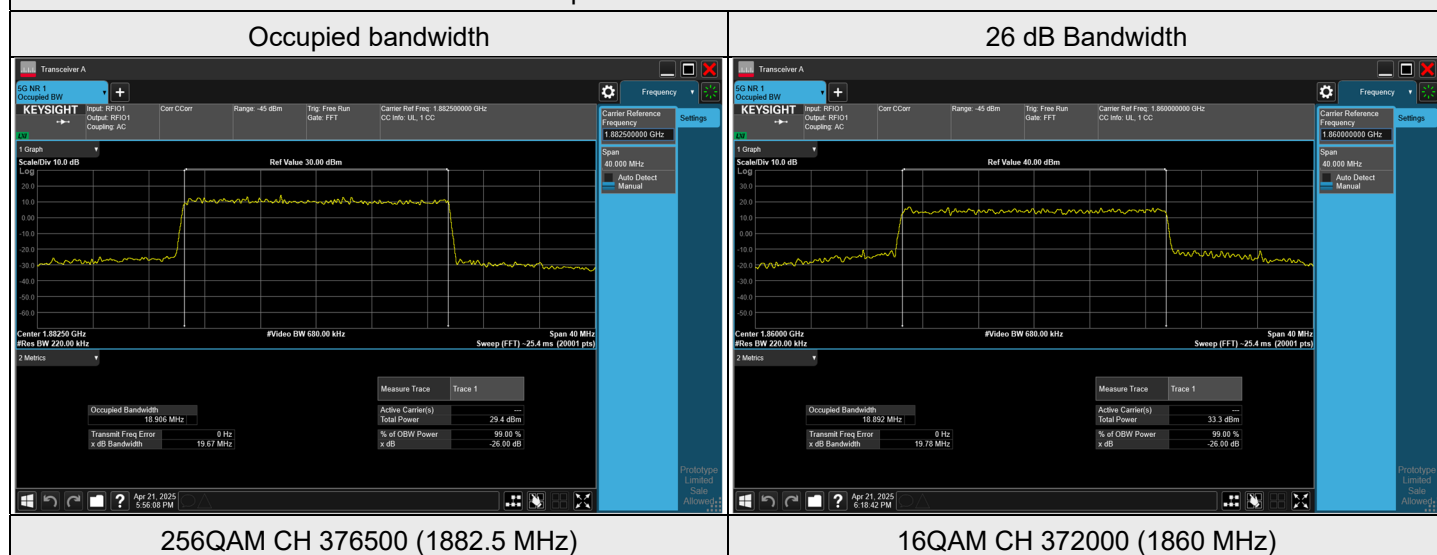


# NR n25 SCS 15 kHz, MIMO-Ant 1, Channel Bandwidth: 20 MHz

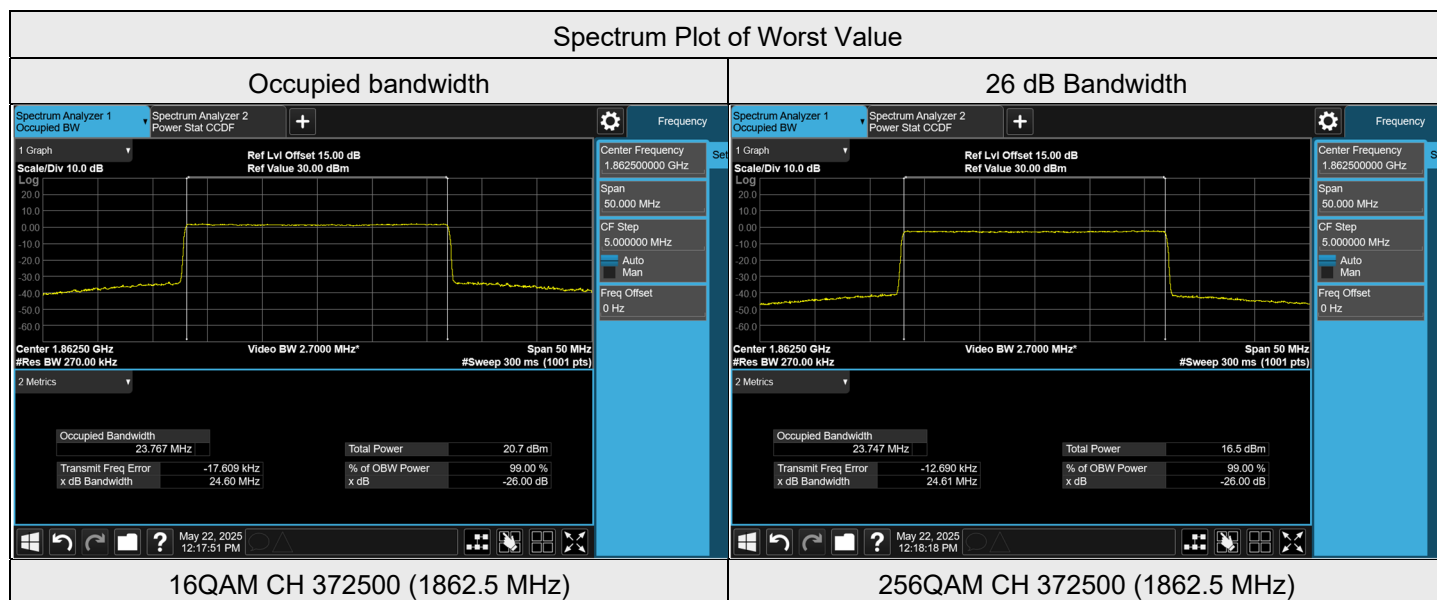
| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| QPSK       | 372000  | 1860            | 18.853                   | 19.74                 |
| QPSK       | 376500  | 1882.5          | 18.849                   | 19.72                 |
| QPSK       | 381000  | 1905            | 18.866                   | 19.72                 |
| 16QAM      | 372000  | 1860            | 18.892                   | 19.78                 |
| 16QAM      | 376500  | 1882.5          | 18.896                   | 19.74                 |
| 16QAM      | 381000  | 1905            | 18.876                   | 19.72                 |
| 64QAM      | 372000  | 1860            | 18.872                   | 19.71                 |
| 64QAM      | 376500  | 1882.5          | 18.898                   | 19.78                 |
| 64QAM      | 381000  | 1905            | 18.857                   | 19.72                 |
| 256QAM     | 372000  | 1860            | 18.869                   | 19.71                 |
| 256QAM     | 376500  | 1882.5          | 18.906                   | 19.67                 |
| 256QAM     | 381000  | 1905            | 18.864                   | 19.75                 |

## Spectrum Plot of Worst Value



# NR n25 SCS 15 kHz, MIMO-Ant 1, Channel Bandwidth: 25 MHz

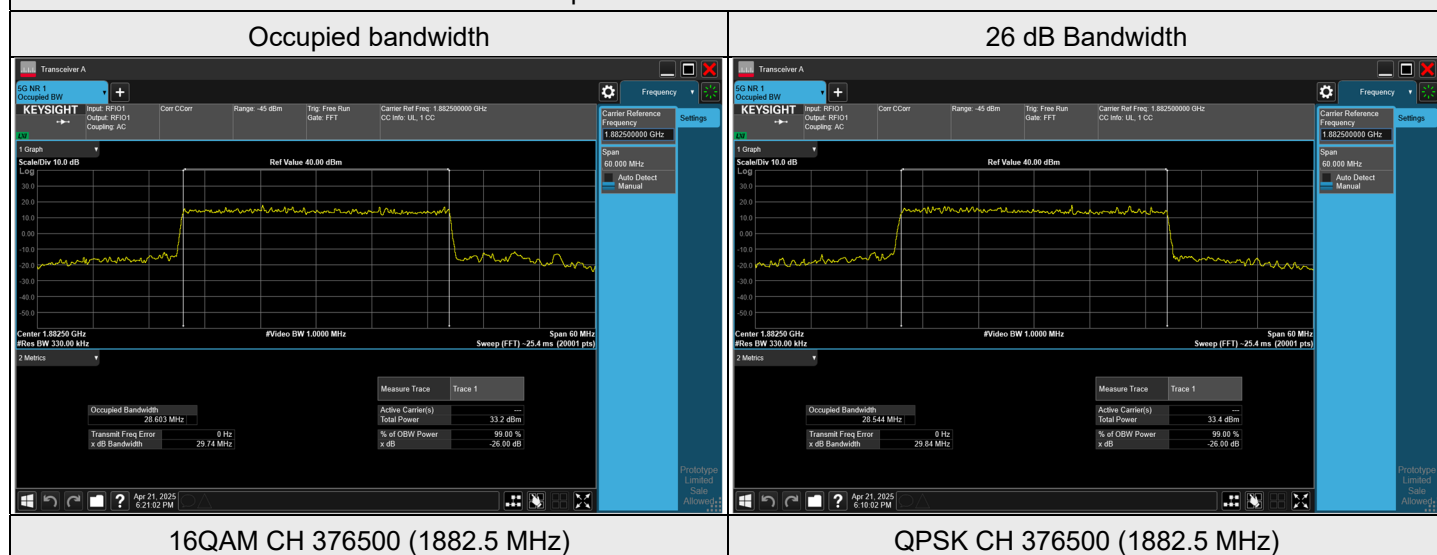
| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| QPSK       | 372500  | 1862.5          | 23.747                   | 24.60                 |
| QPSK       | 376500  | 1882.5          | 23.716                   | 24.60                 |
| QPSK       | 380500  | 1902.5          | 23.710                   | 24.59                 |
| 16QAM      | 372500  | 1862.5          | 23.767                   | 24.60                 |
| 16QAM      | 376500  | 1882.5          | 23.725                   | 24.60                 |
| 16QAM      | 380500  | 1902.5          | 23.731                   | 24.59                 |
| 64QAM      | 372500  | 1862.5          | 23.759                   | 24.60                 |
| 64QAM      | 376500  | 1882.5          | 23.719                   | 24.59                 |
| 64QAM      | 380500  | 1902.5          | 23.721                   | 24.58                 |
| 256QAM     | 372500  | 1862.5          | 23.747                   | 24.61                 |
| 256QAM     | 376500  | 1882.5          | 23.725                   | 24.59                 |
| 256QAM     | 380500  | 1902.5          | 23.705                   | 24.58                 |



# NR n25 SCS 15 kHz, MIMO-Ant 1, Channel Bandwidth: 30 MHz

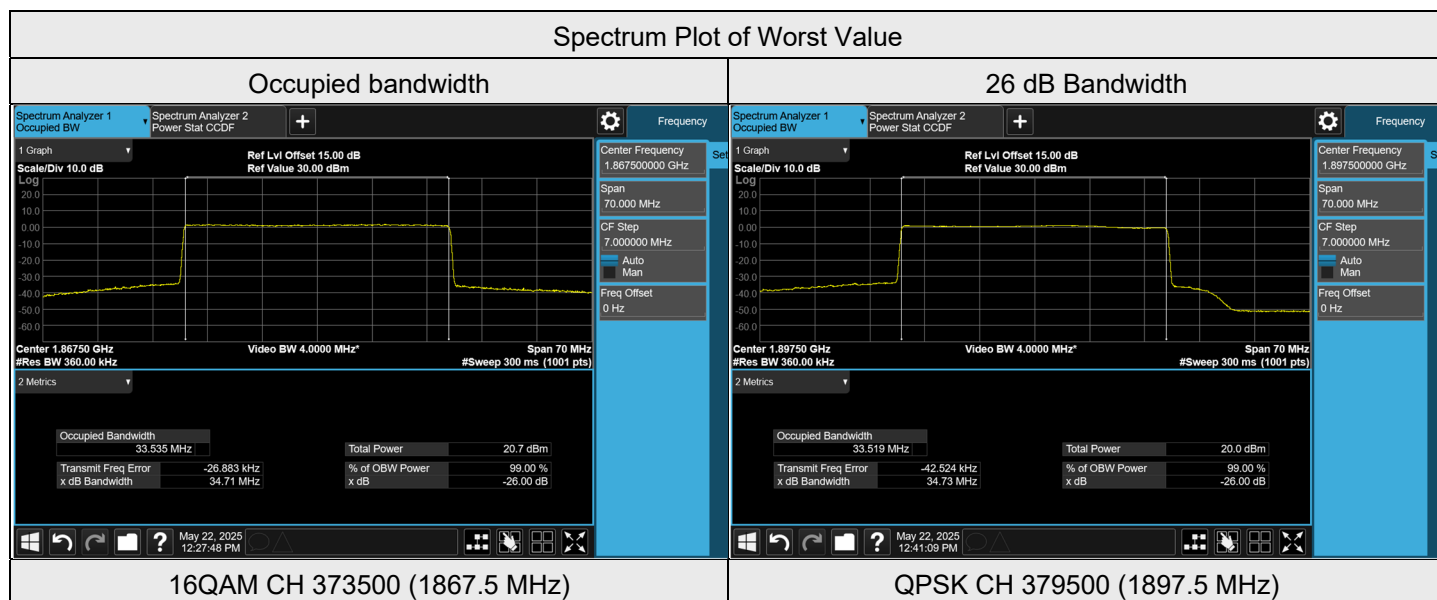
| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| QPSK       | 373000  | 1865            | 28.518                   | 29.64                 |
| QPSK       | 376500  | 1882.5          | 28.544                   | 29.84                 |
| QPSK       | 380000  | 1900            | 28.526                   | 29.70                 |
| 16QAM      | 373000  | 1865            | 28.567                   | 29.79                 |
| 16QAM      | 376500  | 1882.5          | 28.603                   | 29.74                 |
| 16QAM      | 380000  | 1900            | 28.556                   | 29.59                 |
| 64QAM      | 373000  | 1865            | 28.484                   | 29.56                 |
| 64QAM      | 376500  | 1882.5          | 28.489                   | 29.69                 |
| 64QAM      | 380000  | 1900            | 28.457                   | 29.64                 |
| 256QAM     | 373000  | 1865            | 28.495                   | 29.71                 |
| 256QAM     | 376500  | 1882.5          | 28.520                   | 29.66                 |
| 256QAM     | 380000  | 1900            | 28.521                   | 29.78                 |

## Spectrum Plot of Worst Value



# NR n25 SCS 15 kHz, MIMO-Ant 1, Channel Bandwidth: 35 MHz

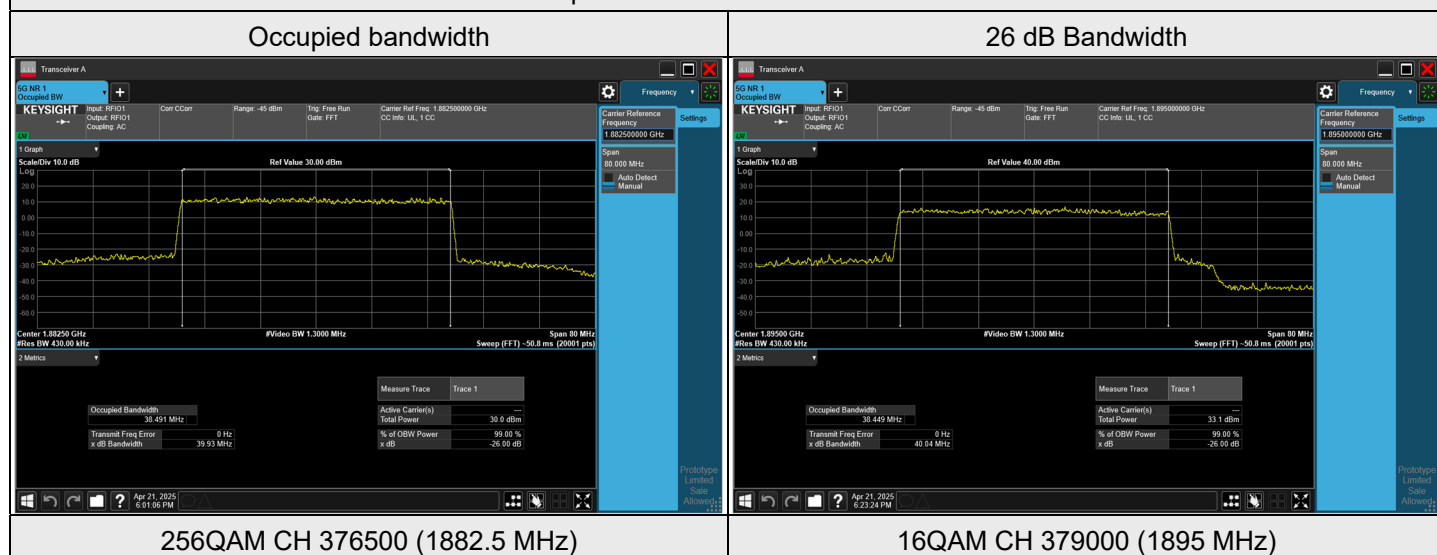
| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| QPSK       | 373500  | 1867.5          | 33.515                   | 34.70                 |
| QPSK       | 376500  | 1882.5          | 33.521                   | 34.71                 |
| QPSK       | 379500  | 1897.5          | 33.519                   | 34.73                 |
| 16QAM      | 373500  | 1867.5          | 33.535                   | 34.71                 |
| 16QAM      | 376500  | 1882.5          | 33.508                   | 34.70                 |
| 16QAM      | 379500  | 1897.5          | 33.515                   | 34.70                 |
| 64QAM      | 373500  | 1867.5          | 33.520                   | 34.70                 |
| 64QAM      | 376500  | 1882.5          | 33.509                   | 34.70                 |
| 64QAM      | 379500  | 1897.5          | 33.521                   | 34.71                 |
| 256QAM     | 373500  | 1867.5          | 33.509                   | 34.70                 |
| 256QAM     | 376500  | 1882.5          | 33.518                   | 34.70                 |
| 256QAM     | 379500  | 1897.5          | 33.515                   | 34.69                 |



# NR n25 SCS 15 kHz, MIMO-Ant 1, Channel Bandwidth: 40 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| QPSK       | 374000  | 1870            | 38.426                   | 39.85                 |
| QPSK       | 376500  | 1882.5          | 38.476                   | 39.94                 |
| QPSK       | 379000  | 1895            | 38.489                   | 39.84                 |
| 16QAM      | 374000  | 1870            | 38.376                   | 39.93                 |
| 16QAM      | 376500  | 1882.5          | 38.433                   | 39.94                 |
| 16QAM      | 379000  | 1895            | 38.449                   | 40.04                 |
| 64QAM      | 374000  | 1870            | 38.433                   | 39.81                 |
| 64QAM      | 376500  | 1882.5          | 38.456                   | 39.85                 |
| 64QAM      | 379000  | 1895            | 38.435                   | 39.72                 |
| 256QAM     | 374000  | 1870            | 38.412                   | 39.87                 |
| 256QAM     | 376500  | 1882.5          | 38.491                   | 39.93                 |
| 256QAM     | 379000  | 1895            | 38.451                   | 39.87                 |

## Spectrum Plot of Worst Value

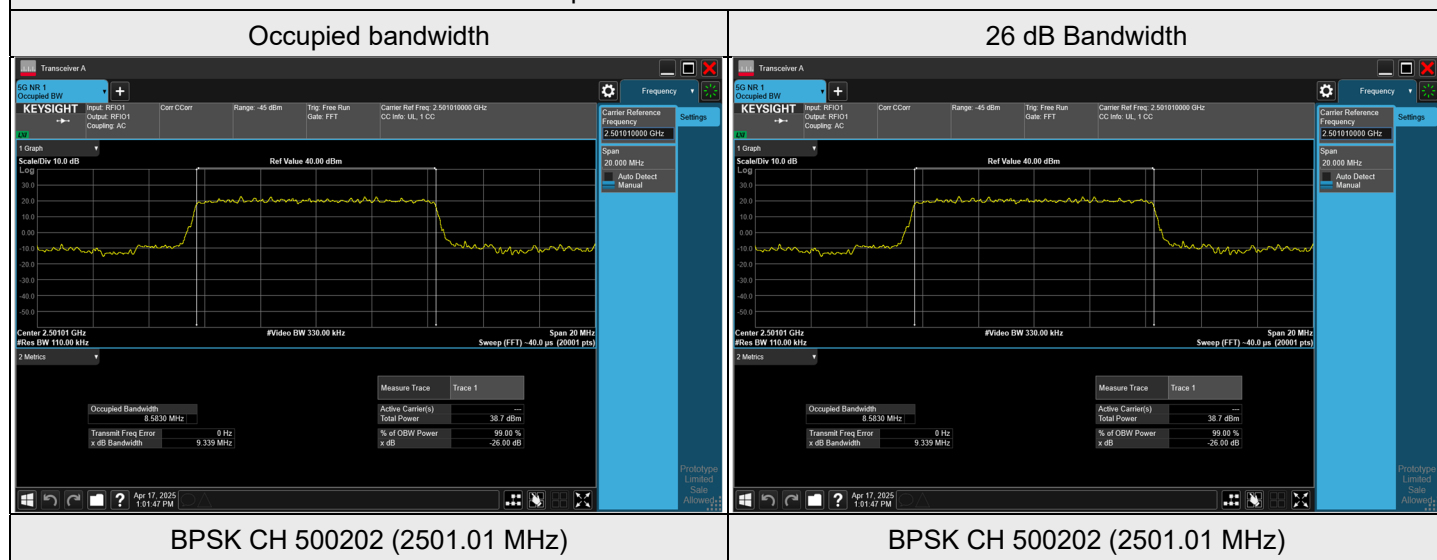


## 7.4.2 NR n41 SCS 30 kHz

### NR n41 SCS 30 kHz, Ant 2\_PC2, Channel Bandwidth: 10 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 500202  | 2501.01         | 8.5830                   | 9.339                 |
| BPSK       | 518598  | 2592.99         | 8.5640                   | 9.186                 |
| BPSK       | 537000  | 2685            | 8.5603                   | 9.282                 |

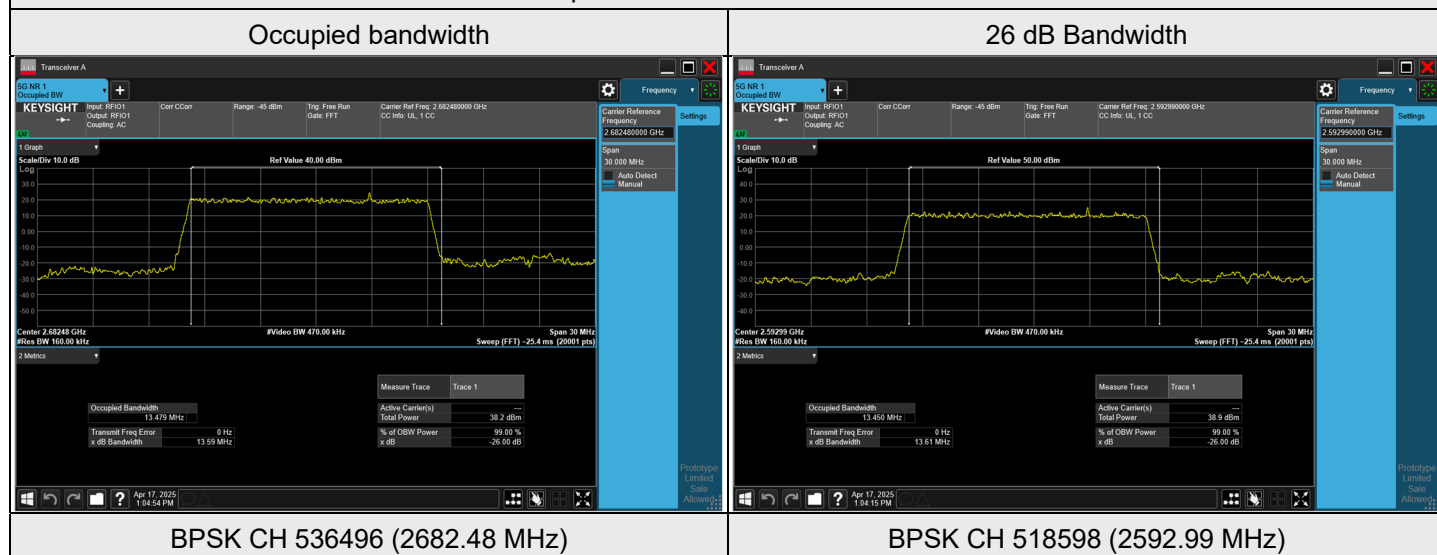
### Spectrum Plot of Worst Value



# NR n41 SCS 30 kHz, Ant 2\_PC2, Channel Bandwidth: 15 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 500700  | 2503.5          | 13.456                   | 13.49                 |
| BPSK       | 518598  | 2592.99         | 13.450                   | 13.61                 |
| BPSK       | 536496  | 2682.48         | 13.479                   | 13.59                 |

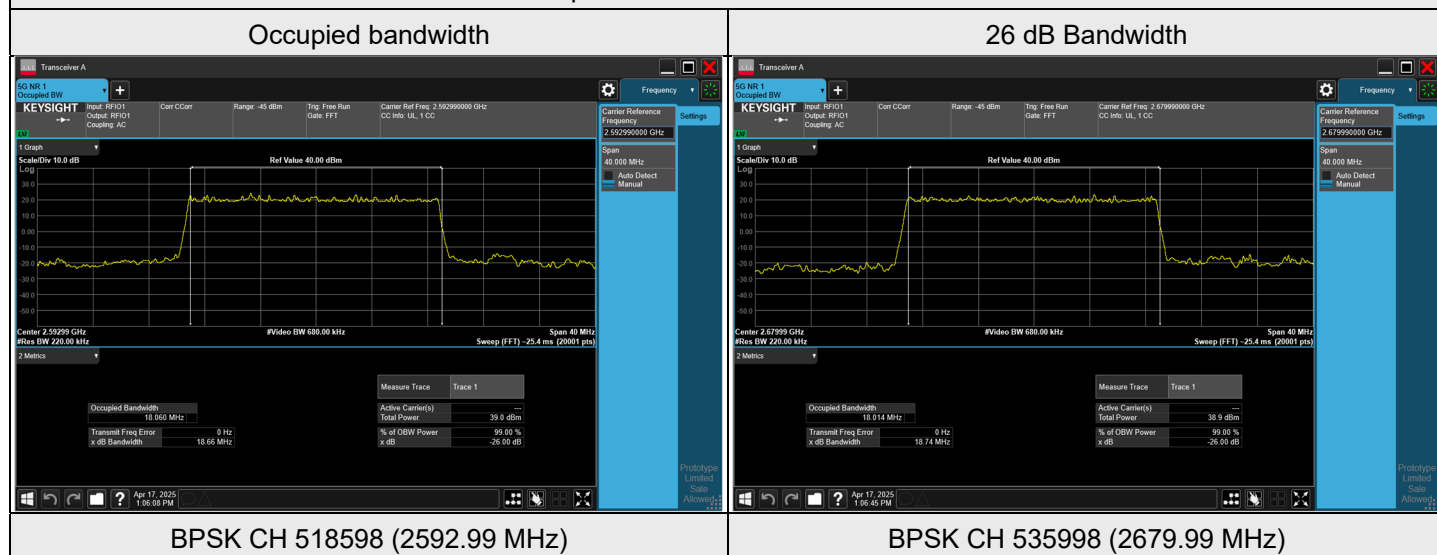
## Spectrum Plot of Worst Value



# NR n41 SCS 30 kHz, Ant 2\_PC2, Channel Bandwidth: 20 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 501204  | 2506.02         | 18.046                   | 18.68                 |
| BPSK       | 518598  | 2592.99         | 18.060                   | 18.66                 |
| BPSK       | 535998  | 2679.99         | 18.014                   | 18.74                 |

## Spectrum Plot of Worst Value

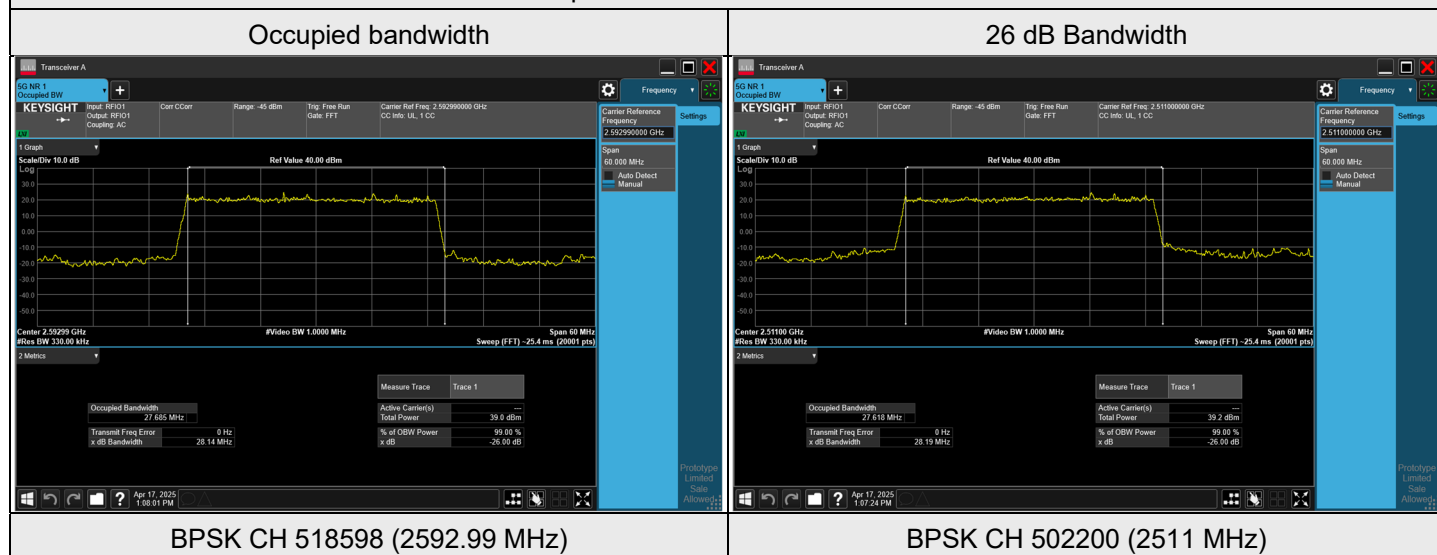




# NR n41 SCS 30 kHz, Ant 2\_PC2, Channel Bandwidth: 30 MHz

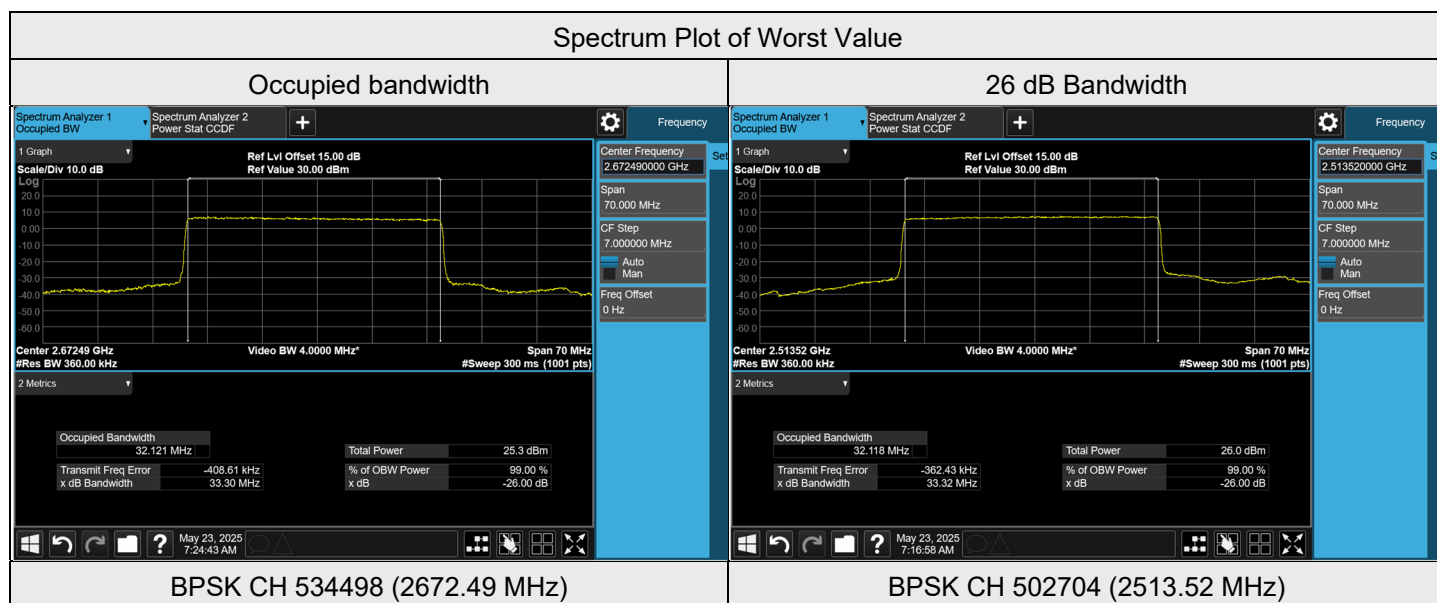
| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 502200  | 2511            | 27.618                   | 28.19                 |
| BPSK       | 518598  | 2592.99         | 27.685                   | 28.14                 |
| BPSK       | 534996  | 2674.98         | 27.680                   | 28.14                 |

## Spectrum Plot of Worst Value



NR n41 SCS 30 kHz, Ant 2\_PC2, Channel Bandwidth: 35 MHz

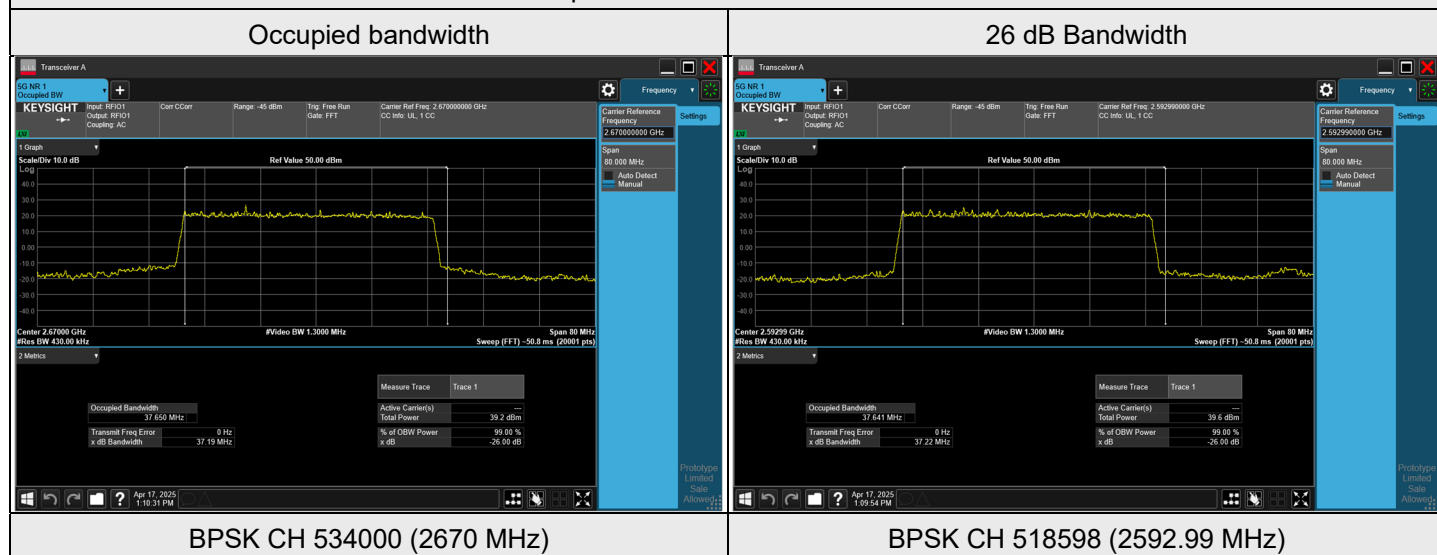
| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 502704  | 2513.52         | 32.118                   | 33.32                 |
| BPSK       | 518598  | 2592.99         | 32.112                   | 33.30                 |
| BPSK       | 534498  | 2672.49         | 32.121                   | 33.30                 |



# NR n41 SCS 30 kHz, Ant 2\_PC2, Channel Bandwidth: 40 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 503202  | 2516.01         | 37.555                   | 37.06                 |
| BPSK       | 518598  | 2592.99         | 37.641                   | 37.22                 |
| BPSK       | 534000  | 2670            | 37.650                   | 37.19                 |

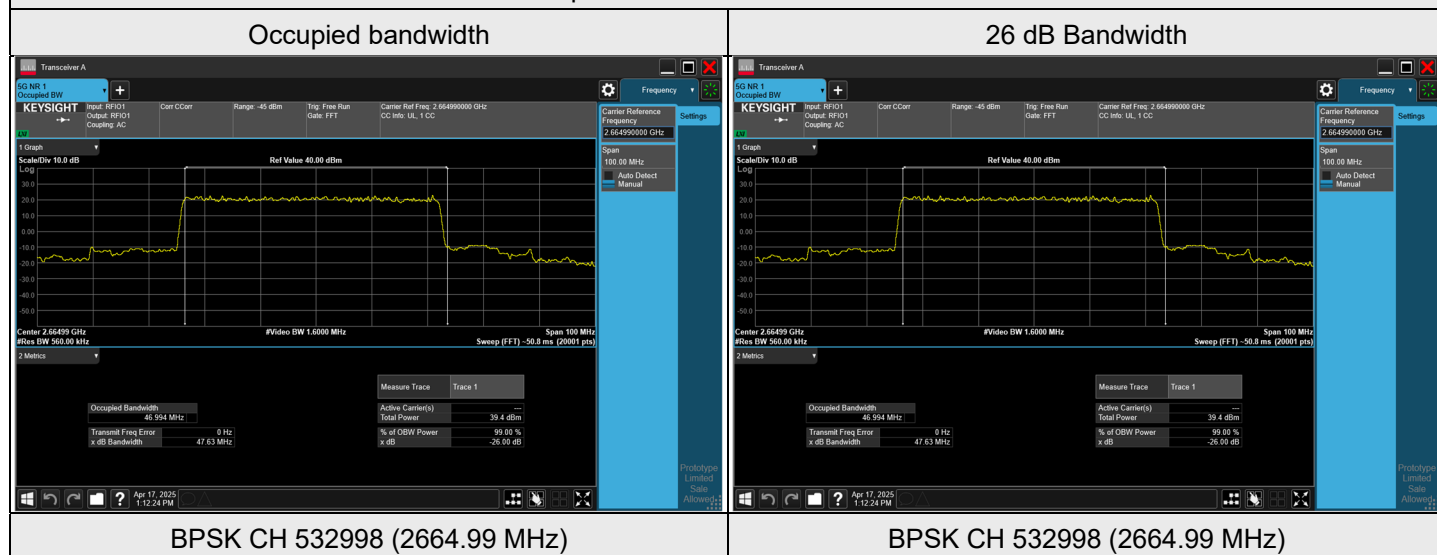
## Spectrum Plot of Worst Value



NR n41 SCS 30 kHz, Ant 2\_PC2, Channel Bandwidth: 50 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 504204  | 2521.02         | 46.822                   | 47.43                 |
| BPSK       | 518598  | 2592.99         | 46.992                   | 47.58                 |
| BPSK       | 532998  | 2664.99         | 46.994                   | 47.63                 |

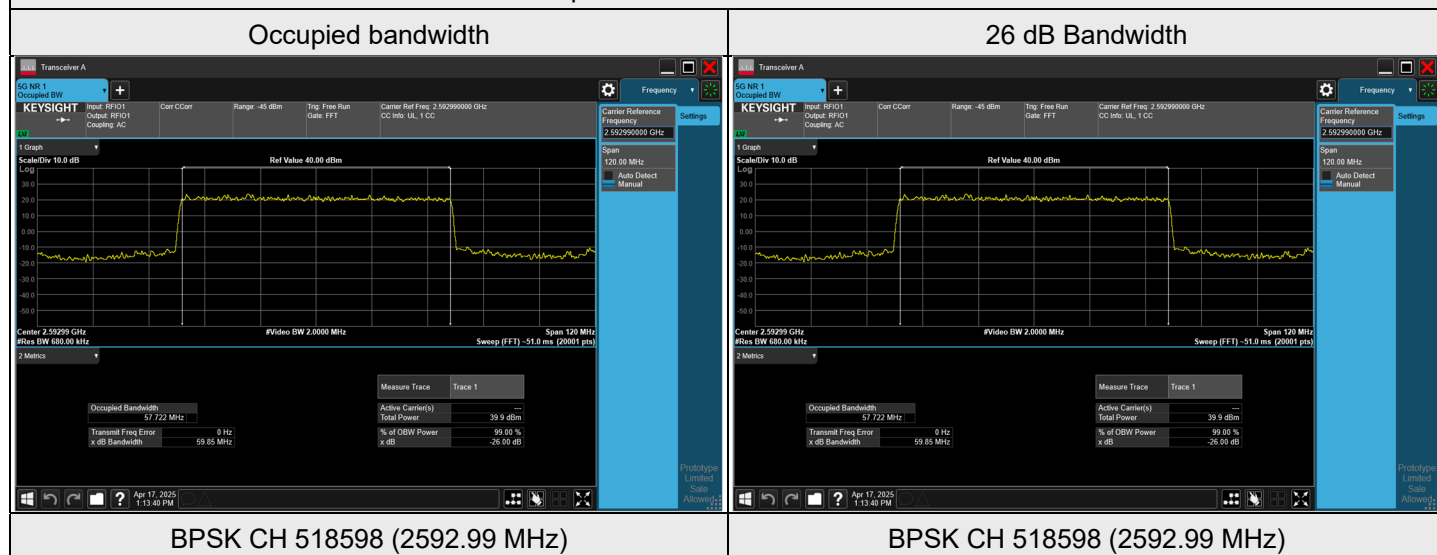
Spectrum Plot of Worst Value



# NR n41 SCS 30 kHz, Ant 2\_PC2, Channel Bandwidth: 60 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 505200  | 2526            | 57.603                   | 59.72                 |
| BPSK       | 518598  | 2592.99         | 57.722                   | 59.85                 |
| BPSK       | 531996  | 2659.98         | 57.701                   | 59.71                 |

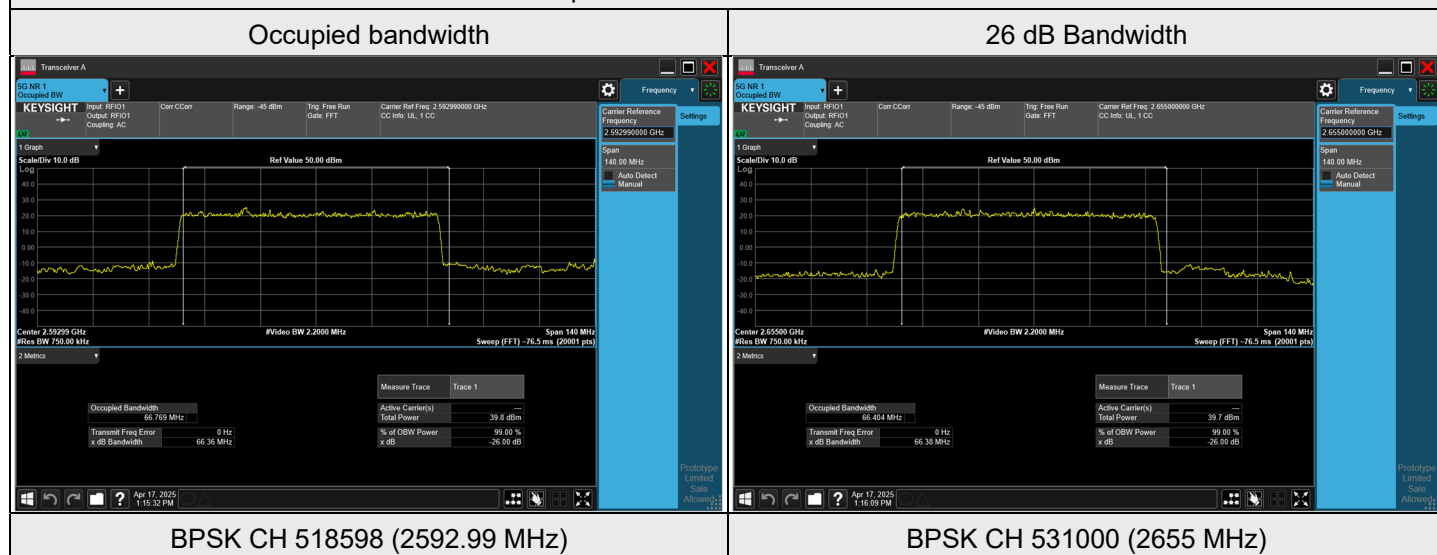
## Spectrum Plot of Worst Value



# NR n41 SCS 30 kHz, Ant 2\_PC2, Channel Bandwidth: 70 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 506202  | 2531.01         | 66.435                   | 66.35                 |
| BPSK       | 518598  | 2592.99         | 66.769                   | 66.36                 |
| BPSK       | 531000  | 2655            | 66.404                   | 66.38                 |

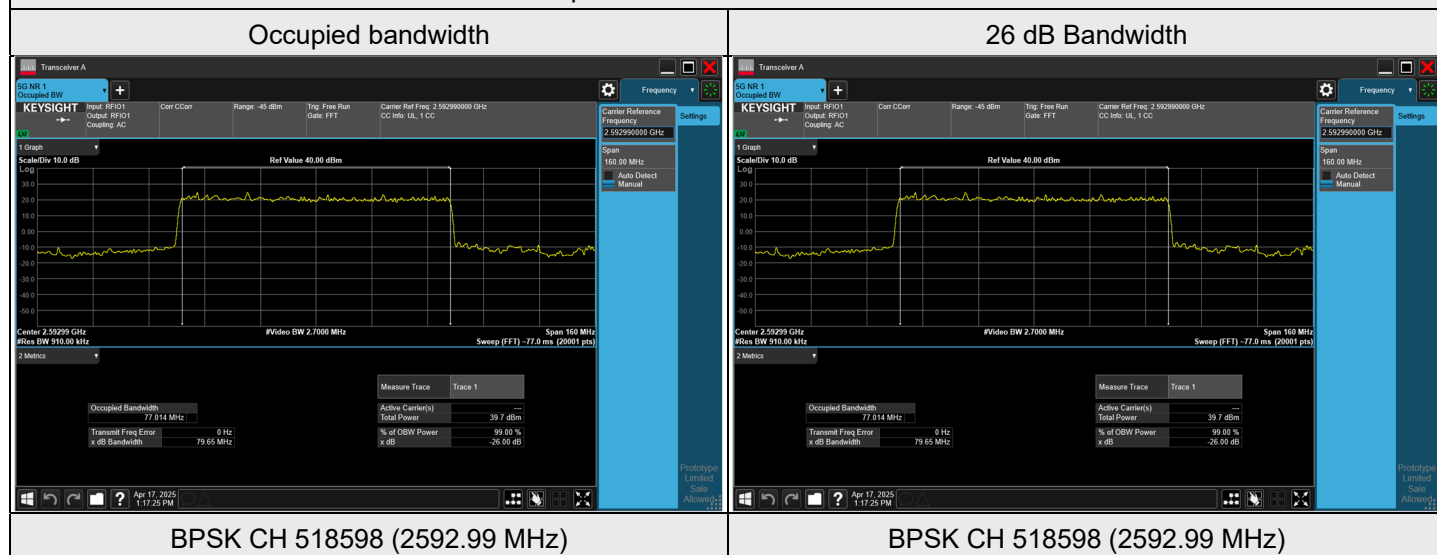
## Spectrum Plot of Worst Value



NR n41 SCS 30 kHz, Ant 2\_PC2, Channel Bandwidth: 80 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 507204  | 2536.02         | 76.644                   | 79.49                 |
| BPSK       | 518598  | 2592.99         | 77.014                   | 79.65                 |
| BPSK       | 529998  | 2649.99         | 76.820                   | 79.62                 |

Spectrum Plot of Worst Value

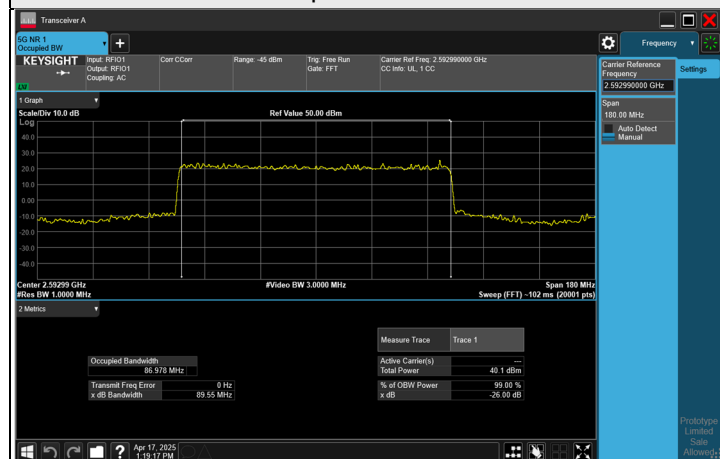


# NR n41 SCS 30 kHz, Ant 2\_PC2, Channel Bandwidth: 90 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 508200  | 2541            | 86.386                   | 89.45                 |
| BPSK       | 518598  | 2592.99         | 86.978                   | 89.55                 |
| BPSK       | 528996  | 2644.98         | 86.546                   | 89.47                 |

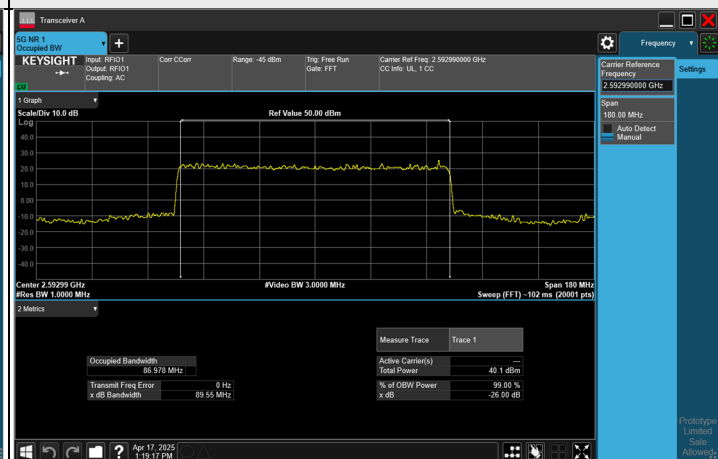
## Spectrum Plot of Worst Value

### Occupied bandwidth



BPSK CH 518598 (2592.99 MHz)

### 26 dB Bandwidth



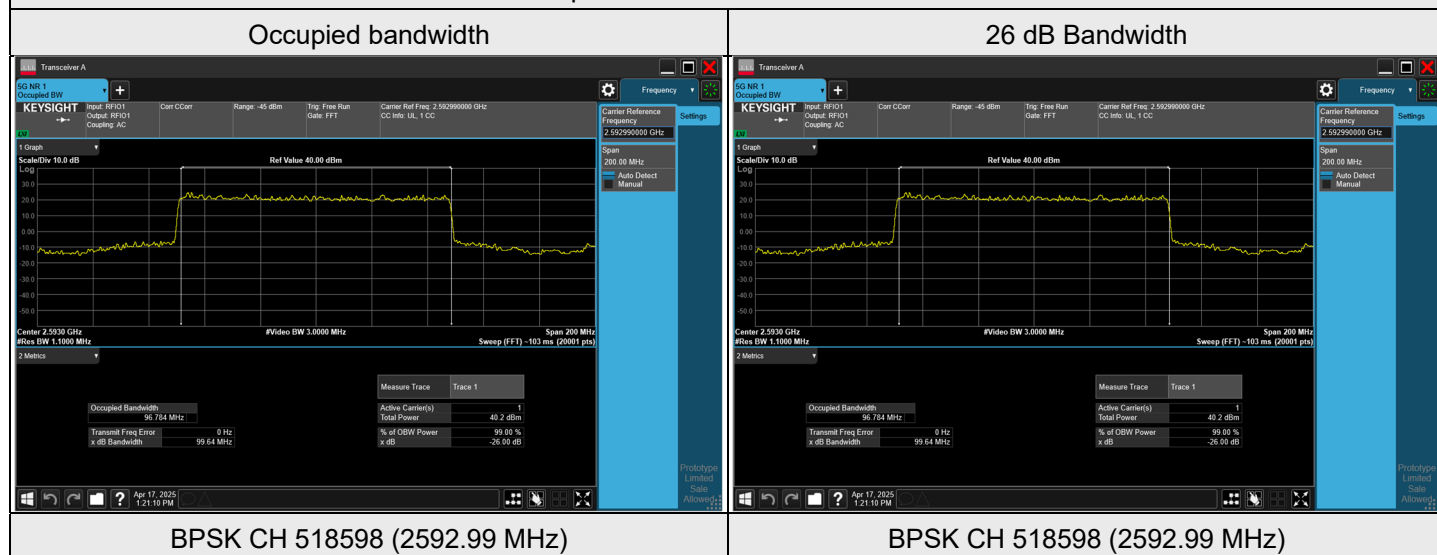
BPSK CH 518598 (2592.99 MHz)



# NR n41 SCS 30 kHz, Ant 2\_PC2, Channel Bandwidth: 100 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 509202  | 2546.01         | 95.924                   | 99.31                 |
| BPSK       | 518598  | 2592.99         | 96.784                   | 99.64                 |
| BPSK       | 528000  | 2640            | 96.169                   | 99.43                 |

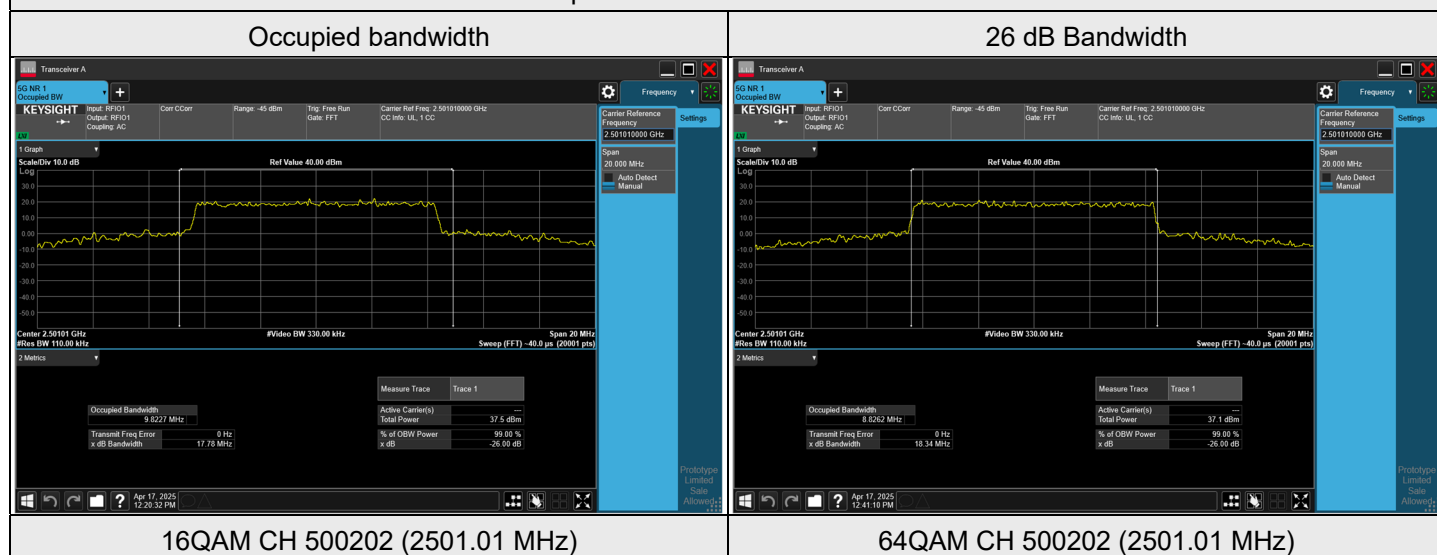
## Spectrum Plot of Worst Value



# NR n41 SCS 30 kHz, MIMO-Ant 1, Channel Bandwidth: 10 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| QPSK       | 500202  | 2501.01         | 8.5630                   | 9.329                 |
| QPSK       | 518598  | 2592.99         | 8.5730                   | 9.175                 |
| QPSK       | 537000  | 2685            | 8.5788                   | 9.269                 |
| 16QAM      | 500202  | 2501.01         | 9.8227                   | 17.78                 |
| 16QAM      | 518598  | 2592.99         | 8.5827                   | 9.391                 |
| 16QAM      | 537000  | 2685            | 8.5560                   | 9.203                 |
| 64QAM      | 500202  | 2501.01         | 8.8262                   | 18.34                 |
| 64QAM      | 518598  | 2592.99         | 8.5864                   | 9.403                 |
| 64QAM      | 537000  | 2685            | 8.5965                   | 9.324                 |
| 256QAM     | 500202  | 2501.01         | 8.5685                   | 9.223                 |
| 256QAM     | 518598  | 2592.99         | 8.5621                   | 9.242                 |
| 256QAM     | 537000  | 2685            | 8.5584                   | 9.192                 |

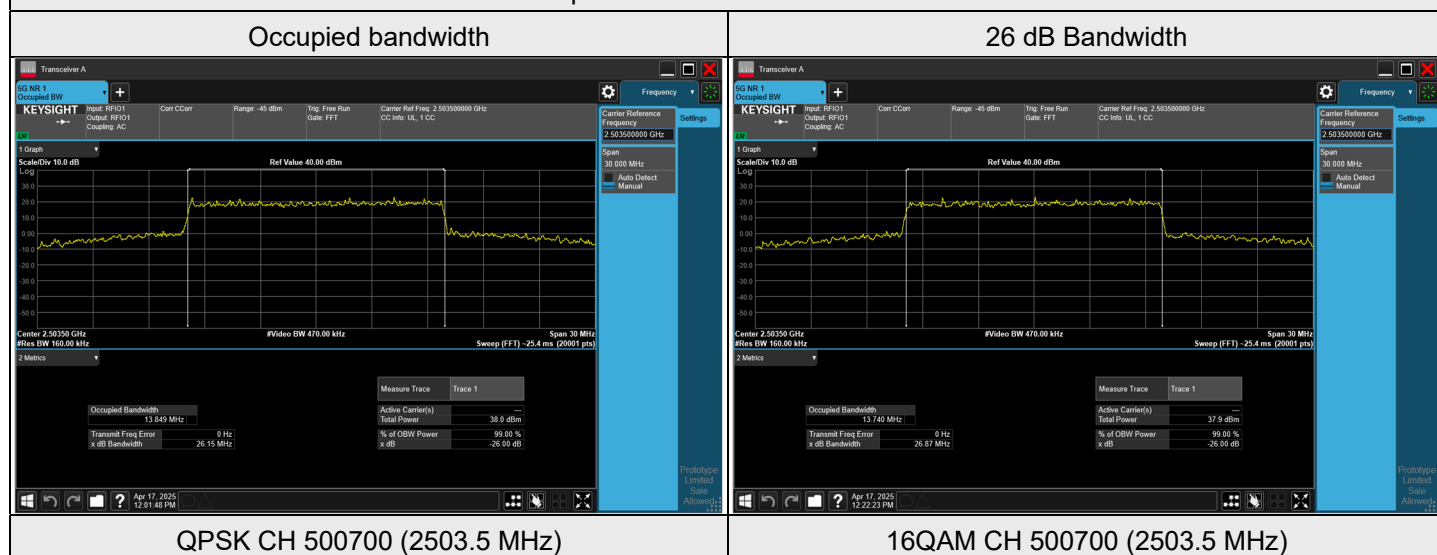
## Spectrum Plot of Worst Value



# NR n41 SCS 30 kHz, MIMO-Ant 1, Channel Bandwidth: 15 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| QPSK       | 500700  | 2503.5          | 13.849                   | 26.15                 |
| QPSK       | 518598  | 2592.99         | 13.587                   | 14.35                 |
| QPSK       | 536496  | 2682.48         | 13.572                   | 14.32                 |
| 16QAM      | 500700  | 2503.5          | 13.740                   | 26.87                 |
| 16QAM      | 518598  | 2592.99         | 13.558                   | 14.47                 |
| 16QAM      | 536496  | 2682.48         | 13.564                   | 14.33                 |
| 64QAM      | 500700  | 2503.5          | 13.729                   | 24.64                 |
| 64QAM      | 518598  | 2592.99         | 13.537                   | 14.33                 |
| 64QAM      | 536496  | 2682.48         | 13.558                   | 14.31                 |
| 256QAM     | 500700  | 2503.5          | 13.549                   | 14.41                 |
| 256QAM     | 518598  | 2592.99         | 13.555                   | 14.38                 |
| 256QAM     | 536496  | 2682.48         | 13.549                   | 14.41                 |

## Spectrum Plot of Worst Value



# NR n41 SCS 30 kHz, MIMO-Ant 1, Channel Bandwidth: 20 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| QPSK       | 501204  | 2506.02         | 18.365                   | 32.12                 |
| QPSK       | 518598  | 2592.99         | 18.168                   | 19.15                 |
| QPSK       | 535998  | 2679.99         | 18.184                   | 19.15                 |
| 16QAM      | 501204  | 2506.02         | 18.384                   | 30.84                 |
| 16QAM      | 518598  | 2592.99         | 18.181                   | 19.10                 |
| 16QAM      | 535998  | 2679.99         | 18.193                   | 19.04                 |
| 64QAM      | 501204  | 2506.02         | 18.313                   | 23.50                 |
| 64QAM      | 518598  | 2592.99         | 18.178                   | 19.19                 |
| 64QAM      | 535998  | 2679.99         | 18.206                   | 19.21                 |
| 256QAM     | 501204  | 2506.02         | 18.146                   | 19.11                 |
| 256QAM     | 518598  | 2592.99         | 18.150                   | 19.08                 |
| 256QAM     | 535998  | 2679.99         | 18.145                   | 19.09                 |

## Spectrum Plot of Worst Value

