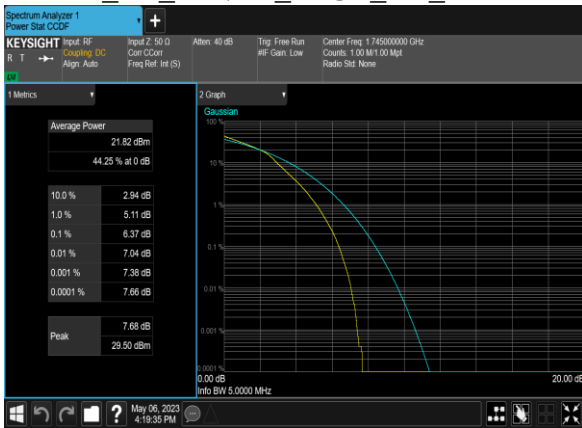


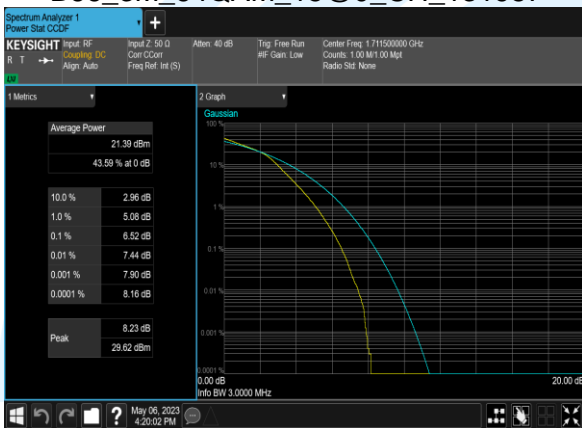
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B66_5M_64QAM_25@0_CH_132647



B66_3M_64QAM_15@0_CH_131987



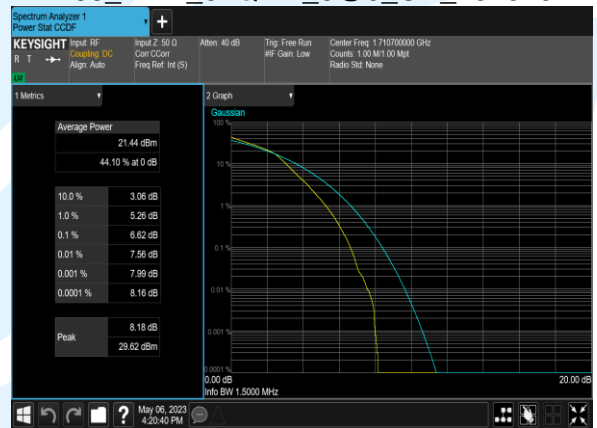
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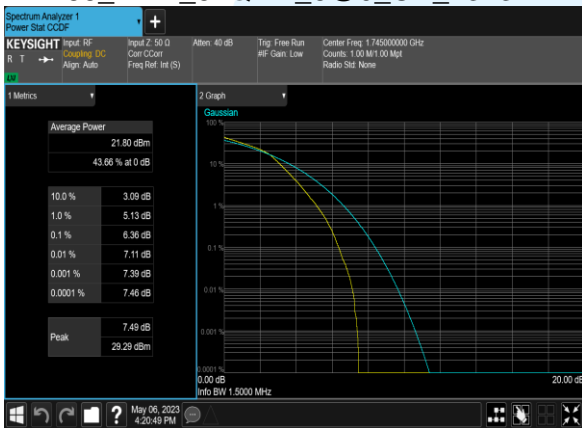
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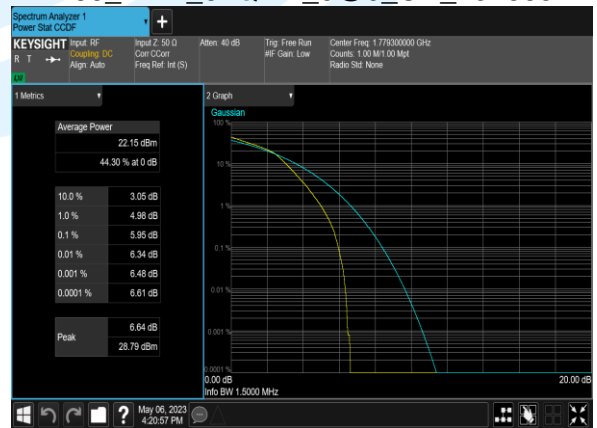
B66_1.4M_64QAM_6@0_CH_131979



B66_1.4M_64QAM_6@0_CH_132322



B66_1.4M_64QAM_6@0_CH_132665



Occupied Bandwidth

| Band | Bandwidth (MHz) | Channel | Freq (MHz) | Modulation | RB | OBW (MHz) | 26dB BW (MHz) |
|------|-----------------|---------|------------|------------|-------|-----------|---------------|
| 66 | 20.0 | 132072 | 1720.0 | QPSK | 100@0 | 17.864 | 19.06 |
| 66 | 20.0 | 132072 | 1720.0 | 16QAM | 100@0 | 17.897 | 18.69 |
| 66 | 20.0 | 132322 | 1745.0 | QPSK | 100@0 | 17.866 | 18.72 |
| 66 | 20.0 | 132322 | 1745.0 | 16QAM | 100@0 | 17.807 | 18.79 |
| 66 | 20.0 | 132572 | 1770.0 | QPSK | 100@0 | 17.872 | 18.70 |
| 66 | 20.0 | 132572 | 1770.0 | 16QAM | 100@0 | 17.909 | 18.72 |
| 66 | 15.0 | 132047 | 1717.5 | QPSK | 75@0 | 13.409 | 14.28 |
| 66 | 15.0 | 132047 | 1717.5 | 16QAM | 75@0 | 13.403 | 14.06 |
| 66 | 15.0 | 132322 | 1745.0 | QPSK | 75@0 | 13.423 | 14.09 |
| 66 | 15.0 | 132322 | 1745.0 | 16QAM | 75@0 | 13.421 | 14.15 |
| 66 | 15.0 | 132597 | 1772.5 | QPSK | 75@0 | 13.378 | 14.18 |
| 66 | 15.0 | 132597 | 1772.5 | 16QAM | 75@0 | 13.404 | 14.07 |
| 66 | 10.0 | 132022 | 1715.0 | QPSK | 50@0 | 8.9511 | 9.377 |
| 66 | 10.0 | 132022 | 1715.0 | 16QAM | 50@0 | 8.9321 | 9.428 |
| 66 | 10.0 | 132322 | 1745.0 | QPSK | 50@0 | 8.9324 | 9.602 |
| 66 | 10.0 | 132322 | 1745.0 | 16QAM | 50@0 | 8.9211 | 9.466 |
| 66 | 10.0 | 132622 | 1775.0 | QPSK | 50@0 | 8.9219 | 9.431 |
| 66 | 10.0 | 132622 | 1775.0 | 16QAM | 50@0 | 8.9233 | 9.470 |
| 66 | 5.0 | 131997 | 1712.5 | QPSK | 25@0 | 4.4575 | 4.778 |
| 66 | 5.0 | 131997 | 1712.5 | 16QAM | 25@0 | 4.4638 | 4.810 |
| 66 | 5.0 | 132322 | 1745.0 | QPSK | 25@0 | 4.4627 | 4.794 |
| 66 | 5.0 | 132322 | 1745.0 | 16QAM | 25@0 | 4.4575 | 4.732 |
| 66 | 5.0 | 132647 | 1777.5 | QPSK | 25@0 | 4.4632 | 4.777 |
| 66 | 5.0 | 132647 | 1777.5 | 16QAM | 25@0 | 4.4548 | 4.821 |
| 66 | 3.0 | 131987 | 1711.5 | QPSK | 15@0 | 2.6760 | 2.889 |
| 66 | 3.0 | 131987 | 1711.5 | 16QAM | 15@0 | 2.6753 | 2.883 |
| 66 | 3.0 | 132322 | 1745.0 | QPSK | 15@0 | 2.6716 | 2.887 |
| 66 | 3.0 | 132322 | 1745.0 | 16QAM | 15@0 | 2.6695 | 2.915 |
| 66 | 3.0 | 132657 | 1778.5 | QPSK | 15@0 | 2.6715 | 2.875 |
| 66 | 3.0 | 132657 | 1778.5 | 16QAM | 15@0 | 2.6724 | 2.893 |
| 66 | 1.4 | 131979 | 1710.7 | QPSK | 6@0 | 1.0799 | 1.238 |
| 66 | 1.4 | 131979 | 1710.7 | 16QAM | 6@0 | 1.0784 | 1.229 |
| 66 | 1.4 | 132322 | 1745.0 | QPSK | 6@0 | 1.0792 | 1.246 |
| 66 | 1.4 | 132322 | 1745.0 | 16QAM | 6@0 | 1.0807 | 1.252 |
| 66 | 1.4 | 132665 | 1779.3 | QPSK | 6@0 | 1.0782 | 1.249 |
| 66 | 1.4 | 132665 | 1779.3 | 16QAM | 6@0 | 1.0748 | 1.215 |

| Band | Bandwidth (MHz) | Channel | Freq (MHz) | Modulation | RB | OBW (MHz) | 26dB BW (MHz) |
|------|-----------------|---------|------------|------------|-------|-----------|---------------|
| 66 | 20.0 | 132072 | 1720.0 | 64QAM | 100@0 | 17.821 | 18.99 |
| 66 | 20.0 | 132322 | 1745.0 | 64QAM | 100@0 | 17.818 | 18.88 |
| 66 | 20.0 | 132572 | 1770.0 | 64QAM | 100@0 | 17.800 | 18.92 |
| 66 | 15.0 | 132047 | 1717.5 | 64QAM | 75@0 | 13.410 | 14.22 |
| 66 | 15.0 | 132322 | 1745.0 | 64QAM | 75@0 | 13.400 | 14.31 |
| 66 | 15.0 | 132597 | 1772.5 | 64QAM | 75@0 | 13.395 | 14.21 |
| 66 | 10.0 | 132022 | 1715.0 | 64QAM | 50@0 | 8.8968 | 9.564 |
| 66 | 10.0 | 132322 | 1745.0 | 64QAM | 50@0 | 8.9357 | 9.457 |
| 66 | 10.0 | 132622 | 1775.0 | 64QAM | 50@0 | 8.9349 | 9.495 |
| 66 | 5.0 | 131997 | 1712.5 | 64QAM | 25@0 | 4.4605 | 4.816 |
| 66 | 5.0 | 132322 | 1745.0 | 64QAM | 25@0 | 4.4602 | 4.767 |
| 66 | 5.0 | 132647 | 1777.5 | 64QAM | 25@0 | 4.4633 | 4.772 |
| 66 | 3.0 | 131987 | 1711.5 | 64QAM | 15@0 | 2.6651 | 2.905 |
| 66 | 3.0 | 132322 | 1745.0 | 64QAM | 15@0 | 2.6735 | 2.883 |
| 66 | 3.0 | 132657 | 1778.5 | 64QAM | 15@0 | 2.6786 | 2.905 |
| 66 | 1.4 | 131979 | 1710.7 | 64QAM | 6@0 | 1.0783 | 1.240 |
| 66 | 1.4 | 132322 | 1745.0 | 64QAM | 6@0 | 1.0784 | 1.253 |
| 66 | 1.4 | 132665 | 1779.3 | 64QAM | 6@0 | 1.0770 | 1.212 |

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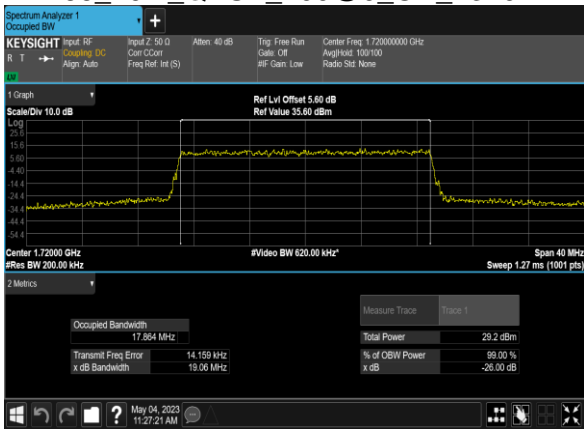
E-mail: info@uttlab.com

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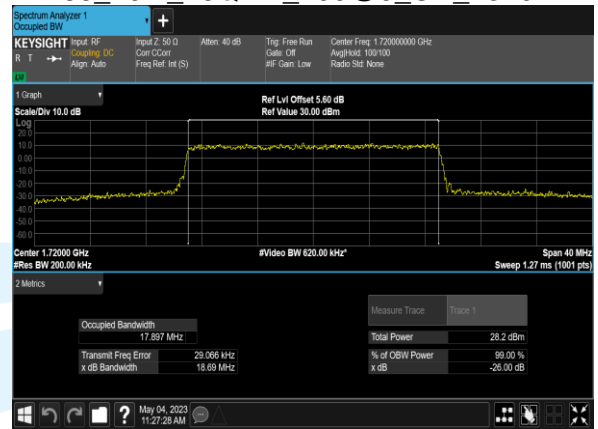
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Test Graphs

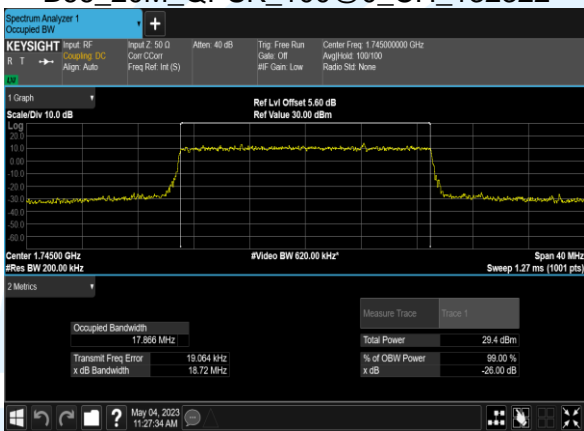
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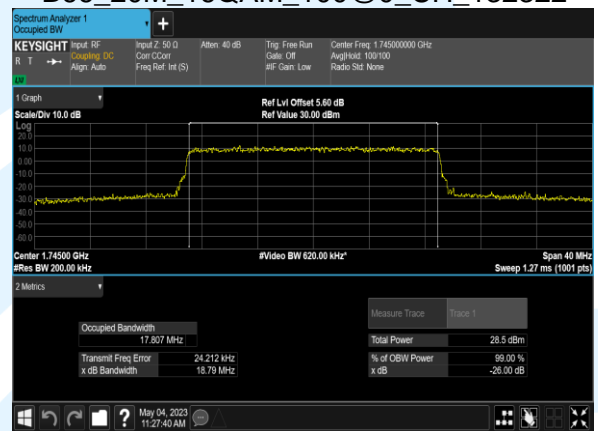
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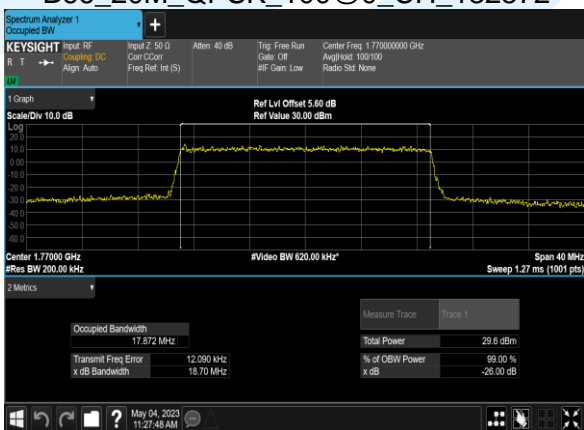
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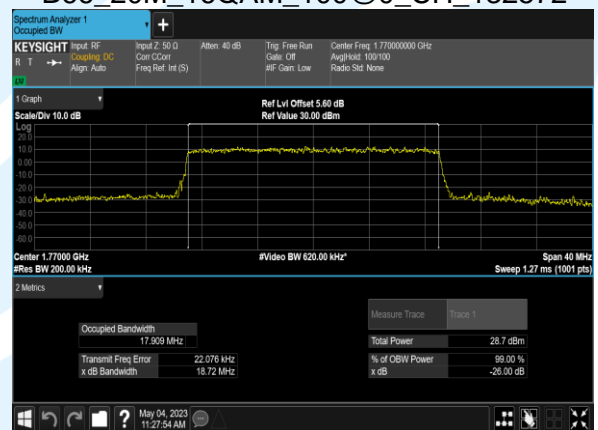
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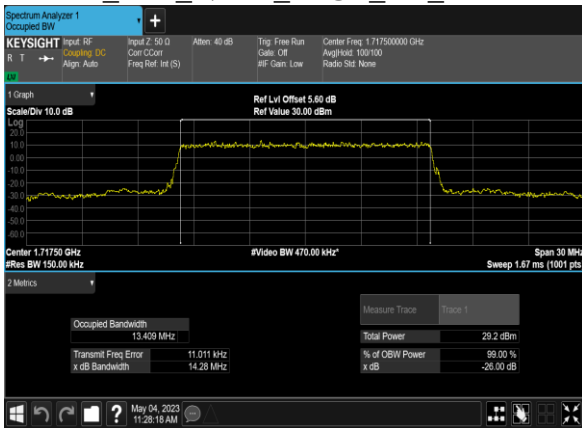
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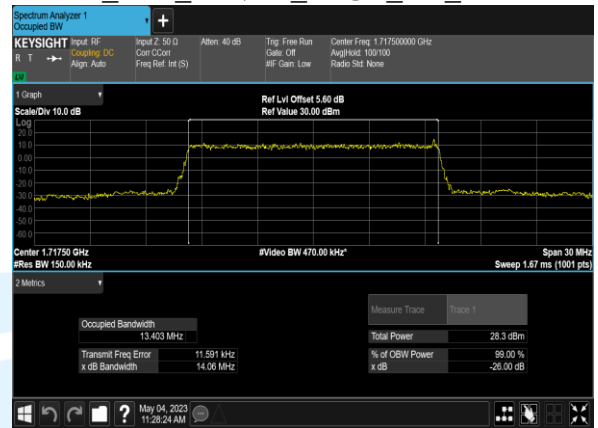
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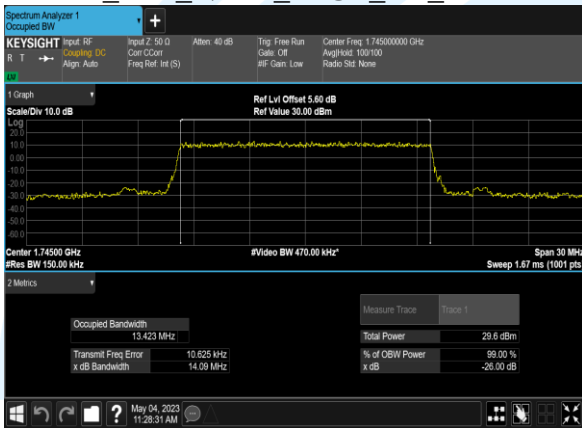
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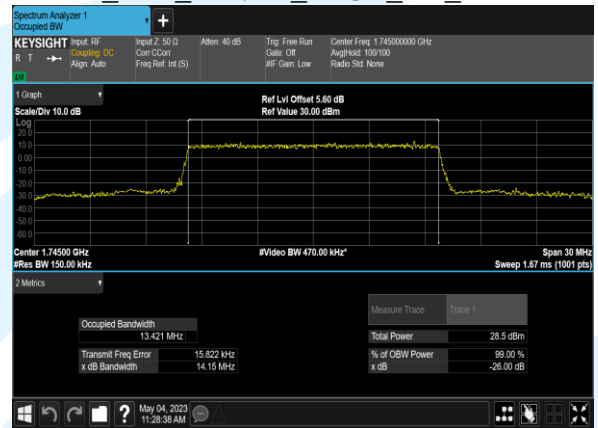
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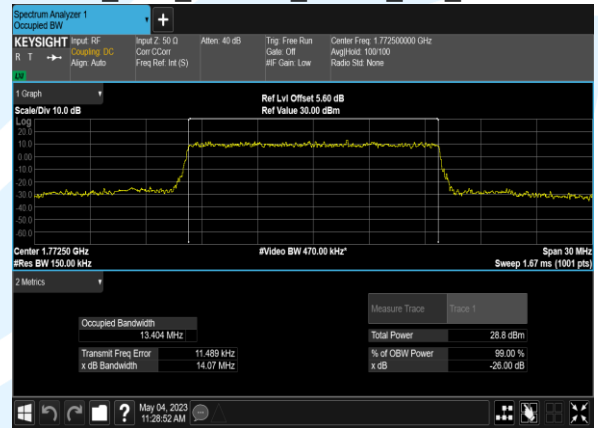
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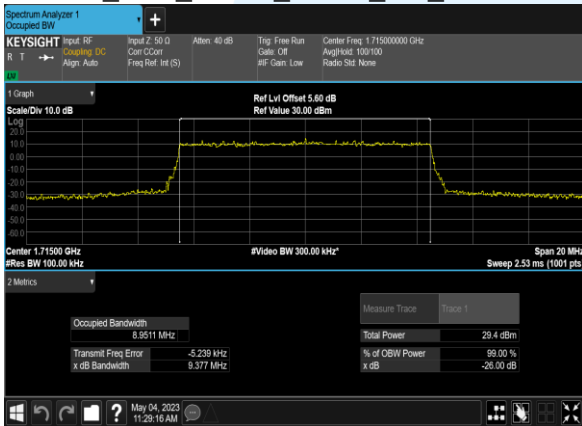
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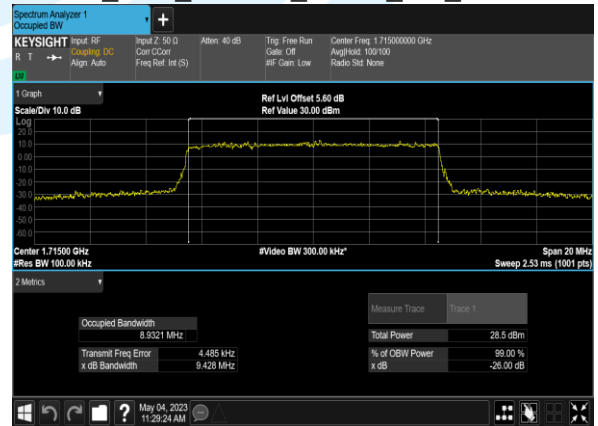
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B66_10M_QPSK_50@0_CH_132022



B66_10M_16QAM_50@0_CH_132022



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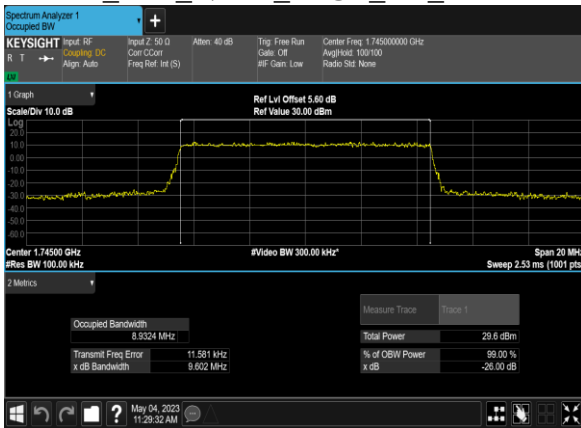
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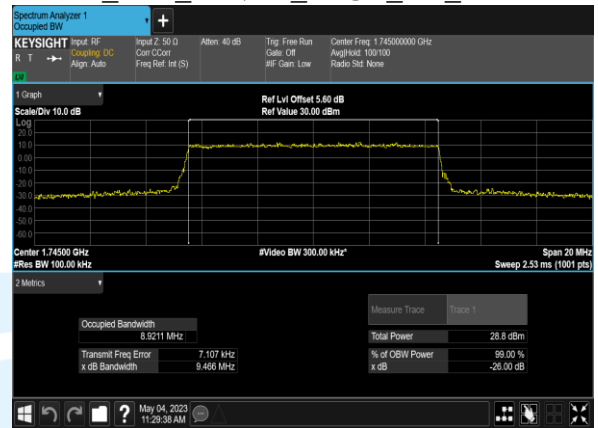
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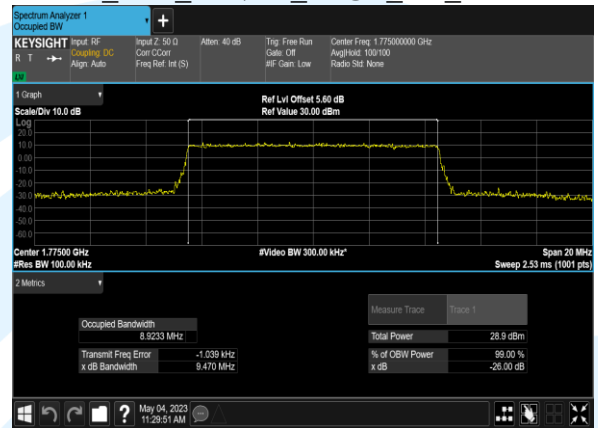
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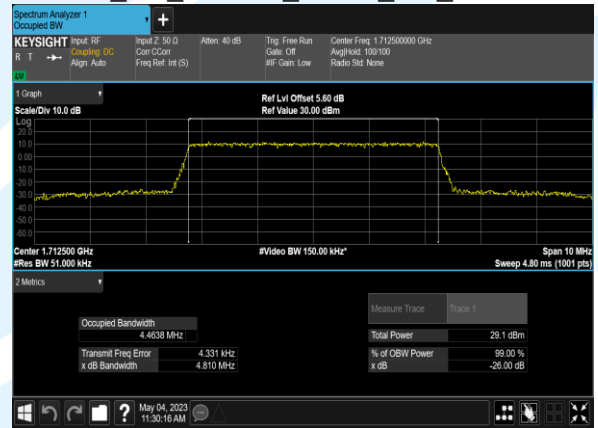
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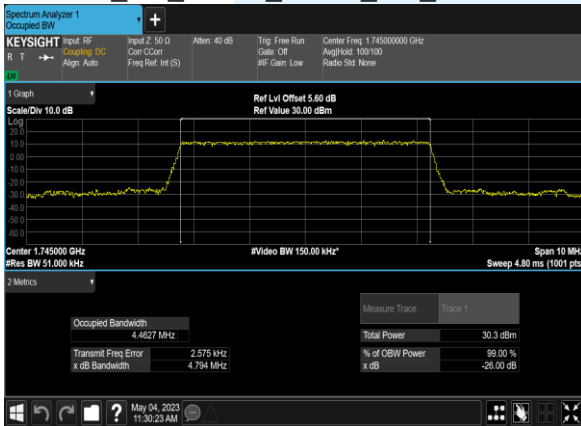
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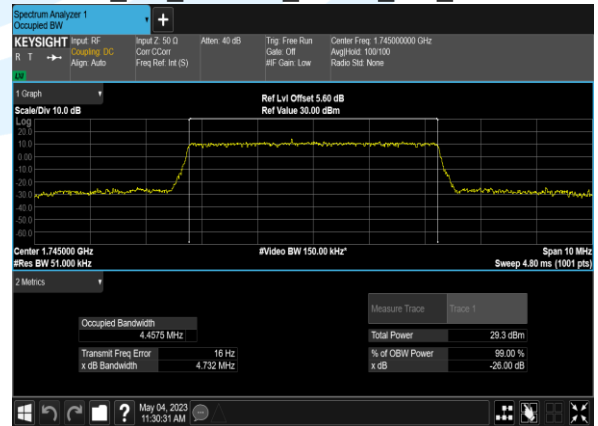
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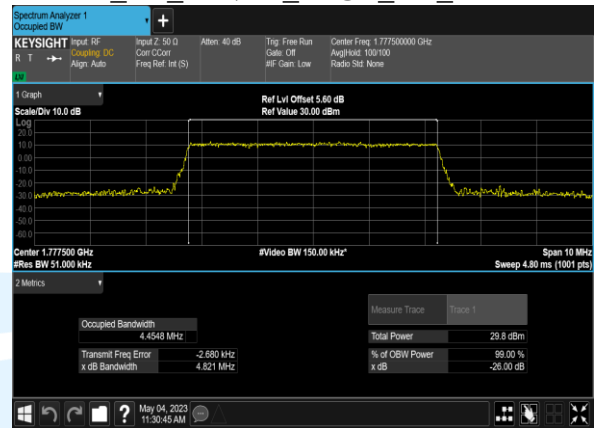
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B66_5M_QPSK_25@0_CH_132647



B66_5M_16QAM_25@0_CH_132647



B66_3M_QPSK_15@0_CH_131987



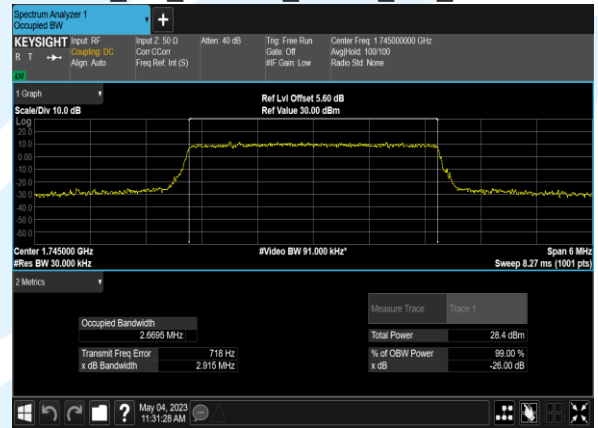
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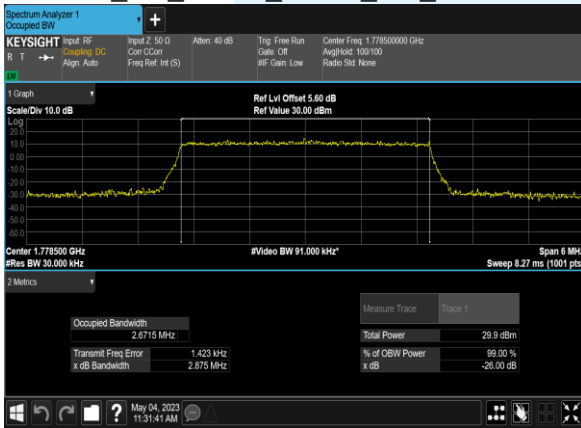
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B66_3M_QPSK_15@0_CH_132657



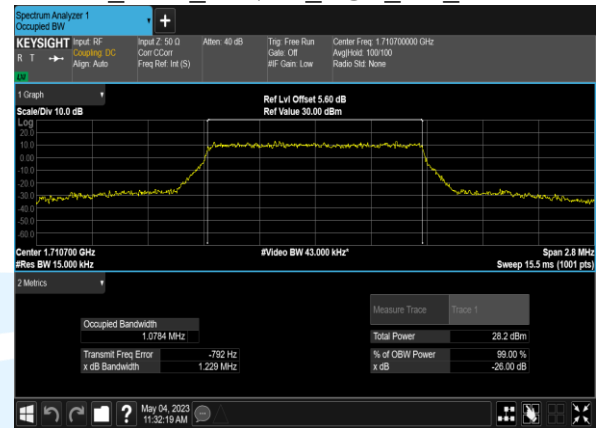
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B66_1.4M_QPSK_6@0_CH_131979



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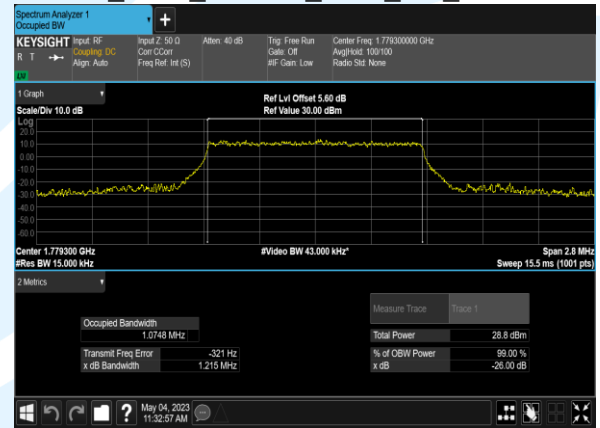
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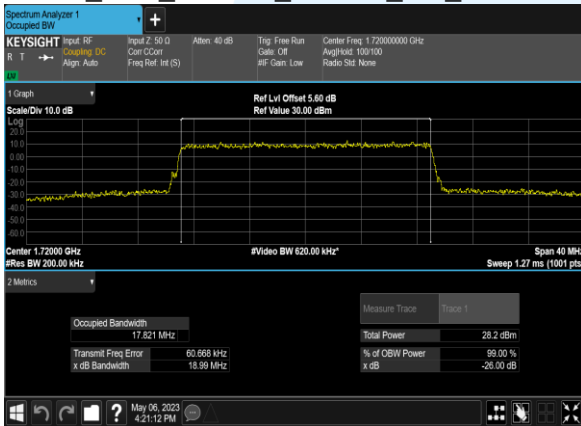
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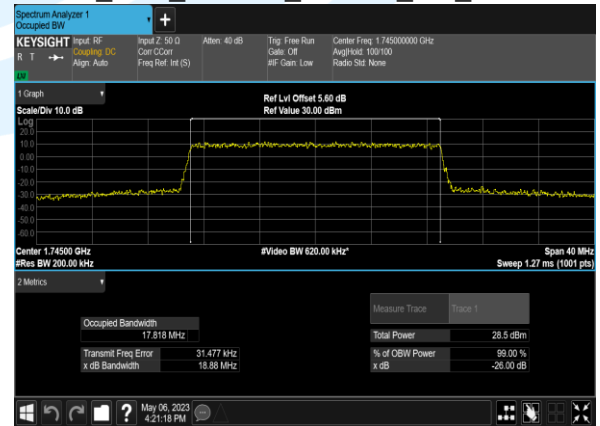
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B66_20M_64QAM_100@0_CH_132072



B66_20M_64QAM_100@0_CH_132322



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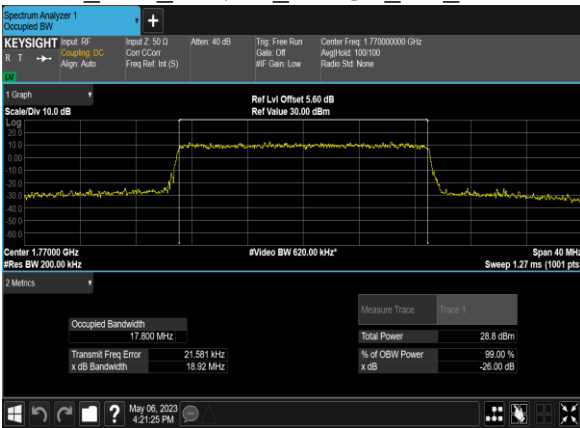
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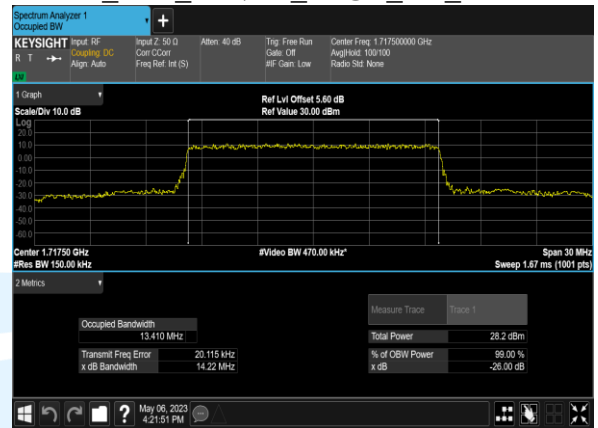
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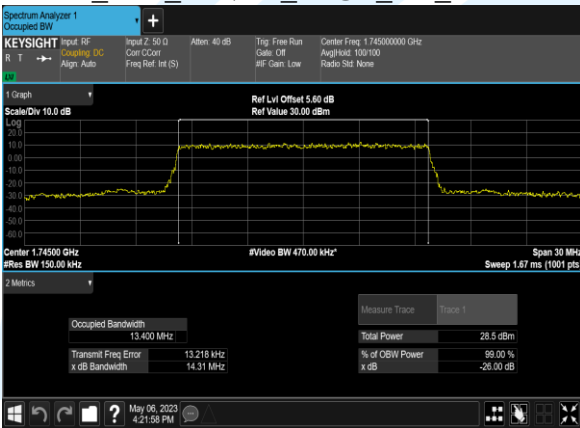
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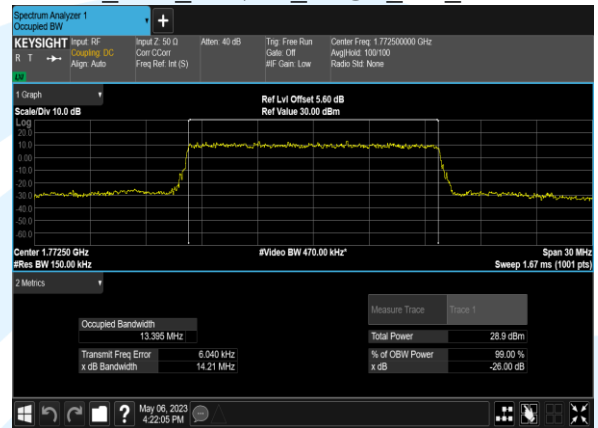
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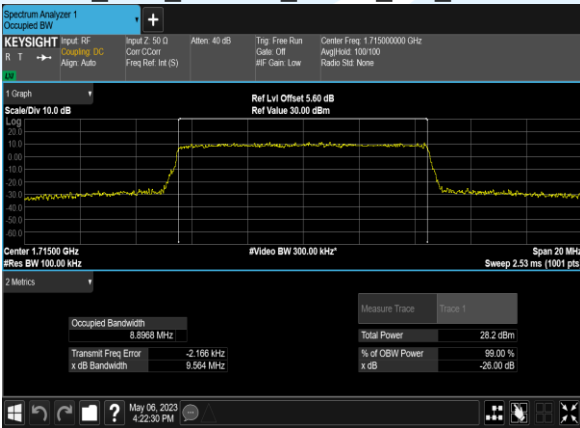
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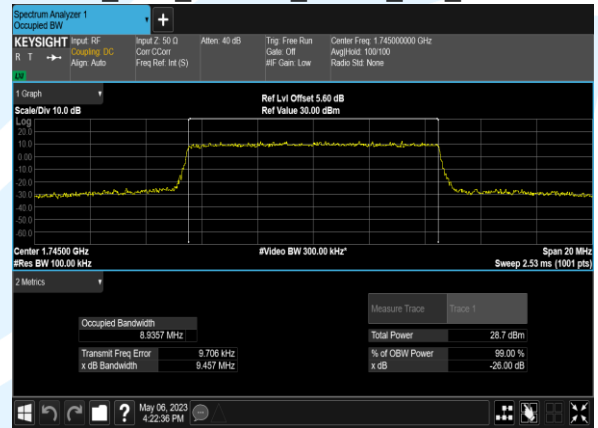
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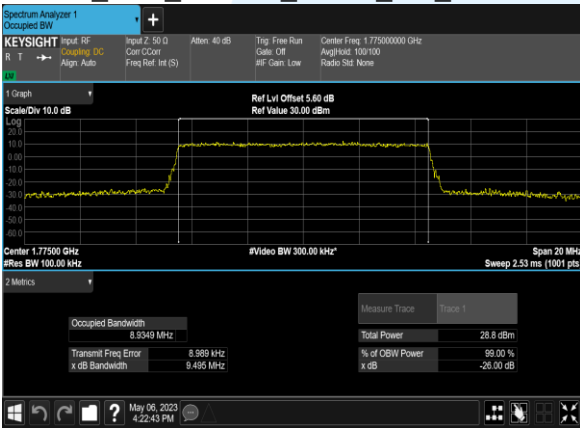
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B66_10M_64QAM_50@0_CH_132322



B66_10M_64QAM_50@0_CH_132622



B66_5M_64QAM_25@0_CH_131997



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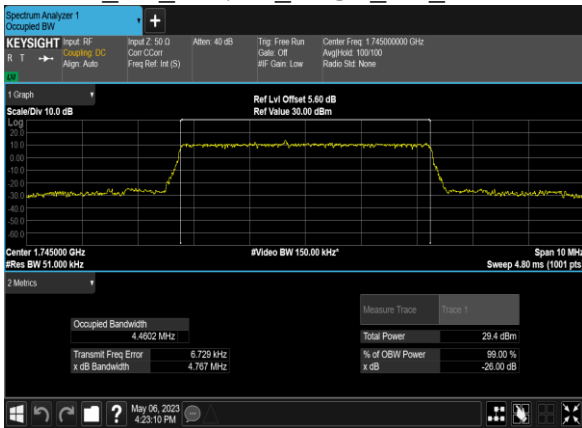
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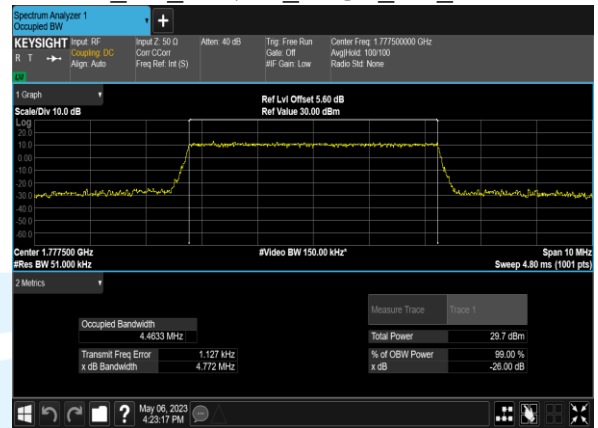
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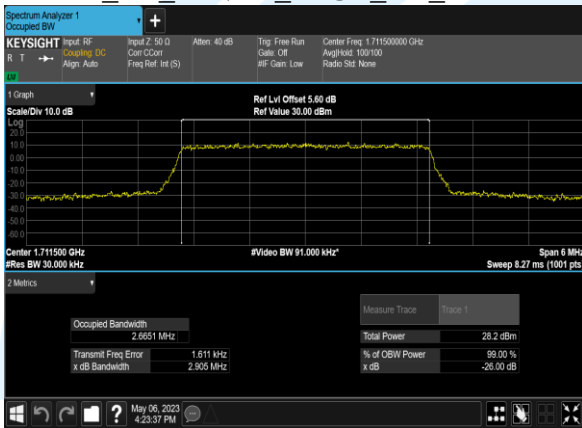
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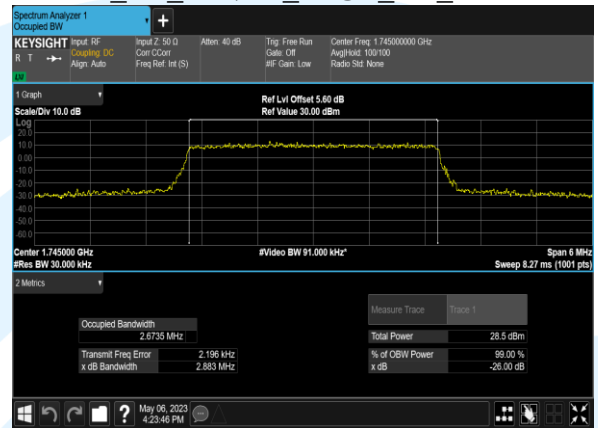
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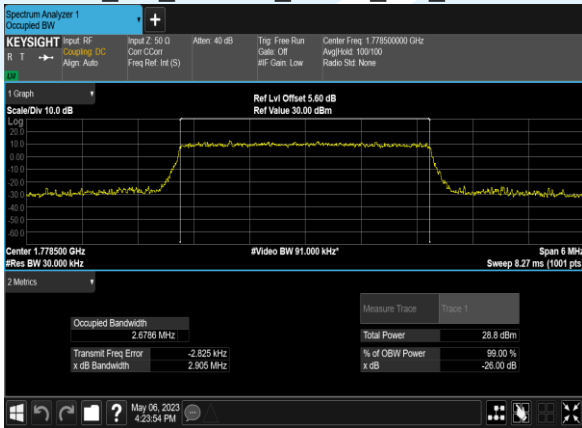
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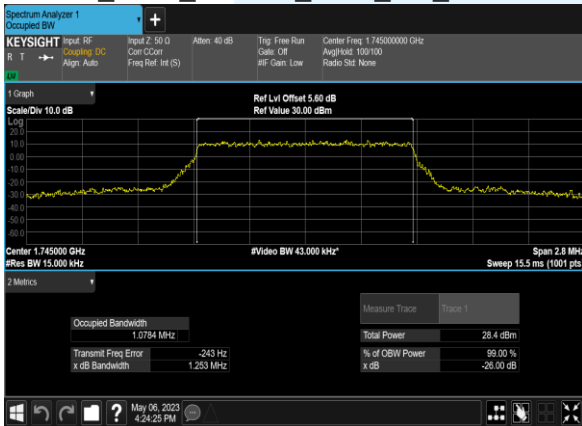
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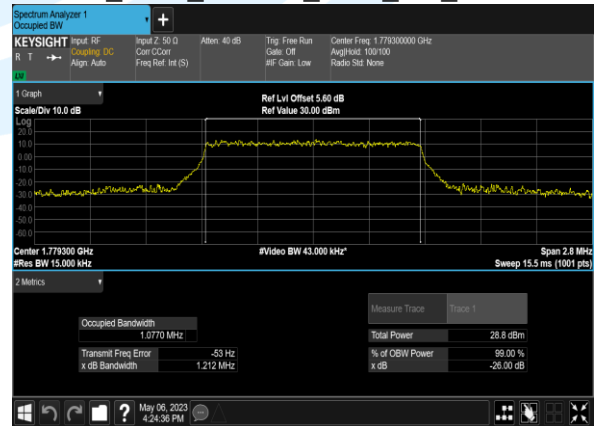
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B66_1.4M_64QAM_6@0_CH_132322



B66_1.4M_64QAM_6@0_CH_132665



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Conducted Spurious Emissions

| Band | Bandwidth (MHz) | Channel | Freq (MHz) | Modulation | RB | Result (dBm) | Limit (dBm) | Verdict |
|------|-----------------|---------|------------|------------|-----|--------------|-------------|---------|
| 66 | 20.0 | 132072 | 1720.0 | QPSK | 1@0 | -29.38 | -13 | PASS |
| 66 | 20.0 | 132072 | 1720.0 | 16QAM | 1@0 | -29.68 | -13 | PASS |
| 66 | 20.0 | 132322 | 1745.0 | QPSK | 1@0 | -29.29 | -13 | PASS |
| 66 | 20.0 | 132322 | 1745.0 | 16QAM | 1@0 | -30.1 | -13 | PASS |
| 66 | 20.0 | 132572 | 1770.0 | QPSK | 1@0 | -29.37 | -13 | PASS |
| 66 | 20.0 | 132572 | 1770.0 | 16QAM | 1@0 | -29.53 | -13 | PASS |
| 66 | 15.0 | 132047 | 1717.5 | QPSK | 1@0 | -29.05 | -13 | PASS |
| 66 | 15.0 | 132047 | 1717.5 | 16QAM | 1@0 | -29.96 | -13 | PASS |
| 66 | 15.0 | 132322 | 1745.0 | QPSK | 1@0 | -29.68 | -13 | PASS |
| 66 | 15.0 | 132322 | 1745.0 | 16QAM | 1@0 | -29.78 | -13 | PASS |
| 66 | 15.0 | 132597 | 1772.5 | QPSK | 1@0 | -29.52 | -13 | PASS |
| 66 | 15.0 | 132597 | 1772.5 | 16QAM | 1@0 | -29.92 | -13 | PASS |
| 66 | 10.0 | 132022 | 1715.0 | QPSK | 1@0 | -30.05 | -13 | PASS |
| 66 | 10.0 | 132022 | 1715.0 | 16QAM | 1@0 | -30.06 | -13 | PASS |
| 66 | 10.0 | 132322 | 1745.0 | QPSK | 1@0 | -29.4 | -13 | PASS |
| 66 | 10.0 | 132322 | 1745.0 | 16QAM | 1@0 | -28.9 | -13 | PASS |
| 66 | 10.0 | 132622 | 1775.0 | QPSK | 1@0 | -30.15 | -13 | PASS |
| 66 | 10.0 | 132622 | 1775.0 | 16QAM | 1@0 | -29.71 | -13 | PASS |
| 66 | 5.0 | 131997 | 1712.5 | QPSK | 1@0 | -28.89 | -13 | PASS |
| 66 | 5.0 | 131997 | 1712.5 | 16QAM | 1@0 | -29.52 | -13 | PASS |
| 66 | 5.0 | 132322 | 1745.0 | QPSK | 1@0 | -29.57 | -13 | PASS |
| 66 | 5.0 | 132322 | 1745.0 | 16QAM | 1@0 | -30.14 | -13 | PASS |
| 66 | 5.0 | 132647 | 1777.5 | QPSK | 1@0 | -30.09 | -13 | PASS |
| 66 | 5.0 | 132647 | 1777.5 | 16QAM | 1@0 | -30.04 | -13 | PASS |
| 66 | 3.0 | 131987 | 1711.5 | QPSK | 1@0 | -29.24 | -13 | PASS |
| 66 | 3.0 | 131987 | 1711.5 | 16QAM | 1@0 | -29.84 | -13 | PASS |
| 66 | 3.0 | 132322 | 1745.0 | QPSK | 1@0 | -29.67 | -13 | PASS |
| 66 | 3.0 | 132322 | 1745.0 | 16QAM | 1@0 | -29.15 | -13 | PASS |
| 66 | 3.0 | 132657 | 1778.5 | QPSK | 1@0 | -30.23 | -13 | PASS |
| 66 | 3.0 | 132657 | 1778.5 | 16QAM | 1@0 | -29.57 | -13 | PASS |
| 66 | 1.4 | 131979 | 1710.7 | QPSK | 1@0 | -29.55 | -13 | PASS |
| 66 | 1.4 | 131979 | 1710.7 | 16QAM | 1@0 | -30.26 | -13 | PASS |
| 66 | 1.4 | 132322 | 1745.0 | QPSK | 1@0 | -30.34 | -13 | PASS |
| 66 | 1.4 | 132322 | 1745.0 | 16QAM | 1@0 | -30.02 | -13 | PASS |
| 66 | 1.4 | 132665 | 1779.3 | QPSK | 1@0 | -29.68 | -13 | PASS |
| 66 | 1.4 | 132665 | 1779.3 | 16QAM | 1@0 | -30.02 | -13 | PASS |

| Band | Bandwidth (MHz) | Channel | Freq (MHz) | Modulation | RB | Result (dBm) | Limit (dBm) | Verdict |
|------|-----------------|---------|------------|------------|-----|--------------|-------------|---------|
| 66 | 20.0 | 132072 | 1720.0 | 64QAM | 1@0 | -29.19 | -13 | PASS |
| 66 | 20.0 | 132322 | 1745.0 | 64QAM | 1@0 | -29.89 | -13 | PASS |
| 66 | 20.0 | 132572 | 1770.0 | 64QAM | 1@0 | -29.33 | -13 | PASS |
| 66 | 15.0 | 132047 | 1717.5 | 64QAM | 1@0 | -30.0 | -13 | PASS |
| 66 | 15.0 | 132322 | 1745.0 | 64QAM | 1@0 | -29.91 | -13 | PASS |
| 66 | 15.0 | 132597 | 1772.5 | 64QAM | 1@0 | -29.97 | -13 | PASS |
| 66 | 10.0 | 132022 | 1715.0 | 64QAM | 1@0 | -29.51 | -13 | PASS |
| 66 | 10.0 | 132322 | 1745.0 | 64QAM | 1@0 | -29.45 | -13 | PASS |
| 66 | 10.0 | 132622 | 1775.0 | 64QAM | 1@0 | -29.54 | -13 | PASS |
| 66 | 5.0 | 131997 | 1712.5 | 64QAM | 1@0 | -30.03 | -13 | PASS |
| 66 | 5.0 | 132322 | 1745.0 | 64QAM | 1@0 | -29.57 | -13 | PASS |
| 66 | 5.0 | 132647 | 1777.5 | 64QAM | 1@0 | -29.37 | -13 | PASS |
| 66 | 3.0 | 131987 | 1711.5 | 64QAM | 1@0 | -29.76 | -13 | PASS |
| 66 | 3.0 | 132322 | 1745.0 | 64QAM | 1@0 | -29.59 | -13 | PASS |
| 66 | 3.0 | 132657 | 1778.5 | 64QAM | 1@0 | -29.22 | -13 | PASS |
| 66 | 1.4 | 131979 | 1710.7 | 64QAM | 1@0 | -28.67 | -13 | PASS |
| 66 | 1.4 | 132322 | 1745.0 | 64QAM | 1@0 | -29.76 | -13 | PASS |
| 66 | 1.4 | 132665 | 1779.3 | 64QAM | 1@0 | -29.85 | -13 | PASS |

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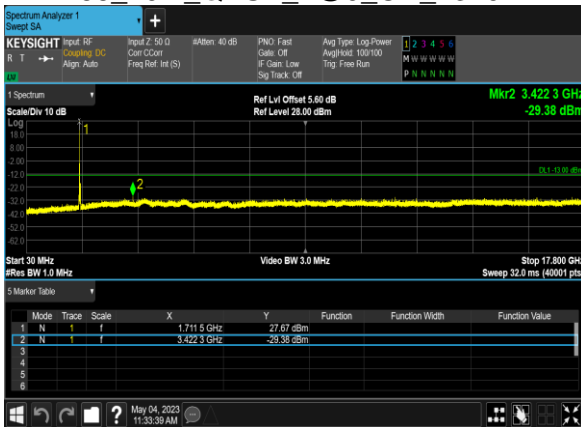
E-mail: info@uttlab.com

<http://www.uttlab.com>

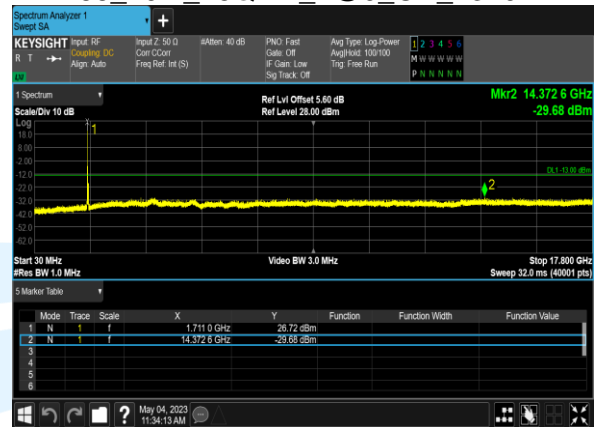
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Test Graphs

B66_20M_QPSK_1@0_CH_132072



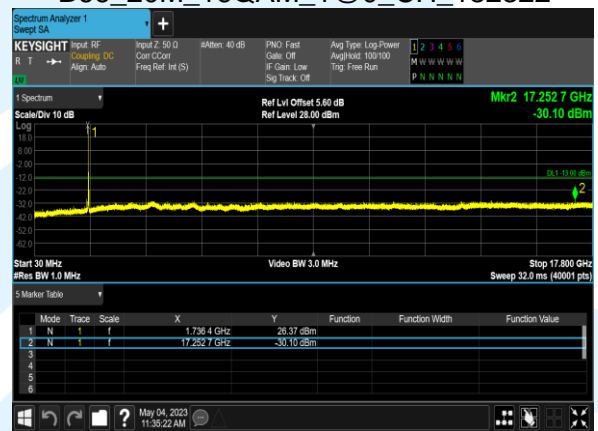
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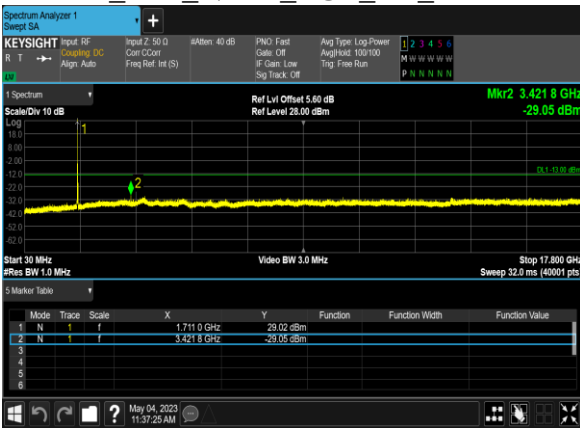
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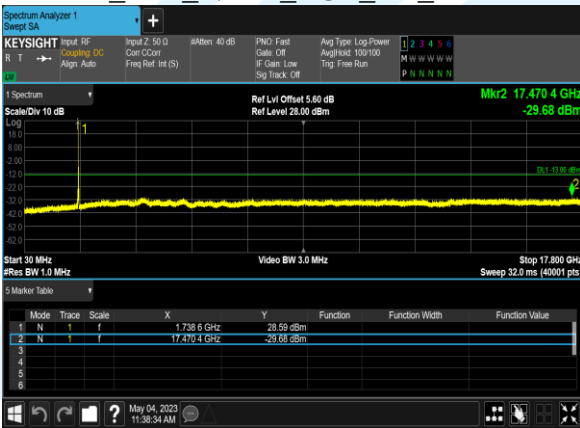
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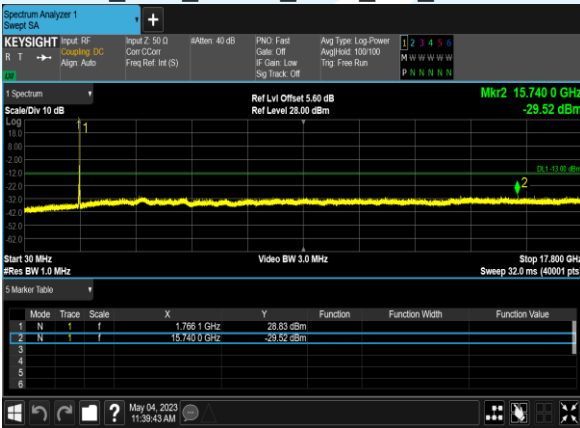
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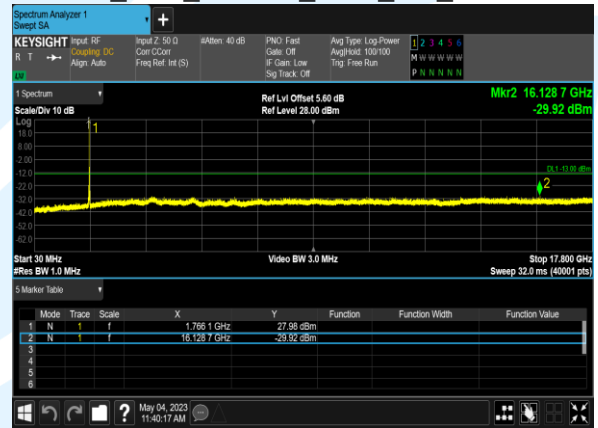
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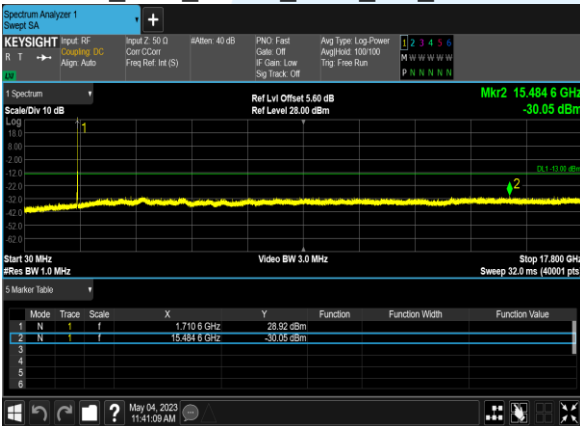
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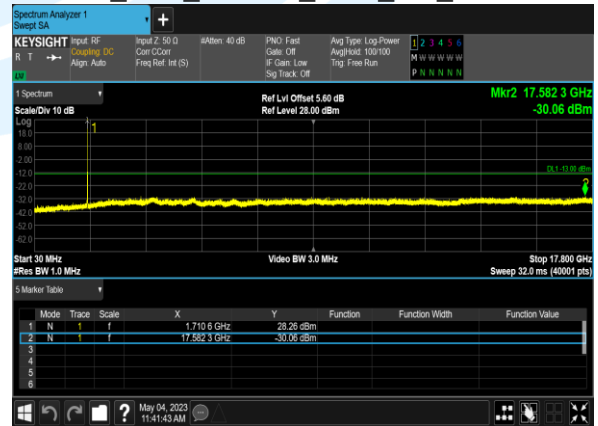
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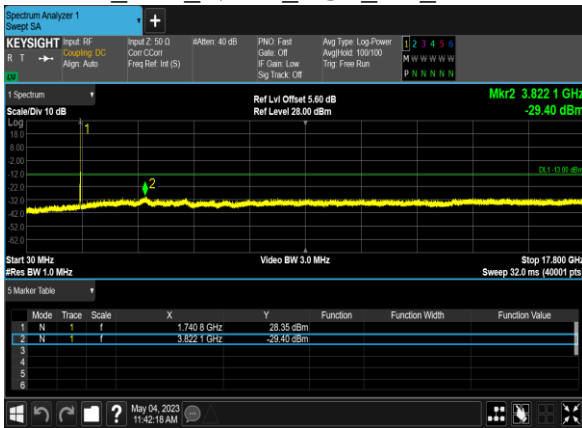
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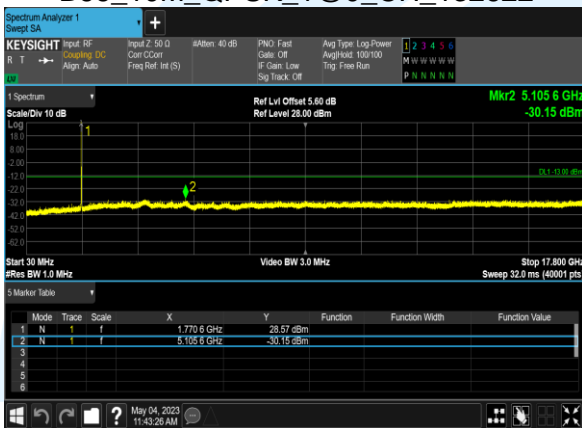
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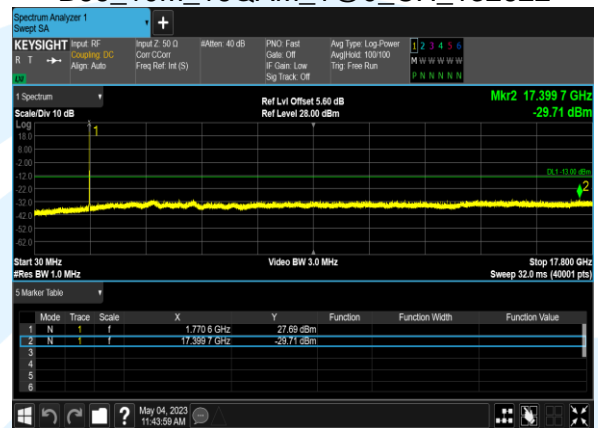
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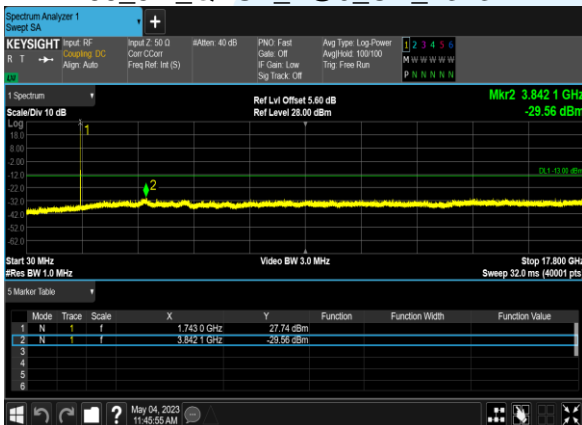
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B66_5M_16QAM_1@0_CH_131997



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B66_5M_16QAM_1@0_CH_132322

