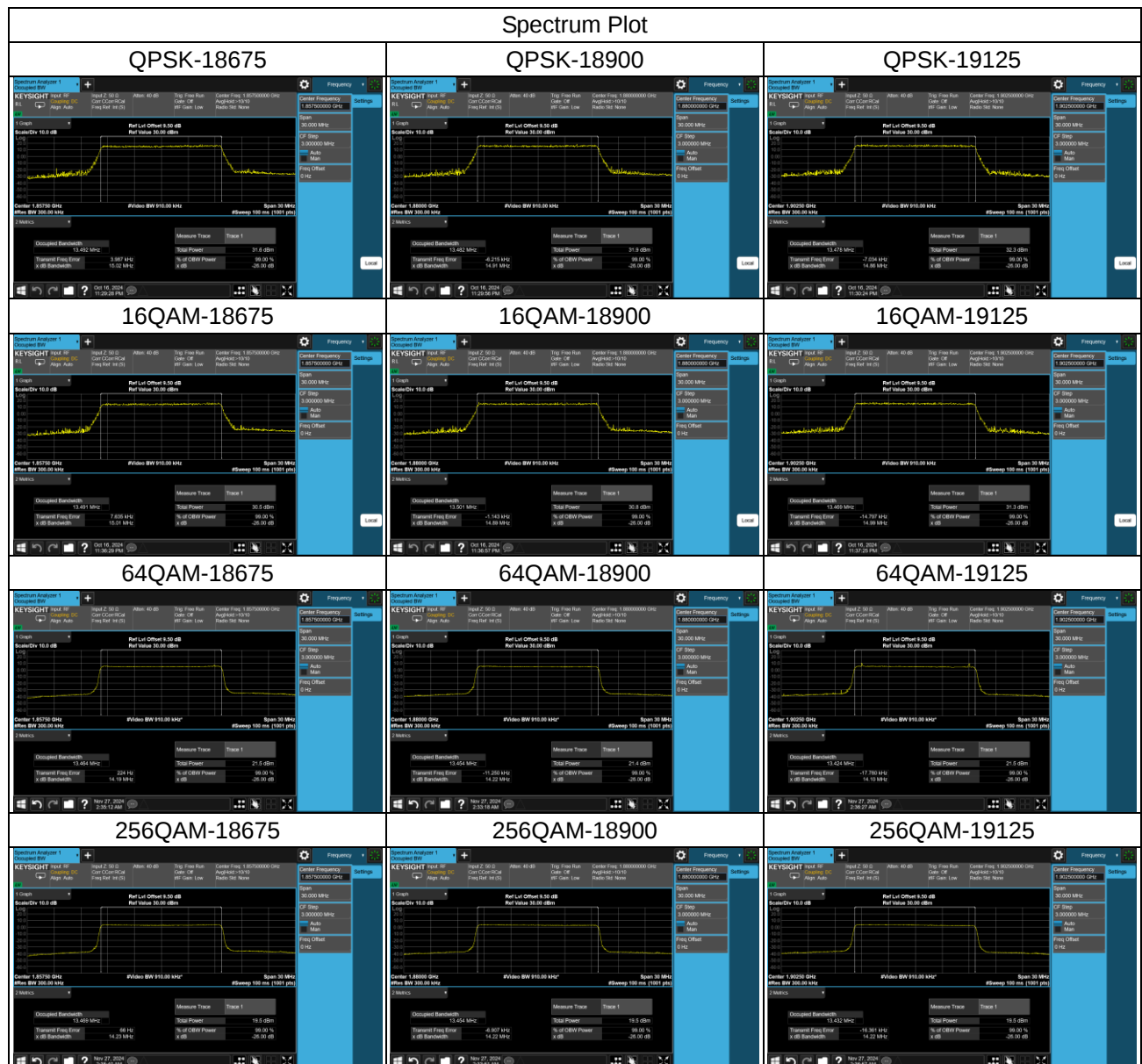
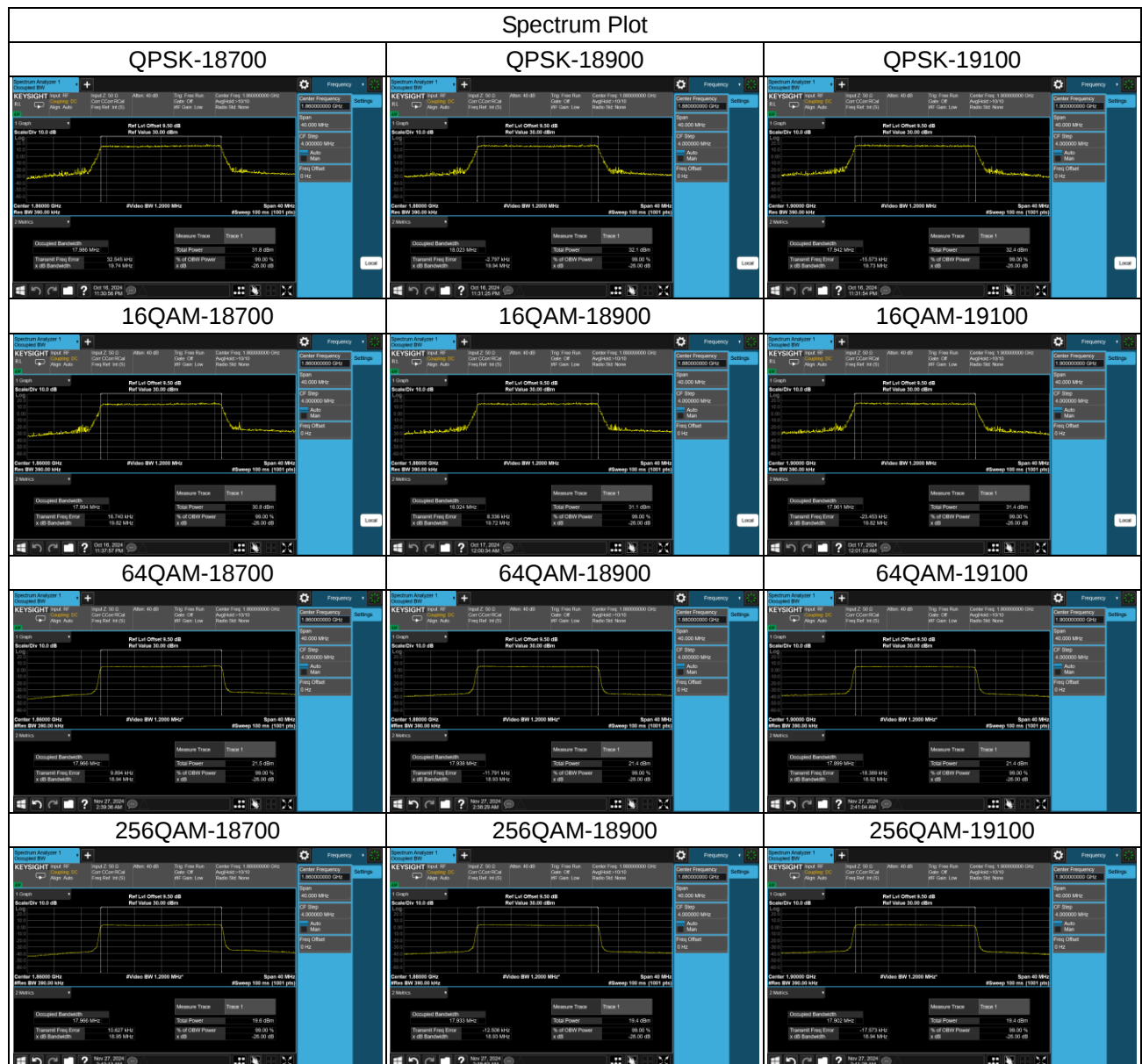


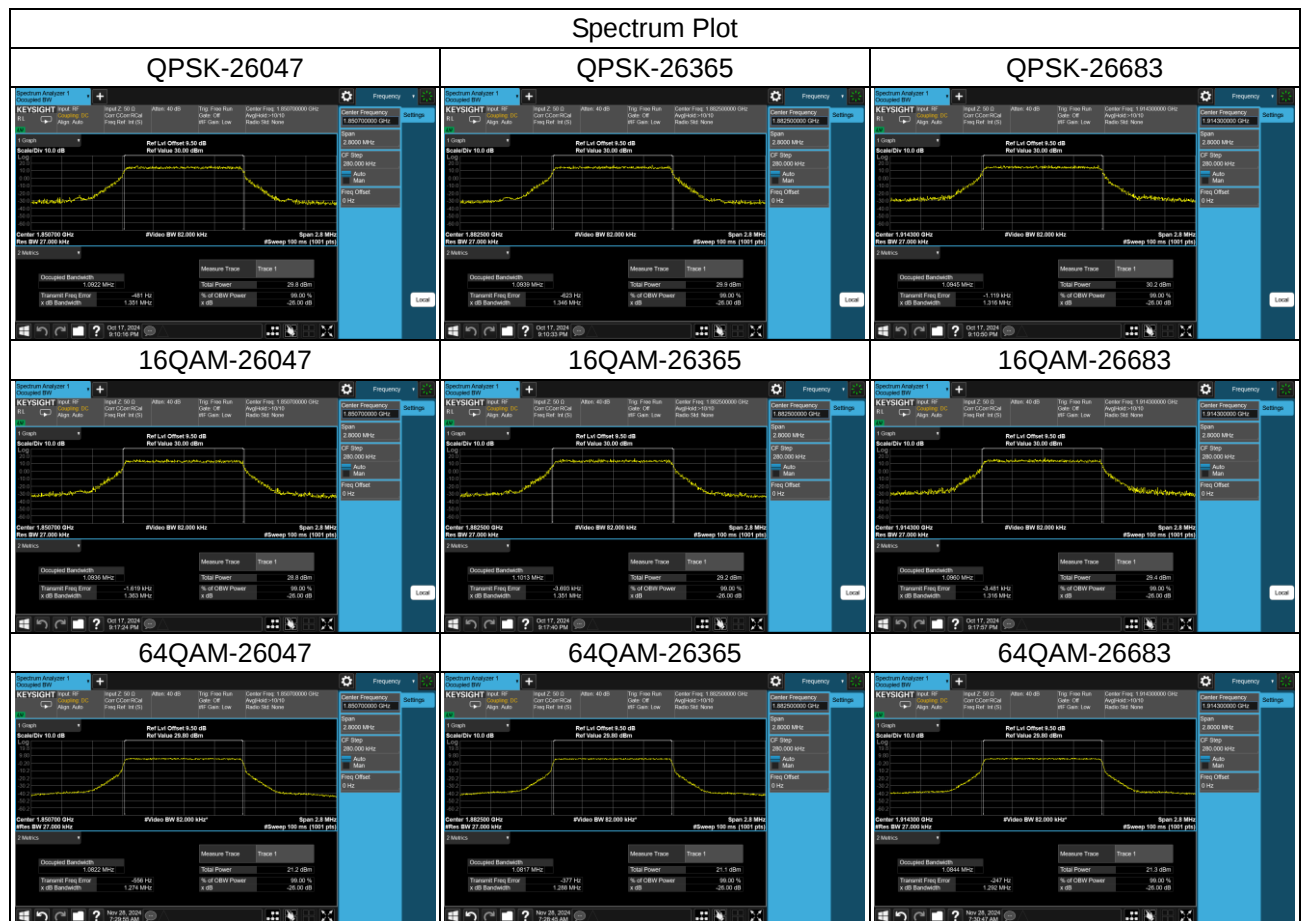
| LTE Band 2_15MHz |                 |                              |        |        |        |                      |       |       |        |
|------------------|-----------------|------------------------------|--------|--------|--------|----------------------|-------|-------|--------|
| Channel          | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |        |        |        | 26dB Bandwidth (MHz) |       |       |        |
|                  |                 | QPSK                         | 16QAM  | 64QAM  | 256QAM | QPSK                 | 16QAM | 64QAM | 256QAM |
| 18675            | 1857.5          | 13.492                       | 13.491 | 13.464 | 13.469 | 15.02                | 15.01 | 14.19 | 14.23  |
| 18900            | 1880            | 13.482                       | 13.501 | 13.454 | 13.454 | 14.91                | 14.89 | 14.22 | 14.22  |
| 19125            | 1902.5          | 13.478                       | 13.469 | 13.424 | 13.432 | 14.86                | 14.99 | 14.10 | 14.22  |



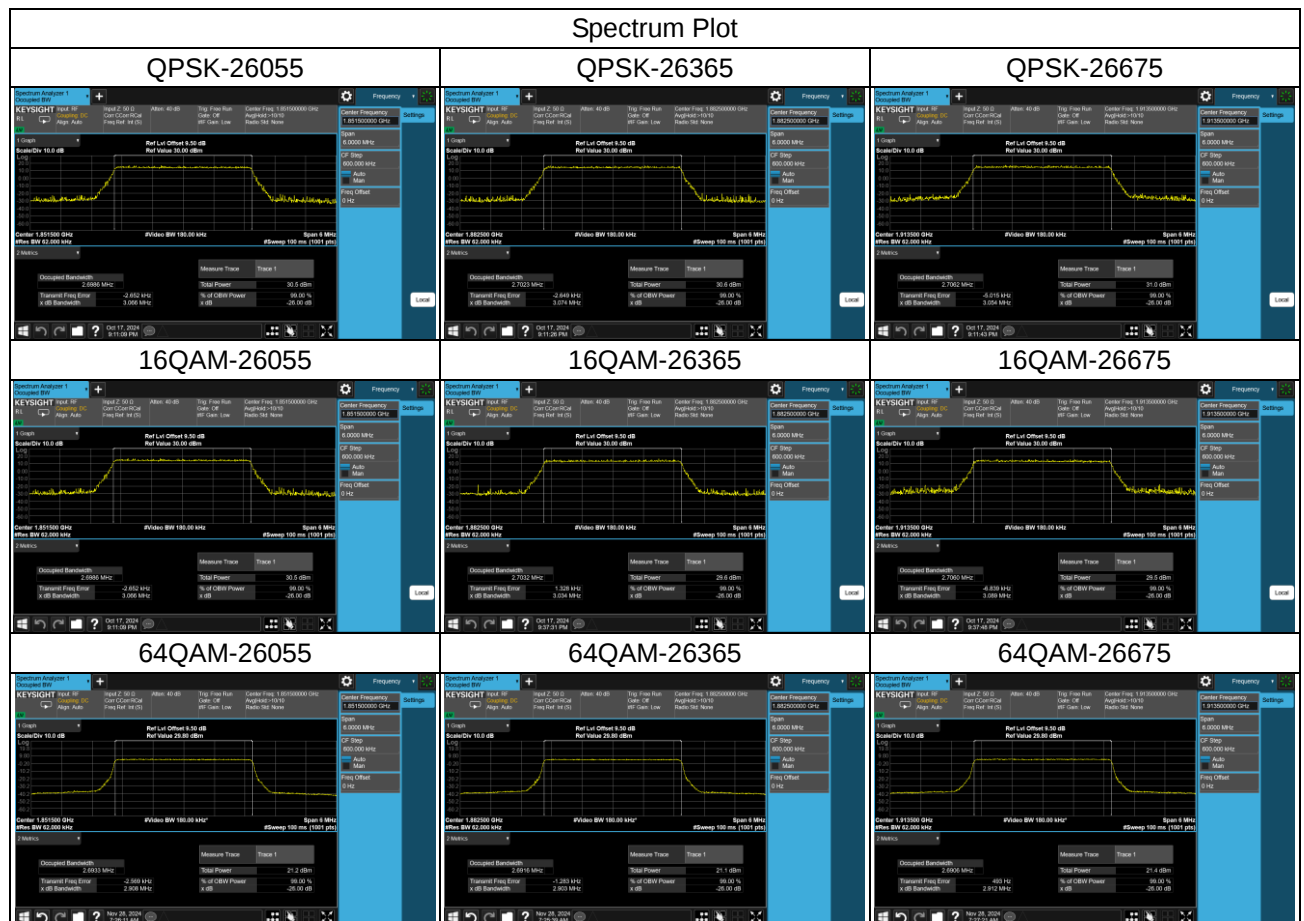
| LTE Band 2_20MHz |                 |                              |        |        |        |                      |       |       |        |
|------------------|-----------------|------------------------------|--------|--------|--------|----------------------|-------|-------|--------|
| Channel          | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |        |        |        | 26dB Bandwidth (MHz) |       |       |        |
|                  |                 | QPSK                         | 16QAM  | 64QAM  | 256QAM | QPSK                 | 16QAM | 64QAM | 256QAM |
| 18700            | 1860            | 17.986                       | 17.994 | 17.966 | 17.966 | 19.74                | 19.82 | 18.94 | 18.95  |
| 18900            | 1880            | 18.023                       | 18.024 | 17.938 | 17.933 | 19.94                | 19.72 | 18.93 | 18.93  |
| 19100            | 1900            | 17.942                       | 17.961 | 17.899 | 17.902 | 19.73                | 19.82 | 18.92 | 18.94  |



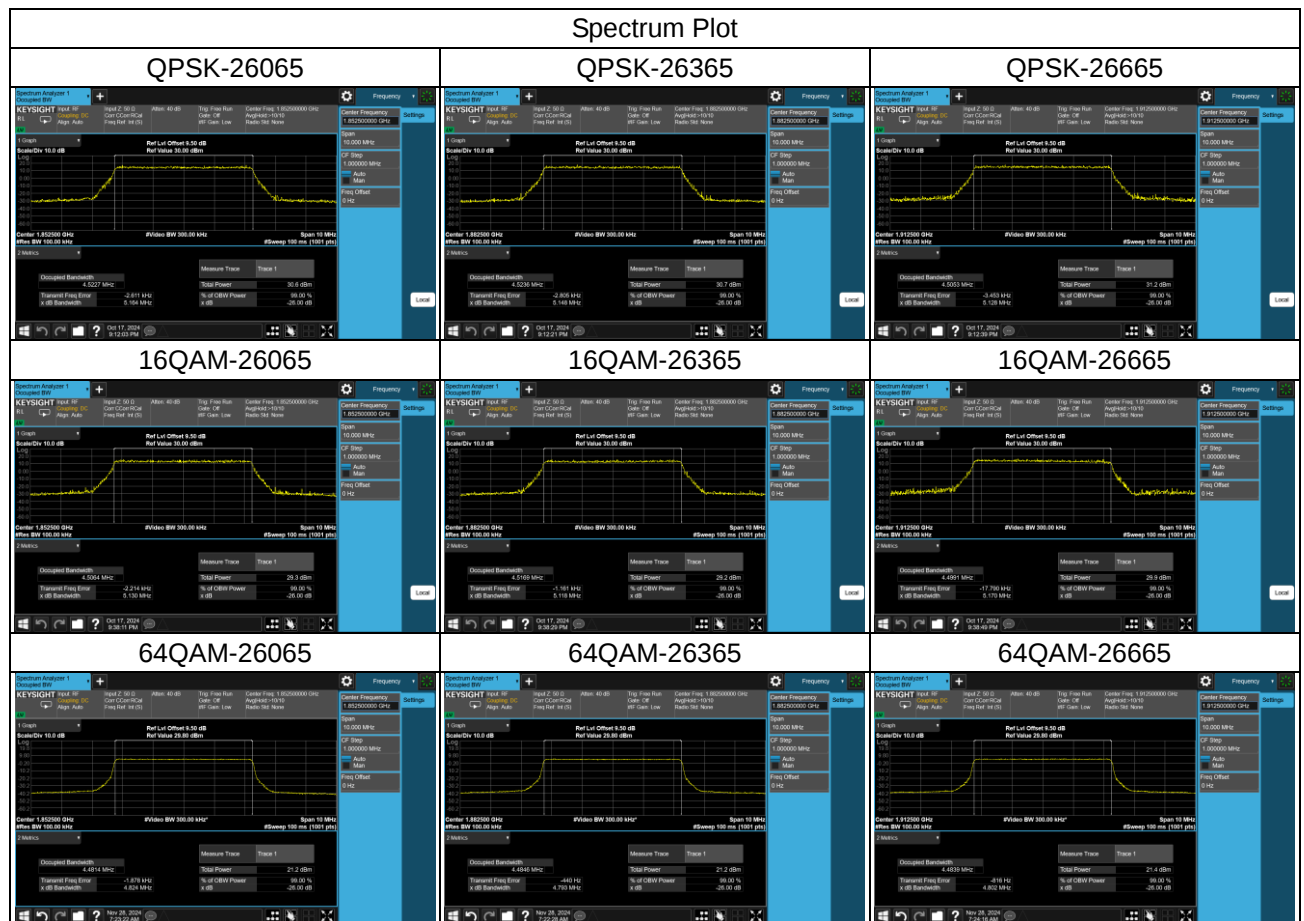
| LTE Band 25_1.4MHz |                 |                              |        |        |                      |       |       |
|--------------------|-----------------|------------------------------|--------|--------|----------------------|-------|-------|
| Channel            | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |        |        | 26dB Bandwidth (MHz) |       |       |
|                    |                 | QPSK                         | 16QAM  | 64QAM  | QPSK                 | 16QAM | 64QAM |
| 26047              | 1850.7          | 1.0922                       | 1.0936 | 1.0822 | 1.351                | 1.363 | 1.274 |
| 26365              | 1882.5          | 1.0939                       | 1.1013 | 1.0817 | 1.346                | 1.351 | 1.288 |
| 26683              | 1914.3          | 1.0945                       | 1.0960 | 1.0844 | 1.316                | 1.316 | 1.292 |



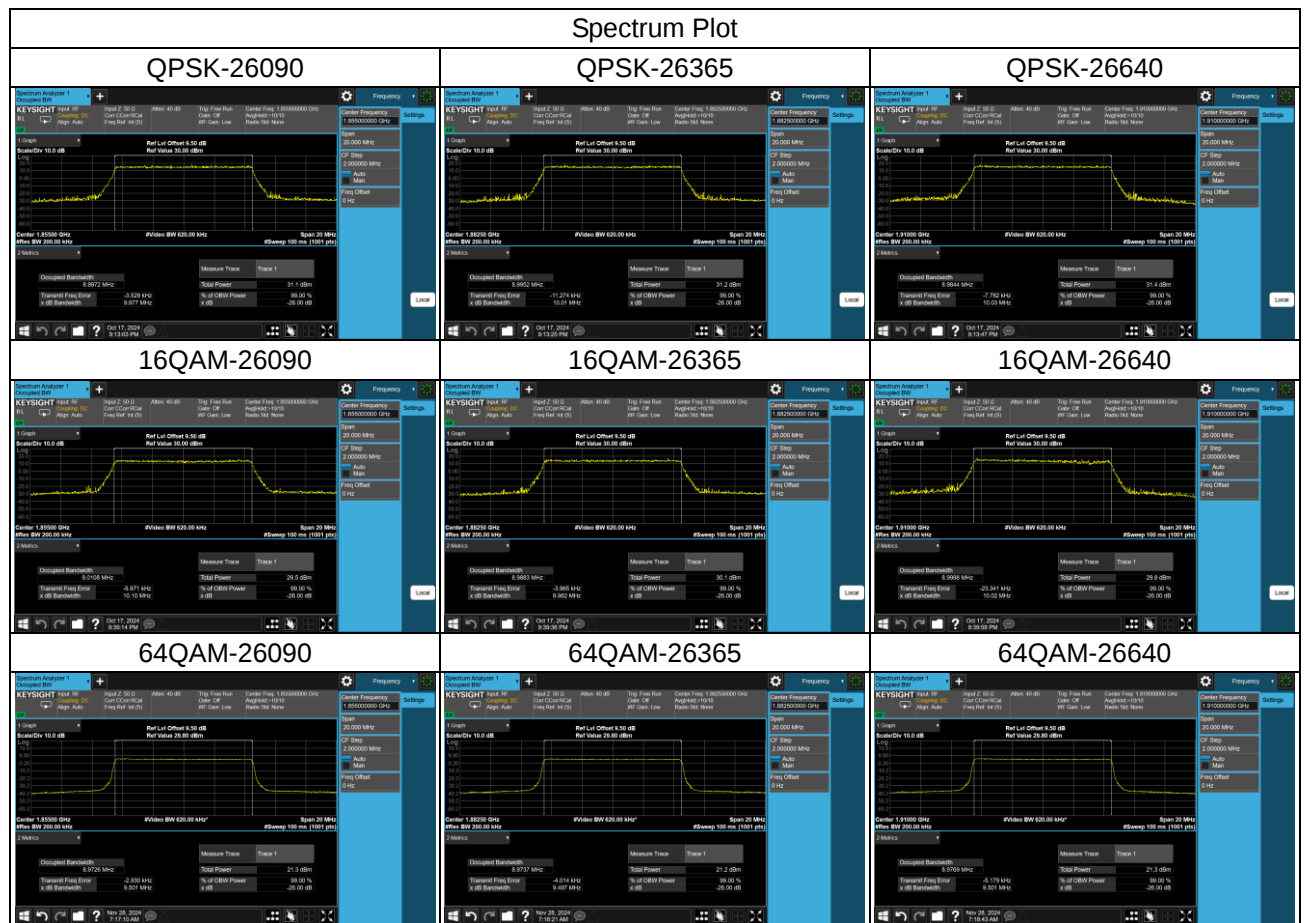
| LTE Band 25_3MHz |                 |                              |        |        |                      |       |       |
|------------------|-----------------|------------------------------|--------|--------|----------------------|-------|-------|
| Channel          | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |        |        | 26dB Bandwidth (MHz) |       |       |
|                  |                 | QPSK                         | 16QAM  | 64QAM  | QPSK                 | 16QAM | 64QAM |
| 26055            | 1851.5          | 2.6986                       | 2.7100 | 2.6933 | 3.066                | 3.059 | 2.908 |
| 26365            | 1882.5          | 2.7023                       | 2.7032 | 2.6916 | 3.074                | 3.034 | 2.903 |
| 26675            | 1913.5          | 2.7062                       | 2.7060 | 2.6906 | 3.054                | 3.089 | 2.912 |



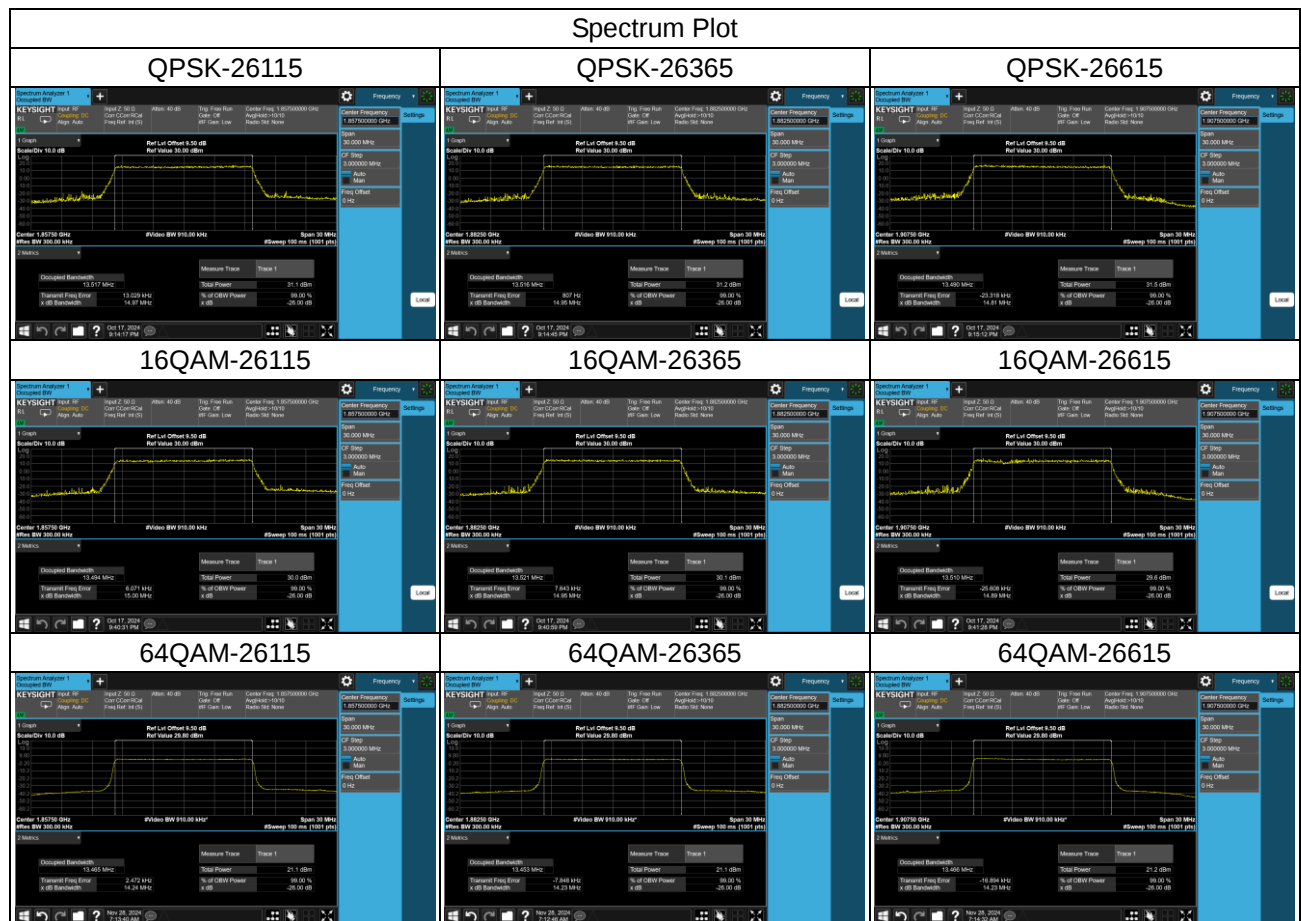
| LTE Band 25_5MHz |                 |                              |        |        |                      |       |       |
|------------------|-----------------|------------------------------|--------|--------|----------------------|-------|-------|
| Channel          | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |        |        | 26dB Bandwidth (MHz) |       |       |
|                  |                 | QPSK                         | 16QAM  | 64QAM  | QPSK                 | 16QAM | 64QAM |
| 26065            | 1852.5          | 4.5227                       | 4.5064 | 4.4814 | 5.164                | 5.130 | 4.824 |
| 26365            | 1882.5          | 4.5236                       | 4.5169 | 4.4846 | 5.148                | 5.118 | 4.793 |
| 26665            | 1912.5          | 4.5053                       | 4.4991 | 4.4839 | 5.128                | 5.170 | 4.802 |



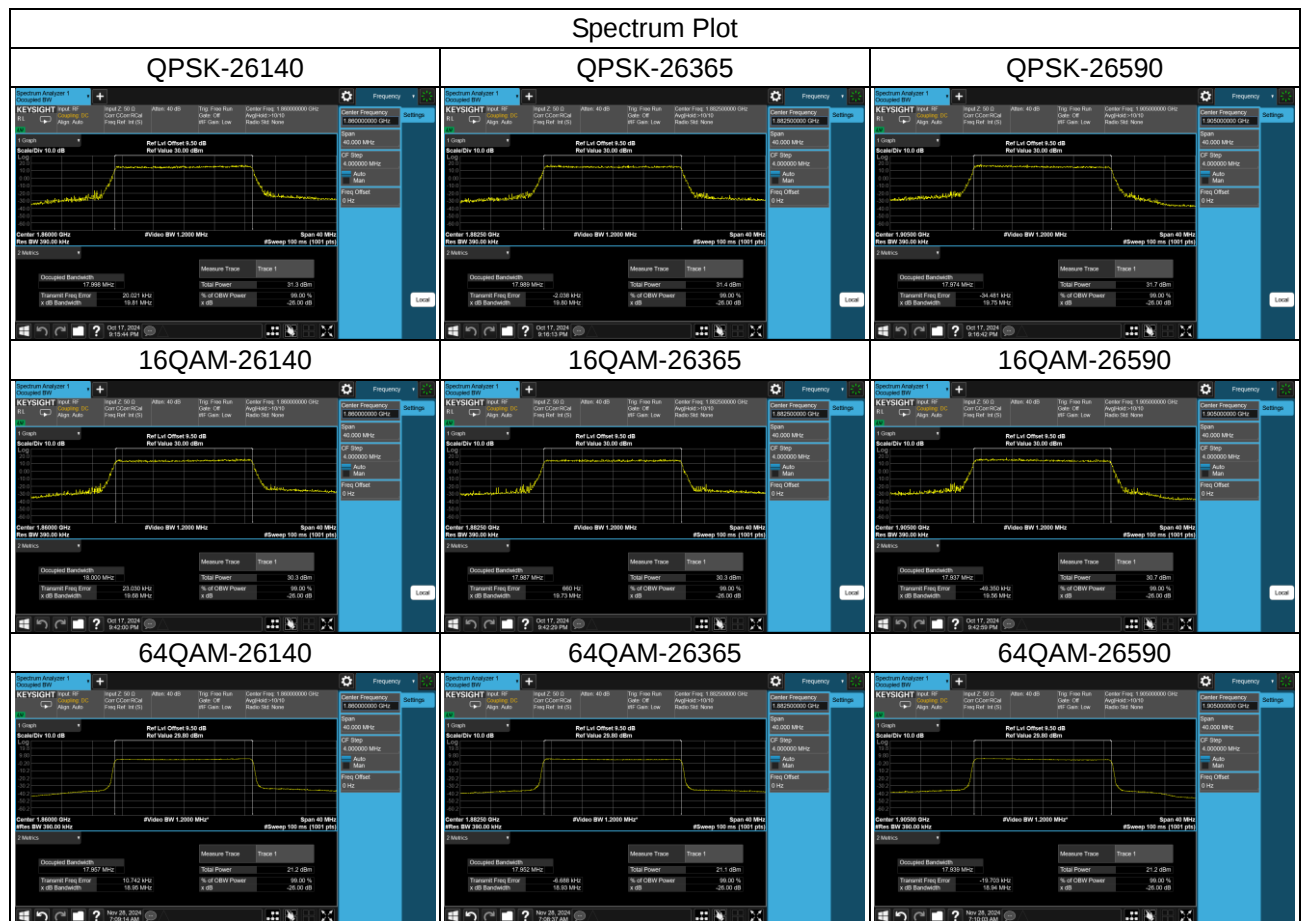
| LTE Band 25_10MHz |                 |                              |        |        |                      |       |       |
|-------------------|-----------------|------------------------------|--------|--------|----------------------|-------|-------|
| Channel           | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |        |        | 26dB Bandwidth (MHz) |       |       |
|                   |                 | QPSK                         | 16QAM  | 64QAM  | QPSK                 | 16QAM | 64QAM |
| 26090             | 1855            | 8.9972                       | 9.0108 | 8.9726 | 9.977                | 10.10 | 9.501 |
| 26365             | 1882.5          | 8.9952                       | 8.9883 | 8.9737 | 10.01                | 9.962 | 9.497 |
| 26640             | 1910            | 8.9844                       | 8.9998 | 8.9769 | 10.03                | 10.02 | 9.501 |



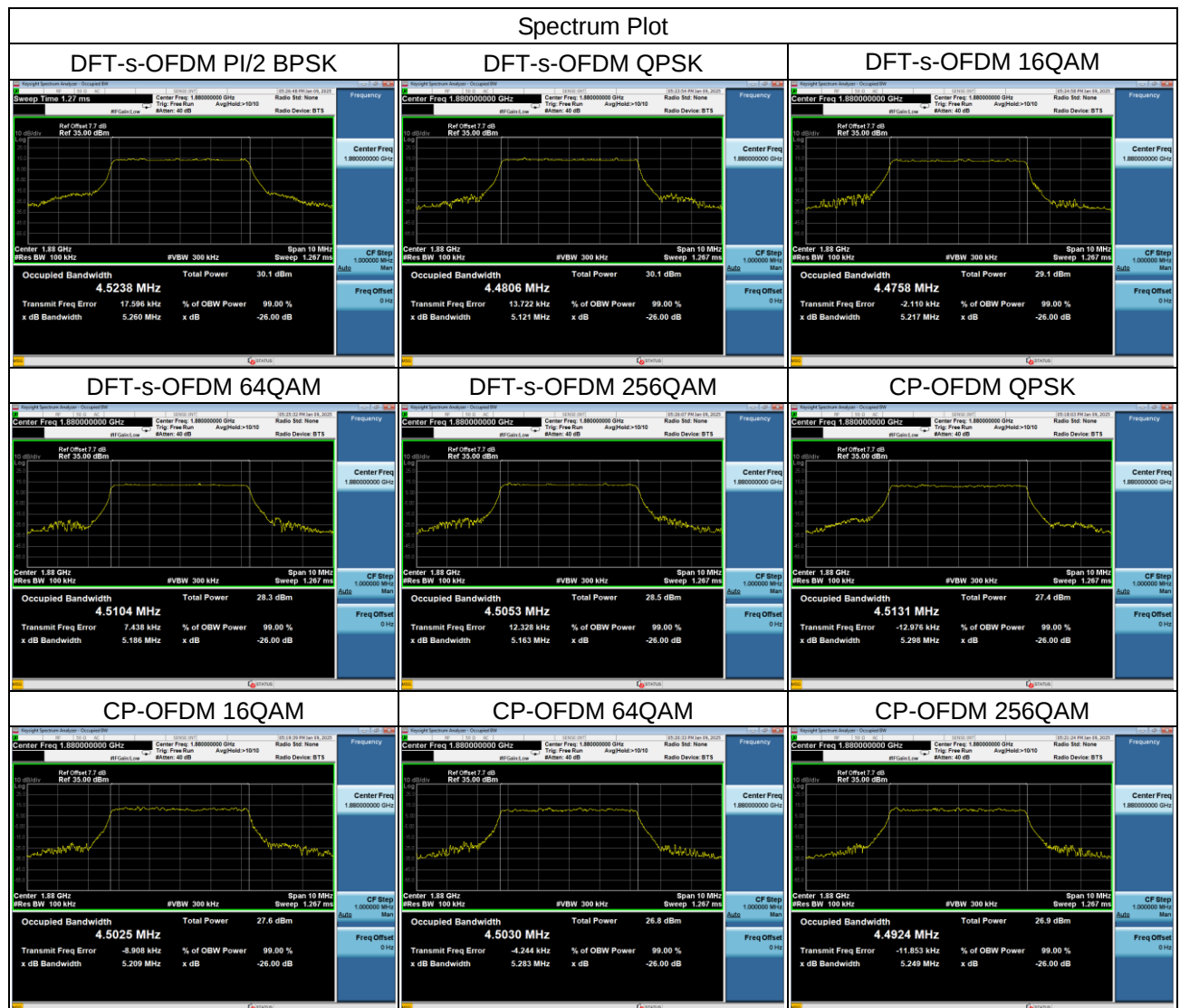
| LTE Band 25_15MHz |                 |                              |        |        |                      |       |       |
|-------------------|-----------------|------------------------------|--------|--------|----------------------|-------|-------|
| Channel           | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |        |        | 26dB Bandwidth (MHz) |       |       |
|                   |                 | QPSK                         | 16QAM  | 64QAM  | QPSK                 | 16QAM | 64QAM |
| 26115             | 1857.5          | 13.517                       | 13.494 | 13.465 | 14.97                | 15.00 | 14.24 |
| 26365             | 1882.5          | 13.516                       | 13.521 | 13.453 | 14.95                | 14.95 | 14.23 |
| 26615             | 1907.5          | 13.490                       | 13.510 | 13.466 | 14.81                | 14.89 | 14.23 |



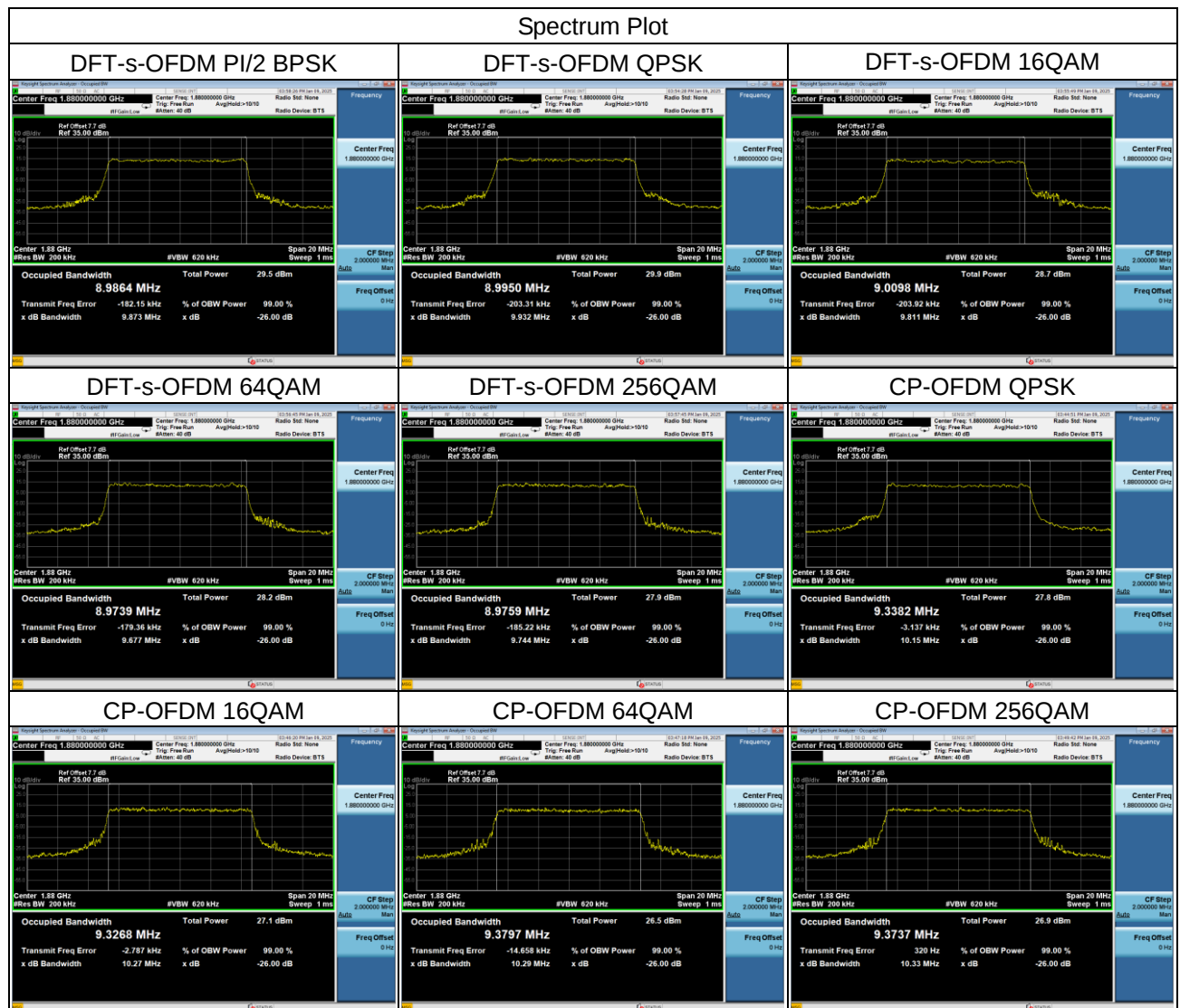
| LTE Band 25_20MHz |                 |                              |        |        |                      |       |       |
|-------------------|-----------------|------------------------------|--------|--------|----------------------|-------|-------|
| Channel           | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |        |        | 26dB Bandwidth (MHz) |       |       |
|                   |                 | QPSK                         | 16QAM  | 64QAM  | QPSK                 | 16QAM | 64QAM |
| 26140             | 1860            | 17.998                       | 18.000 | 17.957 | 19.81                | 19.68 | 18.95 |
| 26365             | 1882.5          | 17.989                       | 17.987 | 17.952 | 19.80                | 19.73 | 18.93 |
| 26590             | 1905            | 17.974                       | 17.937 | 17.939 | 19.75                | 19.56 | 18.94 |



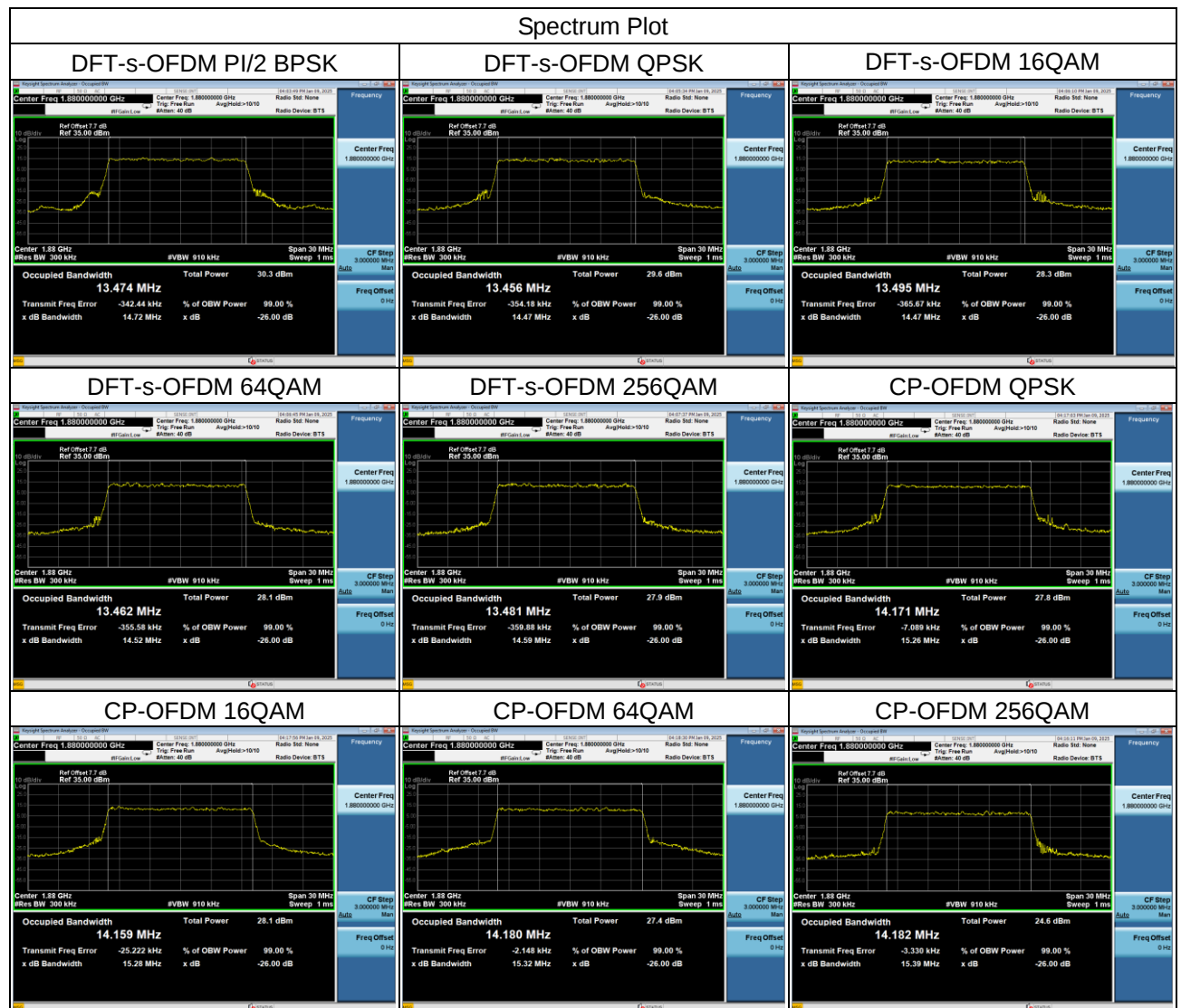
| NR n2_Mid CH_5MHz    |                              |                      |
|----------------------|------------------------------|----------------------|
| Modulation           | 99% Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) |
| DFT-s-OFDM PI/2 BPSK | 4.5238                       | 5.260                |
| DFT-s-OFDM QPSK      | 4.4806                       | 5.121                |
| DFT-s-OFDM 16QAM     | 4.4758                       | 5.217                |
| DFT-s-OFDM 64QAM     | 4.5104                       | 5.186                |
| DFT-s-OFDM 256QAM    | 4.5053                       | 5.163                |
| CP-OFDM QPSK         | 4.5131                       | 5.298                |
| CP-OFDM 16QAM        | 4.5025                       | 5.209                |
| CP-OFDM 64QAM        | 4.5030                       | 5.283                |
| CP-OFDM 256QAM       | 4.4924                       | 5.249                |



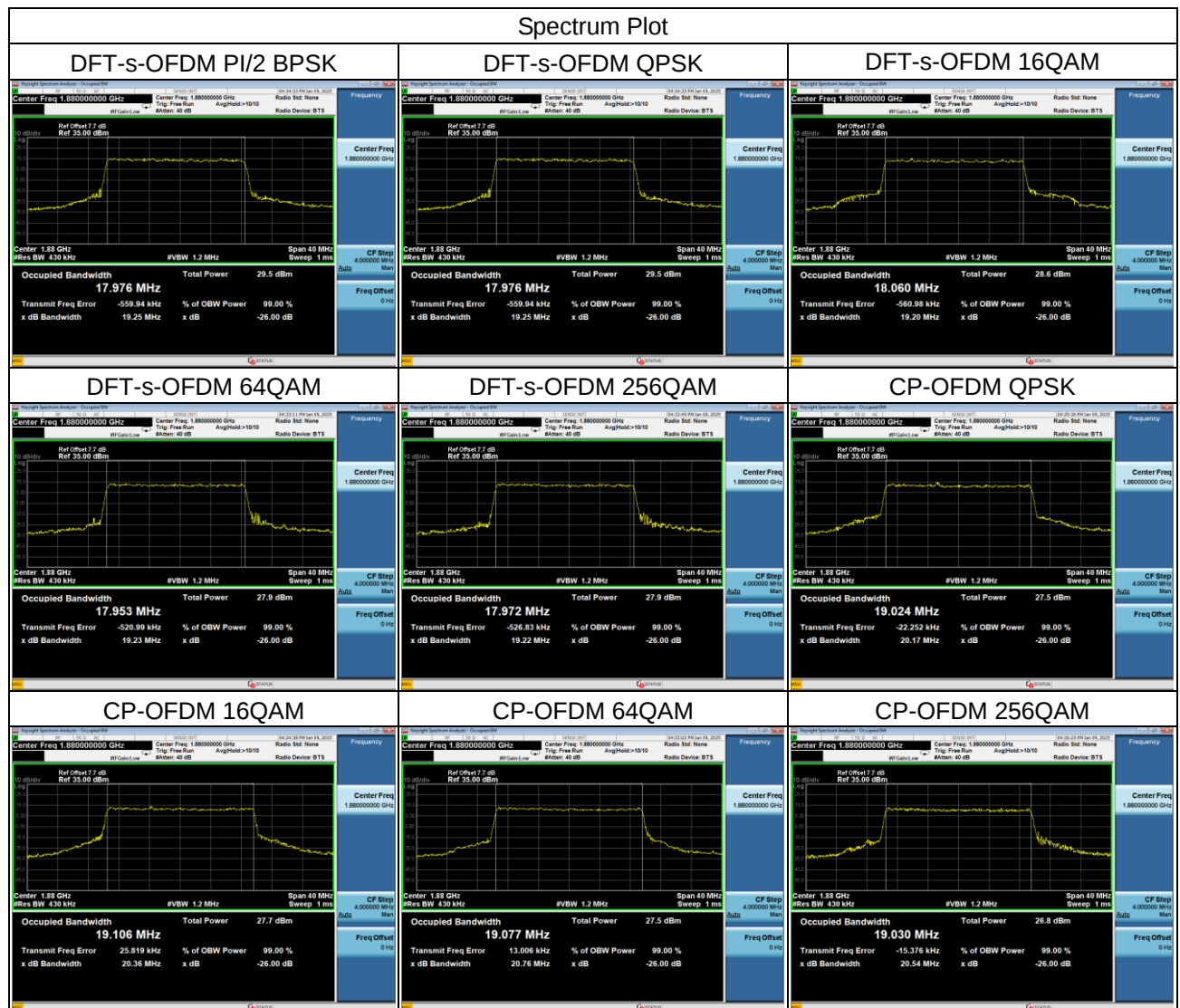
| NR n2_Mid CH_10MHz   |                              |                      |
|----------------------|------------------------------|----------------------|
| Modulation           | 99% Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) |
| DFT-s-OFDM PI/2 BPSK | 8.9864                       | 9.873                |
| DFT-s-OFDM QPSK      | 8.9950                       | 9.932                |
| DFT-s-OFDM 16QAM     | 9.0098                       | 9.811                |
| DFT-s-OFDM 64QAM     | 8.9739                       | 9.677                |
| DFT-s-OFDM 256QAM    | 8.9759                       | 9.744                |
| CP-OFDM QPSK         | 9.3382                       | 10.15                |
| CP-OFDM 16QAM        | 9.3268                       | 10.27                |
| CP-OFDM 64QAM        | 9.3797                       | 10.29                |
| CP-OFDM 256QAM       | 9.3737                       | 10.33                |



| NR n2_Mid CH_15MHz   |                              |                      |
|----------------------|------------------------------|----------------------|
| Modulation           | 99% Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) |
| DFT-s-OFDM PI/2 BPSK | 13.474                       | 14.72                |
| DFT-s-OFDM QPSK      | 13.456                       | 14.47                |
| DFT-s-OFDM 16QAM     | 13.495                       | 14.47                |
| DFT-s-OFDM 64QAM     | 13.462                       | 14.52                |
| DFT-s-OFDM 256QAM    | 13.481                       | 14.59                |
| CP-OFDM QPSK         | 14.171                       | 15.26                |
| CP-OFDM 16QAM        | 14.159                       | 15.28                |
| CP-OFDM 64QAM        | 14.180                       | 15.32                |
| CP-OFDM 256QAM       | 14.182                       | 15.39                |



| NR n2_Mid CH_20MHz   |                              |                      |
|----------------------|------------------------------|----------------------|
| Modulation           | 99% Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) |
| DFT-s-OFDM PI/2 BPSK | 17.976                       | 19.25                |
| DFT-s-OFDM QPSK      | 17.976                       | 19.25                |
| DFT-s-OFDM 16QAM     | 18.060                       | 19.20                |
| DFT-s-OFDM 64QAM     | 17.953                       | 19.23                |
| DFT-s-OFDM 256QAM    | 17.972                       | 19.22                |
| CP-OFDM QPSK         | 19.024                       | 20.17                |
| CP-OFDM 16QAM        | 19.106                       | 20.36                |
| CP-OFDM 64QAM        | 19.077                       | 20.76                |
| CP-OFDM 256QAM       | 19.030                       | 20.54                |



| NR n25_Mid CH_5MHz   |                              |                      |
|----------------------|------------------------------|----------------------|
| Modulation           | 99% Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) |
| DFT-s-OFDM PI/2 BPSK | 4.5214                       | 5.264                |
| DFT-s-OFDM QPSK      | 4.4699                       | 5.162                |
| DFT-s-OFDM 16QAM     | 4.4925                       | 5.003                |
| DFT-s-OFDM 64QAM     | 4.5062                       | 5.220                |
| DFT-s-OFDM 256QAM    | 4.5073                       | 5.213                |
| CP-OFDM QPSK         | 4.5234                       | 5.342                |
| CP-OFDM 16QAM        | 4.5269                       | 5.152                |
| CP-OFDM 64QAM        | 4.5223                       | 5.296                |
| CP-OFDM 256QAM       | 4.4909                       | 5.155                |

