

A.5 POWER SPECTRAL DENSITY

| | | | |
|--|---|------------|--------------------|
| Test Date | 2021/12/27 ~ 2022/01/06 | Temp./Hum. | 14 ~ 17°C/61 ~ 70% |
| Cable Loss | 1.0dB | Tested By | Kuper Hsu |
| Test Voltage | AC 120V 60Hz (Via AC Adapter) | | |
| Simultaneous Factor 10 log(n) (Note: “n” is antenna number) | 802.11a: 0dB 802.11n-HT20/40: 3dB 802.11ac-VHT80/160: 3dB 802.11ax-HE20/40/80/160: 3dB | | |

A.5.1 Power Spectral Density Result

| Mode | U-NII Band | Centre Frequency (MHz) | Power Spectral Density (dBm) | Limit |
|---------|----------------------|------------------------|------------------------------|---------------|
| 802.11a | I | 5180 | 8.020 | 11 dBm/MHz |
| | | 5200 | 8.626 | |
| | | 5240 | 8.733 | |
| | 2A | 5260 | 8.686 | |
| | | 5300 | 8.548 | |
| | | 5320 | 7.865 | |
| | 2C | 5500 | 6.143 | |
| | | 5580 | 5.987 | |
| | | 5700 | 5.580 | |
| | | 5720 | 8.472 | |
| | III ^{Note2} | 5745 | 6.861 | 30dBm/500 kHz |
| | | 5785 | 7.142 | |
| 5825 | | 6.675 | | |

Note 1: All results have been included cable loss and Simultaneous Factor and correct duty factor.

Note 2: BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

| Mode | U-NII Band | Centre Frequency (MHz) | Power Spectral Density (dBm) | Limit | |
|----------------------|----------------------|------------------------|------------------------------|------------|---------------|
| 802.11n-HT20 | I | 5180 | 8.489 | 11 dBm/MHz | |
| | | 5200 | 9.364 | | |
| | | 5240 | 8.999 | | |
| | 2A | 5260 | 9.142 | | |
| | | 5300 | 9.070 | | |
| | | 5320 | 8.535 | | |
| | 2C | 5500 | 8.587 | | |
| | | 5580 | 8.311 | | |
| | | 5700 | 3.269 | | |
| | | 5720 | 7.424 | | |
| III ^{Note2} | 5745 | 9.540 | 30dBm/500 kHz | | |
| | 5785 | 9.625 | | | |
| | 5825 | 9.088 | | | |
| 802.11n-HT40 | I | 5190 | 3.963 | 11 dBm/MHz | |
| | | 5230 | 8.391 | | |
| | 2A | 5270 | 8.214 | | |
| | | 5310 | 3.103 | | |
| | 2C | 5510 | 3.778 | | |
| | | 5550 | 5.396 | | |
| | | 5670 | 4.517 | | |
| | | 5710 | 5.204 | | |
| | III ^{Note2} | 5755 | 6.683 | | 30dBm/500 kHz |
| | | 5795 | 6.697 | | |
| 802.11ac-VHT80 | I | 5210 | -0.246 | 11 dBm/MHz | |
| | 2A | 5290 | 0.186 | | |
| | | 5530 | 0.040 | | |
| | 2C | 5610 | 2.187 | | |
| | | 5690 | 5.039 | | |
| | III ^{Note2} | 5775 | 2.345 | | 30dBm/500 kHz |
| 802.11ac-VHT160 | I/2A | 5250 | -5.816 | 11 dBm/MHz | |
| | 2C | 5570 | -3.057 | | |

Note 1: All results have been included cable loss and Simultaneous Factor.

Note 2: BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

| Mode | U-NII Band | Centre Frequency (MHz) | Power Spectral Density (dBm) | Limit | |
|----------------------|----------------------|------------------------|------------------------------|------------|---------------|
| 802.11ax-HE20 | I | 5180 | 8.510 | 11 dBm/MHz | |
| | | 5200 | 9.377 | | |
| | | 5240 | 9.219 | | |
| | 2A | 5260 | 9.160 | | |
| | | 5300 | 8.827 | | |
| | | 5320 | 8.765 | | |
| | 2C | 5500 | 8.670 | | |
| | | 5580 | 8.213 | | |
| | | 5700 | 6.087 | | |
| | | 5720 | 10.880 | | |
| III ^{Note2} | 5745 | 8.460 | 30dBm/500 kHz | | |
| | 5785 | 8.472 | | | |
| | 5825 | 8.365 | | | |
| 802.11ax-HE40 | I | 5190 | 3.333 | 11 dBm/MHz | |
| | | 5230 | 7.897 | | |
| | 2A | 5270 | 7.778 | | |
| | | 5310 | 3.078 | | |
| | 2C | 5510 | 3.293 | | |
| | | 5550 | 5.085 | | |
| | | 5670 | 4.612 | | |
| | | 5710 | 5.272 | | |
| | III ^{Note2} | 5755 | 5.304 | | 30dBm/500 kHz |
| | | 5795 | 5.410 | | |
| 802.11ax-HE80 | I | 5210 | -0.287 | 11 dBm/MHz | |
| | 2A | 5290 | 0.306 | | |
| | | 5530 | 0.035 | | |
| | 2C | 5610 | 1.699 | | |
| | | 5690 | 4.740 | | |
| | III ^{Note2} | 5775 | 1.359 | | 30dBm/500 kHz |
| 802.11ax-HE160 | I/2A | 5250 | -6.589 | 11 dBm/MHz | |
| | 2C | 5570 | -3.472 | | |

Note 1: All results have been included cable loss and Simultaneous Factor.

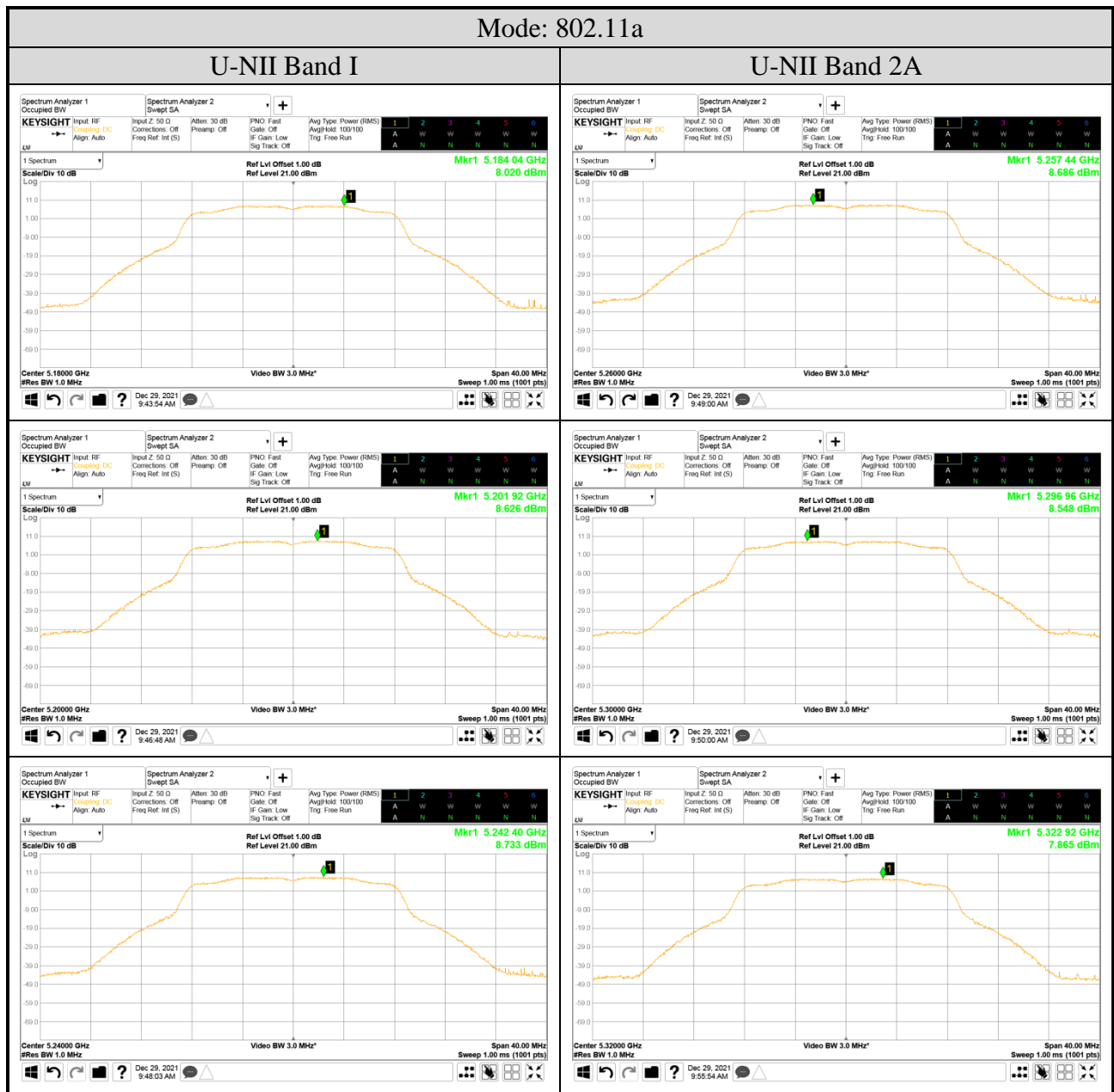
Note 2: BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

| Mode | U-NII Band | Centre Frequency (MHz) | RU Configuration | Power Spectral Density (dBm) | Limit |
|----------------------|----------------------|------------------------|------------------|------------------------------|---------------|
| 802.11ax-HE20 | I | 5180 | 26/0 | 8.701 | 11 dBm/MHz |
| | | | 52/37 | 9.116 | |
| | | | 106/53 | 8.881 | |
| | 2A | 5320 | 26/8 | 8.774 | |
| | | | 52/40 | 9.180 | |
| | | | 106/54 | 8.481 | |
| | 2C | 5500 | 26/0 | 8.721 | |
| | | | 52/37 | 9.099 | |
| | | | 106/53 | 8.333 | |
| | | 5700 | 26/8 | 8.466 | |
| | | | 52/40 | 8.932 | |
| | | | 106/54 | 9.035 | |
| III ^{Note2} | 5745 | 26/0 | 12.221 | 30dBm/500 kHz | |
| | | 52/37 | 6.584 | | |
| | | 106/53 | 8.366 | | |
| | 5825 | 26/8 | 11.888 | | |
| | | 52/40 | 6.337 | | |
| | | 106/54 | 7.575 | | |
| 802.11ax-HE40 | I | 5190 | 242/61 | 8.602 | 11 dBm/MHz |
| | 2A | 5310 | 242/62 | 6.726 | |
| | 2C | 5510 | 242/61 | 9.537 | |
| | | 5670 | 242/62 | 8.646 | |
| | III ^{Note2} | 5755 | 242/61 | 8.252 | 30dBm/500 kHz |
| | | 5795 | 242/62 | 8.612 | |
| 802.11ax-HE80 | I | 5210 | 484/65 | 3.525 | 11 dBm/MHz |
| | 2A | 5290 | 484/66 | -0.242 | |
| | 2C | 5530 | 484/65 | 2.500 | |
| | | 5610 | 484/66 | 7.169 | |
| | III ^{Note2} | 5775 | 484/65 | 4.720 | 30dBm/500 kHz |
| | | | 484/66 | 5.573 | |
| 802.11ax-HE160 | I/2A | 5250 | 996/67 | 0.227 | 11 dBm/MHz |
| | | | 996/S67 | -1.774 | |
| | 2C | 5570 | 996/67 | -0.081 | |
| | | | 996/S67 | 3.789 | |

Note 1: All results have been included cable loss and Simultaneous Factor.

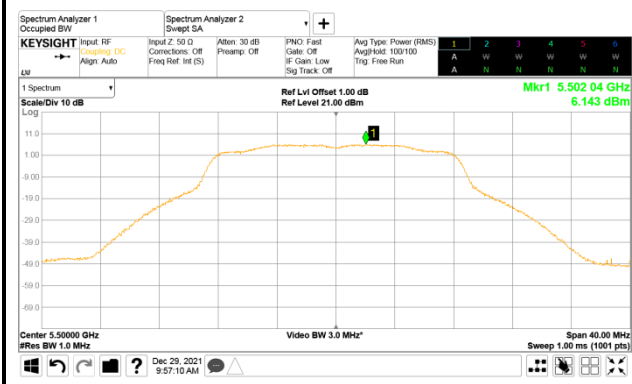
Note 2: BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

A.5.2 Measurement Plots

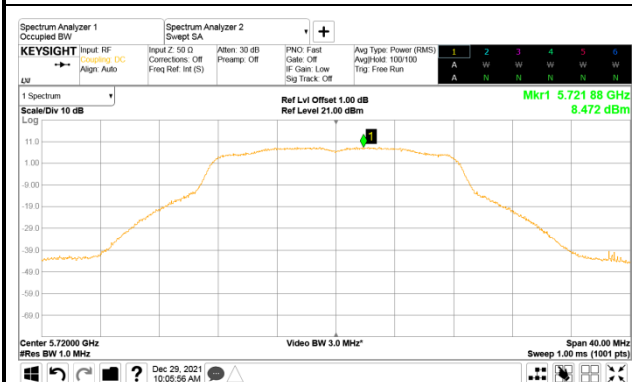
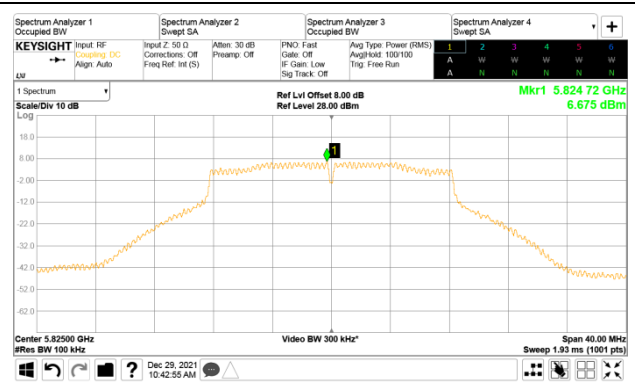
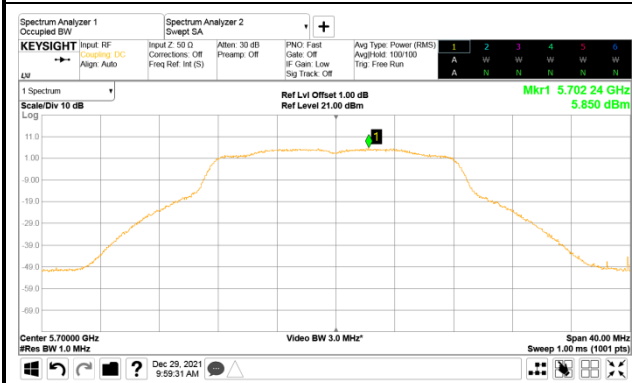
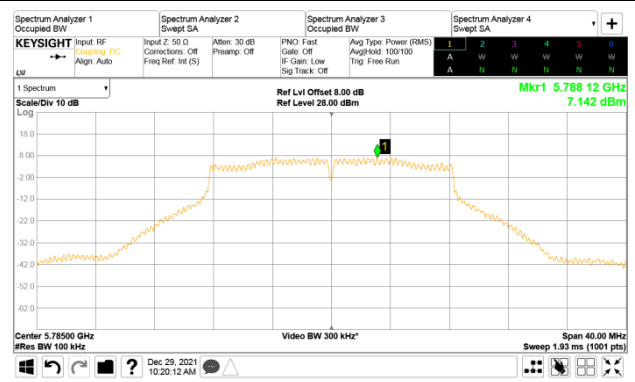
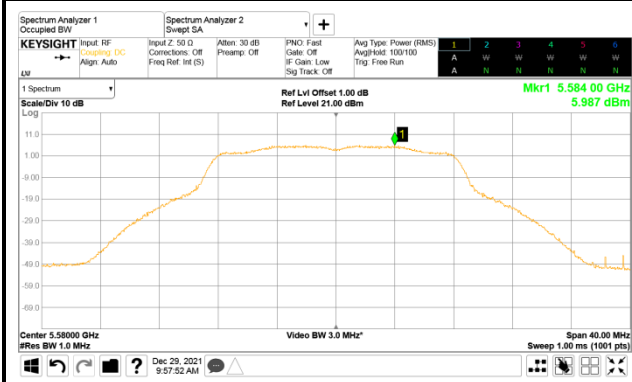
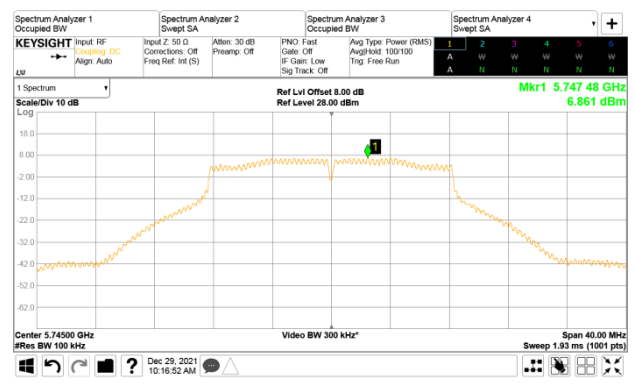


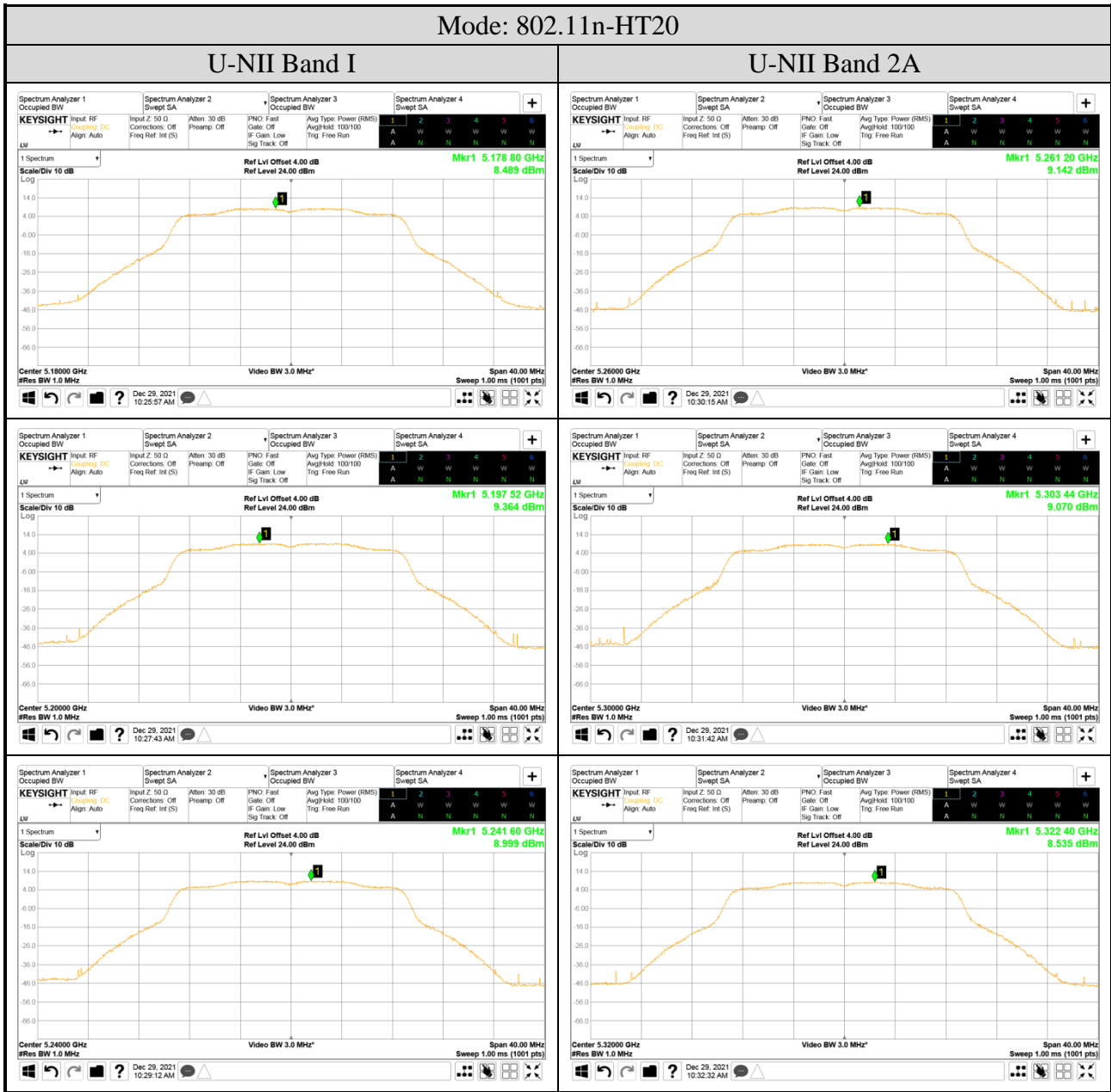
Mode: 802.11a

U-NII Band 2C

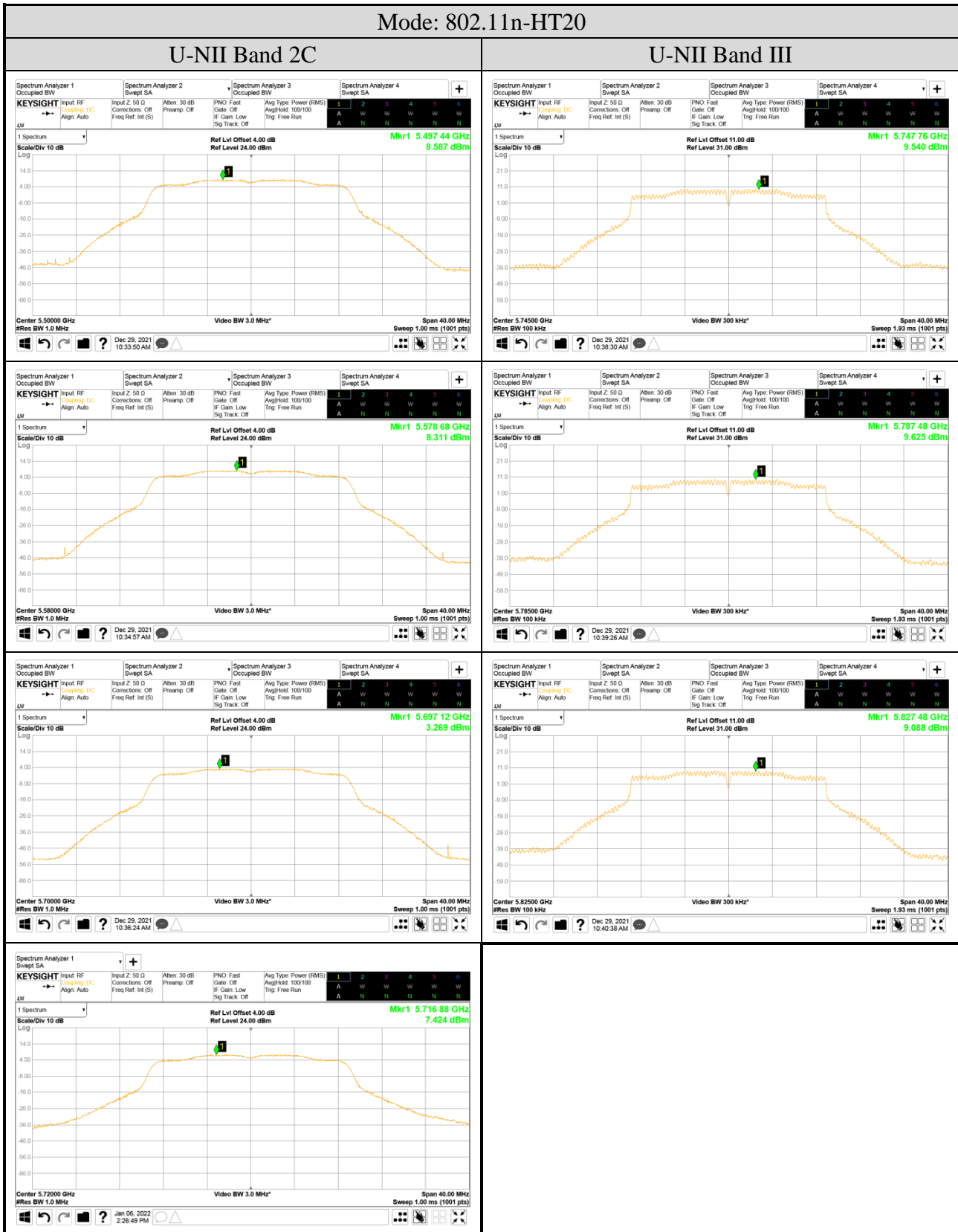


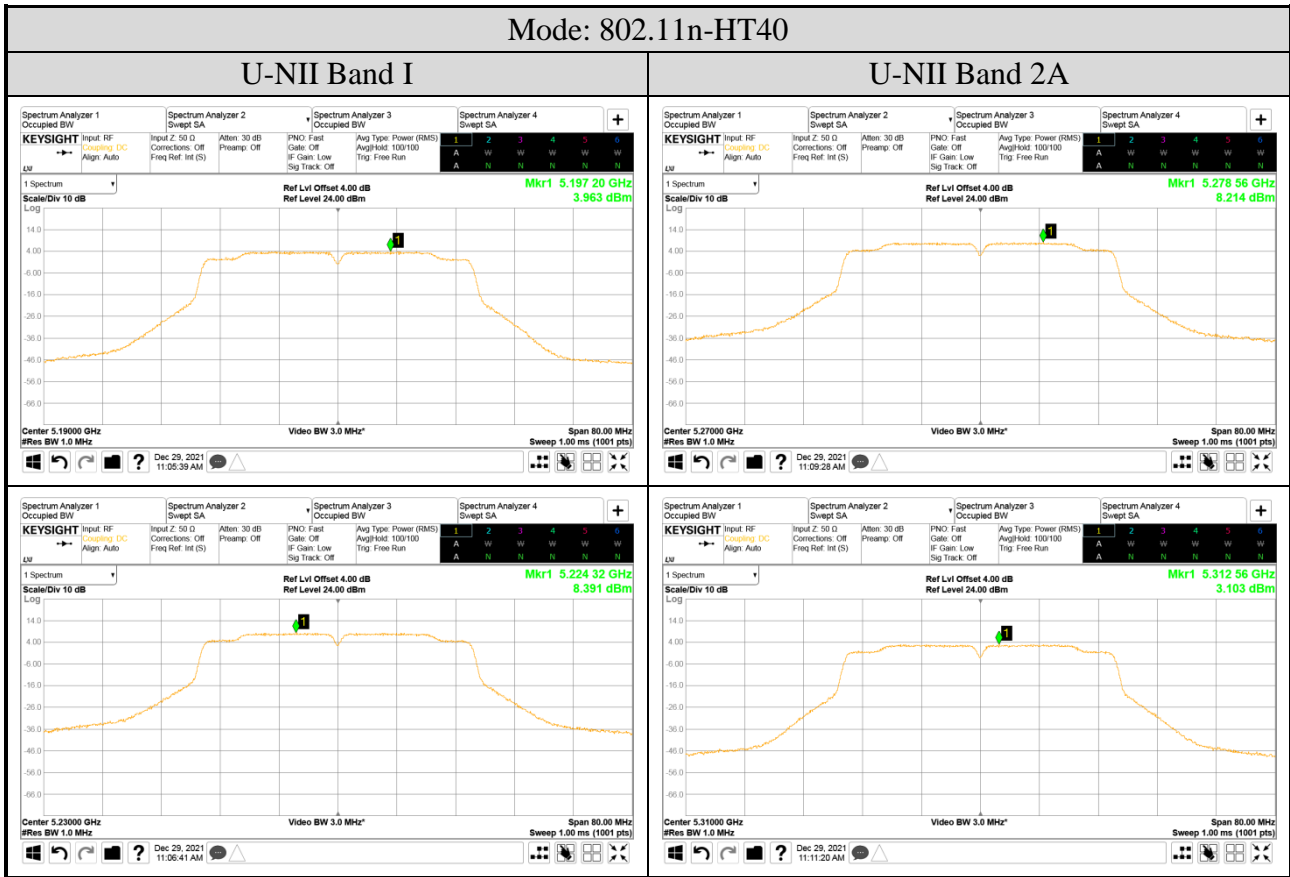
U-NII Band III

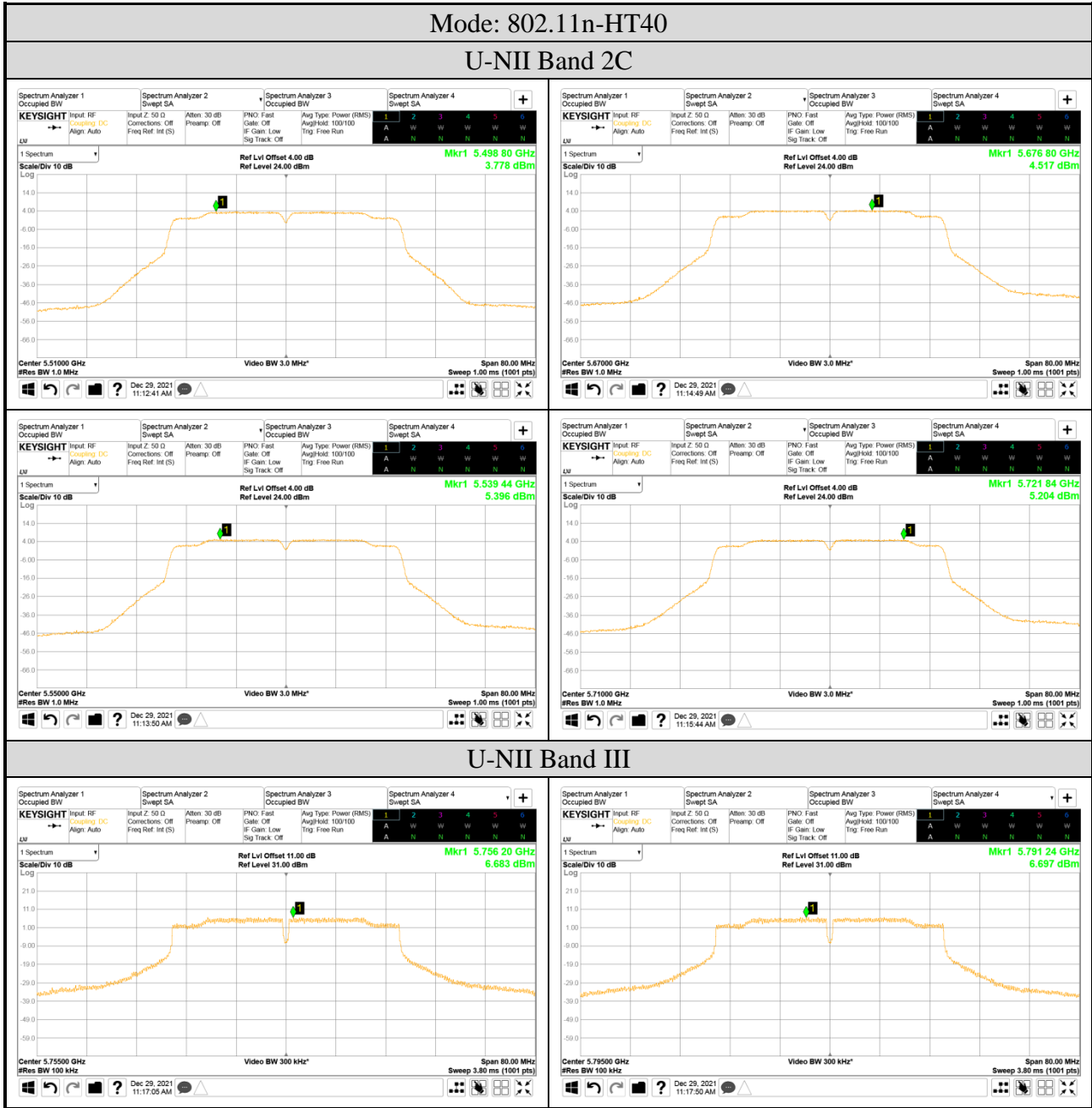


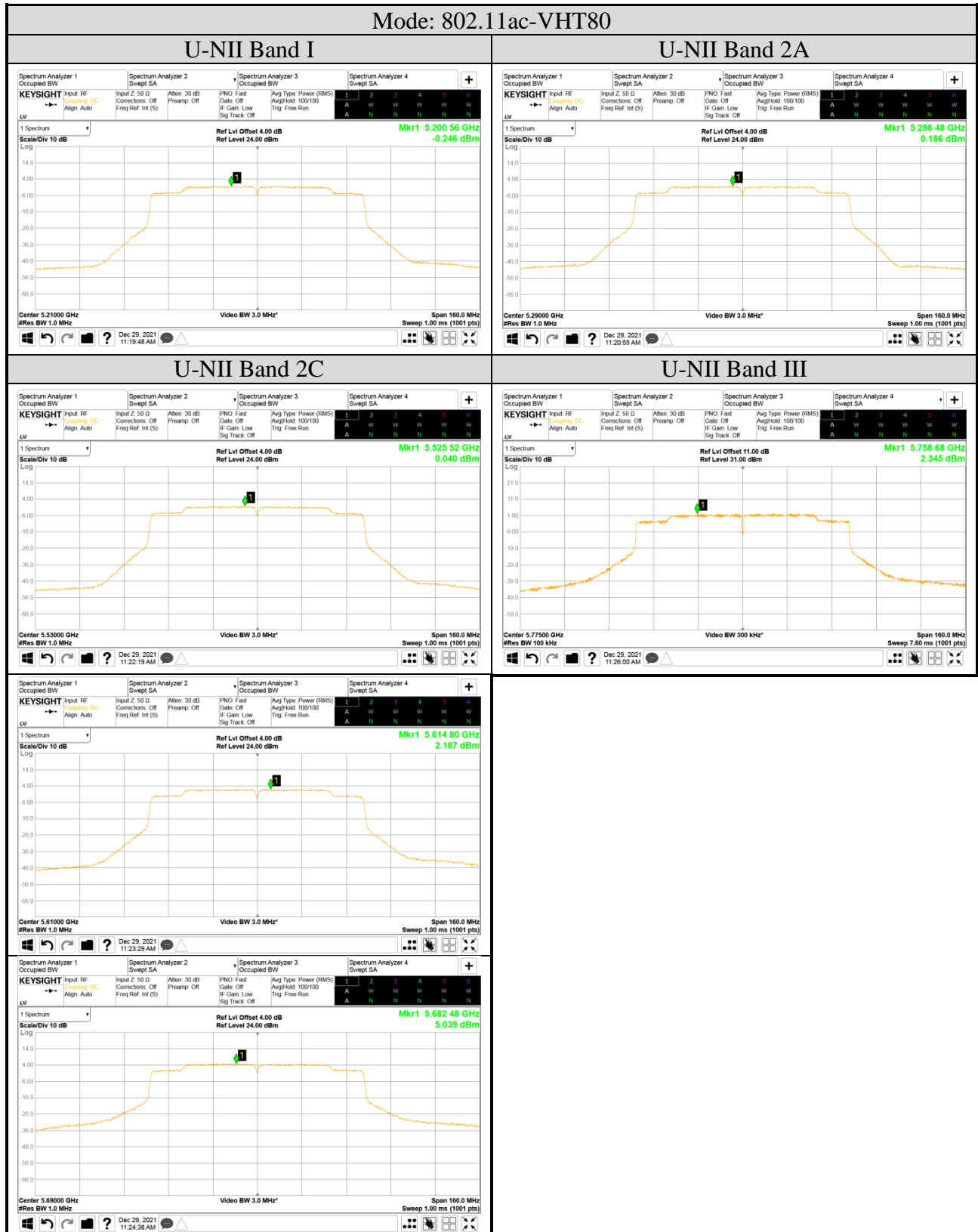


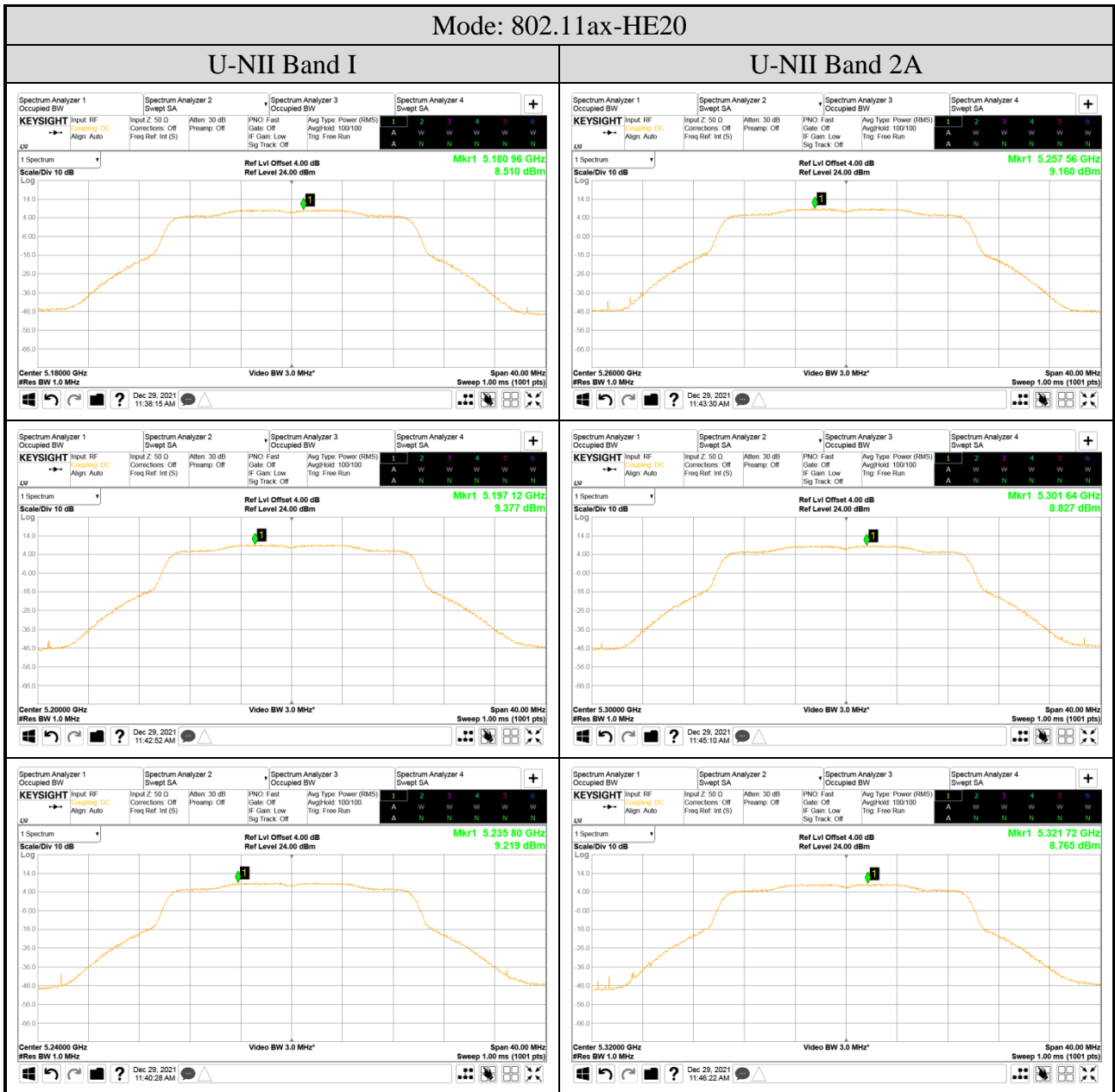
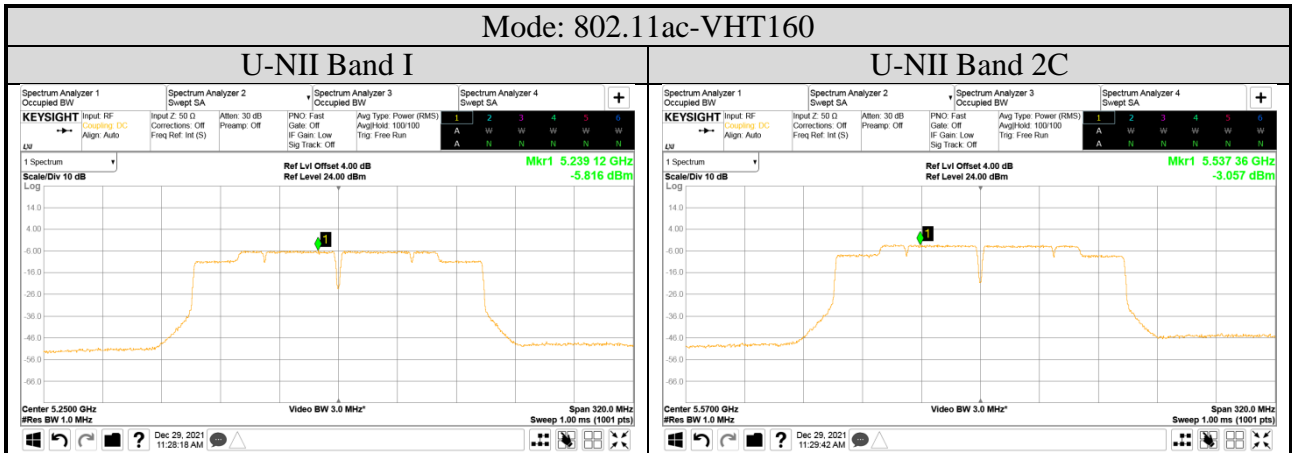
Mode: 802.11n-HT20

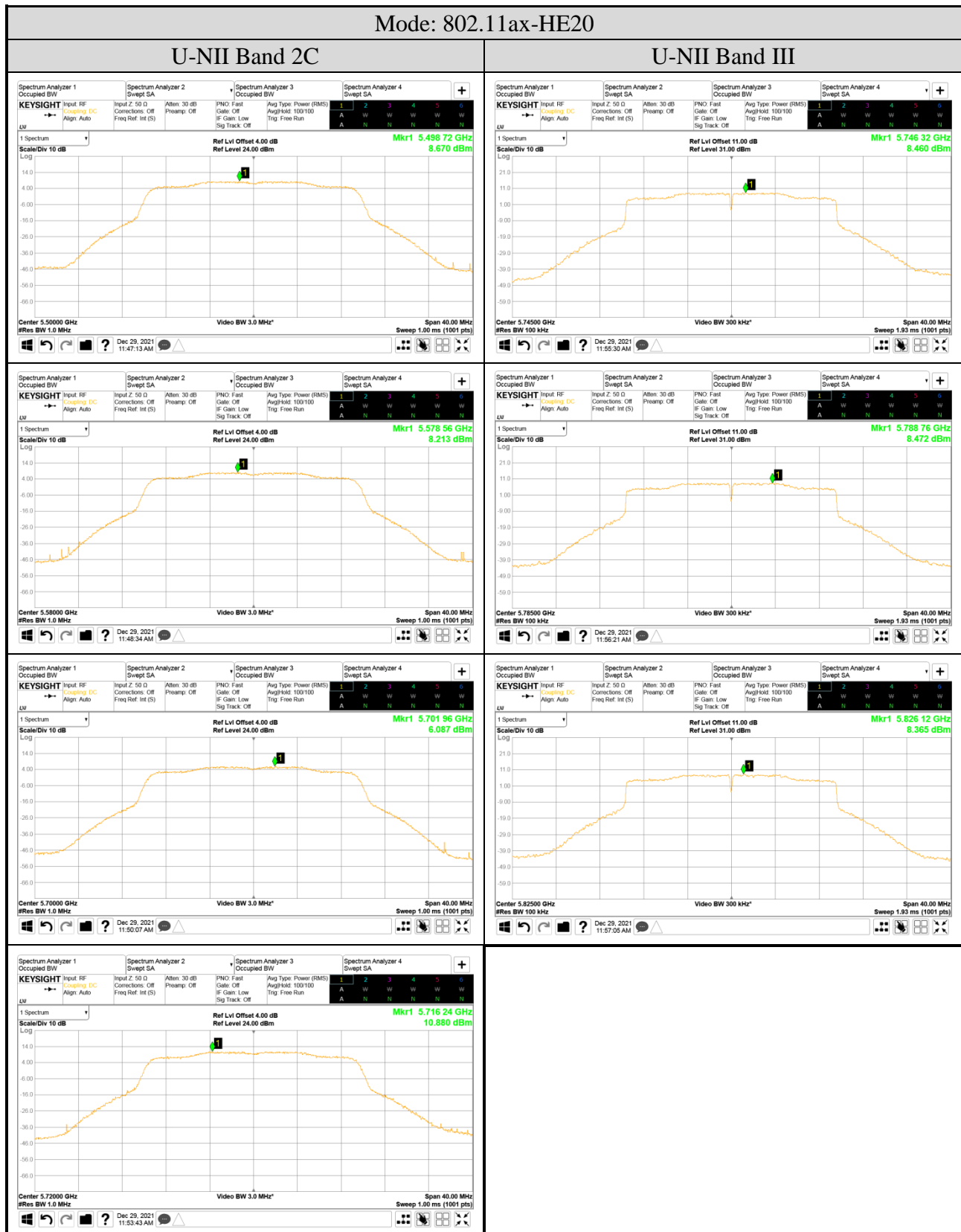


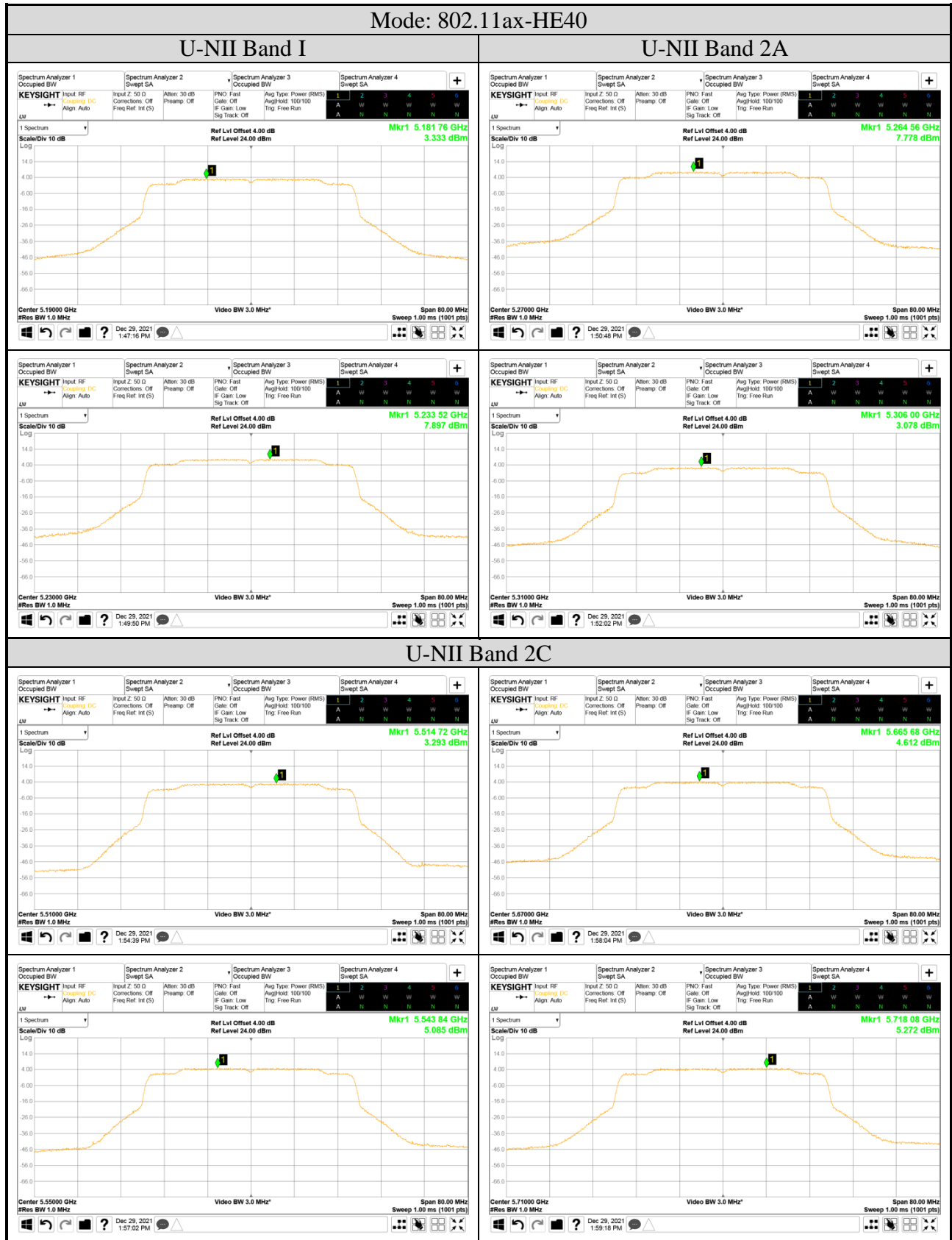












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