

## Appendix Test Data for LTE band 12 (Conducted Measurement)

Product Name: GM-168

Trade Mark: /

Test Model: GM-168

FCC ID: 2BOH3-GM-168

### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.5℃     |
| Relative Humidity: | 58%       |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Allen Lai |
| Supervised by:     | Max Zhang |
| NOTE               | N/A       |

## Appendix A: RF output power

### Test Result

| Band | Bandwidth<br>(MHz) | UL Frequency<br>(MHz) | Modulation | RB Size | RB Offset | Average Power<br>(dBm) | Peak Power<br>(dBm) | PAR<br>(dB) | Limit<br>(dB) | AntGain<br>(dBi) | ERP<br>(dBm) | Limit<br>(dBm) | Conclusion |
|------|--------------------|-----------------------|------------|---------|-----------|------------------------|---------------------|-------------|---------------|------------------|--------------|----------------|------------|
| 12   | 1.4                | 699.7                 | QPSK       | 6       | LOW       | 21.22                  | 20.21               | -1.01       | 13            | -1.54            | 17.53        | 34.8           | Pass       |
| 12   | 1.4                | 699.7                 | QPSK       | 3       | LOW       | 21.21                  | 19.91               | -1.30       | 13            | -1.54            | 17.52        | 34.8           | Pass       |
| 12   | 1.4                | 699.7                 | QPSK       | 3       | MID       | 20.44                  | 19.91               | -0.53       | 13            | -1.54            | 16.75        | 34.8           | Pass       |
| 12   | 1.4                | 699.7                 | QPSK       | 3       | HIGH      | 21.04                  | 20.02               | -1.02       | 13            | -1.54            | 17.35        | 34.8           | Pass       |
| 12   | 1.4                | 699.7                 | QPSK       | 1       | LOW       | 20.67                  | 19.51               | -1.16       | 13            | -1.54            | 16.98        | 34.8           | Pass       |
| 12   | 1.4                | 699.7                 | QPSK       | 1       | MID       | 21.94                  | 27.92               | 5.98        | 13            | -1.54            | 18.25        | 34.8           | Pass       |
| 12   | 1.4                | 699.7                 | QPSK       | 1       | HIGH      | 22.1                   | 27.92               | 5.82        | 13            | -1.54            | 18.41        | 34.8           | Pass       |
| 12   | 1.4                | 699.7                 | 16QAM      | 6       | LOW       | 20.22                  | 27.64               | 7.42        | 13            | -1.54            | 16.53        | 34.8           | Pass       |
| 12   | 1.4                | 699.7                 | 16QAM      | 3       | LOW       | 21.2                   | 27.54               | 6.34        | 13            | -1.54            | 17.51        | 34.8           | Pass       |
| 12   | 1.4                | 699.7                 | 16QAM      | 3       | MID       | 21.18                  | 27.51               | 6.33        | 13            | -1.54            | 17.49        | 34.8           | Pass       |
| 12   | 1.4                | 699.7                 | 16QAM      | 3       | HIGH      | 21.38                  | 27.72               | 6.34        | 13            | -1.54            | 17.69        | 34.8           | Pass       |
| 12   | 1.4                | 699.7                 | 16QAM      | 1       | LOW       | 20.93                  | 26.79               | 5.86        | 13            | -1.54            | 17.24        | 34.8           | Pass       |
| 12   | 1.4                | 699.7                 | 16QAM      | 1       | MID       | 21.08                  | 27.03               | 5.95        | 13            | -1.54            | 17.39        | 34.8           | Pass       |
| 12   | 1.4                | 699.7                 | 16QAM      | 1       | HIGH      | 21.24                  | 27.12               | 5.88        | 13            | -1.54            | 17.55        | 34.8           | Pass       |
| 12   | 1.4                | 707.5                 | QPSK       | 6       | LOW       | 21.05                  | 27.34               | 6.29        | 13            | -1.54            | 17.36        | 34.8           | Pass       |
| 12   | 1.4                | 707.5                 | QPSK       | 3       | LOW       | 21.92                  | 27.78               | 5.86        | 13            | -1.54            | 18.23        | 34.8           | Pass       |
| 12   | 1.4                | 707.5                 | QPSK       | 3       | MID       | 21.89                  | 27.77               | 5.88        | 13            | -1.54            | 18.20        | 34.8           | Pass       |
| 12   | 1.4                | 707.5                 | QPSK       | 3       | HIGH      | 22.05                  | 27.95               | 5.90        | 13            | -1.54            | 18.36        | 34.8           | Pass       |
| 12   | 1.4                | 707.5                 | QPSK       | 1       | LOW       | 21.77                  | 27.71               | 5.94        | 13            | -1.54            | 18.08        | 34.8           | Pass       |
| 12   | 1.4                | 707.5                 | QPSK       | 1       | MID       | 21.92                  | 27.89               | 5.97        | 13            | -1.54            | 18.23        | 34.8           | Pass       |
| 12   | 1.4                | 707.5                 | QPSK       | 1       | HIGH      | 22.12                  | 27.9                | 5.78        | 13            | -1.54            | 18.43        | 34.8           | Pass       |
| 12   | 1.4                | 707.5                 | 16QAM      | 6       | LOW       | 20.12                  | 27.55               | 7.43        | 13            | -1.54            | 16.43        | 34.8           | Pass       |

| Band | Bandwidth<br>(MHz) | UL Frequency<br>(MHz) | Modulation | RB Size | RB Offset | Average Power<br>(dBm) | Peak Power<br>(dBm) | PAR<br>(dB) | Limit<br>(dB) | AntGain<br>(dBi) | ERP<br>(dBm) | Limit<br>(dBm) | Conclusion |
|------|--------------------|-----------------------|------------|---------|-----------|------------------------|---------------------|-------------|---------------|------------------|--------------|----------------|------------|
| 12   | 1.4                | 707.5                 | 16QAM      | 3       | LOW       | 21.11                  | 27.44               | 6.33        | 13            | -1.54            | 17.42        | 34.8           | Pass       |
| 12   | 1.4                | 707.5                 | 16QAM      | 3       | MID       | 21.11                  | 27.44               | 6.33        | 13            | -1.54            | 17.42        | 34.8           | Pass       |
| 12   | 1.4                | 707.5                 | 16QAM      | 3       | HIGH      | 21.33                  | 27.68               | 6.35        | 13            | -1.54            | 17.64        | 34.8           | Pass       |
| 12   | 1.4                | 707.5                 | 16QAM      | 1       | LOW       | 20.85                  | 26.72               | 5.87        | 13            | -1.54            | 17.16        | 34.8           | Pass       |
| 12   | 1.4                | 707.5                 | 16QAM      | 1       | MID       | 21.11                  | 27.06               | 5.95        | 13            | -1.54            | 17.42        | 34.8           | Pass       |
| 12   | 1.4                | 707.5                 | 16QAM      | 1       | HIGH      | 21.3                   | 27.17               | 5.87        | 13            | -1.54            | 17.61        | 34.8           | Pass       |
| 12   | 1.4                | 715.3                 | QPSK       | 6       | LOW       | 20.57                  | 26.06               | 5.49        | 13            | -1.54            | 16.88        | 34.8           | Pass       |
| 12   | 1.4                | 715.3                 | QPSK       | 3       | LOW       | 21.55                  | 26.48               | 4.93        | 13            | -1.54            | 17.86        | 34.8           | Pass       |
| 12   | 1.4                | 715.3                 | QPSK       | 3       | MID       | 21.5                   | 26.46               | 4.96        | 13            | -1.54            | 17.81        | 34.8           | Pass       |
| 12   | 1.4                | 715.3                 | QPSK       | 3       | HIGH      | 21.03                  | 26.26               | 5.23        | 13            | -1.54            | 17.34        | 34.8           | Pass       |
| 12   | 1.4                | 715.3                 | QPSK       | 1       | LOW       | 21.64                  | 26.28               | 4.64        | 13            | -1.54            | 17.95        | 34.8           | Pass       |
| 12   | 1.4                | 715.3                 | QPSK       | 1       | MID       | 21.1                   | 26.08               | 4.98        | 13            | -1.54            | 17.41        | 34.8           | Pass       |
| 12   | 1.4                | 715.3                 | QPSK       | 1       | HIGH      | 20.92                  | 25.9                | 4.98        | 13            | -1.54            | 17.23        | 34.8           | Pass       |
| 12   | 1.4                | 715.3                 | 16QAM      | 6       | LOW       | 19.63                  | 25.62               | 5.99        | 13            | -1.54            | 15.94        | 34.8           | Pass       |
| 12   | 1.4                | 715.3                 | 16QAM      | 3       | LOW       | 20.67                  | 26.47               | 5.80        | 13            | -1.54            | 16.98        | 34.8           | Pass       |
| 12   | 1.4                | 715.3                 | 16QAM      | 3       | MID       | 20.66                  | 26.47               | 5.81        | 13            | -1.54            | 16.97        | 34.8           | Pass       |
| 12   | 1.4                | 715.3                 | 16QAM      | 3       | HIGH      | 20.26                  | 26.22               | 5.96        | 13            | -1.54            | 16.57        | 34.8           | Pass       |
| 12   | 1.4                | 715.3                 | 16QAM      | 1       | LOW       | 20.95                  | 25.49               | 4.54        | 13            | -1.54            | 17.26        | 34.8           | Pass       |
| 12   | 1.4                | 715.3                 | 16QAM      | 1       | MID       | 20.48                  | 25.24               | 4.76        | 13            | -1.54            | 16.79        | 34.8           | Pass       |
| 12   | 1.4                | 715.3                 | 16QAM      | 1       | HIGH      | 20.24                  | 24.96               | 4.72        | 13            | -1.54            | 16.55        | 34.8           | Pass       |
| 12   | 3                  | 700.5                 | QPSK       | 15      | LOW       | 22.76                  | 28.16               | 5.40        | 13            | -1.54            | 19.07        | 34.8           | Pass       |
| 12   | 3                  | 700.5                 | QPSK       | 8       | LOW       | 22.8                   | 27.87               | 5.07        | 13            | -1.54            | 19.11        | 34.8           | Pass       |
| 12   | 3                  | 700.5                 | QPSK       | 8       | MID       | 22.78                  | 27.87               | 5.09        | 13            | -1.54            | 19.09        | 34.8           | Pass       |
| 12   | 3                  | 700.5                 | QPSK       | 8       | HIGH      | 22.79                  | 27.72               | 4.93        | 13            | -1.54            | 19.1         | 34.8           | Pass       |
| 12   | 3                  | 700.5                 | QPSK       | 1       | LOW       | 23.33                  | 27.58               | 4.25        | 13            | -1.54            | 19.64        | 34.8           | Pass       |
| 12   | 3                  | 700.5                 | QPSK       | 1       | MID       | 23.58                  | 27.54               | 3.96        | 13            | -1.54            | 19.89        | 34.8           | Pass       |
| 12   | 3                  | 700.5                 | QPSK       | 1       | HIGH      | 23.54                  | 27.4                | 3.86        | 13            | -1.54            | 19.85        | 34.8           | Pass       |
| 12   | 3                  | 700.5                 | 16QAM      | 15      | LOW       | 21.78                  | 28.33               | 6.55        | 13            | -1.54            | 18.09        | 34.8           | Pass       |
| 12   | 3                  | 700.5                 | 16QAM      | 8       | LOW       | 21.89                  | 27.99               | 6.10        | 13            | -1.54            | 18.20        | 34.8           | Pass       |
| 12   | 3                  | 700.5                 | 16QAM      | 8       | MID       | 21.88                  | 27.97               | 6.09        | 13            | -1.54            | 18.19        | 34.8           | Pass       |
| 12   | 3                  | 700.5                 | 16QAM      | 8       | HIGH      | 21.93                  | 27.88               | 5.95        | 13            | -1.54            | 18.24        | 34.8           | Pass       |
| 12   | 3                  | 700.5                 | 16QAM      | 1       | LOW       | 22.95                  | 27.76               | 4.81        | 13            | -1.54            | 19.26        | 34.8           | Pass       |
| 12   | 3                  | 700.5                 | 16QAM      | 1       | MID       | 23.21                  | 27.7                | 4.49        | 13            | -1.54            | 19.52        | 34.8           | Pass       |
| 12   | 3                  | 700.5                 | 16QAM      | 1       | HIGH      | 23.08                  | 27.6                | 4.52        | 13            | -1.54            | 19.39        | 34.8           | Pass       |
| 12   | 3                  | 707.5                 | QPSK       | 15      | LOW       | 21.16                  | 27.2                | 6.04        | 13            | -1.54            | 17.47        | 34.8           | Pass       |
| 12   | 3                  | 707.5                 | QPSK       | 8       | LOW       | 20.91                  | 27.13               | 6.22        | 13            | -1.54            | 17.22        | 34.8           | Pass       |
| 12   | 3                  | 707.5                 | QPSK       | 8       | MID       | 20.9                   | 27.11               | 6.21        | 13            | -1.54            | 17.21        | 34.8           | Pass       |
| 12   | 3                  | 707.5                 | QPSK       | 8       | HIGH      | 21.38                  | 27.37               | 5.99        | 13            | -1.54            | 17.69        | 34.8           | Pass       |
| 12   | 3                  | 707.5                 | QPSK       | 1       | LOW       | 21.72                  | 27.13               | 5.41        | 13            | -1.54            | 18.03        | 34.8           | Pass       |
| 12   | 3                  | 707.5                 | QPSK       | 1       | MID       | 21.98                  | 27.5                | 5.52        | 13            | -1.54            | 18.29        | 34.8           | Pass       |
| 12   | 3                  | 707.5                 | QPSK       | 1       | HIGH      | 22.57                  | 27.74               | 5.17        | 13            | -1.54            | 18.88        | 34.8           | Pass       |

| Band | Bandwidth<br>(MHz) | UL Frequency<br>(MHz) | Modulation | RB Size | RB Offset | Average Power<br>(dBm) | Peak Power<br>(dBm) | PAR<br>(dB) | Limit<br>(dB) | AntGain<br>(dBi) | ERP<br>(dBm) | Limit<br>(dBm) | Conclusion |
|------|--------------------|-----------------------|------------|---------|-----------|------------------------|---------------------|-------------|---------------|------------------|--------------|----------------|------------|
| 12   | 3                  | 707.5                 | 16QAM      | 15      | LOW       | 20.17                  | 26.76               | 6.59        | 13            | -1.54            | 16.48        | 34.8           | Pass       |
| 12   | 3                  | 707.5                 | 16QAM      | 8       | LOW       | 19.91                  | 26.36               | 6.45        | 13            | -1.54            | 16.22        | 34.8           | Pass       |
| 12   | 3                  | 707.5                 | 16QAM      | 8       | MID       | 19.92                  | 26.36               | 6.44        | 13            | -1.54            | 16.23        | 34.8           | Pass       |
| 12   | 3                  | 707.5                 | 16QAM      | 8       | HIGH      | 20.41                  | 26.9                | 6.49        | 13            | -1.54            | 16.72        | 34.8           | Pass       |
| 12   | 3                  | 707.5                 | 16QAM      | 1       | LOW       | 20.89                  | 25.8                | 4.91        | 13            | -1.54            | 17.20        | 34.8           | Pass       |
| 12   | 3                  | 707.5                 | 16QAM      | 1       | MID       | 21.16                  | 26.12               | 4.96        | 13            | -1.54            | 17.47        | 34.8           | Pass       |
| 12   | 3                  | 707.5                 | 16QAM      | 1       | HIGH      | 21.73                  | 26.67               | 4.94        | 13            | -1.54            | 18.04        | 34.8           | Pass       |
| 12   | 3                  | 714.5                 | QPSK       | 15      | LOW       | 21.52                  | 27.36               | 5.84        | 13            | -1.54            | 17.83        | 34.8           | Pass       |
| 12   | 3                  | 714.5                 | QPSK       | 8       | LOW       | 22.1                   | 27.14               | 5.04        | 13            | -1.54            | 18.41        | 34.8           | Pass       |
| 12   | 3                  | 714.5                 | QPSK       | 8       | MID       | 22.09                  | 27.13               | 5.04        | 13            | -1.54            | 18.40        | 34.8           | Pass       |
| 12   | 3                  | 714.5                 | QPSK       | 8       | HIGH      | 20.77                  | 26.14               | 5.37        | 13            | -1.54            | 17.08        | 34.8           | Pass       |
| 12   | 3                  | 714.5                 | QPSK       | 1       | LOW       | 23.4                   | 27.08               | 3.68        | 13            | -1.54            | 19.71        | 34.8           | Pass       |
| 12   | 3                  | 714.5                 | QPSK       | 1       | MID       | 21.82                  | 26.19               | 4.37        | 13            | -1.54            | 18.13        | 34.8           | Pass       |
| 12   | 3                  | 714.5                 | QPSK       | 1       | HIGH      | 20.88                  | 25.54               | 4.66        | 13            | -1.54            | 17.19        | 34.8           | Pass       |
| 12   | 3                  | 714.5                 | 16QAM      | 15      | LOW       | 20.59                  | 27.08               | 6.49        | 13            | -1.54            | 16.90        | 34.8           | Pass       |
| 12   | 3                  | 714.5                 | 16QAM      | 8       | LOW       | 21.23                  | 26.89               | 5.66        | 13            | -1.54            | 17.54        | 34.8           | Pass       |
| 12   | 3                  | 714.5                 | 16QAM      | 8       | MID       | 21.25                  | 26.79               | 5.54        | 13            | -1.54            | 17.56        | 34.8           | Pass       |
| 12   | 3                  | 714.5                 | 16QAM      | 8       | HIGH      | 19.97                  | 25.74               | 5.77        | 13            | -1.54            | 16.28        | 34.8           | Pass       |
| 12   | 3                  | 714.5                 | 16QAM      | 1       | LOW       | 22.64                  | 26.9                | 4.26        | 13            | -1.54            | 18.95        | 34.8           | Pass       |
| 12   | 3                  | 714.5                 | 16QAM      | 1       | MID       | 21.1                   | 25.97               | 4.87        | 13            | -1.54            | 17.41        | 34.8           | Pass       |
| 12   | 3                  | 714.5                 | 16QAM      | 1       | HIGH      | 20.12                  | 25.17               | 5.05        | 13            | -1.54            | 16.43        | 34.8           | Pass       |
| 12   | 5                  | 701.5                 | QPSK       | 25      | LOW       | 22.66                  | 28.11               | 5.45        | 13            | -1.54            | 18.97        | 34.8           | Pass       |
| 12   | 5                  | 701.5                 | QPSK       | 12      | LOW       | 22.82                  | 27.82               | 5           | 13            | -1.54            | 19.13        | 34.8           | Pass       |
| 12   | 5                  | 701.5                 | QPSK       | 12      | MID       | 22.79                  | 27.81               | 5.02        | 13            | -1.54            | 19.1         | 34.8           | Pass       |
| 12   | 5                  | 701.5                 | QPSK       | 12      | HIGH      | 22.45                  | 27.41               | 4.96        | 13            | -1.54            | 18.76        | 34.8           | Pass       |
| 12   | 5                  | 701.5                 | QPSK       | 1       | LOW       | 23.53                  | 27.77               | 4.24        | 13            | -1.54            | 19.84        | 34.8           | Pass       |
| 12   | 5                  | 701.5                 | QPSK       | 1       | MID       | 23.61                  | 27.71               | 4.10        | 13            | -1.54            | 19.92        | 34.8           | Pass       |
| 12   | 5                  | 701.5                 | QPSK       | 1       | HIGH      | 22.84                  | 27.61               | 4.77        | 13            | -1.54            | 19.15        | 34.8           | Pass       |
| 12   | 5                  | 701.5                 | 16QAM      | 25      | LOW       | 21.58                  | 28.23               | 6.65        | 13            | -1.54            | 17.89        | 34.8           | Pass       |
| 12   | 5                  | 701.5                 | 16QAM      | 12      | LOW       | 21.74                  | 27.95               | 6.21        | 13            | -1.54            | 18.05        | 34.8           | Pass       |
| 12   | 5                  | 701.5                 | 16QAM      | 12      | MID       | 21.73                  | 27.99               | 6.26        | 13            | -1.54            | 18.04        | 34.8           | Pass       |
| 12   | 5                  | 701.5                 | 16QAM      | 12      | HIGH      | 21.44                  | 27.81               | 6.37        | 13            | -1.54            | 17.75        | 34.8           | Pass       |
| 12   | 5                  | 701.5                 | 16QAM      | 1       | LOW       | 22.52                  | 27.4                | 4.88        | 13            | -1.54            | 18.83        | 34.8           | Pass       |
| 12   | 5                  | 701.5                 | 16QAM      | 1       | MID       | 22.62                  | 27.25               | 4.63        | 13            | -1.54            | 18.93        | 34.8           | Pass       |
| 12   | 5                  | 701.5                 | 16QAM      | 1       | HIGH      | 21.8                   | 26.82               | 5.02        | 13            | -1.54            | 18.11        | 34.8           | Pass       |
| 12   | 5                  | 707.5                 | QPSK       | 25      | LOW       | 21.37                  | 28.13               | 6.76        | 13            | -1.54            | 17.68        | 34.8           | Pass       |
| 12   | 5                  | 707.5                 | QPSK       | 12      | LOW       | 20.95                  | 27.23               | 6.28        | 13            | -1.54            | 17.26        | 34.8           | Pass       |
| 12   | 5                  | 707.5                 | QPSK       | 12      | MID       | 20.94                  | 27.29               | 6.35        | 13            | -1.54            | 17.25        | 34.8           | Pass       |
| 12   | 5                  | 707.5                 | QPSK       | 12      | HIGH      | 21.7                   | 27.91               | 6.21        | 13            | -1.54            | 18.01        | 34.8           | Pass       |
| 12   | 5                  | 707.5                 | QPSK       | 1       | LOW       | 22.09                  | 27.29               | 5.20        | 13            | -1.54            | 18.40        | 34.8           | Pass       |
| 12   | 5                  | 707.5                 | QPSK       | 1       | MID       | 22.07                  | 27.62               | 5.55        | 13            | -1.54            | 18.38        | 34.8           | Pass       |

| Band | Bandwidth<br>(MHz) | UL Frequency<br>(MHz) | Modulation | RB Size | RB Offset | Average Power<br>(dBm) | Peak Power<br>(dBm) | PAR<br>(dB) | Limit<br>(dB) | AntGain<br>(dBi) | ERP<br>(dBm) | Limit<br>(dBm) | Conclusion |
|------|--------------------|-----------------------|------------|---------|-----------|------------------------|---------------------|-------------|---------------|------------------|--------------|----------------|------------|
| 12   | 5                  | 707.5                 | QPSK       | 1       | HIGH      | 23.57                  | 27.88               | 4.31        | 13            | -1.54            | 19.88        | 34.8           | Pass       |
| 12   | 5                  | 707.5                 | 16QAM      | 25      | LOW       | 20.4                   | 27.78               | 7.38        | 13            | -1.54            | 16.71        | 34.8           | Pass       |
| 12   | 5                  | 707.5                 | 16QAM      | 12      | LOW       | 20.01                  | 26.75               | 6.74        | 13            | -1.54            | 16.32        | 34.8           | Pass       |
| 12   | 5                  | 707.5                 | 16QAM      | 12      | MID       | 20.02                  | 26.88               | 6.86        | 13            | -1.54            | 16.33        | 34.8           | Pass       |
| 12   | 5                  | 707.5                 | 16QAM      | 12      | HIGH      | 20.83                  | 27.65               | 6.82        | 13            | -1.54            | 17.14        | 34.8           | Pass       |
| 12   | 5                  | 707.5                 | 16QAM      | 1       | LOW       | 21.38                  | 26.99               | 5.61        | 13            | -1.54            | 17.69        | 34.8           | Pass       |
| 12   | 5                  | 707.5                 | 16QAM      | 1       | MID       | 21.38                  | 27.27               | 5.89        | 13            | -1.54            | 17.69        | 34.8           | Pass       |
| 12   | 5                  | 707.5                 | 16QAM      | 1       | HIGH      | 22.88                  | 27.81               | 4.93        | 13            | -1.54            | 19.19        | 34.8           | Pass       |
| 12   | 5                  | 713.5                 | QPSK       | 25      | LOW       | 22.42                  | 27.91               | 5.49        | 13            | -1.54            | 18.73        | 34.8           | Pass       |
| 12   | 5                  | 713.5                 | QPSK       | 12      | LOW       | 23.28                  | 27.82               | 4.54        | 13            | -1.54            | 19.59        | 34.8           | Pass       |
| 12   | 5                  | 713.5                 | QPSK       | 12      | MID       | 23.31                  | 27.86               | 4.55        | 13            | -1.54            | 19.62        | 34.8           | Pass       |
| 12   | 5                  | 713.5                 | QPSK       | 12      | HIGH      | 21.29                  | 26.43               | 5.14        | 13            | -1.54            | 17.6         | 34.8           | Pass       |
| 12   | 5                  | 713.5                 | QPSK       | 1       | LOW       | 24.54                  | 27.78               | 3.24        | 13            | -1.54            | 20.85        | 34.8           | Pass       |
| 12   | 5                  | 713.5                 | QPSK       | 1       | MID       | 22.92                  | 27.02               | 4.10        | 13            | -1.54            | 19.23        | 34.8           | Pass       |
| 12   | 5                  | 713.5                 | QPSK       | 1       | HIGH      | 21.11                  | 25.91               | 4.80        | 13            | -1.54            | 17.42        | 34.8           | Pass       |
| 12   | 5                  | 713.5                 | 16QAM      | 25      | LOW       | 21.58                  | 28.02               | 6.44        | 13            | -1.54            | 17.89        | 34.8           | Pass       |
| 12   | 5                  | 713.5                 | 16QAM      | 12      | LOW       | 22.43                  | 28.01               | 5.58        | 13            | -1.54            | 18.74        | 34.8           | Pass       |
| 12   | 5                  | 713.5                 | 16QAM      | 12      | MID       | 22.44                  | 28                  | 5.56        | 13            | -1.54            | 18.75        | 34.8           | Pass       |
| 12   | 5                  | 713.5                 | 16QAM      | 12      | HIGH      | 20.43                  | 26.38               | 5.95        | 13            | -1.54            | 16.74        | 34.8           | Pass       |
| 12   | 5                  | 713.5                 | 16QAM      | 1       | LOW       | 23.8                   | 27.78               | 3.98        | 13            | -1.54            | 20.11        | 34.8           | Pass       |
| 12   | 5                  | 713.5                 | 16QAM      | 1       | MID       | 22.25                  | 27.07               | 4.82        | 13            | -1.54            | 18.56        | 34.8           | Pass       |
| 12   | 5                  | 713.5                 | 16QAM      | 1       | HIGH      | 20.37                  | 25.88               | 5.51        | 13            | -1.54            | 16.68        | 34.8           | Pass       |
| 12   | 10                 | 704                   | QPSK       | 50      | LOW       | 21.85                  | 27.94               | 6.09        | 13            | -1.54            | 18.16        | 34.8           | Pass       |
| 12   | 10                 | 704                   | QPSK       | 25      | LOW       | 22.48                  | 27.86               | 5.38        | 13            | -1.54            | 18.79        | 34.8           | Pass       |
| 12   | 10                 | 704                   | QPSK       | 25      | MID       | 22.47                  | 27.9                | 5.43        | 13            | -1.54            | 18.78        | 34.8           | Pass       |
| 12   | 10                 | 704                   | QPSK       | 25      | HIGH      | 21.12                  | 27.54               | 6.42        | 13            | -1.54            | 17.43        | 34.8           | Pass       |
| 12   | 10                 | 704                   | QPSK       | 1       | LOW       | 23.46                  | 27.61               | 4.15        | 13            | -1.54            | 19.77        | 34.8           | Pass       |
| 12   | 10                 | 704                   | QPSK       | 1       | MID       | 22.54                  | 27.06               | 4.52        | 13            | -1.54            | 18.85        | 34.8           | Pass       |
| 12   | 10                 | 704                   | QPSK       | 1       | HIGH      | 22.41                  | 27.39               | 4.98        | 13            | -1.54            | 18.72        | 34.8           | Pass       |
| 12   | 10                 | 704                   | 16QAM      | 25      | LOW       | 21.39                  | 27.65               | 6.26        | 13            | -1.54            | 17.70        | 34.8           | Pass       |
| 12   | 10                 | 704                   | 16QAM      | 25      | MID       | 21.42                  | 27.71               | 6.29        | 13            | -1.54            | 17.73        | 34.8           | Pass       |
| 12   | 10                 | 704                   | 16QAM      | 25      | HIGH      | 20.18                  | 27.4                | 7.22        | 13            | -1.54            | 16.49        | 34.8           | Pass       |
| 12   | 10                 | 704                   | 16QAM      | 1       | LOW       | 23.07                  | 27.75               | 4.68        | 13            | -1.54            | 19.38        | 34.8           | Pass       |
| 12   | 10                 | 704                   | 16QAM      | 1       | MID       | 22.08                  | 27.56               | 5.48        | 13            | -1.54            | 18.39        | 34.8           | Pass       |
| 12   | 10                 | 704                   | 16QAM      | 1       | HIGH      | 22.06                  | 27.89               | 5.83        | 13            | -1.54            | 18.37        | 34.8           | Pass       |
| 12   | 10                 | 707.5                 | QPSK       | 50      | LOW       | 21.83                  | 28.07               | 6.24        | 13            | -1.54            | 18.14        | 34.8           | Pass       |
| 12   | 10                 | 707.5                 | QPSK       | 25      | LOW       | 21.2                   | 27.25               | 6.05        | 13            | -1.54            | 17.51        | 34.8           | Pass       |
| 12   | 10                 | 707.5                 | QPSK       | 25      | MID       | 21.19                  | 27.21               | 6.02        | 13            | -1.54            | 17.50        | 34.8           | Pass       |
| 12   | 10                 | 707.5                 | QPSK       | 25      | HIGH      | 22.36                  | 28.13               | 5.77        | 13            | -1.54            | 18.67        | 34.8           | Pass       |
| 12   | 10                 | 707.5                 | QPSK       | 1       | LOW       | 22.92                  | 27.38               | 4.46        | 13            | -1.54            | 19.23        | 34.8           | Pass       |
| 12   | 10                 | 707.5                 | QPSK       | 1       | MID       | 21.95                  | 27.42               | 5.47        | 13            | -1.54            | 18.26        | 34.8           | Pass       |

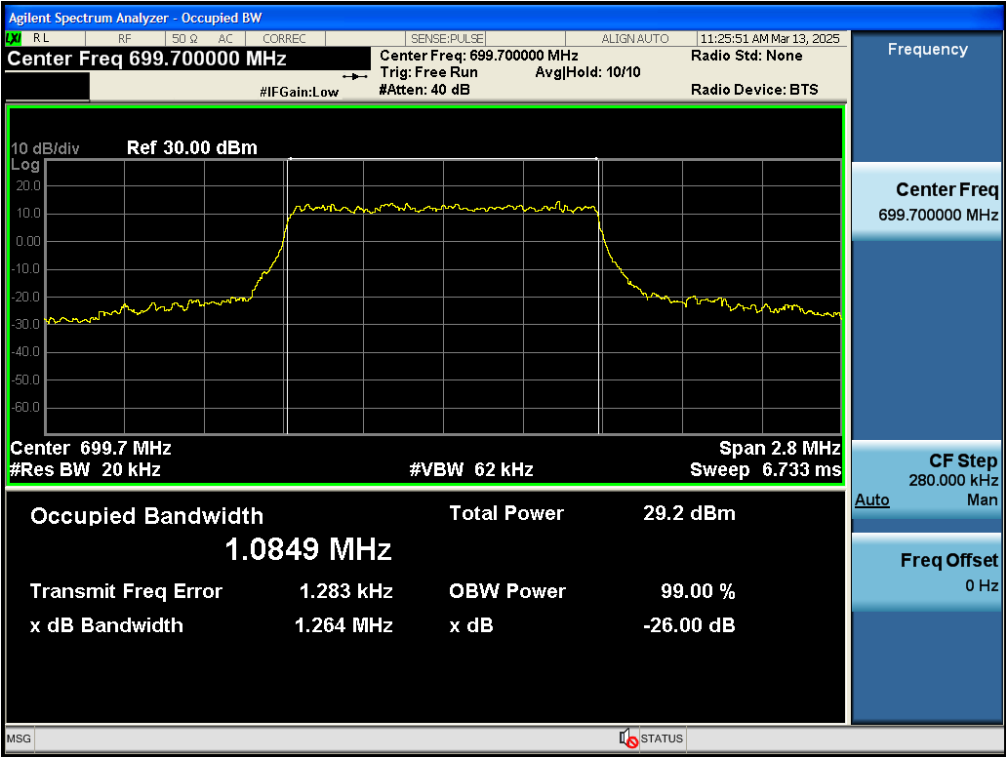
| Band | Bandwidth<br>(MHz) | UL Frequency<br>(MHz) | Modulation | RB Size | RB Offset | Average Power<br>(dBm) | Peak Power<br>(dBm) | PAR<br>(dB) | Limit<br>(dB) | AntGain<br>(dBi) | ERP<br>(dBm) | Limit<br>(dBm) | Conclusion |
|------|--------------------|-----------------------|------------|---------|-----------|------------------------|---------------------|-------------|---------------|------------------|--------------|----------------|------------|
| 12   | 10                 | 707.5                 | QPSK       | 1       | HIGH      | 24.44                  | 27.83               | 3.39        | 13            | -1.54            | 20.75        | 34.8           | Pass       |
| 12   | 10                 | 707.5                 | 16QAM      | 25      | LOW       | 20.11                  | 27.32               | 7.21        | 13            | -1.54            | 16.42        | 34.8           | Pass       |
| 12   | 10                 | 707.5                 | 16QAM      | 25      | MID       | 20.13                  | 27.36               | 7.23        | 13            | -1.54            | 16.44        | 34.8           | Pass       |
| 12   | 10                 | 707.5                 | 16QAM      | 25      | HIGH      | 21.5                   | 28.16               | 6.66        | 13            | -1.54            | 17.81        | 34.8           | Pass       |
| 12   | 10                 | 707.5                 | 16QAM      | 1       | LOW       | 22.1                   | 26.6                | 4.5         | 13            | -1.54            | 18.41        | 34.8           | Pass       |
| 12   | 10                 | 707.5                 | 16QAM      | 1       | MID       | 21.15                  | 26.09               | 4.94        | 13            | -1.54            | 17.46        | 34.8           | Pass       |
| 12   | 10                 | 707.5                 | 16QAM      | 1       | HIGH      | 23.83                  | 27.67               | 3.84        | 13            | -1.54            | 20.14        | 34.8           | Pass       |
| 12   | 10                 | 711                   | QPSK       | 50      | LOW       | 22.26                  | 27.71               | 5.45        | 13            | -1.54            | 18.57        | 34.8           | Pass       |
| 12   | 10                 | 711                   | QPSK       | 25      | LOW       | 21.8                   | 28.05               | 6.25        | 13            | -1.54            | 18.11        | 34.8           | Pass       |
| 12   | 10                 | 711                   | QPSK       | 25      | MID       | 21.78                  | 28.03               | 6.25        | 13            | -1.54            | 18.09        | 34.8           | Pass       |
| 12   | 10                 | 711                   | QPSK       | 25      | HIGH      | 22.62                  | 27.91               | 5.29        | 13            | -1.54            | 18.93        | 34.8           | Pass       |
| 12   | 10                 | 711                   | QPSK       | 1       | LOW       | 21.73                  | 26.64               | 4.91        | 13            | -1.54            | 18.04        | 34.8           | Pass       |
| 12   | 10                 | 711                   | QPSK       | 1       | MID       | 24.48                  | 27.81               | 3.33        | 13            | -1.54            | 20.79        | 34.8           | Pass       |
| 12   | 10                 | 711                   | QPSK       | 1       | HIGH      | 21.23                  | 25.73               | 4.5         | 13            | -1.54            | 17.54        | 34.8           | Pass       |
| 12   | 10                 | 711                   | 16QAM      | 25      | LOW       | 20.9                   | 27.98               | 7.08        | 13            | -1.54            | 17.21        | 34.8           | Pass       |
| 12   | 10                 | 711                   | 16QAM      | 25      | MID       | 20.91                  | 28.04               | 7.13        | 13            | -1.54            | 17.22        | 34.8           | Pass       |
| 12   | 10                 | 711                   | 16QAM      | 25      | HIGH      | 21.74                  | 27.62               | 5.88        | 13            | -1.54            | 18.05        | 34.8           | Pass       |
| 12   | 10                 | 711                   | 16QAM      | 1       | LOW       | 20.81                  | 26.11               | 5.30        | 13            | -1.54            | 17.12        | 34.8           | Pass       |
| 12   | 10                 | 711                   | 16QAM      | 1       | MID       | 23.54                  | 27.72               | 4.18        | 13            | -1.54            | 19.85        | 34.8           | Pass       |
| 12   | 10                 | 711                   | 16QAM      | 1       | HIGH      | 20.45                  | 25.43               | 4.98        | 13            | -1.54            | 16.76        | 34.8           | Pass       |

## Appendix B: Occupied bandwidth

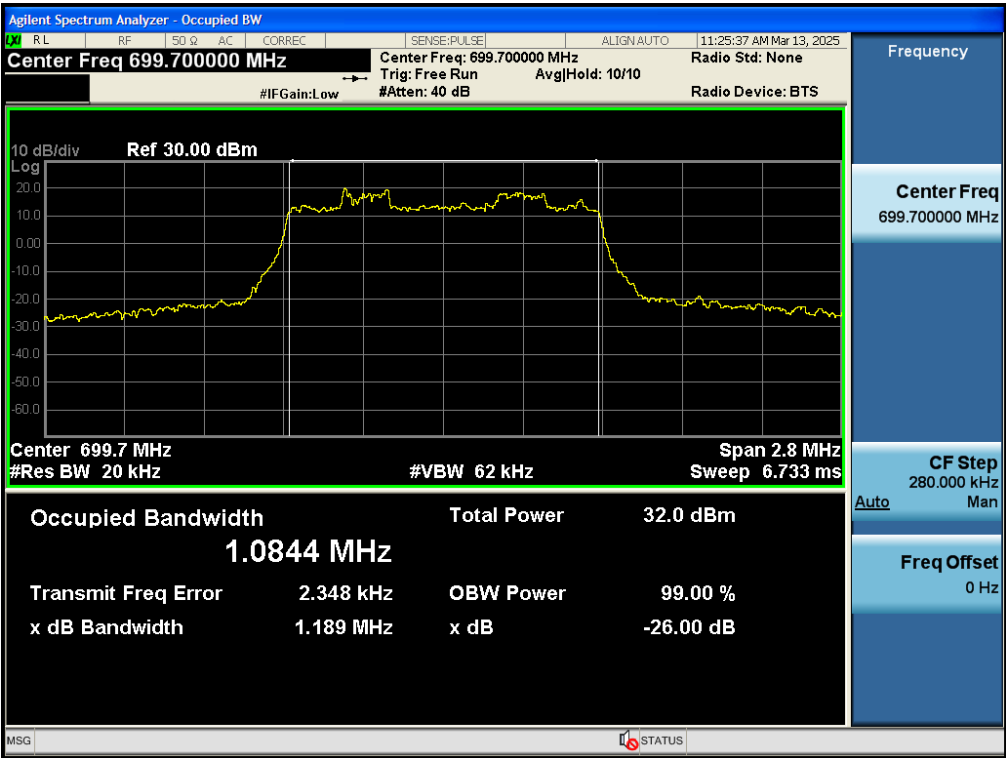
### Test Result

| Band | Bandwidth<br>(MHz) | UL Frequency<br>(MHz) | Modulation | RB Size | RB Offset | Occupied Bandwidth<br>(MHz) | Emission Bandwidth<br>(MHz) | Limit    |
|------|--------------------|-----------------------|------------|---------|-----------|-----------------------------|-----------------------------|----------|
| 12   | 1.4                | 699.7                 | QPSK       | 6       | LOW       | 1.084                       | 1.189                       | No limit |
| 12   | 1.4                | 699.7                 | 16QAM      | 6       | LOW       | 1.085                       | 1.264                       | No limit |
| 12   | 1.4                | 707.5                 | QPSK       | 6       | LOW       | 1.086                       | 1.258                       | No limit |
| 12   | 1.4                | 707.5                 | 16QAM      | 6       | LOW       | 1.088                       | 1.267                       | No limit |
| 12   | 1.4                | 715.3                 | QPSK       | 6       | LOW       | 1.086                       | 1.265                       | No limit |
| 12   | 1.4                | 715.3                 | 16QAM      | 6       | LOW       | 1.083                       | 1.23                        | No limit |
| 12   | 3                  | 700.5                 | QPSK       | 15      | LOW       | 2.656                       | 2.804                       | No limit |
| 12   | 3                  | 700.5                 | 16QAM      | 15      | LOW       | 2.642                       | 2.792                       | No limit |
| 12   | 3                  | 707.5                 | QPSK       | 15      | LOW       | 2.658                       | 2.804                       | No limit |
| 12   | 3                  | 707.5                 | 16QAM      | 15      | LOW       | 2.671                       | 2.803                       | No limit |
| 12   | 3                  | 714.5                 | QPSK       | 15      | LOW       | 2.69                        | 2.898                       | No limit |
| 12   | 3                  | 714.5                 | 16QAM      | 15      | LOW       | 2.67                        | 2.825                       | No limit |
| 12   | 5                  | 701.5                 | QPSK       | 25      | LOW       | 4.444                       | 4.654                       | No limit |
| 12   | 5                  | 701.5                 | 16QAM      | 25      | LOW       | 4.466                       | 4.906                       | No limit |
| 12   | 5                  | 707.5                 | QPSK       | 25      | LOW       | 4.493                       | 4.896                       | No limit |
| 12   | 5                  | 707.5                 | 16QAM      | 25      | LOW       | 4.489                       | 4.901                       | No limit |
| 12   | 5                  | 713.5                 | QPSK       | 25      | LOW       | 4.453                       | 4.832                       | No limit |
| 12   | 5                  | 713.5                 | 16QAM      | 25      | LOW       | 4.462                       | 4.875                       | No limit |
| 12   | 10                 | 704                   | QPSK       | 50      | LOW       | 8.85                        | 9.24                        | No limit |
| 12   | 10                 | 707.5                 | QPSK       | 50      | LOW       | 8.981                       | 9.649                       | No limit |
| 12   | 10                 | 711                   | QPSK       | 50      | LOW       | 8.871                       | 9.499                       | No limit |

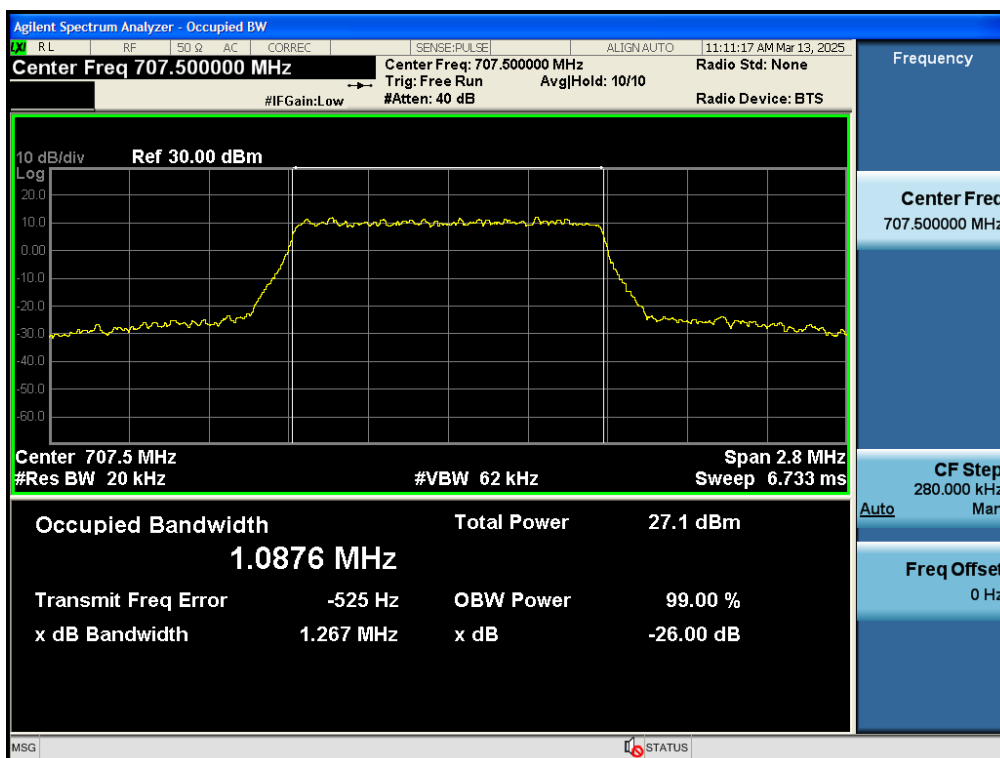
Test Graphs



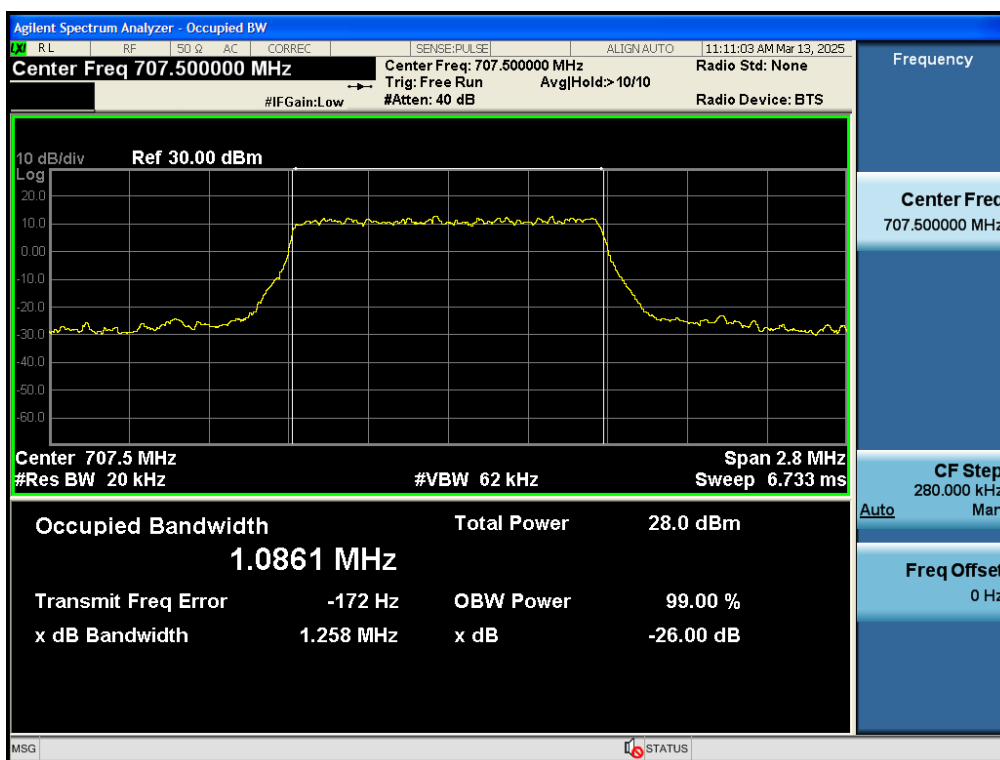
Test\_Graph\_band12\_699.7MHz\_1.4M\_16QAM\_6RB#LOW\_OBW&EBW



Test\_Graph\_band12\_699.7MHz\_1.4M\_QPSK\_6RB#LOW\_OBW&EBW

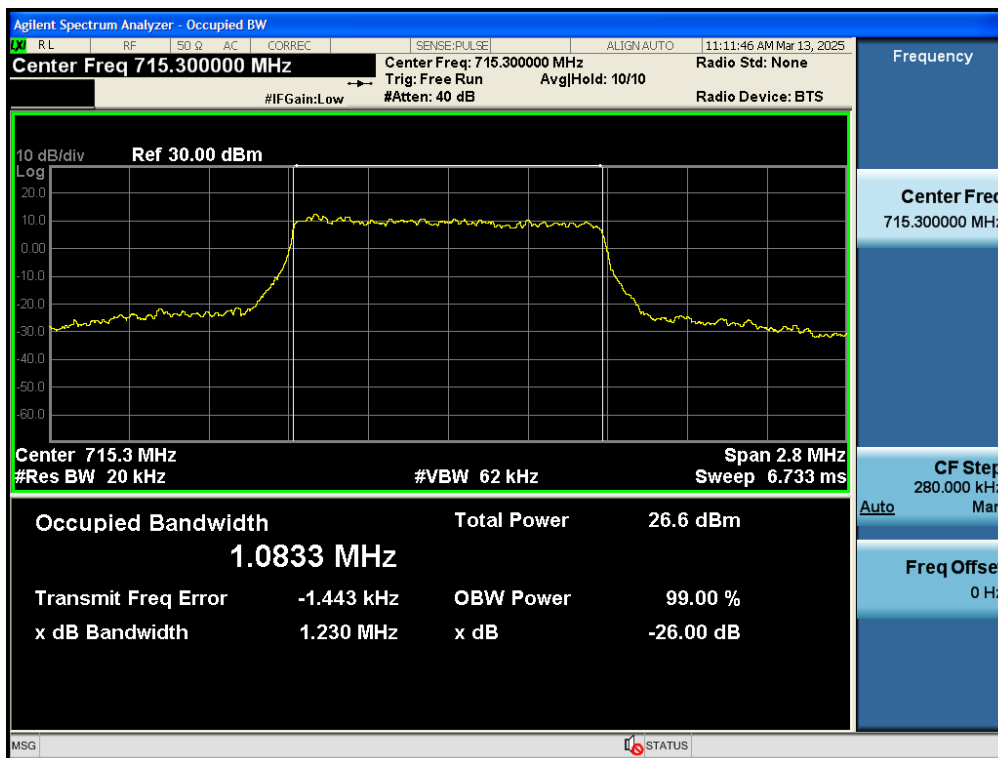


Test\_Graph\_band12\_707.5MHz\_1.4M\_16QAM\_6RB#LOW\_OBW&amp;EBW

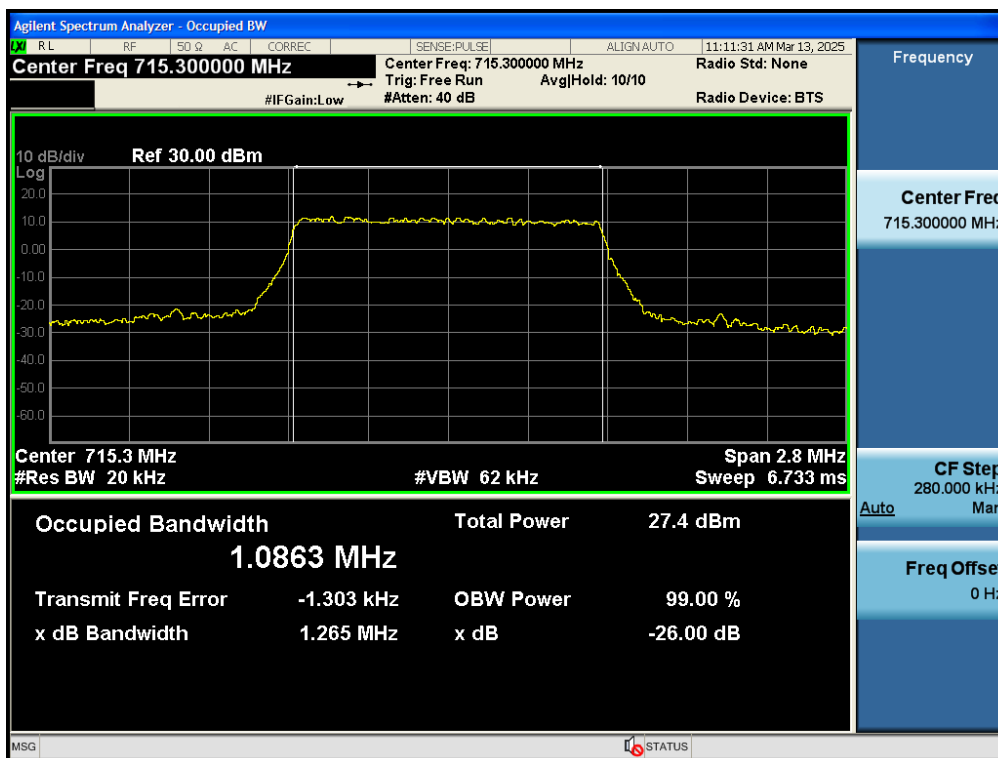


Test\_Graph\_band12\_707.5MHz\_1.4M\_QPSK\_6RB#LOW\_OBW&amp;EBW

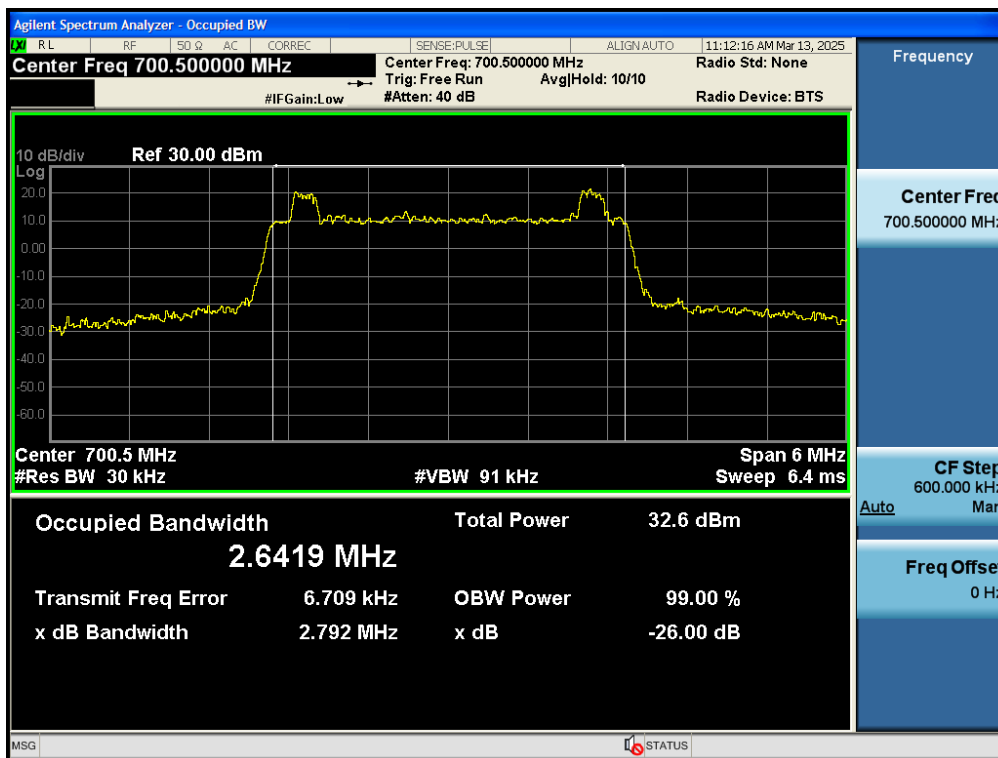




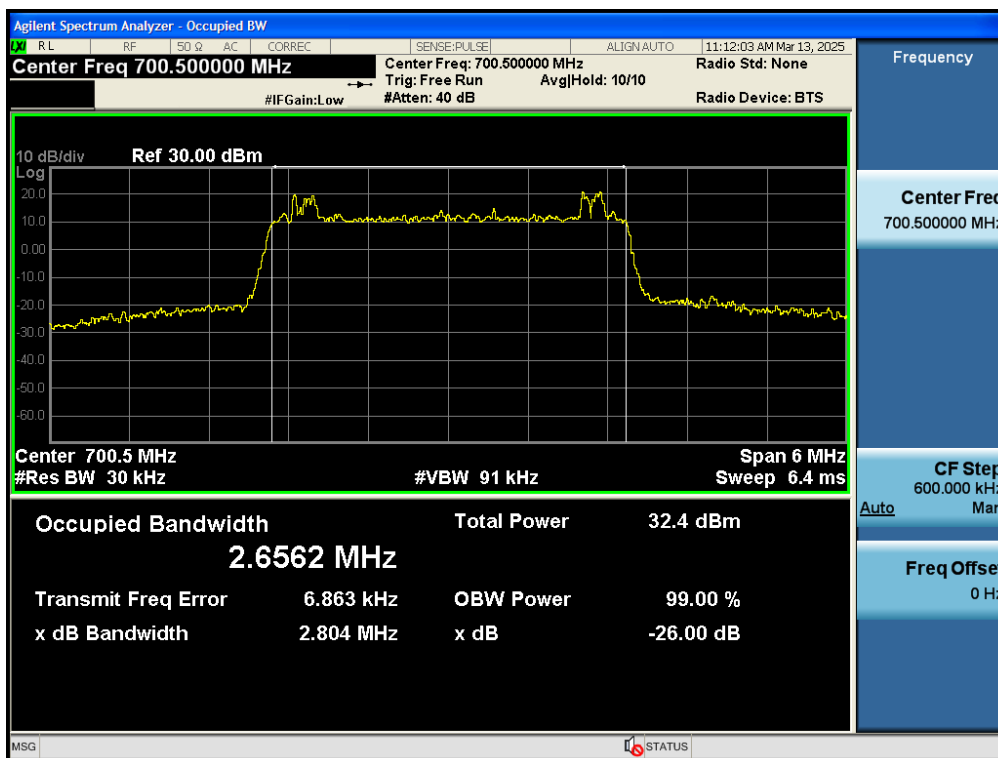
Test\_Graph\_band12\_715.3MHz\_1.4M\_16QAM\_6RB#LOW\_OBW&amp;EBW



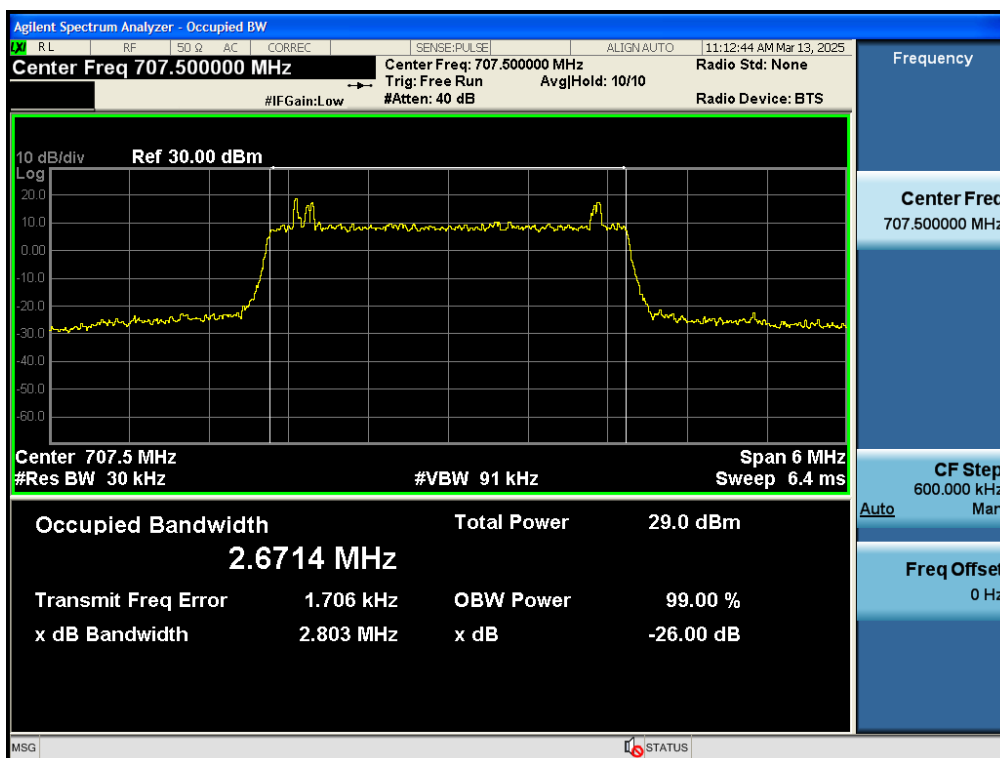
Test\_Graph\_band12\_715.3MHz\_1.4M\_QPSK\_6RB#LOW\_OBW&amp;EBW



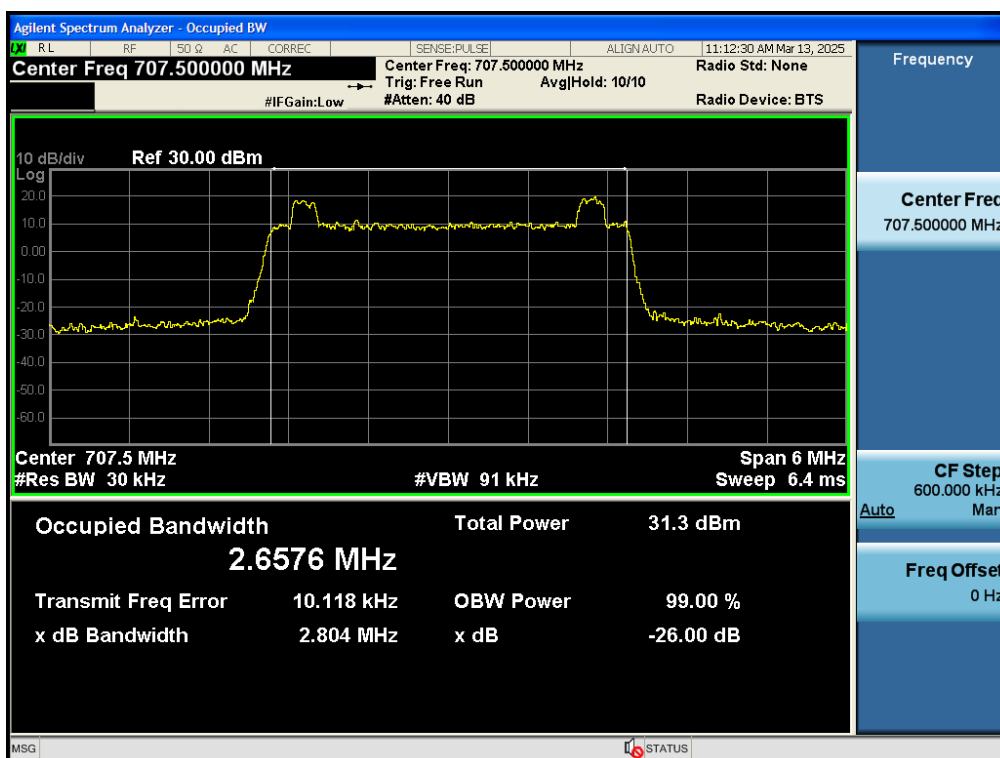
Test\_Graph\_band12\_700.5MHz\_3M\_16QAM\_15RB#LOW\_OBW&amp;EBW



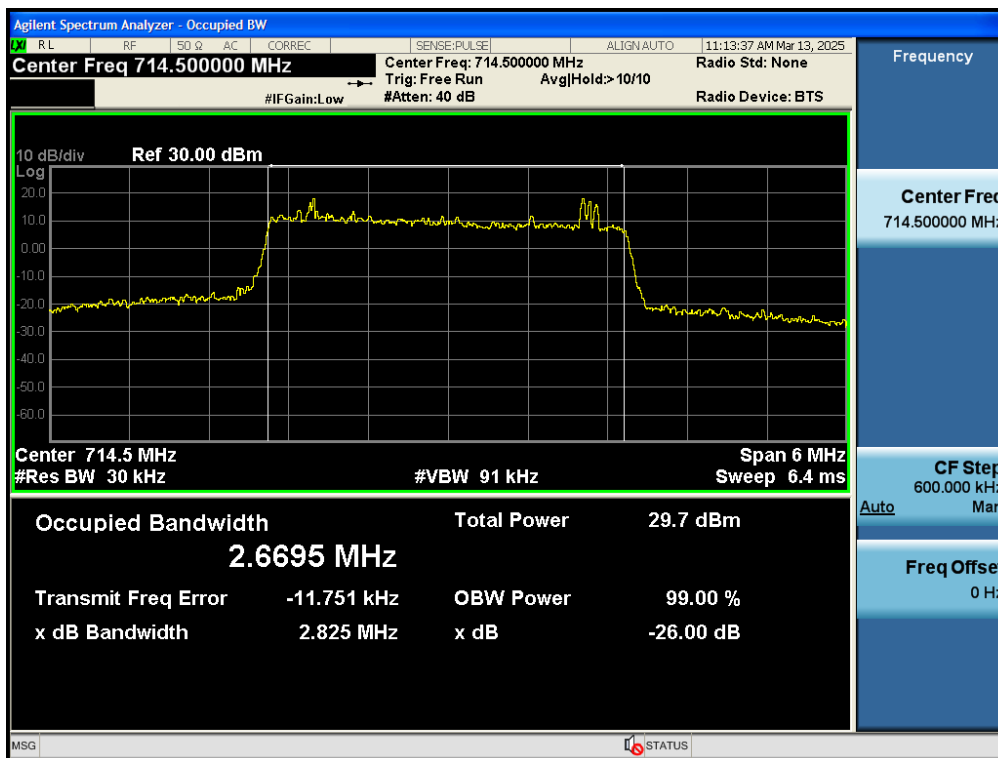
Test\_Graph\_band12\_700.5MHz\_3M\_QPSK\_15RB#LOW\_OBW&amp;EBW



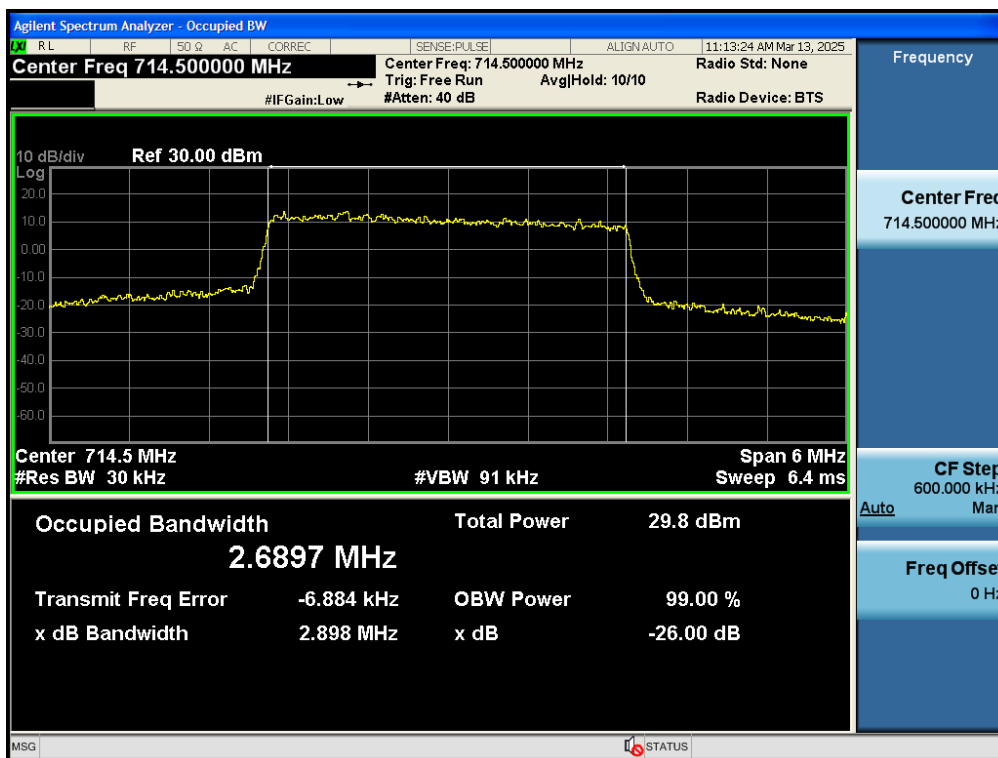
Test\_Graph\_band12\_707.5MHz\_3M\_16QAM\_15RB#LOW\_OBW&amp;EBW



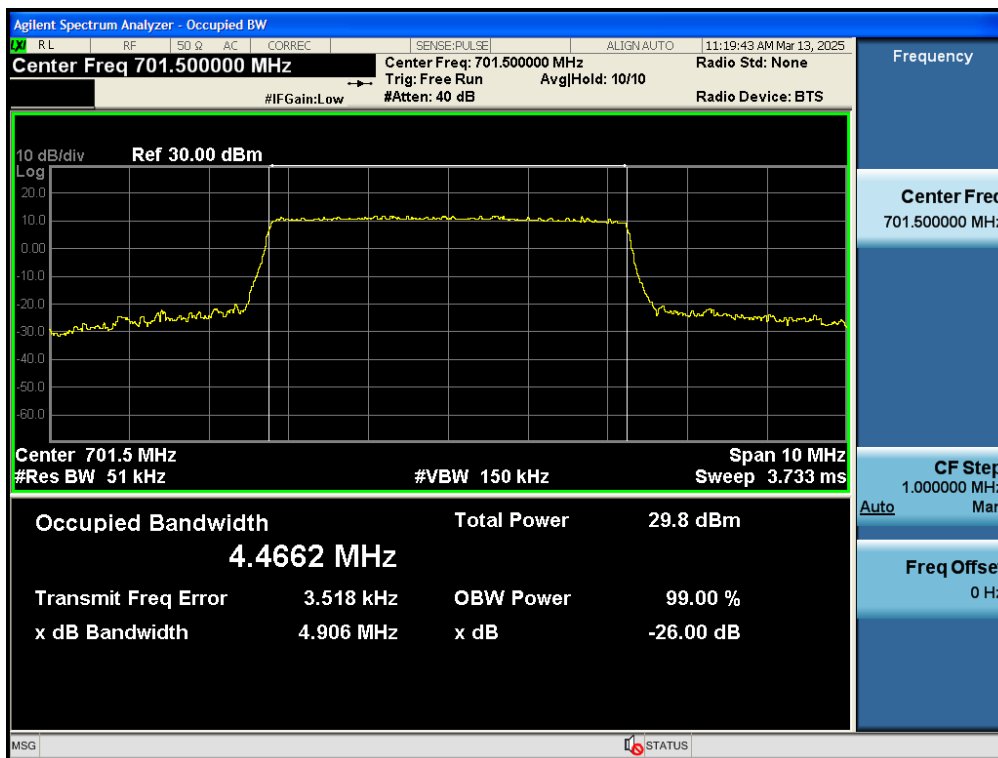
Test\_Graph\_band12\_707.5MHz\_3M\_QPSK\_15RB#LOW\_OBW&amp;EBW



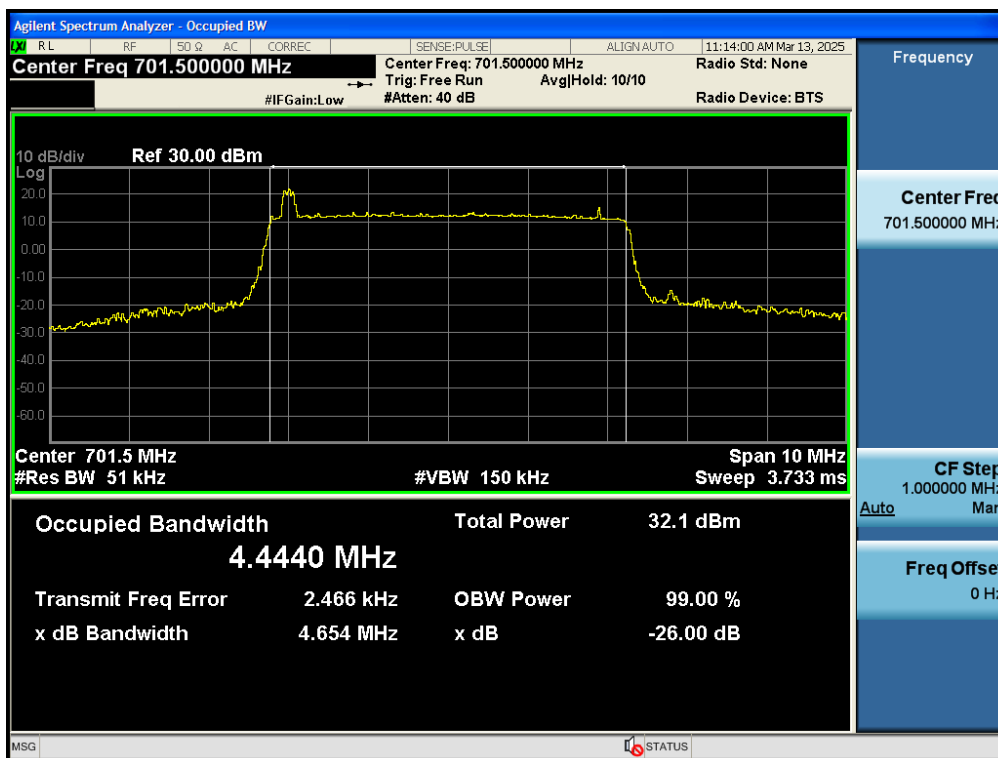
Test\_Graph\_band12\_714.5MHz\_3M\_16QAM\_15RB#LOW\_OBW&amp;EBW



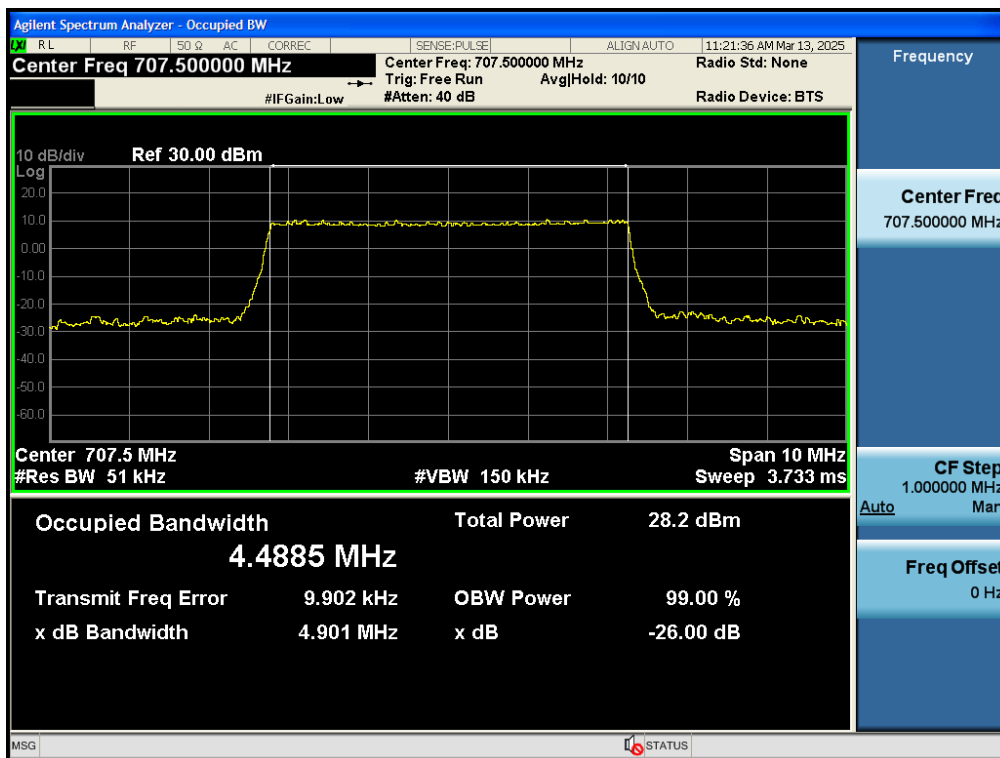
Test\_Graph\_band12\_714.5MHz\_3M\_QPSK\_15RB#LOW\_OBW&amp;EBW



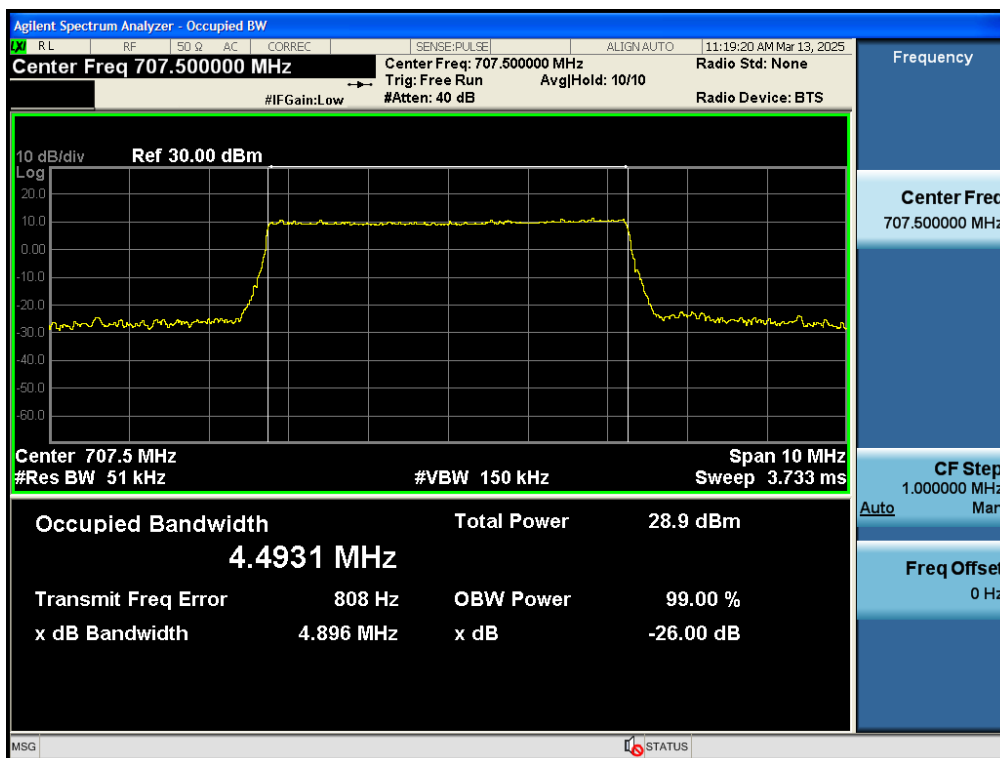
Test\_Graph\_band12\_701.5MHz\_5M\_16QAM\_25RB#LOW\_OBW&amp;EBW



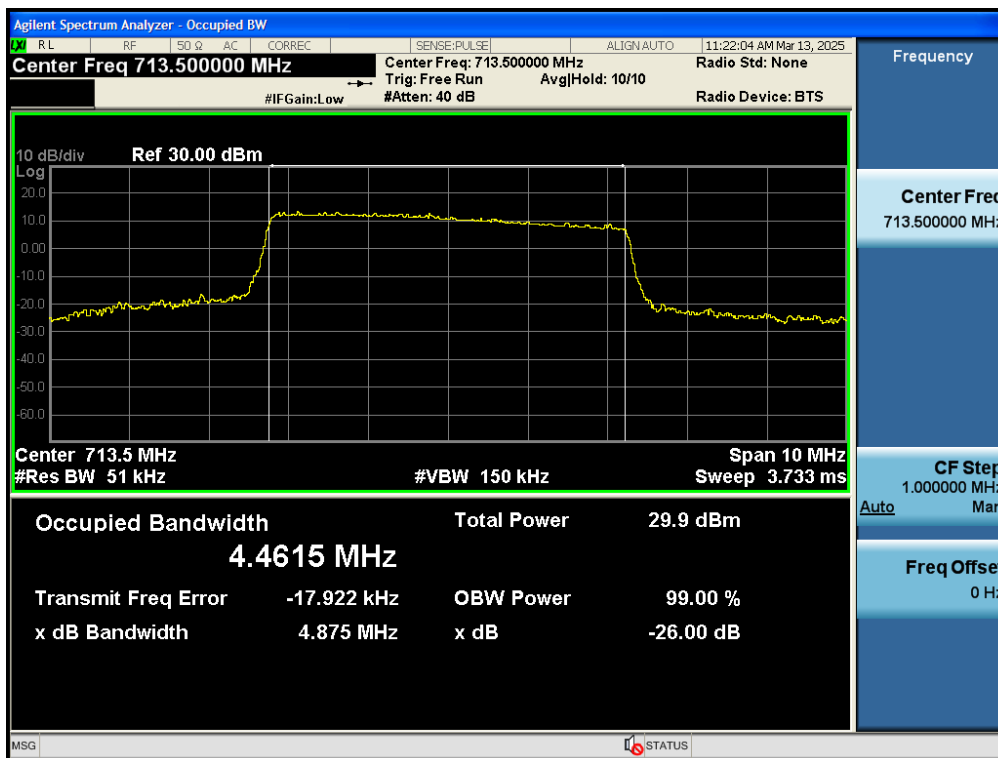
Test\_Graph\_band12\_701.5MHz\_5M\_QPSK\_25RB#LOW\_OBW&amp;EBW



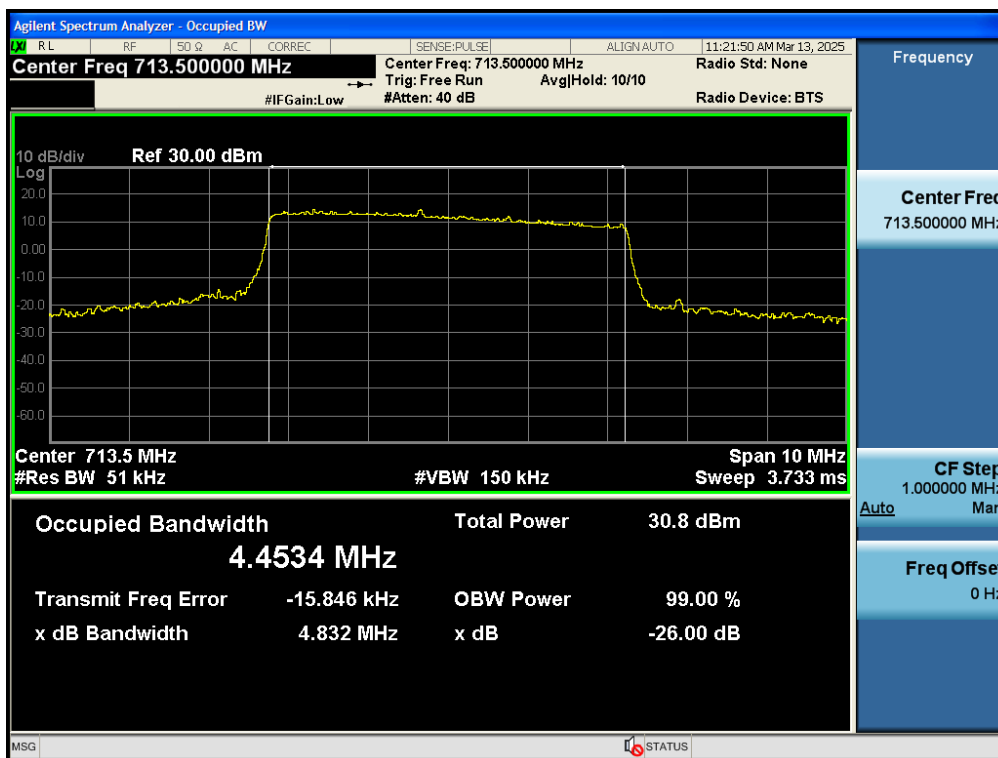
Test\_Graph\_band12\_707.5MHz\_5M\_16QAM\_25RB#LOW\_OBW&amp;EBW



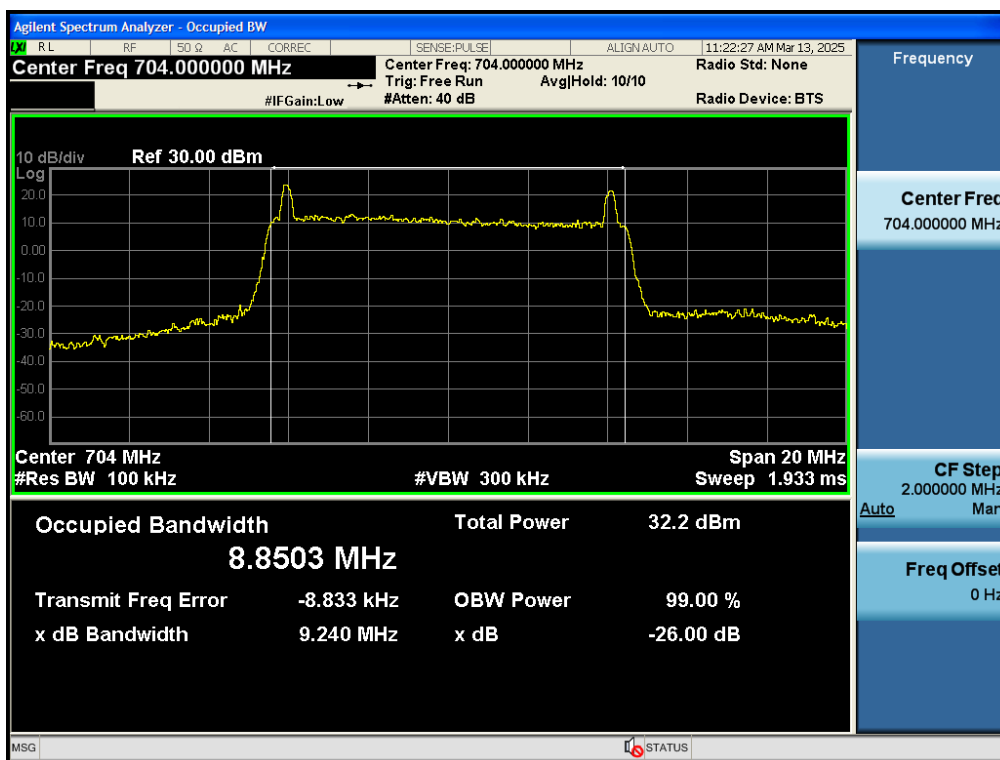
Test\_Graph\_band12\_707.5MHz\_5M\_QPSK\_25RB#LOW\_OBW&amp;EBW



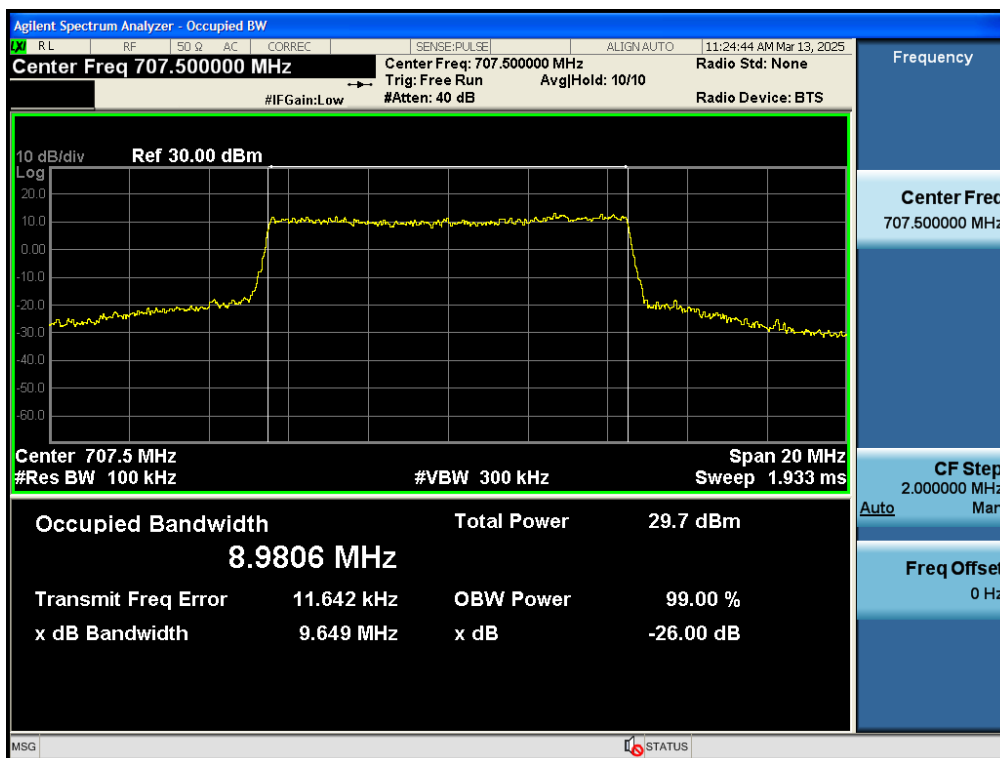
Test\_Graph\_band12\_713.5MHz\_5M\_16QAM\_25RB#LOW\_OBW&amp;EBW



Test\_Graph\_band12\_713.5MHz\_5M\_QPSK\_25RB#LOW\_OBW&amp;EBW

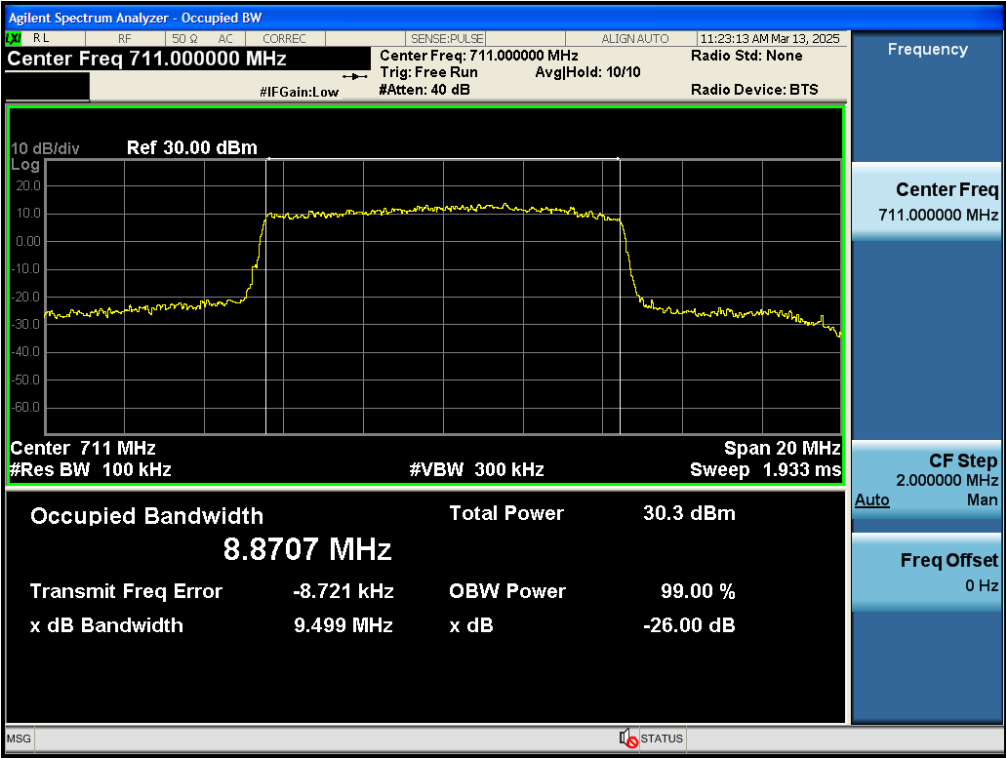


Test\_Graph\_band12\_704MHz\_10M\_QPSK\_50RB#LOW\_OBW&amp;EBW



Test\_Graph\_band12\_707.5MHz\_10M\_QPSK\_50RB#LOW\_OBW&amp;EBW





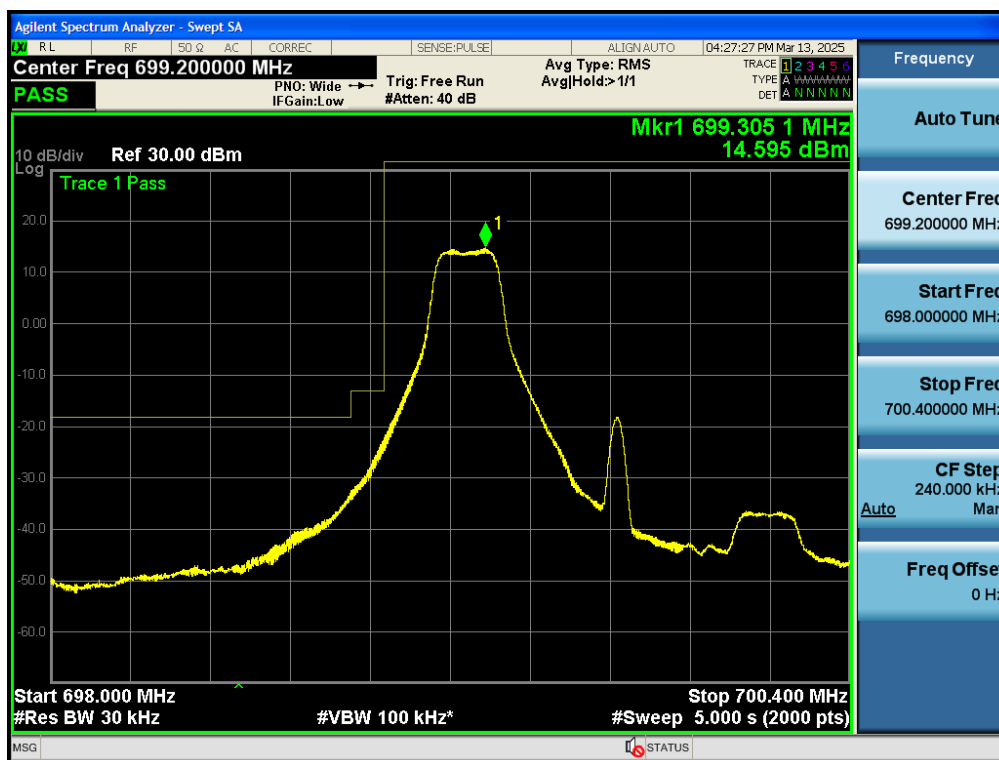
Test\_Graph\_band12\_711MHz\_10M\_QPSK\_50RB#LOW\_OBW&EBW

## Appendix C: Band edge emissions

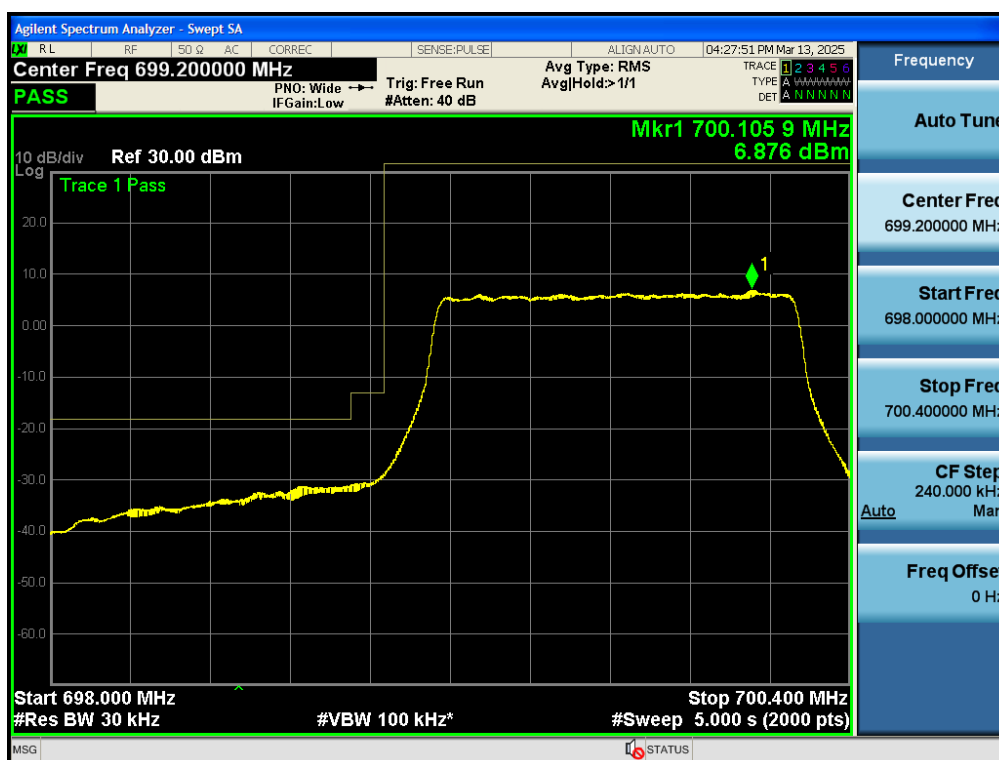
### Test Result

| Band | Bandwidth (MHz) | UL Frequency (MHz) | Modulation | RB Size | RB Offset | Conclusion |
|------|-----------------|--------------------|------------|---------|-----------|------------|
| 12   | 1.4             | 699.7              | QPSK       | 1       | LOW       | Pass       |
| 12   | 1.4             | 699.7              | QPSK       | 6       | LOW       | Pass       |
| 12   | 1.4             | 699.7              | 16QAM      | 1       | LOW       | Pass       |
| 12   | 1.4             | 699.7              | 16QAM      | 6       | LOW       | Pass       |
| 12   | 1.4             | 715.3              | QPSK       | 1       | HIGH      | Pass       |
| 12   | 1.4             | 715.3              | QPSK       | 6       | LOW       | Pass       |
| 12   | 1.4             | 715.3              | 16QAM      | 1       | HIGH      | Pass       |
| 12   | 1.4             | 715.3              | 16QAM      | 6       | LOW       | Pass       |
| 12   | 3               | 700.5              | QPSK       | 1       | LOW       | Pass       |
| 12   | 3               | 700.5              | QPSK       | 15      | LOW       | Pass       |
| 12   | 3               | 700.5              | 16QAM      | 1       | LOW       | Pass       |
| 12   | 3               | 700.5              | 16QAM      | 15      | LOW       | Pass       |
| 12   | 3               | 714.5              | QPSK       | 1       | HIGH      | Pass       |
| 12   | 3               | 714.5              | QPSK       | 15      | LOW       | Pass       |
| 12   | 3               | 714.5              | 16QAM      | 1       | HIGH      | Pass       |
| 12   | 3               | 714.5              | 16QAM      | 15      | LOW       | Pass       |
| 12   | 5               | 701.5              | QPSK       | 1       | LOW       | Pass       |
| 12   | 5               | 701.5              | QPSK       | 25      | LOW       | Pass       |
| 12   | 5               | 701.5              | 16QAM      | 1       | LOW       | Pass       |
| 12   | 5               | 701.5              | 16QAM      | 25      | LOW       | Pass       |
| 12   | 5               | 713.5              | QPSK       | 1       | HIGH      | Pass       |
| 12   | 5               | 713.5              | QPSK       | 25      | LOW       | Pass       |
| 12   | 5               | 713.5              | 16QAM      | 1       | HIGH      | Pass       |
| 12   | 5               | 713.5              | 16QAM      | 25      | LOW       | Pass       |
| 12   | 10              | 704                | QPSK       | 1       | LOW       | Pass       |
| 12   | 10              | 704                | QPSK       | 50      | LOW       | Pass       |
| 12   | 10              | 704                | 16QAM      | 1       | LOW       | Pass       |
| 12   | 10              | 711                | QPSK       | 1       | HIGH      | Pass       |
| 12   | 10              | 711                | QPSK       | 50      | LOW       | Pass       |
| 12   | 10              | 711                | 16QAM      | 1       | HIGH      | Pass       |

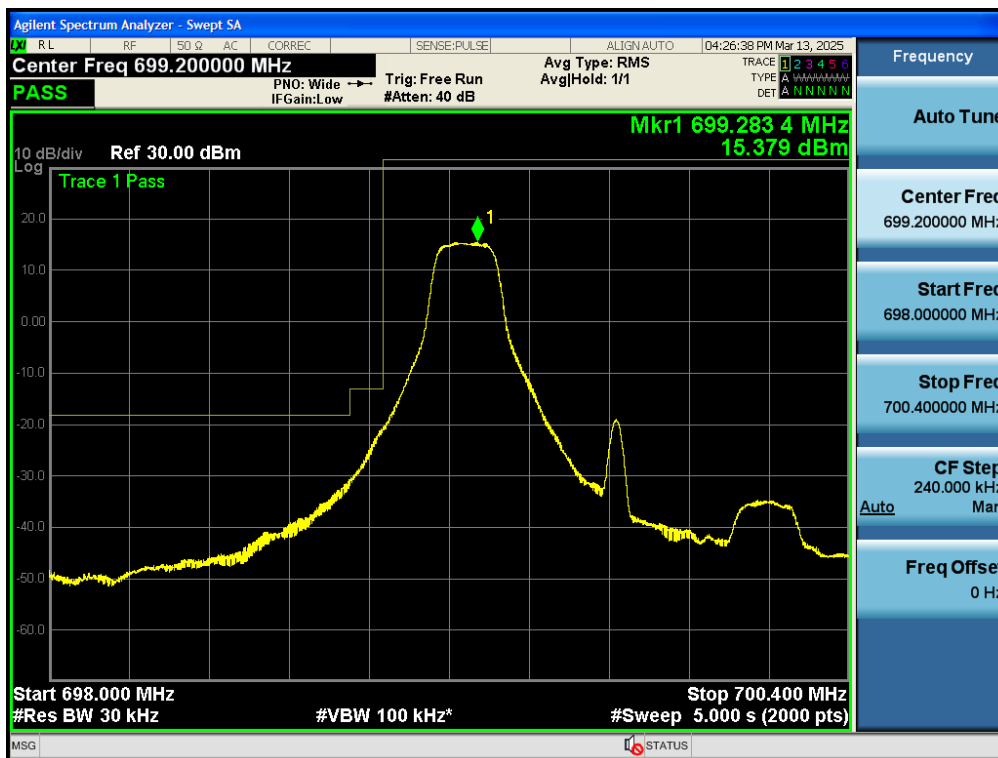
## Test Graphs



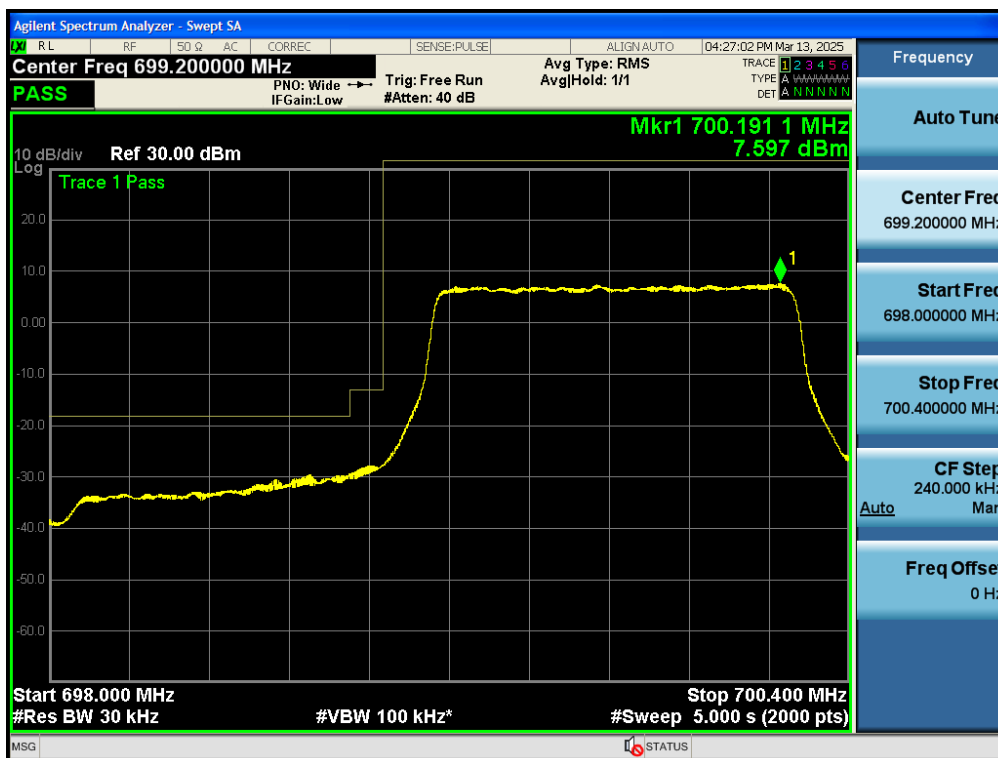
Test\_Graph\_band12\_699.7MHz\_1.4M\_16QAM\_1RB#LOW\_Band edge



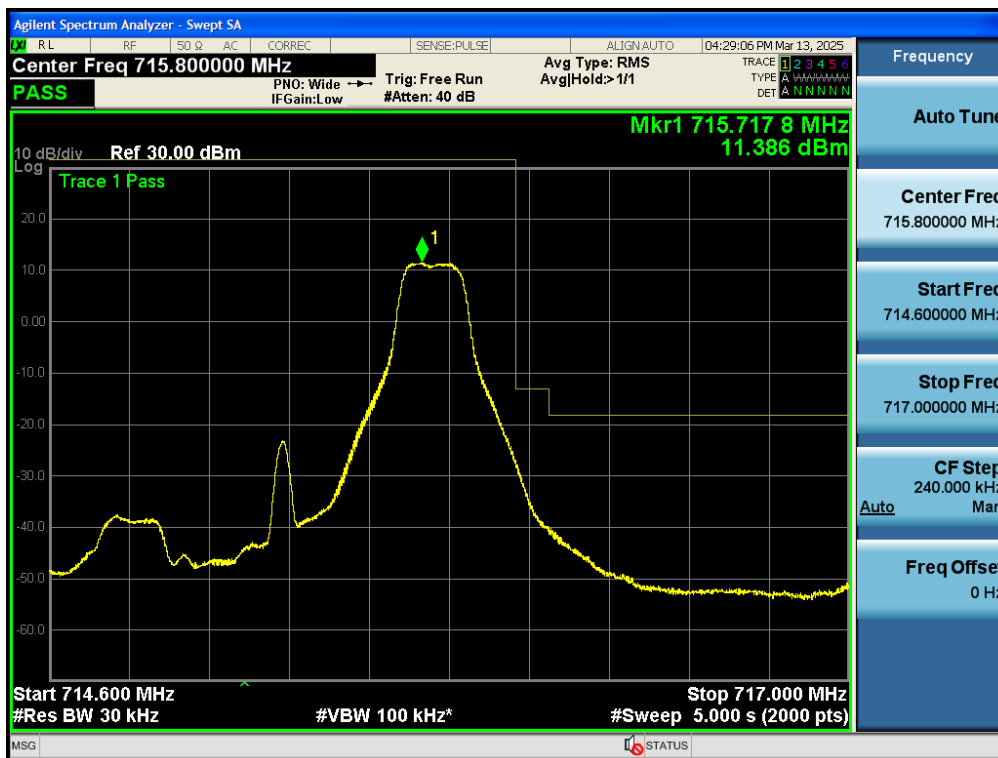
Test\_Graph\_band12\_699.7MHz\_1.4M\_16QAM\_6RB#LOW\_Band edge



Test\_Graph\_band12\_699.7MHz\_1.4M\_QPSK\_1RB#LOW\_Band edge



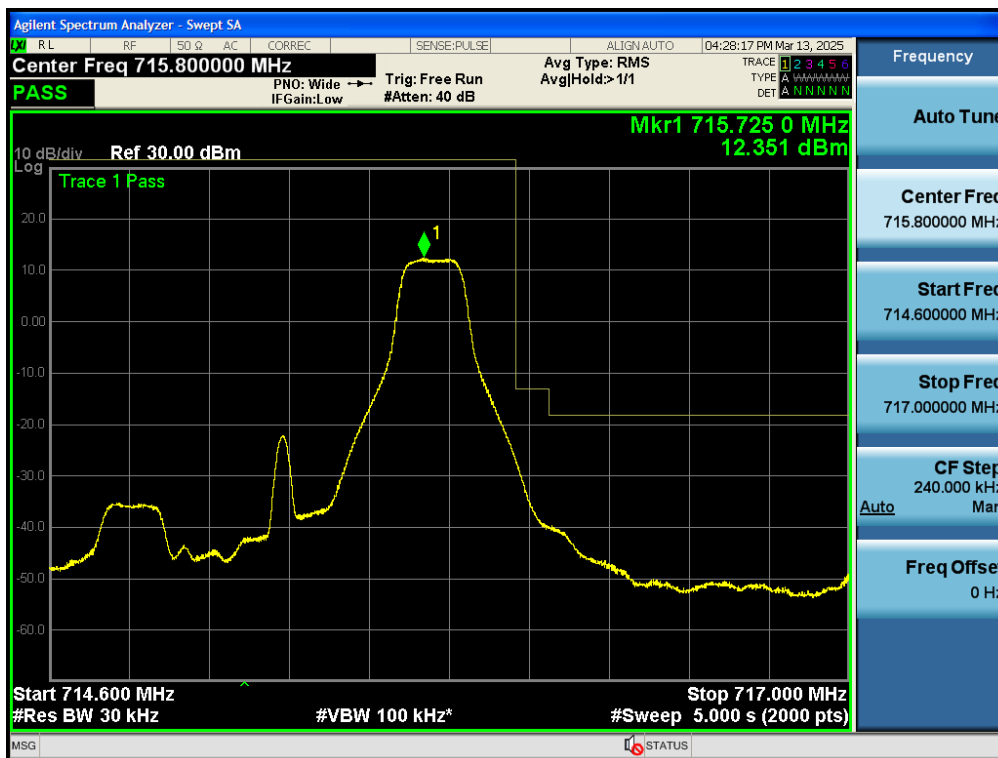
Test\_Graph\_band12\_699.7MHz\_1.4M\_QPSK\_6RB#LOW\_Band edge



Test\_Graph\_band12\_715.3MHz\_1.4M\_16QAM\_1RB#HIGH\_Band edge



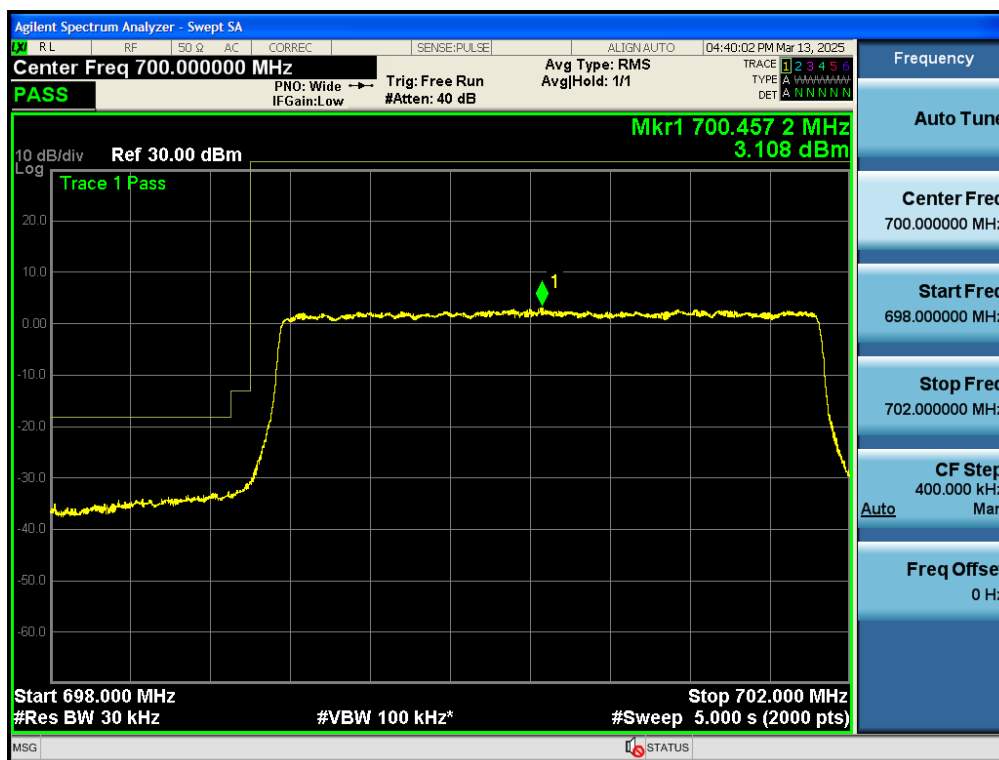
Test\_Graph\_band12\_715.3MHz\_1.4M\_16QAM\_6RB#LOW\_Band edge



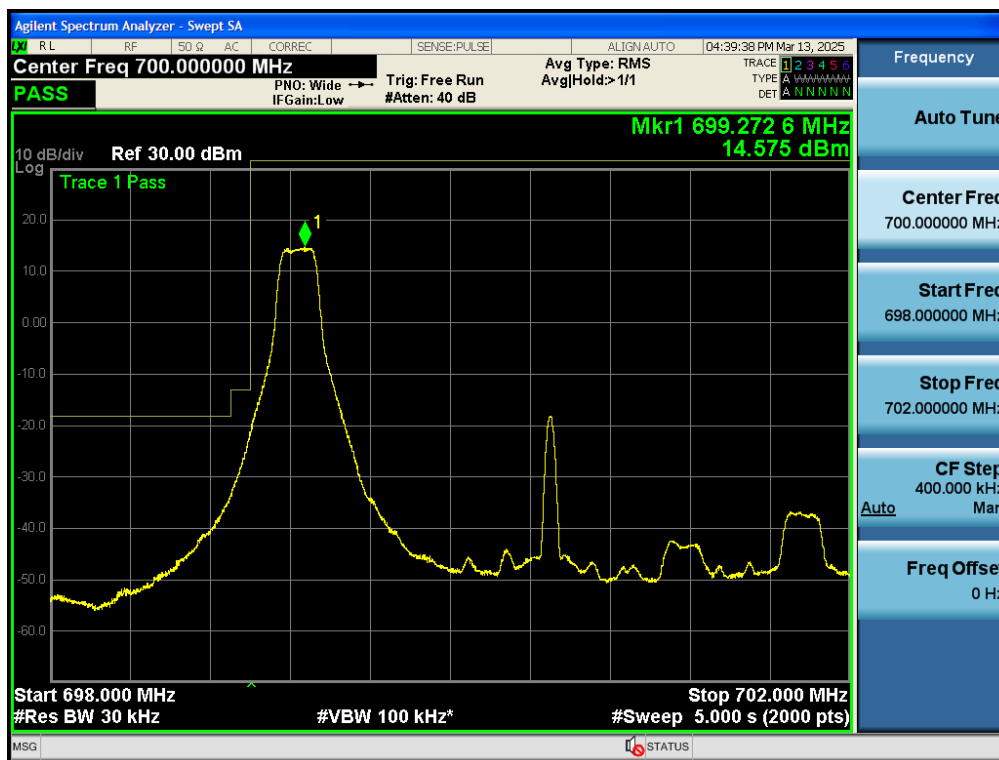
Test\_Graph\_band12\_715.3MHz\_1.4M\_QPSK\_1RB#HIGH\_Band edge



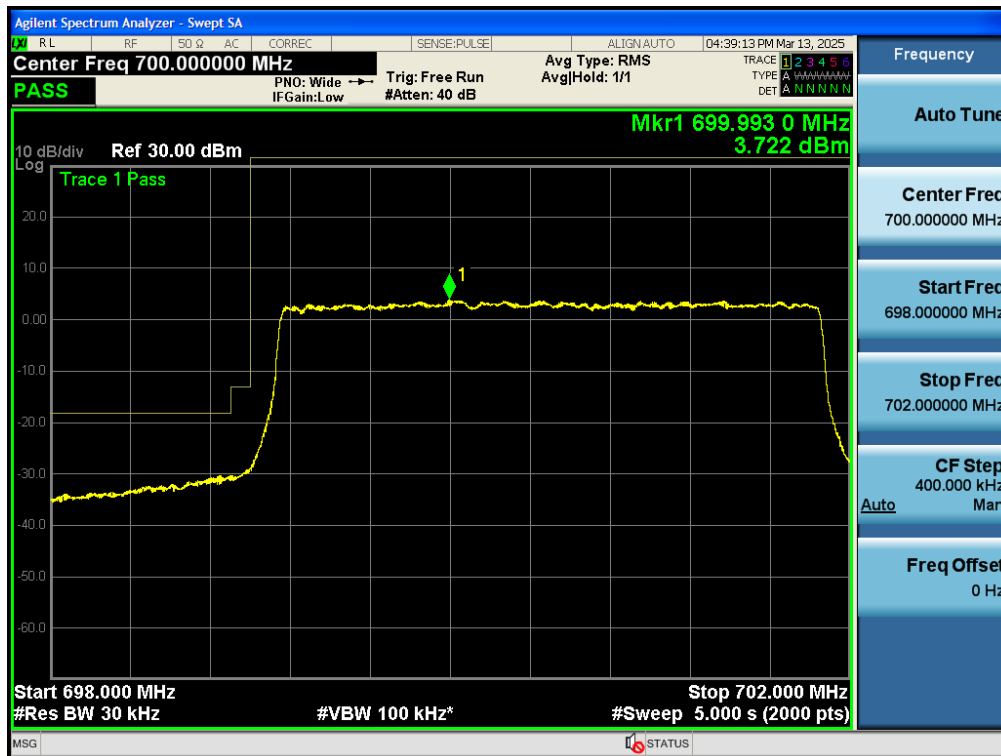
Test\_Graph\_band12\_715.3MHz\_1.4M\_QPSK\_6RB#LOW\_Band edge



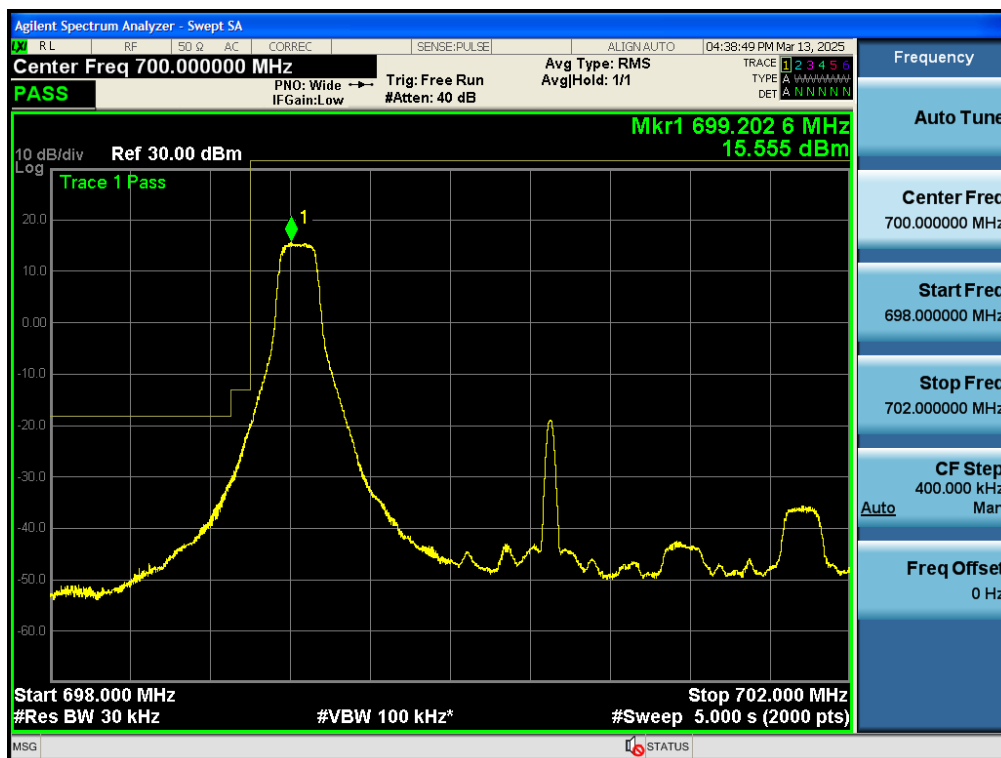
Test\_Graph\_band12\_700.5MHz\_3M\_16QAM\_15RB#LOW\_Band edge



Test\_Graph\_band12\_700.5MHz\_3M\_16QAM\_1RB#LOW\_Band edge



Test\_Graph\_band12\_700.5MHz\_3M\_QPSK\_15RB#LOW\_Band edge

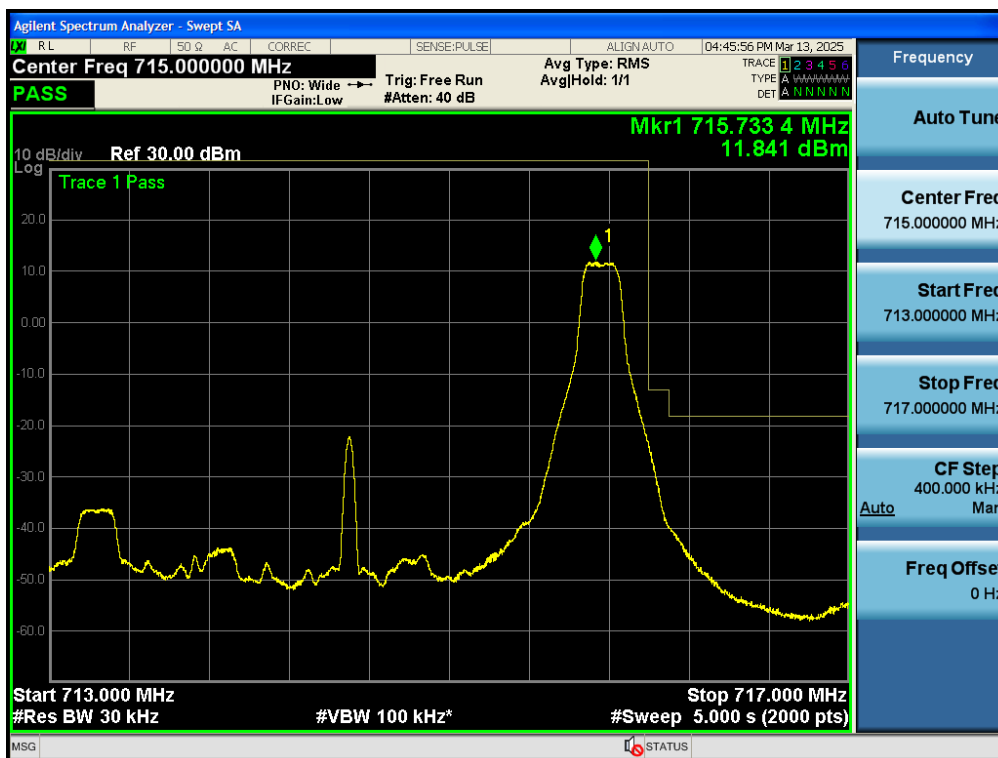


Test\_Graph\_band12\_700.5MHz\_3M\_QPSK\_1RB#LOW\_Band edge





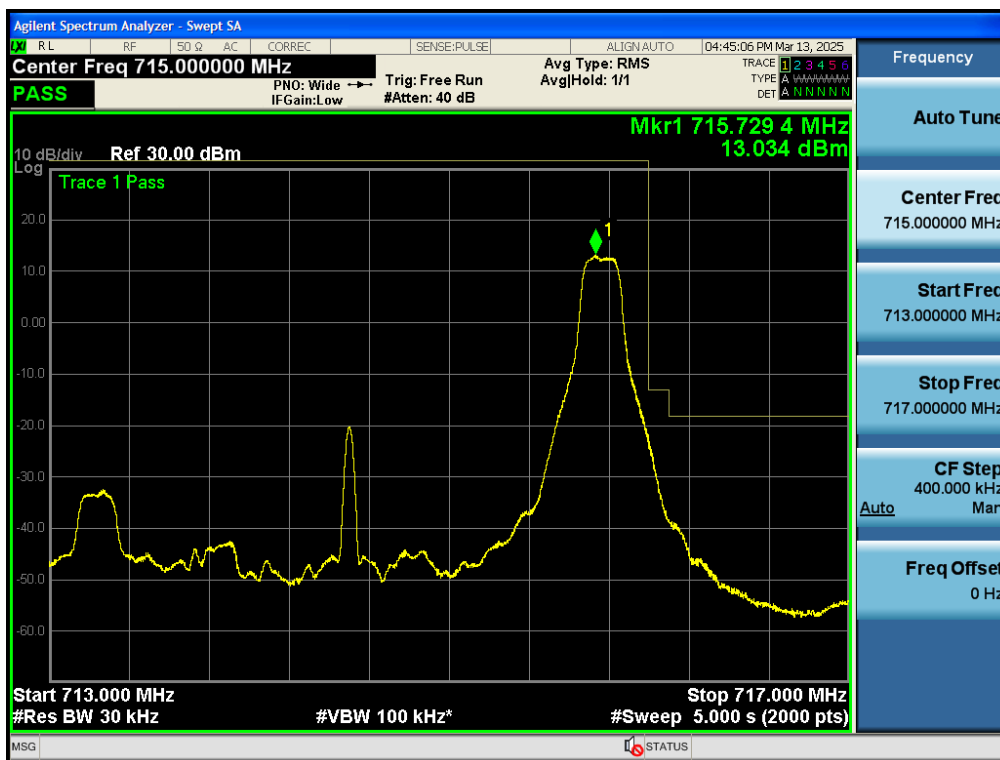
Test\_Graph\_band12\_714.5MHz\_3M\_16QAM\_15RB#LOW\_Band edge



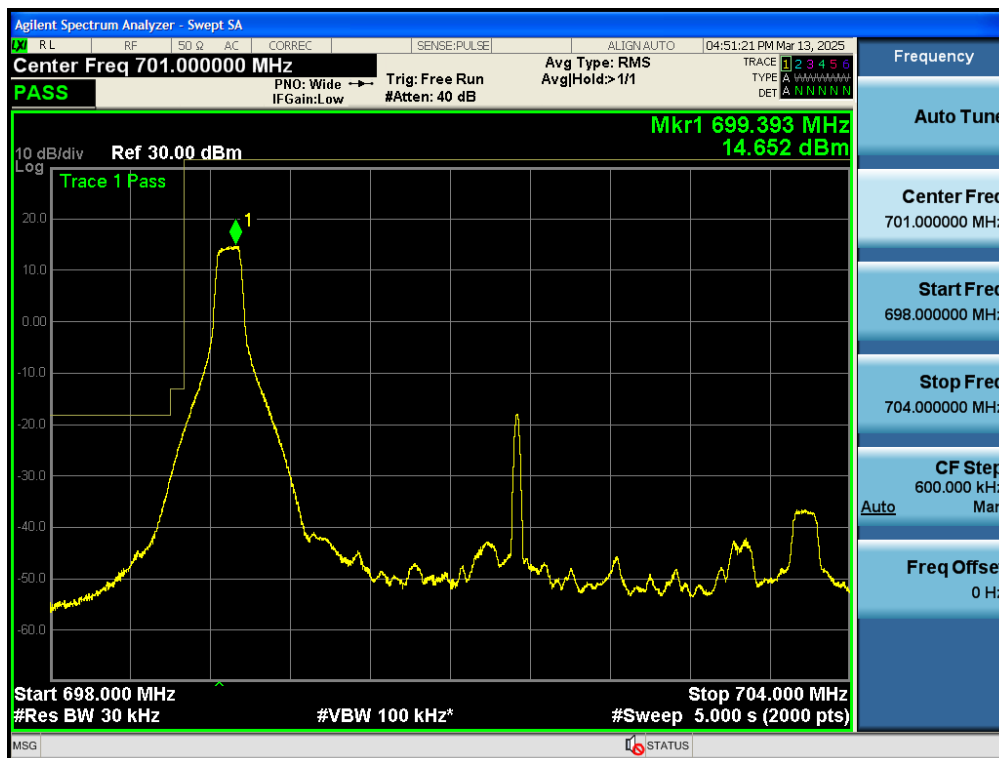
Test\_Graph\_band12\_714.5MHz\_3M\_16QAM\_1RB#HIGH\_Band edge



Test\_Graph\_band12\_714.5MHz\_3M\_QPSK\_15RB#LOW\_Band edge



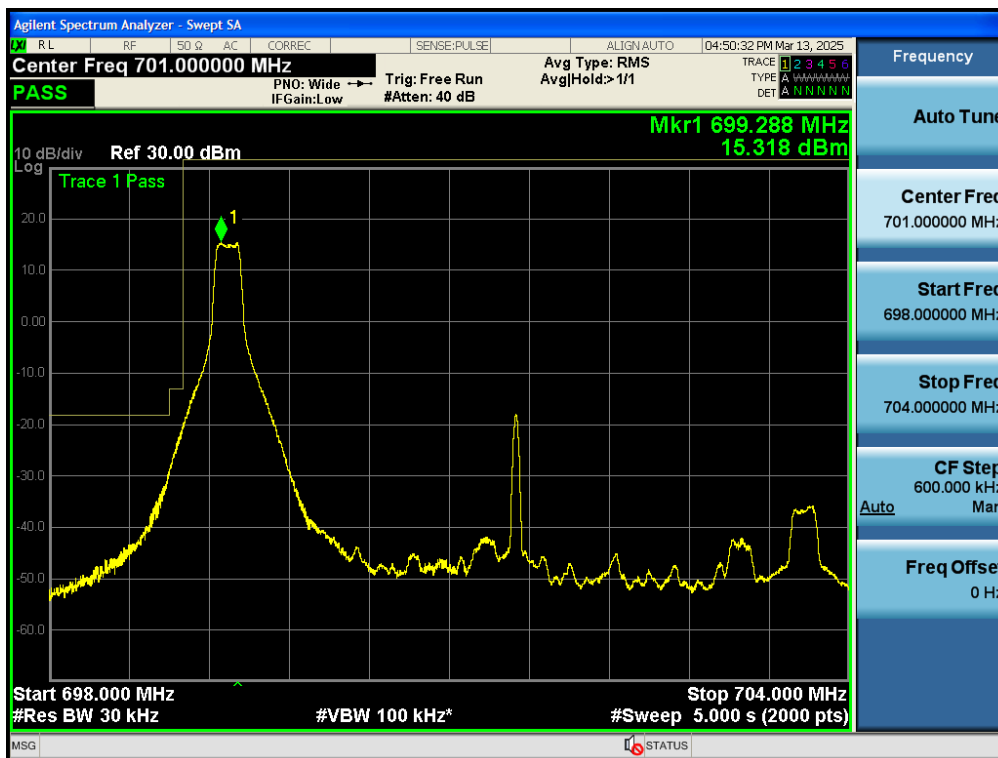
Test\_Graph\_band12\_714.5MHz\_3M\_QPSK\_1RB#HIGH\_Band edge



Test\_Graph\_band12\_701.5MHz\_5M\_16QAM\_1RB#LOW\_Band edge



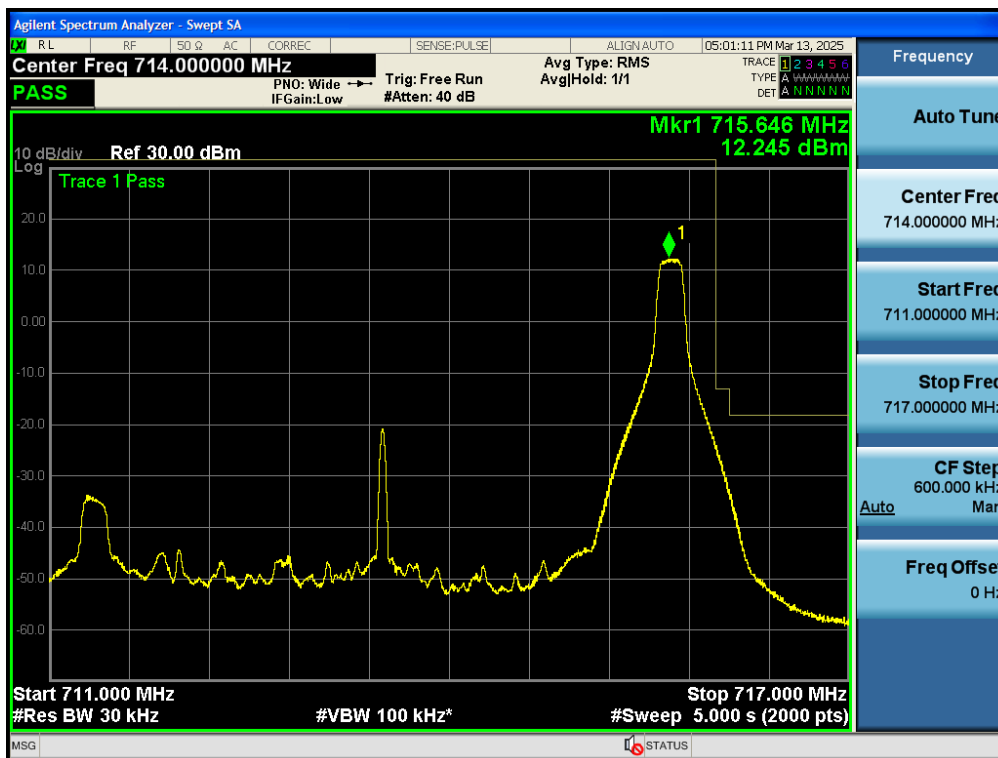
Test\_Graph\_band12\_701.5MHz\_5M\_16QAM\_25RB#LOW\_Band edge



Test\_Graph\_band12\_701.5MHz\_5M\_QPSK\_1RB#LOW\_Band edge



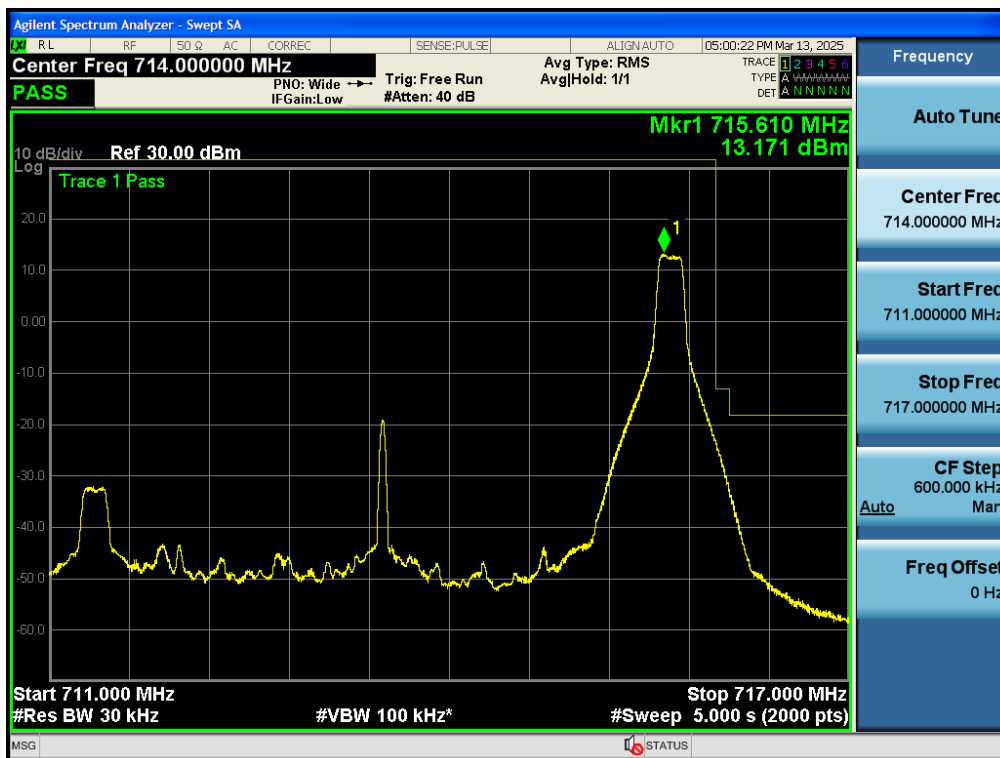
Test\_Graph\_band12\_701.5MHz\_5M\_QPSK\_25RB#LOW\_Band edge



Test\_Graph\_band12\_713.5MHz\_5M\_16QAM\_1RB#HIGH\_Band edge



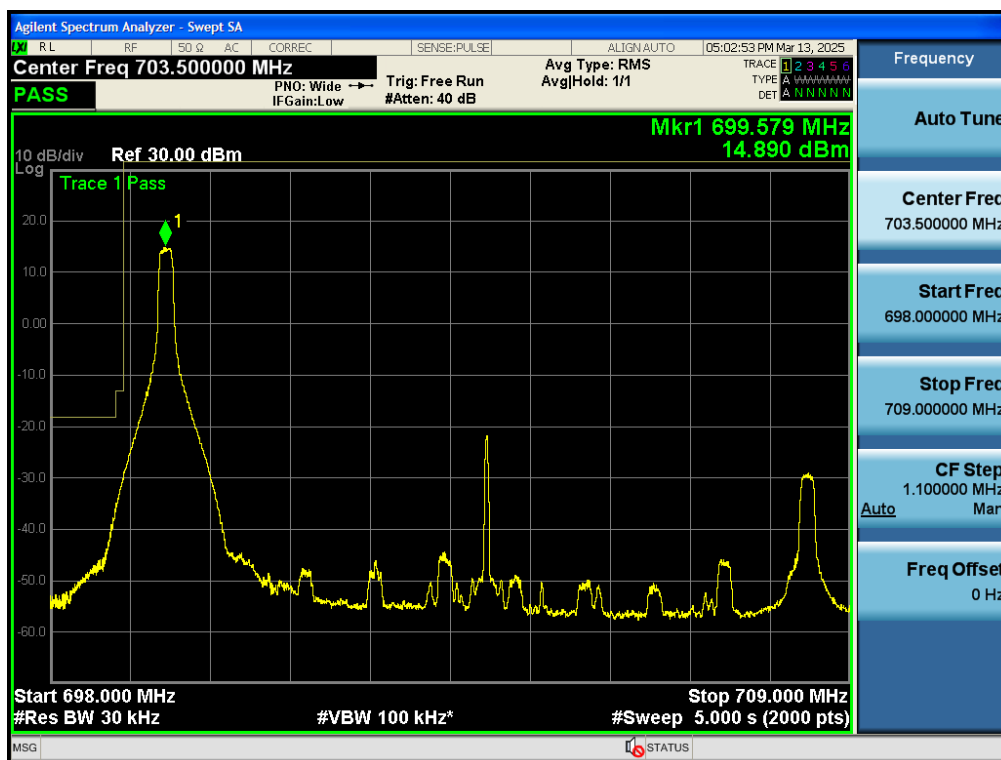
Test\_Graph\_band12\_713.5MHz\_5M\_16QAM\_25RB#LOW\_Band edge



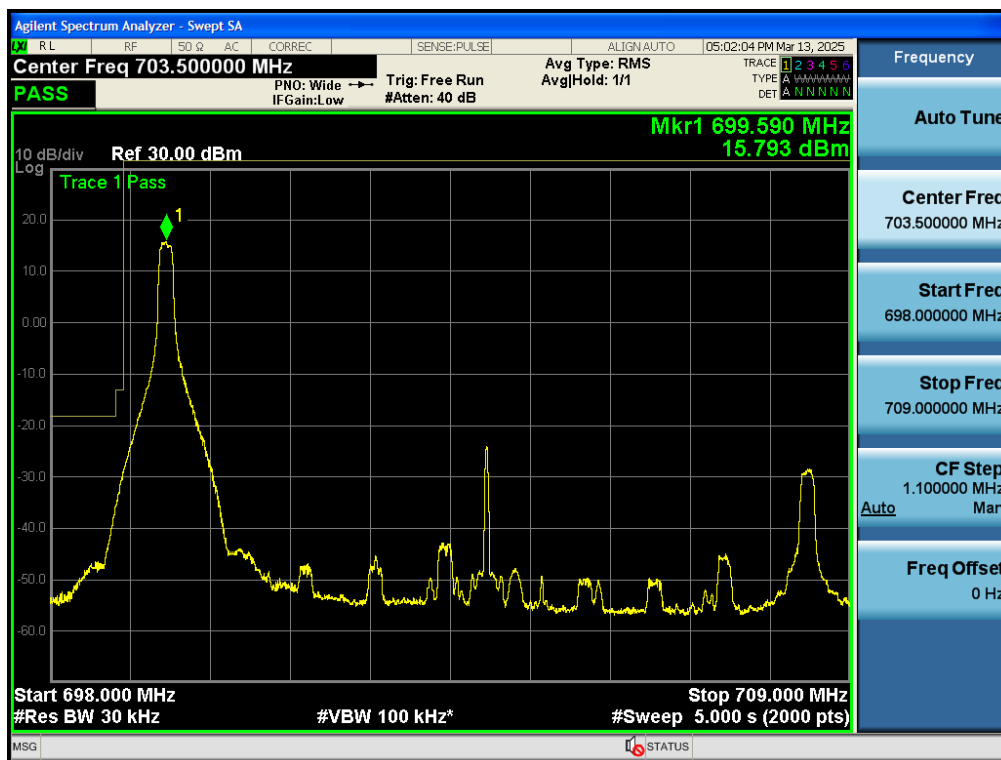
Test\_Graph\_band12\_713.5MHz\_5M\_QPSK\_1RB#HIGH\_Band edge



Test\_Graph\_band12\_713.5MHz\_5M\_QPSK\_25RB#LOW\_Band edge



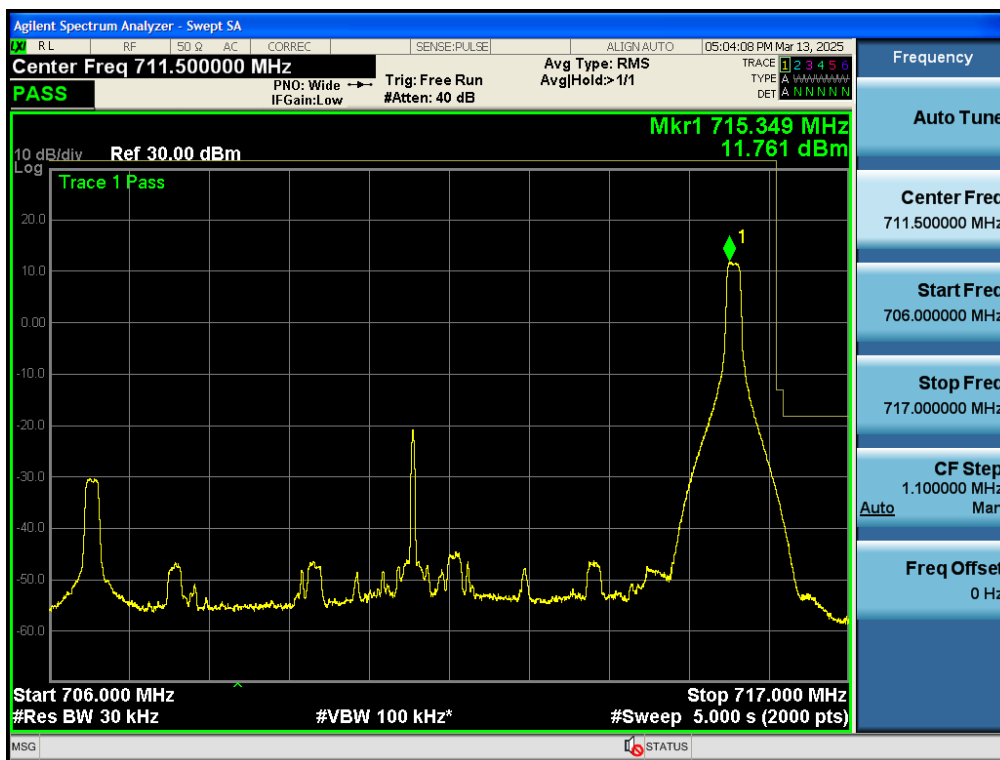
Test\_Graph\_band12\_704MHz\_10M\_16QAM\_1RB#LOW\_Band edge



Test\_Graph\_band12\_704MHz\_10M\_QPSK\_1RB#LOW\_Band edge

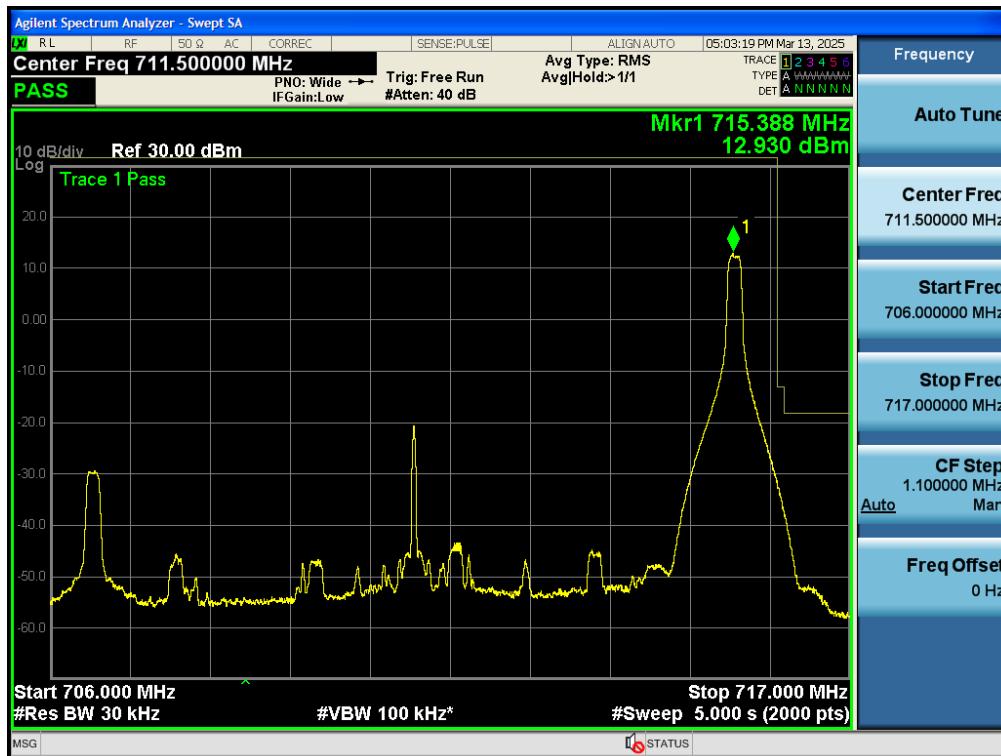


Test\_Graph\_band12\_704MHz\_10M\_QPSK\_50RB#LOW\_Band edge

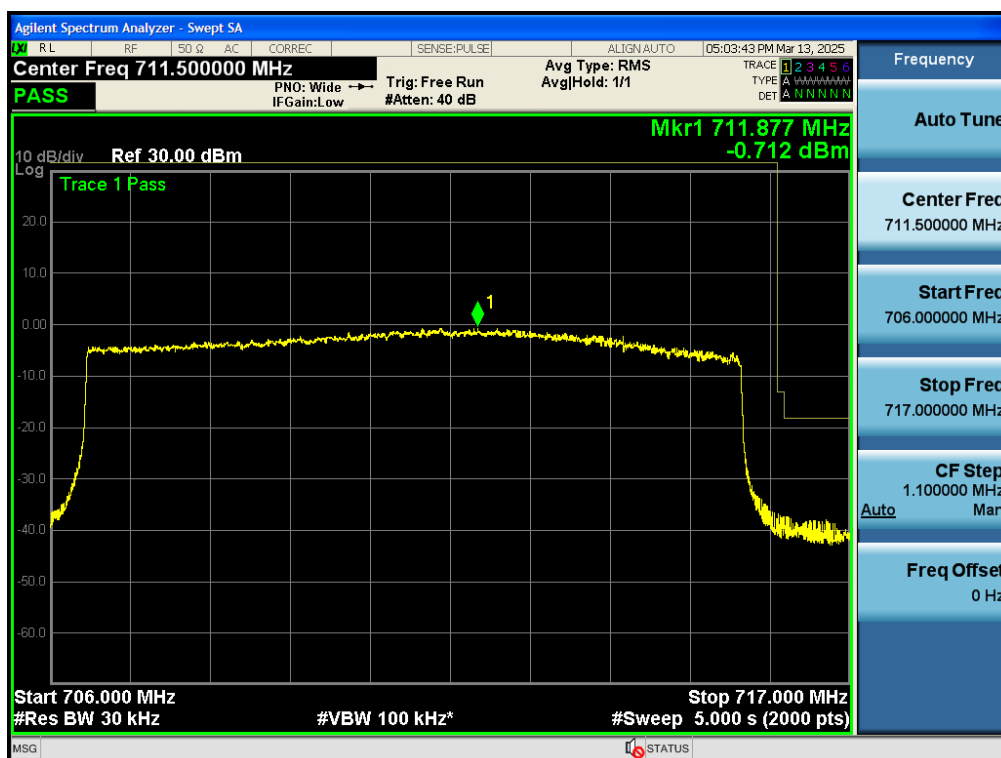


Test\_Graph\_band12\_711MHz\_10M\_16QAM\_1RB#HIGH\_Band edge





Test\_Graph\_band12\_711MHz\_10M\_QPSK\_1RB#HIGH\_Band edge



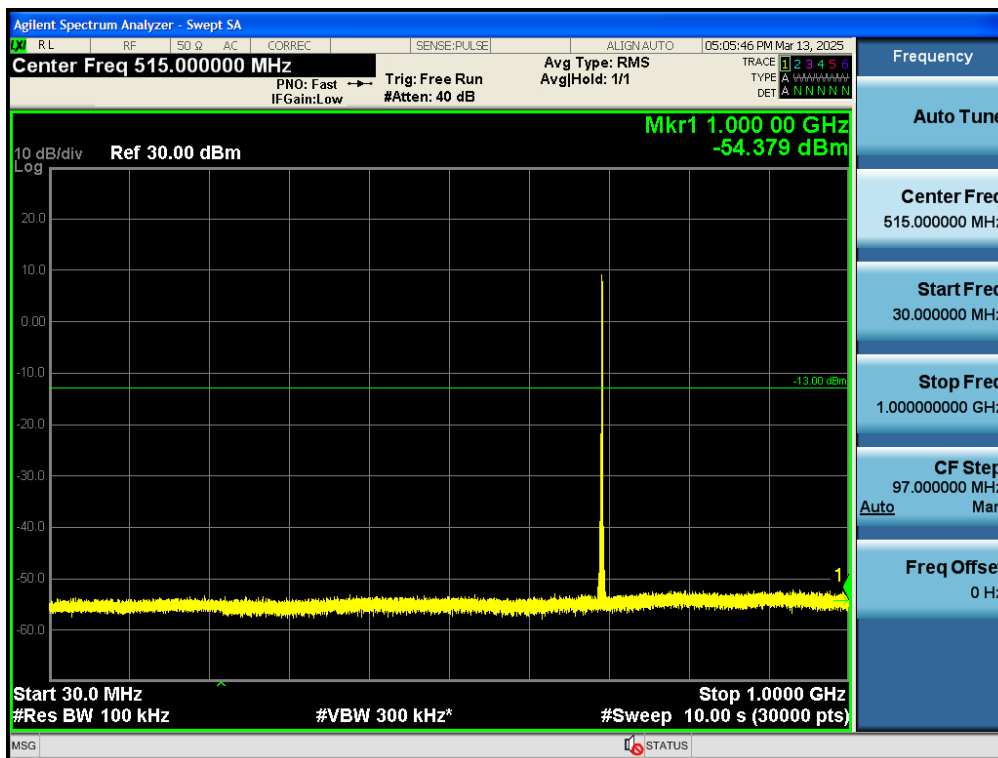
Test\_Graph\_band12\_711MHz\_10M\_QPSK\_50RB#LOW\_Band edge

## Appendix D: Unwanted spurious emissions at antenna terminals

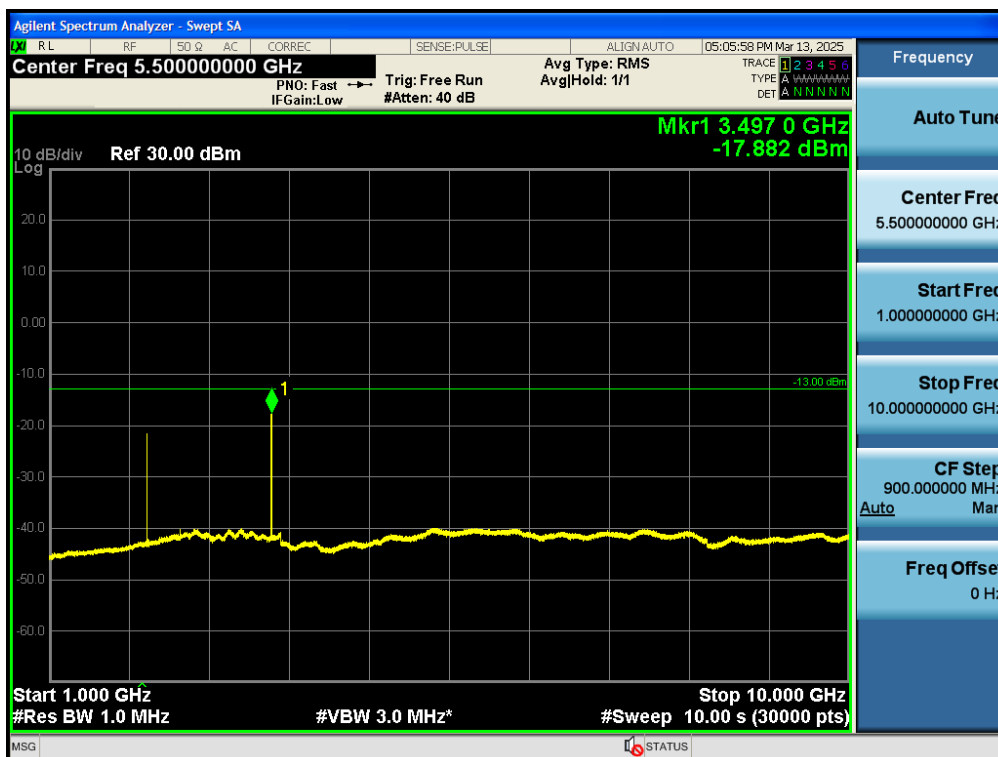
### Test Result

| Band | Bandwidth<br>(MHz) | UL Frequency<br>(MHz) | Modulation | RB Size | RB Offset | Conclusion |
|------|--------------------|-----------------------|------------|---------|-----------|------------|
| 12   | 1.4                | 699.7                 | QPSK       | 6       | LOW       | Pass       |
| 12   | 1.4                | 707.5                 | QPSK       | 6       | LOW       | Pass       |
| 12   | 1.4                | 715.3                 | QPSK       | 6       | LOW       | Pass       |
| 12   | 3                  | 700.5                 | QPSK       | 15      | LOW       | Pass       |
| 12   | 3                  | 707.5                 | QPSK       | 15      | LOW       | Pass       |
| 12   | 3                  | 714.5                 | QPSK       | 15      | LOW       | Pass       |
| 12   | 5                  | 701.5                 | QPSK       | 25      | LOW       | Pass       |
| 12   | 5                  | 707.5                 | QPSK       | 25      | LOW       | Pass       |
| 12   | 5                  | 713.5                 | QPSK       | 25      | LOW       | Pass       |
| 12   | 10                 | 704                   | QPSK       | 50      | LOW       | Pass       |
| 12   | 10                 | 707.5                 | QPSK       | 50      | LOW       | Pass       |
| 12   | 10                 | 711                   | QPSK       | 50      | LOW       | Pass       |

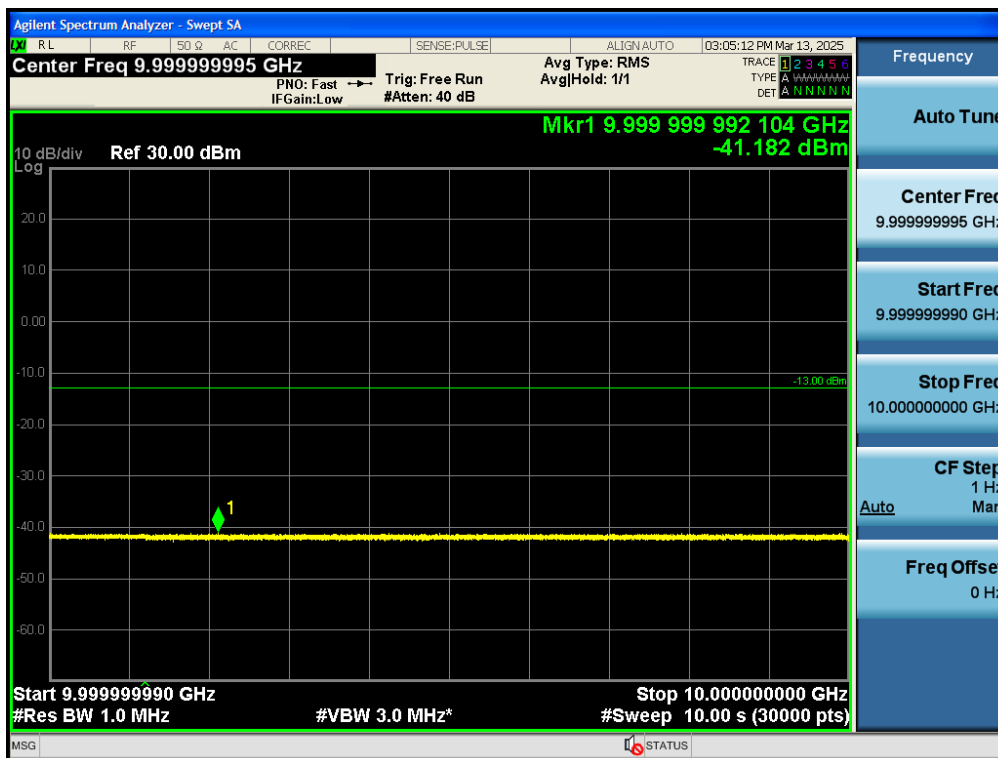
## Test Graphs



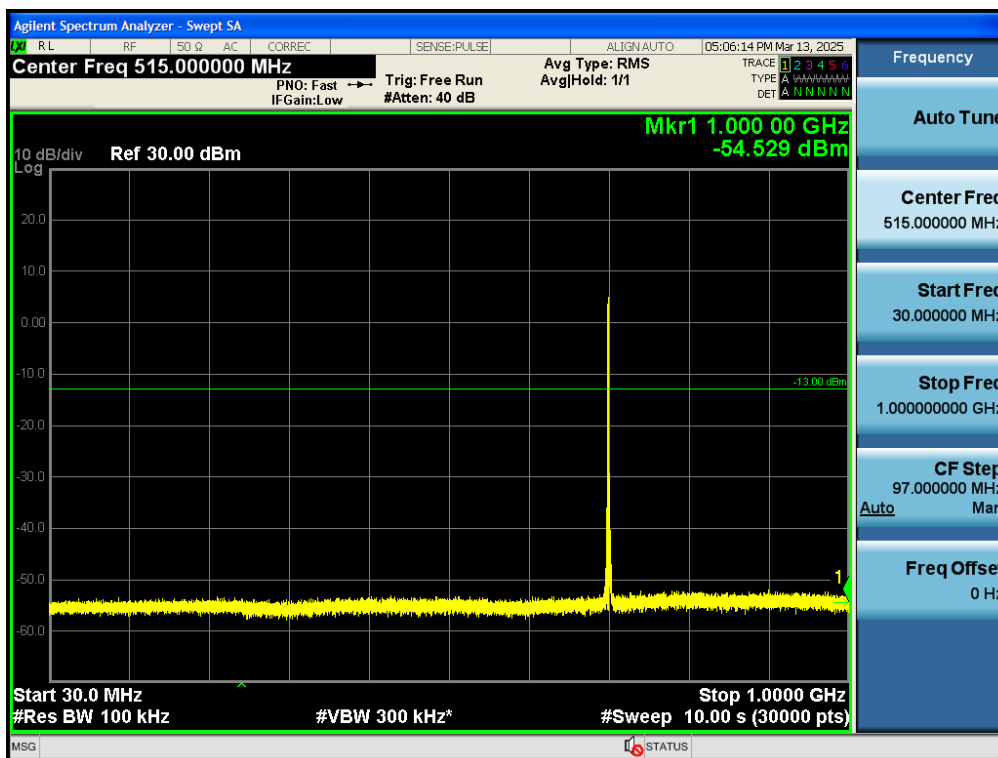
Test\_Graph\_band12\_699.7MHz\_1.4M\_QPSK\_6RB#LOW\_30M\_1G\_TX



Test\_Graph\_band12\_699.7MHz\_1.4M\_QPSK\_6RB#LOW\_1G\_10G\_TX



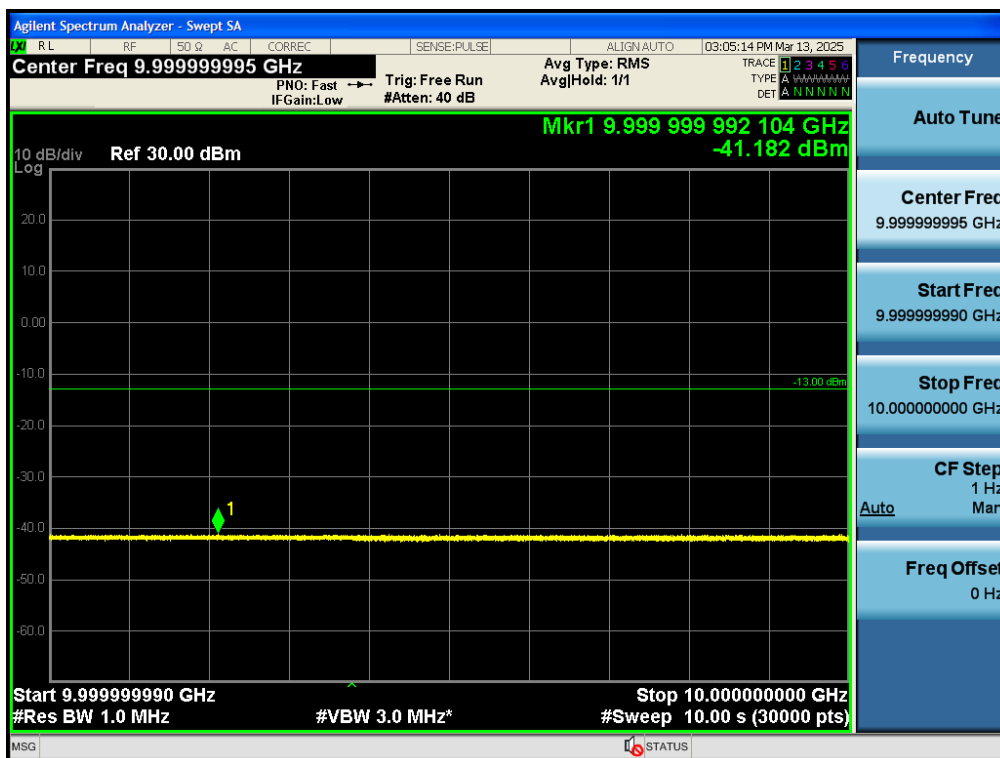
Test\_Graph\_band12\_699.7MHz\_1.4M\_QPSK\_6RB#LOW\_10G\_10.0G\_TX



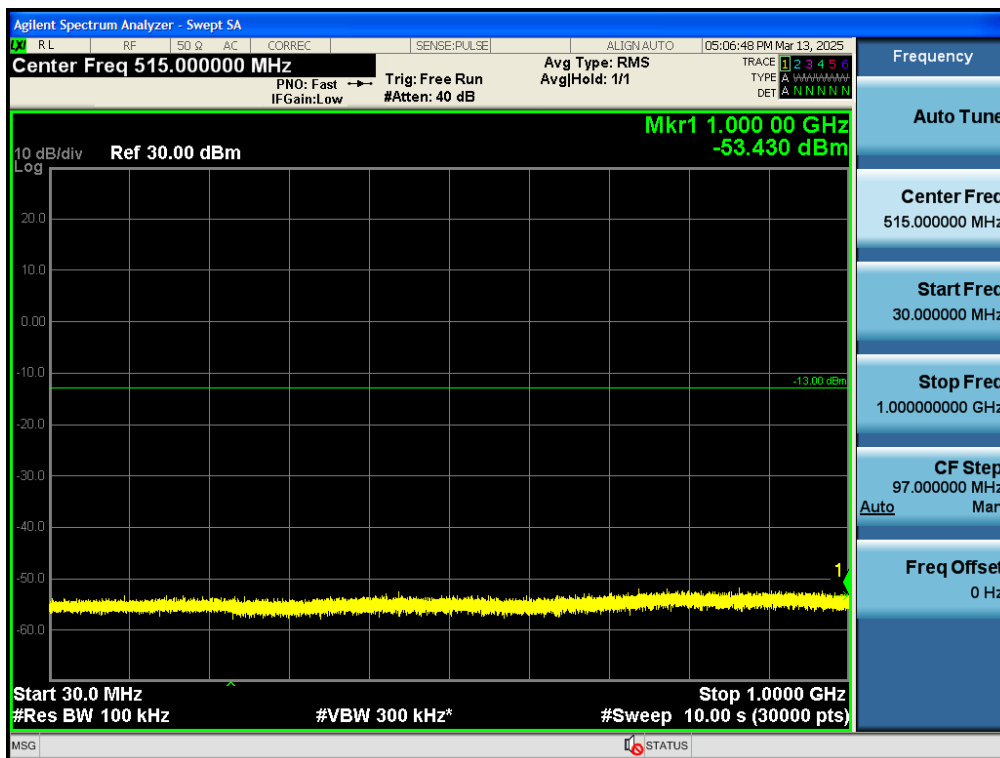
Test\_Graph\_band12\_707.5MHz\_1.4M\_QPSK\_6RB#LOW\_30M\_1G\_TX



Test\_Graph\_band12\_707.5MHz\_1.4M\_QPSK\_6RB#LOW\_1G\_10G\_TX



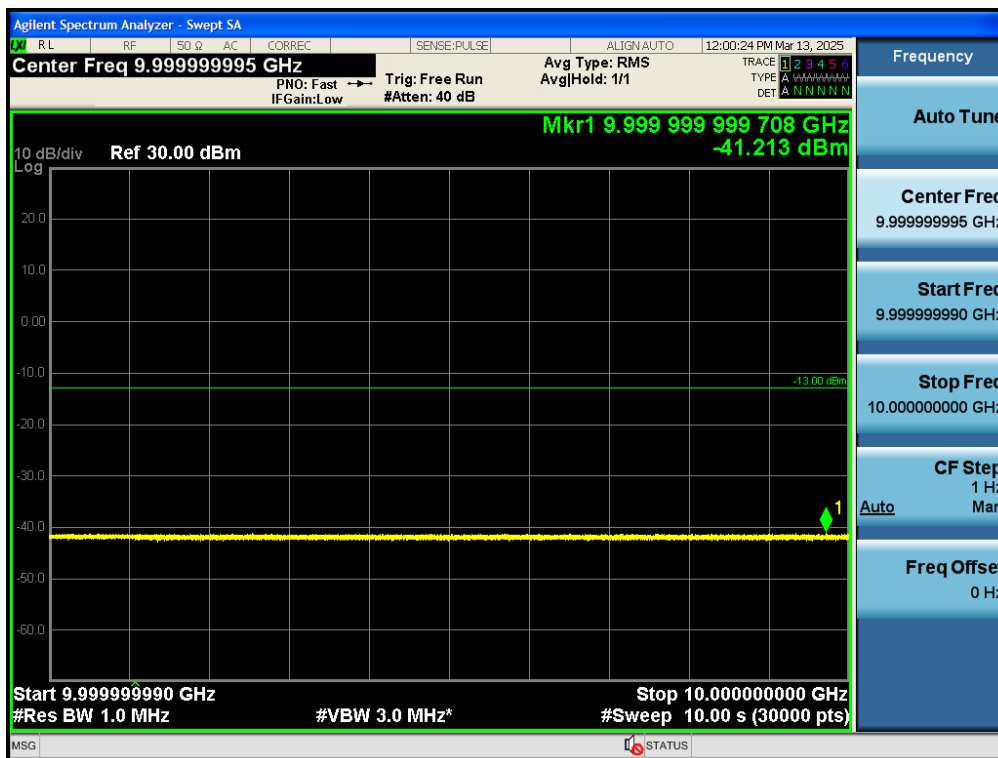
Test\_Graph\_band12\_707.5MHz\_1.4M\_QPSK\_6RB#LOW\_10G\_10.0G\_TX



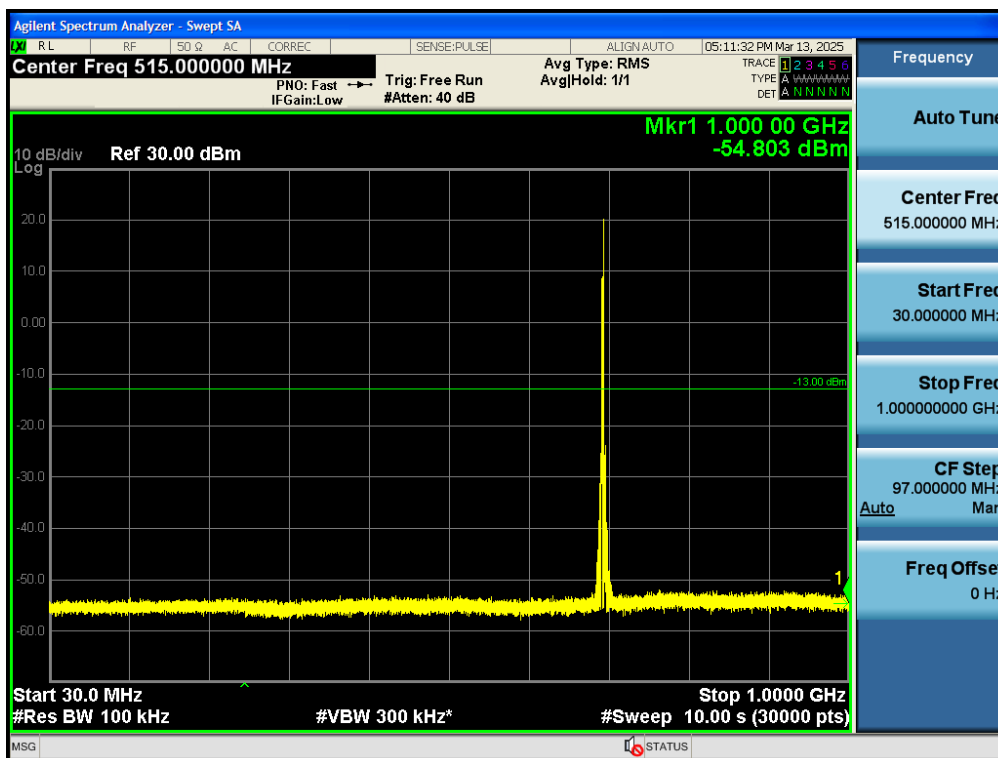
Test\_Graph\_band12\_715.3MHz\_1.4M\_QPSK\_6RB#LOW\_30M\_1G\_TX



Test\_Graph\_band12\_715.3MHz\_1.4M\_QPSK\_6RB#LOW\_1G\_10G\_TX



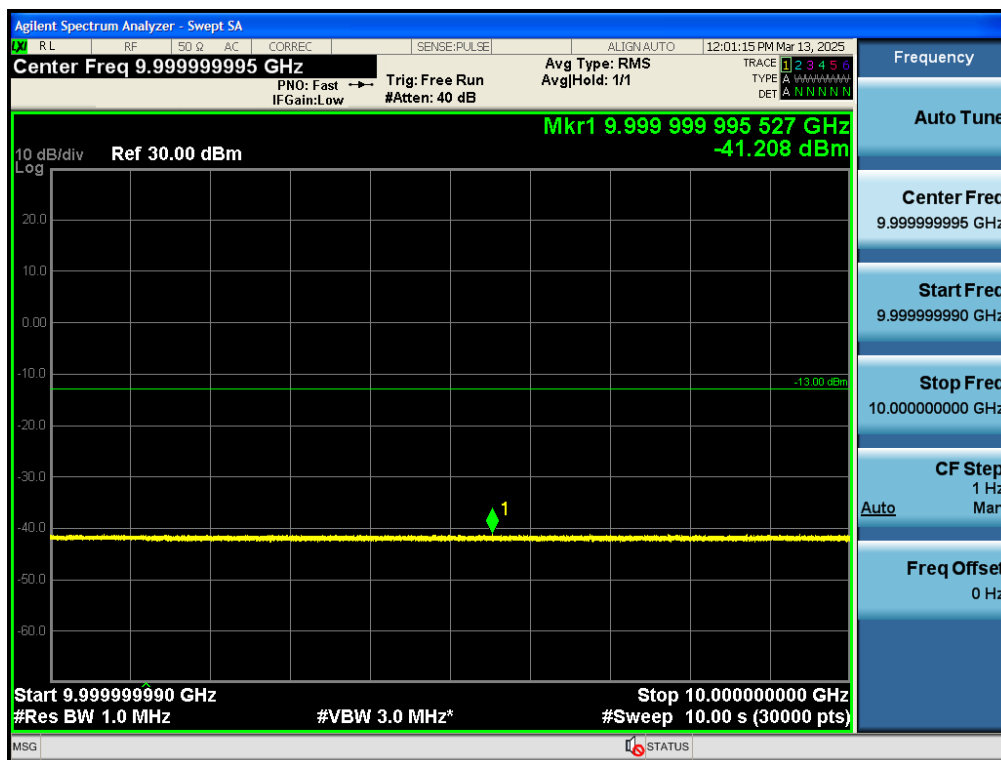
Test\_Graph\_band12\_715.3MHz\_1.4M\_QPSK\_6RB#LOW\_10G\_10.0G\_TX



Test\_Graph\_band12\_700.5MHz\_3M\_QPSK\_15RB#LOW\_30M\_1G\_TX

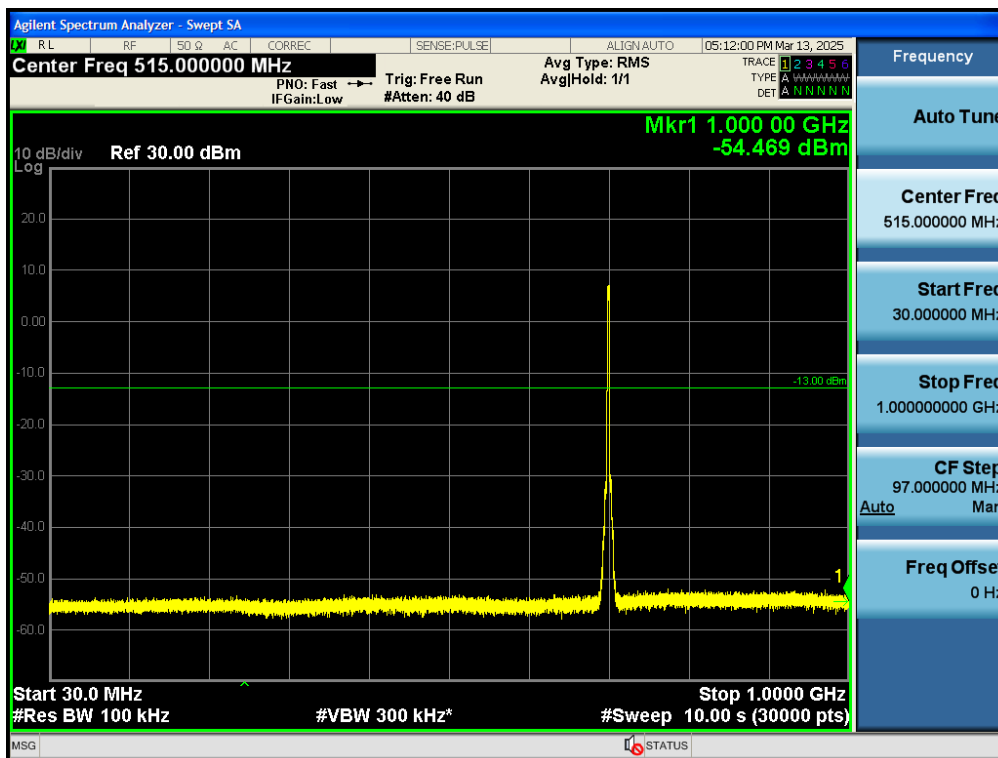


Test\_Graph\_band12\_700.5MHz\_3M\_QPSK\_15RB#LOW\_1G\_10G\_TX

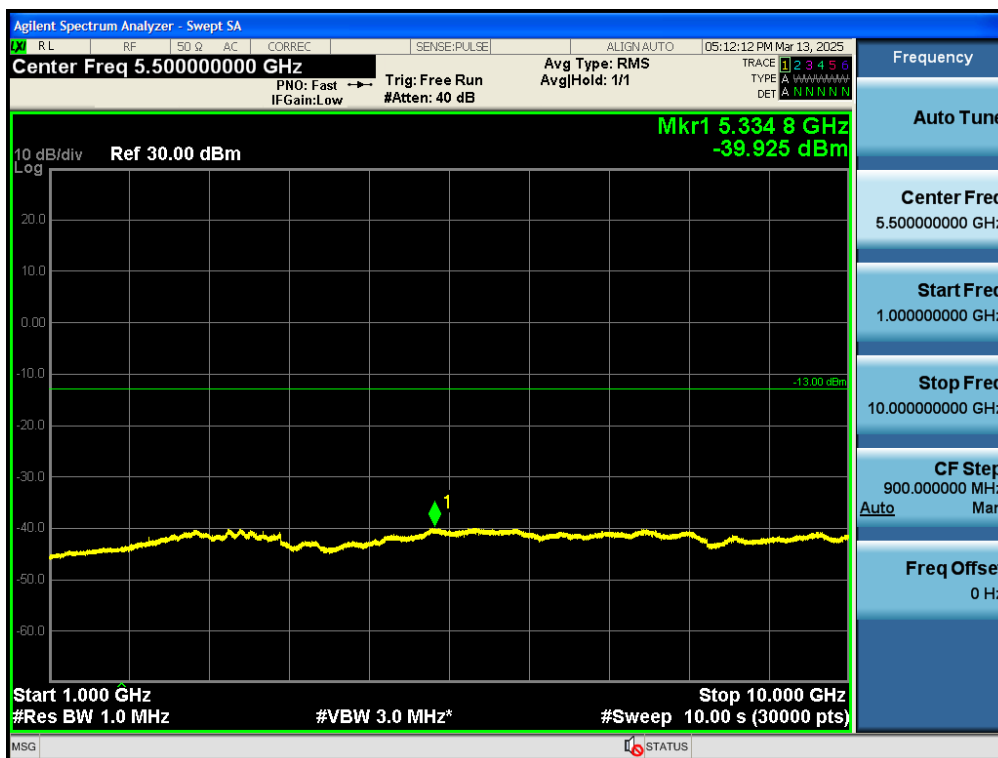


Test\_Graph\_band12\_700.5MHz\_3M\_QPSK\_15RB#LOW\_10G\_10.0G\_TX

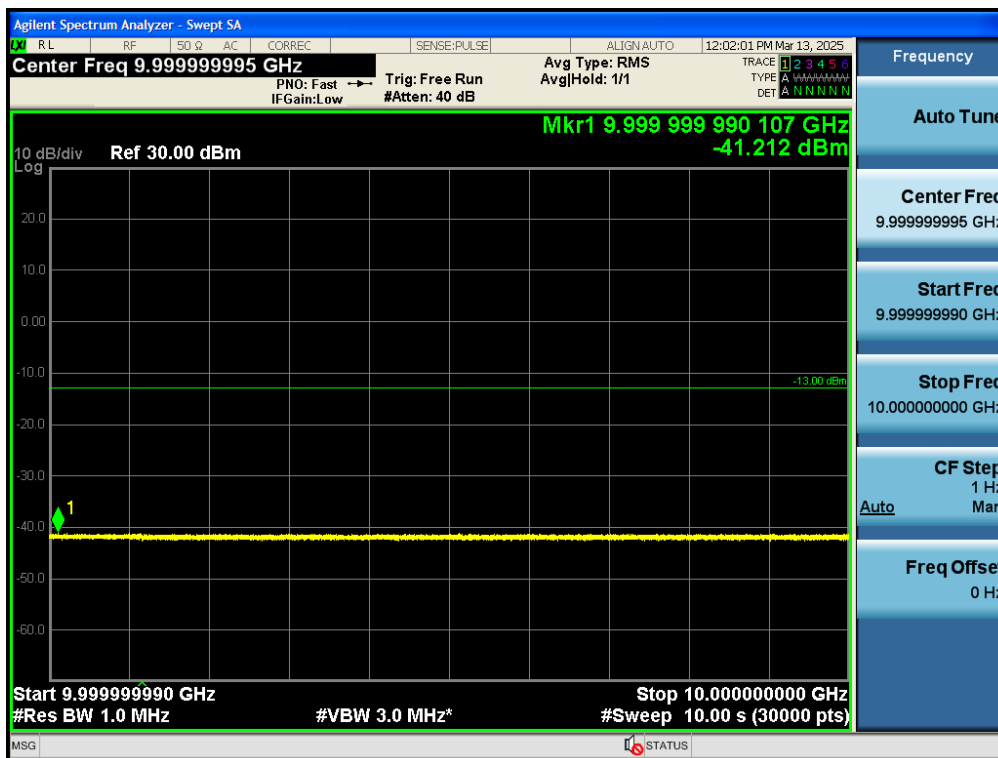




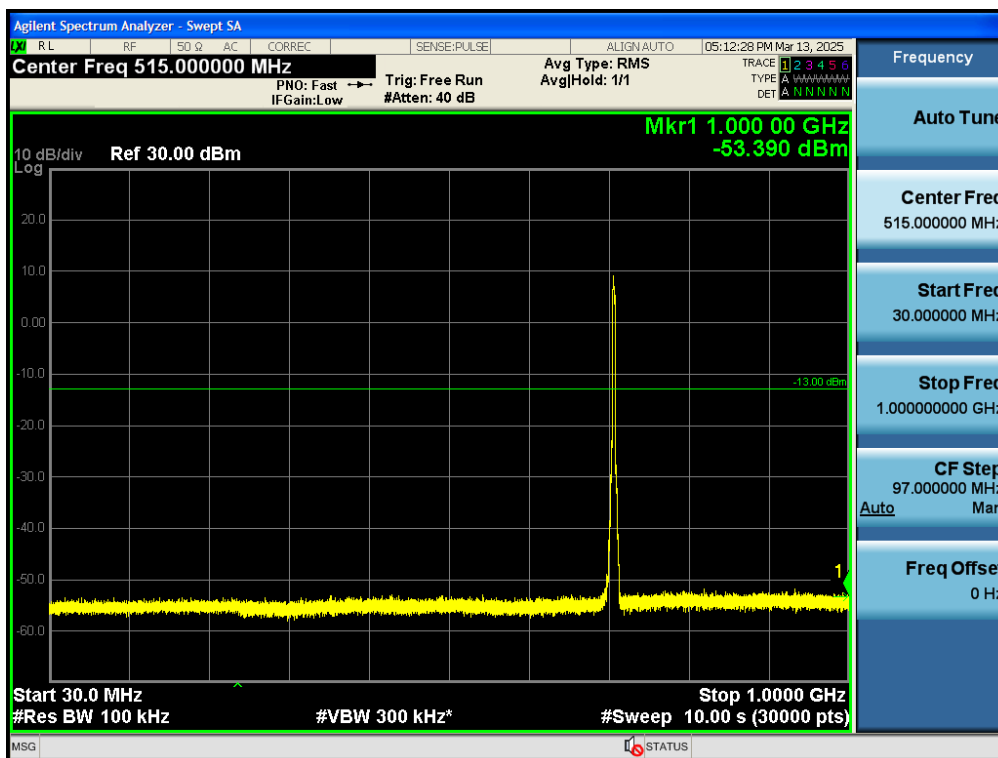
Test\_Graph\_band12\_707.5MHz\_3M\_QPSK\_15RB#LOW\_30M\_1G\_TX



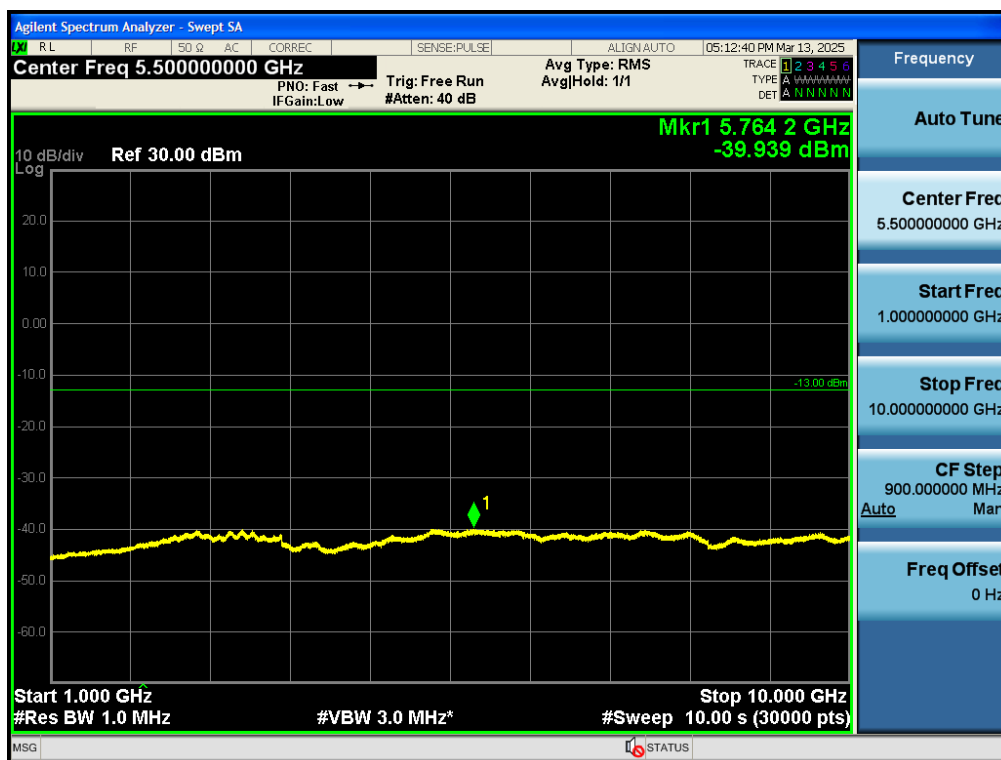
Test\_Graph\_band12\_707.5MHz\_3M\_QPSK\_15RB#LOW\_1G\_10G\_TX



Test\_Graph\_band12\_707.5MHz\_3M\_QPSK\_15RB#LOW\_10G\_10.0G\_TX



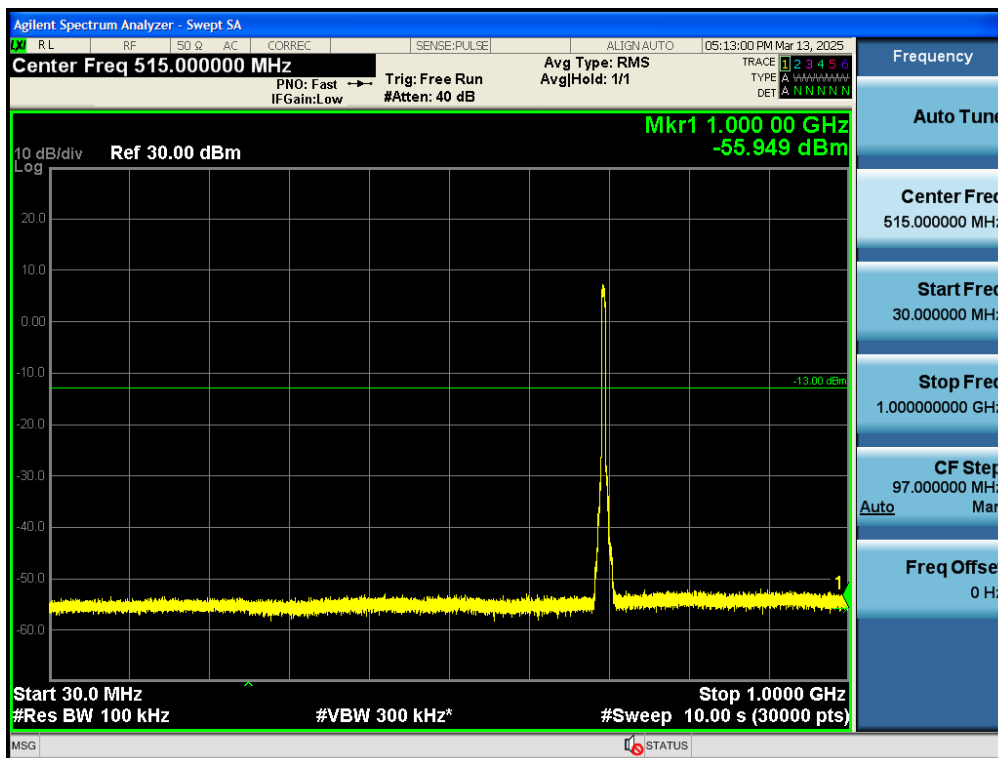
Test\_Graph\_band12\_714.5MHz\_3M\_QPSK\_15RB#LOW\_30M\_1G\_TX



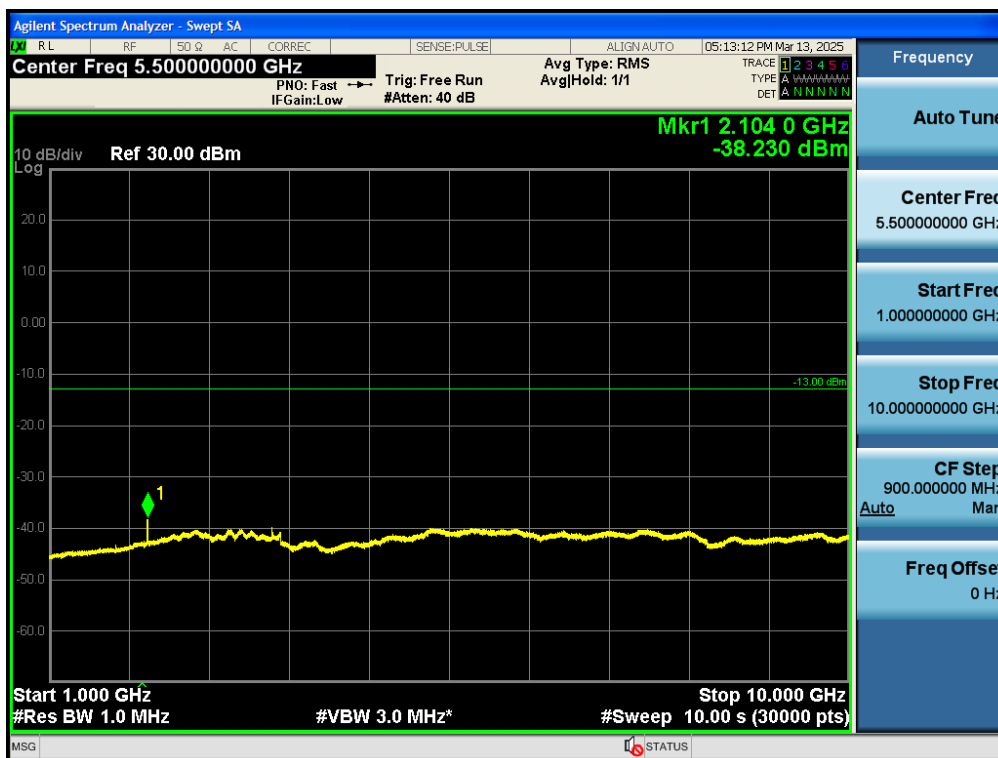
Test\_Graph\_band12\_714.5MHz\_3M\_QPSK\_15RB#LOW\_1G\_10G\_TX



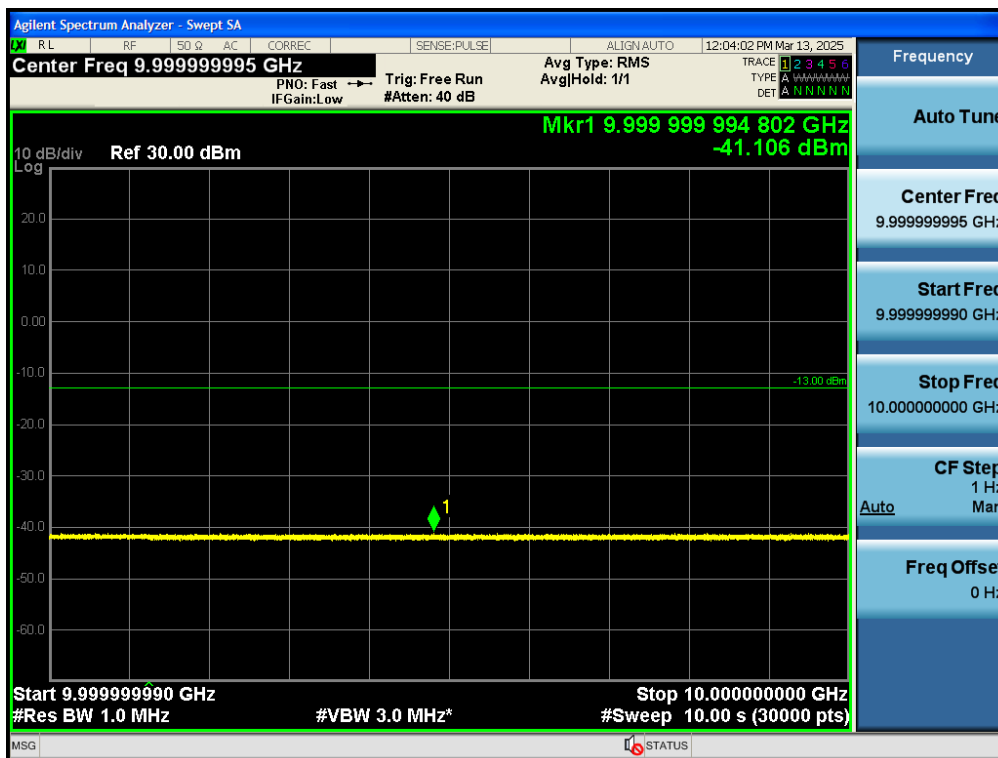
Test\_Graph\_band12\_714.5MHz\_3M\_QPSK\_15RB#LOW\_10G\_10.0G\_TX



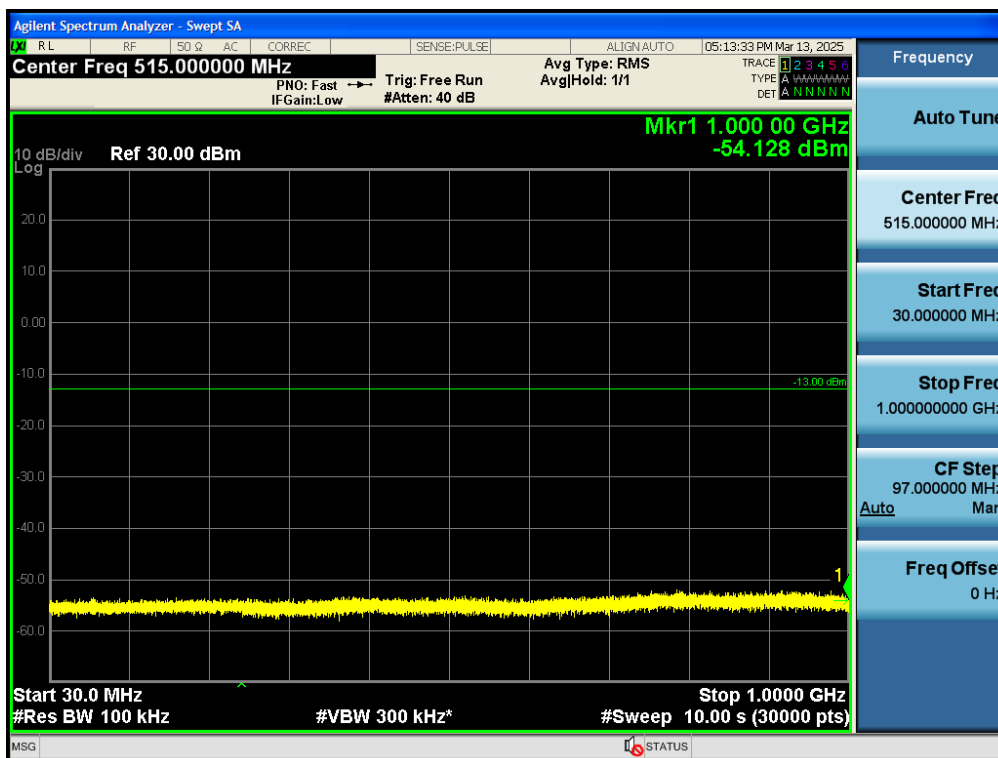
Test\_Graph\_band12\_701.5MHz\_5M\_QPSK\_25RB#LOW\_30M\_1G\_TX



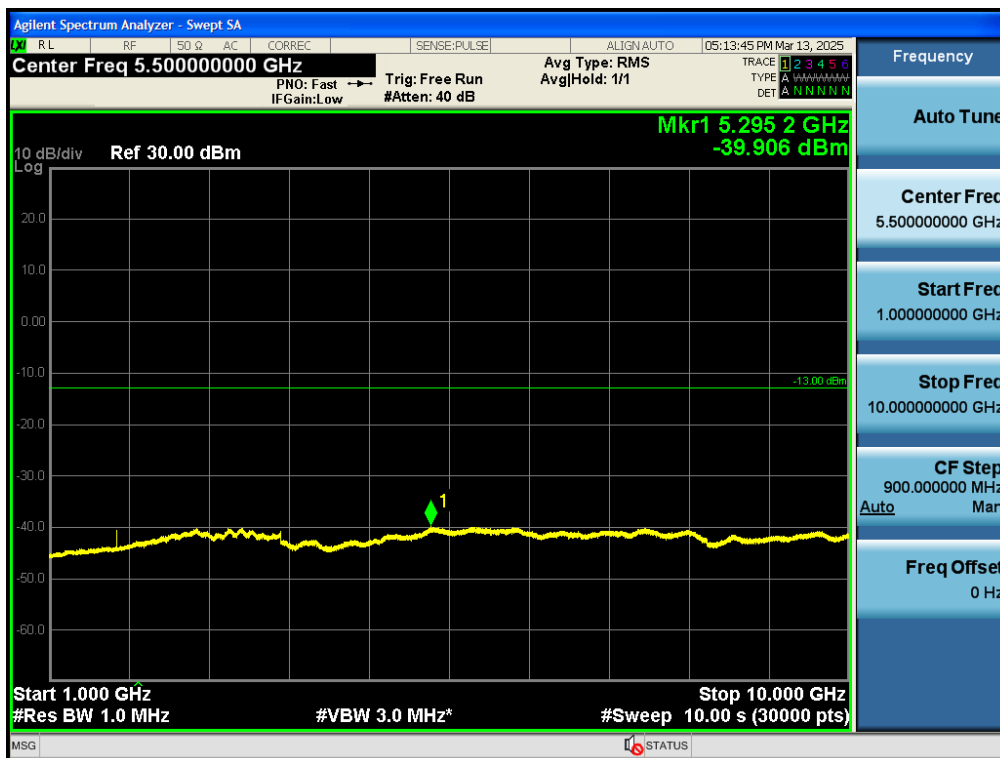
Test\_Graph\_band12\_701.5MHz\_5M\_QPSK\_25RB#LOW\_1G\_10G\_TX



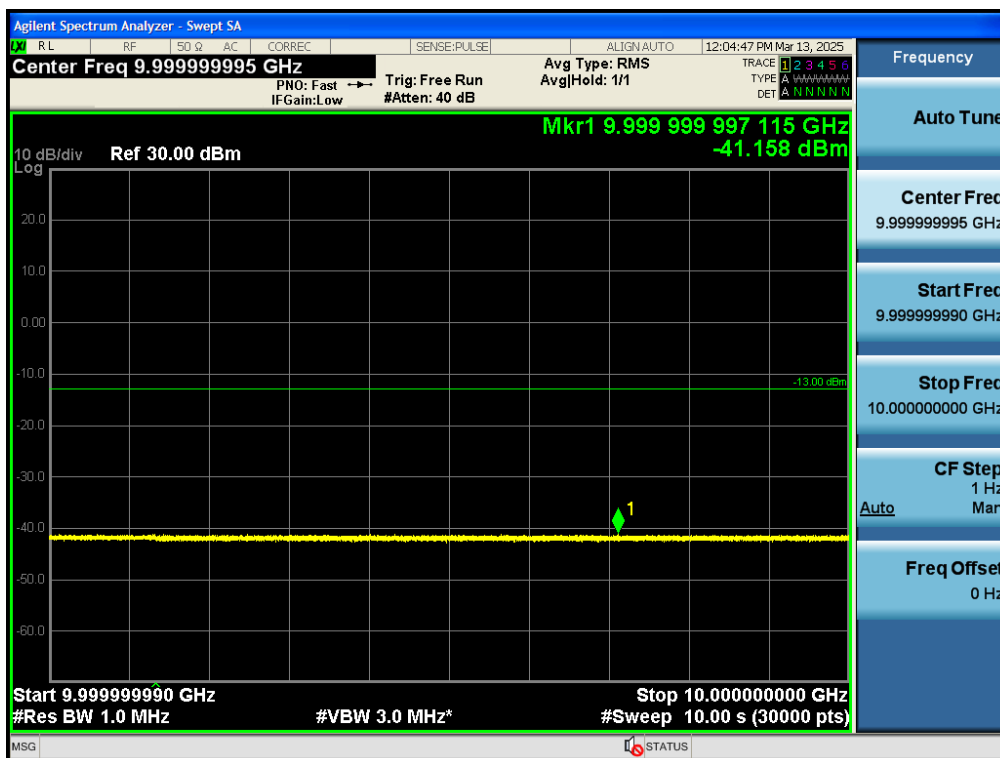
Test\_Graph\_band12\_701.5MHz\_5M\_QPSK\_25RB#LOW\_10G\_10.0G\_TX



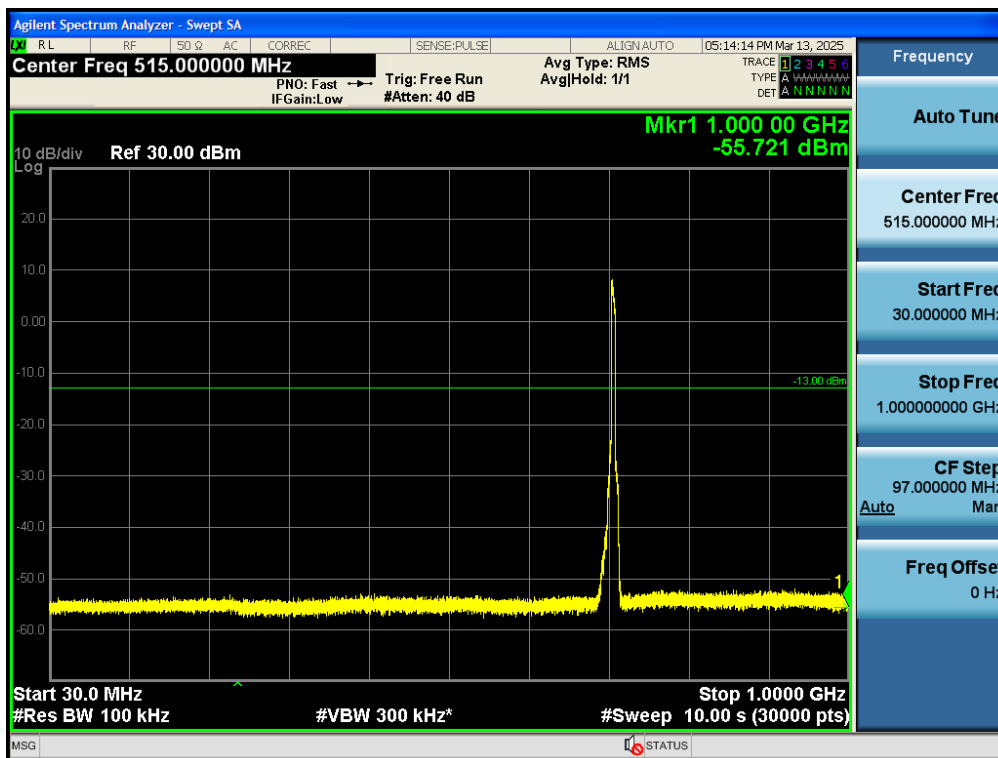
Test\_Graph\_band12\_707.5MHz\_5M\_QPSK\_25RB#LOW\_30M\_1G\_TX



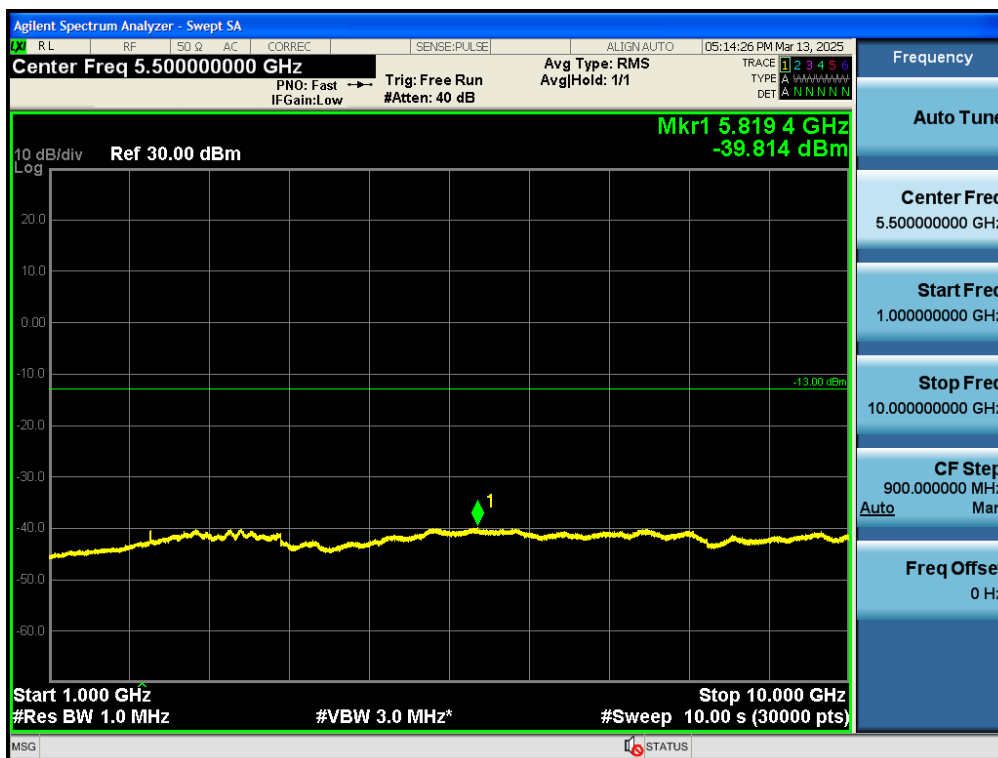
Test\_Graph\_band12\_707.5MHz\_5M\_QPSK\_25RB#LOW\_1G\_10G\_TX



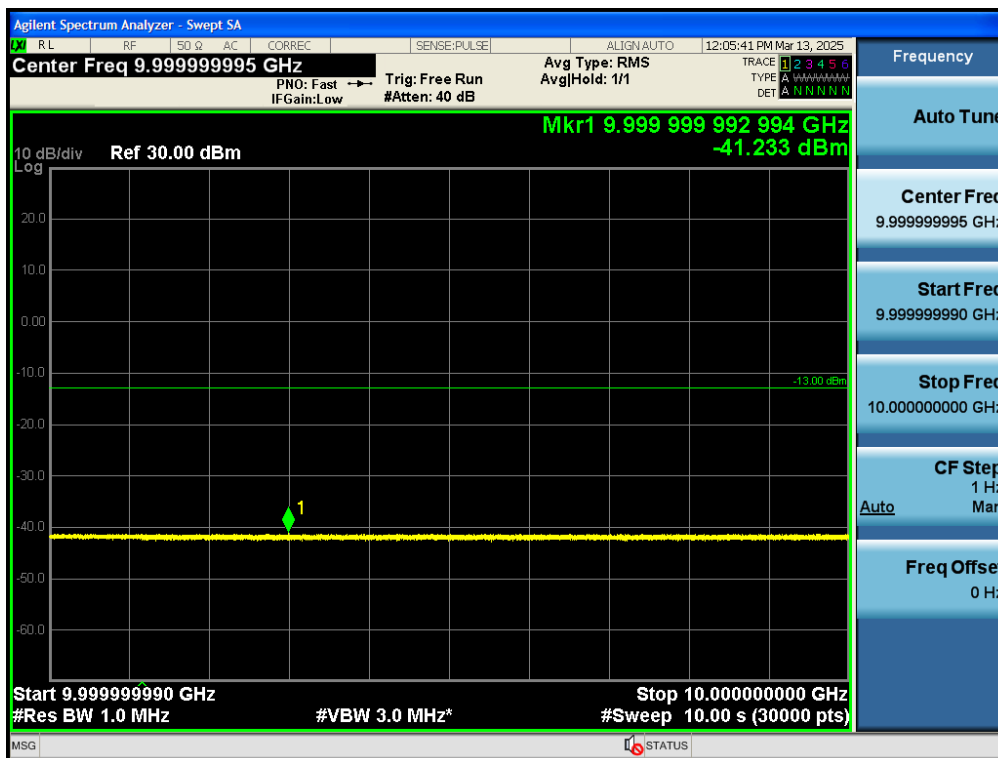
Test\_Graph\_band12\_707.5MHz\_5M\_QPSK\_25RB#LOW\_10G\_10.0G\_TX



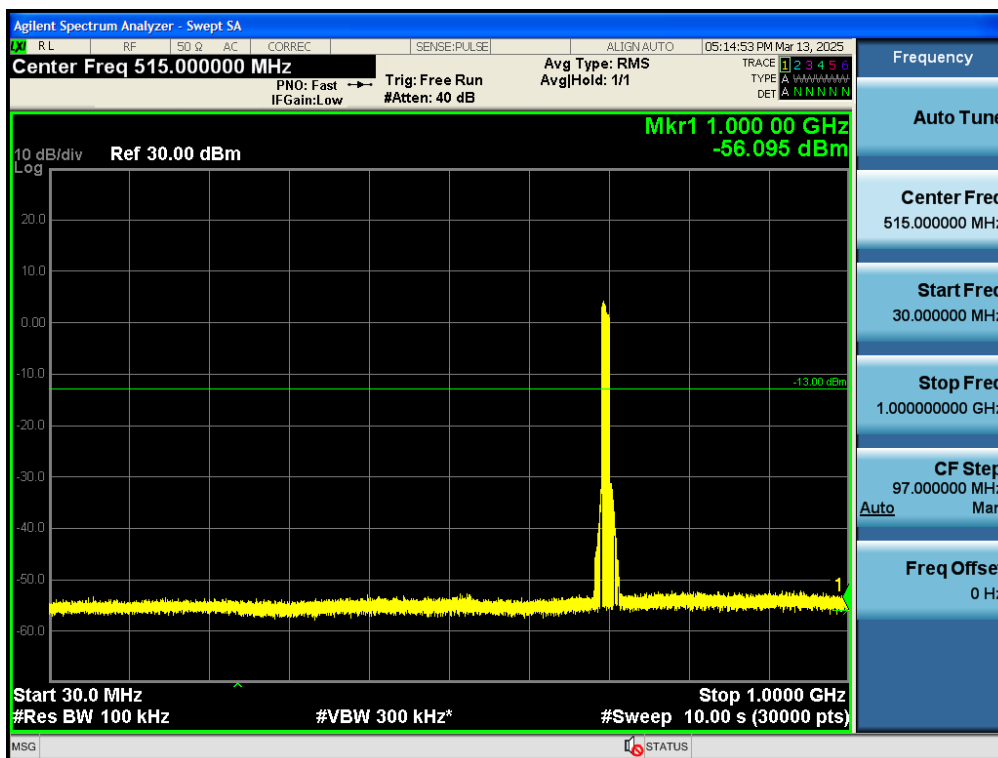
Test\_Graph\_band12\_713.5MHz\_5M\_QPSK\_25RB#LOW\_30M\_1G\_TX



Test\_Graph\_band12\_713.5MHz\_5M\_QPSK\_25RB#LOW\_1G\_10G\_TX

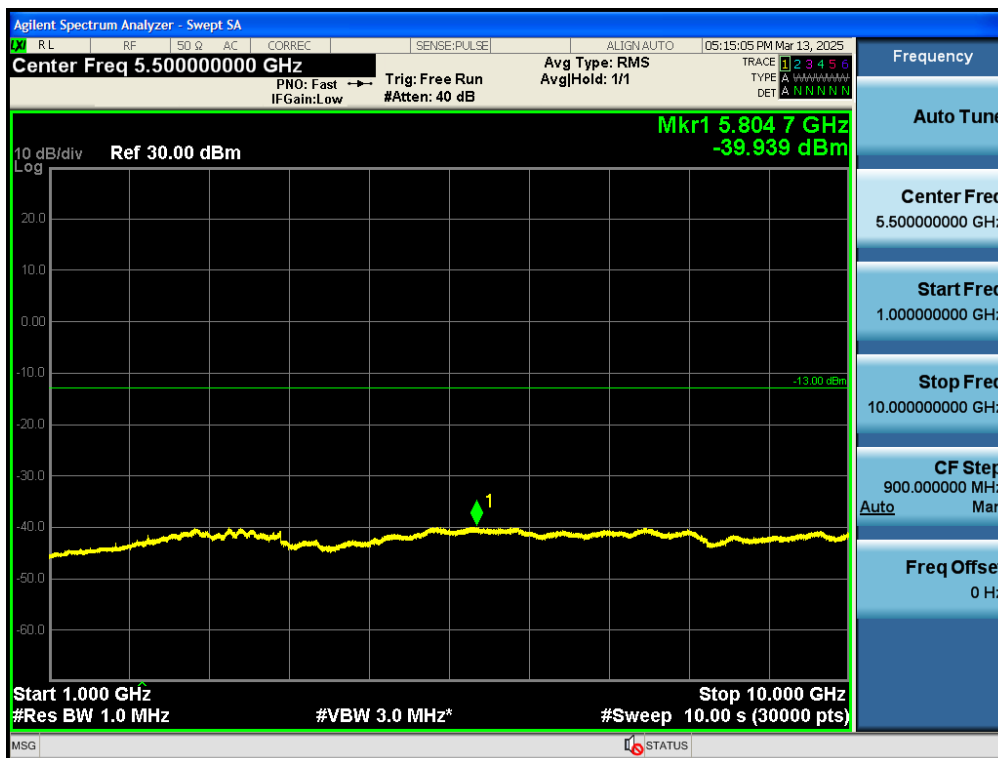


Test\_Graph\_band12\_713.5MHz\_5M\_QPSK\_25RB#LOW\_10G\_10.0G\_TX

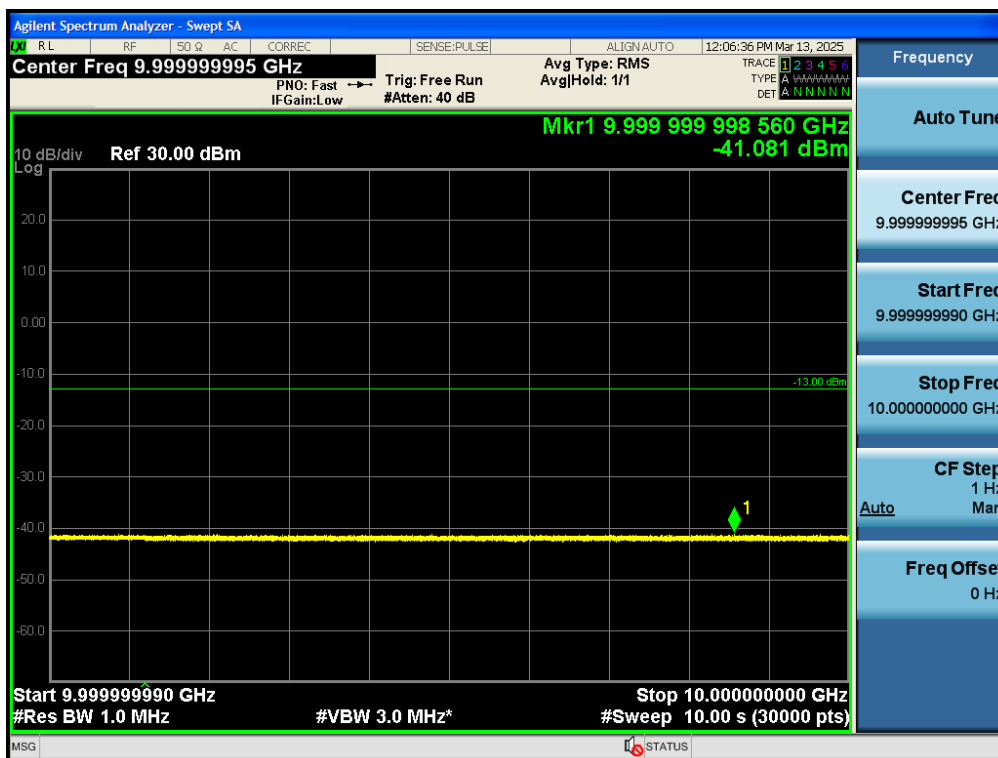


Test\_Graph\_band12\_704MHz\_10M\_QPSK\_50RB#LOW\_30M\_1G\_TX

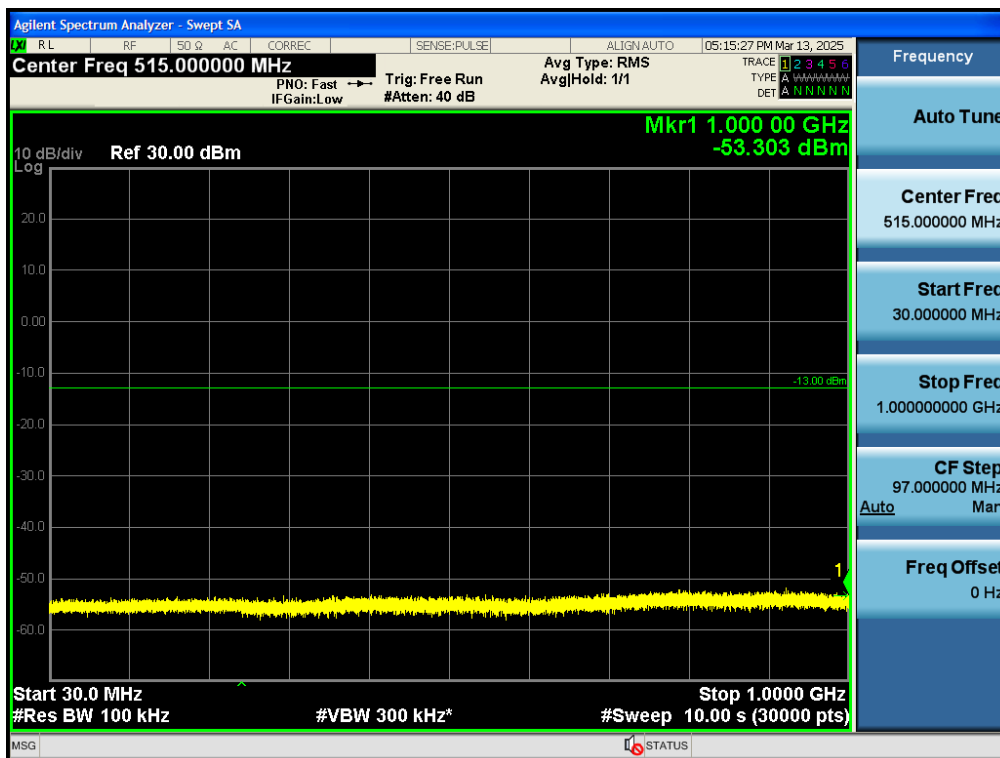




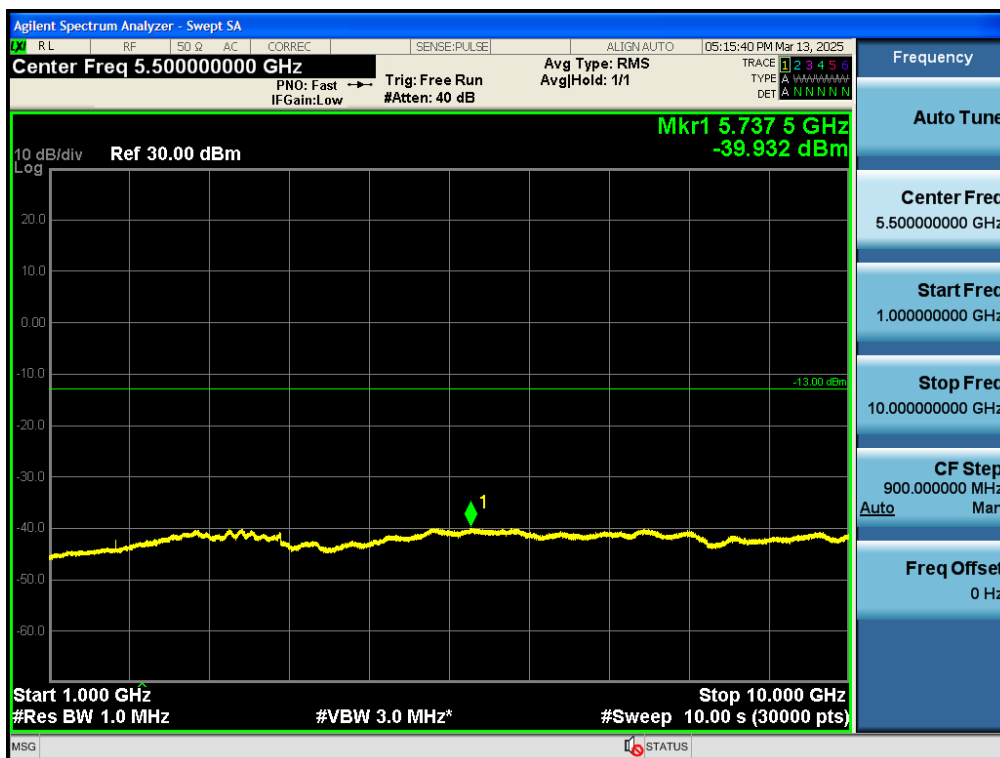
Test\_Graph\_band12\_704MHz\_10M\_QPSK\_50RB#LOW\_1G\_10G\_TX



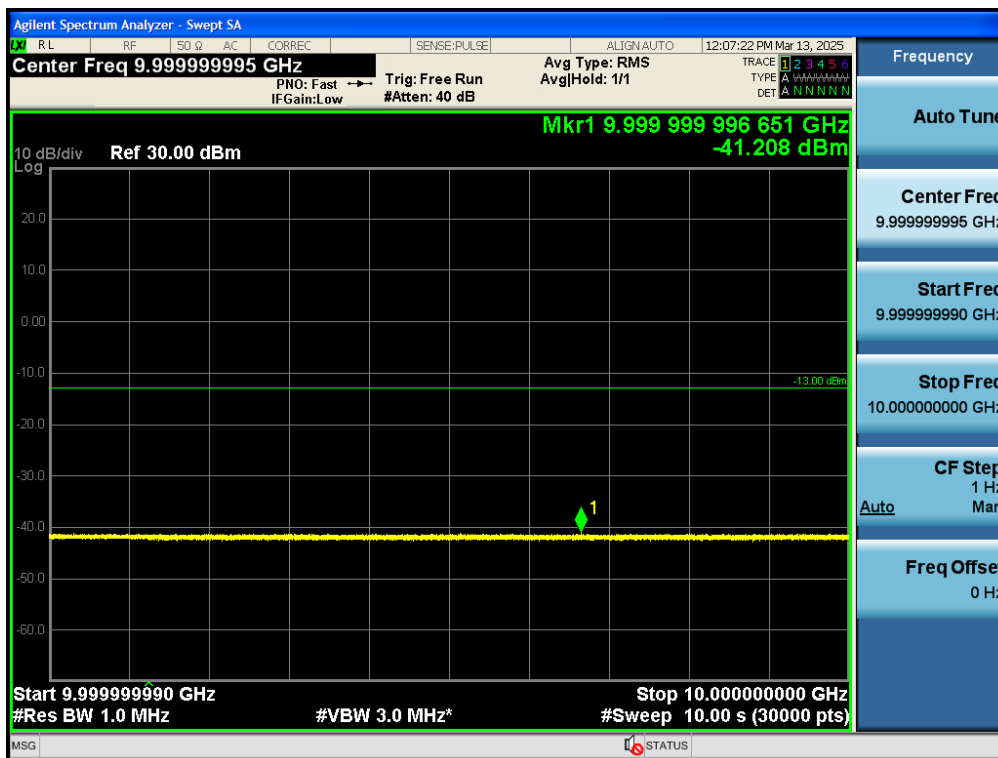
Test\_Graph\_band12\_704MHz\_10M\_QPSK\_50RB#LOW\_10G\_10.0G\_TX



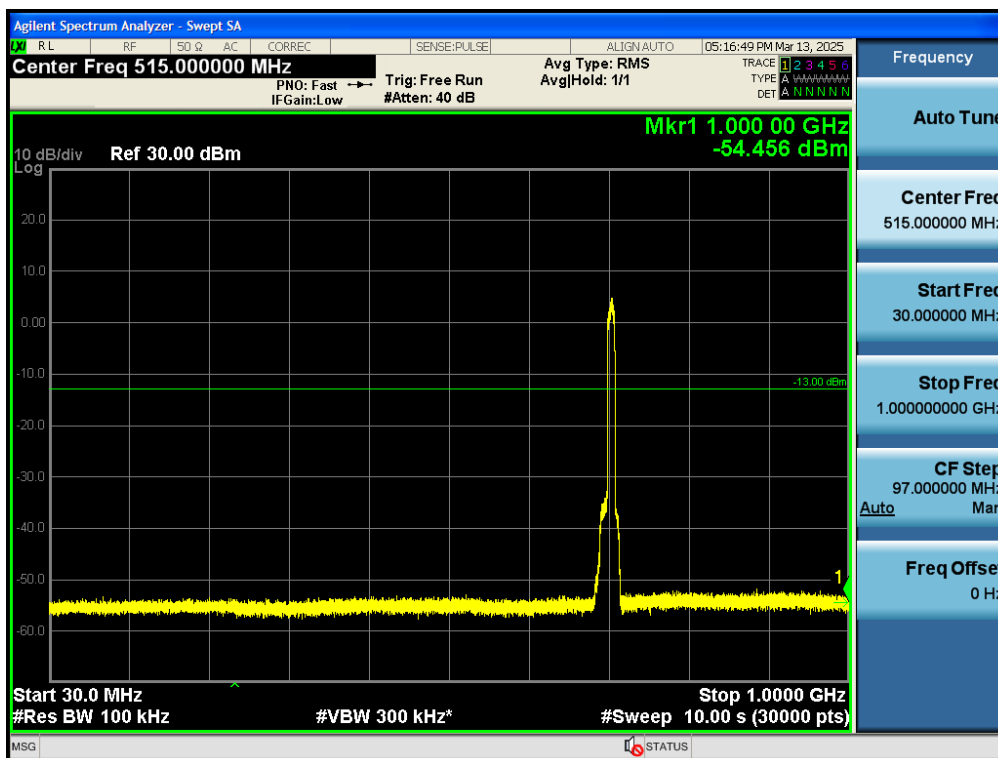
Test\_Graph\_band12\_707.5MHz\_10M\_QPSK\_50RB#LOW\_30M\_1G\_TX



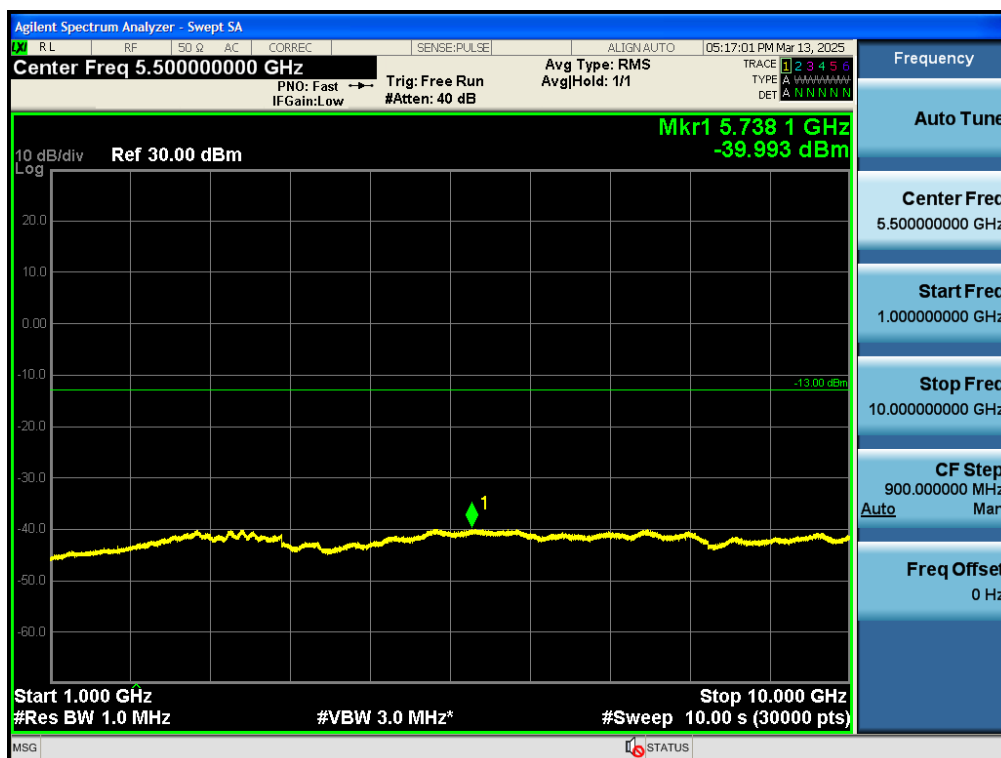
Test\_Graph\_band12\_707.5MHz\_10M\_QPSK\_50RB#LOW\_1G\_10G\_TX



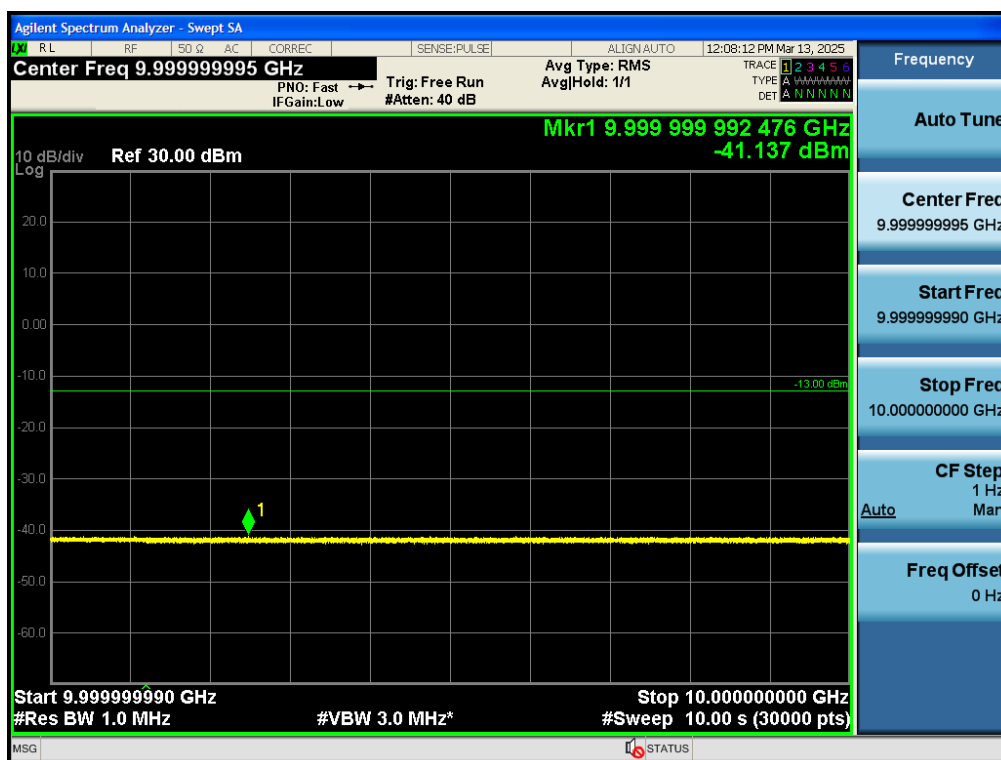
Test\_Graph\_band12\_707.5MHz\_10M\_QPSK\_50RB#LOW\_10G\_10.0G\_TX



Test\_Graph\_band12\_711MHz\_10M\_QPSK\_50RB#LOW\_30M\_1G\_TX



Test\_Graph\_band12\_711MHz\_10M\_QPSK\_50RB#LOW\_1G\_10G\_TX



Test\_Graph\_band12\_711MHz\_10M\_QPSK\_50RB#LOW\_10G\_10.0G\_TX

## Appendix E: Frequency stability

### Test Result

| Test Conditions  |                   | LTE Band 12(QPSK) /<br>Middle Channel | Limit  |
|------------------|-------------------|---------------------------------------|--------|
| Temperature (°C) | Voltage (Volt)    | BW 5MHz                               | 2.5ppm |
|                  |                   | Deviation (ppm)                       | Result |
| 50               | Normal Voltage    | 0.0062                                | PASS   |
| 40               | Normal Voltage    | 0.0067                                |        |
| 30               | Normal Voltage    | 0.0078                                |        |
| 20(Ref.)         | Normal Voltage    | 0.0052                                |        |
| 10               | Normal Voltage    | 0.0067                                |        |
| 0                | Normal Voltage    | 0.0080                                |        |
| -10              | Normal Voltage    | 0.0057                                |        |
| -20              | Normal Voltage    | 0.0081                                |        |
| -30              | Normal Voltage    | 0.0074                                |        |
| 20               | Maximum Voltage   | 0.0048                                |        |
| 20               | Normal Voltage    | 0.0062                                |        |
| 20               | Battery End Point | 0.0070                                |        |