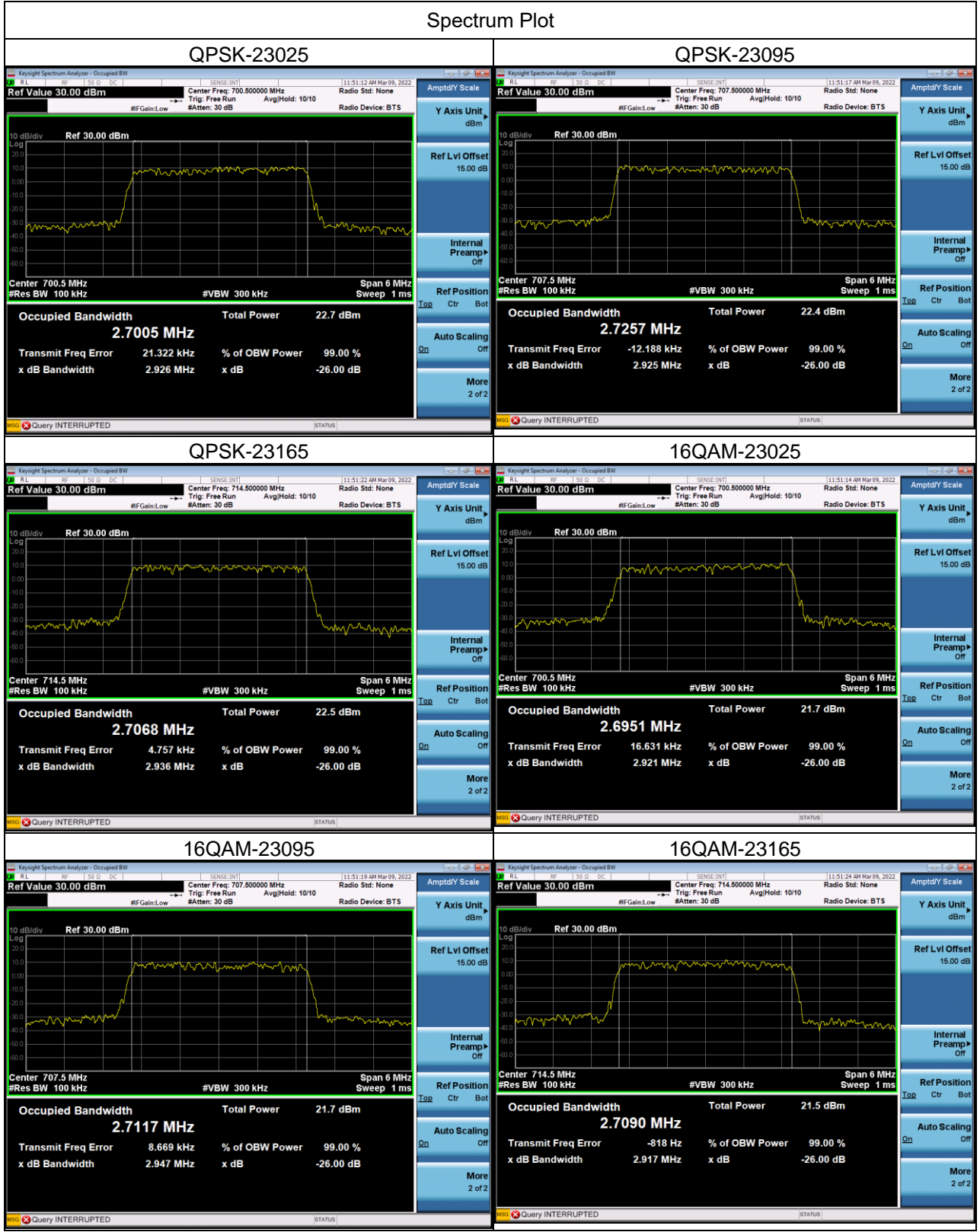


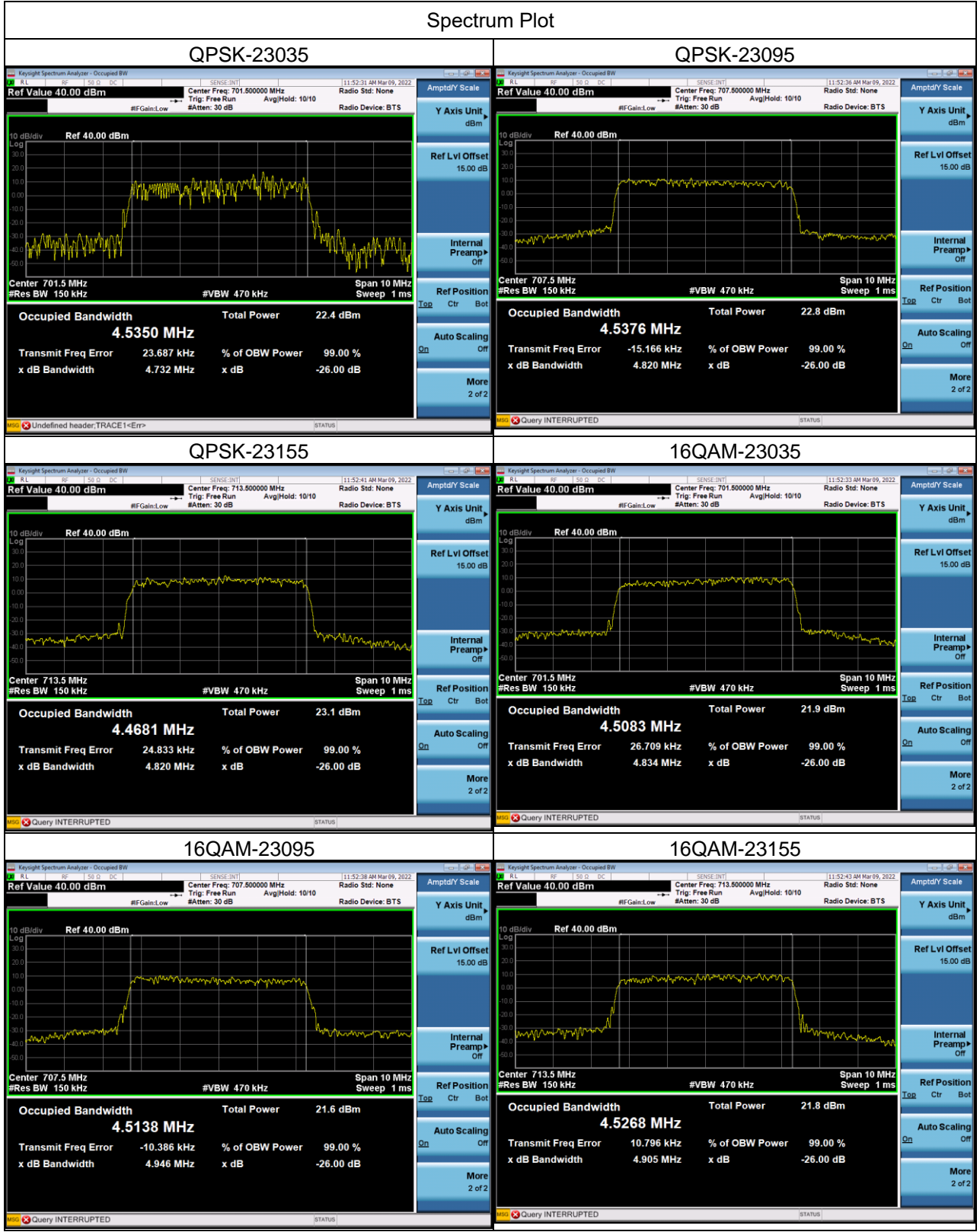
## Spectrum Plot

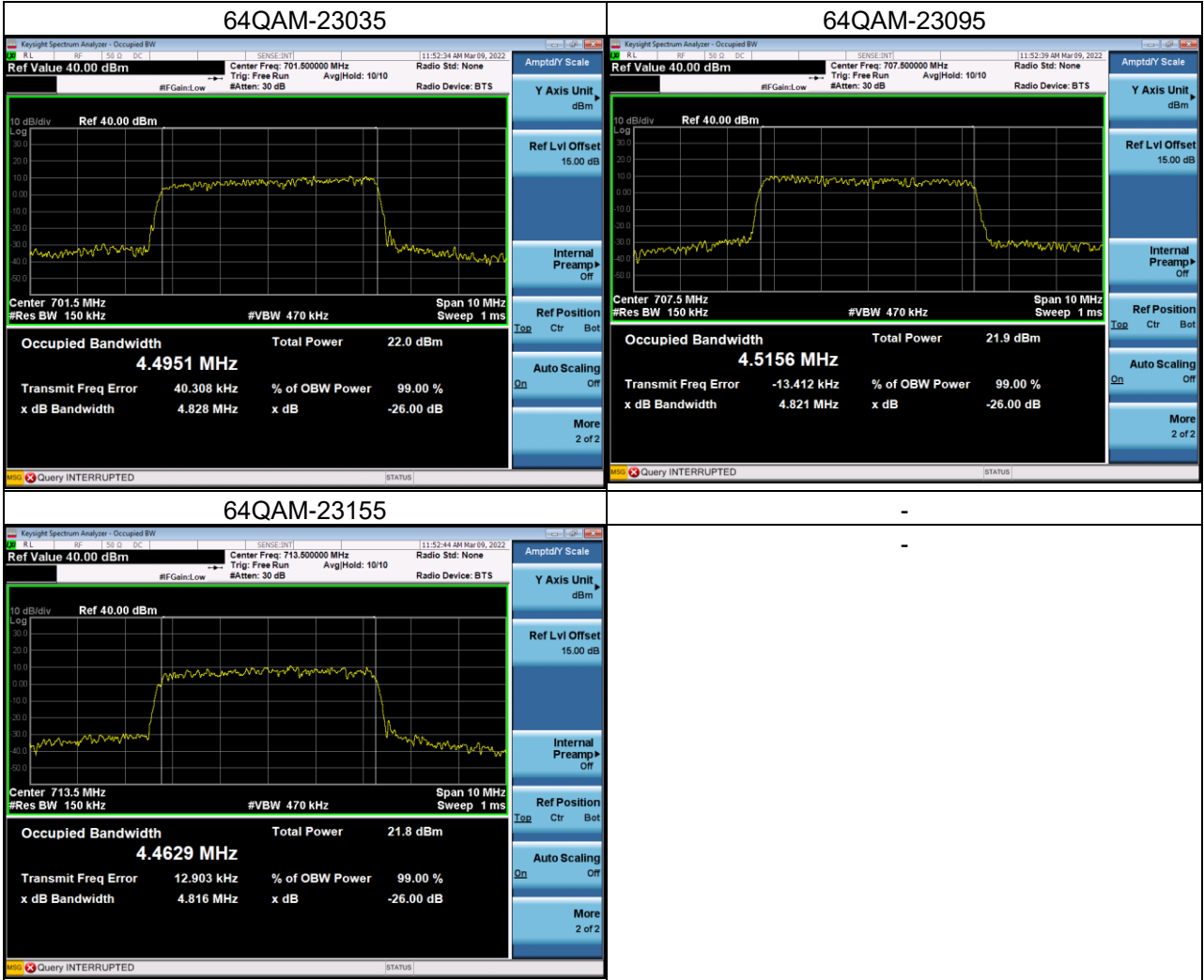




| LTE Band 12_5M |                 |                              |         |                 |                      |
|----------------|-----------------|------------------------------|---------|-----------------|----------------------|
| QPSK           |                 |                              |         |                 |                      |
| Channel        | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
| 23035          | 701.5           | 4.5350                       | 23035   | 701.5           | 4.732                |
| 23095          | 707.5           | 4.5376                       | 23095   | 707.5           | 4.820                |
| 23155          | 713.5           | 4.4681                       | 23155   | 713.5           | 4.820                |
| 16QAM          |                 |                              |         |                 |                      |
| Channel        | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
| 23035          | 701.5           | 4.5083                       | 23035   | 701.5           | 4.834                |
| 23095          | 707.5           | 4.5138                       | 23095   | 707.5           | 4.946                |
| 23155          | 713.5           | 4.5268                       | 23155   | 713.5           | 4.905                |
| 64QAM          |                 |                              |         |                 |                      |
| Channel        | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
| 23035          | 701.5           | 4.4951                       | 23035   | 701.5           | 4.828                |
| 23095          | 707.5           | 4.5156                       | 23095   | 707.5           | 4.821                |
| 23155          | 713.5           | 4.4629                       | 23155   | 713.5           | 4.816                |

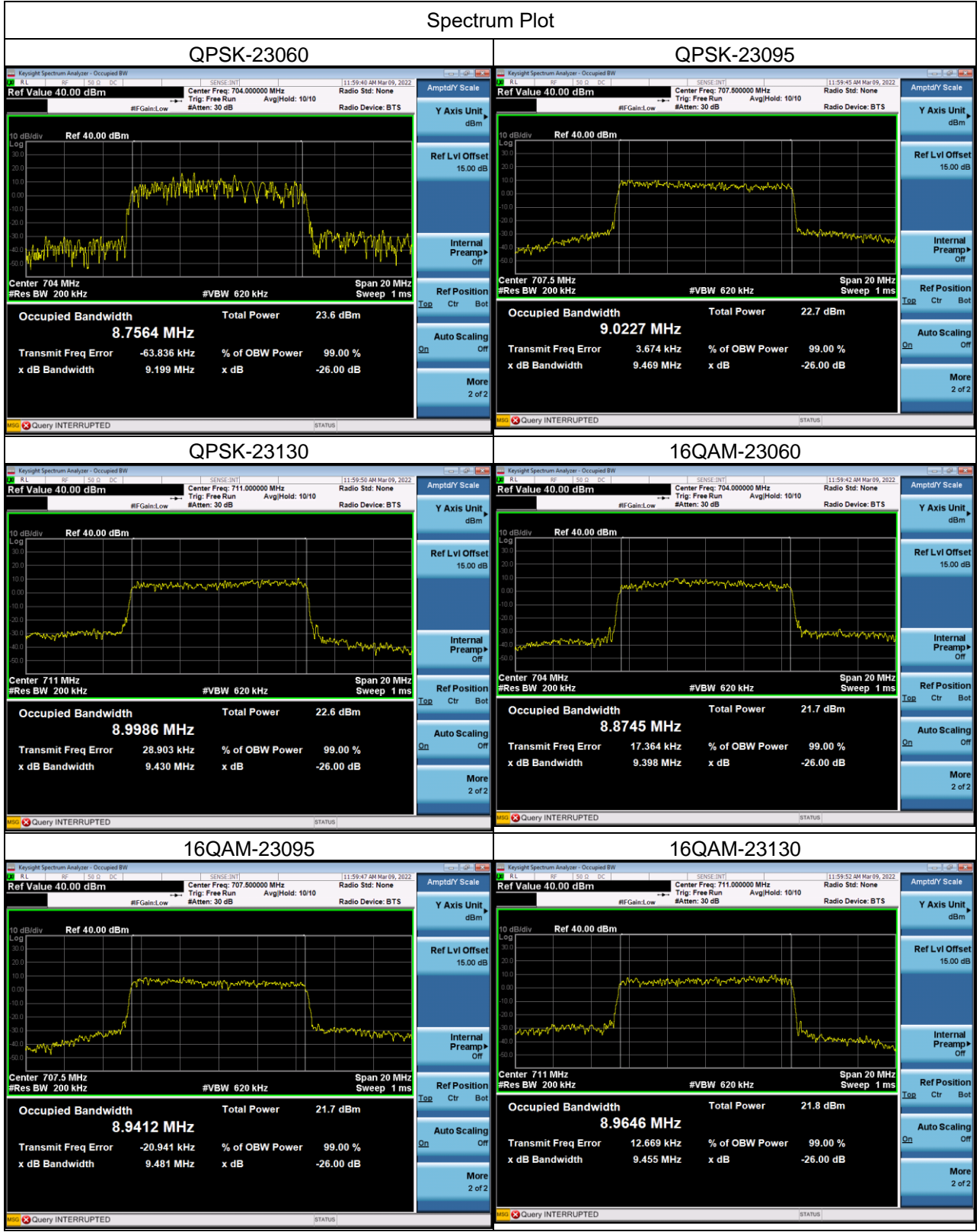
## Spectrum Plot





| LTE Band 12_10M |                 |                              |         |                 |                      |
|-----------------|-----------------|------------------------------|---------|-----------------|----------------------|
| QPSK            |                 |                              |         |                 |                      |
| Channel         | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
| 23060           | 704.0           | 8.7564                       | 23060   | 704.0           | 9.199                |
| 23095           | 707.5           | 9.0227                       | 23095   | 707.5           | 9.469                |
| 23130           | 711.0           | 8.9986                       | 23130   | 711.0           | 9.430                |
| 16QAM           |                 |                              |         |                 |                      |
| Channel         | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
| 23060           | 704.0           | 8.8745                       | 23060   | 704.0           | 9.398                |
| 23095           | 707.5           | 8.9412                       | 23095   | 707.5           | 9.481                |
| 23130           | 711.0           | 8.9646                       | 23130   | 711.0           | 9.455                |
| 64QAM           |                 |                              |         |                 |                      |
| Channel         | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
| 23060           | 704.0           | 8.7976                       | 23060   | 704.0           | 8.372                |
| 23095           | 707.5           | 8.9343                       | 23095   | 707.5           | 9.474                |
| 23130           | 711.0           | 8.9518                       | 23130   | 711.0           | 9.424                |

## Spectrum Plot

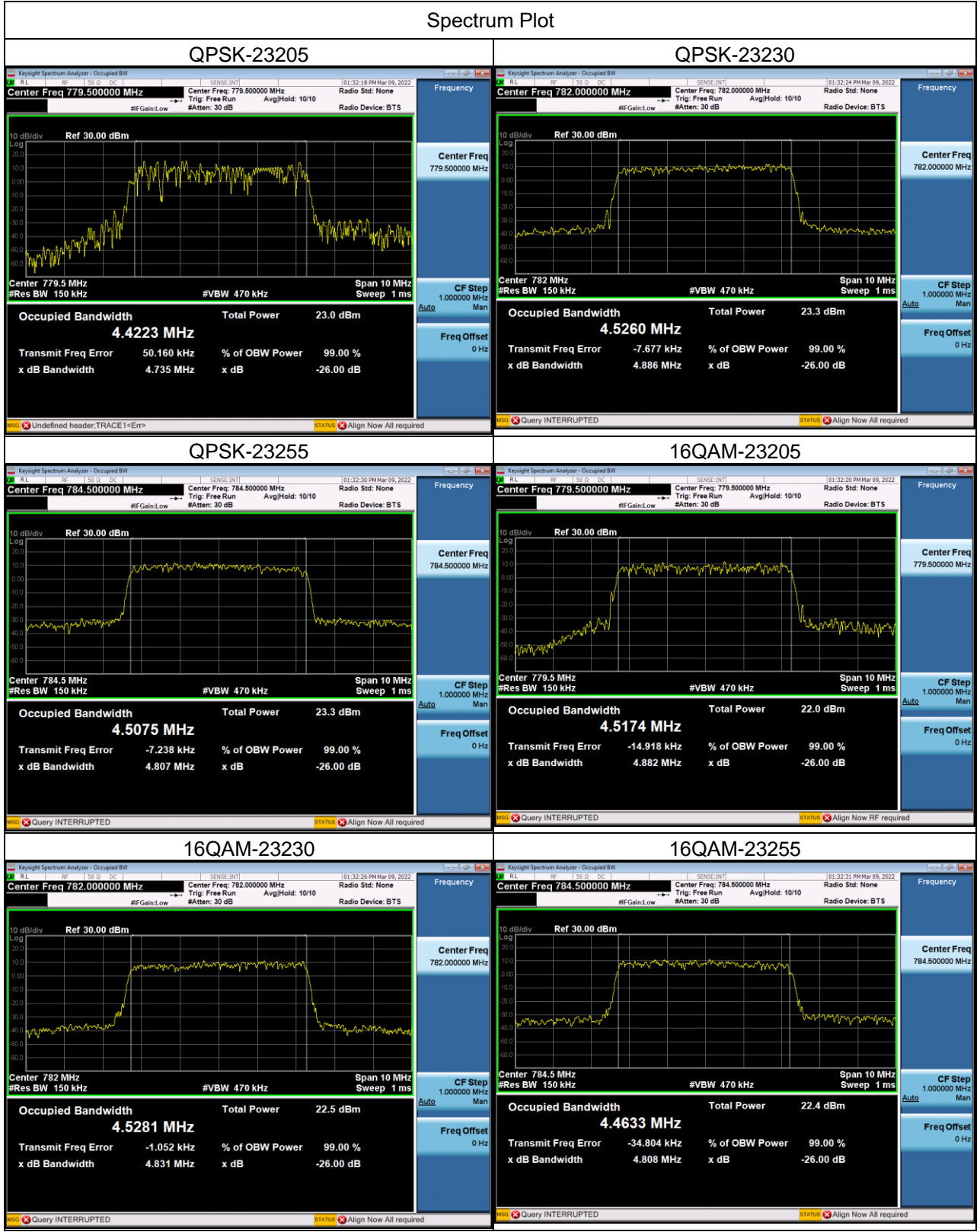


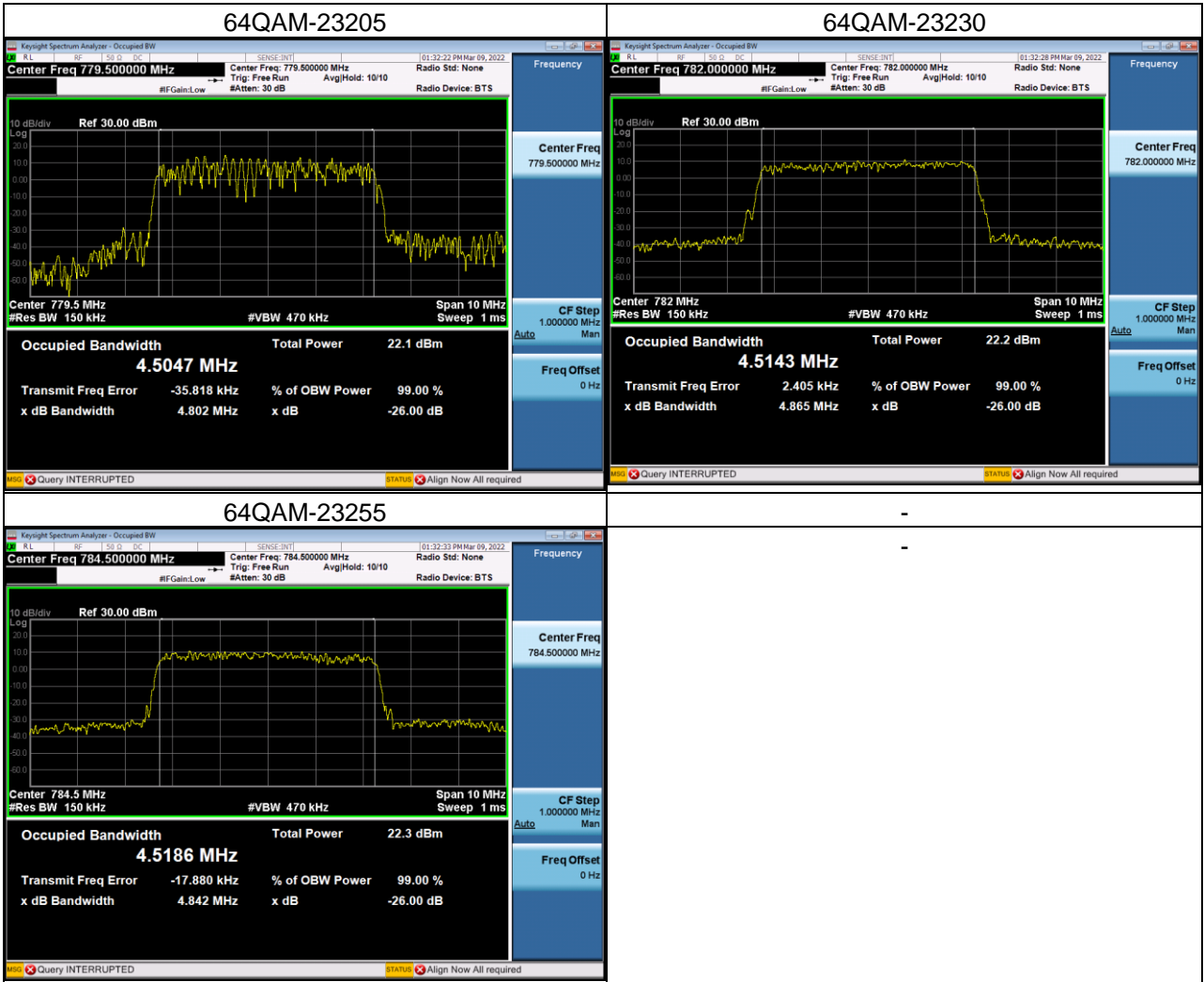




| LTE Band 13_5M |                 |                              |         |                 |                      |
|----------------|-----------------|------------------------------|---------|-----------------|----------------------|
| QPSK           |                 |                              |         |                 |                      |
| Channel        | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
| 23205          | 779.5           | 4.4223                       | 23205   | 779.5           | 4.735                |
| 23230          | 782.0           | 4.5260                       | 23230   | 782.0           | 4.886                |
| 23255          | 784.5           | 4.5075                       | 23255   | 784.5           | 4.807                |
| 16QAM          |                 |                              |         |                 |                      |
| Channel        | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
| 23205          | 779.5           | 4.5174                       | 23205   | 779.5           | 4.882                |
| 23230          | 782.0           | 4.5281                       | 23230   | 782.0           | 4.831                |
| 23255          | 784.5           | 4.4633                       | 23255   | 784.5           | 4.808                |
| 64QAM          |                 |                              |         |                 |                      |
| Channel        | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
| 23205          | 779.5           | 4.5047                       | 23205   | 779.5           | 4.802                |
| 23230          | 782.0           | 4.5143                       | 23230   | 782.0           | 4.865                |
| 23255          | 784.5           | 4.5186                       | 23255   | 784.5           | 4.482                |

## Spectrum Plot

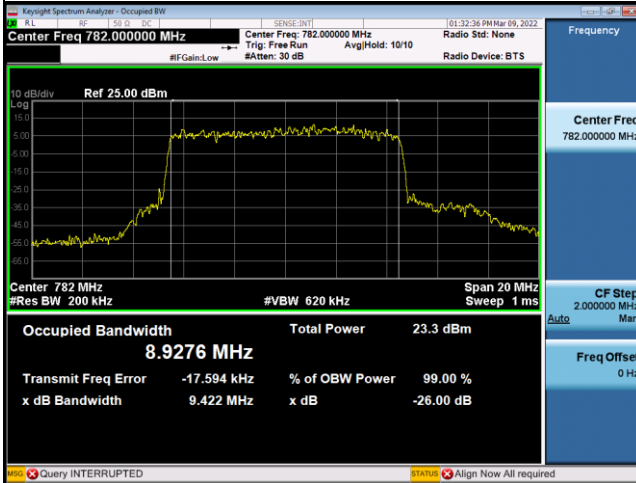




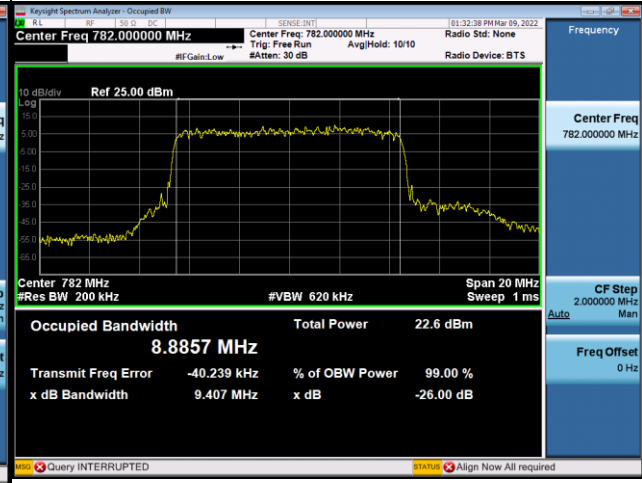
| LTE Band 13_10M |                 |                              |         |                 |                      |
|-----------------|-----------------|------------------------------|---------|-----------------|----------------------|
| QPSK            |                 |                              |         |                 |                      |
| Channel         | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
| 23230           | 782.0           | 8.9276                       | 23230   | 782.0           | 9.422                |
| 16QAM           |                 |                              |         |                 |                      |
| Channel         | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
| 23230           | 782.0           | 8.8857                       | 23230   | 782.0           | 9.407                |
| 64QAM           |                 |                              |         |                 |                      |
| Channel         | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
| 23230           | 782.0           | 8.9026                       | 23230   | 782.0           | 9.382                |

## Spectrum Plot

### QPSK-23230



### 16QAM-23230



### 64QAM-23230

