

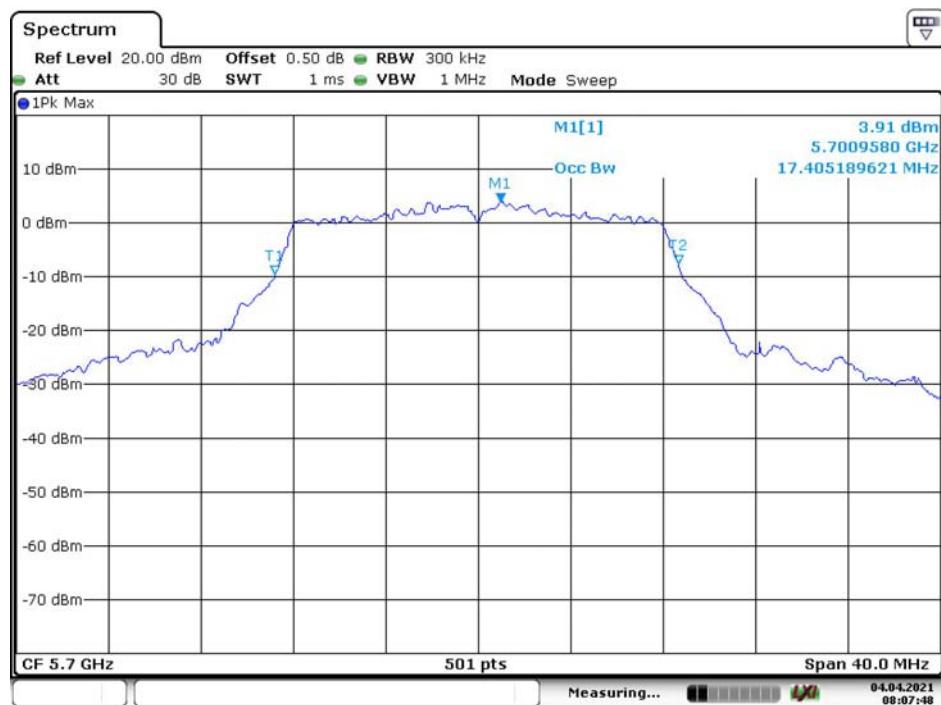
99% Occupied Bandwidth:**802.11a Low Channel**

Date: 4.APR.2021 08:03:30

802.11a Middle Channel

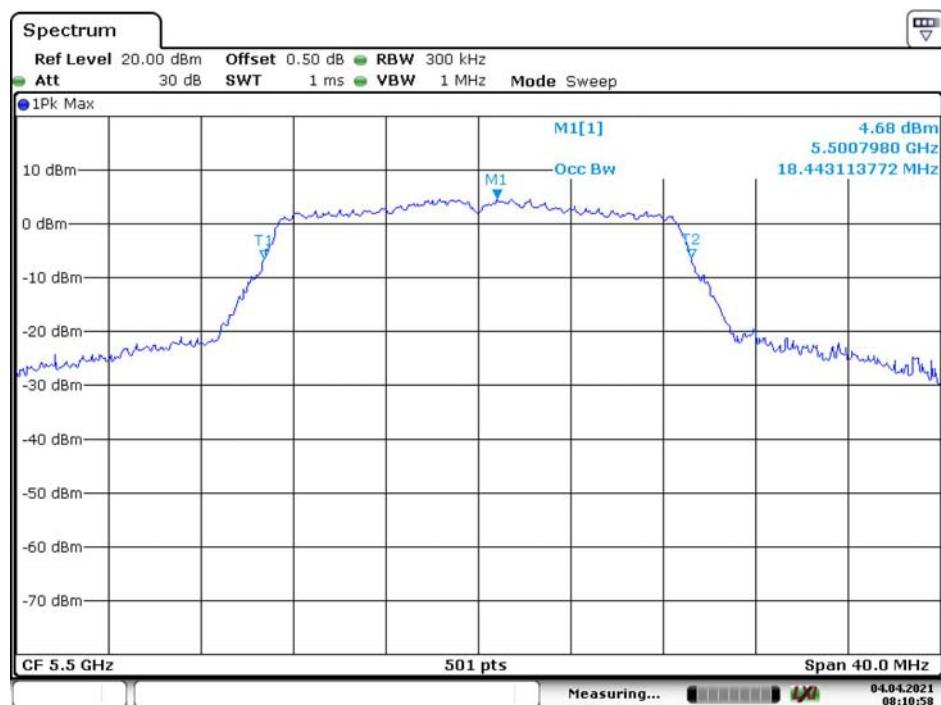
Date: 4.APR.2021 08:04:51

802.11a High Channel



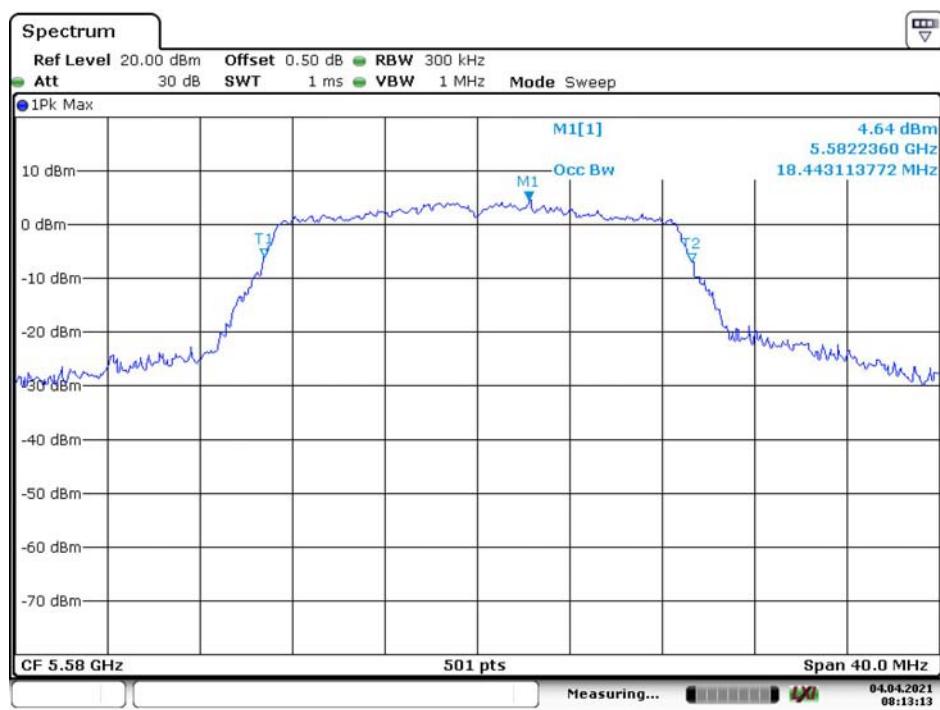
Date: 4.APR.2021 08:07:48

802.11n ht20 Low Channel



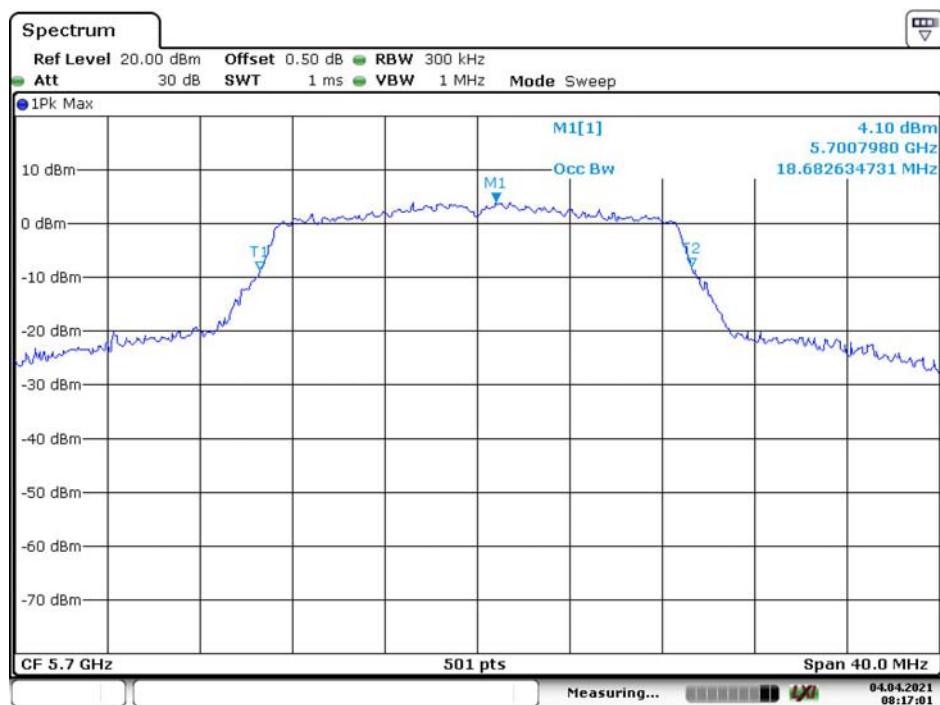
Date: 4.APR.2021 08:10:58

802.11n ht20 Middle Channel



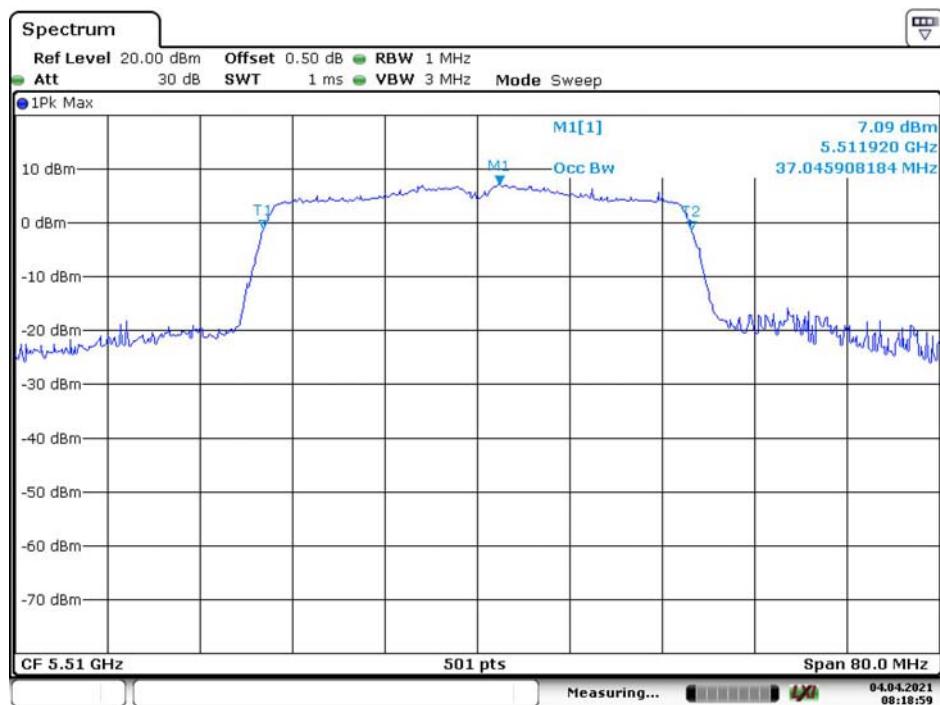
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802.11n ht20 High Channel



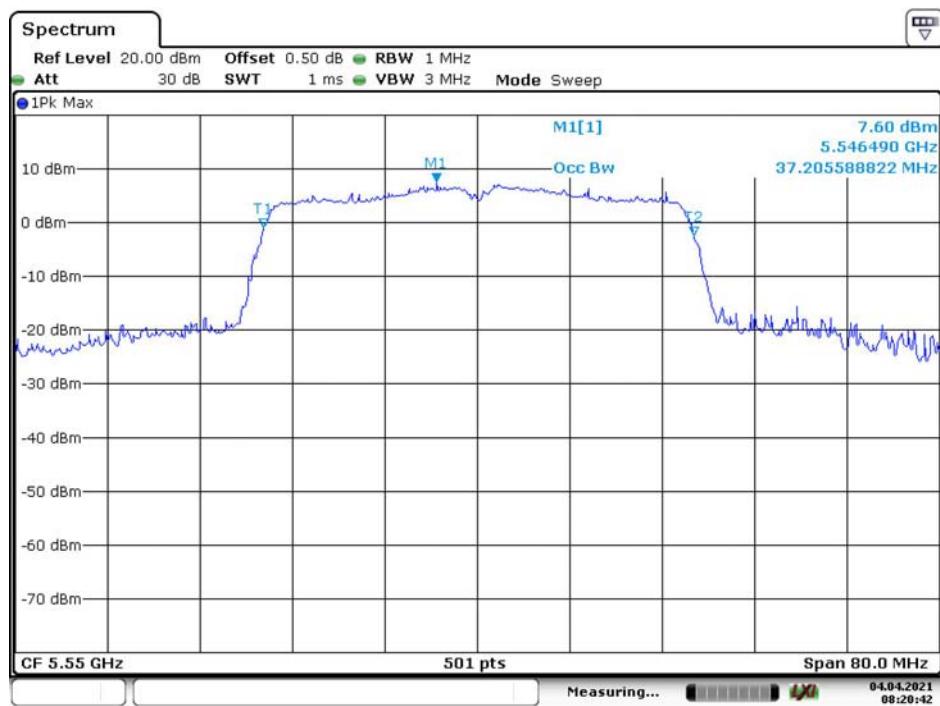
Date: 4.APR.2021 08:17:02

802.11n ht40 Low Channel

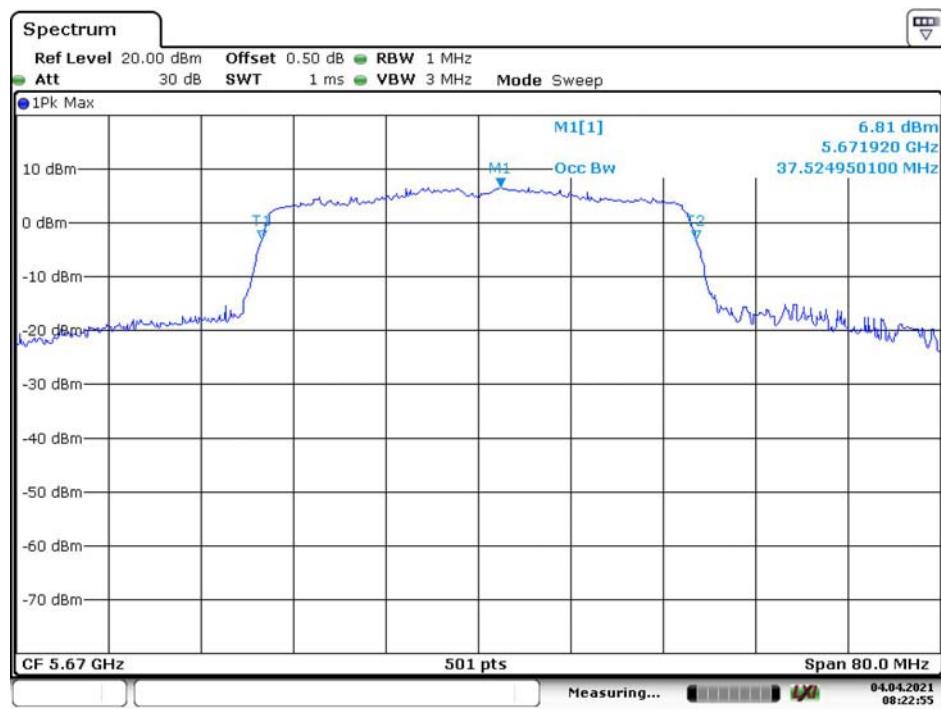


Date: 4.APR.2021 08:18:59

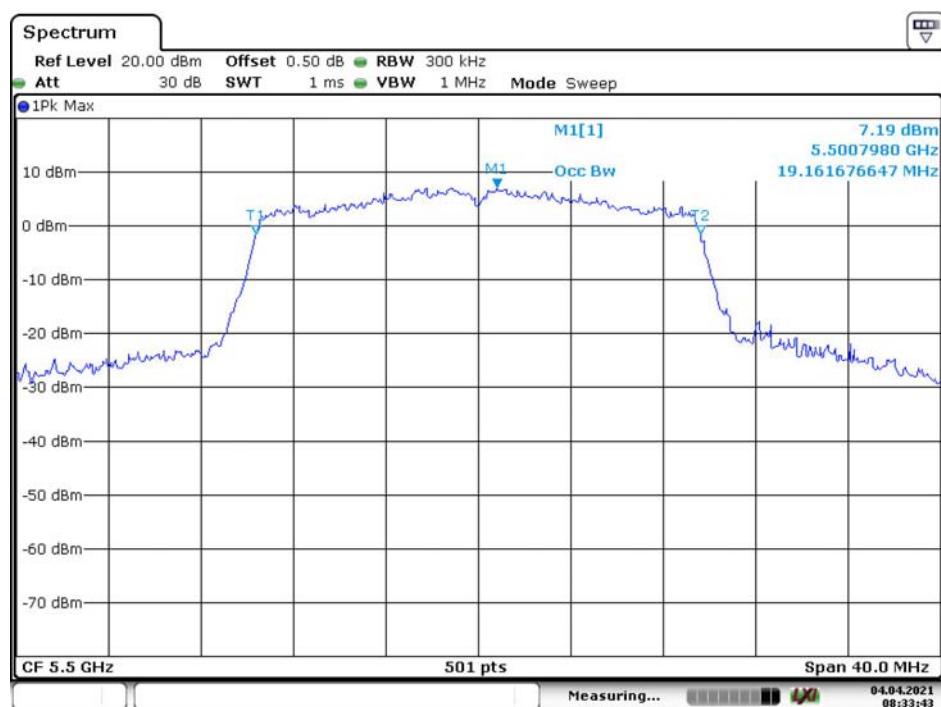
802.11n ht40 Middle Channel



Date: 4.APR.2021 08:20:42

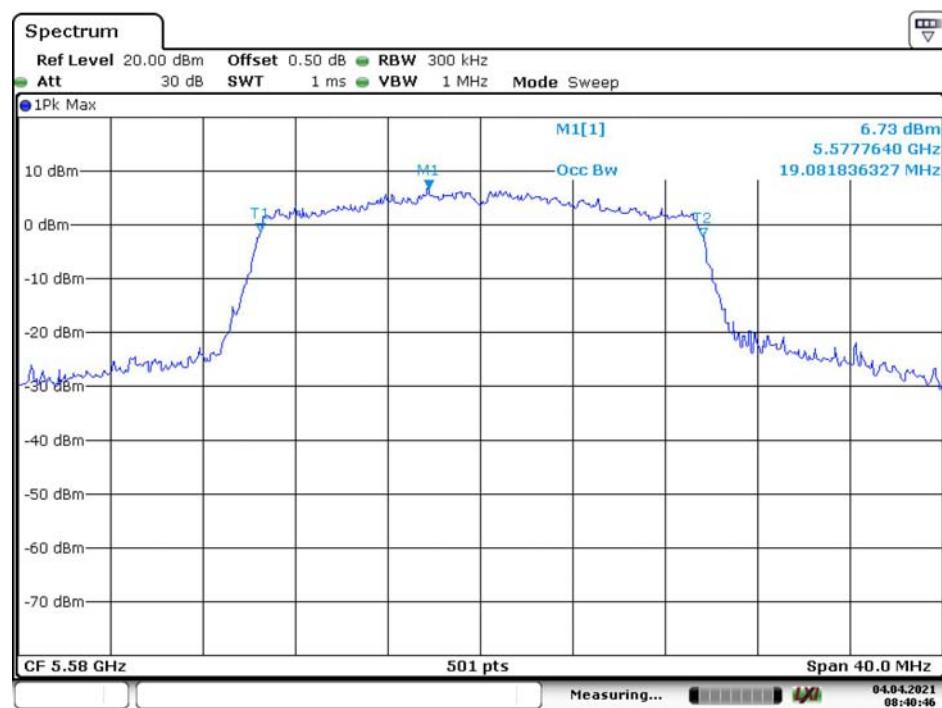
802.11n ht40 High Channel

Date: 4.APR.2021 08:22:55

802.11ax hew20 Low Channel

Date: 4.APR.2021 08:33:43

802.11ax hew20 Middle Channel



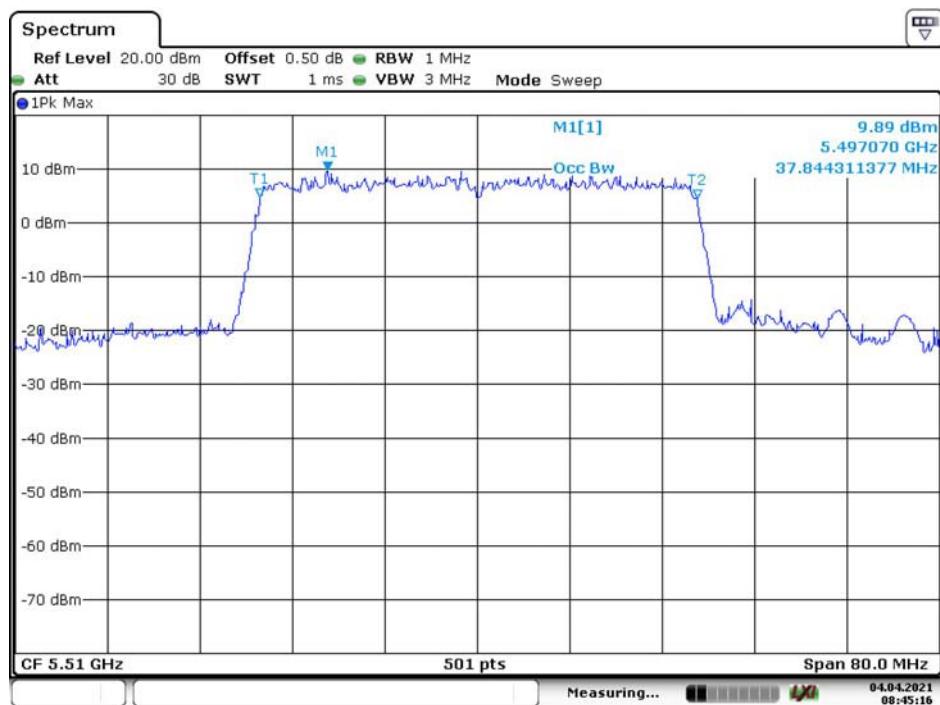
Date: 4.APR.2021 08:40:46

802.11ax hew20 High Channel



Date: 4.APR.2021 08:42:32

802.11ax hew40 Low Channel



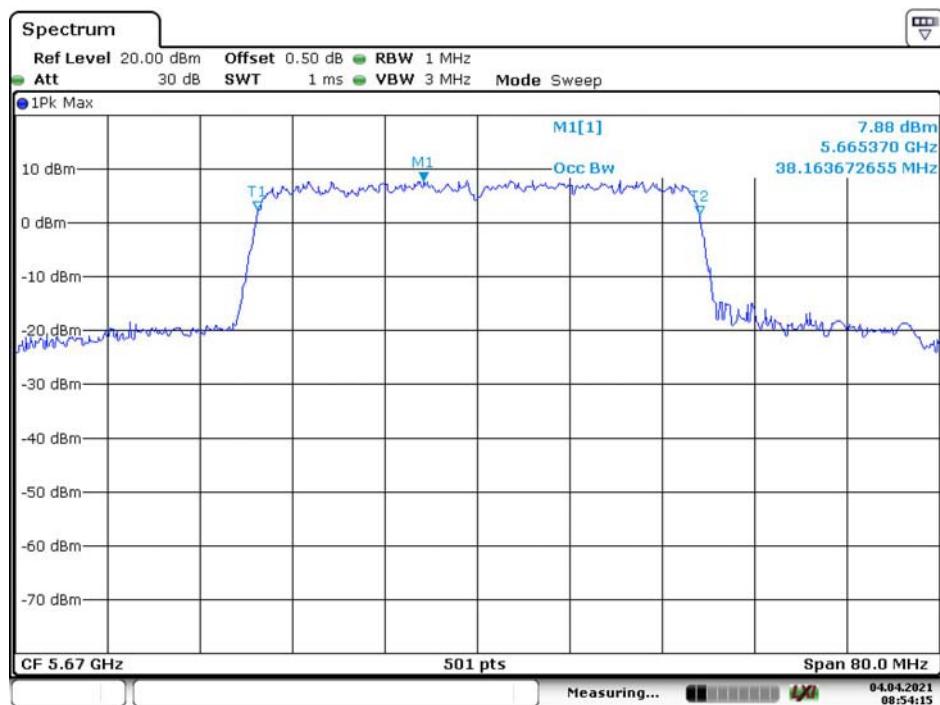
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802.11ax hew40 Middle Channel



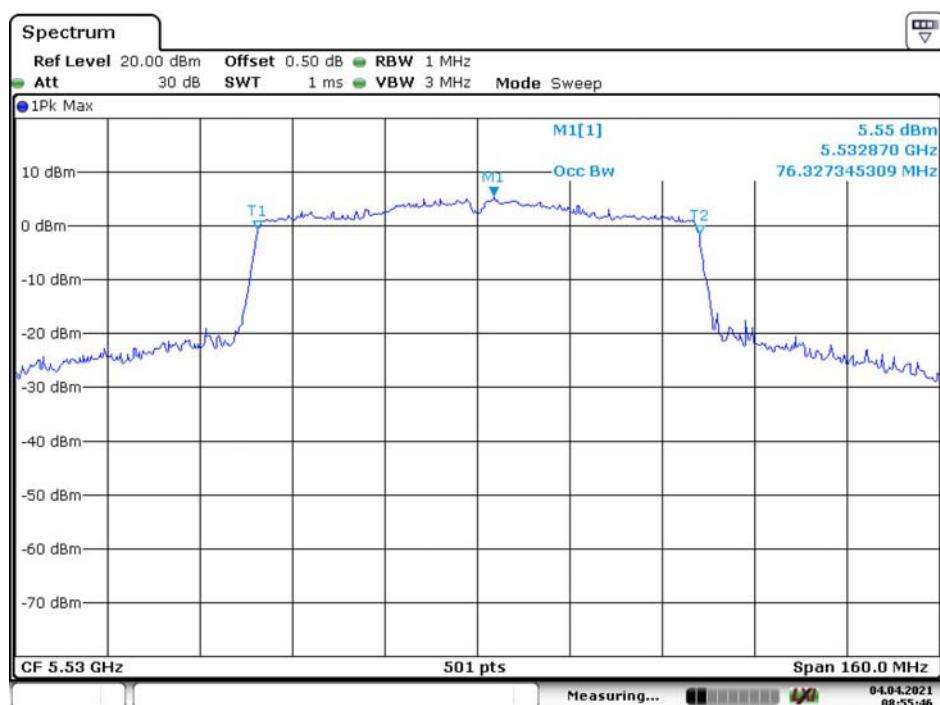
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802.11ax hew40 High Channel



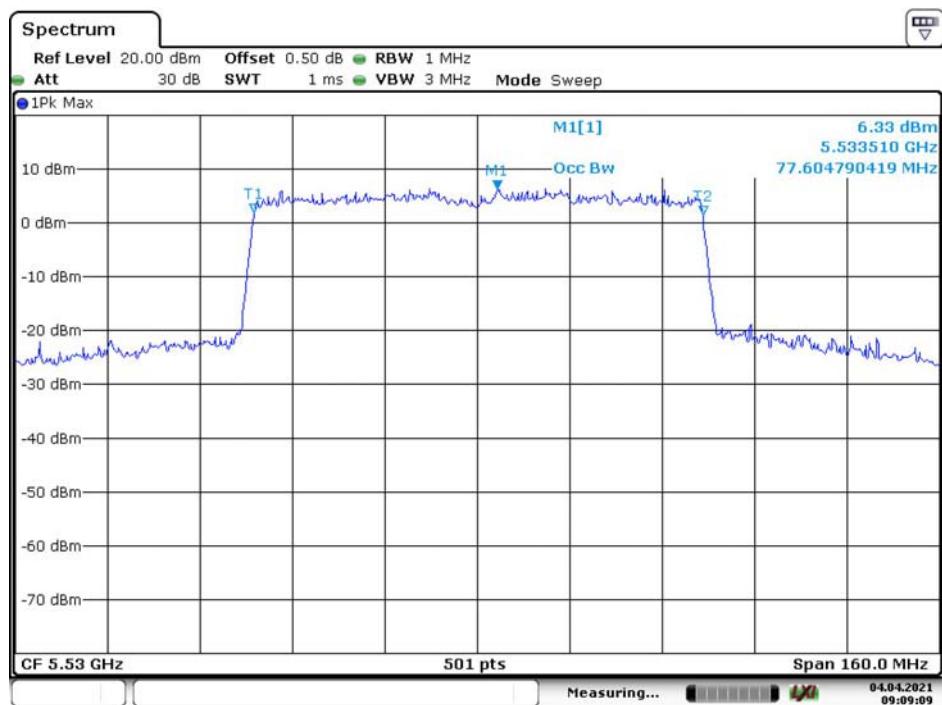
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802.11ac vht80 Low Channel



Date: 4.APR.2021 08:55:46

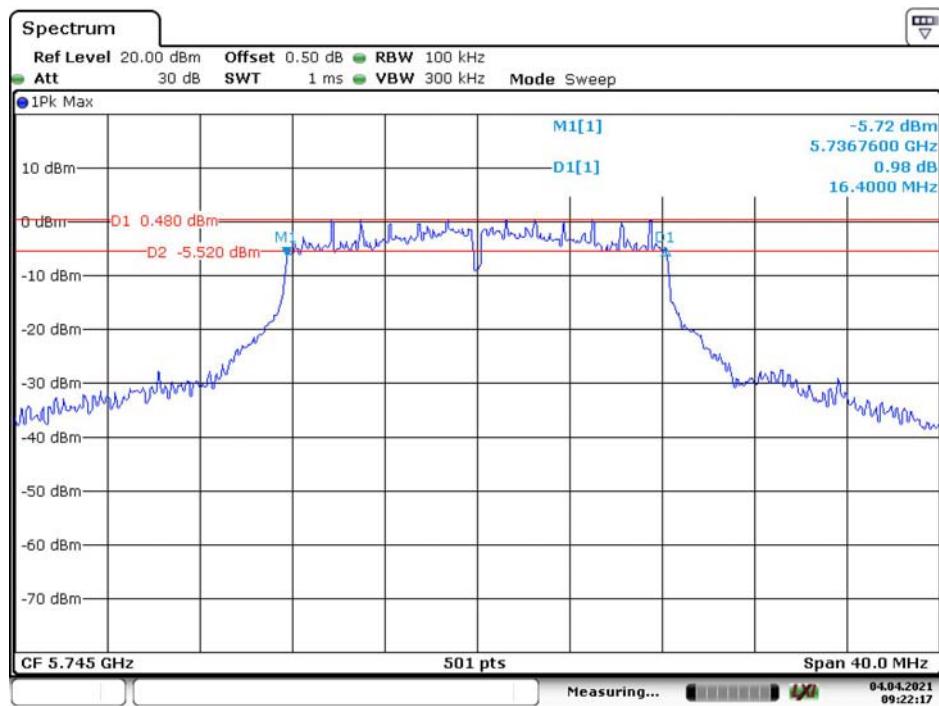
802.11ax hew80 Low Channel



Date: 4.APR.2021 09:09:09

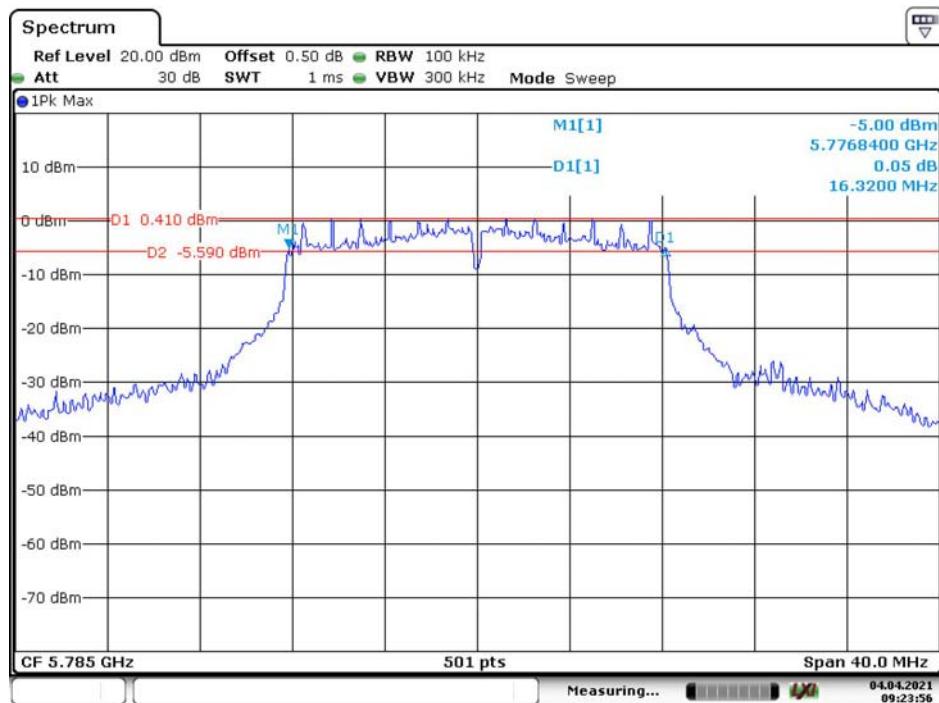
**5725-5850MHz:
6dB Emission Bandwidth:**

802.11a Low Channel



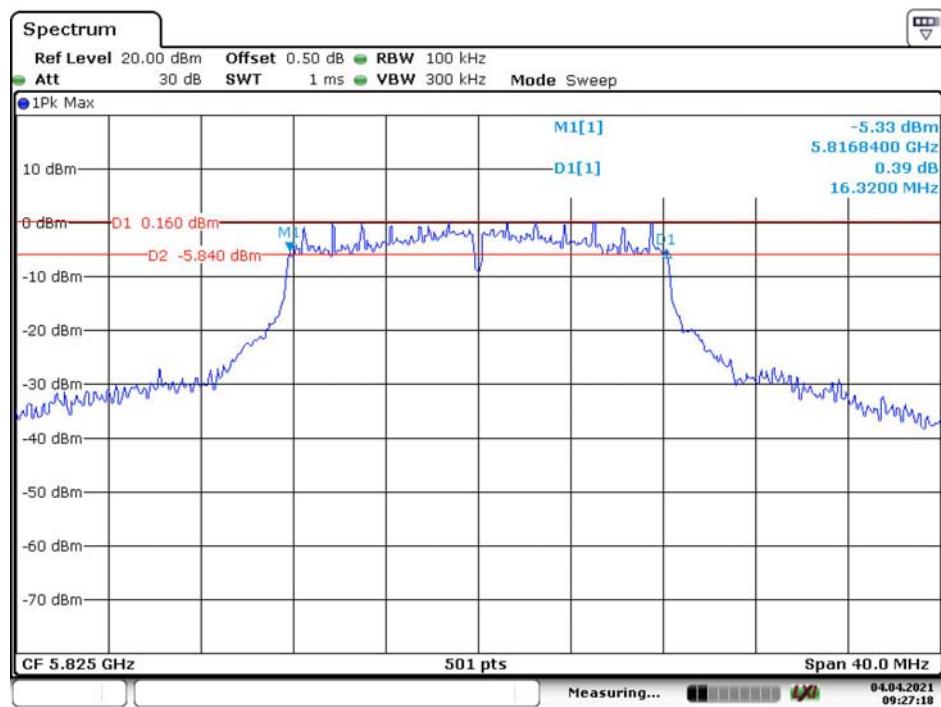
Date: 4.APR.2021 09:22:17

802.11a Middle Channel



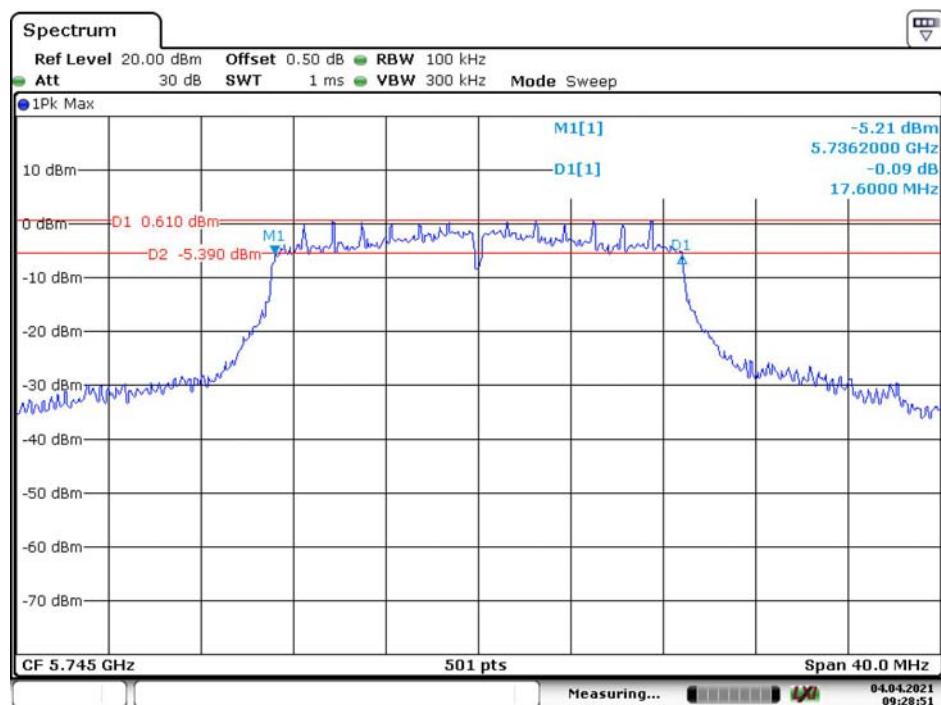
Date: 4.APR.2021 09:23:56

802.11a High Channel



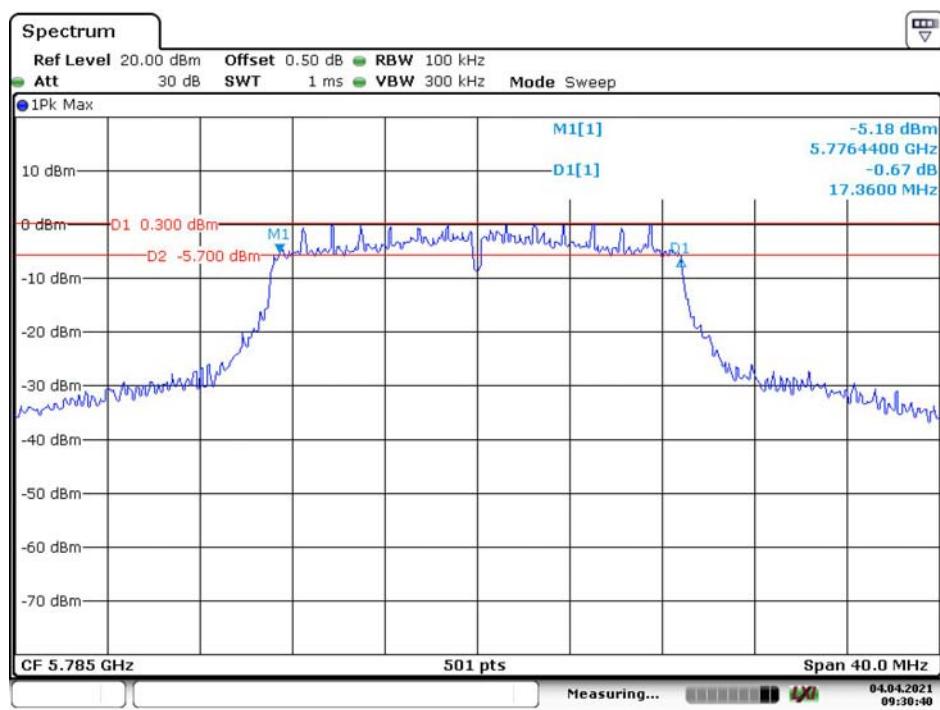
Date: 4.APR.2021 09:27:18

802.11n ht20 Low Channel



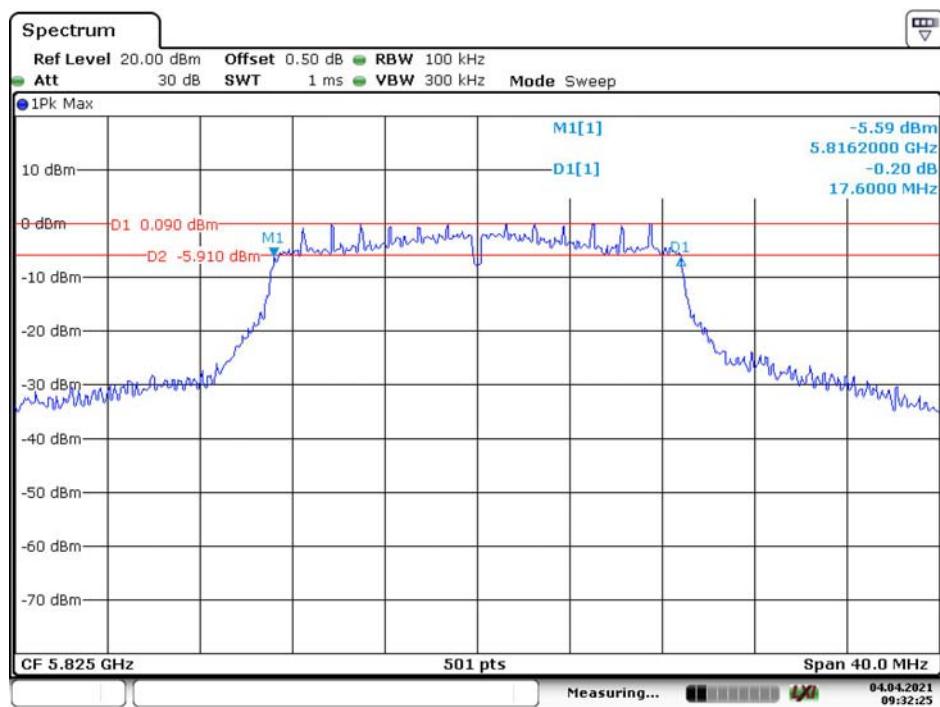
Date: 4.APR.2021 09:28:51

802.11n ht20 Middle Channel



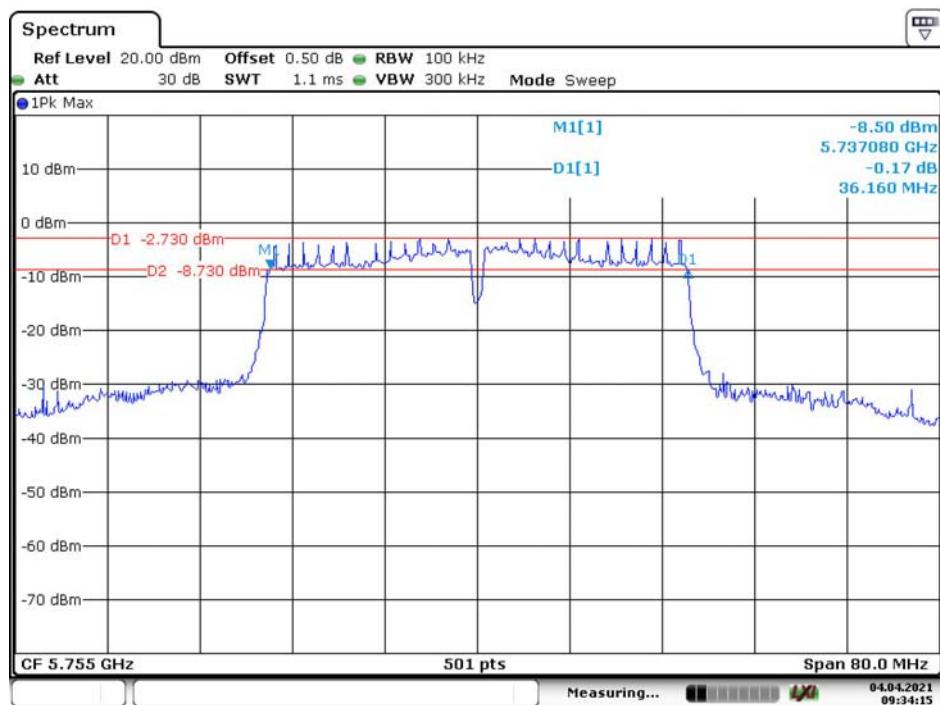
Date: 4.APR.2021 09:30:40

802.11n ht20 High Channel



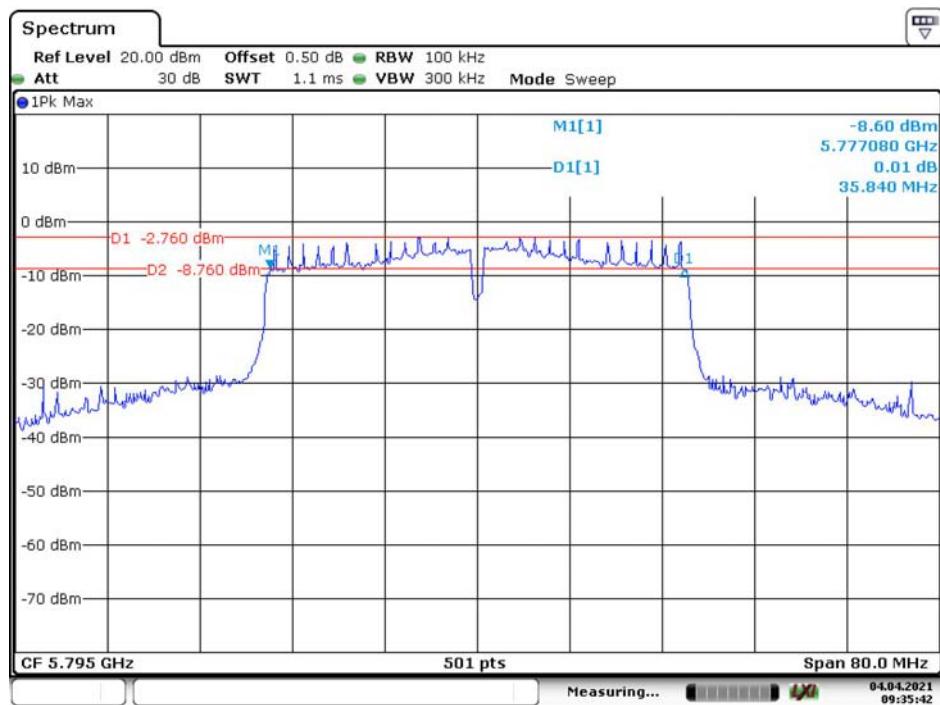
Date: 4.APR.2021 09:32:25

802.11n ht40 Low Channel



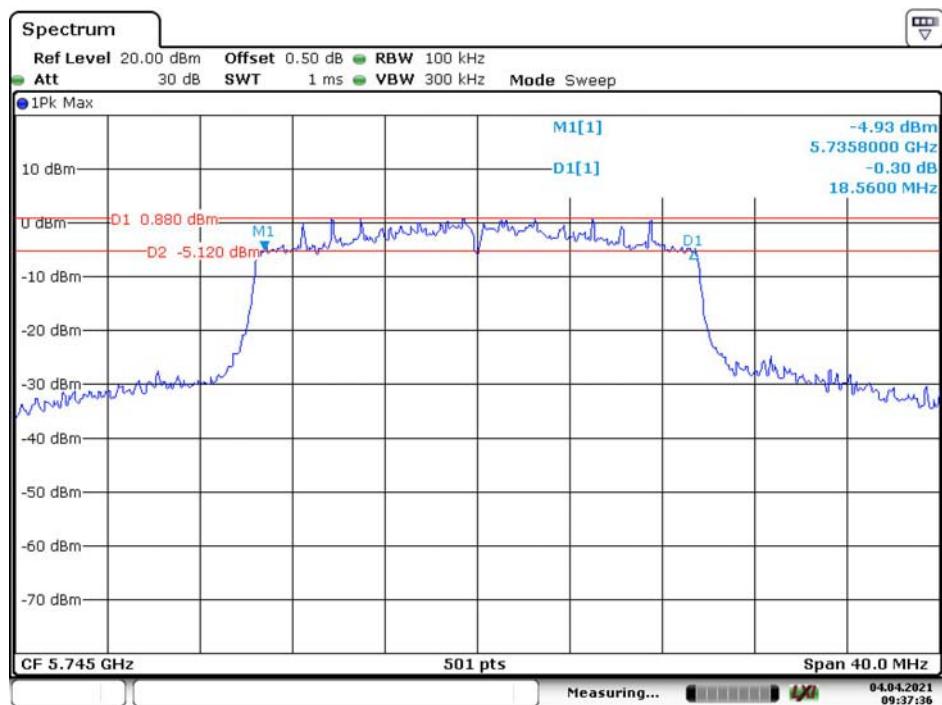
Date: 4.APR.2021 09:34:15

802.11n ht40 High Channel



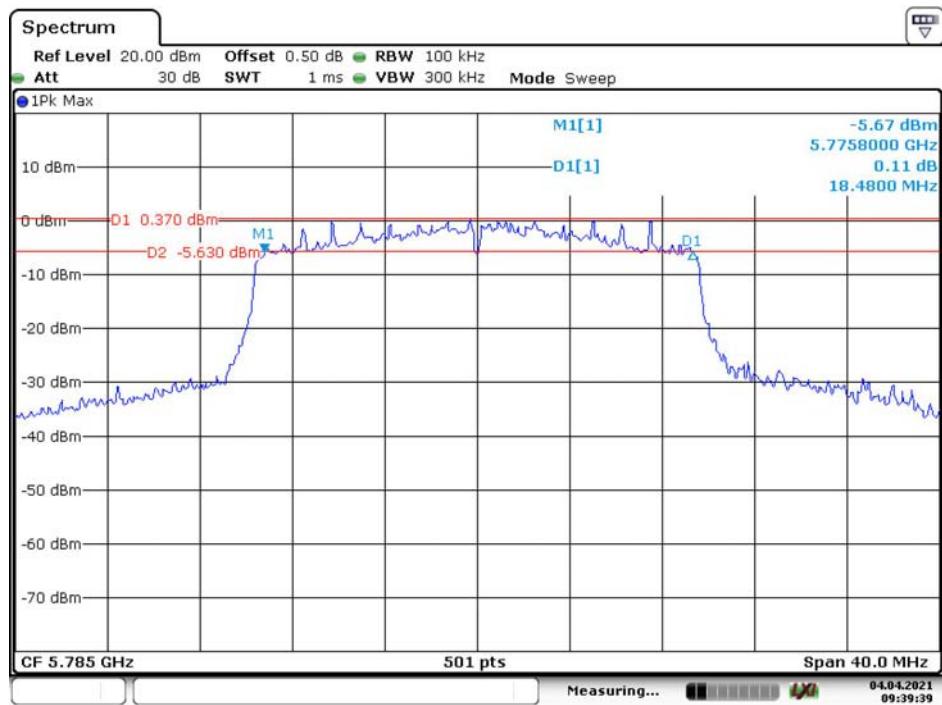
Date: 4.APR.2021 09:35:42

802.11ax hew20 Low Channel



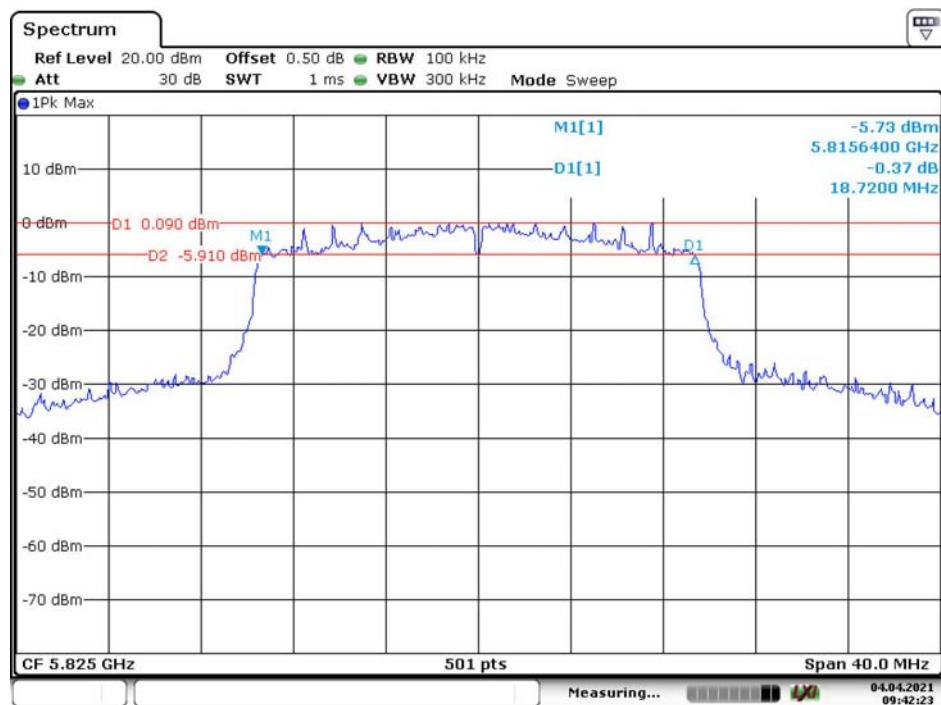
Date: 4.APR.2021 09:37:36

802.11ax hew20 Middle Channel



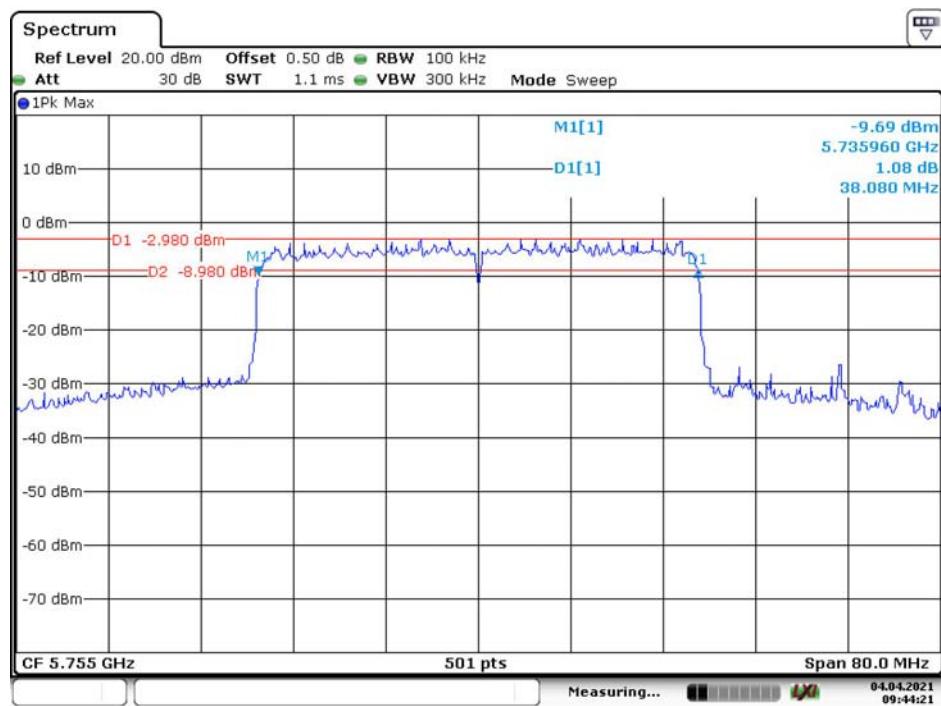
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802.11ax hew20 High Channel



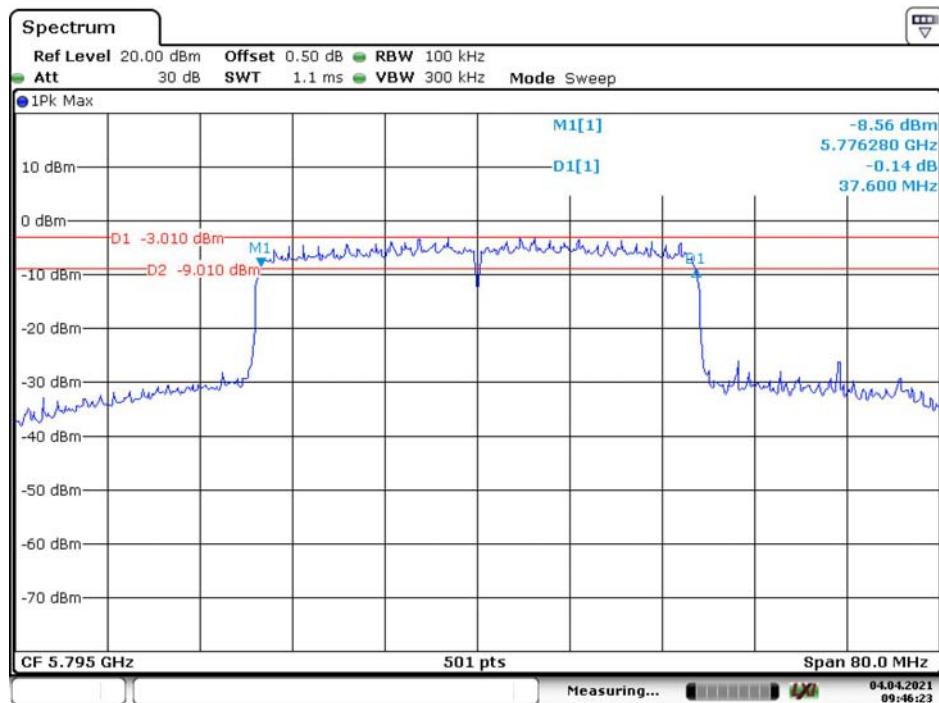
Date: 4.APR.2021 09:42:23

802.11ax hew40 Low Channel



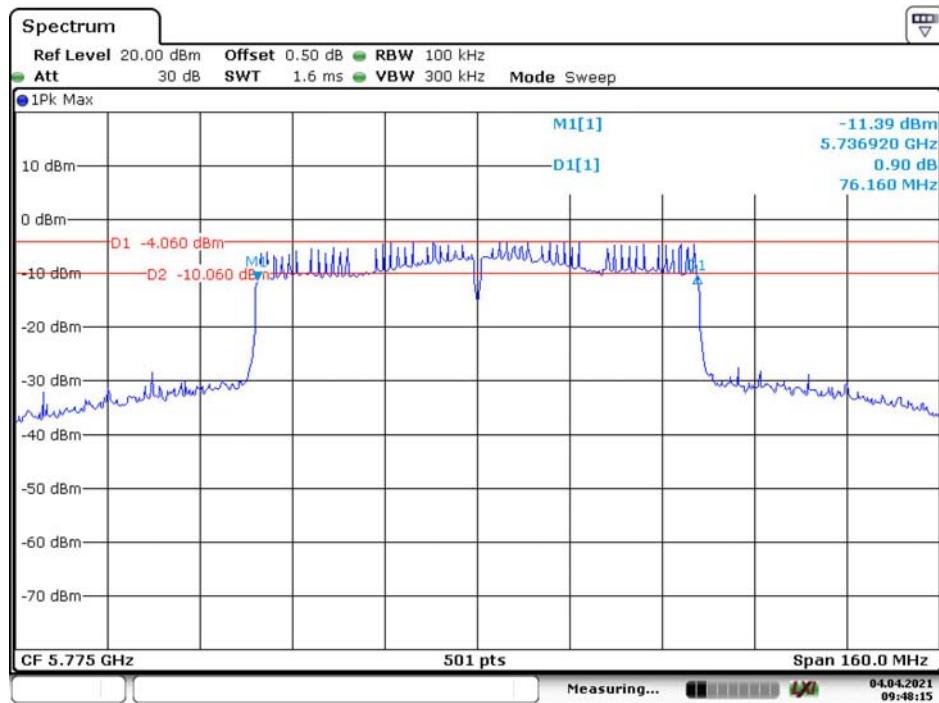
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802.11ax hew40 High Channel



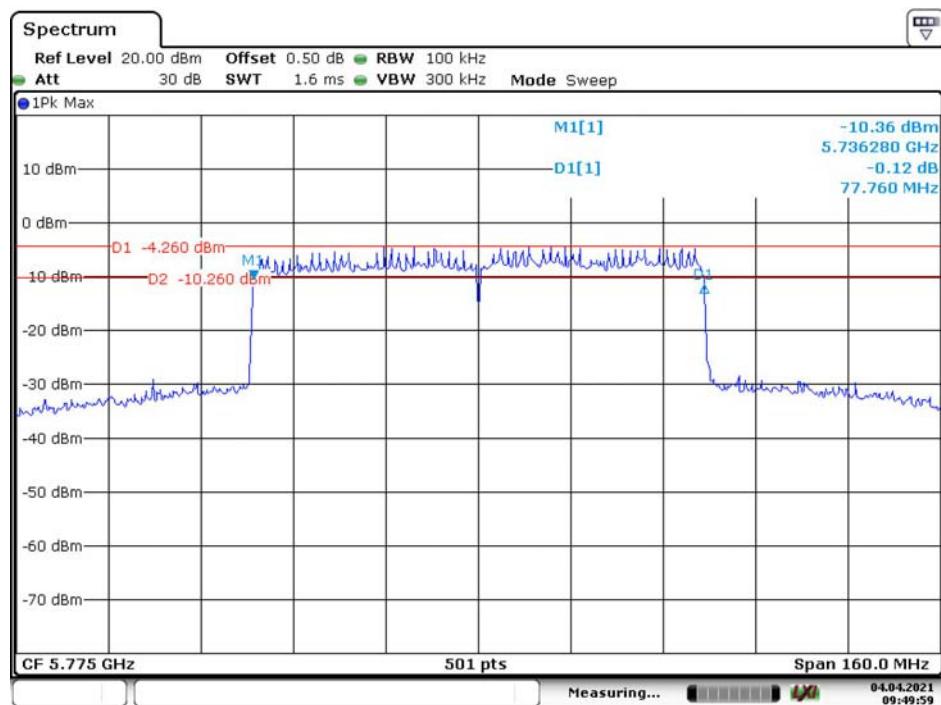
Date: 4.APR.2021 09:46:23

802.11ac vht80 Middle Channel



Date: 4.APR.2021 09:48:15

802.11ax hew80 Middle Channel



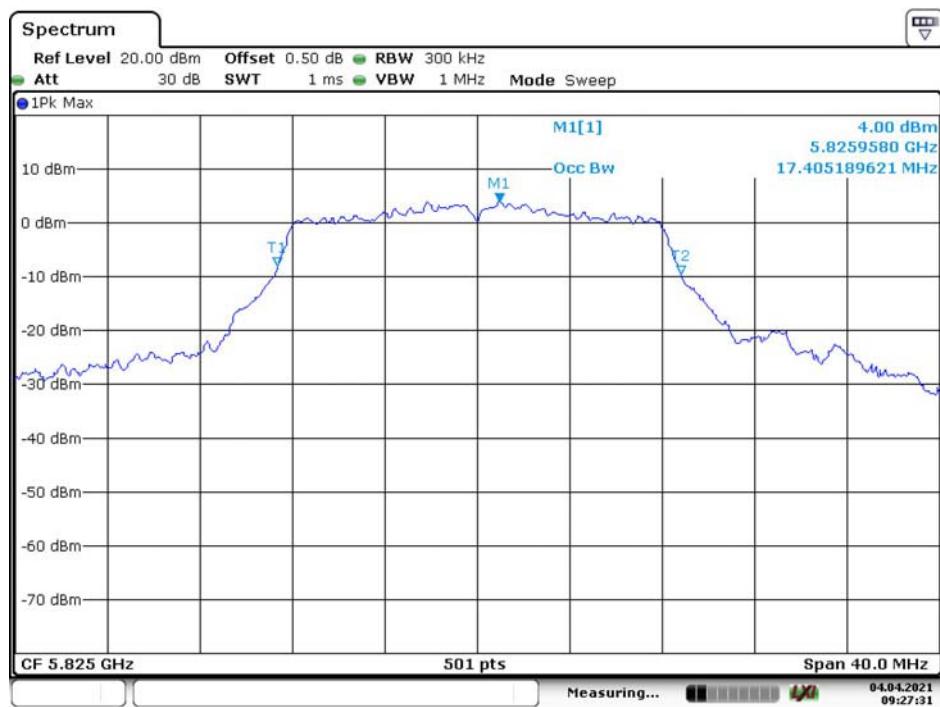
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99% Occupied Bandwidth:**802.11a Low Channel**

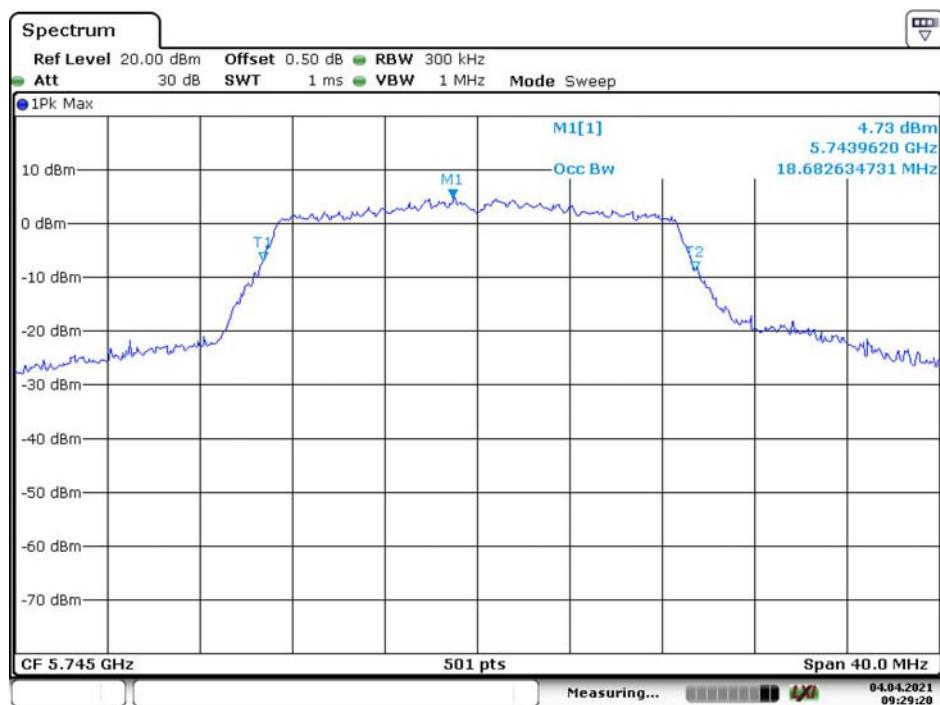
Date: 4.APR.2021 09:22:34

802.11a Middle Channel

Date: 4.APR.2021 09:24:10

802.11a High Channel

Date: 4.APR.2021 09:27:32

802.11n ht20 Low Channel

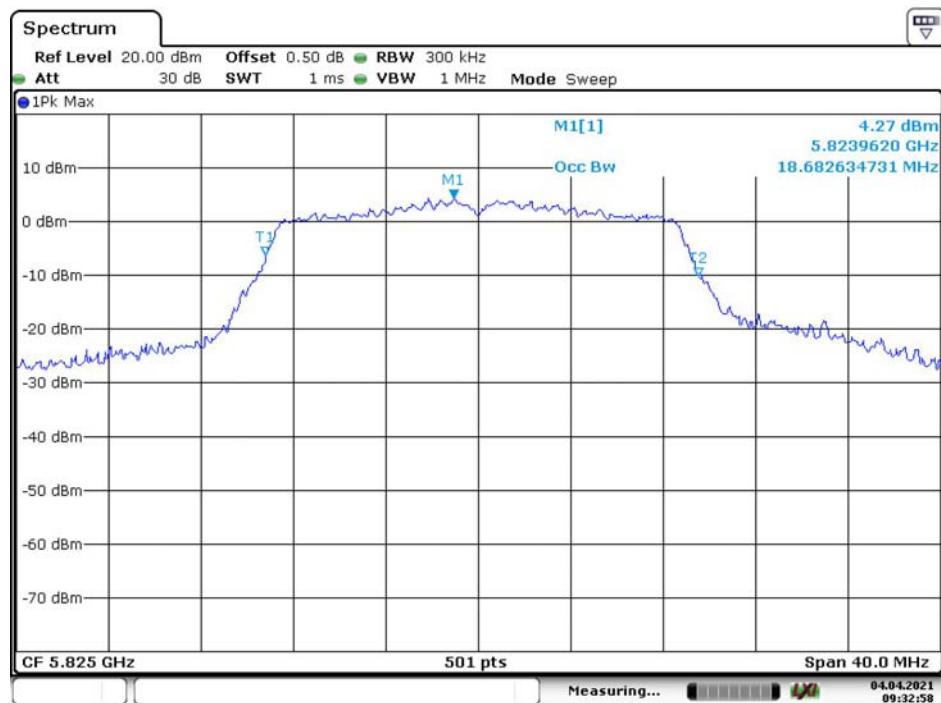
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802.11n ht20 Middle Channel



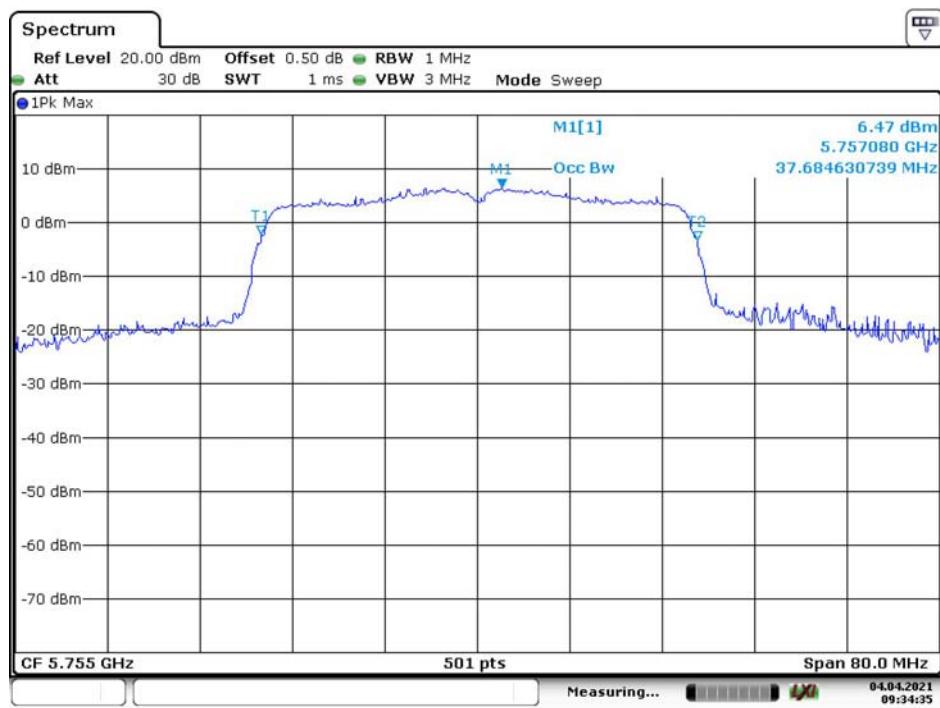
Date: 4.APR.2021 09:31:03

802.11n ht20 High Channel



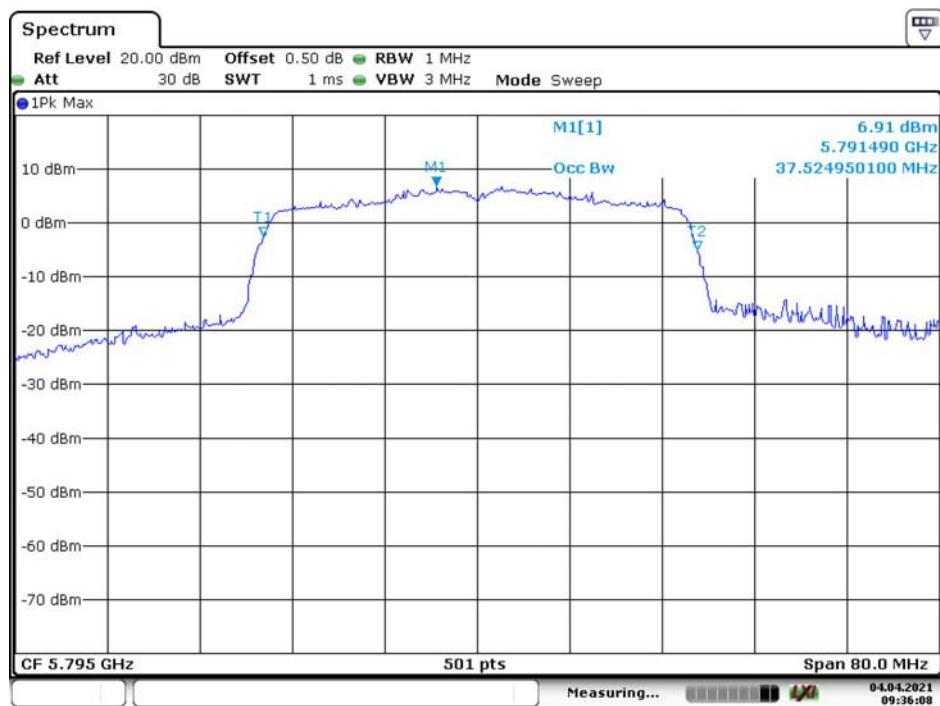
Date: 4.APR.2021 09:32:58

802.11n ht40 Low Channel



Date: 4.APR.2021 09:34:35

802.11n ht40 High Channel



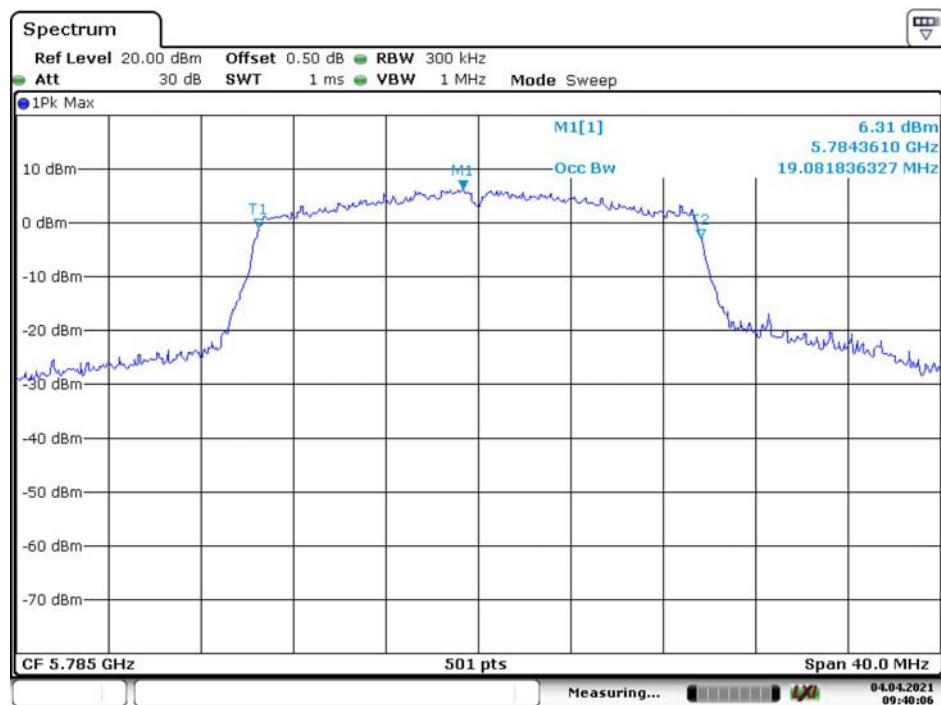
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802.11ax hew20 Low Channel



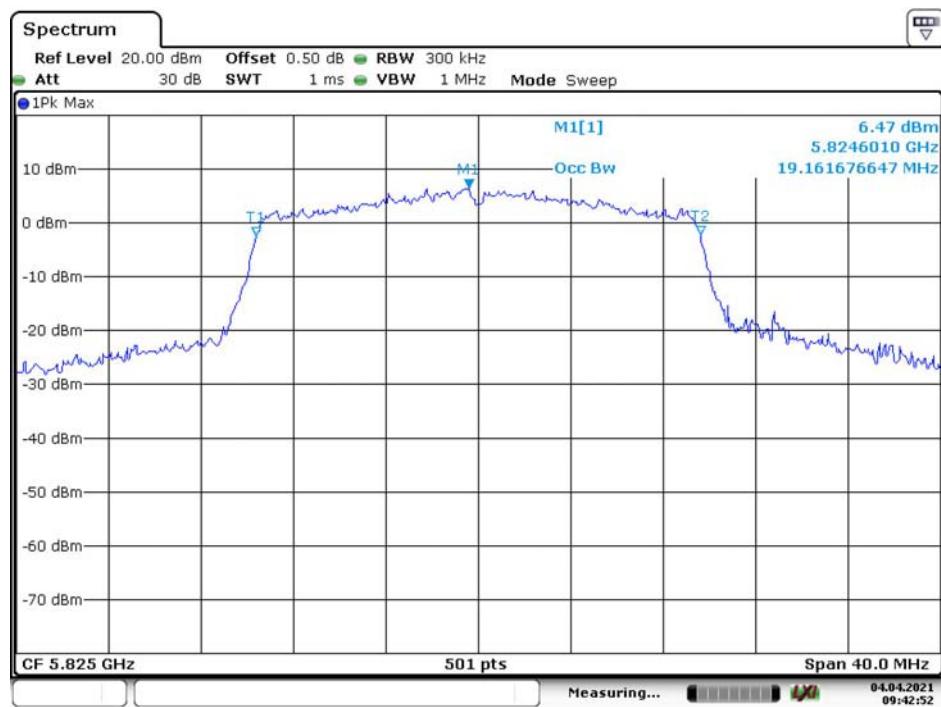
Date: 4.APR.2021 09:38:12

802.11ax hew20 Middle Channel



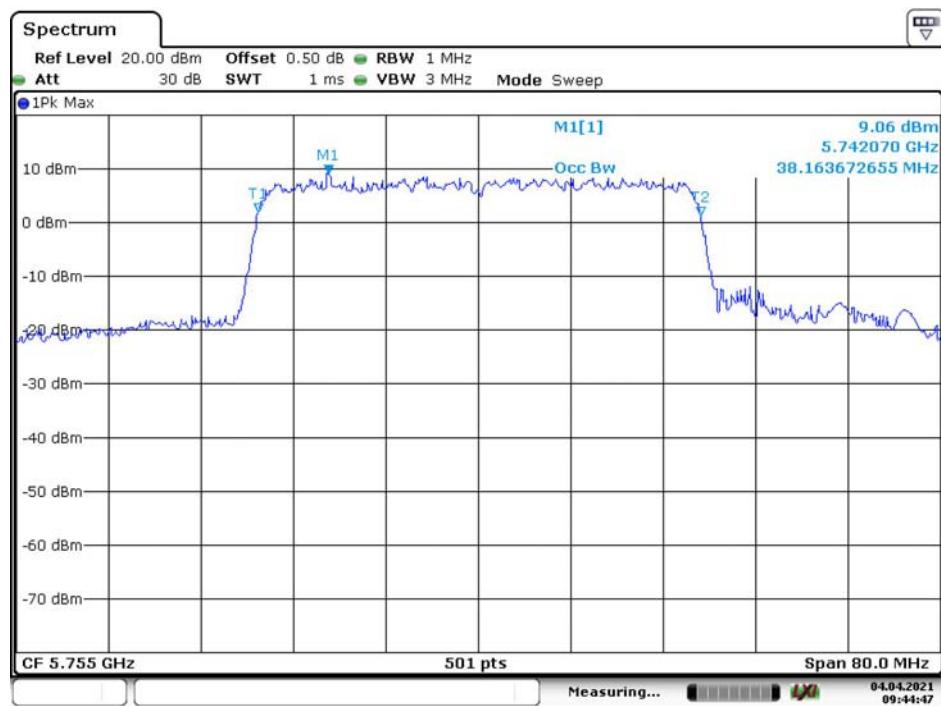
Date: 4.APR.2021 09:40:06

802.11ax hew20 High Channel



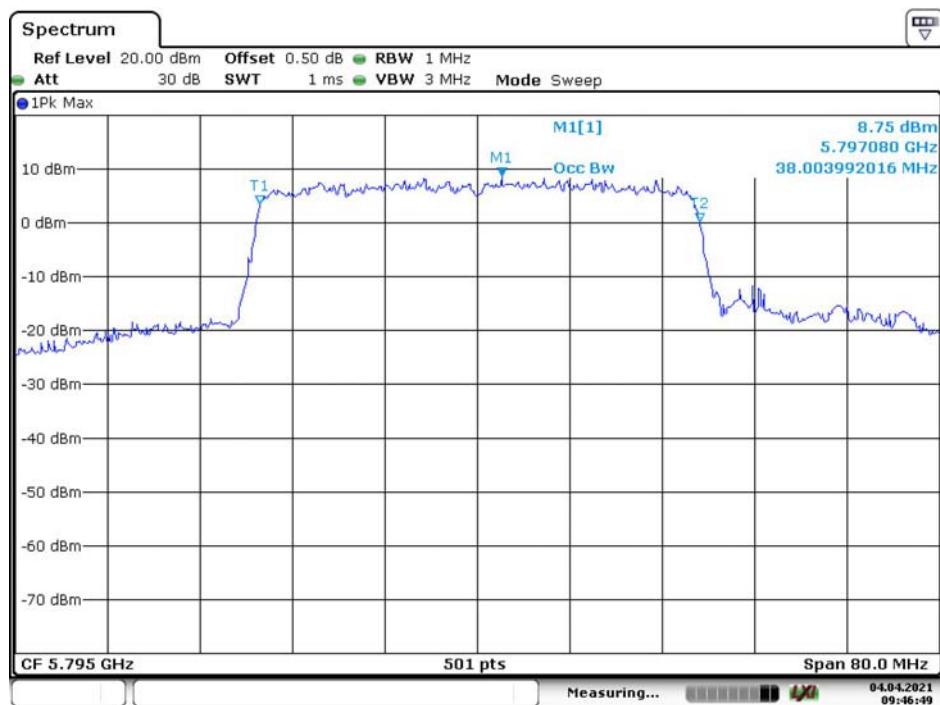
Date: 4.APR.2021 09:42:53

802.11ax hew40 Low Channel



Date: 4.APR.2021 09:44:47

802.11ax hew40 High Channel



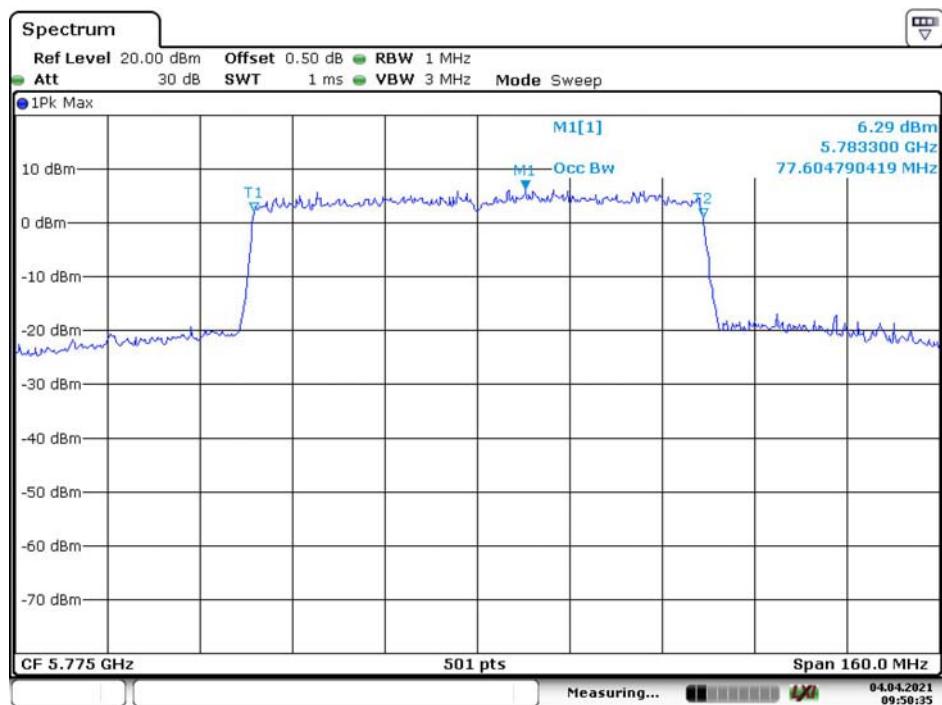
Date: 4.APR.2021 09:46:50

802.11ac vht80 Middle Channel



Date: 4.APR.2021 09:48:41

802.11ax hew80 Middle Channel



Date: 4.APR.2021 09:50:35

FCC §15.407(a) –MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.407(a)

(a) Power limits:

(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. 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 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.

(3) For the band 5.725-5.85 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 30 dBm in any 500-kHz 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(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.

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|---------------------------|--------------|---------------|------------------|----------------------|
| E-Microwave | Coaxial Attenuators | EMCA10-5RN-6 | OE01203239 | Each time | N/A |
| Unknown | Coaxial Cable | C-SJ00-0010 | C0010/01 | Each time | N/A |
| Agilent | USB Wideband Power Sensor | U2022XA | MY5417006 | 2020-09-12 | 2021-09-12 |

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Test Data

Environmental Conditions

| | |
|--------------------|-----------------------|
| Temperature: | 22.9~26.8 °C |
| Relative Humidity: | 52~69 % |
| ATM Pressure: | 100.4~101.9 kPa |
| Test by: | Tiger Mo |
| Test Date: | 2021-04-04~2021-05-07 |

Test Mode: Transmitting

5150-5250MHz:

| Mode | Frequency (MHz) | Conducted Average Output Power (dBm) | | | Limit (dBm) |
|----------------|-----------------|--------------------------------------|---------|-------|-------------|
| | | Chain 0 | Chain 1 | Total | |
| 802.11 a | 5180 | 11.61 | 11.4 | 14.52 | 24 |
| | 5200 | 11.41 | 11.43 | 14.43 | 24 |
| | 5240 | 11.77 | 11.51 | 14.65 | 24 |
| 802.11n ht20 | 5180 | 11.71 | 11.3 | 14.52 | 24 |
| | 5200 | 11.69 | 11.31 | 14.51 | 24 |
| | 5240 | 11.98 | 11.78 | 14.89 | 24 |
| 802.11n ht40 | 5190 | 11.56 | 11.97 | 14.78 | 24 |
| | 5230 | 11.61 | 11.37 | 14.5 | 24 |
| 802.11ax hew20 | 5180 | 10.32 | 11.36 | 13.88 | 24 |
| | 5200 | 10.21 | 11.44 | 13.88 | 24 |
| | 5240 | 10.17 | 11.79 | 14.07 | 24 |
| 802.11ax hew40 | 5190 | 11.74 | 11.37 | 14.57 | 24 |
| | 5230 | 11.69 | 11.72 | 14.72 | 24 |
| 802.11ac vht80 | 5210 | 11.55 | 11.6 | 14.59 | 24 |
| 802.11ax hew80 | 5210 | 11.59 | 11.7 | 14.66 | 24 |

5250-5350MHz:

| Mode | Frequency (MHz) | Conducted Average Output Power (dBm) | | | Limit (dBm) |
|----------------|-----------------|--------------------------------------|---------|-------|-------------|
| | | Chain 0 | Chain 1 | Total | |
| 802.11 a | 5260 | 11.96 | 11.87 | 14.93 | 24 |
| | 5280 | 11.98 | 11.95 | 14.98 | 24 |
| | 5320 | 12.04 | 11.39 | 14.74 | 24 |
| 802.11n ht20 | 5260 | 11.48 | 11.25 | 14.38 | 24 |
| | 5280 | 11.61 | 11.31 | 14.47 | 24 |
| | 5320 | 11.65 | 11.55 | 14.61 | 24 |
| 802.11n ht40 | 5270 | 11.58 | 11.85 | 14.73 | 24 |
| | 5310 | 11.54 | 11.78 | 14.67 | 24 |
| 802.11ax hew20 | 5260 | 10.67 | 11.47 | 14.1 | 24 |
| | 5280 | 10.87 | 11.48 | 14.2 | 24 |
| | 5320 | 10.94 | 11.46 | 14.22 | 24 |
| 802.11ax hew40 | 5270 | 11.45 | 11.92 | 14.7 | 24 |
| | 5310 | 11.69 | 11.95 | 14.83 | 24 |
| 802.11ac vht80 | 5290 | 11.39 | 11.31 | 14.36 | 24 |
| 802.11ax hew80 | 5290 | 11.45 | 11.56 | 14.52 | 24 |

5470-5725 MHz:

| Mode | Frequency (MHz) | Conducted Average Output Power (dBm) | | | Limit (dBm) |
|----------------|----------------------------|---|----------------|--------------|------------------------|
| | | Chain 0 | Chain 1 | Total | |
| 802.11 a | 5500 | 11.69 | 11.88 | 14.80 | 24 |
| | 5580 | 11.54 | 11.51 | 14.54 | 24 |
| | 5700 | 11.71 | 11.48 | 14.61 | 24 |
| 802.11n ht20 | 5500 | 11.65 | 11.82 | 14.75 | 24 |
| | 5580 | 11.56 | 11.37 | 14.48 | 24 |
| | 5700 | 11.75 | 11.31 | 14.55 | 24 |
| 802.11n ht40 | 5510 | 11.68 | 11.54 | 14.62 | 24 |
| | 5550 | 11.57 | 11.44 | 14.52 | 24 |
| | 5670 | 11.54 | 11.32 | 14.44 | 24 |
| 802.11ax hew20 | 5500 | 10.65 | 11.61 | 14.17 | 24 |
| | 5580 | 10.48 | 11.59 | 14.08 | 24 |
| | 5700 | 10.71 | 11.35 | 14.05 | 24 |
| 802.11ax hew40 | 5510 | 11.35 | 11.83 | 14.61 | 24 |
| | 5550 | 11.41 | 11.64 | 14.54 | 24 |
| | 5670 | 11.52 | 11.61 | 14.58 | 24 |
| 802.11ac vht80 | 5530 | 11.75 | 11.88 | 14.83 | 24 |
| 802.11ax hew80 | 5530 | 11.88 | 11.57 | 14.74 | 24 |

5725-5850 MHz:

| Mode | Frequency (MHz) | Conducted Average Output Power (dBm) | | | Limit (dBm) |
|----------------|----------------------------|---|----------------|--------------|------------------------|
| | | Chain 0 | Chain 1 | Total | |
| 802.11 a | 5745 | 11.54 | 11.98 | 14.78 | 30 |
| | 5785 | 11.36 | 11.99 | 14.70 | 30 |
| | 5825 | 11.65 | 11.62 | 14.65 | 30 |
| 802.11n ht20 | 5745 | 11.36 | 11.9 | 14.65 | 30 |
| | 5785 | 11.47 | 11.88 | 14.69 | 30 |
| | 5825 | 11.52 | 11.55 | 14.55 | 30 |
| 802.11n ht40 | 5755 | 11.41 | 11.29 | 14.36 | 30 |
| | 5795 | 11.38 | 11.25 | 14.33 | 30 |
| 802.11ax hew20 | 5745 | 10.59 | 11.92 | 14.32 | 30 |
| | 5785 | 10.51 | 11.98 | 14.32 | 30 |
| | 5825 | 10.68 | 11.68 | 14.22 | 30 |
| 802.11ax hew40 | 5755 | 11.44 | 11.47 | 14.47 | 30 |
| | 5795 | 11.54 | 11.37 | 14.47 | 30 |
| 802.11ac vht80 | 5775 | 11.62 | 11.58 | 14.61 | 30 |
| 802.11ax hew80 | 5775 | 11.77 | 11.61 | 14.7 | 30 |

Note:

The duty cycle factor has been calculated into the test data.

The antenna gain is 1.5 dBi. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

So:

Directional gain = 1.5 dBi

FCC §15.407(a) - POWER SPECTRAL DENSITY

Applicable Standard

According to FCC §15.407(a)

(a) Power limits:

(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. 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 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.

(3) For the band 5.725-5.85 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 30 dBm in any 500-kHz 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|-------------------|-------------|---------------|------------------|----------------------|
| Unknown | Coaxial Cable | C-SJ00-0010 | C0010/01 | Each time | N/A |
| R&S | Spectrum Analyzer | FSU 26 | 200256 | 2020-07-07 | 2021-07-07 |

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

| | |
|--------------------|-----------------------|
| Temperature: | 22.9~26.8 °C |
| Relative Humidity: | 52~69 % |
| ATM Pressure: | 100.4~101.9 kPa |
| Test by: | Tiger Mo |
| Test Date: | 2021-04-04~2021-05-07 |

Test Mode: Transmitting

Test Result: Compliance. Please refer to the following table and plot.

5150-5250MHz:

| Mode | Frequency (MHz) | Maximum Power Spectral Density (dBm/MHz) | | | Limit (dBm/MHz) |
|----------------|-----------------|--|---------|-------|-----------------|
| | | Chain 0 | Chain 1 | Total | |
| 802.11a | 5180 | 3.84 | 3.60 | 6.73 | 11 |
| | 5200 | 4.07 | 3.44 | 6.78 | 11 |
| | 5240 | 3.79 | 3.56 | 6.69 | 11 |
| 802.11n ht20 | 5180 | 3.76 | 3.31 | 6.55 | 11 |
| | 5200 | 4.50 | 3.16 | 6.89 | 11 |
| | 5240 | 3.52 | 3.62 | 6.58 | 11 |
| 802.11n ht40 | 5190 | 0.79 | 0.59 | 3.7 | 11 |
| | 5230 | 1.00 | 0.67 | 3.85 | 11 |
| 802.11ax hew20 | 5180 | 4.65 | 4.52 | 7.6 | 11 |
| | 5200 | 4.69 | 5.08 | 7.9 | 11 |
| | 5240 | 4.47 | 4.66 | 7.58 | 11 |
| 802.11ax hew40 | 5190 | 2.74 | 2.30 | 5.54 | 11 |
| | 5230 | 2.70 | 2.62 | 5.67 | 11 |
| 802.11ac vht80 | 5210 | -2.54 | -2.50 | 0.49 | 11 |
| 802.11ax hew80 | 5210 | -0.48 | -0.62 | 2.46 | 11 |

5250-5350MHz:

| Mode | Frequency (MHz) | Maximum Power Spectral Density (dBm/MHz) | | | Limit (dBm/MHz) |
|----------------|-----------------|--|---------|-------|-----------------|
| | | Chain 0 | Chain 1 | Total | |
| 802.11a | 5260 | 4.04 | 3.35 | 6.72 | 11 |
| | 5280 | 4.01 | 3.53 | 6.79 | 11 |
| | 5320 | 4.49 | 4.61 | 7.56 | 11 |
| 802.11n ht20 | 5260 | 4.23 | 3.86 | 7.06 | 11 |
| | 5280 | 4.43 | 4.10 | 7.28 | 11 |
| | 5320 | 4.60 | 4.48 | 7.55 | 11 |
| 802.11n ht40 | 5270 | 1.01 | 0.81 | 3.92 | 11 |
| | 5310 | 1.02 | 1.18 | 4.11 | 11 |
| 802.11ax hew20 | 5260 | 4.15 | 4.72 | 7.45 | 11 |
| | 5280 | 4.39 | 4.04 | 7.23 | 11 |
| | 5320 | 4.49 | 4.38 | 7.45 | 11 |
| 802.11ax hew40 | 5270 | 2.25 | 2.92 | 5.61 | 11 |
| | 5310 | 2.58 | 2.67 | 5.64 | 11 |
| 802.11ac vht80 | 5290 | -2.58 | -2.32 | 0.56 | 11 |
| 802.11ax hew80 | 5290 | -0.48 | -0.62 | 2.46 | 11 |

5470-5725 MHz:

| Mode | Frequency (MHz) | Maximum Power Spectral Density (dBm/MHz) | | | Limit (dBm/MHz) |
|----------------|-----------------|--|---------|-------|-----------------|
| | | Chain 0 | Chain 1 | Total | |
| 802.11a | 5500 | 4.52 | 4.87 | 7.71 | 11 |
| | 5580 | 4.20 | 4.46 | 7.34 | 11 |
| | 5700 | 4.06 | 3.54 | 6.82 | 11 |
| 802.11n ht20 | 5500 | 3.59 | 4.82 | 7.26 | 11 |
| | 5580 | 3.56 | 4.24 | 6.92 | 11 |
| | 5700 | 3.99 | 4.22 | 7.12 | 11 |
| 802.11n ht40 | 5510 | 0.46 | 1.06 | 3.78 | 11 |
| | 5550 | 0.75 | 0.55 | 3.66 | 11 |
| | 5670 | 0.90 | 0.87 | 3.9 | 11 |
| 802.11ax hew20 | 5500 | 4.61 | 4.61 | 7.62 | 11 |
| | 5580 | 4.73 | 4.74 | 7.75 | 11 |
| | 5700 | 4.36 | 4.62 | 7.5 | 11 |
| 802.11ax hew40 | 5510 | 2.15 | 2.72 | 5.45 | 11 |
| | 5550 | 2.21 | 2.31 | 5.27 | 11 |
| | 5670 | 2.59 | 2.22 | 5.42 | 11 |
| 802.11ac vht80 | 5530 | -2.33 | -2.20 | 0.75 | 11 |
| 802.11ax hew80 | 5530 | -0.39 | -0.61 | 2.51 | 11 |

5725-5850 MHz:

| Mode | Channel | Frequency (MHz) | Result (dBm/300kHz) | | | Maximum Power Spectral Density (dBm/500kHz) | Limit (dBm/500kHz) |
|----------------|---------|-----------------|---------------------|---------|-------|---|--------------------|
| | | | Chain 0 | Chain 1 | Total | | |
| 802.11 a | Low | 5745 | 3.86 | 3.88 | 6.88 | 9.10 | 30 |
| | Middle | 5785 | 3.80 | 3.50 | 6.66 | 8.88 | |
| | High | 5825 | 4.14 | 3.86 | 7.01 | 9.23 | |
| 802.11n ht20 | Low | 5745 | 3.34 | 3.59 | 6.48 | 8.70 | 30 |
| | Middle | 5785 | 3.50 | 3.20 | 6.36 | 8.58 | |
| | High | 5825 | 3.09 | 2.95 | 6.03 | 8.25 | |
| 802.11n ht40 | Low | 5755 | 0.50 | 1.00 | 3.77 | 5.99 | 30 |
| | High | 5795 | 0.09 | 1.25 | 3.72 | 5.94 | |
| 802.11ax hew20 | Low | 5745 | 4.28 | 3.95 | 7.13 | 9.35 | 30 |
| | Middle | 5785 | 4.48 | 3.91 | 7.21 | 9.43 | |
| | High | 5825 | 4.65 | 4.22 | 7.45 | 9.67 | |
| 802.11ax hew40 | Low | 5755 | 2.21 | 2.23 | 5.23 | 7.45 | 30 |
| | High | 5795 | 2.25 | 2.28 | 5.28 | 7.50 | |
| 802.11ac vht80 | Middle | 5775 | -2.92 | -2.66 | 0.22 | 2.44 | 30 |
| 802.11ax hew80 | Middle | 5775 | -0.58 | -0.71 | 2.37 | 4.59 | |

Note:

The maximum antenna gain is 1.5dBi in 5GHz band. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:

$$\text{Array Gain} = 10 \log(N_{\text{ANT}}/N_{\text{SS}}) \text{ dB.}$$

So:

$$\text{Directional gain} = G_{\text{ANT}} + \text{Array Gain} = 1.5 \text{dBi} + 10 \log(2/1) = 4.5 \text{ dBi}$$

For 5.8GHz band, If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log(500 \text{kHz}/\text{RBW})$ to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

5150-5250MHz
Chain 0

802.11a Low Channel



Date: 30.APR.2021 08:03:26

802.11a Middle Channel



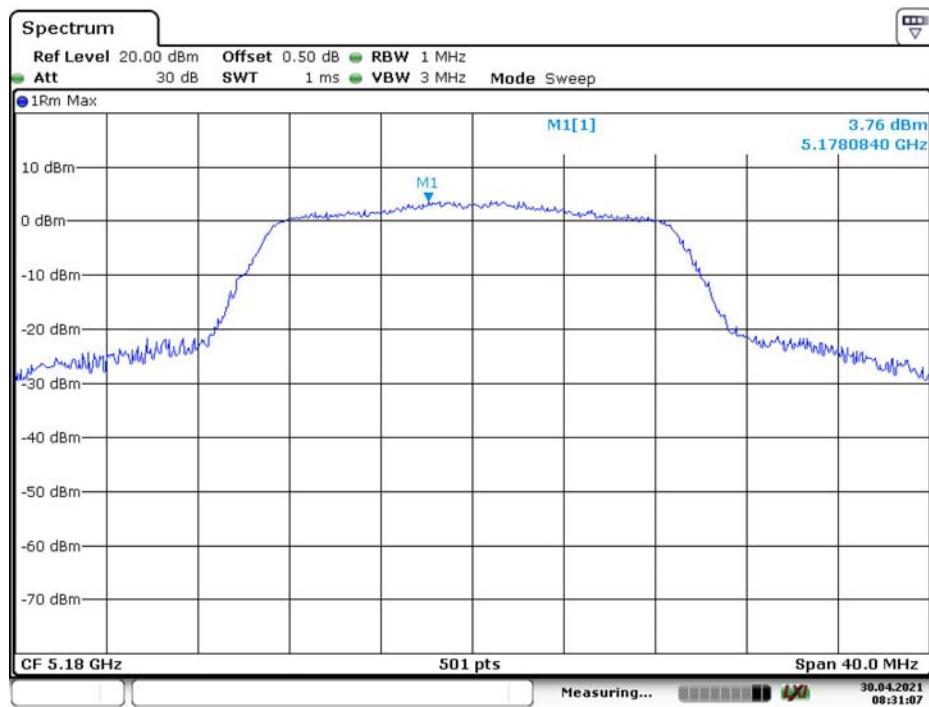
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802.11a High Channel



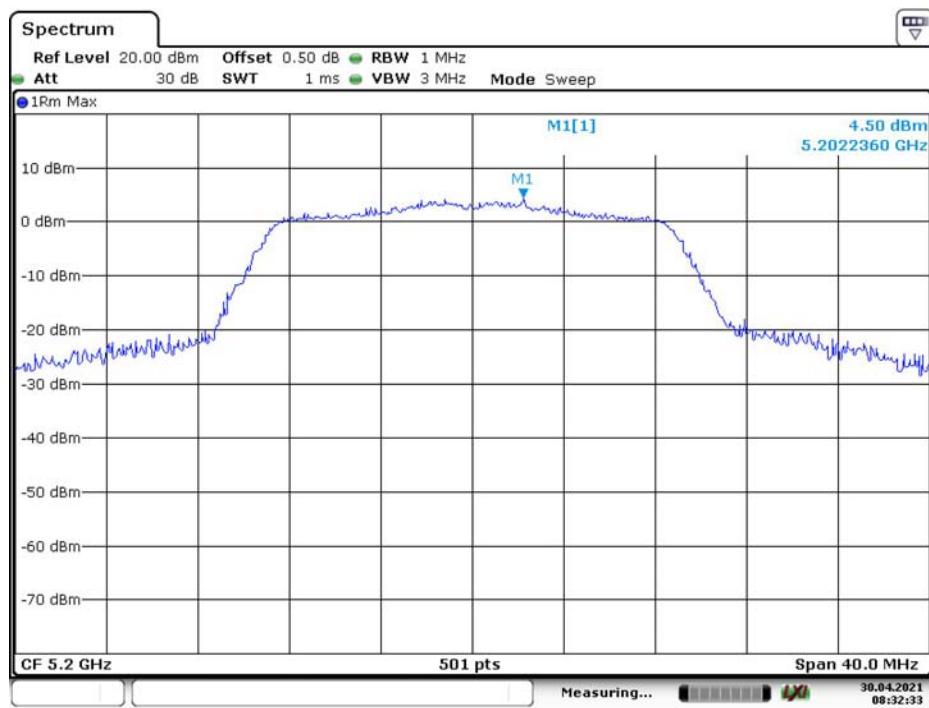
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802.11n ht20 Low Channel



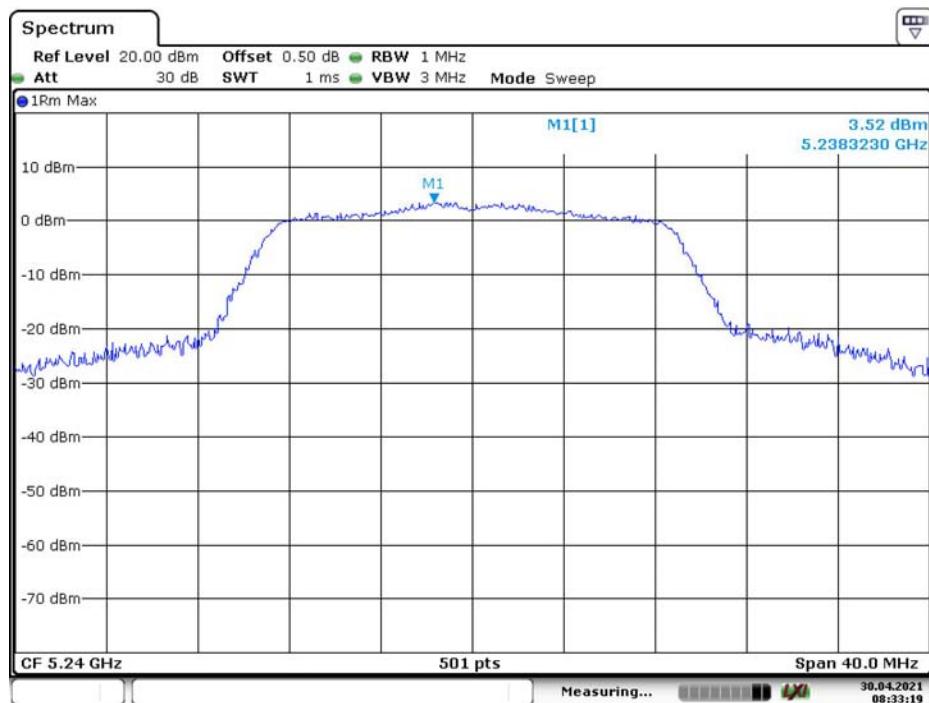
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802.11n ht20 Middle Channel



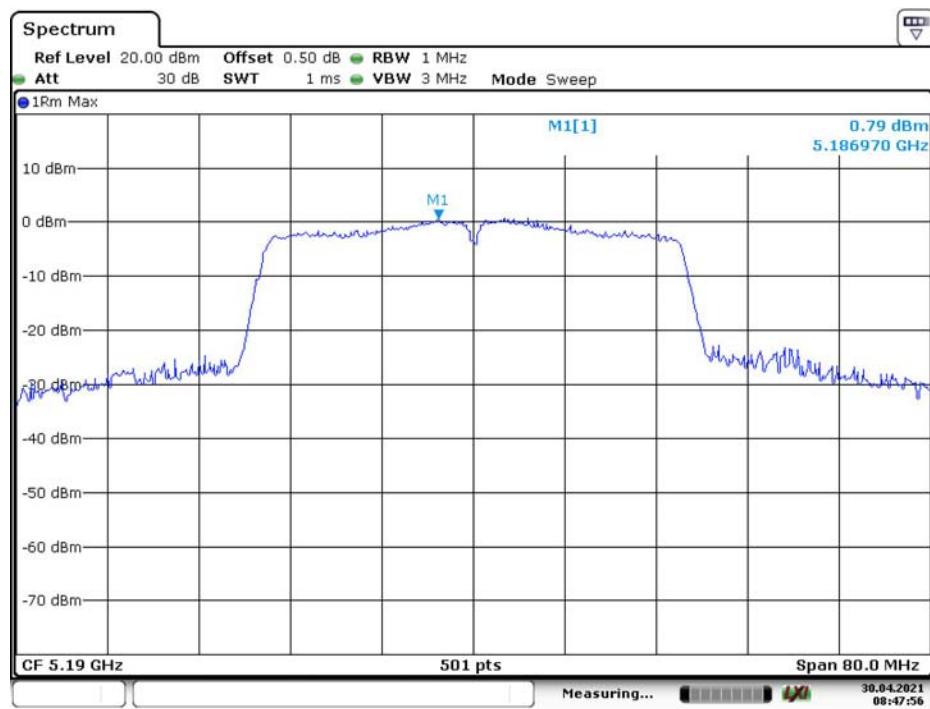
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802.11n ht20 High Channel



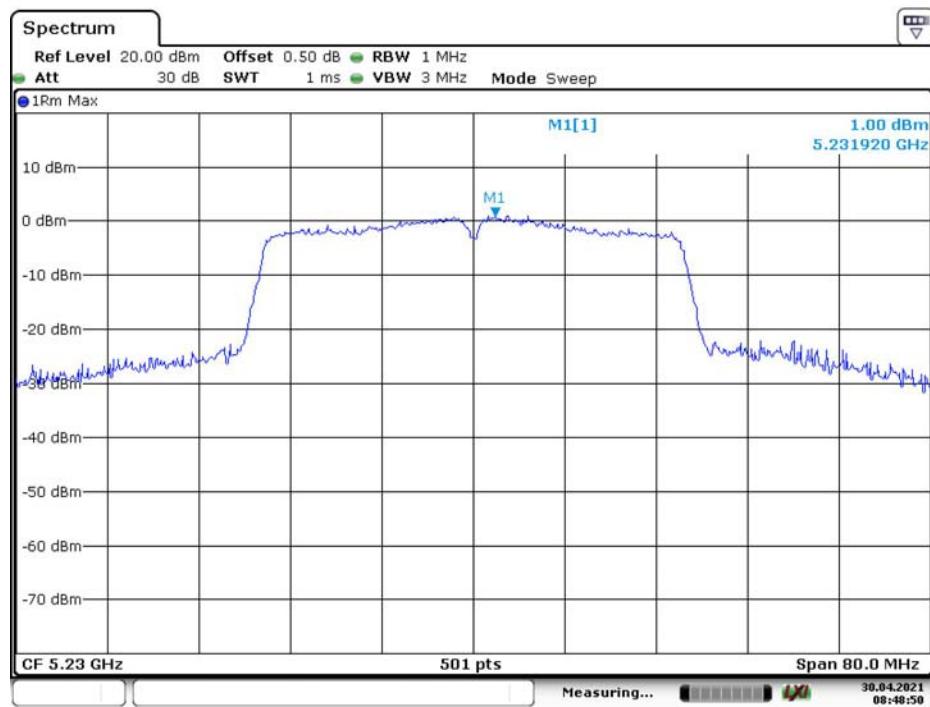
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802.11n ht40 Low Channel

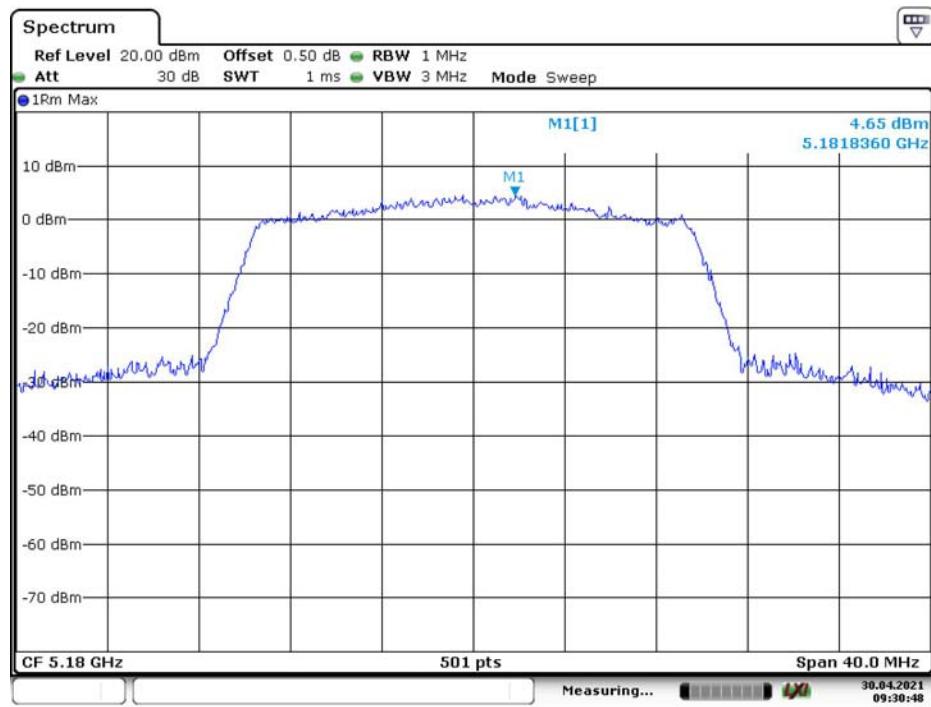


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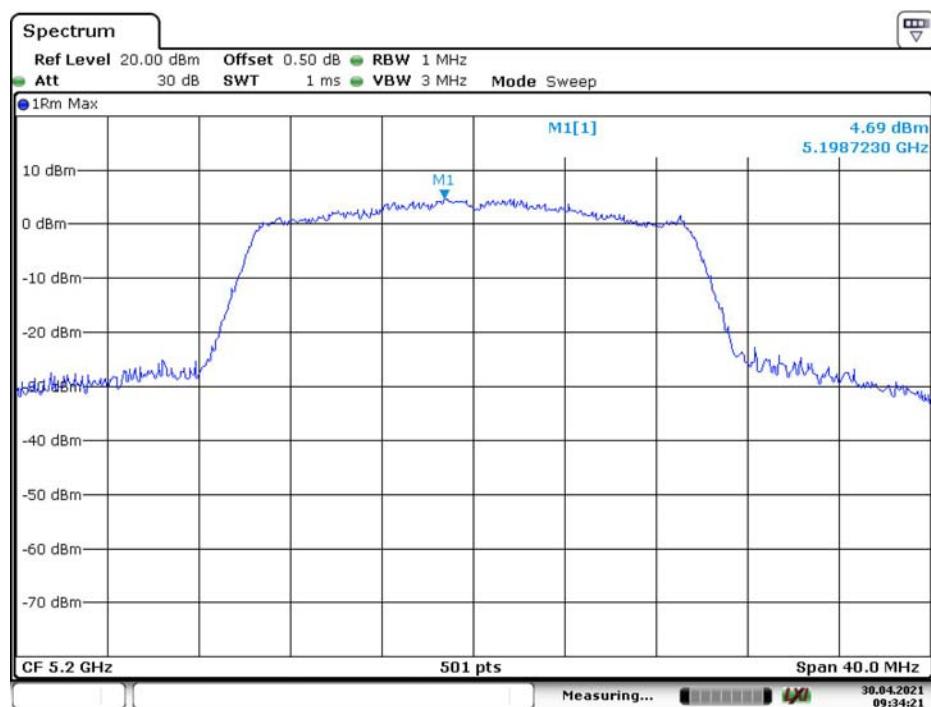
802.11n ht40 High Channel



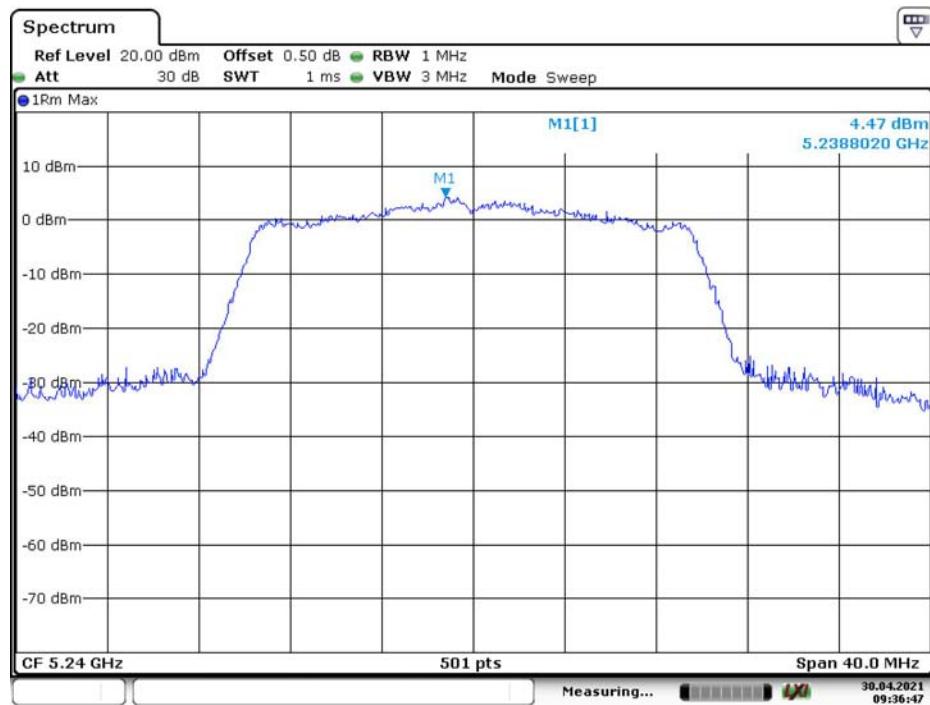
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802.11ax hew20 Low Channel

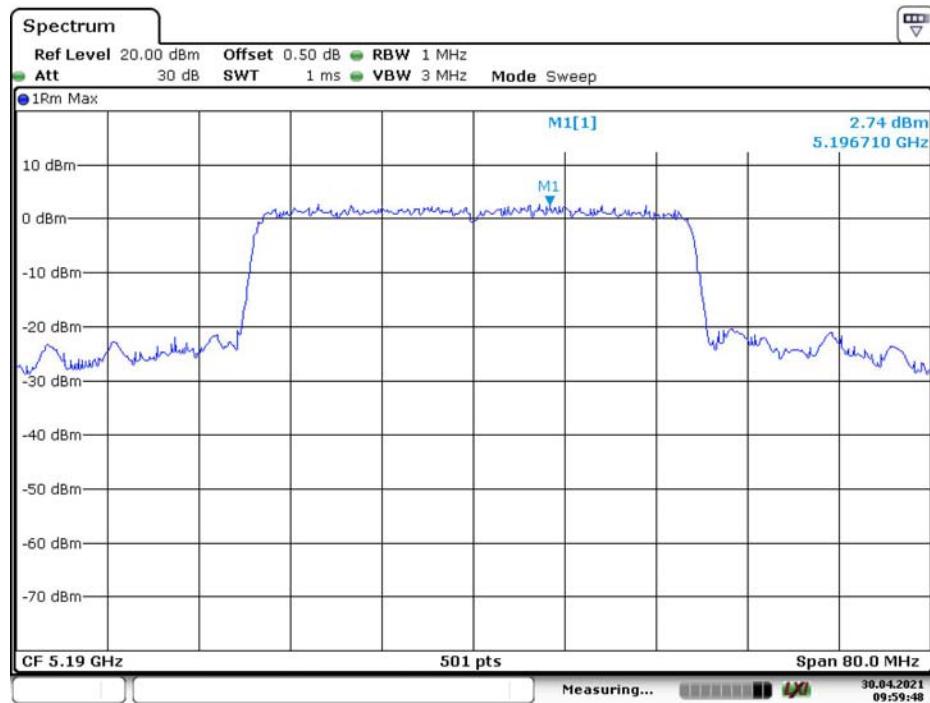
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802.11ax hew20 Middle Channel

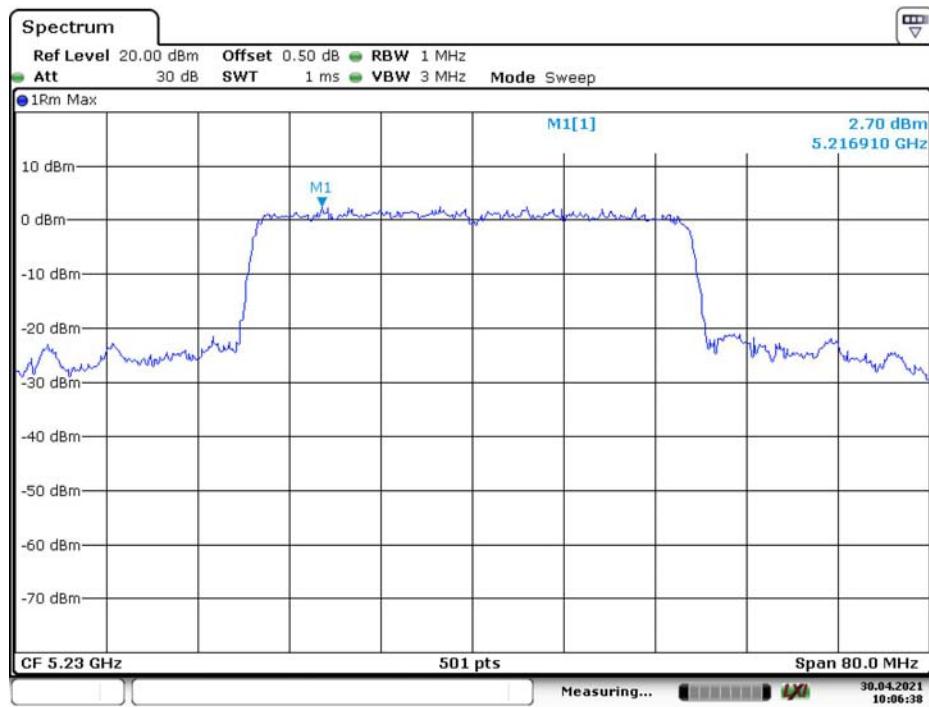
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802.11ax hew20 High Channel

Date: 30.APR.2021 09:36:47

802.11ax hew40 Low Channel

Date: 30.APR.2021 09:59:48

802.11ax hew40 High Channel

Date: 30.APR.2021 10:06:38

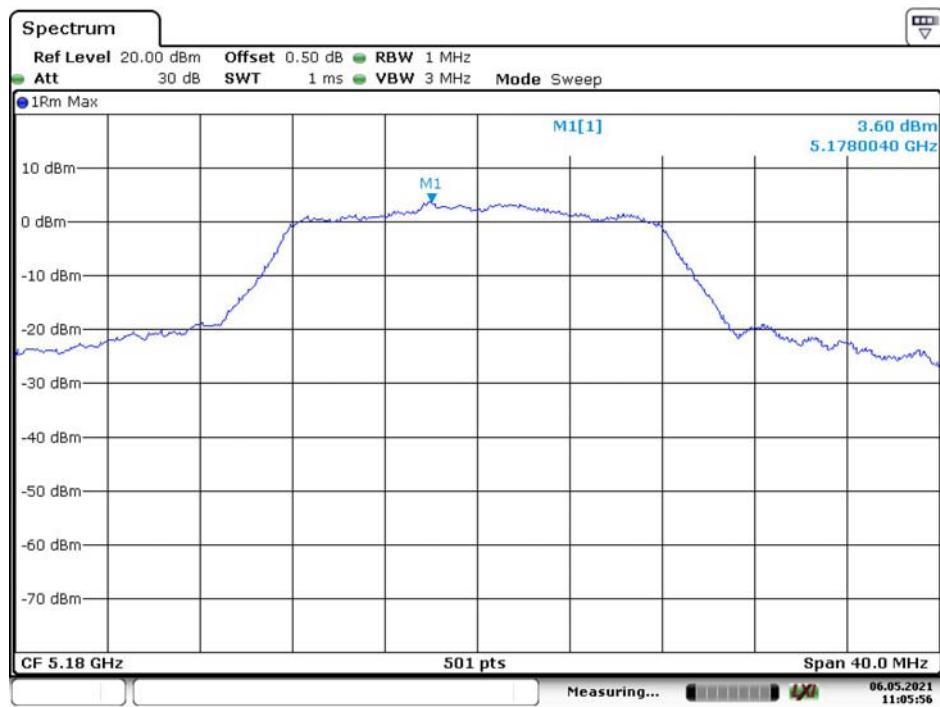
802.11ac vht80 Middle Channel

Date: 30.APR.2021 09:14:06

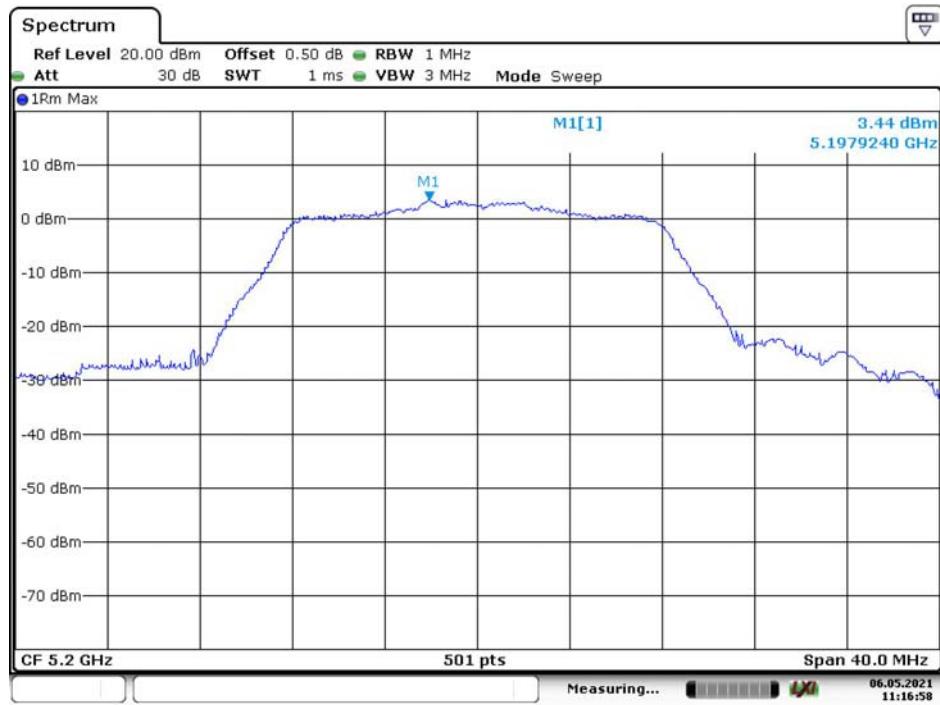
802.11ax hew80 Middle Channel



Date: 30.APR.2021 10:25:33

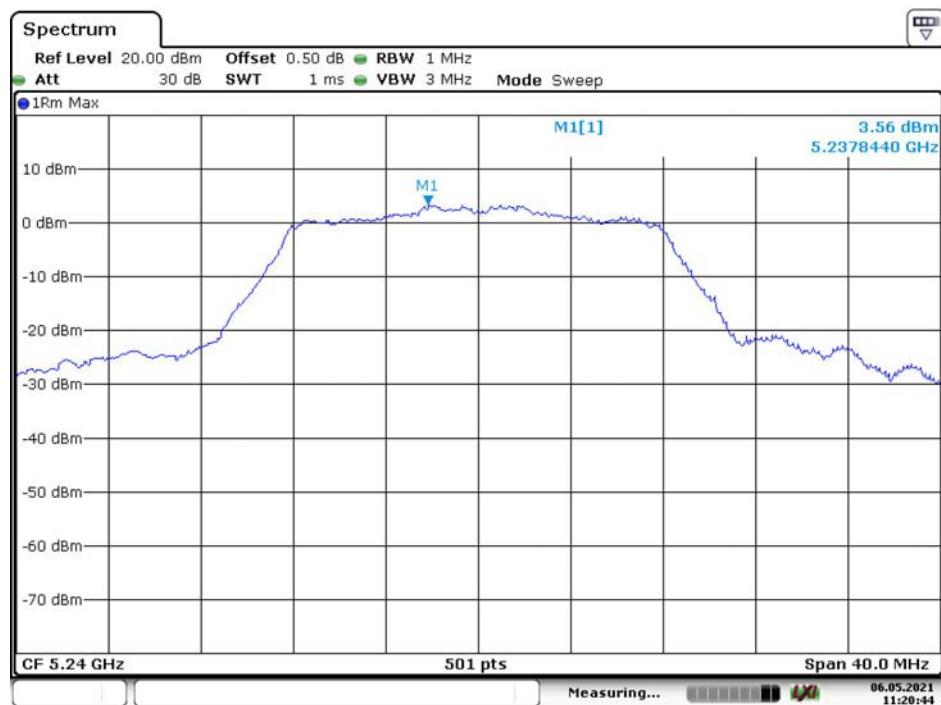
Chain 1**802.11a Low Channel**

Date: 6.MAY.2021 11:05:57

802.11a Middle Channel

Date: 6.MAY.2021 11:16:58

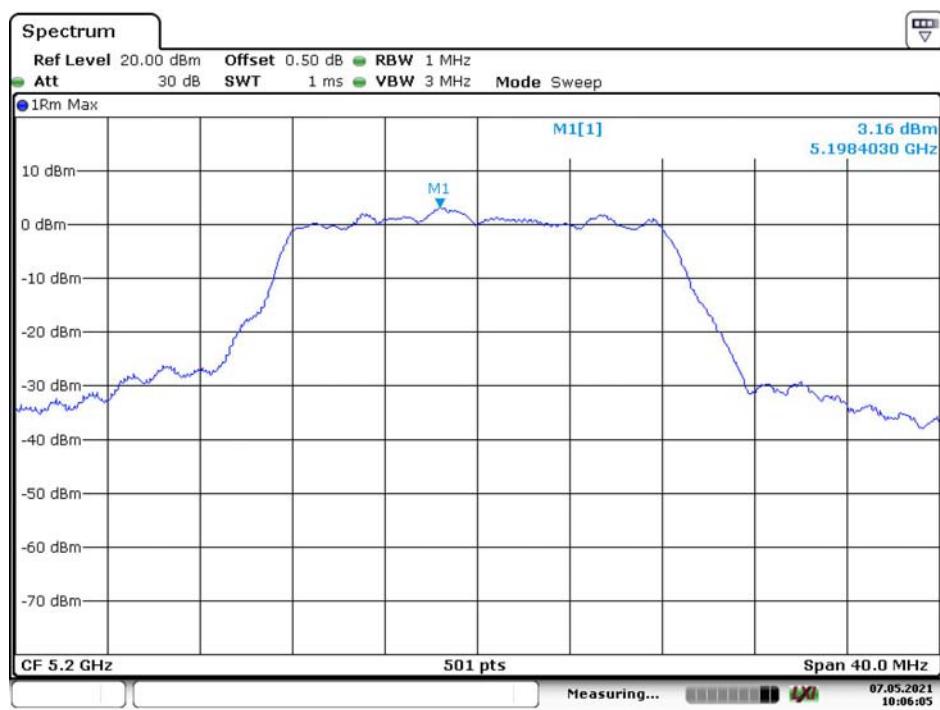
802.11a High Channel



802.11n ht20 Low Channel



802.11n ht20 Middle Channel



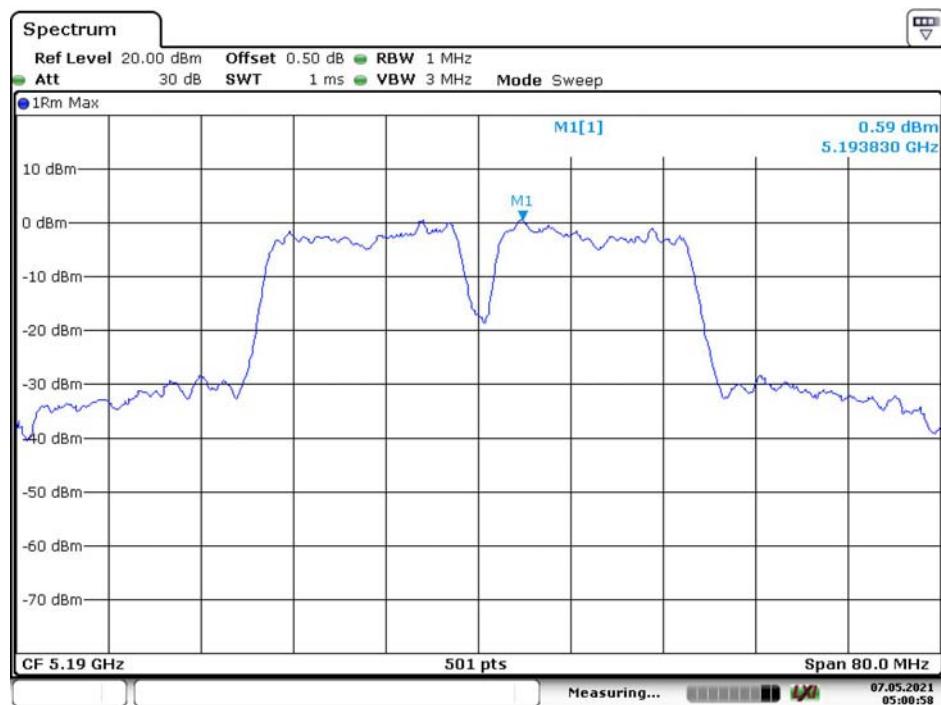
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802.11n ht20 High Channel



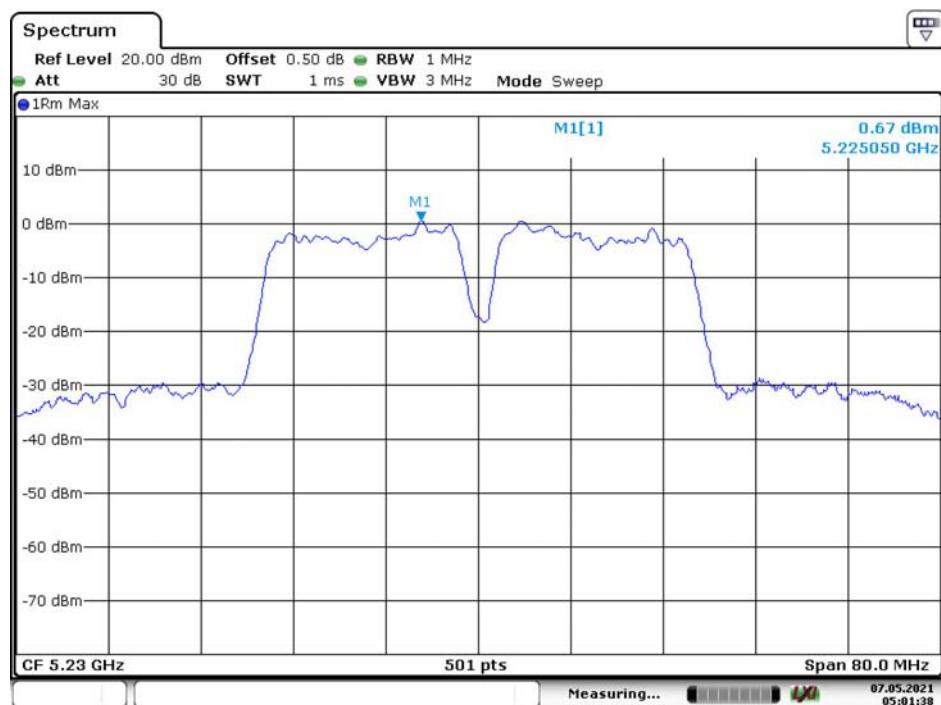
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802.11n ht40 Low Channel



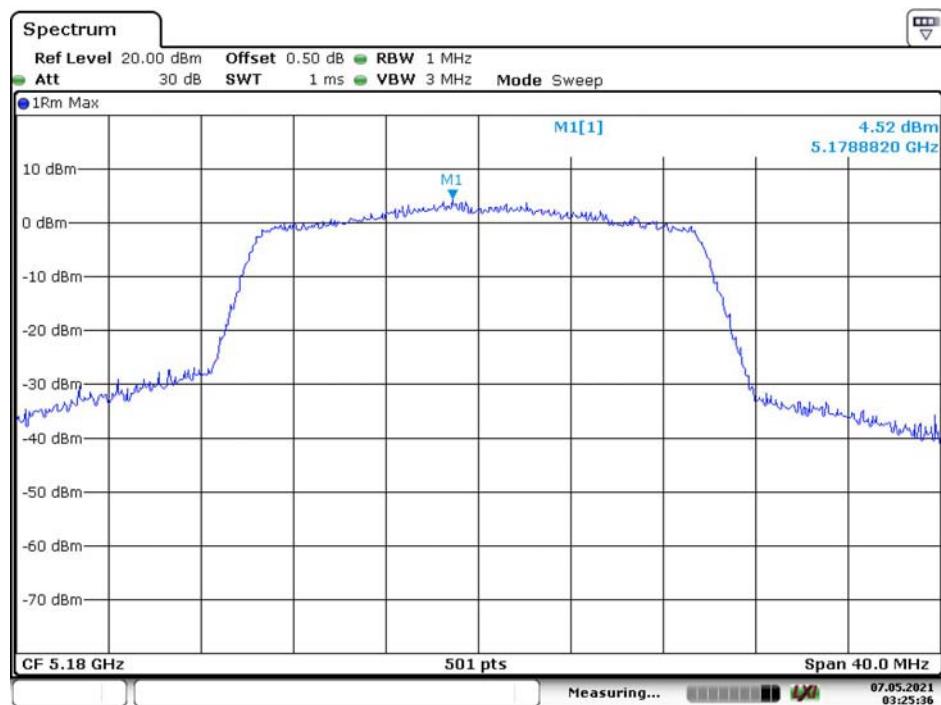
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802.11n ht40 High Channel



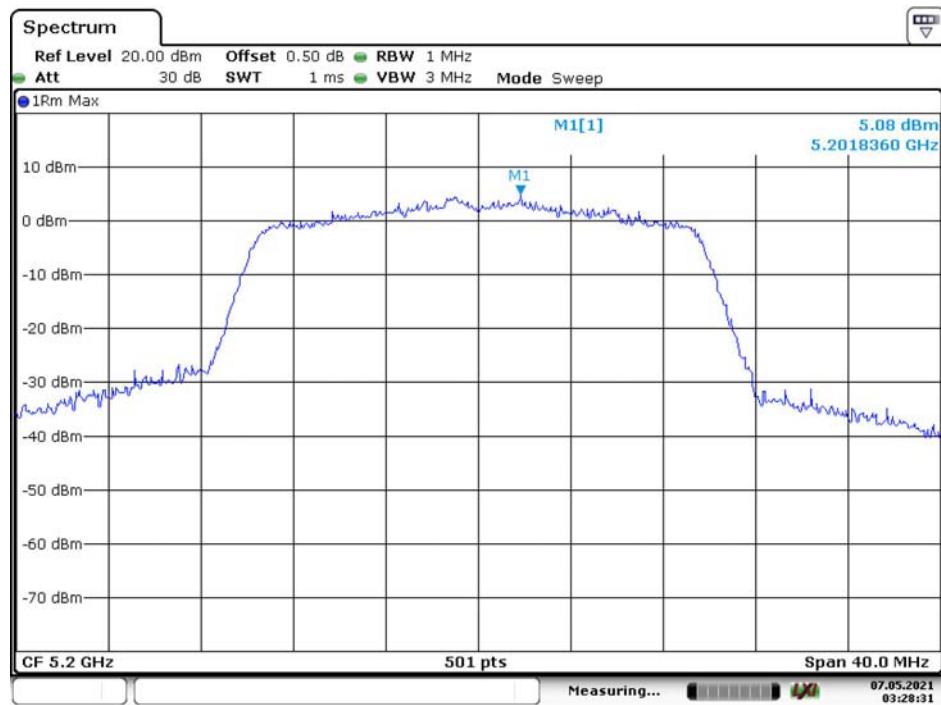
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802.11ax hew20 Low Channel



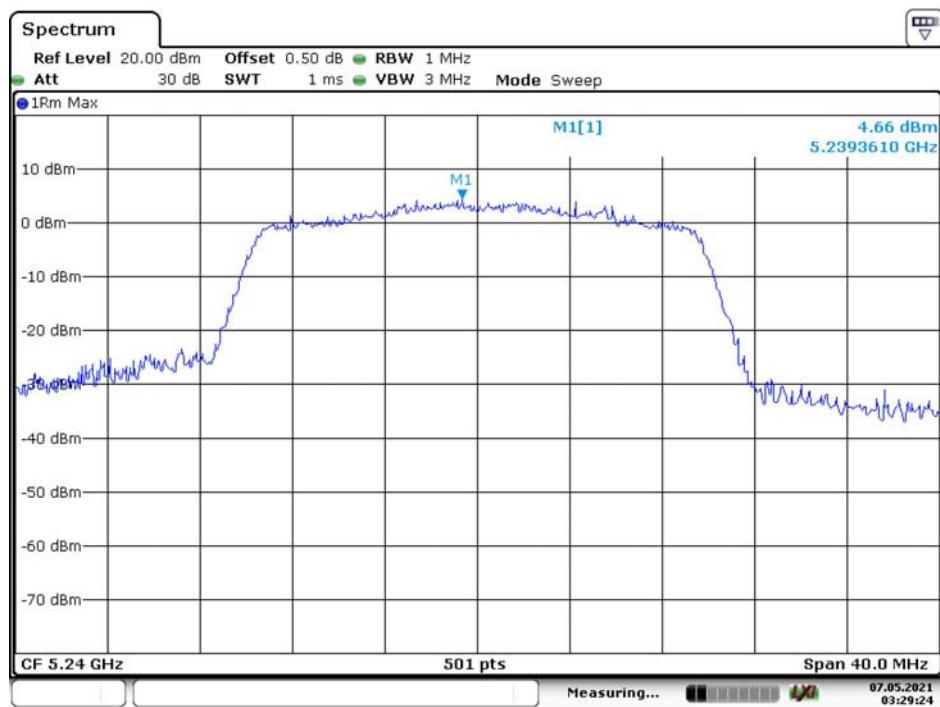
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802.11ax hew20 Middle Channel



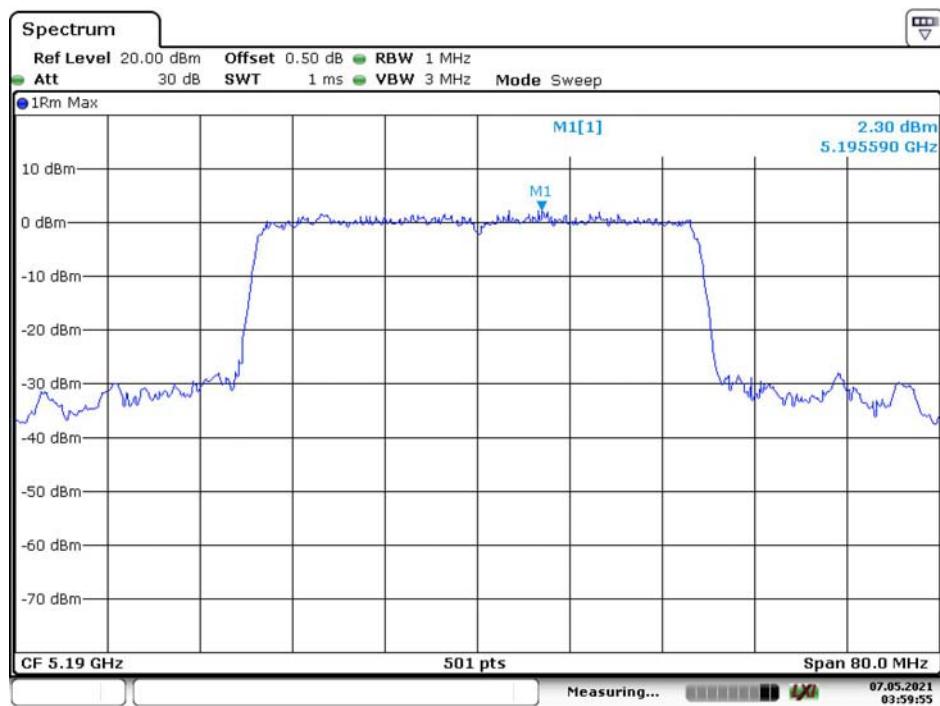
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802.11ax hew20 High Channel

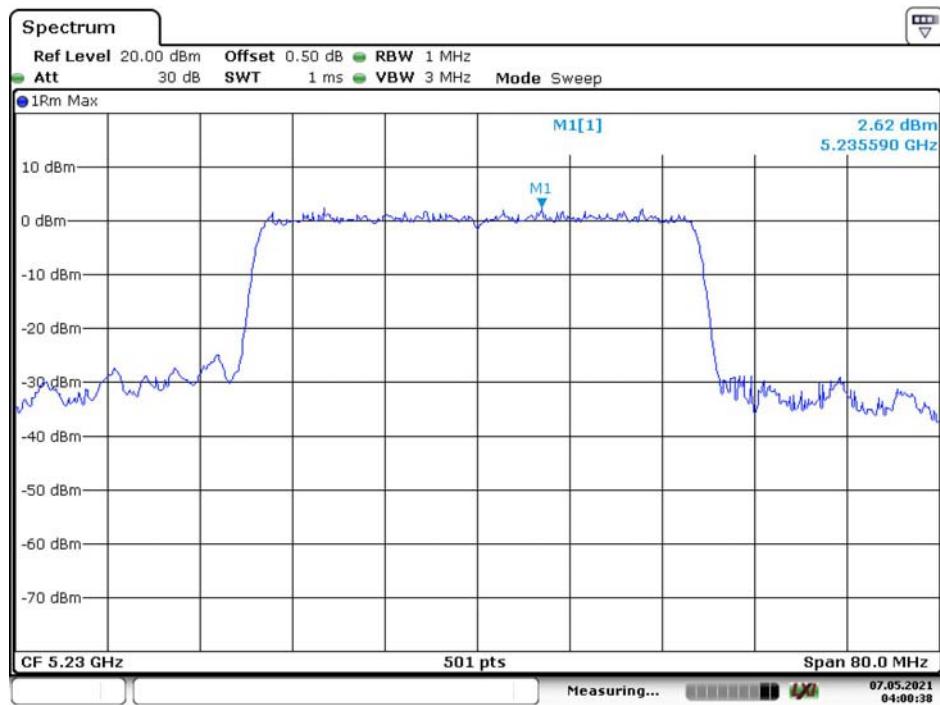


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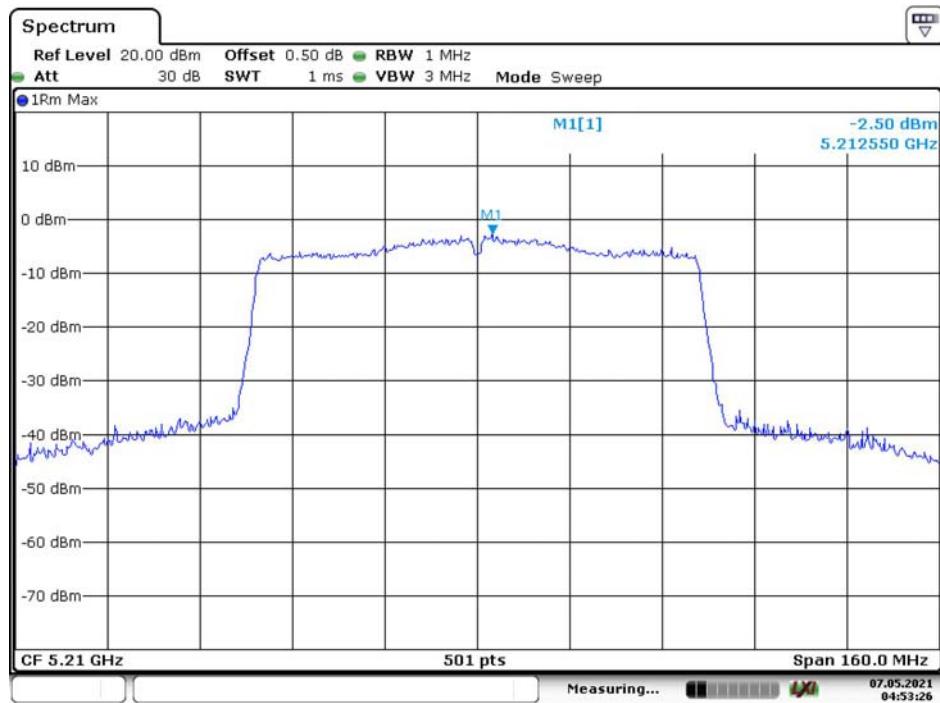
802.11ax hew40 Low Channel



Date: 7.MAY.2021 03:59:56

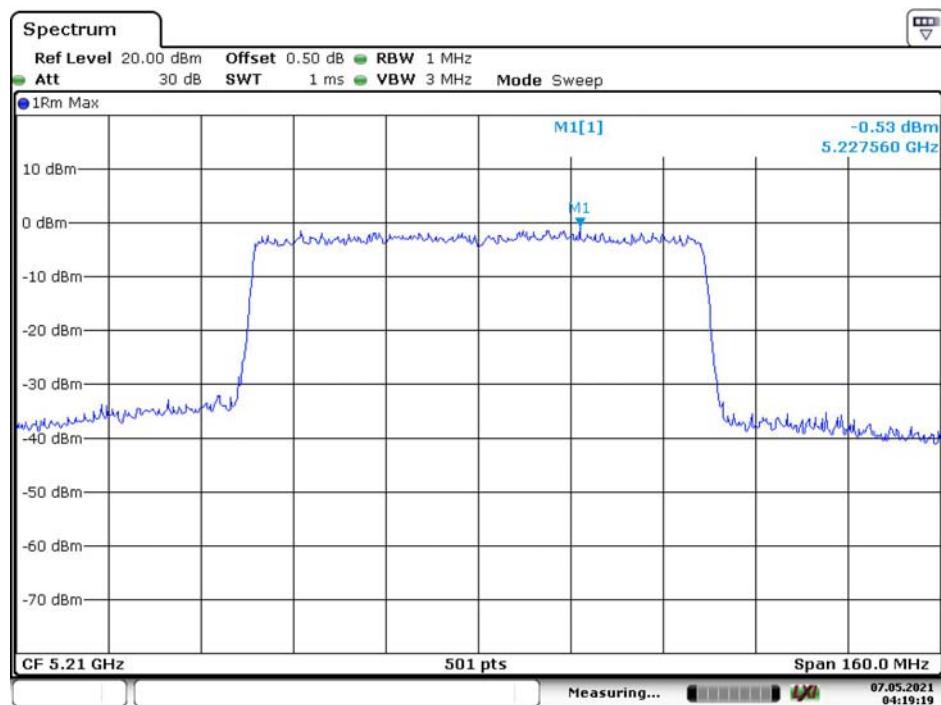
802.11ax hew40 High Channel

Date: 7.MAY.2021 04:00:39

802.11ac vht80 Middle Channel

Date: 7.MAY.2021 04:53:27

802.11ax hew80 Middle Channel



Date: 7.MAY.2021 04:19:20

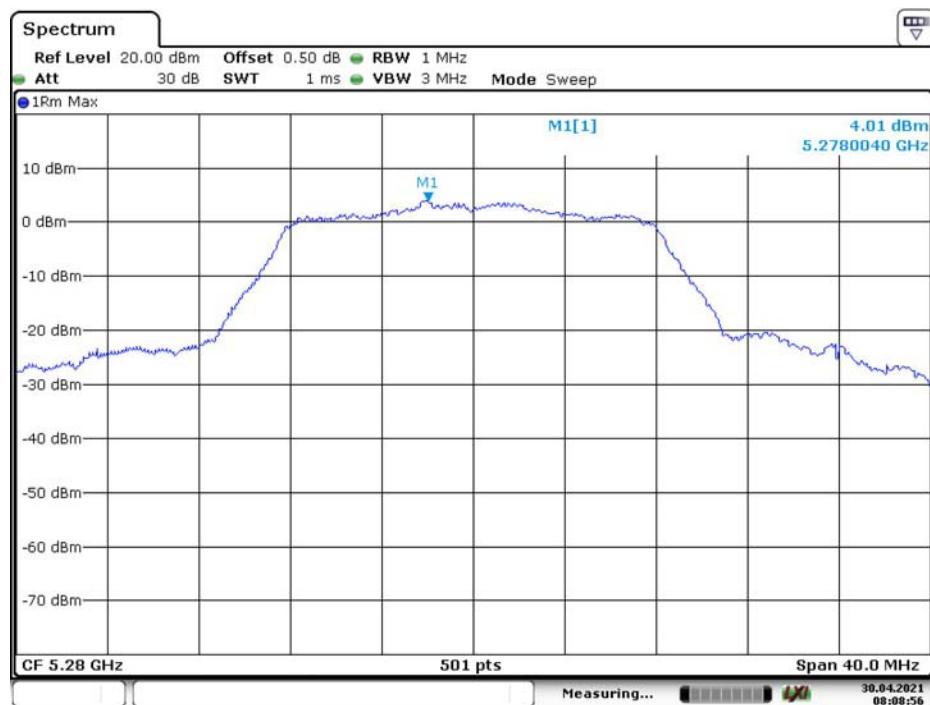
5250-5350MHz:
Chain 0

802.11a Low Channel



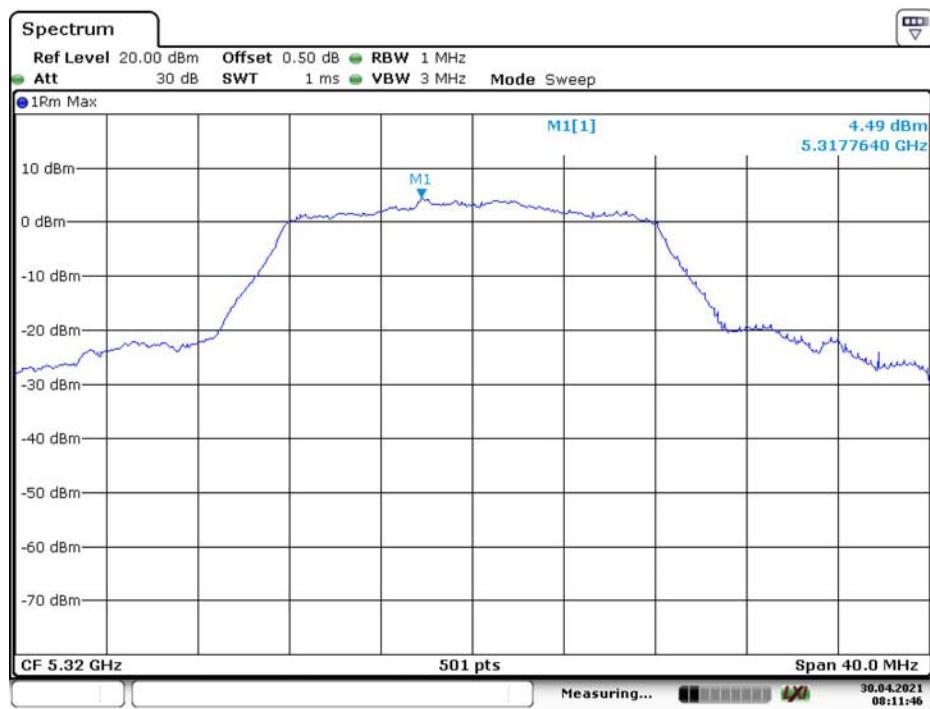
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802.11a Middle Channel



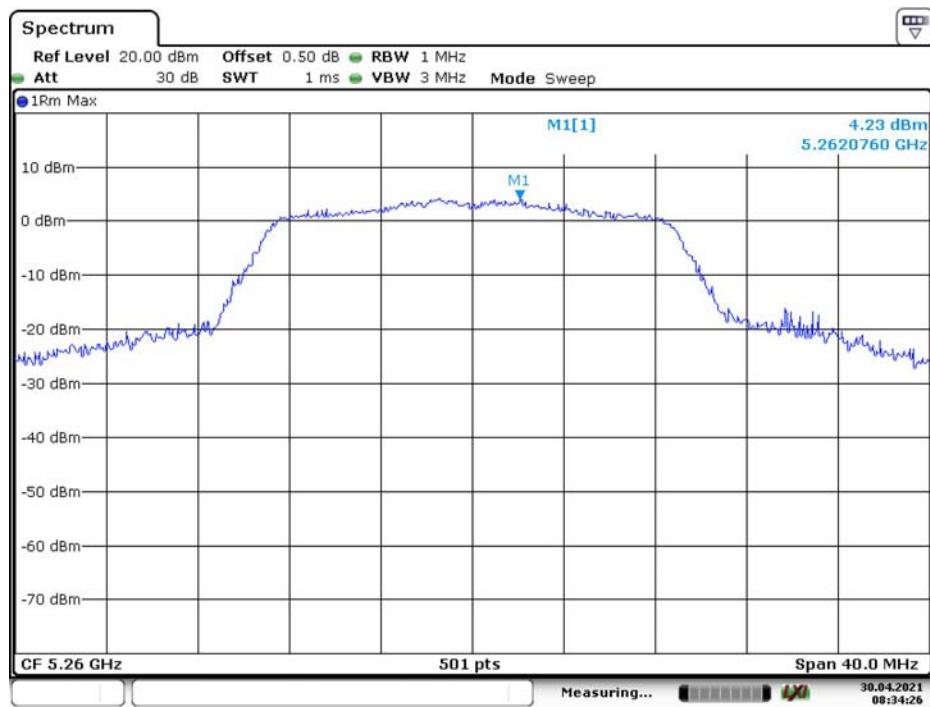
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802.11a High Channel



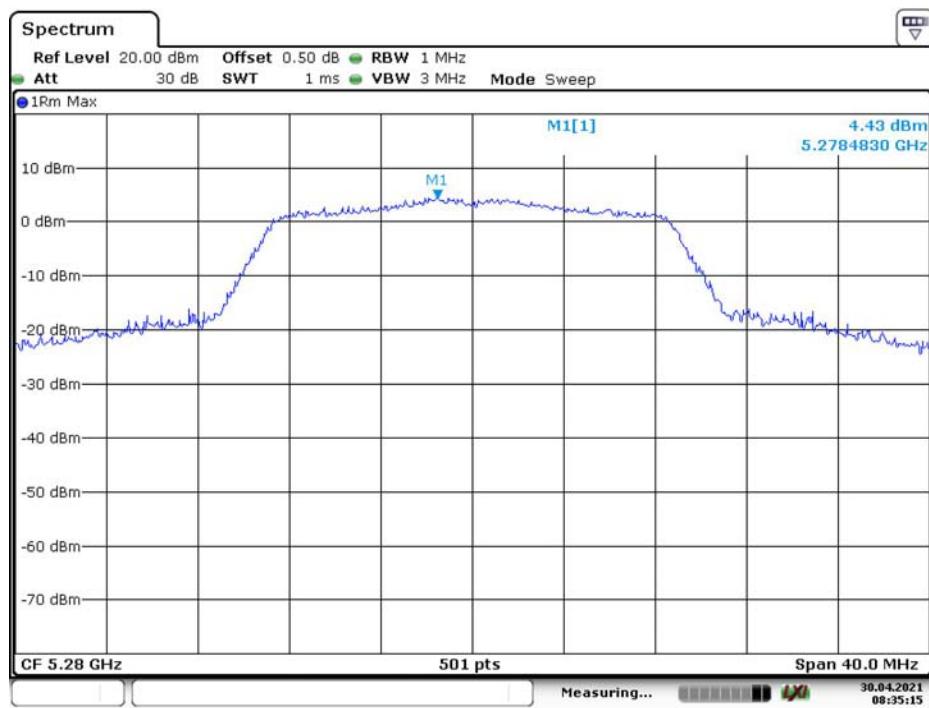
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802.11n ht20 Low Channel



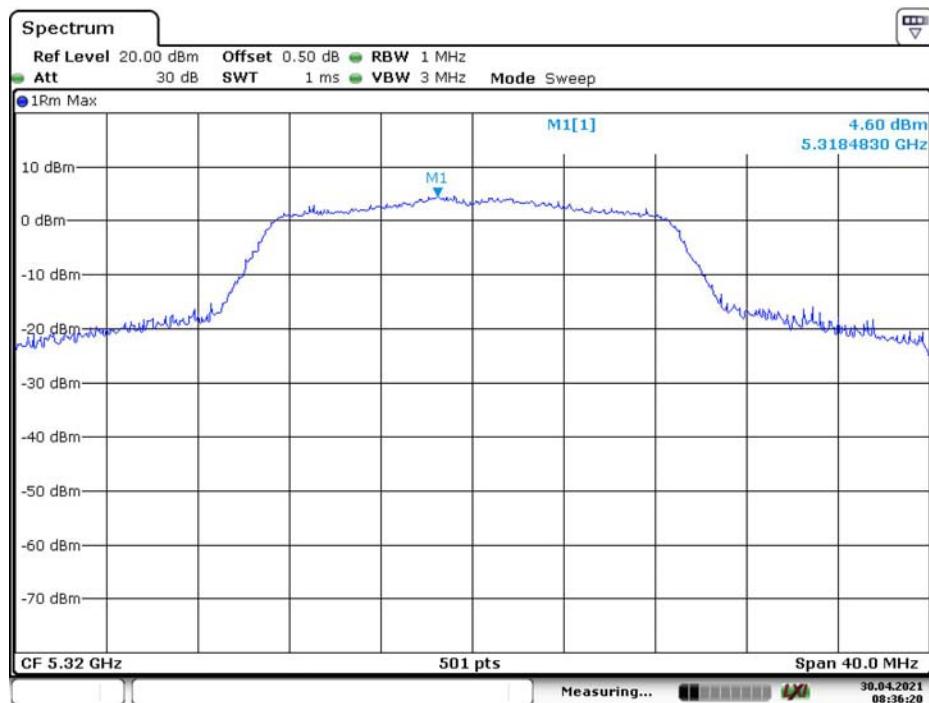
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802.11n ht20 Middle Channel



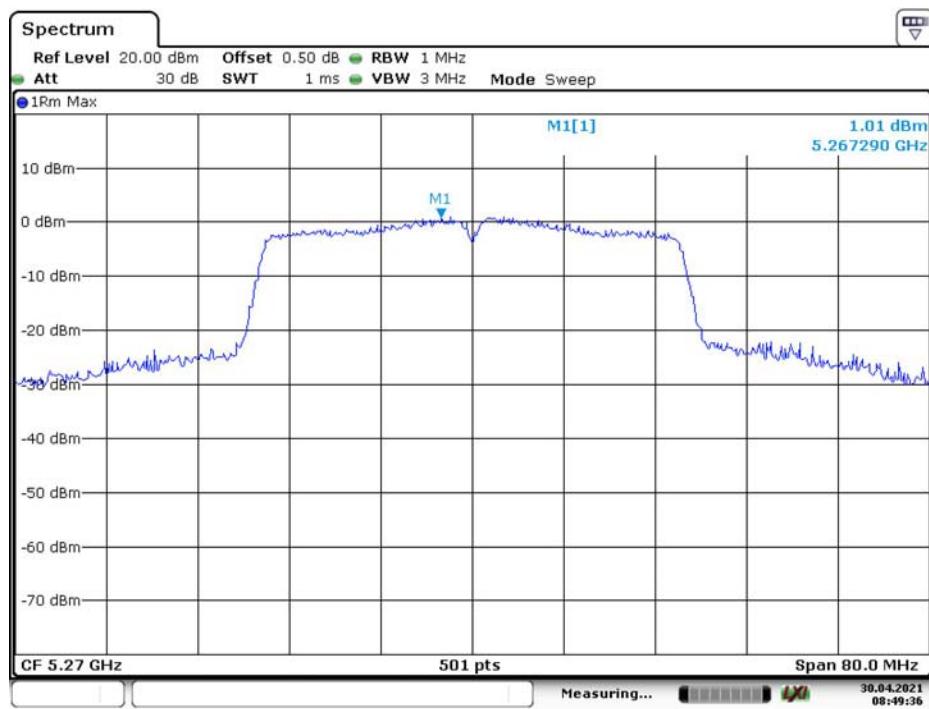
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802.11n ht20 High Channel



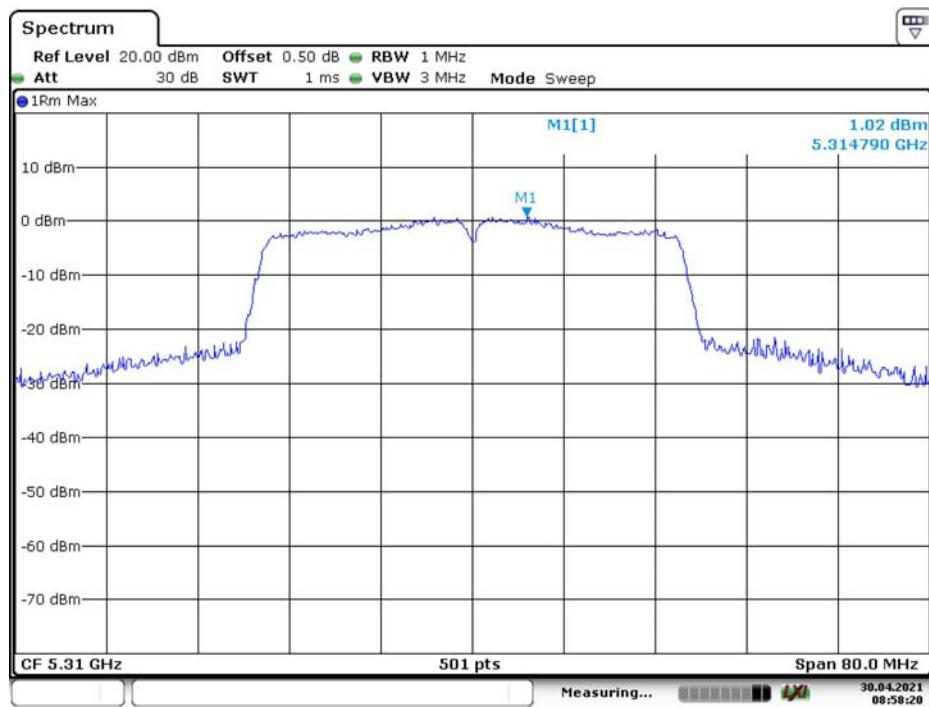
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802.11n ht40 Low Channel

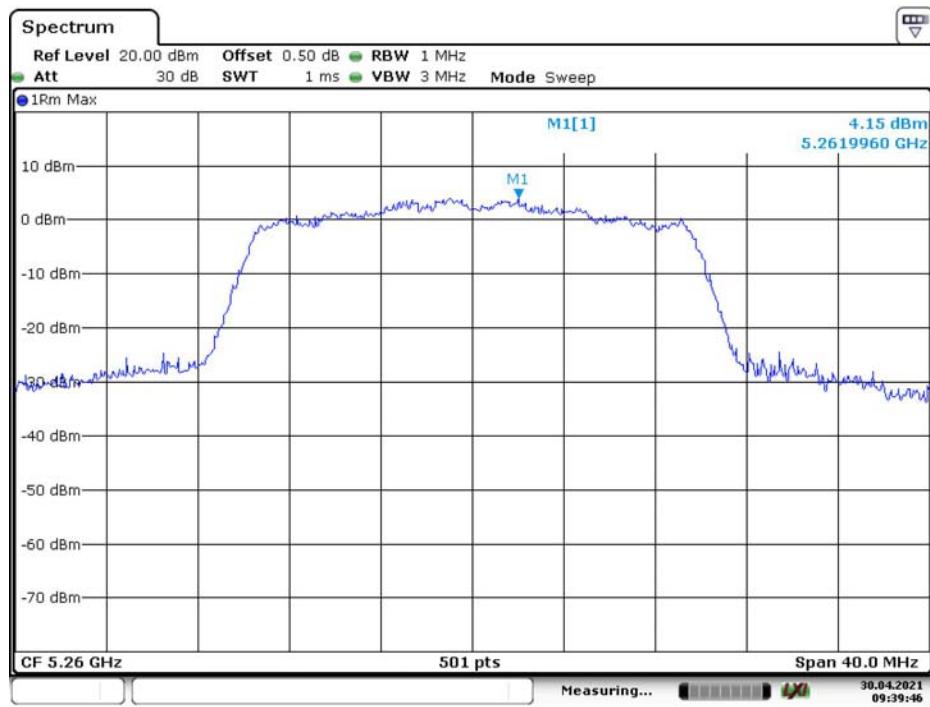


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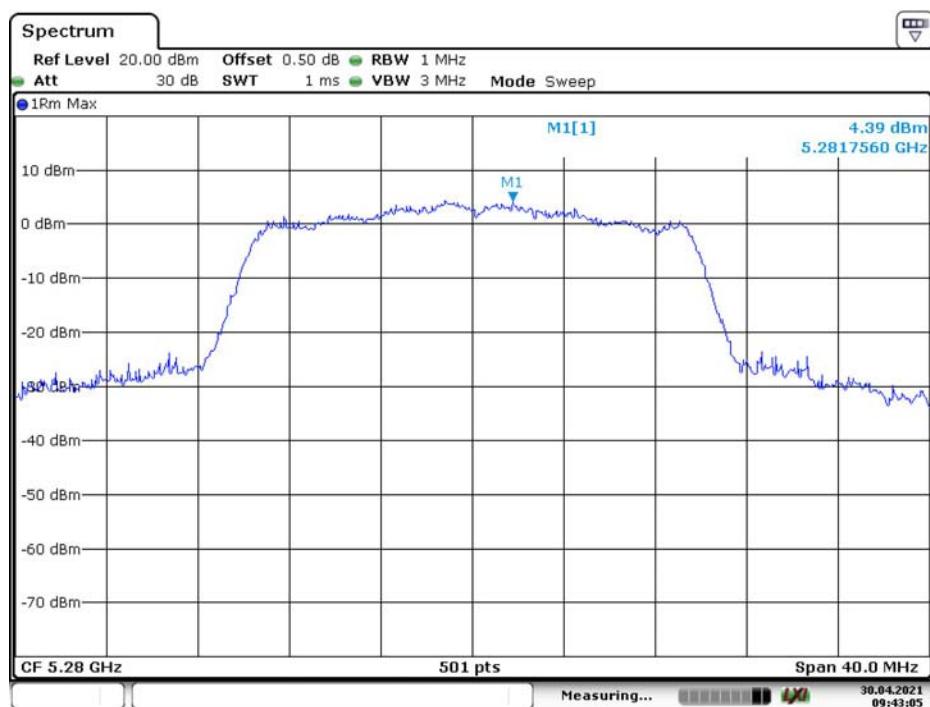
802.11n ht40 High Channel



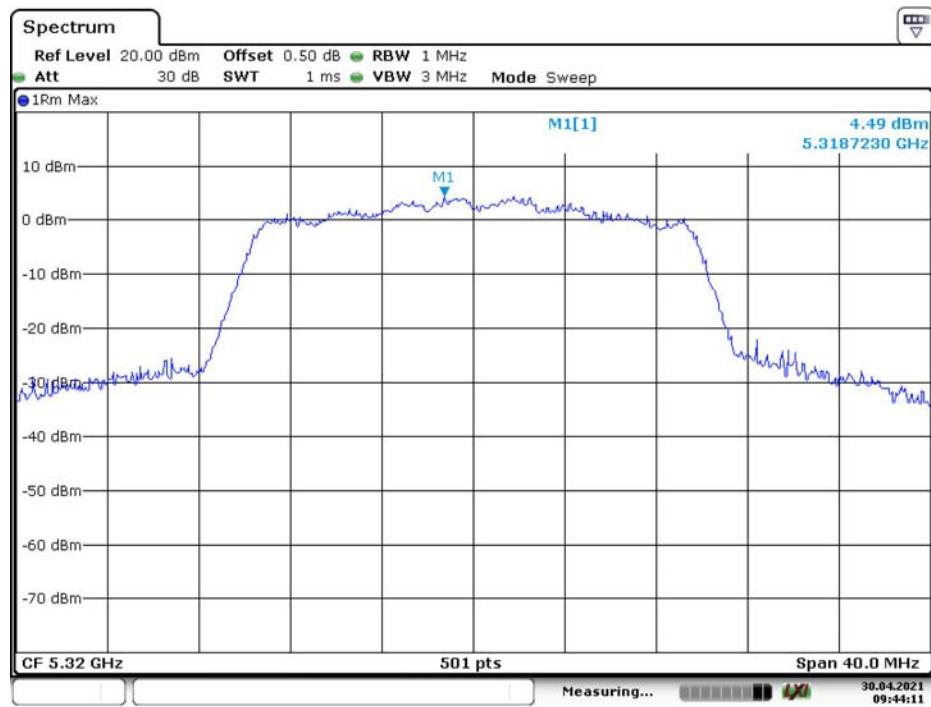
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802.11ax hew20 Low Channel

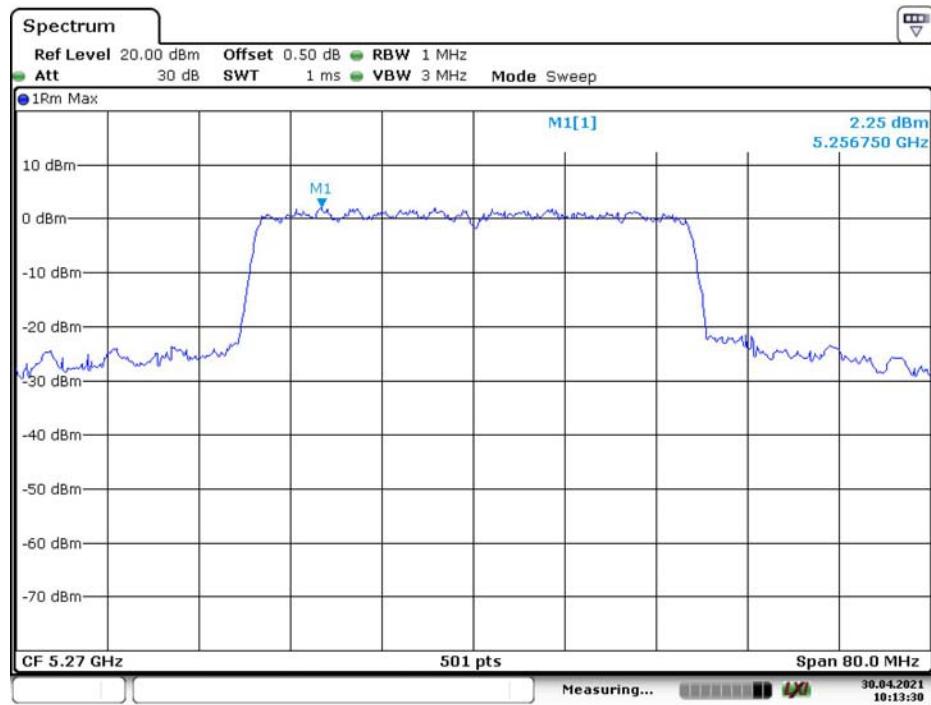
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802.11ax hew20 Middle Channel

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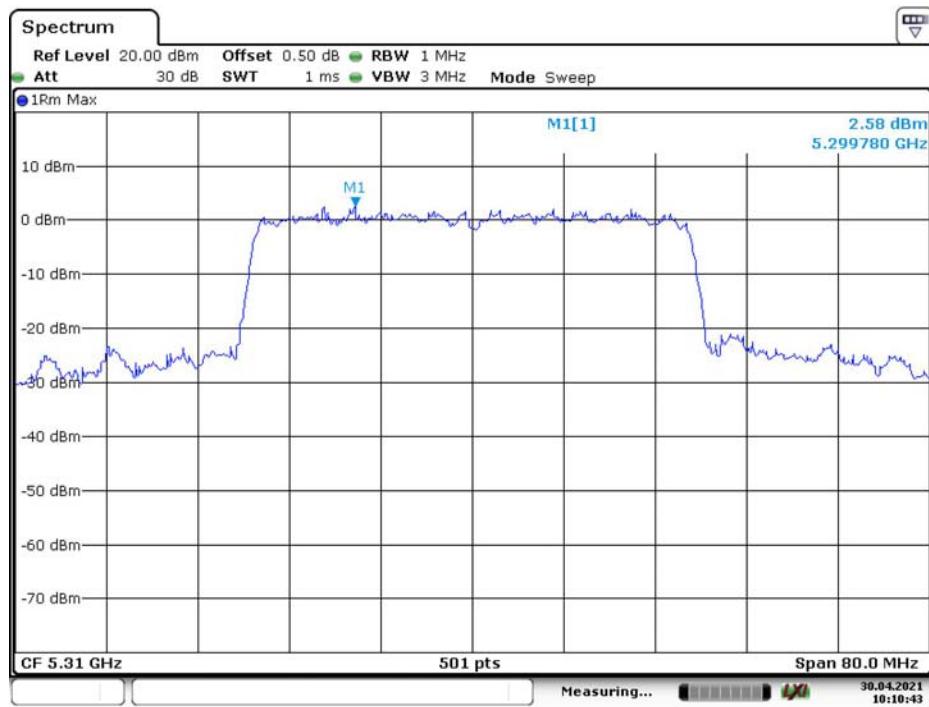
802.11ax hew20 High Channel

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802.11ax hew40 Low Channel

Date: 30.APR.2021 10:13:30

802.11ax hew40 High Channel



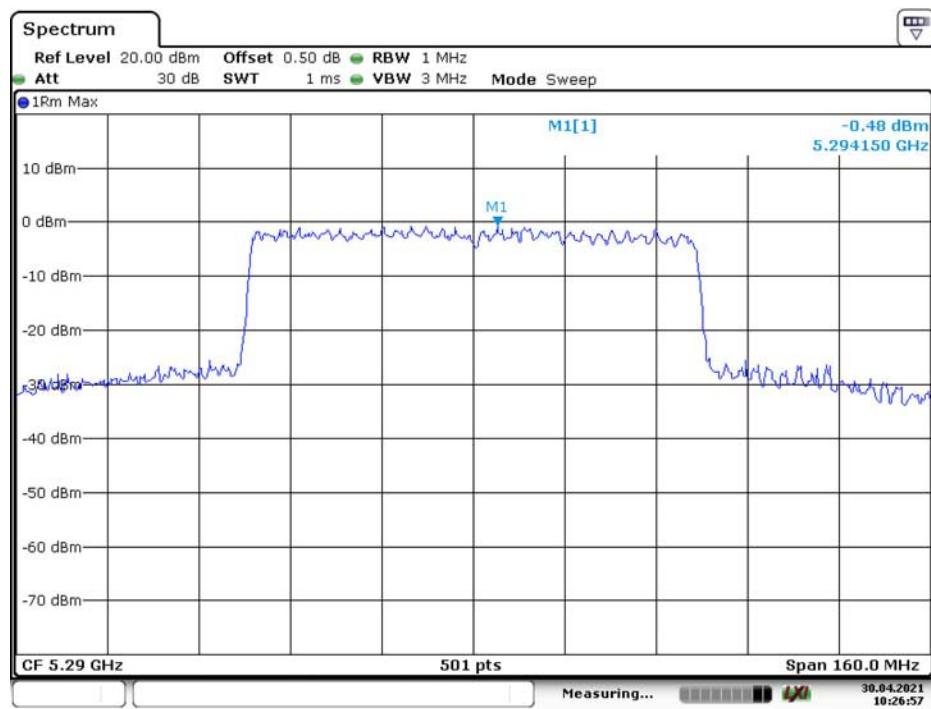
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802.11ac vht80 Middle Channel

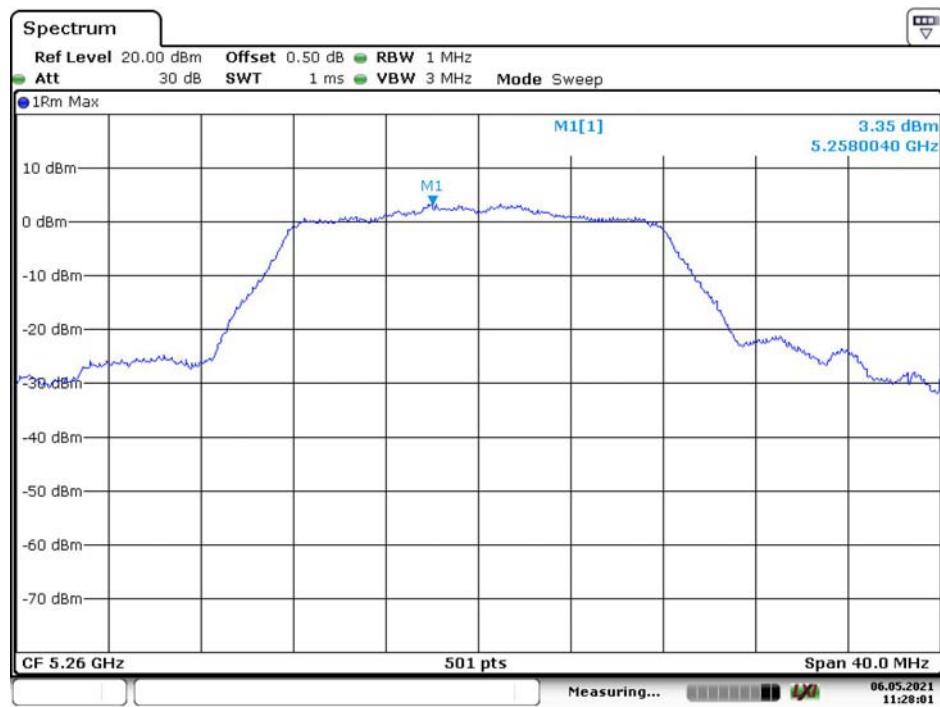


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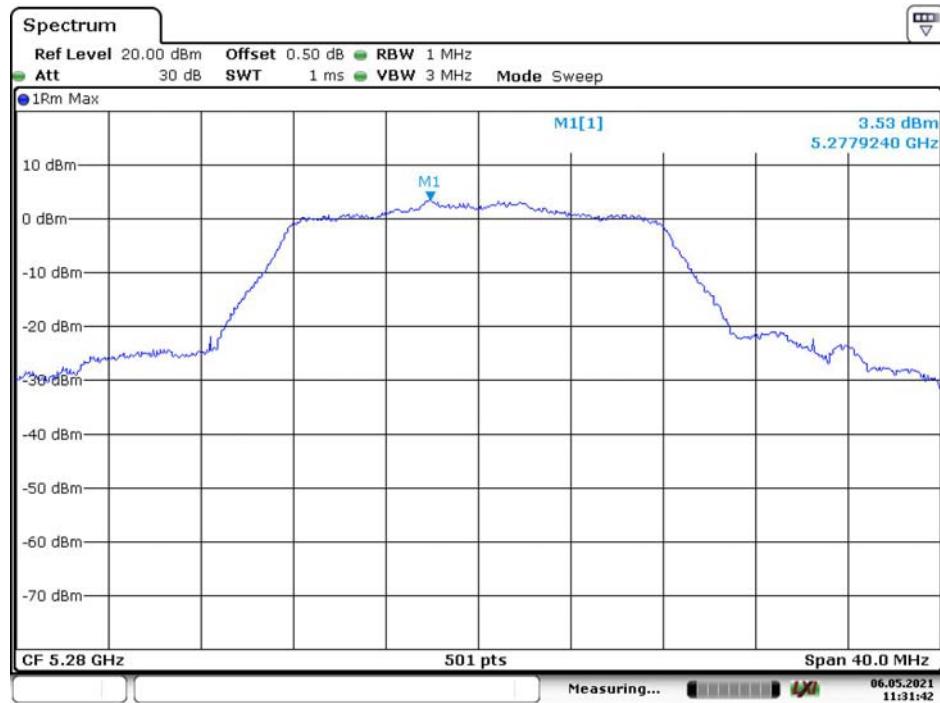
802.11ax hew80 Middle Channel



Date: 30.APR.2021 10:26:57

Chain 1**802.11a Low Channel**

Date: 6.MAY.2021 11:28:01

802.11a Middle Channel

Date: 6.MAY.2021 11:31:42