

RF Test Report

For

Applicant Name: FOXX Development Inc.

Address: 3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

EUT Name: Smart Phone Brand Name: FOXXD

Model Number: A65M

Issued By

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen,

China

Report Number: BTF240218R00104 Test Standards: 47 CFR Part 15E

Test Conclusion: Pass

FCC ID: 2AQRM-A65M

Test Date: 2024-02-19 to 2024-03-08

Date of Issue: 2024-03-11

Prepared By:

Address:

Chris Liu / Project Engineer

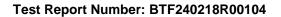
Date: 2024-03-11

Approved By:

Ryan.CJ / EMC Manager

Date: 2024-03-11

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.



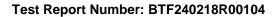


| Revision History | | | |
|------------------|----------------------------------|-------------------------------------|--|
| Version | Issue Date | Revisions Content | |
| R_V0 | 2024-03-11 | Original | |
| | | | |
| Note: Once the | revision has been made, then pre | vious versions reports are invalid. | |



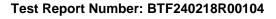
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1 Introduction

1.1 Identification of Testing Laboratory

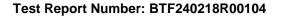
| Company Name: | BTF Testing Lab (Shenzhen) Co., Ltd. |
|---------------|---|
| Address: | F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China |
| Phone Number: | +86-0755-23146130 |
| Fax Number: | +86-0755-23146130 |

1.2 Identification of the Responsible Testing Location

| Company Name: BTF Testing Lab (Shenzhen) Co., Ltd. | | |
|--|---|--|
| Address: | F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China | |
| Phone Number: | +86-0755-23146130 | |
| Fax Number: | +86-0755-23146130 | |
| FCC Registration Number: | 518915 | |
| Designation Number: | CN1330 | |

1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.





2 Product Information

2.1 Application Information

| Company Name: | FOXX Development Inc. |
|---------------|--|
| Address: | 3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA |

2.2 Manufacturer Information

| Company Name: | FOXX Development Inc. |
|---------------|--|
| Address: | 3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA |

2.3 Factory Information

| Company Name: | FOXX Development Inc. |
|---------------|--|
| Address: | 3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA |

2.4 General Description of Equipment under Test (EUT)

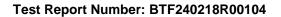
| EUT Name: | Smart Phone |
|--------------------|-------------|
| Test Model Number: | A65M |

2.5 Technical Information

| Power Supply: | DC 5V 1A from adapotr or 3.8V from battery |
|-----------------------------|--|
| Power Adaptor: | Input:AC 100-240V 50/60Hz 0.3A Output:5.0V==1000mA |
| Operation Frequency: | 802.11a/n(HT20)/ac(HT20)/ax(HE20): U-NII Band 1: 5180MHz to 5240MHz; U-NII Band 3: 5745MHz to 5825MHz; 802.11n(HT40)/ac(HT40)/ax(HE40): U-NII Band 1: 5190MHz to 5230MHz; U-NII Band 3: 5755MHz to 5795MHz; |
| | 802.11ac(HT80)/ax(HE80): U-NII Band 1: 5210MHz; U-NII Band 3: 5775MHz |
| Number of Channels: | 802.11a/n(HT20)/ac(HT20)/ax(HE20): U-NII Band 1: 4; U-NII Band 3: 5; 802.11n(HT40)/ac(HT40)/ax(HE40): U-NII Band 1: 2; U-NII Band 3: 2; 802.11ac(HT80)/ax(HE80): U-NII Band 1: 1; U-NII Band 3: 1 |
| Modulation Type: | 802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM); |
| Antenna Type: | PIFA |
| Antenna Gain [#] : | 1.59dBi |

Note:

^{#:} The antenna gain provided by the applicant, and the laboratory will not be responsible for the accumulated calculation results which covers the information provided by the applicant.





3 Summary of Test Results

3.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15E: Unlicensed National Information Infrastructure Devices

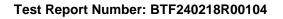
3.2 Uncertainty of Test

| Item | Measurement Uncertainty |
|--|-------------------------------------|
| Conducted Emission (150 kHz-30 MHz) | ±2.64dB |
| Transmitter Power, Conducted | ±0.87dB |
| Power Spectral Density | ±0.69dB |
| Occupied Bandwidth | ±69kHz |
| Radiated Spurious Emissions (above 1GHz) | 1-6GHz: ±3.94dB 6-18GHz: ±4.16dB |
| Radiated Spurious Emissions (30M - 1GHz) | ±4.12dB |

The following measurement uncertainty levels have been estimated for tests performed on the EUT 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.

3.3 Summary of Test Result

| Item | Standard | Requirement | Result |
|---|-----------------|--|--------|
| Conducted Emission at AC power line | 47 CFR Part 15E | 47 CFR Part 15.207(a) | Pass |
| Duty Cycle | 47 CFR Part 15E | | Pass |
| Maximum conducted output power | 47 CFR Part 15E | 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i) | Pass |
| Power spectral density | 47 CFR Part 15E | 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i) | Pass |
| Emission bandwidth and occupied bandwidth | 47 CFR Part 15E | U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use. 47 CFR Part 15.407(e) | Pass |
| Band edge emissions (Radiated) | 47 CFR Part 15E | 47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10) | Pass |
| Undesirable emission limits (below 1GHz) | 47 CFR Part 15E | 47 CFR Part 15.407(b)(9) | Pass |
| Undesirable emission limits (above 1GHz) | 47 CFR Part 15E | 47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10) | Pass |



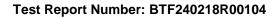


Test Configuration

Test Equipment List

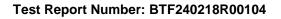
| Conducted Emission at AC power line | | | | | | | |
|-------------------------------------|-------------------|-------------|--------------|------------|--------------|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | |
| Pulse Limiter | SCHWARZBECK | VTSD 9561-F | 00953 | 1 | 1 | | |
| Coaxial Switcher | SCHWARZBECK | CX210 | CX210 | 1 | / | | |
| V-LISN | SCHWARZBECK | NSLK 8127 | 01073 | 2023-11-16 | 2024-11-15 | | |
| LISN | AFJ | LS16/110VAC | 16010020076 | 2023-11-26 | 2024-11-15 | | |
| EMI Receiver | ROHDE&SCHWA RZ | ESCI3 | 101422 | 2023-11-15 | 2024-11-14 | | |

| Duty Cycle Maximum conducted output power Power spectral density Emission bandwidth and occupied bandwidth | | | | | | |
|--|---|-----------|--------------|------------|--------------|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | |
| RFTest software | 1 | V1.00 | 1 | 1 | 1 | |
| RF Control Unit | Techy | TR1029-1 | 1 | 1 | 1 | |
| RF Sensor Unit | Techy | TR1029-2 | 1 | 1 | 1 | |
| Programmable constant temperature and humidity box | ZZCKONG | ZZ-K02A | 20210928007 | 2023-11-16 | 2024-11-15 | |
| Adjustable Direct Current Regulated Power Supply | Dongguan Tongmen Electronic Technology Co., LTD | etm-6050c | 20211026123 | 1 | 1 | |
| WIDEBAND RADIO COMMNUNICATION TESTER | Rohde & Schwarz | CMW500 | 161997 | 2023-11-16 | 2024-11-15 | |
| MXA Signal Analyzer | KEYSIGHT | N9020A | MY50410020 | 2023-11-16 | 2024-11-15 | |





| Band edge emissions Undesirable emission | limits (below 1GH | | | | |
|---|-------------------|---------------------|--------------|------------|--------------|
| Undesirable emission Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Coaxial cable Multiflex 141 | Schwarzbeck | N/SMA 0.5m | 517386 | 2023-03-24 | 2024-03-23 |
| Preamplifier | SCHWARZBECK | BBV9744 | 00246 | 1 | 1 |
| RE Cable | REBES Talent | UF1-SMASMAM-1 0m | 21101566 | 1 | / |
| RE Cable | REBES Talent | UF2-NMNM-10m | 21101570 | 1 | 1 |
| RE Cable | REBES Talent | UF1-SMASMAM-1 m | 21101568 | 1 | 1 |
| RE Cable | REBES Talent | UF2-NMNM-1m | 21101576 | 1 | / |
| RE Cable | REBES Talent | UF2-NMNM-2.5m | 21101573 | 1 | / |
| POSITIONAL CONTROLLER | SKET | PCI-GPIB | 1 | 1 | 1 |
| Horn Antenna | SCHWARZBECK | BBHA9170 | 01157 | 2023-11-13 | 2024-11-12 |
| EMI TEST RECEIVER | ROHDE&SCHWA RZ | ESCI7 | 101032 | 2023-11-16 | 2024-11-15 |
| SIGNAL ANALYZER | ROHDE&SCHWA RZ | FSQ40 | 100010 | 2023-11-16 | 2024-11-15 |
| POSITIONAL CONTROLLER | SKET | PCI-GPIB | 1 | 1 | 1 |
| Broadband Preamplilifier | SCHWARZBECK | BBV9718D | 80000 | / | 1 |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 2597 | 2022-05-22 | 2024-05-21 |
| EZ_EMC | Frad | FA-03A2 RE+ | 1 | 1 | / |
| POSITIONAL CONTROLLER | SKET | PCI-GPIB | 1 | 1 | 1 |
| Log periodic antenna | SCHWARZBECK | VULB 9168 | 01328 | 2023-11-13 | 2024-11-12 |



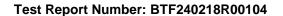


4.2 Test Auxiliary Equipment

The EUT was tested as an independent device.

4.3 Test Modes

| No. | Test Modes | Description |
|-----|---------------|---|
| TM1 | 802.11a mode | Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report. |
| TM2 | 802.11n mode | Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. |
| TM3 | 802.11ac mode | Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. |





5 Radio Spectrum Matter Test Results (RF)

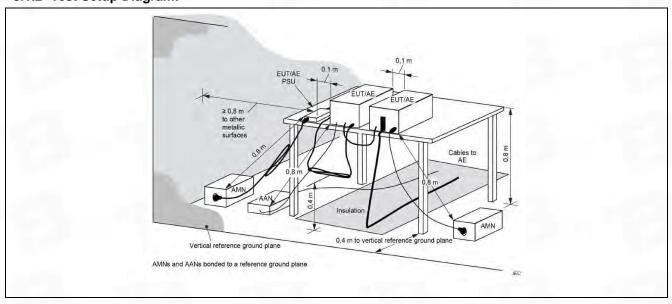
5.1 Conducted Emission at AC power line

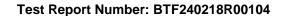
| Test Requirement: | 47 CFR Part 15.207(a) | 47 CFR Part 15.207(a) | | | | | |
|-------------------|---|------------------------------|------------------------|--|--|--|--|
| Test Method: | ANSI C63.10-2013 section 6.2 | ANSI C63.10-2013 section 6.2 | | | | | |
| | Frequency of emission (MHz) | Conducted limit (dE | Conducted limit (dBµV) | | | | |
| Test Limit: | | Quasi-peak | Average | | | | |
| | 0.15-0.5 | 66 to 56* | 56 to 46* | | | | |
| | 0.5-5 | 56 | 46 | | | | |
| | 5-30 | 60 | 50 | | | | |
| | *Decreases with the logarithm of the frequency. | | | | | | |

5.1.1 E.U.T. Operation:

| Operating Environment: | |
|------------------------|-----------|
| Temperature: | 25.3 °C |
| Humidity: | 47 % |
| Atmospheric Pressure: | 1010 mbar |

5.1.2 Test Setup Diagram:

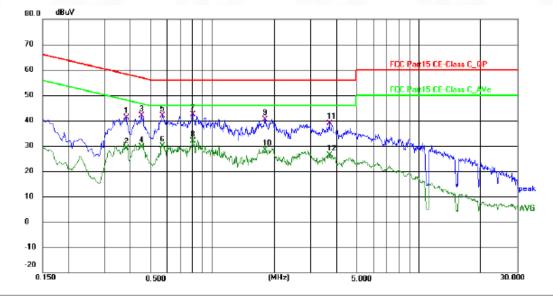




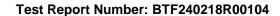


5.1.3 Test Data:

TM1 / Line: Line / Band: 5150-5250 MHz / BW: 20 / CH: L

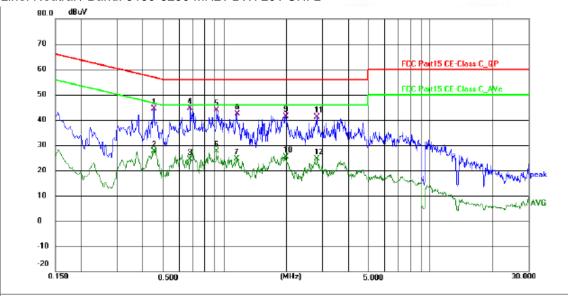


| No. | Frequency (MHz) | Reading (dBuV) | Factor () | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|--------------------|-------------------|--------------|-----------------|-----------------|----------------|----------|-----|--------|
| 1 | 0.3795 | 30.62 | 10.57 | 41.19 | 58.29 | -17.10 | QP | Р | |
| 2 | 0.3795 | 18.47 | 10.57 | 29.04 | 48.29 | -19.25 | AVG | Р | |
| 3 | 0.4515 | 31.73 | 10.12 | 41.85 | 56.85 | -15.00 | QP | Р | |
| 4 | 0.4515 | 19.57 | 10.12 | 29.69 | 46.85 | -17.16 | AVG | Р | |
| 5 | 0.5730 | 31.90 | 10.05 | 41.95 | 56.00 | -14.05 | QP | Р | |
| 6 | 0.5730 | 19.85 | 10.05 | 29.90 | 46.00 | -16.10 | AVG | Р | |
| 7 * | 0.8024 | 32.41 | 9.89 | 42.30 | 56.00 | -13.70 | QP | Р | |
| 8 | 0.8024 | 21.90 | 9.89 | 31.79 | 46.00 | -14.21 | AVG | Р | |
| 9 | 1.7970 | 29.77 | 10.67 | 40.44 | 56.00 | -15.56 | QP | Р | |
| 10 | 1.7970 | 17.60 | 10.67 | 28.27 | 46.00 | -17.73 | AVG | Р | |
| 11 | 3.6870 | 28.30 | 10.65 | 38.95 | 56.00 | -17.05 | QP | Р | |
| 12 | 3.6870 | 15.66 | 10.65 | 26.31 | 46.00 | -19.69 | AVG | Р | |

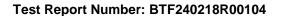








| N | lo. | Frequency (MHz) | Reading (dBuV) | Factor () | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|---|-----|--------------------|-------------------|--------------|-----------------|-----------------|----------------|----------|-----|--------|
| | 1 | 0.4515 | 34.37 | 10.12 | 44.49 | 56.85 | -12.36 | QP | Р | |
| | 2 | 0.4515 | 17.56 | 10.12 | 27.68 | 46.85 | -19.17 | AVG | Р | |
| | 3 | 0.6764 | 14.47 | 9.99 | 24.46 | 46.00 | -21.54 | AVG | Р | |
| 4 | 1 * | 0.6809 | 34.59 | 9.99 | 44.58 | 56.00 | -11.42 | QP | Р | |
| | 5 | 0.9102 | 33.32 | 10.67 | 43.99 | 56.00 | -12.01 | QP | Р | |
| | 6 | 0.9102 | 17.03 | 10.67 | 27.70 | 46.00 | -18.30 | AVG | Р | |
| | 7 | 1.1445 | 13.88 | 10.66 | 24.54 | 46.00 | -21.46 | AVG | Р | |
| | 8 | 1.1490 | 31.61 | 10.66 | 42.27 | 56.00 | -13.73 | QP | Р | |
| | 9 | 1.9815 | 30.82 | 10.68 | 41.50 | 56.00 | -14.50 | QP | Р | |
| 1 | 0 | 1.9815 | 14.71 | 10.68 | 25.39 | 46.00 | -20.61 | AVG | Р | |
| 1 | 1 | 2.8230 | 30.44 | 10.68 | 41.12 | 56.00 | -14.88 | QP | Р | |
| 1 | 2 | 2.8230 | 13.87 | 10.68 | 24.55 | 46.00 | -21.45 | AVG | Р | |





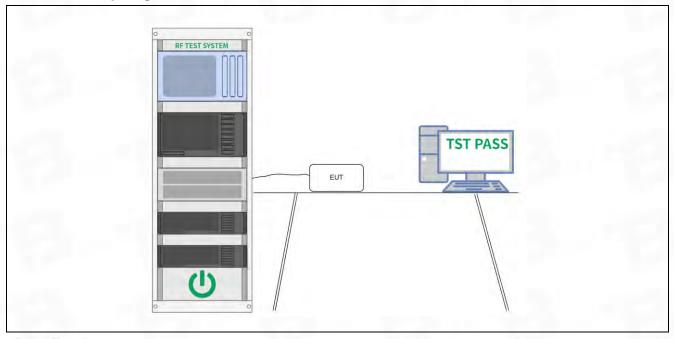
5.2 Duty Cycle

| Test Requirement: | All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, x, and maximum-power transmission duration, T, are required for each tested mode of operation. |
|-------------------|--|
| Test Method: | ANSI C63.10-2013 section 12.2 (b) |
| Test Limit: | No limits, only for report use. |
| Procedure: | i) Set the center frequency of the instrument to the center frequency of the transmission. ii) Set RBW >= EBW if possible; otherwise, set RBW to the largest available value. iii) Set VBW >= RBW. iv) Set detector = peak. v) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T, where T is defined in item a1) of 12.2, and the number of sweep points across duration T exceeds 100. |

5.2.1 E.U.T. Operation:

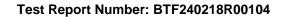
| Operating Environment: | | | |
|------------------------|-----------|--|--|
| Temperature: | 24.5 °C | | |
| Humidity: | 45.1 % | | |
| Atmospheric Pressure: | 1010 mbar | | |

5.2.2 Test Setup Diagram:



5.2.3 Test Data:

Please Refer to Appendix for Details.





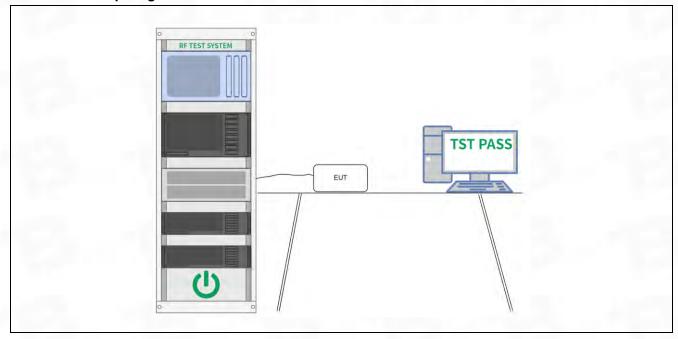
5.3 Maximum conducted output power

| Test Requirement: | 47 CFR Part 15.407(a)(1)(iv) | | | | | |
|-------------------|--|--|--|--|--|--|
| Toot requirement. | 47 CFR Part 15.407(a)(3)(i) | | | | | |
| Test Method: | ANSI C63.10-2013, section 12.3 | | | | | |
| Test Limit: | For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. | | | | | |
| Procedure: | Refer to ANSI C63.10-2013 section 12.3 | | | | | |

5.3.1 E.U.T. Operation:

| Operating Environment: | |
|------------------------|-----------|
| Temperature: | 24.5 °C |
| Humidity: | 45.1 % |
| Atmospheric Pressure: | 1010 mbar |

5.3.2 Test Setup Diagram:

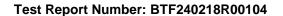




Test Report Number: BTF240218R00104

5.3.3 Test Data:

Please Refer to Appendix for Details.





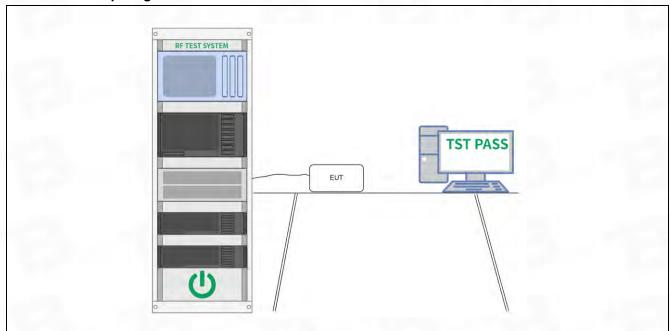
5.4 Power spectral density

| Test Requirement: | 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i) |
|-------------------|---|
| Test Method: | ANSI C63.10-2013, section 12.5 |
| | For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For the band 5.725-5.850 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. |
| Test Limit: | If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. |
| | Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. |
| Procedure: | Refer to ANSI C63.10-2013, section 12.5 |

5.4.1 E.U.T. Operation:

| Operating Environment: | |
|------------------------|-----------|
| Temperature: | 24.5 °C |
| Humidity: | 45.1 % |
| Atmospheric Pressure: | 1010 mbar |

5.4.2 Test Setup Diagram:

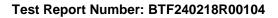




Test Report Number: BTF240218R00104

5.4.3 Test Data:

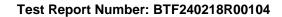
Please Refer to Appendix for Details.





Emission bandwidth and occupied bandwidth

| | U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use. |
|-------------------|--|
| Test Requirement: | |
| | U-NII 3, U-NII 4: 47 CFR Part 15.407(e) |
| Test Method: | ANSI C63.10-2013, section 6.9 & 12.4 |
| | KDB 789033 D02, Clause C.2 U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use. |
| | U-NII 1, U-NII 2A, U-NII 2C. NO IIIIIIIS, OIIIy for report use. |
| Test Limit: | U-NII 3, U-NII 4: Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz. |
| | Emission bandwidth: |
| | a) Set RBW = approximately 1% of the emission bandwidth. |
| | b) Set the VBW > RBW. |
| | c) Detector = peak. |
| | d) Trace mode = max hold. e) Measure the maximum width of the emission that is 26 dB down from the peak |
| | of the emission. |
| | Compare this with the RBW setting of the instrument. Readjust RBW and repeat |
| | measurement |
| | as needed until the RBW/EBW ratio is approximately 1%. |
| | Occupied bandwidth: |
| | a) The instrument center frequency is set to the nominal EUT channel center frequency. The |
| | frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW. |
| | b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, |
| | and VBW shall be approximately three times the RBW, unless otherwise specified by the |
| | applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from |
| Procedure: | exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral |
| | envelope |
| | shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2. |
| | d) Step a) through step c) might require iteration to adjust within the specified |
| | range. |
| | e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode |
| | shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be |
| | used. |
| | f) Use the 99% power bandwidth function of the instrument (if available) and report the measured |
| | bandwidth. g) If the instrument does not have a 99% power bandwidth function, then the trace |
| | data points are recovered and directly summed in linear power terms. The recovered amplitude |
| | data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the |
| | total is reached; |
| | that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the |





total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is

the difference between these two frequencies.

h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument

display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may

be reported in addition to the plot(s).

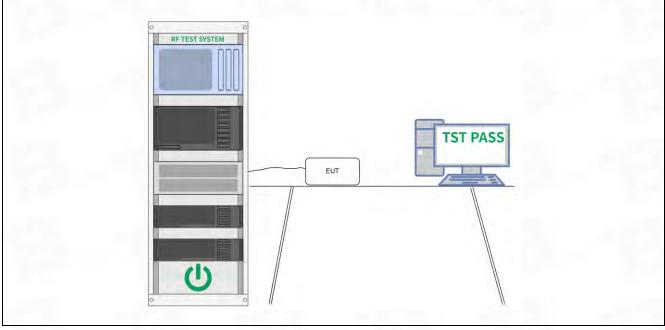
6 dB emission bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) ≥ 3 >= RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.5.1 E.U.T. Operation:

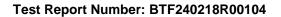
| Operating Environment: | |
|------------------------|-----------|
| Temperature: | 24.5 °C |
| Humidity: | 45.1 % |
| Atmospheric Pressure: | 1010 mbar |

5.5.2 Test Setup Diagram:



5.5.3 Test Data:

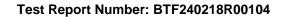
Please Refer to Appendix for Details.





5.6 Band edge emissions (Radiated)

| | 47 CFR Part 15.407(b) | (1) | | | | | | | | |
|-------------------|---|--|--------------------|----------------------|--|--|--|--|--|--|
| Test Requirement: | 47 CFR Part 15.407(b) | | | | | | | | | |
| | | | | | | | | | | |
| Test Method: | 47 CFR Part 15.407(b)(10) ANSI C63.10-2013, section 12.7.4, 12.7.6, 12.7.7 For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of t | | | | | | | | | |
| | | | | sions outside of the | | | | | | |
| | 5.15-5.35 GHz band sh | | | | | | | | | |
| | 0.10 0.00 GHZ band si | idii fiot exoced dir c.i.r. | p. 01 27 db11/10 | II IZ. | | | | | | |
| | For transmitters operat | ing solely in the 5.725- | 5.850 GHz band | : | | | | | | |
| | All emissions shall be I | | | | | | | | | |
| | or below the band edge | | | | | | | | | |
| | below the band edge, a | | | | | | | | | |
| | linearly to a level of 15. | | | | | | | | | |
| | from 5 MHz above or b | | | | | | | | | |
| | dBm/MHz at the band | edge. | | | | | | | | |
| | MHz | MHz | MHz | GHz | | | | | | |
| | 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 | | | | | | |
| | ¹ 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 | | | | | | |
| | 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 | | | | | | |
| | 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 | | | | | | |
| | 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 | | | | | | |
| | 4.20725-4.20775 | 73-74.6 | 1645.5-1646. | 9.3-9.5 | | | | | | |
| | | | 5 | | | | | | | |
| | 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 | | | | | | |
| | 6.26775-6.26825 | 108-121.94 | 1718.8-1722. | 13.25-13.4 | | | | | | |
| | | | 2 | | | | | | | |
| | 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 | | | | | | |
| | 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 | | | | | | |
| | 8.362-8.366 | 156.52475-156.525 | 2483.5-2500 | 17.7-21.4 | | | | | | |
| Гest Limit: | | 25 | | | | | | | | |
| CSt LIIIIIt. | 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 | | | | | | |
| | 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 | | | | | | |
| | 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 | | | | | | |
| | 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 | | | | | | |
| | 12.57675-12.57725 | 322-335.4 | 3600-4400 | (²) | | | | | | |
| | 13.36-13.41 | | | | | | | | | |
| | | | | | | | | | | |
| | ¹ Until February 1, 1999 |), this restricted band sl | hall be 0.490-0.5 | 510 MHz. | | | | | | |
| | | | | | | | | | | |
| | ² Above 38.6 | | | | | | | | | |
| | | | | | | | | | | |
| | The field strength of en | | | | | | | | | |
| | exceed the limits show | | | | | | | | | |
| | MHz, compliance with | | | | | | | | | |
| | measurement instrume | | | | | | | | | |
| | 1000 MHz, compliance | | • | | | | | | | |
| | | ased on the average value of the measured emissions. The provisions in § | | | | | | | | |
| | 15.35apply to these measurements. | | | | | | | | | |
| | | | | | | | | | | |
| | Except as provided els | | | | | | | | | |
| | radiator shall not excee | | eis specified in t | | | | | | | |
| | Frequency (MHz) | Field strength | , | Measurement | | | | | | |
| | | (microvolts/mete | er) | distance | | | | | | |
| | 0.009-0.490 | 2400/F(kHz) | | (meters) 300 | | | | | | |
| | | | | | | | | | | |





| 0.490-1.705 | 24000/F(kHz) | 30 |
|-------------|--------------|----|
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 ** | 3 |
| 88-216 | 150 ** | 3 |
| 216-960 | 200 ** | 3 |
| Above 960 | 500 | 3 |

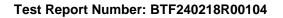
^{**} Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

Above 1GHz:

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

Procedure:

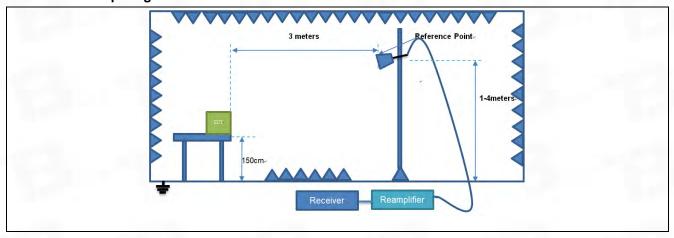


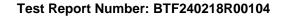


5.6.1 E.U.T. Operation:

| Operating Environment: | | | | | |
|------------------------|-----------|--|--|--|--|
| Temperature: | 23.8 °C | | | | |
| Humidity: | 48.5 % | | | | |
| Atmospheric Pressure: | 1010 mbar | | | | |

5.6.2 Test Setup Diagram:







5.6.3 Test Data:

TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|-----|
| 1 | 5084.675 | 45.58 | 5.28 | 50.86 | 68.20 | -17.34 | peak | Р |
| 2 | 5150.000 | 46.52 | 5.33 | 51.85 | 68.20 | -16.35 | peak | Р |

TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L

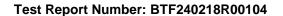
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|-----|
| 1 | 5059.675 | 44.33 | 5.35 | 49.68 | 68.20 | -18.52 | peak | Р |
| 2 | 5150.000 | 47.00 | 5.33 | 52.33 | 68.20 | -15.87 | peak | Р |

TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H

| No | Frequency | Reading | Factor | Level | Limit | Margin | Detector | P/F |
|-----|-----------|---------|--------|----------|----------|--------|----------|-----|
| No. | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | Detector | F/F |
| 1 | 5350.000 | 45.41 | 5.45 | 50.86 | 68.20 | -17.34 | peak | Р |
| 2 | 5460.000 | 46.77 | 5.52 | 52.29 | 68.20 | -15.91 | peak | Р |

TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H

| No. | Frequency | Reading | Factor | Level | Limit | Margin | Detector | P/F |
|------|-----------|---------|--------|----------|----------|--------|----------|-----|
| INO. | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | Detector | F/F |
| 1 | 5350.000 | 45.86 | 5.45 | 51.31 | 68.20 | -16.89 | peak | Р |
| 2 | 5460.000 | 47.89 | 5.52 | 53.41 | 68.20 | -14.79 | peak | Р |





TM1 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|-----|
| 1 | 5650.000 | 45.50 | 5.63 | 51.13 | 68.20 | -17.07 | peak | Р |
| 2 | 5700.000 | 45.96 | 5.70 | 51.66 | 105.20 | -53.54 | peak | Р |
| 2 | 5720.000 | 46.70 | 5.66 | 52.36 | 110.80 | -58.44 | peak | Р |

TM1 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: L

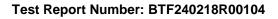
| No. | Frequency | Reading | Factor | Level | Limit | Margin | Detector | D/E |
|------|-----------|---------|--------|----------|----------|--------|----------|----------|
| INO. | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | Detector | P/F P |
| 1 | 5350.000 | 44.76 | 5.63 | 50.39 | 68.20 | -17.81 | peak | Р |
| 2 | 5460.000 | 46.02 | 5.70 | 51.72 | 105.20 | -53.48 | peak | Р |
| 2 | 5460.000 | 46.62 | 5.66 | 52.28 | 110.80 | -58.52 | peak | Р |

TM1 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: H

| No | Frequency | Reading | Factor | Level | Limit | Margin | Detector | P/F |
|-----|-----------|---------|--------|----------|----------|--------|----------|-----|
| No. | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | Detector | F/F |
| 1 | 5855.000 | 46.97 | 5.73 | 52.70 | 110.80 | -58.10 | peak | Р |
| 2 | 5875.000 | 46.21 | 5.74 | 51.95 | 105.20 | -53.25 | peak | Р |
| 2 | 5925.000 | 45.66 | 5.66 | 51.32 | 68.20 | -16.88 | peak | Р |

TM1 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: H

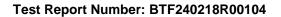
| | No. | Frequency | Reading | Factor | Level | Limit | Margin | Detector | P/F |
|------|-------|-----------|---------|----------|----------|--------|----------|----------|-----|
| INO. | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | Detector | P/F P | |
| | 1 | 5725.000 | 47.25 | 5.73 | 52.98 | 110.80 | -57.82 | peak | Р |
| | 2 | 5730.000 | 47.10 | 5.74 | 52.84 | 105.20 | -52.36 | peak | Р |
| | 2 | 5730.000 | 46.17 | 5.66 | 51.83 | 68.20 | -16.37 | peak | Р |





5.7 Undesirable emission limits (below 1GHz)

| | nission limits (below | | | | | |
|-------------------|---|--|---|--|--|--|
| Test Requirement: | 47 CFR Part 15.407(b)(9 | , | | | | |
| Test Method: | ANSI C63.10-2013, secti | | | | | |
| | limits set forth in § 15.209 Except as provided elsev | where in this subpart, the emiss | ions from an intentional | | | |
| | | the field strength levels specific | | | | |
| | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) | | | |
| | 0.009-0.490 | 2400/F(kHz) | 300 | | | |
| | 0.490-1.705 | 24000/F(kHz) | 30 | | | |
| | 1.705-30.0 | 30 | 30 | | | |
| | 30-88 | 100 ** | 3 | | | |
| Test Limit: | 88-216 | 150 ** | 3 | | | |
| | 216-960 | 200 ** | 3 | | | |
| | Above 960 | 500 paragraph (g), fundamental em | 3 | | | |
| | radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands | | | | | |
| Procedure: | Below 1GHz: a. For below 1GHz, the E above the ground at a 3 if degrees to determine the b. The EUT was set 3 or which was mounted on th c. The antenna height is determine the maximum polarizations of the anten d. For each suspected er the antenna was tuned to of below 30MHz, the ante was turned from 0 degree e. The test-receiver syste Bandwidth with Maximun f. If the emission level of specified, then testing co reported. Otherwise the e re-tested one by one usin data sheet. g. Test the EUT in the low h. The radiation measure Transmitting mode, and f i. Repeat above procedur Remark: 1. Level= Read Level+ C | ents employing an average determine the semi-anechoic chamber. It position of the highest radiation to meters away from the interference top of a variable-height antervaried from one meter to four movalue of the field strength. Both an are set to make the measuremission, the EUT was arranged to heights from 1 meter to 4 meterna was tuned to heights 1 meterna was tuned to heights 1 meterna was to Peak Detect Fundaments are performed in the peak was to peak mode was 100 and quasi-peak method as specific west channel, the middle channel are performed in X, Y, Z found the X axis positioning white suntil all frequencies measurements are performed in X, Y, Z found the X axis positioning white suntil all frequencies measurements. | rotating table 0.8 meters The table was rotated 360 m. erence-receiving antenna, nna tower. neters above the ground to a horizontal and vertical rement. It to its worst case and then ers (for the test frequency eter) and the rotatable table aximum reading. ction and Specified dB lower than the limit alues of the EUT would be dB margin would be fied and then reported in a mel, the Highest channel. It axis positioning for ich it is the worst case. The seamp Factor | | | |





points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

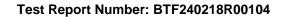
3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

Above 1GHz:

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

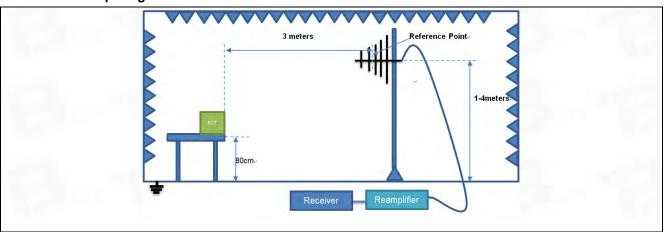
5.7.1 E.U.T. Operation:

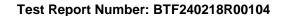
| Operating Environment: | | |
|------------------------|-----------|--|
| Temperature: | 23.8 °C | |
| Humidity: | 48.5 % | |
| Atmospheric Pressure: | 1010 mbar | |





5.7.2 Test Setup Diagram:

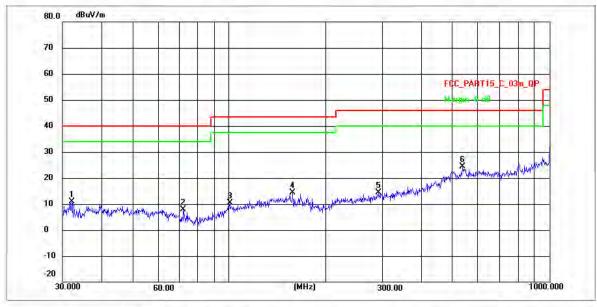






5.7.3 Test Data:

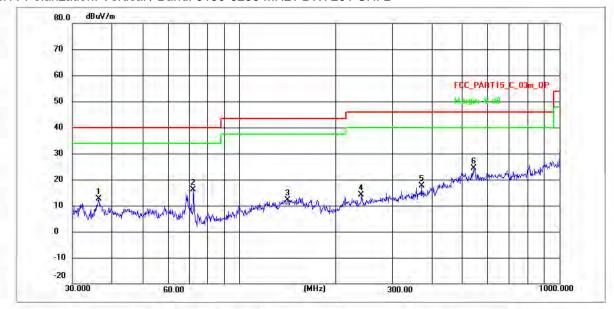




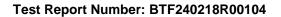
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|-----|
| 1 | 32.1794 | 29.44 | -18.50 | 10.94 | 40.00 | -29.06 | peak | Р |
| 2 | 71.8320 | 26.04 | -18.08 | 7.96 | 40.00 | -32.04 | peak | Р |
| 3 | 100.4044 | 38.68 | -28.23 | 10.45 | 43.50 | -33.05 | peak | P |
| 4 | 157.5588 | 42.05 | -27.71 | 14.34 | 43.50 | -29.16 | peak | P |
| 5 | 292.0583 | 39.97 | -25.50 | 14.47 | 46.00 | -31.53 | peak | Р |
| 6 * | 536.6473 | 45.83 | -21.52 | 24.31 | 46.00 | -21.69 | peak | Р |



TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L



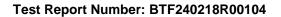
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|-----|
| 1 | 36.3176 | 33.16 | -20.61 | 12.55 | 40.00 | -27.45 | peak | Р |
| 2 | 71.8320 | 36.19 | -19.96 | 16.23 | 40.00 | -23.77 | peak | Р |
| 3 | 141.8262 | 39.96 | -27.86 | 12.10 | 43.50 | -31.40 | peak | P |
| 4 | 240.4084 | 40.00 | -25.94 | 14.06 | 46.00 | -31.94 | peak | P |
| 5 | 369.4047 | 42.46 | -24.87 | 17.59 | 46.00 | -28.41 | peak | Р |
| 6 * | 541.3725 | 45.87 | -21.57 | 24.30 | 46.00 | -21,70 | peak | Р |





5.8 Undesirable emission limits (above 1GHz)

| O.O OHOCSHODIC C | 47 CED Dort 15 407/b) | • | | | | | | |
|-------------------|--|----------------------------|--------------------|------------------|--|--|--|--|
| Toot Doguiroment | 47 CFR Part 15.407(b) | | | | | | | |
| Test Requirement: | 47 CFR Part 15.407(b) | | | | | | | |
| Took Mothody | 47 CFR Part 15.407(b) | | 7.7 | | | | | |
| Test Method: | ANSI C63.10-2013, se | | | | | | | |
| | For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the | | | | | | | |
| | 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz. | | | | | | | |
| | | | - 0-0 OII I | | | | | |
| | For transmitters operat | | | | | | | |
| | All emissions shall be I | | | | | | | |
| | or below the band edge | | | | | | | |
| | below the band edge, a | | | | | | | |
| | linearly to a level of 15. | | | | | | | |
| | from 5 MHz above or b | | creasing linearly | to a level of 27 | | | | |
| | dBm/MHz at the band edge. | | | | | | | |
| | MHz | MHz | MHz | GHz | | | | |
| | 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 | | | | |
| | 10.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 | | | | |
| | 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 | | | | |
| | 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 | | | | |
| | 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 | | | | |
| | 4.20725-4.20775 | 73-74.6 | 1645.5-1646. | 9.3-9.5 | | | | |
| | | | 5 | | | | | |
| | 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 | | | | |
| | 6.26775-6.26825 | 108-121.94 | 1718.8-1722. 2 | 13.25-13.4 | | | | |
| | 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 | | | | |
| | 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 | | | | |
| | 8.362-8.366 | 156.52475-156.525 | 2483.5-2500 | 17.7-21.4 | | | | |
| | 0.002 0.000 | 25 | 2400.0 2000 | 17.7 21.4 | | | | |
| Test Limit: | 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 | | | | |
| | 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 | | | | |
| | 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 | | | | |
| | 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 | | | | |
| | 12.57675-12.57725 | 322-335.4 | 3600-4400 | (²) | | | | |
| | 13.36-13.41 | 322-333.4 | 3000-4400 | | | | | |
| | 13.30-13.41 | | | | | | | |
| | 10.005 | N 41. 2 4. 2 . 4 1 1 | | :40 MIL | | | | |
| | ¹ Until February 1, 1999 | 9, this restricted band si | naii be 0.490-0.5 | OTU IVIHZ. | | | | |
| | ² Above 38.6 | | | | | | | |
| | Above 38.6 | | | | | | | |
| | The field stress of the feet | | | | | | | |
| | The field strength of en | | | | | | | |
| | exceed the limits show | | | | | | | |
| | MHz, compliance with | | | | | | | |
| | measurement instrume | | | | | | | |
| | 1000 MHz, compliance | | | | | | | |
| | based on the average | | emissions. The p | provisions in § | | | | |
| | 15.35apply to these me | easurements. | | | | | | |
| | Furant constitution | and an in the | Ala a sur la ci | | | | | |
| | Except as provided els | | | | | | | |
| | radiator shall not excee | | els specified in t | | | | | |
| | Frequency (MHz) | Field strength | | Measurement | | | | |
| | | (microvolts/mete | er) | distance | | | | |
| | | | | 1 | | | | |
| | | | | (meters) | | | | |





| 0.490-1.705 | 24000/F(kHz) | 30 |
|-------------|--------------|----|
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 ** | 3 |
| 88-216 | 150 ** | 3 |
| 216-960 | 200 ** | 3 |
| Above 960 | 500 | 3 |

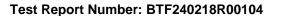
^{**} Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

Above 1GHz:

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

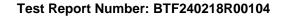
Procedure:





5.8.1 E.U.T. Operation:

| Operating Environment: | | |
|------------------------|-----------|--|
| Temperature: | 23.8 °C | |
| Humidity: | 48.5 % | |
| Atmospheric Pressure: | 1010 mbar | |





5.8.2 Test Data:

TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L

| No | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F |
|----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|-----|
| 1 | 10360.000 | 76.19 | -24.45 | 51.74 | 74.00 | -22.26 | peak | Р |
| 2 | 15540.000 | 71.71 | -21.50 | 50.21 | 74.00 | -23.79 | peak | Р |

TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L

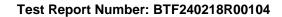
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|-----|
| 1 | 10360.000 | 73.64 | -21.50 | 52.14 | 74.00 | -21.86 | peak | Р |
| 2 | 15540.000 | 71.06 | -24.45 | 46.61 | 74.00 | -27.39 | peak | Р |

TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: M

| No. | Frequency | Reading | Factor | Level | Limit | Margin | Detector | P/F |
|------|-----------|---------|--------|----------|----------|--------|----------|------|
| IVO. | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | Detector | 1 // |
| 1 | 10400.000 | 77.15 | -24.47 | 52.68 | 74.00 | -21.32 | peak | Р |
| 2 | 15600.000 | 72.67 | -21.51 | 51.16 | 74.00 | -22.84 | peak | Р |

TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: M

| No. | Frequency | Reading | Factor | Level | Limit | Margin | Detector | P/F |
|------|-----------|---------|--------|----------|----------|--------|----------|-----|
| INO. | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | Detector | 171 |
| 1 | 10560.000 | 74.70 | -24.47 | 50.23 | 74.00 | -23.77 | peak | Р |
| 2 | 15840.000 | 72.12 | -21.51 | 50.61 | 74.00 | -23.39 | peak | Р |





TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|-----|
| 1 | 10460.000 | 77.30 | -24.51 | 52.79 | 74.00 | -21.21 | peak | Р |
| 2 | 15690.000 | 72.82 | -21.53 | 51.29 | 74.00 | -22.71 | peak | Р |

TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H

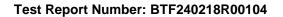
| No. | Frequency | Reading | Factor | Level | Limit | Margin | Detector | P/F |
|------|-----------|---------|--------|----------|----------|--------|----------|-----|
| INO. | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | Detector | F/F |
| 1 | 10460.000 | 74.79 | -24.51 | 50.28 | 74.00 | -23.72 | peak | Р |
| 2 | 15690.000 | 72.21 | -21.53 | 50.68 | 74.00 | -23.32 | peak | Р |

TM1 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L

| No. | Frequency | Reading | Factor | Level | Limit | Margin | Detector | P/F |
|------|-----------|---------|--------|----------|----------|--------|----------|------|
| INO. | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | Detector | 1 // |
| 1 | 11490.000 | 70.90 | -23.02 | 47.88 | 74.00 | -26.12 | peak | Р |
| 2 | 17235.000 | 66.70 | -17.31 | 49.39 | 74.00 | -24.61 | peak | Р |

TM1 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: L

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|-----|
| 1 | 11490.000 | 71.74 | -23.07 | 48.67 | 74.00 | -25.33 | peak | Р |
| 2 | 17235.000 | 68.20 | -17.36 | 50.84 | 74.00 | -23.16 | peak | Р |





TM1 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: M

| No. | Frequency | Reading | Factor | Level | Limit | Margin | Detector | P/F |
|------|-----------|---------|--------|----------|----------|--------|----------|-----|
| 140. | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 11570.000 | 71.86 | -22.95 | 48.91 | 74.00 | -25.09 | peak | Р |
| 2 | 17355.000 | 67.66 | -16.89 | 50.77 | 74.00 | -23.23 | peak | Р |

TM1 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: M

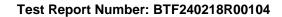
| | No. | Frequency | Reading | Factor | Level | Limit | Margin | Detector | P/F |
|--|-----|-----------|---------|--------|----------|----------|--------|----------|-----|
| | | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | Detector | -/- |
| | 1 | 11570.000 | 73.16 | -22.95 | 50.21 | 74.00 | -23.79 | peak | Р |
| | 2 | 17355.000 | 69.62 | -16.89 | 52.73 | 74.00 | -21.27 | peak | Р |
| | | | | | | | | | |

TM1 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: H

| $\overline{}$ | | | | | | | | |
|---------------|-----------|-------------------------|--------------------------------------|--|---|---|--|--|
| No. | Frequency | Reading | Factor | Level | Limit | Margin | Detector | P/F |
| 0. | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | Detector | 17/1 |
| 1 | 11650.000 | 72.14 | -22.80 | 49.34 | 74.00 | -24.66 | peak | Р |
| 2 | 17475.000 | 67.94 | -16.41 | 51.53 | 74.00 | -22.47 | peak | Р |
| | 0. I | o. (MHz) 1 11650.000 | 0. (MHz) (dBuV) 1 11650.000 72.14 | 0. (MHz) (dBuV) (dB/m) 1 11650.000 72.14 -22.80 | 0. (MHz) (dBuV) (dB/m) (dBuV/m) 1 11650.000 72.14 -22.80 49.34 | O. (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) I 11650.000 72.14 -22.80 49.34 74.00 | O. (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB I 11650.000 72.14 -22.80 49.34 74.00 -24.66 | 0. (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) Detector 1 11650.000 72.14 -22.80 49.34 74.00 -24.66 peak |

TM1 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: H

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|-----|
| 1 | 11650.000 | 73.33 | -22.80 | 50.53 | 74.00 | -23.47 | peak | Р |
| 2 | 17475.000 | 69.79 | -16.41 | 53.38 | 74.00 | -20.62 | peak | Р |





TM2 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 40 / CH: L

| No. | Frequency | Reading | Factor | Level | Limit | Margin | Detector | P/F |
|-----|-----------|---------|--------|----------|----------|--------|----------|-----|
| NO. | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | Detector | F/F |
| 1 | 10380.000 | 76.75 | -24.39 | 52.36 | 74.00 | -21.64 | peak | Р |
| 2 | 15570.000 | 72.27 | -21.44 | 50.83 | 74.00 | -23.17 | peak | Р |

TM2 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 40 / CH: L

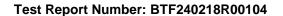
| | No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F |
|---|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|-----|
| Γ | 1 | 10380.000 | 74.20 | -21.50 | 52.70 | 74.00 | -21.30 | peak | Р |
| | 2 | 15570.000 | 71.62 | -24.45 | 47.17 | 74.00 | -26.83 | peak | Р |

TM2 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 40 / CH: H

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|-----|
| 1 | 10460.000 | 77.54 | -24.40 | 53.14 | 74.00 | -20.86 | peak | Р |
| 2 | 15690.000 | 73.06 | -21.42 | 51.64 | 74.00 | -22.36 | peak | Р |

TM2 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 40 / CH: H

| - 1 | | | | | | | | | |
|-----|------|-----------|---------|--------|----------|----------|--------|----------|-----|
| | No. | Frequency | Reading | Factor | Level | Limit | Margin | Detector | P/F |
| | IVO. | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | Detector | F/F |
| | 1 | 10460.000 | 75.03 | -24.40 | 50.63 | 74.00 | -23.37 | peak | Р |
| | 2 | 15690.000 | 72.45 | -21.42 | 51.03 | 74.00 | -22.97 | peak | Р |





TM2 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 40 / CH: L

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|-----|
| 1 | 11510.000 | 71.46 | -23.01 | 48.45 | 74.00 | -25.55 | peak | Р |
| 2 | 17265.000 | 67.26 | -17.30 | 49.96 | 74.00 | -24.04 | peak | Р |

TM2 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 40 / CH: L

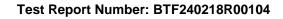
| N | | Frequency | Reading | Factor | Level | Limit | Margin | Datastas | D/F |
|---|----|-----------|---------|--------|----------|----------|--------|----------|-----|
| N | 0. | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | Detector | P/F |
| 1 | 1 | 11510.000 | 71.74 | -23.07 | 48.67 | 74.00 | -25.33 | peak | Р |
| 2 | 2 | 17265.000 | 68.20 | -17.36 | 50.84 | 74.00 | -23.16 | peak | Р |

TM2 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 40 / CH: H

| No. | Frequency | Reading | Factor | Level | Limit | Margin | Detector | P/F |
|-----|-----------|---------|--------|----------|----------|--------|----------|------|
| NO. | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | Detector | F/IF |
| 1 | 11590.000 | 72.45 | -22.69 | 49.76 | 74.00 | -24.24 | peak | Р |
| 2 | 17385.000 | 68.25 | -16.30 | 51.95 | 74.00 | -22.05 | peak | Р |

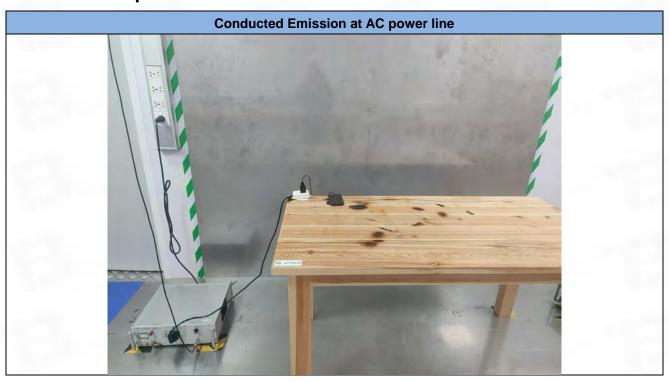
TM2 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 40 / CH: H

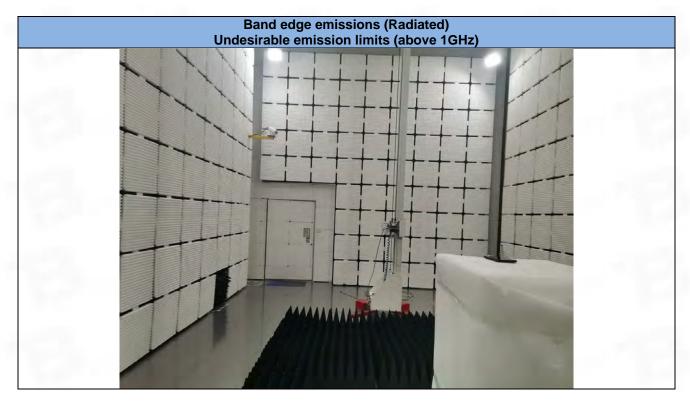
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|-----|
| 1 | 11590.000 | 73.64 | -22.69 | 50.95 | 74.00 | -23.05 | peak | Р |
| 2 | 17385.000 | 70.10 | -16.30 | 53.80 | 74.00 | -20.20 | peak | Р |

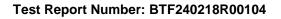




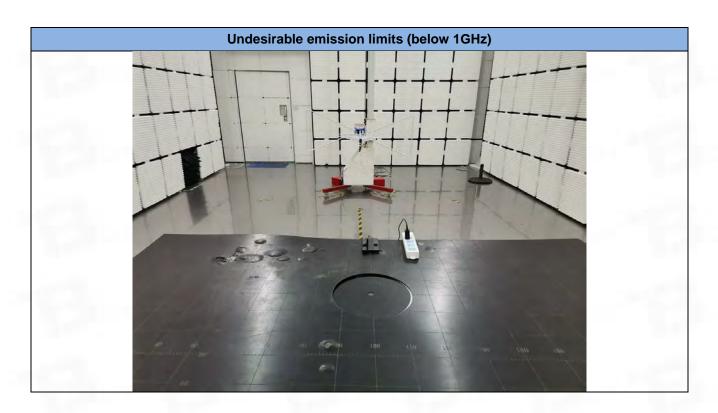
6 Test Setup Photos

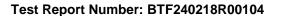














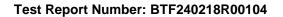
EUT Constructional Details (EUT Photos)

Please refer to the test report No. BTF240218R00101





Appendix



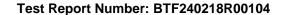


1. Duty Cycle

1.1 Ant1

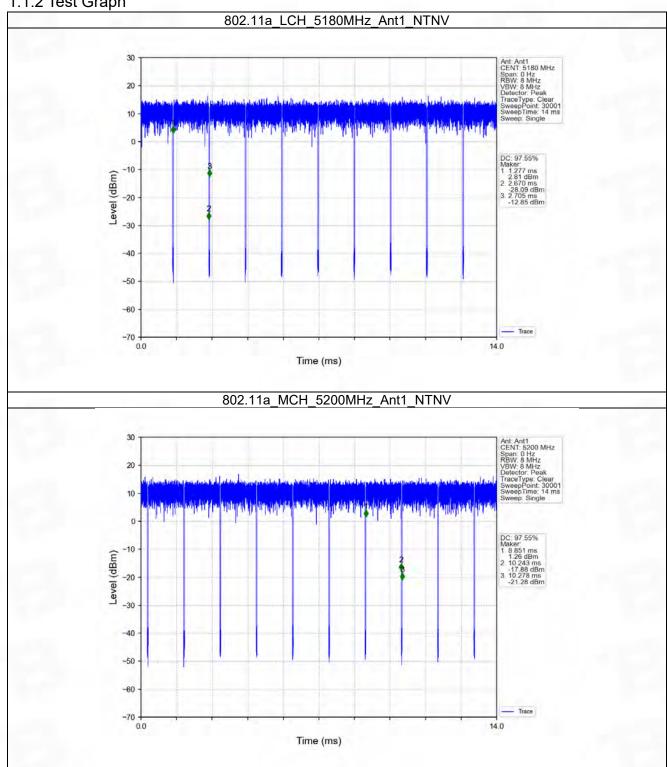
1.1.1 Test Result

| | | | | | Ant1 | | |
|----------|------|-----------|-------|--------|------------|------------------------|---------------|
| Mode | TX | Frequency | T_on | Period | Duty Cycle | Duty Cycle | Max. DC |
| Mode | Type | (MHz) | (ms) | (ms) | (%) | Correction Factor (dB) | Variation (%) |
| | | 5180 | 1.393 | 1.428 | 97.55 | 0.11 | 0.03 |
| | | 5200 | 1.392 | 1.427 | 97.55 | 0.11 | 0.07 |
| 802.11a | SISO | 5240 | 1.392 | 1.427 | 97.55 | 0.11 | 0.03 |
| 002.11a | 3130 | 5745 | 1.393 | 1.428 | 97.55 | 0.11 | 0.07 |
| | | 5785 | 1.392 | 1.428 | 97.48 | 0.11 | 0.06 |
| | | 5825 | 1.393 | 1.428 | 97.55 | 0.11 | 0.03 |
| | | 5180 | 1.301 | 1.336 | 97.38 | 0.12 | 0.07 |
| | | 5200 | 1.301 | 1.336 | 97.38 | 0.12 | 0.03 |
| 802.11n | SISO | 5240 | 1.300 | 1.335 | 97.38 | 0.12 | 0.03 |
| (HT20) | 3130 | 5745 | 1.301 | 1.336 | 97.38 | 0.12 | 0.03 |
| | | 5785 | 1.301 | 1.336 | 97.38 | 0.12 | 0.04 |
| | | 5825 | 1.301 | 1.336 | 97.38 | 0.12 | 0.03 |
| | | 5190 | 0.648 | 0.682 | 95.01 | 0.22 | 0.04 |
| 802.11n | SISO | 5230 | 0.648 | 0.683 | 94.88 | 0.23 | 0.07 |
| (HT40) | 3130 | 5755 | 0.649 | 0.683 | 95.02 | 0.22 | 0.03 |
| | | 5795 | 0.649 | 0.683 | 95.02 | 0.22 | 0.03 |
| | | 5180 | 1.301 | 1.336 | 97.38 | 0.12 | 0.07 |
| | | 5200 | 1.301 | 1.336 | 97.38 | 0.12 | 0.07 |
| 802.11ac | SISO | 5240 | 1.301 | 1.336 | 97.38 | 0.12 | 0.07 |
| (VHT20) | 3130 | 5745 | 1.301 | 1.336 | 97.38 | 0.12 | 0.03 |
| | | 5785 | 1.300 | 1.335 | 97.38 | 0.12 | 0.03 |
| | | 5825 | 1.301 | 1.335 | 97.45 | 0.11 | 0.03 |
| | | 5190 | 0.648 | 0.683 | 94.88 | 0.23 | 0.04 |
| 802.11ac | SISO | 5230 | 0.648 | 0.682 | 95.01 | 0.22 | 0.03 |
| (VHT40) | 3130 | 5755 | 0.648 | 0.683 | 94.88 | 0.23 | 0.07 |
| | | 5795 | 0.648 | 0.683 | 94.88 | 0.23 | 0.03 |

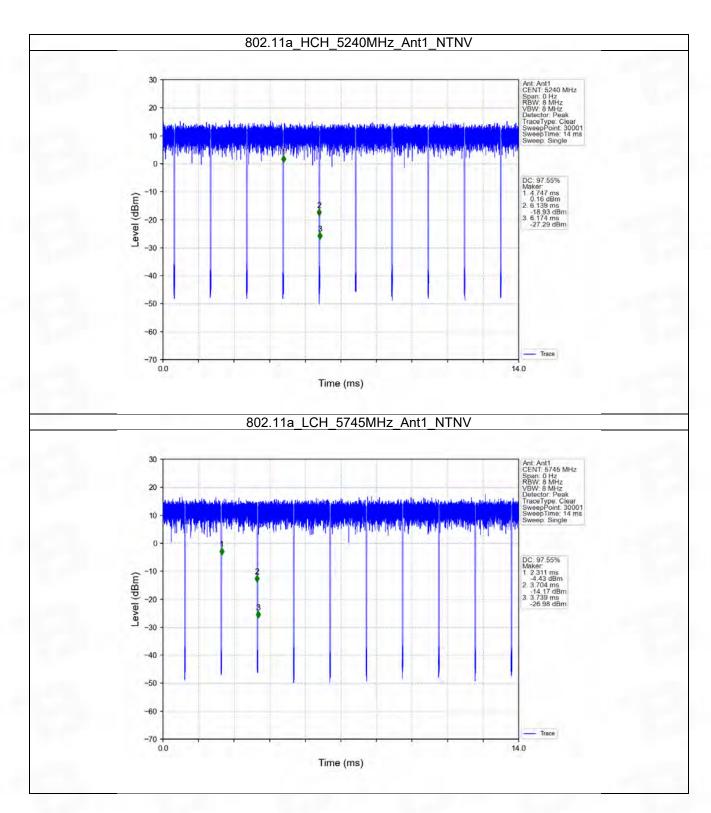




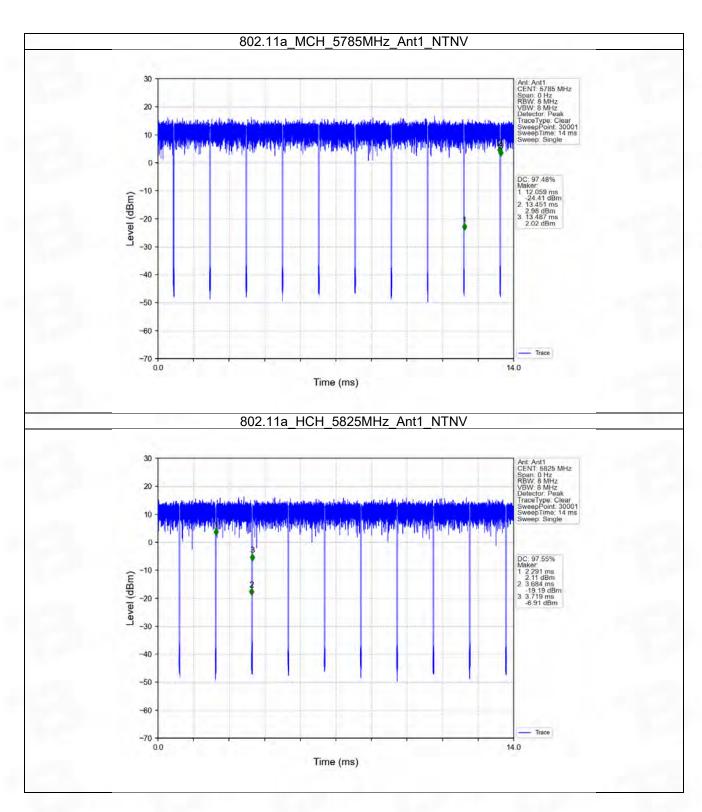
1.1.2 Test Graph

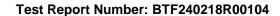




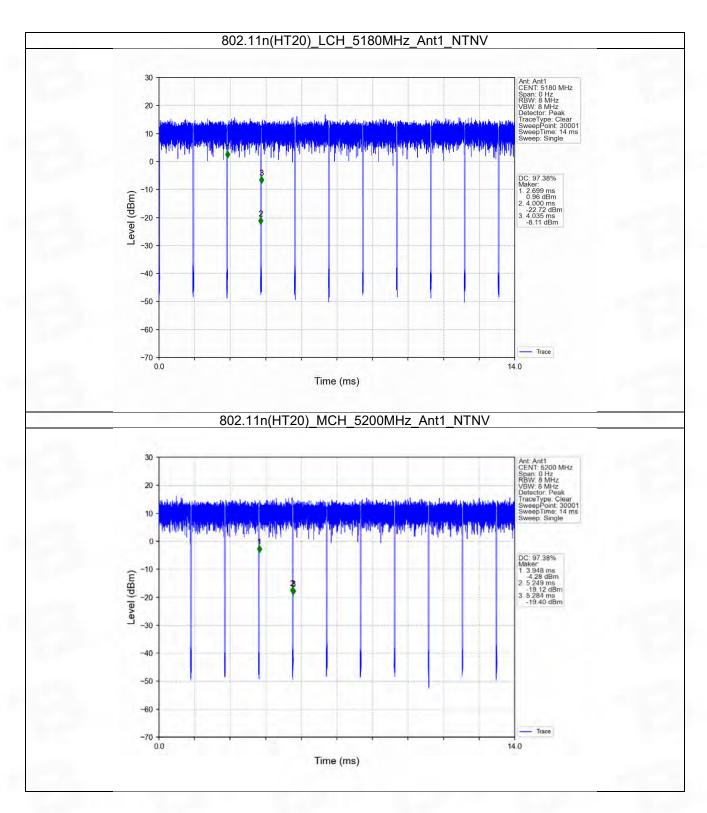




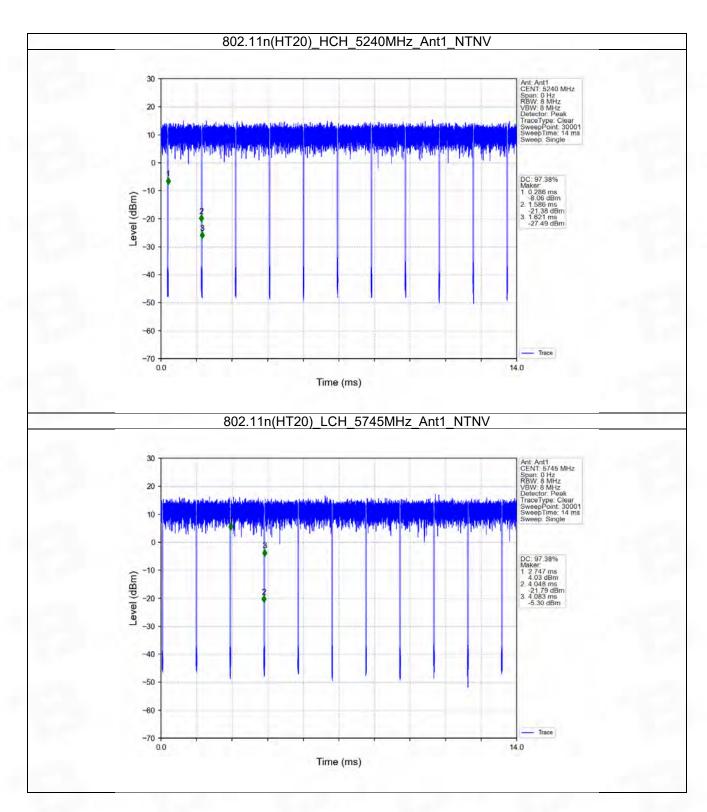




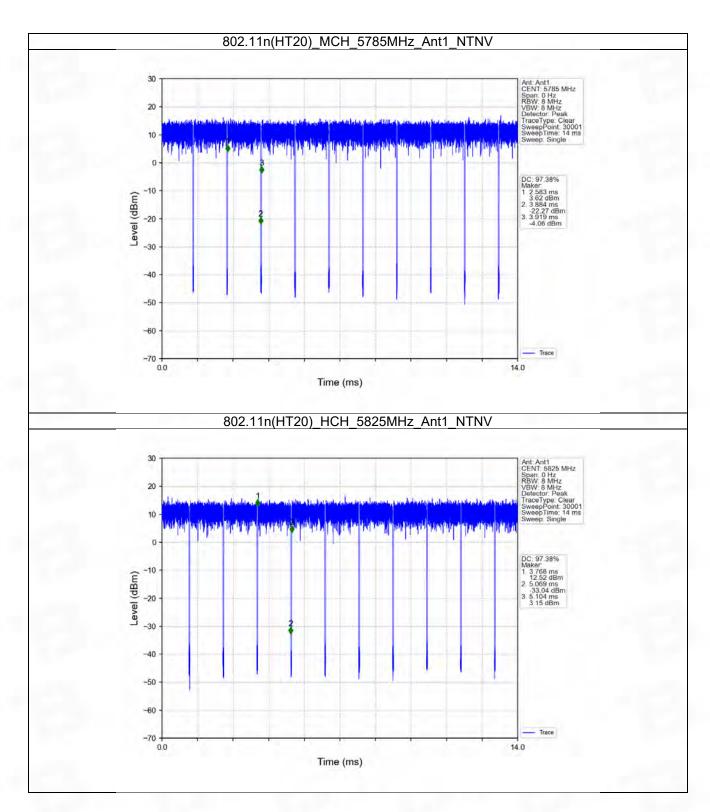


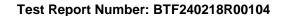




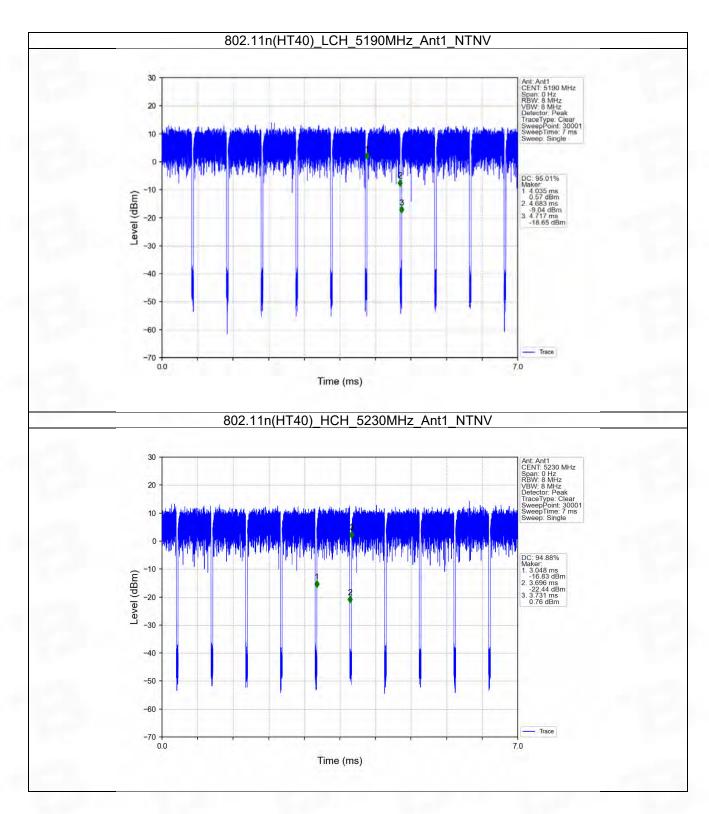




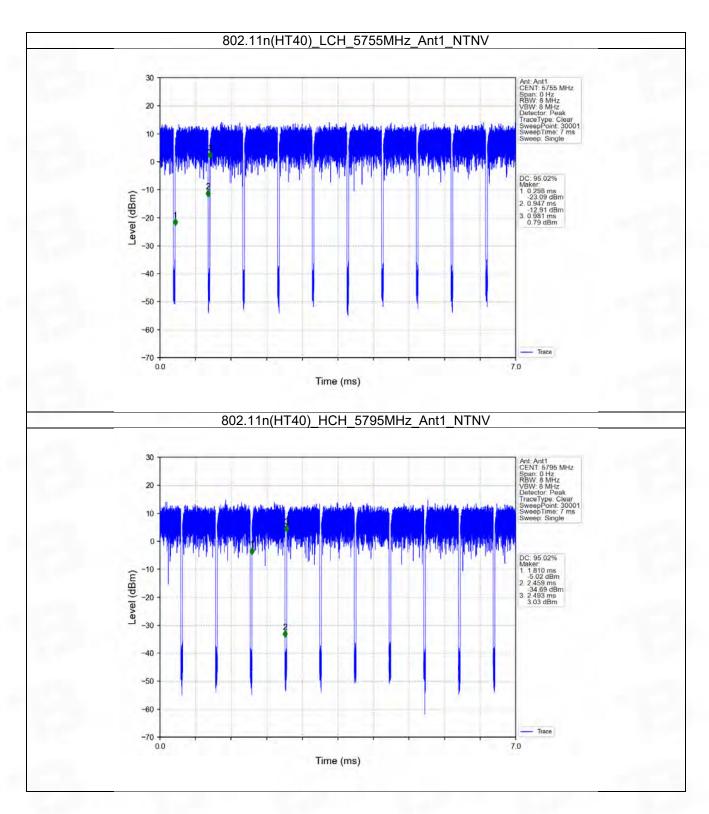




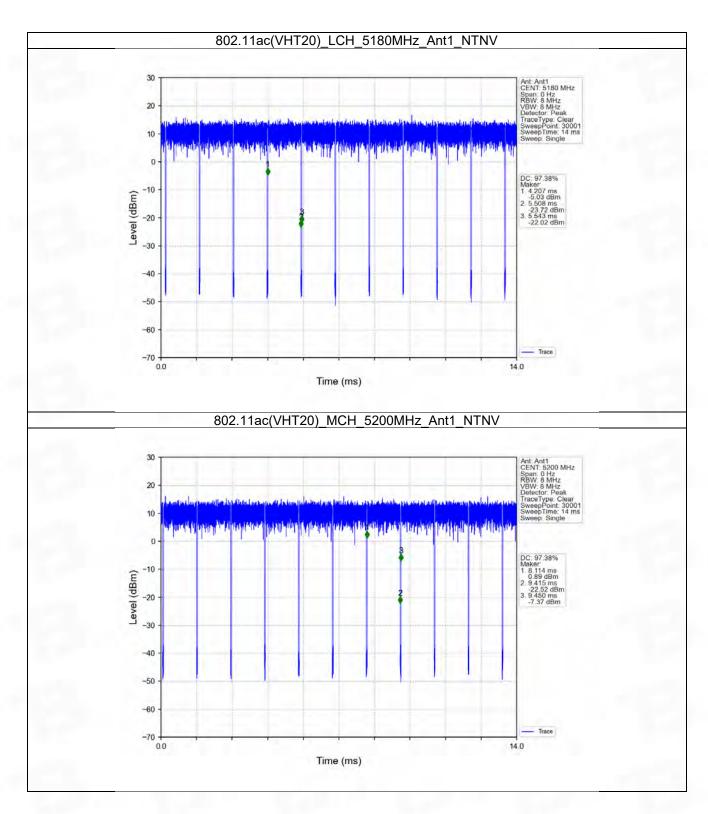




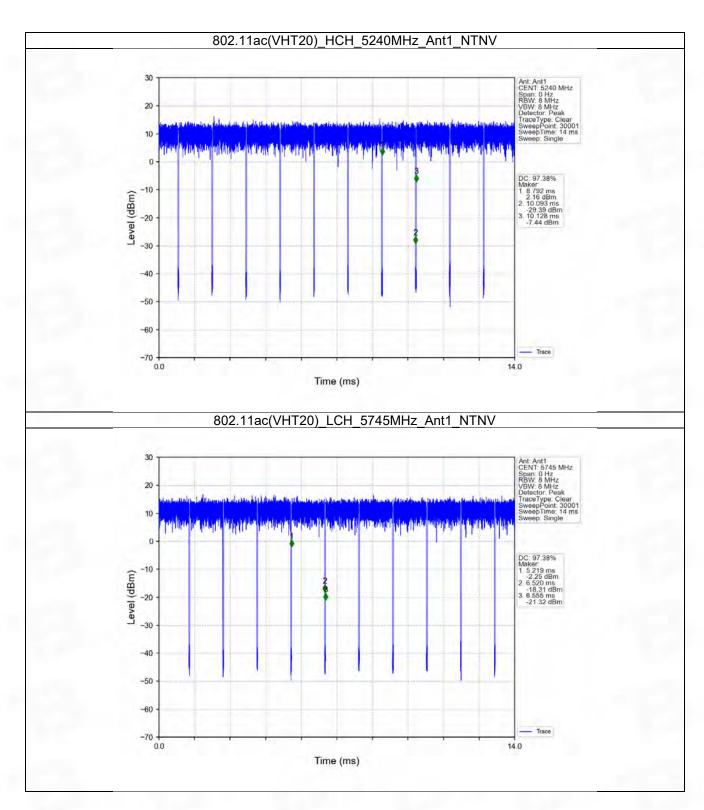




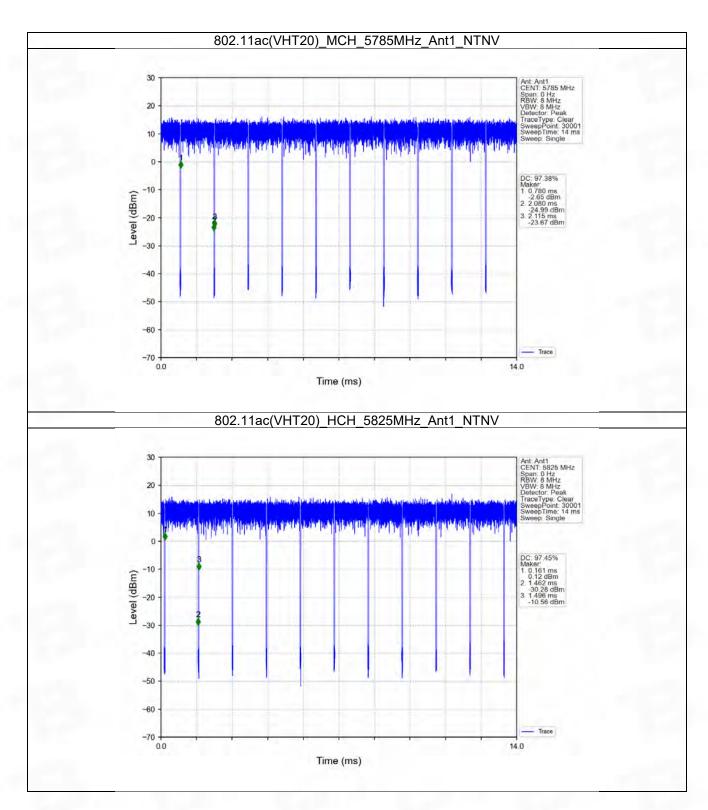




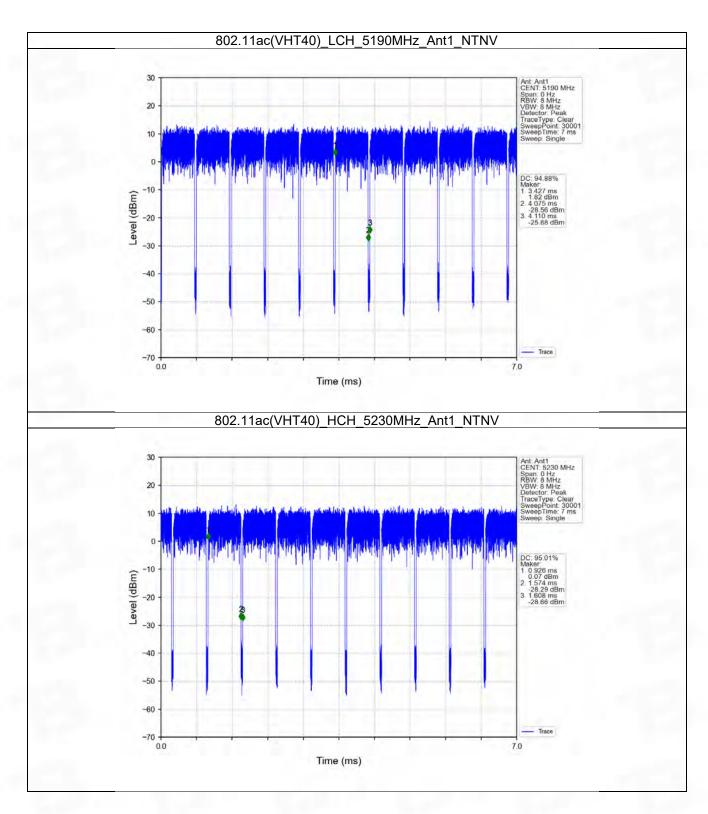




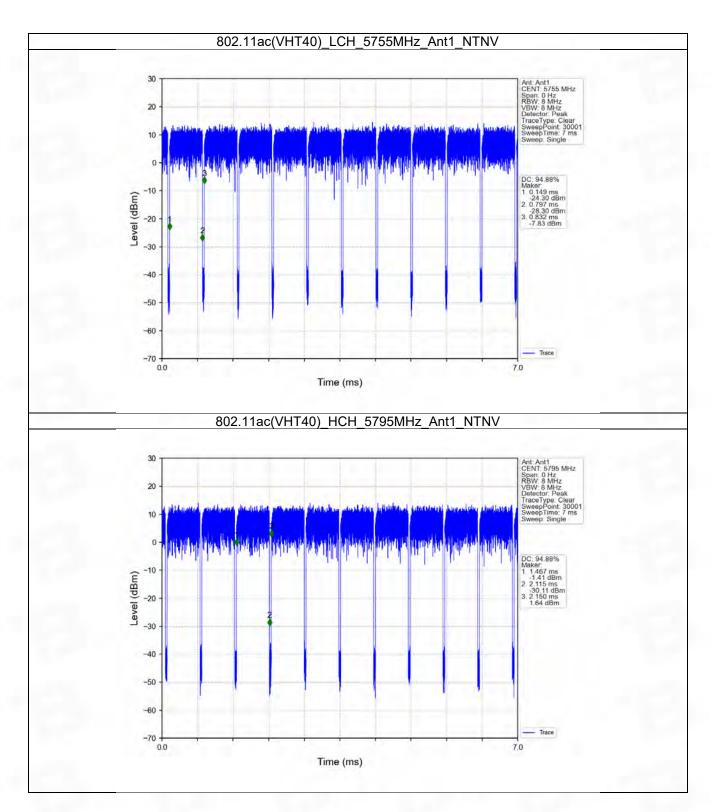


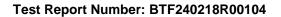












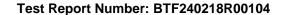


2. Bandwidth

2.1 OBW

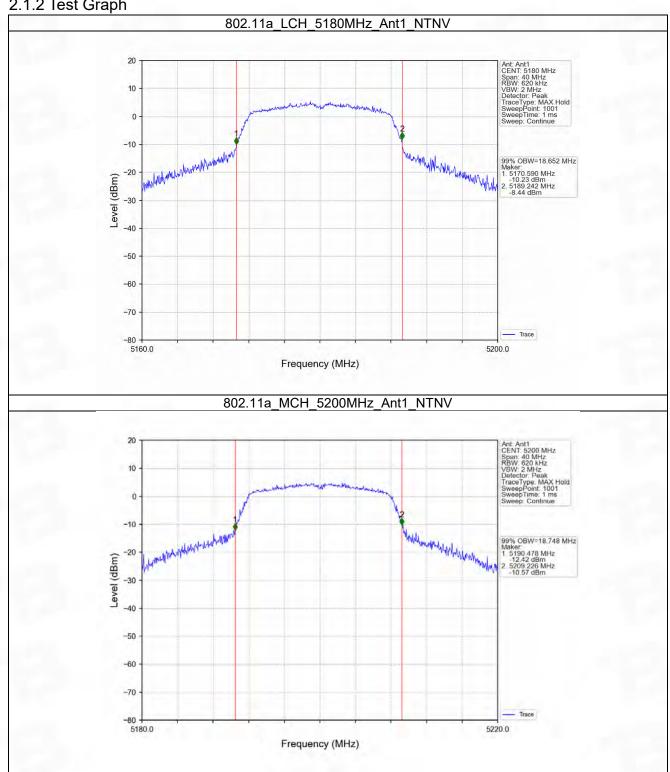
2.1.1 Test Result

| Mode | TX | Frequency | ANT | 99% Occupied B | Bandwidth (MHz) | Verdict |
|----------|------|-----------|------|----------------|-----------------|---------|
| Mode | Туре | (MHz) | AINT | Result | Limit | verdict |
| | | 5180 | 1 | 18.652 | 1 | Pass |
| | | 5200 | 1 | 18.748 | 1 | Pass |
| 802.11a | SISO | 5240 | 1 | 18.967 | 1 | Pass |
| 002.11a | 3130 | 5745 | 1 | 23.619 | 1 | Pass |
| | | 5785 | 1 | 22.250 | 1 | Pass |
| | | 5825 | 1 | 21.913 | 1 | Pass |
| | | 5180 | 1 | 19.470 | 1 | Pass |
| | | 5200 | 1 | 19.669 | 1 | Pass |
| 802.11n | CICO | 5240 | 1 | 19.378 | 1 | Pass |
| (HT20) | SISO | 5745 | 1 | 24.377 | 1 | Pass |
| | | 5785 | 1 | 23.338 | 1 | Pass |
| | | 5825 | 1 | 22.163 | 1 | Pass |
| | | 5190 | 1 | 38.719 | 1 | Pass |
| 802.11n | CICO | 5230 | 1 | 39.664 | 1 | Pass |
| (HT40) | SISO | 5755 | 1 | 45.713 | 1 | Pass |
| | | 5795 | 1 | 44.779 | 1 | Pass |
| | | 5180 | 1 | 19.764 | 1 | Pass |
| | | 5200 | 1 | 19.539 | 1 | Pass |
| 802.11ac | SISO | 5240 | 1 | 19.885 | 1 | Pass |
| (VHT20) | 3130 | 5745 | 1 | 24.025 | 1 | Pass |
| | | 5785 | 1 | 23.100 | 1 | Pass |
| | | 5825 | 1 | 22.512 | 1 | Pass |
| | | 5190 | 1 | 38.880 | 1 | Pass |
| 802.11ac | CICO | 5230 | 1 | 40.031 | 1 | Pass |
| (VHT40) | SISO | 5755 | 1 | 46.810 | 1 | Pass |
| | | 5795 | 1 | 44.840 | 1 | Pass |

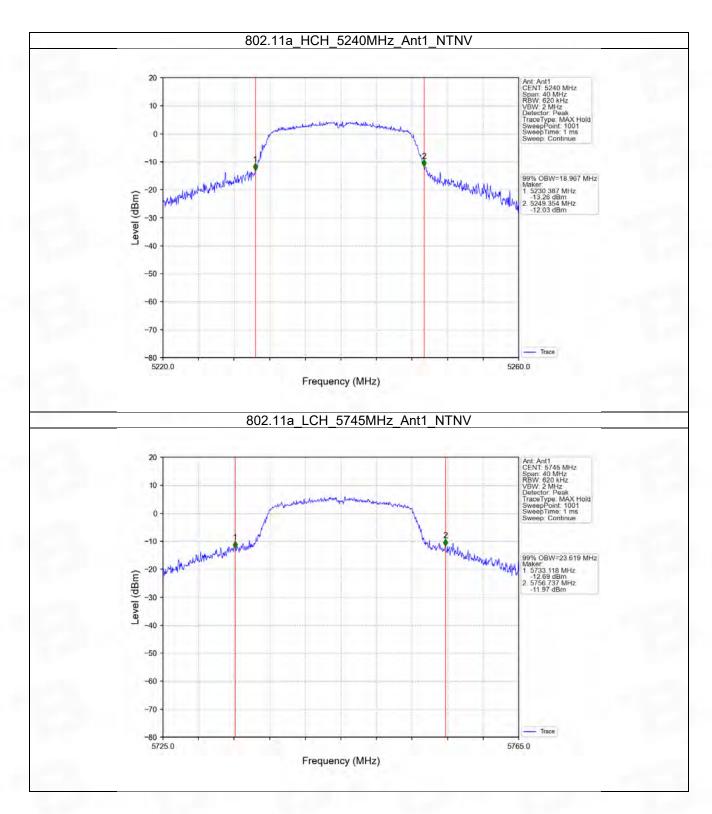




2.1.2 Test Graph

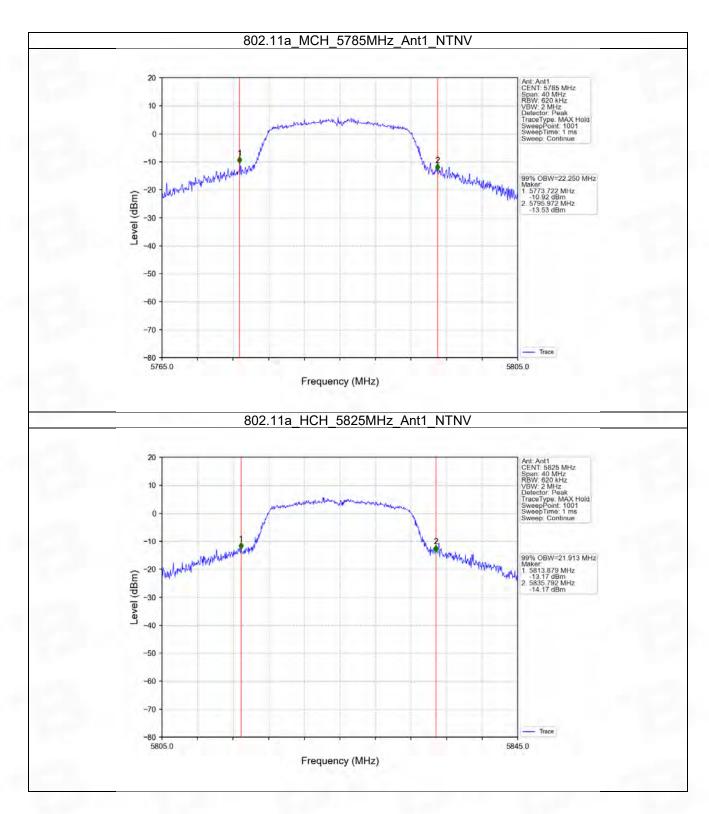






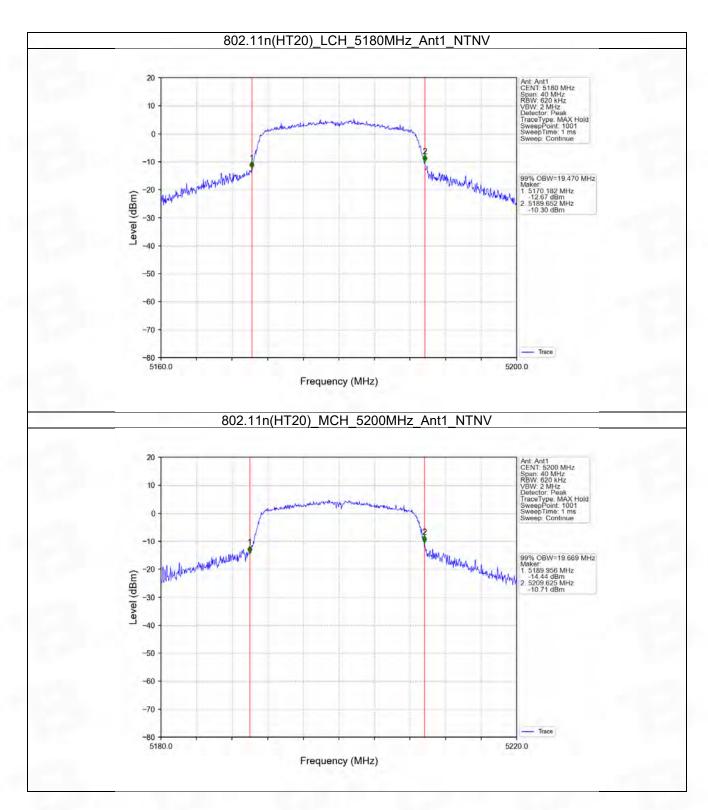






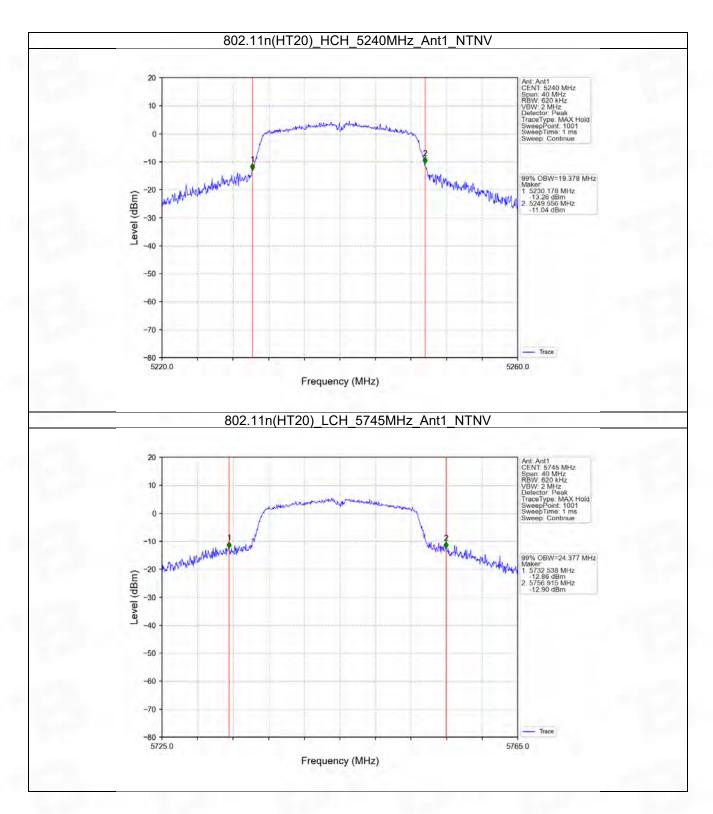






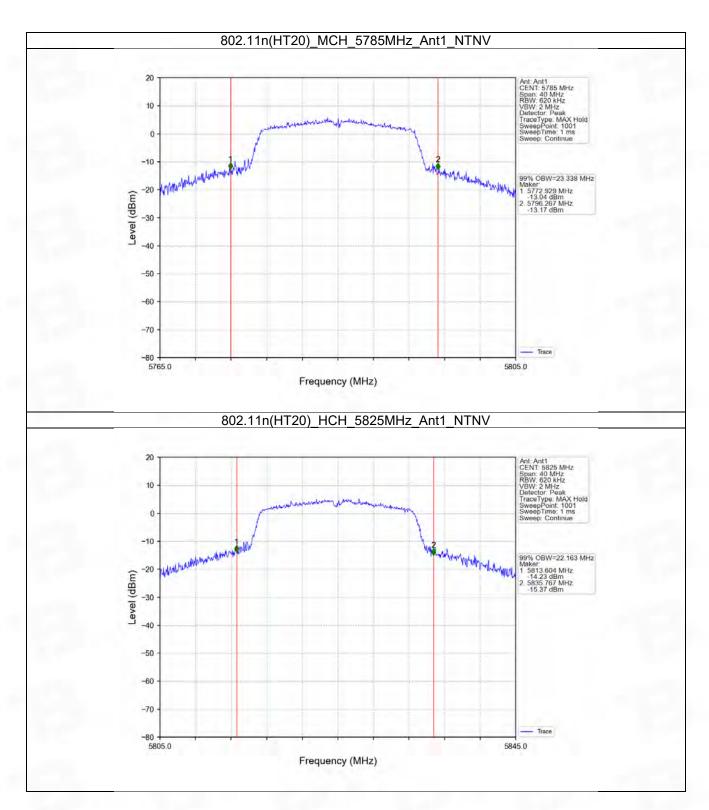






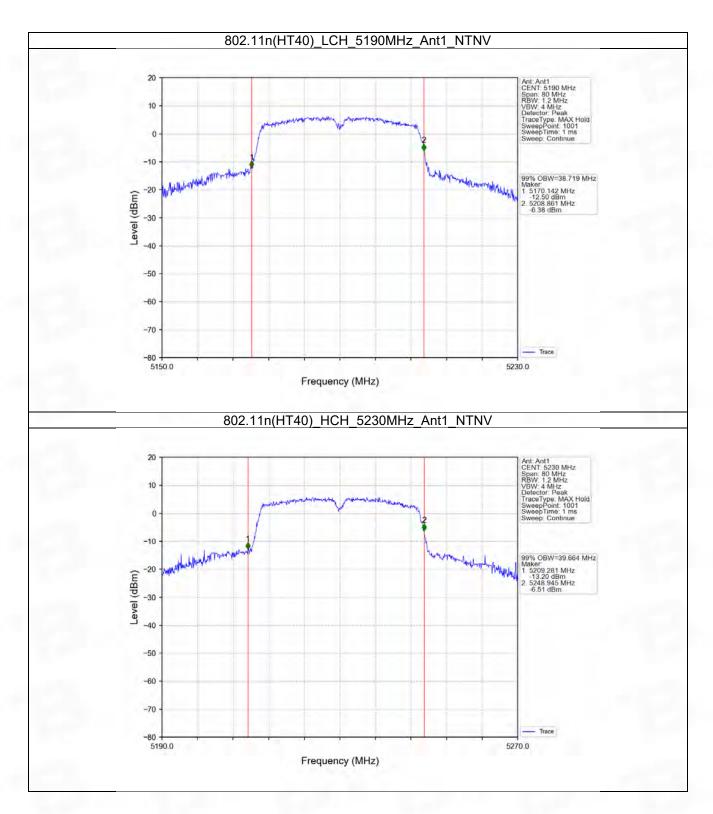






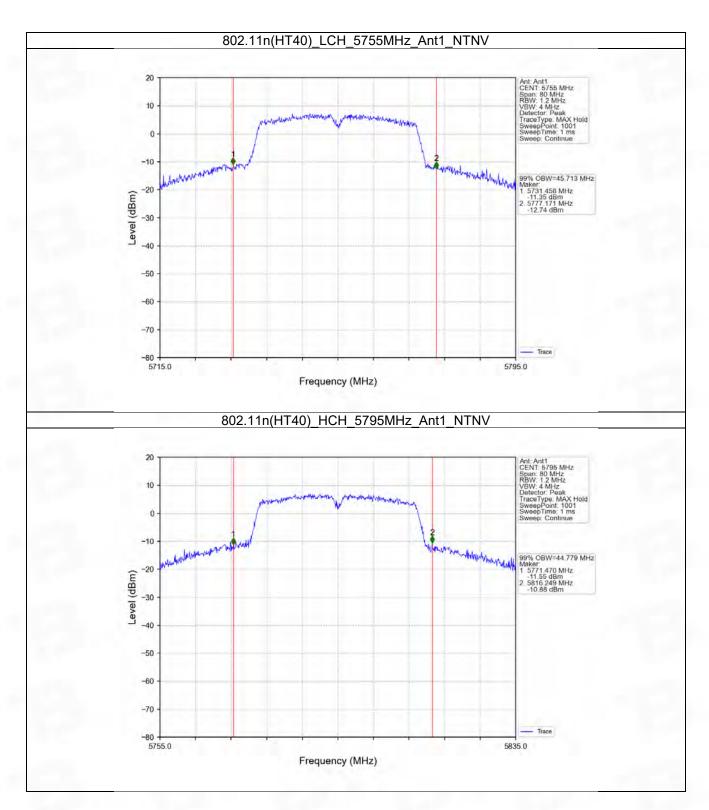






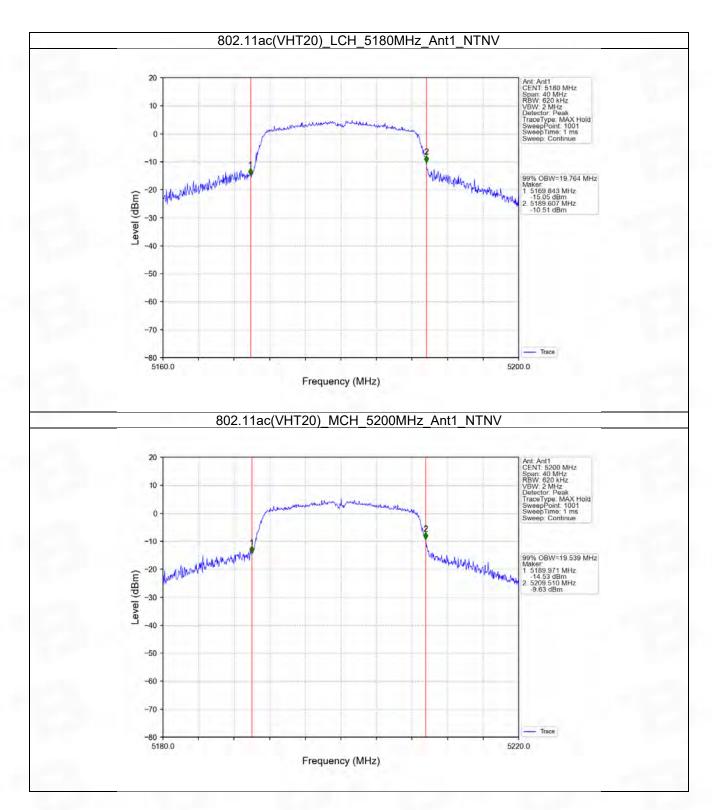


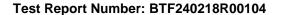




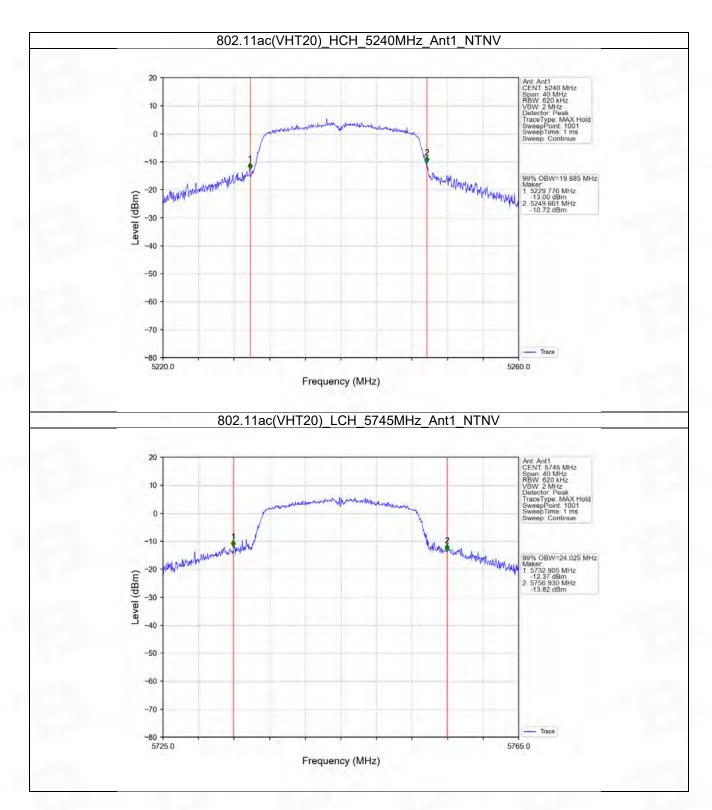


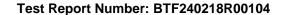




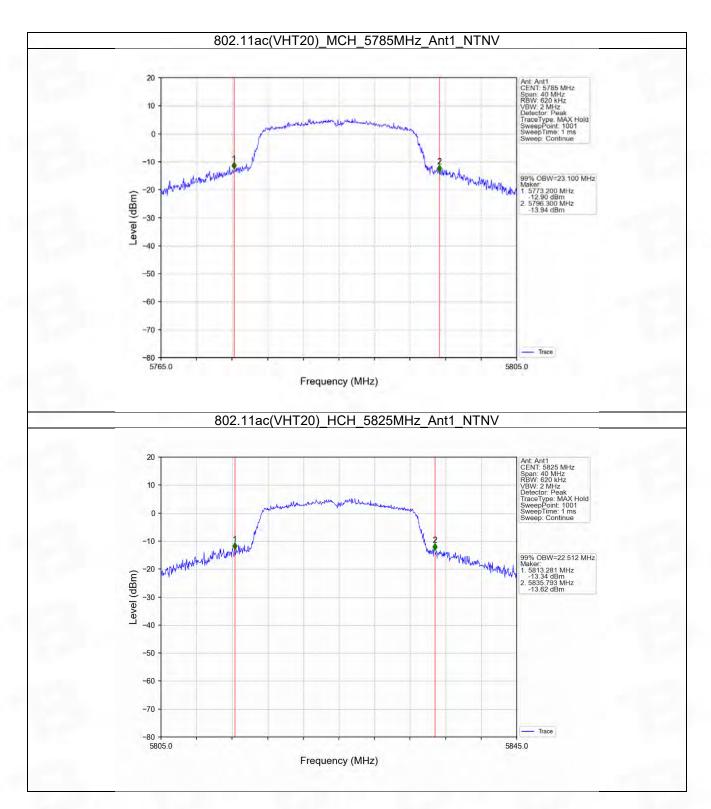






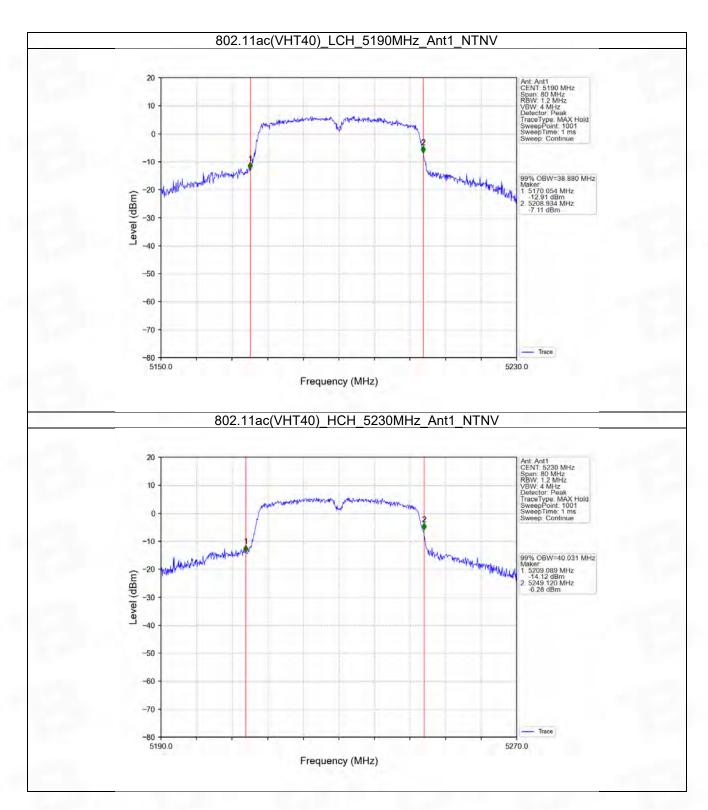


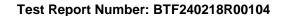




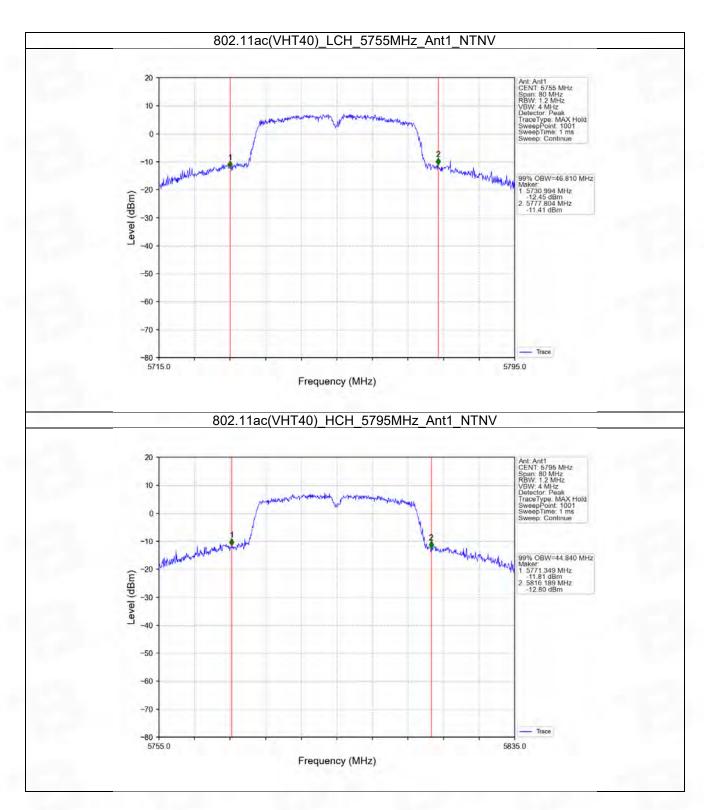


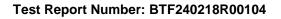










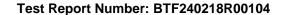




2.2 6dB BW

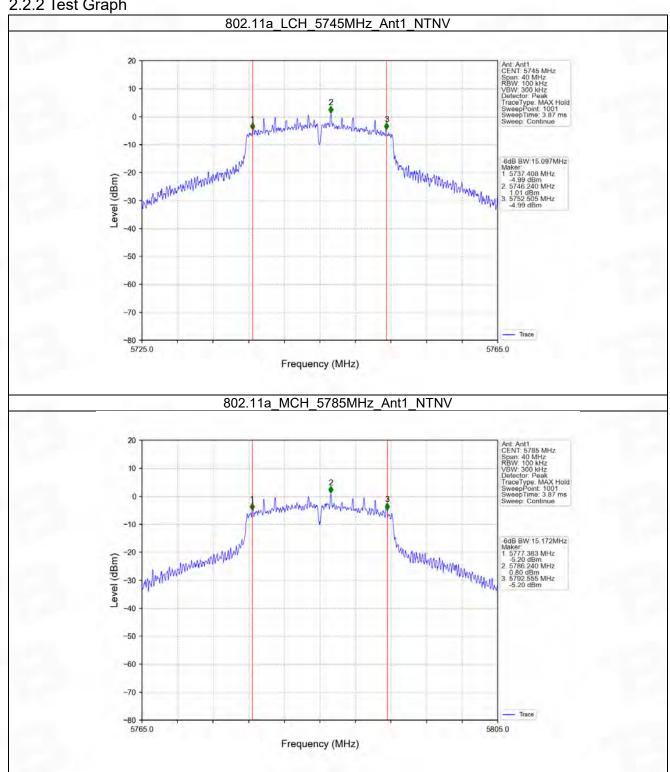
2.2.1 Test Result

| Mada | TX | Frequency | ANT | 6dB Bandv | vidth (MHz) | Verdict |
|-----------|------|-----------|-----|-----------|-------------|---------|
| Mode | Туре | (MHz) | ANT | Result | Limit | verdict |
| | | 5745 | 1 | 15.097 | >=0.5 | Pass |
| 802.11a | SISO | 5785 | 1 | 15.172 | >=0.5 | Pass |
| | | 5825 | 1 | 15.560 | >=0.5 | Pass |
| 902 11p | | 5745 | 1 | 15.485 | >=0.5 | Pass |
| 802.11n | SISO | 5785 | 1 | 15.147 | >=0.5 | Pass |
| (HT20) | | 5825 | 1 | 15.113 | >=0.5 | Pass |
| 802.11n | SISO | 5755 | 1 | 35.190 | >=0.5 | Pass |
| (HT40) | 3130 | 5795 | 1 | 35.178 | >=0.5 | Pass |
| 802.11ac | | 5745 | 1 | 15.156 | >=0.5 | Pass |
| (VHT20) | SISO | 5785 | 1 | 15.170 | >=0.5 | Pass |
| (VIII 20) | | 5825 | 1 | 15.171 | >=0.5 | Pass |
| 802.11ac | SISO | 5755 | 1 | 35.175 | >=0.5 | Pass |
| (VHT40) | 3130 | 5795 | 1 | 35.357 | >=0.5 | Pass |

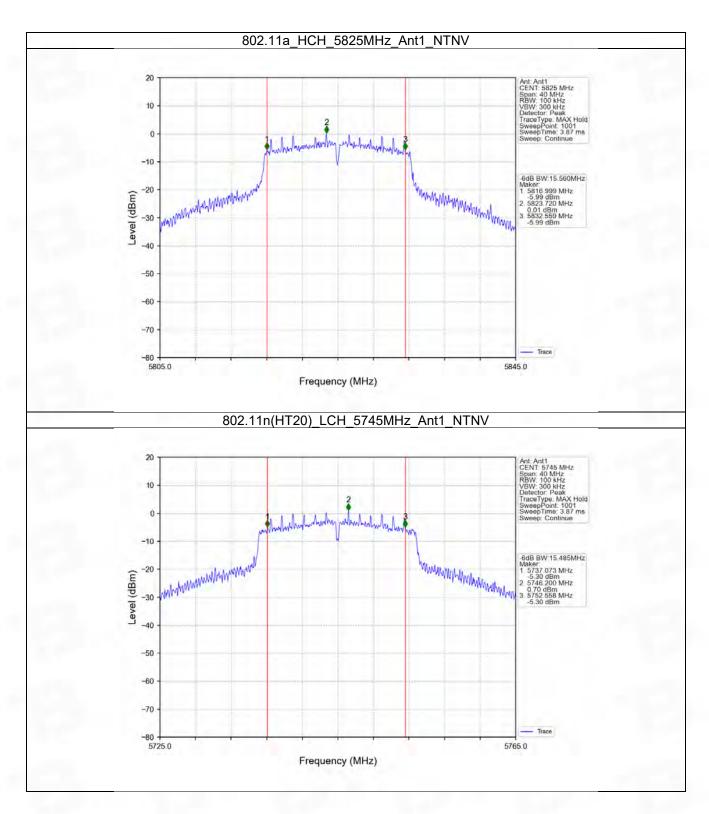


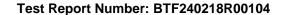


2.2.2 Test Graph

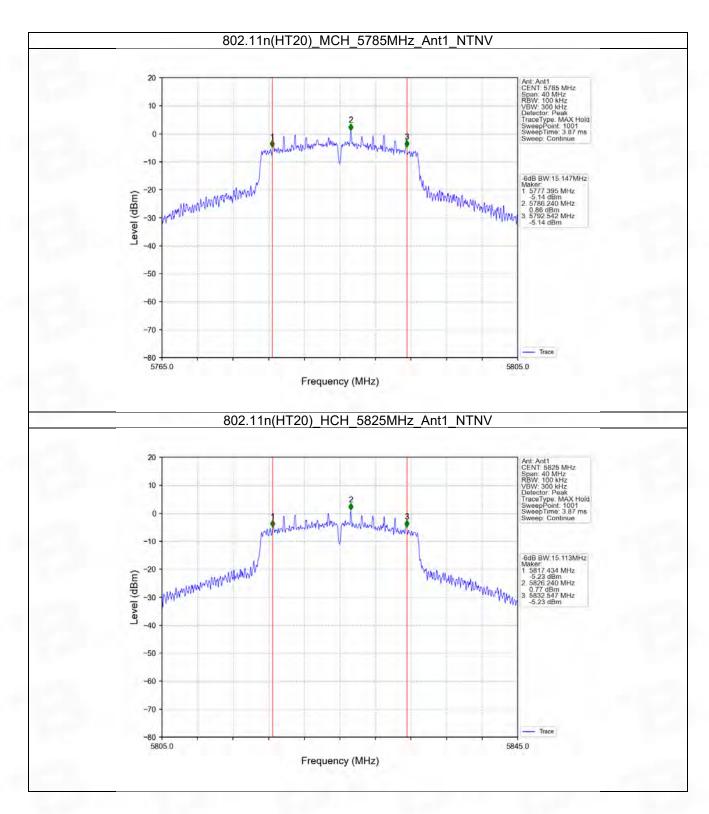






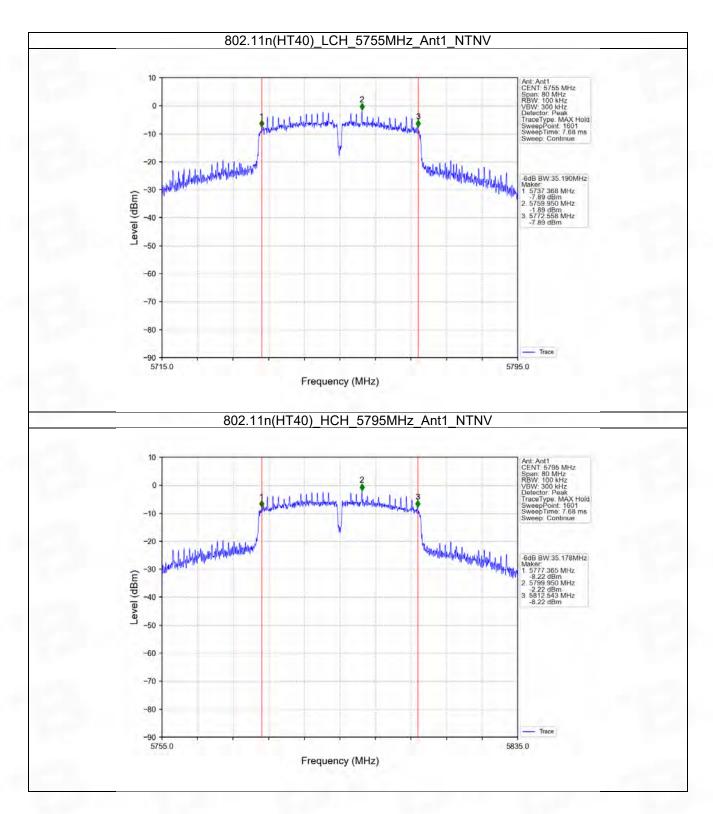






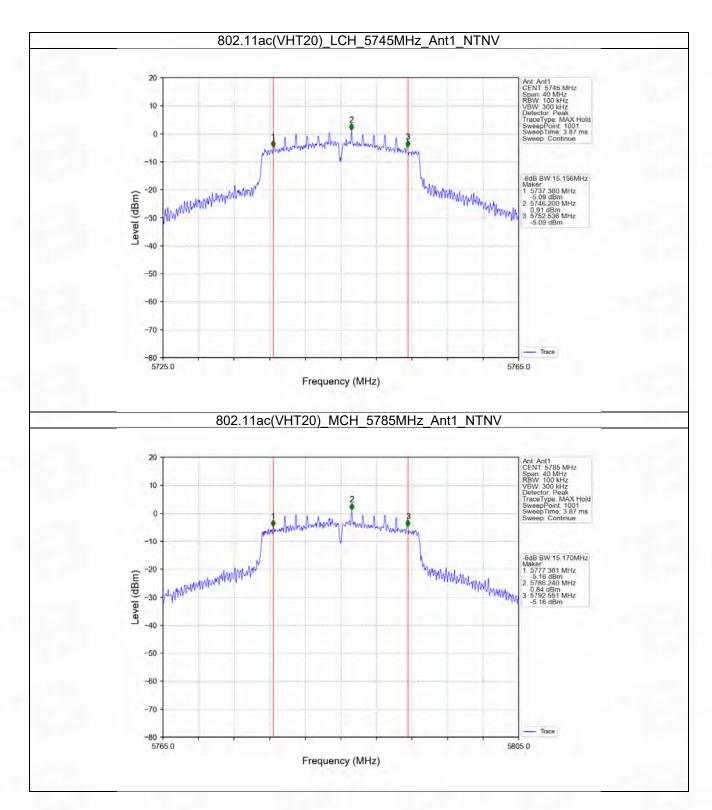






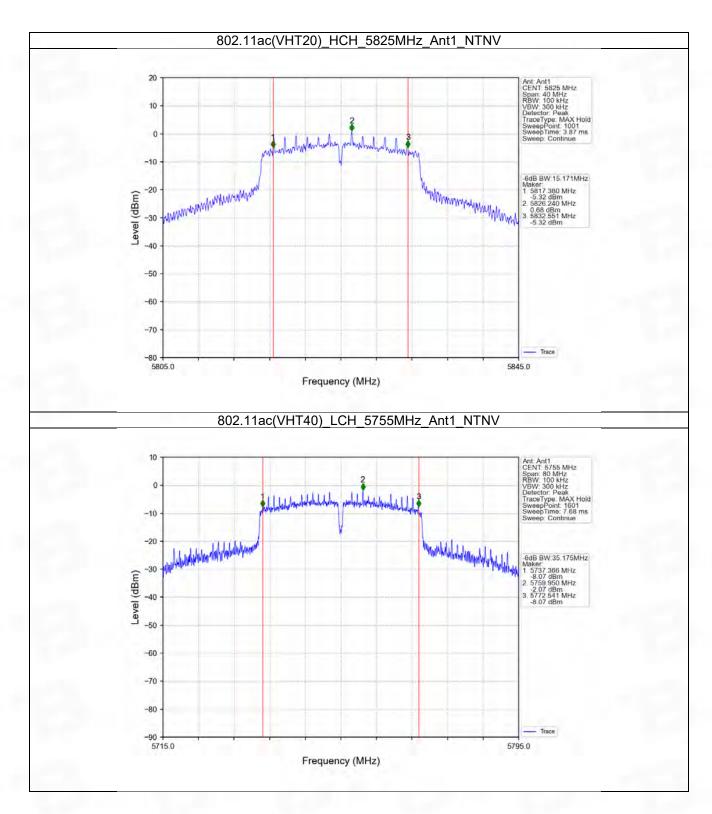


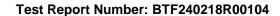




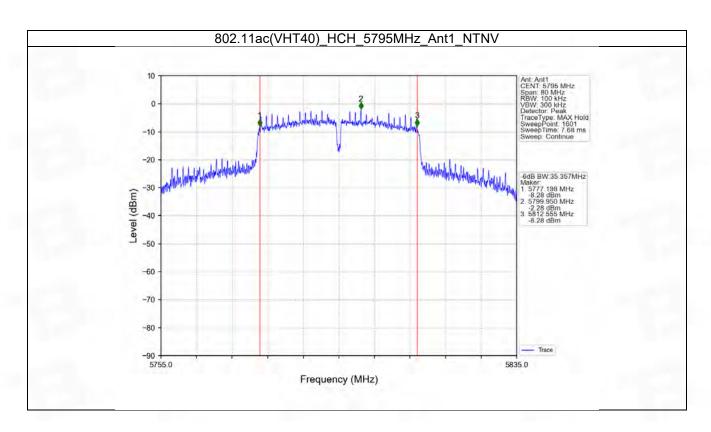


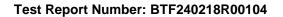










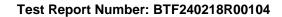




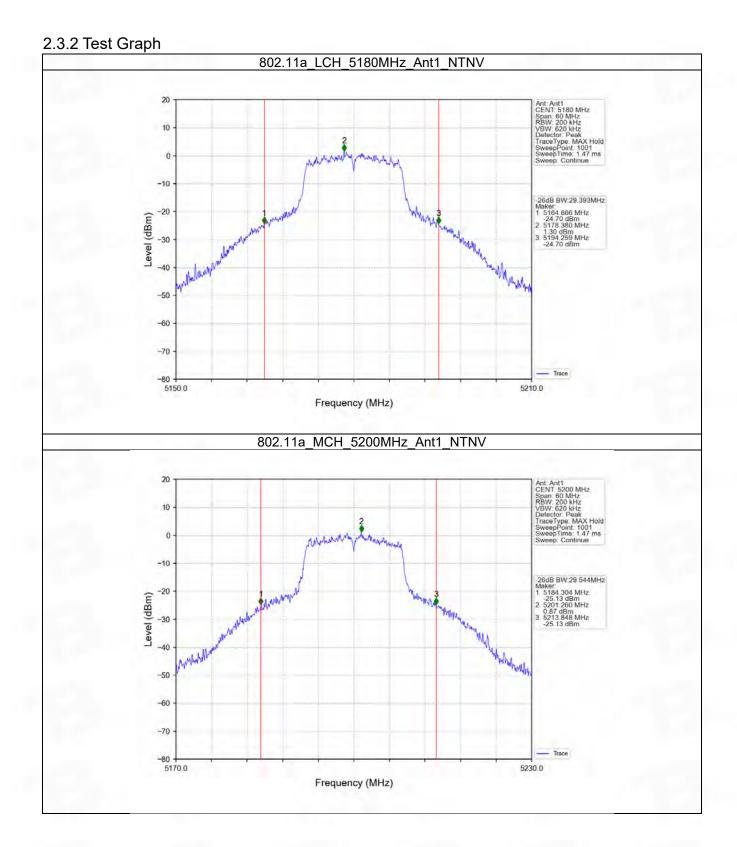
2.3 26dB BW

2.3.1 Test Result

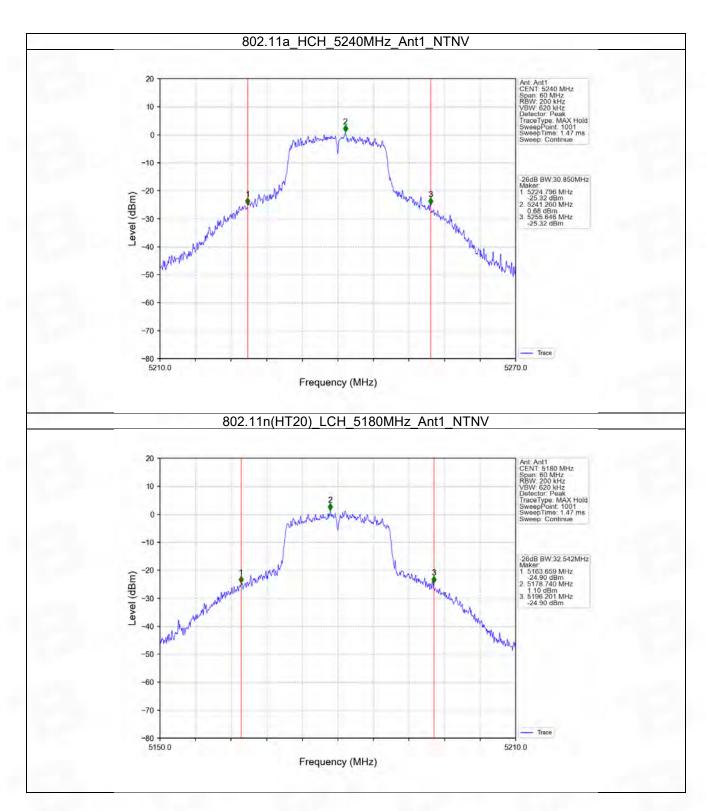
| Mode | TX | Frequency (MHz) | ANT | 26dB Bandwidth (MHz) | | \/a valiat |
|---------------------|------|--------------------|-----|----------------------|-------|------------|
| | Туре | | | Result | Limit | Verdict |
| 802.11a | SISO | 5180 | 1 | 29.393 | 1 | Pass |
| | | 5200 | 1 | 29.544 | / | Pass |
| | | 5240 | 1 | 30.850 | 1 | Pass |
| 802.11n (HT20) | SISO | 5180 | 1 | 32.542 | / | Pass |
| | | 5200 | 1 | 31.685 | / | Pass |
| | | 5240 | 1 | 32.277 | / | Pass |
| 802.11n (HT40) | SISO | 5190 | 1 | 75.006 | / | Pass |
| | | 5230 | 1 | 75.983 | 1 | Pass |
| 802.11ac (VHT20) | SISO | 5180 | 1 | 32.322 | 1 | Pass |
| | | 5200 | 1 | 31.369 | / | Pass |
| | | 5240 | 1 | 34.336 | 1 | Pass |
| 802.11ac (VHT40) | SISO | 5190 | 1 | 74.641 | 1 | Pass |
| | | 5230 | 1 | 75.959 | 1 | Pass |



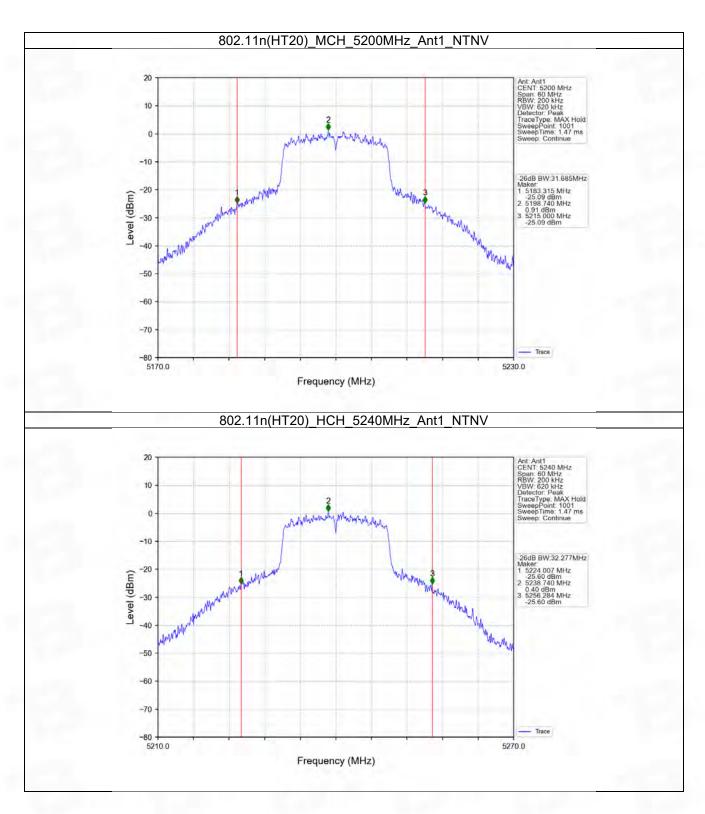


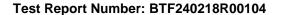




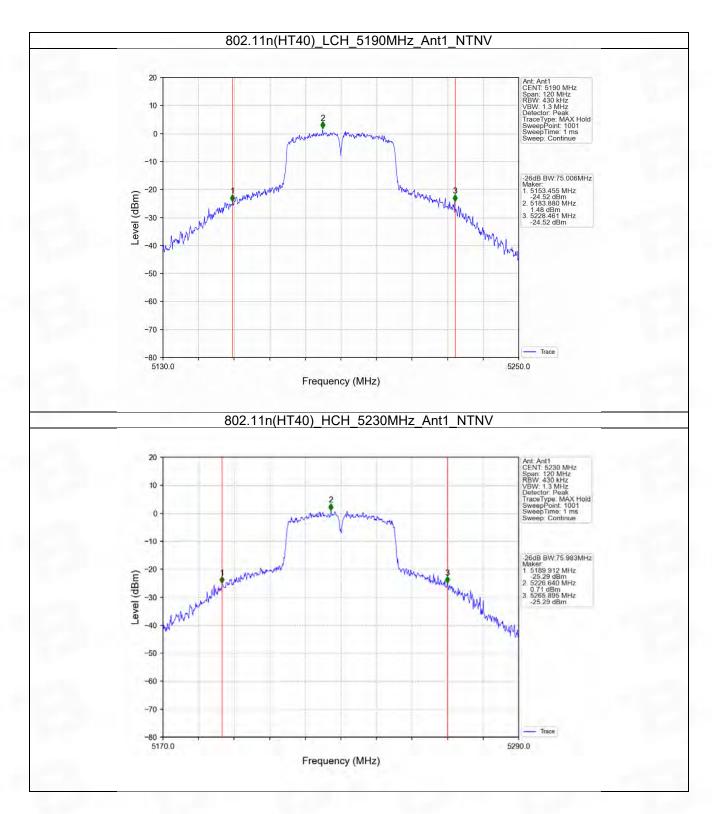






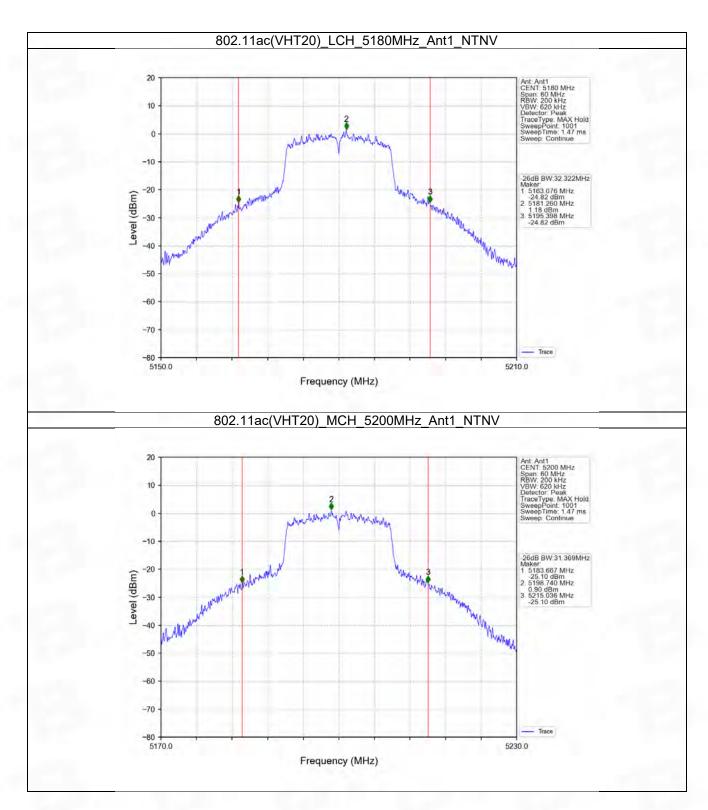




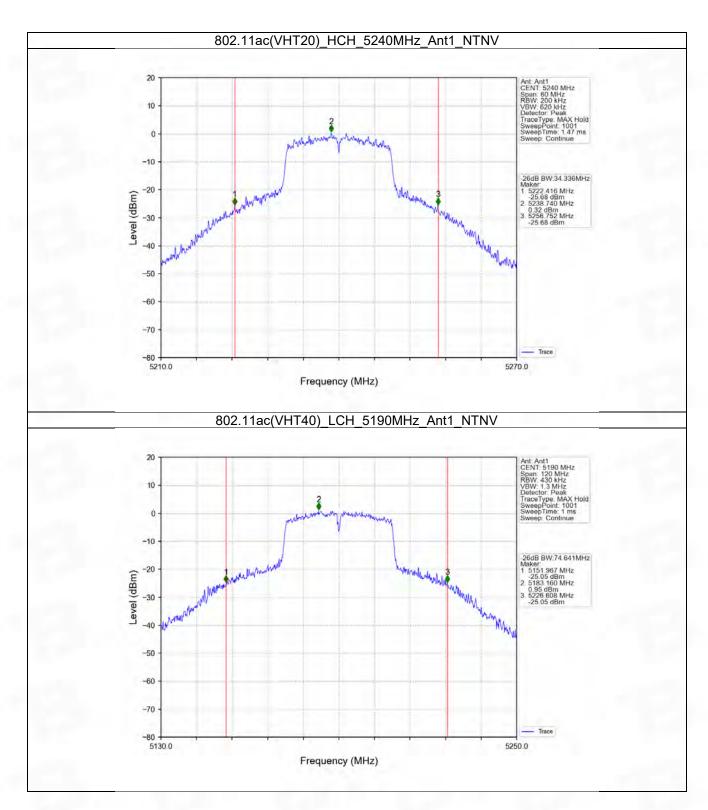


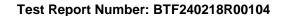




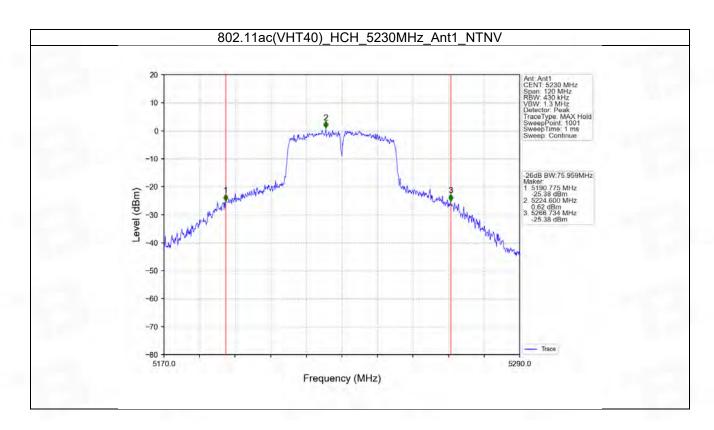


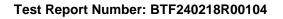














3. Maximum Conducted Output Power

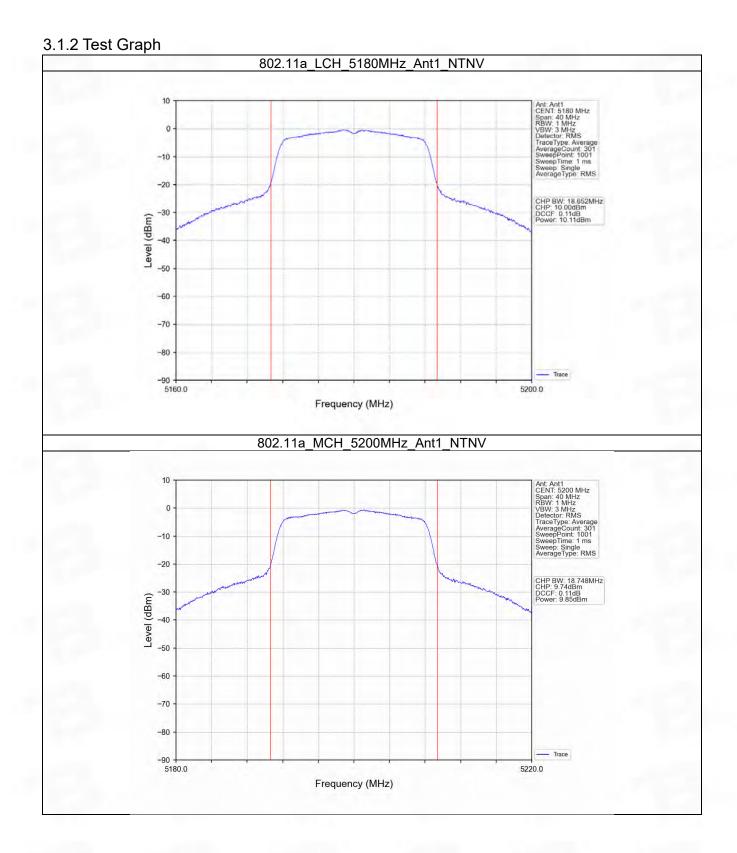
3.1 Power

3.1.1 Test Result

| Mode | TX | Frequency | Maximum Average Cond | ucted Output Power (dBm) | \/audiat |
|---------------------|------|-----------|----------------------|--------------------------|----------|
| | Туре | (MHz) | ANT1 | Limit | Verdict |
| 802.11a | SISO | 5180 | 10.11 | <=23.98 | Pass |
| | | 5200 | 9.85 | <=23.98 | Pass |
| | | 5240 | 9.43 | <=23.98 | Pass |
| | | 5745 | 10.73 | <=30 | Pass |
| | | 5785 | 10.37 | <=30 | Pass |
| | | 5825 | 10.16 | <=30 | Pass |
| 802.11n (HT20) | SISO | 5180 | 10.03 | <=23.98 | Pass |
| | | 5200 | 9.88 | <=23.98 | Pass |
| | | 5240 | 9.37 | <=23.98 | Pass |
| | | 5745 | 10.63 | <=30 | Pass |
| | | 5785 | 10.43 | <=30 | Pass |
| | | 5825 | 10.25 | <=30 | Pass |
| 802.11n (HT40) | SISO | 5190 | 10.60 | <=23.98 | Pass |
| | | 5230 | 10.13 | <=23.98 | Pass |
| | | 5755 | 11.41 | <=30 | Pass |
| | | 5795 | 11.25 | <=30 | Pass |
| 802.11ac (VHT20) | SISO | 5180 | 9.94 | <=23.98 | Pass |
| | | 5200 | 9.79 | <=23.98 | Pass |
| | | 5240 | 9.23 | <=23.98 | Pass |
| | | 5745 | 10.66 | <=30 | Pass |
| | | 5785 | 10.36 | <=30 | Pass |
| | | 5825 | 10.17 | <=30 | Pass |
| 802.11ac (VHT40) | SISO | 5190 | 10.54 | <=23.98 | Pass |
| | | 5230 | 10.05 | <=23.98 | Pass |
| | | 5755 | 11.42 | <=30 | Pass |
| | | 5795 | 11.31 | <=30 | Pass |

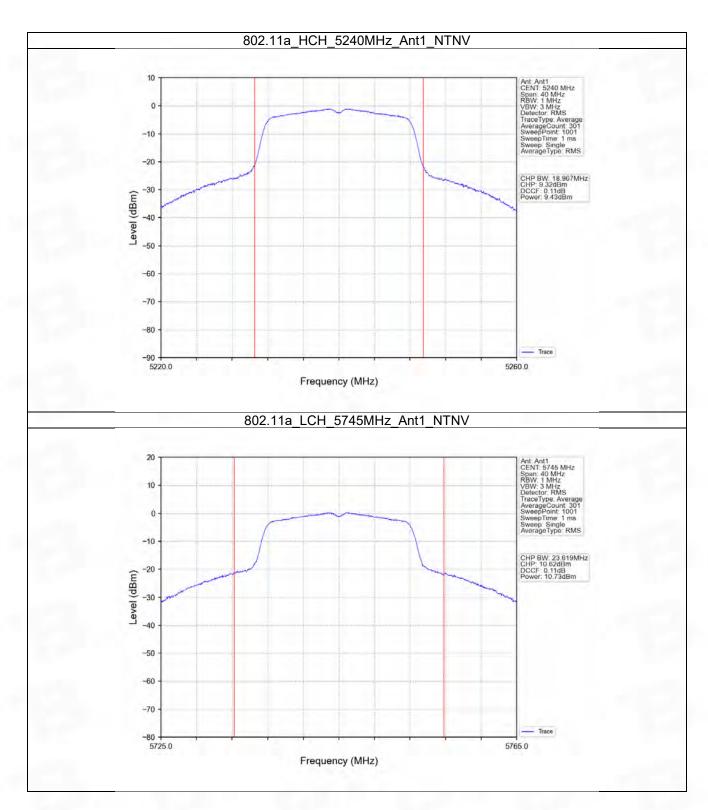






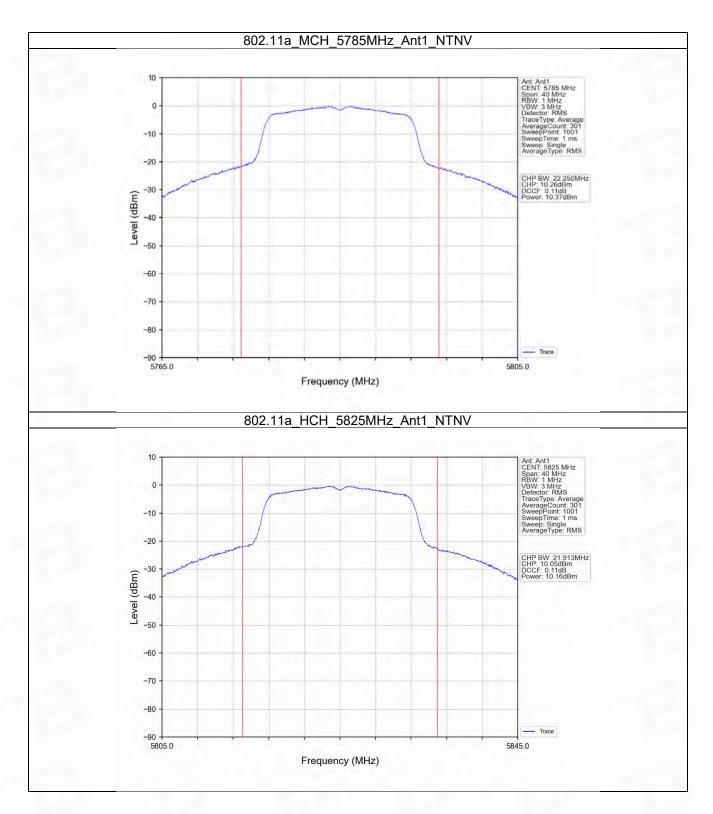






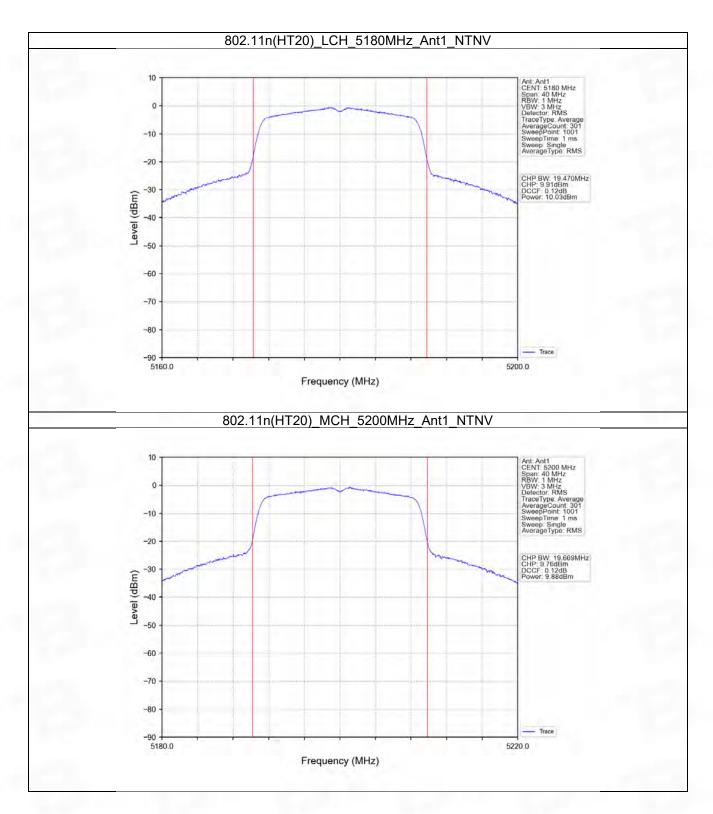






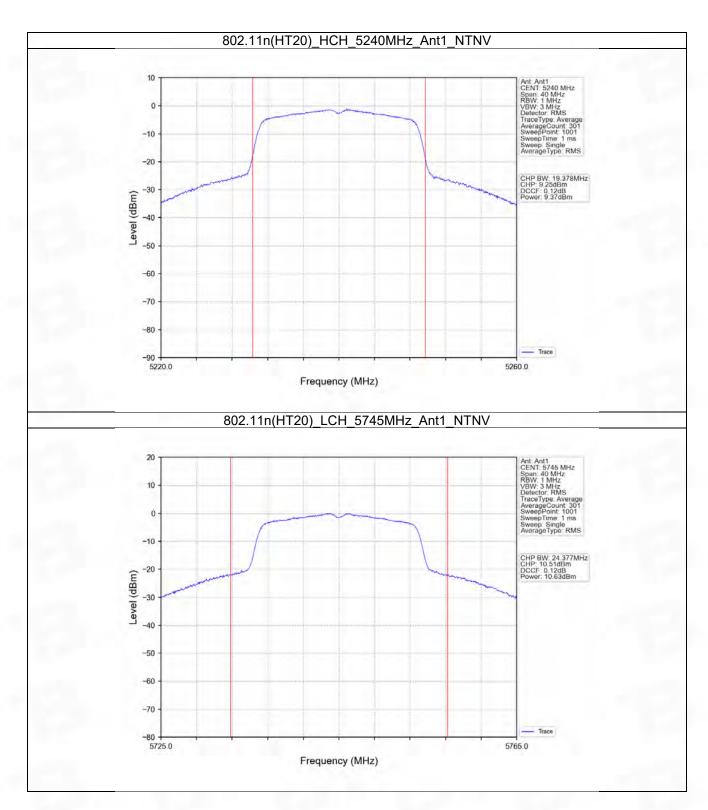






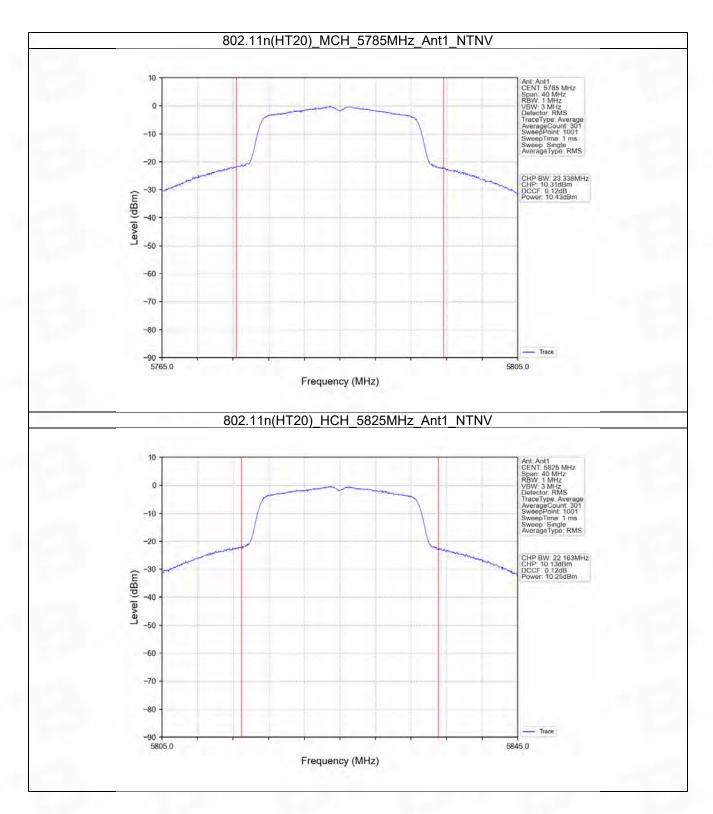


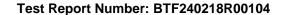




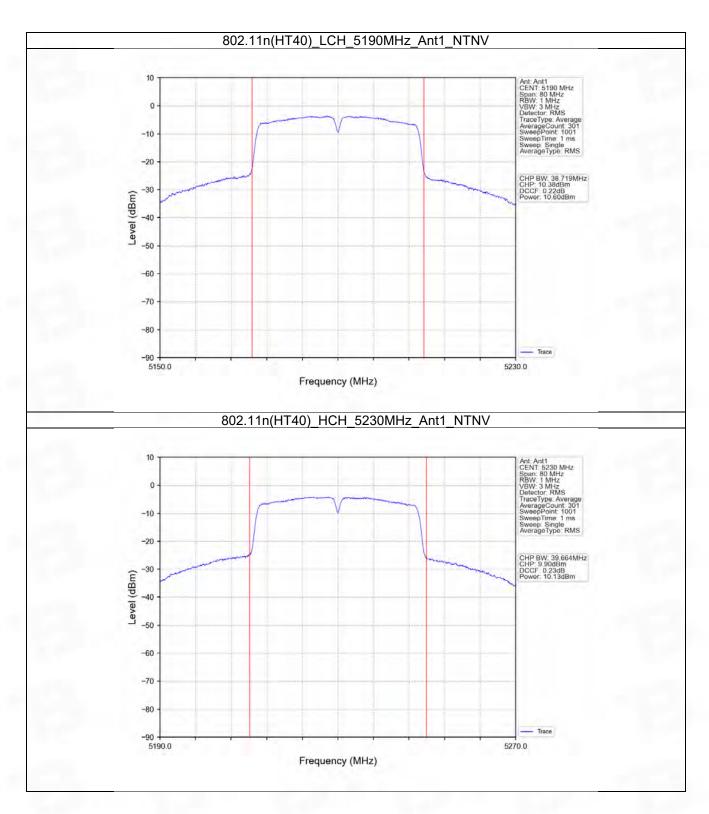






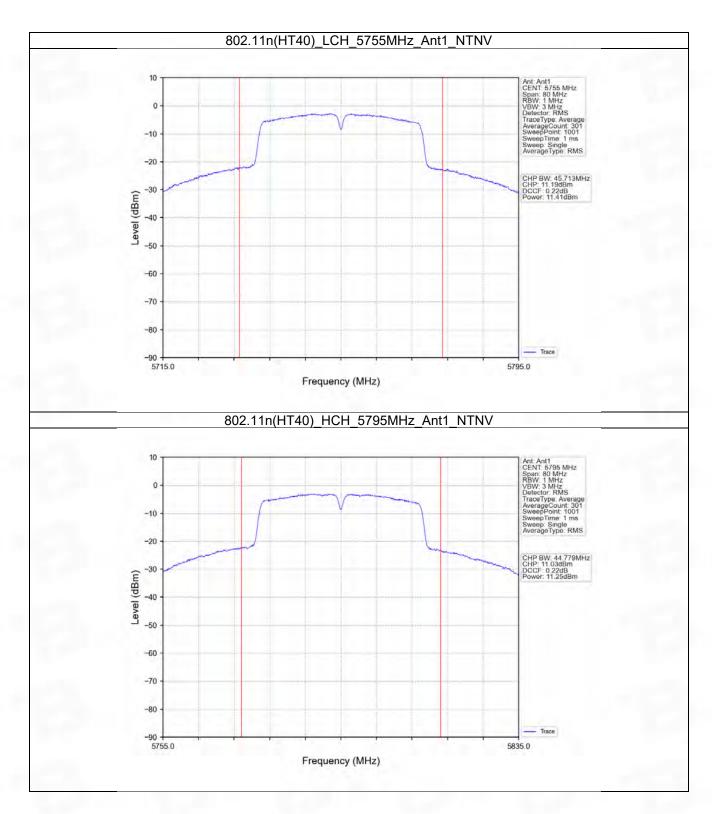


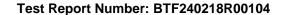




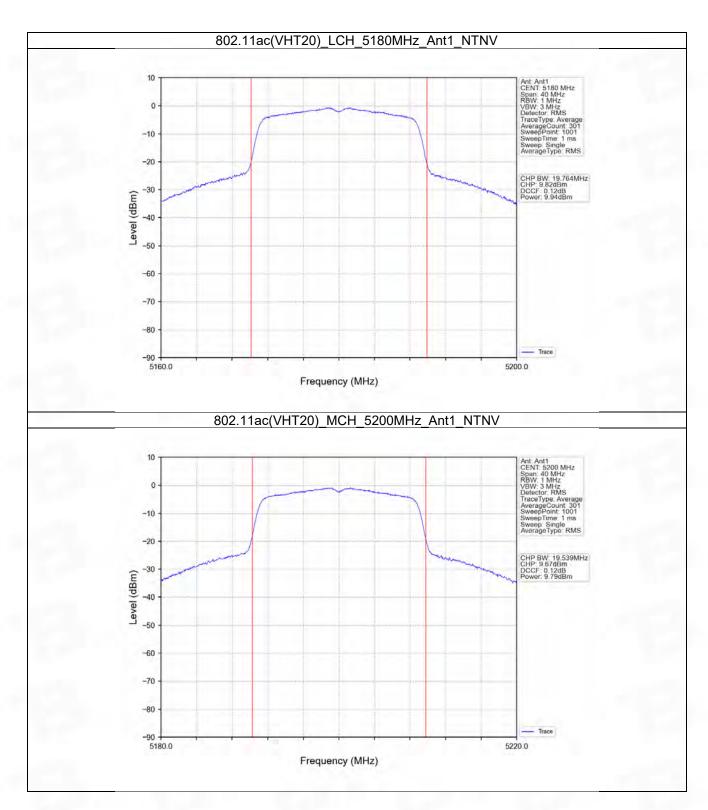


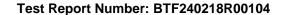




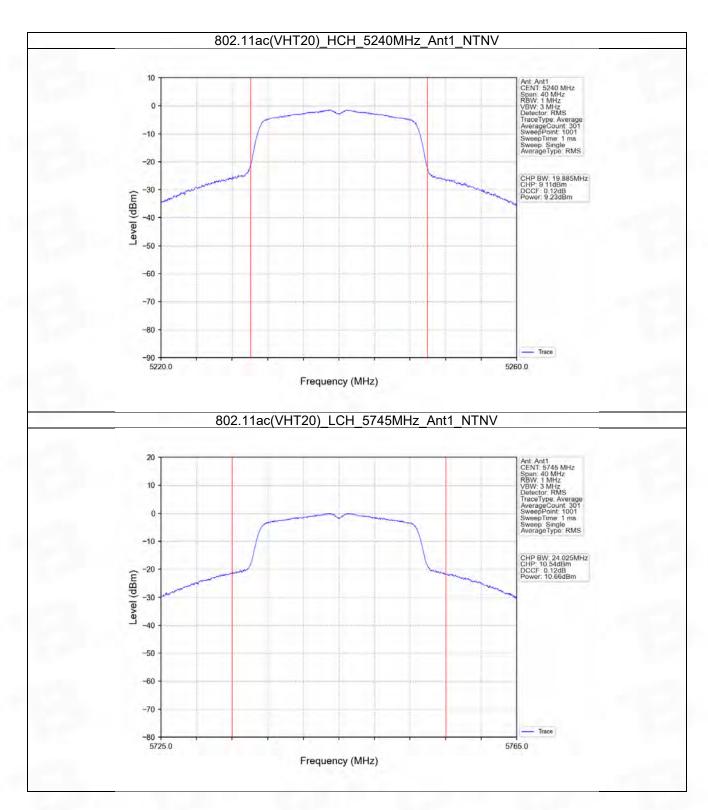


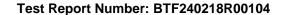




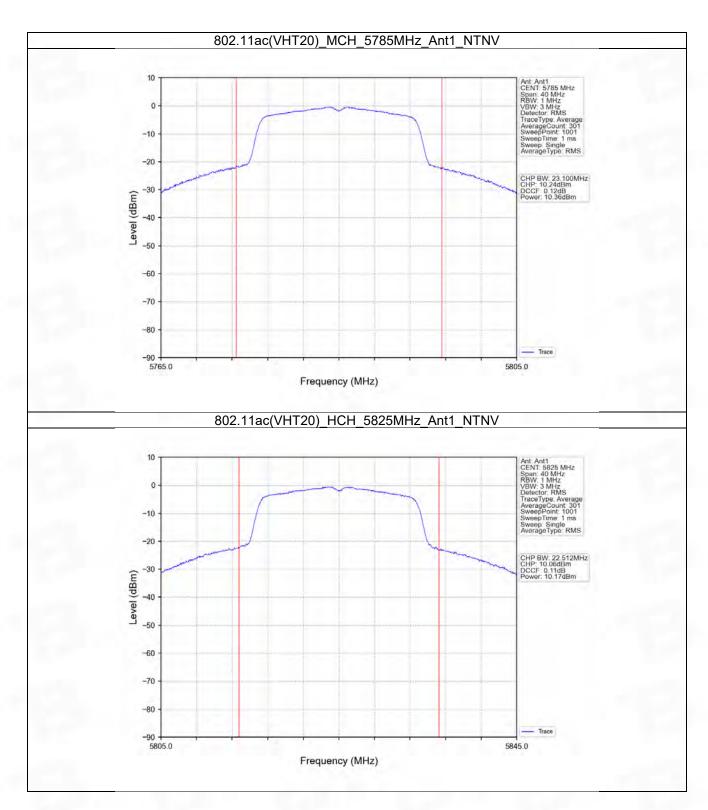


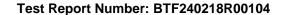




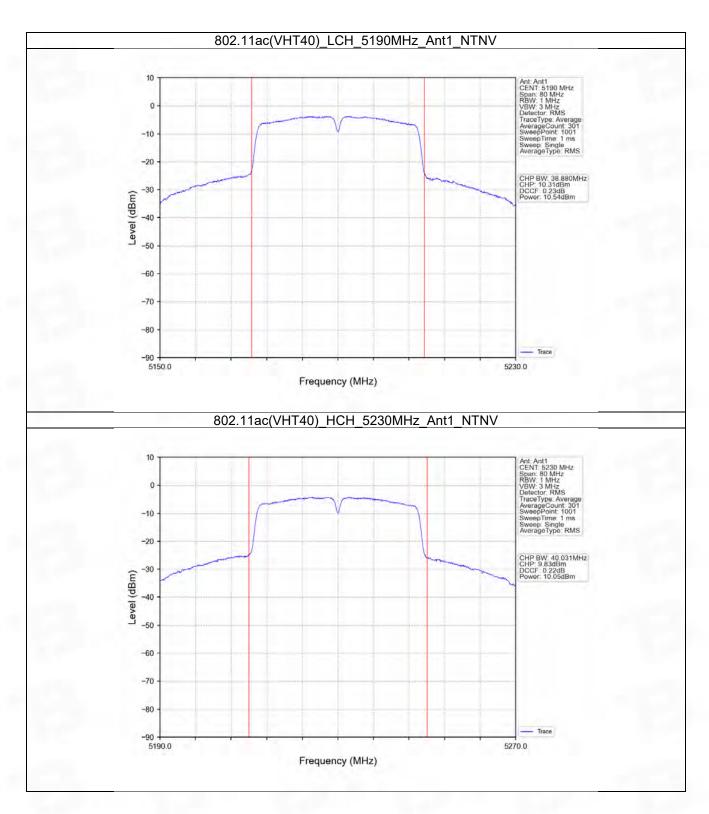


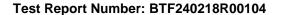




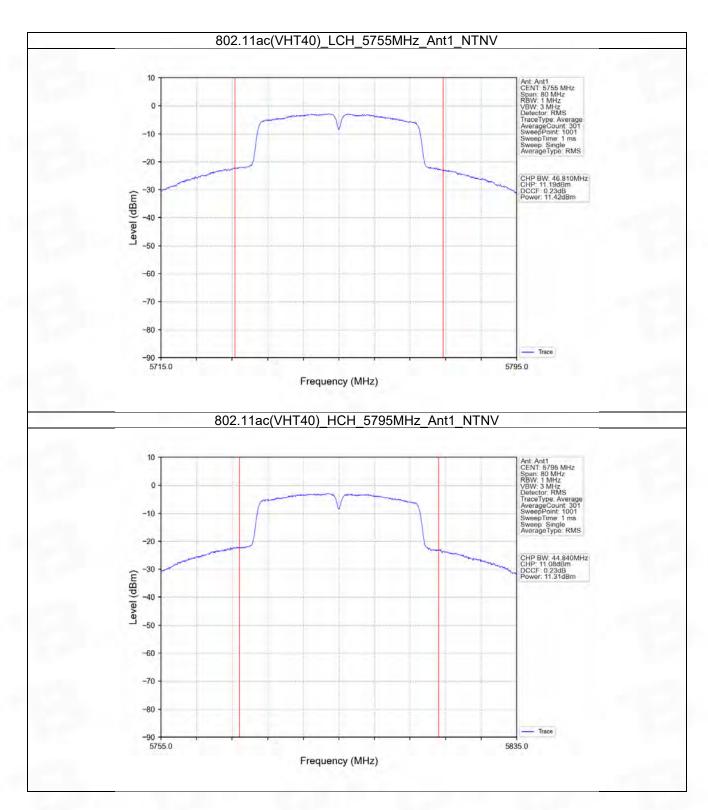


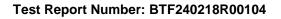












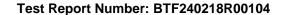


4. Maximum Power Spectral Density

4.1 PSD

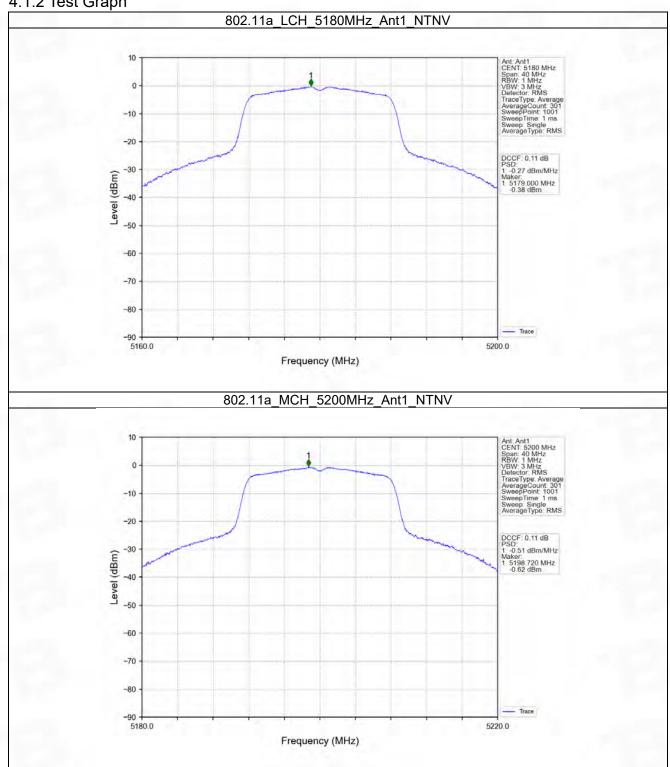
4.1.1 Test Result

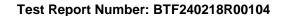
| Mode | TX | Frequency | Maximum PSD (dBm/MHz) | | Verdict |
|---------------------|------------------|-----------|-----------------------|-------|---------|
| | Type | (MHz) | ANT1 | Limit | verdict |
| 802.11a | SISO | 5180 | -0.27 | <=11 | Pass |
| | | 5200 | -0.51 | <=11 | Pass |
| | | 5240 | -0.87 | <=11 | Pass |
| 000 115 | SISO | 5180 | -0.46 | <=11 | Pass |
| 802.11n | | 5200 | -0.58 | <=11 | Pass |
| (HT20) | | 5240 | -1.05 | <=11 | Pass |
| 802.11n (HT40) | SISO | 5190 | -3.24 | <=11 | Pass |
| | | 5230 | -3.90 | <=11 | Pass |
| 802.11ac (VHT20) | SISO | 5180 | -0.59 | <=11 | Pass |
| | | 5200 | -0.72 | <=11 | Pass |
| | | 5240 | -1.23 | <=11 | Pass |
| 802.11ac (VHT40) | SISO | 5190 | -3.37 | <=11 | Pass |
| | | 5230 | -3.97 | <=11 | Pass |
| Note1: Antenna | Gain: Ant1: 1.59 | dBi; | | | |



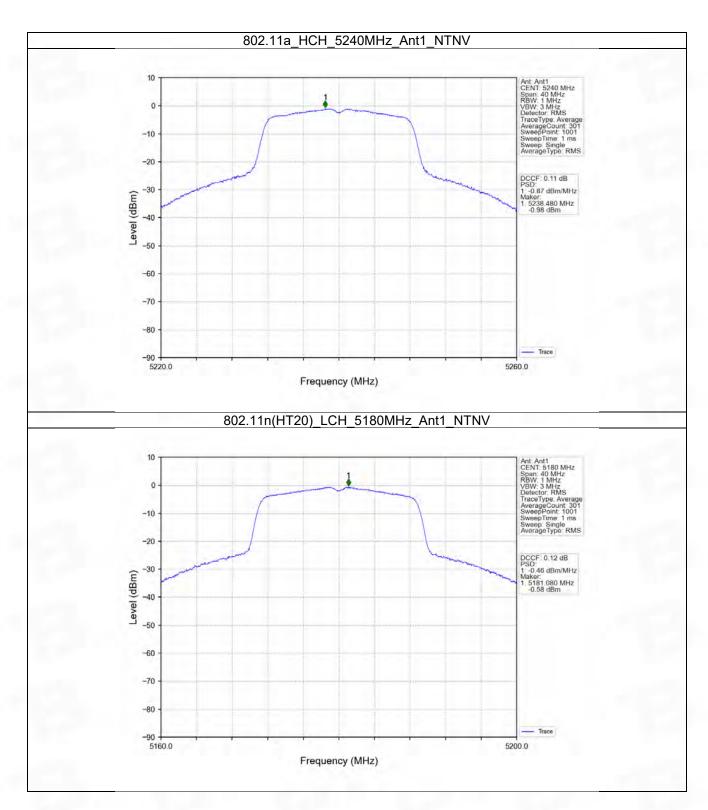


4.1.2 Test Graph



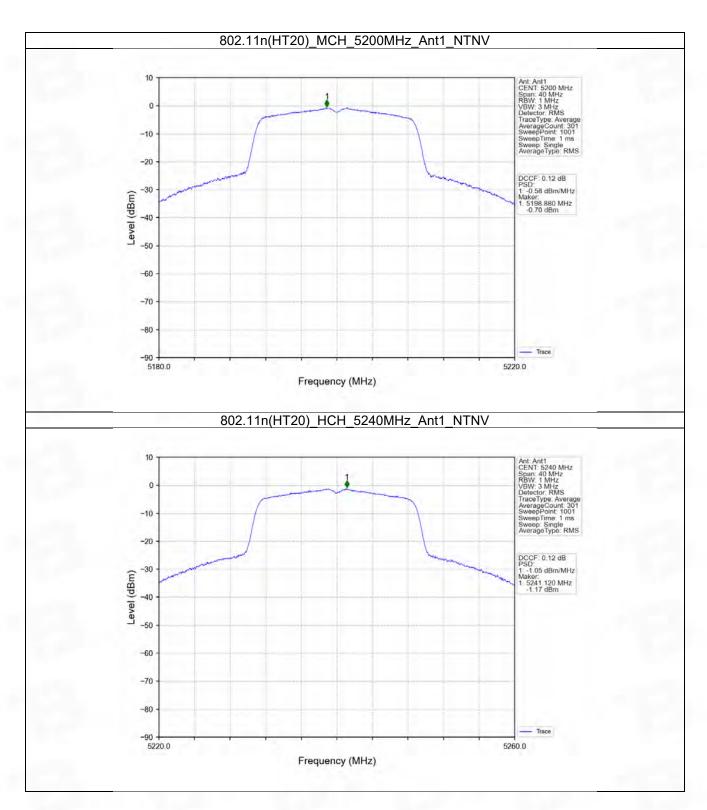


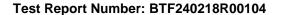




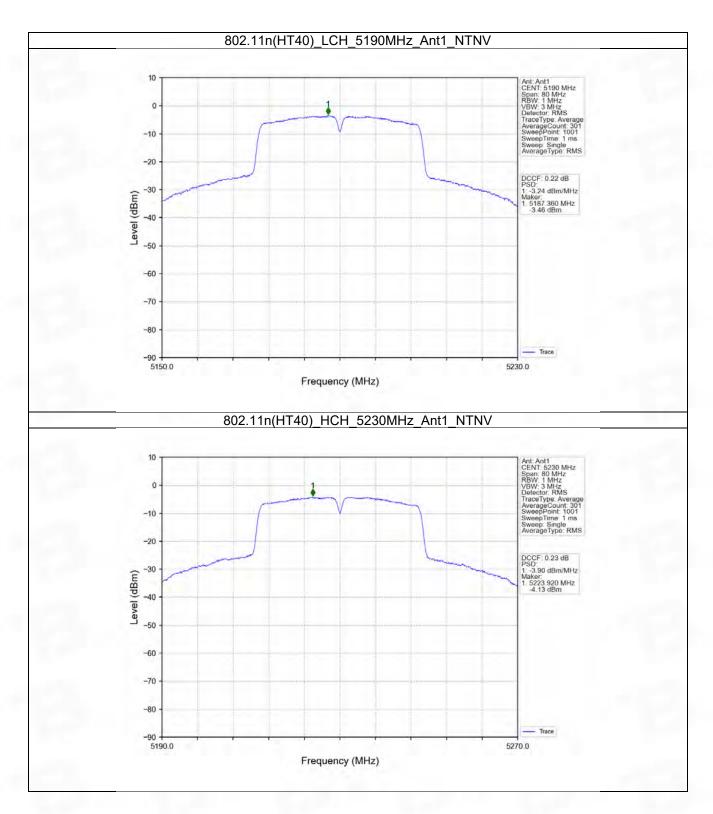






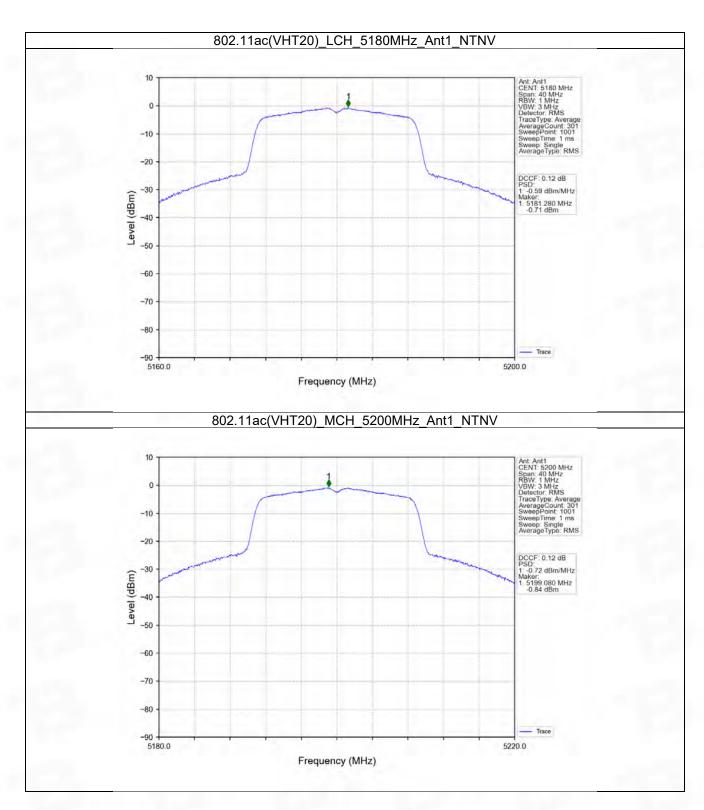


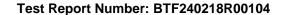




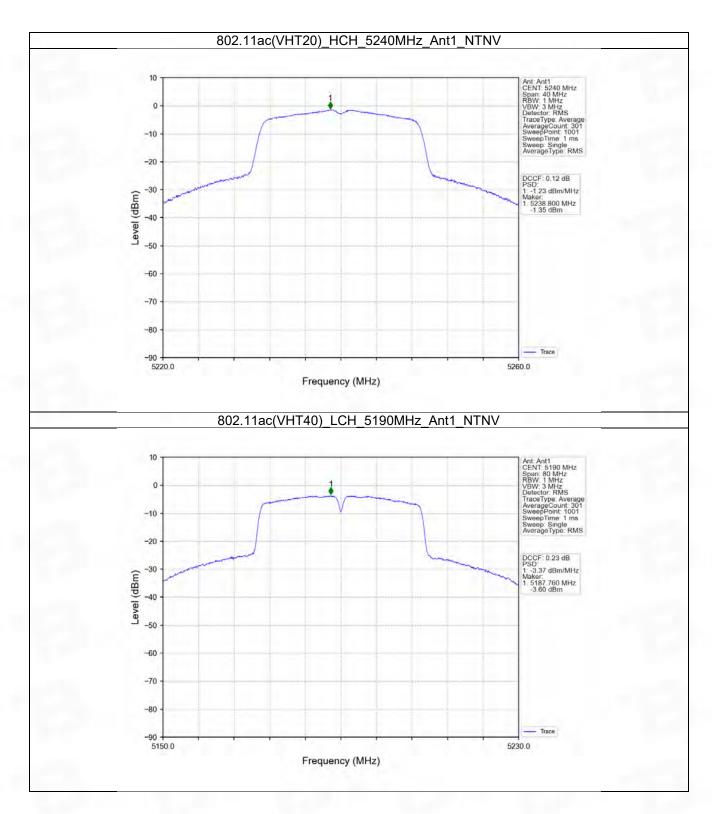


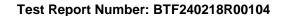




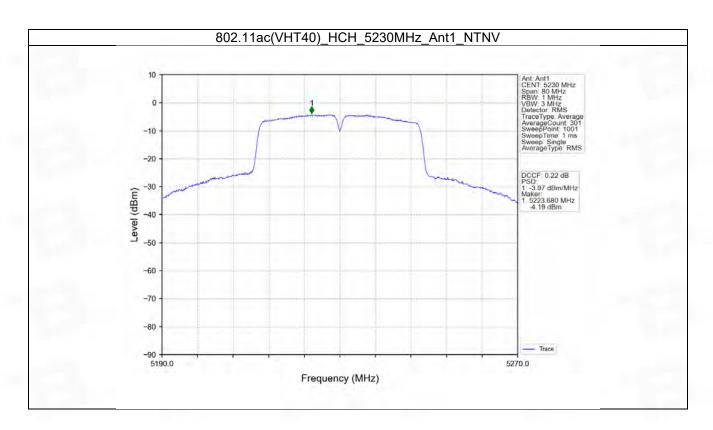


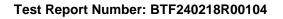










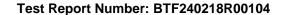




4.2 PSD-Band3

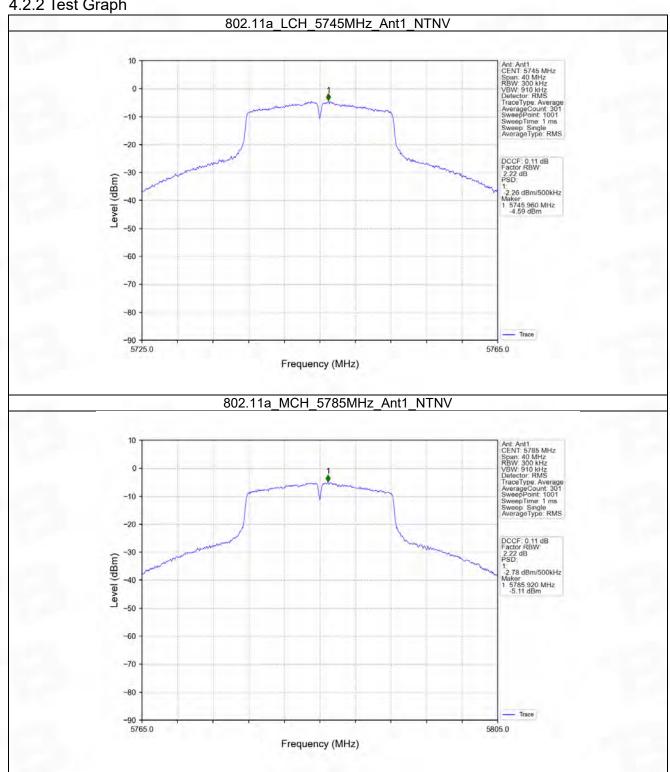
4.2.1 Test Result

| Mode | TX | Frequency | Maximum PSD | Verdict | |
|---------------------|-----------------|-----------|-------------|---------|---------|
| iviode | Туре | (MHz) | ANT1 | Limit | Verdict |
| 802.11a | | 5745 | -2.26 | <=30 | Pass |
| | SISO | 5785 | -2.78 | <=30 | Pass |
| | | 5825 | -2.89 | <=30 | Pass |
| 802.11n (HT20) | | 5745 | -2.53 | <=30 | Pass |
| | SISO | 5785 | -2.83 | <=30 | Pass |
| | | 5825 | -3.06 | <=30 | Pass |
| 802.11n (HT40) | SISO | 5755 | -5.55 | <=30 | Pass |
| | 3130 | 5795 | -5.53 | <=30 | Pass |
| 802.11ac (VHT20) | | 5745 | -2.51 | <=30 | Pass |
| | SISO | 5785 | -2.81 | <=30 | Pass |
| | | 5825 | -3.06 | <=30 | Pass |
| 802.11ac (VHT40) | SISO | 5755 | -5.30 | <=30 | Pass |
| | 3130 | 5795 | -5.45 | <=30 | Pass |
| Note1: Antenna | Gain: Ant1: 1.5 | 9dBi; | | | |



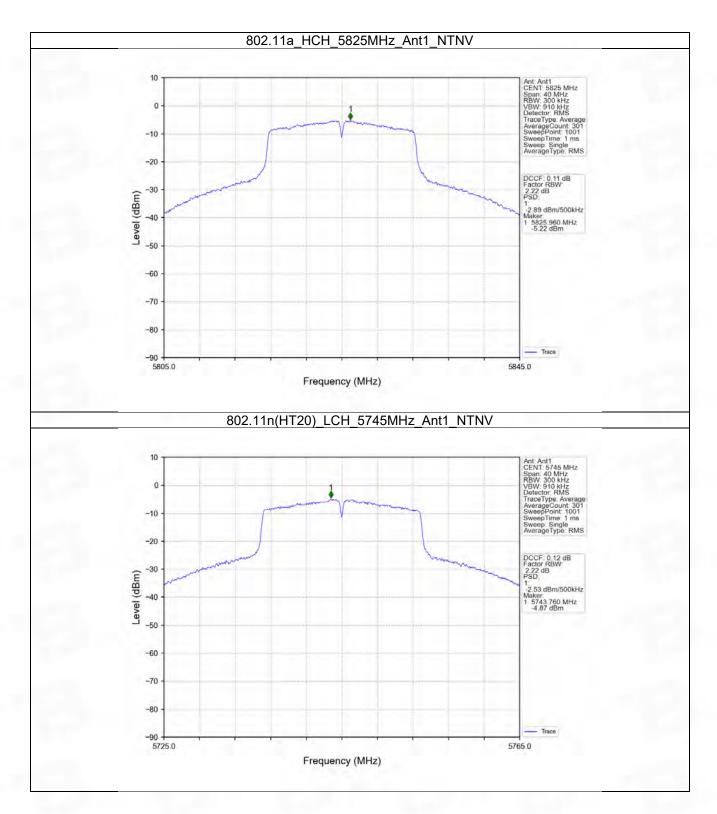


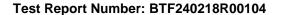
4.2.2 Test Graph



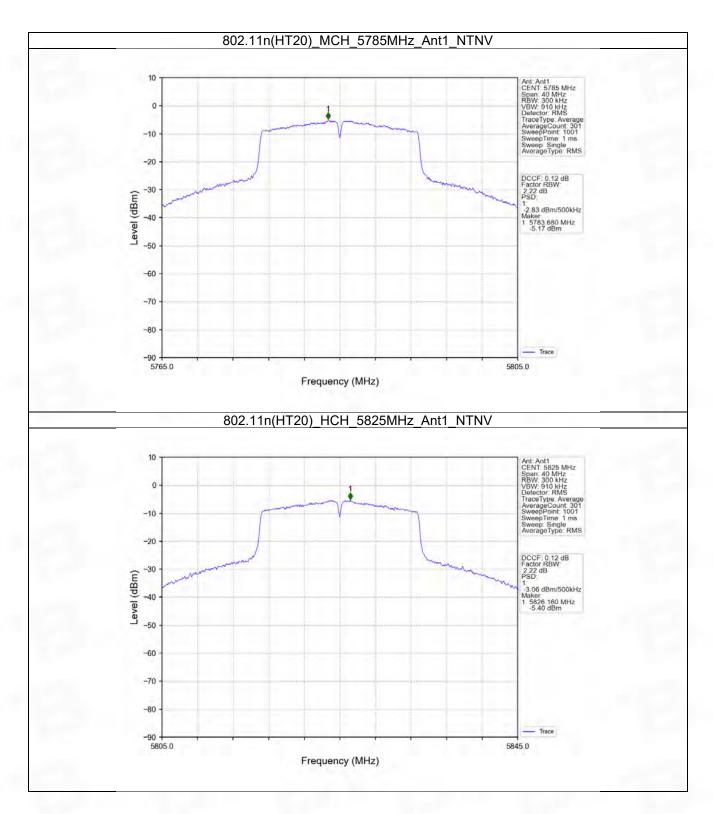






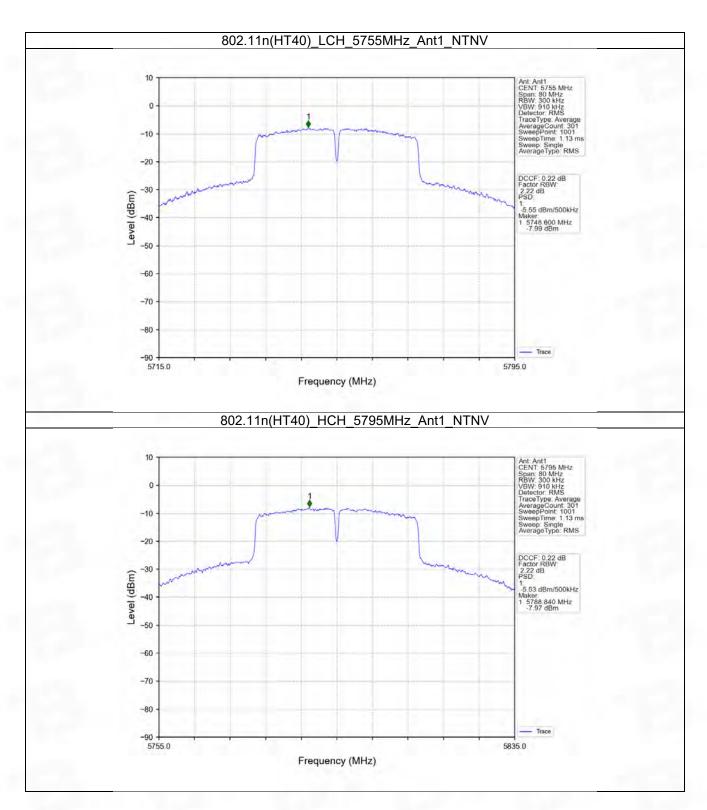


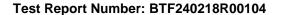




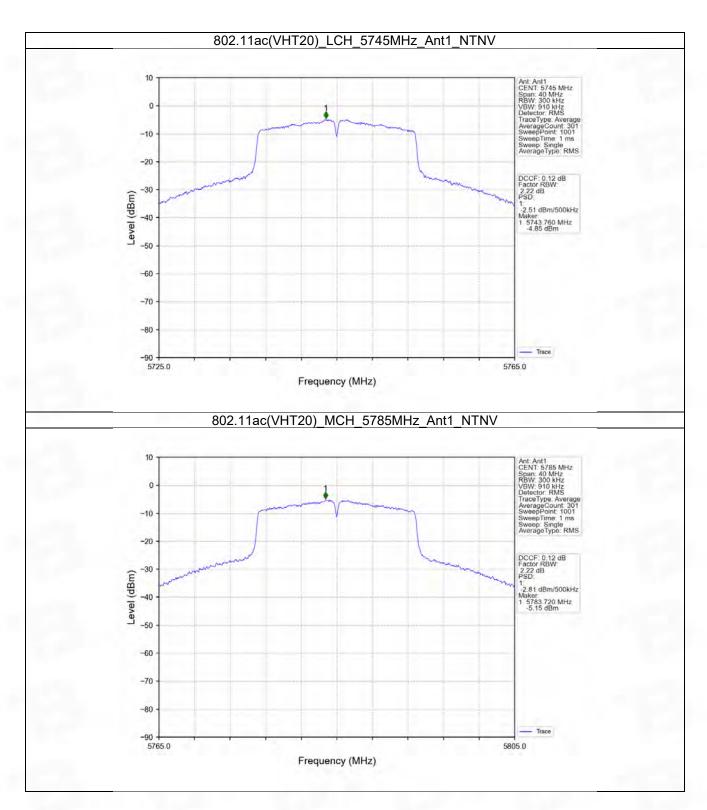


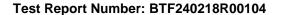




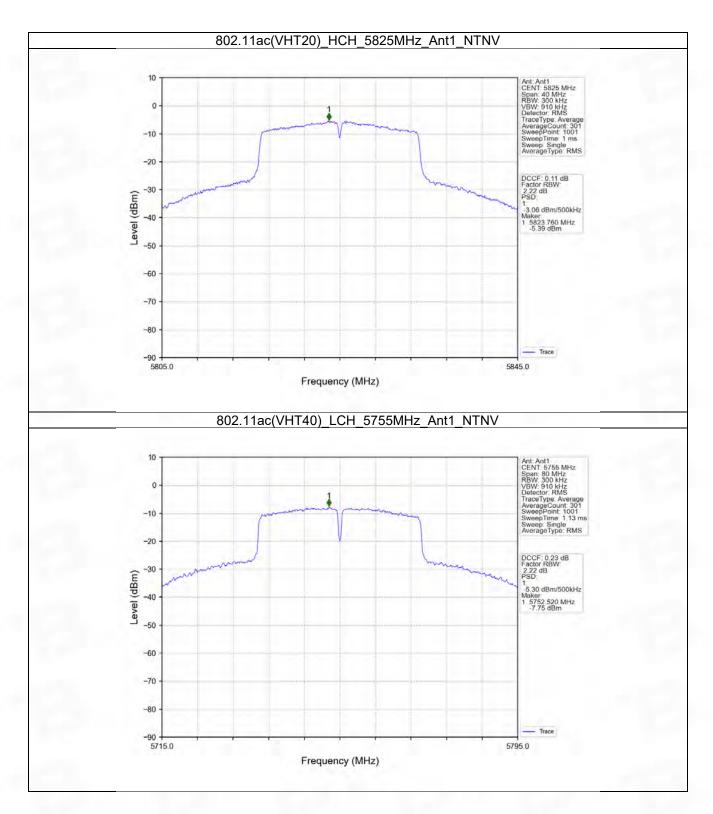


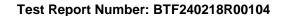




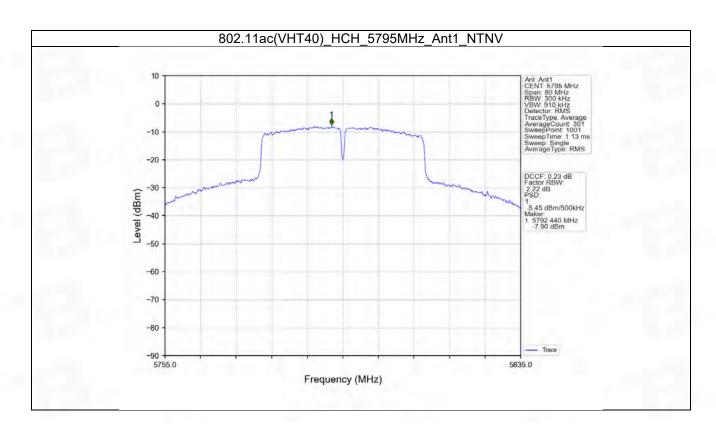


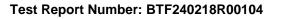












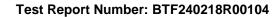


5. Frequency Stability

5.1 Ant1

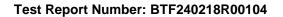
5.1.1 Test Result

| | TX | Frequency | Temperature | Ant1 Voltage | Measured Frequency | Limit | |
|--------------|------|-----------|-------------|-----------------|--------------------|--------------|---------|
| Mode | Type | (MHz) | (°C) | (VAC) | (MHz) | (MHz) | Verdict |
| | Турс | (1011 12) | (0) | 102 | 5179.964 | 5150 to 5250 | Pass |
| | | | 20 | 120 | 5179.964 | 5150 to 5250 | Pass |
| | | | 20 | 138 | 5179.964 | 5150 to 5250 | Pass |
| | | | -30 | 120 | 5179.964 | 5150 to 5250 | Pass |
| | | | -20 | 120 | 5179.965 | 5150 to 5250 | Pass |
| | | 5180 | -10 | 120 | 5179.965 | 5150 to 5250 | Pass |
| | | 0.00 | 0 | 120 | 5179.965 | 5150 to 5250 | Pass |
| | | | 10 | 120 | 5179.965 | 5150 to 5250 | Pass |
| | | | 30 | 120 | 5179.965 | 5150 to 5250 | Pass |
| | | | 40 | 120 | 5179.965 | 5150 to 5250 | Pass |
| | | | 50 | 120 | 5179.965 | 5150 to 5250 | Pass |
| | | | | 102 | 5199.965 | 5150 to 5250 | Pass |
| | | | 20 | 120 | 5199.965 | 5150 to 5250 | Pass |
| | | | | 138 | 5199.965 | 5150 to 5250 | Pass |
| | | | -30 | 120 | 5199.965 | 5150 to 5250 | Pass |
| | | 1 | -20 | 120 | 5199.965 | 5150 to 5250 | Pass |
| | | 5200 | -10 | 120 | 5199.965 | 5150 to 5250 | Pass |
| | | 0200 | 0 | 120 | 5199.965 | 5150 to 5250 | Pass |
| Carrier Wave | | | 10 | 120 | 5199.965 | 5150 to 5250 | Pass |
| | | | 30 | 120 | 5199.965 | 5150 to 5250 | Pass |
| | | | 40 | 120 | 5199.965 | 5150 to 5250 | Pass |
| | | | 50 | 120 | 5199.965 | 5150 to 5250 | Pass |
| | SISO | 5240 | 20 | 102 | 5239.965 | 5150 to 5250 | Pass |
| | | | | 120 | 5239.965 | 5150 to 5250 | Pass |
| | | | | 138 | 5239.965 | 5150 to 5250 | Pass |
| | | | -30 | 120 | 5239.965 | 5150 to 5250 | Pass |
| | | | -20 | 120 | 5239.965 | 5150 to 5250 | Pass |
| | | | -10 | 120 | 5239.965 | 5150 to 5250 | Pass |
| | | | 0 | 120 | 5239.965 | 5150 to 5250 | Pass |
| | | | 10 | 120 | 5239.965 | 5150 to 5250 | Pass |
| | | | 30 | 120 | 5239.965 | 5150 to 5250 | Pass |
| | | | 40 | 120 | 5239.965 | 5150 to 5250 | Pass |
| | | | 50 | 120 | 5239.965 | 5150 to 5250 | Pass |
| | | 5745 | | 102 | 5744.962 | 5725 to 5850 | Pass |
| | | | 20 | 120 | 5744.962 | 5725 to 5850 | Pass |
| | | | 101 (2011) | 138 | 5744.962 | 5725 to 5850 | Pass |
| | | | -30 | 120 | 5744.962 | 5725 to 5850 | Pass |
| | | | -20 | 120 | 5744.962 | 5725 to 5850 | Pass |
| | | | -10 | 120 | 5744.962 | 5725 to 5850 | Pass |
| | | | 0 | 120 | 5744.962 | 5725 to 5850 | Pass |
| | | | 10 | 120 | 5744.962 | 5725 to 5850 | Pass |
| | | | 30 | 120 | 5744.962 | 5725 to 5850 | Pass |
| | | | 40 | 120 | 5744.962 | 5725 to 5850 | Pass |
| | | | 50 | 120 | 5744.962 | 5725 to 5850 | Pass |
| | | 5785 | 20 | 102 | 5784.962 | 5725 to 5850 | Pass |





| | | | 120 | 5784.962 | 5725 to 5850 | Pass |
|--|------|-----|-----|----------|--------------|------|
| | | | 138 | 5784.962 | 5725 to 5850 | Pass |
| | | -30 | 120 | 5784.962 | 5725 to 5850 | Pass |
| | | -20 | 120 | 5784.962 | 5725 to 5850 | Pass |
| | | -10 | 120 | 5784.962 | 5725 to 5850 | Pass |
| | | 0 | 120 | 5784.962 | 5725 to 5850 | Pass |
| | | 10 | 120 | 5784.962 | 5725 to 5850 | Pass |
| | | 30 | 120 | 5784.962 | 5725 to 5850 | Pass |
| | | 40 | 120 | 5784.962 | 5725 to 5850 | Pass |
| | | 50 | 120 | 5784.962 | 5725 to 5850 | Pass |
| | | | 102 | 5824.962 | 5725 to 5850 | Pass |
| | | 20 | 120 | 5824.962 | 5725 to 5850 | Pass |
| | | | 138 | 5824.962 | 5725 to 5850 | Pass |
| | | -30 | 120 | 5824.962 | 5725 to 5850 | Pass |
| | | -20 | 120 | 5824.962 | 5725 to 5850 | Pass |
| | 5825 | -10 | 120 | 5824.962 | 5725 to 5850 | Pass |
| | | 0 | 120 | 5824.962 | 5725 to 5850 | Pass |
| | | 10 | 120 | 5824.962 | 5725 to 5850 | Pass |
| | | 30 | 120 | 5824.962 | 5725 to 5850 | Pass |
| | | 40 | 120 | 5824.962 | 5725 to 5850 | Pass |
| | | 50 | 120 | 5824.962 | 5725 to 5850 | Pass |
| | | | 102 | 5189.966 | 5150 to 5250 | Pass |
| | | 20 | 120 | 5189.966 | 5150 to 5250 | Pass |
| | | | 138 | 5189.966 | 5150 to 5250 | Pass |
| | | -30 | 120 | 5189.966 | 5150 to 5250 | Pass |
| | | -20 | 120 | 5189.966 | 5150 to 5250 | Pass |
| | 5190 | -10 | 120 | 5189.966 | 5150 to 5250 | Pass |
| | | 0 | 120 | 5189.966 | 5150 to 5250 | Pass |
| | | 10 | 120 | 5189.966 | 5150 to 5250 | Pass |
| | | 30 | 120 | 5189.966 | 5150 to 5250 | Pass |
| | | 40 | 120 | 5189.966 | 5150 to 5250 | Pass |
| | | 50 | 120 | 5189.966 | 5150 to 5250 | Pass |
| | | | 102 | 5229.966 | 5150 to 5250 | Pass |
| | | 20 | 120 | 5229.966 | 5150 to 5250 | Pass |
| | | | 138 | 5229.966 | 5150 to 5250 | Pass |
| | | -30 | 120 | 5229.966 | 5150 to 5250 | Pass |
| | | -20 | 120 | 5229.966 | 5150 to 5250 | Pass |
| | 5230 | -10 | 120 | 5229.966 | 5150 to 5250 | Pass |
| | | 0 | 120 | 5229.966 | 5150 to 5250 | Pass |
| | | 10 | 120 | 5229.966 | 5150 to 5250 | Pass |
| | | 30 | 120 | 5229.966 | 5150 to 5250 | Pass |
| | | 40 | 120 | 5229.966 | 5150 to 5250 | Pass |
| | | 50 | 120 | 5229.966 | 5150 to 5250 | Pass |
| | | | 102 | 5754.963 | 5725 to 5850 | Pass |
| | | 20 | 120 | 5754.963 | 5725 to 5850 | Pass |
| | | 22 | 138 | 5754.963 | 5725 to 5850 | Pass |
| | | -30 | 120 | 5754.963 | 5725 to 5850 | Pass |
| | -7 | -20 | 120 | 5754.963 | 5725 to 5850 | Pass |
| | 5755 | -10 | 120 | 5754.963 | 5725 to 5850 | Pass |
| | | 0 | 120 | 5754.963 | 5725 to 5850 | Pass |
| | | 10 | 120 | 5754.963 | 5725 to 5850 | Pass |
| | | 30 | 120 | 5754.963 | 5725 to 5850 | Pass |
| | | 40 | 120 | 5754.963 | 5725 to 5850 | Pass |
| | | 50 | 120 | 5754.963 | 5725 to 5850 | Pass |





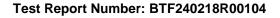
| | | | 102 | 5794.963 | 5725 to 5850 | Pass |
|-----|------|-----|-----|----------|--------------|------|
| | | 20 | 120 | 5794.963 | 5725 to 5850 | Pass |
| | 5795 | | 138 | 5794.963 | 5725 to 5850 | Pass |
| | | -30 | 120 | 5794.963 | 5725 to 5850 | Pass |
| | | -20 | 120 | 5794.963 | 5725 to 5850 | Pass |
| 8.4 | | -10 | 120 | 5794.963 | 5725 to 5850 | Pass |
| | | 0 | 120 | 5794.963 | 5725 to 5850 | Pass |
| | | 10 | 120 | 5794.963 | 5725 to 5850 | Pass |
| | | 30 | 120 | 5794.963 | 5725 to 5850 | Pass |
| | | 40 | 120 | 5794.963 | 5725 to 5850 | Pass |
| | | 50 | 120 | 5794.963 | 5725 to 5850 | Pass |

6. Form731

6.1 Form731

6.1.1 Test Result

| Lower Freq (MHz) | High Freq (MHz) | MAX Power (W) | MAX Power (dBm) |
|------------------|-----------------|---------------|-----------------|
| 5180 | 5240 | 0.0103 | 10.11 |
| 5745 | 5825 | 0.0118 | 10.73 |
| 5190 | 5230 | 0.0115 | 10.60 |
| 5755 | 5795 | 0.0139 | 11.42 |







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-- END OF REPORT --