

## FCC Part 96

## Occupied Bandwidth

n77\_2

| Mode                                               | 99% OBW (MHz) | EBW (MHz) |
|----------------------------------------------------|---------------|-----------|
| 10MHz_15kHz_3625MHz_CP-OFDM 16QAM_RB52@0           | 9.284         | 9.689     |
| 10MHz_15kHz_3625MHz_CP-OFDM 256QAM_RB52@0          | 9.256         | 9.695     |
| 10MHz_15kHz_3625MHz_CP-OFDM 64QAM_RB52@0           | 9.258         | 9.71      |
| 10MHz_15kHz_3625MHz_CP-OFDM QPSK_RB52@0            | 9.247         | 9.692     |
| 10MHz_15kHz_3625MHz_DFT-s-OFDM 16QAM_RB50@0        | 9.205         | 9.401     |
| 10MHz_15kHz_3625MHz_DFT-s-OFDM 256QAM_RB50@0       | 9.203         | 9.353     |
| 10MHz_15kHz_3625MHz_DFT-s-OFDM 64QAM_RB50@0        | 9.177         | 9.359     |
| 10MHz_15kHz_3625MHz_DFT-s-OFDM QPSK_RB50@0         | 9.202         | 9.35      |
| 10MHz_15kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB50@0 | 9.166         | 9.319     |
| 10MHz_30kHz_3625MHz_CP-OFDM 16QAM_RB24@0           | 8.539         | 9.157     |
| 10MHz_30kHz_3625MHz_CP-OFDM 256QAM_RB24@0          | 8.572         | 9.139     |
| 10MHz_30kHz_3625MHz_CP-OFDM 64QAM_RB24@0           | 8.562         | 9.136     |
| 10MHz_30kHz_3625MHz_CP-OFDM QPSK_RB24@0            | 8.569         | 9.15      |
| 10MHz_30kHz_3625MHz_DFT-s-OFDM 16QAM_RB24@0        | 8.534         | 9.123     |
| 10MHz_30kHz_3625MHz_DFT-s-OFDM 256QAM_RB24@0       | 8.565         | 9.153     |
| 10MHz_30kHz_3625MHz_DFT-s-OFDM 64QAM_RB24@0        | 8.562         | 9.155     |
| 10MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB24@0         | 8.563         | 9.056     |
| 10MHz_30kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB24@0 | 8.563         | 9.199     |
| 15MHz_15kHz_3625MHz_CP-OFDM 16QAM_RB79@0           | 14.070        | 14.763    |
| 15MHz_15kHz_3625MHz_CP-OFDM 256QAM_RB79@0          | 14.060        | 14.711    |
| 15MHz_15kHz_3625MHz_CP-OFDM 64QAM_RB79@0           | 14.057        | 14.718    |
| 15MHz_15kHz_3625MHz_CP-OFDM QPSK_RB79@0            | 14.061        | 14.747    |
| 15MHz_15kHz_3625MHz_DFT-s-OFDM 16QAM_RB75@0        | 13.945        | 13.995    |
| 15MHz_15kHz_3625MHz_DFT-s-OFDM 256QAM_RB75@0       | 13.985        | 14.026    |
| 15MHz_15kHz_3625MHz_DFT-s-OFDM 64QAM_RB75@0        | 13.926        | 14.107    |
| 15MHz_15kHz_3625MHz_DFT-s-OFDM QPSK_RB75@0         | 13.980        | 14.035    |
| 15MHz_15kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB75@0 | 13.996        | 14.011    |
| 15MHz_30kHz_3625MHz_CP-OFDM 16QAM_RB38@0           | 13.582        | 14.436    |
| 15MHz_30kHz_3625MHz_CP-OFDM 256QAM_RB38@0          | 13.570        | 14.468    |
| 15MHz_30kHz_3625MHz_CP-OFDM 64QAM_RB38@0           | 13.521        | 14.278    |
| 15MHz_30kHz_3625MHz_CP-OFDM QPSK_RB38@0            | 13.529        | 14.373    |
| 15MHz_30kHz_3625MHz_DFT-s-OFDM 16QAM_RB36@0        | 13.449        | 13.71     |
| 15MHz_30kHz_3625MHz_DFT-s-OFDM 256QAM_RB36@0       | 13.455        | 13.601    |
| 15MHz_30kHz_3625MHz_DFT-s-OFDM 64QAM_RB36@0        | 13.457        | 13.765    |
| 15MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB36@0         | 13.448        | 13.808    |
| 15MHz_30kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB36@0 | 13.462        | 13.662    |
| 20MHz_15kHz_3625MHz_CP-OFDM 16QAM_RB106@0          | 18.886        | 19.54     |
| 20MHz_15kHz_3625MHz_CP-OFDM 256QAM_RB106@0         | 18.838        | 19.627    |
| 20MHz_15kHz_3625MHz_CP-OFDM 64QAM_RB106@0          | 18.886        | 19.72     |
| 20MHz_15kHz_3625MHz_CP-OFDM QPSK_RB106@0           | 18.884        | 19.674    |

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|-----------------------------------------------------|--------|--------|
| 20MHz_15kHz_3625MHz_DFT-s-OFDM 16QAM_RB100@0        | 18.733 | 18.626 |
| 20MHz_15kHz_3625MHz_DFT-s-OFDM 256QAM_RB100@0       | 18.673 | 18.616 |
| 20MHz_15kHz_3625MHz_DFT-s-OFDM 64QAM_RB100@0        | 18.726 | 18.598 |
| 20MHz_15kHz_3625MHz_DFT-s-OFDM QPSK_RB100@0         | 18.729 | 18.664 |
| 20MHz_15kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB100@0 | 18.670 | 18.546 |
| 20MHz_30kHz_3625MHz_CP-OFDM 16QAM_RB51@0            | 18.172 | 18.999 |
| 20MHz_30kHz_3625MHz_CP-OFDM 256QAM_RB51@0           | 18.180 | 19.024 |
| 20MHz_30kHz_3625MHz_CP-OFDM 64QAM_RB51@0            | 18.175 | 19.067 |
| 20MHz_30kHz_3625MHz_CP-OFDM QPSK_RB51@0             | 18.186 | 18.979 |
| 20MHz_30kHz_3625MHz_DFT-s-OFDM 16QAM_RB50@0         | 18.010 | 18.704 |
| 20MHz_30kHz_3625MHz_DFT-s-OFDM 256QAM_RB50@0        | 18.015 | 18.658 |
| 20MHz_30kHz_3625MHz_DFT-s-OFDM 64QAM_RB50@0         | 18.001 | 18.791 |
| 20MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB50@0          | 18.007 | 18.699 |
| 20MHz_30kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB50@0  | 18.094 | 18.718 |
| 30MHz_30kHz_3625MHz_CP-OFDM 16QAM_RB78@0            | 27.846 | 29.124 |
| 30MHz_30kHz_3625MHz_CP-OFDM 256QAM_RB78@0           | 27.771 | 29.187 |
| 30MHz_30kHz_3625MHz_CP-OFDM 64QAM_RB78@0            | 27.843 | 29.145 |
| 30MHz_30kHz_3625MHz_CP-OFDM QPSK_RB78@0             | 27.849 | 29.18  |
| 30MHz_30kHz_3625MHz_DFT-s-OFDM 16QAM_RB75@0         | 27.765 | 28.02  |
| 30MHz_30kHz_3625MHz_DFT-s-OFDM 256QAM_RB75@0        | 27.648 | 28.211 |
| 30MHz_30kHz_3625MHz_DFT-s-OFDM 64QAM_RB75@0         | 27.513 | 28.185 |
| 30MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB75@0          | 27.638 | 27.995 |
| 30MHz_30kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB75@0  | 27.613 | 28.239 |
| 40MHz_15kHz_3625MHz_CP-OFDM 16QAM_RB216@0           | 38.424 | 40.02  |
| 40MHz_15kHz_3625MHz_CP-OFDM 256QAM_RB216@0          | 38.430 | 40.023 |
| 40MHz_15kHz_3625MHz_CP-OFDM 64QAM_RB216@0           | 38.423 | 40.007 |
| 40MHz_15kHz_3625MHz_CP-OFDM QPSK_RB216@0            | 38.460 | 40.03  |
| 40MHz_15kHz_3625MHz_DFT-s-OFDM 16QAM_RB216@0        | 38.432 | 39.992 |
| 40MHz_15kHz_3625MHz_DFT-s-OFDM 256QAM_RB216@0       | 38.421 | 40.026 |
| 40MHz_15kHz_3625MHz_DFT-s-OFDM 64QAM_RB216@0        | 38.594 | 40.101 |
| 40MHz_15kHz_3625MHz_DFT-s-OFDM QPSK_RB216@0         | 38.435 | 39.854 |
| 40MHz_15kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB216@0 | 38.413 | 40.112 |
| 40MHz_30kHz_3625MHz_CP-OFDM 16QAM_RB106@0           | 37.781 | 39.442 |
| 40MHz_30kHz_3625MHz_CP-OFDM 256QAM_RB106@0          | 37.775 | 39.504 |
| 40MHz_30kHz_3625MHz_CP-OFDM 64QAM_RB106@0           | 37.670 | 39.42  |
| 40MHz_30kHz_3625MHz_CP-OFDM QPSK_RB106@0            | 37.676 | 39.611 |
| 40MHz_30kHz_3625MHz_DFT-s-OFDM 16QAM_RB100@0        | 37.195 | 37.32  |
| 40MHz_30kHz_3625MHz_DFT-s-OFDM 256QAM_RB100@0       | 37.323 | 37.446 |
| 40MHz_30kHz_3625MHz_DFT-s-OFDM 64QAM_RB100@0        | 37.618 | 37.33  |
| 40MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB100@0         | 37.325 | 37.486 |
| 40MHz_30kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB100@0 | 37.281 | 37.332 |
| 50MHz_15kHz_3625MHz_CP-OFDM 16QAM_RB270@0           | 48.021 | 49.731 |

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|-----------------------------------------------------|--------|--------|
| 50MHz_15kHz_3625MHz_CP-OFDM256QAM_RB270@0           | 48.085 | 49.804 |
| 50MHz_15kHz_3625MHz_CP-OFDM64QAM_RB270@0            | 48.021 | 49.763 |
| 50MHz_15kHz_3625MHz_CP-OFDM QPSK_RB270@0            | 48.007 | 49.73  |
| 50MHz_15kHz_3625MHz_DFT-s-OFDM16QAM_RB270@0         | 48.023 | 49.81  |
| 50MHz_15kHz_3625MHz_DFT-s-OFDM256QAM_RB270@0        | 48.067 | 49.742 |
| 50MHz_15kHz_3625MHz_DFT-s-OFDM64QAM_RB270@0         | 48.050 | 49.758 |
| 50MHz_15kHz_3625MHz_DFT-s-OFDM QPSK_RB270@0         | 48.095 | 49.723 |
| 50MHz_15kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB270@0 | 48.088 | 49.532 |
| 50MHz_30kHz_3625MHz_CP-OFDM16QAM_RB133@0            | 47.406 | 49.077 |
| 50MHz_30kHz_3625MHz_CP-OFDM256QAM_RB133@0           | 47.463 | 49.248 |
| 50MHz_30kHz_3625MHz_CP-OFDM64QAM_RB133@0            | 47.289 | 49.409 |
| 50MHz_30kHz_3625MHz_CP-OFDM QPSK_RB133@0            | 47.438 | 49.363 |
| 50MHz_30kHz_3625MHz_DFT-s-OFDM16QAM_RB128@0         | 46.849 | 47.27  |
| 50MHz_30kHz_3625MHz_DFT-s-OFDM256QAM_RB128@0        | 47.051 | 47.583 |
| 50MHz_30kHz_3625MHz_DFT-s-OFDM64QAM_RB128@0         | 47.042 | 47.332 |
| 50MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB128@0         | 46.641 | 47.566 |
| 50MHz_30kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB128@0 | 46.837 | 47.33  |
| 60MHz_30kHz_3625MHz_CP-OFDM16QAM_RB162@0            | 57.702 | 60.392 |
| 60MHz_30kHz_3625MHz_CP-OFDM256QAM_RB162@0           | 57.848 | 60.204 |
| 60MHz_30kHz_3625MHz_CP-OFDM64QAM_RB162@0            | 57.866 | 60.313 |
| 60MHz_30kHz_3625MHz_CP-OFDM QPSK_RB162@0            | 57.612 | 60.314 |
| 60MHz_30kHz_3625MHz_DFT-s-OFDM16QAM_RB162@0         | 57.695 | 60.352 |
| 60MHz_30kHz_3625MHz_DFT-s-OFDM256QAM_RB162@0        | 57.705 | 60.404 |
| 60MHz_30kHz_3625MHz_DFT-s-OFDM64QAM_RB162@0         | 57.703 | 60.303 |
| 60MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB162@0         | 57.696 | 60.299 |
| 60MHz_30kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB162@0 | 57.677 | 60.338 |
| 70MHz_30kHz_3625MHz_CP-OFDM16QAM_RB189@0            | 67.255 | 70.064 |
| 70MHz_30kHz_3625MHz_CP-OFDM256QAM_RB189@0           | 67.345 | 70.016 |
| 70MHz_30kHz_3625MHz_CP-OFDM64QAM_RB189@0            | 67.262 | 69.963 |
| 70MHz_30kHz_3625MHz_CP-OFDM QPSK_RB189@0            | 67.532 | 70.135 |
| 70MHz_30kHz_3625MHz_DFT-s-OFDM16QAM_RB180@0         | 66.370 | 66.83  |
| 70MHz_30kHz_3625MHz_DFT-s-OFDM256QAM_RB180@0        | 66.651 | 66.804 |
| 70MHz_30kHz_3625MHz_DFT-s-OFDM64QAM_RB180@0         | 66.646 | 66.87  |
| 70MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB180@0         | 66.393 | 66.876 |
| 70MHz_30kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB180@0 | 66.455 | 66.859 |
| 80MHz_30kHz_3625MHz_CP-OFDM16QAM_RB217@0            | 77.272 | 80.068 |
| 80MHz_30kHz_3625MHz_CP-OFDM256QAM_RB217@0           | 77.244 | 80.222 |
| 80MHz_30kHz_3625MHz_CP-OFDM64QAM_RB217@0            | 77.165 | 80.108 |
| 80MHz_30kHz_3625MHz_CP-OFDM QPSK_RB217@0            | 77.235 | 80.288 |
| 80MHz_30kHz_3625MHz_DFT-s-OFDM16QAM_RB216@0         | 76.948 | 79.814 |
| 80MHz_30kHz_3625MHz_DFT-s-OFDM256QAM_RB216@0        | 76.857 | 79.693 |

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|------------------------------------------------------|--------|---------|
| 80MHz_30kHz_3625MHz_DFT-s-OFDM 64QAM_RB216@0         | 77.173 | 79.743  |
| 80MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB216@0          | 76.819 | 79.704  |
| 80MHz_30kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB216@0  | 76.914 | 79.902  |
| 90MHz_30kHz_3625MHz_CP-OFDM 16QAM_RB245@0            | 87.178 | 90.258  |
| 90MHz_30kHz_3625MHz_CP-OFDM 256QAM_RB245@0           | 87.263 | 90.044  |
| 90MHz_30kHz_3625MHz_CP-OFDM 64QAM_RB245@0            | 87.168 | 90.037  |
| 90MHz_30kHz_3625MHz_CP-OFDM QPSK_RB245@0             | 87.154 | 90.205  |
| 90MHz_30kHz_3625MHz_DFT-s-OFDM 16QAM_RB243@0         | 86.769 | 89.57   |
| 90MHz_30kHz_3625MHz_DFT-s-OFDM 256QAM_RB243@0        | 86.574 | 89.561  |
| 90MHz_30kHz_3625MHz_DFT-s-OFDM 64QAM_RB243@0         | 86.809 | 89.603  |
| 90MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB243@0          | 86.814 | 89.686  |
| 90MHz_30kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB243@0  | 86.478 | 89.557  |
| 100MHz_30kHz_3625MHz_CP-OFDM 16QAM_RB273@0           | 97.246 | 100.383 |
| 100MHz_30kHz_3625MHz_CP-OFDM 256QAM_RB273@0          | 96.954 | 100.37  |
| 100MHz_30kHz_3625MHz_CP-OFDM 64QAM_RB273@0           | 96.901 | 100.26  |
| 100MHz_30kHz_3625MHz_CP-OFDM QPSK_RB273@0            | 97.266 | 100.259 |
| 100MHz_30kHz_3625MHz_DFT-s-OFDM 16QAM_RB270@0        | 96.467 | 99.299  |
| 100MHz_30kHz_3625MHz_DFT-s-OFDM 256QAM_RB270@0       | 96.133 | 99.231  |
| 100MHz_30kHz_3625MHz_DFT-s-OFDM 64QAM_RB270@0        | 96.447 | 99.3    |
| 100MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB270@0         | 96.157 | 99.228  |
| 100MHz_30kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB270@0 | 96.127 | 99.137  |

**n78\_2**

| Mode                                               | 99% OBW (MHz) | EBW (MHz) |
|----------------------------------------------------|---------------|-----------|
| 10MHz_15kHz_3625MHz_CP-OFDM 16QAM_RB52@0           | 9.251         | 9.672     |
| 10MHz_15kHz_3625MHz_CP-OFDM 256QAM_RB52@0          | 9.287         | 9.708     |
| 10MHz_15kHz_3625MHz_CP-OFDM 64QAM_RB52@0           | 9.259         | 9.703     |
| 10MHz_15kHz_3625MHz_CP-OFDM QPSK_RB52@0            | 9.258         | 9.71      |
| 10MHz_15kHz_3625MHz_DFT-s-OFDM 16QAM_RB50@0        | 9.206         | 9.36      |
| 10MHz_15kHz_3625MHz_DFT-s-OFDM 256QAM_RB50@0       | 9.180         | 9.366     |
| 10MHz_15kHz_3625MHz_DFT-s-OFDM 64QAM_RB50@0        | 9.175         | 9.319     |
| 10MHz_15kHz_3625MHz_DFT-s-OFDM QPSK_RB50@0         | 9.204         | 9.34      |
| 10MHz_15kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB50@0 | 9.177         | 9.343     |
| 10MHz_30kHz_3625MHz_CP-OFDM 16QAM_RB24@0           | 8.609         | 9.184     |
| 10MHz_30kHz_3625MHz_CP-OFDM 256QAM_RB24@0          | 8.567         | 9.006     |
| 10MHz_30kHz_3625MHz_CP-OFDM 64QAM_RB24@0           | 8.573         | 9.106     |
| 10MHz_30kHz_3625MHz_CP-OFDM QPSK_RB24@0            | 8.561         | 9.119     |
| 10MHz_30kHz_3625MHz_DFT-s-OFDM 16QAM_RB24@0        | 8.567         | 9.176     |
| 10MHz_30kHz_3625MHz_DFT-s-OFDM 256QAM_RB24@0       | 8.531         | 9.039     |
| 10MHz_30kHz_3625MHz_DFT-s-OFDM 64QAM_RB24@0        | 8.529         | 9.222     |
| 10MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB24@0         | 8.561         | 9.208     |

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|-----------------------------------------------------|--------|--------|
| 10MHz_30kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB24@0  | 8.562  | 9.225  |
| 15MHz_15kHz_3625MHz_CP-OFDM 16QAM_RB79@0            | 14.063 | 14.733 |
| 15MHz_15kHz_3625MHz_CP-OFDM 256QAM_RB79@0           | 14.064 | 14.776 |
| 15MHz_15kHz_3625MHz_CP-OFDM 64QAM_RB79@0            | 14.069 | 14.735 |
| 15MHz_15kHz_3625MHz_CP-OFDM QPSK_RB79@0             | 14.102 | 14.716 |
| 15MHz_15kHz_3625MHz_DFT-s-OFDM 16QAM_RB75@0         | 13.931 | 14.068 |
| 15MHz_15kHz_3625MHz_DFT-s-OFDM 256QAM_RB75@0        | 13.940 | 14.061 |
| 15MHz_15kHz_3625MHz_DFT-s-OFDM 64QAM_RB75@0         | 14.004 | 14.088 |
| 15MHz_15kHz_3625MHz_DFT-s-OFDM QPSK_RB75@0          | 13.930 | 14.06  |
| 15MHz_15kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB75@0  | 13.989 | 14.095 |
| 15MHz_30kHz_3625MHz_CP-OFDM 16QAM_RB38@0            | 13.578 | 14.313 |
| 15MHz_30kHz_3625MHz_CP-OFDM 256QAM_RB38@0           | 13.575 | 14.357 |
| 15MHz_30kHz_3625MHz_CP-OFDM 64QAM_RB38@0            | 13.566 | 14.429 |
| 15MHz_30kHz_3625MHz_CP-OFDM QPSK_RB38@0             | 13.512 | 14.375 |
| 15MHz_30kHz_3625MHz_DFT-s-OFDM 16QAM_RB36@0         | 13.466 | 13.818 |
| 15MHz_30kHz_3625MHz_DFT-s-OFDM 256QAM_RB36@0        | 13.462 | 13.631 |
| 15MHz_30kHz_3625MHz_DFT-s-OFDM 64QAM_RB36@0         | 13.456 | 13.815 |
| 15MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB36@0          | 13.461 | 13.608 |
| 15MHz_30kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB36@0  | 13.443 | 13.622 |
| 25MHz_15kHz_3625MHz_CP-OFDM 16QAM_RB133@0           | 23.647 | 24.612 |
| 25MHz_15kHz_3625MHz_CP-OFDM 256QAM_RB133@0          | 23.646 | 24.609 |
| 25MHz_15kHz_3625MHz_CP-OFDM 64QAM_RB133@0           | 23.718 | 24.59  |
| 25MHz_15kHz_3625MHz_CP-OFDM QPSK_RB133@0            | 23.719 | 24.582 |
| 25MHz_15kHz_3625MHz_DFT-s-OFDM 16QAM_RB128@0        | 23.510 | 23.714 |
| 25MHz_15kHz_3625MHz_DFT-s-OFDM 256QAM_RB128@0       | 23.522 | 23.74  |
| 25MHz_15kHz_3625MHz_DFT-s-OFDM 64QAM_RB128@0        | 23.436 | 23.722 |
| 25MHz_15kHz_3625MHz_DFT-s-OFDM QPSK_RB128@0         | 23.349 | 23.727 |
| 25MHz_15kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB128@0 | 23.442 | 23.693 |
| 25MHz_30kHz_3625MHz_CP-OFDM 16QAM_RB65@0            | 23.202 | 24.28  |
| 25MHz_30kHz_3625MHz_CP-OFDM 256QAM_RB65@0           | 23.215 | 24.137 |
| 25MHz_30kHz_3625MHz_CP-OFDM 64QAM_RB65@0            | 23.129 | 24.217 |
| 25MHz_30kHz_3625MHz_CP-OFDM QPSK_RB65@0             | 23.146 | 24.261 |
| 25MHz_30kHz_3625MHz_DFT-s-OFDM 16QAM_RB64@0         | 23.006 | 24.04  |
| 25MHz_30kHz_3625MHz_DFT-s-OFDM 256QAM_RB64@0        | 23.012 | 23.991 |
| 25MHz_30kHz_3625MHz_DFT-s-OFDM 64QAM_RB64@0         | 22.938 | 23.97  |
| 25MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB64@0          | 23.017 | 23.805 |
| 25MHz_30kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB64@0  | 22.943 | 24.039 |
| 30MHz_15kHz_3625MHz_CP-OFDM 16QAM_RB160@0           | 28.458 | 29.549 |
| 30MHz_15kHz_3625MHz_CP-OFDM 256QAM_RB160@0          | 28.465 | 29.649 |
| 30MHz_15kHz_3625MHz_CP-OFDM 64QAM_RB160@0           | 28.474 | 29.707 |
| 30MHz_15kHz_3625MHz_CP-OFDM QPSK_RB160@0            | 28.459 | 29.641 |
| 30MHz_15kHz_3625MHz_DFT-s-OFDM 16QAM_RB160@0        | 28.498 | 29.611 |

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|-----------------------------------------------------|--------|--------|
| 30MHz_15kHz_3625MHz_DFT-s-OFDM256QAM_RB160@0        | 28.572 | 29.571 |
| 30MHz_15kHz_3625MHz_DFT-s-OFDM64QAM_RB160@0         | 28.483 | 29.502 |
| 30MHz_15kHz_3625MHz_DFT-s-OFDM QPSK_RB160@0         | 28.467 | 29.631 |
| 30MHz_15kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB160@0 | 28.370 | 29.557 |
| 30MHz_30kHz_3625MHz_CP-OFDM16QAM_RB78@0             | 27.761 | 29.136 |
| 30MHz_30kHz_3625MHz_CP-OFDM256QAM_RB78@0            | 27.863 | 29.318 |
| 30MHz_30kHz_3625MHz_CP-OFDM64QAM_RB78@0             | 27.770 | 29.112 |
| 30MHz_30kHz_3625MHz_CP-OFDM QPSK_RB78@0             | 27.750 | 29.284 |
| 30MHz_30kHz_3625MHz_DFT-s-OFDM16QAM_RB75@0          | 27.645 | 28.112 |
| 30MHz_30kHz_3625MHz_DFT-s-OFDM256QAM_RB75@0         | 27.523 | 28.21  |
| 30MHz_30kHz_3625MHz_DFT-s-OFDM64QAM_RB75@0          | 27.517 | 28.088 |
| 30MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB75@0          | 27.411 | 28     |
| 30MHz_30kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB75@0  | 27.722 | 28.086 |
| 40MHz_15kHz_3625MHz_CP-OFDM16QAM_RB216@0            | 38.434 | 39.916 |
| 40MHz_15kHz_3625MHz_CP-OFDM256QAM_RB216@0           | 38.444 | 40.05  |
| 40MHz_15kHz_3625MHz_CP-OFDM64QAM_RB216@0            | 38.431 | 39.994 |
| 40MHz_15kHz_3625MHz_CP-OFDM QPSK_RB216@0            | 38.470 | 40.179 |
| 40MHz_15kHz_3625MHz_DFT-s-OFDM16QAM_RB216@0         | 38.473 | 40.152 |
| 40MHz_15kHz_3625MHz_DFT-s-OFDM256QAM_RB216@0        | 38.433 | 39.895 |
| 40MHz_15kHz_3625MHz_DFT-s-OFDM64QAM_RB216@0         | 38.565 | 40.102 |
| 40MHz_15kHz_3625MHz_DFT-s-OFDM QPSK_RB216@0         | 38.402 | 40.042 |
| 40MHz_15kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB216@0 | 38.442 | 40.017 |
| 40MHz_30kHz_3625MHz_CP-OFDM16QAM_RB106@0            | 37.789 | 39.461 |
| 40MHz_30kHz_3625MHz_CP-OFDM256QAM_RB106@0           | 37.931 | 39.581 |
| 40MHz_30kHz_3625MHz_CP-OFDM64QAM_RB106@0            | 37.820 | 39.536 |
| 40MHz_30kHz_3625MHz_CP-OFDM QPSK_RB106@0            | 37.783 | 39.553 |
| 40MHz_30kHz_3625MHz_DFT-s-OFDM16QAM_RB100@0         | 37.347 | 37.268 |
| 40MHz_30kHz_3625MHz_DFT-s-OFDM256QAM_RB100@0        | 37.354 | 37.36  |
| 40MHz_30kHz_3625MHz_DFT-s-OFDM64QAM_RB100@0         | 37.446 | 37.514 |
| 40MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB100@0         | 37.483 | 37.559 |
| 40MHz_30kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB100@0 | 37.455 | 37.355 |
| 50MHz_15kHz_3625MHz_CP-OFDM16QAM_RB270@0            | 48.075 | 49.682 |
| 50MHz_15kHz_3625MHz_CP-OFDM256QAM_RB270@0           | 48.068 | 49.799 |
| 50MHz_15kHz_3625MHz_CP-OFDM64QAM_RB270@0            | 48.087 | 49.723 |
| 50MHz_15kHz_3625MHz_CP-OFDM QPSK_RB270@0            | 48.034 | 49.761 |
| 50MHz_15kHz_3625MHz_DFT-s-OFDM16QAM_RB270@0         | 48.091 | 49.786 |
| 50MHz_15kHz_3625MHz_DFT-s-OFDM256QAM_RB270@0        | 48.057 | 49.738 |
| 50MHz_15kHz_3625MHz_DFT-s-OFDM64QAM_RB270@0         | 48.070 | 49.76  |
| 50MHz_15kHz_3625MHz_DFT-s-OFDM QPSK_RB270@0         | 48.090 | 49.706 |
| 50MHz_15kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB270@0 | 48.043 | 49.55  |
| 50MHz_30kHz_3625MHz_CP-OFDM16QAM_RB133@0            | 47.422 | 49.287 |
| 50MHz_30kHz_3625MHz_CP-OFDM256QAM_RB133@0           | 47.247 | 49.124 |

|                                                     |        |        |
|-----------------------------------------------------|--------|--------|
| 50MHz_30kHz_3625MHz_CP-OFDM 64QAM_RB133@0           | 47.459 | 49.21  |
| 50MHz_30kHz_3625MHz_CP-OFDM QPSK_RB133@0            | 47.417 | 49.232 |
| 50MHz_30kHz_3625MHz_DFT-s-OFDM 16QAM_RB128@0        | 47.071 | 47.378 |
| 50MHz_30kHz_3625MHz_DFT-s-OFDM 256QAM_RB128@0       | 47.282 | 47.498 |
| 50MHz_30kHz_3625MHz_DFT-s-OFDM 64QAM_RB128@0        | 47.013 | 47.376 |
| 50MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB128@0         | 46.693 | 47.434 |
| 50MHz_30kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB128@0 | 46.676 | 47.375 |
| 60MHz_30kHz_3625MHz_CP-OFDM 16QAM_RB162@0           | 57.466 | 60.116 |
| 60MHz_30kHz_3625MHz_CP-OFDM 256QAM_RB162@0          | 57.466 | 60.385 |
| 60MHz_30kHz_3625MHz_CP-OFDM 64QAM_RB162@0           | 57.696 | 60.297 |
| 60MHz_30kHz_3625MHz_CP-OFDM QPSK_RB162@0            | 57.701 | 60.271 |
| 60MHz_30kHz_3625MHz_DFT-s-OFDM 16QAM_RB162@0        | 57.871 | 60.366 |
| 60MHz_30kHz_3625MHz_DFT-s-OFDM 256QAM_RB162@0       | 57.673 | 60.385 |
| 60MHz_30kHz_3625MHz_DFT-s-OFDM 64QAM_RB162@0        | 57.691 | 60.335 |
| 60MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB162@0         | 57.856 | 60.379 |
| 60MHz_30kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB162@0 | 57.631 | 60.324 |
| 70MHz_30kHz_3625MHz_CP-OFDM 16QAM_RB189@0           | 67.359 | 70.136 |
| 70MHz_30kHz_3625MHz_CP-OFDM 256QAM_RB189@0          | 67.332 | 70.063 |
| 70MHz_30kHz_3625MHz_CP-OFDM 64QAM_RB189@0           | 67.272 | 69.992 |
| 70MHz_30kHz_3625MHz_CP-OFDM QPSK_RB189@0            | 67.328 | 70.132 |
| 70MHz_30kHz_3625MHz_DFT-s-OFDM 16QAM_RB180@0        | 66.333 | 66.806 |
| 70MHz_30kHz_3625MHz_DFT-s-OFDM 256QAM_RB180@0       | 66.359 | 66.876 |
| 70MHz_30kHz_3625MHz_DFT-s-OFDM 64QAM_RB180@0        | 66.614 | 66.851 |
| 70MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB180@0         | 66.571 | 66.817 |
| 70MHz_30kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB180@0 | 66.566 | 66.839 |
| 80MHz_30kHz_3625MHz_CP-OFDM 16QAM_RB217@0           | 77.276 | 80.076 |
| 80MHz_30kHz_3625MHz_CP-OFDM 256QAM_RB217@0          | 77.464 | 80.169 |
| 80MHz_30kHz_3625MHz_CP-OFDM 64QAM_RB217@0           | 77.277 | 80.127 |
| 80MHz_30kHz_3625MHz_CP-OFDM QPSK_RB217@0            | 77.216 | 80.203 |
| 80MHz_30kHz_3625MHz_DFT-s-OFDM 16QAM_RB216@0        | 76.901 | 79.827 |
| 80MHz_30kHz_3625MHz_DFT-s-OFDM 256QAM_RB216@0       | 76.831 | 79.714 |
| 80MHz_30kHz_3625MHz_DFT-s-OFDM 64QAM_RB216@0        | 76.828 | 79.867 |
| 80MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB216@0         | 76.860 | 79.874 |
| 80MHz_30kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB216@0 | 76.902 | 79.929 |
| 90MHz_30kHz_3625MHz_CP-OFDM 16QAM_RB245@0           | 87.225 | 90.303 |
| 90MHz_30kHz_3625MHz_CP-OFDM 256QAM_RB245@0          | 86.917 | 90.305 |
| 90MHz_30kHz_3625MHz_CP-OFDM 64QAM_RB245@0           | 86.937 | 90.246 |
| 90MHz_30kHz_3625MHz_CP-OFDM QPSK_RB245@0            | 87.154 | 90.31  |
| 90MHz_30kHz_3625MHz_DFT-s-OFDM 16QAM_RB243@0        | 86.794 | 89.669 |
| 90MHz_30kHz_3625MHz_DFT-s-OFDM 256QAM_RB243@0       | 86.782 | 89.473 |
| 90MHz_30kHz_3625MHz_DFT-s-OFDM 64QAM_RB243@0        | 86.465 | 89.605 |

|                                                         |        |         |
|---------------------------------------------------------|--------|---------|
| 90MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB243@0             | 86.794 | 89.639  |
| 90MHz_30kHz_3625MHz_DFT-s-OFDM $\pi/2$ BPSK_RB243@0     | 86.477 | 89.504  |
| 100MHz_30kHz_3625MHz_CP-OFDM 16QAM_RB273@0              | 97.232 | 100.414 |
| 100MHz_30kHz_3625MHz_CP-OFDM 256QAM_RB273@0             | 96.976 | 100.338 |
| 100MHz_30kHz_3625MHz_CP-OFDM 64QAM_RB273@0              | 97.000 | 100.238 |
| 100MHz_30kHz_3625MHz_CP-OFDM QPSK_RB273@0               | 97.289 | 100.163 |
| 100MHz_30kHz_3625MHz_DFT-s-OFDM 16QAM_RB270@0           | 96.473 | 99.294  |
| 100MHz_30kHz_3625MHz_DFT-s-OFDM 256<br>QAM_RB270@0      | 95.760 | 99.197  |
| 100MHz_30kHz_3625MHz_DFT-s-OFDM 64QAM_RB270@0           | 96.171 | 99.298  |
| 100MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB270@0            | 96.151 | 99.175  |
| 100MHz_30kHz_3625MHz_DFT-s-OFDM $\pi/2$<br>BPSK_RB270@0 | 96.049 | 99.229  |

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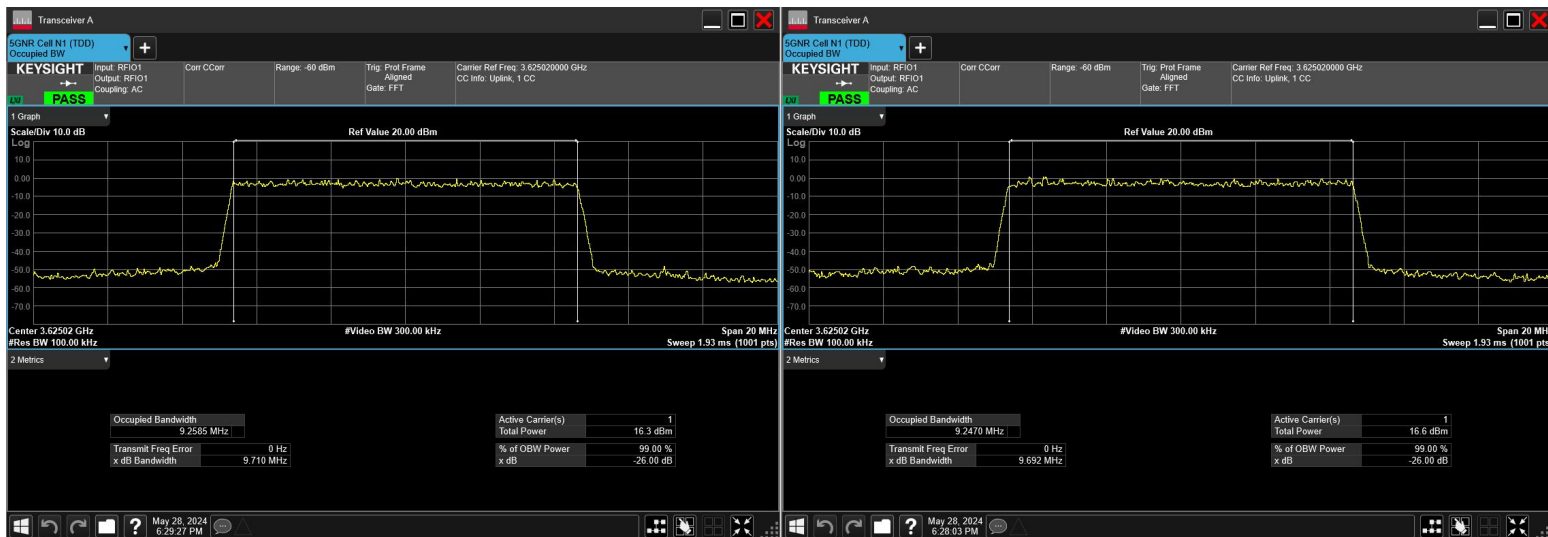
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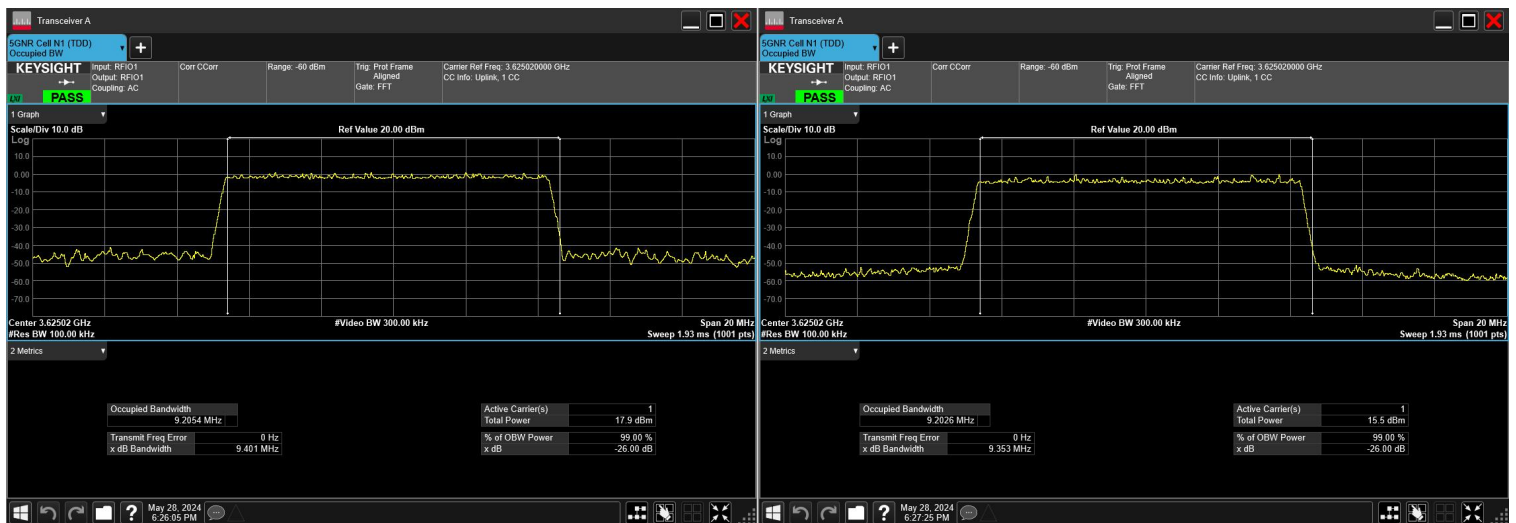
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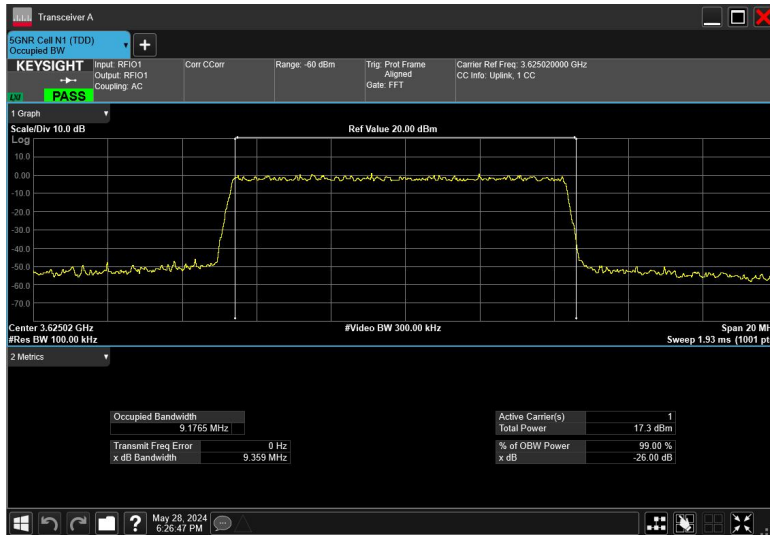


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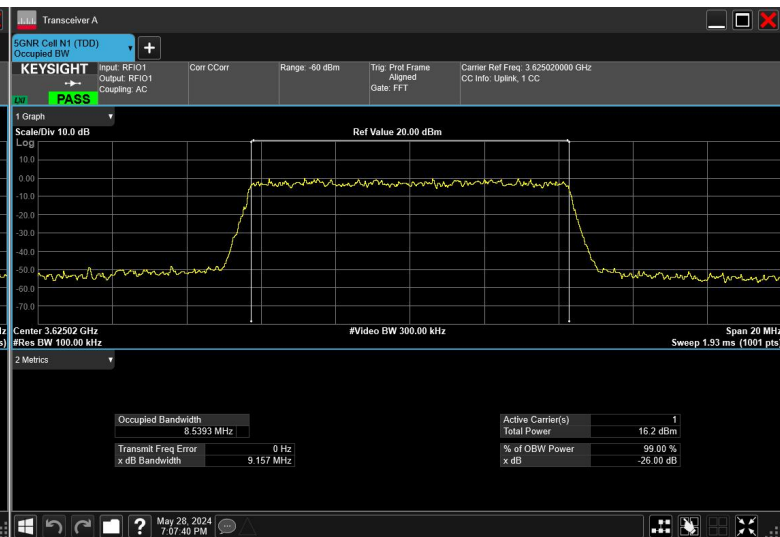
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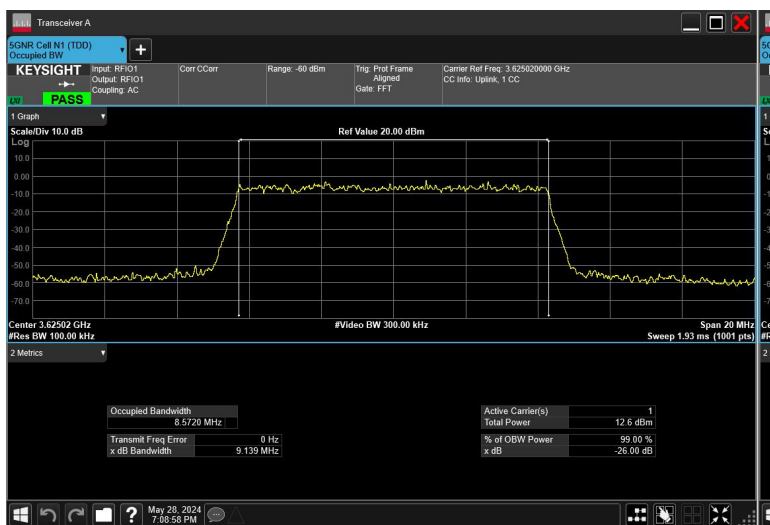
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10MHz\_30kHz\_3625MHz\_CP-OFDM 16QAM\_RB24@0



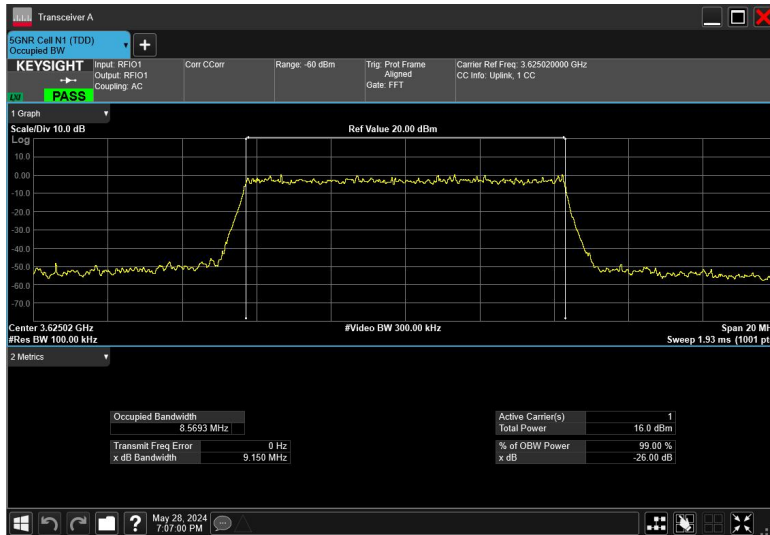
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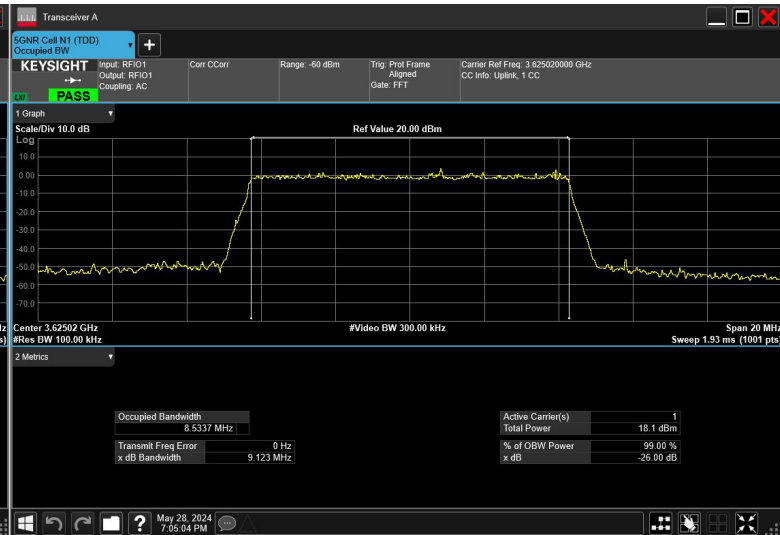
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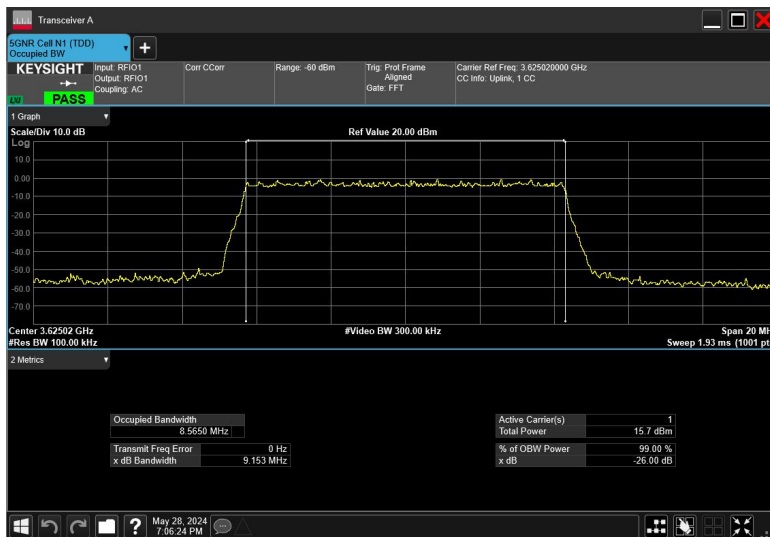
10MHz\_30kHz\_3625MHz\_CP-OFDM QPSK\_RB24@0



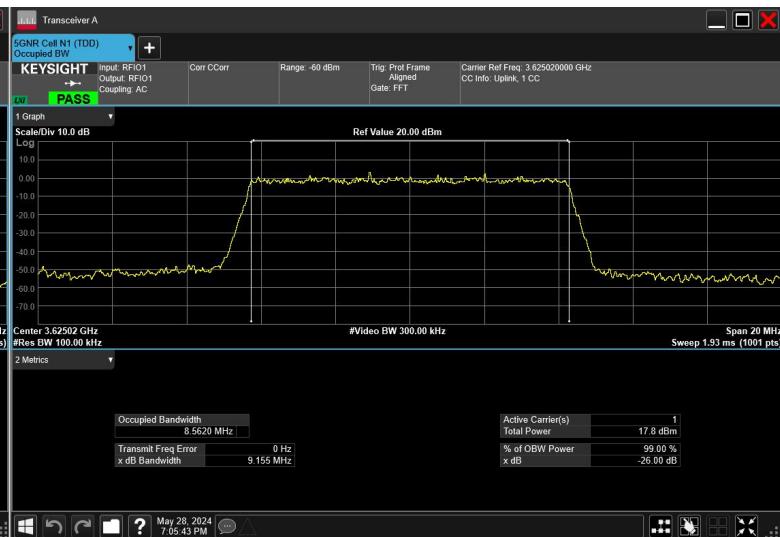
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10MHz\_30kHz\_3625MHz\_DFT-s-OFDM 256QAM\_RB24@0



10MHz\_30kHz\_3625MHz\_DFT-s-OFDM 64QAM\_RB24@0



10MHz\_30kHz\_3625MHz\_DFT-s-OFDM QPSK\_RB24@0

10MHz\_30kHz\_3625MHz\_DFT-s-OFDM  $\pi/2$  BPSK\_RB24@0