16 | 8.7 | 460 |



Radar 4 Statical Performances

| Trial # | Number of Pukes per Burst | Pde Width (μsec) | PRI (μs) |
|---------|---------------------------|------------------|----------|
| 1 | 14 | 16 | 412 |
| 2 | 15 | 17 | 315 |
| 3 | 13 | 16.3 | 444 |
| 4 | 14 | 16.9 | 344 |
| 5 | 15 | 13.5 | 373 |
| 6 | 12 | 14 | 217 |
| 7 | 12 | 13 | 486 |
| 8 | 14 | 12.6 | 425 |
| 9 | 13 | 15.1 | 416 |
| 10 | 12 | 11.5 | 488 |
| 11 | 14 | 12.1 | 300 |
| 12 | 15 | 17.5 | 434 |
| 13 | 15 | 11.5 | 368 |
| 14 | 15 | 16 | 222 |
| 15 | 16 | 12.4 | 407 |
| 16 | 14 | 17.5 | 329 |
| 17 | 13 | 18.3 | 392 |
| 18 | 13 | 16.1 | 464 |
| 19 | 14 | 12.5 | 276 |
| 20 | 16 | 16 | 287 |
| 21 | 13 | 11.1 | 228 |
| 22 | 13 | 20 | 419 |
| 23 | 15 | 11.7 | 266 |
| 24 | 13 | 18.6 | 419 |
| 25 | 13 | 11 | 239 |
| 26 | 13 | 12.4 | 490 |
| 27 | 16 | 15.6 | 213 |
| 28 | 15 | 13.9 | 415 |
| 29 | 13 | 13.9 | 481 |
| 30 | 15 | 16.9 | 301 |



Radar 5 Statical Performances

| Trial Number:1 | | | | | | |
|--------------------|-----------------|--------------------|-------------------|-------------------------|-------------------------|---------------------------------------|
| Bursts in Trial:12 | | | | | | |
| Burst | Number of Fules | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (μsec) | Pulse 2-to-3 PRI (usec) | Start Location Within Interval (msec) |
| 1 | 3 | 93.6 | 16 | 1847 | 1350 | 618.231 |
| 2 | 2 | 84.2 | 6 | 1338 | | 68.31 |
| 3 | 3 | 75.9 | 6 | 1690 | 1973 | 639.15 |
| 4 | 2 | 91.6 | 16 | 1720 | | 9606 |
| 5 | 3 | 96.9 | 16 | 1048 | 1685 | 298.69 |
| 6 | 2 | 90.6 | 16 | 1893 | | 226.04 |
| 7 | 2 | 60.1 | 16 | 1020 | | 862.36 |
| 8 | 2 | 67.2 | 16 | 1239 | | 661.55 |
| 9 | 2 | 59.1 | 16 | 1171 | | 859.75 |
| 10 | 2 | 94.3 | 6 | 1647 | | 13.25 |
| 11 | 1 | 87.5 | 6 | | | 401.6 |
| 12 | 2 | 98.9 | 16 | 1753 | | 845.5 |
| Trial Number:2 | | | | | | |
| Bursts in Trial:19 | | | | | | |
| Burst | Number of Fules | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (μsec) | Pulse 2-to-3 PRI (usec) | Start Location Within Interval (msec) |
| 1 | 3 | 74.1 | 18 | 1187 | 1405 | 249.631 |
| 2 | 2 | 69.3 | 18 | 639 | | 418.411 |
| 3 | 2 | 53.1 | 18 | 1793 | | 314.492 |
| 4 | 1 | 95.9 | 18 | | | 225.313 |
| 5 | 1 | 78.2 | 18 | | | 62.294 |
| 6 | 2 | 918 | 18 | 1999 | | 494.655 |
| 7 | 1 | 92.2 | 18 | | | 160.016 |
| 8 | 2 | 58.5 | 18 | 1527 | | 231.397 |
| 9 | 3 | 64.9 | 18 | 1924 | 1018 | 441.748 |
| 10 | 3 | 839 | 18 | 1571 | 1639 | 294.549 |
| 11 | 1 | 63.1 | 18 | | | 386.191 |
| 12 | 2 | 907 | 18 | 1544 | | 56.352 |
| 13 | 2 | 87.1 | 18 | 1055 | | 96.003 |
| 14 | 3 | 97 | 18 | 1942 | 1225 | 87.254 |
| 15 | 1 | 94.3 | 18 | | | 398.315 |
| 16 | 1 | 89.2 | 18 | | | 515.726 |
| 17 | 1 | 6-4.8 | 18 | | | 580.937 |
| 18 | 2 | 67.1 | 18 | 1485 | | 304.758 |
| 19 | 2 | 88.2 | 18 | 1212 | | 94.179 |
| Trial Number:3 | | | | | | |
| Bursts in Trial:14 | | | | | | |
| Burst | Number of Fules | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (μsec) | Pulse 2-to-3 PRI (usec) | Start Location Within Interval (msec) |
| 1 | 1 | 97.6 | 19 | | | 692.765 |
| 2 | 2 | 95.1 | 19 | 1390 | | 106.502 |
| 3 | 1 | 52.7 | 19 | | | 529.344 |
| 4 | 3 | 67.7 | 19 | 1141 | 1221 | 508.721 |
| 5 | 2 | 97.7 | 19 | 1677 | | 462.179 |
| 6 | 2 | 87.3 | 19 | 1617 | | 483.886 |



| | | | | | | |
|----|---|------|----|------|------|---------|
| 7 | 2 | 99.7 | 19 | 1771 | | 399.373 |
| 8 | 1 | 82.8 | 19 | | | 699.02 |
| 9 | 1 | 80.4 | 19 | | | 415.507 |
| 10 | 2 | 707 | 19 | 1620 | | 197.354 |
| 11 | 2 | 76 | 19 | 1425 | | 728.081 |
| 12 | 2 | 62.5 | 19 | 1690 | | 149.749 |
| 13 | 3 | 53.9 | 19 | 1824 | 1104 | 673.086 |
| 14 | 2 | 78.3 | 19 | 1483 | | 267.943 |

Trial Number:4

Bursts in Trial:15

| Burst | Number of Fules | Pulse Wildth (μsec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (μsec) | Pulse 2-to-3 PRI (usec) | Start Locationm Within Interval (msec) |
|-------|-----------------|---------------------|-------------------|-------------------------|-------------------------|--|
| 1 | 1 | 54.6 | 11 | | | 427.995 |
| 2 | 2 | 74.8 | 11 | 1230 | | 712.91 |
| 3 | 2 | 51.7 | 11 | 1507 | | 751.14 |
| 4 | 1 | 73.1 | 11 | | | 21.69 |
| 5 | 3 | 70.3 | 11 | 1270 | 1181 | 69.52 |
| 6 | 2 | 82.3 | 11 | 1048 | | 73.51 |
| 7 | 2 | 52.1 | 11 | 1728 | | 210.74 |
| 8 | 2 | 86 | 11 | 1245 | | 370.44 |
| 9 | 3 | 84.6 | 11 | 1838 | 1195 | 214.03 |
| 10 | 2 | 90.8 | 11 | 1189 | | 564.28 |
| 11 | 2 | 54.9 | 11 | 1560 | | 60.36 |
| 12 | 2 | 71.1 | 11 | 1569 | | 372.87 |
| 13 | 2 | 94.2 | 11 | 1248 | | 228.77 |
| 14 | 2 | 77.6 | 11 | 1763 | | 317.4 |
| 15 | 2 | 61.7 | 11 | 1370 | | 274.4 |



| Trial Number:5 | | | | | | |
|-------------------|-----------------|---------------------|-------------------|-------------------------|-------------------------|---------------------------------------|
| Bursts in Trial:9 | | | | | | |
| Burst | Number of Fules | Pulse Wildth (μsec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (μsec) | Pulse 2-to-3 PRI (usec) | Start Location Within Interval (msec) |
| 1 | 1 | 91.6 | 15 | | | 693.623 |
| 2 | 3 | 62.4 | 15 | 1978 | 1641 | 1178.497 |
| 3 | 2 | 93.3 | 15 | 1567 | | 711.783 |
| 4 | 2 | 82.8 | 15 | 1362 | | 1126.17 |
| 5 | 1 | 84.2 | 15 | | | 89.487 |
| 6 | 2 | 55 | 15 | 1488 | | 250.723 |
| 7 | 2 | 83.4 | 15 | 1707 | | 934.27 |
| 8 | 1 | 78.8 | 15 | | | 1273.967 |
| 9 | 3 | 65.5 | 15 | 1596 | 1332 | 560.083 |

| Trial Number:6 | | | | | | |
|--------------------|-----------------|---------------------|-------------------|-------------------------|-------------------------|---------------------------------------|
| Bursts in Trial:19 | | | | | | |
| Burst | Number of Fules | Pulse Wildth (μsec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (μsec) | Pulse 2-to-3 PRI (usec) | Start Location Within Interval (msec) |
| 1 | 3 | 529 | 18 | 1594 | 1257 | 475.626 |
| 2 | 1 | 57.7 | 18 | | | 433.001 |
| 3 | 2 | 75.3 | 18 | 1324 | | 598.282 |
| 4 | 2 | 606 | 18 | 1417 | | 458.563 |
| 5 | 1 | 66.1 | 18 | | | 168.324 |
| 6 | 3 | 69.4 | 18 | 1695 | 1745 | 262.225 |
| 7 | 1 | 83.6 | 18 | | | 349.636 |
| 8 | 3 | 77.9 | 18 | 1164 | 1192 | 291.167 |
| 9 | 2 | 97.8 | 18 | 1371 | | 451.288 |
| 10 | 2 | 69.8 | 18 | 046 | | 545.409 |
| 11 | 1 | 100 | 18 | | | 174.291 |
| 12 | 1 | 53.2 | 18 | | | 444.202 |
| 13 | 2 | 68.3 | 18 | 2000 | | 544.193 |
| 14 | 3 | 98.2 | 18 | 1913 | 1917 | 218.574 |
| 15 | 3 | 68.3 | 18 | 1584 | 1690 | 566.185 |
| 16 | 2 | 86.1 | 18 | 1521 | | 34.606 |
| 17 | 3 | 56.2 | 18 | 1339 | 1515 | 138.937 |
| 18 | 3 | 83.7 | 18 | 1803 | 1784 | 74.058 |
| 19 | 1 | 77.7 | 18 | | | 271.779 |



Trial Number:7

Bursts in Trial:13

| Burst | Number of Fules | Pulse Wildth (μsec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (μsec) | Pulse 2-to-3 PRI (usec) | Start Location Within Interval (msec) |
|-------|-----------------|---------------------|-------------------|-------------------------|-------------------------|---------------------------------------|
| 1 | 3 | 70.4 | 6 | 1871 | 1880 | 432.293 |
| 2 | 1 | 73.2 | 6 | | | 300.273 |
| 3 | 3 | 82 | 6 | 1957 | 1588 | 896.636 |
| 4 | 2 | 98.9 | 6 | 1842 | | 449.659 |
| 5 | 1 | 85.3 | 6 | | | 163.562 |
| 6 | 2 | 89.6 | 6 | 1307 | | 667.155 |
| 7 | 3 | 94.5 | 6 | 1373 | 1613 | 439.908 |
| 8 | 3 | 84.9 | 6 | 1109 | 1433 | 914.212 |
| 9 | 2 | 89.6 | 6 | 1272 | | 99.915 |
| 10 | 1 | 77.1 | 6 | | | 338.698 |
| 11 | 3 | 57.1 | 6 | 1171 | 1339 | 83.661 |
| 12 | 2 | 86.6 | 6 | 1148 | | 204.454 |
| 13 | 2 | 82.6 | 6 | 1837 | | 612.077 |

Trial Number:8

Bursts in Trial:20

| Burst | Number of Fules | Pulse Wildth (μsec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (μsec) | Pulse 2-to-3 PRI (usec) | Start Location Within Interval (msec) |
|-------|-----------------|---------------------|-------------------|-------------------------|-------------------------|---------------------------------------|
| 1 | 2 | 81.3 | 20 | 1304 | | 114.157 |
| 2 | 3 | 71.4 | 20 | 1613 | 1197 | 170.909 |
| 3 | 2 | 64.9 | 20 | 1410 | | 85.48 |
| 4 | 2 | 51.7 | 20 | 1543 | | 468.54 |
| 5 | 3 | 85.1 | 20 | 1900 | 1361 | 549.71 |
| 6 | 2 | 60.2 | 20 | 1223 | | 373.85 |
| 7 | 3 | 64.7 | 20 | 290 | 1585 | 228.32 |
| 8 | 2 | 74.1 | 20 | 1559 | | 400.12 |
| 9 | 2 | 58.5 | 20 | 1623 | | 312.47 |
| 10 | 2 | 639 | 20 | 1824 | | 392.7 |
| 11 | 2 | 62 | 20 | 1531 | | 490.88 |
| 12 | 2 | 95.8 | 20 | 1405 | | 511.67 |
| 13 | 3 | 60.2 | 20 | 1595 | 1505 | 420.69 |
| 14 | 2 | 83.1 | 20 | 1114 | | 1506 |
| 15 | 2 | 55.6 | 20 | 1001 | | 387.64 |
| 16 | 3 | 77 | 20 | 1953 | 1919 | 479.57 |
| 17 | 2 | 94.8 | 20 | 1053 | | 9.7 |
| 18 | 2 | 939 | 20 | 1313 | | 194.6 |
| 19 | 3 | 91 | 20 | 1263 | 1081 | 591.5 |
| 20 | 2 | 99.5 | 20 | 1534 | | 327.8 |



Trial Number:9

Bursts in Trial:19

| Burst | Number of Fules | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (μsec) | Pulse 2-to-3 PRI (usec) | Start Location Within Interval (msec) |
|-------|-----------------|--------------------|-------------------|-------------------------|-------------------------|---------------------------------------|
| 1 | 2 | 78.7 | 9 | 1088 | | 104.957 |
| 2 | 2 | 84.4 | 9 | 1428 | | 178.996 |
| 3 | 3 | 65.9 | 9 | 1468 | 1793 | 332.952 |
| 4 | 3 | 59.6 | 9 | 1686 | 1484 | 121.883 |
| 5 | 2 | 99.5 | 9 | 1659 | | 306.804 |
| 6 | 2 | 77.7 | 9 | 1826 | | 139.755 |
| 7 | 2 | 73.9 | 9 | 1632 | | 569.436 |
| 8 | 3 | 79.2 | 9 | 1223 | 1462 | 524.157 |
| 9 | 2 | 87.4 | 9 | 1102 | | 601.698 |
| 10 | 2 | 539 | 9 | 1257 | | 208.049 |
| 11 | 3 | 68.4 | 9 | 1767 | 1476 | 273.191 |
| 12 | 2 | 86.1 | 9 | 1395 | | 202.672 |
| 13 | 1 | 60.9 | 9 | | | 14.453 |
| 14 | 3 | 74.9 | 9 | 1654 | 1642 | 561.524 |
| 15 | 2 | 74.1 | 9 | 1169 | | 122.475 |
| 6 | 3 | 59 | 9 | 1633 | 1603 | 146.356 |
| 17 | 2 | 78.8 | 9 | 1092 | | 427.637 |
| 18 | 2 | 85.1 | 9 | 1379 | | 522.758 |
| 19 | 1 | 96.3 | 9 | | | 337.379 |

Trial Number:10

Bursts in Trial:17

| Burst | Number of Fules | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (μsec) | Pulse 2-to-3 PRI (usec) | Start Location Within Interval (msec) |
|-------|-----------------|--------------------|-------------------|-------------------------|-------------------------|---------------------------------------|
| 1 | 3 | 85.9 | 13 | 1471 | 1765 | 428.302 |
| 2 | 1 | 72.7 | 13 | | | 509.188 |
| 3 | 2 | 73.5 | 13 | 1797 | | 579.005 |
| 4 | 3 | 64.4 | 13 | 1631 | 1485 | 308.803 |
| 5 | 3 | 79.6 | 13 | 1021 | 1534 | 58.021 |
| 6 | 3 | 66.7 | 13 | 1392 | 1413 | 150.378 |
| 7 | 2 | 54 | 13 | 1261 | | 371.176 |
| 8 | 3 | 76.9 | 13 | 1438 | 1070 | 175.254 |
| 9 | 2 | 69.7 | 13 | 1072 | | 140.141 |
| 10 | 2 | 53.8 | 13 | 1579 | | 218.969 |
| 11 | 2 | 95.2 | 13 | 2000 | | 456.416 |
| 12 | 2 | 87.1 | 13 | 1606 | | 692.184 |
| 13 | 2 | 91.4 | 13 | 1900 | | 227.752 |
| 14 | 2 | 67.2 | 13 | 1822 | | 220.709 |
| 15 | 2 | 97.2 | 13 | 1227 | | 71.747 |
| 16 | 2 | 607 | 13 | 1646 | | 110.265 |
| 17 | 3 | 57.8 | 13 | 1347 | 1271 | 42.982 |



Trial Number:11

Bursts in Trial:16

| Burst | Number of Fules | Pulse Wildth (μsec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Start Location Within Interval (msec) |
|-------|-----------------|---------------------|-------------------|-------------------------|-------------------------|---------------------------------------|
| 1 | 2 | 79.4 | 19 | 1480 | | 489.968 |
| 2 | 1 | 74.9 | 19 | | | 998.89 |
| 3 | 2 | 79.1 | 19 | 1694 | | 5.79 |
| 4 | 2 | 57.9 | 19 | 1916 | | 704.72 |
| 5 | 2 | 90.3 | 19 | 1797 | | 46.44 |
| 6 | 2 | 97.4 | 19 | 1943 | | 532.32 |
| 7 | 1 | 76.6 | 19 | | | 644.09 |
| 8 | 3 | 57.1 | 19 | 1732 | 1768 | 561.64 |
| 9 | 3 | 97.2 | 19 | 1787 | 1784 | 4.68 |
| 10 | 1 | 80 | 19 | | | 40.07 |
| 11 | 3 | 501 | 19 | 1357 | 1626 | 324.43 |
| 12 | 1 | 83 | 19 | | | 672.03 |
| 13 | 3 | 91.5 | 19 | 1752 | 1549 | 659.72 |
| 14 | 3 | 87 | 19 | 1364 | 1987 | 299.8 |
| 15 | 1 | 73.8 | 19 | | | 124.3 |
| 16 | 2 | 62.1 | 19 | 1903 | | 17.2 |

Trial Number:12

Bursts in Trial:16

| Burst | Number of Fules | Pulse Wildth (μsec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Start Location Within Interval (msec) |
|-------|-----------------|---------------------|-------------------|-------------------------|-------------------------|---------------------------------------|
| 1 | 1 | 79 | 10 | | | 195.998 |
| 2 | 2 | 53.1 | 10 | 1384 | | 450.33 |
| 3 | 3 | 77.8 | 10 | 1316 | 1424 | 341.76 |
| 4 | 3 | 693 | 10 | 1179 | 1603 | 708.72 |
| 5 | 2 | 84.2 | 10 | 1183 | | 538.9 |
| 6 | 2 | 70.5 | 10 | 1241 | | 97.71 |
| 7 | 3 | 78.8 | 10 | 1959 | 1050 | 4.88 |
| 8 | 1 | 82.5 | 10 | | | 183.31 |
| 9 | 3 | 91.2 | 10 | 1350 | 1829 | 486.34 |
| 10 | 2 | 65.5 | 10 | 1697 | | 42535 |
| 11 | 3 | 84.9 | 10 | 1975 | 1913 | 702.58 |
| 12 | 2 | 94.3 | 10 | 1588 | | 203.23 |
| 13 | 2 | 90.3 | 10 | 1762 | | 219.51 |
| 14 | 2 | 74.4 | 10 | 1197 | | 740.3 |
| 15 | 2 | 56.3 | 10 | 1005 | | 439 |
| 16 | 2 | 94.1 | 10 | 1807 | | 374.8 |



Trial Number:13

Bursts in Trial:12

| Burst | Number of Fules | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (μsec) | Pulse 2-to-3 PRI (usec) | Start Location Within Interval (msec) |
|-------|-----------------|--------------------|-------------------|-------------------------|-------------------------|---------------------------------------|
| | 2 | 78.9 | 17 | 1929 | | 442.93 |
| 2 | 2 | 70.3 | 17 | 1330 | | 786.67 |
| 3 | 2 | 74.4 | 17 | 1654 | | 213.51 |
| 4 | 2 | 94.1 | 17 | 1452 | | 644.49 |
| 5 | 2 | 99.8 | 17 | 1482 | | 703.45 |
| 6 | 2 | 94.7 | 17 | 1654 | | 663.56 |
| 7 | 3 | 80.4 | 17 | 1476 | 1661 | 80491 |
| 8 | 1 | 54.4 | 17 | | | 507.3 |
| 9 | 2 | 52.2 | 17 | 1277 | | 25.02 |
| 10 | 3 | 66.3 | 17 | 1704 | 1743 | 761.02 |
| 11 | 2 | 70.3 | 17 | 1059 | | 168.8 |
| 12 | 3 | 63.6 | 17 | 1560 | 1739 | 388.5 |

Trial Number:14

Bursts in Trial:10

| Burst | Number of Fules | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (μsec) | Pulse 2-to-3 PRI (usec) | Start Location Within Interval (msec) |
|-------|-----------------|--------------------|-------------------|-------------------------|-------------------------|---------------------------------------|
| | 3 | 71.3 | 20 | 1785 | 1212 | 1029.59 |
| 2 | 3 | 91.2 | 20 | 1240 | 1775 | 320.72 |
| 3 | 2 | 92.2 | 20 | 1965 | | 773.72 |
| 4 | 2 | 87.3 | 20 | 1680 | | 220.79 |
| 5 | 2 | 85.2 | 20 | 609 | | 830.69 |
| 6 | 3 | 69.2 | 20 | 1112 | 1812 | 65.45 |
| 7 | 2 | 73.3 | 20 | 1611 | | 1044.95 |
| 8 | 1 | 73.8 | 20 | | | 292.87 |
| 9 | 3 | 91.2 | 20 | 1249 | 1379 | 653.6 |
| 10 | 3 | 56.5 | 20 | 1504 | 1075 | 2904 |

Trial Number:15

Bursts in Trial:8

| Burst | Number of Fules | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (μsec) | Pulse 2-to-3 PRI (usec) | Start Location Within Interval (msec) |
|-------|-----------------|--------------------|-------------------|-------------------------|-------------------------|---------------------------------------|
| 1 | 3 | 51.4 | 7 | 1518 | 1727 | 809.176 |
| 2 | 2 | 83.6 | 7 | 1307 | | 970.86 |
| 3 | 3 | 51.6 | 7 | 1760 | 1082 | 1217.56 |
| 4 | 3 | 79.2 | 7 | 1888 | 1432 | 1217.64 |
| 5 | 3 | 84.7 | 7 | 1493 | 1553 | 269.02 |
| 6 | 3 | 97.3 | 7 | 1833 | 1142 | 791.9 |
| 7 | 2 | 64.6 | 7 | 1701 | | 487.8 |
| 8 | 2 | 80 | 7 | 1061 | | 1124.4 |



Trial Number:16

Bursts in Trial:13

| Burst | Number of Fules | Pulse Wildth (usec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (usec) | Pulse 2-to-3 PRI (usec) | Start Locationm Within Interval (msec) |
|-------|-----------------|---------------------|-------------------|-------------------------|-------------------------|--|
| 1 | 3 | 80.3 | 20 | 1960 | 1308 | 718.009 |
| 2 | 1 | 63.6 | 20 | | | 466.473 |
| 3 | 2 | 77.3 | 20 | 1531 | | 652.676 |
| 4 | 3 | 76 | 20 | 1121 | 1470 | 189.589 |
| 5 | 2 | 73.1 | 20 | 1480 | | 558.132 |
| 6 | 2 | 87.8 | 20 | 1250 | | 219.425 |
| 7 | 2 | 77.9 | 20 | 1250 | | 131.458 |
| 8 | 1 | 75.1 | 20 | | | 439.232 |
| 9 | 2 | 90.2 | 20 | 1069 | | 109.375 |
| 10 | 2 | 69.5 | 20 | 1761 | | 608.468 |
| 11 | 1 | 50.8 | 20 | | | 290.581 |
| 12 | 3 | 78.7 | 20 | 1937 | 1650 | 440.554 |
| 13 | 2 | 92.4 | 20 | 1566 | | 242.177 |

Trial Number:17

Bursts in Trial:9

| Burst | Number of Fules | Pulse Wildth (usec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (usec) | Pulse 2-to-3 PRI (usec) | Start Locationm Within Interval (msec) |
|-------|-----------------|---------------------|-------------------|-------------------------|-------------------------|--|
| 1 | 2 | 90 | 15 | 1710 | | 902.011 |
| 2 | 2 | 65.9 | 15 | 1591 | | 101.297 |
| 3 | 2 | 92.8 | 15 | 1945 | | 1247.383 |
| 4 | 2 | 79.6 | 15 | 1052 | | 86.16 |
| 5 | 1 | 81.6 | 15 | | | 589.737 |
| 6 | 2 | 68.3 | 15 | 1747 | | 460.733 |
| 7 | 3 | 54.9 | 15 | 1864 | 1416 | 1184.22 |
| 8 | 2 | 77.4 | 15 | 1123 | | 477.887 |
| 9 | 2 | 60.9 | 15 | 1012 | | 872.083 |

Trial Number:18

Bursts in Trial:16

| Burst | Number of Fules | Pulse Wildth (usec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (usec) | Pulse 2-to-3 PRI (usec) | Start Locationm Within Interval (msec) |
|-------|-----------------|---------------------|-------------------|-------------------------|-------------------------|--|
| 1 | 3 | 60.6 | 11 | 1629 | 1909 | 283.408 |
| 2 | 1 | 97.9 | 11 | | | AT9.38 |
| 3 | 1 | 73.4 | 11 | | | 636.22 |
| 4 | 2 | 84.7 | 11 | 1791 | | 1.3 |
| 5 | 2 | 81.1 | 11 | 1734 | | 260.41 |
| 6 | 2 | 97.1 | 11 | 1947 | | 716.79 |
| 7 | 3 | 70.8 | 11 | 1285 | 1955 | 243.25 |
| 8 | 1 | 84.9 | 11 | | | 55,047 |
| 9 | 1 | 74.5 | 11 | | | 19.36 |
| 10 | 3 | 93.3 | 11 | 1362 | 1729 | 266.59 |
| 11 | 2 | 84.3 | 11 | 1626 | | 9.78 |
| 12 | 2 | 88.5 | 11 | 1238 | | 328.18 |
| 13 | 2 | 73.2 | 11 | 1835 | | 119.3 |
| 14 | 1 | 61.4 | 11 | | | 454 |
| 15 | 2 | 89.7 | 11 | 1765 | | 12.3 |
| 16 | 3 | 63.7 | 11 | 1044 | 1445 | 743.4 |



Trial Number:19

Bursts in Trial:16

| Burst | Number of Fules | Pulse Wildth (usec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (usec) | Pulse 2-to-3 PRI (usec) | Start Locationm Within Interval (msec) |
|-------|-----------------|---------------------|-------------------|-------------------------|-------------------------|--|
| 1 | 2 | 69.5 | 15 | 1071 | | 242.805 |
| 2 | 1 | 57.8 | 15 | | | 350.09 |
| 3 | 2 | 91.1 | 15 | 1491 | | 484.08 |
| 4 | 2 | 90.2 | 15 | 1654 | | 673.94 |
| 5 | 2 | 75.9 | 15 | 1461 | | 389.7 |
| 6 | 1 | 72.5 | 15 | | | 454.11 |
| 7 | 3 | 88.5 | 15 | 1338 | 1930 | 63.29 |
| 8 | 1 | 60 | 15 | | | 41.53 |
| 9 | 1 | 92.2 | 15 | | | 391.15 |
| 10 | 3 | 68.2 | 15 | 1114 | 1967 | 201.82 |
| 11 | 2 | 66.1 | 15 | 1851 | | 693.88 |
| 12 | 2 | 57.4 | 15 | 1950 | | 90.13 |
| 13 | 3 | 53.8 | 15 | 1753 | 1560 | 252.33 |
| 14 | 1 | 92.3 | 15 | | | 436.9 |
| 15 | 3 | 71.9 | 15 | 1499 | 1617 | 6429 |
| 16 | 1 | 85.6 | 15 | | | 600.8 |

Trial Number:20

Bursts in Trial:12

| Burst | Number of Fules | Pulse Wildth (usec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (usec) | Pulse 2-to-3 PRI (usec) | Start Locationm Within Interval (msec) |
|-------|-----------------|---------------------|-------------------|-------------------------|-------------------------|--|
| 1 | 2 | 96.6 | 17 | 1980 | | 412.166 |
| 2 | 2 | 56.8 | 17 | 1416 | | 910.49 |
| 3 | 3 | 52.1 | 17 | 1095 | 1684 | 370.27 |
| 4 | 2 | 62.7 | 17 | 1709 | | 972.13 |
| 5 | 2 | 51.7 | 17 | 1801 | | 820.75 |
| 6 | 1 | 74.2 | 17 | | | 979.07 |
| 7 | 2 | 58.3 | 17 | 1529 | | 885.68 |
| 8 | 3 | 75.1 | 17 | 1305 | 1180 | 971.98 |
| 9 | 2 | 94 | 17 | 1894 | | 718.84 |
| 10 | 3 | 99.1 | 17 | 1084 | 1537 | 59.89 |
| 11 | 1 | 97.2 | 17 | | | 712.5 |
| 12 | 3 | 95.1 | 17 | 1268 | 1454 | 783.4 |



Trial Number:21

Bursts in Trial:13

| Burst | Number of Fules | Pulse Wildth (μsec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (μsec) | Pulse 2-to-3 PRI (usec) | Start Locationm Within Interval (msec) |
|-------|-----------------|---------------------|-------------------|-------------------------|-------------------------|--|
| 1 | 1 | 54.1 | 8 | | | 402.22 |
| 2 | 2 | 78.2 | 8 | 1825 | | 487.693 |
| 3 | 1 | 77.5 | 8 | | | 481.576 |
| 4 | 1 | 80.9 | 8 | | | 302.08 |
| 5 | 3 | 73.8 | 8 | 294 | 1539 | 501.412 |
| 6 | 1 | 67.2 | 8 | | | 543.475 |
| 7 | 1 | 79.9 | 8 | | | 174.448 |
| 8 | 2 | 54.4 | 8 | 1270 | | 783.622 |
| 9 | 1 | 70.9 | 8 | | | 116.785 |
| 10 | 1 | 82.6 | 8 | | | 90.048 |
| 11 | 2 | 58 | 8 | 1285 | | 595.601 |
| 12 | 1 | 53.7 | 8 | | | 265.06 |
| 13 | 2 | 83.1 | 8 | 1624 | | 367.577 |

Trial Number:22

Bursts im Trial:13

| Burst | Number of Fules | Pulse Wildth (μsec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (μsec) | Pulse 2-to-3 PRI (usec) | Start Locationm Within Interval (msec) |
|-------|-----------------|---------------------|-------------------|-------------------------|-------------------------|--|
| 1 | 1 | 72.8 | 18 | | | 291.86 |
| 2 | 2 | 77.6 | 18 | 1650 | | 551643 |
| 3 | 2 | 72.2 | 18 | 1120 | | 793.426 |
| 4 | 1 | 77.5 | 18 | | | 135.049 |
| 5 | 2 | 92.6 | 18 | 1665 | | 336.912 |
| 6 | 1 | 81.4 | 18 | | | 562.305 |
| 7 | 2 | 6 | 18 | 1937 | | 57.268 |
| 8 | 3 | 67 | 18 | 1315 | 1692 | 756.272 |
| 9 | 2 | 57.8 | 18 | 1573 | | 461.145 |
| 10 | 2 | 83.6 | 18 | 1886 | | 105.458 |
| 11 | 2 | 58.6 | 18 | 118 | | 232.771 |
| 12 | 2 | 62.8 | 18 | 1241 | | 244.854 |
| 13 | 2 | 81.4 | 18 | 1897 | | 912677 |

Trial Number:23

Bursts in Trial:8

| Burst | Number of Fules | Pulse Wildth (μsec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (μsec) | Pulse 2-to-3 PRI (usec) | Start Locationm Within Interval (msec) |
|-------|-----------------|---------------------|-------------------|-------------------------|-------------------------|--|
| 1 | 2 | 88.2 | 10 | 1704 | | 1119.56 |
| 2 | 1 | 50.5 | 10 | | | 1385.62 |
| 3 | 3 | 84.6 | 0 | 1995 | 1424 | 622.77 |
| 4 | 3 | 89.4 | 0 | 961 | 1285 | 85.03 |
| 5 | 1 | 76.9 | 10 | | | 628.59 |
| 6 | 3 | 69.7 | 10 | 1493 | 1156 | 48.53 |
| 7 | 1 | 86 | 10 | | | 551.12 |
| 8 | 2 | 68.3 | 10 | 1310 | | 1286.4 |



Trial Number:24

Bursts in Trial:11

| Burst | Number of Fules | Pulse Wildth (μsec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (μsec) | Pulse 2-to-3 PRI (usec) | Start Location Within Interval (msec) |
|-------|-----------------|---------------------|-------------------|-------------------------|-------------------------|---------------------------------------|
| 1 | 2 | 85.2 | 13 | 1947 | | 658.822 |
| 2 | 1 | 95.8 | 13 | | | 762.801 |
| 3 | 2 | 97.2 | 13 | 1096 | | 751.442 |
| 4 | 2 | 61.7 | 13 | 1838 | | 107.123 |
| 5 | 1 | 59.7 | 13 | | | 991.764 |
| 6 | 2 | 75.8 | 13 | 1883 | | 11.575 |
| 7 | 3 | 50 | 3 | 1682 | 1325 | 697.815 |
| 8 | 3 | 56.1 | 13 | 1611 | 1949 | 743.626 |
| 9 | 2 | 89 | 13 | 1215 | | 821.807 |
| 10 | 1 | 56.8 | 13 | | | 650.018 |
| 11 | 3 | 69.8 | 13 | 1139 | 1688 | 59.309 |

Trial Number:25

Bursts in Trial:14

| Burst | Number of Fules | Pulse Wildth (μsec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (μsec) | Pulse 2-to-3 PRI (usec) | Start Location Within Interval (msec) |
|-------|-----------------|---------------------|-------------------|-------------------------|-------------------------|---------------------------------------|
| 1 | 1 | 836 | 5 | | | 315.874 |
| 2 | 1 | 65.3 | 5 | | | 0.113 |
| 3 | 1 | 56.5 | 5 | | | 213.084 |
| 4 | 3 | 58.2 | 5 | 1956 | 1109 | 101.101 |
| 5 | 2 | 54 | 5 | 1904 | | 37.759 |
| 6 | 2 | 89.4 | 5 | 1070 | | 43.276 |
| 7 | 3 | 92.4 | 5 | 1105 | 1707 | 420.83 |
| 8 | 3 | 66.8 | 5 | 1708 | 1280 | 431.02 |
| 9 | 2 | 62.1 | 5 | 1124 | | 634.157 |
| 10 | 2 | 88.6 | 5 | 1631 | | 70.914 |
| 11 | 3 | 66.9 | 5 | 1790 | 1297 | 7.901 |
| 12 | 2 | 84.7 | 5 | 1897 | | 822.429 |
| 13 | 1 | 85.6 | 5 | | | 639.186 |
| 14 | 2 | 88.9 | 5 | 1866 | | 598.543 |



Trial Number:26

Bursts in Trial:15

| Burst | Number of Fules | Pulse Wildth (usec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (usec) | Pulse 2-to-3 PRI (usec) | Start Locationm Within Interval (msec) |
|-------|-----------------|---------------------|-------------------|-------------------------|-------------------------|--|
| 1 | 1 | 82.8 | 13 | | | 644.239 |
| 2 | 3 | 70.2 | 13 | 1495 | 1030 | 689.39 |
| 3 | 2 | 52.9 | 13 | 1458 | | 139.58 |
| 4 | 1 | 701 | 13 | | | 85.86 |
| 5 | 2 | 77.5 | 13 | 1631 | | 562.08 |
| 6 | 2 | 70.2 | 13 | 1500 | | 531.08 |
| 7 | 2 | 82.9 | 13 | 1829 | | 402.97 |
| 8 | 2 | 50 | 13 | 1596 | | 654.68 |
| 9 | 1 | 51 | 13 | | | 468.5 |
| 10 | 3 | 90.4 | 13 | 1523 | 1382 | 641.36 |
| 11 | 3 | 55.6 | 13 | 1638 | 130 | 310.94 |
| 12 | 2 | 89.3 | 13 | 1333 | | 268.27 |
| 13 | 3 | 69.6 | 13 | 1993 | 1263 | 783.4 |
| 14 | 1 | 507 | 13 | | | 236.1 |
| 15 | 3 | 80.8 | 13 | 1921 | 1556 | 86.8 |

Trial Number:27

Bursts in Trial:12

| Burst | Number of Fules | Pulse Wildth (usec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (usec) | Pulse 2-to-3 PRI (usec) | Start Locationm Within Interval (msec) |
|-------|-----------------|---------------------|-------------------|-------------------------|-------------------------|--|
| 1 | 1 | 63 | 20 | | | 23.935 |
| 2 | 3 | 91.1 | 20 | 1018 | 1610 | 869.96 |
| 3 | 1 | 98.1 | 20 | | | 677 |
| 4 | 1 | 84.5 | 20 | | | 806.74 |
| 5 | 2 | 96.4 | 20 | 1983 | | 74.08 |
| 6 | 2 | 79.7 | 20 | 1321 | | 453.55 |
| 7 | 1 | 90 | 20 | | | 675.92 |
| 8 | 3 | 99.2 | 20 | 1932 | 622 | 6.4 |
| 9 | 2 | 60.5 | 20 | 1266 | | 608.04 |
| 10 | 3 | 58.5 | 20 | 1753 | 1333 | 976.52 |
| 11 | 3 | 51.9 | 20 | 1435 | 965 | 825 |
| 12 | 1 | 57.2 | 20 | | | 745.4 |

Trial Number:28

Bursts in Trial:10

| Burst | Number of Fules | Pulse Wildth (usec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (usec) | Pulse 2-to-3 PRI (usec) | Start Locationm Within Interval (msec) |
|-------|-----------------|---------------------|-------------------|-------------------------|-------------------------|--|
| 1 | 3 | 77.1 | 11 | 1968 | 1325 | 213.606 |
| 2 | 3 | 54.3 | 11 | 1897 | 1020 | 249.26 |
| 3 | 2 | 75.2 | 11 | 1370 | | 984.34 |
| 4 | 2 | 77.2 | 11 | 1570 | | 1068.88 |
| 5 | 2 | 68.9 | 11 | 1077 | | 624.85 |
| 6 | 3 | 95.2 | 11 | 1504 | 1591 | 63.93 |
| 7 | 2 | 70.4 | 11 | 1948 | | 113364 |
| 8 | 3 | 57.5 | 11 | 1144 | 1229 | 365.38 |
| 9 | 2 | 61.7 | 11 | 1939 | | 499.8 |
| 10 | 2 | 99.5 | 11 | 13%5 | | 716.3 |



Trial Number:29

Bursts in Trial:19

| Burst | Number of Fules | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Start Location Within Interval (msec) |
|-------|-----------------|--------------------|-------------------|-------------------------|-------------------------|---------------------------------------|
| 1 | 2 | 96.2 | 15 | 1357 | | 431.184 |
| 2 | 1 | 73 | 15 | | | 393.801 |
| 3 | 2 | 86.7 | 15 | 1952 | | 182.322 |
| 4 | 3 | 79.9 | 15 | 1332 | 1651 | 230.583 |
| 5 | 2 | 90.7 | 15 | 1276 | | 13.344 |
| 6 | 1 | 54.3 | 15 | | | 374.635 |
| 7 | 3 | 58.5 | 15 | 1228 | 1184 | 442.896 |
| 8 | 2 | 82.8 | 15 | 1414 | | 159.577 |
| 9 | 2 | 72.1 | 15 | 1953 | | 201.808 |
| 0 | 2 | 81.3 | 15 | 186 | | 409.059 |
| 11 | 2 | 84.1 | 15 | 1280 | | 83.361 |
| 12 | 2 | 94.5 | 15 | 1396 | | 451.772 |
| 13 | 2 | 56.9 | 15 | 1357 | | 592.873 |
| 14 | 2 | 73 | 15 | 1639 | | 350.104 |
| 15 | 2 | 61.3 | 15 | 1751 | | 573.515 |
| 6 | 3 | 76 | 15 | 1040 | 1130 | 387.316 |
| 17 | 1 | 54.9 | 15 | | | 612.637 |
| 18 | 3 | 61.4 | 15 | 1678 | 1827 | 525.058 |
| 19 | 2 | 68.6 | 15 | 1400 | | 29.379 |

Trial Number:30

Bursts in Trial:12

| Burst | Number of Fules | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-Lo-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Start Location Within Interval (msec) |
|-------|-----------------|--------------------|-------------------|-------------------------|-------------------------|---------------------------------------|
| 1 | 3 | 79.7 | 10 | 1968 | 1828 | 271.775 |
| 2 | 2 | 56.3 | 10 | 1144 | | 680.91 |
| 3 | 2 | 81.9 | 10 | 1423 | | 652.33 |
| 4 | 2 | 62.6 | 10 | 1529 | | 92 |
| 5 | 3 | 55.4 | 10 | 1721 | 564 | 122.39 |
| 6 | 2 | 60.2 | 10 | 1069 | | 912.03 |
| 7 | 2 | 93.5 | 10 | 1920 | | 645.18 |
| 8 | 2 | 89.6 | 10 | 1018 | | 408.17 |
| 9 | 3 | 90 | 10 | 1387 | 1463 | 80.64 |
| 10 | 3 | 57.4 | 10 | 1401 | 1921 | 744.38 |
| 11 | 3 | 91.8 | 10 | 1485 | 1883 | 01 |
| 12 | 3 | 72.9 | 10 | 1392 | 1443 | 370.4 |



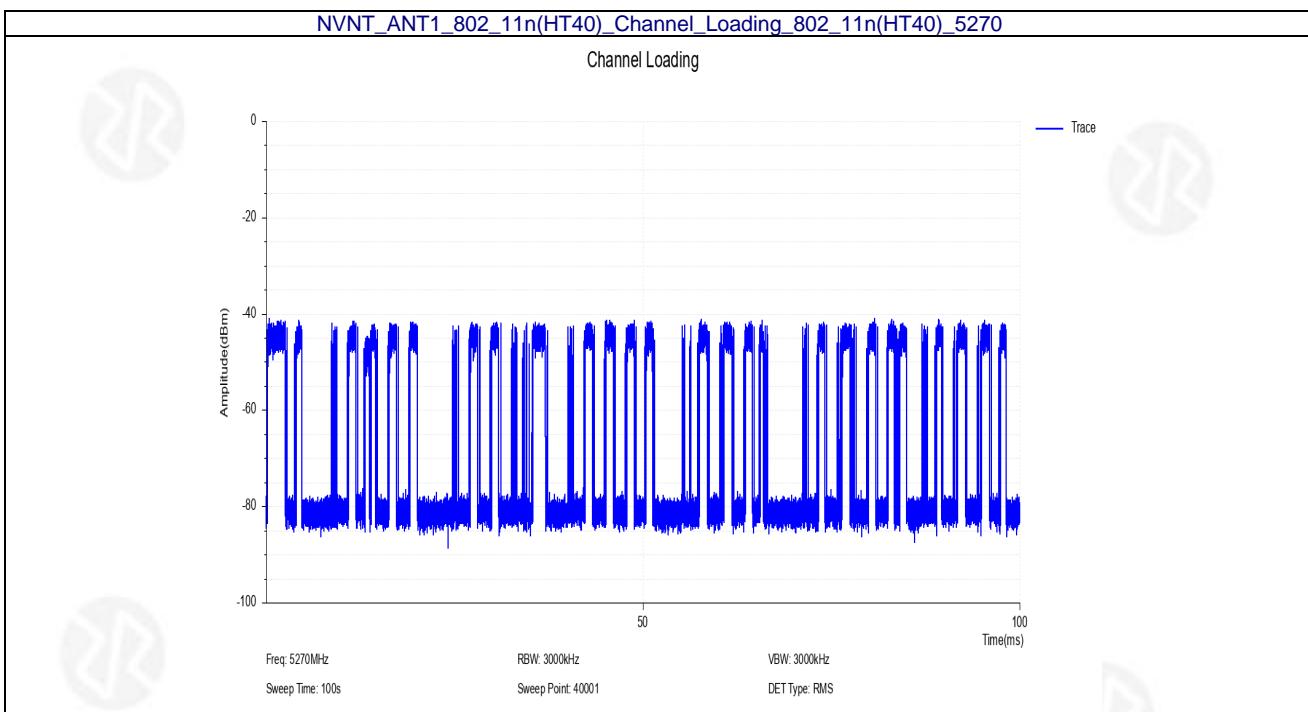
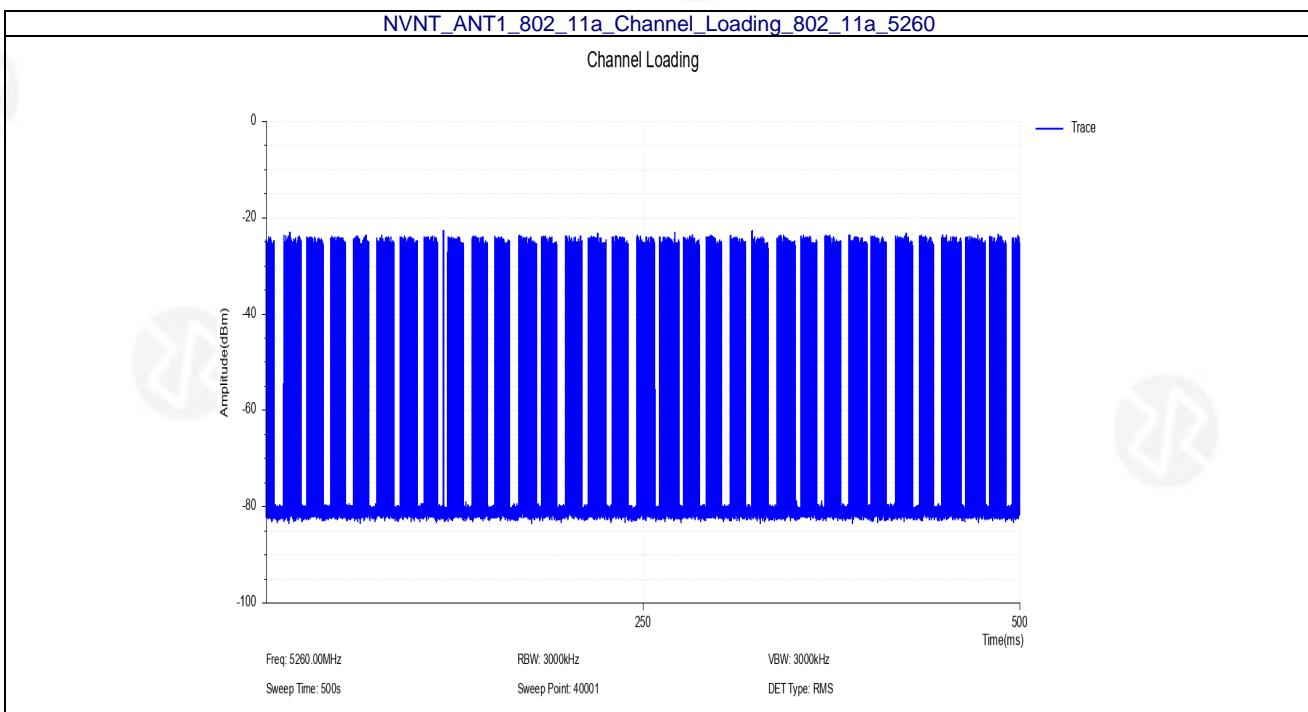
Radar 6 Statical Performances

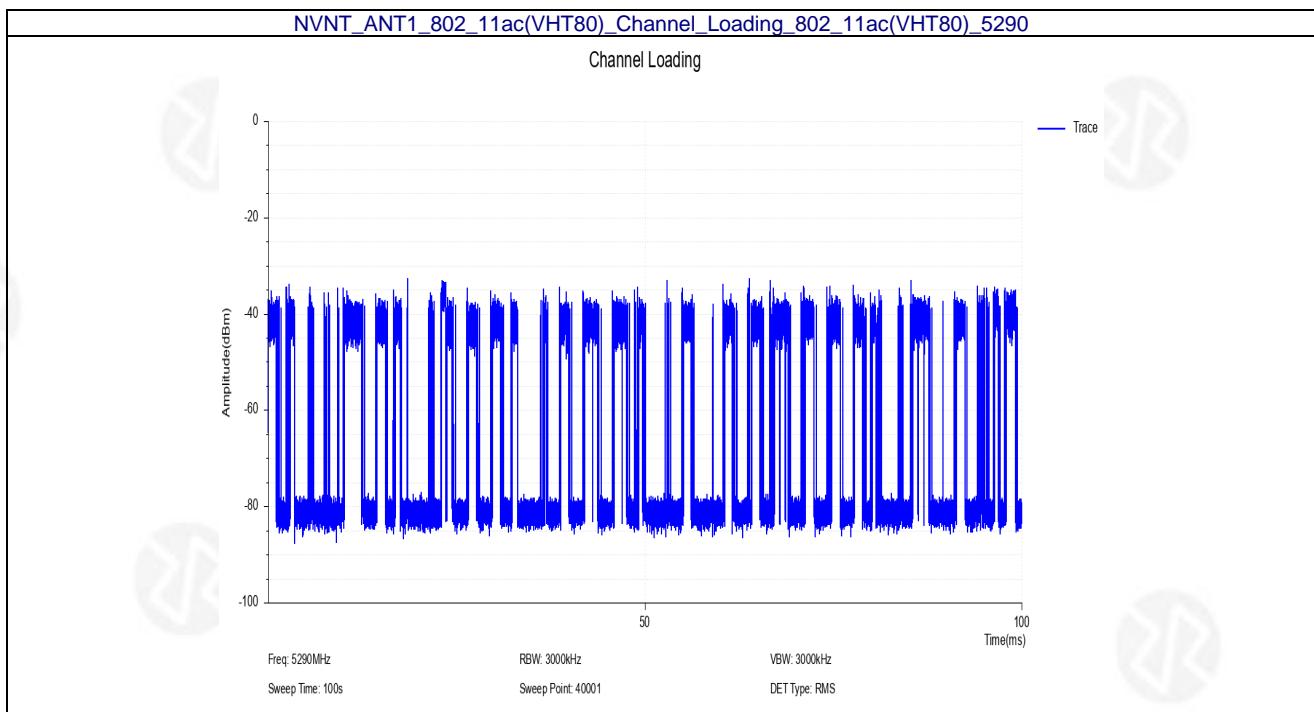
| Trial # | Pulse Width (μs) | PRI (μs) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (ms) | Number of Pulses |
|---------|------------------|----------|----------------|--------------------|------------------------------|------------------|
| 1 | 1 | 9 | 9 | 0.3333 | 300 | 16 |
| 2 | 1 | 9 | 9 | 0.3333 | 300 | 10 |
| 3 | 1 | 333.3 | 9 | 0.3333 | 300 | 14 |
| 4 | 1 | 333.3 | 9 | 0.3333 | 300 | 19 |
| 5 | 1 | 333.3 | 9 | 0.3333 | 300 | 15 |
| 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 18 |
| 7 | 1 | 333.3 | 9 | 0.3333 | 300 | 14 |
| 8 | 1 | 333.3 | 9 | 0.3333 | 300 | 14 |
| 9 | 1 | 333.3 | 9 | 0.3333 | 300 | 21 |
| 10 | 1 | 333.3 | 9 | 0.3333 | 300 | 15 |
| 11 | 1 | 333.3 | 9 | 0.3328 | 300 | 16 |
| 12 | 1 | 333.3 | 9 | 0.3333 | 300 | 24 |
| 13 | 1 | 333.3 | 9 | 0.3333 | 300 | 13 |
| 14 | 1 | 333.3 | 9 | 0.3333 | 300 | 20 |
| 15 | 1 | 333.3 | 9 | 0.3333 | 300 | 17 |
| 16 | 1 | 333.3 | 9 | 0.3333 | 300 | 20 |
| 17 | 1 | 333.3 | 9 | 0.3333 | 300 | 16 |
| 18 | 1 | 333.3 | 9 | 0.3333 | 300 | 18 |
| 19 | 1 | 333.3 | 9 | 0.3333 | 300 | 14 |
| 20 | 1 | 333.3 | 9 | 0.3333 | 300 | 16 |
| 21 | 1 | 333.3 | 9 | 0.3333 | 300 | 20 |
| 22 | 1 | 333.3 | 9 | 0.3388 | 300 | 19 |
| 23 | 1 | 333.3 | 9 | 0.333g | 300 | 23 |
| 24 | 1 | 333.3 | 9 | 0.3333 | 300 | 17 |
| 25 | 1 | 333.3 | 9 | 0.3333 | 300 | 16 |
| 26 | 1 | 333.3 | 9 | 0.3333 | 300 | 13 |
| 27 | 1 | 333.3 | 9 | 0.3333 | 300 | 13 |
| 28 | 1 | 333.3 | 9 | 0.3333 | 300 | 18 |
| 29 | 1 | 333.3 | 9 | 0.3333 | 300 | 19 |
| 30 | 1 | 333.3 | 9 | 0.3333 | 300 | 20 |



7.2 Channel Loading Test Result

| Condition | Antenna | Modulation | Frequency(MHz) | Time On(ms) | Total Time(ms) | Radio(%) | Limit(%) | Result |
|-----------|---------|-----------------|----------------|-------------|----------------|----------|----------|--------|
| NVNT | ANT1 | 802.11a | 5260 | 133.74 | 500 | 26.75 | 17 | Pass |
| NVNT | ANT1 | 802.11n(HT40) | 5270 | 30.44 | 100 | 30.44 | 17 | Pass |
| NVNT | ANT1 | 802.11ac(VHT80) | 5290 | 35.93 | 100 | 35.93 | 17 | Pass |







7.3 NII Detection Bandwidth Measurement

7.3.1 Test Limit

Minimum 100% of the NII 99% transmission power bandwidth. During the U-NII Detection Bandwidth detection test, each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.3.2 Test Procedure

1. Adjust the equipment to produce a single Burst of any one of the Short Pulse Radar Types 0-4 in Table 3-5 at the center frequency of the EUT Operating Channel at the specified DFS Detection Threshold level.
2. The generating equipment is configured as shown in the Conducted Test Setup above section 3.5.
3. The EUT is set up as a stand-alone device (no associated Client or Master, as appropriate) and no traffic. Frame based systems will be set to a talk/listen ratio reflecting the worst case (maximum) that is user configurable during this test.
4. Generate a single radar Burst, and note the response of the EUT. Repeat for a minimum of 10 trials. The EUT must detect the Radar Waveform using the specified U-NII Detection Bandwidth criterion shown in Table 3-5. In cases where the channel bandwidth may exceed past the DFS band edge on specific channels (i.e., 802.11ac or wideband frame based systems) select a channel that has the entire emission bandwidth within the DFS band. If this is not possible, test the detection BW to the DFS band edge.
5. Starting at the center frequency of the UUT operating Channel, increase the radar frequency in 5 MHz steps, repeating the above test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion specified in Table 3-3. Repeat this measurement in 1MHz steps at frequencies 5 MHz below where the detection rate begins to fall. Record the highest frequency (denote as FH) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies above FH is not required to demonstrate compliance.
6. Starting at the center frequency of the EUT operating Channel, decrease the radar frequency in 1 MHz steps, repeating the above item 4 test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion. Record the lowest frequency (denote as FL) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies below FL is not required to demonstrate compliance.
7. The U-NII Detection Bandwidth is calculated as follows: U-NII Detection Bandwidth = FH – FL
8. The U-NII Detection Bandwidth must be at least 100% of the EUT transmitter 99% power, otherwise, the EUT does not comply with DFS requirements.

7.3.3 Test Result:

Please Refer to Appendix for Details.

7.4 Initial Channel Availability Check Time Measurement

7.4.1. Test Limit

The EUT shall perform a Channel Availability Check to ensure that there is no radar operating on the channel. After power-up sequence, receive at least 1 minute on the intended operating frequency.

7.4.2. Test Procedure

1. The U-NII devices will be powered on and be instructed to operate on the appropriate U-NII Channel that must incorporate DFS functions. At the same time the EUT is powered on, the spectrum analyzer will be set to zero span mode with a 3 MHz RBW and 3 MHz VBW on the Channel occupied by the radar (Chr) with a 2.5 minute sweep time. The spectrum analyzer's sweep will be started at the same time power is applied to the U-NII device.
2. The EUT should not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle.
3. Confirm that the EUT initiates transmission on the channel. Measurement system showing its nominal noise floor is marker1.

7.4.3. Test Result:

Please Refer to Appendix for Details.



7.5 Radar Burst at the Beginning of the Channel Availability Check Time Measurement

7.5.1. Test Limit

In beginning of the Channel Availability Check (CAC) Time, radar is detected on this channel, select another intended channel and perform a CAC on that channel.

7.5.2. Test Procedure

1. The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB occurs at the beginning of the Channel Availability Check Time.
2. The EUT is in completion power-up cycle (from T0 to T1). T1 denotes the instant when the EUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than T1 + 60 seconds. A single Burst of one of Short Pulse Radar Types 0-4 at DFS Detection Threshold + 1 dB will commence within a 6 second window starting at T1.
3. Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions will continue for 2.5 minutes after the radar Burst has been generated. Verify that during the 2.5 minutes measurement window no EUT transmissions occurred.

7.5.3. Test Result:

Please Refer to Appendix for Details.

7.6 Radar Burst at the End of the Channel Availability Check Time Measurement

7.6.1. Test Limit

In the end of Channel Availability Check (CAC) Time, radar is detected on this channel, select another intended channel and perform a CAC on that channel.

7.6.2. Test Procedure

1. The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB occurs at the beginning of the Channel Availability Check Time.
2. The EUT is powered on at T0. T1 denotes the instant when the EUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than T1 + 60 seconds. A single Burst of one of Short Pulse Radar Types 0-4 at DFS Detection Threshold + 1 dB will commence within a 6 second window starting at T1 + 54 seconds.
3. Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions will continue for 2.5 minutes after the radar Burst has been generated. Verify that during the 2.5 minutes measurement window no EUT transmissions occurred.

7.6.3. Test Result:

Please Refer to Appendix for Details.



7.7 In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period Measurement

7.7.1. Test Limit

The EUT has In-Service Monitoring function to continuously monitor the radar signals. If the radar is detected, must leave the channel (Shutdown). The Channel Move Time to cease all transmissions on the current channel upon detection of a Radar Waveform above the DFS Detection Threshold within 10 sec. The total duration of Channel Closing Transmission Time is 260ms, consisting of data signals and the aggregate of control signals, by a U-NII device during the Channel Move Time. The Non-Occupancy Period time is 30 minute during which a Channel will not be utilized after a Radar Waveform is detected on that Channel.

7.7.2. Test Procedure Used

1. The test should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0.
2. When the radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device. A U-NII device operating as a Master Device will associate with the Client Device at Channel. Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test. At time T0 the Radar Waveform generator sends a Burst of pulses for each of the radar types at Detection Threshold + 1dB.
3. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the EUT during the observation time (Channel Move Time).
4. Measurement of the aggregate duration of the Channel Closing Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (1.5ms) = S (12 sec) / B (8000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is the sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C = N X Dwell; where C is the Closing Time, N is the number of spectrum analyzer sampling bins showing a U-NII transmission and Dwell is the dwell time per bin.
5. Measure the EUT for more than 30 minutes following the channel close/move time to verify that the EUT does not resume any transmissions on this Channel.

7.7.3. Test Result:

Please Refer to Appendix for Details.



7.8 Performance Check Measurement

7.8.1. Test Limit

The minimum percentage of successful detection requirements found in below table when a radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device (In- Service Monitoring).

| Radar Type | Minimum Number of Trails | Minimum Percentage of successful Detection(Pd) |
|-----------------------------|--------------------------|--|
| 1 | 30 | 60% |
| 2 | 30 | 60% |
| 3 | 30 | 60% |
| 4 | 30 | 60% |
| Aggregate (Radar Types 1-4) | 120 | 80% |
| 5 | 30 | 80% |
| 6 | 30 | 70% |

Note: The percentage of successful detection is calculated by:
(Total Waveform Detections / Total Waveform Trails) * 100 = Probability of Detection Radar Waveform In addition an aggregate minimum percentage of successful detection across all Short Pulse Radar Types 1-4 is required and is calculated as follows: (Pd1 + Pd2 + Pd3 + Pd4) / 4.

7.8.2. Test Procedure

1. Stream the MPEG test file from the Master Device to the Client Device on the test Channel for the entire period of the test.
2. At time T0 the Radar Waveform generator sends the individual waveform for each of the Radar Types 1-6, at levels equal to the DFS Detection Threshold + 1dB, on the Operating Channel.
3. 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 Types 0 to ensure detection occurs.
4. 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.
5. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.
6. The Minimum number of trails, minimum percentage of successful detection and the average minimum percentage of successful detection are found in below table.

7.8.3. Test Result:

Please Refer to Appendix for Details.



8. TEST SETUP PHOTOGRAPH



9. PHOTOS OF THE EUT

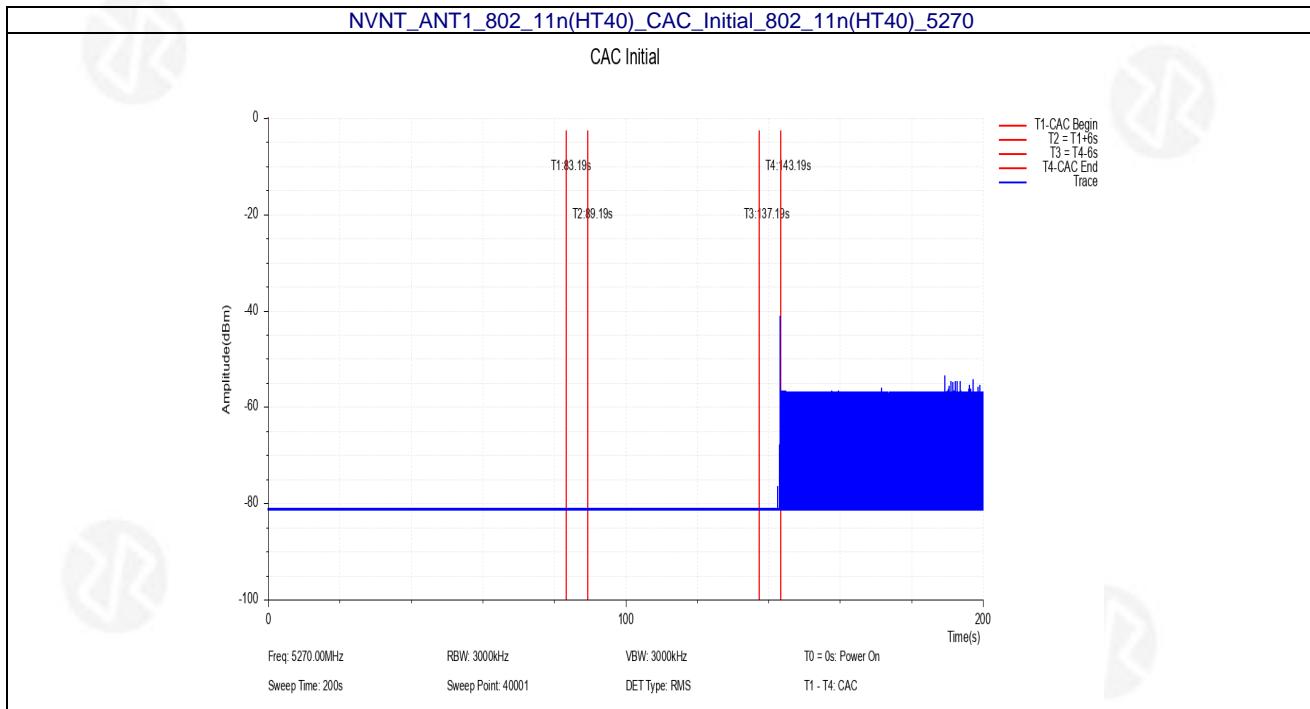
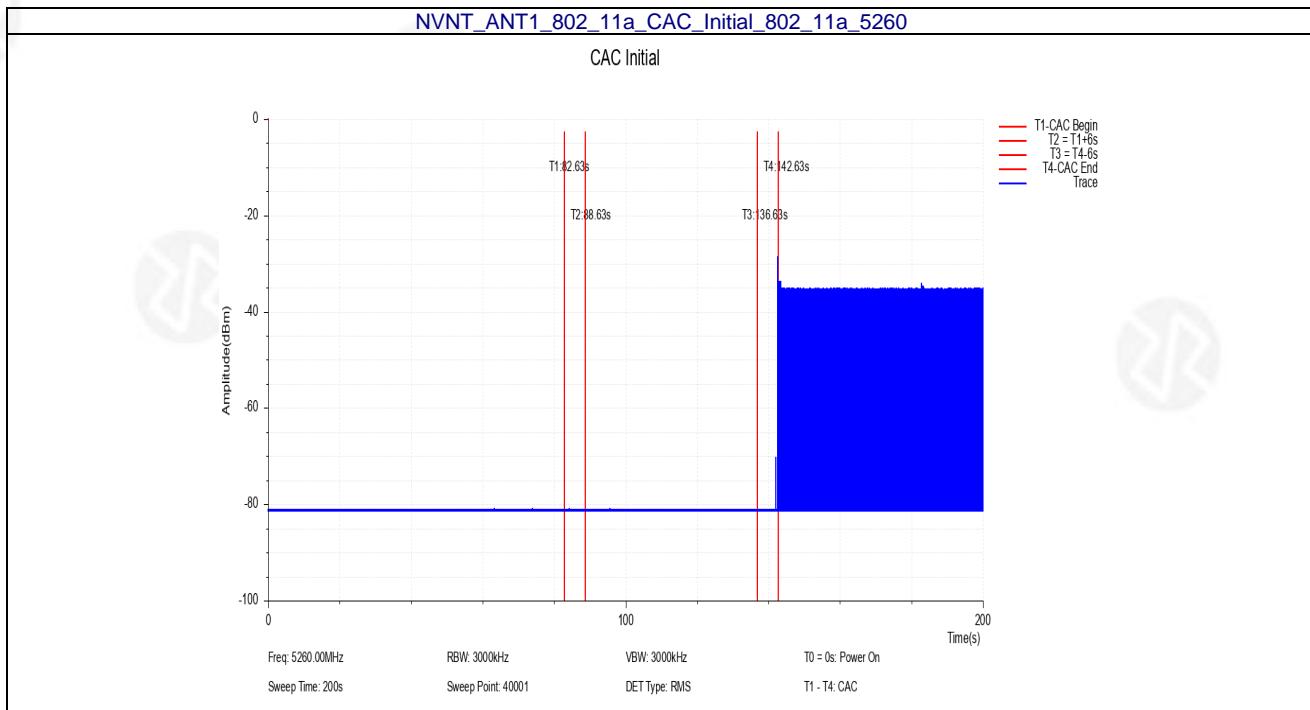
PLEASE REFER TO REPORT NO.: POCE240305009RL001 FOR DETAILS.

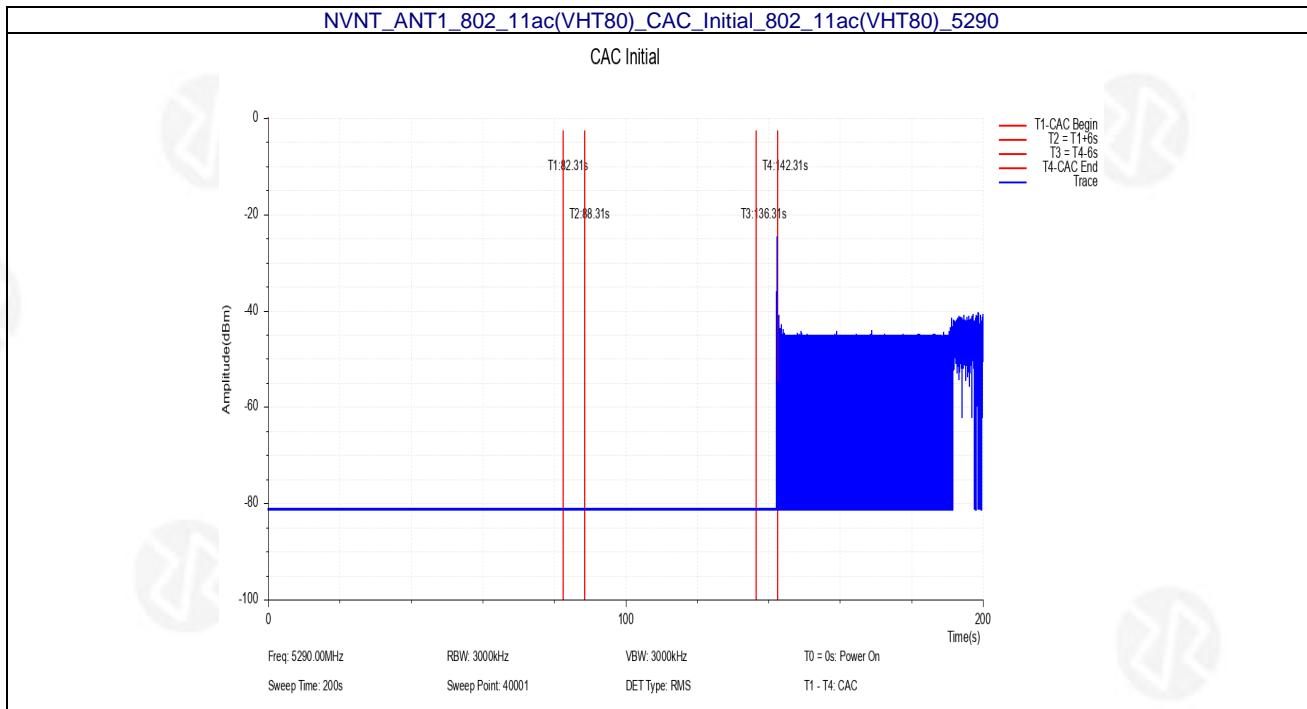


APPENDIX

1. CAC Initial

| Condition | Antenna | Modulation | Frequency (MHz) | T1 Power Up Time(s) | T4 Initial Time(s) | CAC(s) | Limit(s) | Result |
|-----------|---------|-----------------|-----------------|---------------------|--------------------|--------|----------|--------|
| NVNT | ANT1 | 802.11a | 5260.00 | 82.63 | 142.63 | 60.00 | 60 | Pass |
| NVNT | ANT1 | 802.11n(HT40) | 5270.00 | 83.19 | 143.19 | 60.00 | 60 | Pass |
| NVNT | ANT1 | 802.11ac(VHT80) | 5290.00 | 82.31 | 142.31 | 60.00 | 60 | Pass |

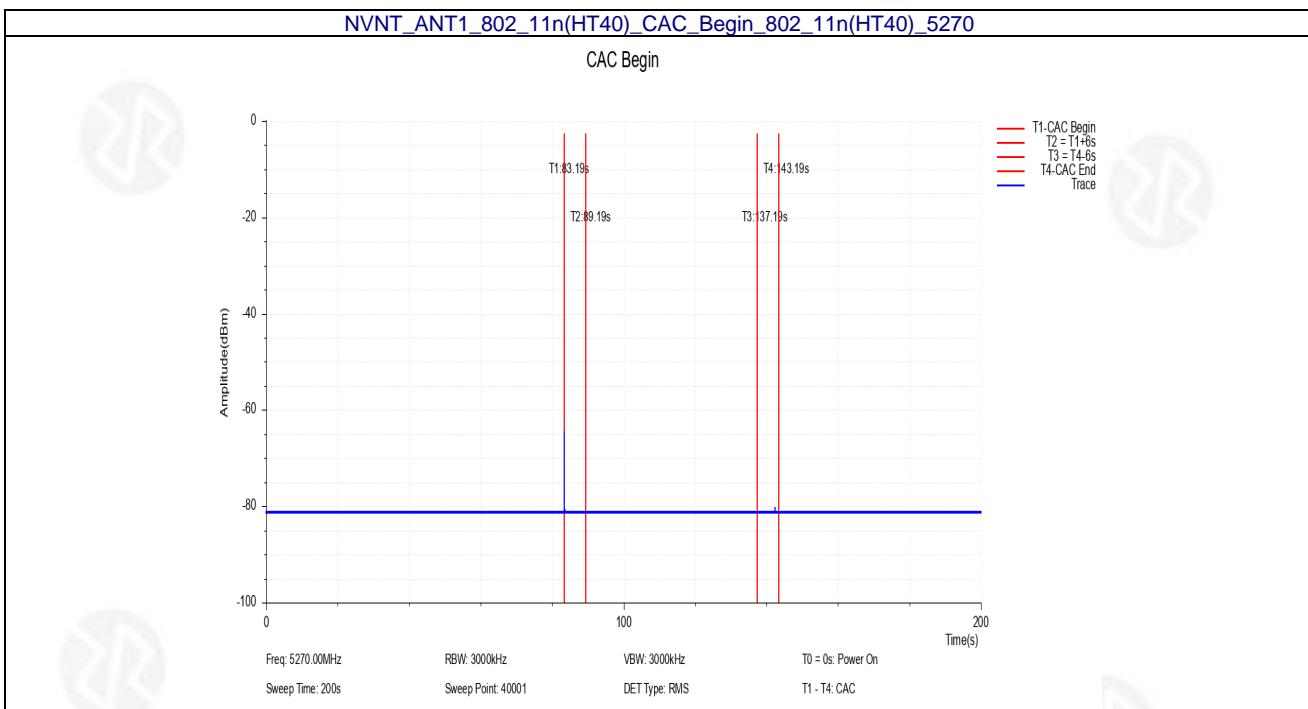
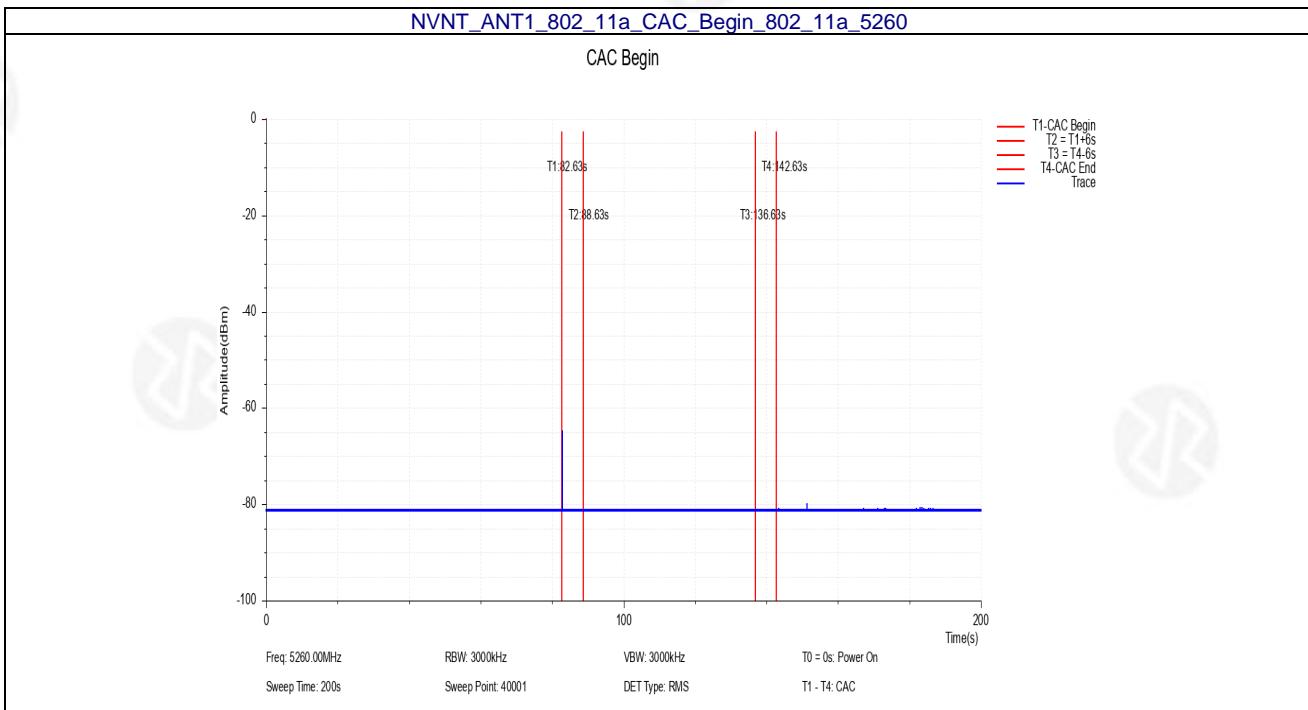


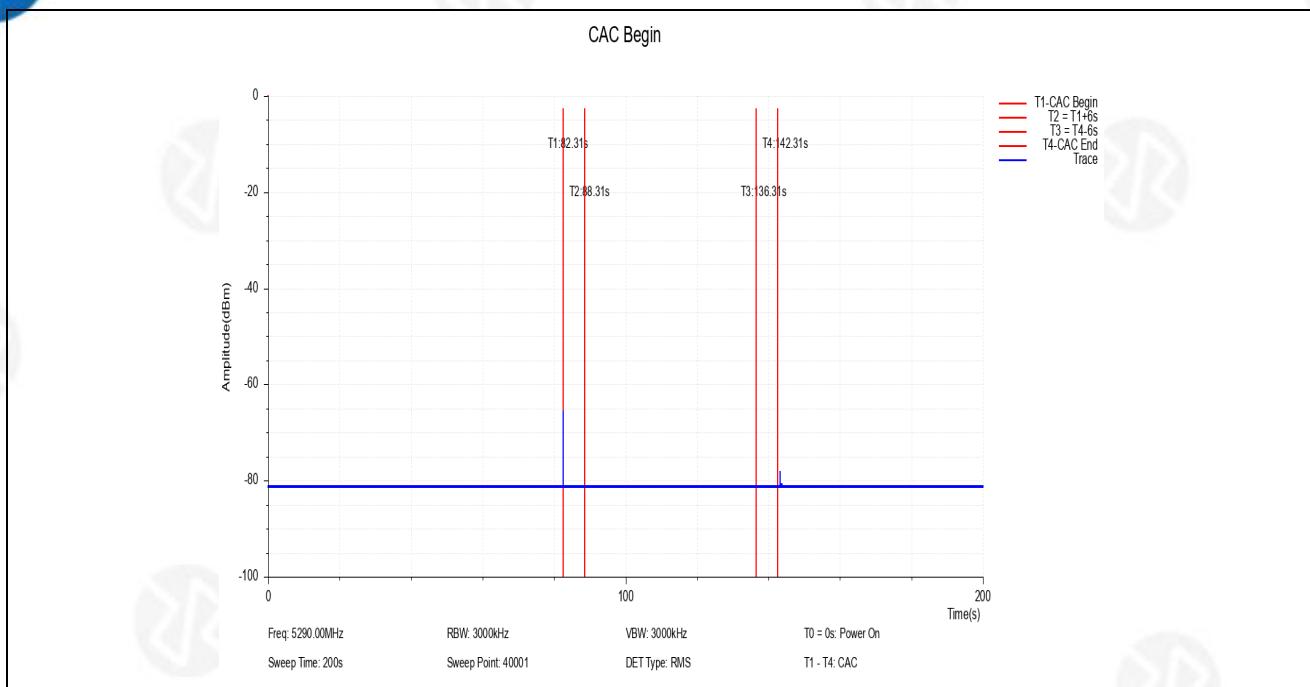




2. CAC Begin

| Condition | Antenna | Modulation | Frequency (MHz) | Result |
|-----------|---------|-----------------|-----------------|--------|
| NVNT | ANT1 | 802.11a | 5260.00 | Pass |
| NVNT | ANT1 | 802.11n(HT40) | 5270.00 | Pass |
| NVNT | ANT1 | 802.11ac(VHT80) | 5290.00 | Pass |

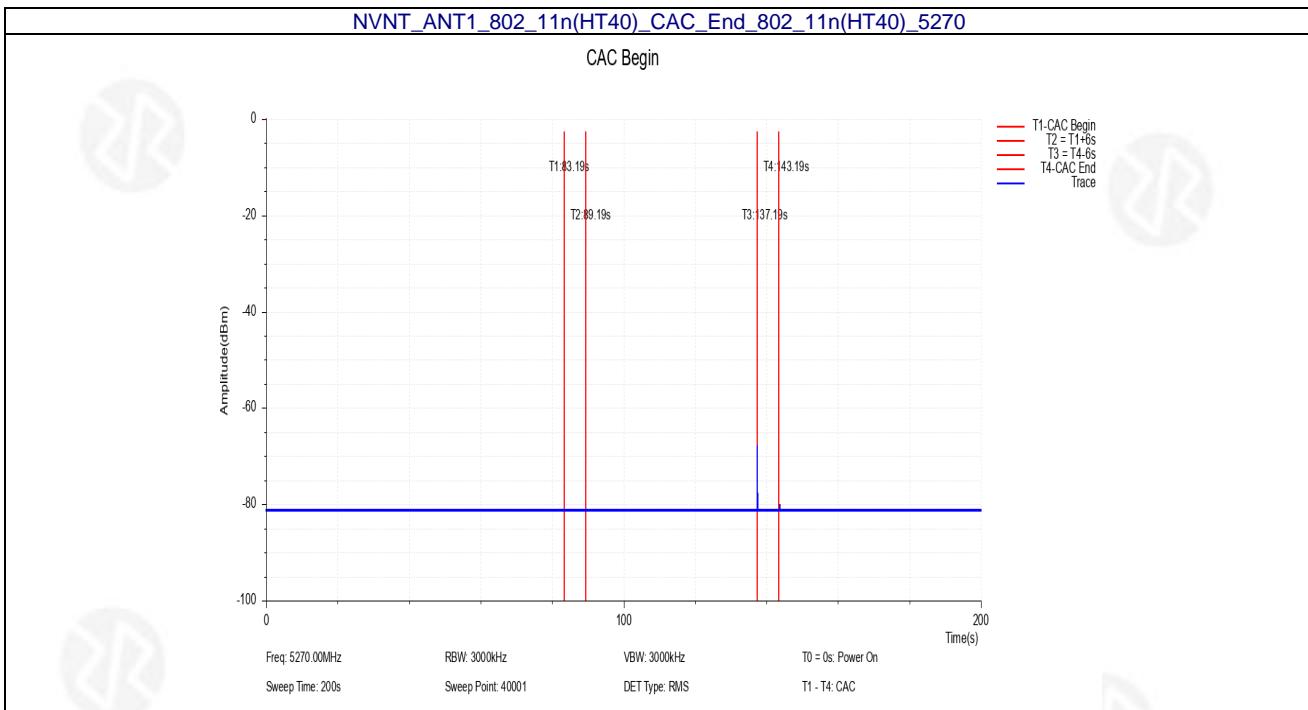
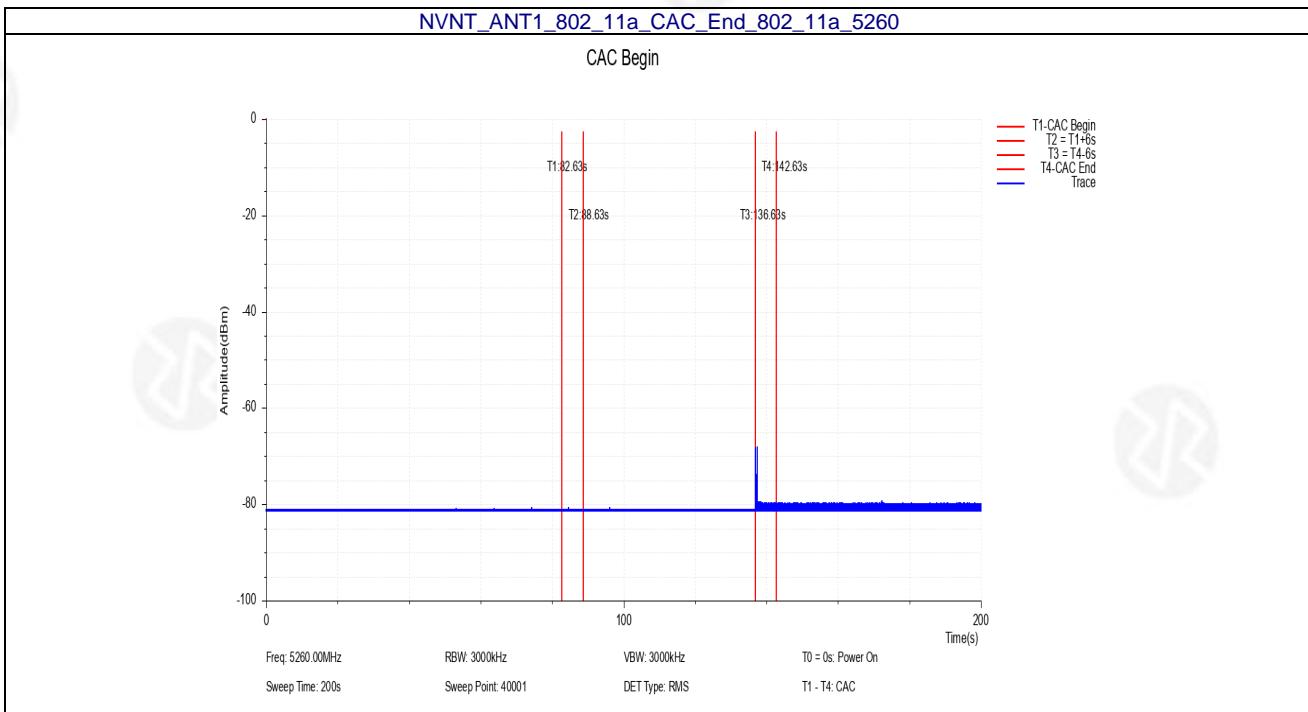


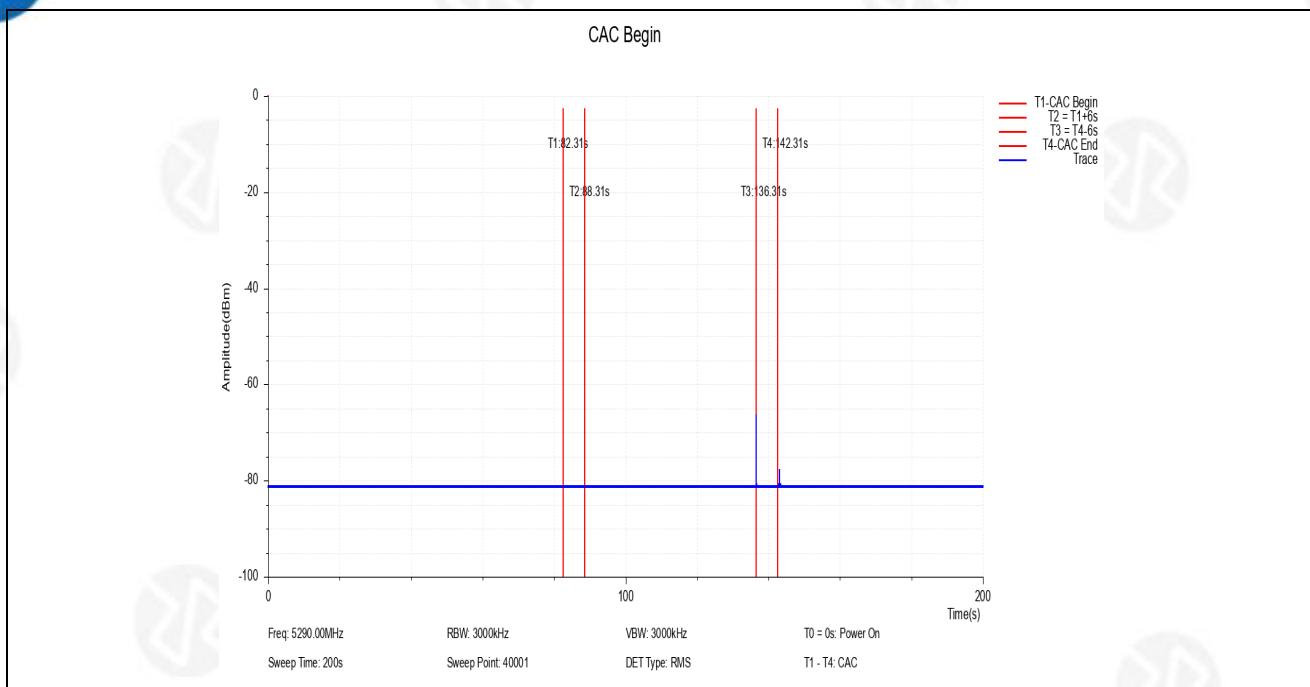




3. CAC End

| Condition | Antenna | Modulation | Frequency (MHz) | Result |
|-----------|---------|-----------------|-----------------|--------|
| NVNT | ANT1 | 802.11a | 5260.00 | Pass |
| NVNT | ANT1 | 802.11n(HT40) | 5270.00 | Pass |
| NVNT | ANT1 | 802.11ac(VHT80) | 5290.00 | Pass |

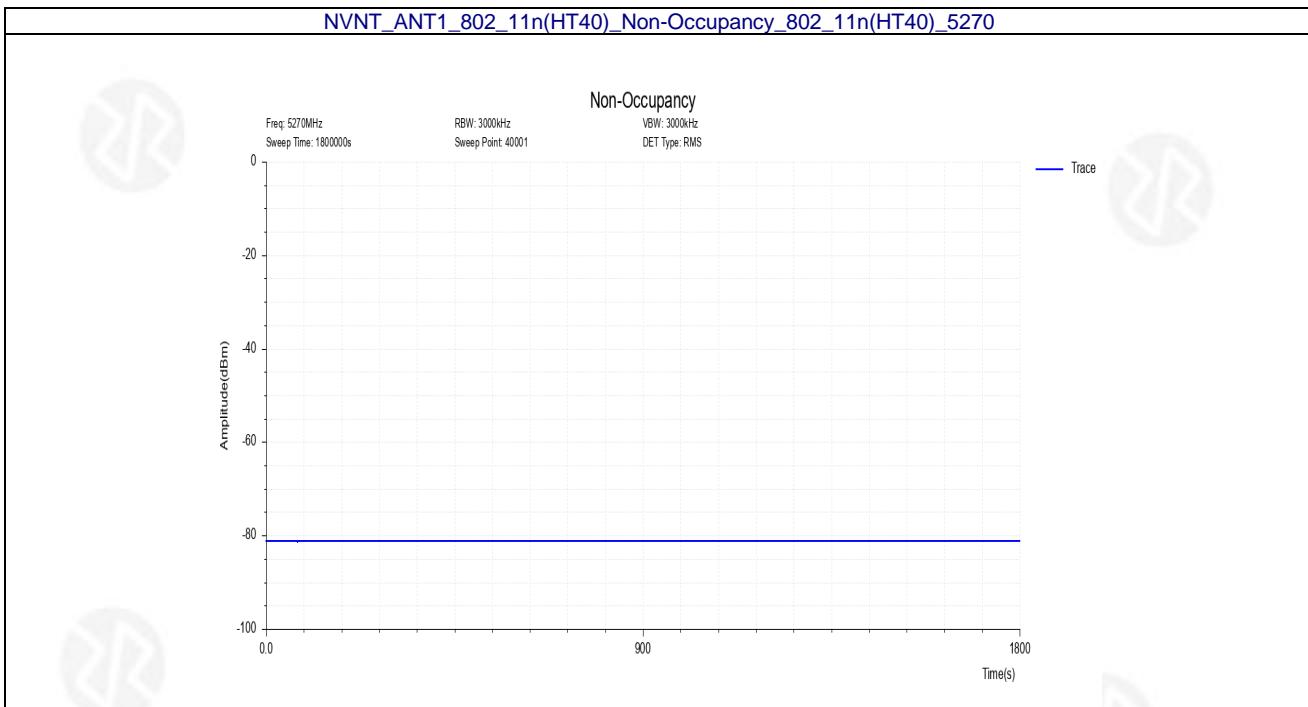
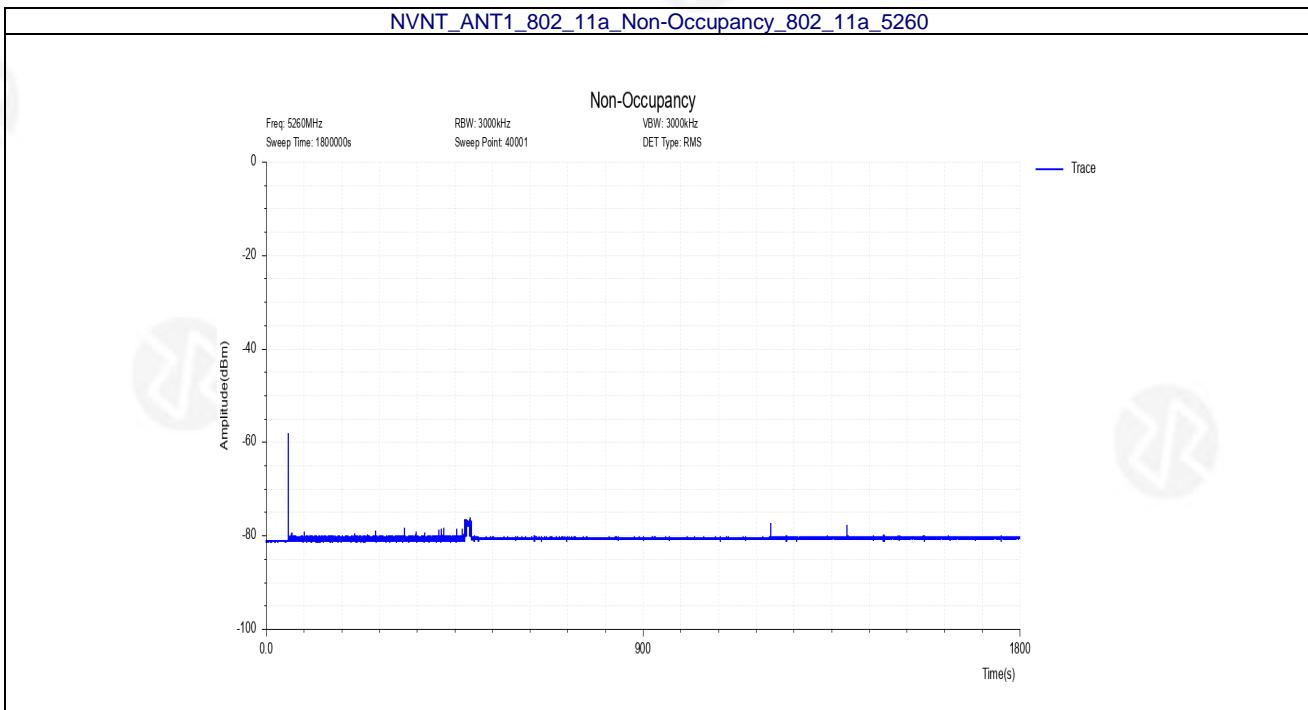


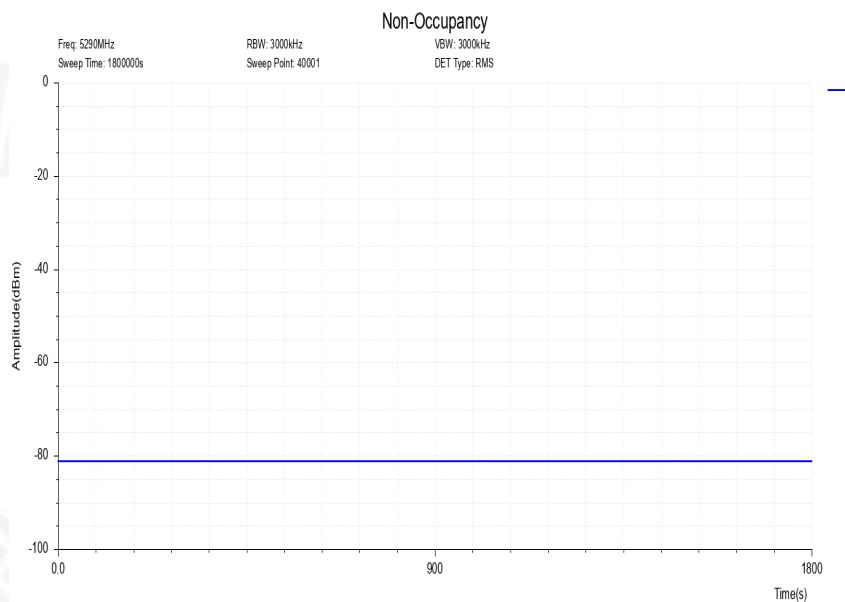




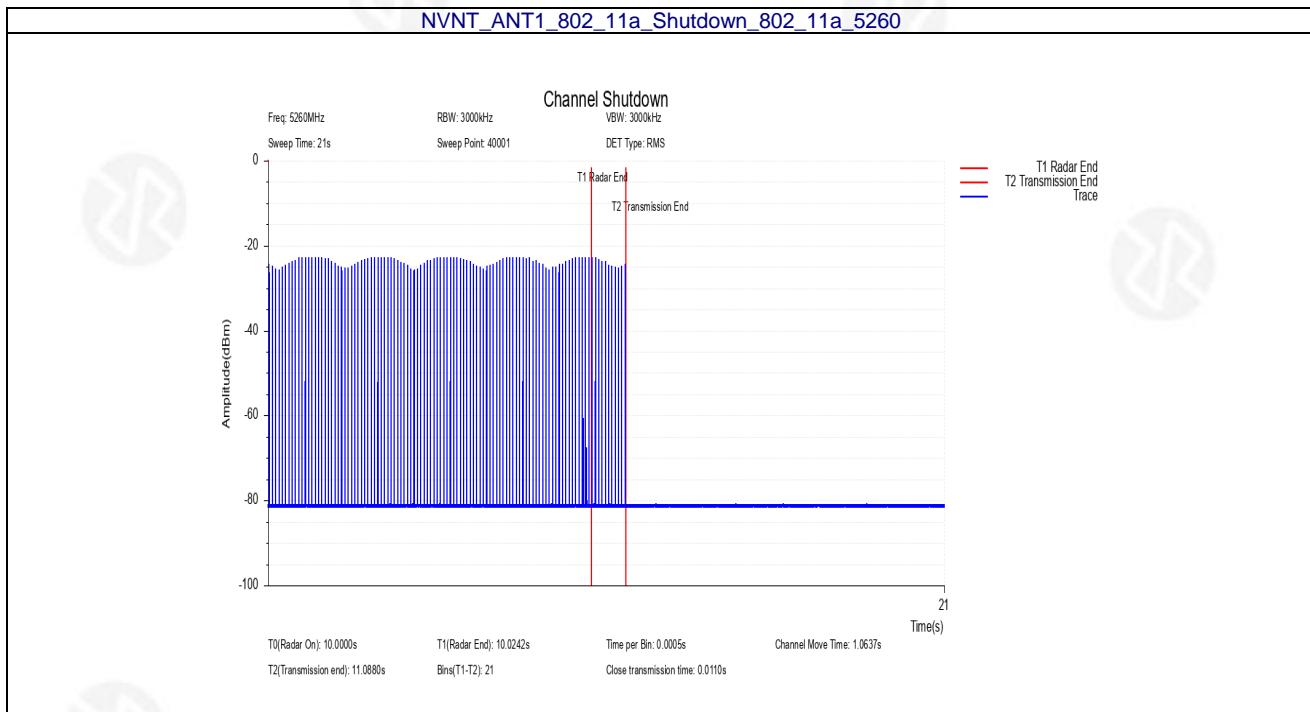
4. Shutdown&Non-Occupancy

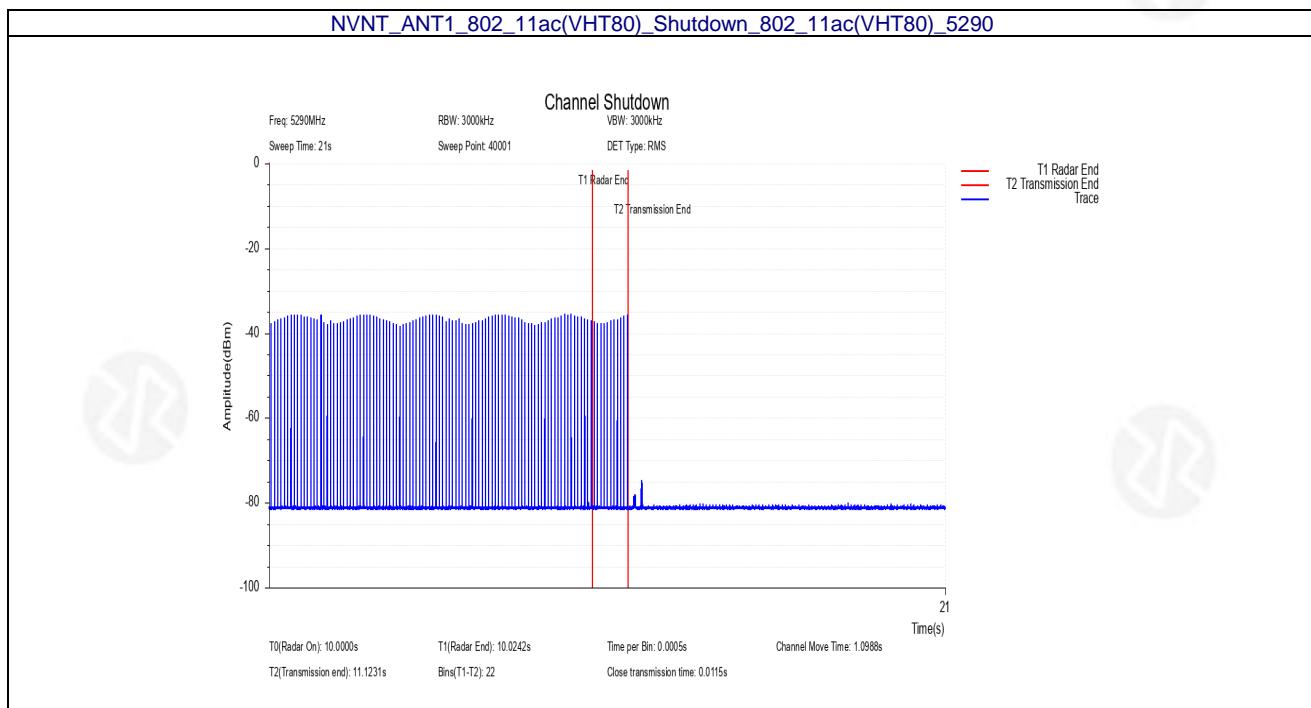
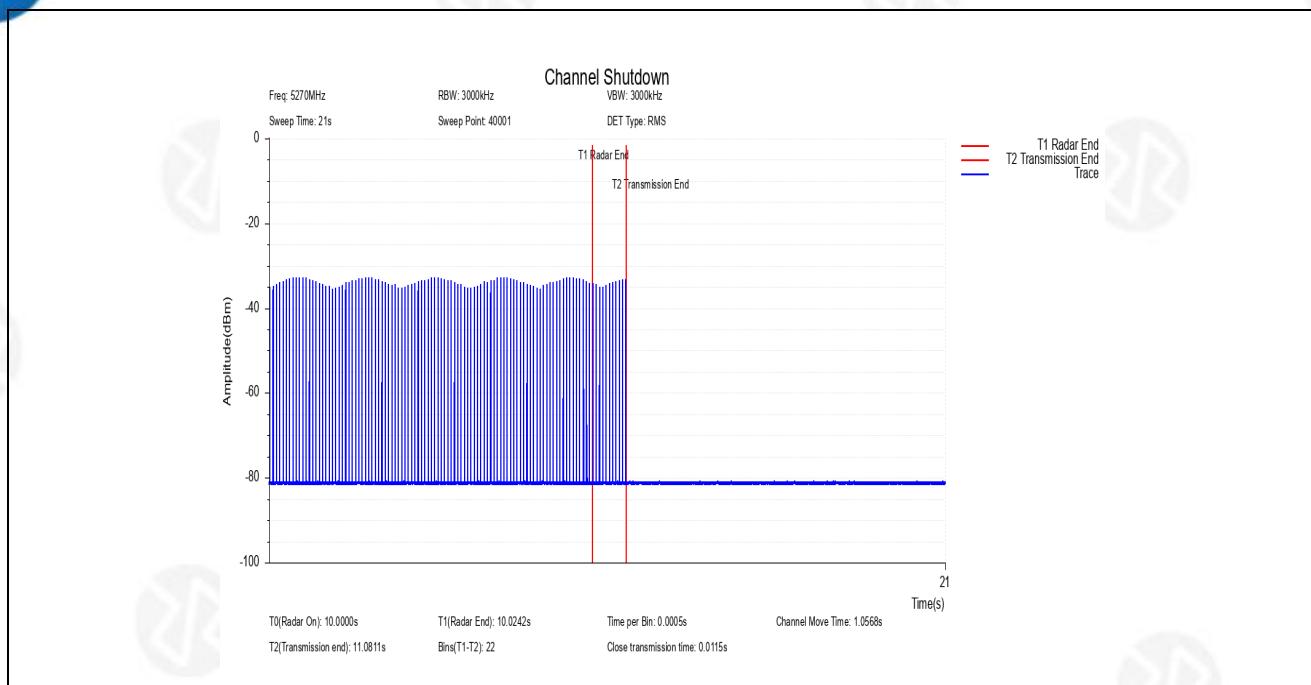
| Condition | Antenna | Modulation | Frequency (MHz) | Pulse NO. | Limit | Result |
|-----------|---------|-----------------|-----------------|-----------|-------|--------|
| NVNT | ANT1 | 802.11a | 5260 | 0 | 0 | Pass |
| NVNT | ANT1 | 802.11n(HT40) | 5270 | 0 | 0 | Pass |
| NVNT | ANT1 | 802.11ac(VHT80) | 5290 | 0 | 0 | Pass |





| Condition | Antenna | Mode | Frequency (MHz) | Channel Move Time(s) | Channel Move Time Limit(s) | Close Transmission Time (s) | Close Transmission Time Limit(s) | Result |
|-----------|---------|-----------------|-----------------|----------------------|----------------------------|-----------------------------|----------------------------------|--------|
| NVNT | ANT1 | 802.11a | 5260 | 1.0637 | 10 | 0.0110 | 1 | Pass |
| NVNT | ANT1 | 802.11n(HT40) | 5270 | 1.0569 | 10 | 0.0116 | 1 | Pass |
| NVNT | ANT1 | 802.11ac(VHT80) | 5290 | 1.0989 | 10 | 0.0116 | 1 | Pass |

**NVNT_ANT1_802_11n(HT40)_Shutdown_802_11n(HT40)_5270**



5. Detection Bandwidth

| EUT Frequency (MHz): 5260.00 Modulation: 802.11a | | | | | | | | | | | | |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|-------------------|----------|
| Radar Frequency (MHz) | Trial1 | Trial2 | Trial3 | Trial4 | Trial5 | Trial6 | Trial7 | Trial8 | Trial9 | Trial10 | Detection Rate(%) | Limit(%) |
| 5249 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | - | - |
| 5250 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 90.00 | 90 |
| 5251 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 90.00 | 90 |
| 5252 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5253 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 90.00 | 90 |
| 5254 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5255 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 90.00 | 90 |
| 5265 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5266 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 90.00 | 90 |
| 5267 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 90.00 | 90 |
| 5268 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5269 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 90.00 | 90 |
| 5270 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 90.00 | 90 |
| 5271 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | - | - |
| Detection Bandwidth:20M | | | | | | | | | | | | |
| 100% of EUT 99% Power Bandwidth: 18 | | | | | | | | | | | | |
| Detect Bandwidth = (5269) FH - (5251) FL= 18 MHz; The 99% channel bandwidth is 16.45MHz. (See the 99% BW section of the RF report for further measurement details)NII Detection Bandwidth Limit (MHz):16.45MHz x 100% = 16.45MHz. | | | | | | | | | | | | |
| "1" = Detection; "0" = No Detection | | | | | | | | | | | | |
| Test Result: Pass | | | | | | | | | | | | |

| EUT Frequency (MHz): 5270.00 Modulation: 802.11n(HT40) | | | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|-------------------|----------|
| Radar Frequency (MHz) | Trial1 | Trial2 | Trial3 | Trial4 | Trial5 | Trial6 | Trial7 | Trial8 | Trial9 | Trial10 | Detection Rate(%) | Limit(%) |
| 5249 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - |
| 5250 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 90.00 | 90 |
| 5251 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5252 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5253 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 90.00 | 90 |
| 5254 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5255 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5260 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5265 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5275 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5280 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5285 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5286 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5287 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 90.00 | 90 |
| 5288 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5289 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5290 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 90.00 | 90 |
| 5291 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - |
| Detection Bandwidth:40M | | | | | | | | | | | | |
| 100% of EUT 99% Power Bandwidth: 38 | | | | | | | | | | | | |
| Detect Bandwidth = (5289) FH - (5251) FL= 38 MHz The 99% channel bandwidth is 36.09MHz. (See the 99% BW section of the RF report for further measurement details)NII Detection Bandwidth Limit (MHz):36.09MHz x 100% = 36.09MHz. | | | | | | | | | | | | |
| "1" = Detection; "0" = No Detection | | | | | | | | | | | | |
| Test Result: Pass | | | | | | | | | | | | |

| EUT Frequency (MHz): 5290.00 Modulation: 802.11ac(VHT80) | | | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|-------------------|----------|
| Radar Frequency (MHz) | Trial1 | Trial2 | Trial3 | Trial4 | Trial5 | Trial6 | Trial7 | Trial8 | Trial9 | Trial10 | Detection Rate(%) | Limit(%) |
| 5249 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - |
| 5250 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5251 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5252 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5253 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5254 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5255 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |

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| | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|--------|----|
| 5260 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5265 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5270 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5275 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5280 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5285 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 90.00 | 90 |
| 5295 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5300 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5305 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5310 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 90.00 | 90 |
| 5315 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5320 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5325 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5326 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5327 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 90.00 | 90 |
| 5328 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5329 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5330 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100.00 | 90 |
| 5331 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - |
| Detection Bandwidth:80M | | | | | | | | | | | | |
| 100% of EUT 99% Power Bandwidth: 78 | | | | | | | | | | | | |
| Detect Bandwidth = (5329) FH - (5251) FL= 78 MHz | | | | | | | | | | | | |
| The 99% channel bandwidth is 76.12MHz. (See the 99% BW section of the RF report for further measurement details)NII Detection Bandwidth Limit (MHz):16.45MHz x 100% =76.12MHz. | | | | | | | | | | | | |
| "1" = Detection; "0" = No Detection | | | | | | | | | | | | |
| Test Result: Pass | | | | | | | | | | | | |



6. Statistical Performance Check

| Frequency(MHz) | Modulation | Radar Type | Result(%) | Limit(%) | Verdict |
|----------------|-----------------|----------------------------|-----------|----------|---------|
| 5260.00 | 802.11a | Type1 | 90.00 | 60 | Pass |
| 5260.00 | 802.11a | Type2 | 90.00 | 60 | Pass |
| 5260.00 | 802.11a | Type3 | 93.33 | 60 | Pass |
| 5260.00 | 802.11a | Type4 | 93.33 | 60 | Pass |
| 5260.00 | 802.11a | Aggregate(Radar Types 1_4) | 91.67 | 80 | Pass |
| 5260.00 | 802.11a | Type5 | 96.67 | 80 | Pass |
| 5260.00 | 802.11a | Type6 | 93.33 | 70 | Pass |
| 5270.00 | 802.11n(HT40) | Type1 | 96.67 | 60 | Pass |
| 5270.00 | 802.11n(HT40) | Type2 | 93.33 | 60 | Pass |
| 5270.00 | 802.11n(HT40) | Type3 | 96.67 | 60 | Pass |
| 5270.00 | 802.11n(HT40) | Type4 | 96.67 | 60 | Pass |
| 5270.00 | 802.11n(HT40) | Aggregate(Radar Types 1_4) | 95.00 | 80 | Pass |
| 5270.00 | 802.11n(HT40) | Type5 | 90.00 | 80 | Pass |
| 5270.00 | 802.11n(HT40) | Type6 | 90.00 | 70 | Pass |
| 5290.00 | 802.11ac(VHT80) | Type1 | 100.00 | 60 | Pass |
| 5290.00 | 802.11ac(VHT80) | Type2 | 90.00 | 60 | Pass |
| 5290.00 | 802.11ac(VHT80) | Type3 | 93.33 | 60 | Pass |
| 5290.00 | 802.11ac(VHT80) | Type4 | 90.00 | 60 | Pass |
| 5290.00 | 802.11ac(VHT80) | Aggregate(Radar Types 1_4) | 93.33 | 80 | Pass |
| 5290.00 | 802.11ac(VHT80) | Type5 | 96.67 | 80 | Pass |
| 5290.00 | 802.11ac(VHT80) | Type6 | 90.00 | 70 | Pass |

| Frequency(MHz) | Modulation | Radar Type | Trial# | Detection(YES/NO) |
|----------------|------------|------------|--------|-------------------|
| 5260.00 | 802.11a | Type1 | 00 | YES |
| 5260.00 | 802.11a | Type1 | 01 | YES |
| 5260.00 | 802.11a | Type1 | 02 | NO |
| 5260.00 | 802.11a | Type1 | 03 | YES |
| 5260.00 | 802.11a | Type1 | 04 | YES |
| 5260.00 | 802.11a | Type1 | 05 | NO |
| 5260.00 | 802.11a | Type1 | 06 | YES |
| 5260.00 | 802.11a | Type1 | 07 | YES |
| 5260.00 | 802.11a | Type1 | 08 | YES |
| 5260.00 | 802.11a | Type1 | 09 | YES |
| 5260.00 | 802.11a | Type1 | 10 | YES |
| 5260.00 | 802.11a | Type1 | 11 | NO |
| 5260.00 | 802.11a | Type1 | 12 | YES |
| 5260.00 | 802.11a | Type1 | 13 | YES |
| 5260.00 | 802.11a | Type1 | 14 | YES |
| 5260.00 | 802.11a | Type1 | 15 | YES |
| 5260.00 | 802.11a | Type1 | 16 | YES |
| 5260.00 | 802.11a | Type1 | 17 | YES |
| 5260.00 | 802.11a | Type1 | 18 | YES |
| 5260.00 | 802.11a | Type1 | 19 | YES |
| 5260.00 | 802.11a | Type1 | 20 | YES |
| 5260.00 | 802.11a | Type1 | 21 | YES |
| 5260.00 | 802.11a | Type1 | 22 | YES |
| 5260.00 | 802.11a | Type1 | 23 | YES |
| 5260.00 | 802.11a | Type1 | 24 | YES |
| 5260.00 | 802.11a | Type1 | 25 | YES |
| 5260.00 | 802.11a | Type1 | 26 | YES |
| 5260.00 | 802.11a | Type1 | 27 | YES |
| 5260.00 | 802.11a | Type1 | 28 | YES |
| 5260.00 | 802.11a | Type1 | 29 | YES |
| 5260.00 | 802.11a | Type2 | 00 | YES |
| 5260.00 | 802.11a | Type2 | 01 | YES |
| 5260.00 | 802.11a | Type2 | 02 | YES |
| 5260.00 | 802.11a | Type2 | 03 | YES |
| 5260.00 | 802.11a | Type2 | 04 | YES |
| 5260.00 | 802.11a | Type2 | 05 | YES |
| 5260.00 | 802.11a | Type2 | 06 | YES |
| 5260.00 | 802.11a | Type2 | 07 | NO |
| 5260.00 | 802.11a | Type2 | 08 | YES |
| 5260.00 | 802.11a | Type2 | 09 | YES |
| 5260.00 | 802.11a | Type2 | 10 | YES |
| 5260.00 | 802.11a | Type2 | 11 | YES |
| 5260.00 | 802.11a | Type2 | 12 | YES |
| 5260.00 | 802.11a | Type2 | 13 | YES |
| 5260.00 | 802.11a | Type2 | 14 | YES |
| 5260.00 | 802.11a | Type2 | 15 | YES |

| | | | | |
|---------|---------|-------|----|-----|
| 5260.00 | 802.11a | Type2 | 16 | YES |
| 5260.00 | 802.11a | Type2 | 17 | YES |
| 5260.00 | 802.11a | Type2 | 18 | YES |
| 5260.00 | 802.11a | Type2 | 19 | YES |
| 5260.00 | 802.11a | Type2 | 20 | NO |
| 5260.00 | 802.11a | Type2 | 21 | YES |
| 5260.00 | 802.11a | Type2 | 22 | YES |
| 5260.00 | 802.11a | Type2 | 23 | YES |
| 5260.00 | 802.11a | Type2 | 24 | YES |
| 5260.00 | 802.11a | Type2 | 25 | YES |
| 5260.00 | 802.11a | Type2 | 26 | YES |
| 5260.00 | 802.11a | Type2 | 27 | NO |
| 5260.00 | 802.11a | Type2 | 28 | YES |
| 5260.00 | 802.11a | Type2 | 29 | YES |
| 5260.00 | 802.11a | Type3 | 00 | YES |
| 5260.00 | 802.11a | Type3 | 01 | NO |
| 5260.00 | 802.11a | Type3 | 02 | YES |
| 5260.00 | 802.11a | Type3 | 03 | YES |
| 5260.00 | 802.11a | Type3 | 04 | YES |
| 5260.00 | 802.11a | Type3 | 05 | YES |
| 5260.00 | 802.11a | Type3 | 06 | YES |
| 5260.00 | 802.11a | Type3 | 07 | YES |
| 5260.00 | 802.11a | Type3 | 08 | YES |
| 5260.00 | 802.11a | Type3 | 09 | YES |
| 5260.00 | 802.11a | Type3 | 10 | YES |
| 5260.00 | 802.11a | Type3 | 11 | YES |
| 5260.00 | 802.11a | Type3 | 12 | YES |
| 5260.00 | 802.11a | Type3 | 13 | YES |
| 5260.00 | 802.11a | Type3 | 14 | YES |
| 5260.00 | 802.11a | Type3 | 15 | YES |
| 5260.00 | 802.11a | Type3 | 16 | YES |
| 5260.00 | 802.11a | Type3 | 17 | YES |
| 5260.00 | 802.11a | Type3 | 18 | YES |
| 5260.00 | 802.11a | Type3 | 19 | YES |
| 5260.00 | 802.11a | Type3 | 20 | YES |
| 5260.00 | 802.11a | Type3 | 21 | YES |
| 5260.00 | 802.11a | Type3 | 22 | YES |
| 5260.00 | 802.11a | Type3 | 23 | YES |
| 5260.00 | 802.11a | Type3 | 24 | YES |
| 5260.00 | 802.11a | Type3 | 25 | YES |
| 5260.00 | 802.11a | Type3 | 26 | YES |
| 5260.00 | 802.11a | Type3 | 27 | YES |
| 5260.00 | 802.11a | Type3 | 28 | YES |
| 5260.00 | 802.11a | Type3 | 29 | NO |
| 5260.00 | 802.11a | Type4 | 00 | YES |
| 5260.00 | 802.11a | Type4 | 01 | YES |
| 5260.00 | 802.11a | Type4 | 02 | YES |
| 5260.00 | 802.11a | Type4 | 03 | YES |
| 5260.00 | 802.11a | Type4 | 04 | YES |
| 5260.00 | 802.11a | Type4 | 05 | YES |
| 5260.00 | 802.11a | Type4 | 06 | YES |
| 5260.00 | 802.11a | Type4 | 07 | NO |
| 5260.00 | 802.11a | Type4 | 08 | NO |
| 5260.00 | 802.11a | Type4 | 09 | NO |
| 5260.00 | 802.11a | Type4 | 10 | YES |
| 5260.00 | 802.11a | Type4 | 11 | YES |
| 5260.00 | 802.11a | Type4 | 12 | YES |
| 5260.00 | 802.11a | Type4 | 13 | NO |
| 5260.00 | 802.11a | Type4 | 14 | YES |
| 5260.00 | 802.11a | Type4 | 15 | NO |
| 5260.00 | 802.11a | Type4 | 16 | YES |
| 5260.00 | 802.11a | Type4 | 17 | YES |
| 5260.00 | 802.11a | Type4 | 18 | NO |
| 5260.00 | 802.11a | Type4 | 19 | YES |
| 5260.00 | 802.11a | Type4 | 20 | YES |
| 5260.00 | 802.11a | Type4 | 21 | YES |
| 5260.00 | 802.11a | Type4 | 22 | YES |
| 5260.00 | 802.11a | Type4 | 23 | YES |
| 5260.00 | 802.11a | Type4 | 24 | YES |
| 5260.00 | 802.11a | Type4 | 25 | YES |
| 5260.00 | 802.11a | Type4 | 26 | YES |
| 5260.00 | 802.11a | Type4 | 27 | YES |
| 5260.00 | 802.11a | Type4 | 28 | YES |
| 5260.00 | 802.11a | Type4 | 29 | YES |
| 5260.00 | 802.11a | Type5 | 00 | YES |

| | | | | |
|---------|---------------|-------|----|-----|
| 5260.00 | 802.11a | Type5 | 01 | YES |
| 5260.00 | 802.11a | Type5 | 02 | YES |
| 5260.00 | 802.11a | Type5 | 03 | YES |
| 5260.00 | 802.11a | Type5 | 04 | YES |
| 5260.00 | 802.11a | Type5 | 05 | YES |
| 5260.00 | 802.11a | Type5 | 06 | YES |
| 5260.00 | 802.11a | Type5 | 07 | YES |
| 5260.00 | 802.11a | Type5 | 08 | YES |
| 5260.00 | 802.11a | Type5 | 09 | YES |
| 5260.00 | 802.11a | Type5 | 10 | YES |
| 5260.00 | 802.11a | Type5 | 11 | YES |
| 5260.00 | 802.11a | Type5 | 12 | YES |
| 5260.00 | 802.11a | Type5 | 13 | NO |
| 5260.00 | 802.11a | Type5 | 14 | YES |
| 5260.00 | 802.11a | Type5 | 15 | YES |
| 5260.00 | 802.11a | Type5 | 16 | YES |
| 5260.00 | 802.11a | Type5 | 17 | YES |
| 5260.00 | 802.11a | Type5 | 18 | YES |
| 5260.00 | 802.11a | Type5 | 19 | YES |
| 5260.00 | 802.11a | Type5 | 20 | YES |
| 5260.00 | 802.11a | Type5 | 21 | YES |
| 5260.00 | 802.11a | Type5 | 22 | NO |
| 5260.00 | 802.11a | Type5 | 23 | YES |
| 5260.00 | 802.11a | Type5 | 24 | YES |
| 5260.00 | 802.11a | Type5 | 25 | YES |
| 5260.00 | 802.11a | Type5 | 26 | YES |
| 5260.00 | 802.11a | Type5 | 27 | YES |
| 5260.00 | 802.11a | Type5 | 28 | YES |
| 5260.00 | 802.11a | Type5 | 29 | YES |
| 5260.00 | 802.11a | Type6 | 00 | YES |
| 5260.00 | 802.11a | Type6 | 01 | YES |
| 5260.00 | 802.11a | Type6 | 02 | YES |
| 5260.00 | 802.11a | Type6 | 03 | NO |
| 5260.00 | 802.11a | Type6 | 04 | YES |
| 5260.00 | 802.11a | Type6 | 05 | YES |
| 5260.00 | 802.11a | Type6 | 06 | YES |
| 5260.00 | 802.11a | Type6 | 07 | YES |
| 5260.00 | 802.11a | Type6 | 08 | YES |
| 5260.00 | 802.11a | Type6 | 09 | NO |
| 5260.00 | 802.11a | Type6 | 10 | YES |
| 5260.00 | 802.11a | Type6 | 11 | YES |
| 5260.00 | 802.11a | Type6 | 12 | YES |
| 5260.00 | 802.11a | Type6 | 13 | YES |
| 5260.00 | 802.11a | Type6 | 14 | YES |
| 5260.00 | 802.11a | Type6 | 15 | NO |
| 5260.00 | 802.11a | Type6 | 16 | YES |
| 5260.00 | 802.11a | Type6 | 17 | YES |
| 5260.00 | 802.11a | Type6 | 18 | YES |
| 5260.00 | 802.11a | Type6 | 19 | YES |
| 5260.00 | 802.11a | Type6 | 20 | YES |
| 5260.00 | 802.11a | Type6 | 21 | YES |
| 5260.00 | 802.11a | Type6 | 22 | YES |
| 5260.00 | 802.11a | Type6 | 23 | YES |
| 5260.00 | 802.11a | Type6 | 24 | YES |
| 5260.00 | 802.11a | Type6 | 25 | YES |
| 5260.00 | 802.11a | Type6 | 26 | YES |
| 5260.00 | 802.11a | Type6 | 27 | YES |
| 5260.00 | 802.11a | Type6 | 28 | YES |
| 5260.00 | 802.11a | Type6 | 29 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 00 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 01 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 02 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 03 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 04 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 05 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 06 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 07 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 08 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 09 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 10 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 11 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 12 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 13 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 14 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 15 | YES |

| | | | | |
|---------|---------------|-------|----|-----|
| 5270.00 | 802.11n(HT40) | Type1 | 16 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 17 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 18 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 19 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 20 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 21 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 22 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 23 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 24 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 25 | NO |
| 5270.00 | 802.11n(HT40) | Type1 | 26 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 27 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 28 | YES |
| 5270.00 | 802.11n(HT40) | Type1 | 29 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 00 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 01 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 02 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 03 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 04 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 05 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 06 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 07 | NO |
| 5270.00 | 802.11n(HT40) | Type2 | 08 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 09 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 10 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 11 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 12 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 13 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 14 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 15 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 16 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 17 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 18 | NO |
| 5270.00 | 802.11n(HT40) | Type2 | 19 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 20 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 21 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 22 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 23 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 24 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 25 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 26 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 27 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 28 | YES |
| 5270.00 | 802.11n(HT40) | Type2 | 29 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 00 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 01 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 02 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 03 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 04 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 05 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 06 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 07 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 08 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 09 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 10 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 11 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 12 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 13 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 14 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 15 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 16 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 17 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 18 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 19 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 20 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 21 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 22 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 23 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 24 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 25 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 26 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 27 | YES |
| 5270.00 | 802.11n(HT40) | Type3 | 28 | NO |
| 5270.00 | 802.11n(HT40) | Type3 | 29 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 00 | YES |

| | | | | |
|---------|---------------|-------|----|-----|
| 5270.00 | 802.11n(HT40) | Type4 | 01 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 02 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 03 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 04 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 05 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 06 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 07 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 08 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 09 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 10 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 11 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 12 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 13 | NO |
| 5270.00 | 802.11n(HT40) | Type4 | 14 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 15 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 16 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 17 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 18 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 19 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 20 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 21 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 22 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 23 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 24 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 25 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 26 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 27 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 28 | YES |
| 5270.00 | 802.11n(HT40) | Type4 | 29 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 00 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 01 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 02 | NO |
| 5270.00 | 802.11n(HT40) | Type5 | 03 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 04 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 05 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 06 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 07 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 08 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 09 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 10 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 11 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 12 | NO |
| 5270.00 | 802.11n(HT40) | Type5 | 13 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 14 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 15 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 16 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 17 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 18 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 19 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 20 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 21 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 22 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 23 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 24 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 25 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 26 | NO |
| 5270.00 | 802.11n(HT40) | Type5 | 27 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 28 | YES |
| 5270.00 | 802.11n(HT40) | Type5 | 29 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 00 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 01 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 02 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 03 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 04 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 05 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 06 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 07 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 08 | NO |
| 5270.00 | 802.11n(HT40) | Type6 | 09 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 10 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 11 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 12 | NO |
| 5270.00 | 802.11n(HT40) | Type6 | 13 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 14 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 15 | YES |



| | | | | |
|---------|-----------------|-------|----|-----|
| 5270.00 | 802.11n(HT40) | Type6 | 16 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 17 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 18 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 19 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 20 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 21 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 22 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 23 | NO |
| 5270.00 | 802.11n(HT40) | Type6 | 24 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 25 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 26 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 27 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 28 | YES |
| 5270.00 | 802.11n(HT40) | Type6 | 29 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 00 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 01 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 02 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 03 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 04 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 05 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 06 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 07 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 08 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 09 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 10 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 11 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 12 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 13 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 14 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 15 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 16 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 17 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 18 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 19 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 20 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 21 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 22 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 23 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 24 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 25 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 26 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 27 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 28 | YES |
| 5290.00 | 802.11ac(VHT80) | Type1 | 29 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 00 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 01 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 02 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 03 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 04 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 05 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 06 | NO |
| 5290.00 | 802.11ac(VHT80) | Type2 | 07 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 08 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 09 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 10 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 11 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 12 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 13 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 14 | NO |
| 5290.00 | 802.11ac(VHT80) | Type2 | 15 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 16 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 17 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 18 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 19 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 20 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 21 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 22 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 23 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 24 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 25 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 26 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 27 | NO |
| 5290.00 | 802.11ac(VHT80) | Type2 | 28 | YES |
| 5290.00 | 802.11ac(VHT80) | Type2 | 29 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 00 | YES |

| | | | | |
|---------|-----------------|-------|----|-----|
| 5290.00 | 802.11ac(VHT80) | Type3 | 01 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 02 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 03 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 04 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 05 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 06 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 07 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 08 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 09 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 10 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 11 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 12 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 13 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 14 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 15 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 16 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 17 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 18 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 19 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 20 | NO |
| 5290.00 | 802.11ac(VHT80) | Type3 | 21 | NO |
| 5290.00 | 802.11ac(VHT80) | Type3 | 22 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 23 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 24 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 25 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 26 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 27 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 28 | YES |
| 5290.00 | 802.11ac(VHT80) | Type3 | 29 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 00 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 01 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 02 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 03 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 04 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 05 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 06 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 07 | NO |
| 5290.00 | 802.11ac(VHT80) | Type4 | 08 | NO |
| 5290.00 | 802.11ac(VHT80) | Type4 | 09 | NO |
| 5290.00 | 802.11ac(VHT80) | Type4 | 10 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 11 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 12 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 13 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 14 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 15 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 16 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 17 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 18 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 19 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 20 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 21 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 22 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 23 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 24 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 25 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 26 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 27 | NO |
| 5290.00 | 802.11ac(VHT80) | Type4 | 28 | YES |
| 5290.00 | 802.11ac(VHT80) | Type4 | 29 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 00 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 01 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 02 | NO |
| 5290.00 | 802.11ac(VHT80) | Type5 | 03 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 04 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 05 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 06 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 07 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 08 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 09 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 10 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 11 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 12 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 13 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 14 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 15 | YES |

| | | | | |
|---------|-----------------|-------|----|-----|
| 5290.00 | 802.11ac(VHT80) | Type5 | 16 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 17 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 18 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 19 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 20 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 21 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 22 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 23 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 24 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 25 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 26 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 27 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 28 | YES |
| 5290.00 | 802.11ac(VHT80) | Type5 | 29 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 00 | NO |
| 5290.00 | 802.11ac(VHT80) | Type6 | 01 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 02 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 03 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 04 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 05 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 06 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 07 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 08 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 09 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 10 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 11 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 12 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 13 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 14 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 15 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 16 | NO |
| 5290.00 | 802.11ac(VHT80) | Type6 | 17 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 18 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 19 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 20 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 21 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 22 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 23 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 24 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 25 | NO |
| 5290.00 | 802.11ac(VHT80) | Type6 | 26 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 27 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 28 | YES |
| 5290.00 | 802.11ac(VHT80) | Type6 | 29 | YES |

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