

## Appendix Test Data for LTE band 7 (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) | EIRP<br>(dBm) | Limit<br>(dBm) | Conclusion |
|------|--------------------|-----------------------|------------|---------|-----------|------------------------|---------------------|-------------|---------------|------------------|---------------|----------------|------------|
| 7    | 5                  | 2502.5                | QPSK       | 25      | LOW       | 21.32                  | 27.19               | 5.87        | 13            | 0.47             | 21.79         | 33             | Pass       |
| 7    | 5                  | 2502.5                | QPSK       | 12      | LOW       | 21.26                  | 26.61               | 5.35        | 13            | 0.47             | 21.73         | 33             | Pass       |
| 7    | 5                  | 2502.5                | QPSK       | 12      | MID       | 21.27                  | 26.62               | 5.35        | 13            | 0.47             | 21.74         | 33             | Pass       |
| 7    | 5                  | 2502.5                | QPSK       | 12      | HIGH      | 21.46                  | 26.65               | 5.19        | 13            | 0.47             | 21.93         | 33             | Pass       |
| 7    | 5                  | 2502.5                | QPSK       | 1       | LOW       | 22.23                  | 26.55               | 4.32        | 13            | 0.47             | 22.7          | 33             | Pass       |
| 7    | 5                  | 2502.5                | QPSK       | 1       | MID       | 22.47                  | 26.34               | 3.87        | 13            | 0.47             | 22.94         | 33             | Pass       |
| 7    | 5                  | 2502.5                | QPSK       | 1       | HIGH      | 22.55                  | 26.11               | 3.56        | 13            | 0.47             | 23.02         | 33             | Pass       |
| 7    | 5                  | 2502.5                | 16QAM      | 25      | LOW       | 20.61                  | 26.92               | 6.31        | 13            | 0.47             | 21.08         | 33             | Pass       |
| 7    | 5                  | 2502.5                | 16QAM      | 12      | LOW       | 20.3                   | 26.42               | 6.12        | 13            | 0.47             | 20.77         | 33             | Pass       |
| 7    | 5                  | 2502.5                | 16QAM      | 12      | MID       | 20.29                  | 26.4                | 6.11        | 13            | 0.47             | 20.76         | 33             | Pass       |
| 7    | 5                  | 2502.5                | 16QAM      | 12      | HIGH      | 20.8                   | 26.55               | 5.75        | 13            | 0.47             | 21.27         | 33             | Pass       |
| 7    | 5                  | 2502.5                | 16QAM      | 1       | LOW       | 21.62                  | 26.42               | 4.80        | 13            | 0.47             | 22.09         | 33             | Pass       |
| 7    | 5                  | 2502.5                | 16QAM      | 1       | MID       | 21.8                   | 26.32               | 4.52        | 13            | 0.47             | 22.27         | 33             | Pass       |
| 7    | 5                  | 2502.5                | 16QAM      | 1       | HIGH      | 21.92                  | 26.17               | 4.25        | 13            | 0.47             | 22.39         | 33             | Pass       |
| 7    | 5                  | 2535                  | QPSK       | 25      | LOW       | 20.7                   | 26.37               | 5.67        | 13            | 0.47             | 21.17         | 33             | Pass       |
| 7    | 5                  | 2535                  | QPSK       | 12      | LOW       | 20.41                  | 25.6                | 5.19        | 13            | 0.47             | 20.88         | 33             | Pass       |
| 7    | 5                  | 2535                  | QPSK       | 12      | MID       | 20.39                  | 25.54               | 5.15        | 13            | 0.47             | 20.86         | 33             | Pass       |
| 7    | 5                  | 2535                  | QPSK       | 12      | HIGH      | 20.69                  | 26                  | 5.31        | 13            | 0.47             | 21.16         | 33             | Pass       |
| 7    | 5                  | 2535                  | QPSK       | 1       | LOW       | 21.14                  | 25.31               | 4.17        | 13            | 0.47             | 21.61         | 33             | Pass       |
| 7    | 5                  | 2535                  | QPSK       | 1       | MID       | 21.44                  | 25.7                | 4.26        | 13            | 0.47             | 21.91         | 33             | Pass       |
| 7    | 5                  | 2535                  | QPSK       | 1       | HIGH      | 21.7                   | 26.07               | 4.37        | 13            | 0.47             | 22.17         | 33             | Pass       |
| 7    | 5                  | 2535                  | 16QAM      | 25      | LOW       | 19.73                  | 26.22               | 6.49        | 13            | 0.47             | 20.2          | 33             | 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) | EIRP<br>(dBm) | Limit<br>(dBm) | Conclusion |
|------|--------------------|-----------------------|------------|---------|-----------|------------------------|---------------------|-------------|---------------|------------------|---------------|----------------|------------|
| 7    | 5                  | 2535                  | 16QAM      | 12      | LOW       | 19.48                  | 25.53               | 6.05        | 13            | 0.47             | 19.95         | 33             | Pass       |
| 7    | 5                  | 2535                  | 16QAM      | 12      | MID       | 19.48                  | 25.54               | 6.06        | 13            | 0.47             | 19.95         | 33             | Pass       |
| 7    | 5                  | 2535                  | 16QAM      | 12      | HIGH      | 19.82                  | 25.96               | 6.14        | 13            | 0.47             | 20.29         | 33             | Pass       |
| 7    | 5                  | 2535                  | 16QAM      | 1       | LOW       | 20.46                  | 25.4                | 4.94        | 13            | 0.47             | 20.93         | 33             | Pass       |
| 7    | 5                  | 2535                  | 16QAM      | 1       | MID       | 20.77                  | 25.77               | 5           | 13            | 0.47             | 21.24         | 33             | Pass       |
| 7    | 5                  | 2535                  | 16QAM      | 1       | HIGH      | 21.01                  | 26.14               | 5.13        | 13            | 0.47             | 21.48         | 33             | Pass       |
| 7    | 5                  | 2567.5                | QPSK       | 25      | LOW       | 19.95                  | 25.39               | 5.44        | 13            | 0.47             | 20.42         | 33             | Pass       |
| 7    | 5                  | 2567.5                | QPSK       | 12      | LOW       | 19.56                  | 24.55               | 4.99        | 13            | 0.47             | 20.03         | 33             | Pass       |
| 7    | 5                  | 2567.5                | QPSK       | 12      | MID       | 19.54                  | 24.52               | 4.98        | 13            | 0.47             | 20.01         | 33             | Pass       |
| 7    | 5                  | 2567.5                | QPSK       | 12      | HIGH      | 20.14                  | 25.12               | 4.98        | 13            | 0.47             | 20.61         | 33             | Pass       |
| 7    | 5                  | 2567.5                | QPSK       | 1       | LOW       | 20.29                  | 24.48               | 4.19        | 13            | 0.47             | 20.76         | 33             | Pass       |
| 7    | 5                  | 2567.5                | QPSK       | 1       | MID       | 20.78                  | 25.05               | 4.27        | 13            | 0.47             | 21.25         | 33             | Pass       |
| 7    | 5                  | 2567.5                | QPSK       | 1       | HIGH      | 21.51                  | 25.74               | 4.23        | 13            | 0.47             | 21.98         | 33             | Pass       |
| 7    | 5                  | 2567.5                | 16QAM      | 25      | LOW       | 19.17                  | 25.75               | 6.58        | 13            | 0.47             | 19.64         | 33             | Pass       |
| 7    | 5                  | 2567.5                | 16QAM      | 12      | LOW       | 18.81                  | 24.9                | 6.09        | 13            | 0.47             | 19.28         | 33             | Pass       |
| 7    | 5                  | 2567.5                | 16QAM      | 12      | MID       | 18.81                  | 24.92               | 6.11        | 13            | 0.47             | 19.28         | 33             | Pass       |
| 7    | 5                  | 2567.5                | 16QAM      | 12      | HIGH      | 19.36                  | 25.51               | 6.15        | 13            | 0.47             | 19.83         | 33             | Pass       |
| 7    | 5                  | 2567.5                | 16QAM      | 1       | LOW       | 19.48                  | 24.07               | 4.59        | 13            | 0.47             | 19.95         | 33             | Pass       |
| 7    | 5                  | 2567.5                | 16QAM      | 1       | MID       | 19.92                  | 24.56               | 4.64        | 13            | 0.47             | 20.39         | 33             | Pass       |
| 7    | 5                  | 2567.5                | 16QAM      | 1       | HIGH      | 20.59                  | 25.24               | 4.65        | 13            | 0.47             | 21.06         | 33             | Pass       |
| 7    | 10                 | 2505                  | QPSK       | 50      | LOW       | 20.99                  | 26.52               | 5.53        | 13            | 0.47             | 21.46         | 33             | Pass       |
| 7    | 10                 | 2505                  | QPSK       | 25      | LOW       | 21.04                  | 26.54               | 5.5         | 13            | 0.47             | 21.51         | 33             | Pass       |
| 7    | 10                 | 2505                  | QPSK       | 25      | MID       | 21.06                  | 26.56               | 5.5         | 13            | 0.47             | 21.53         | 33             | Pass       |
| 7    | 10                 | 2505                  | QPSK       | 25      | HIGH      | 20.99                  | 26.18               | 5.19        | 13            | 0.47             | 21.46         | 33             | Pass       |
| 7    | 10                 | 2505                  | QPSK       | 1       | LOW       | 22.1                   | 26.35               | 4.25        | 13            | 0.47             | 22.57         | 33             | Pass       |
| 7    | 10                 | 2505                  | QPSK       | 1       | MID       | 22.35                  | 26.05               | 3.70        | 13            | 0.47             | 22.82         | 33             | Pass       |
| 7    | 10                 | 2505                  | QPSK       | 1       | HIGH      | 21.12                  | 25.16               | 4.04        | 13            | 0.47             | 21.59         | 33             | Pass       |
| 7    | 10                 | 2505                  | 16QAM      | 25      | LOW       | 20.47                  | 26.65               | 6.18        | 13            | 0.47             | 20.94         | 33             | Pass       |
| 7    | 10                 | 2505                  | 16QAM      | 25      | MID       | 20.45                  | 26.64               | 6.19        | 13            | 0.47             | 20.92         | 33             | Pass       |
| 7    | 10                 | 2505                  | 16QAM      | 25      | HIGH      | 20.2                   | 26.06               | 5.86        | 13            | 0.47             | 20.67         | 33             | Pass       |
| 7    | 10                 | 2505                  | 16QAM      | 1       | LOW       | 21.77                  | 26.72               | 4.95        | 13            | 0.47             | 22.24         | 33             | Pass       |
| 7    | 10                 | 2505                  | 16QAM      | 1       | MID       | 21.91                  | 26.19               | 4.28        | 13            | 0.47             | 22.38         | 33             | Pass       |
| 7    | 10                 | 2505                  | 16QAM      | 1       | HIGH      | 20.95                  | 25.36               | 4.41        | 13            | 0.47             | 21.42         | 33             | Pass       |
| 7    | 10                 | 2535                  | QPSK       | 50      | LOW       | 20.59                  | 26.23               | 5.64        | 13            | 0.47             | 21.06         | 33             | Pass       |
| 7    | 10                 | 2535                  | QPSK       | 25      | LOW       | 20.1                   | 25.42               | 5.32        | 13            | 0.47             | 20.57         | 33             | Pass       |
| 7    | 10                 | 2535                  | QPSK       | 25      | MID       | 20.11                  | 25.43               | 5.32        | 13            | 0.47             | 20.58         | 33             | Pass       |
| 7    | 10                 | 2535                  | QPSK       | 25      | HIGH      | 20.67                  | 26.29               | 5.62        | 13            | 0.47             | 21.14         | 33             | Pass       |
| 7    | 10                 | 2535                  | QPSK       | 1       | LOW       | 20.91                  | 25.07               | 4.16        | 13            | 0.47             | 21.38         | 33             | Pass       |
| 7    | 10                 | 2535                  | QPSK       | 1       | MID       | 21.28                  | 25.72               | 4.44        | 13            | 0.47             | 21.75         | 33             | Pass       |
| 7    | 10                 | 2535                  | QPSK       | 1       | HIGH      | 21.95                  | 26.54               | 4.59        | 13            | 0.47             | 22.42         | 33             | Pass       |
| 7    | 10                 | 2535                  | 16QAM      | 25      | LOW       | 19.25                  | 25.7                | 6.45        | 13            | 0.47             | 19.72         | 33             | 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) | EIRP<br>(dBm) | Limit<br>(dBm) | Conclusion |
|------|--------------------|-----------------------|------------|---------|-----------|------------------------|---------------------|-------------|---------------|------------------|---------------|----------------|------------|
| 7    | 10                 | 2535                  | 16QAM      | 25      | MID       | 19.26                  | 25.69               | 6.43        | 13            | 0.47             | 19.73         | 33             | Pass       |
| 7    | 10                 | 2535                  | 16QAM      | 25      | HIGH      | 19.84                  | 26.29               | 6.45        | 13            | 0.47             | 20.31         | 33             | Pass       |
| 7    | 10                 | 2535                  | 16QAM      | 1       | LOW       | 20.2                   | 24.63               | 4.43        | 13            | 0.47             | 20.67         | 33             | Pass       |
| 7    | 10                 | 2535                  | 16QAM      | 1       | MID       | 20.68                  | 25.15               | 4.47        | 13            | 0.47             | 21.15         | 33             | Pass       |
| 7    | 10                 | 2535                  | 16QAM      | 1       | HIGH      | 21.25                  | 25.84               | 4.59        | 13            | 0.47             | 21.72         | 33             | Pass       |
| 7    | 10                 | 2565                  | QPSK       | 50      | LOW       | 19.49                  | 25.09               | 5.60        | 13            | 0.47             | 19.96         | 33             | Pass       |
| 7    | 10                 | 2565                  | QPSK       | 25      | LOW       | 19.12                  | 24.49               | 5.37        | 13            | 0.47             | 19.59         | 33             | Pass       |
| 7    | 10                 | 2565                  | QPSK       | 25      | MID       | 19.1                   | 24.48               | 5.38        | 13            | 0.47             | 19.57         | 33             | Pass       |
| 7    | 10                 | 2565                  | QPSK       | 25      | HIGH      | 19.73                  | 25.12               | 5.39        | 13            | 0.47             | 20.2          | 33             | Pass       |
| 7    | 10                 | 2565                  | QPSK       | 1       | LOW       | 19.8                   | 23.87               | 4.07        | 13            | 0.47             | 20.27         | 33             | Pass       |
| 7    | 10                 | 2565                  | QPSK       | 1       | MID       | 20.18                  | 24.08               | 3.90        | 13            | 0.47             | 20.65         | 33             | Pass       |
| 7    | 10                 | 2565                  | QPSK       | 1       | HIGH      | 21.36                  | 25.28               | 3.92        | 13            | 0.47             | 21.83         | 33             | Pass       |
| 7    | 10                 | 2565                  | 16QAM      | 25      | LOW       | 18.3                   | 24.43               | 6.13        | 13            | 0.47             | 18.77         | 33             | Pass       |
| 7    | 10                 | 2565                  | 16QAM      | 25      | MID       | 18.34                  | 24.45               | 6.11        | 13            | 0.47             | 18.81         | 33             | Pass       |
| 7    | 10                 | 2565                  | 16QAM      | 25      | HIGH      | 19.01                  | 25.15               | 6.14        | 13            | 0.47             | 19.48         | 33             | Pass       |
| 7    | 10                 | 2565                  | 16QAM      | 1       | LOW       | 19.05                  | 23.79               | 4.74        | 13            | 0.47             | 19.52         | 33             | Pass       |
| 7    | 10                 | 2565                  | 16QAM      | 1       | MID       | 19.39                  | 23.97               | 4.58        | 13            | 0.47             | 19.86         | 33             | Pass       |
| 7    | 10                 | 2565                  | 16QAM      | 1       | HIGH      | 20.5                   | 25.09               | 4.59        | 13            | 0.47             | 20.97         | 33             | Pass       |
| 7    | 15                 | 2507.5                | QPSK       | 75      | LOW       | 20.44                  | 26.62               | 6.18        | 13            | 0.47             | 20.91         | 33             | Pass       |
| 7    | 15                 | 2507.5                | QPSK       | 38      | LOW       | 20.48                  | 26.64               | 6.16        | 13            | 0.47             | 20.95         | 33             | Pass       |
| 7    | 15                 | 2507.5                | QPSK       | 38      | MID       | 20.5                   | 26.64               | 6.14        | 13            | 0.47             | 20.97         | 33             | Pass       |
| 7    | 15                 | 2507.5                | QPSK       | 38      | HIGH      | 20.48                  | 26.63               | 6.15        | 13            | 0.47             | 20.95         | 33             | Pass       |
| 7    | 15                 | 2507.5                | QPSK       | 1       | LOW       | 21.72                  | 26.26               | 4.54        | 13            | 0.47             | 22.19         | 33             | Pass       |
| 7    | 15                 | 2507.5                | QPSK       | 1       | MID       | 21.58                  | 25.63               | 4.05        | 13            | 0.47             | 22.05         | 33             | Pass       |
| 7    | 15                 | 2507.5                | QPSK       | 1       | HIGH      | 21.05                  | 24.86               | 3.81        | 13            | 0.47             | 21.52         | 33             | Pass       |
| 7    | 15                 | 2507.5                | 16QAM      | 1       | LOW       | 21.53                  | 26.8                | 5.27        | 13            | 0.47             | 22            | 33             | Pass       |
| 7    | 15                 | 2507.5                | 16QAM      | 1       | MID       | 21.54                  | 25.89               | 4.35        | 13            | 0.47             | 22.01         | 33             | Pass       |
| 7    | 15                 | 2507.5                | 16QAM      | 1       | HIGH      | 20.88                  | 24.97               | 4.09        | 13            | 0.47             | 21.35         | 33             | Pass       |
| 7    | 15                 | 2535                  | QPSK       | 75      | LOW       | 20.65                  | 26.75               | 6.10        | 13            | 0.47             | 21.12         | 33             | Pass       |
| 7    | 15                 | 2535                  | QPSK       | 38      | LOW       | 20.6                   | 26.77               | 6.17        | 13            | 0.47             | 21.07         | 33             | Pass       |
| 7    | 15                 | 2535                  | QPSK       | 38      | MID       | 20.61                  | 26.72               | 6.11        | 13            | 0.47             | 21.08         | 33             | Pass       |
| 7    | 15                 | 2535                  | QPSK       | 38      | HIGH      | 20.62                  | 26.73               | 6.11        | 13            | 0.47             | 21.09         | 33             | Pass       |
| 7    | 15                 | 2535                  | QPSK       | 1       | LOW       | 20.54                  | 24.71               | 4.17        | 13            | 0.47             | 21.01         | 33             | Pass       |
| 7    | 15                 | 2535                  | QPSK       | 1       | MID       | 21.27                  | 25.72               | 4.45        | 13            | 0.47             | 21.74         | 33             | Pass       |
| 7    | 15                 | 2535                  | QPSK       | 1       | HIGH      | 22.06                  | 26.77               | 4.71        | 13            | 0.47             | 22.53         | 33             | Pass       |
| 7    | 15                 | 2535                  | 16QAM      | 1       | LOW       | 19.9                   | 24.35               | 4.45        | 13            | 0.47             | 20.37         | 33             | Pass       |
| 7    | 15                 | 2535                  | 16QAM      | 1       | MID       | 20.64                  | 25.2                | 4.56        | 13            | 0.47             | 21.11         | 33             | Pass       |
| 7    | 15                 | 2535                  | 16QAM      | 1       | HIGH      | 21.4                   | 26.06               | 4.66        | 13            | 0.47             | 21.87         | 33             | Pass       |
| 7    | 15                 | 2562.5                | QPSK       | 75      | LOW       | 19.72                  | 25.59               | 5.87        | 13            | 0.47             | 20.19         | 33             | Pass       |
| 7    | 15                 | 2562.5                | QPSK       | 38      | LOW       | 19.66                  | 25.57               | 5.91        | 13            | 0.47             | 20.13         | 33             | Pass       |
| 7    | 15                 | 2562.5                | QPSK       | 38      | MID       | 19.71                  | 25.56               | 5.85        | 13            | 0.47             | 20.18         | 33             | Pass       |

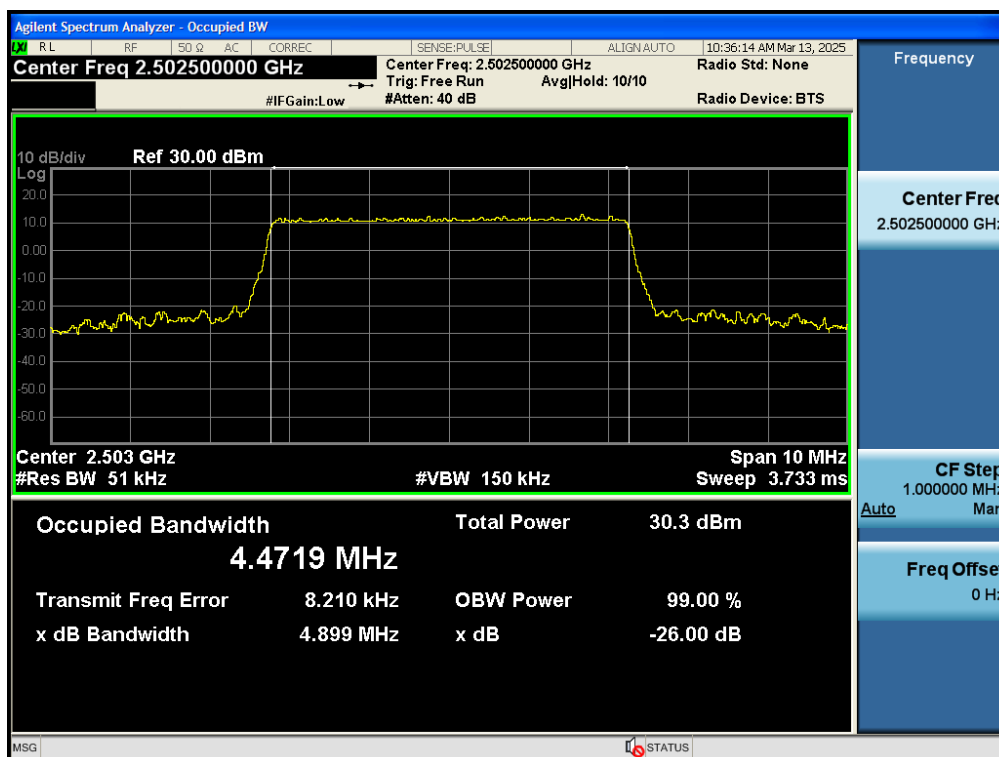
| Band | Bandwidth<br>(MHz) | UL Frequency<br>(MHz) | Modulation | RB Size | RB Offset | Average Power<br>(dBm) | Peak Power<br>(dBm) | PAR<br>(dB) | Limit<br>(dB) | AntGain<br>(dBi) | EIRP<br>(dBm) | Limit<br>(dBm) | Conclusion |
|------|--------------------|-----------------------|------------|---------|-----------|------------------------|---------------------|-------------|---------------|------------------|---------------|----------------|------------|
| 7    | 15                 | 2562.5                | QPSK       | 38      | HIGH      | 19.69                  | 25.56               | 5.87        | 13            | 0.47             | 20.16         | 33             | Pass       |
| 7    | 15                 | 2562.5                | QPSK       | 1       | LOW       | 20.5                   | 24.47               | 3.97        | 13            | 0.47             | 20.97         | 33             | Pass       |
| 7    | 15                 | 2562.5                | QPSK       | 1       | MID       | 20.09                  | 23.85               | 3.76        | 13            | 0.47             | 20.56         | 33             | Pass       |
| 7    | 15                 | 2562.5                | QPSK       | 1       | HIGH      | 21.16                  | 24.99               | 3.83        | 13            | 0.47             | 21.63         | 33             | Pass       |
| 7    | 15                 | 2562.5                | 16QAM      | 1       | LOW       | 19.87                  | 24.47               | 4.60        | 13            | 0.47             | 20.34         | 33             | Pass       |
| 7    | 15                 | 2562.5                | 16QAM      | 1       | MID       | 19.68                  | 23.97               | 4.29        | 13            | 0.47             | 20.15         | 33             | Pass       |
| 7    | 15                 | 2562.5                | 16QAM      | 1       | HIGH      | 20.64                  | 25.02               | 4.38        | 13            | 0.47             | 21.11         | 33             | Pass       |
| 7    | 20                 | 2510                  | QPSK       | 100     | LOW       | 19.78                  | 25.63               | 5.85        | 13            | 0.47             | 20.25         | 33             | Pass       |
| 7    | 20                 | 2510                  | QPSK       | 50      | LOW       | 20.91                  | 26.46               | 5.55        | 13            | 0.47             | 21.38         | 33             | Pass       |
| 7    | 20                 | 2510                  | QPSK       | 50      | MID       | 20.96                  | 26.48               | 5.52        | 13            | 0.47             | 21.43         | 33             | Pass       |
| 7    | 20                 | 2510                  | QPSK       | 50      | HIGH      | 20.15                  | 25.3                | 5.15        | 13            | 0.47             | 20.62         | 33             | Pass       |
| 7    | 20                 | 2510                  | QPSK       | 1       | LOW       | 21.9                   | 26.54               | 4.64        | 13            | 0.47             | 22.37         | 33             | Pass       |
| 7    | 20                 | 2510                  | QPSK       | 1       | MID       | 21.12                  | 25.26               | 4.14        | 13            | 0.47             | 21.59         | 33             | Pass       |
| 7    | 20                 | 2510                  | QPSK       | 1       | HIGH      | 20.33                  | 24.37               | 4.04        | 13            | 0.47             | 20.80         | 33             | Pass       |
| 7    | 20                 | 2510                  | 16QAM      | 1       | LOW       | 21.31                  | 26.37               | 5.06        | 13            | 0.47             | 21.78         | 33             | Pass       |
| 7    | 20                 | 2510                  | 16QAM      | 1       | MID       | 20.57                  | 25.23               | 4.66        | 13            | 0.47             | 21.04         | 33             | Pass       |
| 7    | 20                 | 2510                  | 16QAM      | 1       | HIGH      | 19.78                  | 24.39               | 4.61        | 13            | 0.47             | 20.25         | 33             | Pass       |
| 7    | 20                 | 2535                  | QPSK       | 100     | LOW       | 20.82                  | 26.75               | 5.93        | 13            | 0.47             | 21.29         | 33             | Pass       |
| 7    | 20                 | 2535                  | QPSK       | 50      | LOW       | 20.03                  | 25.41               | 5.38        | 13            | 0.47             | 20.5          | 33             | Pass       |
| 7    | 20                 | 2535                  | QPSK       | 50      | MID       | 20.03                  | 25.34               | 5.31        | 13            | 0.47             | 20.5          | 33             | Pass       |
| 7    | 20                 | 2535                  | QPSK       | 50      | HIGH      | 20.97                  | 26.8                | 5.83        | 13            | 0.47             | 21.44         | 33             | Pass       |
| 7    | 20                 | 2535                  | QPSK       | 1       | LOW       | 20.36                  | 24.44               | 4.08        | 13            | 0.47             | 20.83         | 33             | Pass       |
| 7    | 20                 | 2535                  | QPSK       | 1       | MID       | 21.36                  | 25.64               | 4.28        | 13            | 0.47             | 21.83         | 33             | Pass       |
| 7    | 20                 | 2535                  | QPSK       | 1       | HIGH      | 22.24                  | 26.64               | 4.40        | 13            | 0.47             | 22.71         | 33             | Pass       |
| 7    | 20                 | 2535                  | 16QAM      | 1       | LOW       | 19.78                  | 24.53               | 4.75        | 13            | 0.47             | 20.25         | 33             | Pass       |
| 7    | 20                 | 2535                  | 16QAM      | 1       | MID       | 20.8                   | 25.81               | 5.01        | 13            | 0.47             | 21.27         | 33             | Pass       |
| 7    | 20                 | 2535                  | 16QAM      | 1       | HIGH      | 21.46                  | 26.72               | 5.26        | 13            | 0.47             | 21.93         | 33             | Pass       |
| 7    | 20                 | 2560                  | QPSK       | 100     | LOW       | 19.65                  | 25.62               | 5.97        | 13            | 0.47             | 20.12         | 33             | Pass       |
| 7    | 20                 | 2560                  | QPSK       | 50      | LOW       | 19.5                   | 25.23               | 5.73        | 13            | 0.47             | 19.97         | 33             | Pass       |
| 7    | 20                 | 2560                  | QPSK       | 50      | MID       | 19.52                  | 25.21               | 5.69        | 13            | 0.47             | 19.99         | 33             | Pass       |
| 7    | 20                 | 2560                  | QPSK       | 50      | HIGH      | 19.56                  | 24.86               | 5.30        | 13            | 0.47             | 20.03         | 33             | Pass       |
| 7    | 20                 | 2560                  | QPSK       | 1       | LOW       | 20.8                   | 25.41               | 4.61        | 13            | 0.47             | 21.27         | 33             | Pass       |
| 7    | 20                 | 2560                  | QPSK       | 1       | MID       | 19.89                  | 24.11               | 4.22        | 13            | 0.47             | 20.36         | 33             | Pass       |
| 7    | 20                 | 2560                  | QPSK       | 1       | HIGH      | 21.02                  | 25.2                | 4.18        | 13            | 0.47             | 21.49         | 33             | Pass       |
| 7    | 20                 | 2560                  | 16QAM      | 1       | LOW       | 20.7                   | 25.46               | 4.76        | 13            | 0.47             | 21.17         | 33             | Pass       |
| 7    | 20                 | 2560                  | 16QAM      | 1       | MID       | 19.71                  | 24.12               | 4.41        | 13            | 0.47             | 20.18         | 33             | Pass       |
| 7    | 20                 | 2560                  | 16QAM      | 1       | HIGH      | 20.66                  | 25.17               | 4.51        | 13            | 0.47             | 21.13         | 33             | Pass       |

## Appendix B: Occupied bandwidth

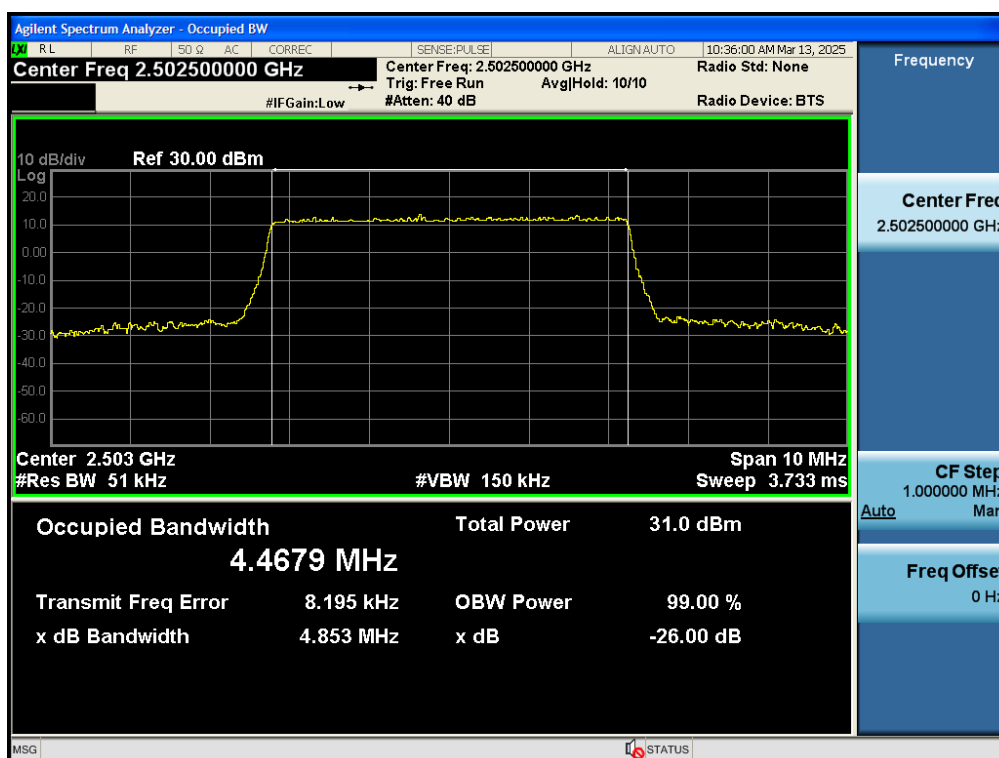
### Test Result

| Band | Bandwidth<br>(MHz) | UL Frequency<br>(MHz) | Modulation | RB Size | RB Offset | Occupied Bandwidth<br>(MHz) | Emission Bandwidth<br>(MHz) | Limit    |
|------|--------------------|-----------------------|------------|---------|-----------|-----------------------------|-----------------------------|----------|
| 7    | 5                  | 2502.5                | QPSK       | 25      | LOW       | 4.468                       | 4.853                       | No limit |
| 7    | 5                  | 2502.5                | 16QAM      | 25      | LOW       | 4.472                       | 4.899                       | No limit |
| 7    | 5                  | 2535                  | QPSK       | 25      | LOW       | 4.491                       | 4.884                       | No limit |
| 7    | 5                  | 2535                  | 16QAM      | 25      | LOW       | 4.477                       | 4.849                       | No limit |
| 7    | 5                  | 2567.5                | QPSK       | 25      | LOW       | 4.481                       | 4.896                       | No limit |
| 7    | 5                  | 2567.5                | 16QAM      | 25      | LOW       | 4.487                       | 4.899                       | No limit |
| 7    | 10                 | 2505                  | QPSK       | 50      | LOW       | 8.946                       | 9.68                        | No limit |
| 7    | 10                 | 2535                  | QPSK       | 50      | LOW       | 8.943                       | 9.597                       | No limit |
| 7    | 10                 | 2565                  | QPSK       | 50      | LOW       | 8.948                       | 9.538                       | No limit |
| 7    | 15                 | 2507.5                | QPSK       | 75      | LOW       | 13.43                       | 14.412                      | No limit |
| 7    | 15                 | 2535                  | QPSK       | 75      | LOW       | 13.423                      | 14.299                      | No limit |
| 7    | 15                 | 2562.5                | QPSK       | 75      | LOW       | 13.428                      | 14.294                      | No limit |
| 7    | 20                 | 2510                  | QPSK       | 100     | LOW       | 17.873                      | 18.812                      | No limit |
| 7    | 20                 | 2535                  | QPSK       | 100     | LOW       | 17.896                      | 18.852                      | No limit |
| 7    | 20                 | 2560                  | QPSK       | 100     | LOW       | 17.837                      | 18.902                      | No limit |

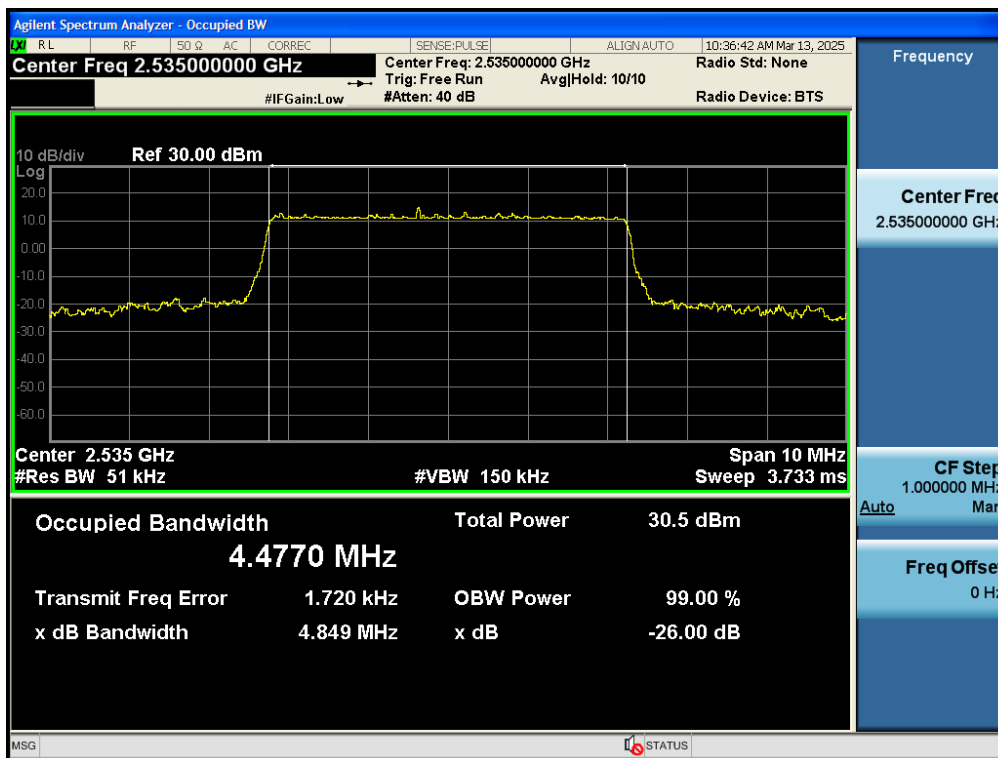
## Test Graphs



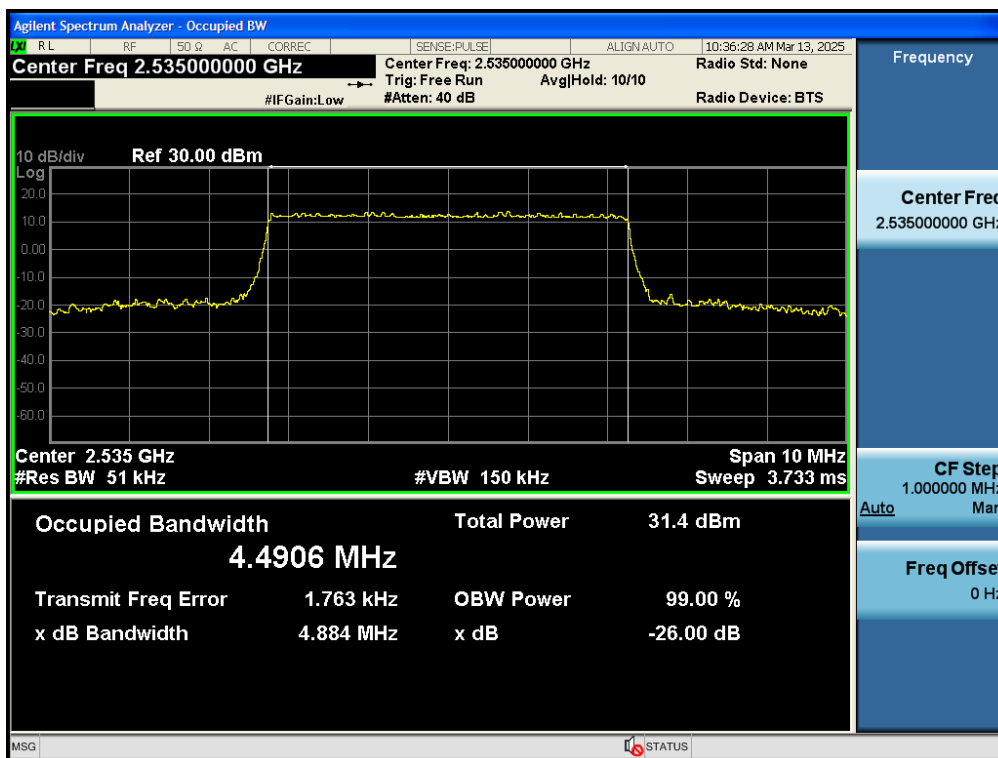
Test\_Graph\_band7\_2502.5MHz\_5M\_16QAM\_25RB#LOW\_OBW&amp;EBW



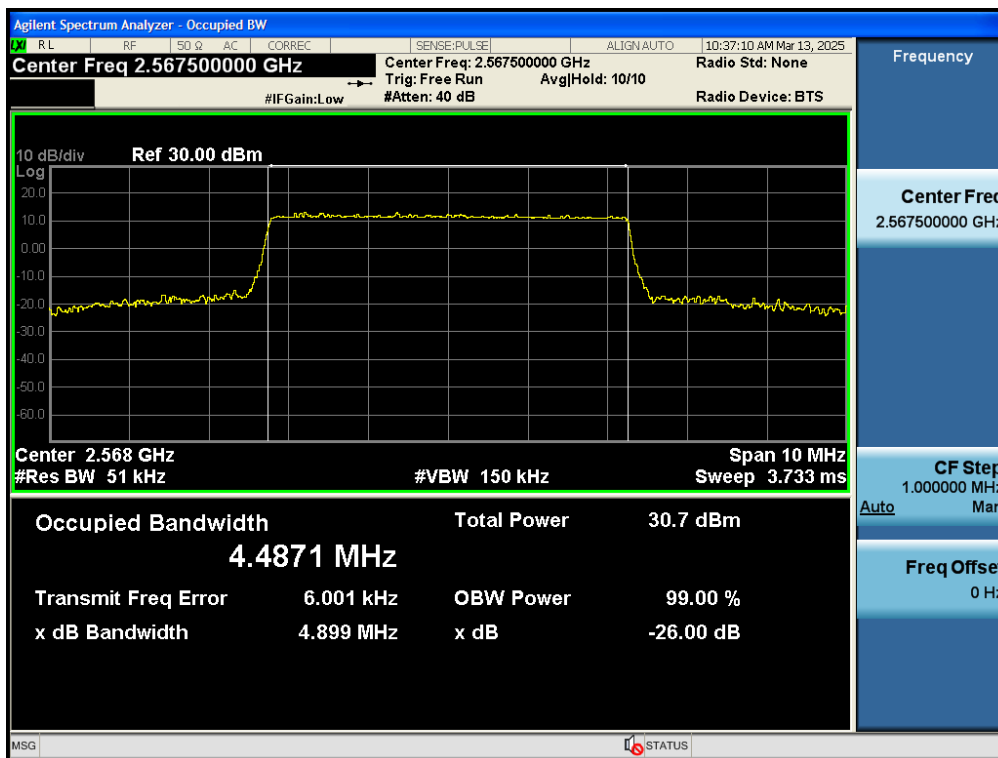
Test\_Graph\_band7\_2502.5MHz\_5M\_QPSK\_25RB#LOW\_OBW&amp;EBW



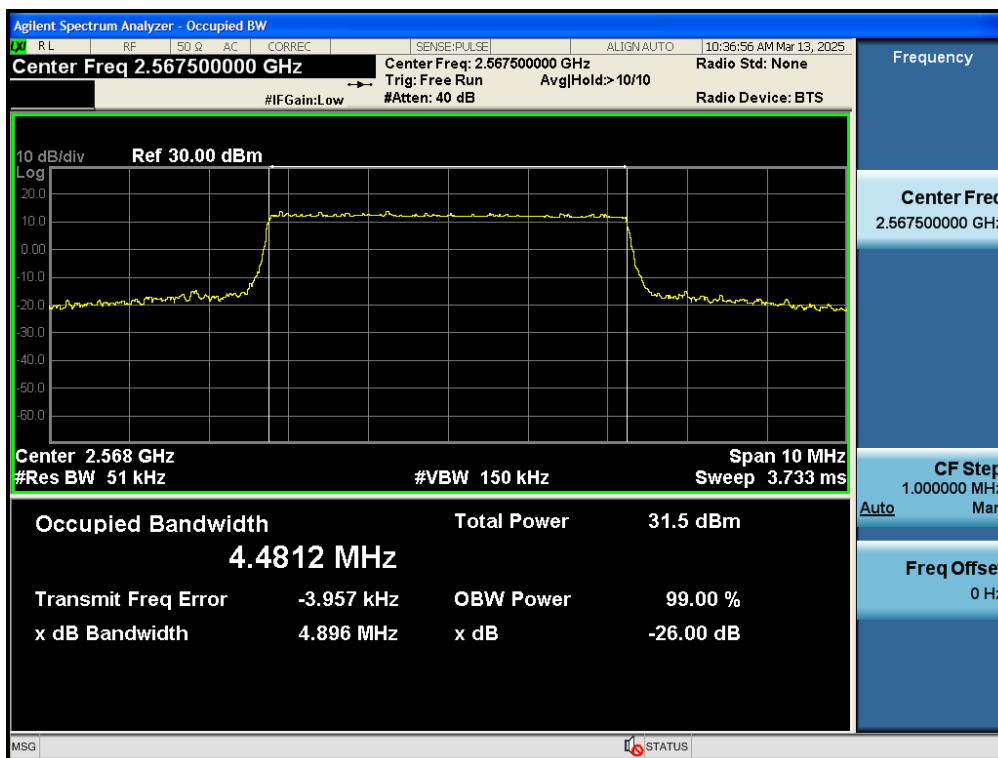
Test\_Graph\_band7\_2535MHz\_5M\_16QAM\_25RB#LOW\_OBW&amp;EBW



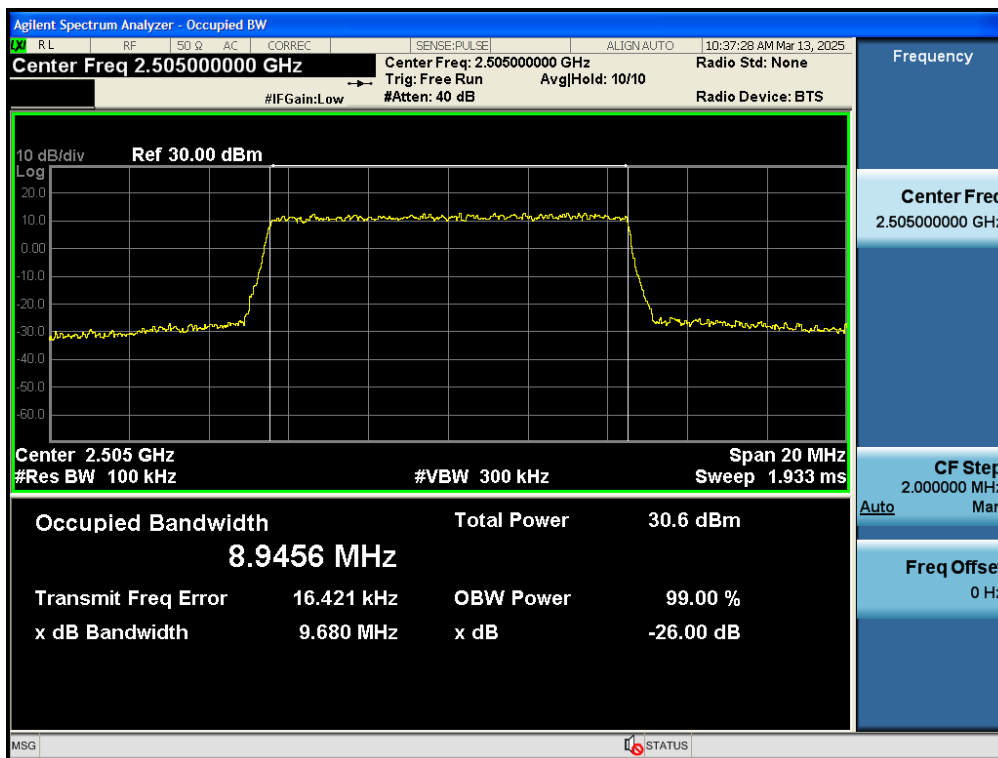
Test\_Graph\_band7\_2535MHz\_5M\_QPSK\_25RB#LOW\_OBW&amp;EBW



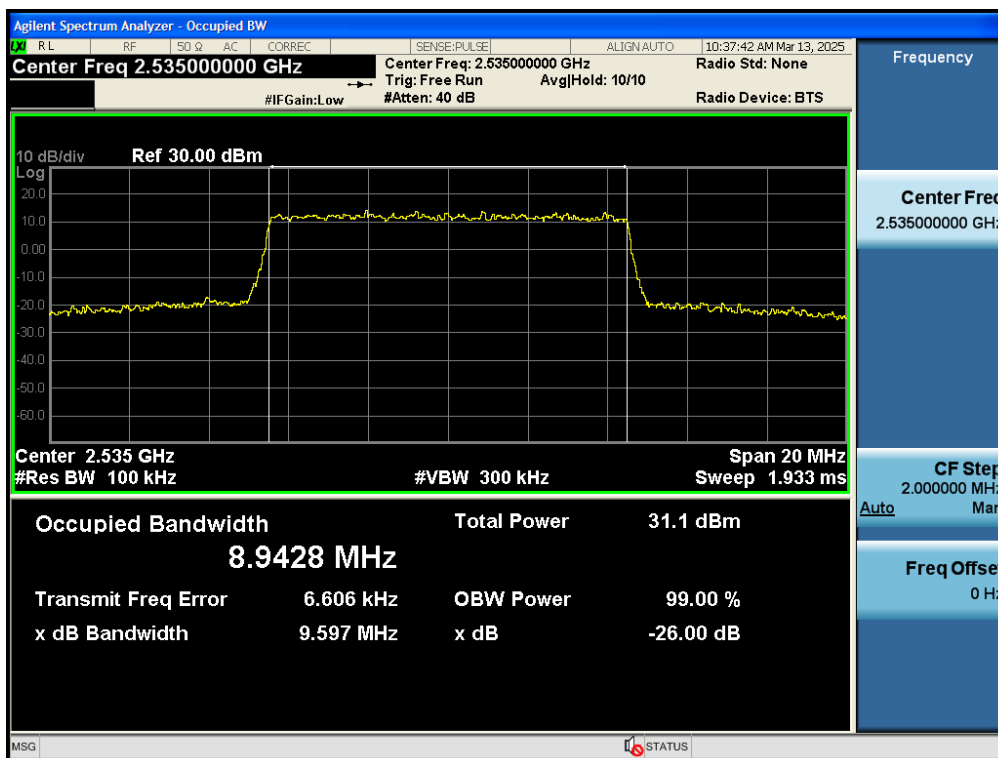
Test\_Graph\_band7\_2567.5MHz\_5M\_16QAM\_25RB#LOW\_OBW&amp;EBW



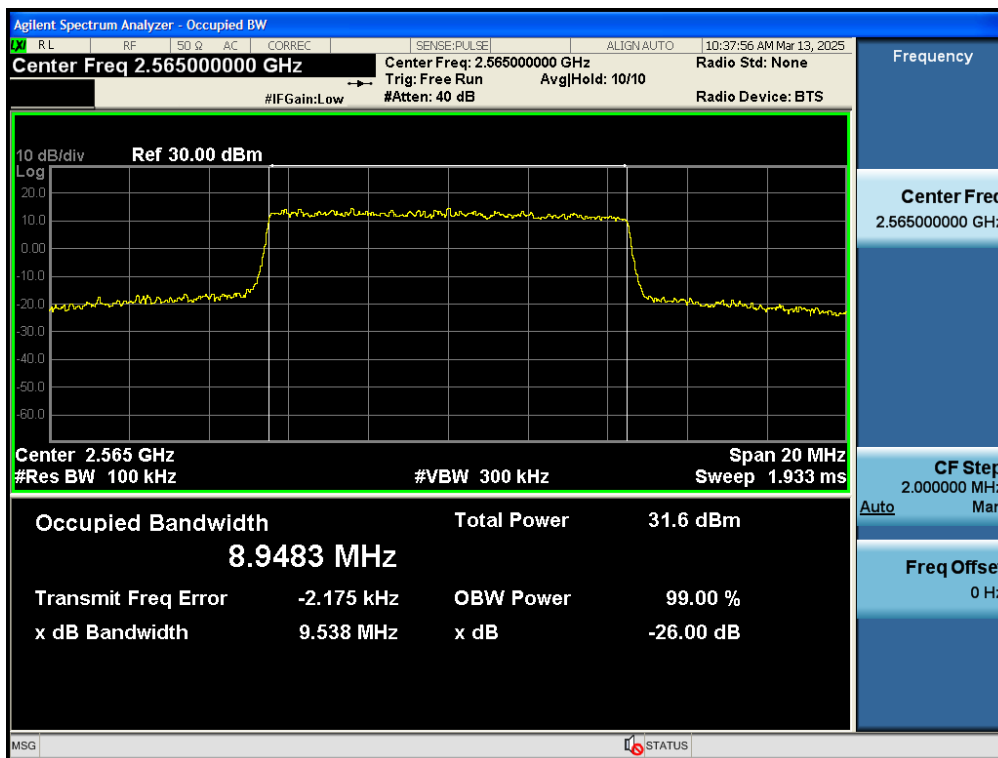
Test\_Graph\_band7\_2567.5MHz\_5M\_QPSK\_25RB#LOW\_OBW&amp;EBW



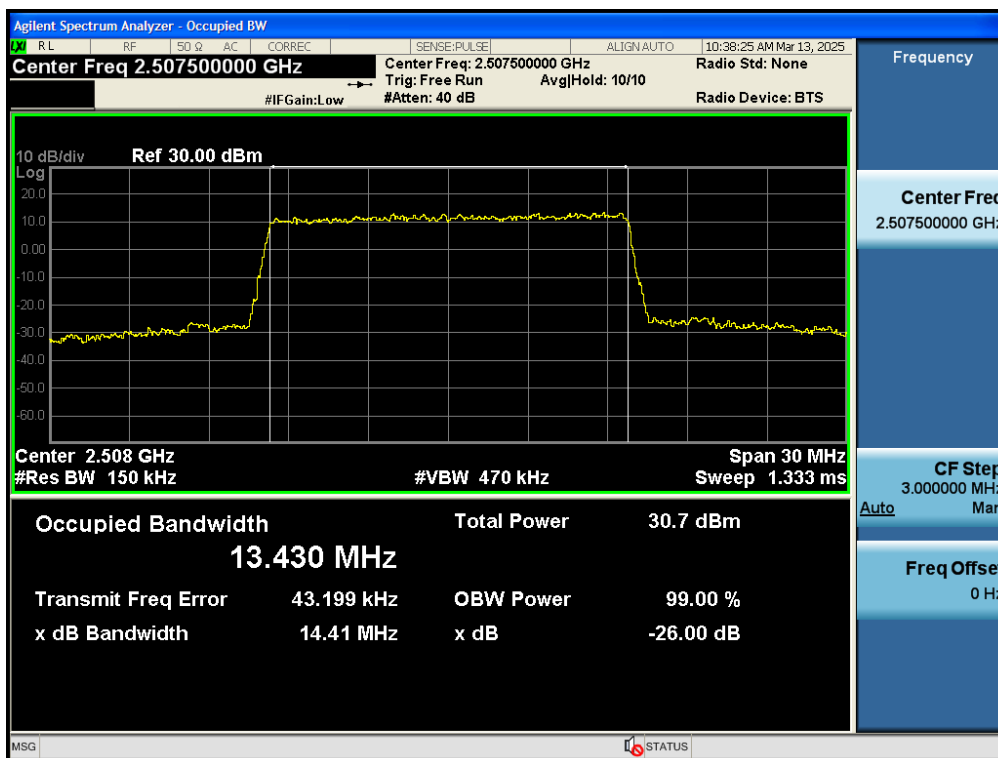
Test\_Graph\_band7\_2505MHz\_10M\_QPSK\_50RB#LOW\_OBW&amp;EBW



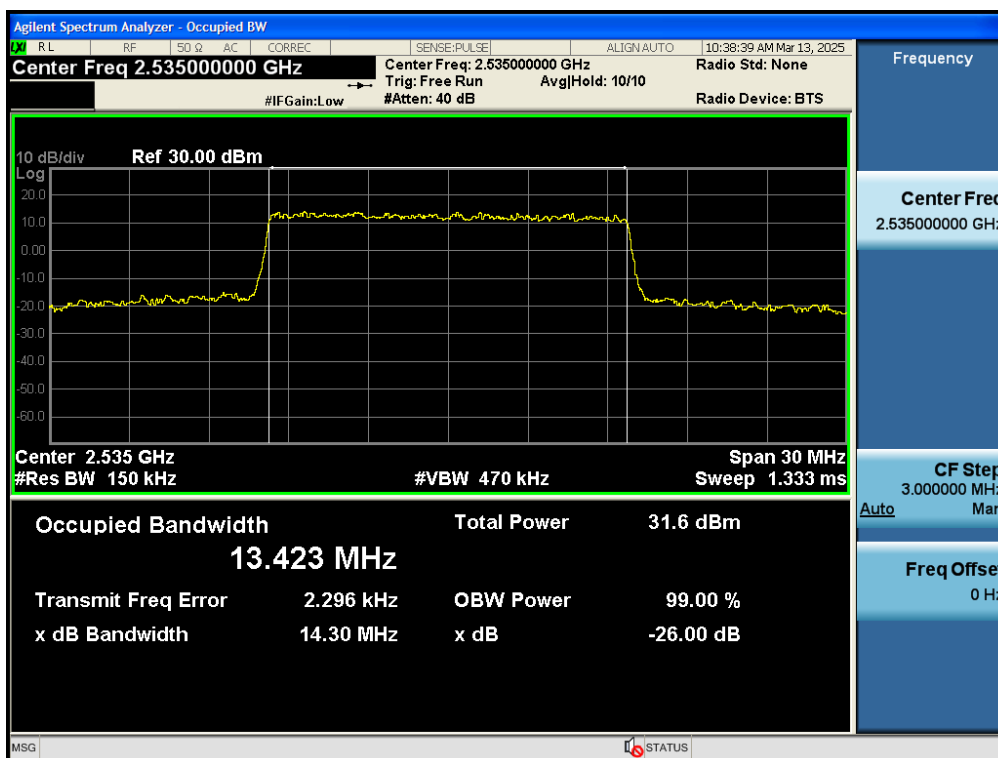
Test\_Graph\_band7\_2535MHz\_10M\_QPSK\_50RB#LOW\_OBW&amp;EBW



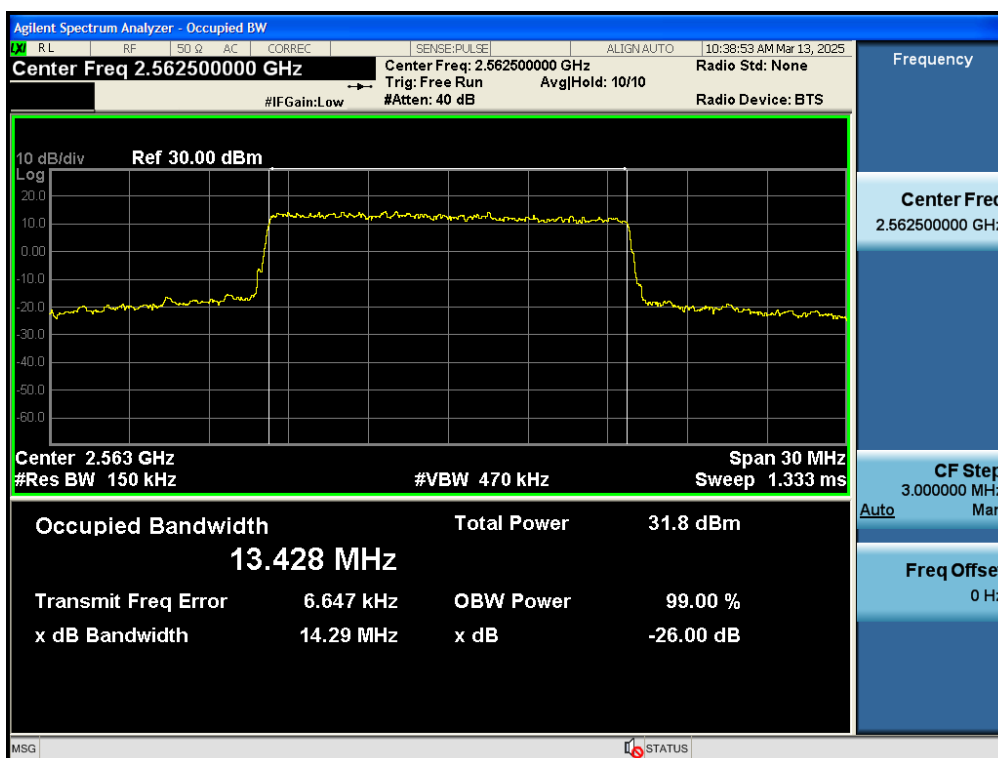
Test\_Graph\_band7\_2565MHz\_10M\_QPSK\_50RB#LOW\_OBW&amp;EBW



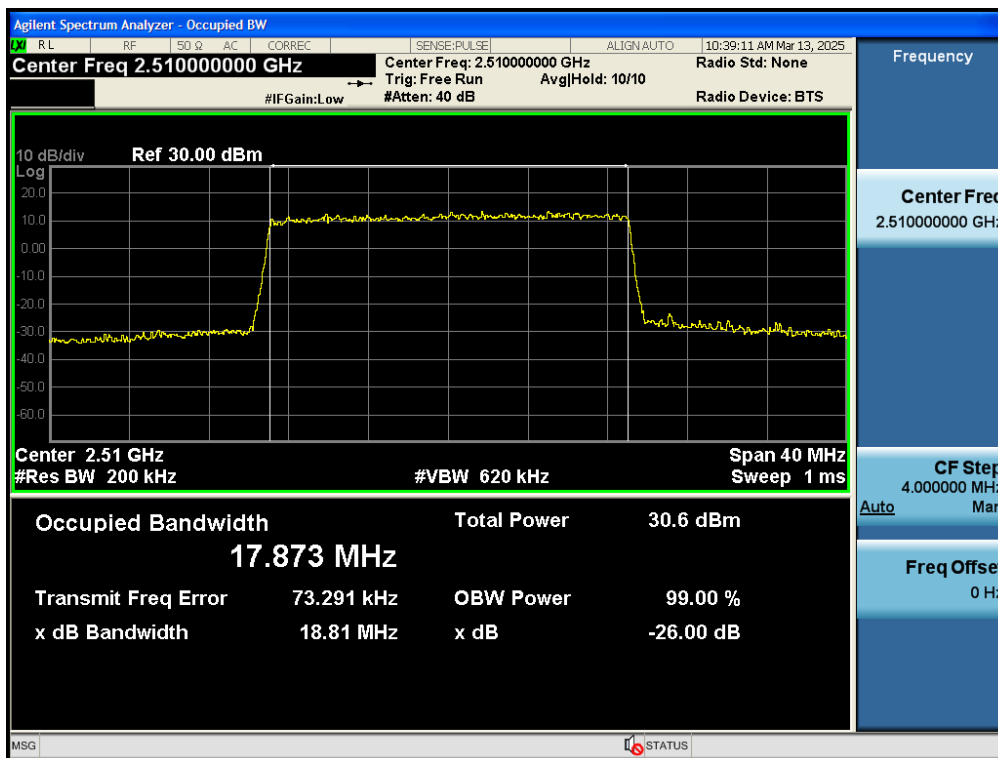
Test\_Graph\_band7\_2507.5MHz\_15M\_QPSK\_75RB#LOW\_OBW&amp;EBW



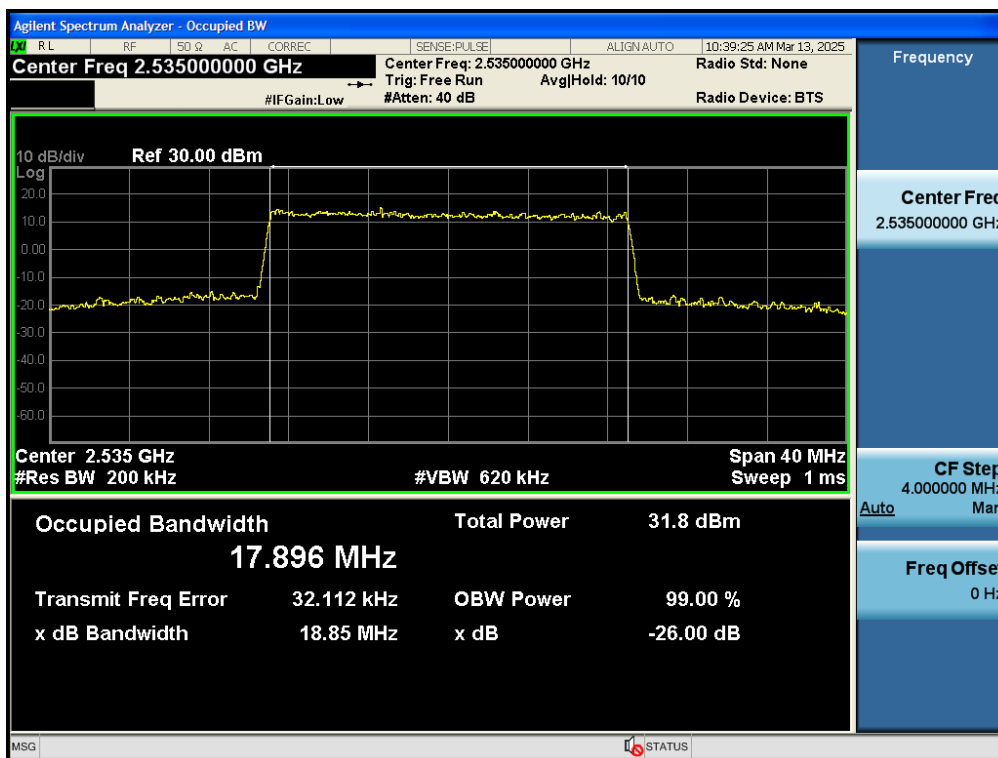
Test\_Graph\_band7\_2535MHz\_15M\_QPSK\_75RB#LOW\_OBW&amp;EBW



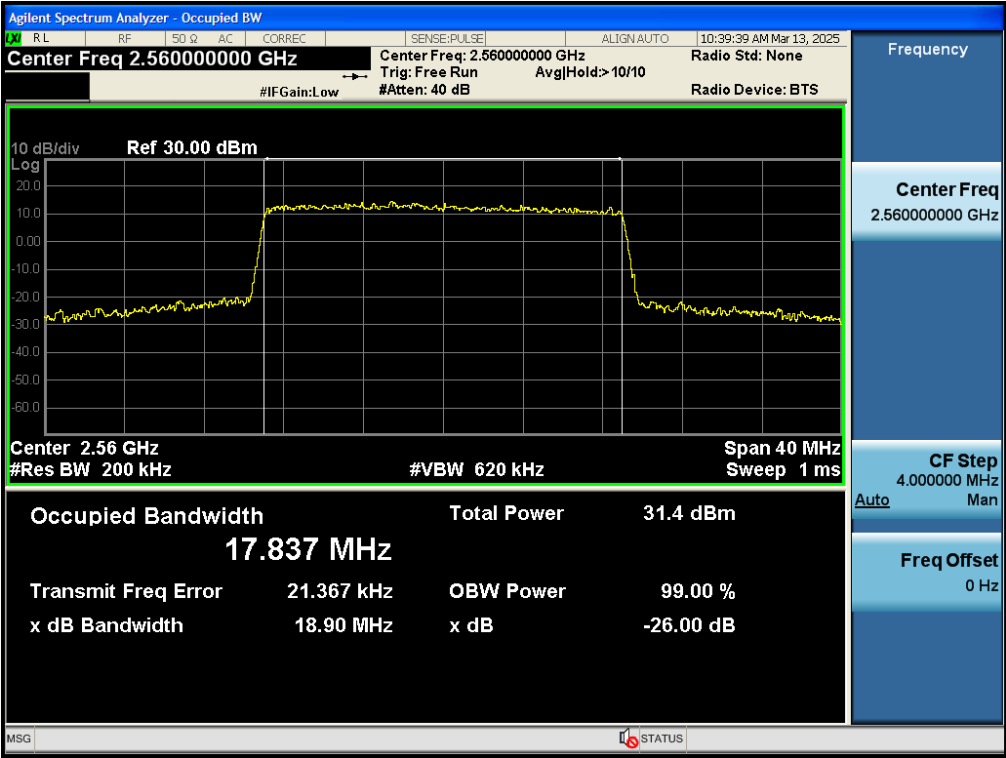
Test\_Graph\_band7\_2562.5MHz\_15M\_QPSK\_75RB#LOW\_OBW&amp;EBW



Test\_Graph\_band7\_2510MHz\_20M\_QPSK\_100RB#LOW\_OBW&amp;EBW



Test\_Graph\_band7\_2535MHz\_20M\_QPSK\_100RB#LOW\_OBW&amp;EBW



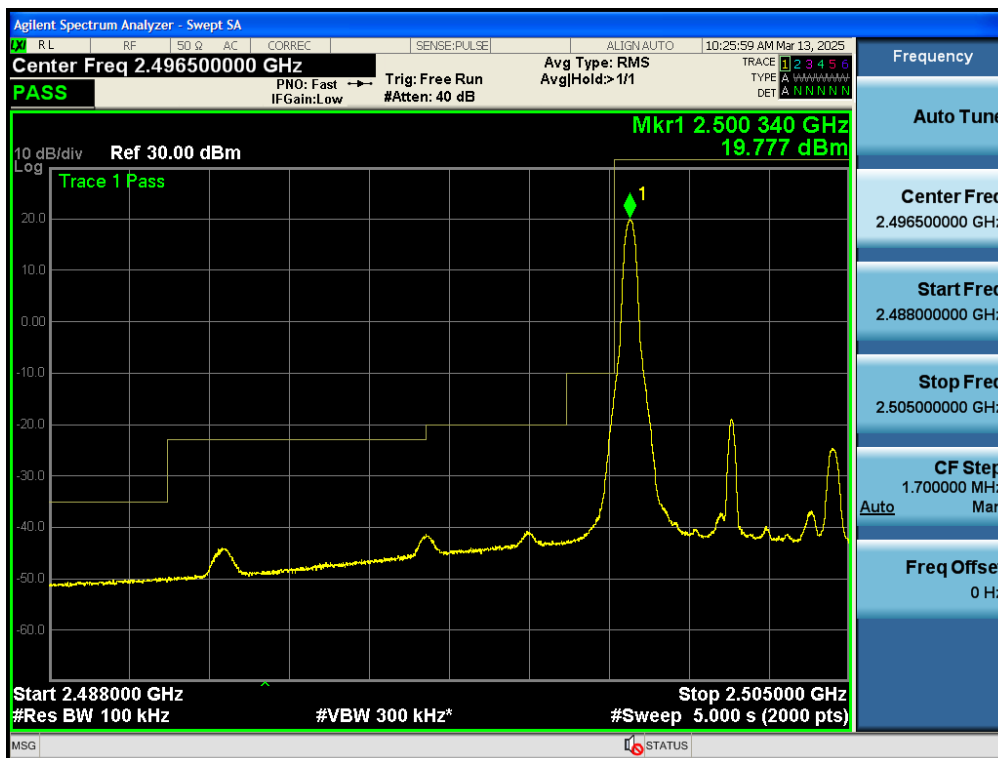
Test\_Graph\_band7\_2560MHz\_20M\_QPSK\_100RB#LOW\_OBW&EBW

## Appendix C: Band edge emissions

### Test Result

| Band | Bandwidth (MHz) | UL Frequency (MHz) | Modulation | RB Size | RB Offset | Conclusion |
|------|-----------------|--------------------|------------|---------|-----------|------------|
| 7    | 5               | 2502.5             | QPSK       | 1       | LOW       | Pass       |
| 7    | 5               | 2502.5             | QPSK       | 25      | LOW       | Pass       |
| 7    | 5               | 2502.5             | 16QAM      | 1       | LOW       | Pass       |
| 7    | 5               | 2502.5             | 16QAM      | 25      | LOW       | Pass       |
| 7    | 5               | 2567.5             | QPSK       | 1       | HIGH      | Pass       |
| 7    | 5               | 2567.5             | QPSK       | 25      | LOW       | Pass       |
| 7    | 5               | 2567.5             | 16QAM      | 1       | HIGH      | Pass       |
| 7    | 5               | 2567.5             | 16QAM      | 25      | LOW       | Pass       |
| 7    | 10              | 2505               | QPSK       | 1       | LOW       | Pass       |
| 7    | 10              | 2505               | QPSK       | 50      | LOW       | Pass       |
| 7    | 10              | 2505               | 16QAM      | 1       | LOW       | Pass       |
| 7    | 10              | 2565               | QPSK       | 1       | HIGH      | Pass       |
| 7    | 10              | 2565               | QPSK       | 50      | LOW       | Pass       |
| 7    | 10              | 2565               | 16QAM      | 1       | HIGH      | Pass       |
| 7    | 15              | 2507.5             | QPSK       | 1       | LOW       | Pass       |
| 7    | 15              | 2507.5             | QPSK       | 75      | LOW       | Pass       |
| 7    | 15              | 2507.5             | 16QAM      | 1       | LOW       | Pass       |
| 7    | 15              | 2562.5             | QPSK       | 1       | HIGH      | Pass       |
| 7    | 15              | 2562.5             | QPSK       | 75      | LOW       | Pass       |
| 7    | 15              | 2562.5             | 16QAM      | 1       | HIGH      | Pass       |
| 7    | 20              | 2510               | QPSK       | 1       | LOW       | Pass       |
| 7    | 20              | 2510               | QPSK       | 100     | LOW       | Pass       |
| 7    | 20              | 2510               | 16QAM      | 1       | LOW       | Pass       |
| 7    | 20              | 2560               | QPSK       | 1       | HIGH      | Pass       |
| 7    | 20              | 2560               | QPSK       | 100     | LOW       | Pass       |
| 7    | 20              | 2560               | 16QAM      | 1       | HIGH      | Pass       |

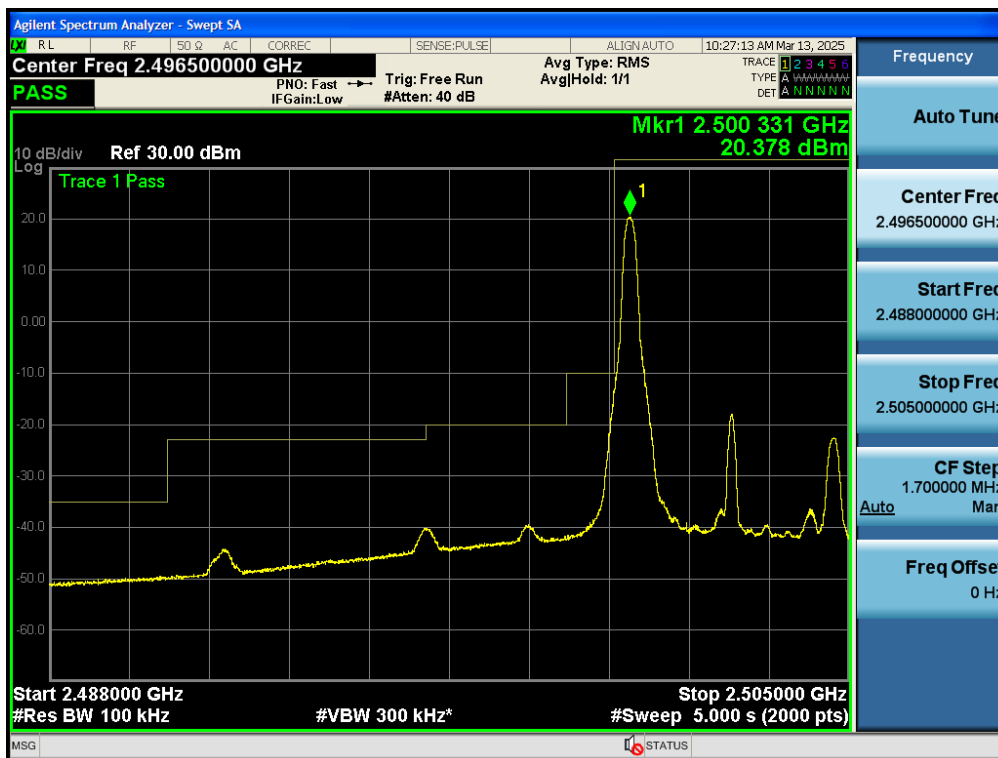
## Test Graphs



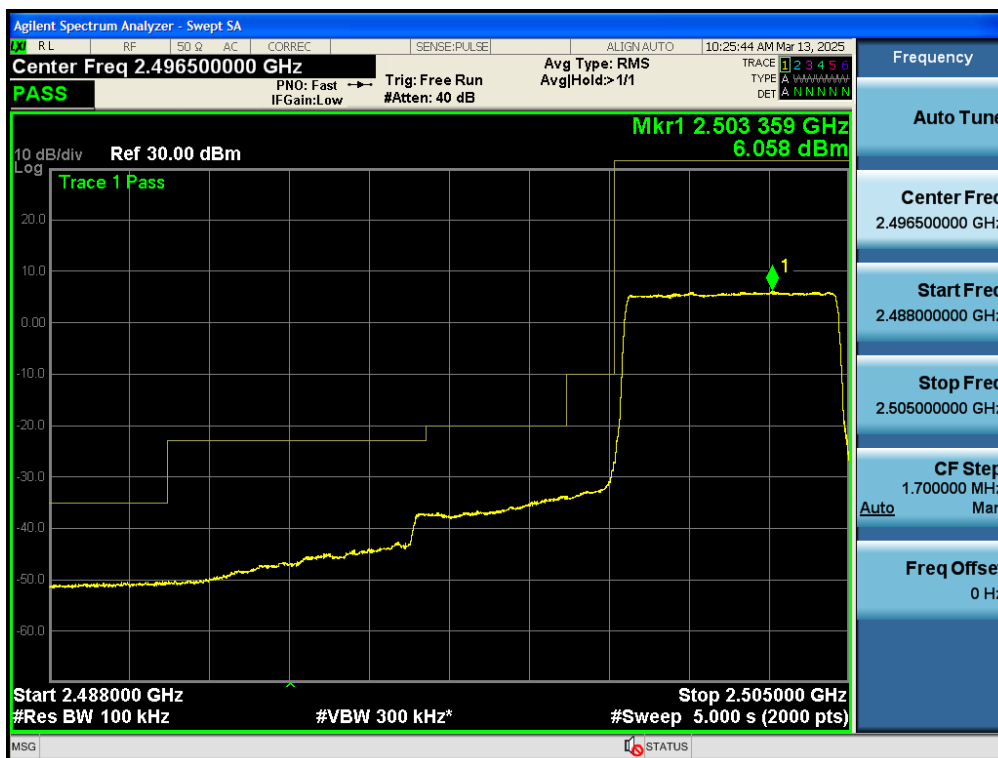
Test\_Graph\_band7\_2502.5MHz\_5M\_16QAM\_1RB#LOW\_Band edge



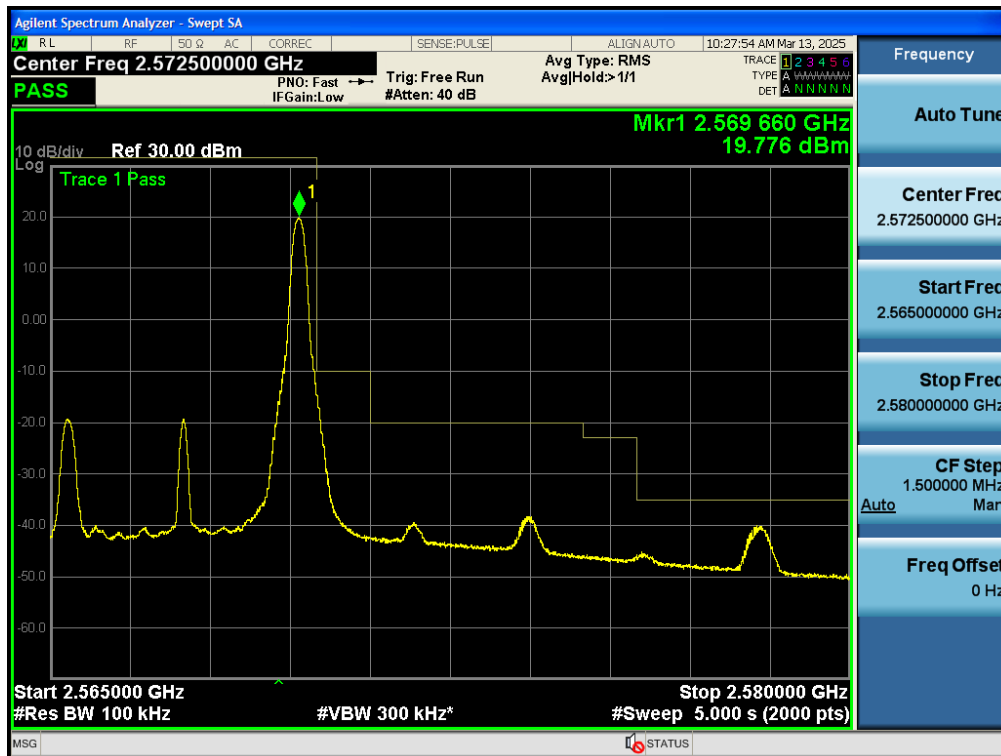
Test\_Graph\_band7\_2502.5MHz\_5M\_16QAM\_25RB#LOW\_Band edge



Test\_Graph\_band7\_2502.5MHz\_5M\_QPSK\_1RB#LOW\_Band edge



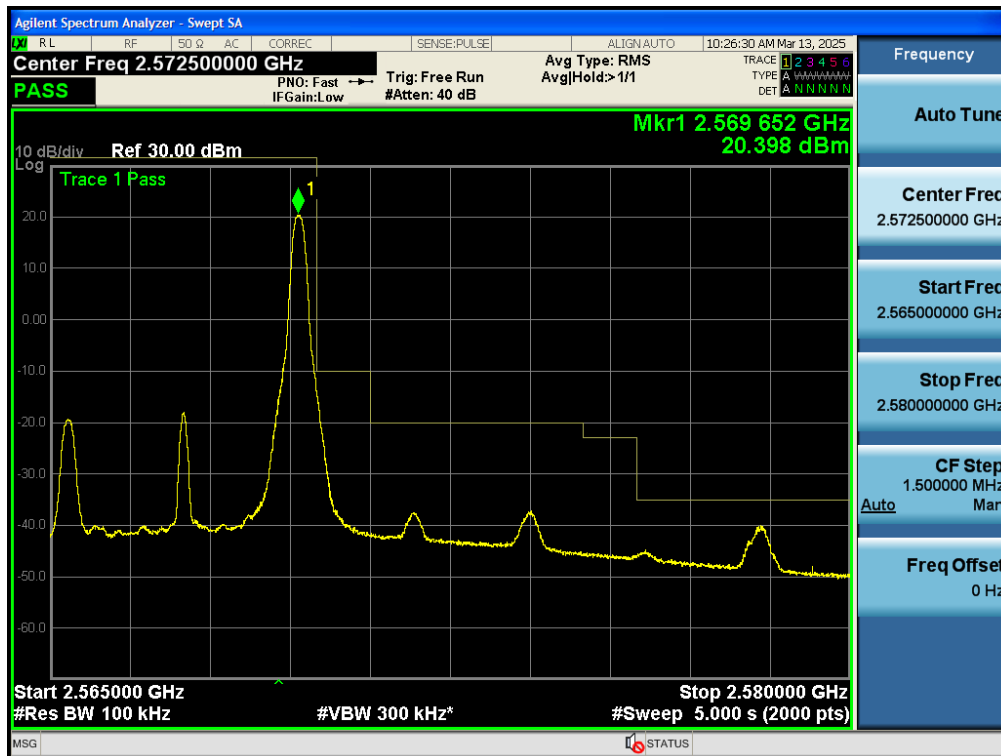
Test\_Graph\_band7\_2502.5MHz\_5M\_QPSK\_25RB#LOW\_Band edge



Test\_Graph\_band7\_2567.5MHz\_5M\_16QAM\_1RB#HIGH\_Band edge



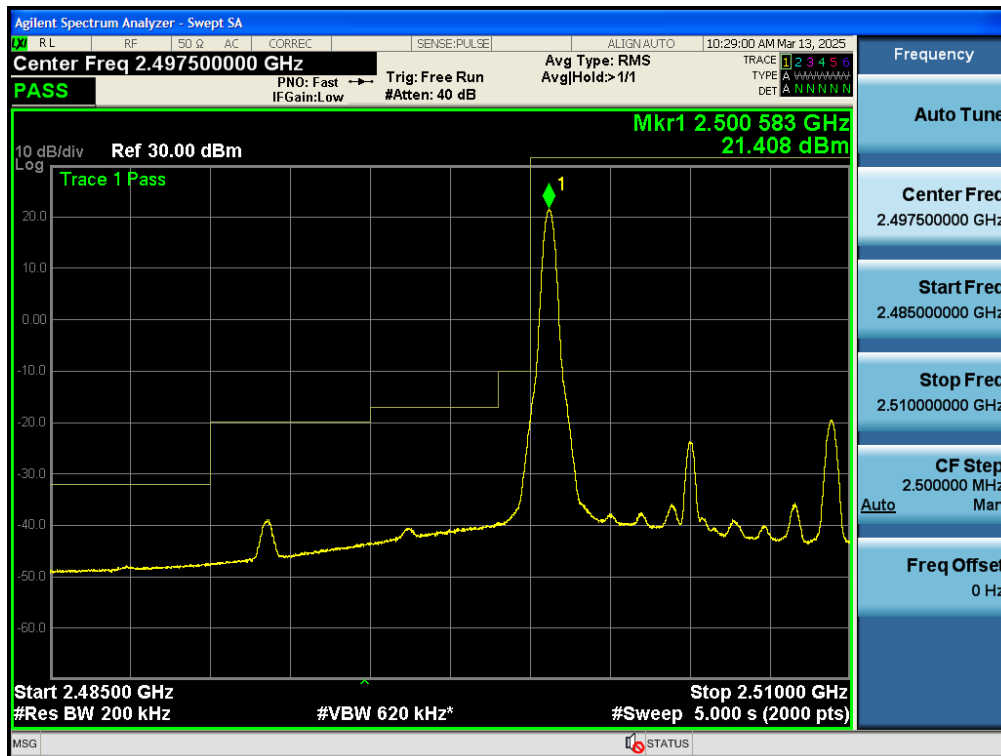
Test\_Graph\_band7\_2567.5MHz\_5M\_16QAM\_25RB#LOW\_Band edge



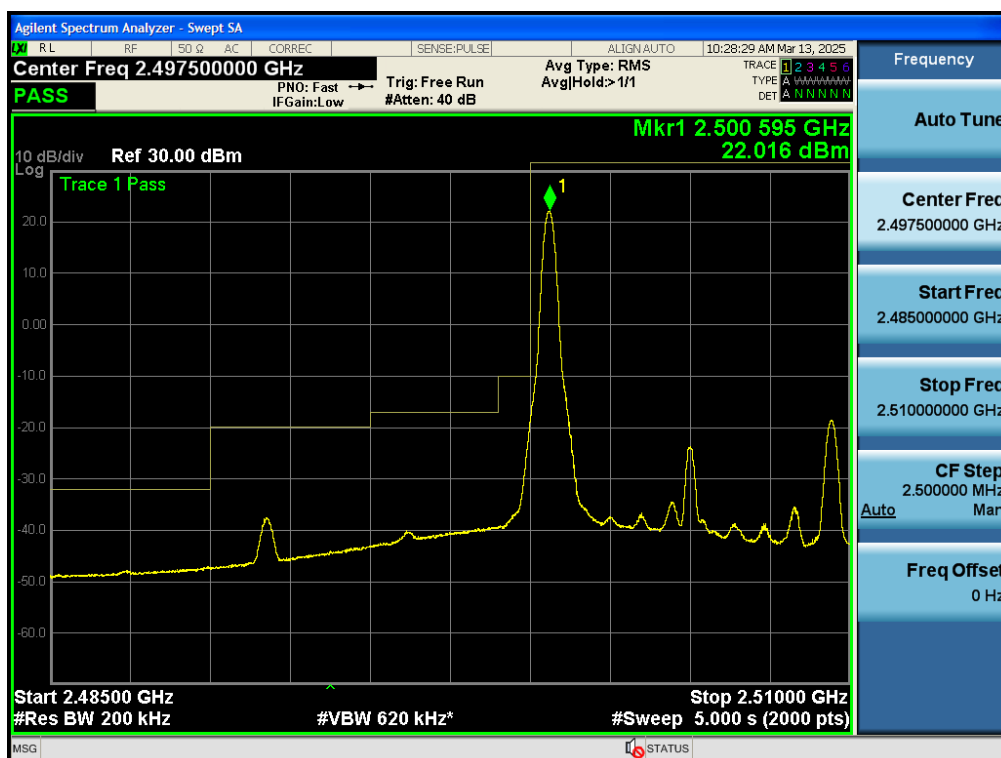
Test\_Graph\_band7\_2567.5MHz\_5M\_QPSK\_1RB#HIGH\_Band edge



Test\_Graph\_band7\_2567.5MHz\_5M\_QPSK\_25RB#LOW\_Band edge



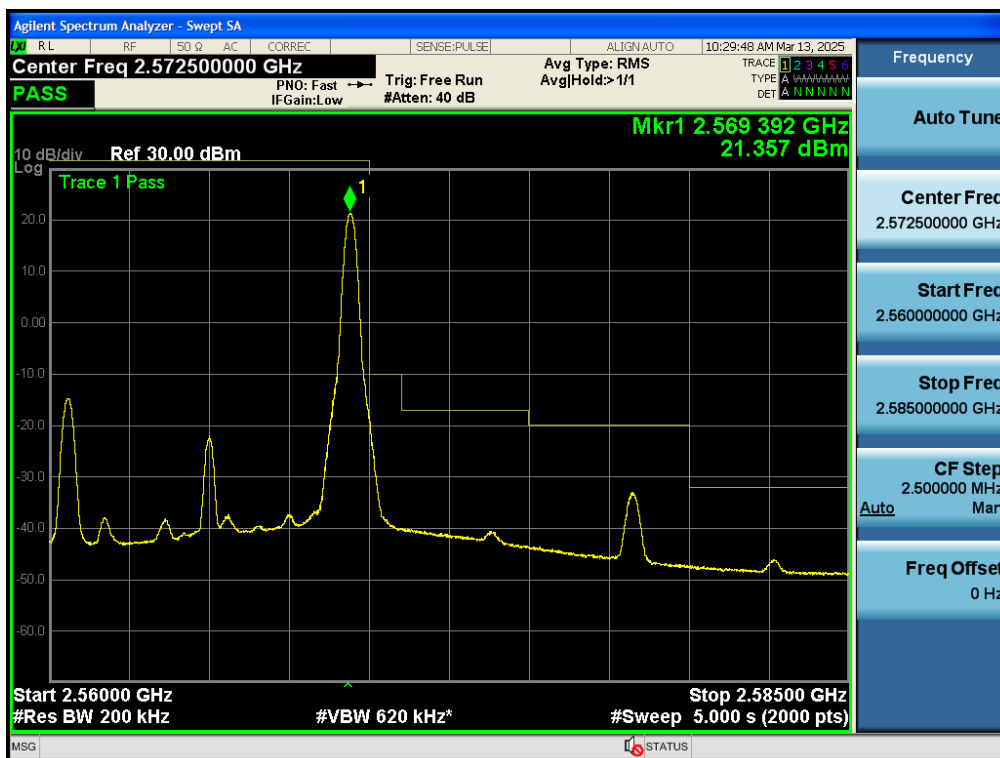
Test\_Graph\_band7\_2505MHz\_10M\_16QAM\_1RB#LOW\_Band edge



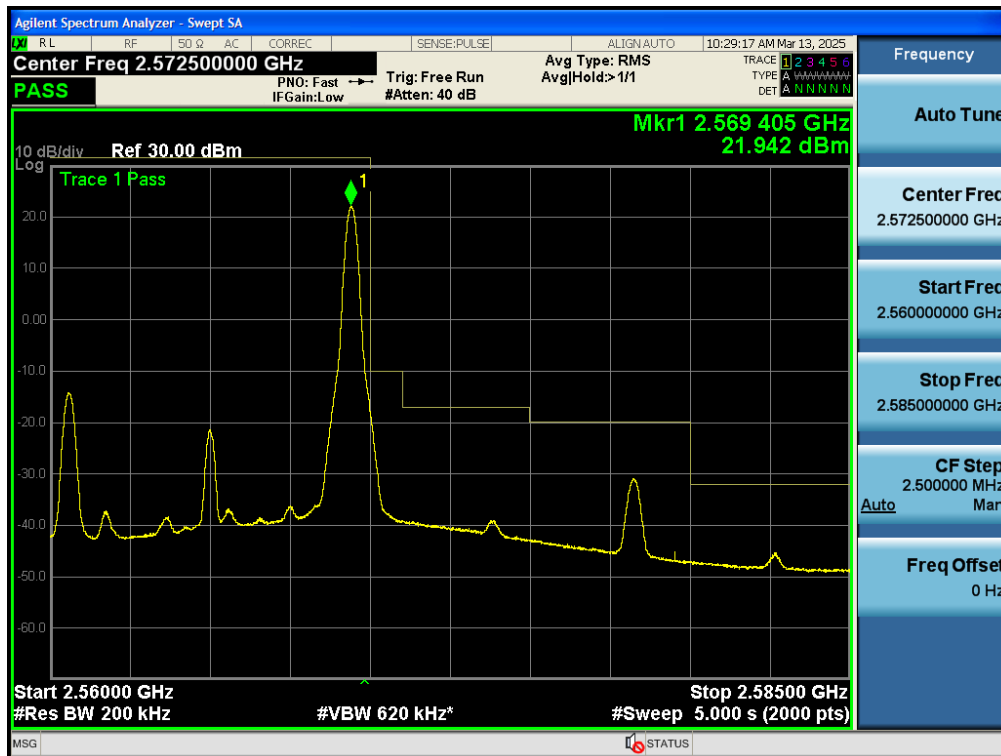
Test\_Graph\_band7\_2505MHz\_10M\_QPSK\_1RB#LOW\_Band edge



Test\_Graph\_band7\_2505MHz\_10M\_QPSK\_50RB#LOW\_Band edge



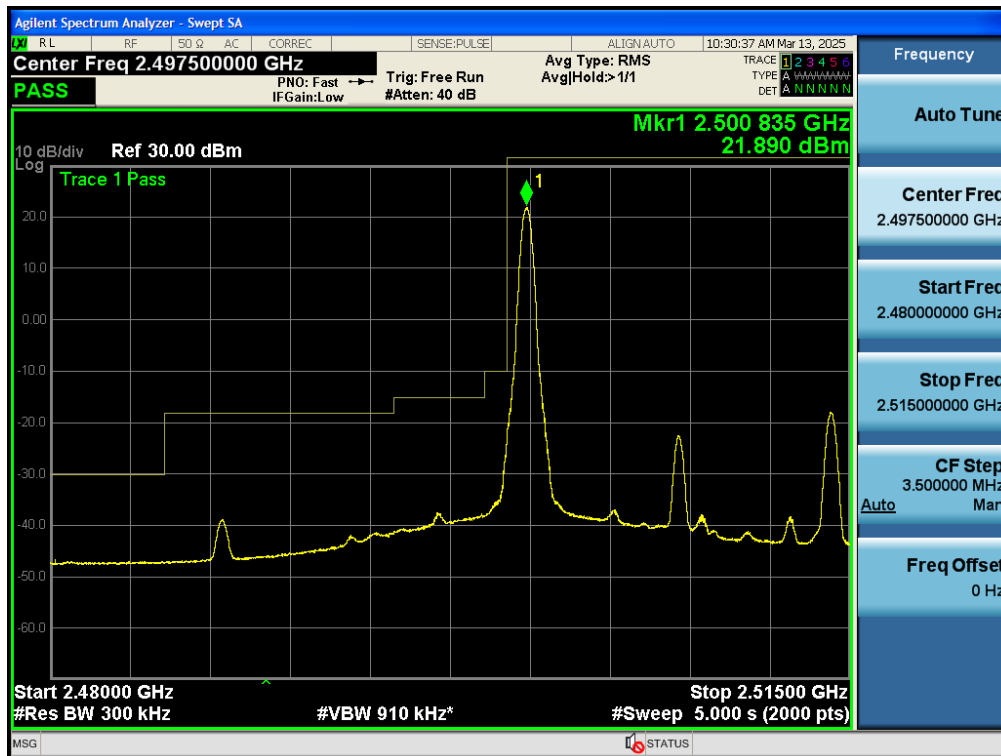
Test\_Graph\_band7\_2565MHz\_10M\_16QAM\_1RB#HIGH\_Band edge



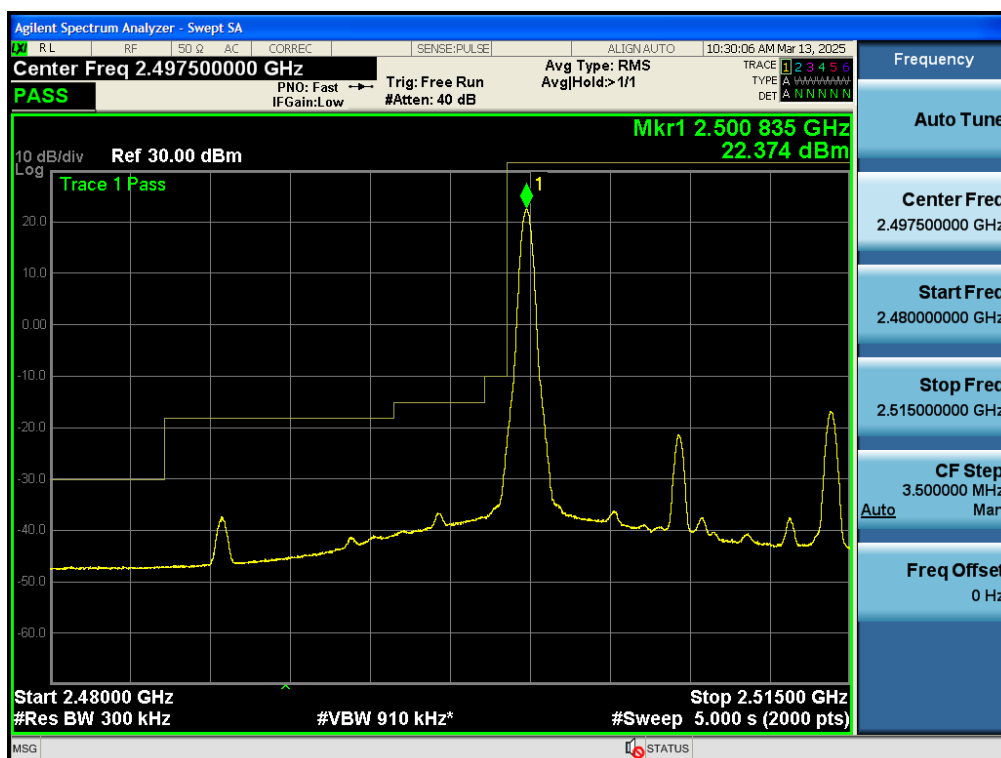
Test\_Graph\_band7\_2565MHz\_10M\_QPSK\_1RB#HIGH\_Band edge



Test\_Graph\_band7\_2565MHz\_10M\_QPSK\_50RB#LOW\_Band edge



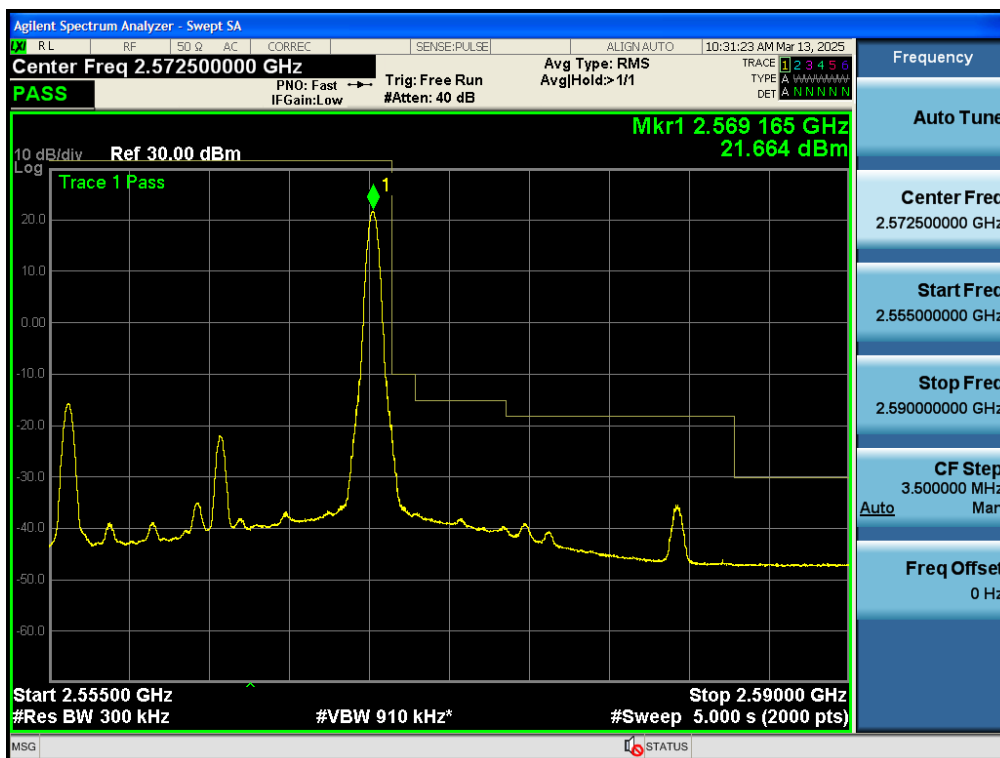
Test\_Graph\_band7\_2507.5MHz\_15M\_16QAM\_1RB#LOW\_Band edge



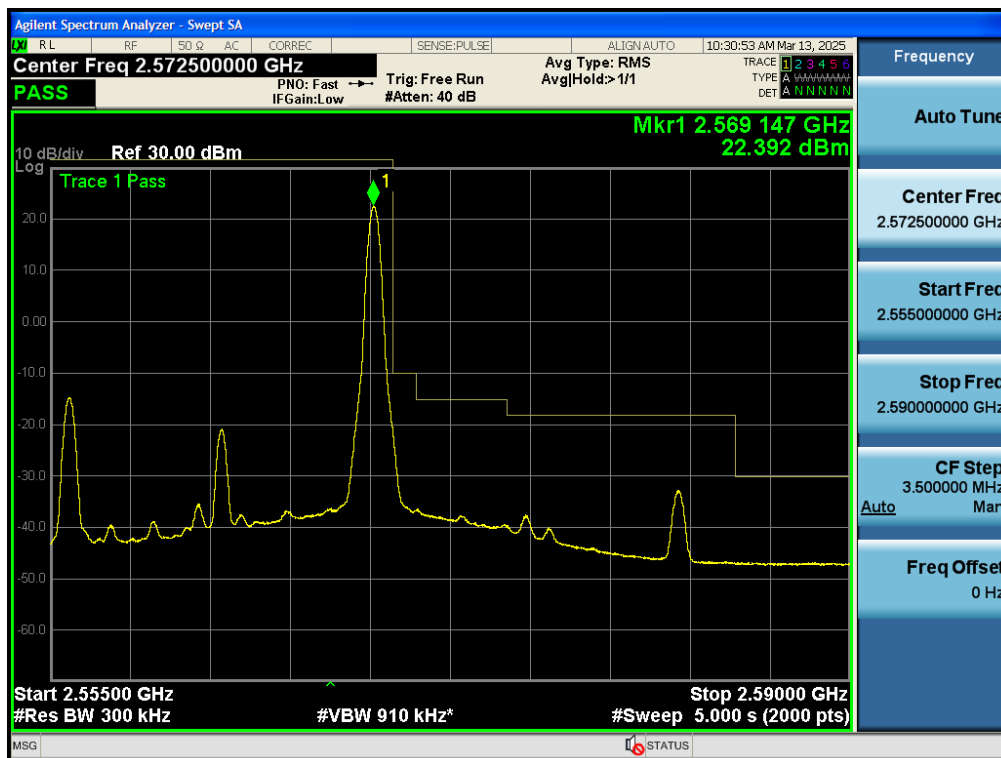
Test\_Graph\_band7\_2507.5MHz\_15M\_QPSK\_1RB#LOW\_Band edge



Test\_Graph\_band7\_2507.5MHz\_15M\_QPSK\_75RB#LOW\_Band edge



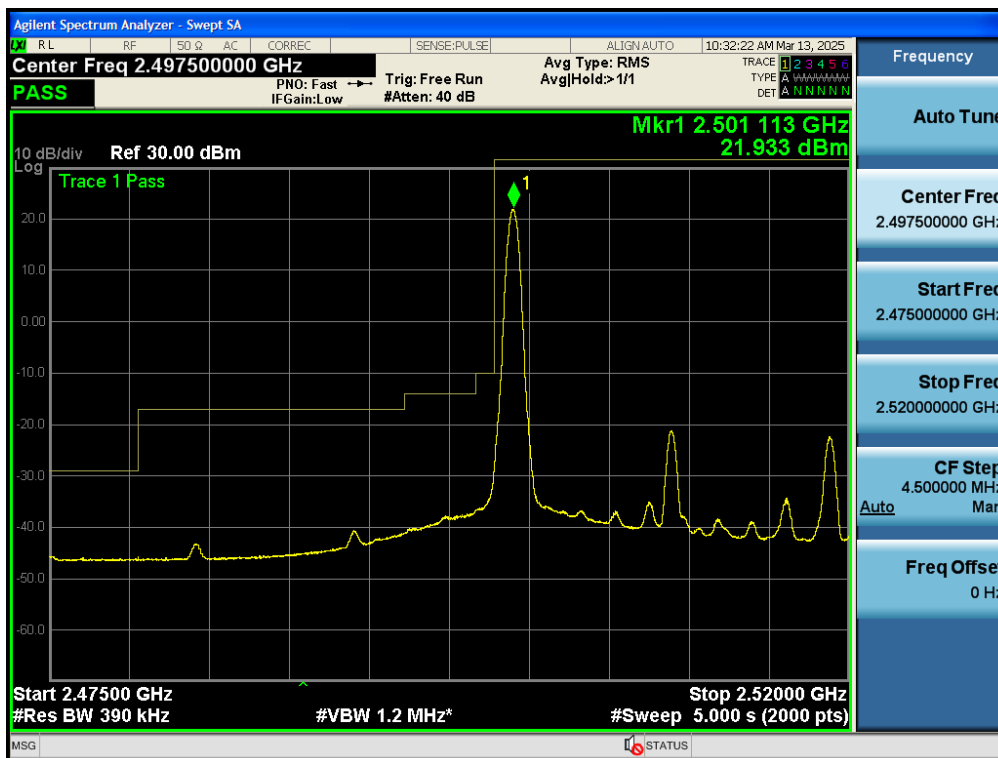
Test\_Graph\_band7\_2562.5MHz\_15M\_16QAM\_1RB#HIGH\_Band edge



Test\_Graph\_band7\_2562.5MHz\_15M\_QPSK\_1RB#HIGH\_Band edge



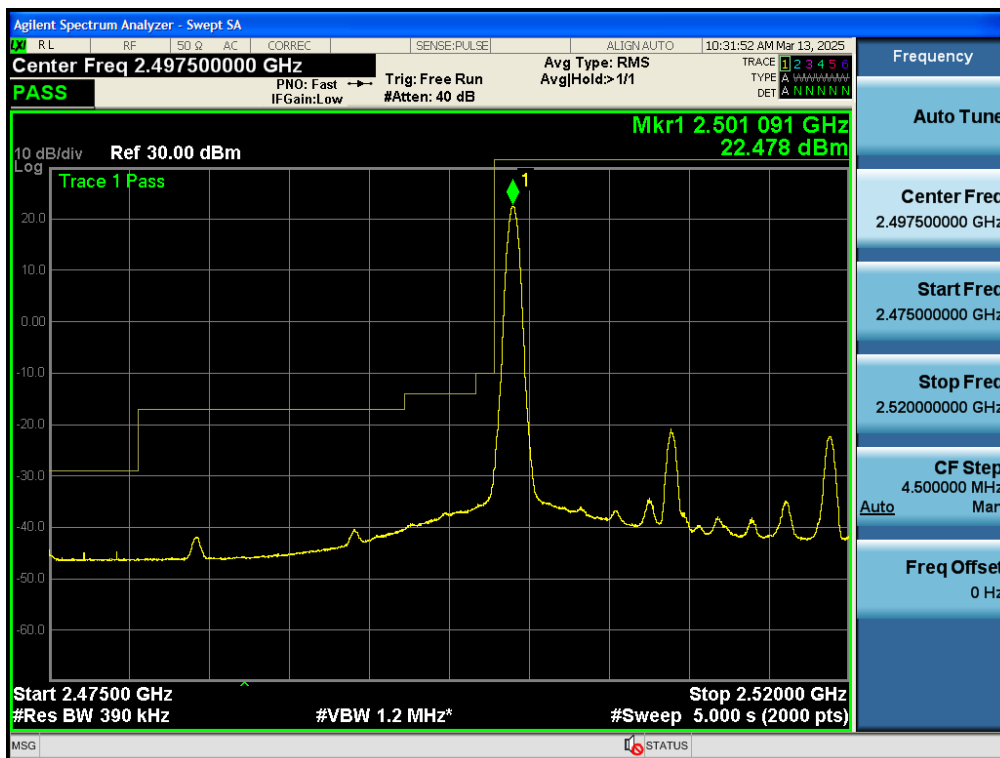
Test\_Graph\_band7\_2562.5MHz\_15M\_QPSK\_75RB#LOW\_Band edge



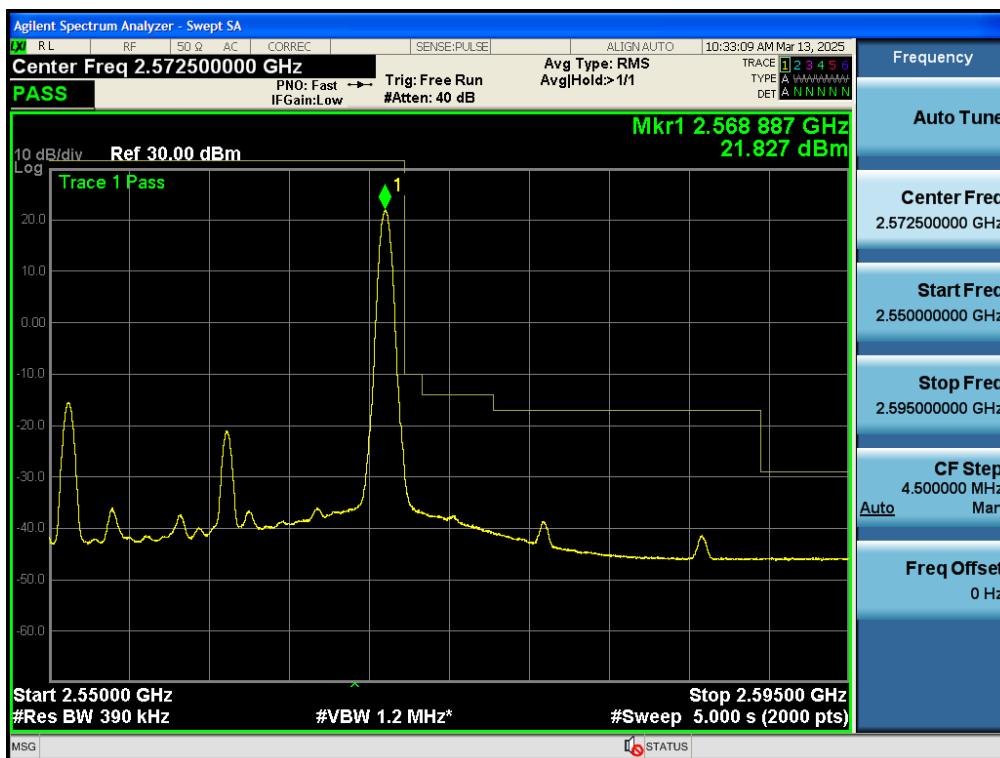
Test\_Graph\_band7\_2510MHz\_20M\_16QAM\_1RB#LOW\_Band edge



Test\_Graph\_band7\_2510MHz\_20M\_QPSK\_100RB#LOW\_Band edge



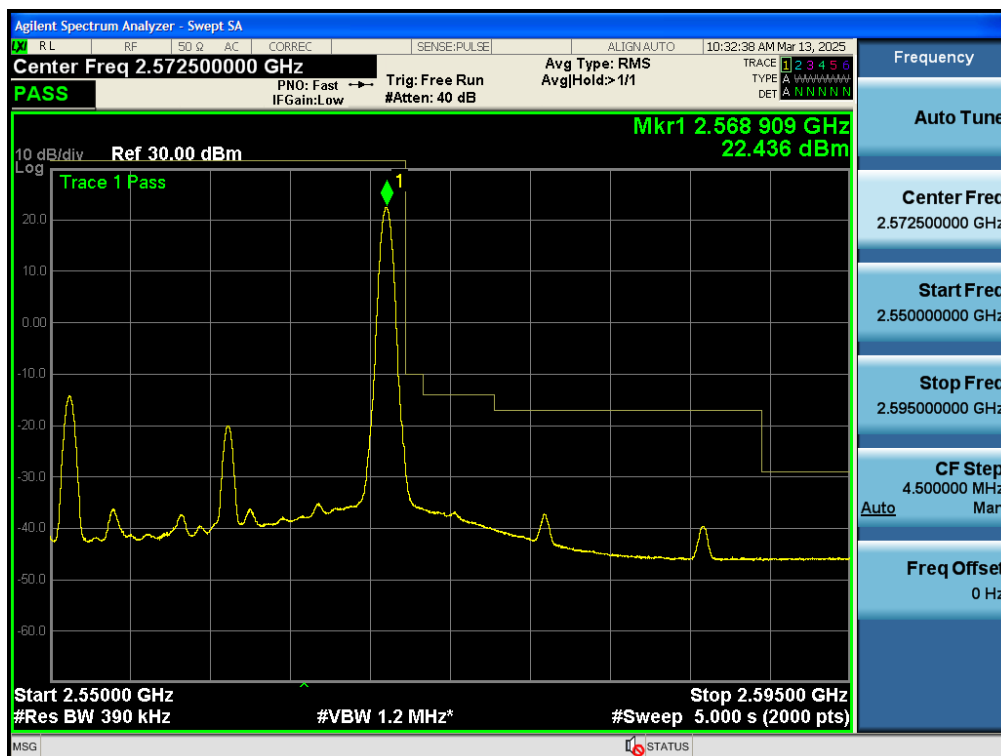
Test\_Graph\_band7\_2510MHz\_20M\_QPSK\_1RB#LOW\_Band edge



Test\_Graph\_band7\_2560MHz\_20M\_16QAM\_1RB#HIGH\_Band edge



Test\_Graph\_band7\_2560MHz\_20M\_QPSK\_100RB#LOW\_Band edge



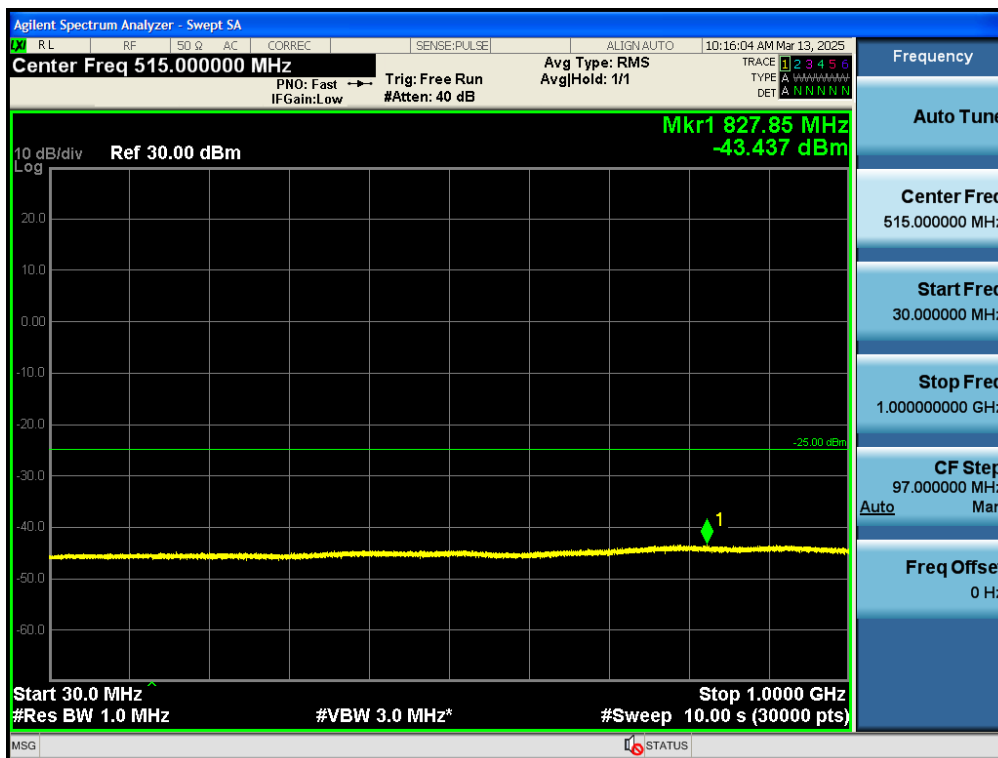
Test\_Graph\_band7\_2560MHz\_20M\_QPSK\_1RB#HIGH\_Band edge

## Appendix D: Unwanted spurious emissions at antenna terminals

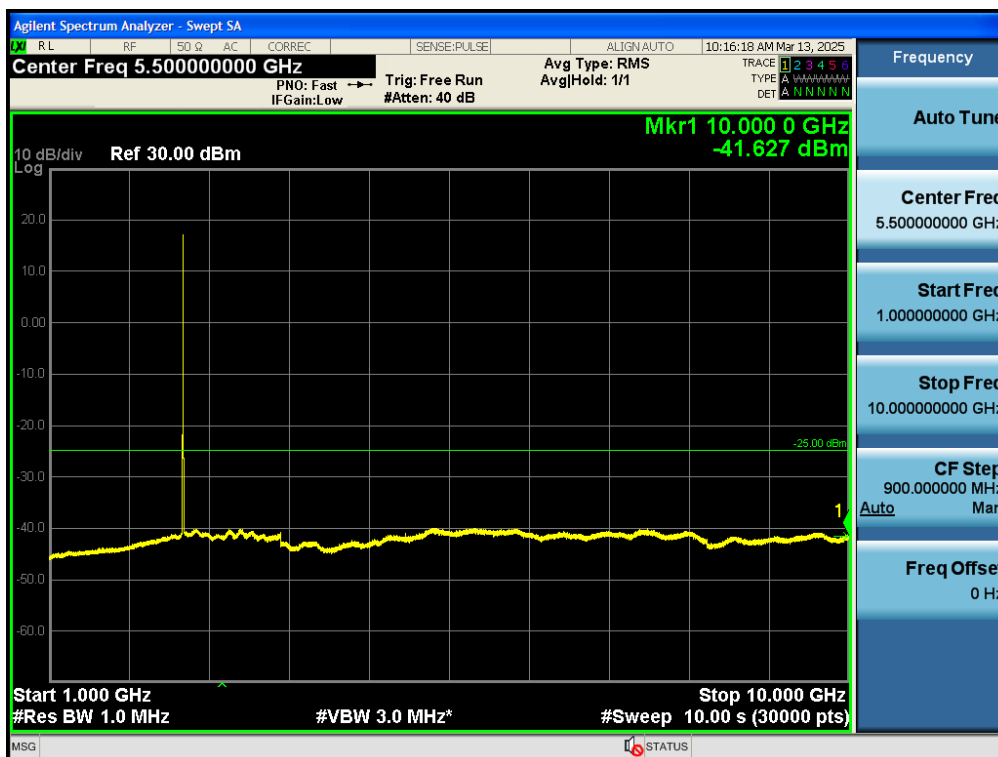
### Test Result

| Band | Bandwidth<br>(MHz) | UL Frequency<br>(MHz) | Modulation | RB Size | RB Offset | Conclusion |
|------|--------------------|-----------------------|------------|---------|-----------|------------|
| 7    | 5                  | 2502.5                | QPSK       | 25      | LOW       | Pass       |
| 7    | 5                  | 2535                  | QPSK       | 25      | LOW       | Pass       |
| 7    | 5                  | 2567.5                | QPSK       | 25      | LOW       | Pass       |
| 7    | 10                 | 2505                  | QPSK       | 50      | LOW       | Pass       |
| 7    | 10                 | 2535                  | QPSK       | 50      | LOW       | Pass       |
| 7    | 10                 | 2565                  | QPSK       | 50      | LOW       | Pass       |
| 7    | 15                 | 2507.5                | QPSK       | 75      | LOW       | Pass       |
| 7    | 15                 | 2535                  | QPSK       | 75      | LOW       | Pass       |
| 7    | 15                 | 2562.5                | QPSK       | 75      | LOW       | Pass       |
| 7    | 20                 | 2510                  | QPSK       | 100     | LOW       | Pass       |
| 7    | 20                 | 2535                  | QPSK       | 100     | LOW       | Pass       |
| 7    | 20                 | 2560                  | QPSK       | 100     | LOW       | Pass       |

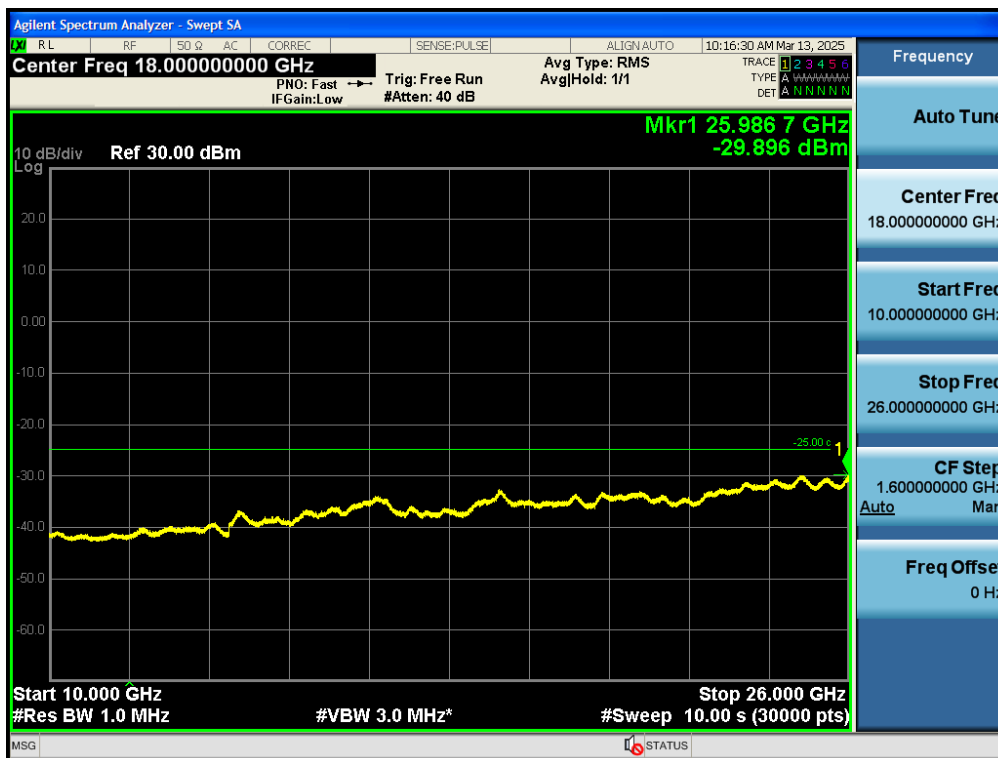
## Test Graphs



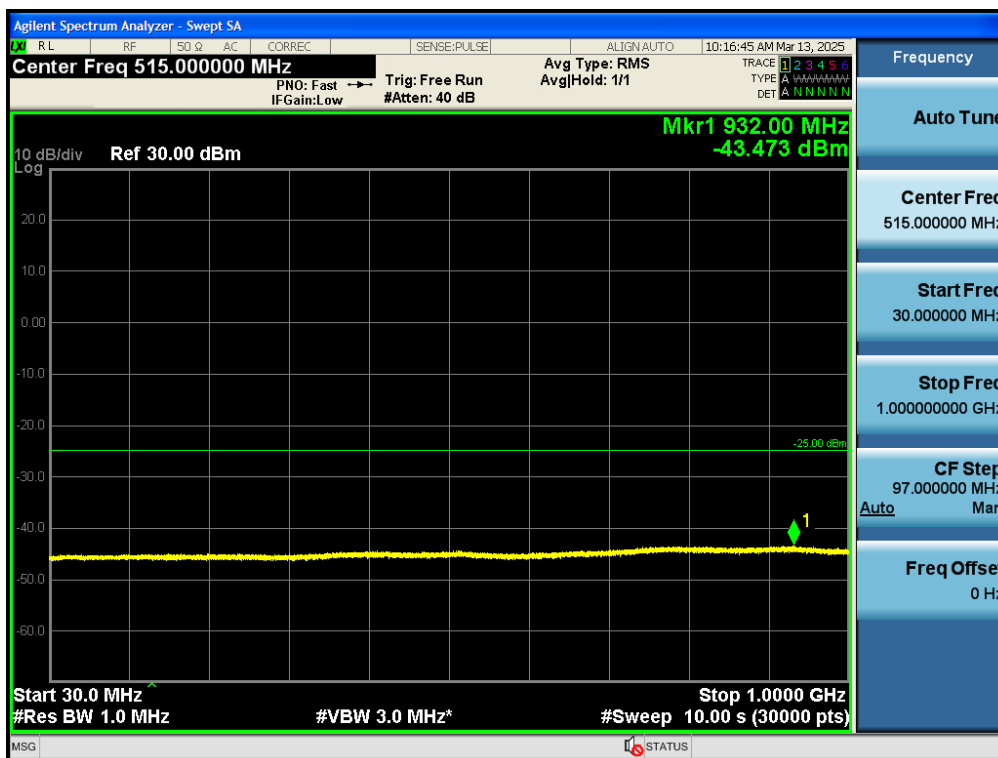
Test\_Graph\_band7\_2502.5MHz\_5M\_QPSK\_25RB#LOW\_30M\_1G\_TX



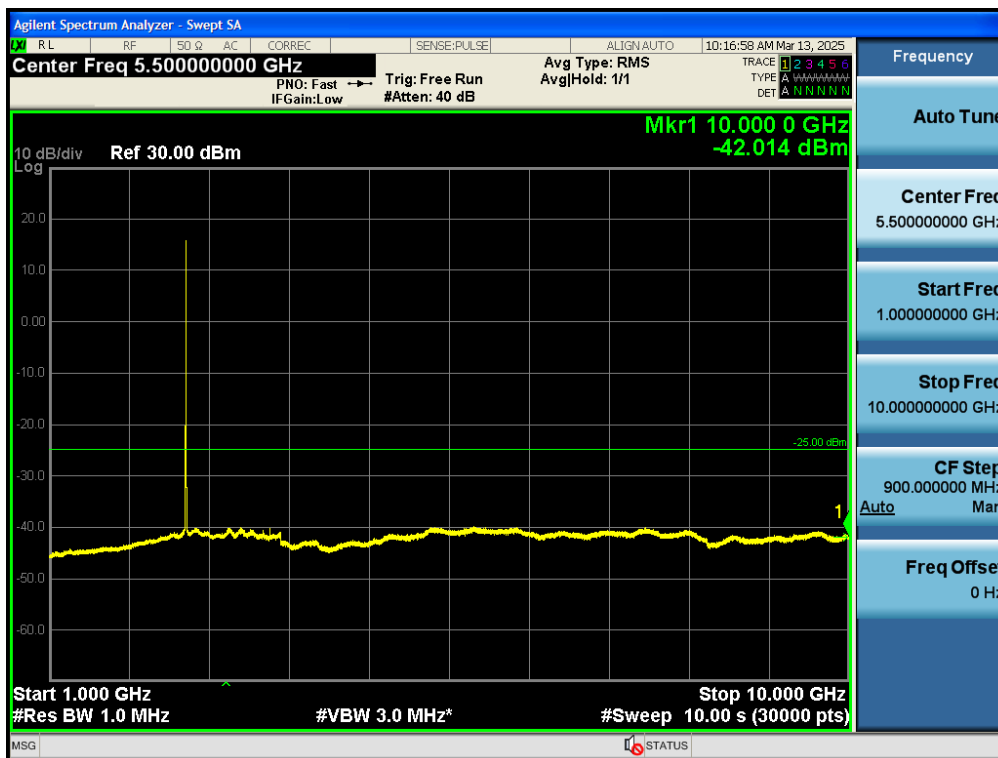
Test\_Graph\_band7\_2502.5MHz\_5M\_QPSK\_25RB#LOW\_1G\_10G\_TX



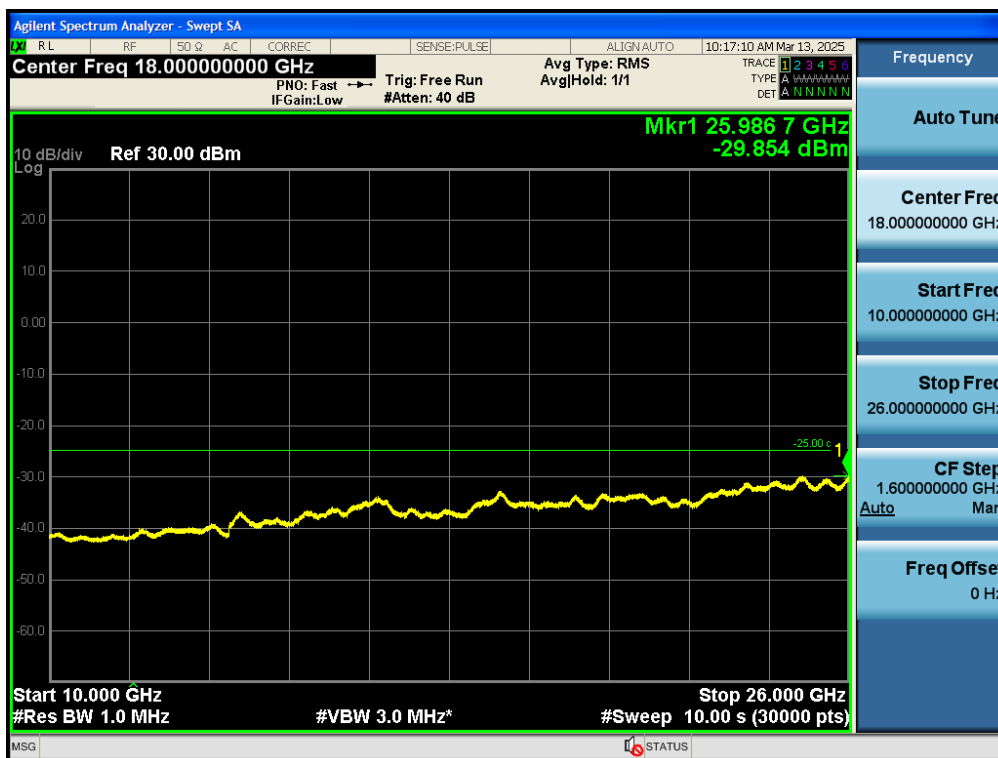
Test\_Graph\_band7\_2502.5MHz\_5M\_QPSK\_25RB#LOW\_10G\_26.0G\_TX



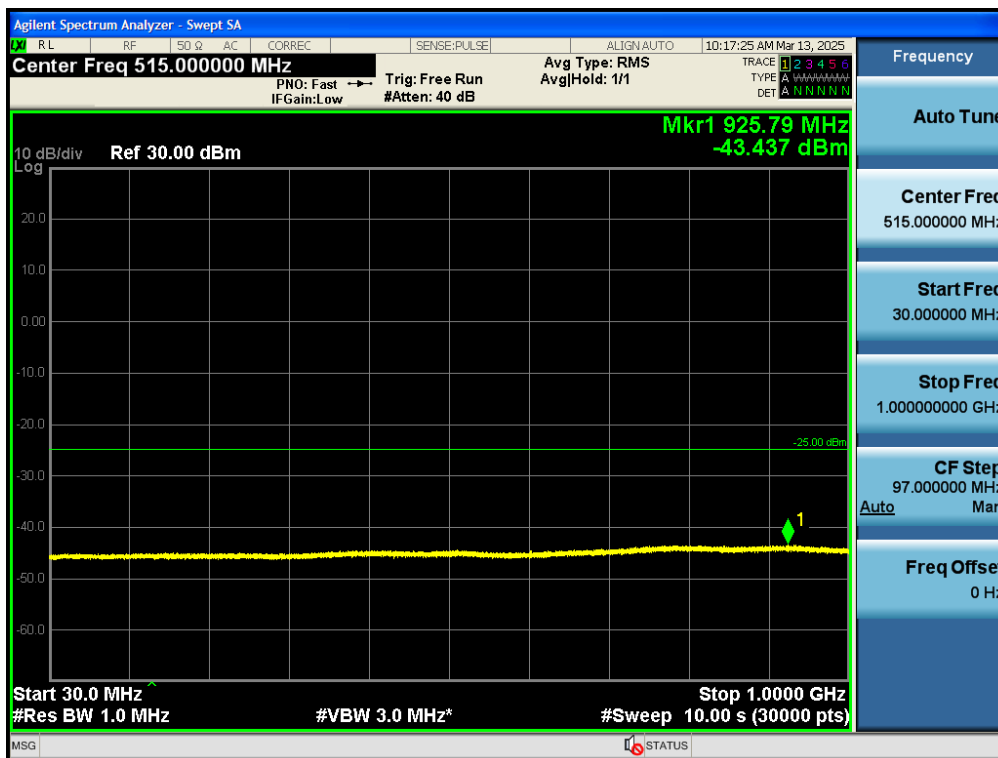
Test\_Graph\_band7\_2535MHz\_5M\_QPSK\_25RB#LOW\_30M\_1G\_TX



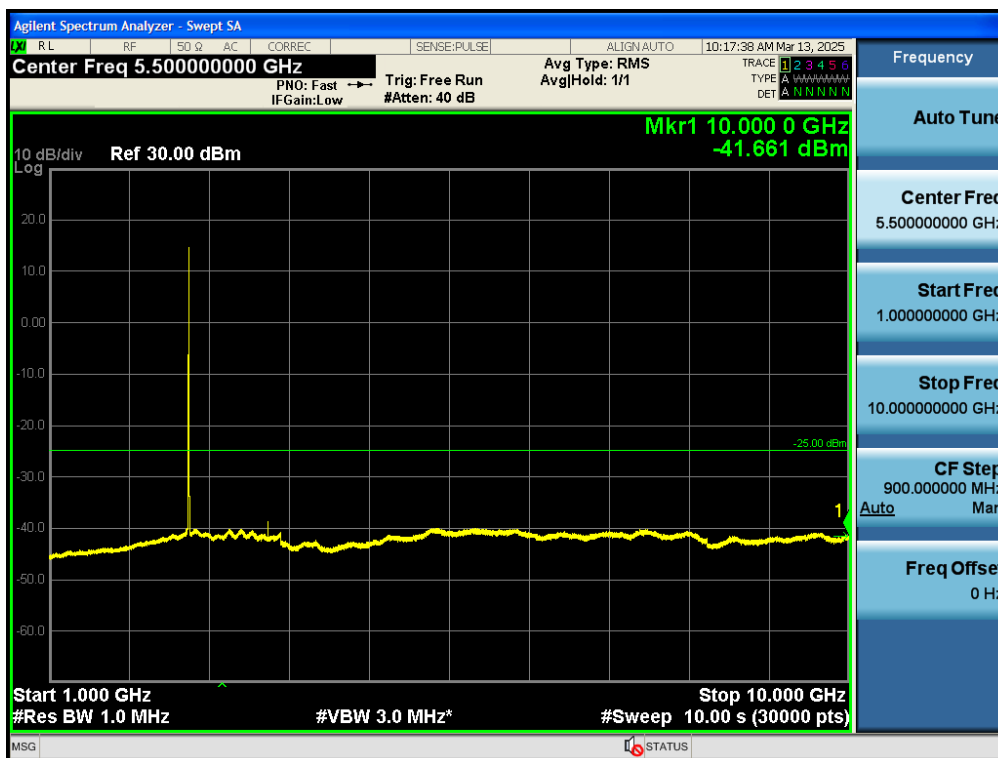
Test\_Graph\_band7\_2535MHz\_5M\_QPSK\_25RB#LOW\_1G\_10G\_TX



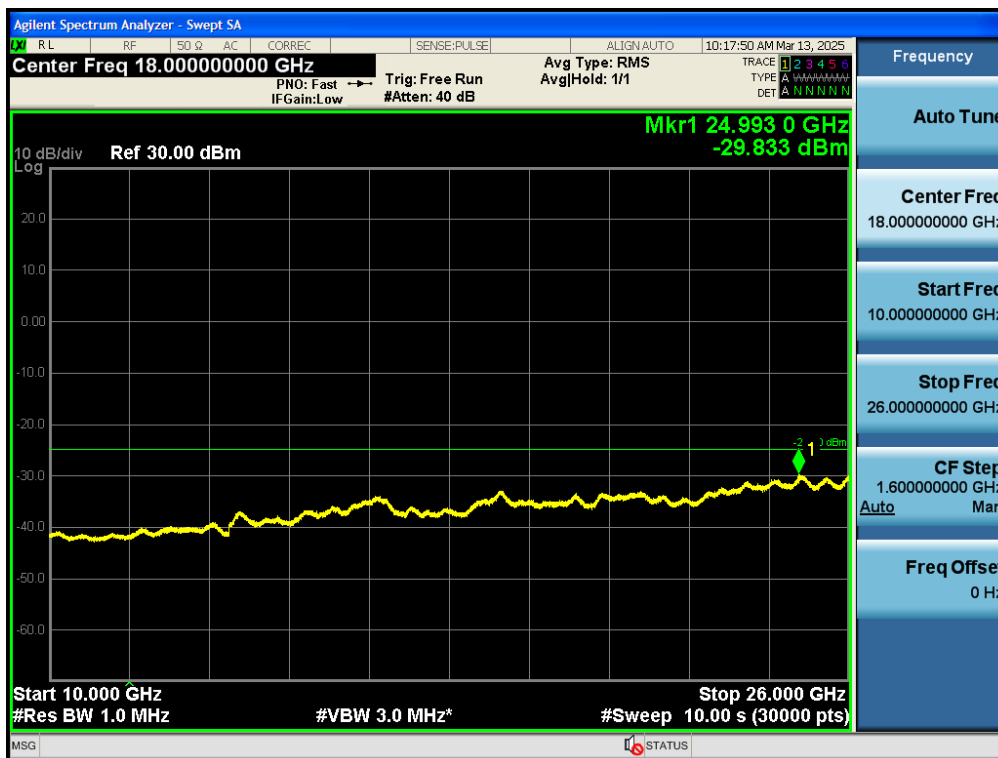
Test\_Graph\_band7\_2535MHz\_5M\_QPSK\_25RB#LOW\_10G\_26.0G\_TX



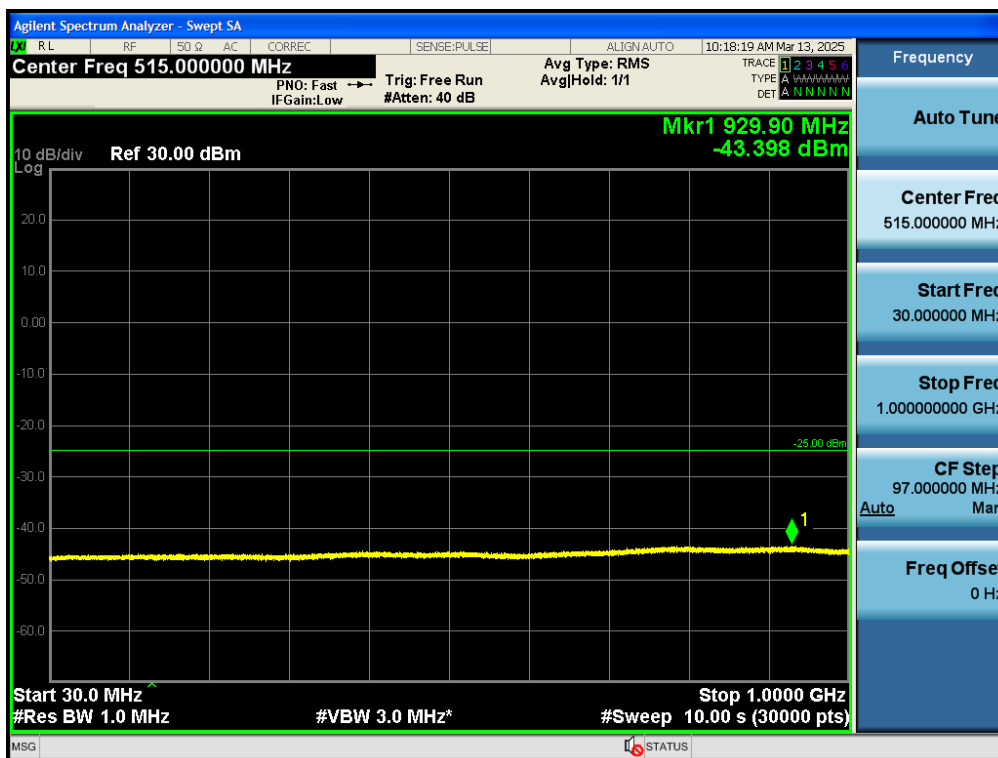
Test\_Graph\_band7\_2567.5MHz\_5M\_QPSK\_25RB#LOW\_30M\_1G\_TX



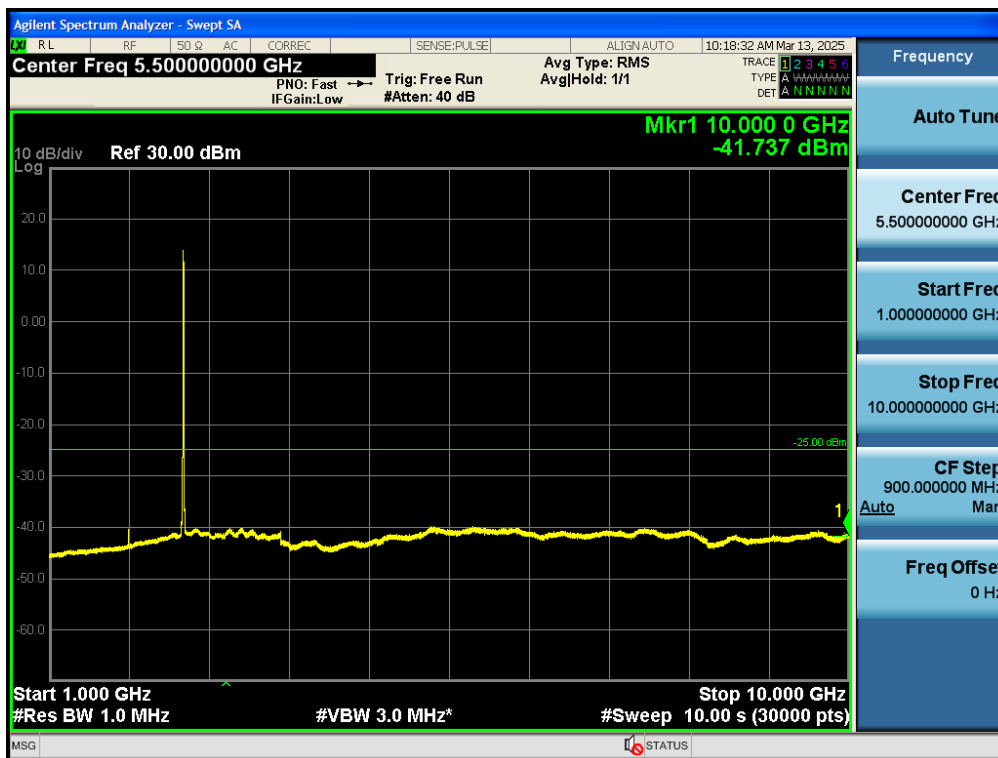
Test\_Graph\_band7\_2567.5MHz\_5M\_QPSK\_25RB#LOW\_1G\_10G\_TX



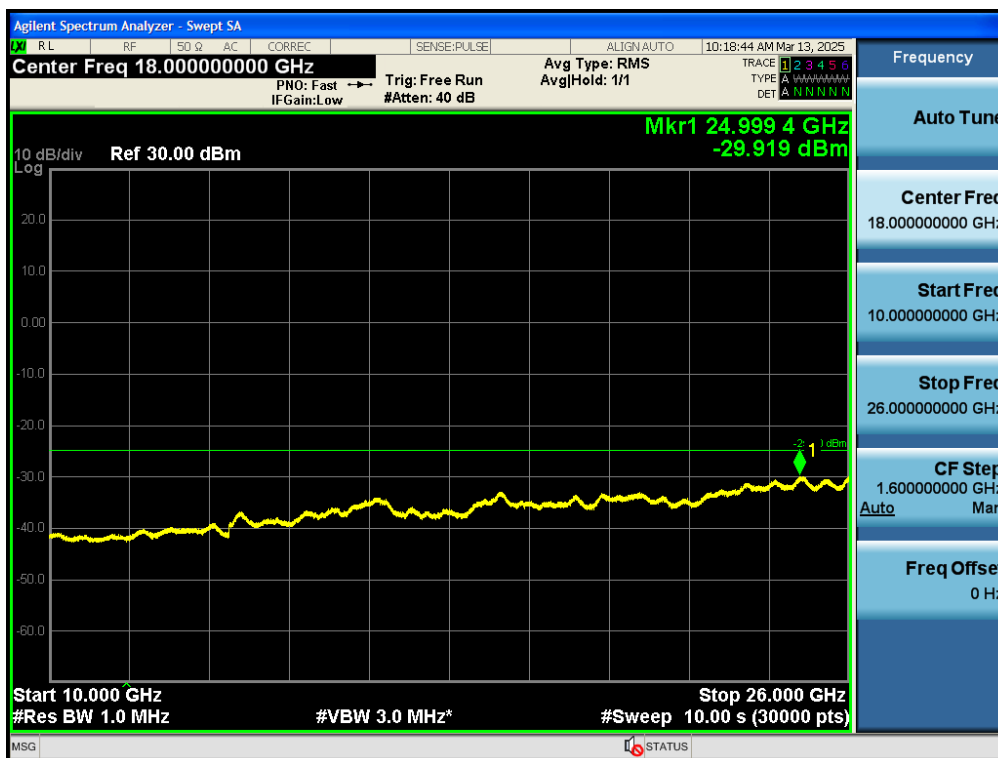
Test\_Graph\_band7\_2567.5MHz\_5M\_QPSK\_25RB#LOW\_10G\_26.0G\_TX



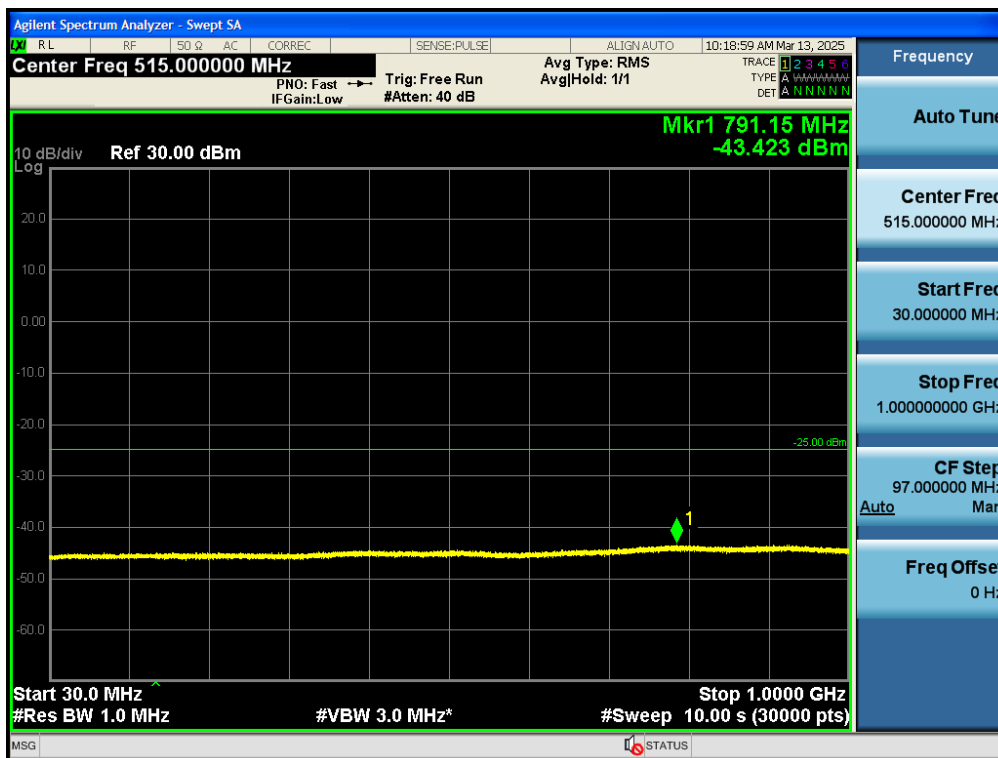
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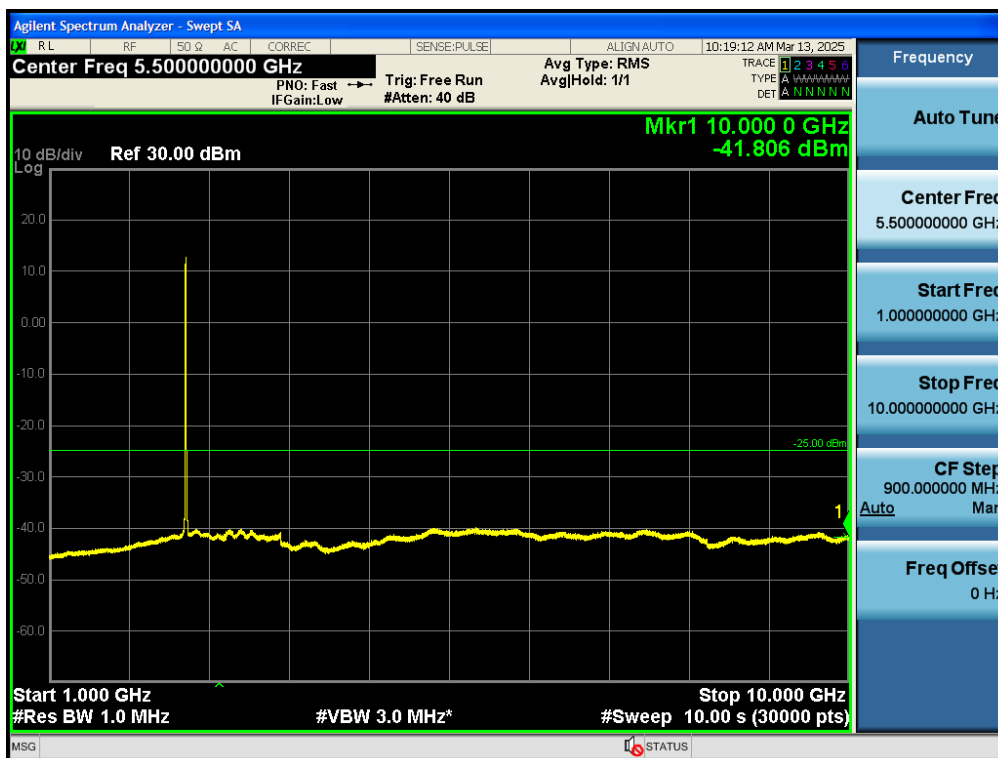
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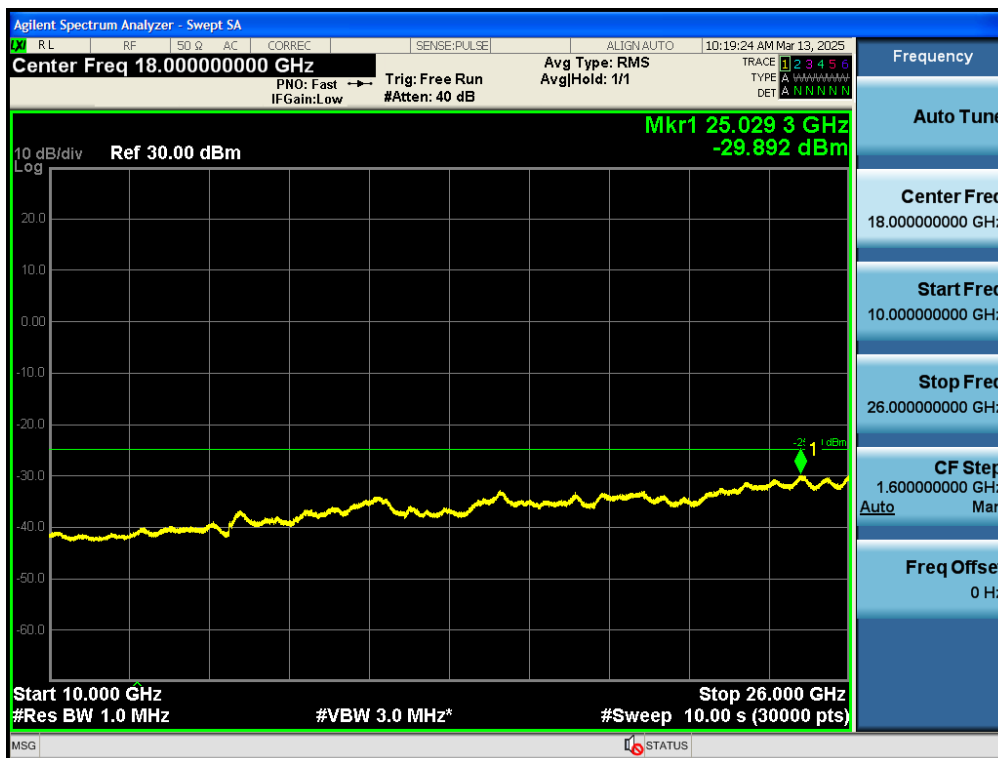
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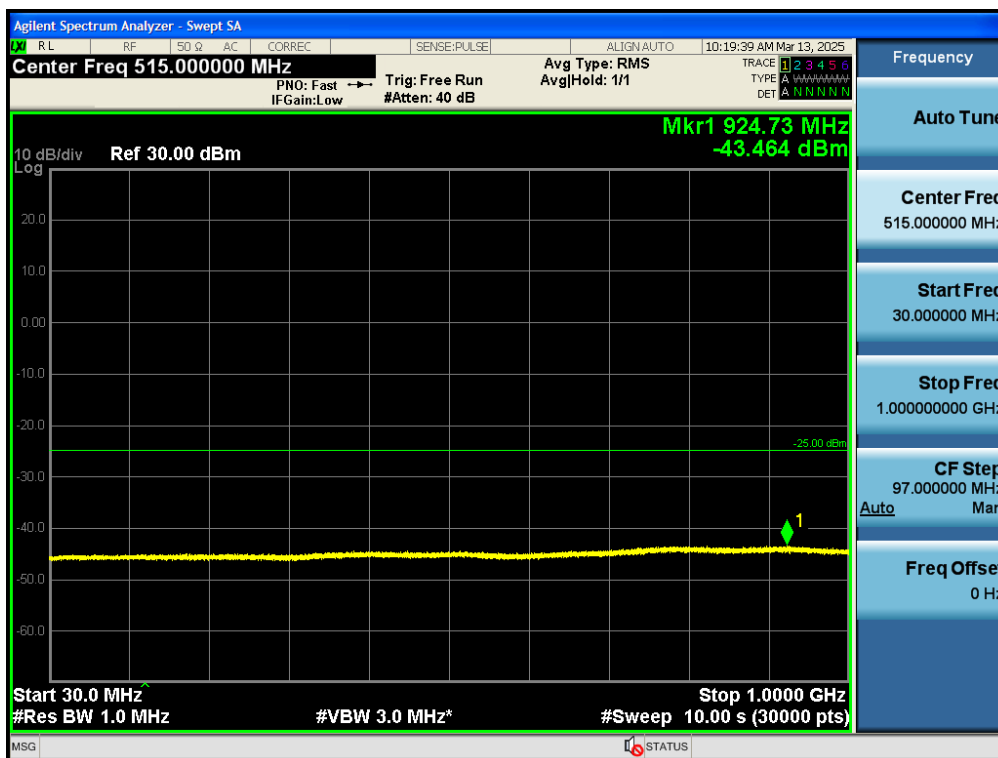
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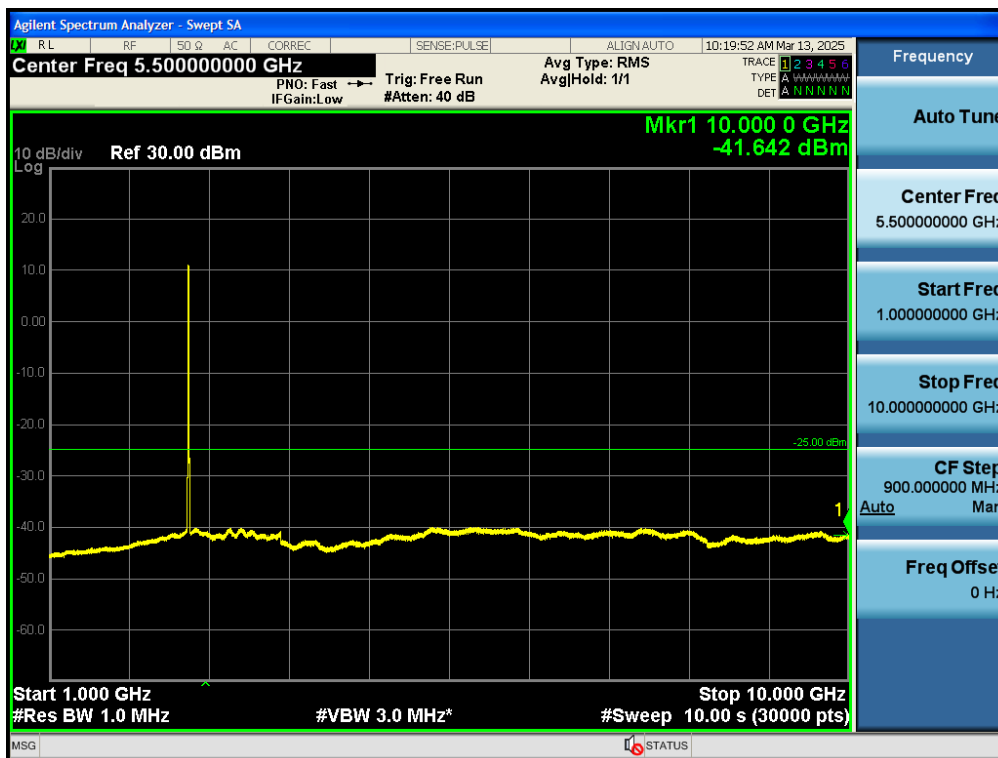
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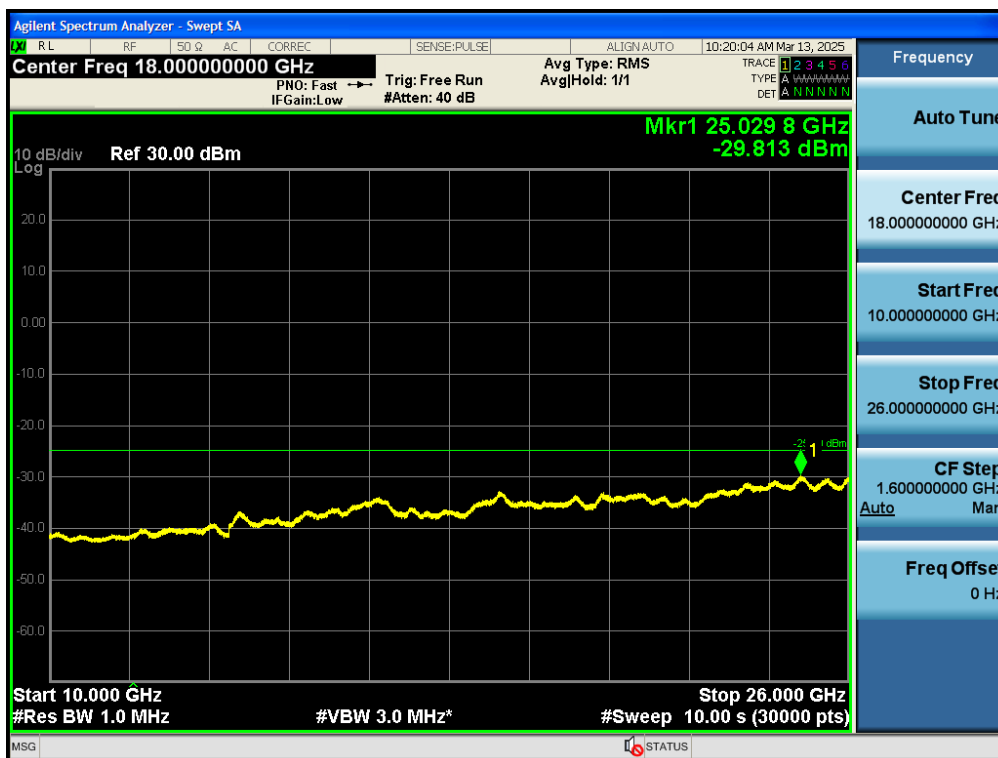
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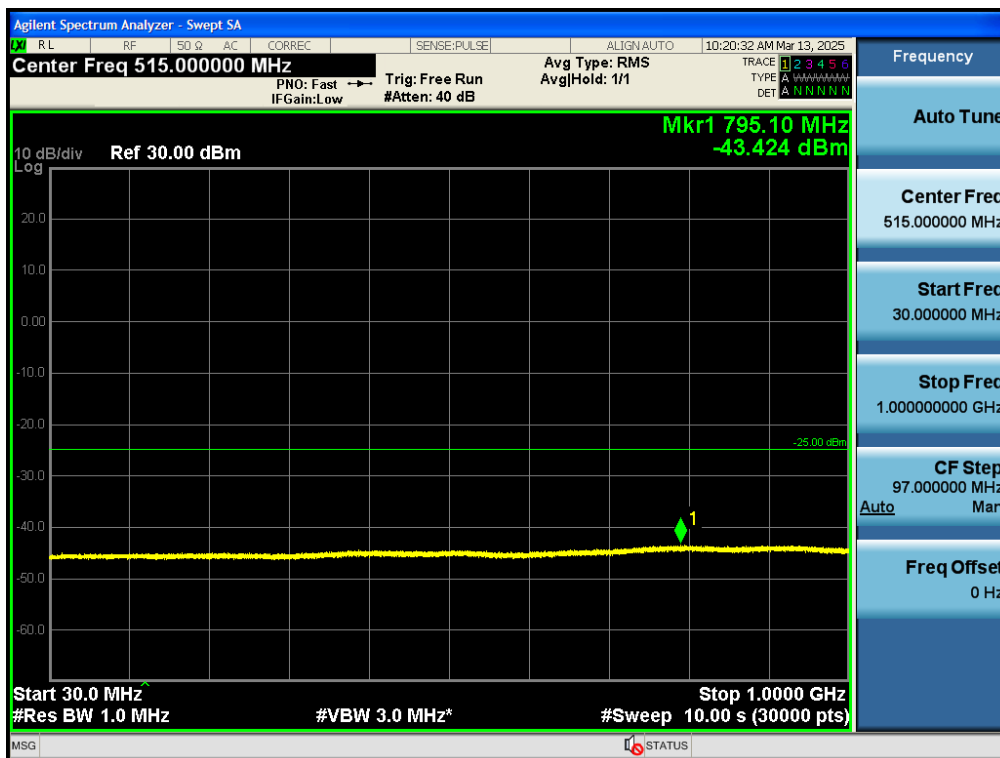
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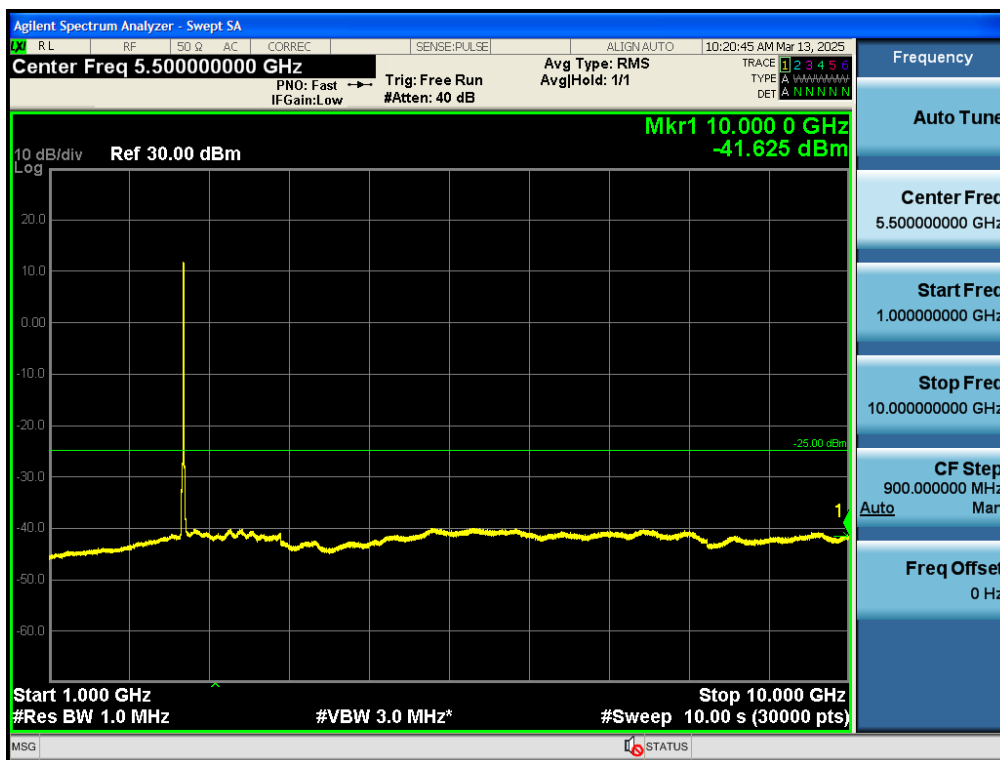
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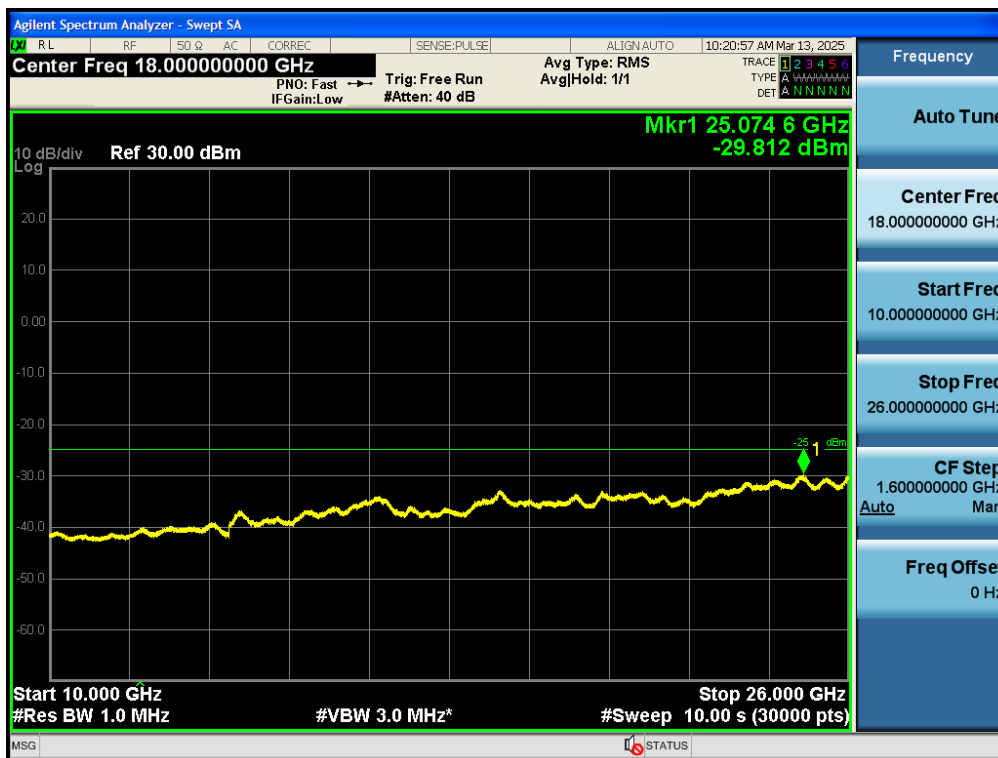
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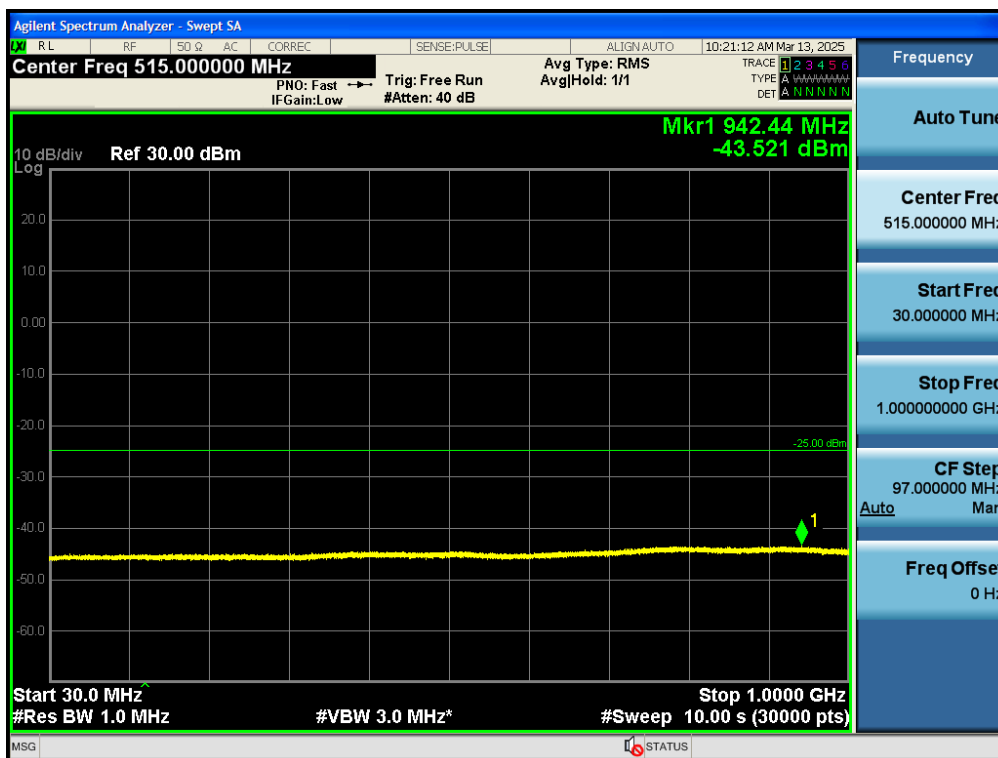
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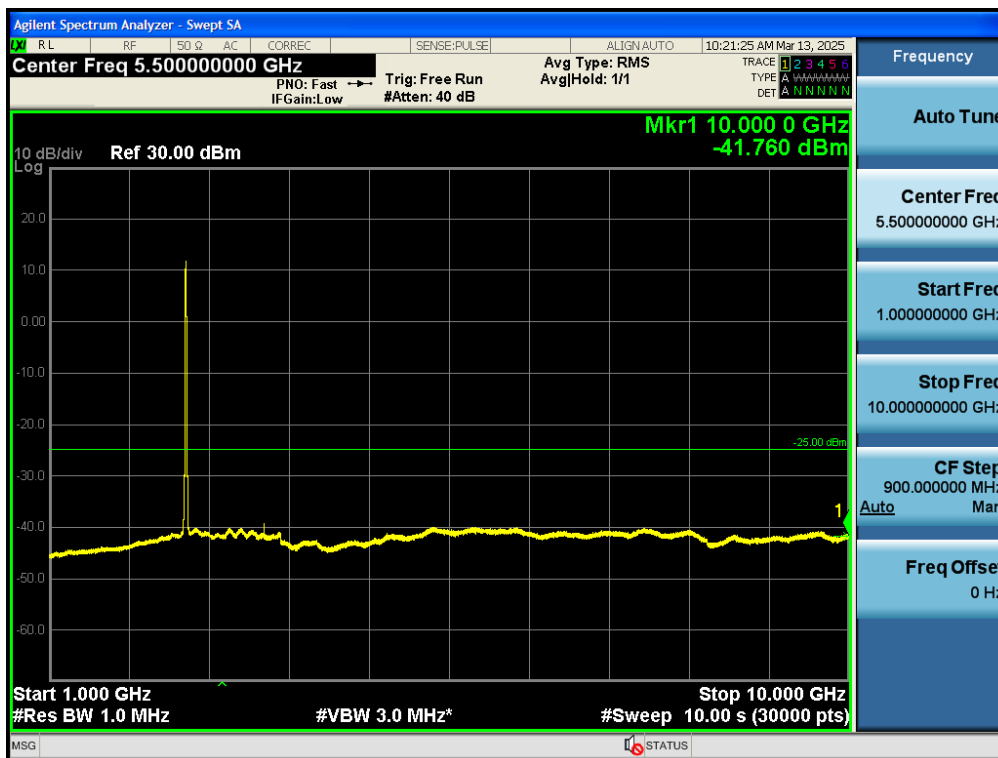
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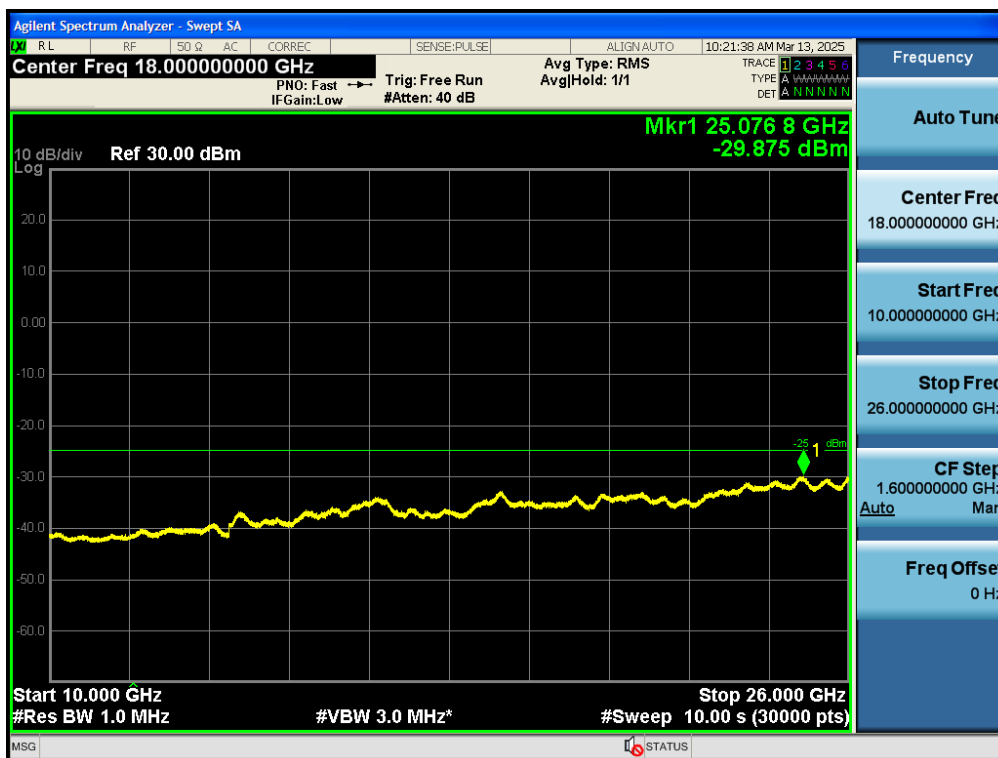
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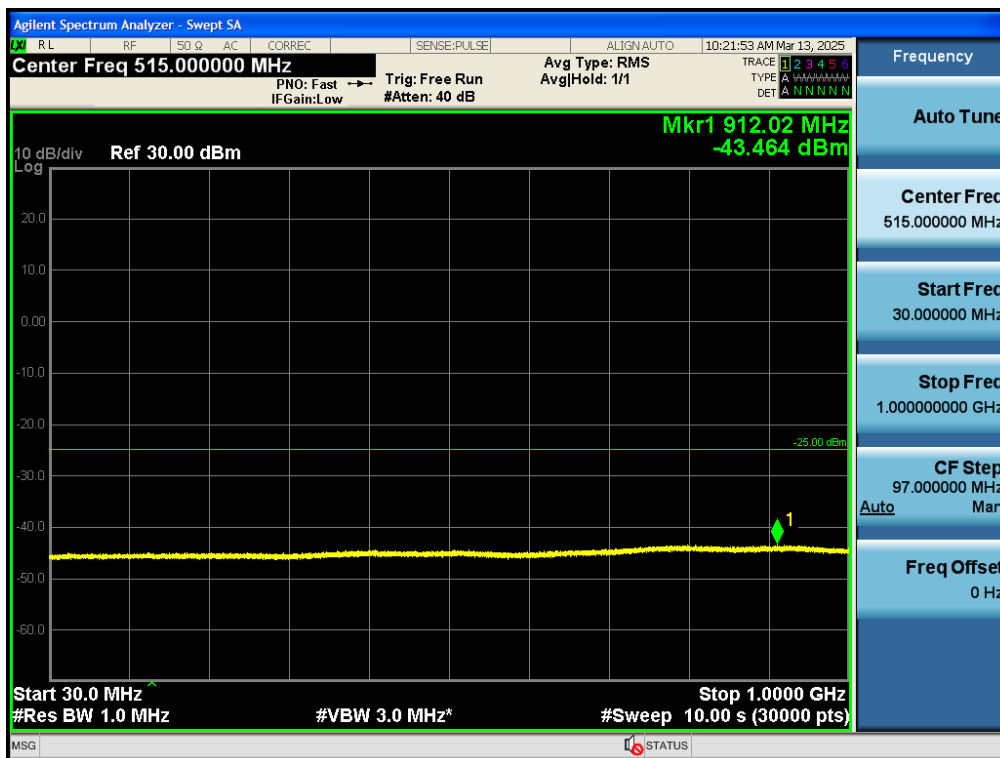
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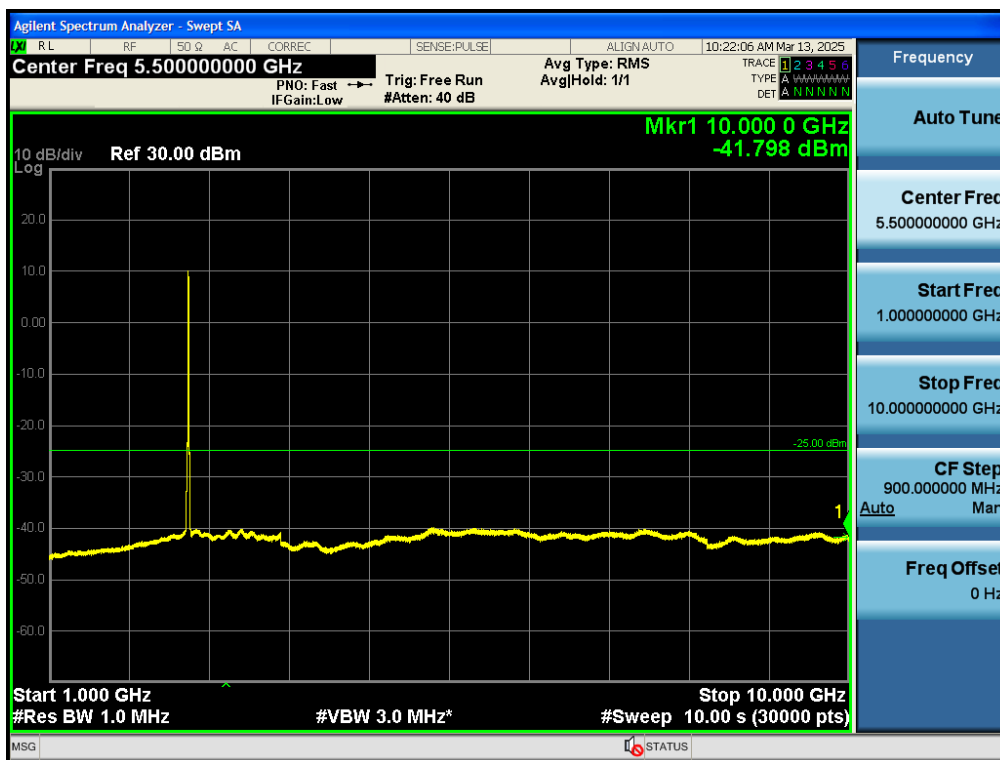
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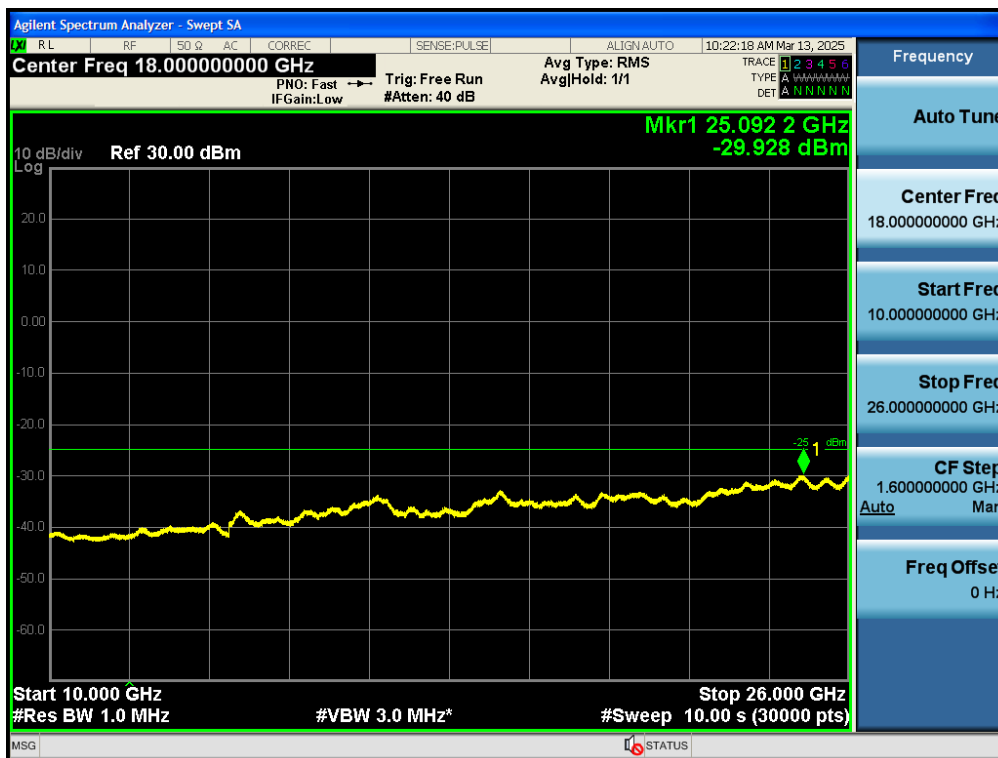
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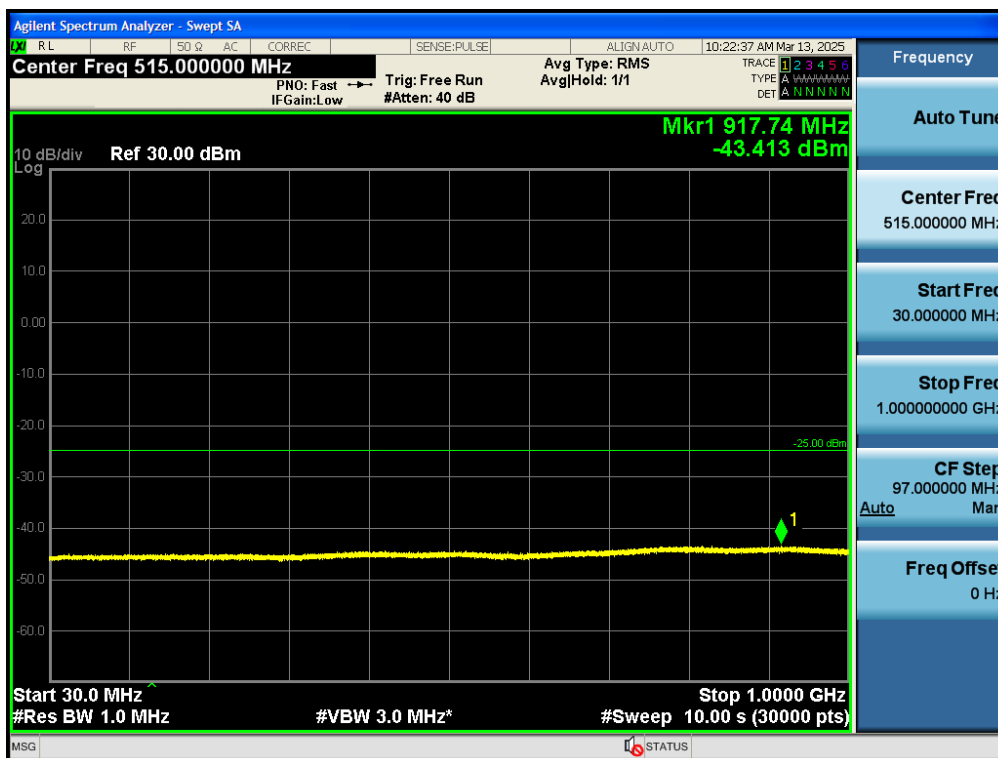
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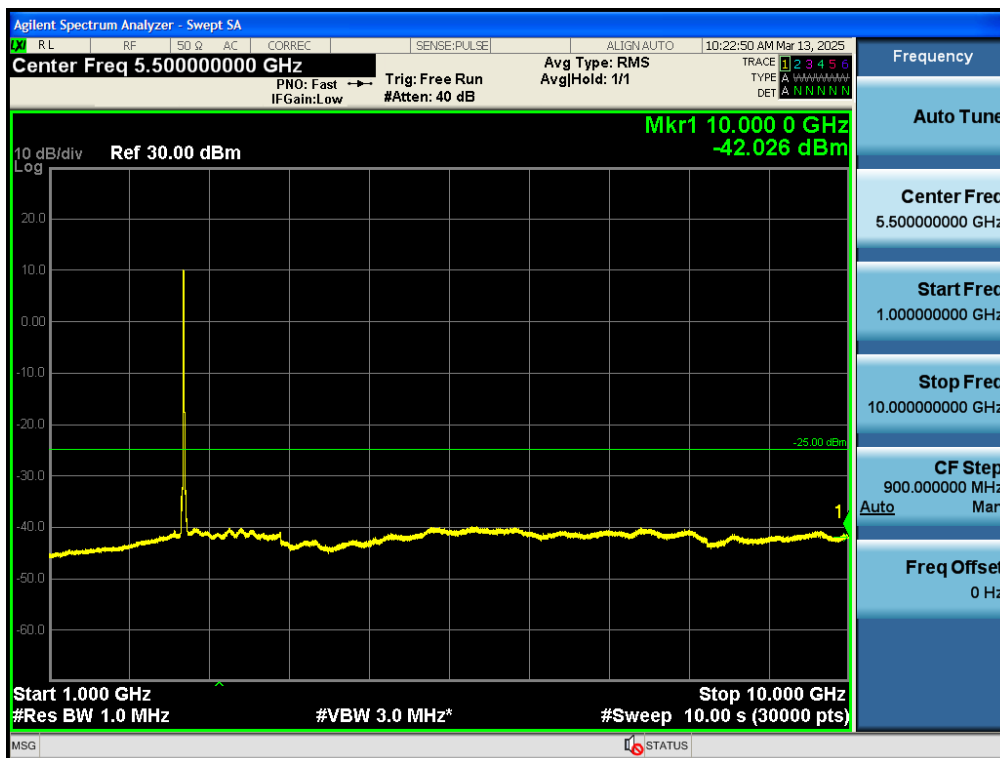
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Test\_Graph\_band7\_2562.5MHz\_15M\_QPSK\_75RB#LOW\_10G\_26.0G\_TX



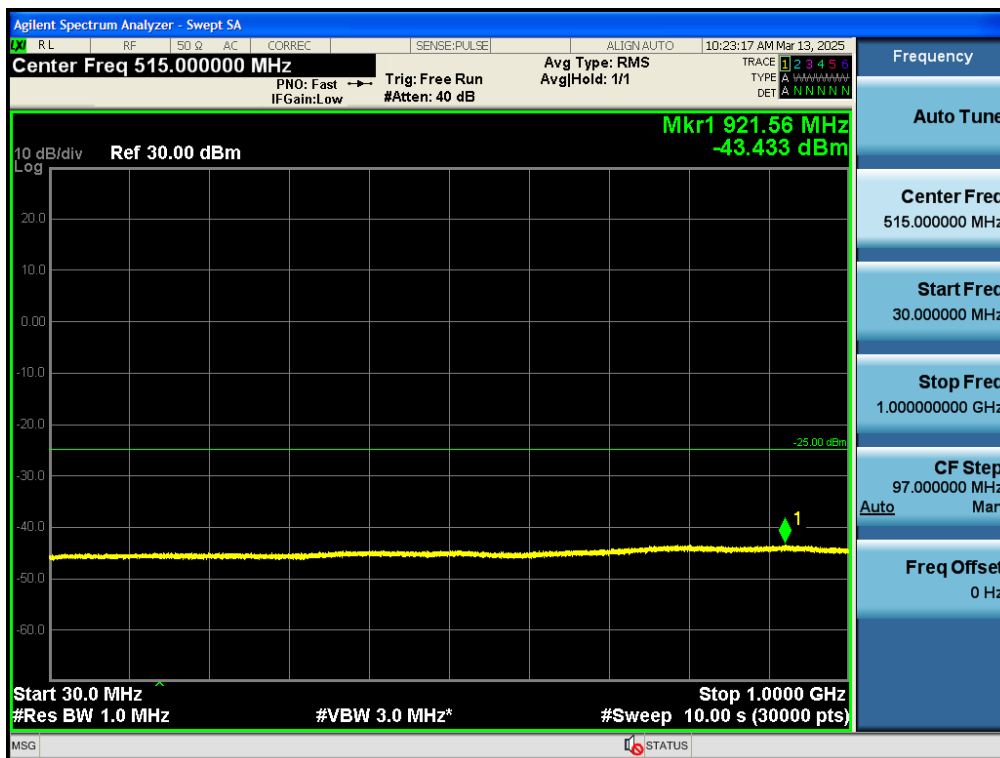
Test\_Graph\_band7\_2510MHz\_20M\_QPSK\_100RB#LOW\_30M\_1G\_TX



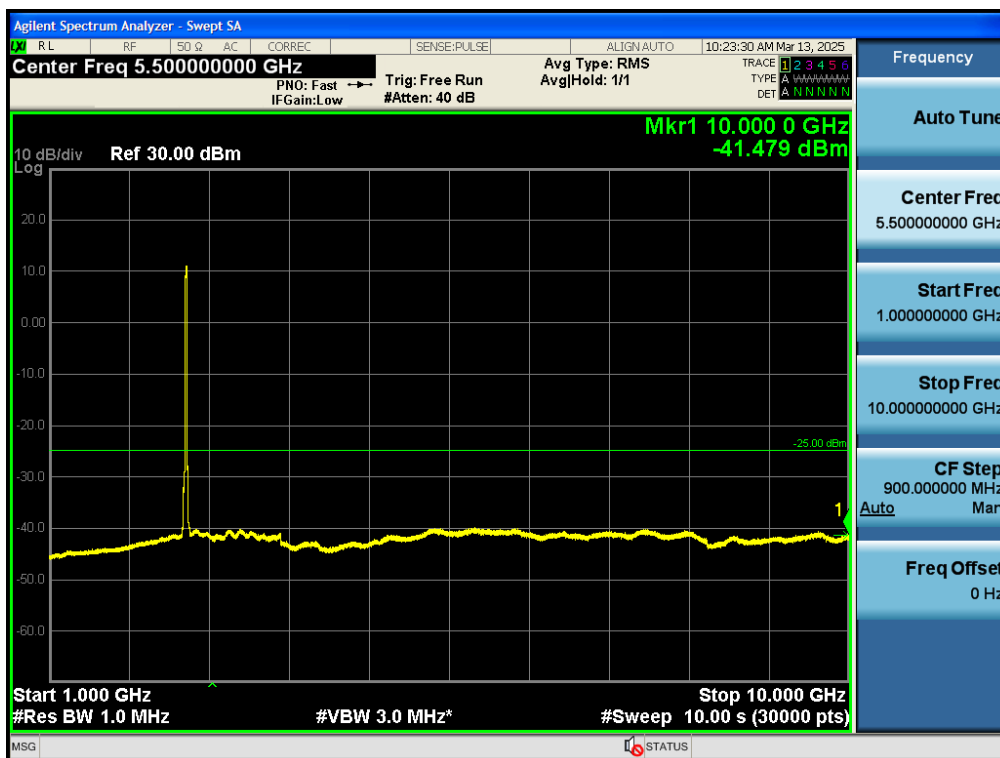
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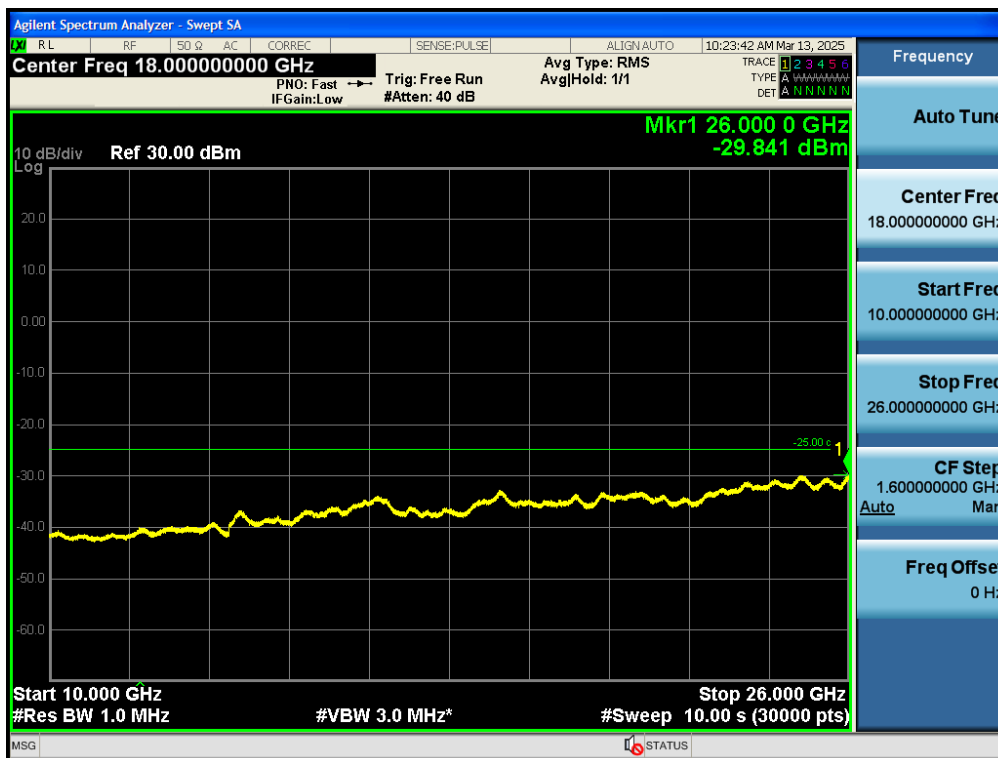
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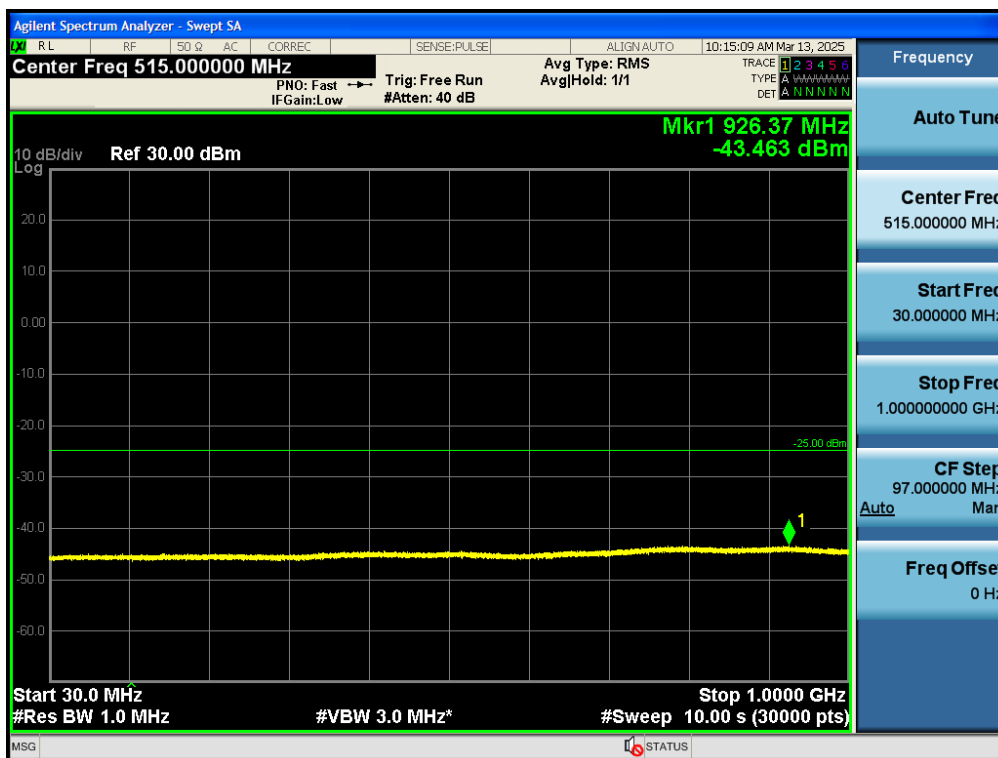
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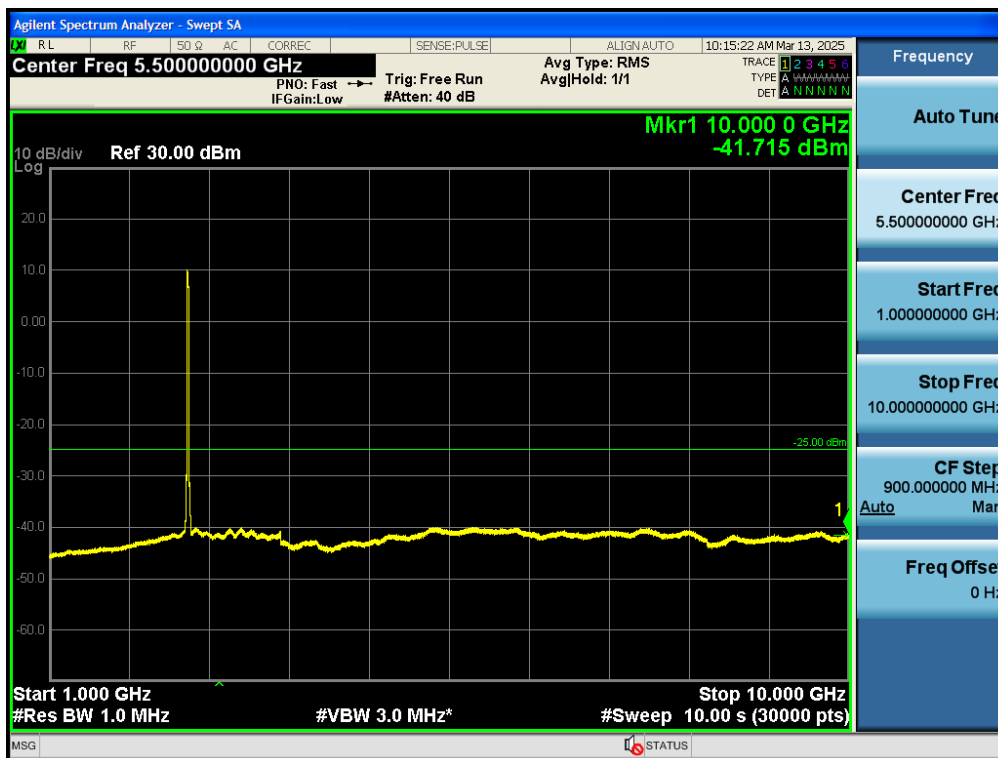
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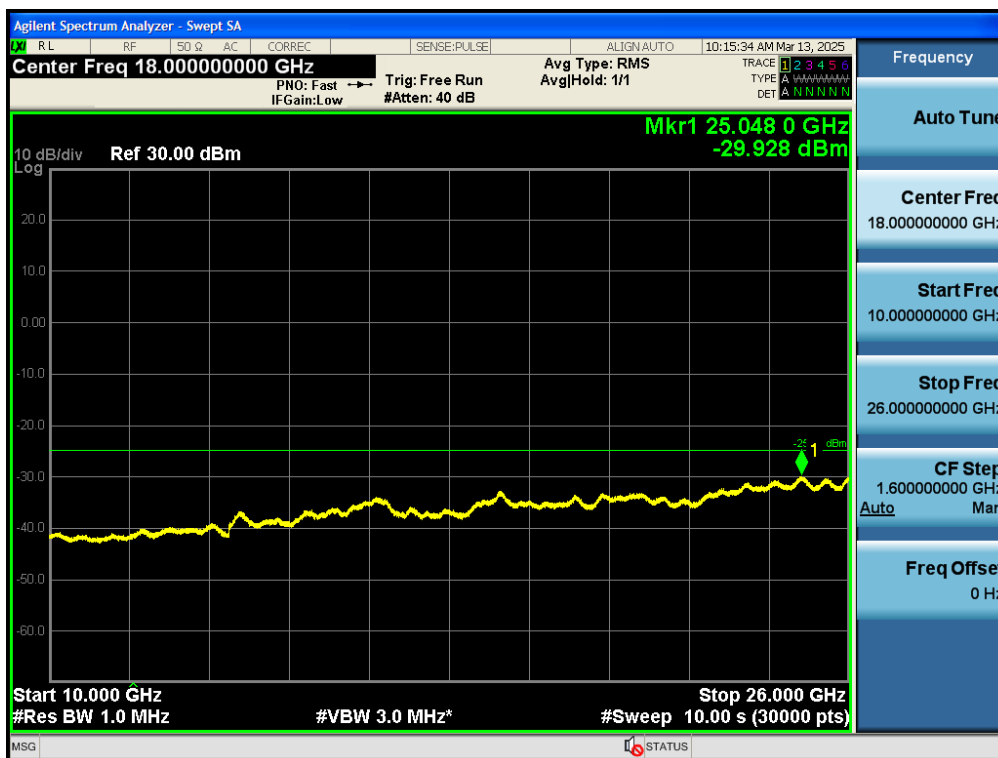
Test\_Graph\_band7\_2535MHz\_20M\_QPSK\_100RB#LOW\_10G\_26.0G\_TX



Test\_Graph\_band7\_2560MHz\_20M\_QPSK\_100RB#LOW\_30M\_1G\_TX



Test\_Graph\_band7\_2560MHz\_20M\_QPSK\_100RB#LOW\_1G\_10G\_TX



Test\_Graph\_band7\_2560MHz\_20M\_QPSK\_100RB#LOW\_10G\_26.0G\_TX

## Appendix E: Frequency stability

### Test Result

| Test Conditions  |                   | LTE Band 7(QPSK) /<br>Middle Channel | Limit  |
|------------------|-------------------|--------------------------------------|--------|
| Temperature (°C) | Voltage (Volt)    | BW 5MHz                              | 2.5ppm |
|                  |                   | Deviation (ppm)                      | Result |
| 50               | Normal Voltage    | 0.0060                               | PASS   |
| 40               | Normal Voltage    | 0.0074                               |        |
| 30               | Normal Voltage    | 0.0078                               |        |
| 20(Ref.)         | Normal Voltage    | 0.0055                               |        |
| 10               | Normal Voltage    | 0.0067                               |        |
| 0                | Normal Voltage    | 0.0073                               |        |
| -10              | Normal Voltage    | 0.0059                               |        |
| -20              | Normal Voltage    | 0.0081                               |        |
| -30              | Normal Voltage    | 0.0071                               |        |
| 20               | Maximum Voltage   | 0.0054                               |        |
| 20               | Normal Voltage    | 0.0061                               |        |
| 20               | Battery End Point | 0.0071                               |        |