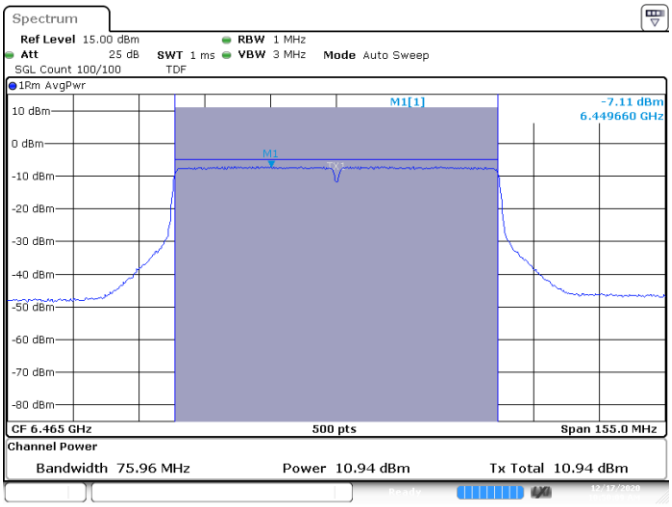
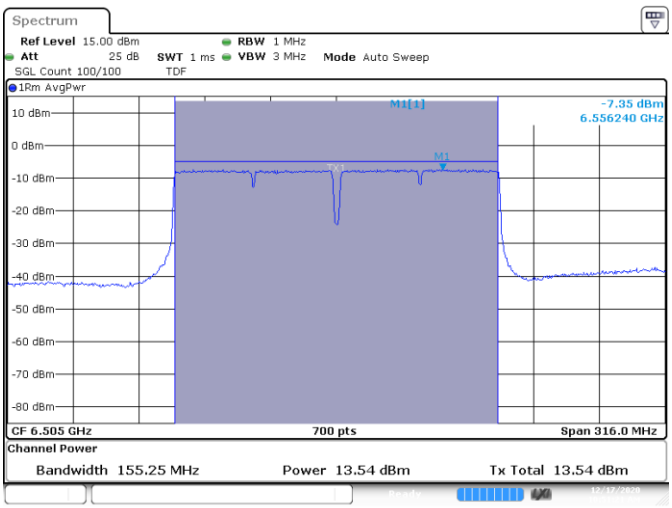


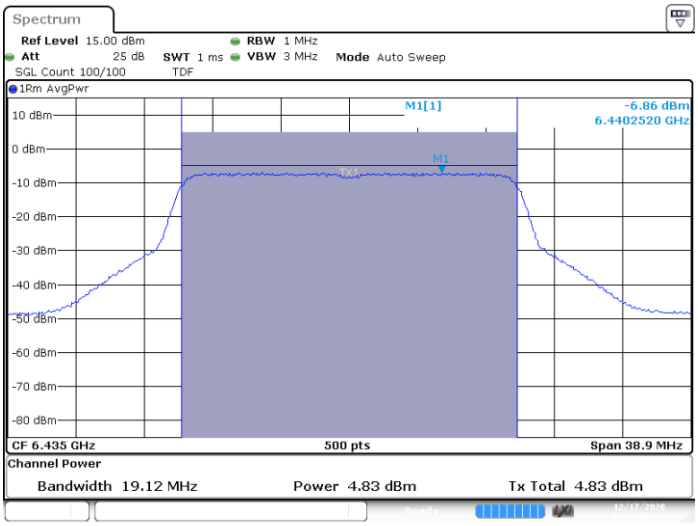

Date: 17.DEC.2020 10:50:10

SISO A-802.11ac-80MHz-Ch103-6465MHz-VHT0

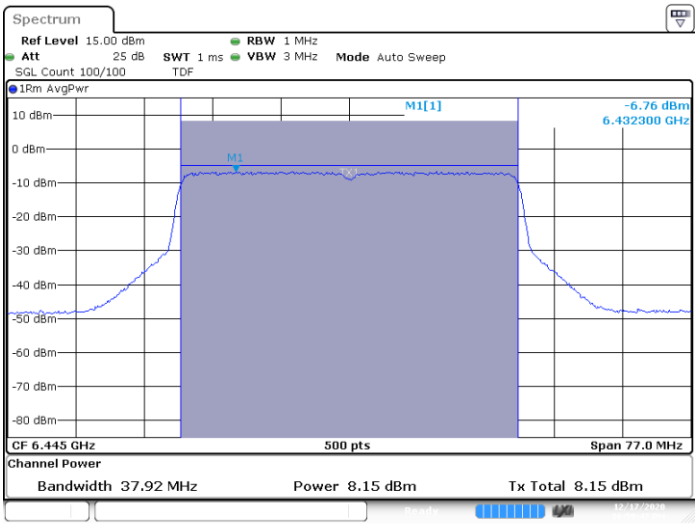



Date: 17.DEC.2020 10:51:22

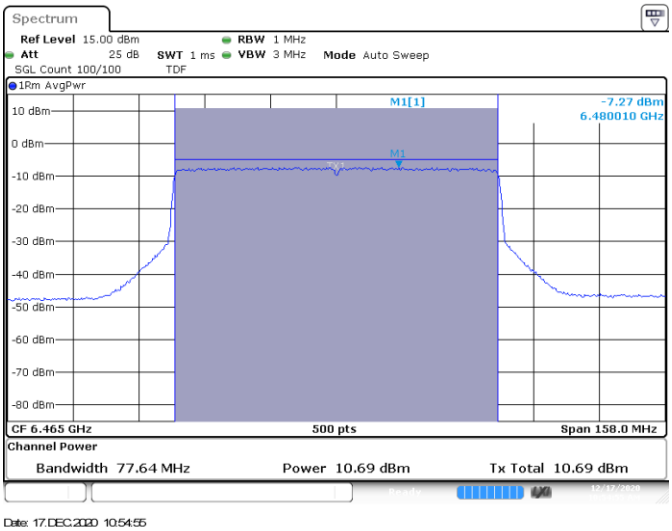
SISO A-802.11ac-160MHz-Ch111-6505MHz-VHT0



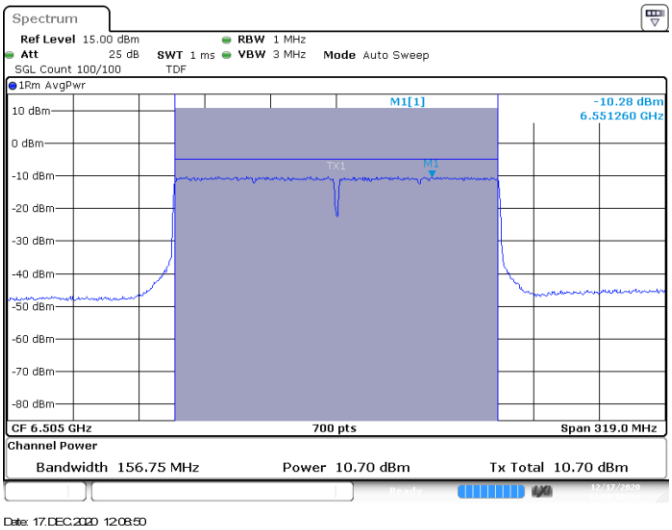

SISO B-802.11ax-20MHz-Ch97-6435MHz-HE0



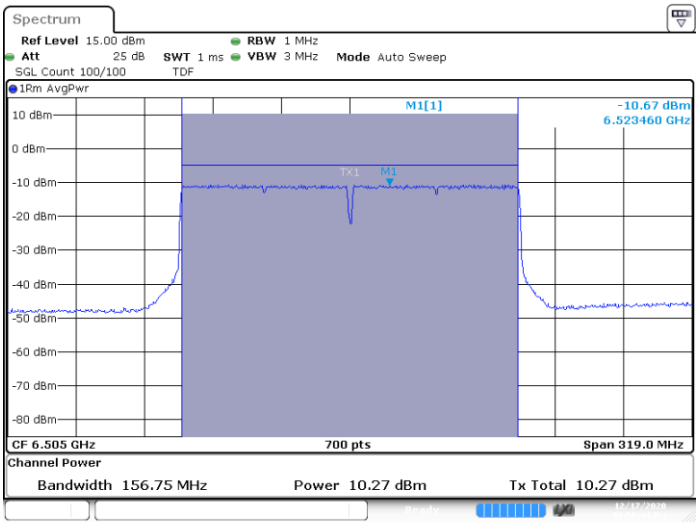

SISO B-802.11ax-40MHz-Ch99-6445MHz-HE0




SISO A-802.11ax-80MHz-Ch103-6465MHz-HE0

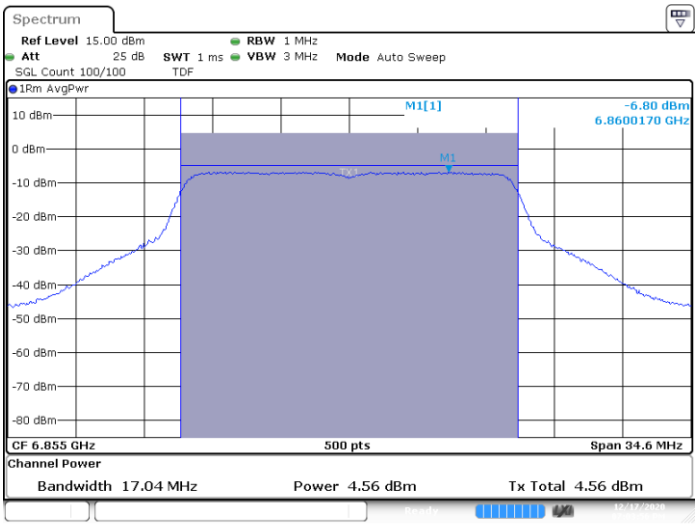



MIMO A-802.11ax-160MHz-Ch111-6505MHz-HE0

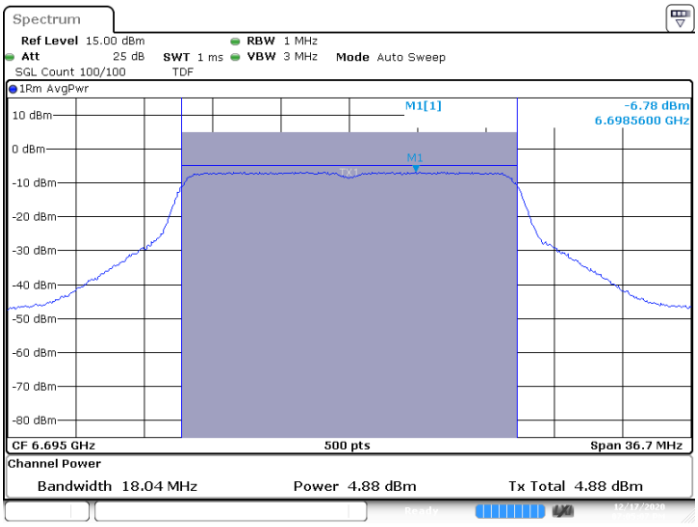



MIMO B-802.11ax-160MHz-Ch111-6505MHz-HE0

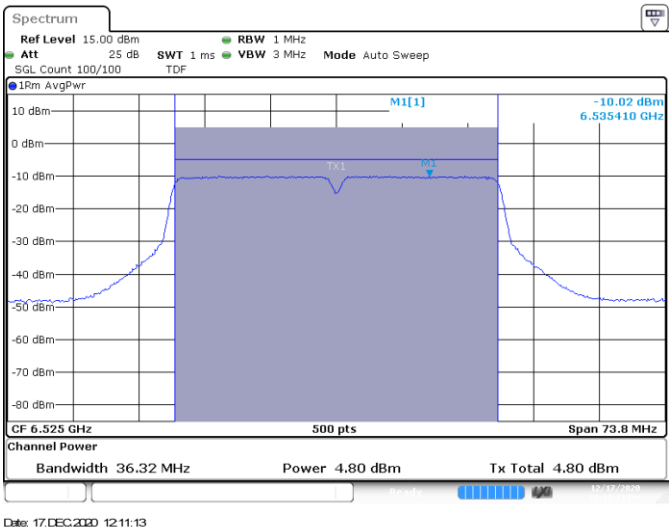
**UNII7**



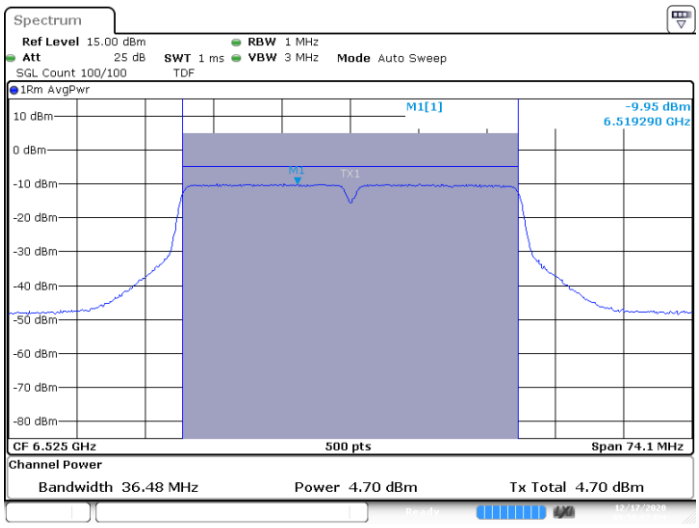

SISO B-802.11a-20MHz-Ch181-6855MHz-6



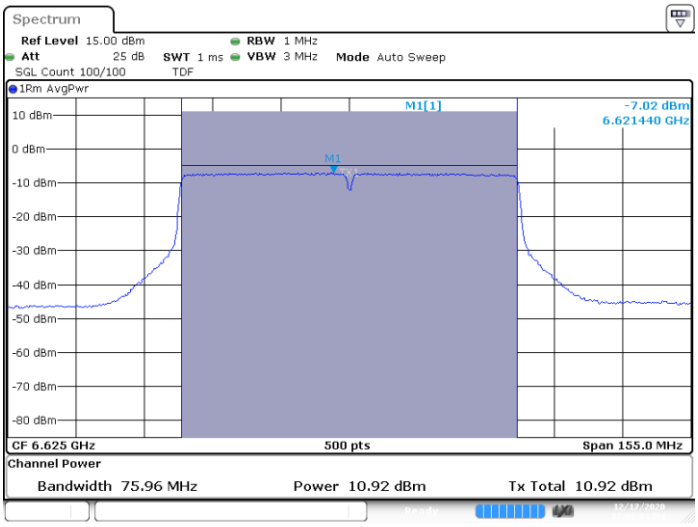

SISO B-802.11n-20MHz-Ch149-6695MHz-HT0



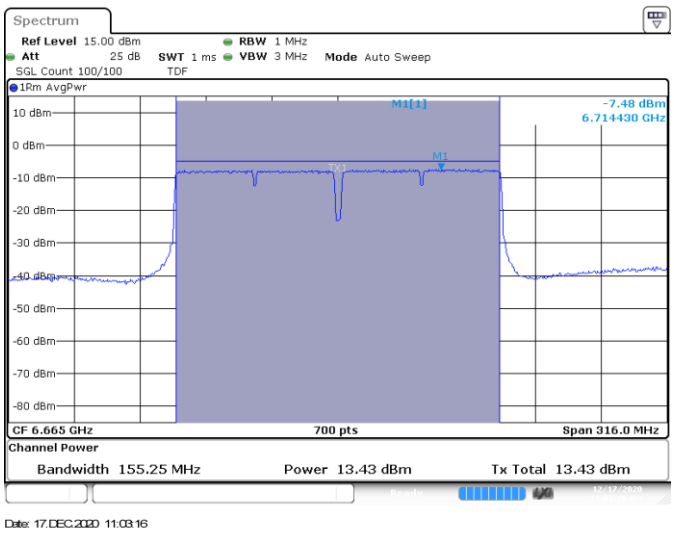

MIMO A-802.11n-40MHz-Ch115-6525MHz-HT8



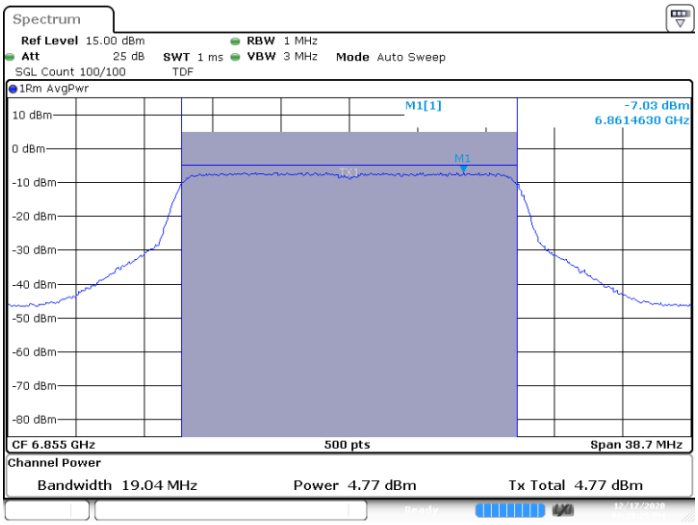

MIMO B-802.11n-40MHz-Ch115-6525MHz-HT8



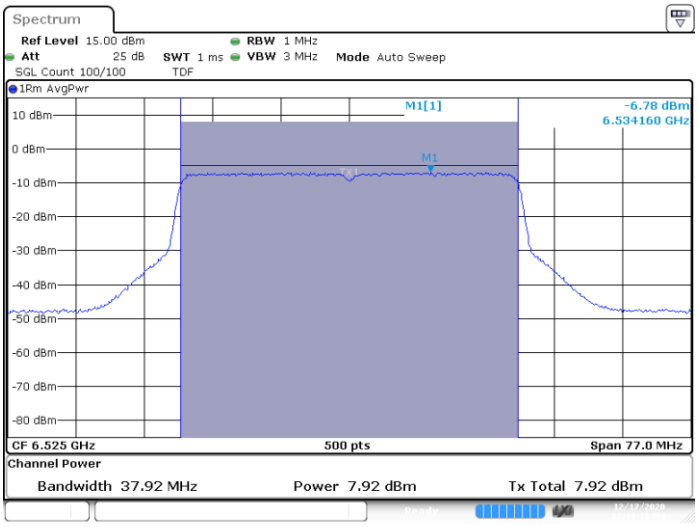

SISO B-802.11ac-80MHz-Ch135-6625MHz-VHT0



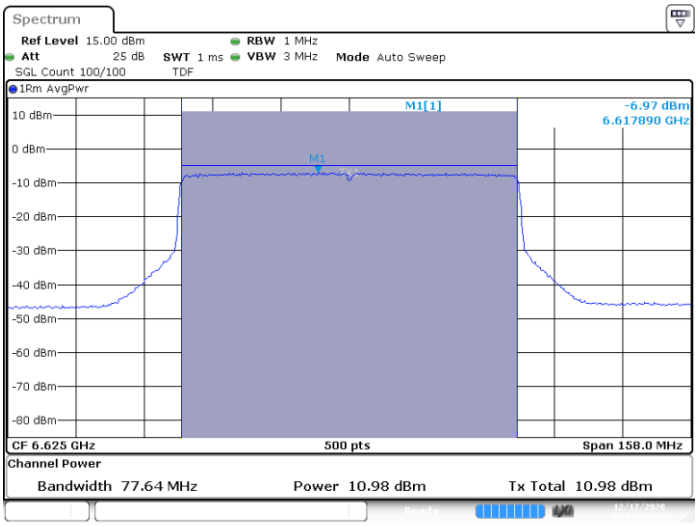

SISO A-802.11ac-160MHz-Ch143-6665MHz-VHT0



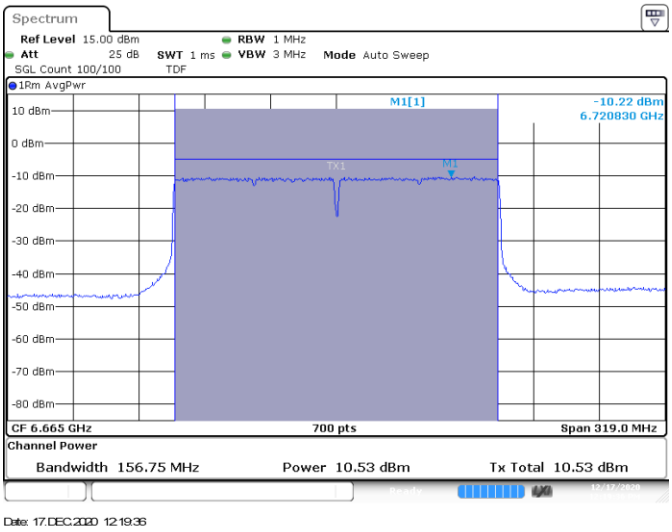

SISO B-802.11ax-20MHz-Ch181-6855MHz-HE0



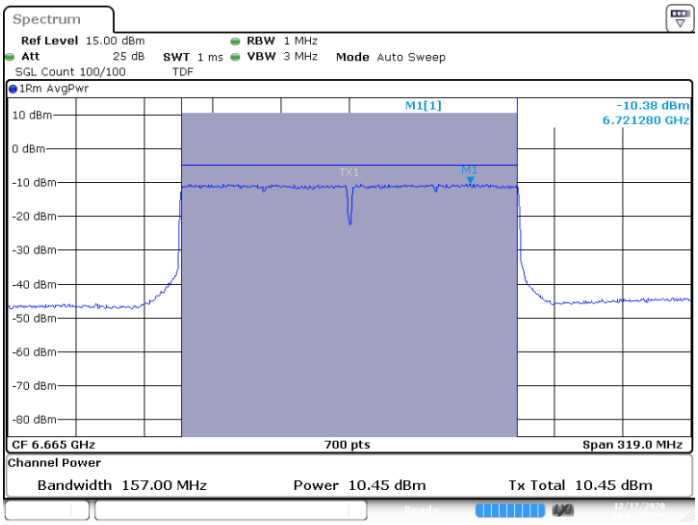

SISO B-802.11ax-40MHz-Ch115-6525MHz-HE0




SISO A-802.11ax-80MHz-Ch135-6625MHz-HE0

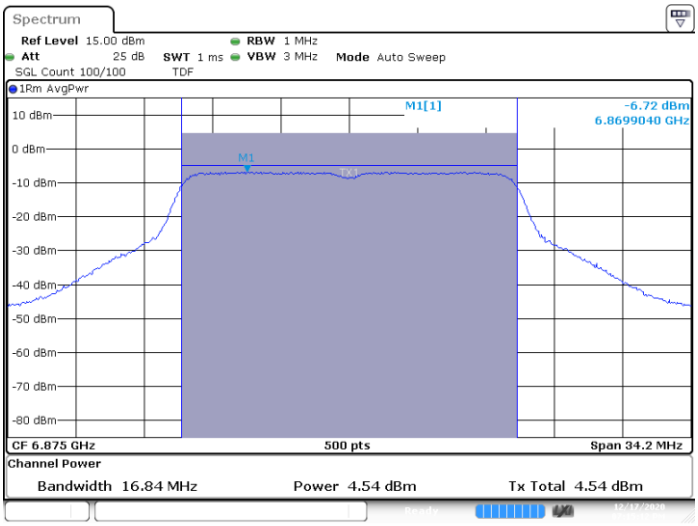



MIMO A-802.11ax-160MHz-Ch143-6665MHz-HE0

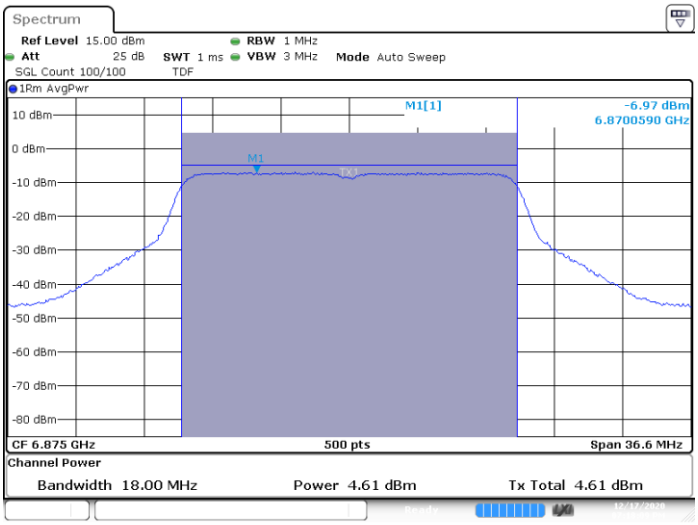



MIMO B-802.11ax-160MHz-Ch143-6665MHz-HE0

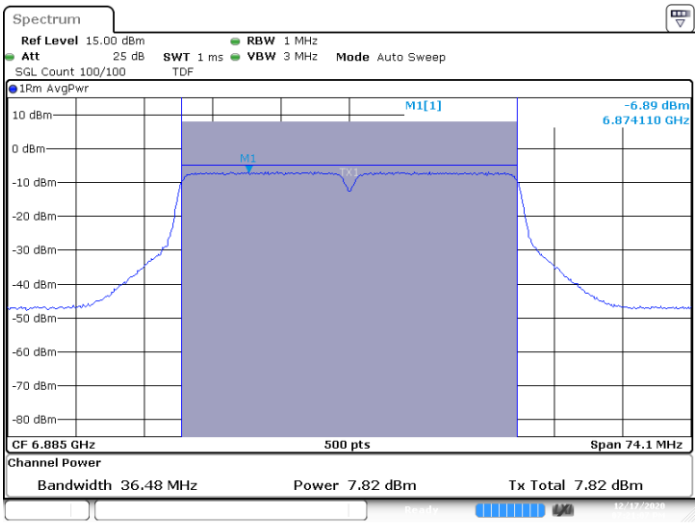
**UNII8**



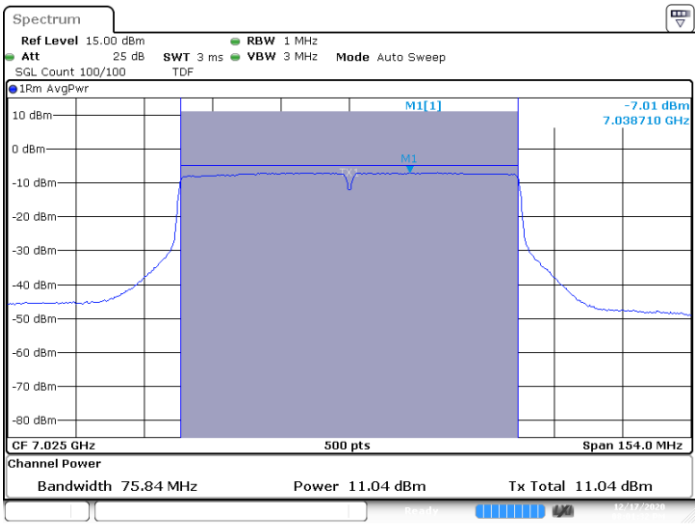

SISO B-802.11a-20MHz-Ch185-6875MHz-6



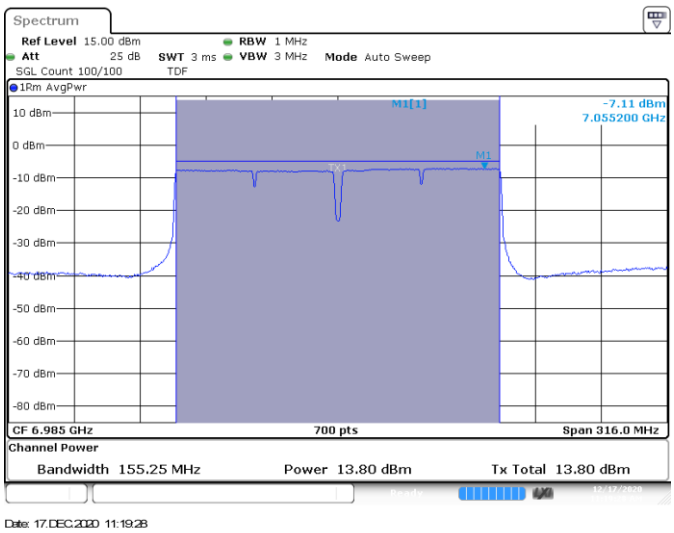

SISO B-802.11n-20MHz-Ch185-6875MHz -HT0



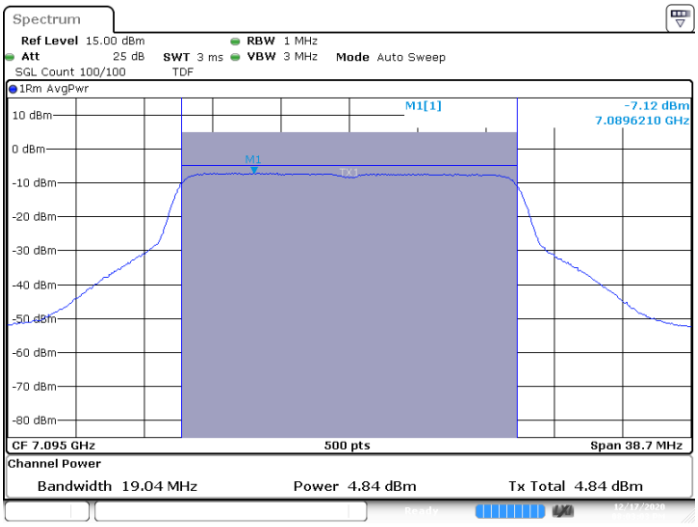

SISO B-802.11n-40MHz-Ch187-6885MHz-HT0



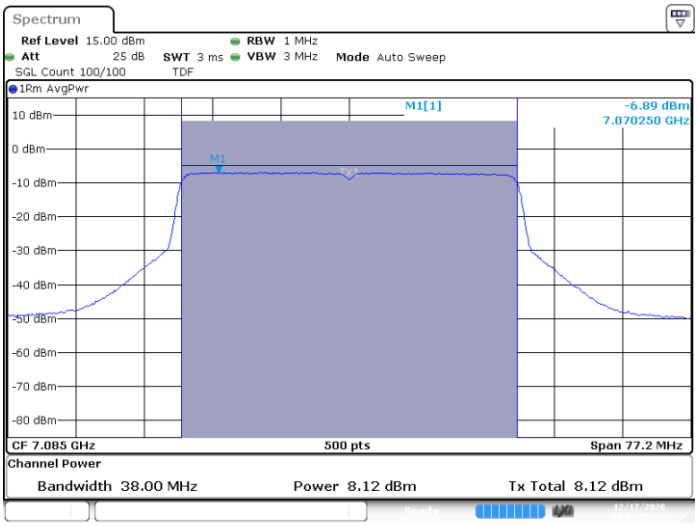

SISO B-802.11ac-80MHz-Ch215-7025MHz-VHT0



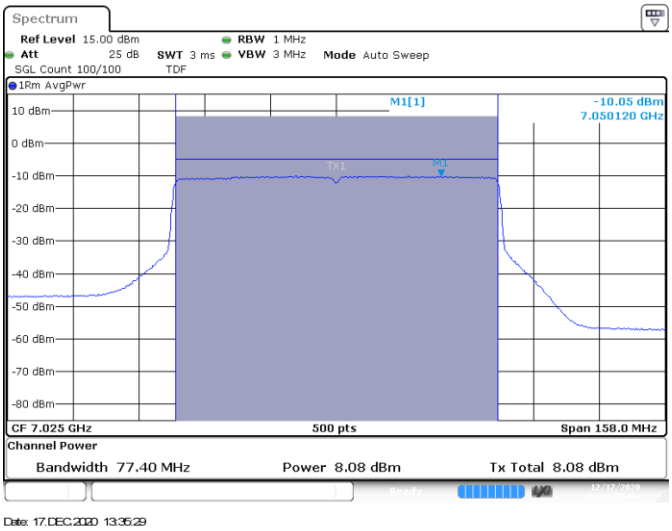

SISO A-802.11ac-160MHz-Ch207-6985MHz-VHT0



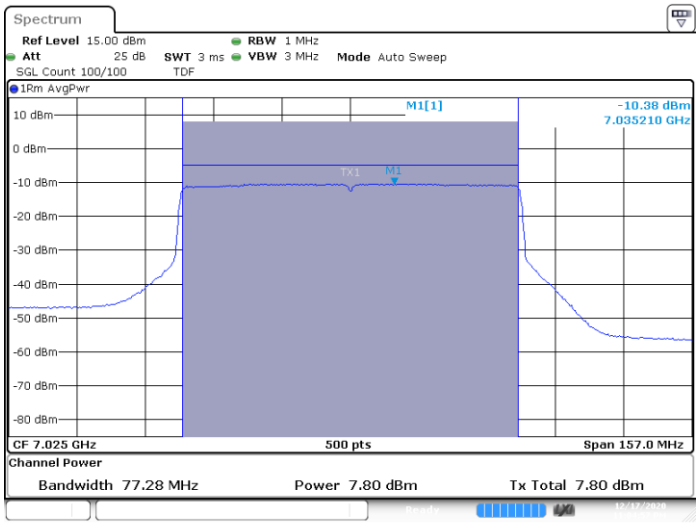

SISO B-802.11ax-20MHz-Ch229-7095MHz-HE0



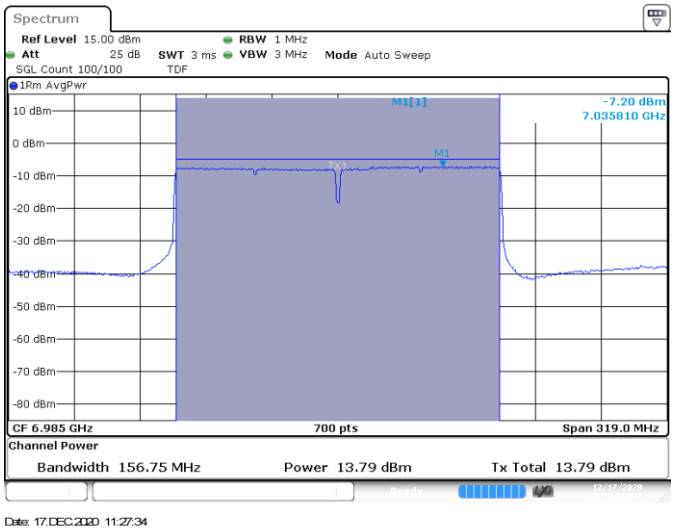

SISO B-802.11ax-40MHz-Ch227-7085MHz-HE0




MIMO A-802.11ax-80MHz-Ch215-7025MHz-HE0



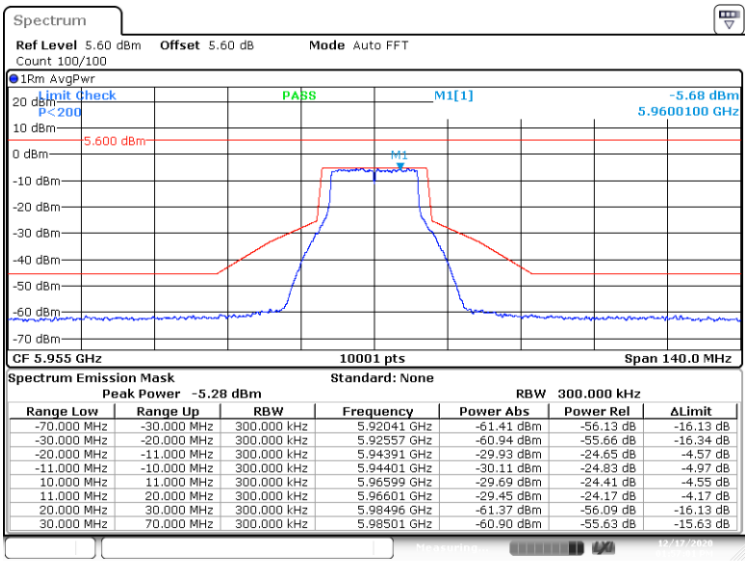

MIMO B-802.11ax-80MHz-Ch215-7025MHz-HE0




SISO A-802.11ax-160MHz-Ch207-6985MHz-HE0

### C.1.3 In-Band Emissions (Mask)

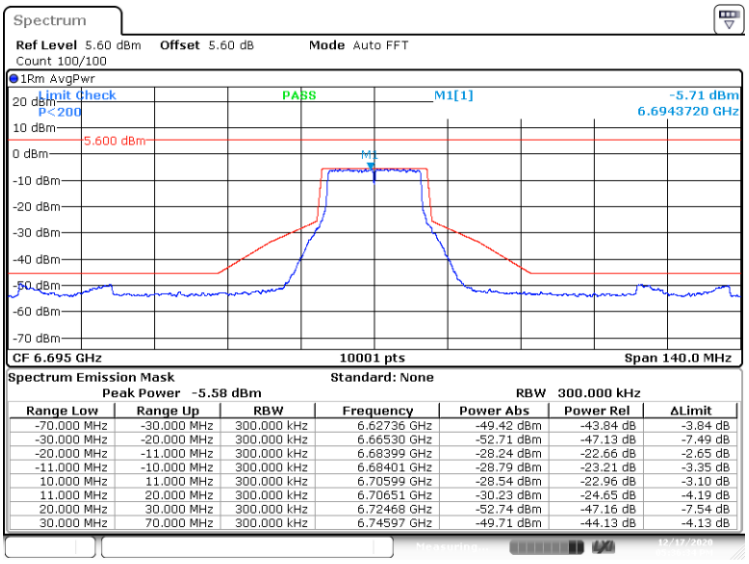
## SISO-A, 802.11a, 6Mbps




| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -70.000 MHz | -30.000 MHz | 300.000 kHz | 5.92041 GHz | -61.41 dBm | -56.13 dB | -16.13 dB |
| -30.000 MHz | -20.000 MHz | 300.000 kHz | 5.92557 GHz | -60.94 dBm | -55.66 dB | -16.34 dB |
| -20.000 MHz | -11.000 MHz | 300.000 kHz | 5.94391 GHz | -29.93 dBm | -24.65 dB | -4.57 dB |
| -11.000 MHz | -10.000 MHz | 300.000 kHz | 5.94401 GHz | -30.11 dBm | -24.83 dB | -4.97 dB |
| 10.000 MHz | 11.000 MHz | 300.000 kHz | 5.96599 GHz | -29.69 dBm | -24.41 dB | -4.55 dB |
| 11.000 MHz | 20.000 MHz | 300.000 kHz | 5.96601 GHz | -29.45 dBm | -24.17 dB | -4.17 dB |
| 20.000 MHz | 30.000 MHz | 300.000 kHz | 5.98496 GHz | -61.37 dBm | -56.09 dB | -16.13 dB |
| 30.000 MHz | 70.000 MHz | 300.000 kHz | 5.98501 GHz | -60.90 dBm | -55.63 dB | -15.63 dB |

Channel 1

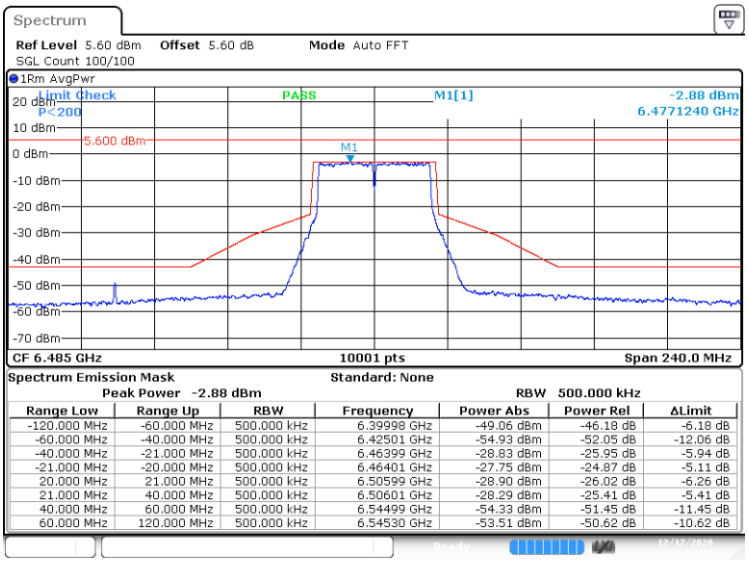
## SISO-B, 802.11n20, HT0




| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -70.000 MHz | -30.000 MHz | 300.000 kHz | 6.62736 GHz | -49.42 dBm | -43.84 dB | -3.84 dB |
| -30.000 MHz | -20.000 MHz | 300.000 kHz | 6.66530 GHz | -52.71 dBm | -47.13 dB | -7.49 dB |
| -20.000 MHz | -11.000 MHz | 300.000 kHz | 6.68399 GHz | -28.24 dBm | -22.66 dB | -2.65 dB |
| -11.000 MHz | -10.000 MHz | 300.000 kHz | 6.68401 GHz | -28.79 dBm | -23.21 dB | -3.35 dB |
| 10.000 MHz | 11.000 MHz | 300.000 kHz | 6.70599 GHz | -28.54 dBm | -22.96 dB | -3.10 dB |
| 11.000 MHz | 20.000 MHz | 300.000 kHz | 6.70651 GHz | -30.23 dBm | -24.65 dB | -4.19 dB |
| 20.000 MHz | 30.000 MHz | 300.000 kHz | 6.72468 GHz | -52.74 dBm | -47.16 dB | -7.54 dB |
| 30.000 MHz | 70.000 MHz | 300.000 kHz | 6.74597 GHz | -49.71 dBm | -44.13 dB | -4.13 dB |

Channel 149

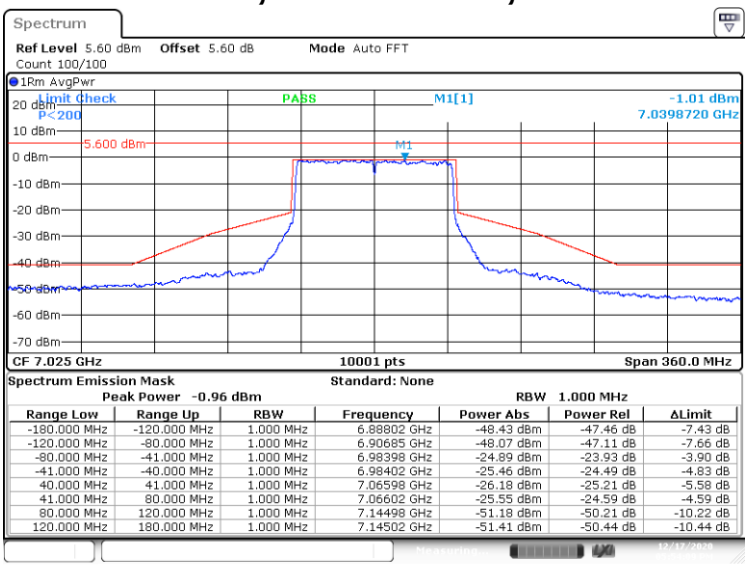
# SISO-B, 802.11n40, HT0




| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -120.000 MHz | -60.000 MHz | 500.000 kHz | 6.39998 GHz | -49.06 dBm | -46.18 dB | -6.18 dB |
| -60.000 MHz | -40.000 MHz | 500.000 kHz | 6.42501 GHz | -54.93 dBm | -52.05 dB | -12.06 dB |
| -40.000 MHz | -21.000 MHz | 500.000 kHz | 6.46399 GHz | -28.83 dBm | -25.95 dB | -5.94 dB |
| -21.000 MHz | -20.000 MHz | 500.000 kHz | 6.46401 GHz | -27.75 dBm | -24.87 dB | -5.11 dB |
| 20.000 MHz | 21.000 MHz | 500.000 kHz | 6.50599 GHz | -28.90 dBm | -26.02 dB | -6.26 dB |
| 21.000 MHz | 40.000 MHz | 500.000 kHz | 6.50601 GHz | -28.29 dBm | -25.41 dB | -5.41 dB |
| 40.000 MHz | 60.000 MHz | 500.000 kHz | 6.54499 GHz | -54.33 dBm | -51.45 dB | -11.45 dB |
| 60.000 MHz | 120.000 MHz | 500.000 kHz | 6.54530 GHz | -53.51 dBm | -50.62 dB | -10.62 dB |

Channel 107

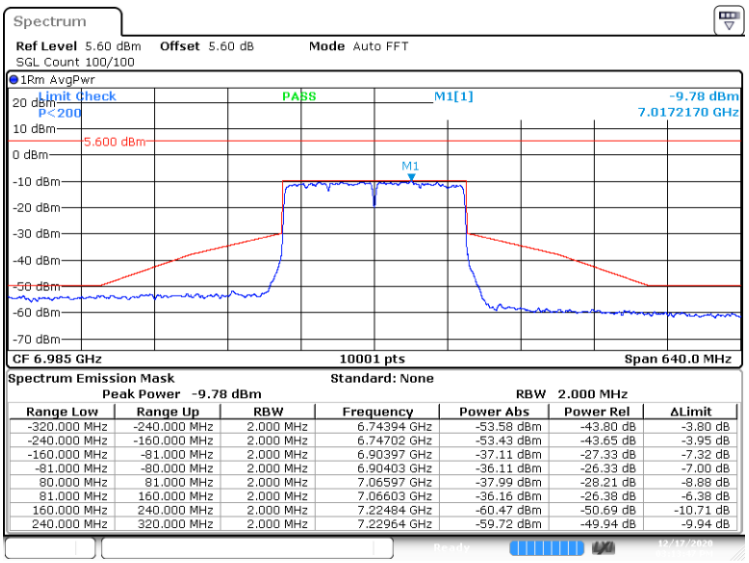
# SISO-B, 802.11ac80, VHT0




| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -180.000 MHz | -120.000 MHz | 1.000 MHz | 6.88802 GHz | -48.43 dBm | -47.46 dB | -7.43 dB |
| -120.000 MHz | -80.000 MHz | 1.000 MHz | 6.90685 GHz | -48.07 dBm | -47.11 dB | -7.66 dB |
| -80.000 MHz | -41.000 MHz | 1.000 MHz | 6.98398 GHz | -24.89 dBm | -23.93 dB | -3.90 dB |
| -41.000 MHz | -40.000 MHz | 1.000 MHz | 6.98402 GHz | -25.46 dBm | -24.49 dB | -4.83 dB |
| 40.000 MHz | 41.000 MHz | 1.000 MHz | 7.06598 GHz | -26.18 dBm | -25.21 dB | -5.58 dB |
| 41.000 MHz | 80.000 MHz | 1.000 MHz | 7.06602 GHz | -25.55 dBm | -24.59 dB | -4.59 dB |
| 80.000 MHz | 120.000 MHz | 1.000 MHz | 7.14498 GHz | -51.18 dBm | -50.21 dB | -10.22 dB |
| 120.000 MHz | 180.000 MHz | 1.000 MHz | 7.14502 GHz | -51.41 dBm | -50.44 dB | -10.44 dB |

Channel 215

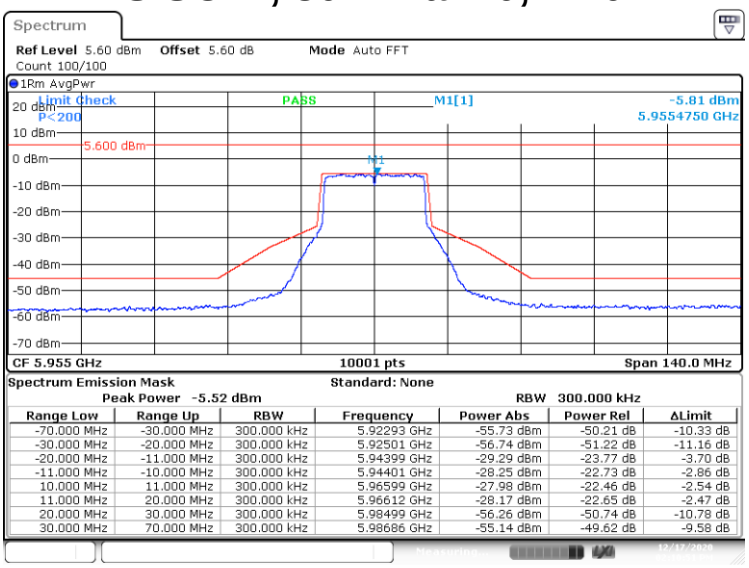
# SISO-A, 802.11ac160, VHT0




| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -320.000 MHz | -240.000 MHz | 2.000 MHz | 6.74394 GHz | -53.58 dBm | -43.80 dB | -3.80 dB |
| -240.000 MHz | -160.000 MHz | 2.000 MHz | 6.74702 GHz | -53.43 dBm | -43.65 dB | -3.95 dB |
| -160.000 MHz | -81.000 MHz | 2.000 MHz | 6.90397 GHz | -37.11 dBm | -27.33 dB | -7.32 dB |
| -81.000 MHz | -80.000 MHz | 2.000 MHz | 6.90403 GHz | -36.11 dBm | -26.33 dB | -7.00 dB |
| 80.000 MHz | 81.000 MHz | 2.000 MHz | 7.06597 GHz | -37.99 dBm | -28.21 dB | -8.88 dB |
| 81.000 MHz | 160.000 MHz | 2.000 MHz | 7.06603 GHz | -36.16 dBm | -26.38 dB | -6.38 dB |
| 160.000 MHz | 240.000 MHz | 2.000 MHz | 7.22484 GHz | -60.47 dBm | -50.69 dB | -10.71 dB |
| 240.000 MHz | 320.000 MHz | 2.000 MHz | 7.22964 GHz | -59.72 dBm | -49.94 dB | -9.94 dB |

Channel 207

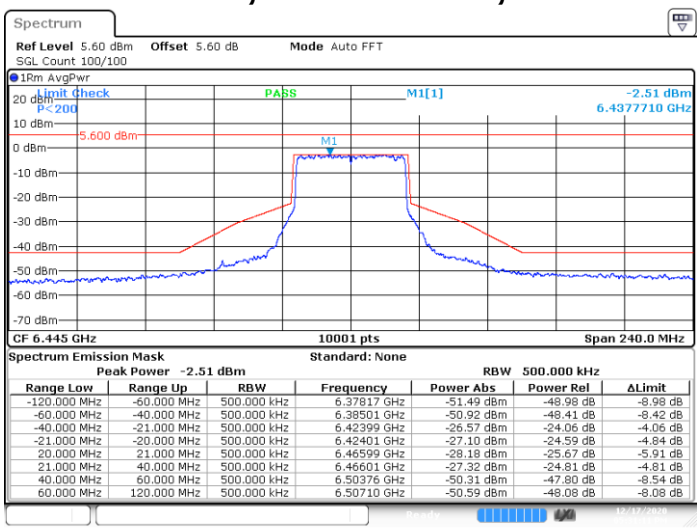
# SISO-A, 802.11ax20, HE0




| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -70.000 MHz | -30.000 MHz | 300.000 kHz | 5.92293 GHz | -55.73 dBm | -50.21 dB | -10.33 dB |
| -30.000 MHz | -20.000 MHz | 300.000 kHz | 5.92501 GHz | -56.74 dBm | -51.22 dB | -11.16 dB |
| -20.000 MHz | -11.000 MHz | 300.000 kHz | 5.94399 GHz | -29.29 dBm | -23.77 dB | -3.70 dB |
| -11.000 MHz | -10.000 MHz | 300.000 kHz | 5.94401 GHz | -28.25 dBm | -22.73 dB | -2.86 dB |
| 10.000 MHz | 11.000 MHz | 300.000 kHz | 5.96599 GHz | -27.98 dBm | -22.46 dB | -2.54 dB |
| 11.000 MHz | 20.000 MHz | 300.000 kHz | 5.96612 GHz | -28.17 dBm | -22.65 dB | -2.47 dB |
| 20.000 MHz | 30.000 MHz | 300.000 kHz | 5.98499 GHz | -56.26 dBm | -50.74 dB | -10.78 dB |
| 30.000 MHz | 70.000 MHz | 300.000 kHz | 5.98686 GHz | -55.14 dBm | -49.62 dB | -9.58 dB |

Channel 1

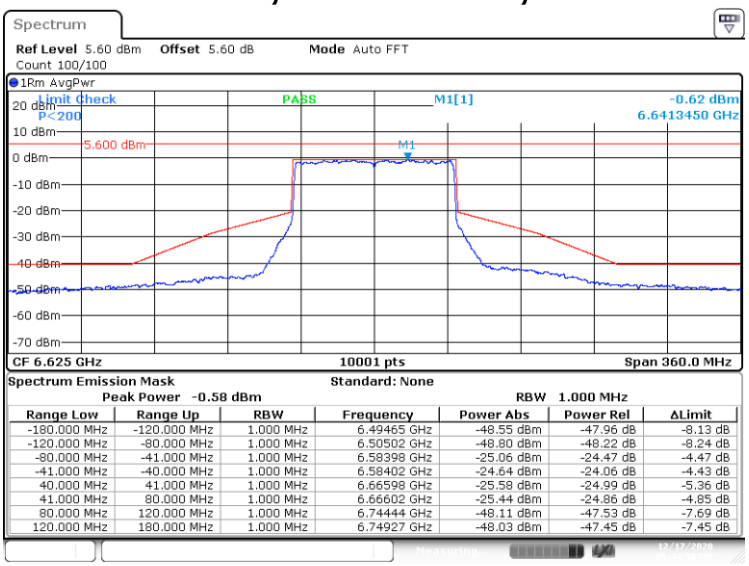
# SISO-B, 802.11ax40, HE0




| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -120.000 MHz | -60.000 MHz | 500.000 kHz | 6.37817 GHz | -51.49 dBm | -48.98 dB | -8.98 dB |
| -60.000 MHz | -40.000 MHz | 500.000 kHz | 6.38501 GHz | -50.92 dBm | -48.41 dB | -8.42 dB |
| -40.000 MHz | -21.000 MHz | 500.000 kHz | 6.42399 GHz | -26.57 dBm | -24.06 dB | -4.06 dB |
| -21.000 MHz | -20.000 MHz | 500.000 kHz | 6.42401 GHz | -27.10 dBm | -24.59 dB | -4.84 dB |
| 20.000 MHz | 21.000 MHz | 500.000 kHz | 6.46599 GHz | -28.18 dBm | -25.67 dB | -5.91 dB |
| 21.000 MHz | 40.000 MHz | 500.000 kHz | 6.46601 GHz | -27.32 dBm | -24.81 dB | -4.81 dB |
| 40.000 MHz | 60.000 MHz | 500.000 kHz | 6.50376 GHz | -50.31 dBm | -47.80 dB | -8.54 dB |
| 60.000 MHz | 120.000 MHz | 500.000 kHz | 6.50710 GHz | -50.59 dBm | -48.08 dB | -8.08 dB |

Channel 99

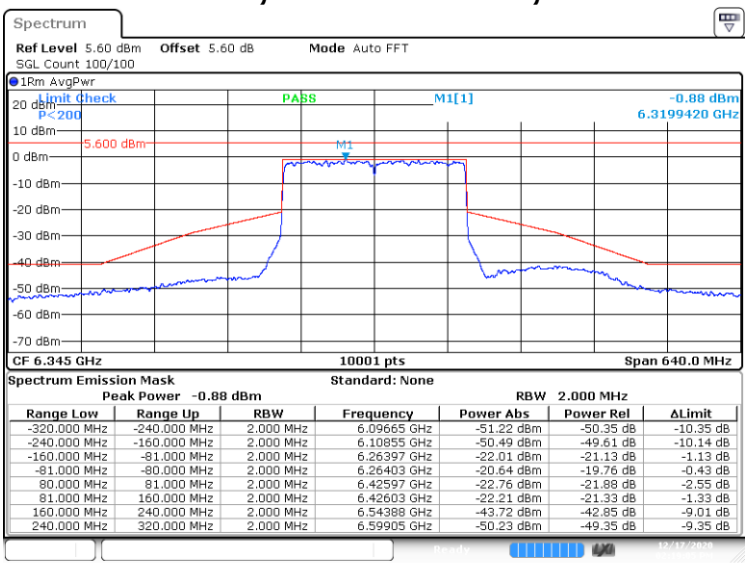
# SISO-B, 802.11ax80, HE0




| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -180.000 MHz | -120.000 MHz | 1.000 MHz | 6.49465 GHz | -48.55 dBm | -47.96 dB | -8.13 dB |
| -120.000 MHz | -80.000 MHz | 1.000 MHz | 6.50502 GHz | -48.80 dBm | -48.22 dB | -8.24 dB |
| -80.000 MHz | -41.000 MHz | 1.000 MHz | 6.58398 GHz | -25.06 dBm | -24.47 dB | -4.47 dB |
| -41.000 MHz | -40.000 MHz | 1.000 MHz | 6.58402 GHz | -24.64 dBm | -24.06 dB | -4.43 dB |
| 40.000 MHz | 41.000 MHz | 1.000 MHz | 6.66598 GHz | -25.58 dBm | -24.99 dB | -5.36 dB |
| 41.000 MHz | 80.000 MHz | 1.000 MHz | 6.66602 GHz | -25.44 dBm | -24.86 dB | -4.85 dB |
| 80.000 MHz | 120.000 MHz | 1.000 MHz | 6.74444 GHz | -48.11 dBm | -47.53 dB | -7.69 dB |
| 120.000 MHz | 180.000 MHz | 1.000 MHz | 6.74927 GHz | -48.03 dBm | -47.45 dB | -7.45 dB |

Channel 135

# SISO-A, 802.11ax160, HE0



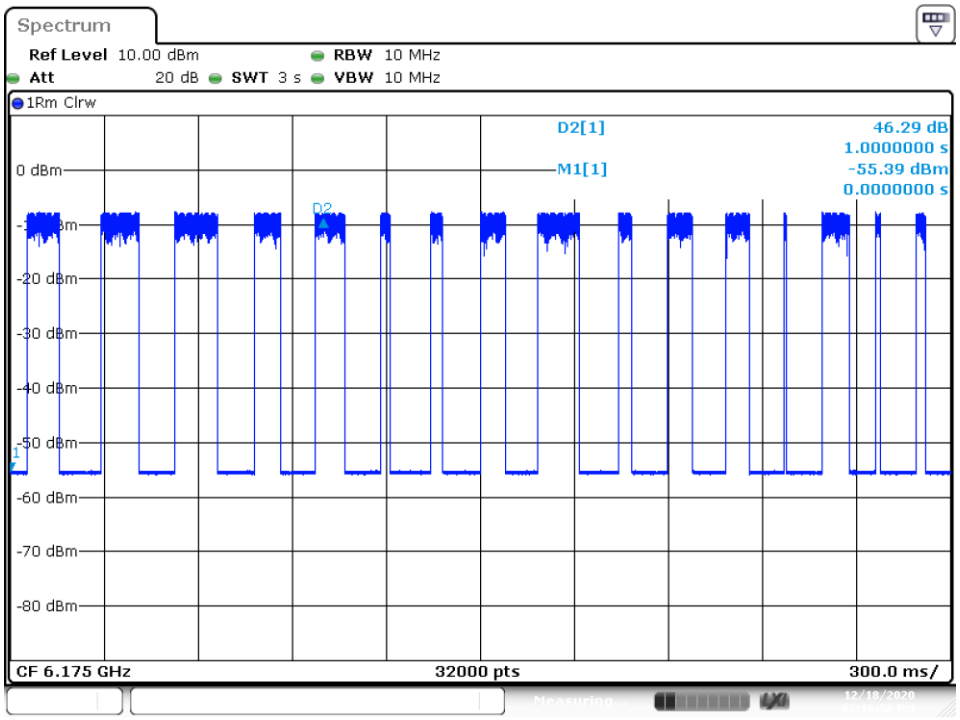

Spectrum Emission Mask Standard: None

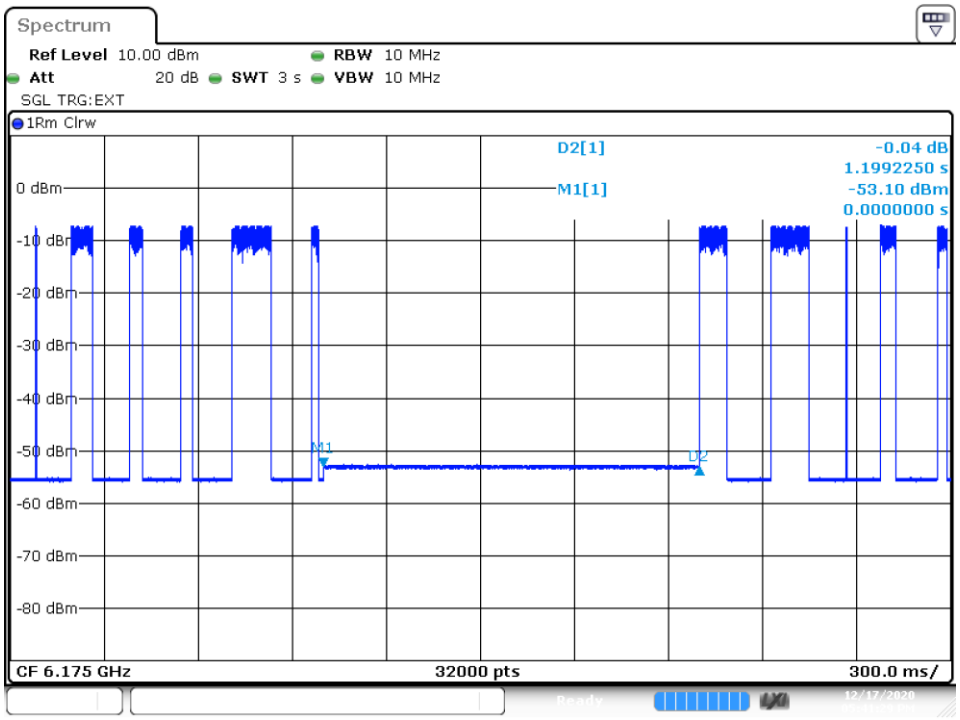
Peak Power -0.88 dBm RBW 2.000 MHz

| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -320.000 MHz | -240.000 MHz | 2.000 MHz | 6.09665 GHz | -51.22 dBm | -50.35 dB | -10.35 dB |
| -240.000 MHz | -160.000 MHz | 2.000 MHz | 6.10855 GHz | -50.49 dBm | -49.61 dB | -10.14 dB |
| -160.000 MHz | -81.000 MHz | 2.000 MHz | 6.26397 GHz | -22.01 dBm | -21.13 dB | -1.13 dB |
| -81.000 MHz | -80.000 MHz | 2.000 MHz | 6.26403 GHz | -20.64 dBm | -19.76 dB | -0.43 dB |
| 80.000 MHz | 81.000 MHz | 2.000 MHz | 6.42597 GHz | -22.76 dBm | -21.88 dB | -2.55 dB |
| 81.000 MHz | 160.000 MHz | 2.000 MHz | 6.42603 GHz | -22.21 dBm | -21.33 dB | -1.33 dB |
| 160.000 MHz | 240.000 MHz | 2.000 MHz | 6.54388 GHz | -43.72 dBm | -42.85 dB | -9.01 dB |
| 240.000 MHz | 320.000 MHz | 2.000 MHz | 6.59905 GHz | -50.23 dBm | -49.35 dB | -9.35 dB |

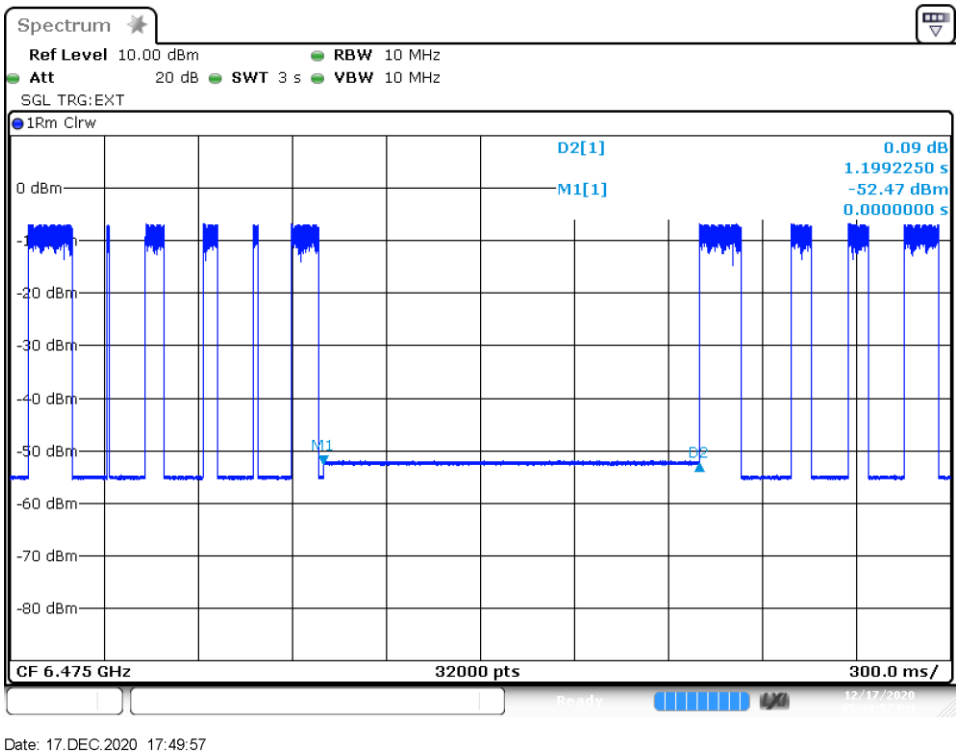
Channel 79

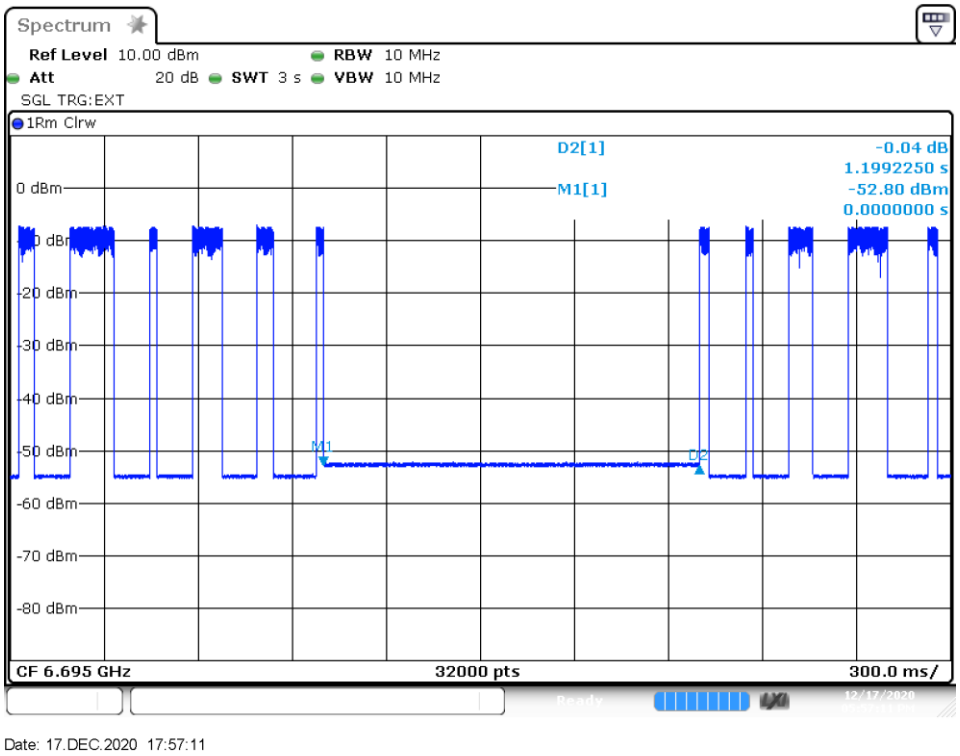
### C.1.4 Contention-based protocol

| EUT transmission plot |
|---|
|  |

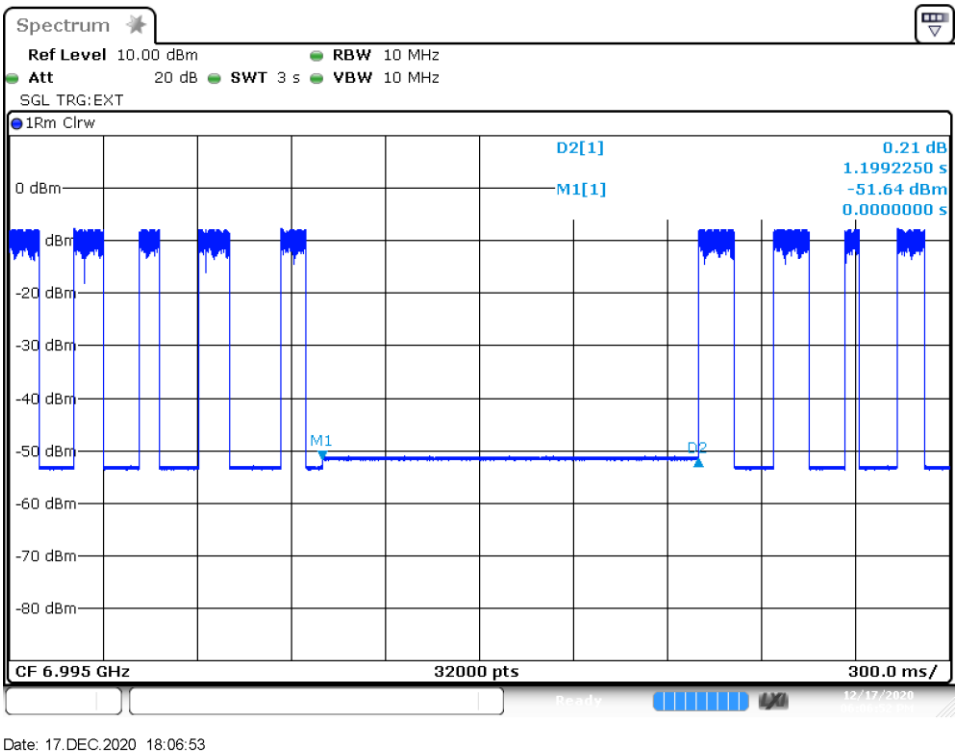
| Channel 45 – Incumbent signal 6175 MHz |
|---|
|  |
| Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal |

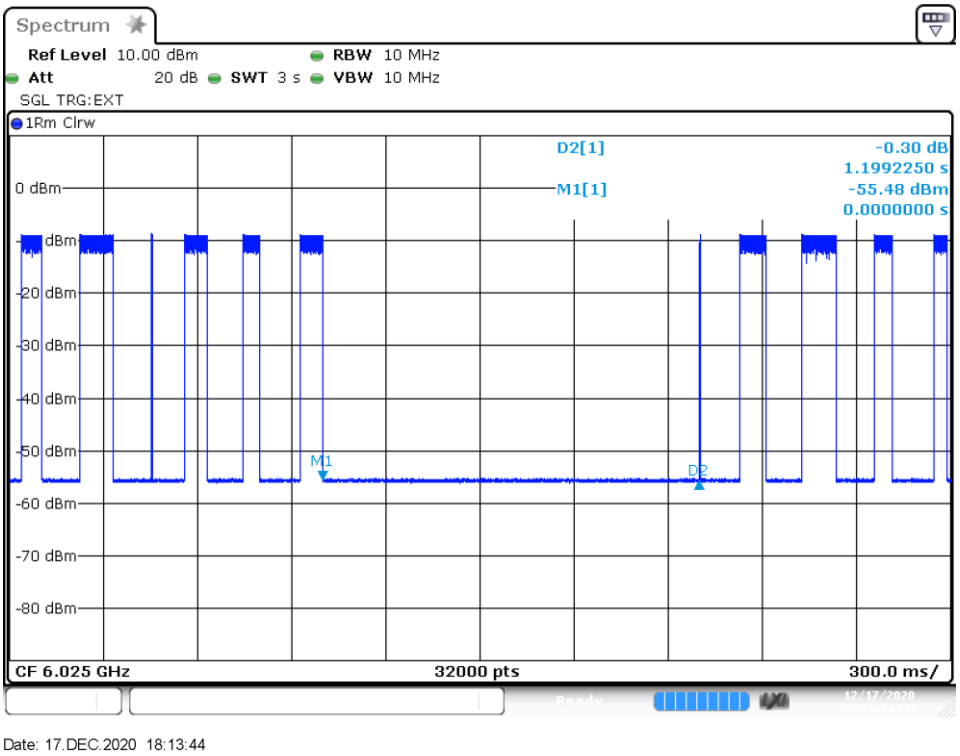


| Channel 105 - Incumbent signal 6475 MHz |
|---|
|  |
| Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal |

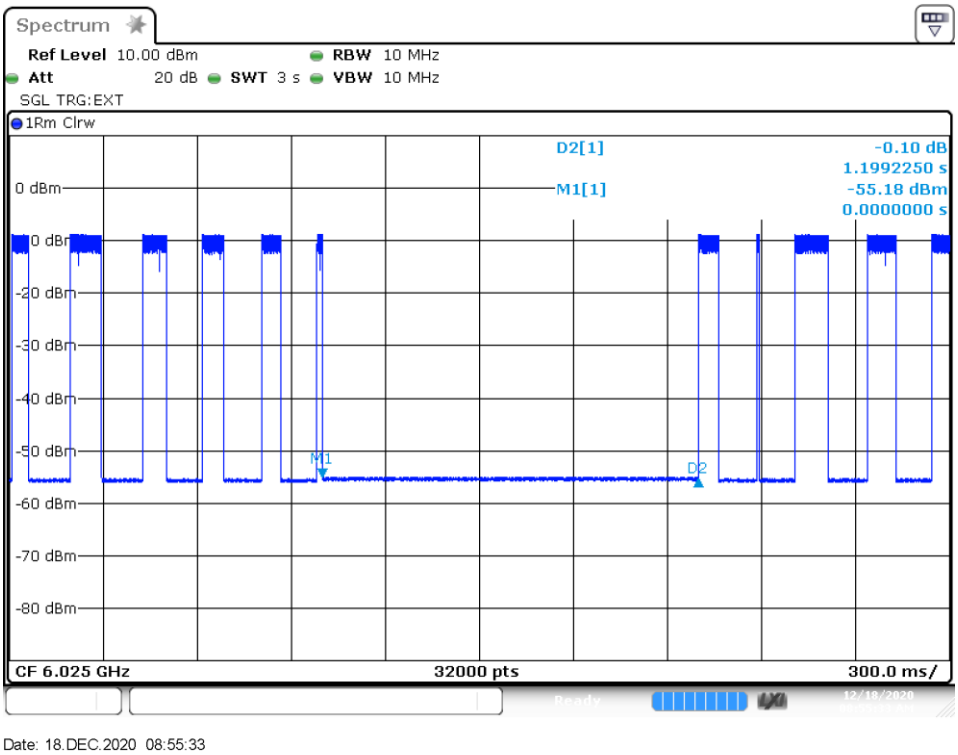
| Channel 149 - Incumbent signal 6695 MHz |
|---|
|  |
| Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal |

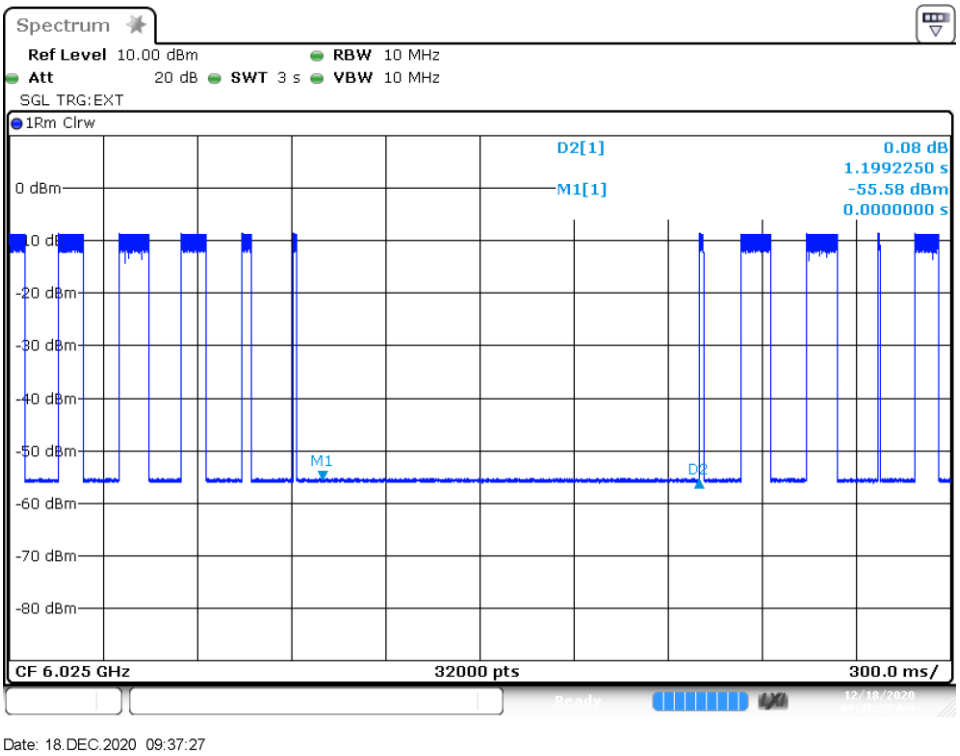


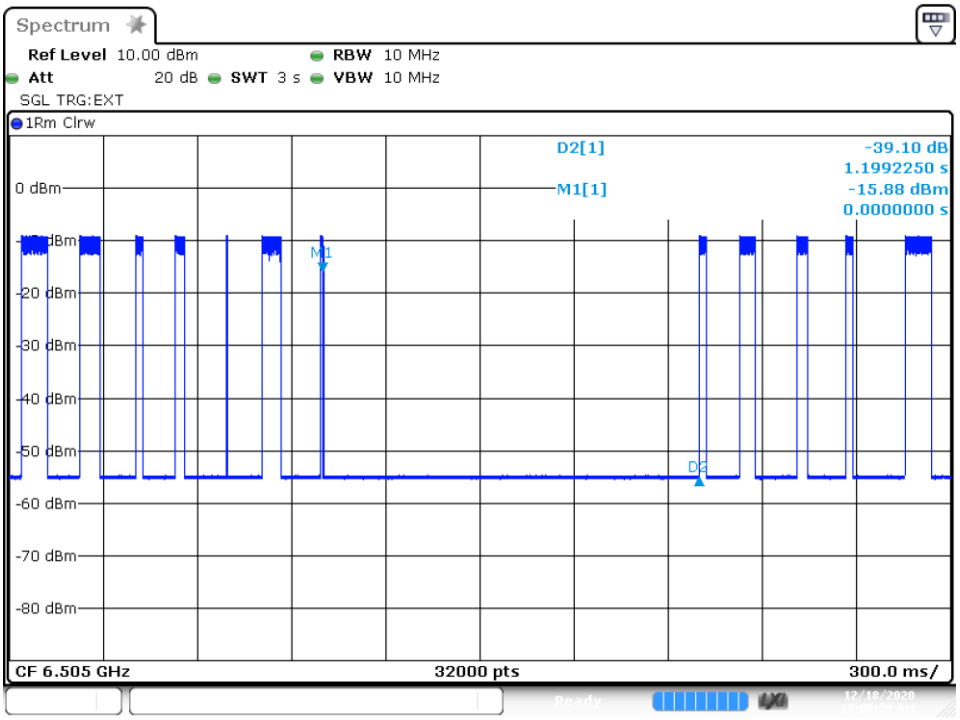
| Channel 209 - Incumbent signal 6995 MHz |
|---|
|  |
| Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal |

| Channel 15 - Incumbent signal 5950 MHz |
|---|
|  |
| Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal |

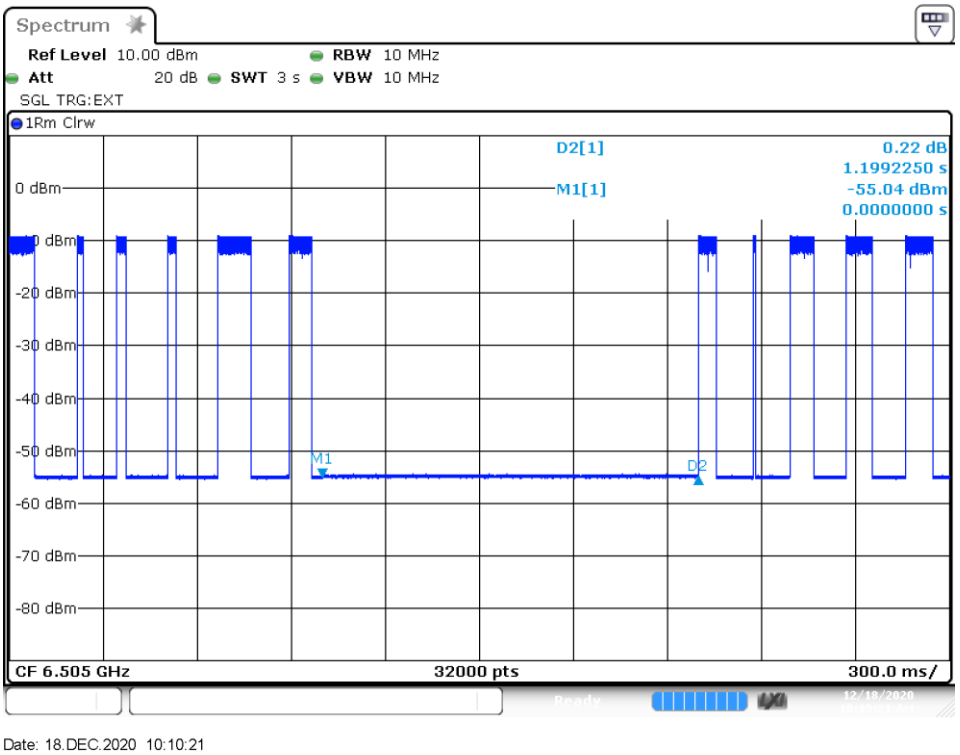


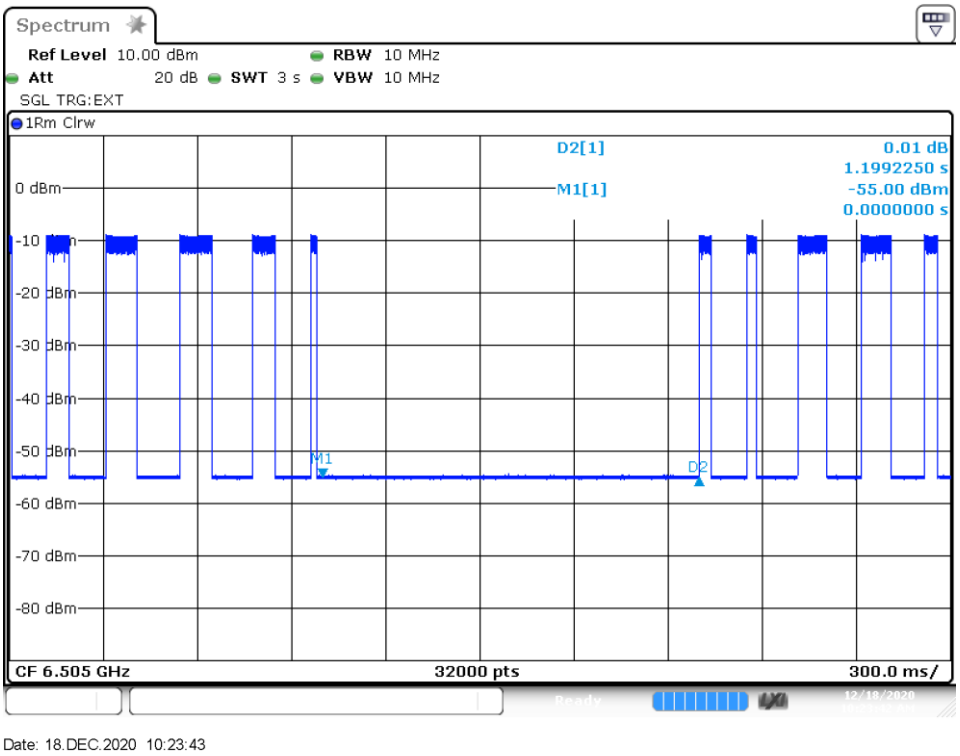
| Channel 15 - Incumbent signal 6025 MHz |
|---|
|  |
| Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal |

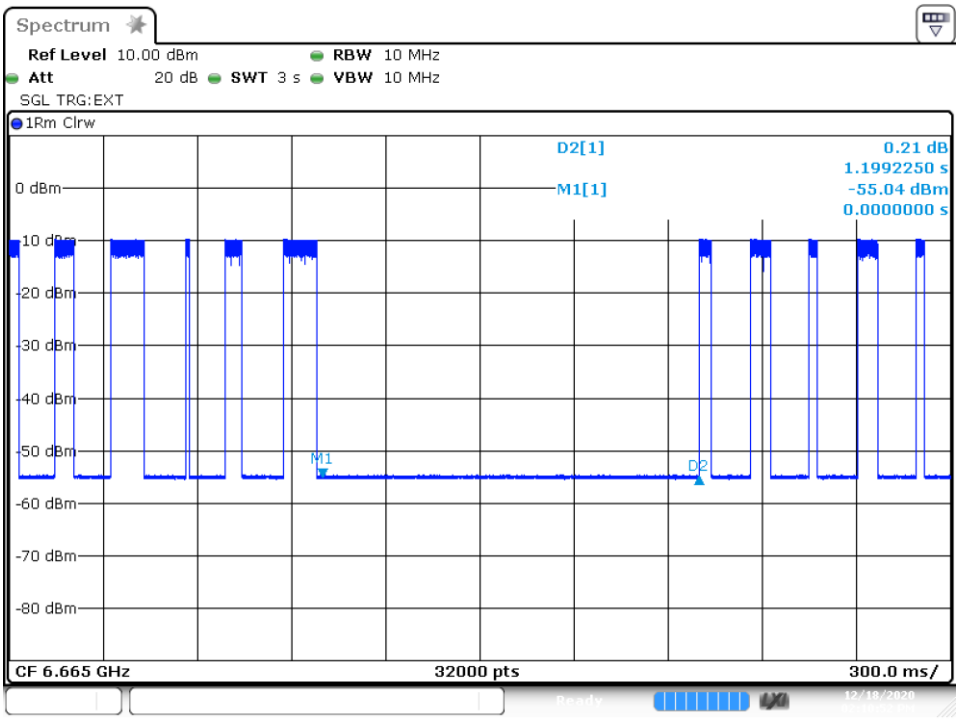
| Channel 15 - Incumbent signal 6100 MHz |
|---|
|  |
| Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal |

| Channel 111 - Incumbent signal 6430 MHz |
|---|
|  |
| Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal |

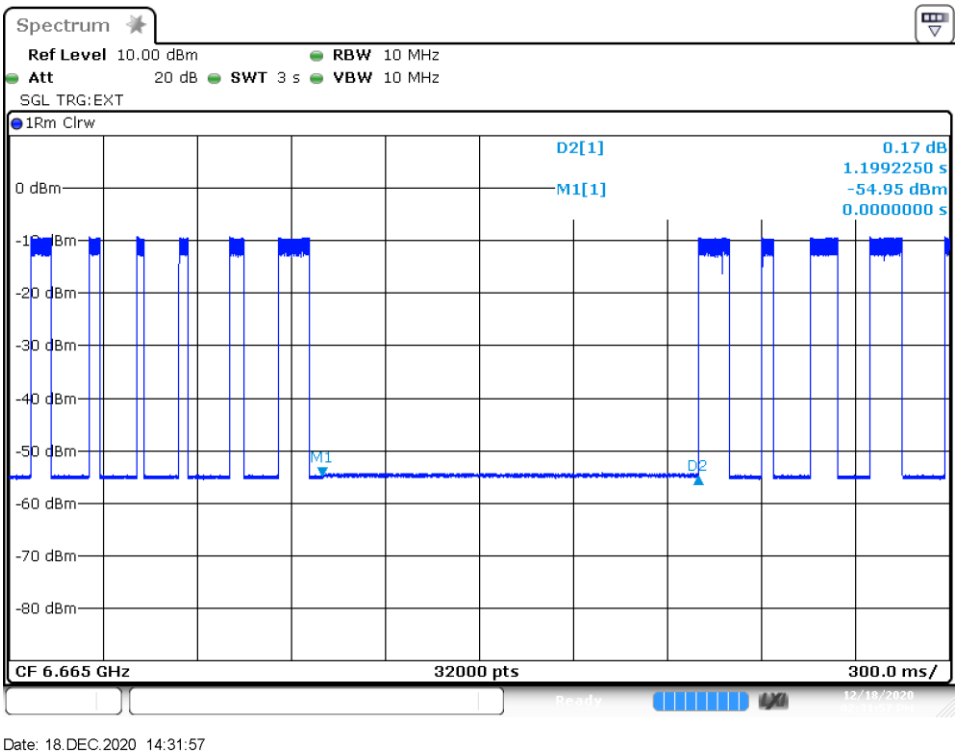


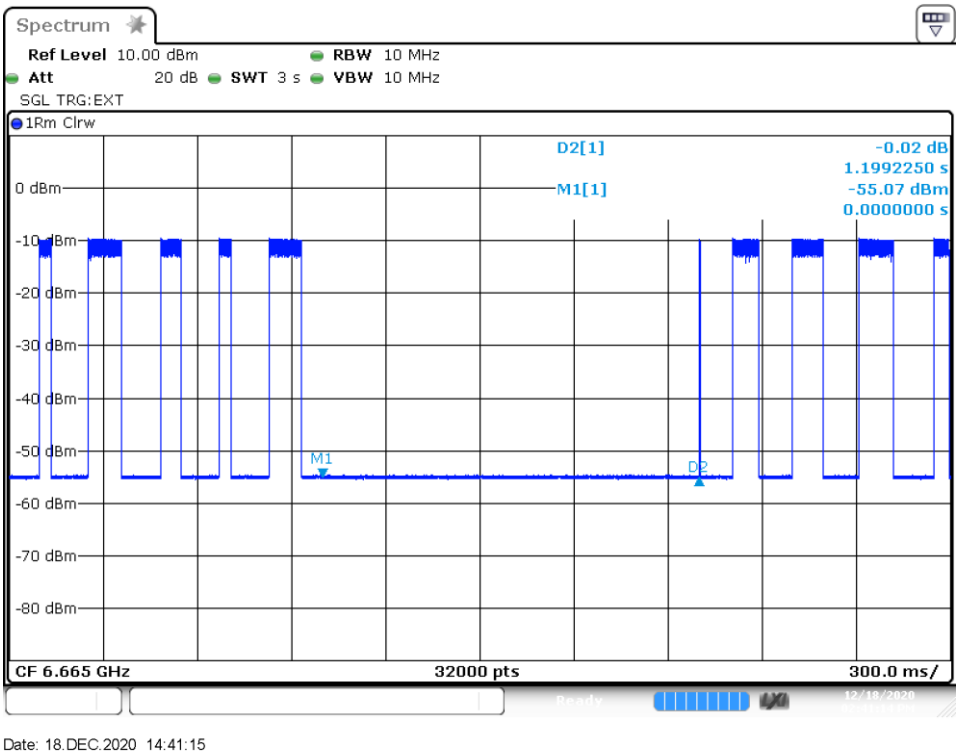
| Channel 111 - Incumbent signal 6505 MHz |
|---|
|  |
| Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal |

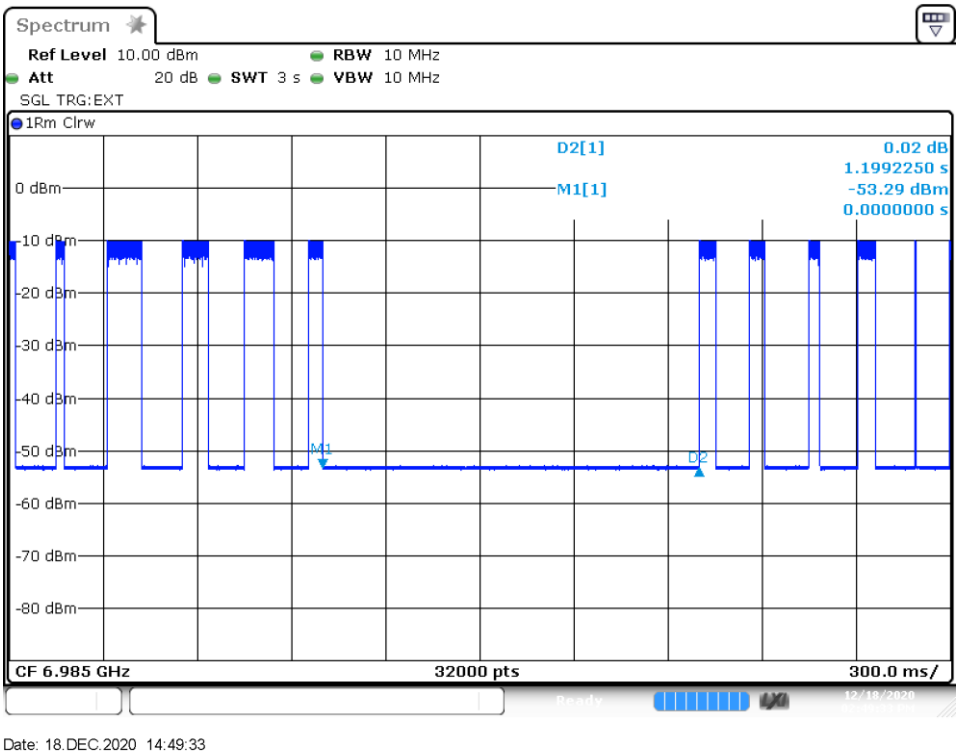
| Channel 111 - Incumbent signal 6580 MHz |
|---|
|  |
| Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal |

| Channel 143 - Incumbent signal 6590 MHz |
|---|
|  |
| Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal |

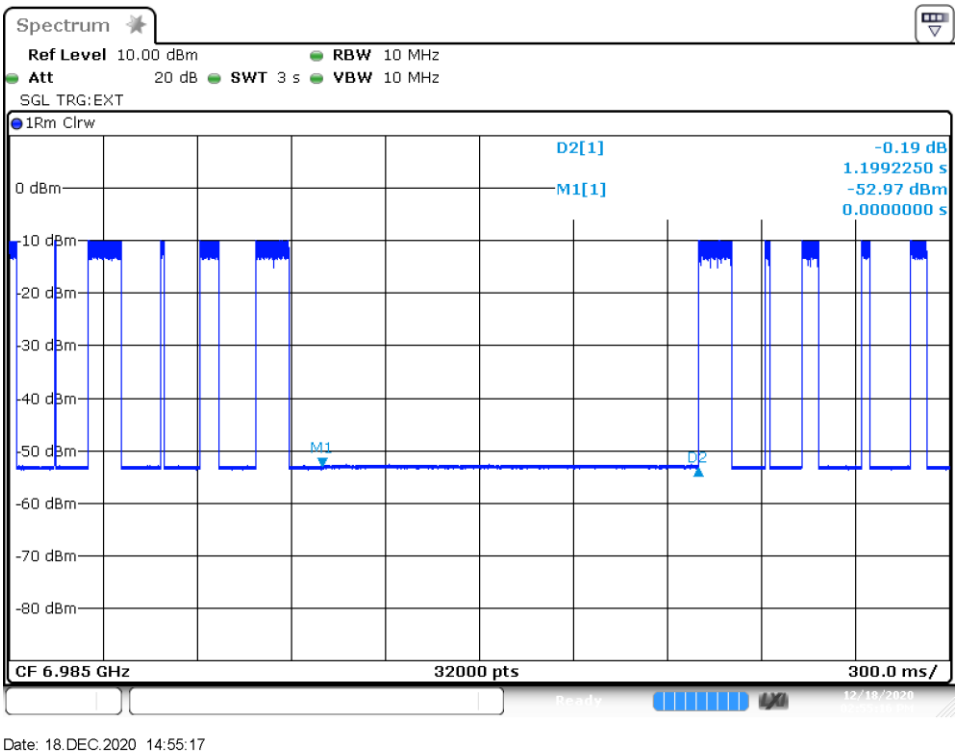


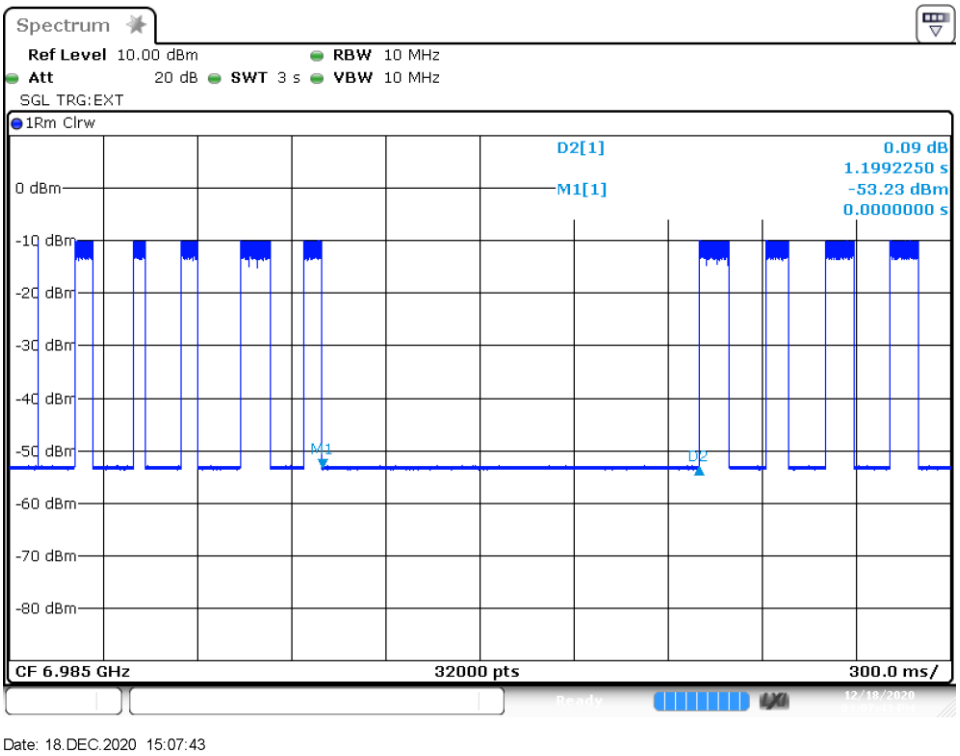
| Channel 143 - Incumbent signal 6665 MHz |
|---|
|  |
| Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal |

| Channel 143 - Incumbent signal 6740 MHz |
|---|
|  |
| Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal |

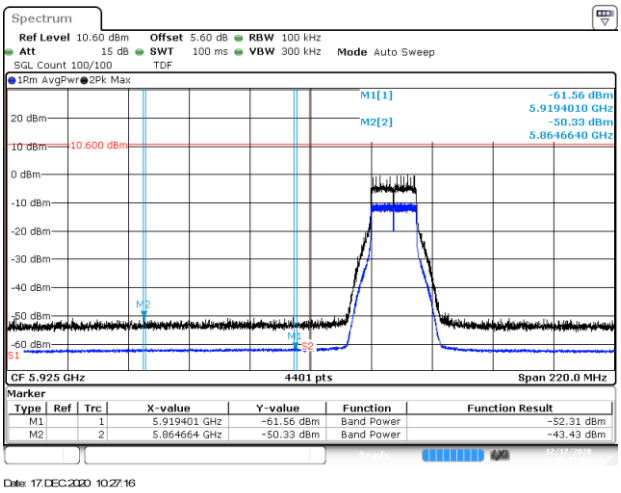
| Channel 207 - Incumbent signal 6910 MHz |
|---|
|  |
| Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal |



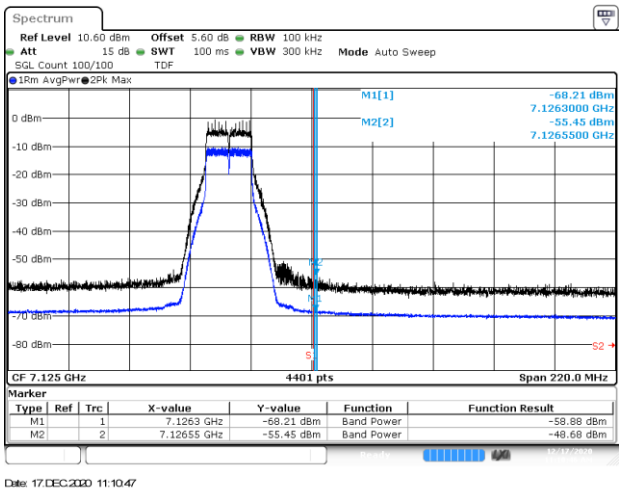
| Channel 207 - Incumbent signal 6985 MHz |
|---|
|  |
| Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal |

| Channel 207 - Incumbent signal 7060 MHz |
|---|
|  |
| Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal |

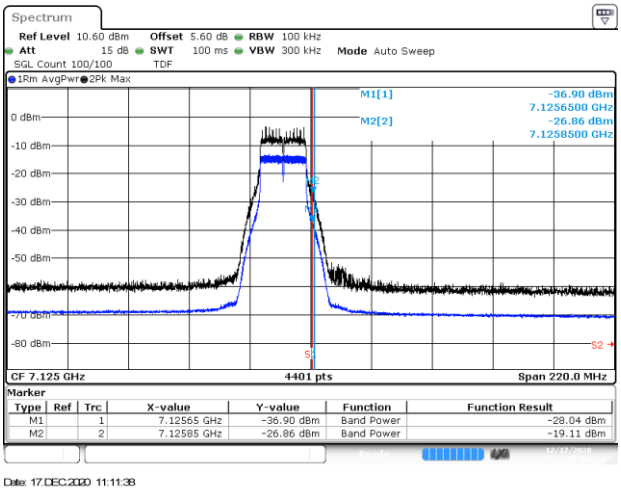
## C.1.5 Undesirable emission limits : out of band (Conducted)



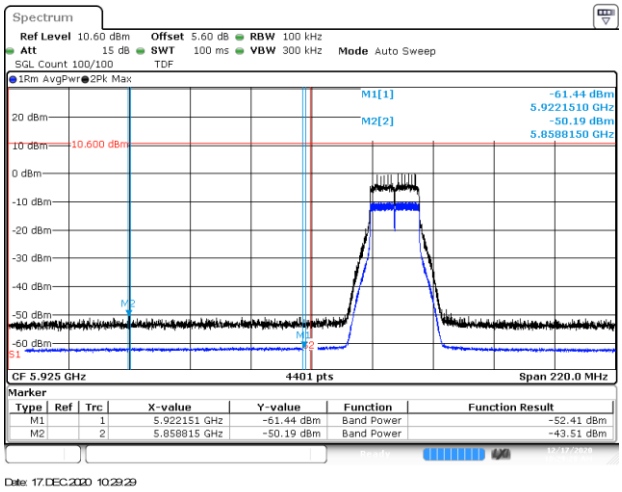

BE-NR-LOW, SISO-A, 802.11a-6Mbps, Ch1



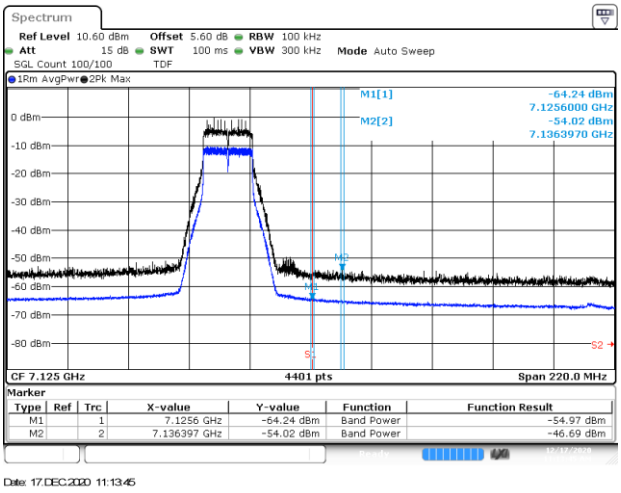

BE-NR-HIGH, SISO-A, 802.11a-6Mbps, Ch229



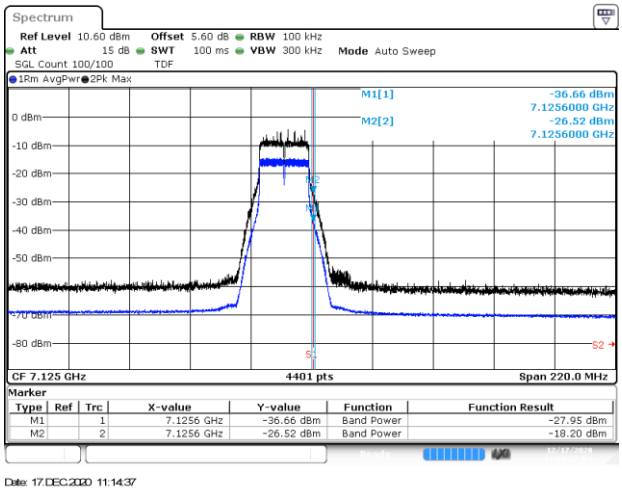

BE-NR-HIGH, SISO-A, 802.11a-6Mbps, Ch233



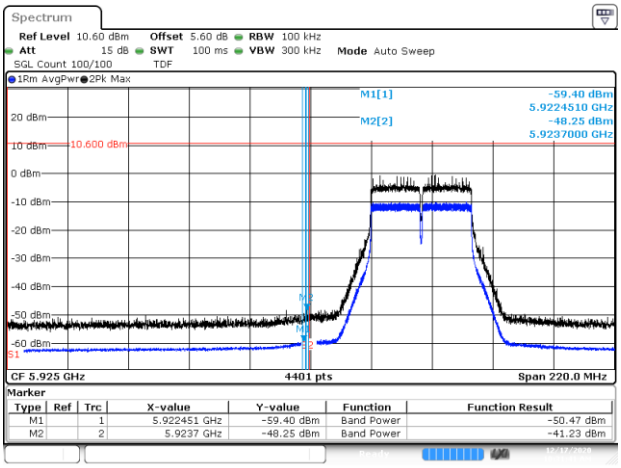

BE-NR-LOW, SISO-A, 802.11n20-HT0, Ch1




BE-NR-HIGH, SISO-A, 802.11n20-HT0, Ch229

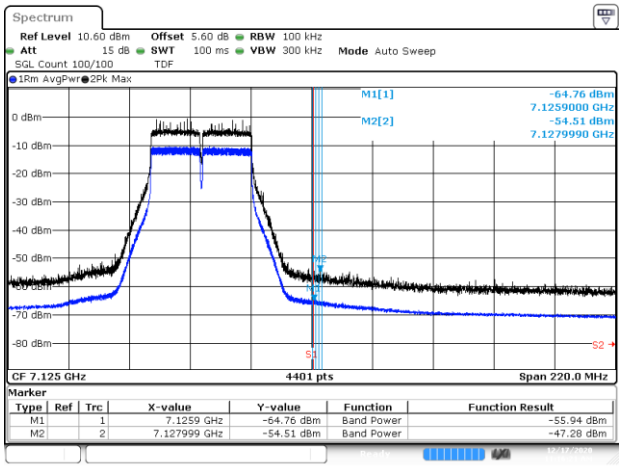



BE-NR-HIGH, SISO-A, 802.11n20-HT0, Ch233



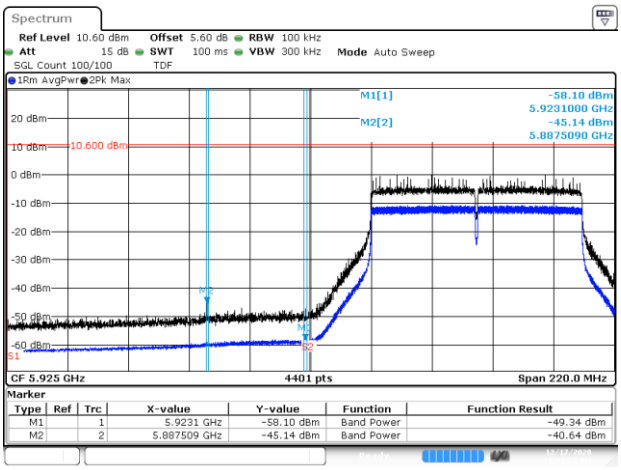

Date: 17.DEC.2020 10:31:42

BE-NR-LOW, SISO-A, 802.11n40-HT0, Ch3



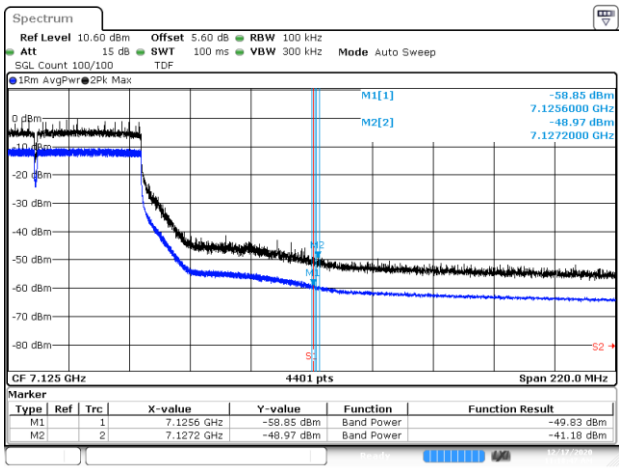

Date: 17.DEC.2020 11:16:21

BE-NR-HIGH, SISO-A, 802.11n40-HT0, Ch227



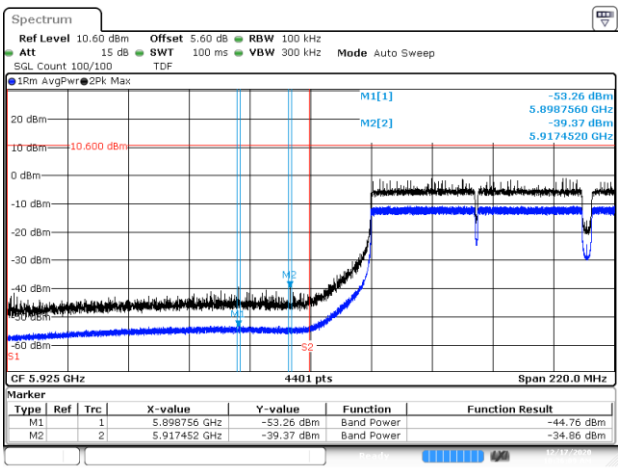

Date: 17.DEC.2020 10:33:55

BE-NR-LOW, SISO-A, 802.11ac80-VHT0, Ch7



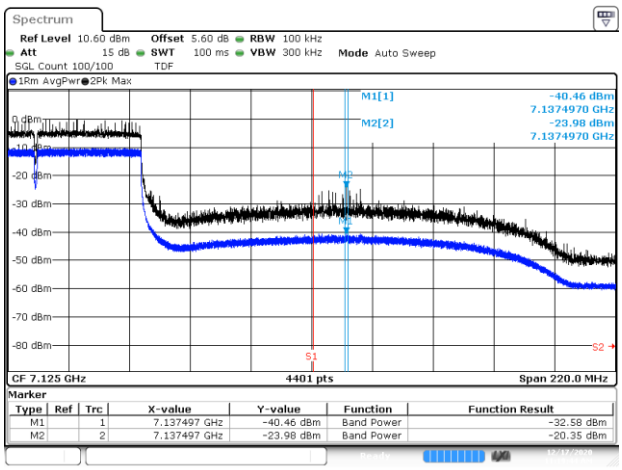

Date: 17.DEC.2020 11:18:48

BE-NR-HIGH, SISO-A, 802.11ac80-VHT0, Ch215



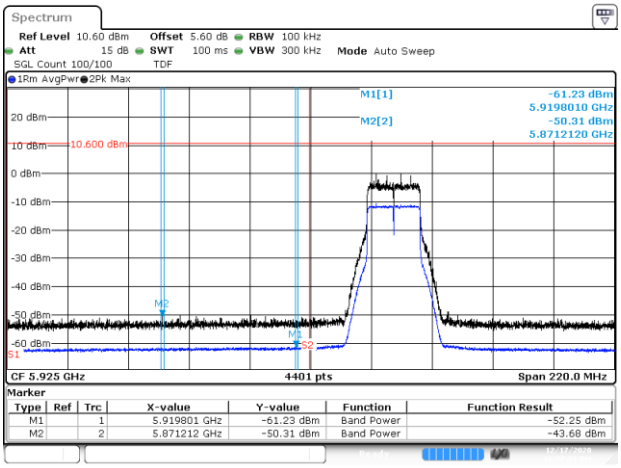

Date: 17.DEC.2020 10:38:09

BE-NR-LOW, SISO-A, 802.11ac160-VHT0, Ch15



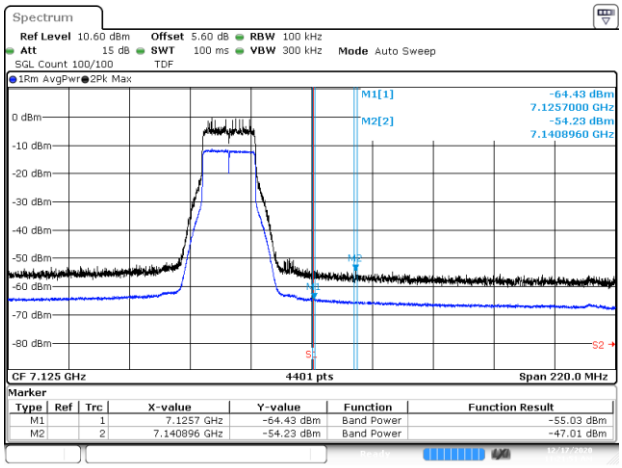

Date: 17.DEC.2020 11:19:44

BE-NR-HIGH, SISO-A, 802.11ac160-VHT0, Ch207



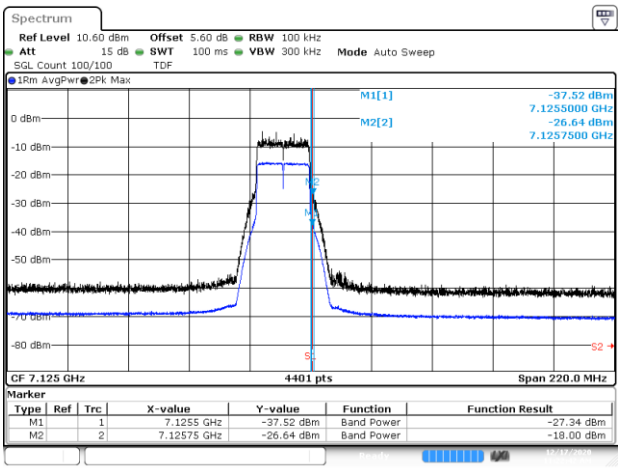

Date: 17.DEC.2020 10:37:33

BE-NR-LOW, SISO-A, 802.11ax20-HE0, Ch1



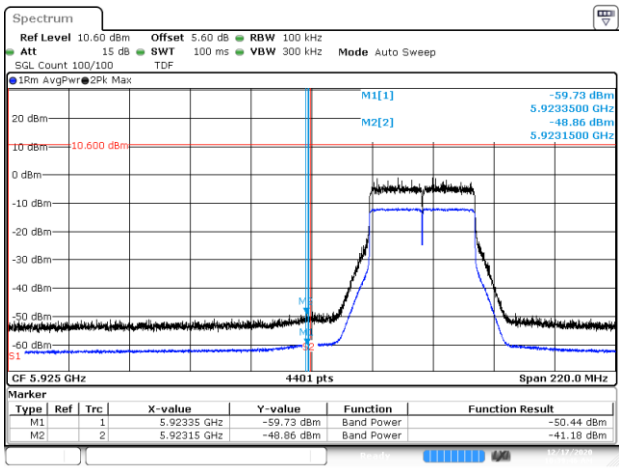

Date: 17.DEC.2020 11:21:51

BE-NR-HIGH, SISO-A, 802.11ax20-HE0, Ch229



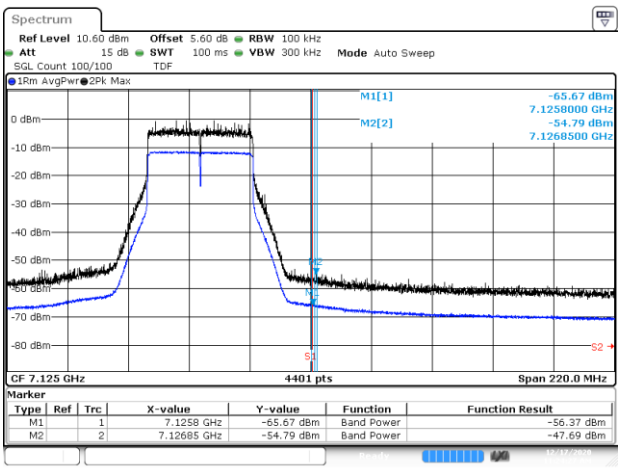

Date: 17.DEC.2020 11:22:42

BE-NR-HIGH, SISO-A, 802.11ax20-HE0, Ch233



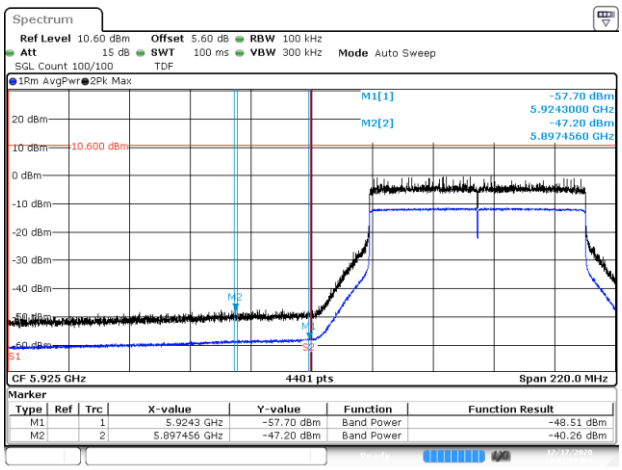

Date: 17.DEC.2020 10:39:46

BE-NR-LOW, SISO-A, 802.11ax40-HE0, Ch3



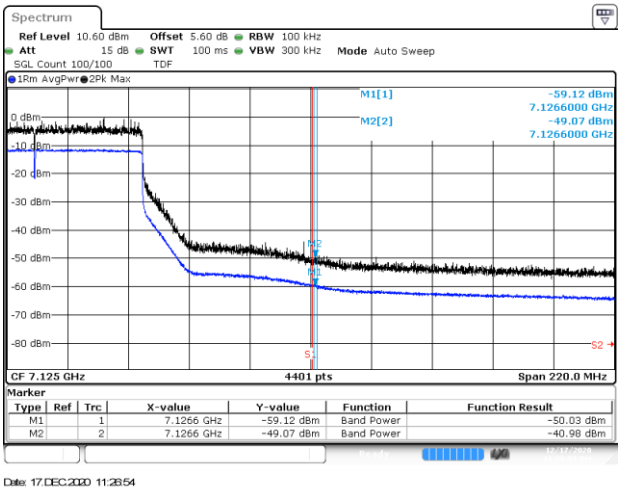

Date: 17.DEC.2020 11:24:27

BE-NR-HIGH, SISO-A, 802.11ax40-HE0, Ch227

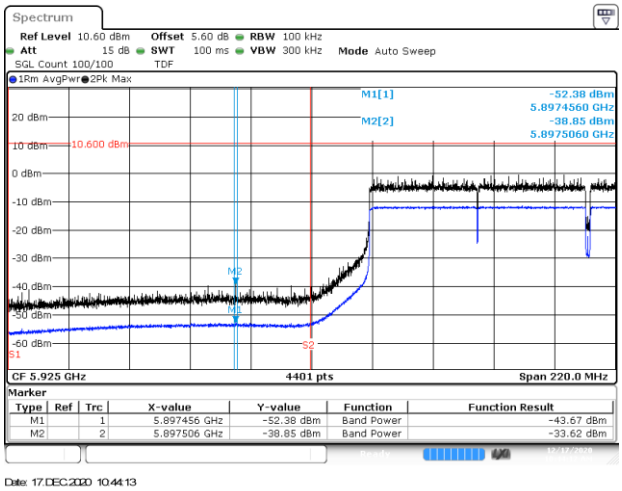



Date: 17.DEC.2020 10:41:59

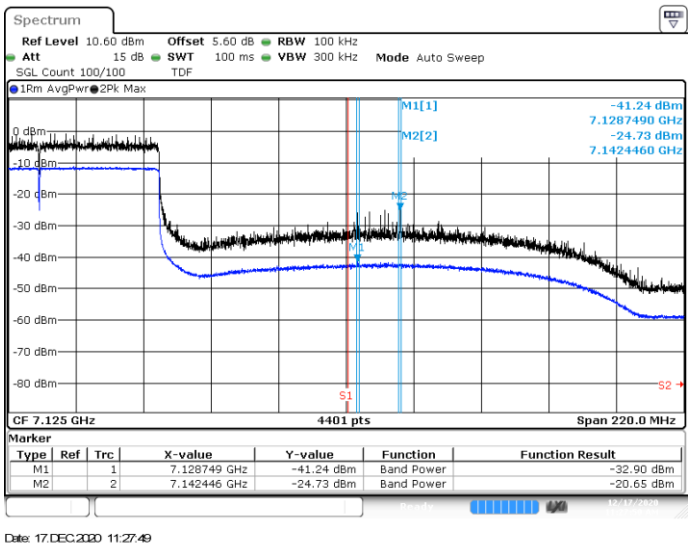
BE-NR-LOW, SISO-A, 802.11ac80-HE0, Ch7



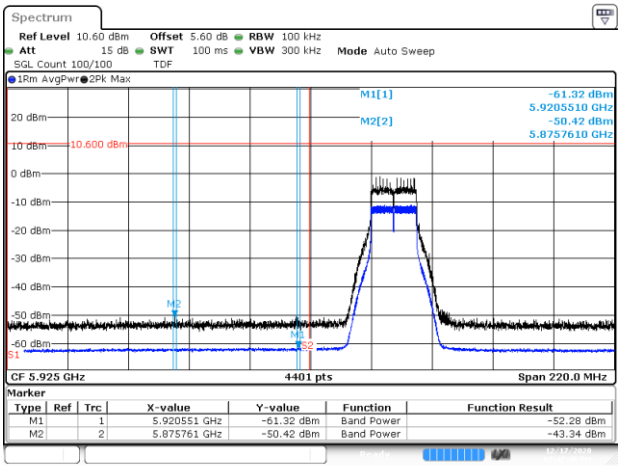

BE-NR-HIGH, SISO-A, 802.11ac80-HE0, Ch215



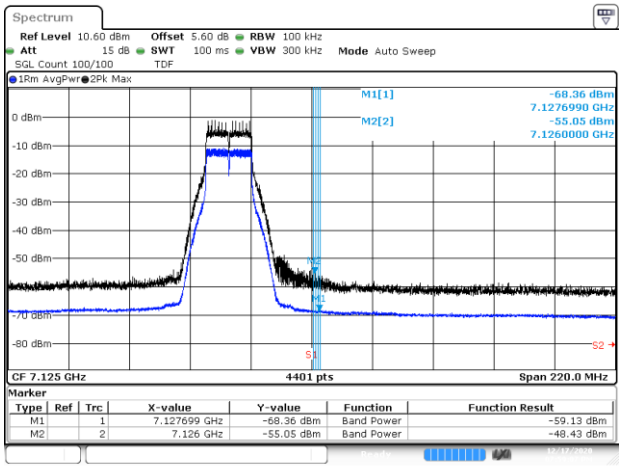

BE-NR-LOW, SISO-A, 802.11ac160-HE0, Ch15



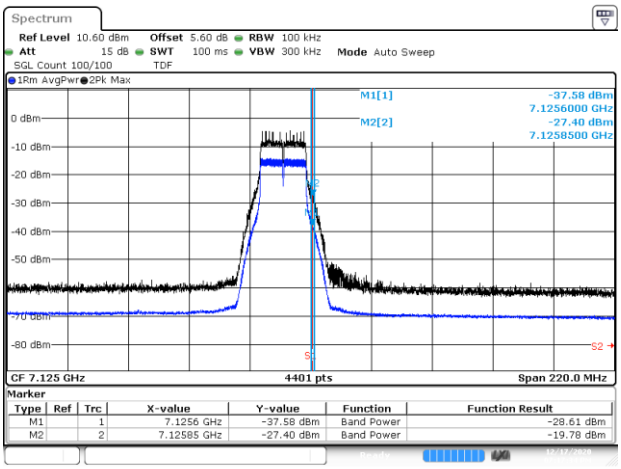

BE-NR-HIGH, SISO-A, 802.11ac160-HE0, Ch207



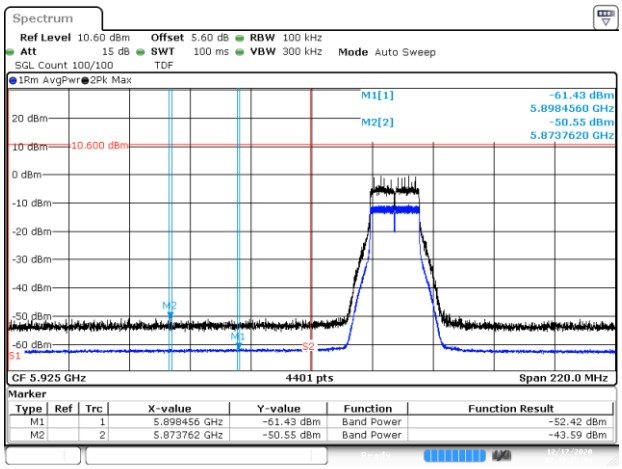

BE-NR-LOW, SISO-B, 802.11a-6Mbps, Ch1



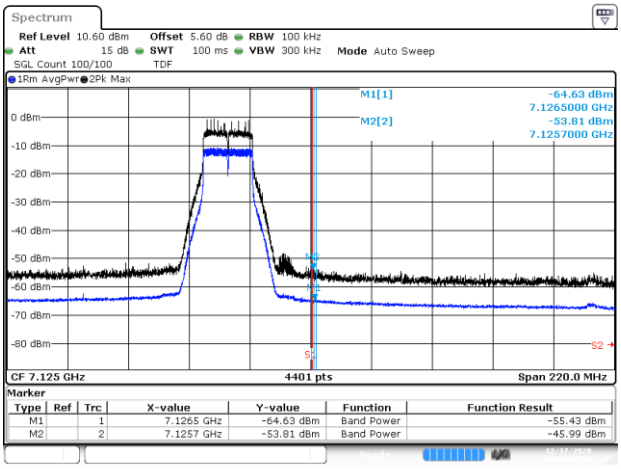

BE-NR-HIGH, SISO-B, 802.11a-6Mbps, Ch229



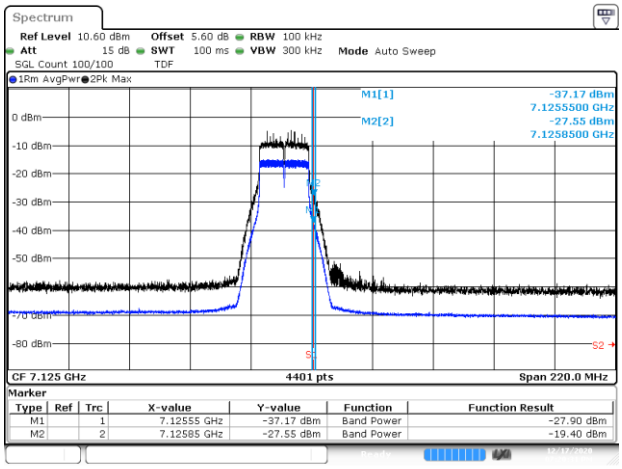

BE-NR-HIGH, SISO-B, 802.11a-6Mbps, Ch233




BE-NR-LOW, SISO-B, 802.11n20-HT0, Ch1




BE-NR-HIGH, SISO-B, 802.11n20-HT0, Ch229




BE-NR-HIGH, SISO-B, 802.11n20-HT0, Ch233