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# Appendix for 5GHz WIFI

**Applicant: Fanvil Technology Co., LTD.**

**Address: 10/F Block A, Dualshine Global Science Innovation Center, Honglang North 2nd Road, Bao'an District, Shenzhen, China**

**Product Name: IP Phone**

**Model: X303W, X301W**

**FCC ID: 2APPZ-OZT**

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# Appendix A1: Emission Bandwidth

**Test Result**

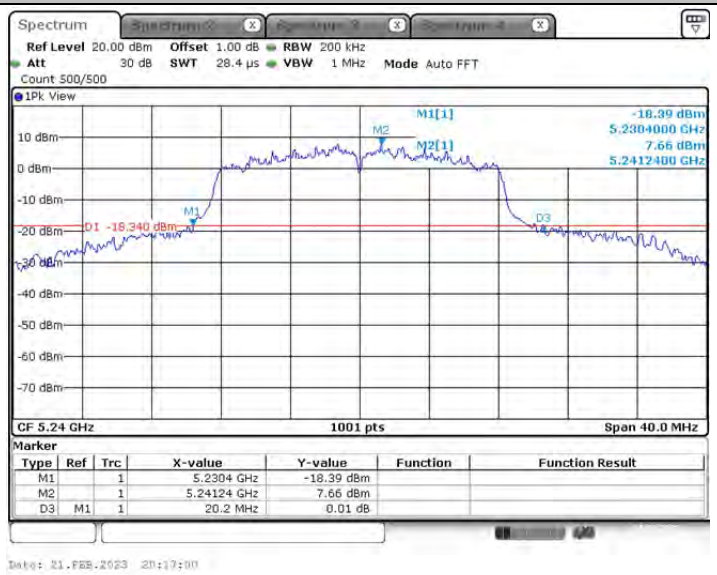
| Test Mode | Channel | 26db EBW [MHz] | FL[MHz] | FH[MHz] | Verdict |
|---|---|---|---|---|---|
| 802.11a | 5180 | 19.12 | 5169.96 | 5189.08 | PASS |
| | 5200 | 25.84 | 5188.92 | 5214.76 | PASS |
| | 5240 | 20.20 | 5230.40 | 5250.60 | PASS |
| | 5745 | 18.68 | 5735.60 | 5754.28 | PASS |
| | 5785 | 20.96 | 5775.20 | 5796.16 | PASS |
| | 5825 | 25.24 | 5813.92 | 5839.16 | PASS |
| 802.11n(HT20) | 5180 | 21.36 | 5170.12 | 5191.48 | PASS |
| | 5200 | 21.48 | 5189.84 | 5211.32 | PASS |
| | 5240 | 21.08 | 5230.20 | 5251.28 | PASS |
| | 5745 | 20.04 | 5735.20 | 5755.24 | PASS |
| | 5785 | 19.72 | 5775.20 | 5794.92 | PASS |
| | 5825 | 25.44 | 5814.28 | 5839.72 | PASS |
| 802.11n(HT40) | 5190 | 38.24 | 5170.96 | 5209.20 | PASS |
| | 5230 | 38.16 | 5210.88 | 5249.04 | PASS |
| | 5755 | 38.00 | 5735.88 | 5773.88 | PASS |
| | 5795 | 49.92 | 5775.88 | 5825.80 | PASS |
| 802.11ac(VHT20) | 5180 | 24.48 | 5169.32 | 5193.80 | PASS |
| | 5200 | 23.48 | 5188.44 | 5211.92 | PASS |
| | 5240 | 27.40 | 5227.44 | 5254.84 | PASS |
| | 5745 | 19.84 | 5735.16 | 5755.00 | PASS |
| | 5785 | 19.32 | 5775.48 | 5794.80 | PASS |
| | 5825 | 25.96 | 5813.16 | 5839.12 | PASS |
| 802.11ac(VHT40) | 5190 | 40.96 | 5169.20 | 5210.16 | PASS |
| | 5230 | 40.16 | 5209.36 | 5249.52 | PASS |
| | 5755 | 41.28 | 5735.00 | 5776.28 | PASS |
| | 5795 | 39.84 | 5775.32 | 5815.16 | PASS |

## Test Graphs

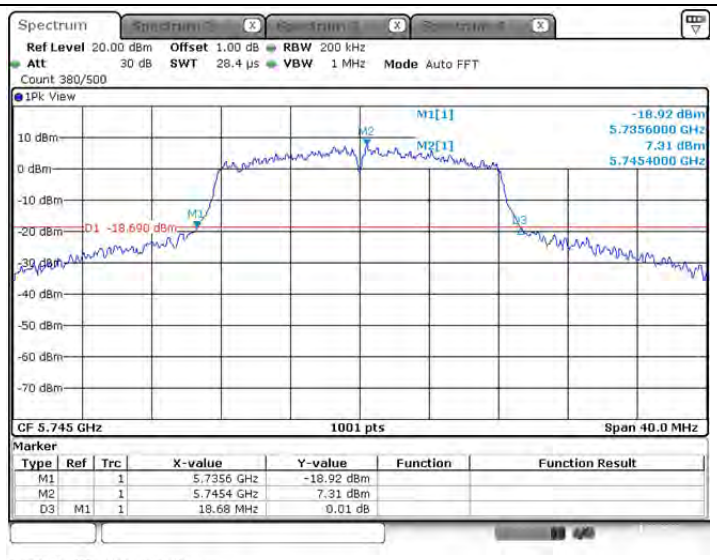
802.11a_5180


802.11a_5200

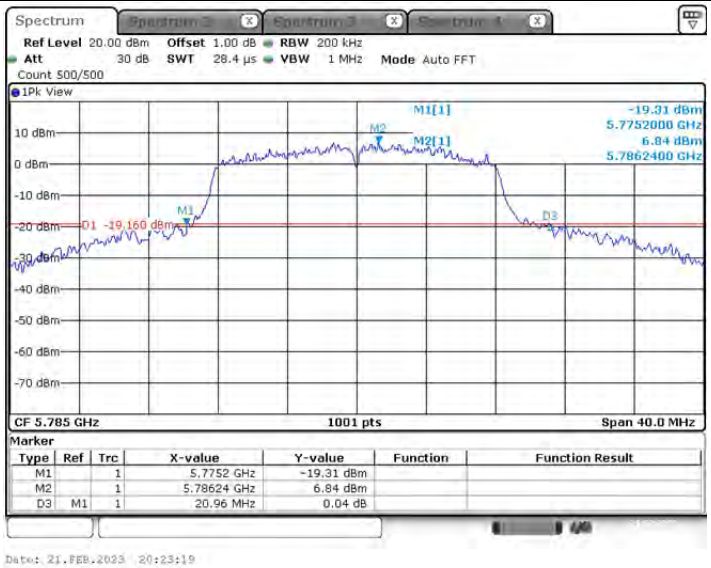

802.11a_5240



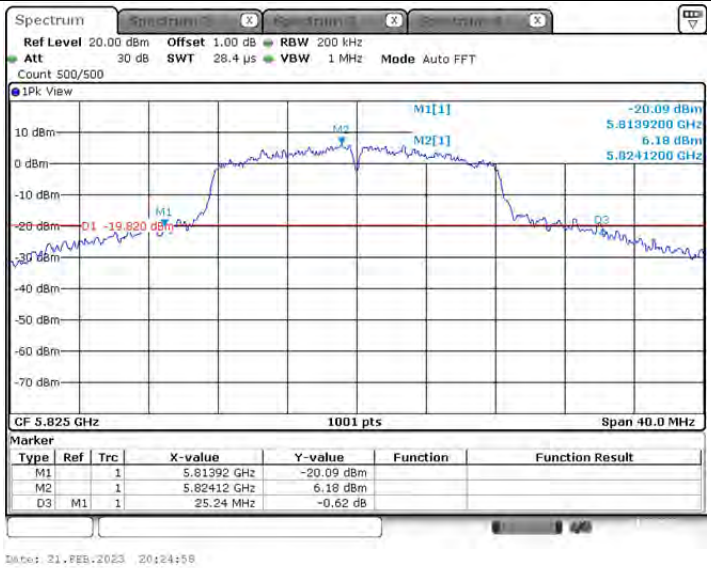

802.11a_5745



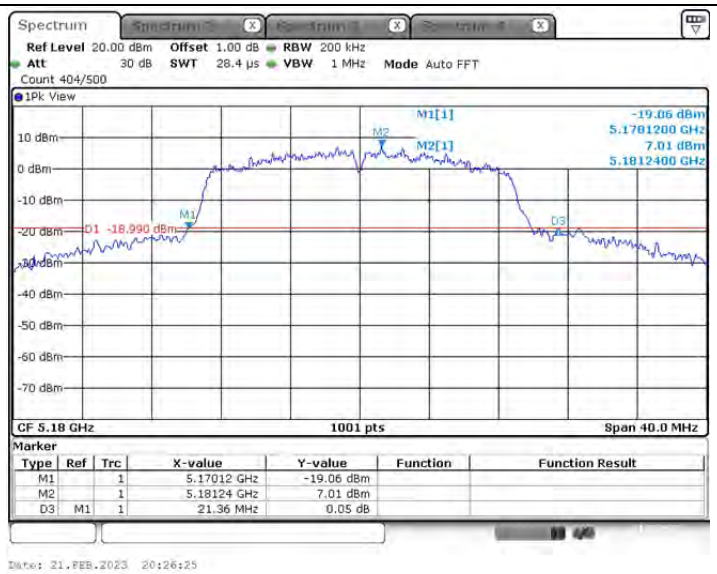

802.11a_5785




802.11a_5825

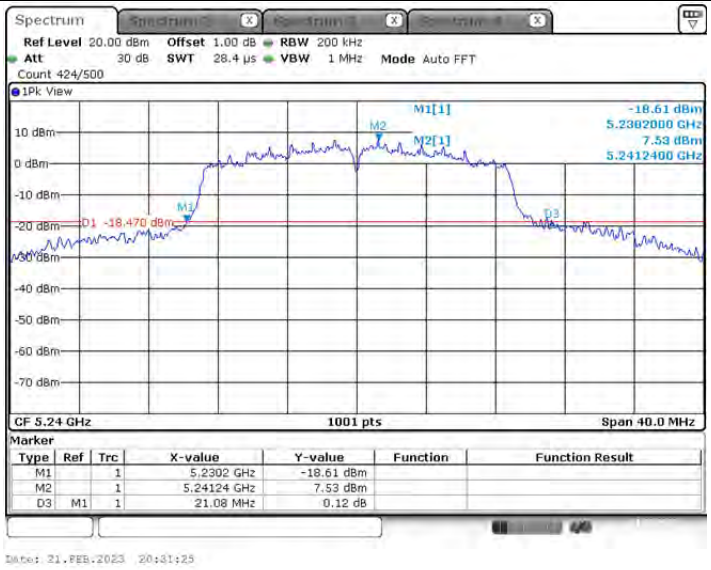



802.11n(HT20)_5180

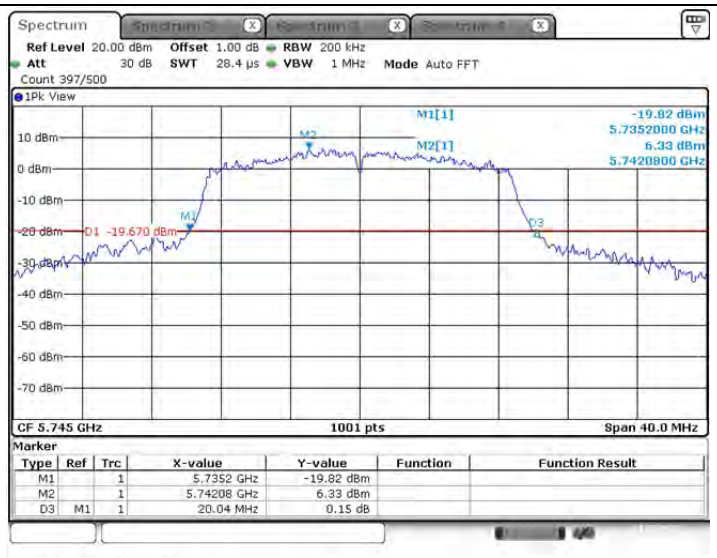



802.11n(HT20)_5200

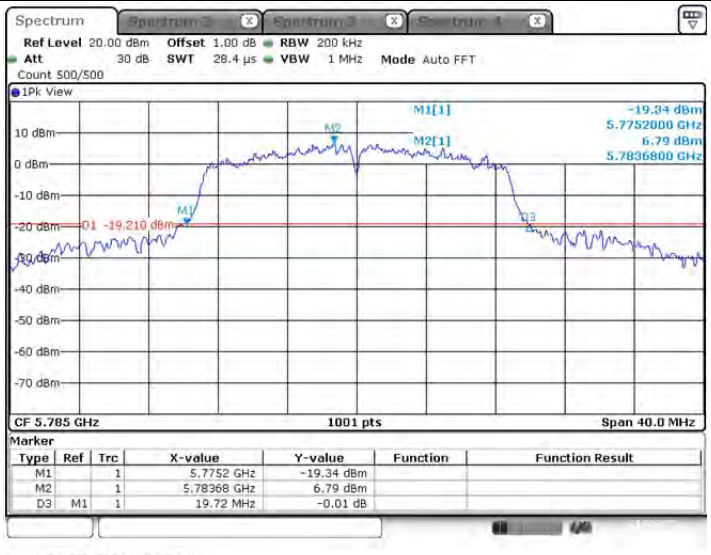

802.11n(HT20)_5240



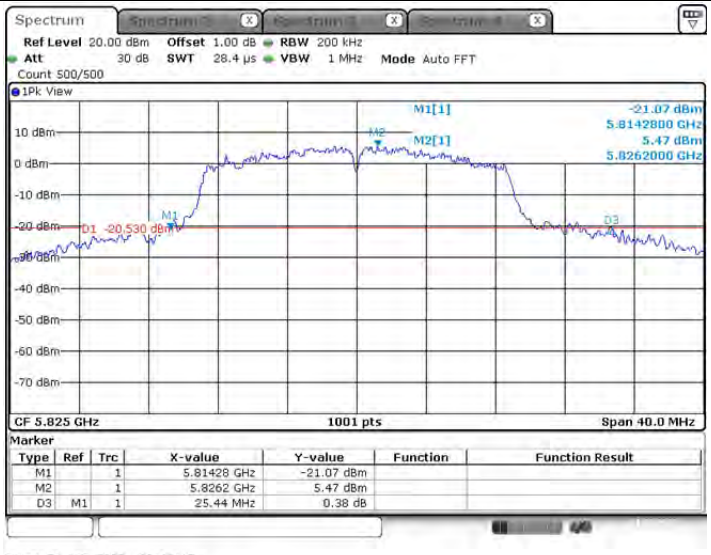

802.11n(HT20)_5745



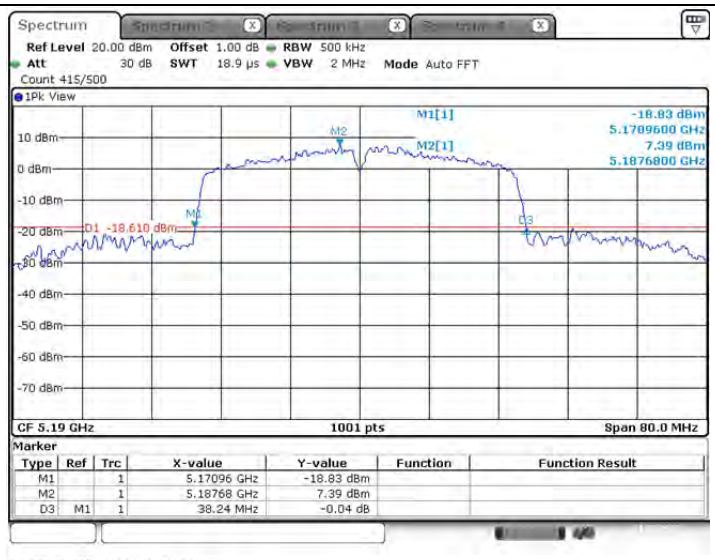

802.11n(HT20)_5785



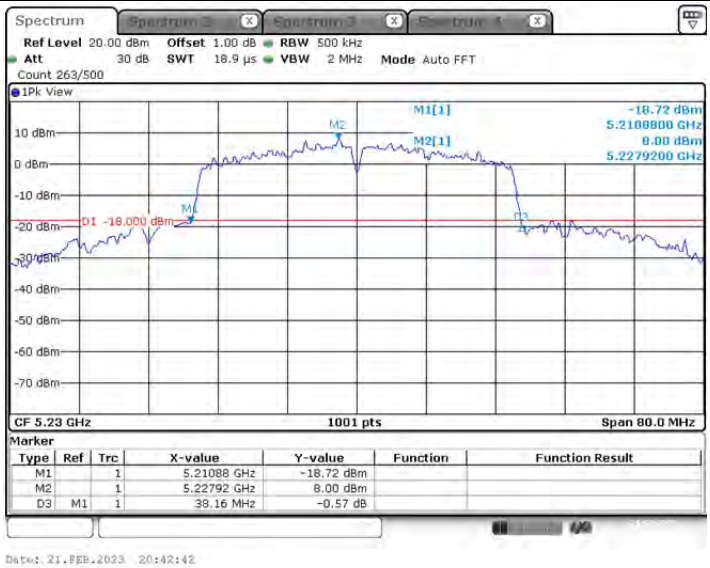

802.11n(HT20)_5825



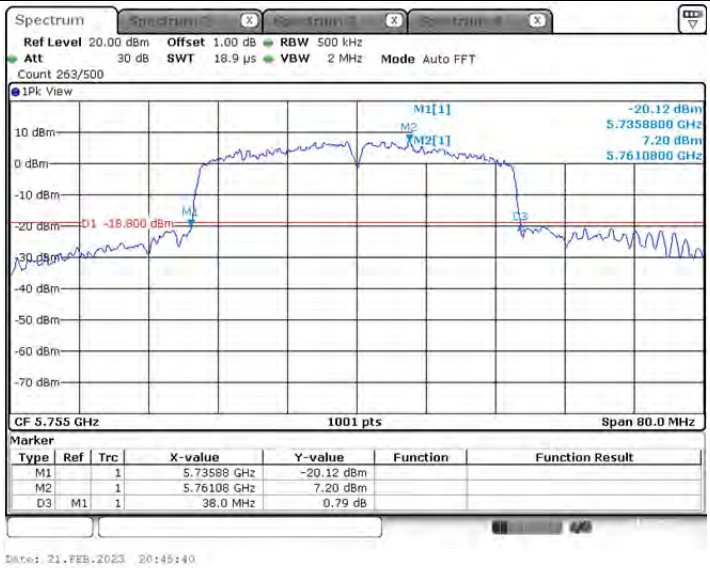

802.11n(HT40)_5190



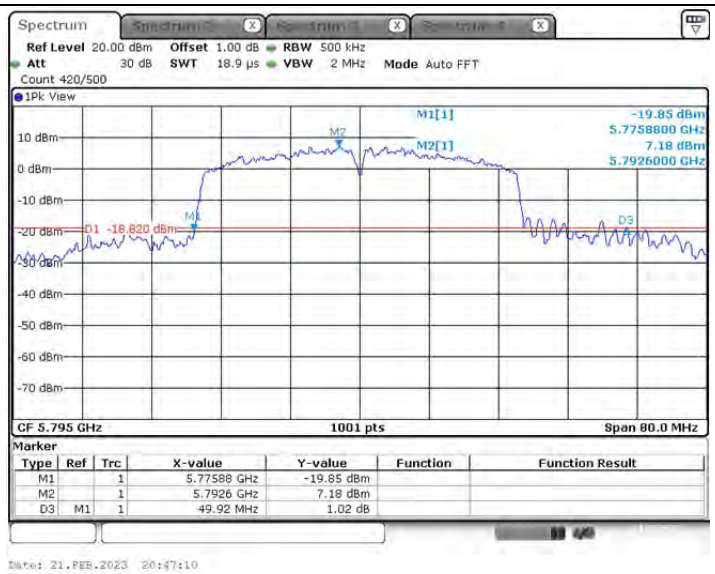

802.11n(HT40)_5230



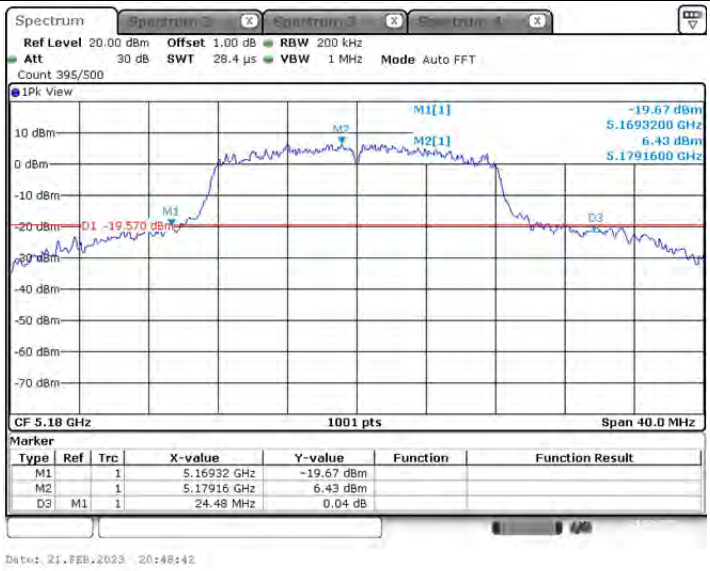

802.11n(HT40)_5755



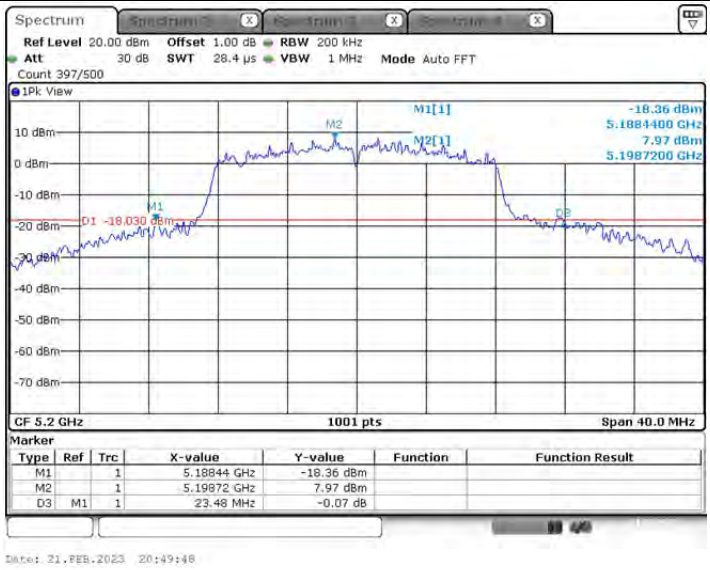

802.11n(HT40)_5795



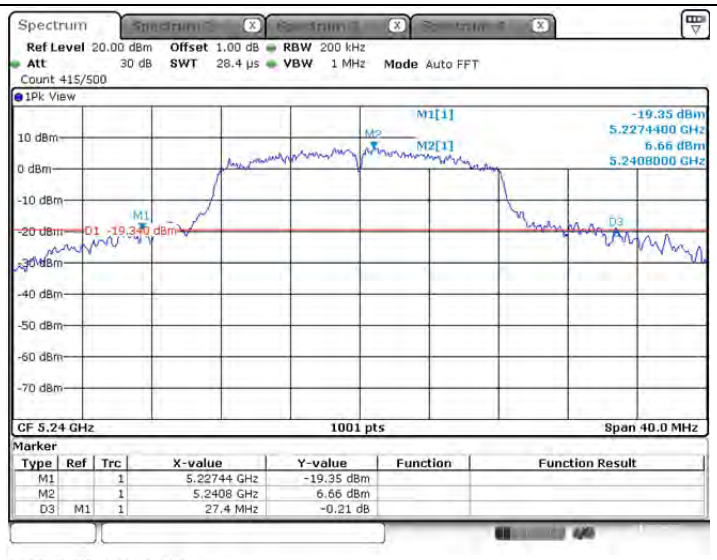

802.11ac(VHT20)_5180




802.11ac(VHT20)_5200



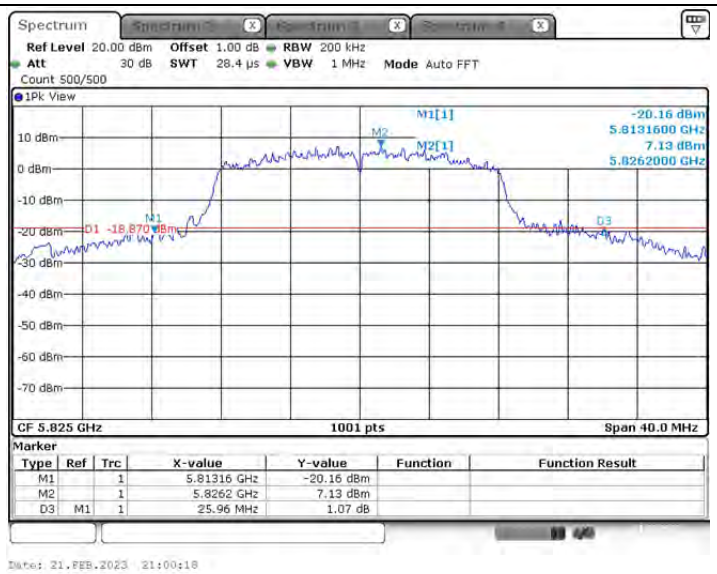

802.11ac(VHT20)_5240



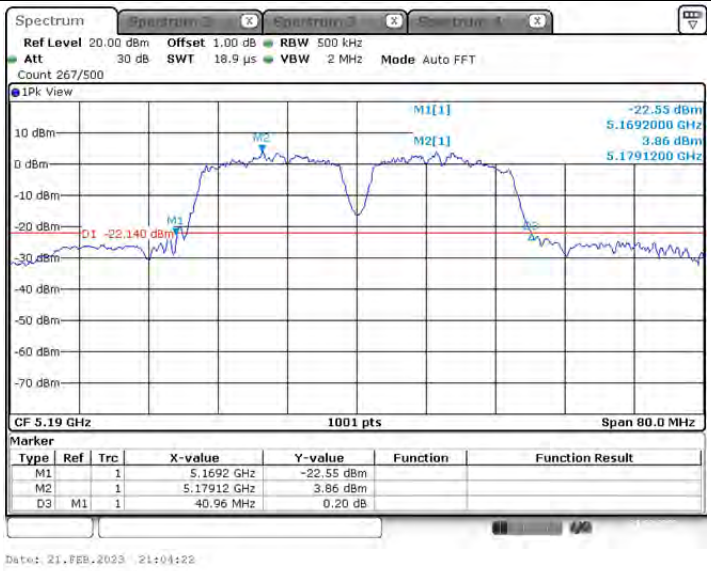

802.11ac(VHT20)_5745


802.11ac(VHT20)_5785

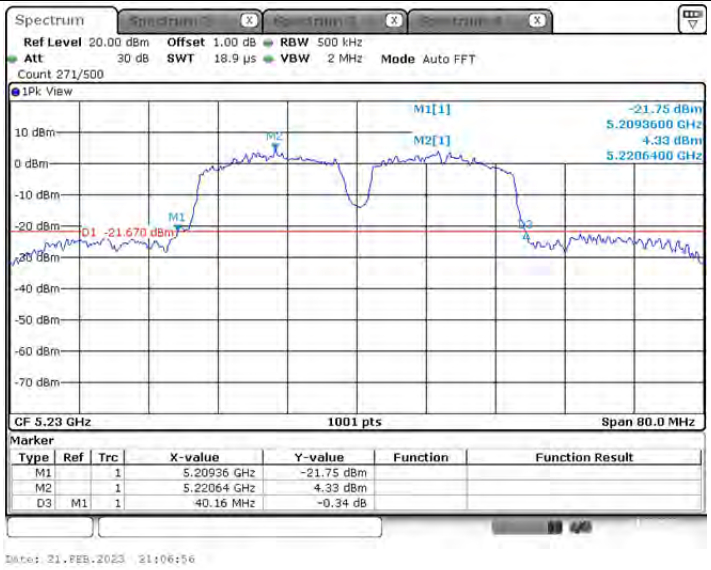

802.11ac(VHT20)_5825



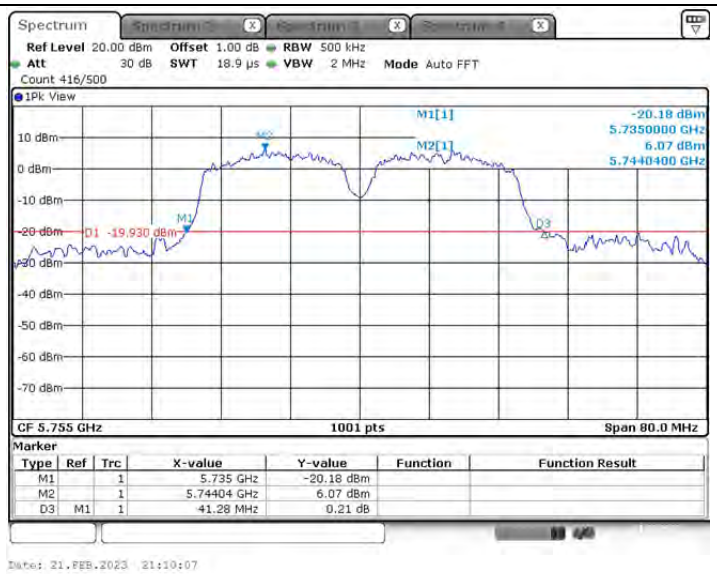

802.11ac(VHT40)_5190



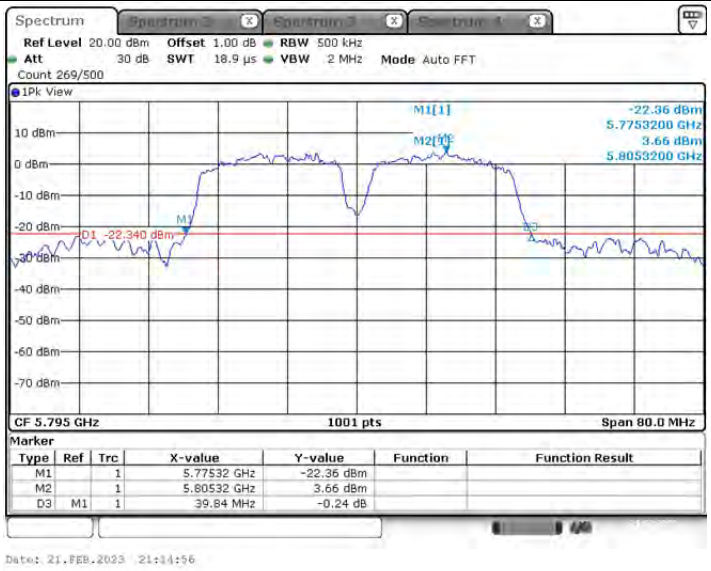

802.11ac(VHT40)_5230




802.11ac(VHT40)_5755




802.11ac(VHT40)_5795



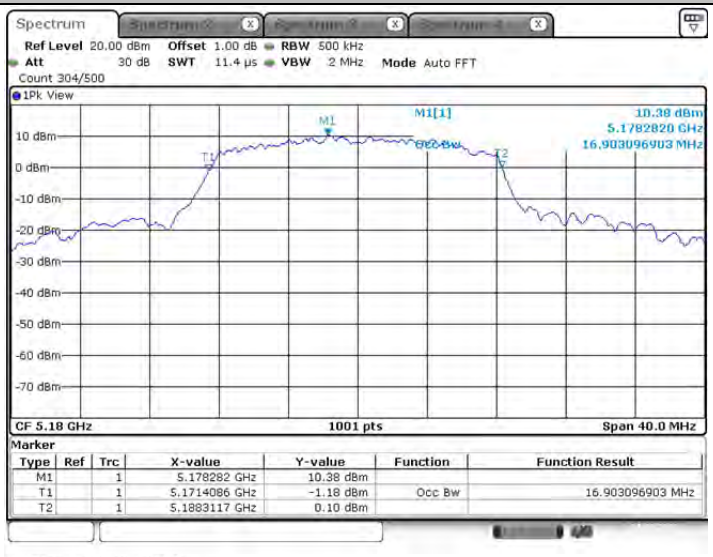
# Appendix A2: Occupied channel bandwidth

**Test Result**

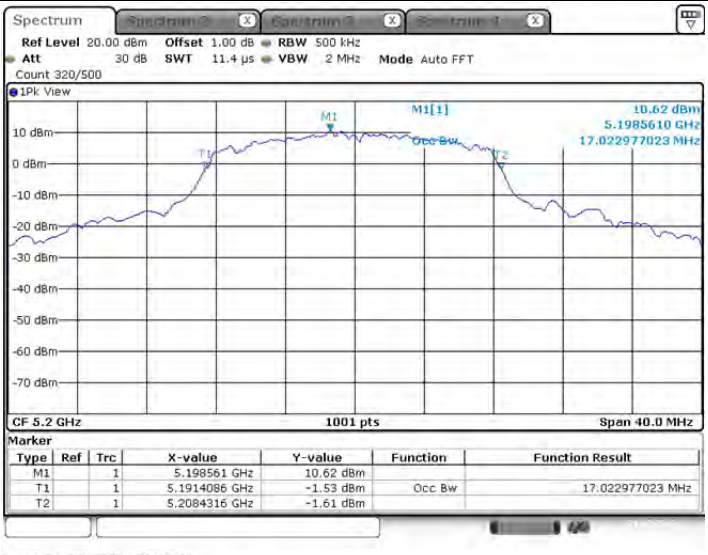
| Test Mode | Channel | OCB [MHz] | FL[MHz] | FH[MHz] | Verdict |
|---|---|---|---|---|---|
| 802.11a | 5180 | 16.903 | 5171.409 | 5188.312 | PASS |
| | 5200 | 17.023 | 5191.409 | 5208.432 | PASS |
| | 5240 | 17.103 | 5231.528 | 5248.631 | PASS |
| | 5745 | 16.623 | 5736.608 | 5753.232 | PASS |
| | 5785 | 16.783 | 5776.568 | 5793.352 | PASS |
| | 5825 | 17.143 | 5816.409 | 5833.551 | PASS |
| 802.11n(HT20) | 5180 | 18.022 | 5171.089 | 5189.111 | PASS |
| | 5200 | 17.982 | 5191.129 | 5209.111 | PASS |
| | 5240 | 18.182 | 5230.969 | 5249.151 | PASS |
| | 5745 | 17.542 | 5736.209 | 5753.751 | PASS |
| | 5785 | 17.942 | 5776.129 | 5794.071 | PASS |
| | 5825 | 17.822 | 5816.129 | 5833.951 | PASS |
| 802.11n(HT40) | 5190 | 35.724 | 5172.098 | 5207.822 | PASS |
| | 5230 | 35.644 | 5212.258 | 5247.902 | PASS |
| | 5755 | 35.724 | 5737.098 | 5772.822 | PASS |
| | 5795 | 35.564 | 5777.258 | 5812.822 | PASS |
| 802.11ac(VHT20) | 5180 | 16.943 | 5171.568 | 5188.511 | PASS |
| | 5200 | 17.103 | 5191.528 | 5208.631 | PASS |
| | 5240 | 17.263 | 5231.329 | 5248.591 | PASS |
| | 5745 | 16.663 | 5736.768 | 5753.432 | PASS |
| | 5785 | 17.023 | 5776.209 | 5793.232 | PASS |
| | 5825 | 17.023 | 5816.528 | 5833.551 | PASS |
| 802.11ac(VHT40) | 5190 | 36.044 | 5171.938 | 5207.982 | PASS |
| | 5230 | 36.044 | 5211.938 | 5247.982 | PASS |
| | 5755 | 36.523 | 5736.538 | 5773.062 | PASS |
| | 5795 | 36.044 | 5776.938 | 5812.982 | PASS |

## Test Graphs

802.11a_5180

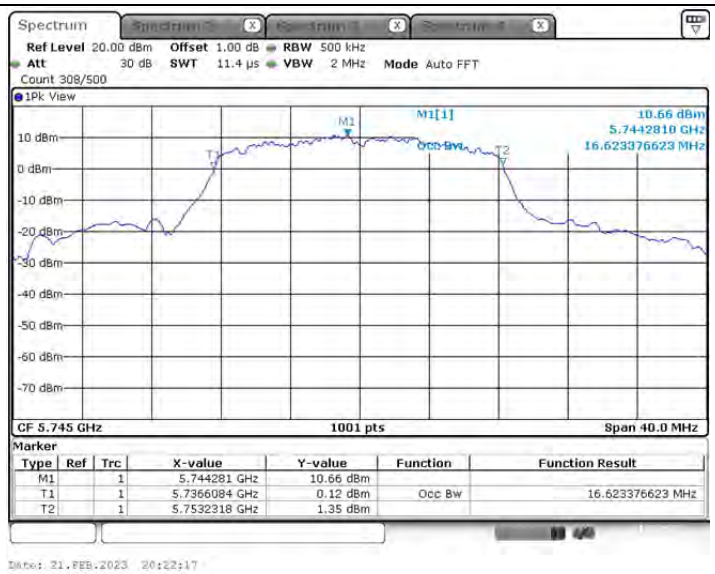



802.11a_5200

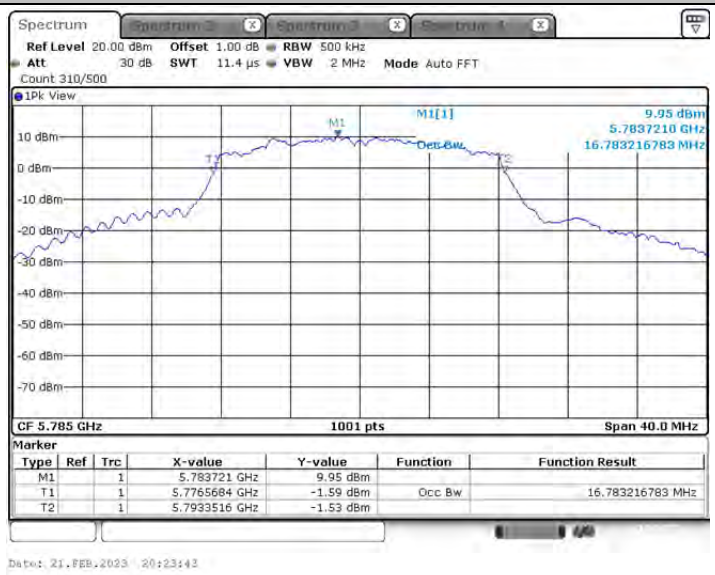



802.11a_5240

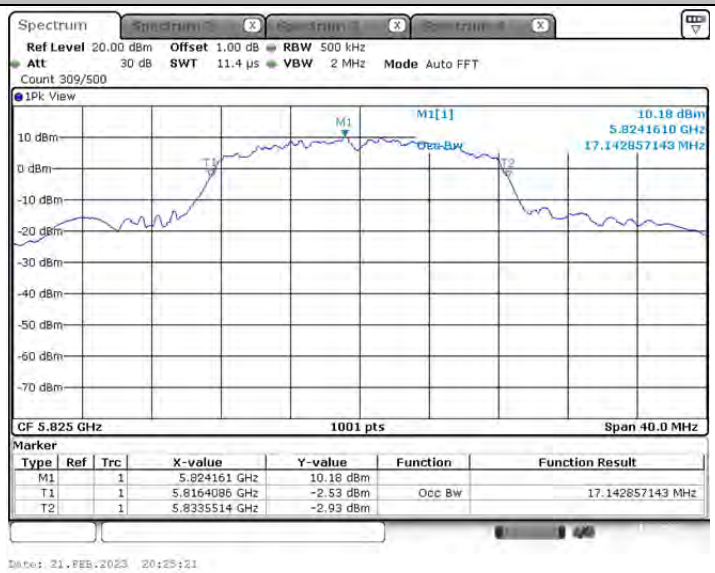

802.11a_5745




802.11a_5785




802.11a_5825



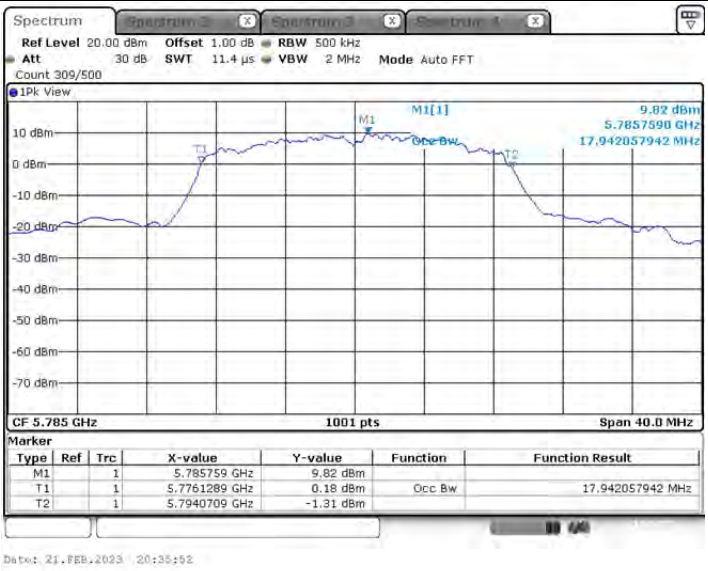

802.11n(HT20)_5180


802.11n(HT20)_5200

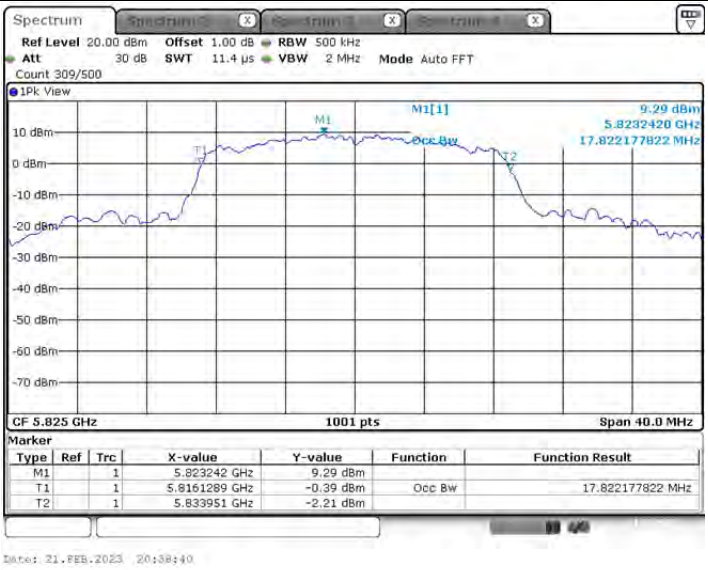

802.11n(HT20)_5240


802.11n(HT20)_5745

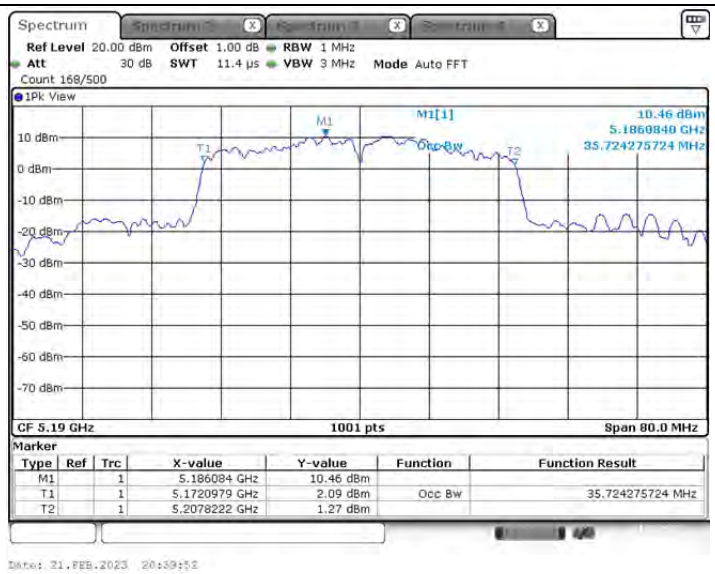

802.11n(HT20)_5785



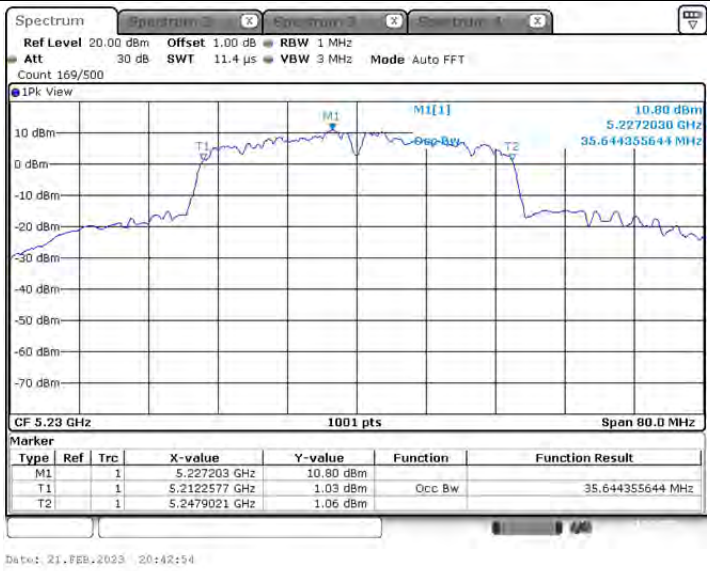

802.11n(HT20)_5825



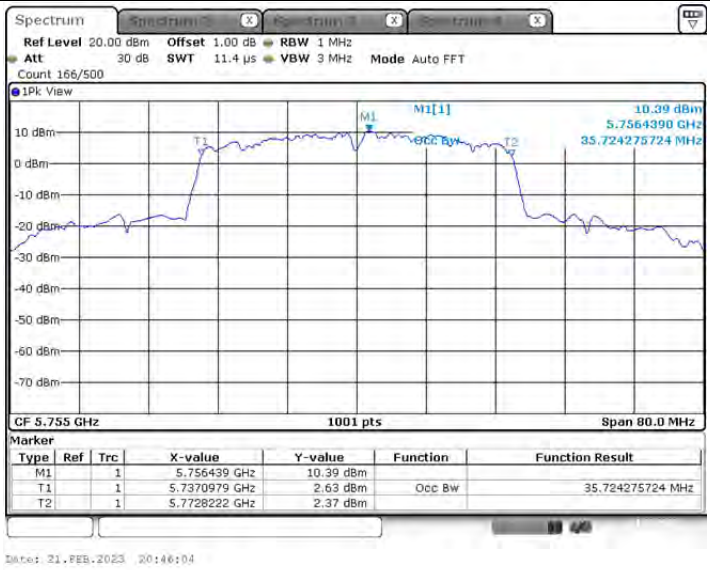

802.11n(HT40)_5190



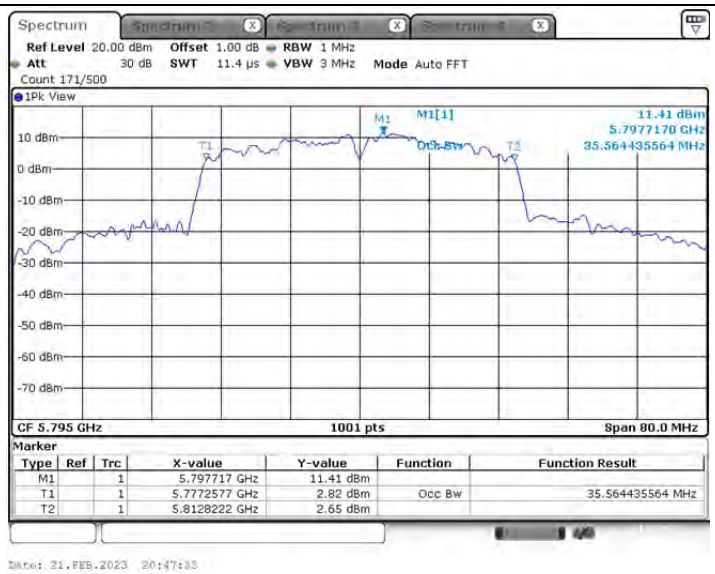

802.11n(HT40)_5230



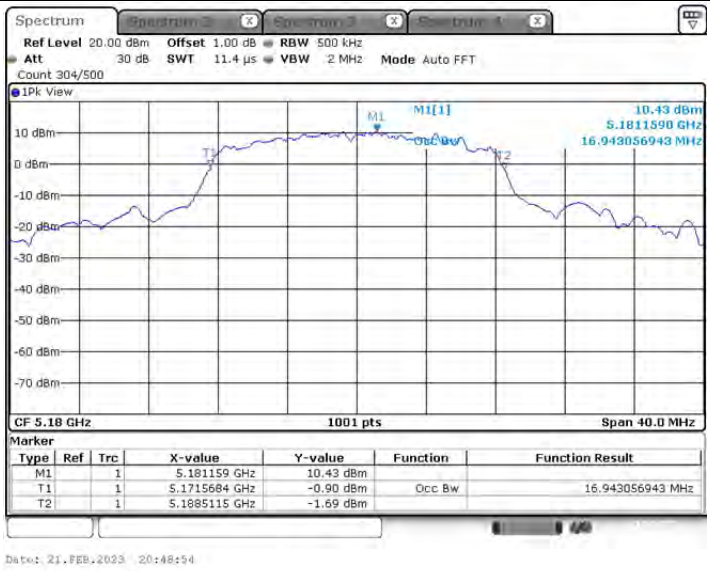

802.11n(HT40)_5755



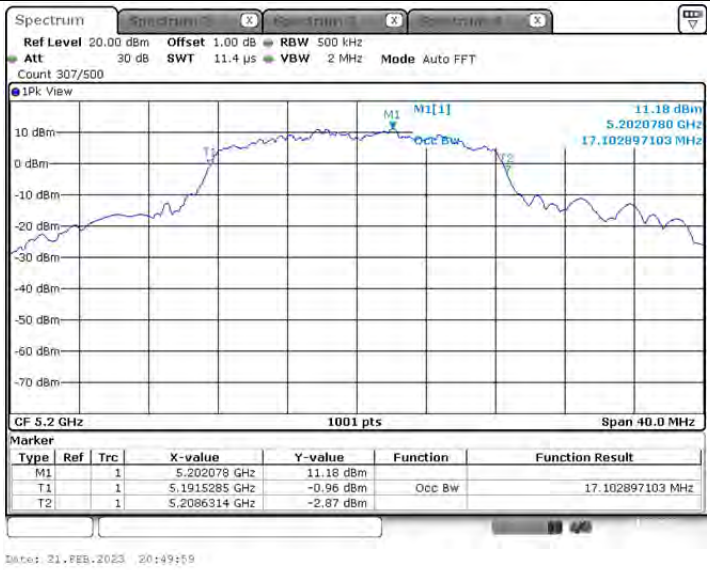

802.11n(HT40)_5795



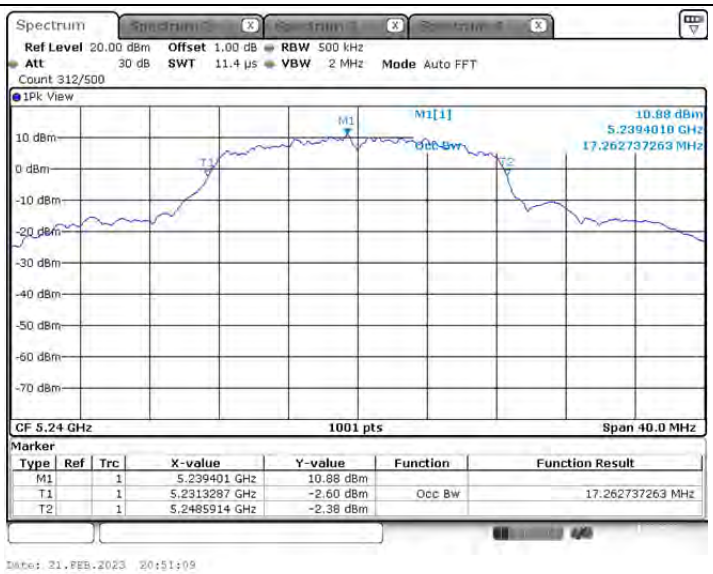

802.11ac(VHT20)_5180



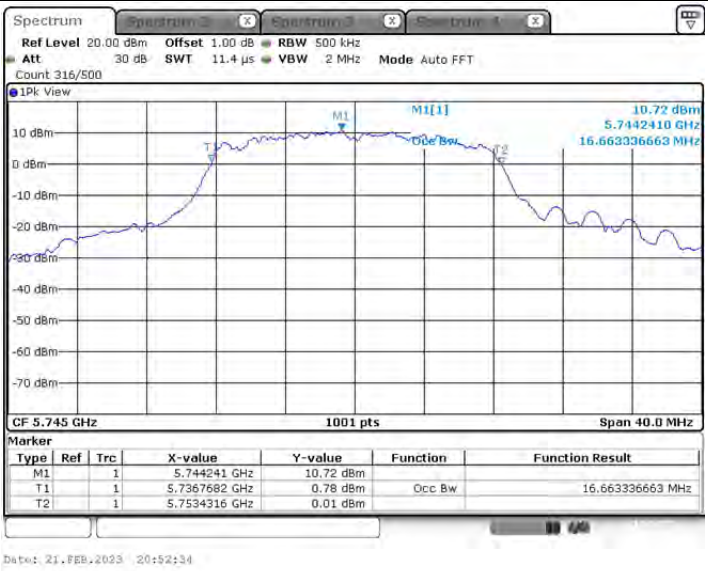

802.11ac(VHT20)_5200



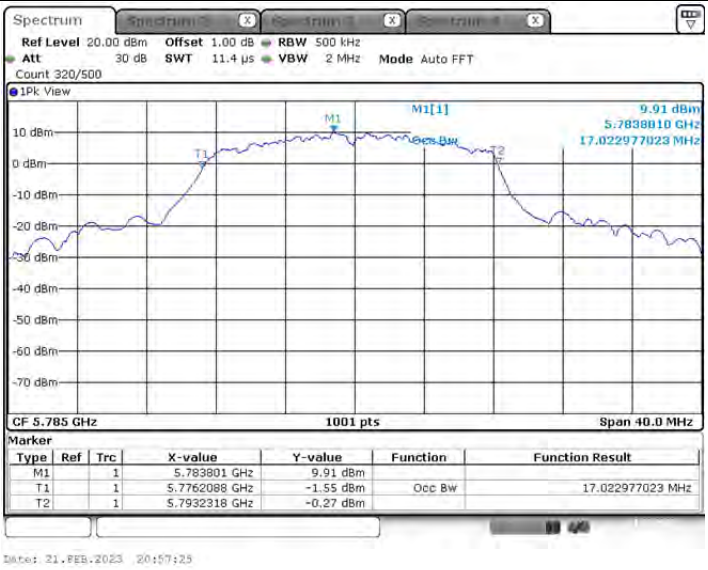

802.11ac(VHT20)_5240



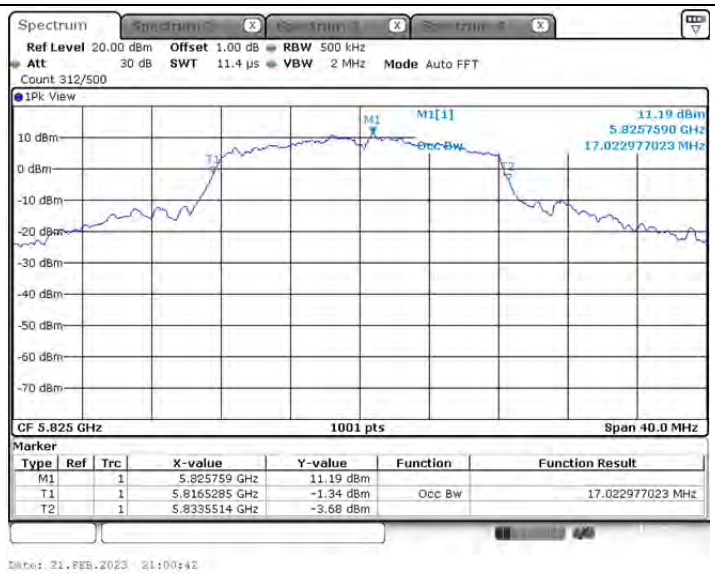

802.11ac(VHT20)_5745



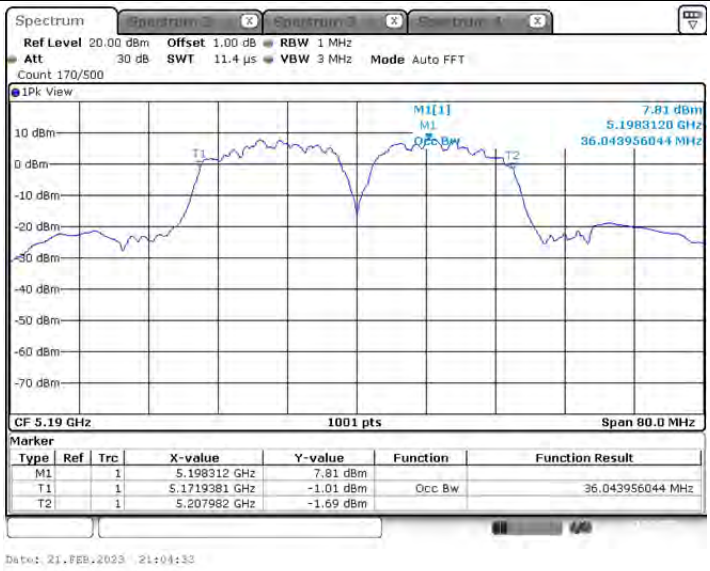

802.11ac(VHT20)_5785



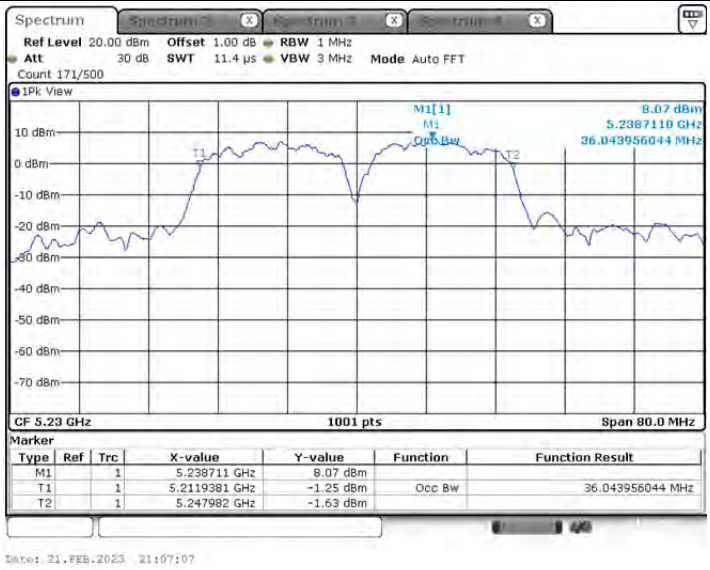

802.11ac(VHT20)_5825



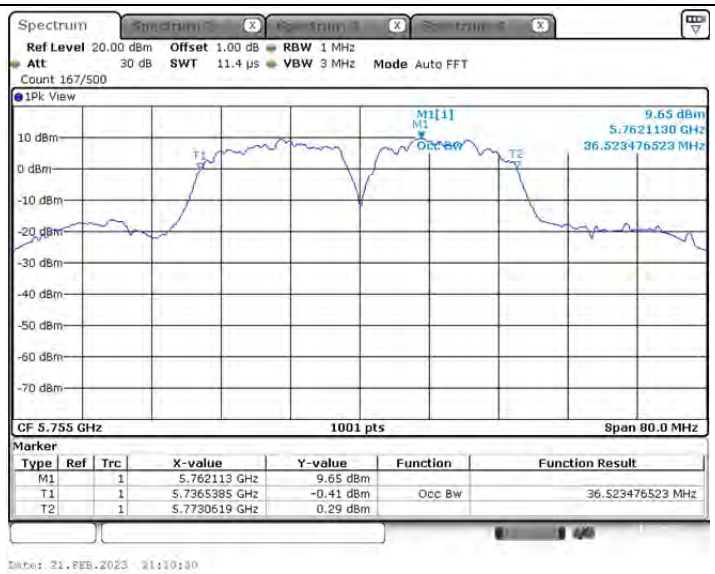

802.11ac(VHT40)_5190



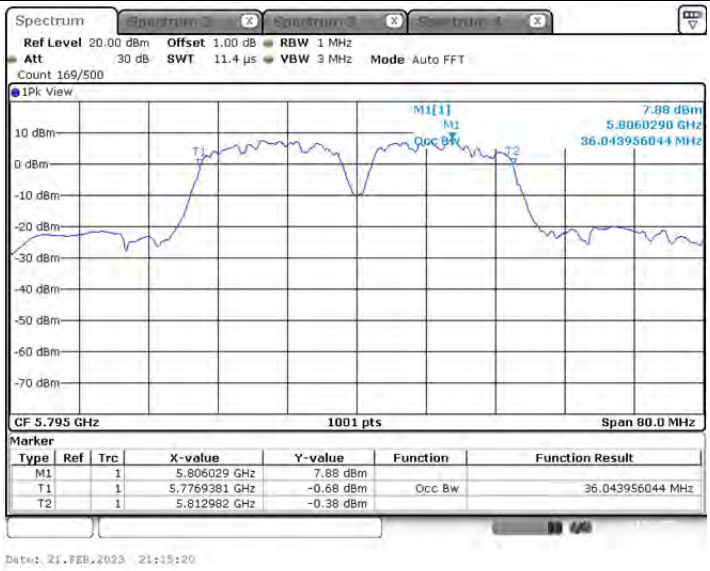

802.11ac(VHT40)_5230




802.11ac(VHT40)_5755




802.11ac(VHT40)_5795

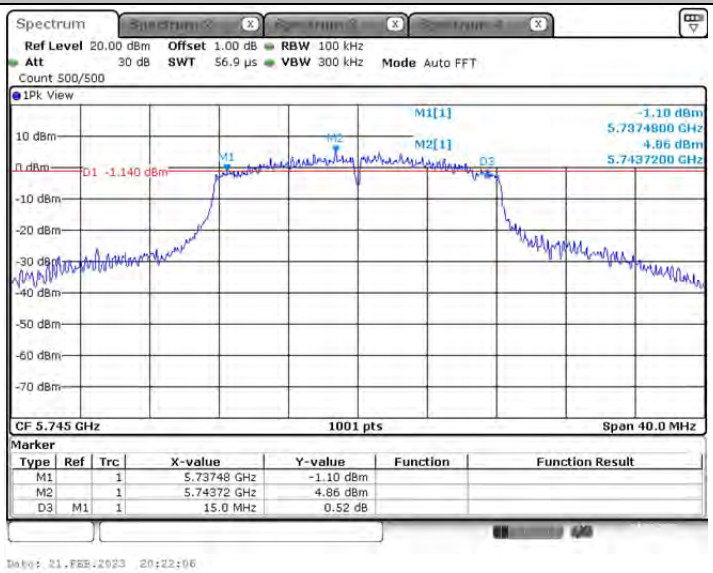
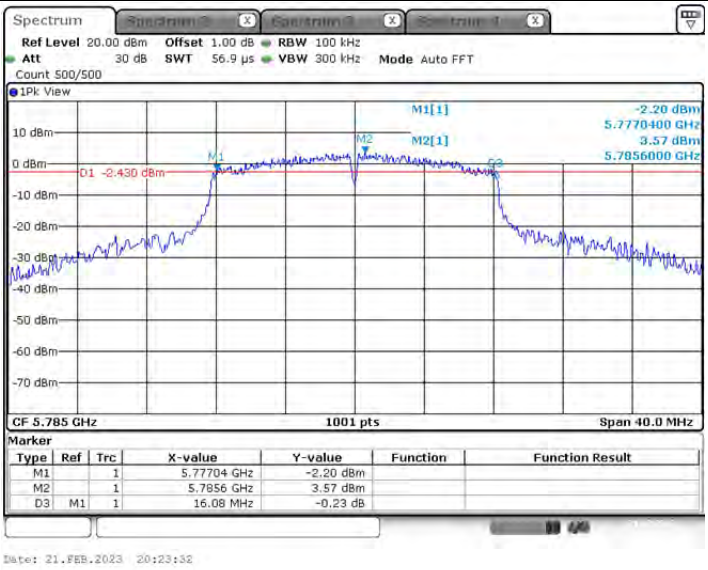
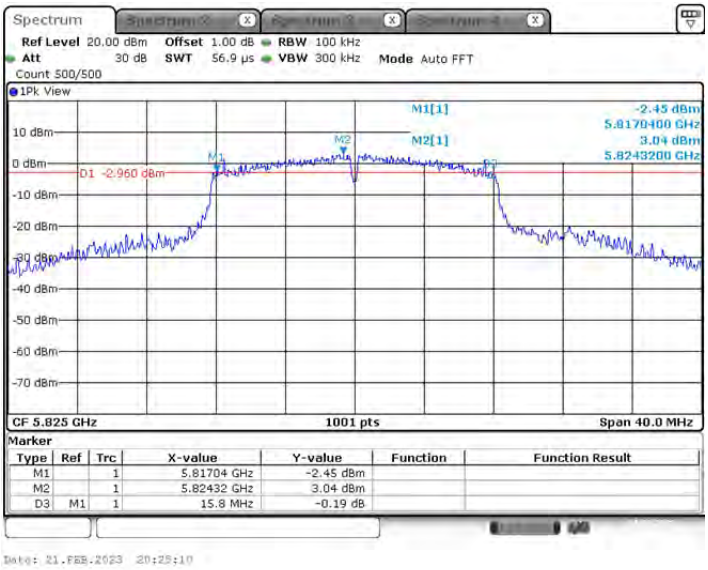


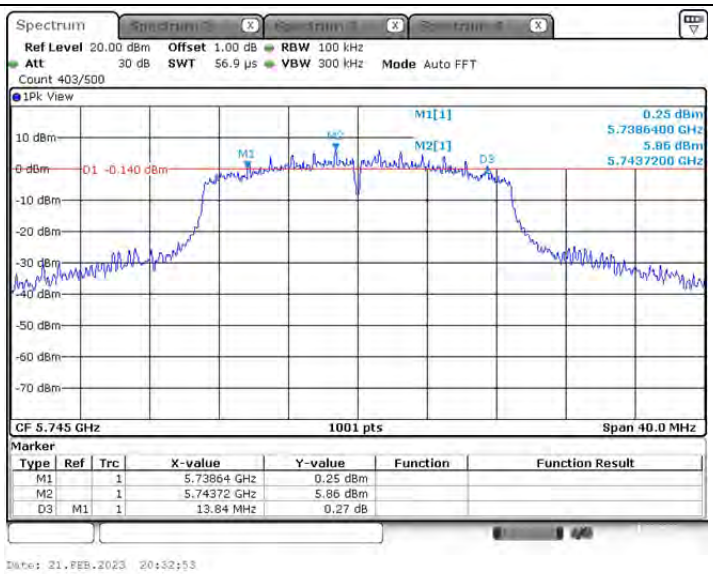
# Appendix A3: Min emission bandwidth

**Test Result**

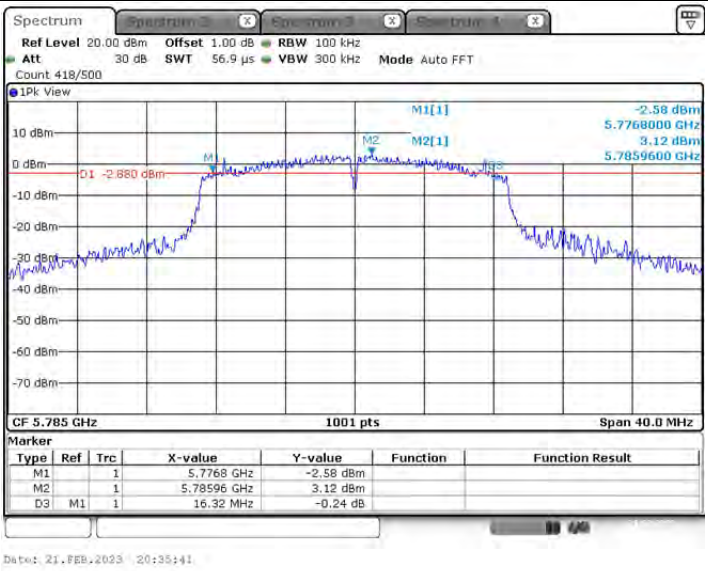
| Test Mode | Channel | 6db EBW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|
| 802.11a | 5745 | 15.00 | 5737.48 | 5752.48 | >0.5 | PASS |
| | 5785 | 16.08 | 5777.04 | 5793.12 | >0.5 | PASS |
| | 5825 | 15.80 | 5817.04 | 5832.84 | >0.5 | PASS |
| 802.11n(HT20) | 5745 | 13.84 | 5738.64 | 5752.48 | >0.5 | PASS |
| | 5785 | 16.32 | 5776.80 | 5793.12 | >0.5 | PASS |
| | 5825 | 15.08 | 5817.40 | 5832.48 | >0.5 | PASS |
| 802.11n(HT40) | 5755 | 21.68 | 5742.44 | 5764.12 | >0.5 | PASS |
| | 5795 | 35.04 | 5777.40 | 5812.44 | >0.5 | PASS |
| 802.11ac(VHT20) | 5745 | 15.32 | 5737.20 | 5752.52 | >0.5 | PASS |
| | 5785 | 13.84 | 5778.68 | 5792.52 | >0.5 | PASS |
| | 5825 | 15.68 | 5817.08 | 5832.76 | >0.5 | PASS |
| 802.11ac(VHT40) | 5755 | 34.72 | 5737.80 | 5772.52 | >0.5 | PASS |
| | 5795 | 32.16 | 5779.08 | 5811.24 | >0.5 | PASS |
| 802.11ac(VHT80) | 5775 | 15.00 | 5737.48 | 5752.48 | >0.5 | PASS |

## Test Graphs

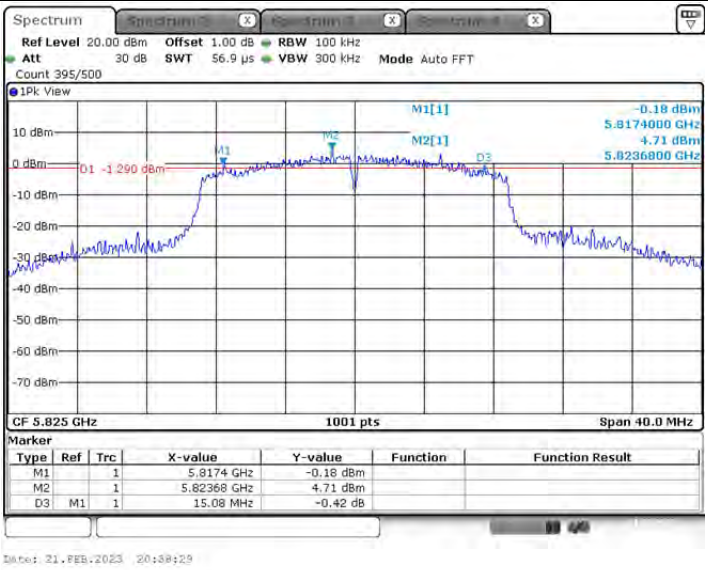
| 802.11a_5745 |
| --- |
|  |
| 802.11a_5785 |
|  |
| 802.11a_5825 |
|  |
| 802.11n(HT20)_5745 |



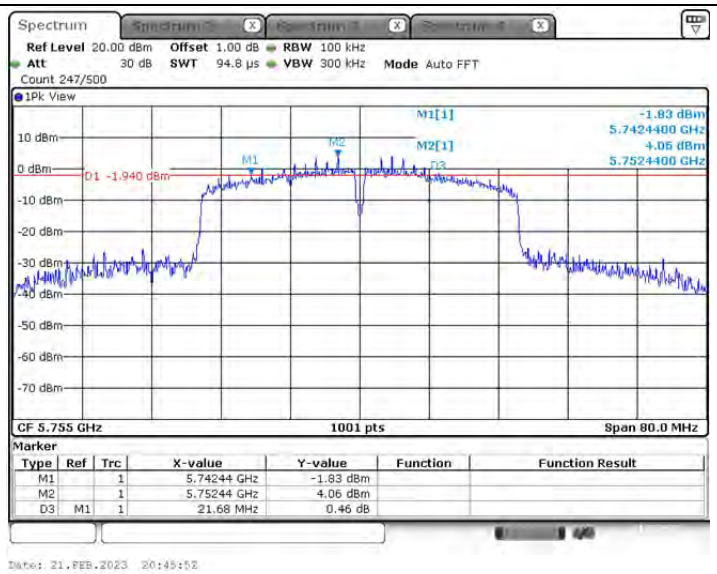

802.11n(HT20)_5785



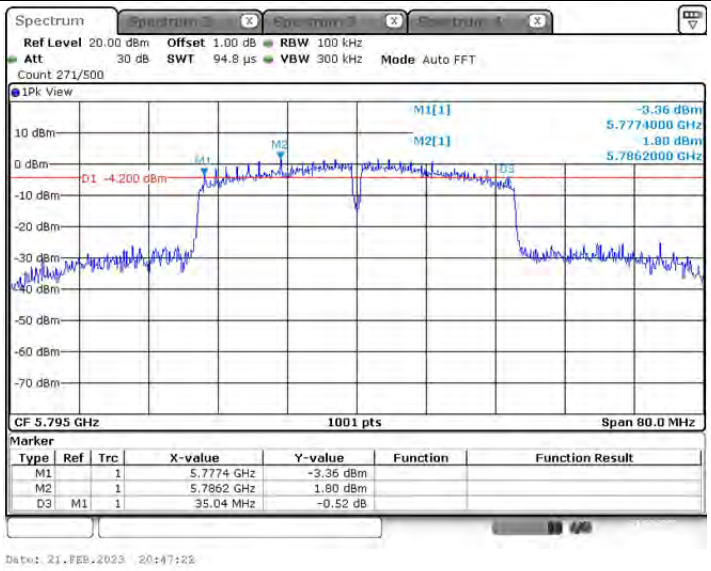

802.11n(HT20)_5825



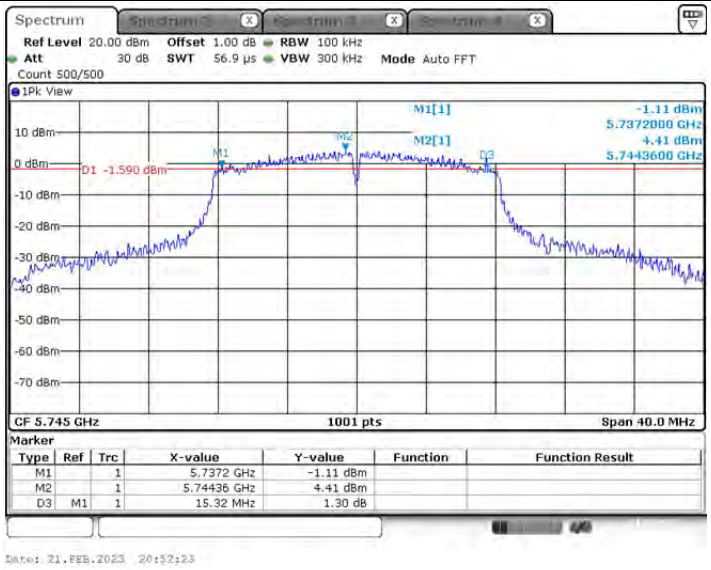

802.11n(HT40)_5755



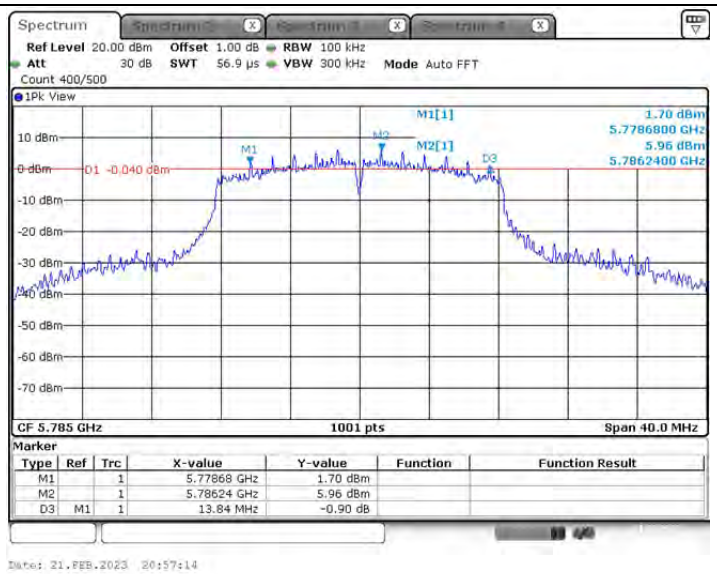

802.11n(HT40)_5795



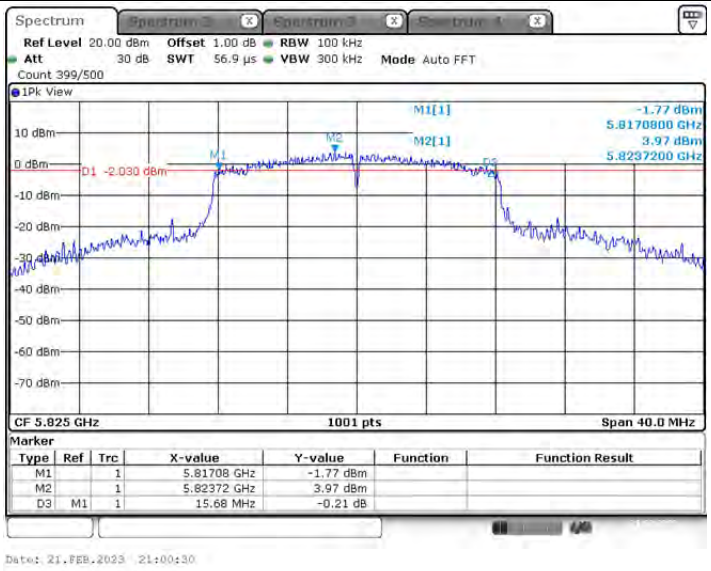

802.11ac(VHT20)_5745



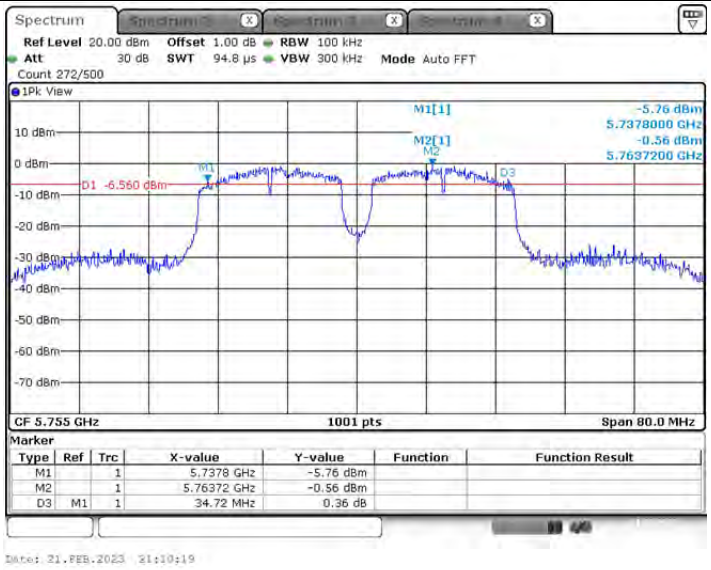

802.11ac(VHT20)_5785



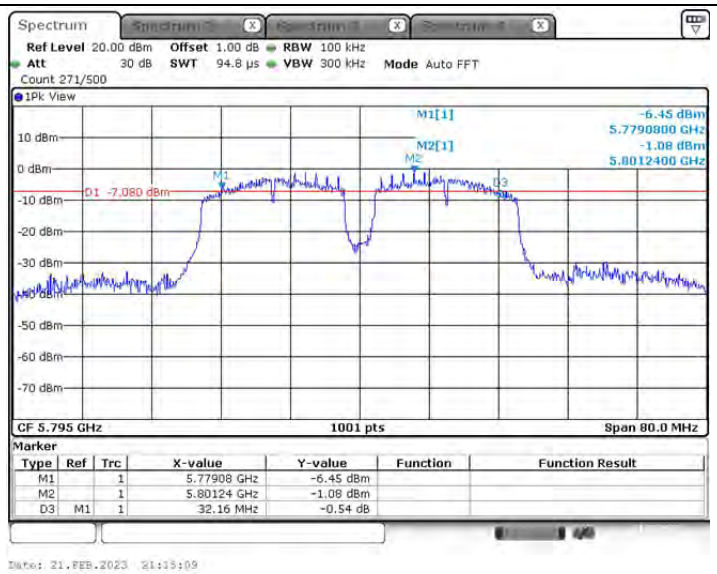

802.11ac(VHT20)_5825




802.11ac(VHT40)_5755




802.11ac(VHT40)_5795


Spectrum
Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz
Att 30 dB SWT 94.8 µs VBW 300 kHz Mode Auto FFT
Count 271/500
1Pk View
M1[1] -6.45 dBm
5.7790800 GHz
M2[1] -1.08 dBm
5.8012400 GHz
D1 -7.080 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
CF 5.795 GHz
1001 pts
Span 80.0 MHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 5.77908 GHz -6.45 dBm
M2 1 5.80124 GHz -1.08 dBm
D3 M1 1 32.16 MHz -0.54 dB
Date: 21.FEB.2023 21:15:09

## Appendix B: Maximum conducted output power

**Test Result**

| Test Mode | Channel | Result Avg[dBm] | Limit[dBm] | Verdict |
|---|---|---|---|---|
| 802.11a | 5180 | 16.34 | <=24 | PASS |
| | 5200 | 16.20 | <=24 | PASS |
| | 5240 | 16.22 | <=24 | PASS |
| | 5745 | 16.54 | <=30 | PASS |
| | 5785 | 16.30 | <=30 | PASS |
| | 5825 | 15.82 | <=30 | PASS |
| 802.11n(HT20) | 5180 | 16.02 | <=24 | PASS |
| | 5200 | 15.87 | <=24 | PASS |
| | 5240 | 16.01 | <=24 | PASS |
| | 5745 | 16.24 | <=30 | PASS |
| | 5785 | 15.98 | <=30 | PASS |
| | 5825 | 15.71 | <=30 | PASS |
| 802.11n(HT40) | 5190 | 16.10 | <=24 | PASS |
| | 5230 | 15.73 | <=24 | PASS |
| | 5755 | 16.48 | <=30 | PASS |
| | 5795 | 16.36 | <=30 | PASS |
| 802.11ac(VHT20) | 5180 | 16.37 | <=24 | PASS |
| | 5200 | 16.33 | <=24 | PASS |
| | 5240 | 16.35 | <=24 | PASS |
| | 5745 | 16.68 | <=30 | PASS |
| | 5785 | 15.85 | <=30 | PASS |
| | 5825 | 16.39 | <=30 | PASS |
| 802.11ac(VHT40) | 5190 | 13.06 | <=24 | PASS |
| | 5230 | 12.90 | <=24 | PASS |
| | 5755 | 14.94 | <=30 | PASS |
| | 5795 | 13.27 | <=30 | PASS |

*Note：1. Test results increased RF cable loss by 1dB.*

*2. Test results increased Duty Cycle Factor.*

# Appendix C: Maximum power spectral density

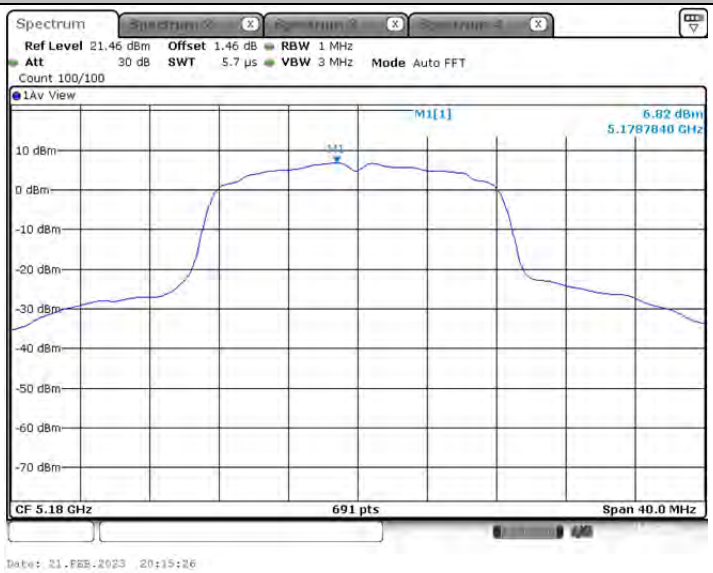
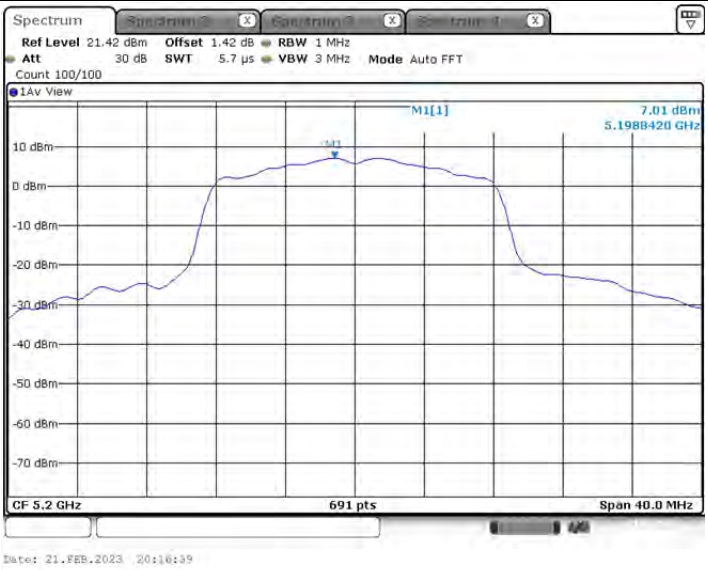
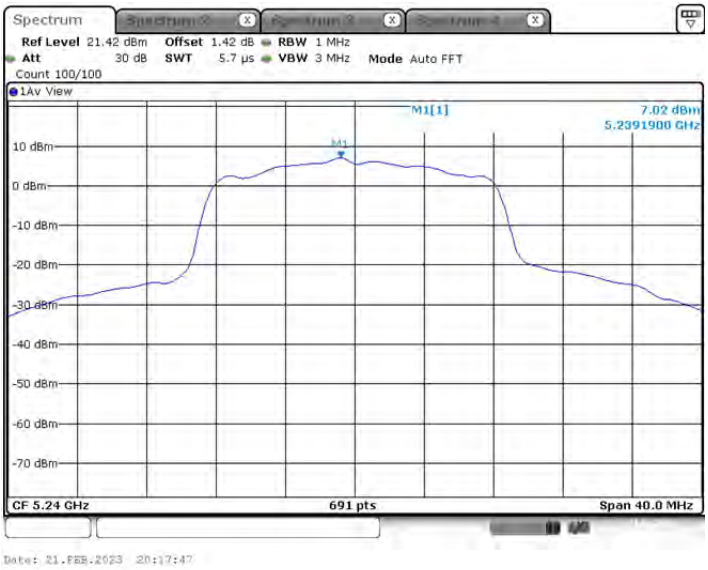
**Test Result**

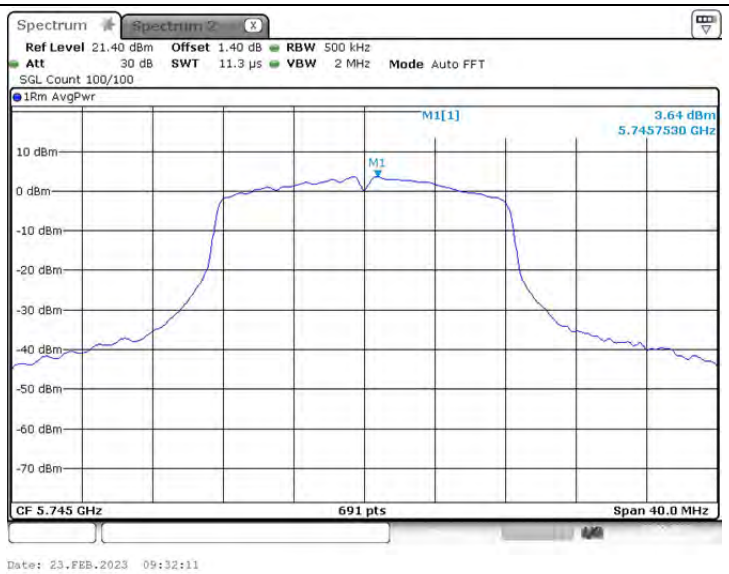
| Test Mode | Channel | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|---|---|---|---|---|
| 802.11a | 5180 | 6.82 | <=11 | PASS |
| | 5200 | 7.01 | <=11 | PASS |
| | 5240 | 7.02 | <=11 | PASS |
| | 5745 | 3.64 | <=30 | PASS |
| | 5785 | 4.37 | <=30 | PASS |
| | 5825 | 5.25 | <=30 | PASS |
| 802.11n(HT20) | 5180 | 6.26 | <=11 | PASS |
| | 5200 | 5.86 | <=11 | PASS |
| | 5240 | 6.17 | <=11 | PASS |
| | 5745 | 4.22 | <=30 | PASS |
| | 5785 | 4.28 | <=30 | PASS |
| | 5825 | 6.50 | <=30 | PASS |
| 802.11n(HT40) | 5190 | 6.17 | <=11 | PASS |
| | 5230 | 3.81 | <=11 | PASS |
| | 5755 | 0.68 | <=30 | PASS |
| | 5795 | 0.55 | <=30 | PASS |
| 802.11ac(VHT20) | 5180 | 6.87 | <=11 | PASS |
| | 5200 | 7.15 | <=11 | PASS |
| | 5240 | 7.22 | <=11 | PASS |
| | 5745 | 3.41 | <=30 | PASS |
| | 5785 | 4.19 | <=30 | PASS |
| | 5825 | 5.87 | <=30 | PASS |
| 802.11ac(VHT40) | 5190 | 1.02 | <=11 | PASS |
| | 5230 | 0.91 | <=11 | PASS |
| | 5755 | 0.94 | <=30 | PASS |
| | 5795 | 0.59 | <=30 | PASS |

*Note：1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.*

*2. The Duty Cycle Factor and RBW Factor is compensated in the graph.*

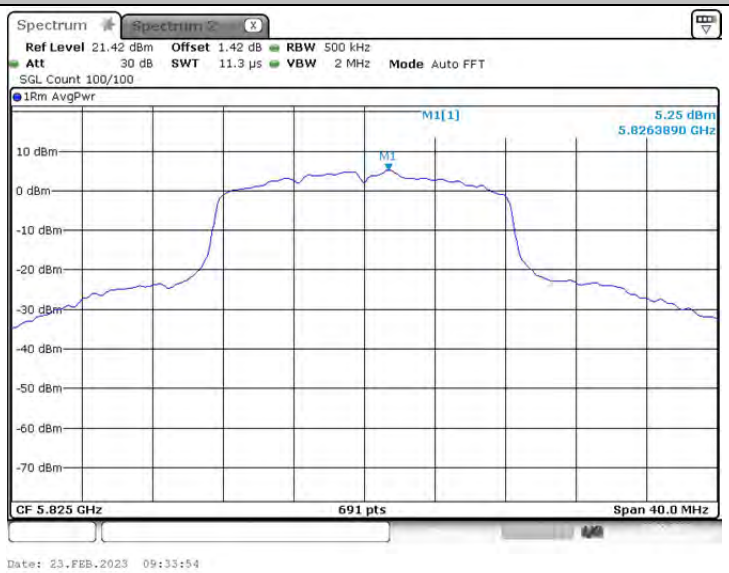
## Test Graphs

| 802.11a_5180 |
| --- |
|  |
| 802.11a_5200 |
|  |
| 802.11a_5240 |
|  |
| 802.11a_5745 |

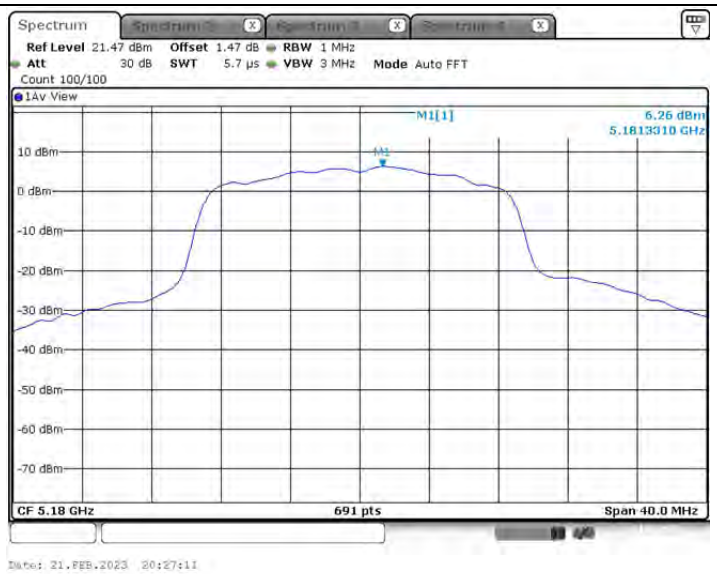



802.11a_5785

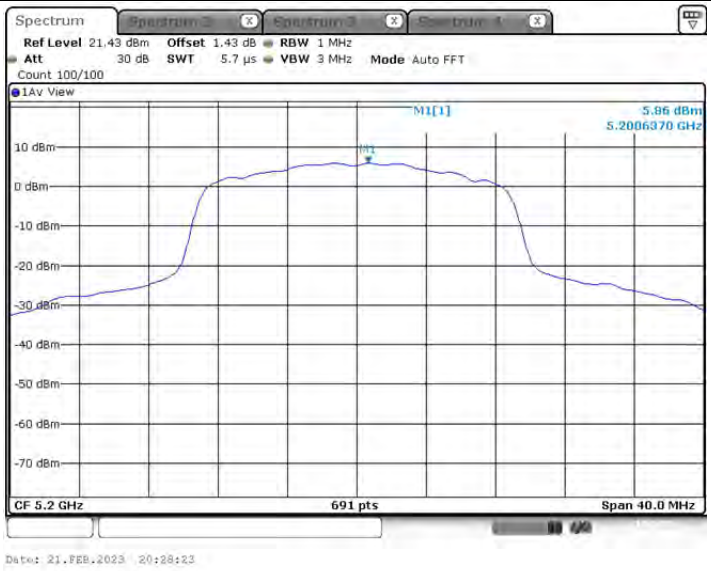

802.11a_5825




802.11n(HT20)_5180

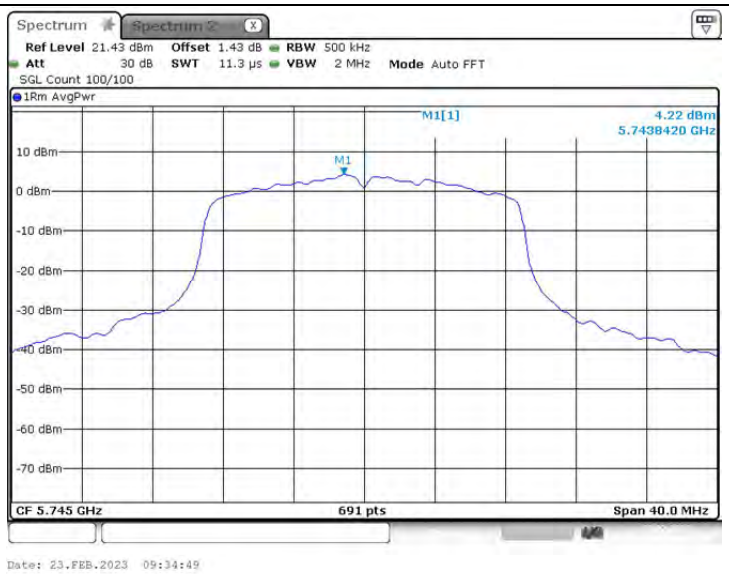



802.11n(HT20)_5200

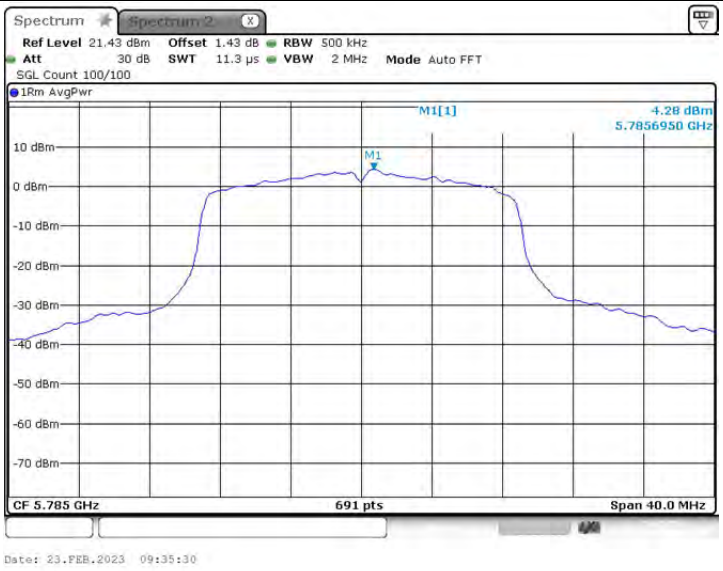



802.11n(HT20)_5240

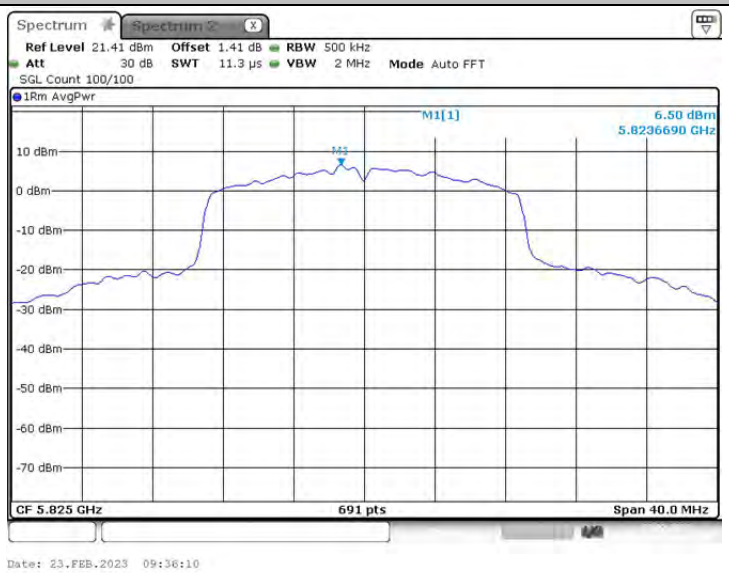

802.11n(HT20)_5745



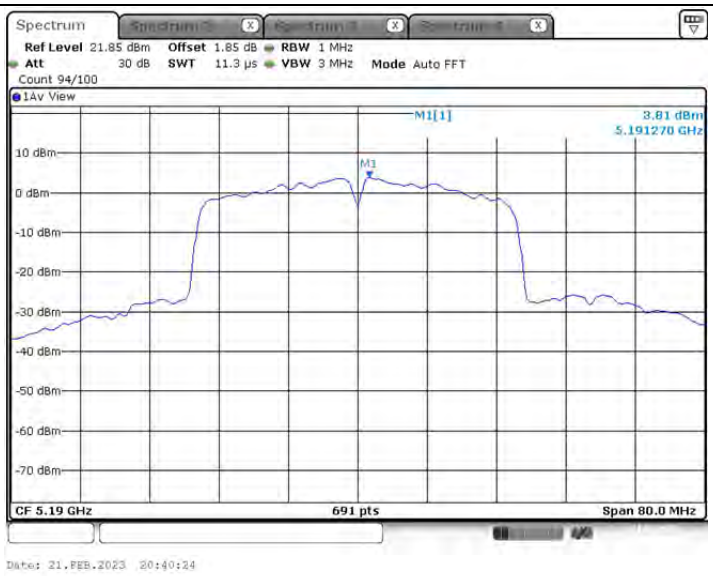

802.11n(HT20)_5785




802.11n(HT20)_5825

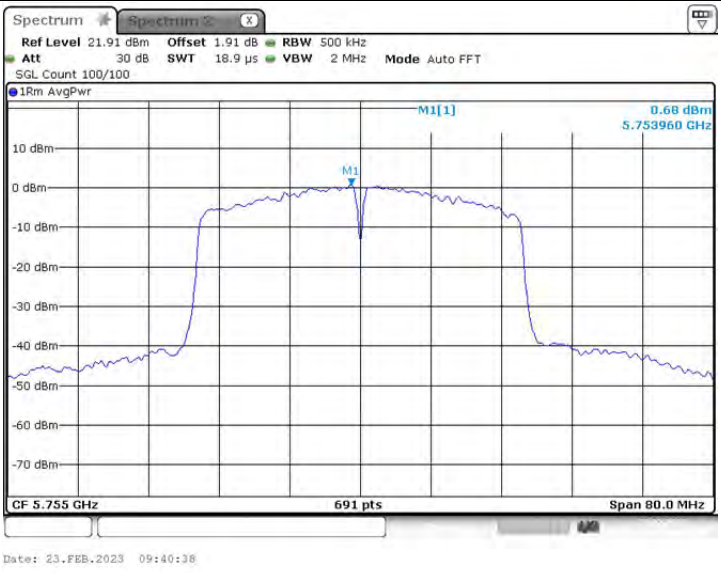



802.11n(HT40)_5190

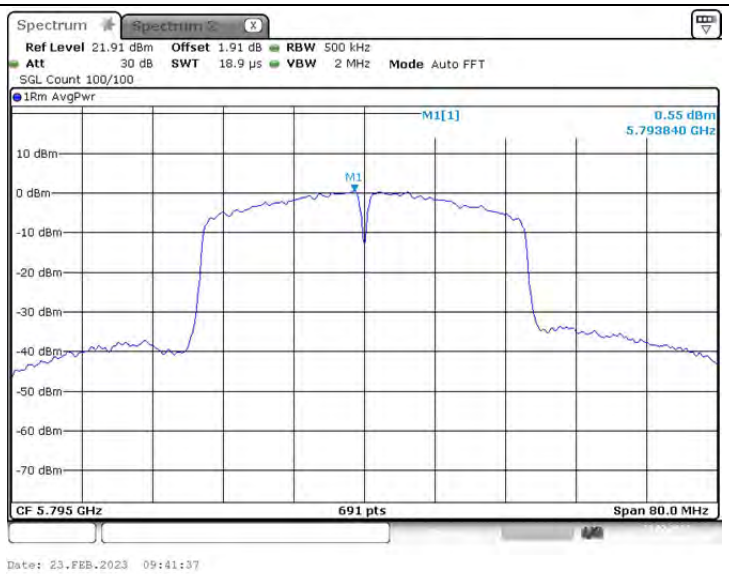



802.11n(HT40)_5230


802.11n(HT40)_5755

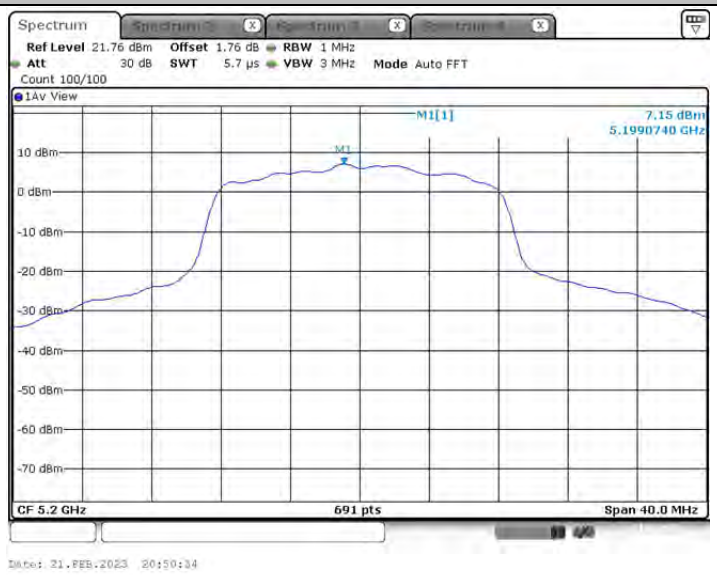



802.11n(HT40)_5795

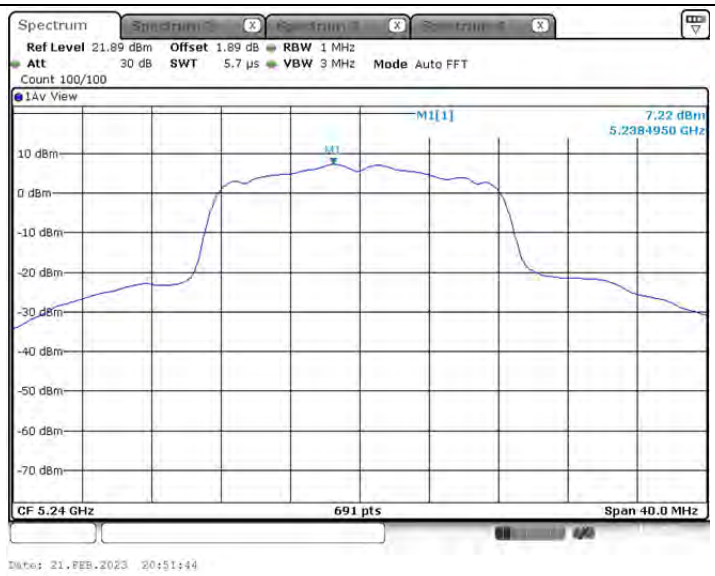



802.11ac(VHT20)_5180

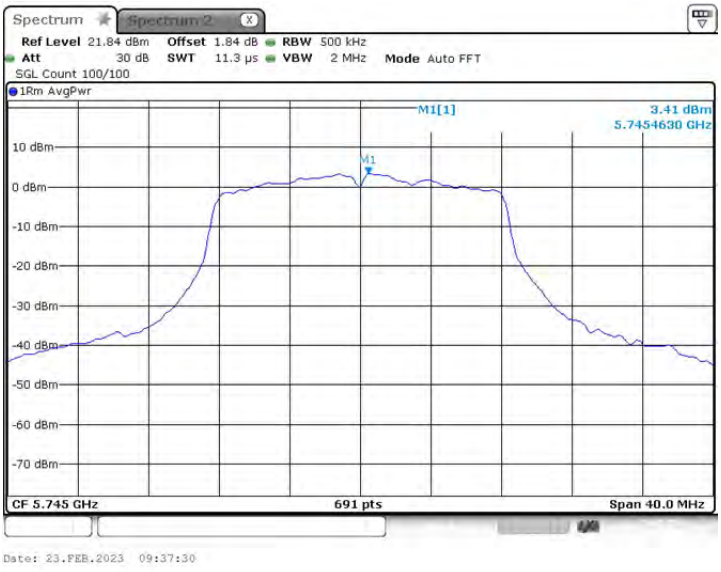

802.11ac(VHT20)_5200



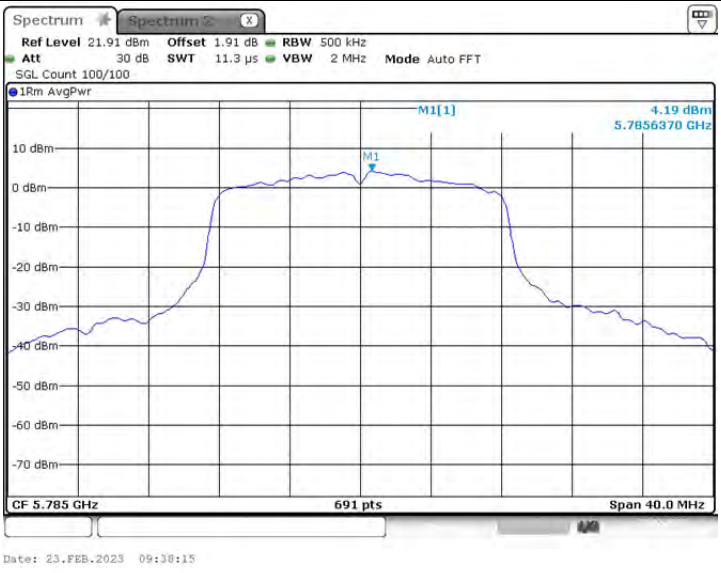

802.11ac(VHT20)_5240



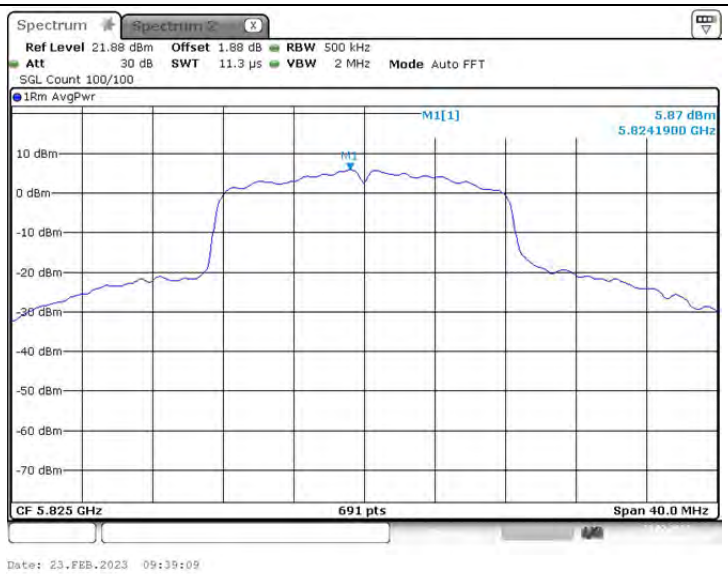

802.11ac(VHT20)_5745



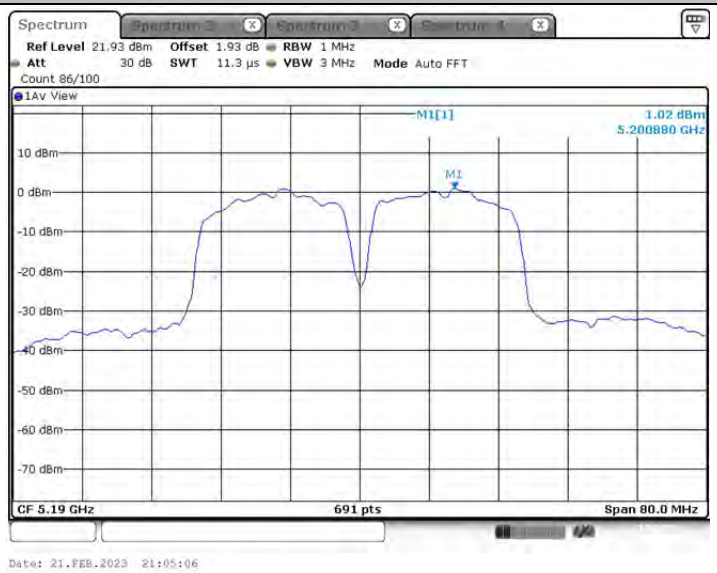

802.11ac(VHT20)_5785



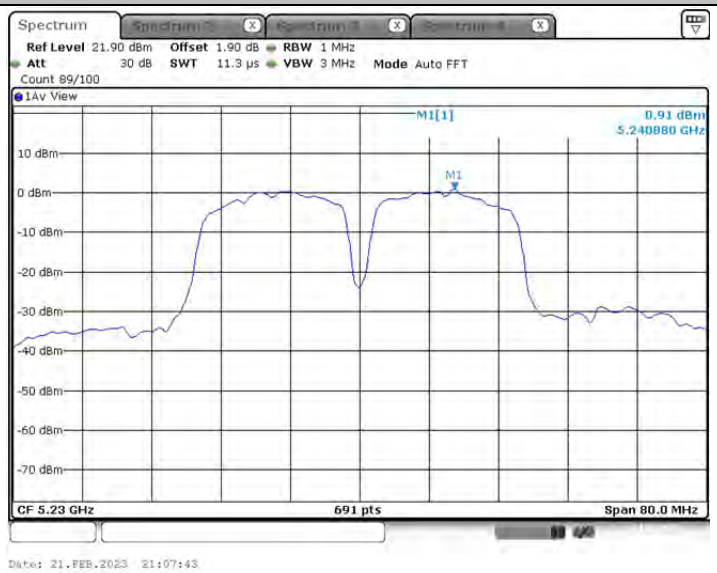

802.11ac(VHT20)_5825



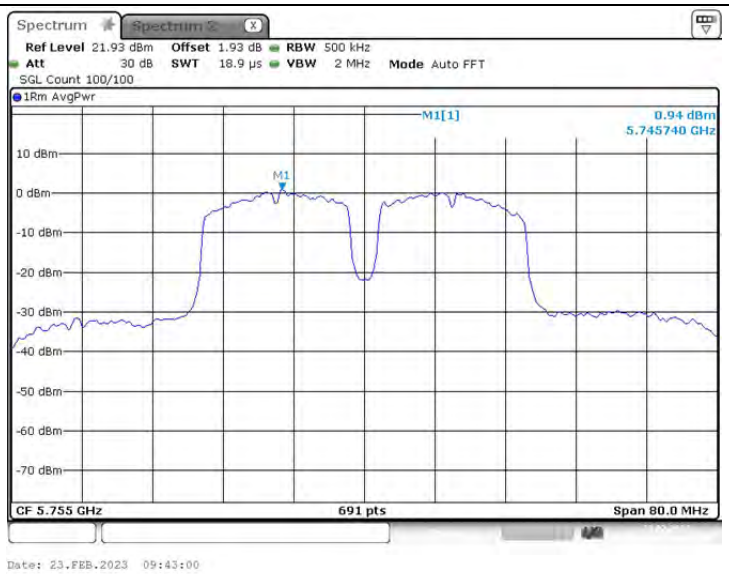

802.11ac(VHT40)_5190



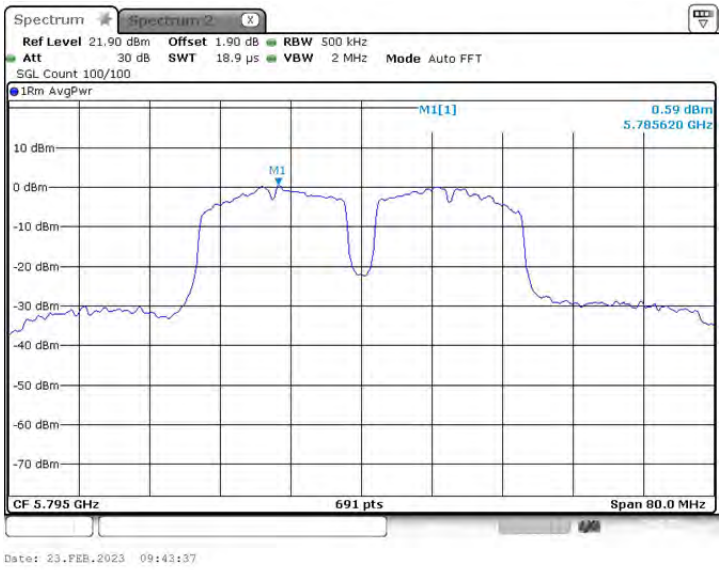

802.11ac(VHT40)_5230




802.11ac(VHT40)_5755




802.11ac(VHT40)_5795



# Appendix D: Frequency Stability

**Test Result**

| Voltage | | | | | | | |
|---|---|---|---|---|---|---|---|
| Test Mode | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 20MHz | 5180 | NV | NT | -27000 | -5.212355 | ±20 | PASS |
| | | LV | NT | -28000 | -5.405405 | ±20 | PASS |
| | | HV | NT | -28000 | -5.405405 | ±20 | PASS |
| | 5200 | NV | NT | -28000 | -5.384615 | ±20 | PASS |
| | | LV | NT | -28000 | -5.384615 | ±20 | PASS |
| | | HV | NT | -28000 | -5.384615 | ±20 | PASS |
| | 5240 | NV | NT | -28000 | -5.343511 | ±20 | PASS |
| | | LV | NT | -28000 | -5.343511 | ±20 | PASS |
| | | HV | NT | -28000 | -5.343511 | ±20 | PASS |
| | 5745 | NV | NT | -30000 | -5.221932 | ±20 | PASS |
| | | LV | NT | -31000 | -5.395997 | ±20 | PASS |
| | | HV | NT | -31000 | -5.395997 | ±20 | PASS |
| | 5785 | NV | NT | -31000 | -5.358686 | ±20 | PASS |
| | | LV | NT | -32000 | -5.531547 | ±20 | PASS |
| | | HV | NT | -32000 | -5.531547 | ±20 | PASS |
| | 5825 | NV | NT | -32000 | -5.493562 | ±20 | PASS |
| | | LV | NT | -32000 | -5.493562 | ±20 | PASS |
| | | HV | NT | -32000 | -5.493562 | ±20 | PASS |
| 40MHz | 5190 | NV | NT | -29000 | -5.587669 | ±20 | PASS |
| | | LV | NT | -28000 | -5.394990 | ±20 | PASS |
| | | HV | NT | -28000 | -5.394990 | ±20 | PASS |
| | 5230 | NV | NT | -28000 | -5.353728 | ±20 | PASS |
| | | LV | NT | -28000 | -5.353728 | ±20 | PASS |
| | | HV | NT | -28000 | -5.353728 | ±20 | PASS |
| | 5755 | NV | NT | -31000 | -5.386620 | ±20 | PASS |
| | | LV | NT | -31000 | -5.386620 | ±20 | PASS |
| | | HV | NT | -31000 | -5.386620 | ±20 | PASS |
| | 5795 | NV | NT | -31000 | -5.349439 | ±20 | PASS |
| | | LV | NT | -31000 | -5.349439 | ±20 | PASS |
| | | HV | NT | -31000 | -5.349439 | ±20 | PASS |

| Temperature | | | | | | | |
|---|---|---|---|---|---|---|---|
| TestMode | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 20MHz | 5180 | NV | 0 | -27000 | -5.212355 | ±20 | PASS |
| | | NV | 10 | -28000 | -5.405405 | ±20 | PASS |
| | | NV | 20 | -28000 | -5.405405 | ±20 | PASS |
| | | NV | 30 | -28000 | -5.405405 | ±20 | PASS |
| | | NV | 40 | -28000 | -5.405405 | ±20 | PASS |
| | | NV | 45 | -27000 | -5.212355 | ±20 | PASS |
| | 5200 | NV | 0 | -28000 | -5.384615 | ±20 | PASS |
| | | NV | 10 | -28000 | -5.384615 | ±20 | PASS |
| | | NV | 20 | -28000 | -5.384615 | ±20 | PASS |
| | | NV | 30 | -28000 | -5.384615 | ±20 | PASS |
| | | NV | 40 | -28000 | -5.384615 | ±20 | PASS |
| | | NV | 45 | -28000 | -5.384615 | ±20 | PASS |
| | 5240 | NV | 0 | -28000 | -5.343511 | ±20 | PASS |
| | | NV | 10 | -28000 | -5.343511 | ±20 | PASS |
| | | NV | 20 | -28000 | -5.343511 | ±20 | PASS |
| | | NV | 30 | -28000 | -5.343511 | ±20 | PASS |
| | | NV | 40 | -28000 | -5.343511 | ±20 | PASS |
| | | NV | 45 | -28000 | -5.343511 | ±20 | PASS |
| | 5745 | NV | 0 | -31000 | -5.395997 | ±20 | PASS |
| | | NV | 10 | -31000 | -5.395997 | ±20 | PASS |
| | | NV | 20 | -31000 | -5.395997 | ±20 | PASS |
| | | NV | 30 | -31000 | -5.395997 | ±20 | PASS |
| | | NV | 40 | -32000 | -5.570061 | ±20 | PASS |
| | | NV | 45 | -31000 | -5.395997 | ±20 | PASS |
| | 5785 | NV | 0 | -32000 | -5.531547 | ±20 | PASS |
| | | NV | 10 | -32000 | -5.531547 | ±20 | PASS |
| | | NV | 20 | -32000 | -5.531547 | ±20 | PASS |
| | | NV | 30 | -32000 | -5.531547 | ±20 | PASS |
| | | NV | 40 | -32000 | -5.531547 | ±20 | PASS |
| | | NV | 45 | -32000 | -5.531547 | ±20 | PASS |
| | 5825 | NV | 0 | -32000 | -5.493562 | ±20 | PASS |
| | | NV | 10 | -32000 | -5.493562 | ±20 | PASS |
| | | NV | 20 | -32000 | -5.493562 | ±20 | PASS |
| | | NV | 30 | -32000 | -5.493562 | ±20 | PASS |
| | | NV | 40 | -32000 | -5.493562 | ±20 | PASS |
| | | NV | 45 | -32000 | -5.493562 | ±20 | PASS |
| 40MHz | 5190 | NV | 0 | -28000 | -5.39499 | ±20 | PASS |
| | | NV | 10 | -28000 | -5.39499 | ±20 | PASS |
| | | NV | 20 | -28000 | -5.39499 | ±20 | PASS |
| | | NV | 30 | -28000 | -5.39499 | ±20 | PASS |
| | | NV | 40 | -28000 | -5.39499 | ±20 | PASS |
| | | NV | 45 | -28000 | -5.39499 | ±20 | PASS |
| | 5230 | NV | 0 | -28000 | -5.353728 | ±20 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | NV | 10 | -28000 | -5.353728 | ±20 | PASS |
| | | NV | 20 | -28000 | -5.353728 | ±20 | PASS |
| | | NV | 30 | -28000 | -5.353728 | ±20 | PASS |
| | | NV | 40 | -28000 | -5.353728 | ±20 | PASS |
| | | NV | 45 | -28000 | -5.353728 | ±20 | PASS |
| | 5755 | NV | 0 | -32000 | -5.560382 | ±20 | PASS |
| | | NV | 10 | -32000 | -5.560382 | ±20 | PASS |
| | | NV | 20 | -32000 | -5.560382 | ±20 | PASS |
| | | NV | 30 | -32000 | -5.560382 | ±20 | PASS |
| | | NV | 40 | -32000 | -5.560382 | ±20 | PASS |
| | | NV | 45 | -32000 | -5.560382 | ±20 | PASS |
| | 5795 | NV | 0 | -32000 | -5.522001 | ±20 | PASS |
| | | NV | 10 | -32000 | -5.522001 | ±20 | PASS |
| | | NV | 20 | -32000 | -5.522001 | ±20 | PASS |
| | | NV | 30 | -32000 | -5.522001 | ±20 | PASS |
| | | NV | 40 | -32000 | -5.522001 | ±20 | PASS |
| | | NV | 45 | -32000 | -5.522001 | ±20 | PASS |

# Appendix E: Duty Cycle

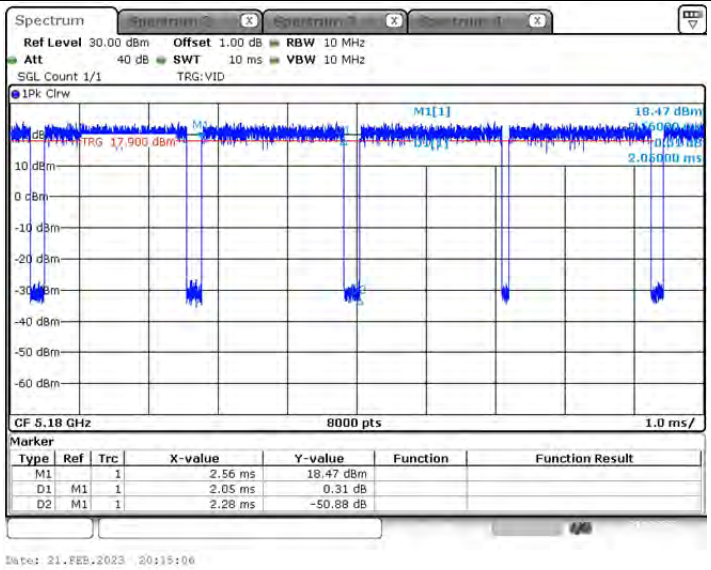
**Test Result**

| Test Mode | Channel | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | 1/T Minimum VBW (kHz) | Final setting For VBW (kHz) | Duty factor (dB) |
|---|---|---|---|---|---|---|---|
| 802.11a | 5180 | 2.05 | 2.28 | 89.91 | 0.49 | 1 | 0.46 |
| | 5200 | 2.05 | 2.26 | 90.71 | 0.49 | 1 | 0.42 |
| | 5240 | 2.05 | 2.26 | 90.71 | 0.49 | 1 | 0.42 |
| | 5745 | 2.05 | 2.25 | 91.11 | 0.49 | 1 | 0.40 |
| | 5785 | 2.05 | 2.26 | 90.71 | 0.49 | 1 | 0.42 |
| | 5825 | 2.05 | 2.26 | 90.71 | 0.49 | 1 | 0.42 |
| 802.11n(HT20) | 5180 | 1.91 | 2.13 | 89.67 | 0.52 | 1 | 0.47 |
| | 5200 | 1.91 | 2.11 | 90.52 | 0.52 | 1 | 0.43 |
| | 5240 | 1.91 | 2.11 | 90.52 | 0.52 | 1 | 0.43 |
| | 5745 | 1.91 | 2.11 | 90.52 | 0.52 | 1 | 0.43 |
| | 5785 | 1.91 | 2.11 | 90.52 | 0.52 | 1 | 0.43 |
| | 5825 | 1.91 | 2.10 | 90.95 | 0.52 | 1 | 0.41 |
| 802.11n(HT40) | 5190 | 0.93 | 1.13 | 82.30 | 1.08 | 2 | 0.85 |
| | 5230 | 0.94 | 1.16 | 81.03 | 1.06 | 2 | 0.91 |
| | 5755 | 0.94 | 1.16 | 81.03 | 1.06 | 2 | 0.91 |
| | 5795 | 0.94 | 1.16 | 81.03 | 1.06 | 2 | 0.91 |
| 802.11ac(VHT20) | 5180 | 2.05 | 2.46 | 83.33 | 0.49 | 1 | 0.79 |
| | 5200 | 2.05 | 2.44 | 84.02 | 0.49 | 1 | 0.76 |
| | 5240 | 2.06 | 2.53 | 81.42 | 0.49 | 1 | 0.89 |
| | 5745 | 2.05 | 2.49 | 82.33 | 0.49 | 1 | 0.84 |
| | 5785 | 2.05 | 2.53 | 81.03 | 0.49 | 1 | 0.91 |
| | 5825 | 2.05 | 2.51 | 81.67 | 0.49 | 1 | 0.88 |
| 802.11ac(VHT40) | 5190 | 2.05 | 2.54 | 80.71 | 0.49 | 1 | 0.93 |
| | 5230 | 2.05 | 2.52 | 81.35 | 0.49 | 1 | 0.90 |
| | 5755 | 2.05 | 2.54 | 80.71 | 0.49 | 1 | 0.93 |
| | 5795 | 2.05 | 2.52 | 81.35 | 0.49 | 1 | 0.90 |

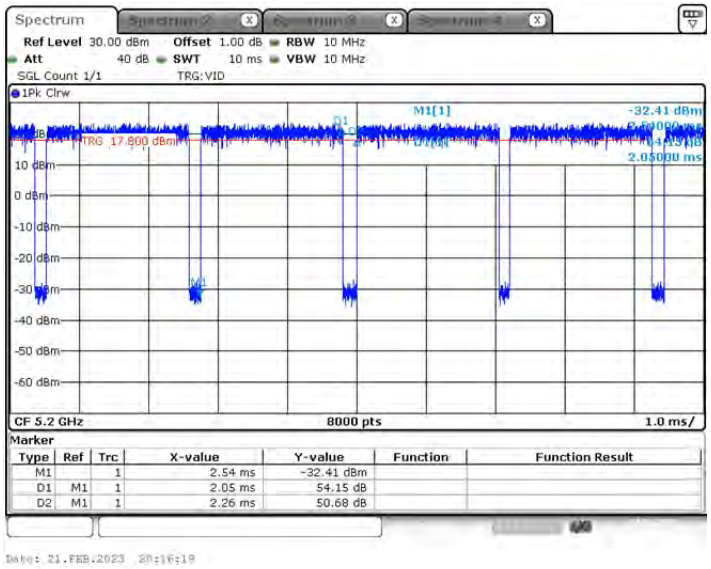
Note: Duty Cycle Factor = 10*Log10(1/ Duty Cycle)

**Test Graphs**

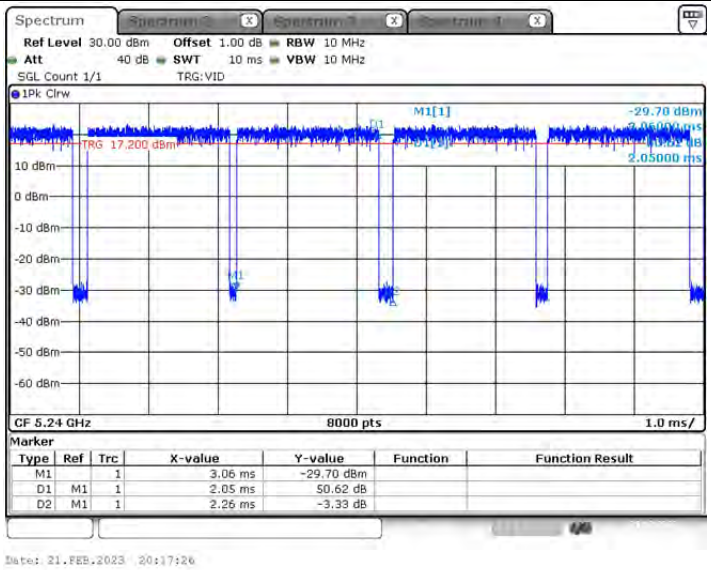
802.11a_5180



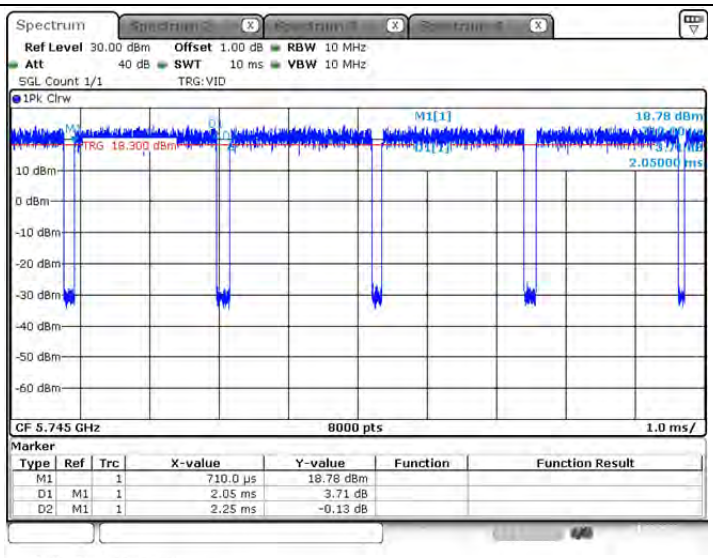

802.11a_5200



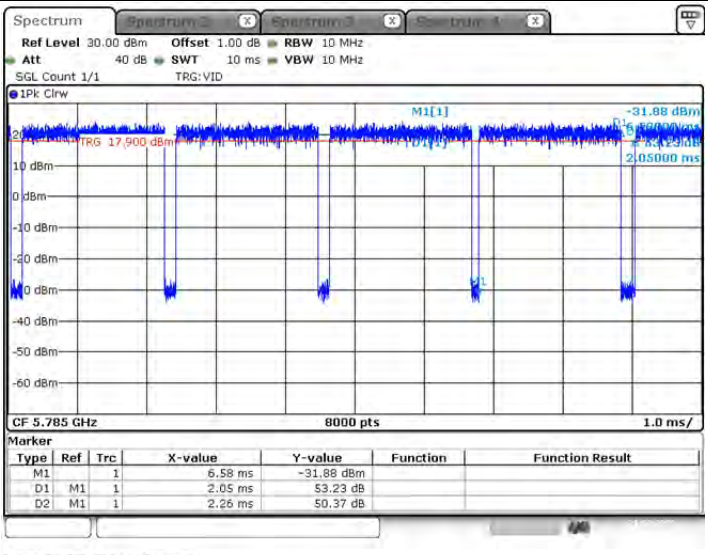

802.11a_5240




802.11a_5745




802.11a_5785

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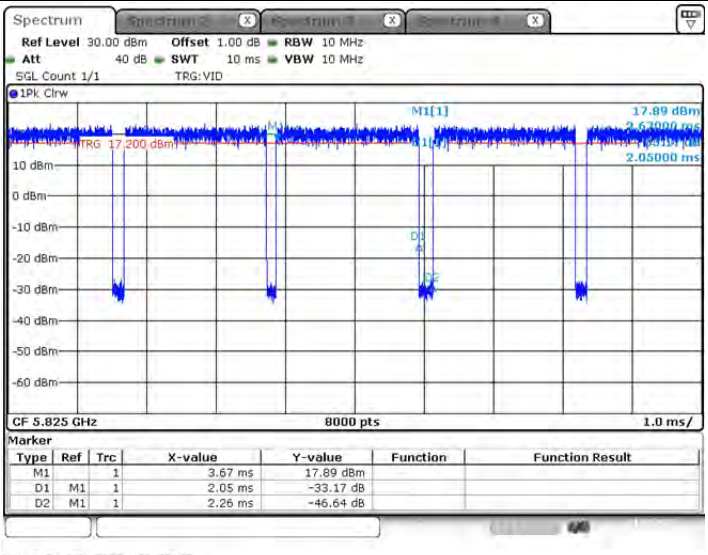
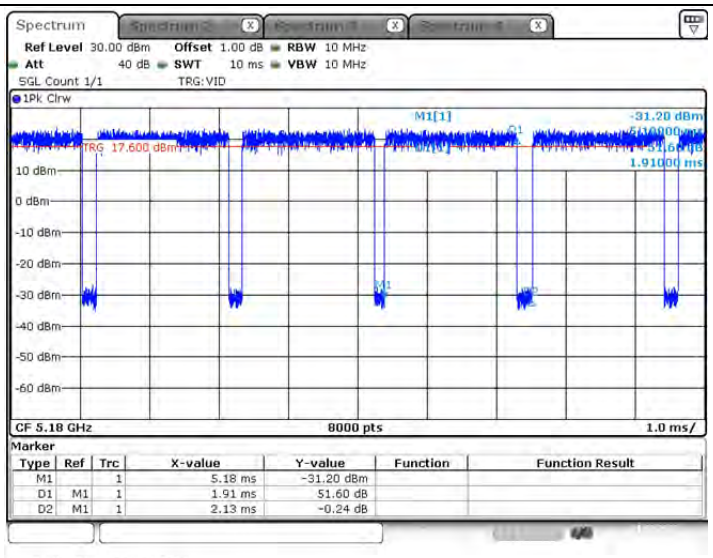



802.11n(HT20)_5180

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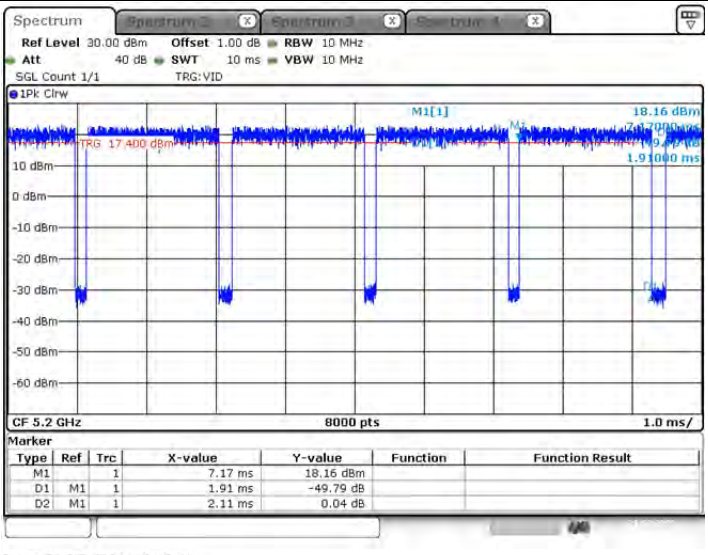


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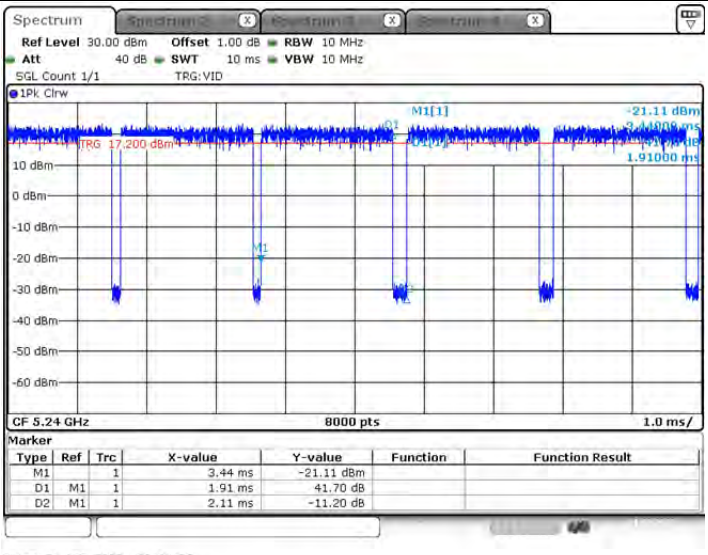


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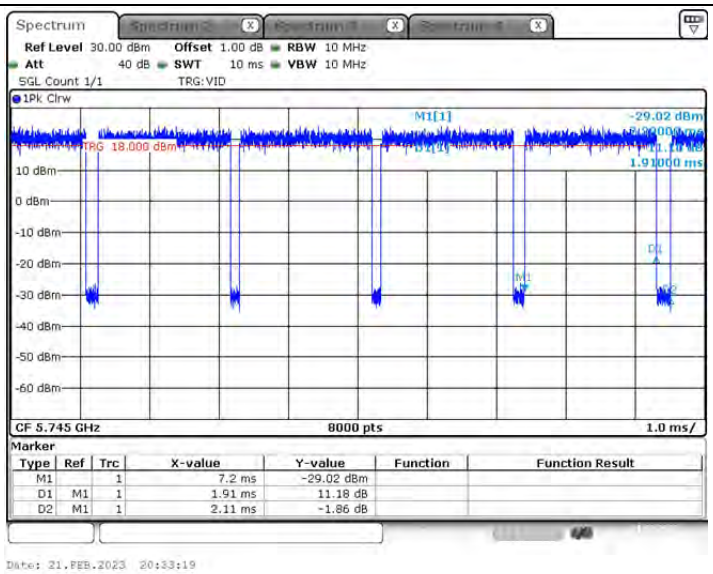


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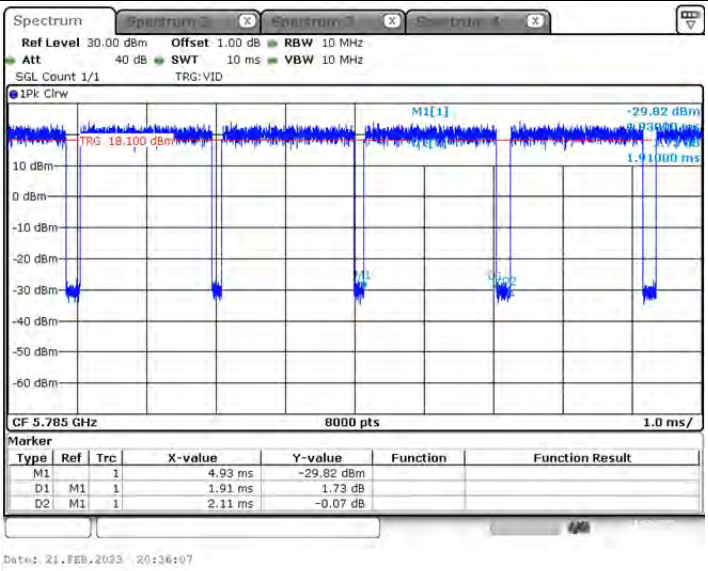


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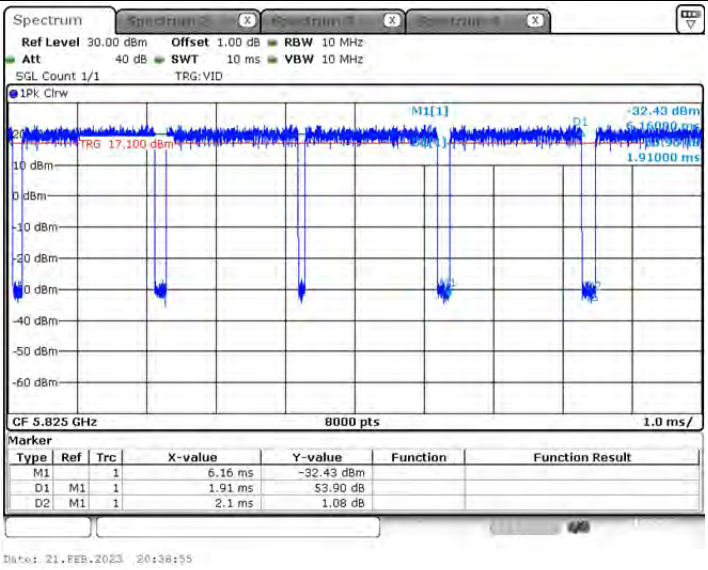


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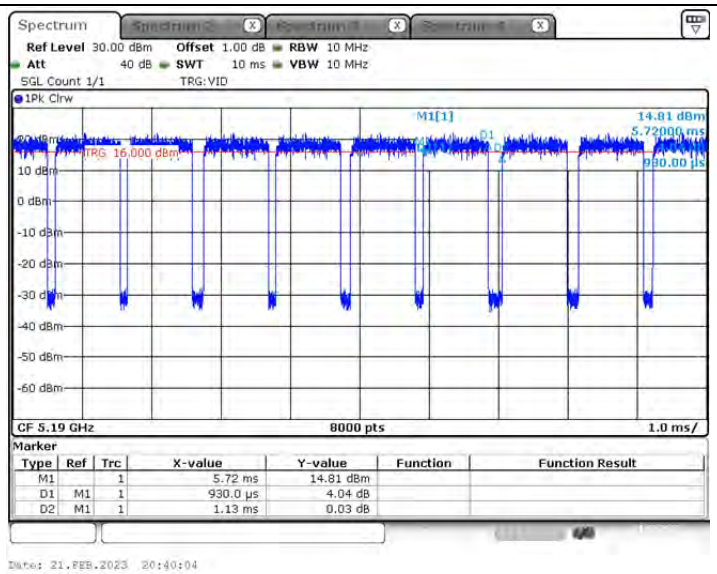


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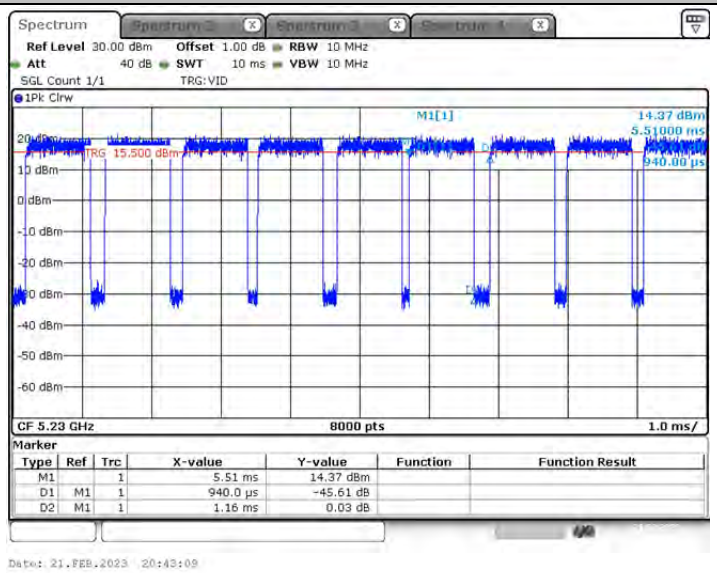


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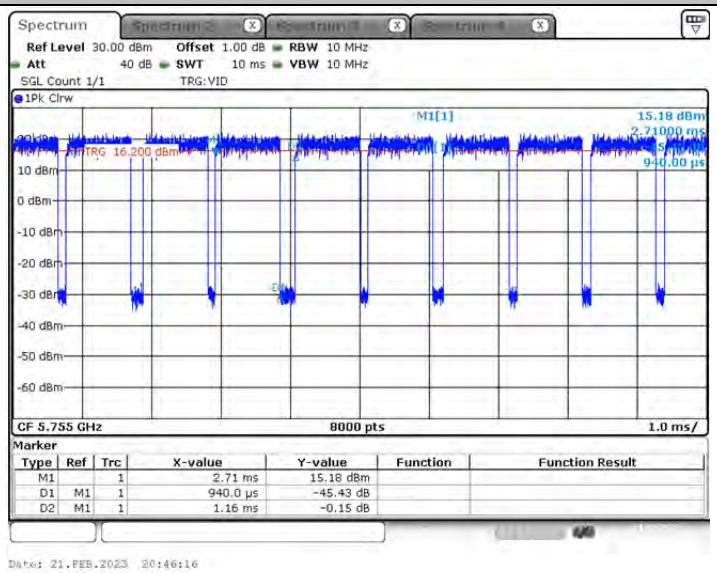


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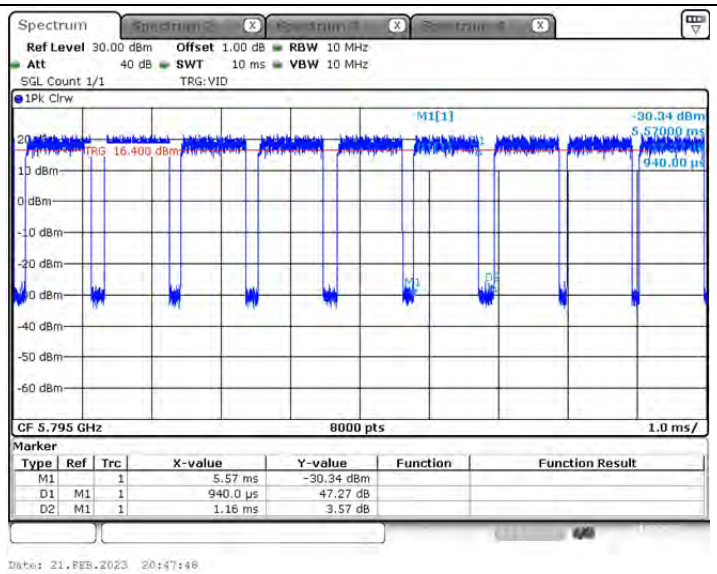
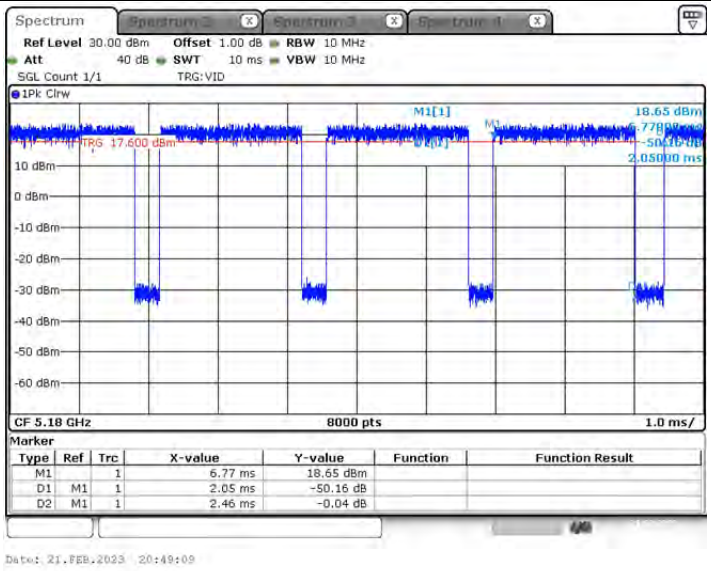



802.11ac(VHT20)_5180

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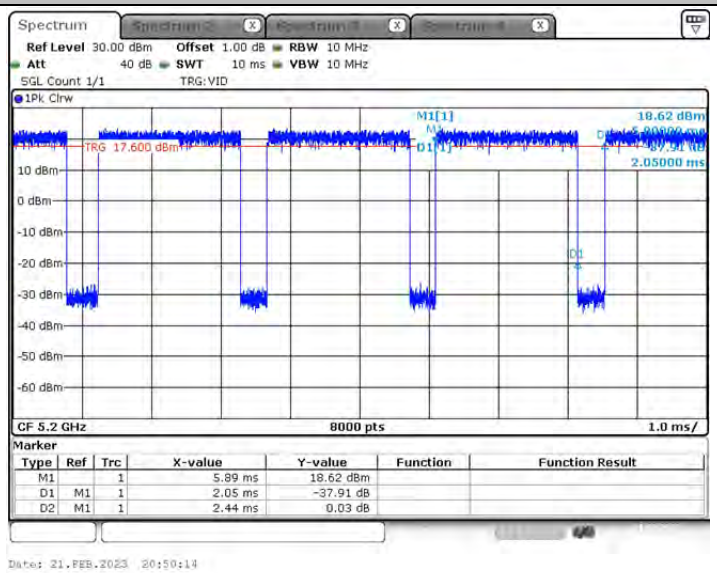


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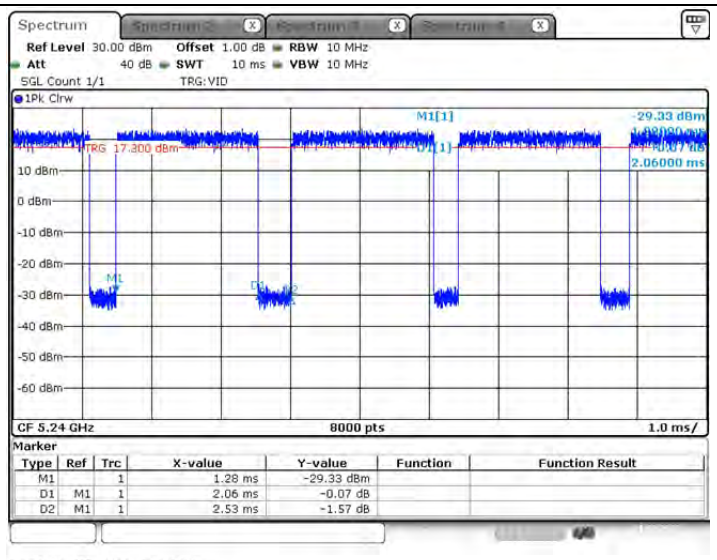


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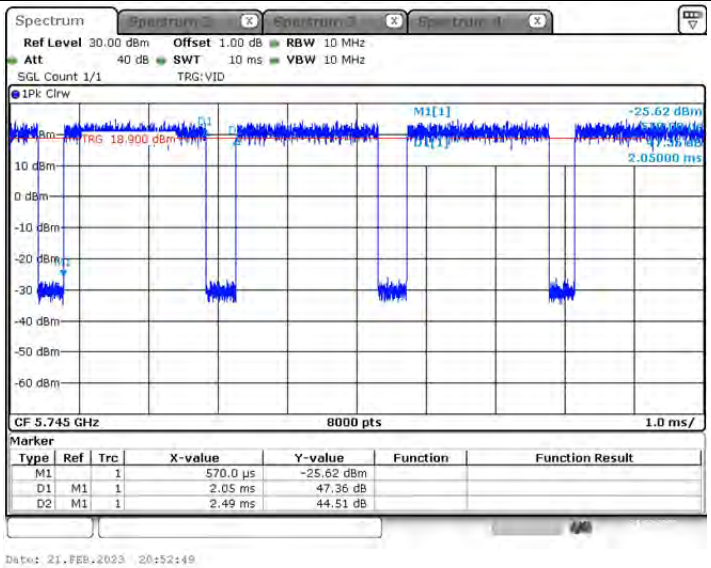


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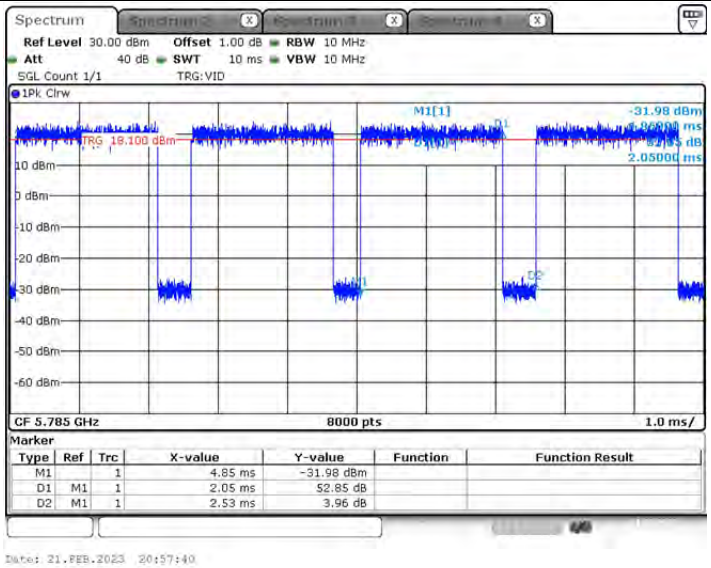


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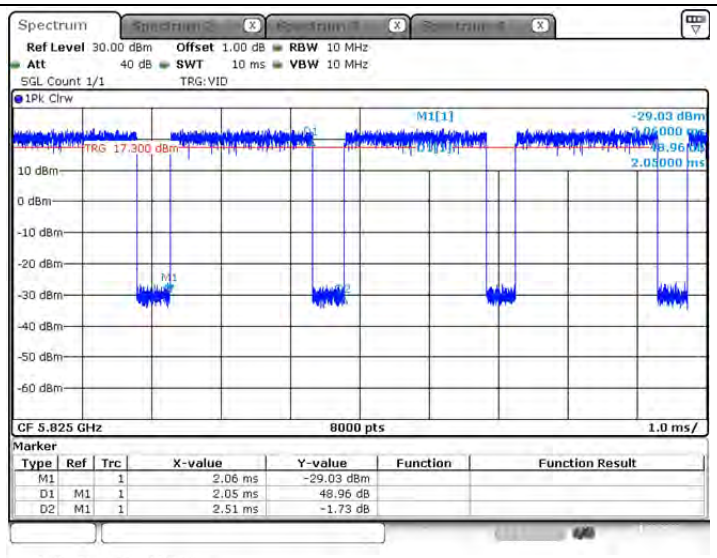


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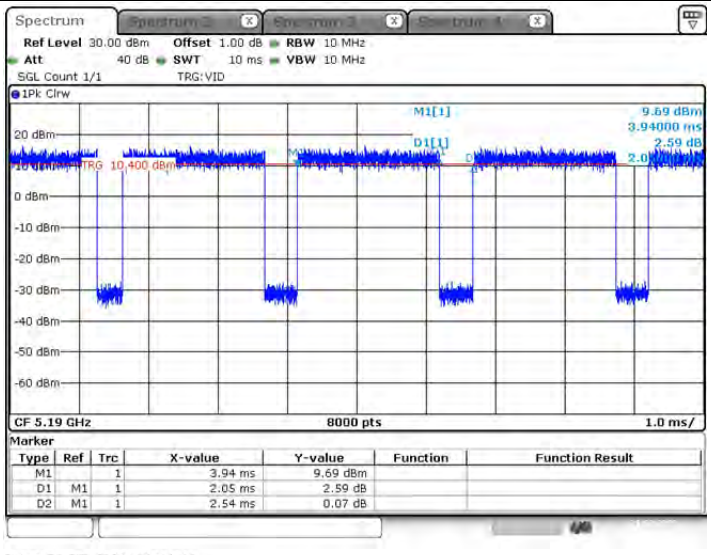


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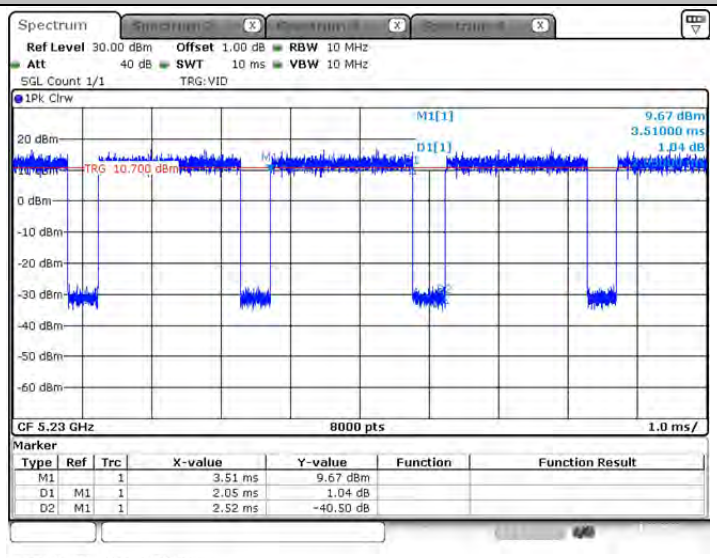


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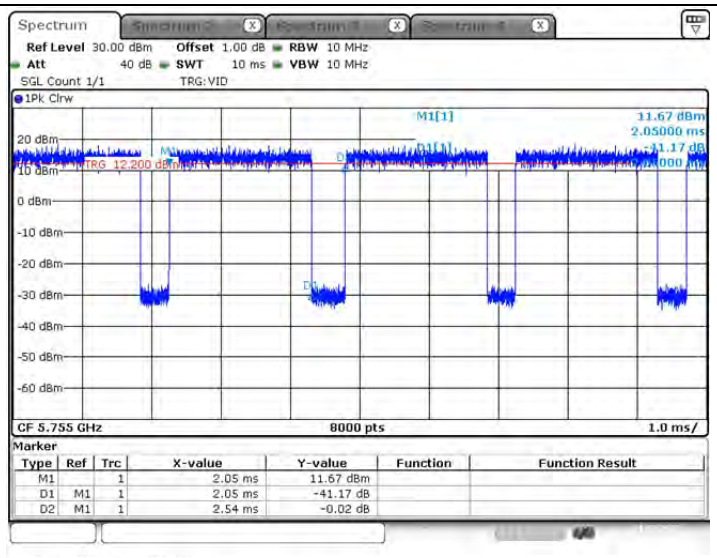


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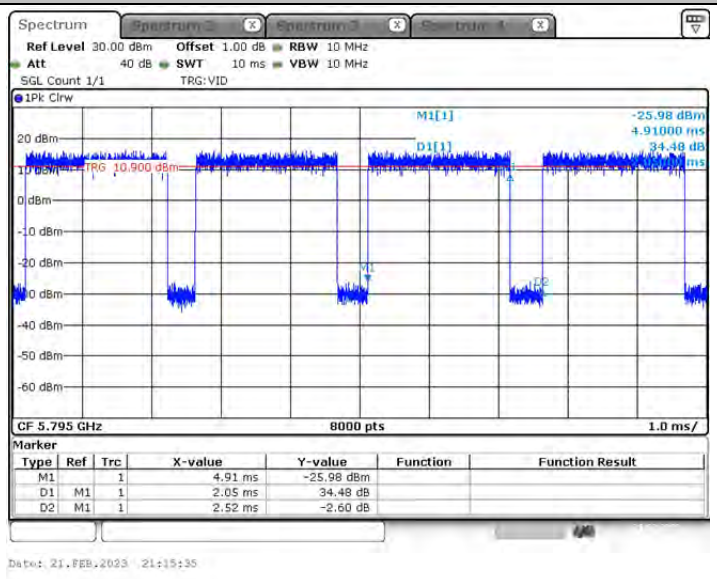


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