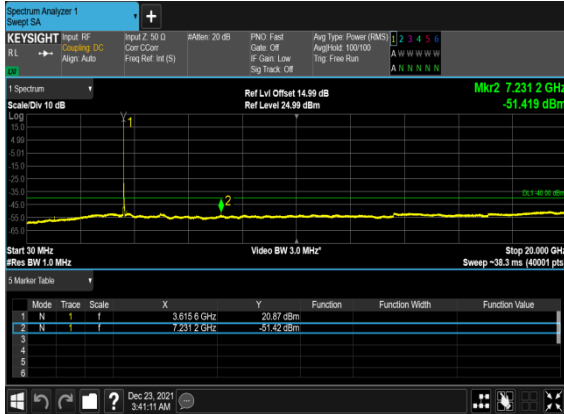




N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



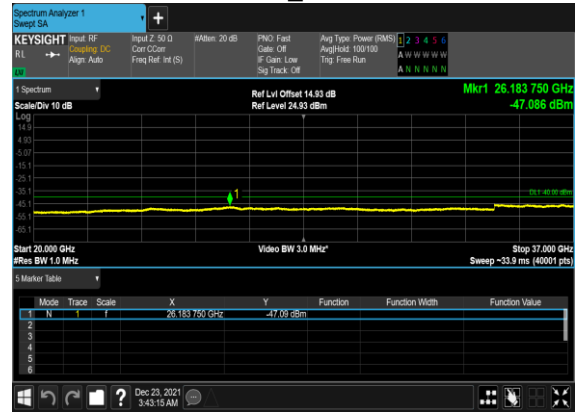
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



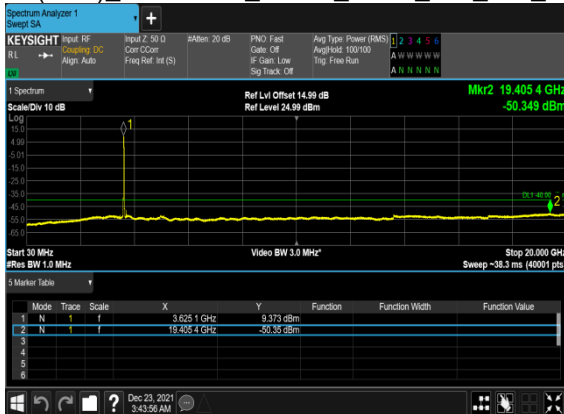
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N48(20M)_CP-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N48(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N48(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH





N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



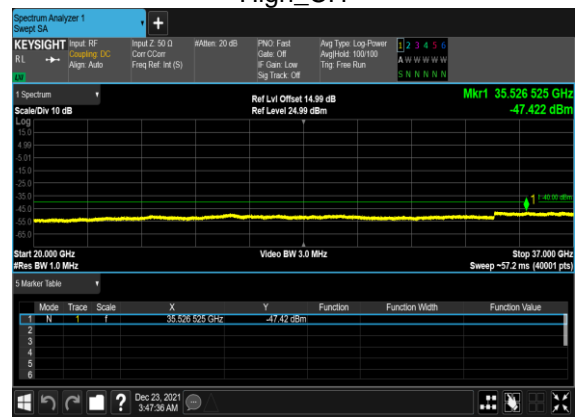
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



N48(20M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH



N48(20M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH



N48(20M)_CP-OFDM_QPSK_Outer_Full_High_CH



N48(20M)_CP-OFDM_QPSK_Outer_Full_High_CH





N48(50M)_CP-OFDM_QPSK_Edge_1RB_Left_ Low_CH



N48(50M)_CP-OFDM_QPSK_Edge_1RB_Left_ Low_CH



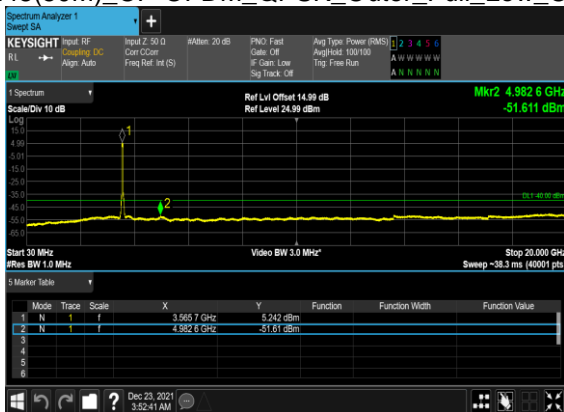
N48(50M)_CP-OFDM_QPSK_Edge_1RB_Right_ Low_CH



N48(50M)_CP-OFDM_QPSK_Edge_1RB_Right_ Low_CH



N48(50M)_CP-OFDM_QPSK_Outer_Full_Low_CH

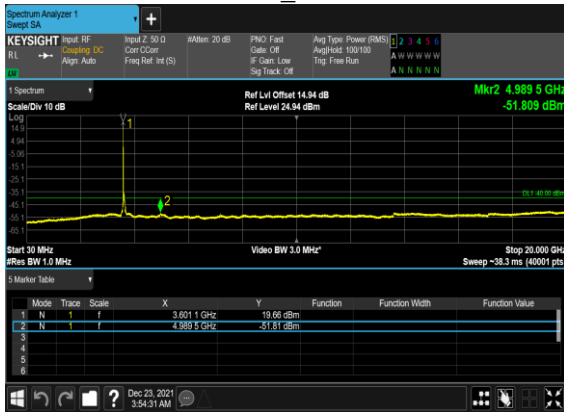


N48(50M)_CP-OFDM_QPSK_Outer_Full_Low_CH





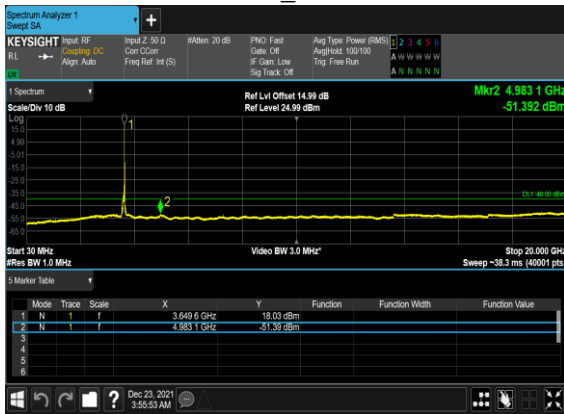
N48(50M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(50M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(50M)_CP-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N48(50M)_CP-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N48(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

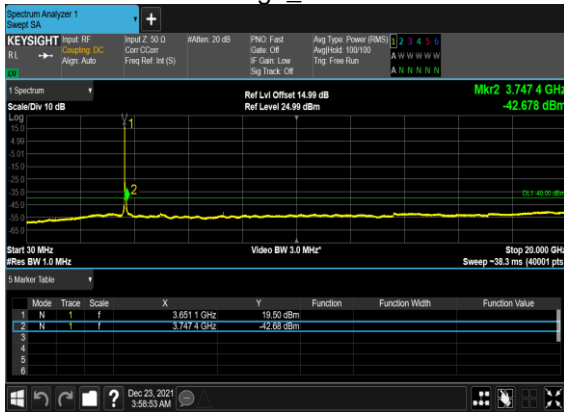


N48(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH





N48(50M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



N48(50M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



N48(50M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH



N48(50M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH



N48(50M)_CP-OFDM_QPSK_Outer_Full_High_CH



N48(50M)_CP-OFDM_QPSK_Outer_Full_High_CH



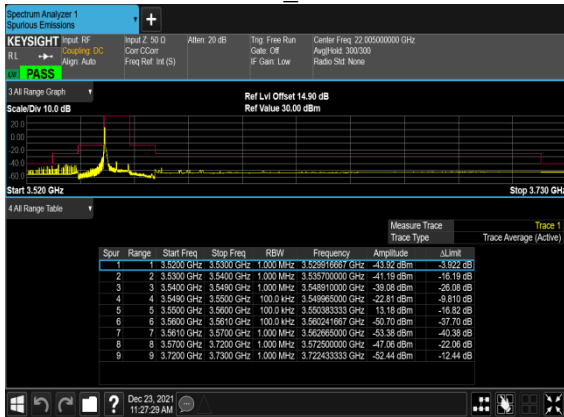


A5.5 Conducted Band Edge

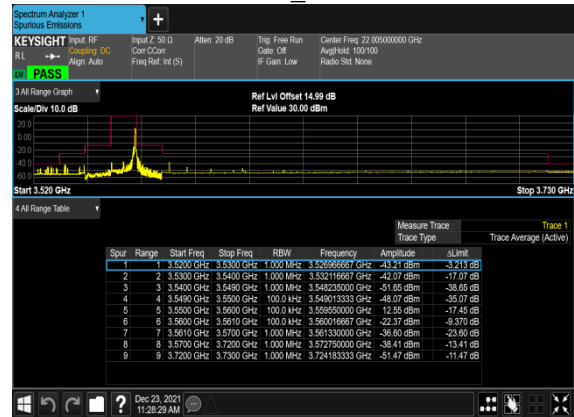
| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn | Freq (MHz) | Modulation | RB | Result | Verdict |
|---------|-----------|-----------------|--------|------------|--------------|-------|-----------|---------|
| 48 | 15 | 10 | 637000 | 3555.0 | CP-OFDM QPSK | 1@0 | see graph | PASS |
| 48 | 15 | 10 | 637000 | 3555.0 | CP-OFDM QPSK | 1@51 | see graph | PASS |
| 48 | 15 | 10 | 637000 | 3555.0 | CP-OFDM QPSK | 52@0 | see graph | PASS |
| 48 | 15 | 10 | 641666 | 3624.99 | CP-OFDM QPSK | 1@0 | see graph | PASS |
| 48 | 15 | 10 | 641666 | 3624.99 | CP-OFDM QPSK | 1@51 | see graph | PASS |
| 48 | 15 | 10 | 641666 | 3624.99 | CP-OFDM QPSK | 52@0 | see graph | PASS |
| 48 | 15 | 10 | 646332 | 3694.98 | CP-OFDM QPSK | 1@0 | see graph | PASS |
| 48 | 15 | 10 | 646332 | 3694.98 | CP-OFDM QPSK | 1@51 | see graph | PASS |
| 48 | 15 | 10 | 646332 | 3694.98 | CP-OFDM QPSK | 52@0 | see graph | PASS |
| 48 | 15 | 20 | 637334 | 3560.01 | CP-OFDM QPSK | 1@0 | see graph | PASS |
| 48 | 15 | 20 | 637334 | 3560.01 | CP-OFDM QPSK | 1@105 | see graph | PASS |
| 48 | 15 | 20 | 637334 | 3560.01 | CP-OFDM QPSK | 106@0 | see graph | PASS |
| 48 | 15 | 20 | 641666 | 3624.99 | CP-OFDM QPSK | 1@0 | see graph | PASS |
| 48 | 15 | 20 | 641666 | 3624.99 | CP-OFDM QPSK | 1@105 | see graph | PASS |
| 48 | 15 | 20 | 641666 | 3624.99 | CP-OFDM QPSK | 106@0 | see graph | PASS |
| 48 | 15 | 20 | 646000 | 3690.0 | CP-OFDM QPSK | 1@0 | see graph | PASS |
| 48 | 15 | 20 | 646000 | 3690.0 | CP-OFDM QPSK | 1@105 | see graph | PASS |
| 48 | 15 | 20 | 646000 | 3690.0 | CP-OFDM QPSK | 106@0 | see graph | PASS |
| 48 | 15 | 50 | 638334 | 3575.01 | CP-OFDM QPSK | 1@0 | see graph | PASS |
| 48 | 15 | 50 | 638334 | 3575.01 | CP-OFDM QPSK | 1@269 | see graph | PASS |
| 48 | 15 | 50 | 638334 | 3575.01 | CP-OFDM QPSK | 270@0 | see graph | PASS |
| 48 | 15 | 50 | 641666 | 3624.99 | CP-OFDM QPSK | 1@0 | see graph | PASS |
| 48 | 15 | 50 | 641666 | 3624.99 | CP-OFDM QPSK | 1@269 | see graph | PASS |
| 48 | 15 | 50 | 641666 | 3624.99 | CP-OFDM QPSK | 270@0 | see graph | PASS |
| 48 | 15 | 50 | 645000 | 3675.0 | CP-OFDM QPSK | 1@0 | see graph | PASS |
| 48 | 15 | 50 | 645000 | 3675.0 | CP-OFDM QPSK | 1@269 | see graph | PASS |
| 48 | 15 | 50 | 645000 | 3675.0 | CP-OFDM QPSK | 270@0 | see graph | PASS |



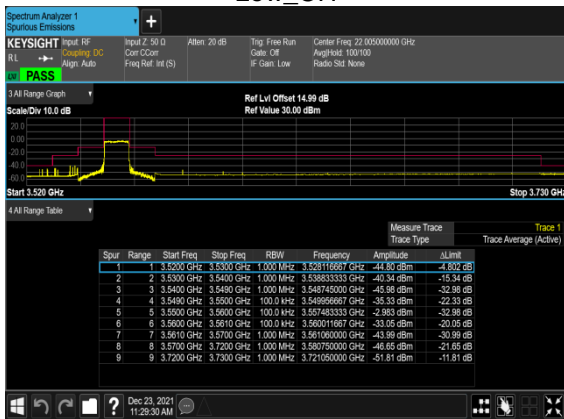
N48(10M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



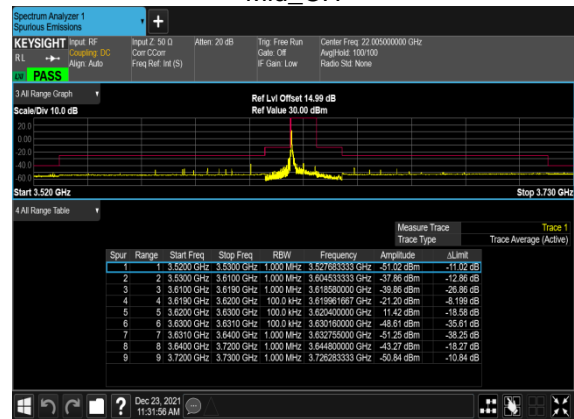
N48(10M)_CP-OFDM_QPSK_Edge_1RB_Right_Low_CH



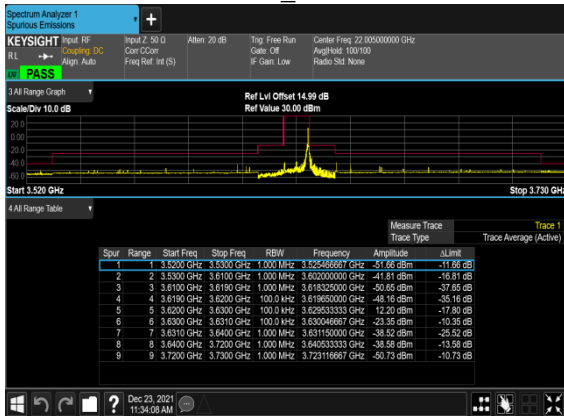
N48(10M)_CP-OFDM_QPSK_Outer_Full_Low_CH



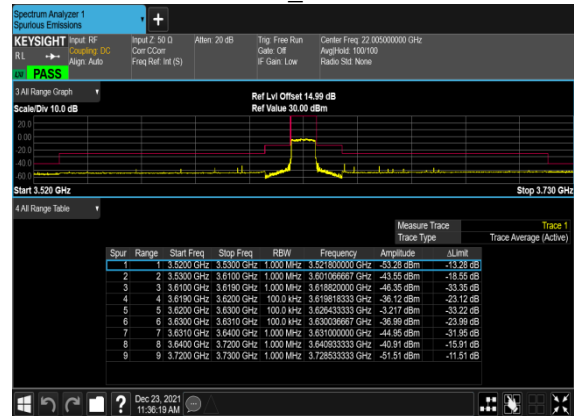
N48(10M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(10M)_CP-OFDM_QPSK_Edge_1RB_Right_Mid_CH

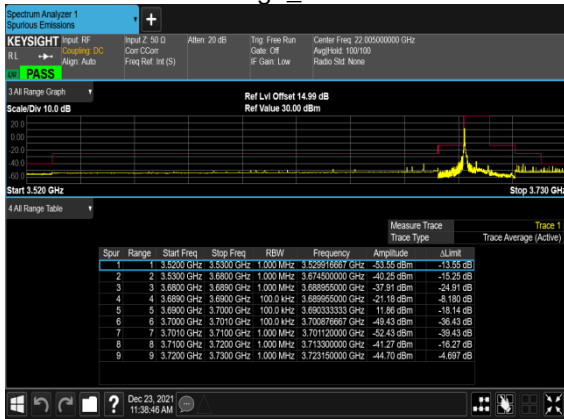


N48(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

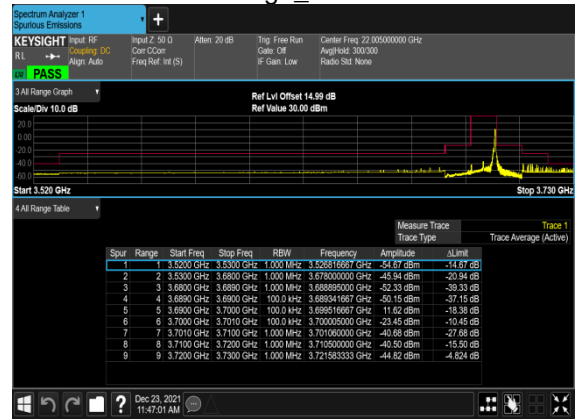




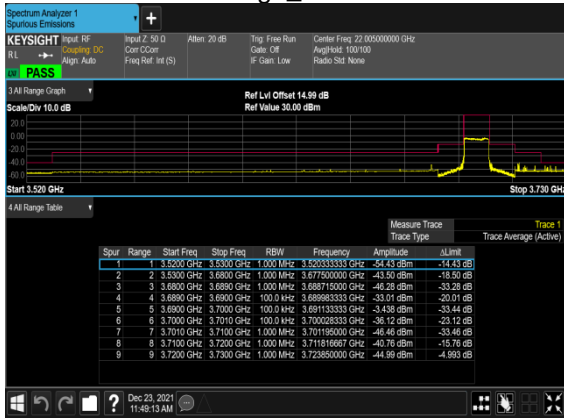
N48(10M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



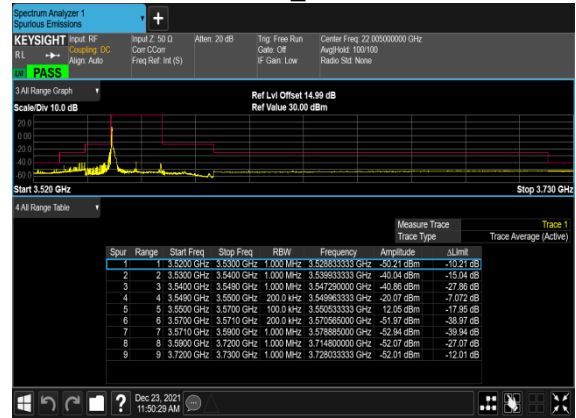
N48(10M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH



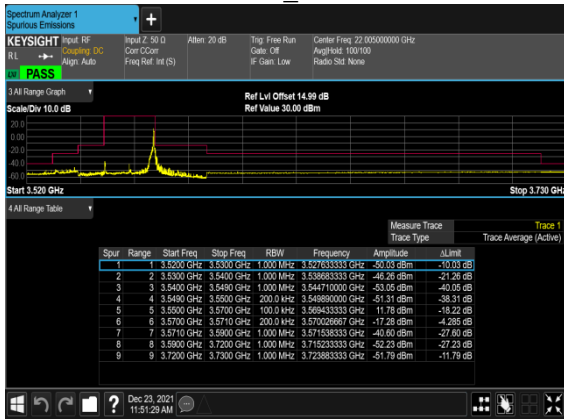
N48(10M)_CP-OFDM_QPSK_Outer_Full_High_CH



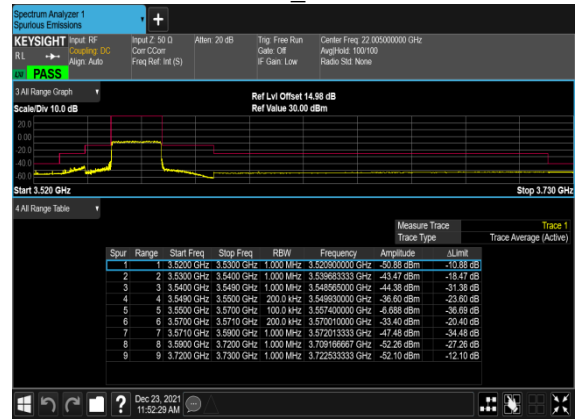
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



N48(20M)_CP-OFDM_QPSK_Edge_1RB_Right_Low_CH

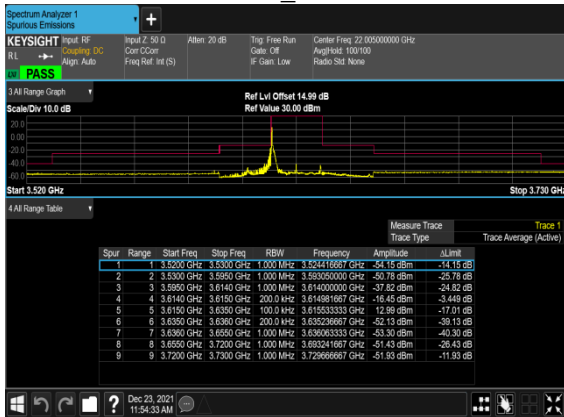


N48(20M)_CP-OFDM_QPSK_Outer_Full_Low_CH





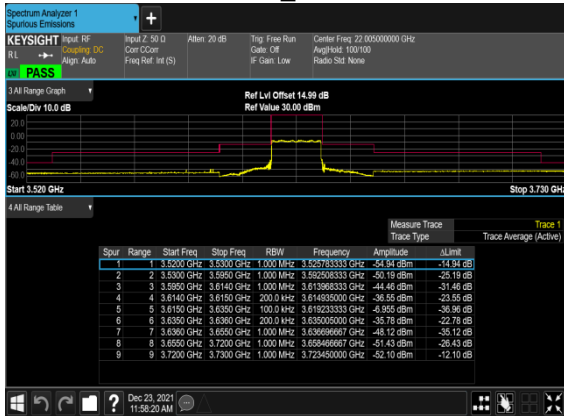
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



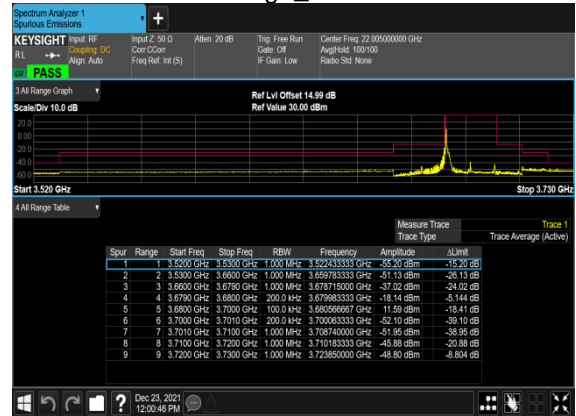
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Right_Mid_CH



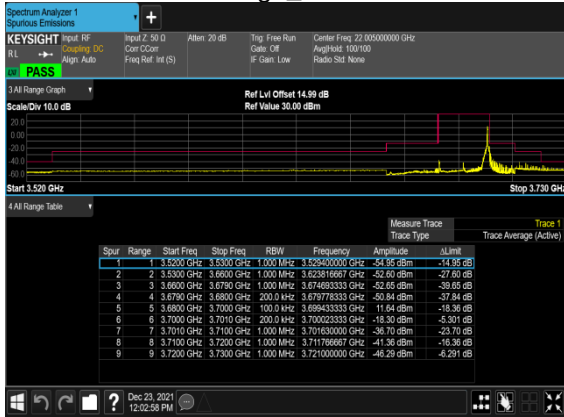
N48(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



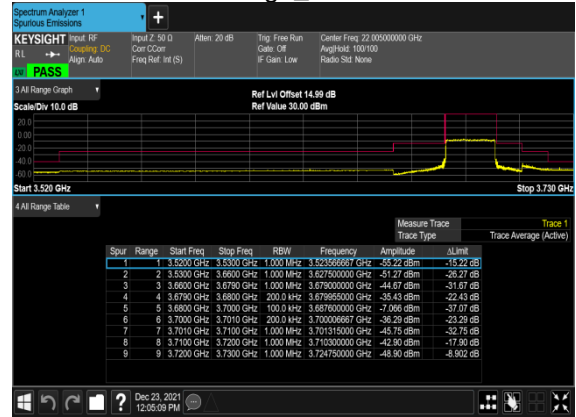
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



N48(20M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH



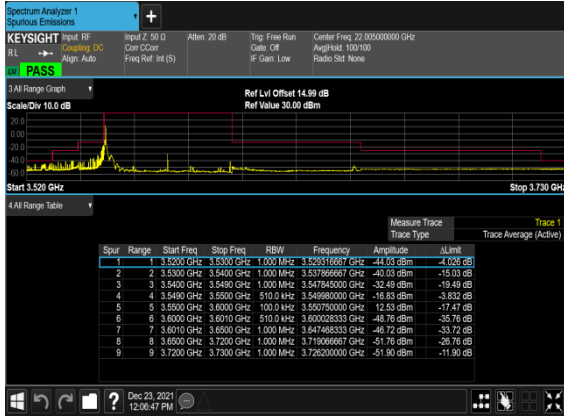
N48(20M)_CP-OFDM_QPSK_Outer_Full_High_CH





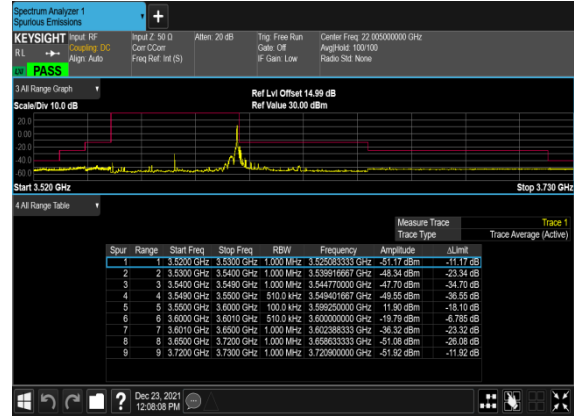
N48(50M)_CP-OFDM_QPSK_Edge_1RB_Left_

Low_CH



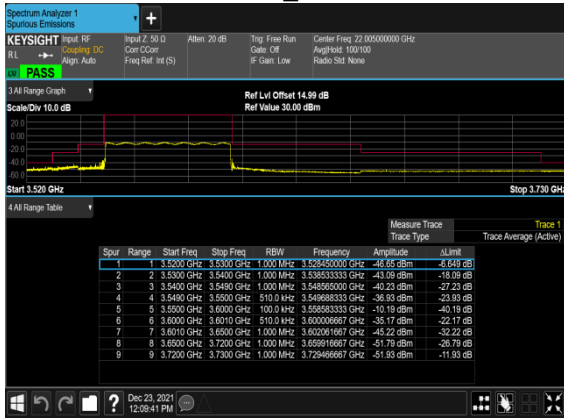
N48(50M)_CP-OFDM_QPSK_Edge_1RB_Right_

Low_CH



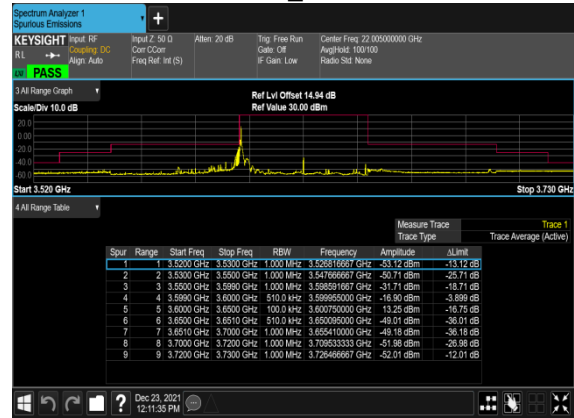
N48(50M)_CP-OFDM_QPSK_Outer_Full_

Low_CH



N48(50M)_CP-OFDM_QPSK_Edge_1RB_Left_

Mid_CH



N48(50M)_CP-OFDM_QPSK_Edge_1RB_Right_

Mid_CH



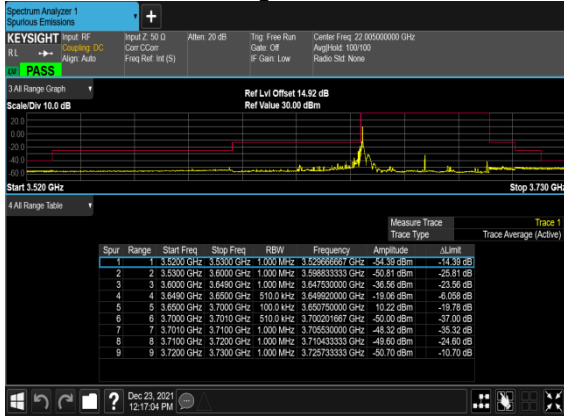
N48(50M)_CP-OFDM_QPSK_Outer_Full_

Mid_CH

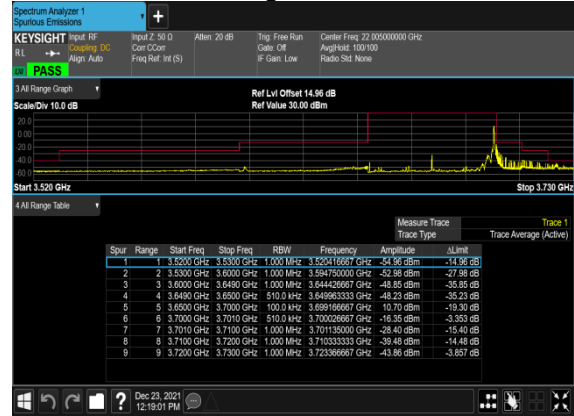




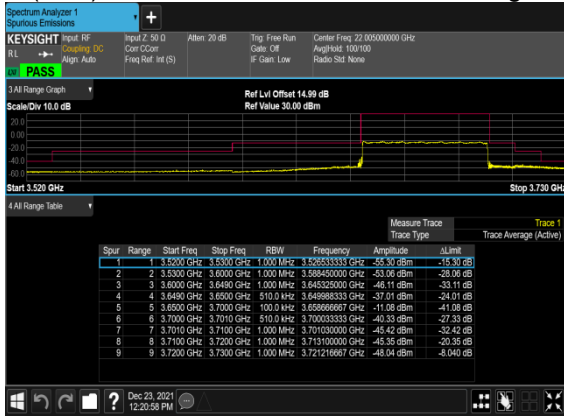
N48(50M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



N48(50M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH



N48(50M)_CP-OFDM_QPSK_Outer_Full_High_CH





A6. FR1 N48 MIMO-ANT5 – SCS 30kHz

A6.1 Frequency Stability

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn | Freq (MHz) | Modulation | RB | Deviation (ppm) | Verdict | Environment |
|---------|-----------|-----------------|--------|------------|--------------|------|-----------------|---------|-------------|
| 48 | 30 | 20 | 641666 | 3624.99 | CP-OFDM QPSK | 51@0 | 0.0398 | PASS | NV |
| 48 | 30 | 20 | 641666 | 3624.99 | CP-OFDM QPSK | 51@0 | 0.0479 | PASS | LV |
| 48 | 30 | 20 | 641666 | 3624.99 | CP-OFDM QPSK | 51@0 | 0.0478 | PASS | HV |
| 48 | 30 | 20 | 641666 | 3624.99 | CP-OFDM QPSK | 51@0 | 0.0514 | PASS | -30°C |
| 48 | 30 | 20 | 641666 | 3624.99 | CP-OFDM QPSK | 51@0 | 0.0564 | PASS | -20°C |
| 48 | 30 | 20 | 641666 | 3624.99 | CP-OFDM QPSK | 51@0 | 0.0054 | PASS | -10°C |
| 48 | 30 | 20 | 641666 | 3624.99 | CP-OFDM QPSK | 51@0 | 0.0694 | PASS | 0°C |
| 48 | 30 | 20 | 641666 | 3624.99 | CP-OFDM QPSK | 51@0 | 0.0499 | PASS | 10°C |
| 48 | 30 | 20 | 641666 | 3624.99 | CP-OFDM QPSK | 51@0 | 0.0279 | PASS | 20°C |
| 48 | 30 | 20 | 641666 | 3624.99 | CP-OFDM QPSK | 51@0 | 0.0673 | PASS | 30°C |
| 48 | 30 | 20 | 641666 | 3624.99 | CP-OFDM QPSK | 51@0 | 0.0386 | PASS | 40°C |
| 48 | 30 | 20 | 641666 | 3624.99 | CP-OFDM QPSK | 51@0 | 0.0646 | PASS | 50°C |

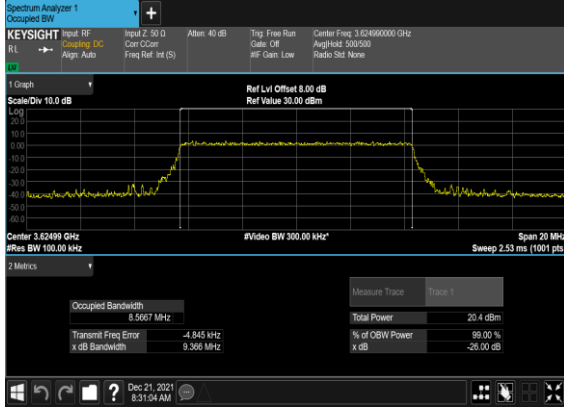


A6.2 Occupied Bandwidth

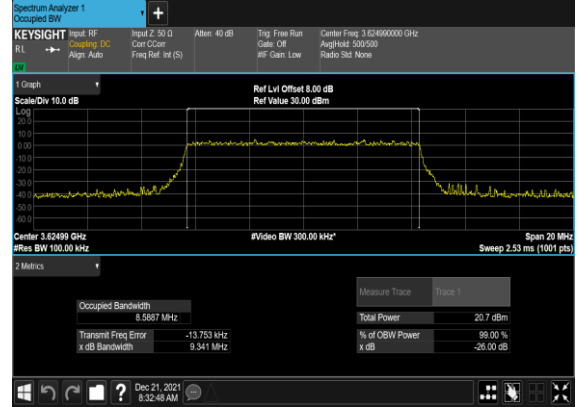
| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn | Freq (MHz) | Modulation | RB | OBW (MHz) | 26dB OBW (MHz) |
|---------|-----------|-----------------|--------|------------|-----------------|-------|-----------|----------------|
| 48 | 30 | 10 | 641666 | 3624.99 | CP-OFDM QPSK | 24@0 | 8.5667 | 9.366 |
| 48 | 30 | 10 | 641666 | 3624.99 | CP-OFDM 16 QAM | 24@0 | 8.5887 | 9.341 |
| 48 | 30 | 10 | 641666 | 3624.99 | CP-OFDM 64 QAM | 24@0 | 8.5711 | 9.423 |
| 48 | 30 | 10 | 641666 | 3624.99 | CP-OFDM 256 QAM | 24@0 | 8.5873 | 9.318 |
| 48 | 30 | 15 | 641666 | 3624.99 | CP-OFDM QPSK | 38@0 | 13.567 | 14.57 |
| 48 | 30 | 15 | 641666 | 3624.99 | CP-OFDM 16 QAM | 38@0 | 13.55 | 14.45 |
| 48 | 30 | 15 | 641666 | 3624.99 | CP-OFDM 64 QAM | 38@0 | 13.569 | 14.58 |
| 48 | 30 | 15 | 641666 | 3624.99 | CP-OFDM 256 QAM | 38@0 | 13.541 | 14.32 |
| 48 | 30 | 20 | 641666 | 3624.99 | CP-OFDM QPSK | 51@0 | 18.195 | 19.31 |
| 48 | 30 | 20 | 641666 | 3624.99 | CP-OFDM 16 QAM | 51@0 | 18.165 | 19.45 |
| 48 | 30 | 20 | 641666 | 3624.99 | CP-OFDM 64 QAM | 51@0 | 18.182 | 19.22 |
| 48 | 30 | 20 | 641666 | 3624.99 | CP-OFDM 256 QAM | 51@0 | 18.232 | 19.2 |
| 48 | 30 | 40 | 641666 | 3624.99 | CP-OFDM QPSK | 106@0 | 37.81 | 39.48 |
| 48 | 30 | 40 | 641666 | 3624.99 | CP-OFDM 16 QAM | 106@0 | 37.816 | 39.35 |
| 48 | 30 | 40 | 641666 | 3624.99 | CP-OFDM 64 QAM | 106@0 | 37.811 | 39.47 |
| 48 | 30 | 40 | 641666 | 3624.99 | CP-OFDM 256 QAM | 106@0 | 37.846 | 39.62 |
| 48 | 30 | 50 | 641666 | 3624.99 | CP-OFDM QPSK | 133@0 | 47.481 | 49.31 |
| 48 | 30 | 50 | 641666 | 3624.99 | CP-OFDM 16 QAM | 133@0 | 47.496 | 49.4 |
| 48 | 30 | 50 | 641666 | 3624.99 | CP-OFDM 64 QAM | 133@0 | 47.425 | 49.31 |
| 48 | 30 | 50 | 641666 | 3624.99 | CP-OFDM 256 QAM | 133@0 | 47.442 | 49.5 |
| 48 | 30 | 60 | 641666 | 3624.99 | CP-OFDM QPSK | 162@0 | 57.774 | 59.78 |
| 48 | 30 | 60 | 641666 | 3624.99 | CP-OFDM 16 QAM | 162@0 | 57.846 | 59.78 |
| 48 | 30 | 60 | 641666 | 3624.99 | CP-OFDM 64 QAM | 162@0 | 57.813 | 59.86 |
| 48 | 30 | 60 | 641666 | 3624.99 | CP-OFDM 256 QAM | 162@0 | 57.753 | 59.83 |
| 48 | 30 | 80 | 641666 | 3624.99 | CP-OFDM QPSK | 217@0 | 77.566 | 80.12 |
| 48 | 30 | 80 | 641666 | 3624.99 | CP-OFDM 16 QAM | 217@0 | 77.41 | 80.19 |
| 48 | 30 | 80 | 641666 | 3624.99 | CP-OFDM 64 QAM | 217@0 | 77.351 | 81.03 |
| 48 | 30 | 80 | 641666 | 3624.99 | CP-OFDM 256 QAM | 217@0 | 77.445 | 80.1 |
| 48 | 30 | 100 | 641666 | 3624.99 | CP-OFDM QPSK | 273@0 | 97.305 | 100.5 |
| 48 | 30 | 100 | 641666 | 3624.99 | CP-OFDM 16 QAM | 273@0 | 97.151 | 101.3 |
| 48 | 30 | 100 | 641666 | 3624.99 | CP-OFDM 64 QAM | 273@0 | 97.277 | 100.6 |
| 48 | 30 | 100 | 641666 | 3624.99 | CP-OFDM 256 QAM | 273@0 | 97.353 | 100.6 |



N48(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



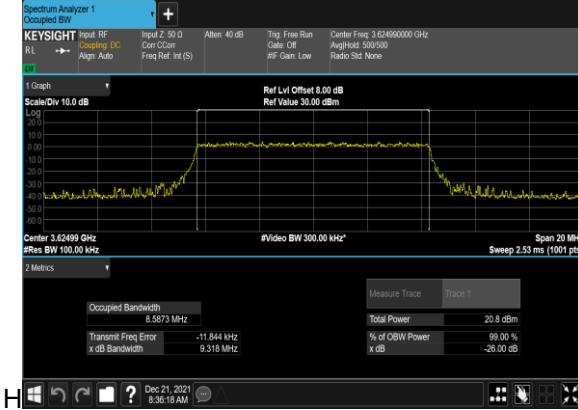
N48(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



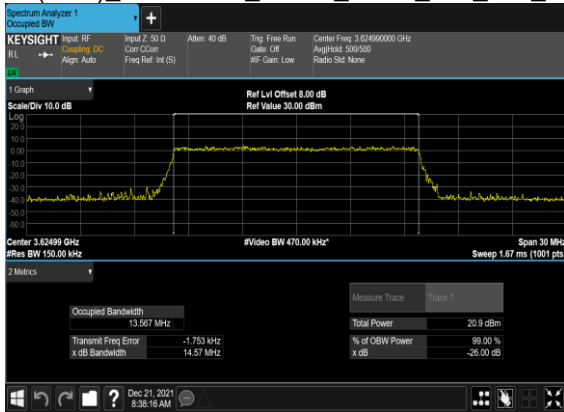
N48(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



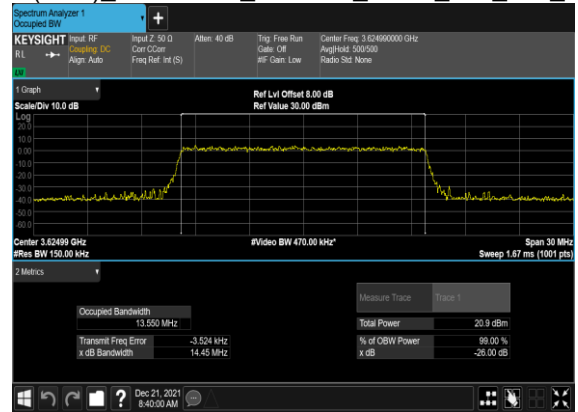
N48(10M)_CP-OFDM_256QAM_Outer_Full_Mid_C



N48(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

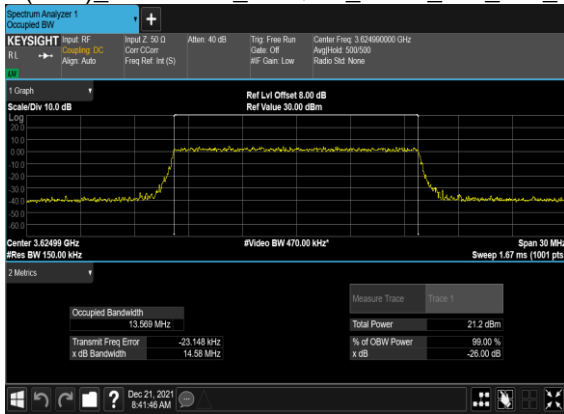


N48(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

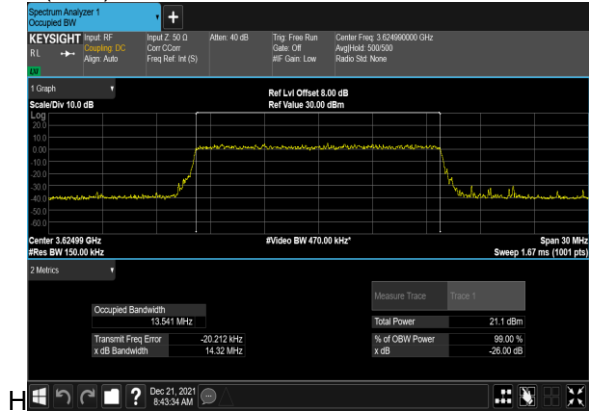




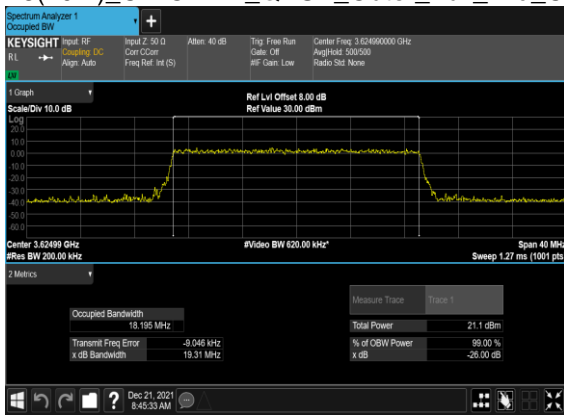
N48(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



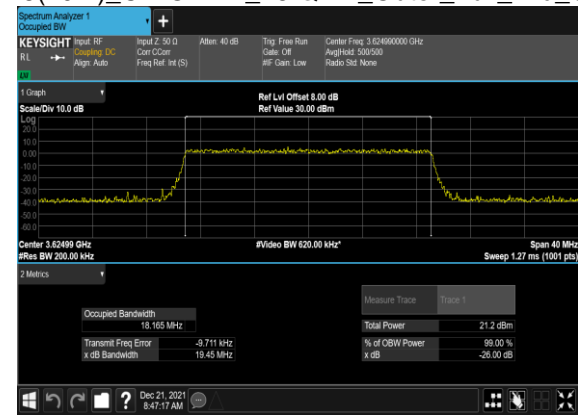
N48(15M)_CP-OFDM_256QAM_Outer_Full_Mid_C



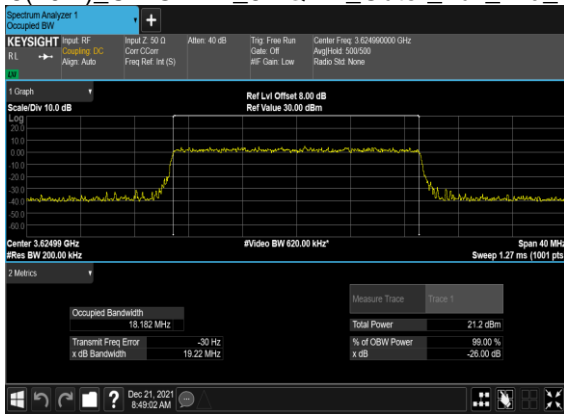
N48(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



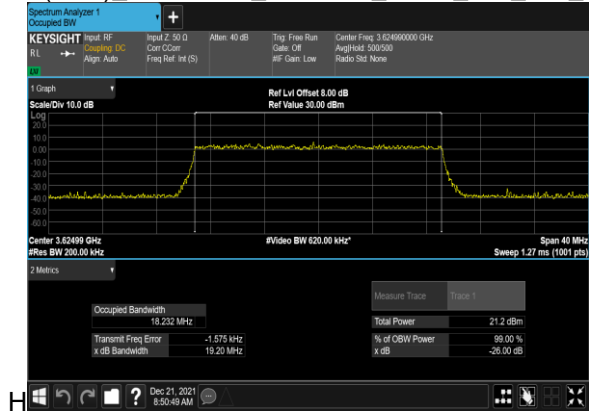
N48(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N48(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

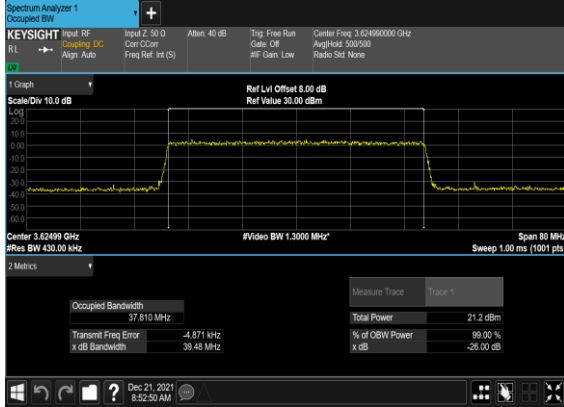


N48(20M)_CP-OFDM_256QAM_Outer_Full_Mid_C

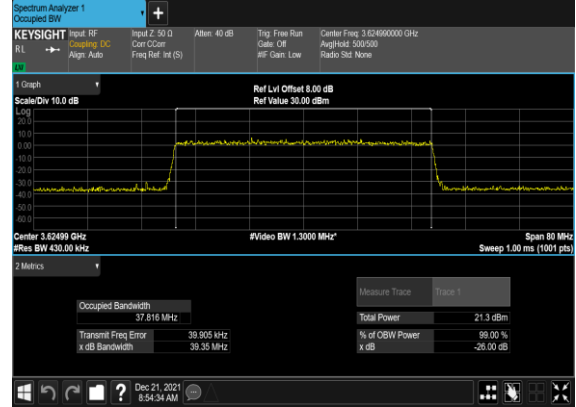




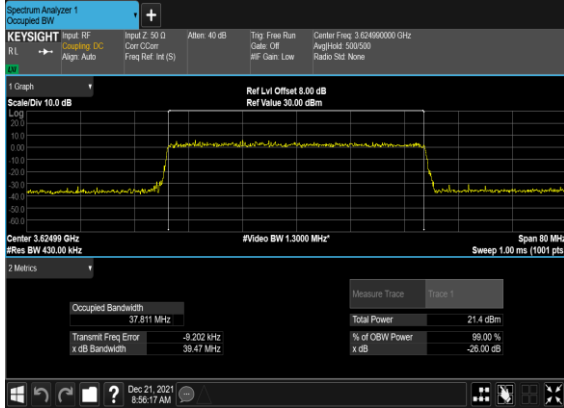
N48(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



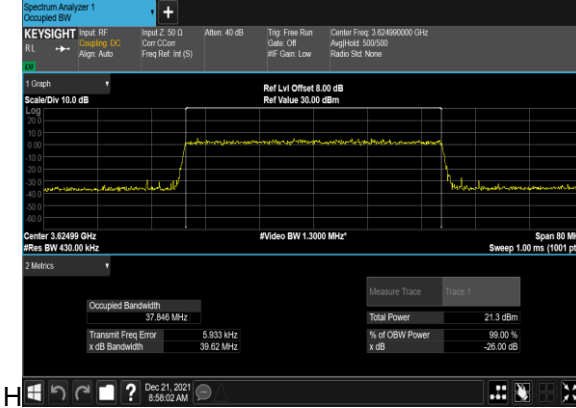
N48(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



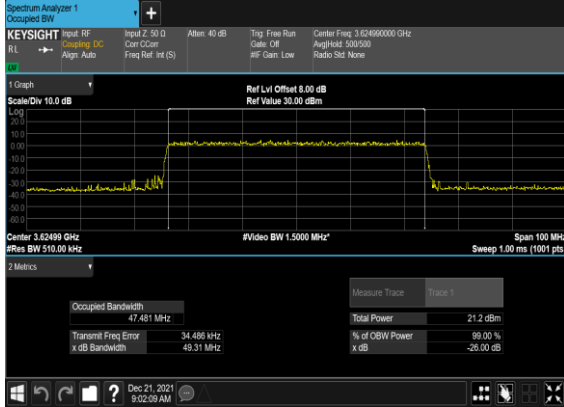
N48(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



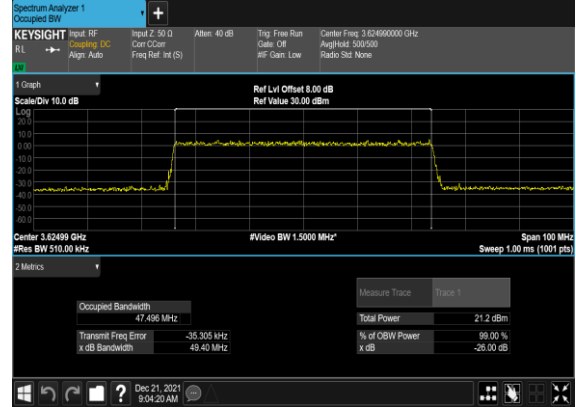
N48(40M)_CP-OFDM_256QAM_Outer_Full_Mid_C



N48(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

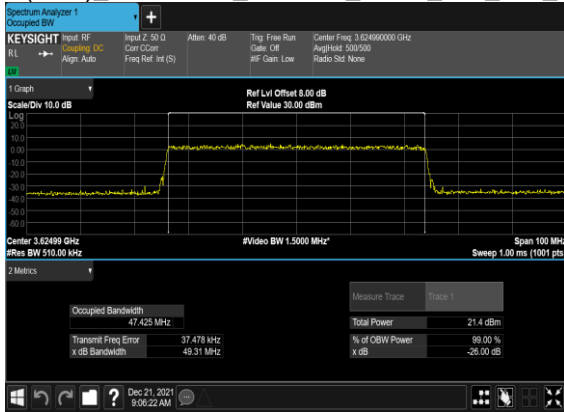


N48(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

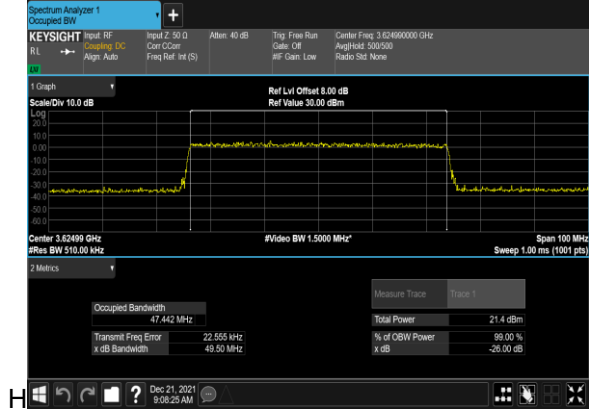




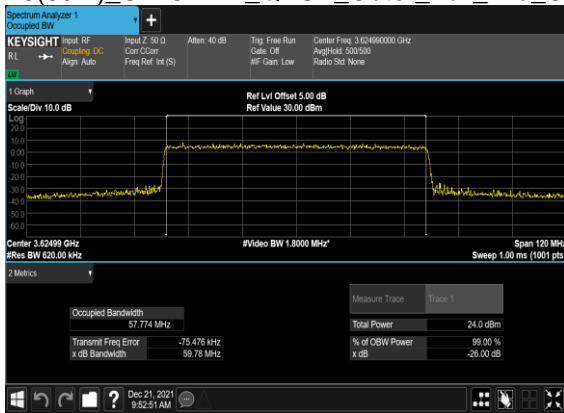
N48(50M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



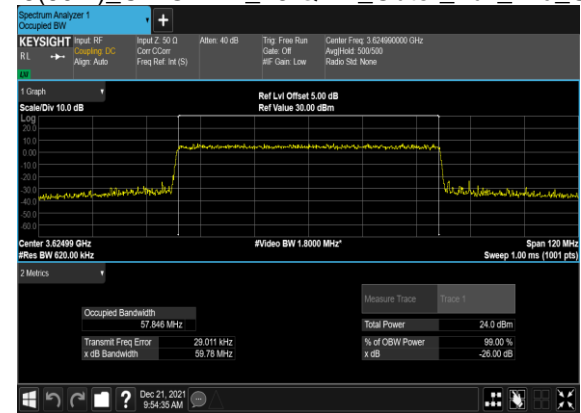
N48(50M)_CP-OFDM_256QAM_Outer_Full_Mid_C



N48(60M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



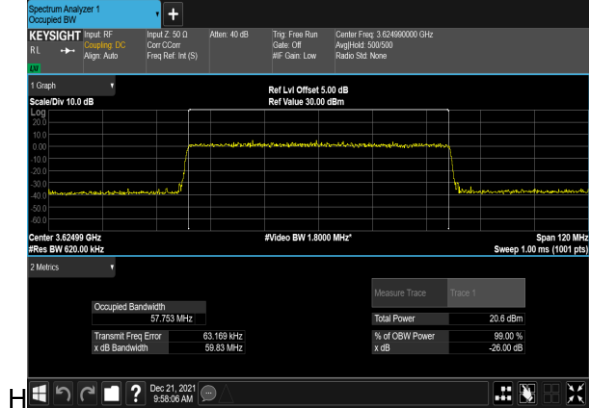
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N48(60M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

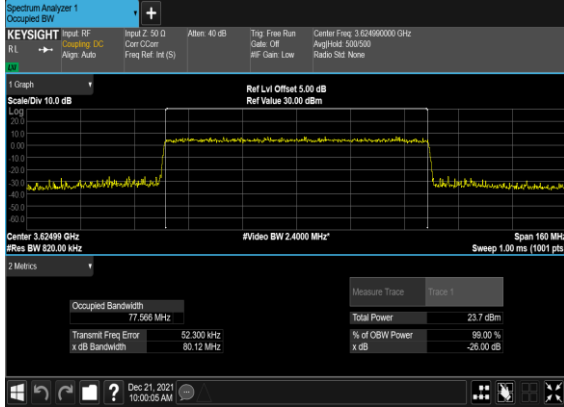


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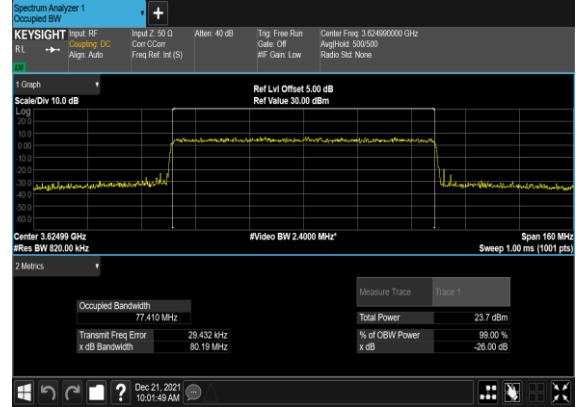




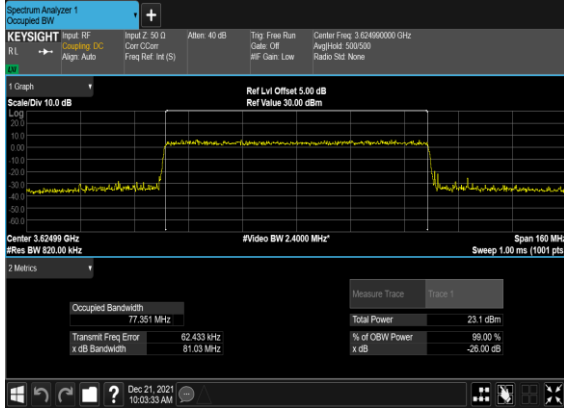
N48(80M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



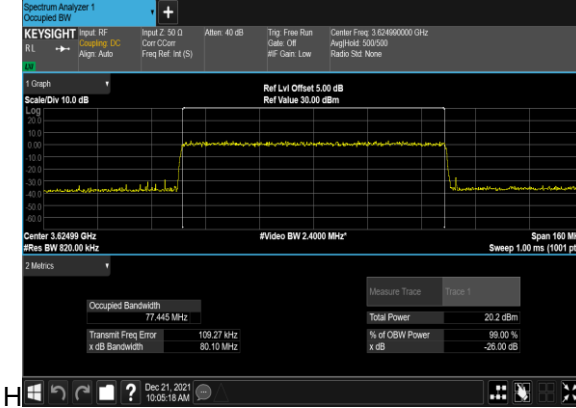
N48(80M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



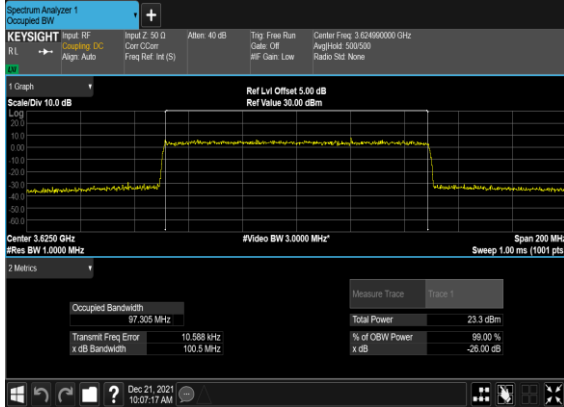
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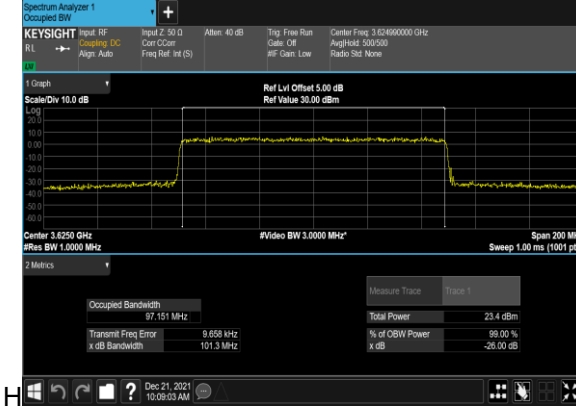
N48(80M)_CP-OFDM_256QAM_Outer_Full_Mid_C



N48(100M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

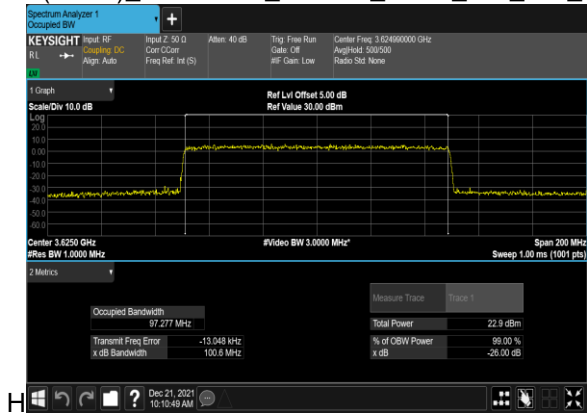


N48(100M)_CP-OFDM_16QAM_Outer_Full_Mid_C

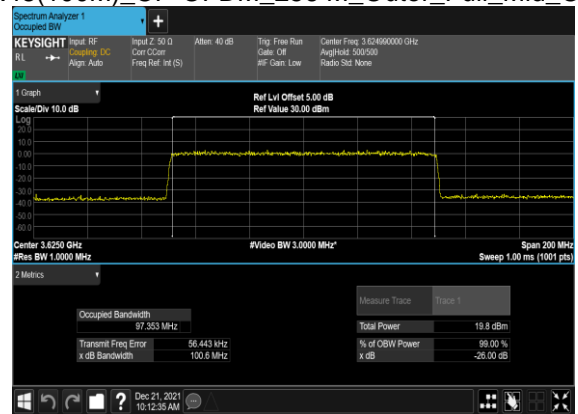




N48(100M)_CP-OFDM_64QAM_Outer_Full_Mid_C



N48(100M)_CP-OFDM_256 M_Outer_Full_Mid_CH





A6.3 Adjacent Channel Leakage Ratio

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn | Freq (MHz) | Modulation | RB | Lower Margin | Upper Margin | Result | Verdict |
|---------|-----------|-----------------|--------|------------|--------------|-------|--------------|--------------|-----------|---------|
| 48 | 30 | 10 | 637000 | 3555.0 | CP-OFDM QPSK | 24@0 | -15.93 | -16.03 | see graph | PASS |
| 48 | 30 | 10 | 637000 | 3555.0 | CP-OFDM QPSK | 1@0 | -12.58 | -18.56 | see graph | PASS |
| 48 | 30 | 10 | 637000 | 3555.0 | CP-OFDM QPSK | 1@23 | -18.48 | -13.24 | see graph | PASS |
| 48 | 30 | 10 | 641666 | 3624.99 | CP-OFDM QPSK | 24@0 | -14.84 | -14.94 | see graph | PASS |
| 48 | 30 | 10 | 641666 | 3624.99 | CP-OFDM QPSK | 1@0 | -11.92 | -15.26 | see graph | PASS |
| 48 | 30 | 10 | 641666 | 3624.99 | CP-OFDM QPSK | 1@23 | -15.63 | -10.8 | see graph | PASS |
| 48 | 30 | 10 | 646332 | 3694.98 | CP-OFDM QPSK | 24@0 | -14.45 | -14.66 | see graph | PASS |
| 48 | 30 | 10 | 646332 | 3694.98 | CP-OFDM QPSK | 1@0 | -11.62 | -16.1 | see graph | PASS |
| 48 | 30 | 10 | 646332 | 3694.98 | CP-OFDM QPSK | 1@23 | -16.5 | -12.58 | see graph | PASS |
| 48 | 30 | 50 | 638334 | 3575.01 | CP-OFDM QPSK | 133@0 | -10.86 | -10.28 | see graph | PASS |
| 48 | 30 | 50 | 638334 | 3575.01 | CP-OFDM QPSK | 1@0 | -8.21 | -10.5 | see graph | PASS |
| 48 | 30 | 50 | 638334 | 3575.01 | CP-OFDM QPSK | 1@132 | -11.46 | -8.43 | see graph | PASS |
| 48 | 30 | 50 | 641666 | 3624.99 | CP-OFDM QPSK | 133@0 | -10.62 | -9.88 | see graph | PASS |
| 48 | 30 | 50 | 641666 | 3624.99 | CP-OFDM QPSK | 1@0 | -7.52 | -9.83 | see graph | PASS |
| 48 | 30 | 50 | 641666 | 3624.99 | CP-OFDM QPSK | 1@132 | -11.17 | -7.95 | see graph | PASS |
| 48 | 30 | 50 | 645000 | 3675.0 | CP-OFDM QPSK | 133@0 | -10.43 | -9.71 | see graph | PASS |
| 48 | 30 | 50 | 645000 | 3675.0 | CP-OFDM QPSK | 1@0 | -6.97 | -8.77 | see graph | PASS |
| 48 | 30 | 50 | 645000 | 3675.0 | CP-OFDM QPSK | 1@132 | -5.97 | -3.13 | see graph | PASS |
| 48 | 30 | 100 | 640000 | 3600.0 | CP-OFDM QPSK | 273@0 | -9.73 | -7.22 | see graph | PASS |
| 48 | 30 | 100 | 640000 | 3600.0 | CP-OFDM QPSK | 1@0 | -7.43 | -6.74 | see graph | PASS |
| 48 | 30 | 100 | 640000 | 3600.0 | CP-OFDM QPSK | 1@272 | -10.11 | -6.03 | see graph | PASS |
| 48 | 30 | 100 | 641666 | 3624.99 | CP-OFDM QPSK | 273@0 | -9.6 | -6.96 | see graph | PASS |
| 48 | 30 | 100 | 641666 | 3624.99 | CP-OFDM QPSK | 1@0 | -7.74 | -6.52 | see graph | PASS |
| 48 | 30 | 100 | 641666 | 3624.99 | CP-OFDM QPSK | 1@272 | -9.55 | -5.31 | see graph | PASS |
| 48 | 30 | 100 | 643332 | 3649.98 | CP-OFDM QPSK | 273@0 | -9.69 | -6.77 | see graph | PASS |
| 48 | 30 | 100 | 643332 | 3649.98 | CP-OFDM QPSK | 1@0 | -6.89 | -6.25 | see graph | PASS |
| 48 | 30 | 100 | 643332 | 3649.98 | CP-OFDM QPSK | 1@272 | -9.28 | -5.02 | see graph | PASS |