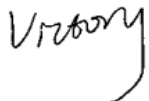


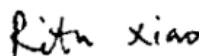
TEST REPORT

Product Name: Multimedia all in one interactive display
FCC ID: 2AV8KDT-I75XX
Trademark: N/A
Model Number: DT-I75XX, DT-I32XX, DT-I43XX, DT-I49X, DT-I55XX, DT-I65XX, DT-I85XX, DT-I86XX, DT-I98XX, DT-I100XX, DT-O32XX, DT-O43XX, DT-O49X, DT-O55XX, DT-O65XX, DT-O75XX, DT-O85XX, DT-O86XX, DT-O98XX, DT-O100XX, DT-TV32XX, DT-TV43XX, DT-TV49XX, DT-TV55XX, DT-TV65XX, DT-TV75XX, DT-TV85XX, DT-TV86XX, DT-TV98XX, DT-TV100XX, DT-C32XX, DT-C43XX, DT-C49XX, DT-C55XX, DT-C65XX, DT-C75XX, DT-C85XX, DT-C86XX, DT-C98XX, DT-C100XX
Prepared For: Shenzhen Devops Technology Co., Ltd.
Address: 802, Tower H, ChuangxinYungu, No.48 Paotai Rd, Gongming Street, Shenzhen, China
Manufacturer: Shenzhen Devops Technology Co., Ltd.
Address: 802, Tower H, ChuangxinYungu, No.48 Paotai Rd, Gongming Street, Shenzhen, China
Prepared By: Shenzhen CTB Testing Technology Co., Ltd.
Address: Floor 1&2, Building A, No. 26 of Xinghe Road, Xinqiao Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong China
Sample Received Date: May 13, 2020
Sample tested Date: May 13, 2020 to May 18, 2020
Issue Date: May 18, 2020
Report No.: CTB200521017RFX
Test Standards: 47 CFR Part 15 Subpart E
Test Results: PASS
Remark: This is WIFI-5GHz band radio test report.

Compiled by:

Victory

Reviewed by:

Rita Xiao

Approved by:

Sherwin Qian/ Director

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

TABLE OF CONTENT

| Test Report Declaration | Page |
|---|------|
| 1. VERSION | 4 |
| 2. TEST SUMMARY | 5 |
| 3. MEASUREMENT UNCERTAINTY | 6 |
| 4. PRODUCT INFORMATION AND TEST SETUP | 7 |
| 4.1 Product Information | 7 |
| 4.2 Test Setup Configuration | 8 |
| 4.3 Support Equipment | 8 |
| 4.5 Test Mode | 10 |
| 4.6 Test Environment | 10 |
| 5. TEST FACILITY AND TEST INSTRUMENT USED | 11 |
| 5.1 Test Facility | 11 |
| 5.2 Test Instrument Used | 11 |
| 6. AC POWER LINE CONDUCTED EMISSION | 13 |
| 6.1 Block Diagram Of Test Setup | 13 |
| 6.2 Limit | 13 |
| 6.3 Test procedure | 13 |
| 6.4 Test Result | 15 |
| 7. RADIATED SPURIOUS EMISSIONS | 17 |
| 7.1 Block Diagram Of Test Setup | 17 |
| 7.2 Limit | 17 |
| 7.3 Test procedure | 18 |
| 7.4 Test Result | 19 |
| 8. BAND EDGE | 27 |
| 8.1 Block Diagram Of Test Setup | 27 |
| 8.2 Limit | 27 |
| 8.3 Test procedure | 27 |
| 8.4 Test Result | 28 |
| 9. CONDUCTED PEAK OUTPUT POWER | 38 |
| 9.1 Block Diagram Of Test Setup | 38 |
| 9.2 Limit | 38 |
| 9.3 Test procedure | 39 |
| 9.4 Test Result | 40 |
| 10. EMISSION BANDWIDTH& OCCUPIED BANDWIDTH | 63 |
| 10.1 Block Diagram Of Test Setup | 63 |
| 10.2 Limits | 63 |
| 10.3 Test Procedure | 63 |
| 10.4 Test Results | 65 |
| 11. POWER SPECTRAL DENSITY | 77 |
| 11.1 Block Diagram Of Test Setup | 77 |
| 11.2 Limit | 77 |
| 11.3 Test procedure | 77 |

| | | |
|------------|---|------------|
| 11.4 | Test Result | 79 |
| 12. | FREQUENCY STABILITY | 103 |
| 12.1 | Block Diagram Of Test Setup | 103 |
| 12.2 | Limit | 103 |
| 12.3 | Test procedure | 103 |
| 12.4 | Test Result | 104 |
| 13. | OPERATION IN THE ABSENCE OF INFORMATION TO THE TRANSMIT .. | 110 |
| 13.1 | Requirement | 110 |
| 13.2 | Test Results | 110 |
| 14. | ANTENNA REQUIREMENT | 111 |
| 15. | EUT PHOTOGRAPHS | 112 |
| 16. | EUT TEST SETUP PHOTOGRAPHS | 113 |

(Note: N/A means not applicable)

1. VERSION

| Report No. | Issue Date | Description | Approved |
|-----------------|--------------|-------------|----------|
| CTB200521017RFX | May 18, 2020 | Original | Valid |

2. TEST SUMMARY

The Product has been tested according to the following specifications:

| Test Item | Test Requirement | Test method | Result |
|--|---|--------------------------|--------|
| AC Power Line Conducted Emission | 47 CFR Part 15 Subpart E Section 15.407 (b)(6) | ANSI C63.10-2013 | PASS |
| Radiated Spurious emissions | 47 CFR Part 15 Subpart E Section 15.205/15.407(b) | KDB789033 | PASS |
| Band edge | 47 CFR Part 15 Subpart E Section 15.205/15.407(b) | KDB789033 | PASS |
| Conducted Peak Output Power | 47 CFR Part 15 Subpart E Section 15.407 (a) | KDB789033 | PASS |
| Emission Bandwidth & Occupied Bandwidth | 47 CFR Part 15 Subpart E Section 15.407 (a)(e) | KDB789033 | PASS |
| Power Spectral Density | 47 CFR Part 15 Subpart E Section 15.407 (a) | KDB789033 | PASS |
| Frequency stability | 47 CFR Part 15 Subpart E Section 15.407 (g) | KDB789033 | PASS |
| Operation in the absence of information to the transmit | 47 CFR Part 15 Subpart E Section 15.407 (c) | 47 CFR Part 15 Subpart E | PASS |
| Antenna Requirement | 47 CFR Part 15 Subpart E Section 15.203 | ANSI C63.10-2013 | PASS |

Remark:

Test according to ANSI C63.4-2014 & ANSI C63.10-2013.

3. MEASUREMENT UNCERTAINTY

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

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

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

| | |
|-----------------------|---|
| Model(s): | DT-I75XX, DT-I32XX, DT-I43XX, DT-I49X, DT-I55XX, DT-I65XX, DT-I85XX, DT-I86XX, DT-I98XX, DT-I100XX, DT-O32XX, DT-O43XX, DT-O49X, DT-O55XX, DT-O65XX, DT-O75XX, DT-O85XX, DT-O86XX, DT-O98XX, DT-O100XX, DT-TV32XX, DT-TV43XX, DT-TV49XX, DT-TV55XX, DT-TV65XX, DT-TV75XX, DT-TV85XX, DT-TV86XX, DT-TV98XX, DT-TV100XX, DT-C32XX, DT-C43XX, DT-C49XX, DT-C55XX, DT-C65XX, DT-C75XX, DT-C85XX, DT-C86XX, DT-C98XX, DT-C100XX |
| Model Description: | All model's the function, software and electric circuit are the same, only with a product model named different. Test sample model: DT-I75XX |
| Wi-Fi Specification: | IEEE 802.11a/b/g/n/ac |
| Hardware Version: | V1.0 |
| Software Version: | V1.0 |
| Operation Frequency: | IEEE 802.11a/n/ac(20M): 5150MHz ~5250MHz/ 4 channel IEEE 802.11n/ac(40M): 5150MHz ~5250MHz/ 2 channel IEEE 802.11ac(80M): 5150MHz ~5250MHz/ 1 channel IEEE 802.11a/n/ac(20M): 5250MHz ~5350 MHz/ 4 channel IEEE802.11n/ac(40M): 5250MHz ~5350 MHz/ 2 channel IEEE802.11ac(80M): 5250MHz ~5350 MHz/ 1 channel IEEE 802.11a/n/ac(20M): 5470MHz ~5725 MHz/ 11 channel IEEE802.11n/ac(40M): 5470MHz ~5725 MHz/ 5 channel IEEE802.11ac(80M): 5470MHz ~5725 MHz/ 3 channel IEEE 802.11a/n/ac(20M): 5725MHz ~5850MHz/ 5 channel IEEE 802.11n/ac(40M): 5725MHz ~5850MHz/ 2 channel IEEE 802.11ac(80M): 5725MHz ~5850MHz/ 1 channel |
| Max. RF output power: | WiFi (5G): 14.801dBm |
| Type of Modulation: | WiFi: DSSS, OFDM |
| Antenna installation: | WiFi(5G): External antenna |
| Antenna Gain: | WiFi (5 G) : 5dBi |
| Ratings: | AC 100-240V |
| Adapter: | AC 100-240V |

4.2 Test Setup Configuration

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

4.3 Support Equipment

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Note |
|------|------------|-----------|----------------|---------------------------|------|
| 1 | Laptop | DELL | Inspiron5 570 | JR4G1A00DPC | AE |
| 2 | AC Adaptor | DELL | HA45NM140 | CN-00285K-CH 200-88V-OEYC | AE |

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

| For 802.11a/n/ac(20M) Operation in the 5150MHz ~5250 MHz band | | | |
|--|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency |
| 36 | 5180MHz | 44 | 5220MHz |
| 40 | 5200MHz | 48 | 5240MHz |
| For 802.11a/n/ac(20M) Operation in the 5250MHz ~5350 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 52 | 5260MHz | 60 | 5300MHz |
| 56 | 5280MHz | 64 | 5320MHz |
| For 802.11a/n/ac(20M) Operation in the 5470MHz ~5725 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 100 | 5500MHz | 124 | 5620 MHz |
| 104 | 5520MHz | 128 | 5640 MHz |
| 108 | 5540MHz | 132 | 5660 MHz |
| 112 | 5560MHz | 136 | 5680MHz |
| 116 | 5580MHz | 140 | 5700MHz |
| 120 | 5600 MHz | | |
| For 802.11a/n/ac(20M) Operation in the 5725MHz ~5850 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 149 | 5745MHz | 161 | 5805MHz |
| 153 | 5765MHz | 165 | 5825MHz |
| 157 | 5785MHz | NA | NA |

| For 802.11n/ac(40M) Operation in the 5150MHz ~5250 MHz band | | | |
|---|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency |
| 38 | 5190MHz | 46 | 5230MHz |
| For 802.11n/ac(40M) Operation in the 5250MHz ~5350 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 54 | 5270MHz | 62 | 5310MHz |
| For 802.11n/ac(40M) Operation in the 5470MHz ~5725 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 102 | 5510MHz | 126 | 5630MHz |
| 110 | 5550MHz | 134 | 5670MHz |
| 118 | 5590MHz | | |
| For 802.11n/ac(40M) Operation in the 5725MHz ~5850 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 151 | 5755MHz | 159 | 5795MHz |

| For 802.11ac(80M) Operation in the 5150MHz ~5250 MHz band | | | |
|---|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency |
| 42 | 5210MHz | NA | NA |
| For 802.11ac(80M) Operation in the 5250MHz ~5350 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 58 | 5290MHz | NA | NA |
| For 802.11ac(80M) Operation in the 5470MHz ~5725 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 106 | 5530MHz | 138 | 5690MHz |
| 122 | 5610 MHz | | |
| For 802.11ac(80M) Operation in the 5725MHz ~5850 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 155 | 5775MHz | NA | NA |

4.5 Test Mode

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

| Test Mode | Tx/Rx | RF Channel | | |
|-------------------|-------------------|-------------|-------------|-------------|
| | | Low(L) | Middle(M) | High(H) |
| 802.11a/n/ac(20M) | 5150MHz ~5250 MHz | Channel 36 | Channel 40 | Channel 48 |
| | | 5180MHz | 5200MHz | 5240MHz |
| 802.11n/ac(40M) | 5150MHz ~5250 MHz | Channel 38 | N/A | Channel 46 |
| | | 5190MHz | N/A | 5230MHz |
| 802.11ac(80M) | 5150MHz ~5250 MHz | N/A | Channel 42 | N/A |
| | | N/A | 5210MHz | N/A |
| 802.11a/n/ac(20M) | 5250MHz ~5350 MHz | Channel 52 | Channel 56 | Channel 64 |
| | | 5260MHz | 5280MHz | 5320MHz |
| 802.11n/ac(40M) | 5250MHz ~5350 MHz | Channel54 | N/A | Channel62 |
| | | 5270MHz | N/A | 5310MHz |
| 802.11ac(80M) | 5250MHz ~5350 MHz | N/A | Channel 58 | N/A |
| | | N/A | 5290MHz | N/A |
| 802.11a/n/ac(20M) | 5470MHz ~5725 MHz | Channel 100 | Channel116 | Channel140 |
| | | 5500MHz | 5580MHz | 5700MHz |
| 802.11n/ac(40M) | 5470MHz ~5725 MHz | Channel 102 | Channel118 | Channel 134 |
| | | 5510MHz | 5590MHz | 5670MHz |
| 802.11ac(80M) | 5470MHz ~5725 MHz | Channel 106 | N/A | Channel 138 |
| | | 5530MHz | N/A | 5690MHz |
| 802.11a/n/ac(20M) | 5725MHz ~5850 MHz | Channel 149 | Channel 157 | Channel 165 |
| | | 5745MHz | 5785MHz | 5825MHz |
| 802.11n/ac(40M) | 5725MHz ~5850 MHz | Channel 151 | N/A | Channel 159 |
| | | 5755MHz | N/A | 5795MHz |
| 802.11ac(80M) | 5725MHz ~5850 MHz | N/A | Channel 155 | N/A |
| | | N/A | 5775MHz | N/A |

4.6 Test Environment

| | |
|----------------------------|----------|
| Humidity(%): | 55 |
| Atmospheric Pressure(kPa): | 101.1 |
| Normal Voltage(AC):NV | 100-240V |
| Normal Temperature(°C):NT | 25 |
| Low Temperature(°C):LT | 0 |
| High Temperature(°C):HT | 40 |

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

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

5.2 Test Instrument Used

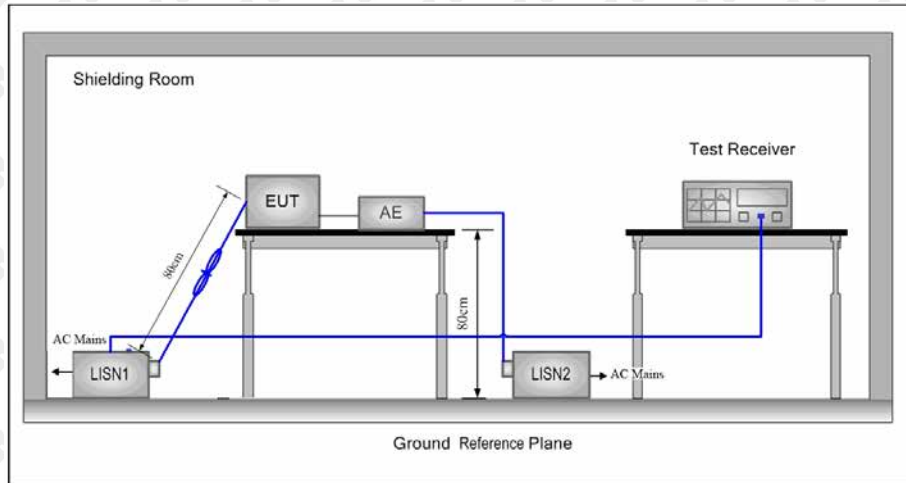
| Item | Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|------|---|--------------|---------------------------|--------------|------------------|------------------|
| 1 | Spectrum Analyzer | Agilent | N9020A | MY52090073 | Oct. 17, 2019 | Oct. 16, 2020 |
| 2 | Power Sensor | Agilent | U2021XA | MY56120032 | Nov. 02, 2019 | Nov. 01, 2020 |
| 3 | Power Sensor | Agilent | U2021XA | MY56120034 | Nov. 02, 2019 | Nov. 01, 2020 |
| 4 | Communication test set | R&S | CMW500 | 118735 | Nov. 02, 2019 | Nov. 01, 2020 |
| 5 | Spectrum Analyzer | R&S | FSP40 | 100550 | Nov. 02, 2019 | Nov. 01, 2020 |
| 6 | Signal Generator | Agilent | N5181A | MY49060920 | Nov. 03, 2019 | Nov. 02, 2020 |
| 7 | Signal Generator | Agilent | N5182A | MY47420195 | Nov. 03, 2019 | Nov. 02, 2020 |
| 8 | Communication test set | R&S | CMU200 | 119978 | Nov. 02, 2019 | Nov. 01, 2020 |
| 9 | band rejection filter | Shenxiang | MSF2400-24 83.5MS-1154 | 20181015001 | Nov. 02, 2019 | Nov. 01, 2020 |
| 10 | band rejection filter | Shenxiang | MSF5150-58 50MS-1155 | 20181015001 | Nov. 02, 2019 | Nov. 01, 2020 |
| 11 | band rejection filter | Xingbo | XBLBQ-DZA 120 | 190821-1-1 | Nov. 02, 2019 | Nov. 01, 2020 |
| 12 | BT&WI-FI Automatic test software | Microwave | MTS8310 | Ver. 2.0.0.0 | \ | \ |
| 13 | Rohde & Schwarz SFU Broadcast Test System | R&S | SFU | 101017 | Nov. 02, 2019 | Nov. 01, 2020 |
| 14 | Temperature humidity chamber | Hongjing | TH-80CH | DG-15174 | Nov. 02, 2019 | Nov. 01, 2020 |
| 15 | 234G Automatic test software | Microwave | MTS8200 | Ver. 2.0.0.0 | \ | \ |
| 16 | 966 chamber | C.R.T. | 966 Room | 966 | Nov. 10, 2019 | Nov. 09, 2020 |
| 17 | Receiver | R&S | ESPI | 100362 | Nov. 02, 2019 | Nov. 01, 2020 |

| | | | | | | |
|----|--------------------------|-------------|-----------|------------|---------------|---------------|
| 18 | Amplifier | HP | 8447E | 2945A02747 | Nov. 03, 2019 | Nov. 02, 2020 |
| 19 | Amplifier | Agilent | 8449B | 3008A01838 | Nov. 03, 2019 | Nov. 02, 2020 |
| 20 | TRILOG Broadband Antenna | Schwarzbeck | VULB 9163 | 869 | Nov. 02, 2019 | Nov. 01, 2020 |
| 21 | Horn Antenna | Schwarzbeck | BBHA9120D | 1911 | Nov. 02, 2019 | Nov. 01, 2020 |
| 22 | Software | Fala | EZ-EMC | FA-03A2 RE | \ | \ |
| 23 | 3-Loop Antenna | Daze | ZN30401 | 17014 | Nov. 02, 2019 | Nov. 01, 2020 |
| 24 | loop antenna | ZHINAN | ZN30900A | / | Nov. 02, 2019 | Nov. 01, 2020 |
| 25 | Horn antenna | A/H/System | SAS-574 | 588 | Nov. 02, 2019 | Nov. 01, 2020 |
| 26 | Amplifier | AEROFLEX | / | S/N/ 097 | Nov. 02, 2019 | Nov. 01, 2020 |

| Conducted emissions Test | | | | | | |
|--------------------------|-------------------|----------------|----------|---------------|---------------|---------------|
| 27 | Equipment | Manufacturer | Model# | Serial# | Last Cal. | Next Cal. |
| 28 | AMN | ROHDE&SC HWARZ | ESH3-Z5 | 831551852 | Nov. 02, 2019 | Nov. 01, 2020 |
| 29 | Pulse limiter | ROHDE&SC HWARZ | ESH3Z2 | 357881052 | Nov. 02, 2019 | Nov. 01, 2020 |
| 30 | EMI TEST RECEIVER | ROHDE&SC HWARZ | ESCS30 | 834115/006 | Nov. 02, 2019 | Nov. 01, 2020 |
| 31 | Coaxial cable | ZDECL | Z302S | 18091904 | Nov. 02, 2019 | Nov. 01, 2020 |
| 32 | ISN | TESEQ | NTFM8158 | NTFM8158# 183 | Nov. 02, 2019 | Nov. 01, 2020 |
| 33 | EMI TEST RECEIVER | ROHDE&SC HWARZ | ESCI | 10428 | Nov. 02, 2019 | Nov. 01, 2020 |
| 34 | Software | Fala | EZ-EMC | EMC-CON 3A1.1 | \ | \ |

6. AC POWER LINE CONDUCTED EMISSION

6.1 Block Diagram Of Test Setup



6.2 Limit

| Frequency (MHz) | Maximum RF Line Voltage (dB μ V) | | | |
|-----------------|--------------------------------------|------|---------|--------|
| | CLASS A | | CLASS B | |
| | Q.P. | Ave. | Q.P. | Ave. |
| 0.15 - 0.50 | 79 | 66 | 66-56* | 56-46* |
| 0.50 - 5.00 | 73 | 60 | 56 | 46 |
| 5.00 - 30.0 | 73 | 60 | 60 | 50 |

* Decreasing linearly with the logarithm of the frequency

6.3 Test procedure

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0,4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0,8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was

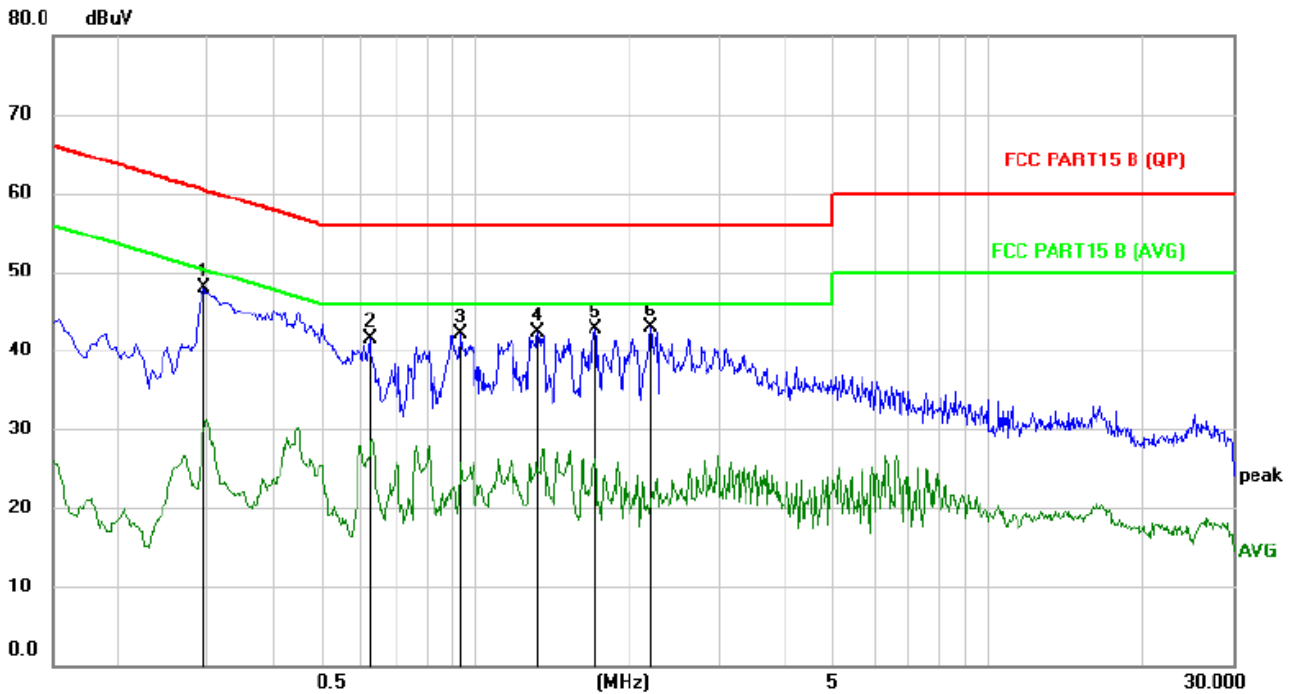
between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0,8 m from the LISN 2.

- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

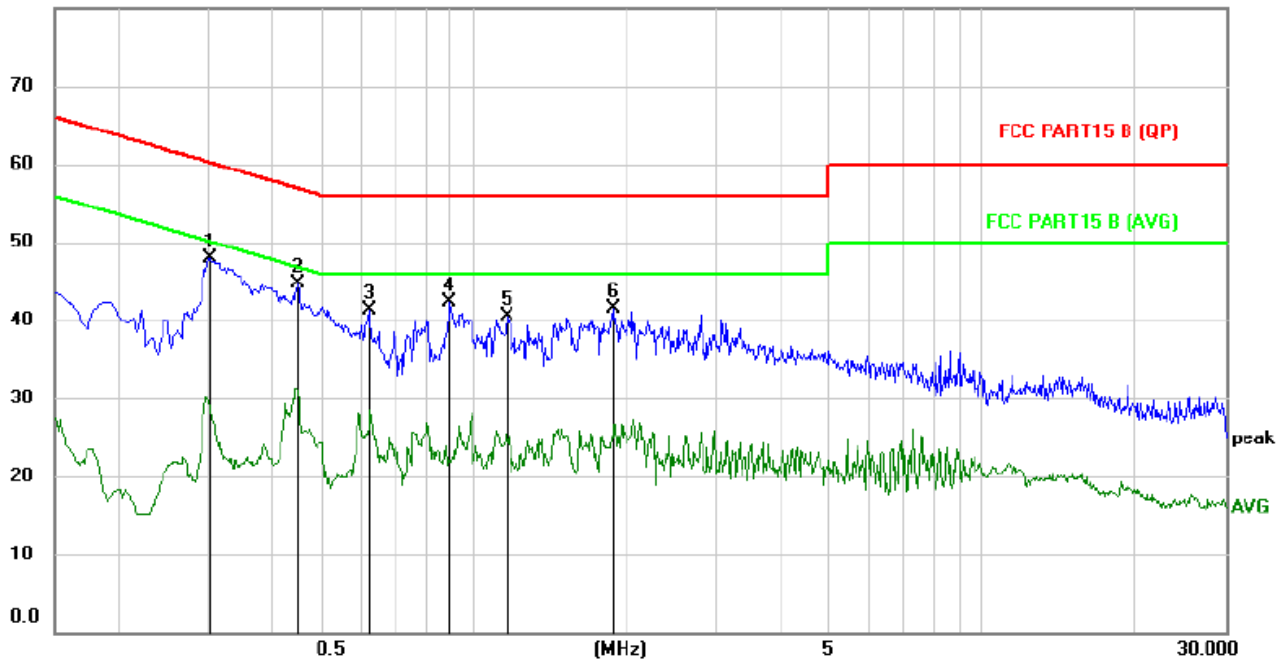
6.4 Test Result

Remark: This Report only show the test plots of the ANT1 worst case.

Test Specification: Line



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1 | * | 0.2938 | 37.71 | 10.17 | 47.88 | 60.42 | -12.54 | peak | |
| 2 | | 0.6219 | 31.45 | 10.07 | 41.52 | 56.00 | -14.48 | peak | |
| 3 | | 0.9300 | 31.85 | 10.20 | 42.05 | 56.00 | -13.95 | peak | |
| 4 | | 1.3180 | 32.15 | 10.23 | 42.38 | 56.00 | -13.62 | peak | |
| 5 | | 1.7137 | 32.57 | 10.23 | 42.80 | 56.00 | -13.20 | peak | |
| 6 | | 2.1979 | 32.58 | 10.24 | 42.82 | 56.00 | -13.18 | peak | |

Test Specification: Neutral
 80.0 dBuV


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1 | | 0.3019 | 37.65 | 10.16 | 47.81 | 60.19 | -12.38 | peak | |
| 2 | * | 0.4500 | 34.39 | 10.22 | 44.61 | 56.88 | -12.27 | peak | |
| 3 | | 0.6219 | 30.99 | 10.23 | 41.22 | 56.00 | -14.78 | peak | |
| 4 | | 0.8980 | 32.11 | 10.17 | 42.28 | 56.00 | -13.72 | peak | |
| 5 | | 1.1615 | 30.30 | 10.15 | 40.45 | 56.00 | -15.55 | peak | |
| 6 | | 1.8700 | 31.39 | 10.13 | 41.52 | 56.00 | -14.48 | peak | |

Remark:

- Factor = Cable loss + LISN factor, Margin = Limit – Level
- All modes were tested at AC 120V and 240V, only the worst result of AC 120V 60Hz was reported.
- All the test modes completed for test. Only the worst result of was reported.

7. RADIATED SPURIOUS EMISSIONS

7.1 Block Diagram Of Test Setup

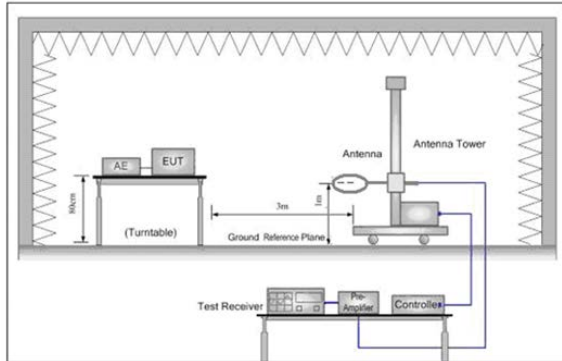


Figure 1. Below 30MHz

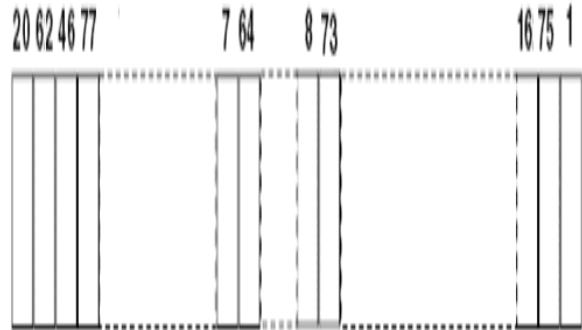


Figure 2. 30MHz to 1GHz

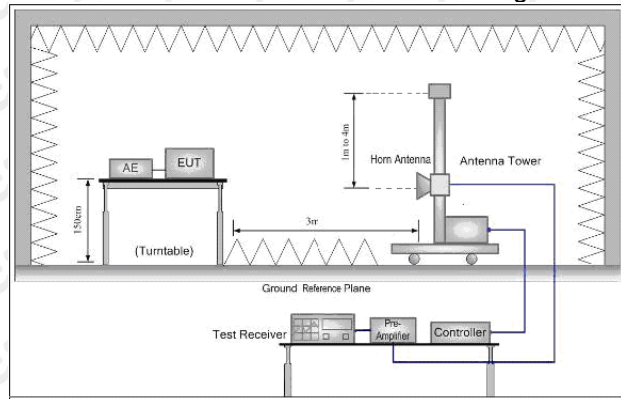


Figure 3. Above 1GHz

7.2 Limit

Spurious Emissions:

| Frequency | Field strength (dB μ V/m) | Remark | Measurement distance (m) |
|-------------------|-------------------------------|------------|--------------------------|
| 0.009MHz-0.490MHz | $20\log 2400/F$ (kHz) + 80 | Quasi-peak | 3 |
| 0.490MHz-1.705MHz | $20\log 24000/F$ (kHz) + 40 | Quasi-peak | 3 |
| 1.705MHz-30MHz | $20\log 30$ + 40 | Quasi-peak | 3 |
| 30MHz-88MHz | 40.0 | Quasi-peak | 3 |
| 88MHz-216MHz | 43.5 | Quasi-peak | 3 |
| 216MHz-960MHz | 46.0 | Quasi-peak | 3 |
| 960MHz-1GHz | 54.0 | Quasi-peak | 3 |
| Above 1GHz | 54.0 | Average | 3 |

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

If radiated measurements are performed, field strength is then converted to EIRP as follows:

(i) $EIRP = ((E \cdot d)^2) / 30$

where:

- E is the field strength in V/m;
- d is the measurement distance in meters;
- EIRP is the equivalent isotropically radiated power in watts.

(ii) Working in dB units, the above equation is equivalent to:

$$EIRP[dBm] = E[dB\mu V/m] + 20 \log(d[meters]) - 104.77$$

(iii) Or, if d is 3 meters:

$$EIRP[dBm] = E[dB\mu V/m] - 95.2$$

7.3 Test procedure

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-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 rota table 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, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel
- j. Repeat above procedures until all frequencies measured was complete.

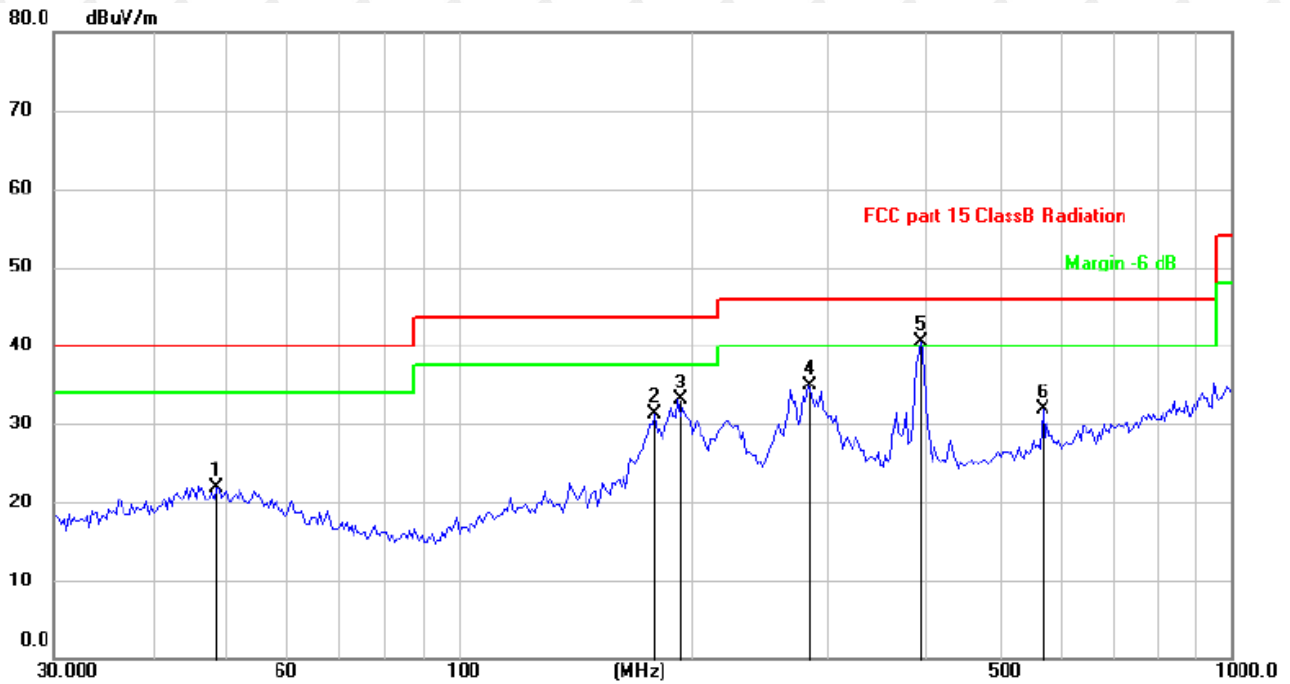
Receiver set:

| Frequency | Detector | RBW | VBW | Remark |
|-------------------|------------|---------|--------|------------|
| 0.009MHz-0.090MHz | Peak | 10kHz | 30KHz | Peak |
| 0.009MHz-0.090MHz | Average | 10kHz | 30KHz | Average |
| 0.090MHz-0.110MHz | Quasi-peak | 10kHz | 30KHz | Quasi-peak |
| 0.110MHz-0.490MHz | Peak | 10kHz | 30KHz | Peak |
| 0.110MHz-0.490MHz | Average | 10kHz | 30KHz | Average |
| 0.490MHz -30MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak |
| 30MHz-1GHz | Quasi-peak | 120 kHz | 300KHz | Quasi-peak |
| Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | Peak | 1MHz | 10Hz | Average |

7.4 Test Result

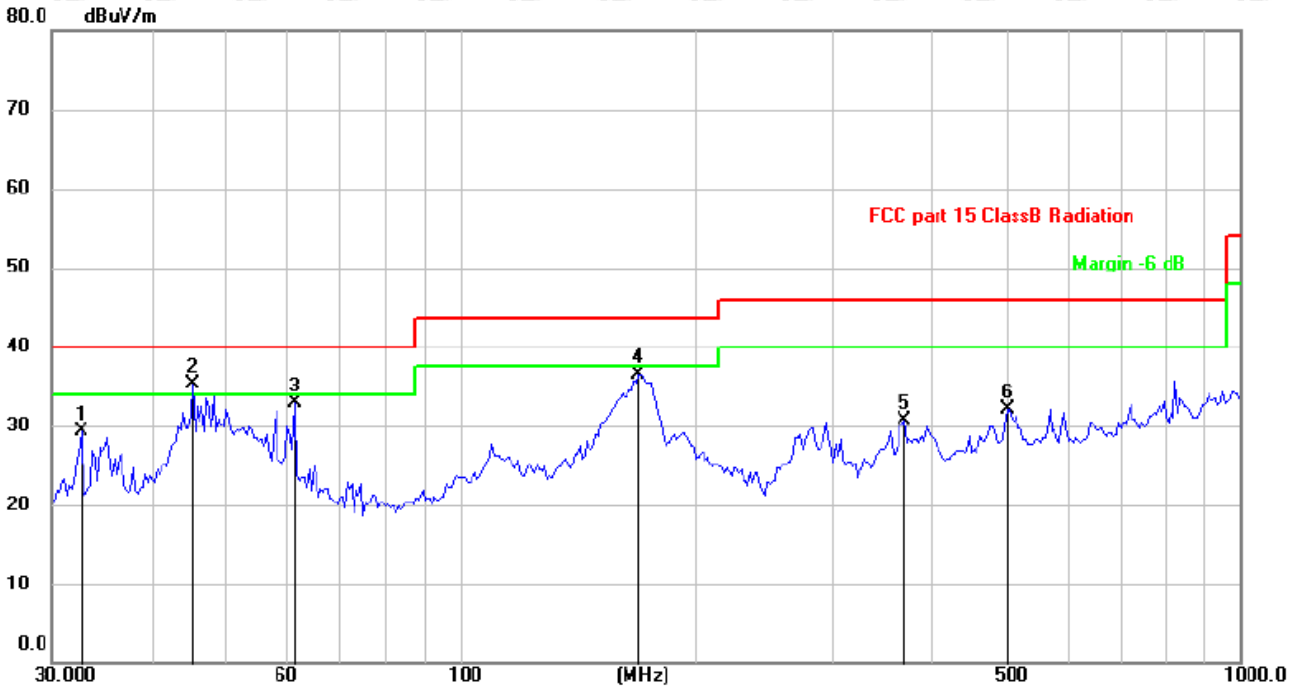
Remark: This Report only show the test plots of the ANT1 worst case.

30MHz-1GHz Test Results:
Antenna polarity: H



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Margin | Antenna Height | Table Degree |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------------|--------------|
| | | MHz | dBuV/m | dB | dBuV/m | dB/m | dB | cm | degree |
| 1 | | 48.6719 | 27.85 | -6.03 | 21.82 | 40.00 | -18.18 | peak | |
| 2 | | 179.3863 | 39.53 | -8.30 | 31.23 | 43.50 | -12.27 | peak | |
| 3 | | 192.4186 | 42.06 | -8.99 | 33.07 | 43.50 | -10.43 | peak | |
| 4 | | 282.9852 | 40.38 | -5.41 | 34.97 | 46.00 | -11.03 | peak | |
| 5 | * | 396.2415 | 42.69 | -2.24 | 40.45 | 46.00 | -5.55 | peak | |
| 6 | | 570.6100 | 30.51 | 1.46 | 31.97 | 46.00 | -14.03 | peak | |

Antenna polarity: V



| No. | Mk. | Freq. MHz | Reading Level dBuV/m | Correct Factor dB | Measure- ment dBuV/m | Limit dB/m | Margin dB | Detector | Antenna Height cm | Table Degree degree | Comment |
|-----|-----|--------------|----------------------------|-------------------------|----------------------------|---------------|--------------|----------|-------------------------|---------------------------|---------|
| 1 | | 32.6340 | 36.50 | -7.14 | 29.36 | 40.00 | -10.64 | peak | | | |
| 2 | * | 45.3754 | 41.14 | -5.81 | 35.33 | 40.00 | -4.67 | peak | | | |
| 3 | | 61.3463 | 39.83 | -7.02 | 32.81 | 40.00 | -7.19 | peak | | | |
| 4 | | 169.5990 | 43.80 | -7.26 | 36.54 | 43.50 | -6.96 | peak | | | |
| 5 | | 372.0045 | 33.92 | -3.21 | 30.71 | 46.00 | -15.29 | peak | | | |
| 6 | | 502.9395 | 32.02 | 0.17 | 32.19 | 46.00 | -13.81 | peak | | | |

Radiated Spurious Emission (Above 1GHz):
 Modulation : 802.11(a) (the worst data)

| Freq (MHz) | Rd_level (dBuV/m) | Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over (dB) | detector | Height | Degree | Antenna polarization |
|-----------------|-------------------|-------------|----------------|----------------|-----------|----------|--------|--------|----------------------|
| Channel:5180MHz | | | | | | | | | |
| 10360.0 | 60.52 | -7.43 | 53.09 | 74 | -20.91 | PK | 6 | 1.4 | H |
| 10360.0 | 50.05 | -7.43 | 42.62 | 54 | -11.38 | AV | 245 | 1.5 | H |
| 10360.0 | 61.94 | -2.42 | 59.52 | 74 | -14.48 | PK | 251 | 1.7 | V |
| 10360.0 | 49.01 | -2.42 | 46.59 | 54 | -7.41 | AV | 39 | 1.3 | V |
| Channel:5240MHz | | | | | | | | | |
| 10480.0 | 61.74 | -7.43 | 54.31 | 74 | -19.69 | PK | 308 | 1.4 | H |
| 10480.0 | 49.05 | -7.43 | 41.62 | 54 | -12.38 | AV | 121 | 1.7 | H |
| 10480.0 | 61.97 | -2.42 | 59.55 | 74 | -14.45 | PK | 205 | 1.5 | V |
| 10480.0 | 48.49 | -2.42 | 46.07 | 54 | -7.93 | AV | 235 | 1.4 | V |
| Channel:5260MHz | | | | | | | | | |
| 10520.0 | 62.59 | -7.43 | 55.16 | 74 | -18.84 | PK | 308 | 1.4 | H |
| 10520.0 | 49.24 | -7.43 | 41.81 | 54 | -12.19 | AV | 121 | 1.7 | H |
| 10520.0 | 58.61 | -2.42 | 56.19 | 74 | -17.81 | PK | 205 | 1.5 | V |
| 10520.0 | 48.71 | -2.42 | 46.29 | 54 | -7.71 | AV | 235 | 1.4 | V |
| Channel:5320MHz | | | | | | | | | |
| 10640.0 | 60.37 | -7.43 | 52.94 | 74 | -21.06 | PK | 308 | 1.4 | H |
| 10640.0 | 50.27 | -7.43 | 42.84 | 54 | -11.16 | AV | 121 | 1.7 | H |
| 10640.0 | 61.26 | -2.42 | 58.84 | 74 | -15.16 | PK | 205 | 1.5 | V |
| 10640.0 | 47.87 | -2.42 | 45.45 | 54 | -8.55 | AV | 235 | 1.4 | V |
| Channel:5500MHz | | | | | | | | | |
| 11000.0 | 60.16 | -7.43 | 52.73 | 74 | -21.27 | PK | 308 | 1.4 | H |
| 11000.0 | 49.22 | -7.43 | 41.79 | 54 | -12.21 | AV | 121 | 1.7 | H |

| | | | | | | | | | |
|-----------------|-------|-------|-------|----|--------|----|-----|-----|---|
| 11000.0 | 57.90 | -2.42 | 55.48 | 74 | -18.52 | PK | 205 | 1.5 | V |
| 11000.0 | 47.88 | -2.42 | 45.46 | 54 | -8.54 | AV | 235 | 1.4 | V |
| Channel:5700MHz | | | | | | | | | |
| 11400.0 | 59.89 | -7.43 | 52.46 | 74 | -21.54 | PK | 308 | 1.4 | H |
| 11400.0 | 50.18 | -7.43 | 42.75 | 54 | -11.25 | AV | 121 | 1.7 | H |
| 11400.0 | 61.60 | -2.42 | 59.18 | 74 | -14.82 | PK | 205 | 1.5 | V |
| 11400.0 | 48.41 | -2.42 | 45.99 | 54 | -8.01 | AV | 235 | 1.4 | V |
| Channel:5745MHz | | | | | | | | | |
| 11490.0 | 61.76 | -7.43 | 54.33 | 74 | -19.67 | PK | 308 | 1.4 | H |
| 11490.0 | 49.54 | -7.43 | 42.11 | 54 | -11.89 | AV | 121 | 1.7 | H |
| 11490.0 | 61.41 | -2.42 | 58.99 | 74 | -15.01 | PK | 205 | 1.5 | V |
| 11490.0 | 48.14 | -2.42 | 45.72 | 54 | -8.28 | AV | 235 | 1.4 | V |
| Channel:5825MHz | | | | | | | | | |
| 11650.0 | 59.92 | -7.43 | 52.49 | 74 | -21.51 | PK | 308 | 1.4 | H |
| 11650.0 | 49.84 | -7.43 | 42.41 | 54 | -11.59 | AV | 121 | 1.7 | H |
| 11650.0 | 59.00 | -2.42 | 56.58 | 74 | -17.42 | PK | 205 | 1.5 | V |
| 11650.0 | 47.84 | -2.42 | 45.42 | 54 | -8.58 | AV | 235 | 1.4 | V |

Modulation : 802.11(n40) (the worst data)

| Freq (MHz) | Rd_level (dBuV/m) | Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over (dB) | detector | Height | Degree | Antenna polarization |
|-----------------|-------------------|-------------|----------------|----------------|-----------|----------|--------|--------|----------------------|
| Channel:5190MHz | | | | | | | | | |
| 10380.0 | 58.94 | -7.43 | 51.51 | 74 | -22.49 | PK | 6 | 1.4 | H |
| 10380.0 | 49.81 | -7.43 | 42.38 | 54 | -11.62 | AV | 245 | 1.5 | H |
| 10380.0 | 61.91 | -2.42 | 59.49 | 74 | -14.51 | PK | 251 | 1.7 | V |
| 10380.0 | 47.32 | -2.42 | 44.90 | 54 | -9.10 | AV | 39 | 1.3 | V |
| Channel:5230MHz | | | | | | | | | |
| 10460.0 | 58.35 | -7.43 | 50.92 | 74 | -23.08 | PK | 308 | 1.4 | H |
| 10460.0 | 48.89 | -7.43 | 41.46 | 54 | -12.54 | AV | 121 | 1.7 | H |
| 10460.0 | 57.66 | -2.42 | 55.24 | 74 | -18.76 | PK | 205 | 1.5 | V |
| 10460.0 | 47.64 | -2.42 | 45.22 | 54 | -8.78 | AV | 235 | 1.4 | V |
| Channel:5270MHz | | | | | | | | | |
| 10540.0 | 62.92 | -7.43 | 55.49 | 74 | -18.51 | PK | 308 | 1.4 | H |
| 10540.0 | 49.18 | -7.43 | 41.75 | 54 | -12.25 | AV | 121 | 1.7 | H |
| 10540.0 | 59.59 | -2.42 | 57.17 | 74 | -16.83 | PK | 205 | 1.5 | V |
| 10540.0 | 47.54 | -2.42 | 45.12 | 54 | -8.88 | AV | 235 | 1.4 | V |
| Channel:5310MHz | | | | | | | | | |
| 10620.0 | 62.91 | -7.43 | 55.48 | 74 | -18.52 | PK | 308 | 1.4 | H |
| 10620.0 | 48.99 | -7.43 | 41.56 | 54 | -12.44 | AV | 121 | 1.7 | H |
| 10620.0 | 59.25 | -2.42 | 56.83 | 74 | -17.17 | PK | 205 | 1.5 | V |
| 10620.0 | 47.57 | -2.42 | 45.15 | 54 | -8.85 | AV | 235 | 1.4 | V |
| Channel:5510MHz | | | | | | | | | |
| 11020.0 | 60.83 | -7.43 | 53.40 | 74 | -20.60 | PK | 308 | 1.4 | H |
| 11020.0 | 49.28 | -7.43 | 41.85 | 54 | -12.15 | AV | 121 | 1.7 | H |
| 11020.0 | 59.30 | -2.42 | 56.88 | 74 | -17.12 | PK | 205 | 1.5 | V |

| | | | | | | | | | |
|-----------------|-------|-------|-------|----|--------|----|-----|-----|---|
| 11020.0 | 47.90 | -2.42 | 45.48 | 54 | -8.52 | AV | 235 | 1.4 | V |
| Channel:5670MHz | | | | | | | | | |
| 11340.0 | 61.12 | -7.43 | 53.69 | 74 | -20.31 | PK | 308 | 1.4 | H |
| 11340.0 | 50.04 | -7.43 | 42.61 | 54 | -11.39 | AV | 121 | 1.7 | H |
| 11340.0 | 62.44 | -2.42 | 60.02 | 74 | -13.98 | PK | 205 | 1.5 | V |
| 11340.0 | 48.48 | -2.42 | 46.06 | 54 | -7.94 | AV | 235 | 1.4 | V |
| Channel:5755MHz | | | | | | | | | |
| 11510.0 | 59.75 | -7.43 | 52.32 | 74 | -21.68 | PK | 308 | 1.4 | H |
| 11510.0 | 50.10 | -7.43 | 42.67 | 54 | -11.33 | AV | 121 | 1.7 | H |
| 11510.0 | 60.64 | -2.42 | 58.22 | 74 | -15.78 | PK | 205 | 1.5 | V |
| 11510.0 | 48.06 | -2.42 | 45.64 | 54 | -8.36 | AV | 235 | 1.4 | V |
| Channel:5795MHz | | | | | | | | | |
| 11590.0 | 58.34 | -7.43 | 50.91 | 74 | -23.09 | PK | 308 | 1.4 | H |
| 11590.0 | 49.93 | -7.43 | 42.50 | 54 | -11.50 | AV | 121 | 1.7 | H |
| 11590.0 | 61.68 | -2.42 | 59.26 | 74 | -14.74 | PK | 205 | 1.5 | V |
| 11590.0 | 47.90 | -2.42 | 45.48 | 54 | -8.52 | AV | 235 | 1.4 | V |

Modulation : 802.11(VH80) (the worst data)

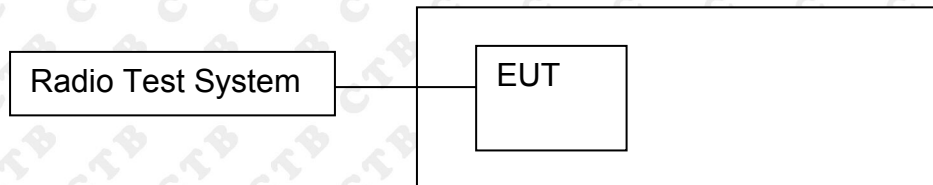
| Freq (MHz) | Rd_level (dBuV/m) | Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over (dB) | detector | Height | Degree | Antenna polarization |
|-----------------|-------------------|-------------|----------------|----------------|-----------|----------|--------|--------|----------------------|
| Channel:5210MHz | | | | | | | | | |
| 10420.0 | 61.32 | -7.43 | 53.89 | 74 | -20.11 | PK | 6 | 1.4 | H |
| 10420.0 | 49.79 | -7.43 | 42.36 | 54 | -11.64 | AV | 245 | 1.5 | H |
| 10420.0 | 61.37 | -2.42 | 58.95 | 74 | -15.05 | PK | 251 | 1.7 | V |
| 10420.0 | 47.49 | -2.42 | 45.07 | 54 | -8.93 | AV | 39 | 1.3 | V |
| Channel:5290MHz | | | | | | | | | |
| 10580.0 | 59.88 | -7.43 | 52.45 | 74 | -21.55 | PK | 308 | 1.4 | H |
| 10580.0 | 49.33 | -7.43 | 41.90 | 54 | -12.10 | AV | 121 | 1.7 | H |
| 10580.0 | 59.42 | -2.42 | 57.00 | 74 | -17.00 | PK | 205 | 1.5 | V |
| 10580.0 | 49.22 | -2.42 | 46.80 | 54 | -7.20 | AV | 235 | 1.4 | V |
| Channel:5530MHz | | | | | | | | | |
| 11060.0 | 61.74 | -7.43 | 54.31 | 74 | -19.69 | PK | 308 | 1.4 | H |
| 11060.0 | 49.21 | -7.43 | 41.78 | 54 | -12.22 | AV | 121 | 1.7 | H |
| 11060.0 | 62.14 | -2.42 | 59.72 | 74 | -14.28 | PK | 205 | 1.5 | V |
| 11060.0 | 48.25 | -2.42 | 45.83 | 54 | -8.17 | AV | 235 | 1.4 | V |
| Channel:5690MHz | | | | | | | | | |
| 11380.0 | 62.18 | -7.43 | 54.75 | 74 | -19.25 | PK | 308 | 1.4 | H |
| 11380.0 | 49.85 | -7.43 | 42.42 | 54 | -11.58 | AV | 121 | 1.7 | H |
| 11380.0 | 61.07 | -2.42 | 58.65 | 74 | -15.35 | PK | 205 | 1.5 | V |
| 11380.0 | 47.91 | -2.42 | 45.49 | 54 | -8.51 | AV | 235 | 1.4 | V |
| Channel:5775MHz | | | | | | | | | |
| 11550.0 | 62.69 | -7.43 | 55.26 | 74 | -18.74 | PK | 308 | 1.4 | H |
| 11550.0 | 50.58 | -7.43 | 43.15 | 54 | -10.85 | AV | 121 | 1.7 | H |
| 11550.0 | 58.92 | -2.42 | 56.50 | 74 | -17.50 | PK | 205 | 1.5 | V |
| 11550.0 | 48.49 | -2.42 | 46.07 | 54 | -7.93 | AV | 235 | 1.4 | V |

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits
2. The EUT was tested in the low, high channel and the worst case position data was reported.
3. Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

8. BAND EDGE

8.1 Block Diagram Of Test Setup



8.2 Limit

- (1) 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.
- (2) For transmitters operating in the 5.25-5.35 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.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

8.3 Test procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

8.4 Test Result

Remark: This Report only show the test plots of the ANT1 worst case.

| Test Mode | Channel(MHz) | Max.Level [dBm] | Verdict |
|-----------|--------------|-----------------|---------|
| 802.11a | 5180 | -49.56 | PASS |
| | 5240 | -50.93 | PASS |
| | 5260 | -52.07 | PASS |
| | 5320 | -48.35 | PASS |
| | 5500 | -49.4 | PASS |
| | 5700 | -48.02 | PASS |
| | 5745 | -43.1 | PASS |
| | 5825 | -48.215 | PASS |

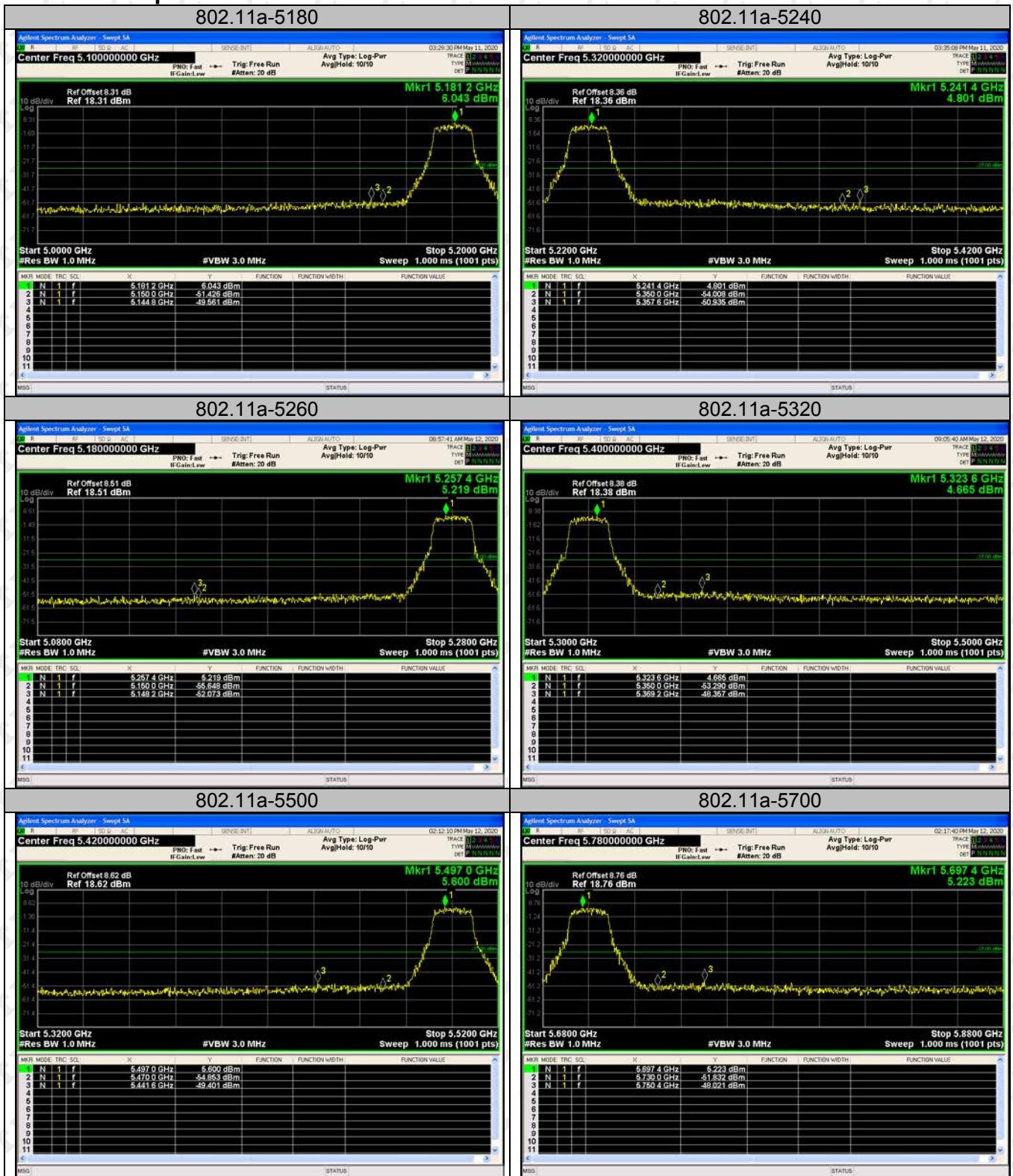
| Test Mode | Channel(MHz) | Max.Level [dBm] | Verdict |
|-----------|--------------|-----------------|---------|
| 802.11n20 | 5180 | -49.15 | PASS |
| | 5240 | -51.21 | PASS |
| | 5260 | -52.64 | PASS |
| | 5320 | -49.51 | PASS |
| | 5500 | -47.62 | PASS |
| | 5700 | -49.11 | PASS |
| | 5745 | -42.22 | PASS |
| | 5825 | -44.485 | PASS |

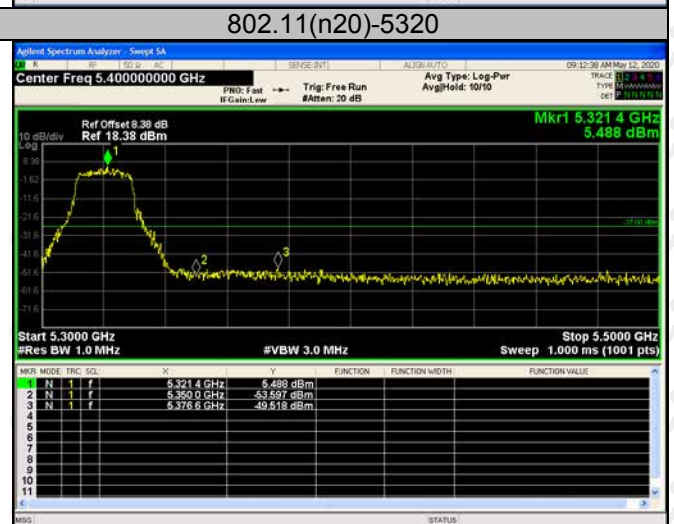
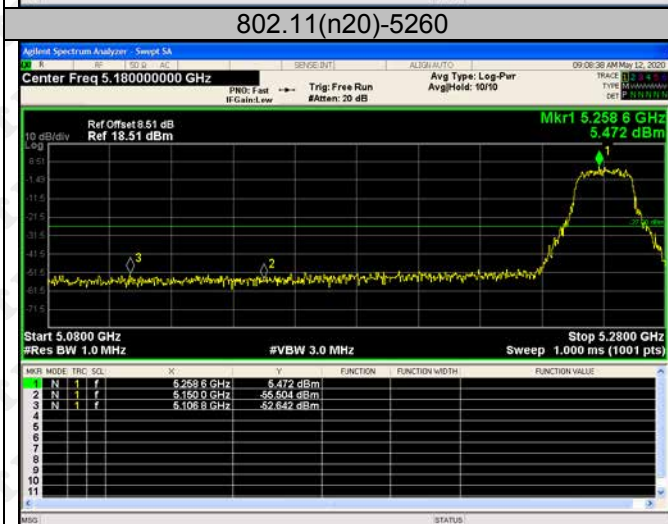
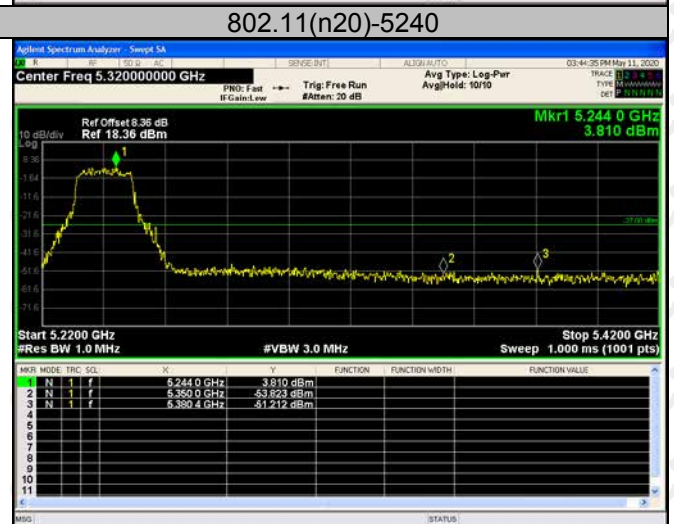
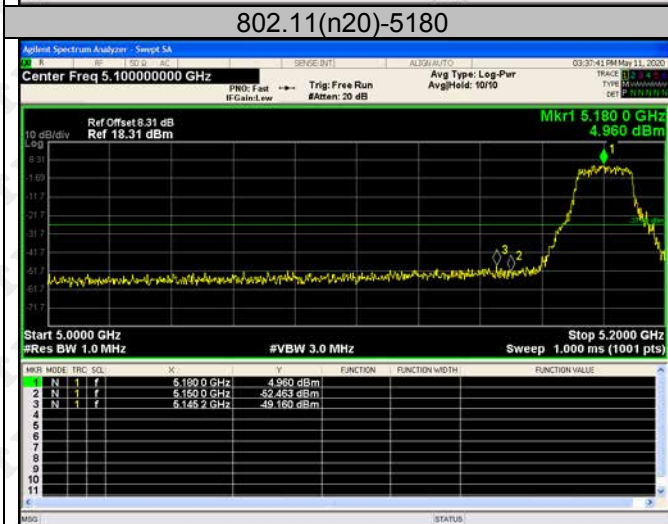
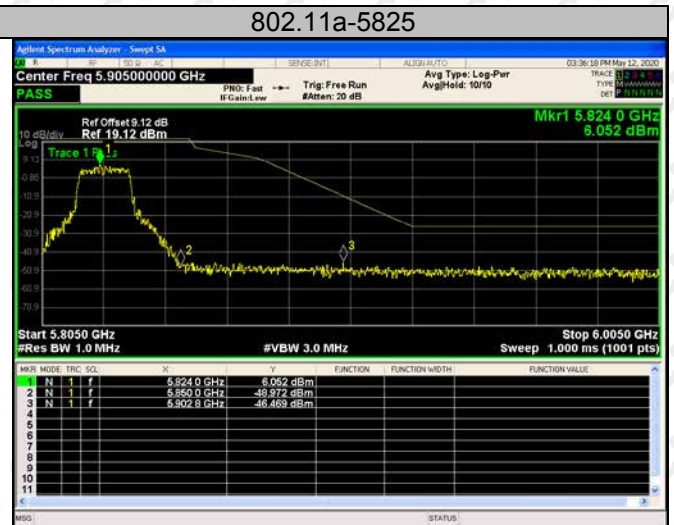
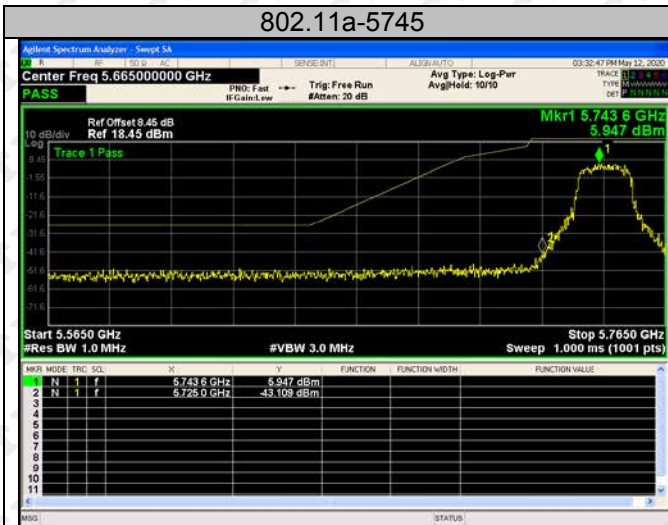
| Test Mode | Channel(MHz) | Max.Level [dBm] | Verdict |
|-----------|--------------|-----------------|---------|
| 802.11n40 | 5190 | -49.59 | PASS |
| | 5230 | -51.69 | PASS |
| | 5270 | -51.14 | PASS |
| | 5310 | -48.2 | PASS |
| | 5510 | -48.1 | PASS |
| | 5670 | -48.96 | PASS |
| | 5755 | -46.87 | PASS |
| | 5795 | -47.708 | PASS |

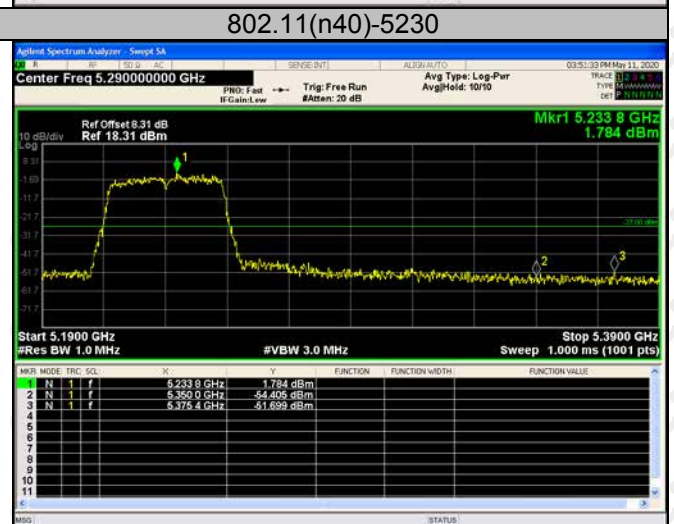
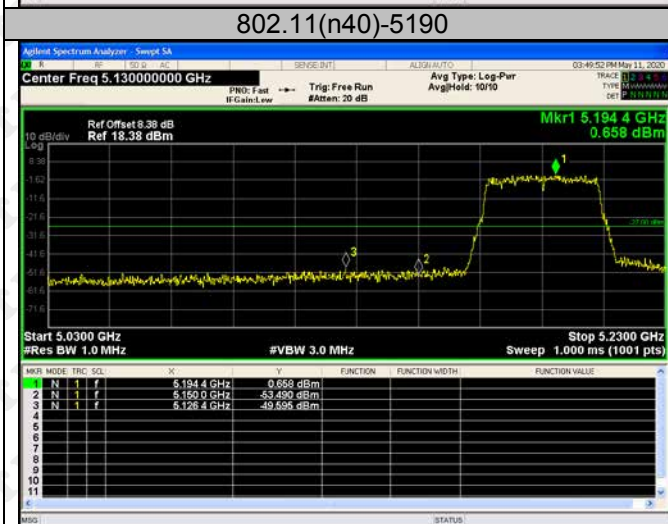
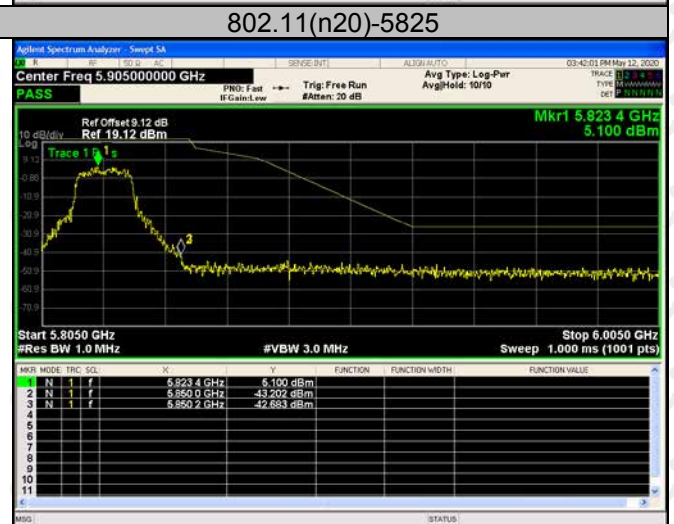
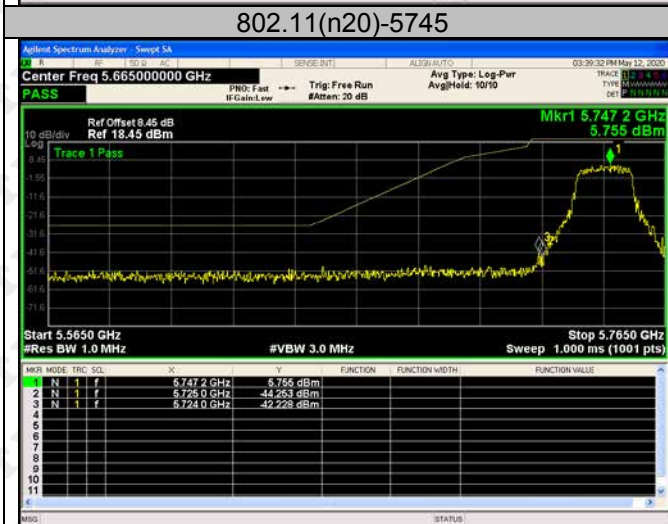
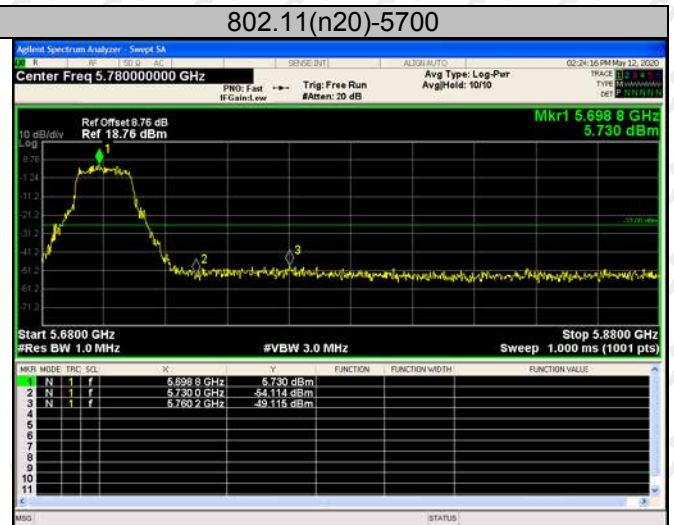
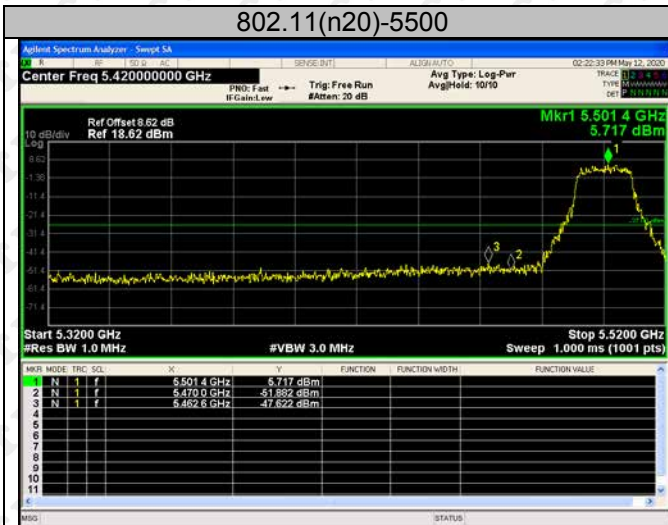
| Test Mode | Channel(MHz) | Max.Level [dBm] | Verdict |
|--------------------|--------------|-----------------|---------|
| 802.11 ac(VH20) | 5180 | -49.82 | PASS |
| | 5240 | -51.52 | PASS |
| | 5260 | -52.05 | PASS |
| | 5320 | -49.62 | PASS |
| | 5500 | -47.66 | PASS |
| | 5700 | -48.37 | PASS |
| | 5745 | -45.73 | PASS |
| | 5825 | -46.292 | PASS |
| Test Mode | Channel(MHz) | Max.Level [dBm] | Verdict |
| 802.11 ac(VH40) | 5190 | -50.11 | PASS |
| | 5230 | -51.94 | PASS |
| | 5270 | -52.7 | PASS |
| | 5310 | -48.31 | PASS |
| | 5510 | -48.77 | PASS |
| | 5670 | -47.42 | PASS |
| | 5755 | -44.53 | PASS |
| | 5795 | -47.808 | PASS |

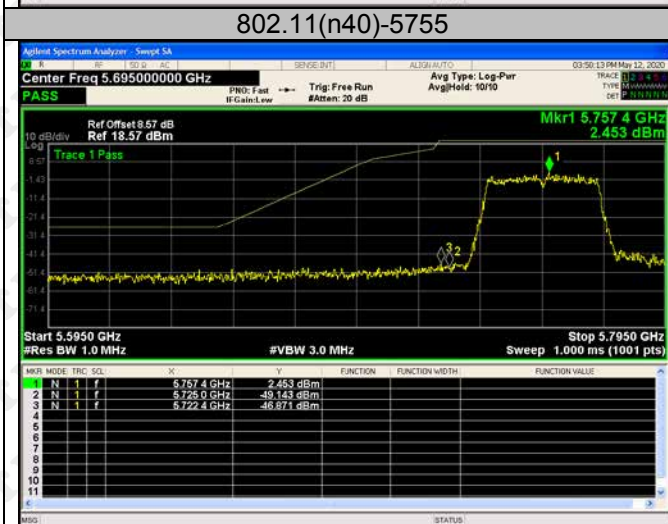
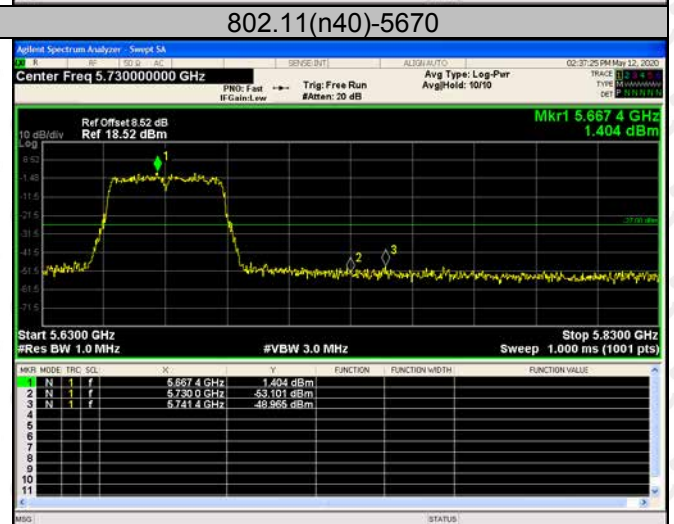
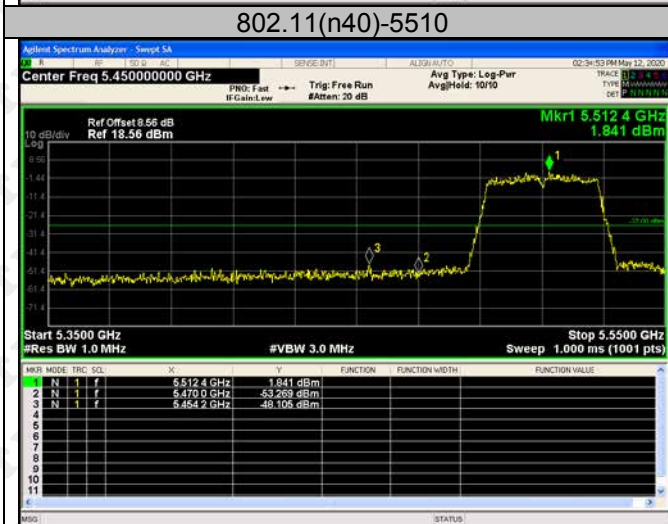
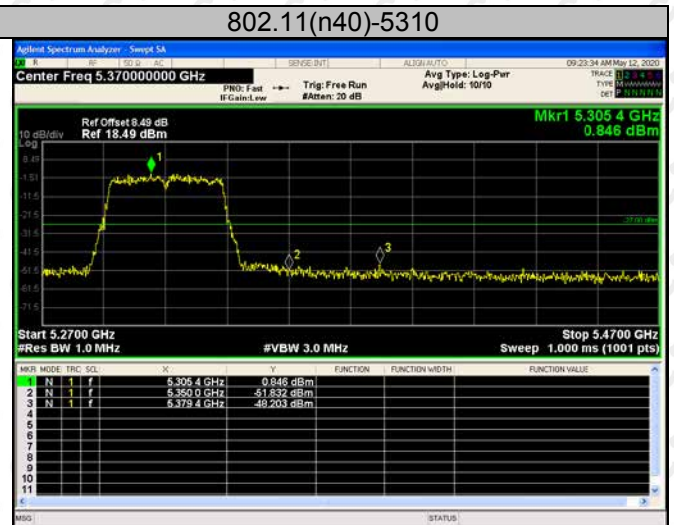
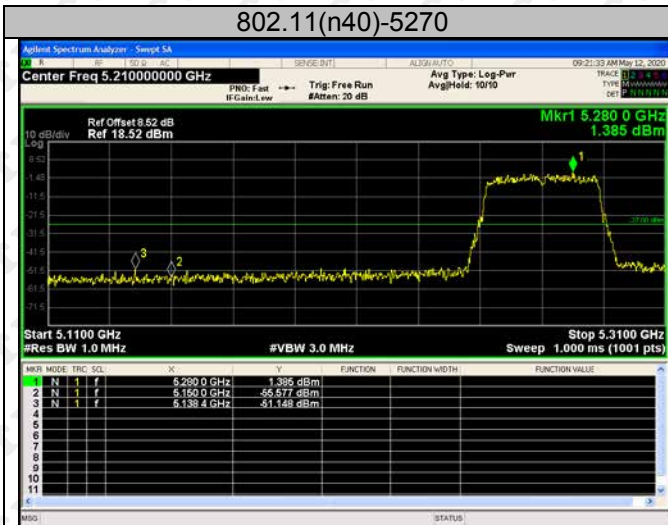
| Test Mode | Channel(MHz) | Max.Level [dBm] | Verdict |
|-----------------|--------------|-----------------|---------|
| 802.11 ac(VH80) | 5210(right) | -51.83 | PASS |
| | 5210(left) | -50.46 | PASS |
| | 5290(right) | -47.52 | PASS |
| | 5290(left) | -44.557 | PASS |
| | 5530(right) | -51.17 | PASS |
| | 5530(left) | -50.33 | PASS |
| | 5775(right) | -43.32 | PASS |
| | 5775(left) | -30.267 | PASS |

Test Graph

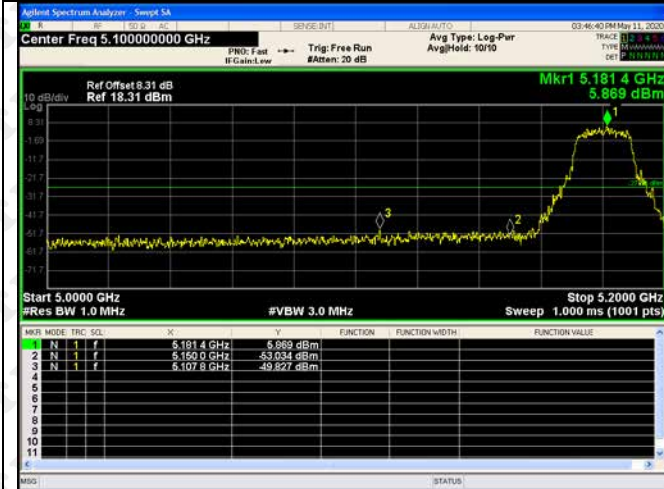




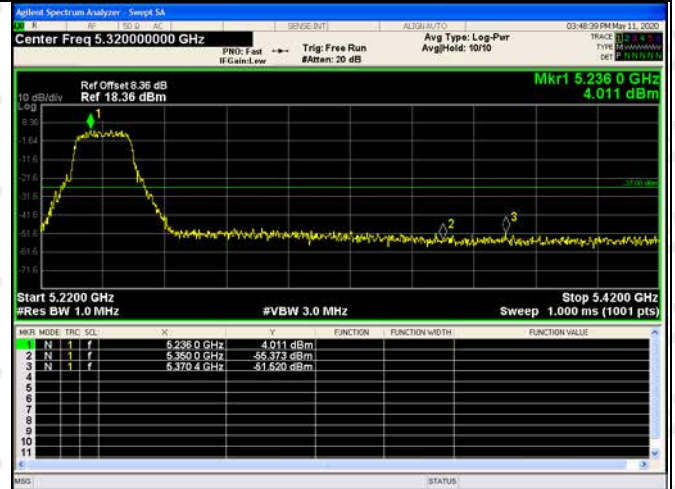




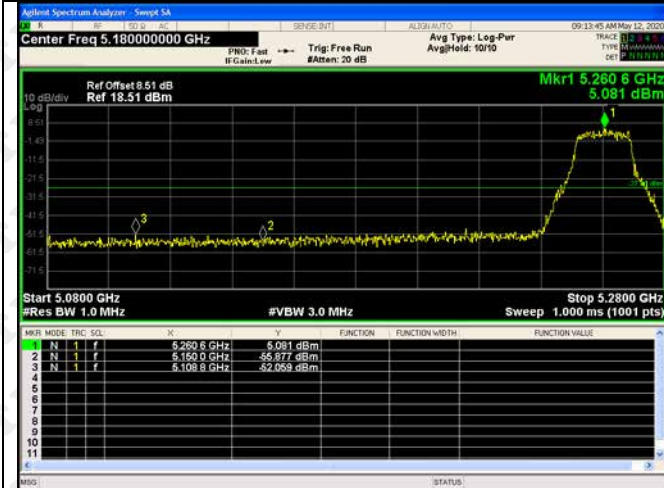
802.11ac(VH20)-5180



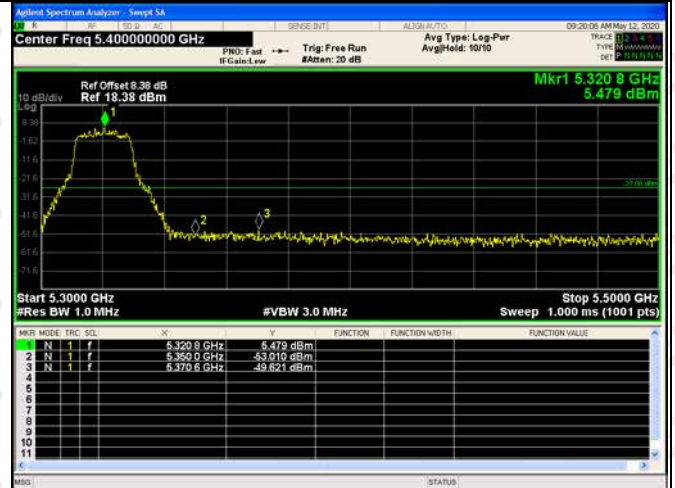
802.11ac(VH20)-5240



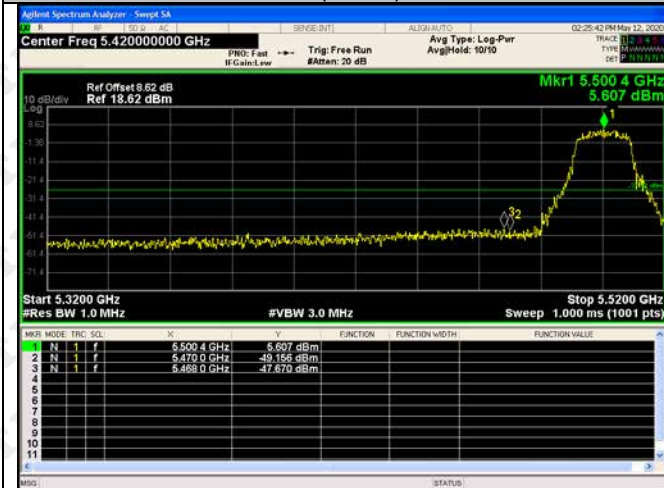
802.11ac(VH20)-5260



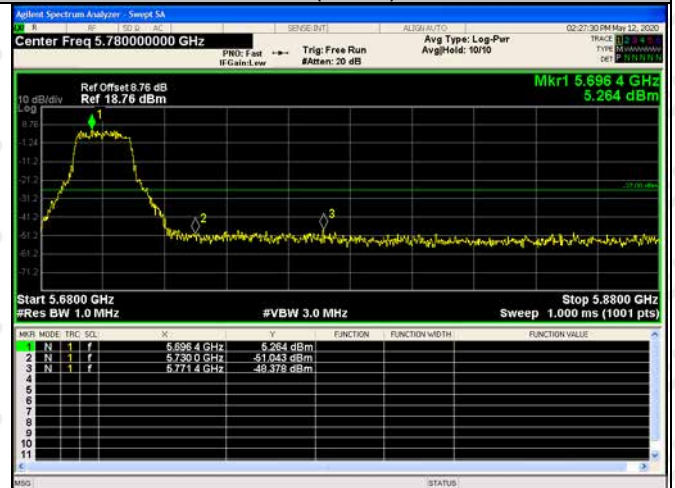
802.11ac(VH20)-5320

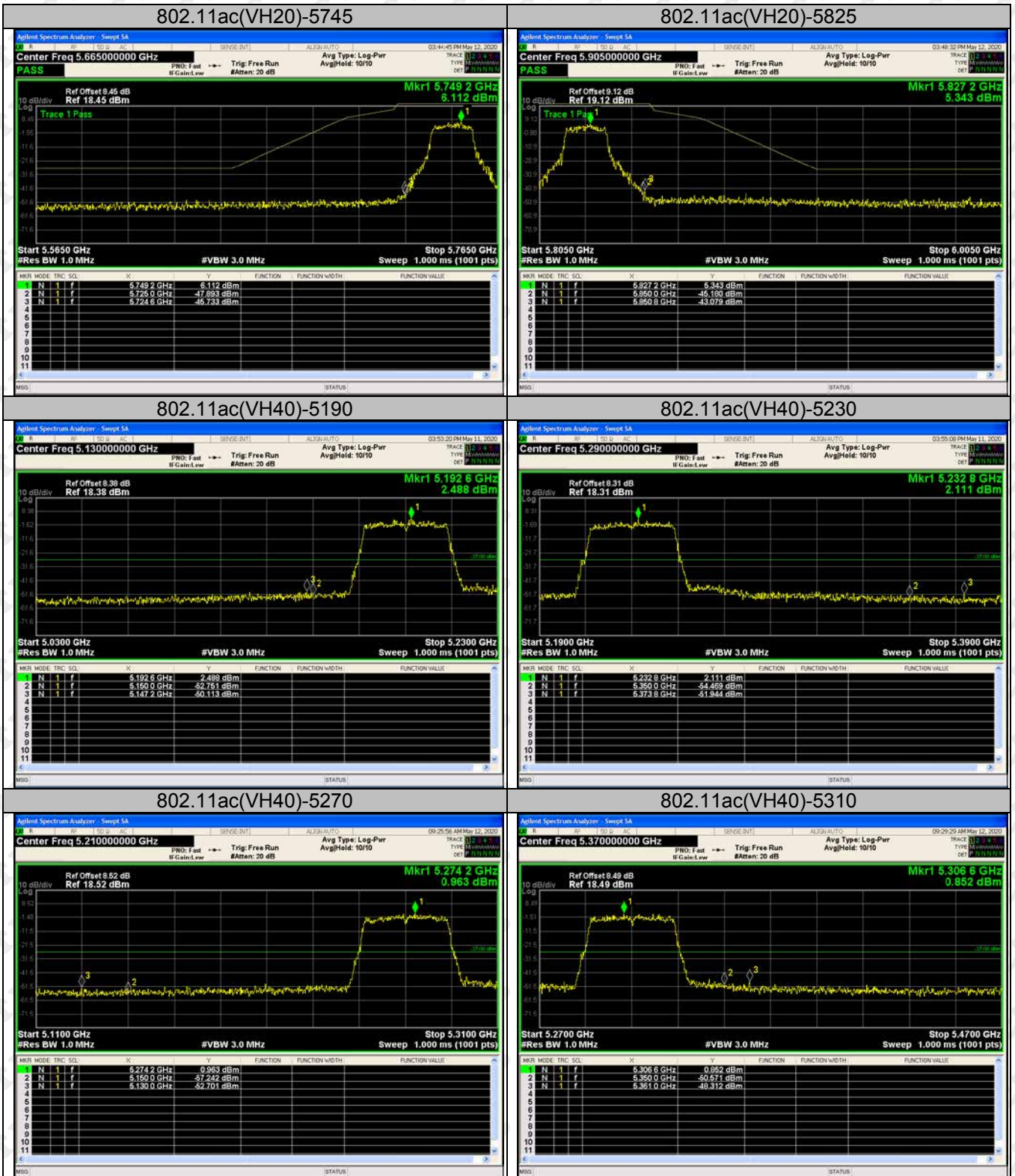


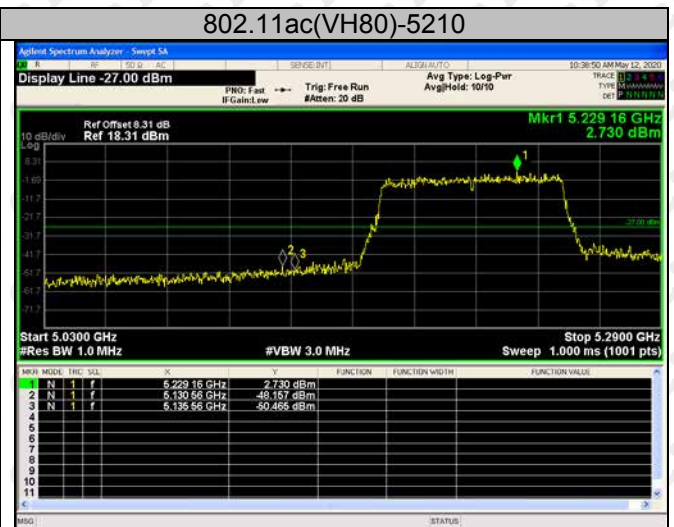
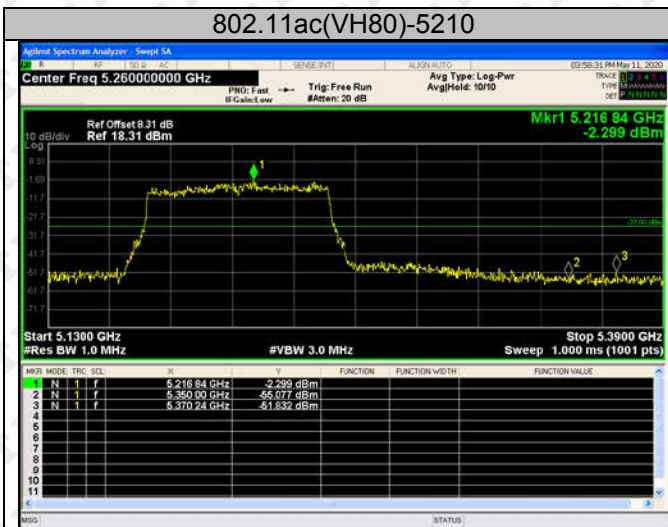
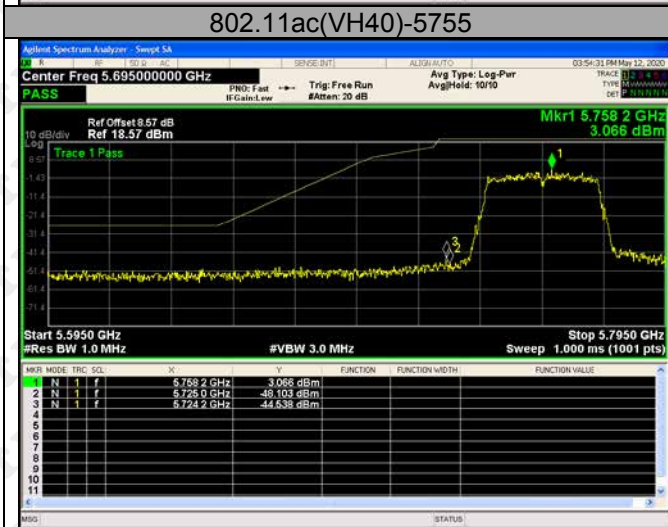
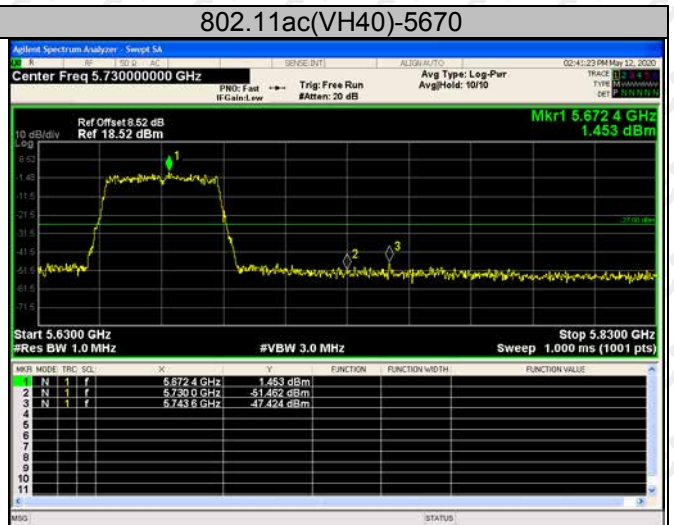
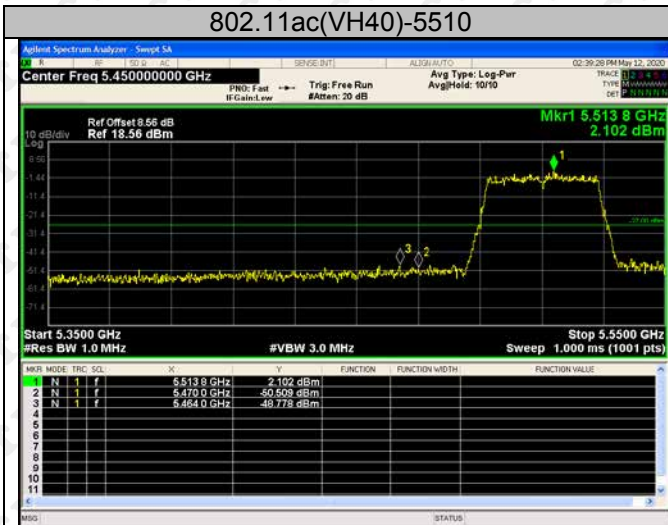
802.11ac(VH20)-5500

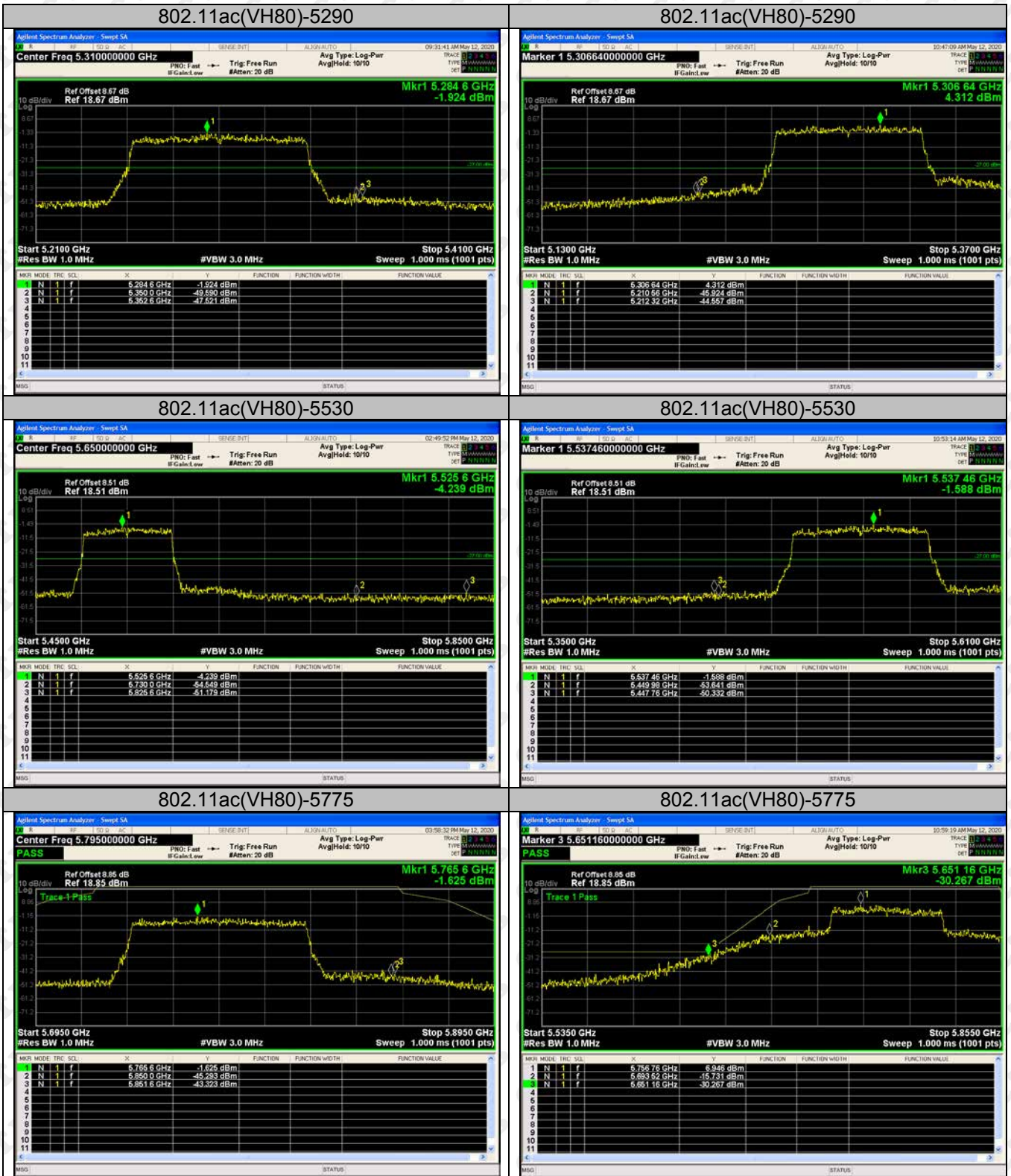


802.11ac(VH20)-5700



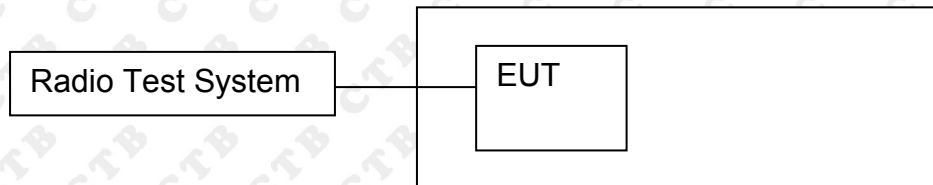






9. CONDUCTED PEAK OUTPUT POWER

9.1 Block Diagram Of Test Setup



9.2 Limit

(1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p.

at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. 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.

(iv) For mobile and portable 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. In addition, 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(4) The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

(5) The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a

bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

(h) Transmit Power Control (TPC) and Dynamic Frequency Selection (DFS).

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

9.3 Test procedure

According to KDB789033 D02v02r01 sectionE, the following is the measurement procedure.

- (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (ii) Set RBW = 1 MHz.
- (iii) Set VBW \geq 3 MHz.
- (iv) Number of points in sweep $\geq 2 \times$ span / RBW. (This ensures that bin-to-bin spacing is \leq RBW/2, so that narrowband signals are not lost between frequency bins.)
- (v) Sweep time = auto.
- (vi) Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
- (vii) If transmit duty cycle $<$ 98%, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle \geq 98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."
- (viii) Trace average at least 100 traces in power averaging (rms) mode.
- (ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

9.4 Test Result

ANT 1

5150-5250MHz

| Test mode | Test Channel (MHz) | Output Power dBm | Output Power mW | Limit mW |
|----------------|--------------------|------------------|-----------------|----------|
| 802.11a | 5180 | 13.654 | 23.195 | 250 |
| | 5200 | 13.766 | 23.801 | 250 |
| | 5240 | 13.301 | 21.385 | 250 |
| 802.11n(HT20) | 5180 | 13.766 | 23.801 | 250 |
| | 5200 | 13.592 | 22.867 | 250 |
| | 5240 | 13.286 | 21.311 | 250 |
| 802.11n(HT40) | 5190 | 12.88 | 19.409 | 250 |
| | 5230 | 12.746 | 18.819 | 250 |
| 802.11ac(VH20) | 5180 | 13.807 | 24.027 | 250 |
| | 5200 | 13.557 | 22.683 | 250 |
| | 5240 | 13.249 | 21.130 | 250 |
| 802.11ac(VH40) | 5190 | 12.921 | 19.593 | 250 |
| | 5230 | 12.783 | 18.980 | 250 |
| 802.11ac(VH80) | 5210 | 11.254 | 13.348 | 250 |

5250-5350 MHz

| Test mode | Test Channel (MHz) | Output Power dBm | Output Power mW | Limit mW |
|----------------|--------------------|------------------|-----------------|----------|
| 802.11a | 5260 | 14.279 | 26.786 | 250 |
| | 5280 | 14.434 | 27.759 | 250 |
| | 5320 | 14.101 | 25.710 | 250 |
| 802.11n(HT20) | 5260 | 13.563 | 22.714 | 250 |
| | 5280 | 13.675 | 23.308 | 250 |
| | 5320 | 13.953 | 24.848 | 250 |
| 802.11n(HT40) | 5270 | 12.572 | 18.080 | 250 |
| | 5310 | 12.68 | 18.535 | 250 |
| 802.11ac(VH20) | 5260 | 13.49 | 22.336 | 250 |
| | 5280 | 13.726 | 23.583 | 250 |
| | 5320 | 13.91 | 24.604 | 250 |
| 802.11ac(VH40) | 5270 | 12.63 | 18.323 | 250 |
| | 5310 | 12.652 | 18.416 | 250 |
| 802.11ac(VH80) | 5290 | 12.084 | 16.158 | 250 |

5470-5725 MHz

| Test mode | Test Channel (MHz) | Output Power dBm | Output Power mW | Limit mW |
|----------------|--------------------|------------------|-----------------|----------|
| 802.11a | 5500 | 13.9 | 24.547 | 250 |
| | 5580 | 14.027 | 25.276 | 250 |
| | 5700 | 14.063 | 25.486 | 250 |
| 802.11n(HT20) | 5500 | 13.991 | 25.067 | 250 |
| | 5580 | 14.095 | 25.674 | 250 |
| | 5700 | 14.273 | 26.749 | 250 |
| 802.11n(HT40) | 5510 | 12.596 | 18.180 | 250 |
| | 5670 | 12.71 | 18.664 | 250 |
| 802.11ac(VH20) | 5500 | 11.665 | 14.672 | 250 |
| | 5580 | 14.043 | 25.369 | 250 |
| | 5700 | 14.223 | 26.442 | 250 |
| 802.11ac(VH40) | 5510 | 14.156 | 26.038 | 250 |
| | 5670 | 12.562 | 18.038 | 250 |
| 802.11ac(VH80) | 5530 | 12.607 | 18.226 | 250 |

5725-5850MHz

| Test mode | Test Channel (MHz) | Output Power dBm | Output Power mW | Limit mW |
|----------------|--------------------|------------------|-----------------|----------|
| 802.11a | 5745 | 14.667 | 29.289 | 1000 |
| | 5785 | 14.516 | 28.288 | 1000 |
| | 5825 | 14.684 | 29.404 | 1000 |
| 802.11n(HT20) | 5745 | 14.729 | 29.655 | 1000 |
| | 5785 | 14.728 | 30.054 | 1000 |
| | 5825 | 14.735 | 29.607 | 1000 |
| 802.11n(HT40) | 5755 | 13.785 | 23.774 | 1000 |
| | 5795 | 14.015 | 25.252 | 1000 |
| 802.11ac(VH20) | 5745 | 14.721 | 18.819 | 1000 |
| | 5785 | 14.779 | 29.710 | 1000 |
| | 5825 | 14.714 | 29.703 | 1000 |
| 802.11ac(VH40) | 5755 | 13.761 | 29.751 | 1000 |
| | 5795 | 14.023 | 23.906 | 1000 |
| 802.11ac(VH80) | 5775 | 12.746 | 25.206 | 1000 |

ANT 2
5150-5250MHz

| Test mode | Test Channel (MHz) | Output Power dBm | Output Power mW | Limit mW |
|----------------|--------------------|------------------|-----------------|----------|
| 802.11a | 5180 | 13.786 | 23.911 | 250 |
| | 5200 | 13.805 | 24.016 | 250 |
| | 5240 | 13.349 | 21.622 | 250 |
| 802.11n(HT20) | 5180 | 13.816 | 24.077 | 250 |
| | 5200 | 13.71 | 23.496 | 250 |
| | 5240 | 13.248 | 21.125 | 250 |
| 802.11n(HT40) | 5190 | 12.907 | 19.530 | 250 |
| | 5230 | 12.81 | 19.099 | 250 |
| 802.11ac(VH20) | 5180 | 11.216 | 13.231 | 250 |
| | 5200 | 13.787 | 23.917 | 250 |
| | 5240 | 13.676 | 23.313 | 250 |
| 802.11ac(VH40) | 5190 | 13.247 | 21.120 | 250 |
| | 5230 | 12.948 | 19.715 | 250 |
| 802.11ac(VH80) | 5210 | 12.8 | 19.055 | 250 |

5250-5350 MHz

| Test mode | Test Channel (MHz) | Output Power dBm | Output Power mW | Limit mW |
|----------------|--------------------|------------------|-----------------|----------|
| 802.11a | 5260 | 14.575 | 28.675 | 250 |
| | 5280 | 14.664 | 29.268 | 250 |
| | 5320 | 14.064 | 25.492 | 250 |
| 802.11n(HT20) | 5260 | 13.577 | 22.788 | 250 |
| | 5280 | 13.812 | 24.055 | 250 |
| | 5320 | 14.022 | 25.246 | 250 |
| 802.11n(HT40) | 5270 | 12.605 | 18.218 | 250 |
| | 5310 | 12.765 | 18.902 | 250 |
| 802.11ac(VH20) | 5260 | 12.214 | 16.649 | 250 |
| | 5280 | 13.657 | 23.211 | 250 |
| | 5320 | 13.719 | 23.545 | 250 |
| 802.11ac(VH40) | 5270 | 13.967 | 24.929 | 250 |
| | 5310 | 12.629 | 18.319 | 250 |
| 802.11ac(VH80) | 5290 | 12.752 | 18.845 | 250 |

5470-5725 MHz

| Test mode | Test Channel (MHz) | Output Power dBm | Output Power mW | Limit mW |
|----------------|--------------------|------------------|-----------------|----------|
| 802.11a | 5500 | 13.928 | 24.706 | 250 |
| | 5580 | 14.248 | 26.595 | 250 |
| | 5700 | 14.34 | 27.164 | 250 |
| 802.11n(HT20) | 5500 | 14.083 | 25.604 | 250 |
| | 5580 | 14.116 | 25.799 | 250 |
| | 5700 | 14.59 | 28.774 | 250 |
| 802.11n(HT40) | 5510 | 12.754 | 18.854 | 250 |
| | 5670 | 13.057 | 20.216 | 250 |
| 802.11ac(VH20) | 5500 | 11.999 | 15.845 | 250 |
| | 5580 | 14.203 | 26.321 | 250 |
| | 5700 | 14.151 | 26.008 | 250 |
| 802.11ac(VH40) | 5510 | 14.477 | 28.035 | 250 |
| | 5670 | 12.752 | 18.845 | 250 |
| 802.11ac(VH80) | 5530 | 13.106 | 20.446 | 250 |

5725-5850MHz

| Test mode | Test Channel (MHz) | Output Power dBm | Output Power mW | Limit mW |
|----------------|--------------------|------------------|-----------------|----------|
| 802.11a | 5745 | 14.597 | 28.820 | 1000 |
| | 5785 | 14.554 | 28.536 | 1000 |
| | 5825 | 14.725 | 29.682 | 1000 |
| 802.11n(HT20) | 5745 | 14.65 | 29.174 | 1000 |
| | 5785 | 14.742 | 29.799 | 1000 |
| | 5825 | 14.769 | 29.985 | 1000 |
| 802.11n(HT40) | 5755 | 13.835 | 24.182 | 1000 |
| | 5795 | 14.031 | 25.299 | 1000 |
| 802.11ac(VH20) | 5745 | 12.69 | 18.578 | 1000 |
| | 5785 | 14.722 | 29.662 | 1000 |
| | 5825 | 14.799 | 30.193 | 1000 |
| 802.11ac(VH40) | 5755 | 14.801 | 30.206 | 1000 |
| | 5795 | 13.797 | 23.972 | 1000 |
| 802.11ac(VH80) | 5775 | 14.118 | 25.811 | 1000 |

MIMO:ANT 1+ANT 2
5150-5250MHz

| Test mode | Test Channel (MHz) | Output Power dBm | Output Power mW | Limit mW |
|----------------|--------------------|------------------|-----------------|----------|
| 802.11a | 5180 | 16.731 | 47.109 | 250 |
| | 5200 | 16.796 | 47.819 | 250 |
| | 5240 | 16.335 | 43.003 | 250 |
| 802.11n(HT20) | 5180 | 16.801 | 47.874 | 250 |
| | 5200 | 16.662 | 46.366 | 250 |
| | 5240 | 16.277 | 42.433 | 250 |
| 802.11n(HT40) | 5190 | 15.904 | 38.940 | 250 |
| | 5230 | 15.788 | 37.914 | 250 |
| 802.11ac(VH20) | 5180 | 15.712 | 37.256 | 250 |
| | 5200 | 16.684 | 46.602 | 250 |
| | 5240 | 16.478 | 44.443 | 250 |
| 802.11ac(VH40) | 5190 | 16.097 | 40.710 | 250 |
| | 5230 | 15.877 | 38.699 | 250 |
| 802.11ac(VH80) | 5210 | 15.106 | 32.404 | 250 |

5250-5350 MHz

| Test mode | Test Channel (MHz) | Output Power dBm | Output Power mW | Limit mW |
|----------------|--------------------|------------------|-----------------|----------|
| 802.11a | 5260 | 17.440 | 55.463 | 250 |
| | 5280 | 17.561 | 57.030 | 250 |
| | 5320 | 17.093 | 51.204 | 250 |
| 802.11n(HT20) | 5260 | 16.580 | 45.499 | 250 |
| | 5280 | 16.754 | 47.359 | 250 |
| | 5320 | 16.998 | 50.096 | 250 |
| 802.11n(HT40) | 5270 | 15.599 | 36.299 | 250 |
| | 5310 | 15.733 | 37.437 | 250 |
| 802.11ac(VH20) | 5260 | 15.909 | 38.985 | 250 |
| | 5280 | 16.702 | 46.795 | 250 |
| | 5320 | 16.826 | 48.150 | 250 |
| 802.11ac(VH40) | 5270 | 16.360 | 43.251 | 250 |
| | 5310 | 15.651 | 36.737 | 250 |
| 802.11ac(VH80) | 5290 | 15.441 | 35.003 | 250 |

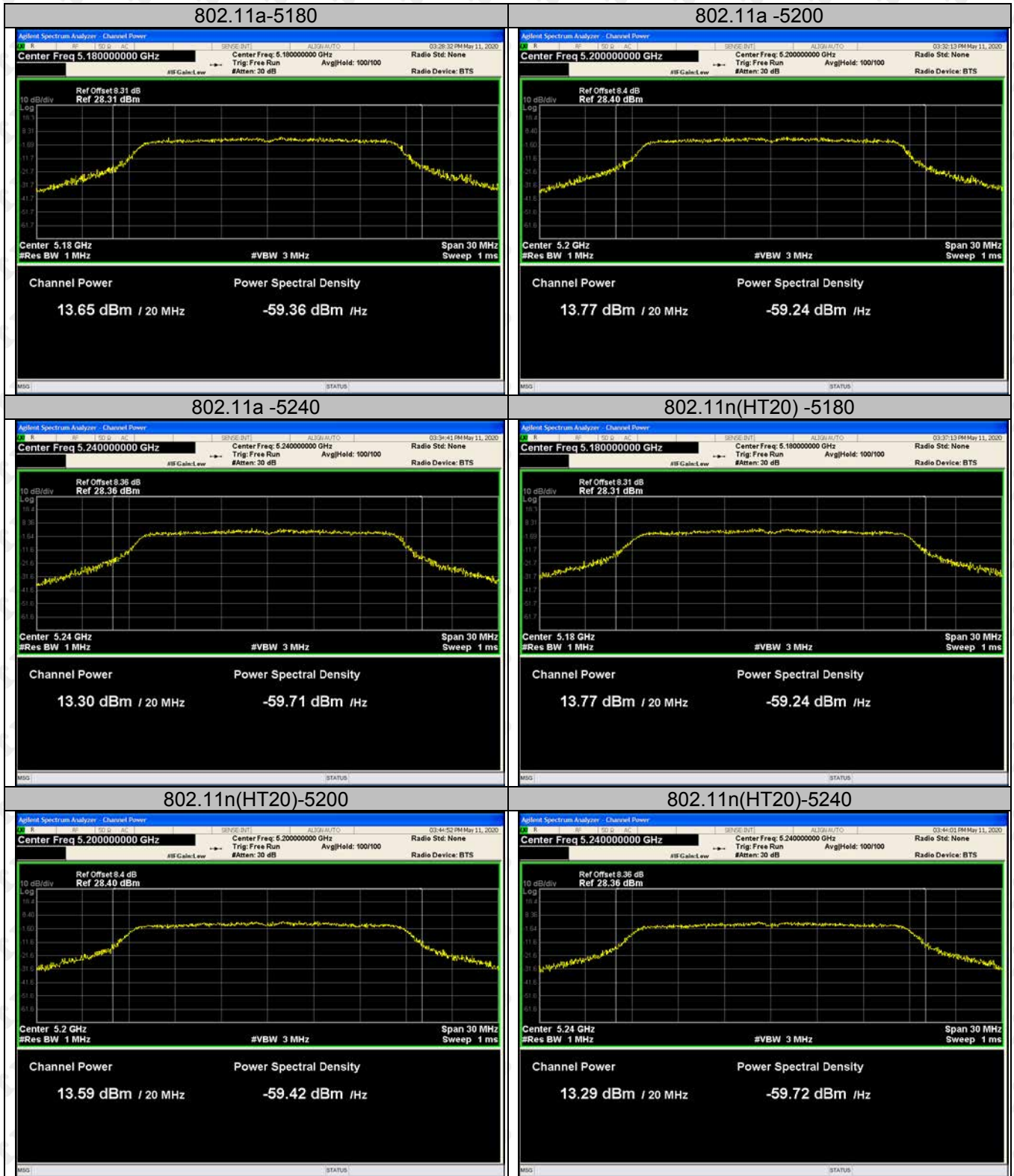
5470-5725 MHz

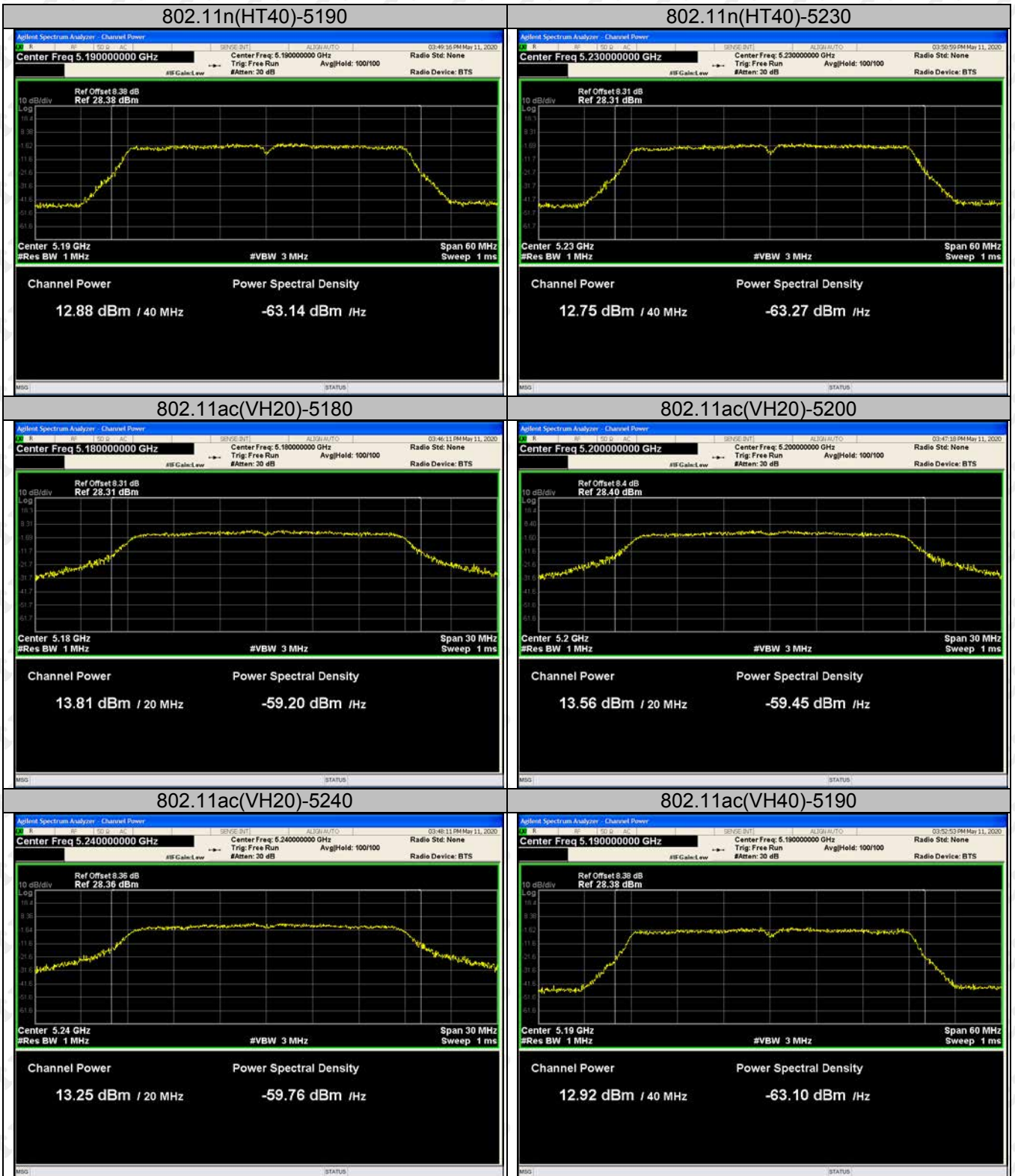
| Test mode | Test Channel (MHz) | Output Power dBm | Output Power mW | Limit mW |
|----------------|--------------------|------------------|-----------------|----------|
| 802.11a | 5500 | 16.924 | 49.253 | 250 |
| | 5580 | 17.149 | 51.871 | 250 |
| | 5700 | 17.214 | 52.650 | 250 |
| 802.11n(HT20) | 5500 | 17.048 | 50.670 | 250 |
| | 5580 | 17.116 | 51.473 | 250 |
| | 5700 | 17.445 | 55.523 | 250 |
| 802.11n(HT40) | 5510 | 15.686 | 37.034 | 250 |
| | 5670 | 15.897 | 38.880 | 250 |
| 802.11ac(VH20) | 5500 | 14.846 | 30.518 | 250 |
| | 5580 | 17.134 | 51.690 | 250 |
| | 5700 | 17.197 | 52.450 | 250 |
| 802.11ac(VH40) | 5510 | 17.330 | 54.073 | 250 |
| | 5670 | 15.668 | 36.884 | 250 |
| 802.11ac(VH80) | 5530 | 15.874 | 38.672 | 250 |

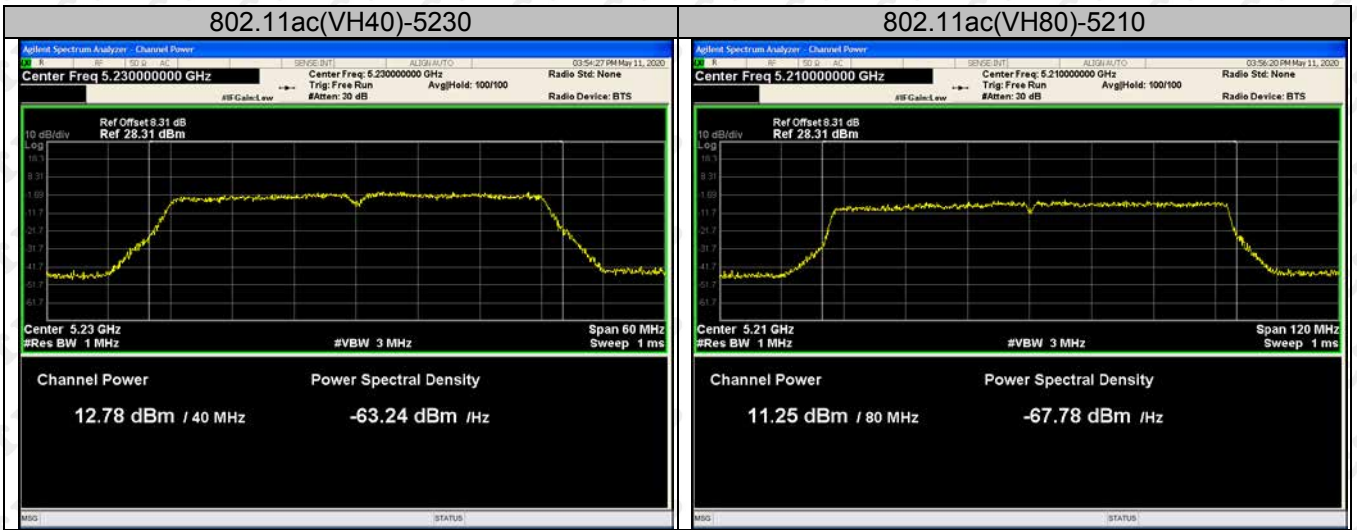
5725-5850MHz

| Test mode | Test Channel (MHz) | Output Power dBm | Output Power mW | Limit mW |
|----------------|--------------------|------------------|-----------------|----------|
| 802.11a | 5745 | 17.642 | 58.103 | 1000 |
| | 5785 | 17.545 | 56.820 | 1000 |
| | 5825 | 17.715 | 59.088 | 1000 |
| 802.11n(HT20) | 5745 | 17.700 | 58.884 | 1000 |
| | 5785 | 17.745 | 59.498 | 1000 |
| | 5825 | 17.762 | 59.731 | 1000 |
| 802.11n(HT40) | 5755 | 16.820 | 48.084 | 1000 |
| | 5795 | 17.033 | 50.501 | 1000 |
| 802.11ac(VH20) | 5745 | 16.833 | 48.228 | 1000 |
| | 5785 | 17.761 | 59.717 | 1000 |
| | 5825 | 17.767 | 59.800 | 1000 |
| 802.11ac(VH40) | 5755 | 17.322 | 53.976 | 1000 |
| | 5795 | 16.922 | 49.227 | 1000 |
| 802.11ac(VH80) | 5775 | 16.496 | 44.627 | 1000 |

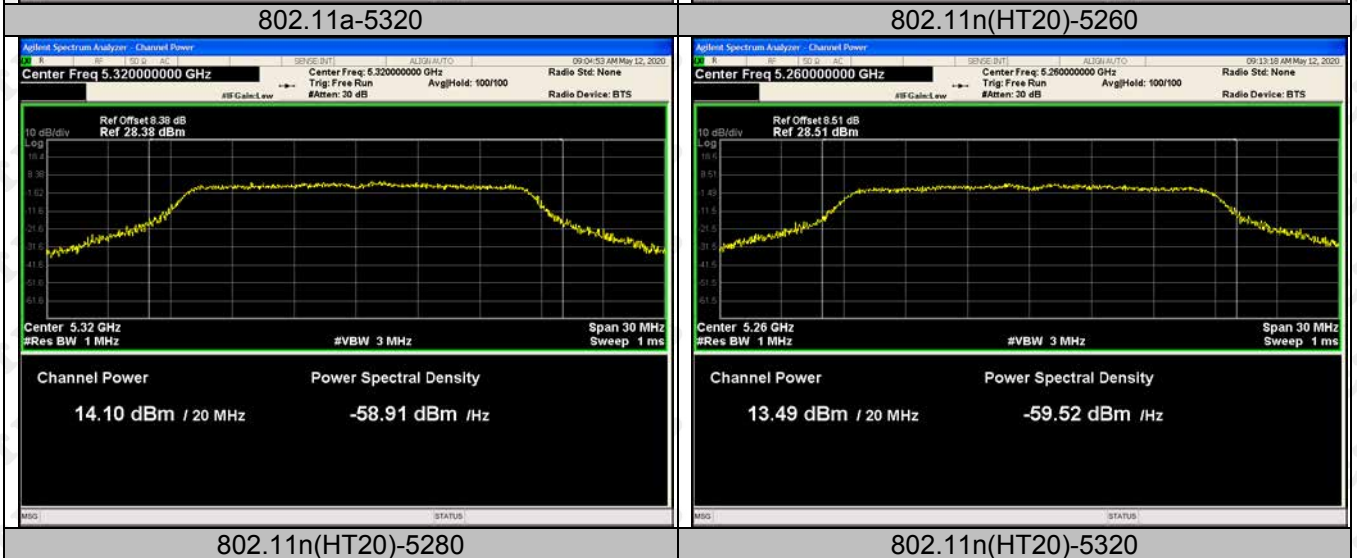
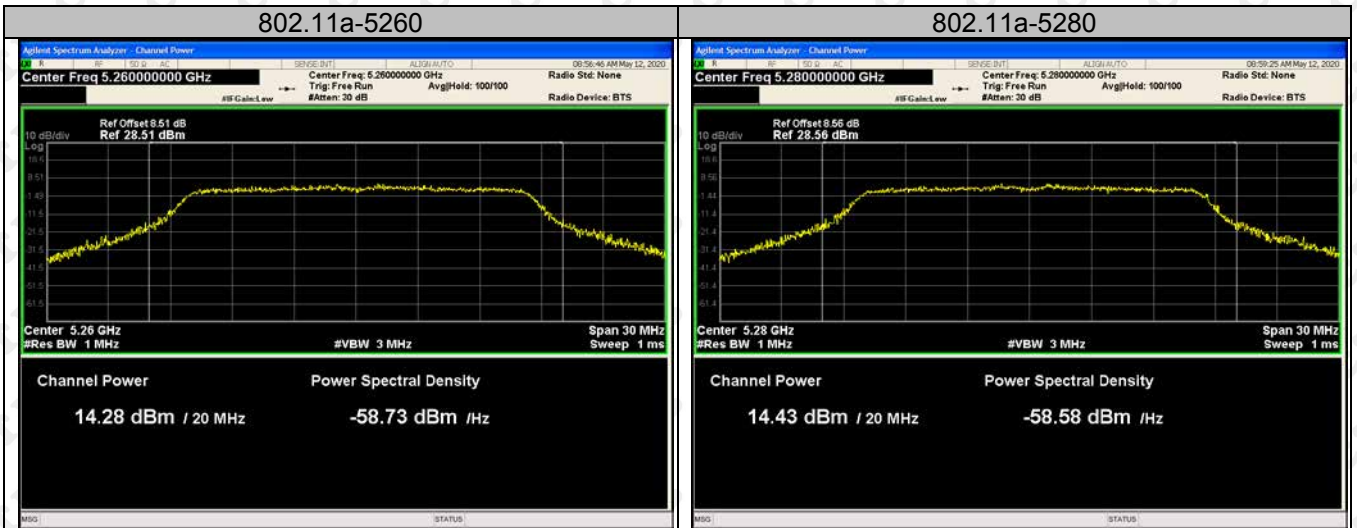
Test Graph
Ant 1
5150-5250MHz





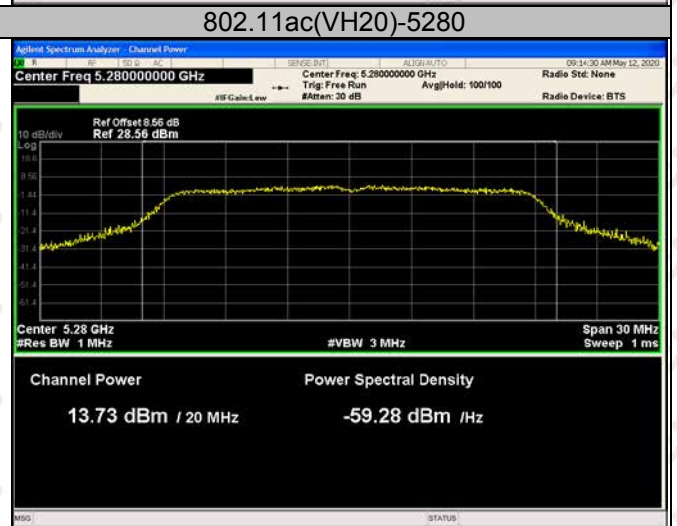
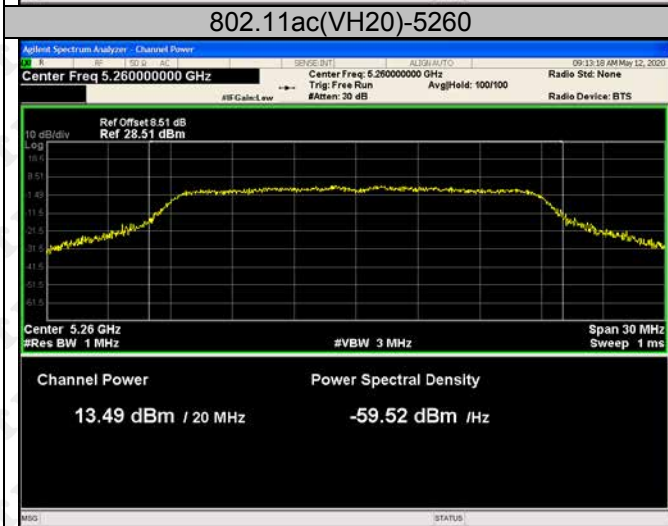
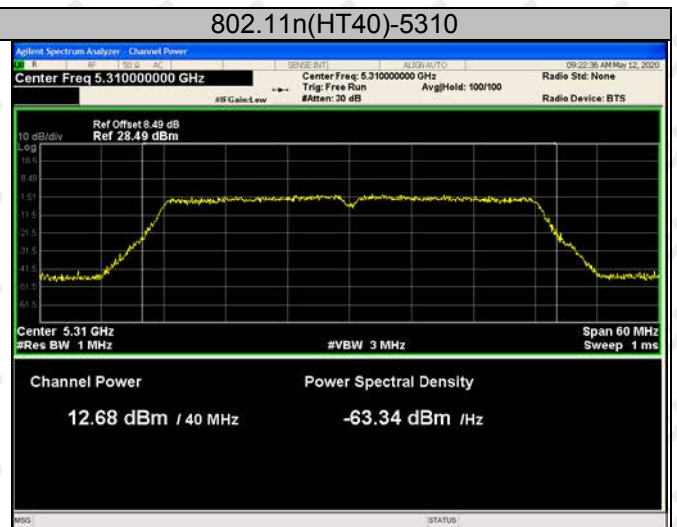
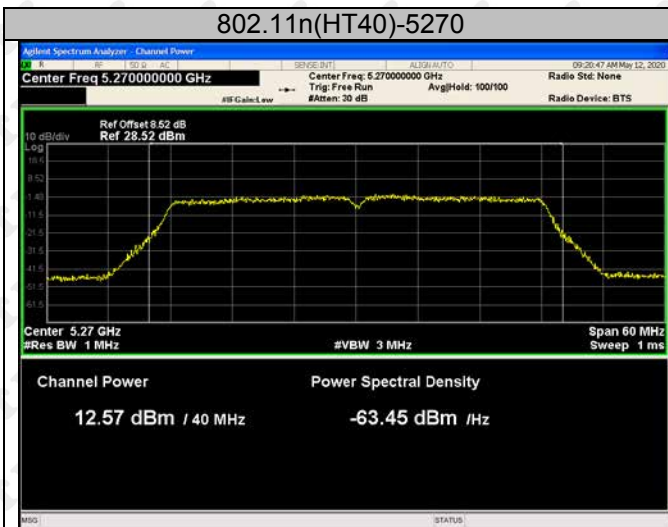
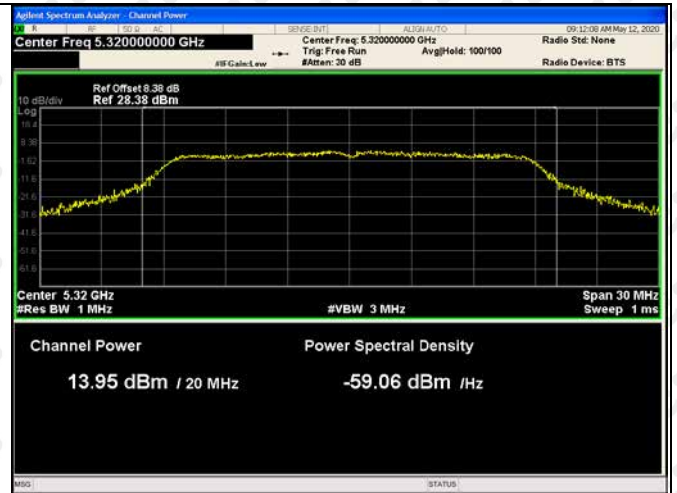
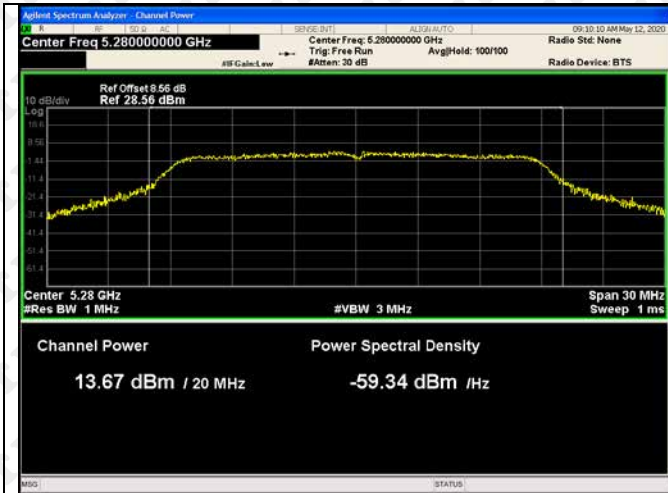


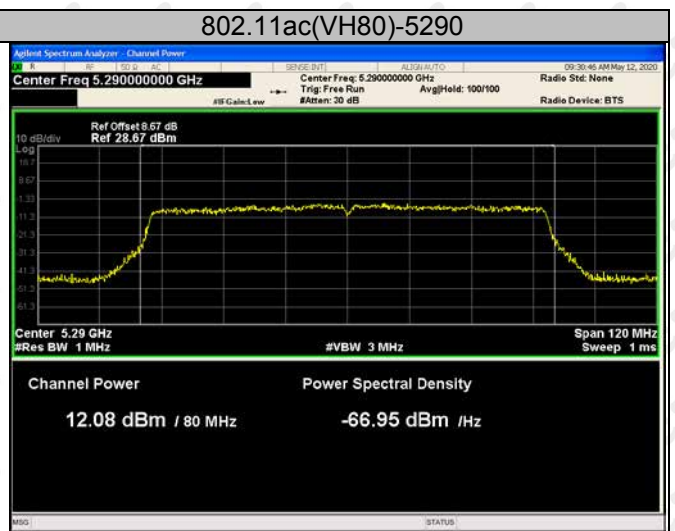
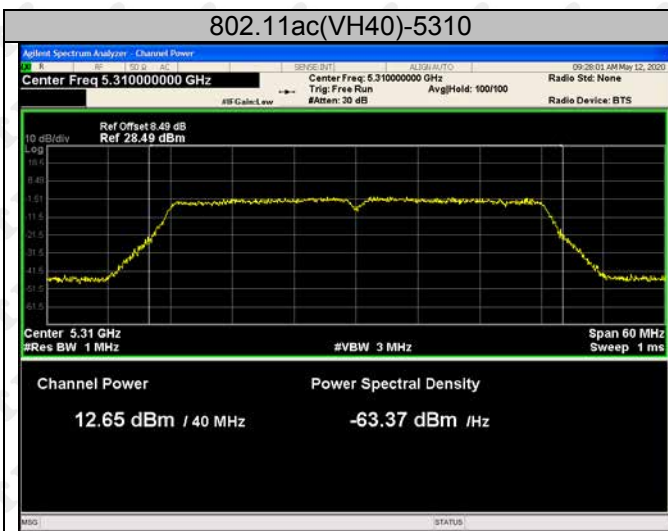
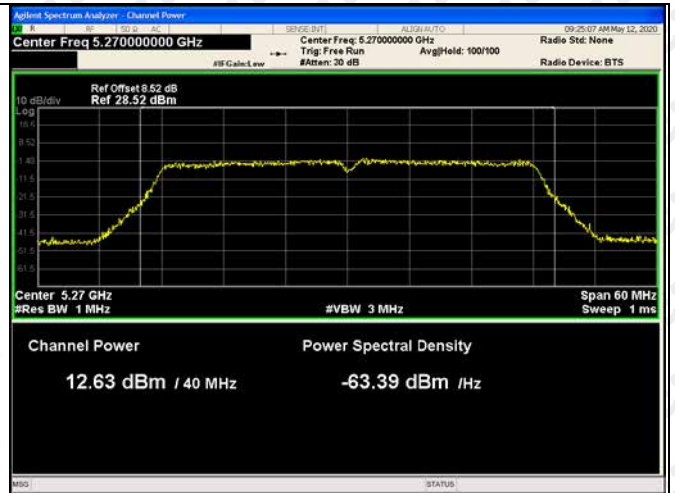
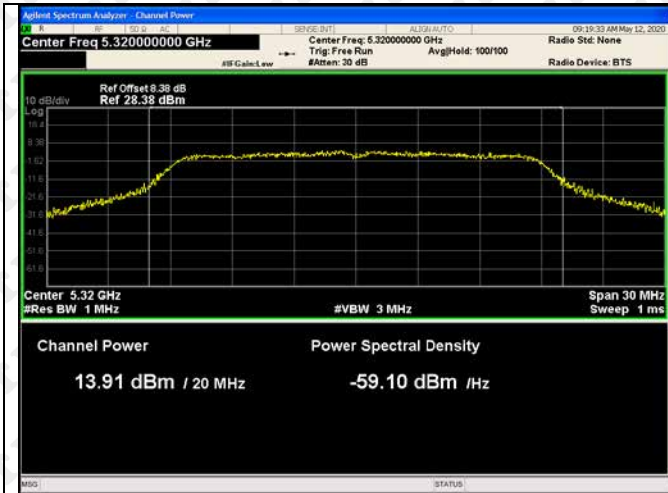
5250-5350MHz



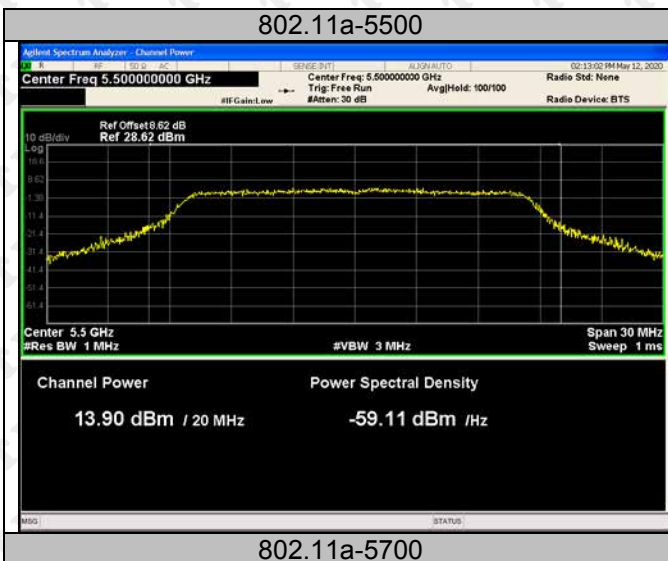
802.11n(HT20)-5280

802.11n(HT20)-5320



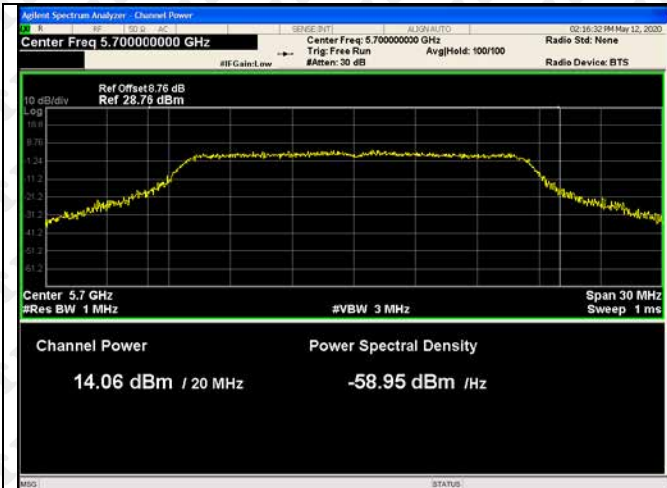


5470-5725MHz



802.11a-5700

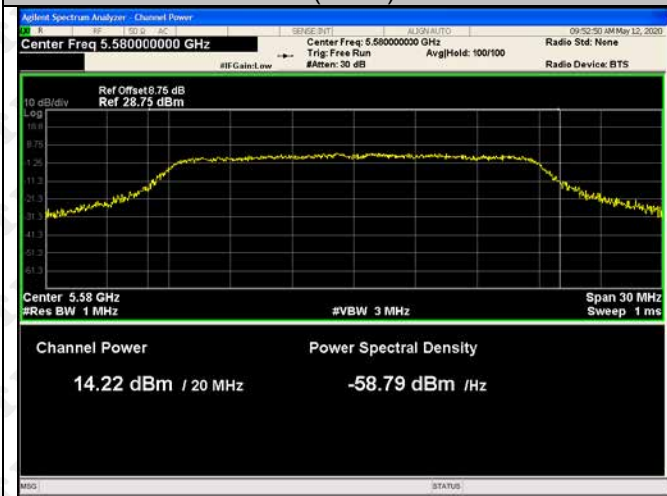
802.11n(HT20)-5500



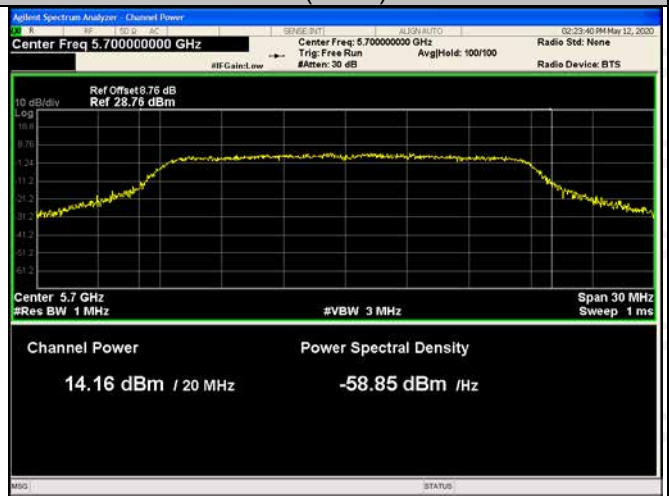
802.11n(HT20)-5580



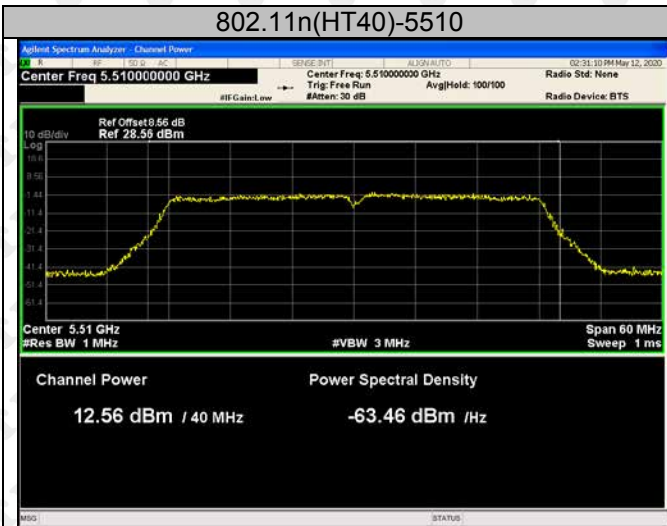
802.11n(HT20)-5700



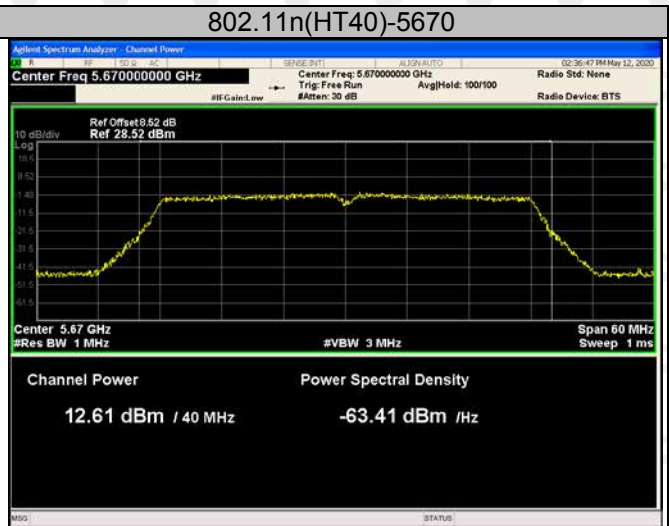
802.11n(HT40)-5510



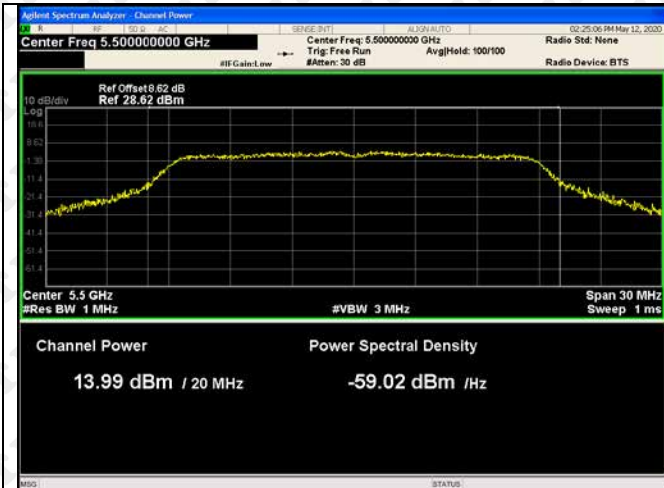
802.11n(HT40)-5670



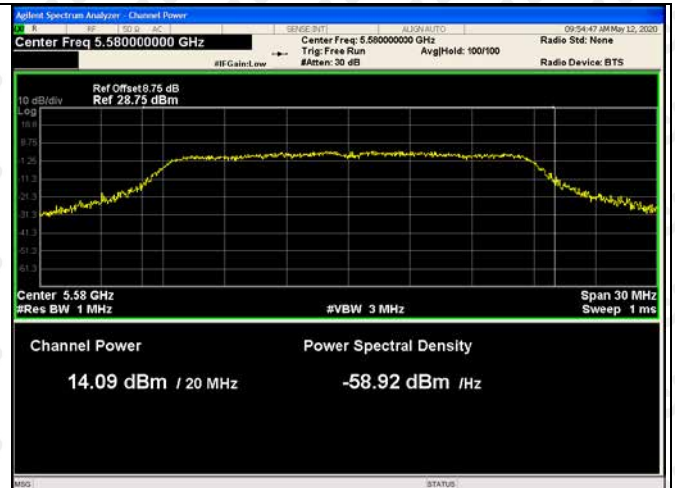
802.11ac(VH20)-5500



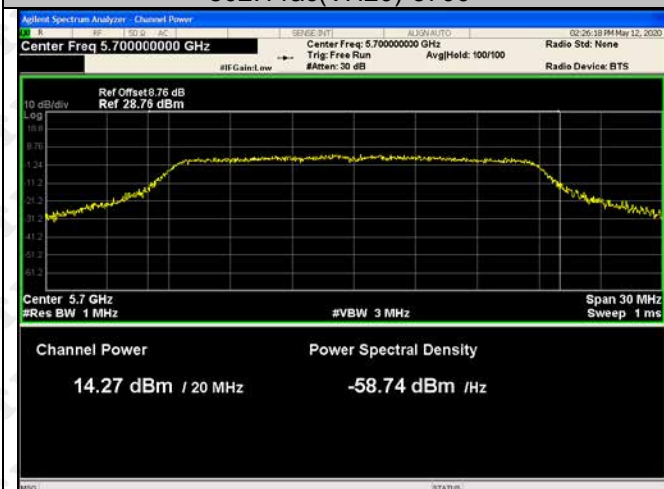
802.11ac(VH20)-5580



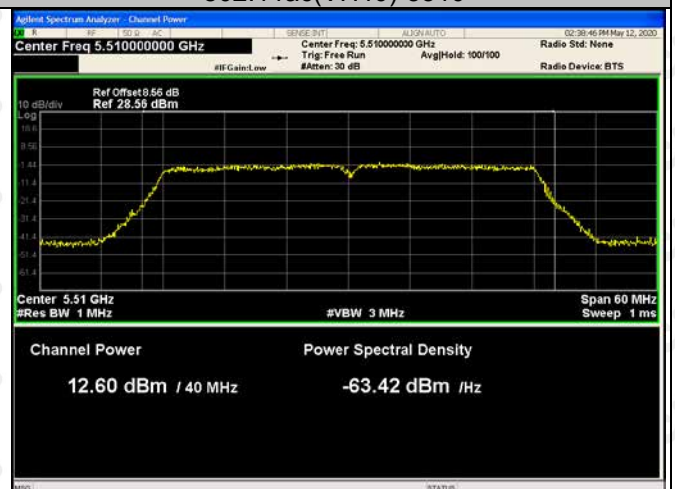
802.11ac(VH20)-5700



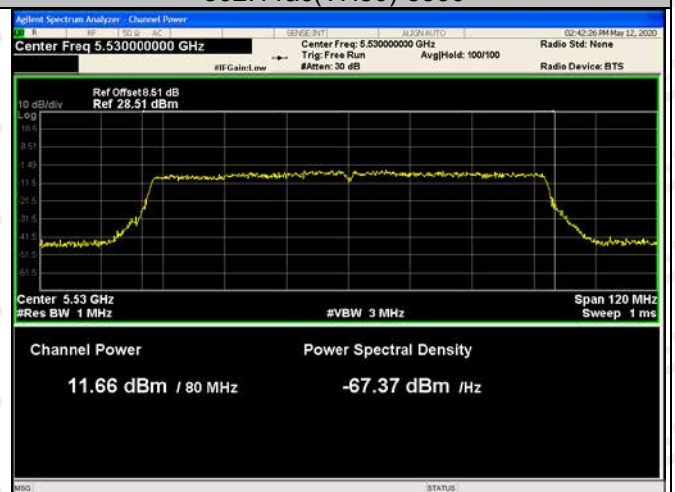
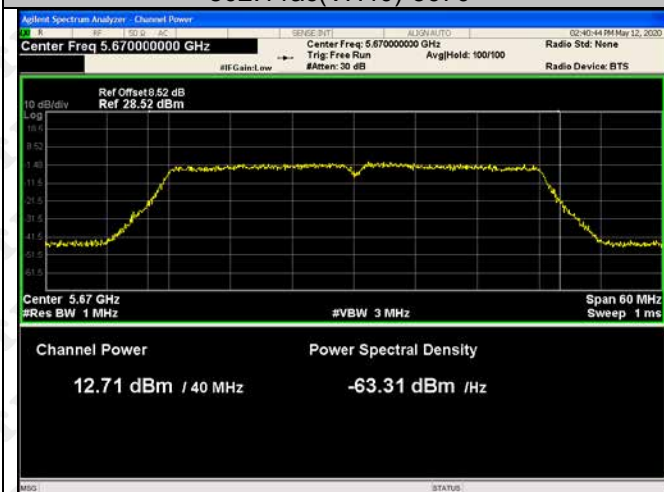
802.11ac(VH40)-5510



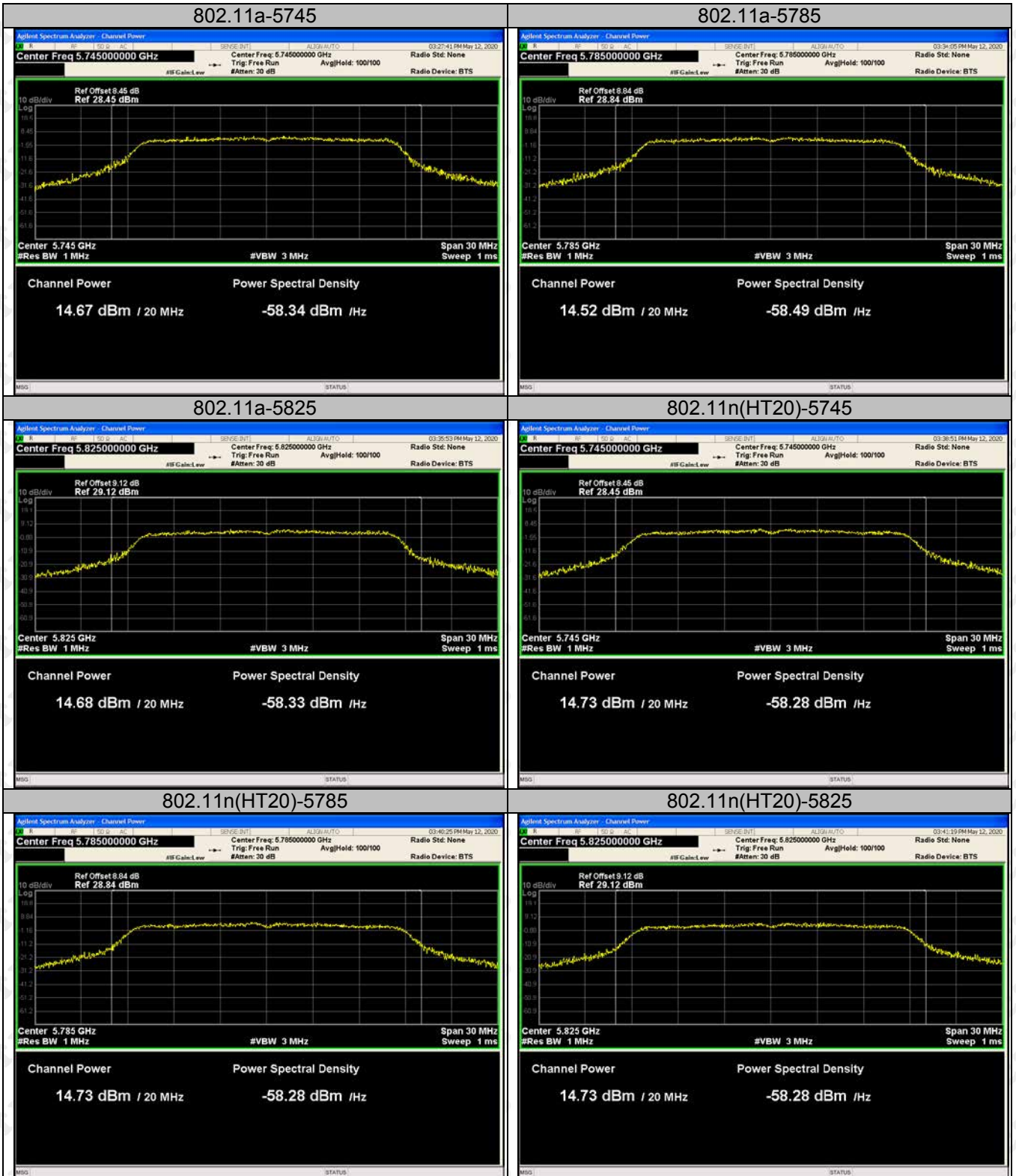
802.11ac(VH40)-5670

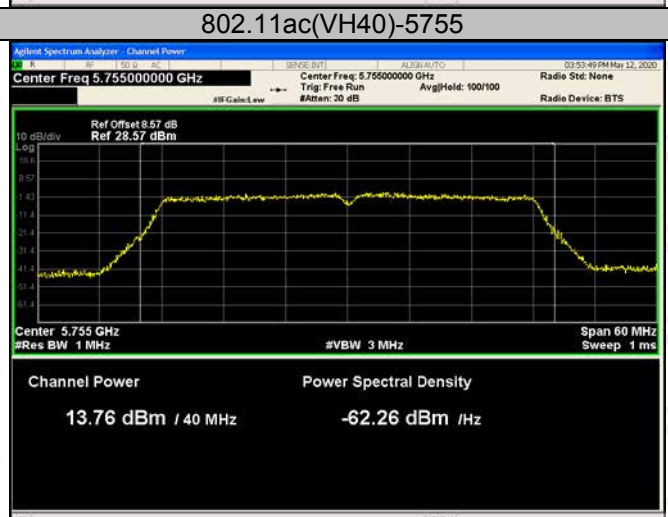
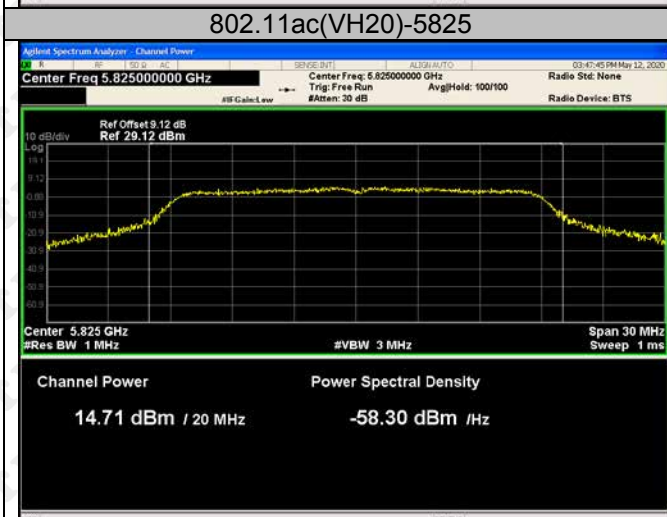
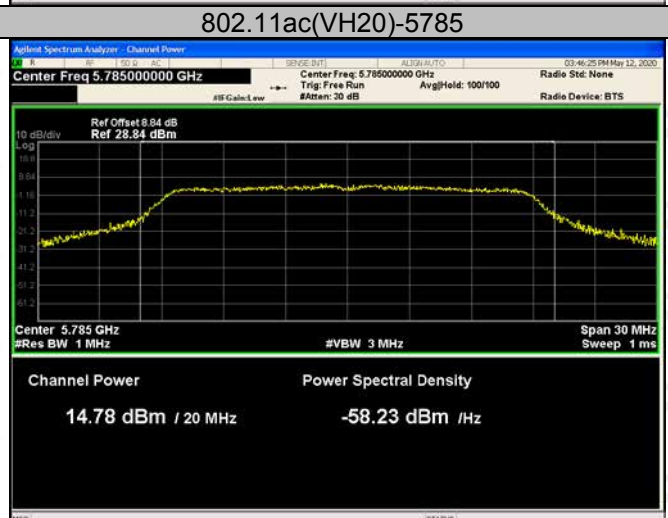
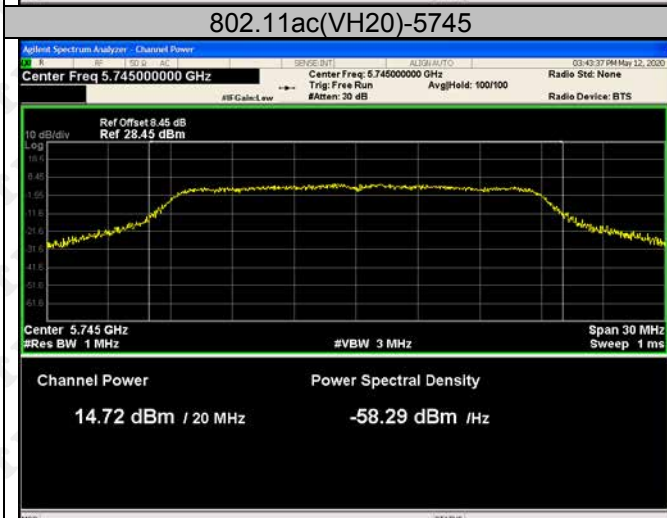
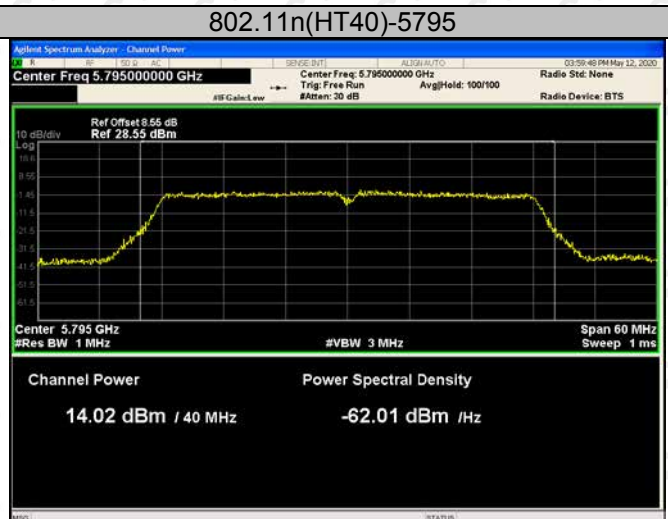


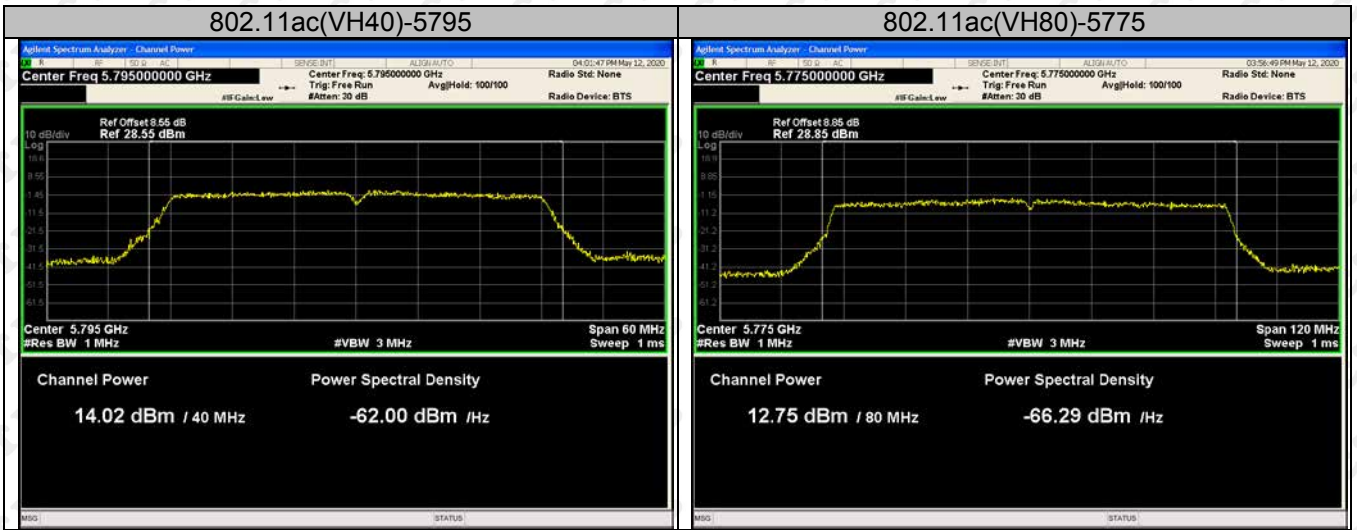
802.11ac(VH80)-5530



5725-5850MHz







Ant 2
5150-5250MHz

