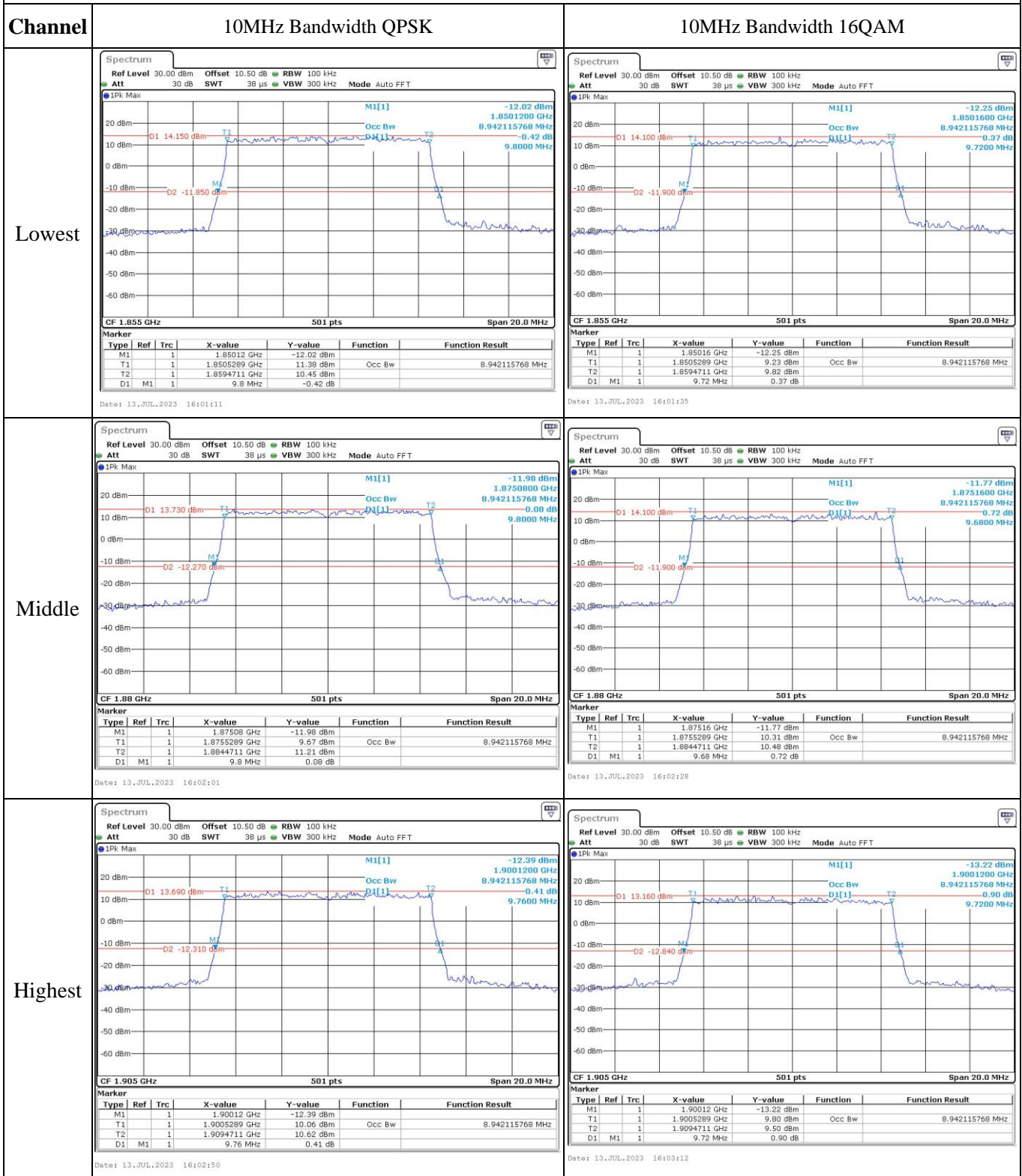


Occupied Bandwidth

| Channel | 5MHz Bandwidth QPSK | 5MHz Bandwidth 16QAM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|--|----------------------|------|---------------|------------|----------|-----------------|----------|-----------------|----|---|--|--|-------------|------------|--|--|----|---|--|--|---------------|-----------|--------|-----------------|----|---|--|--|---------------|-----------|--|--|----|----|---|--|----------|----------|--|--|---|--------|------|-----|-----|---------|---------|----------|-----------------|----|---|--|--|-------------|------------|--|--|----|---|--|--|---------------|----------|--------|-----------------|----|---|--|--|---------------|-----------|--|--|----|----|---|--|----------|---------|--|--|
| Lowest | <table border="1"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td></td> <td>1.85 GHz</td> <td>-8.66 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td></td> <td>1.8502645 GHz</td> <td>12.21 dBm</td> <td>Occ Bw</td> <td>4.491017964 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td></td> <td>1.8547555 GHz</td> <td>12.58 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td></td> <td>5.02 MHz</td> <td>0.21 dB</td> <td></td> <td></td> </tr> </tbody> </table> | Marker | Type | Ref | Trc | X-value | Y-value | Function | Function Result | M1 | 1 | | | 1.85 GHz | -8.66 dBm | | | T1 | 1 | | | 1.8502645 GHz | 12.21 dBm | Occ Bw | 4.491017964 MHz | T2 | 1 | | | 1.8547555 GHz | 12.58 dBm | | | D1 | M1 | 1 | | 5.02 MHz | 0.21 dB | | | <table border="1"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td></td> <td>1.84998 GHz</td> <td>-10.59 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td></td> <td>1.8502445 GHz</td> <td>9.83 dBm</td> <td>Occ Bw</td> <td>4.510978044 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td></td> <td>1.8547555 GHz</td> <td>10.84 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td></td> <td>5.04 MHz</td> <td>0.63 dB</td> <td></td> <td></td> </tr> </tbody> </table> | Marker | Type | Ref | Trc | X-value | Y-value | Function | Function Result | M1 | 1 | | | 1.84998 GHz | -10.59 dBm | | | T1 | 1 | | | 1.8502445 GHz | 9.83 dBm | Occ Bw | 4.510978044 MHz | T2 | 1 | | | 1.8547555 GHz | 10.84 dBm | | | D1 | M1 | 1 | | 5.04 MHz | 0.63 dB | | |
| Marker | Type | Ref | Trc | X-value | Y-value | Function | Function Result | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M1 | 1 | | | 1.85 GHz | -8.66 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T1 | 1 | | | 1.8502645 GHz | 12.21 dBm | Occ Bw | 4.491017964 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T2 | 1 | | | 1.8547555 GHz | 12.58 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D1 | M1 | 1 | | 5.02 MHz | 0.21 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Marker | Type | Ref | Trc | X-value | Y-value | Function | Function Result | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M1 | 1 | | | 1.84998 GHz | -10.59 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T1 | 1 | | | 1.8502445 GHz | 9.83 dBm | Occ Bw | 4.510978044 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T2 | 1 | | | 1.8547555 GHz | 10.84 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D1 | M1 | 1 | | 5.04 MHz | 0.63 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Middle | <table border="1"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td></td> <td>1.87748 GHz</td> <td>-9.26 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td></td> <td>1.8777445 GHz</td> <td>12.31 dBm</td> <td>Occ Bw</td> <td>4.510978044 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td></td> <td>1.8822555 GHz</td> <td>11.89 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td></td> <td>5.04 MHz</td> <td>-0.42 dB</td> <td></td> <td></td> </tr> </tbody> </table> | Marker | Type | Ref | Trc | X-value | Y-value | Function | Function Result | M1 | 1 | | | 1.87748 GHz | -9.26 dBm | | | T1 | 1 | | | 1.8777445 GHz | 12.31 dBm | Occ Bw | 4.510978044 MHz | T2 | 1 | | | 1.8822555 GHz | 11.89 dBm | | | D1 | M1 | 1 | | 5.04 MHz | -0.42 dB | | | <table border="1"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td></td> <td>1.87748 GHz</td> <td>-9.80 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td></td> <td>1.8777445 GHz</td> <td>9.67 dBm</td> <td>Occ Bw</td> <td>4.510978044 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td></td> <td>1.8822555 GHz</td> <td>9.88 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td></td> <td>5.0 MHz</td> <td>1.03 dB</td> <td></td> <td></td> </tr> </tbody> </table> | Marker | Type | Ref | Trc | X-value | Y-value | Function | Function Result | M1 | 1 | | | 1.87748 GHz | -9.80 dBm | | | T1 | 1 | | | 1.8777445 GHz | 9.67 dBm | Occ Bw | 4.510978044 MHz | T2 | 1 | | | 1.8822555 GHz | 9.88 dBm | | | D1 | M1 | 1 | | 5.0 MHz | 1.03 dB | | |
| Marker | Type | Ref | Trc | X-value | Y-value | Function | Function Result | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M1 | 1 | | | 1.87748 GHz | -9.26 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T1 | 1 | | | 1.8777445 GHz | 12.31 dBm | Occ Bw | 4.510978044 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T2 | 1 | | | 1.8822555 GHz | 11.89 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D1 | M1 | 1 | | 5.04 MHz | -0.42 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Marker | Type | Ref | Trc | X-value | Y-value | Function | Function Result | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M1 | 1 | | | 1.87748 GHz | -9.80 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T1 | 1 | | | 1.8777445 GHz | 9.67 dBm | Occ Bw | 4.510978044 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T2 | 1 | | | 1.8822555 GHz | 9.88 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D1 | M1 | 1 | | 5.0 MHz | 1.03 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Highest | <table border="1"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td></td> <td>1.90498 GHz</td> <td>-10.68 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td></td> <td>1.9052445 GHz</td> <td>11.04 dBm</td> <td>Occ Bw</td> <td>4.510978044 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td></td> <td>1.9097555 GHz</td> <td>11.23 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td></td> <td>5.04 MHz</td> <td>0.41 dB</td> <td></td> <td></td> </tr> </tbody> </table> | Marker | Type | Ref | Trc | X-value | Y-value | Function | Function Result | M1 | 1 | | | 1.90498 GHz | -10.68 dBm | | | T1 | 1 | | | 1.9052445 GHz | 11.04 dBm | Occ Bw | 4.510978044 MHz | T2 | 1 | | | 1.9097555 GHz | 11.23 dBm | | | D1 | M1 | 1 | | 5.04 MHz | 0.41 dB | | | <table border="1"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td></td> <td>1.90498 GHz</td> <td>-11.42 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td></td> <td>1.9052445 GHz</td> <td>9.66 dBm</td> <td>Occ Bw</td> <td>4.510978044 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td></td> <td>1.9097555 GHz</td> <td>11.36 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td></td> <td>5.04 MHz</td> <td>1.20 dB</td> <td></td> <td></td> </tr> </tbody> </table> | Marker | Type | Ref | Trc | X-value | Y-value | Function | Function Result | M1 | 1 | | | 1.90498 GHz | -11.42 dBm | | | T1 | 1 | | | 1.9052445 GHz | 9.66 dBm | Occ Bw | 4.510978044 MHz | T2 | 1 | | | 1.9097555 GHz | 11.36 dBm | | | D1 | M1 | 1 | | 5.04 MHz | 1.20 dB | | |
| Marker | Type | Ref | Trc | X-value | Y-value | Function | Function Result | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M1 | 1 | | | 1.90498 GHz | -10.68 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T1 | 1 | | | 1.9052445 GHz | 11.04 dBm | Occ Bw | 4.510978044 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T2 | 1 | | | 1.9097555 GHz | 11.23 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D1 | M1 | 1 | | 5.04 MHz | 0.41 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Marker | Type | Ref | Trc | X-value | Y-value | Function | Function Result | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M1 | 1 | | | 1.90498 GHz | -11.42 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T1 | 1 | | | 1.9052445 GHz | 9.66 dBm | Occ Bw | 4.510978044 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T2 | 1 | | | 1.9097555 GHz | 11.36 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D1 | M1 | 1 | | 5.04 MHz | 1.20 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Occupied Bandwidth



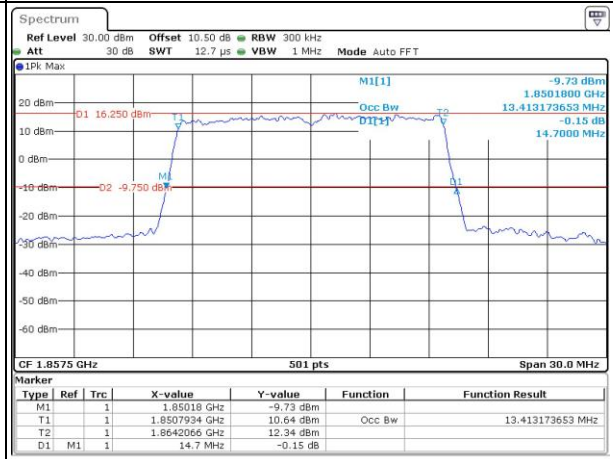
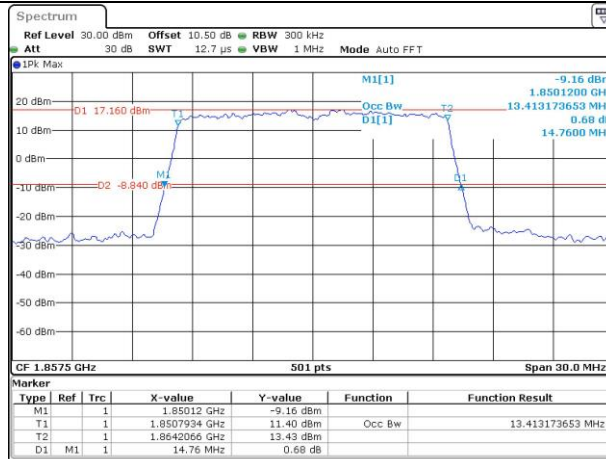
Occupied Bandwidth

Channel

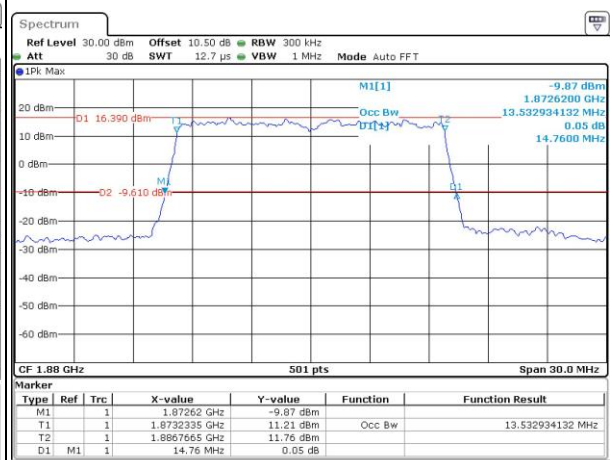
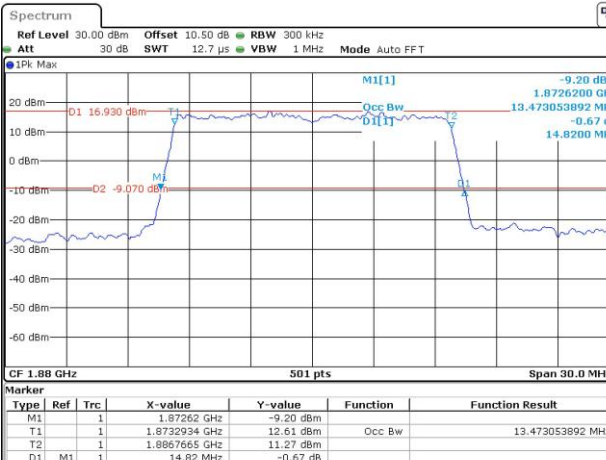
15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

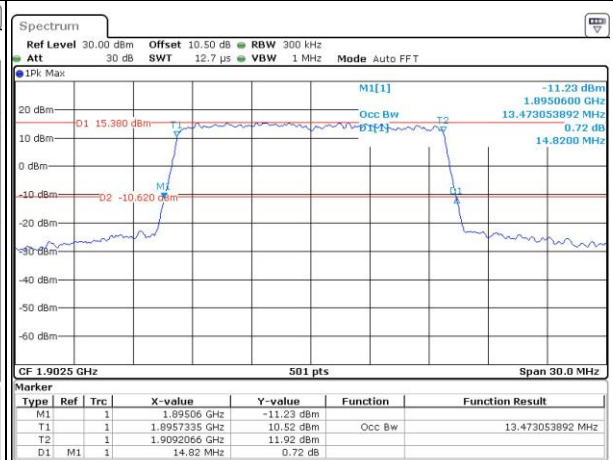
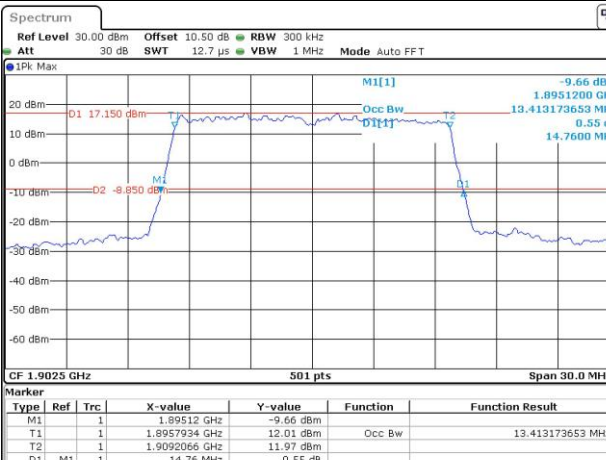
Lowest



Middle



Highest



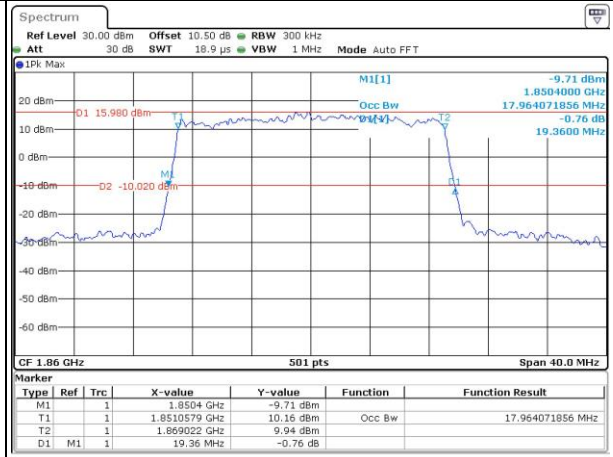
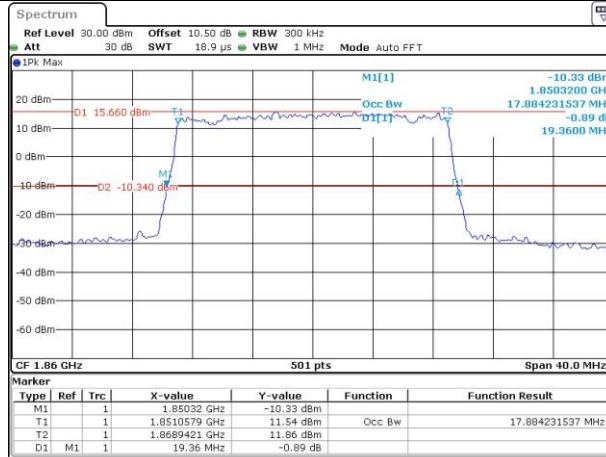
Occupied Bandwidth

Channel

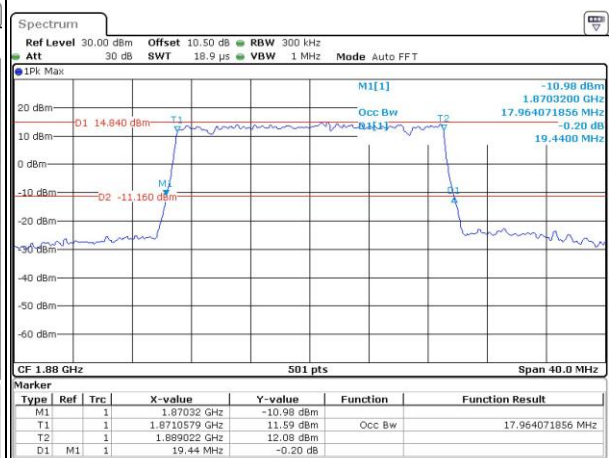
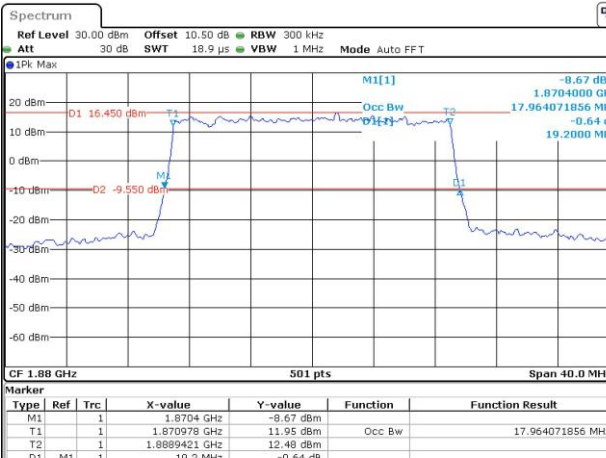
20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

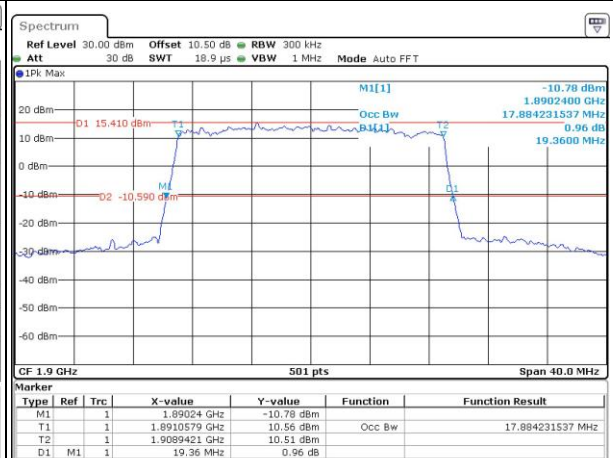
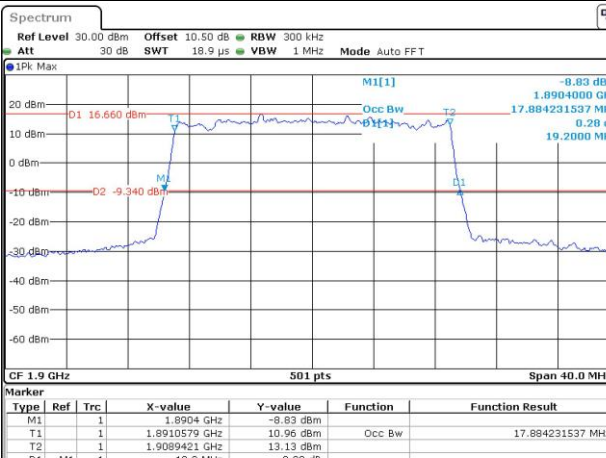
Lowest



Middle



Highest

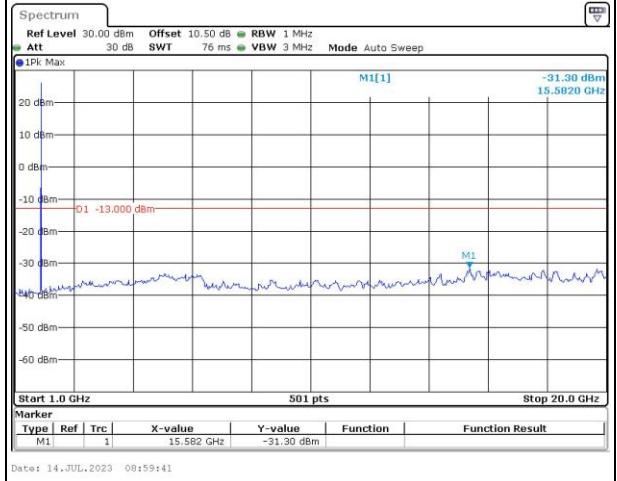
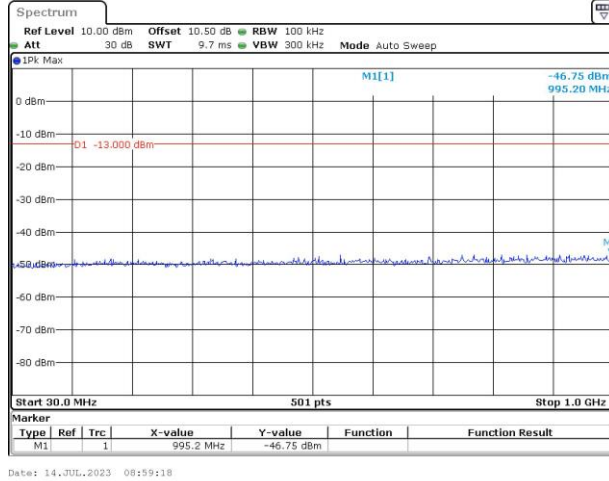


Spurious Emissions at Antenna Terminal

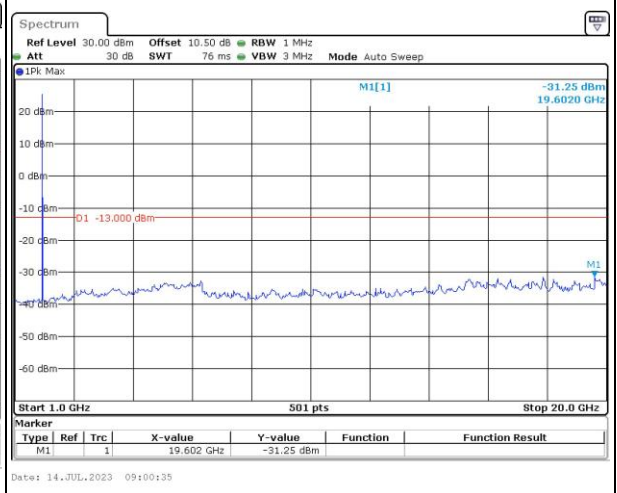
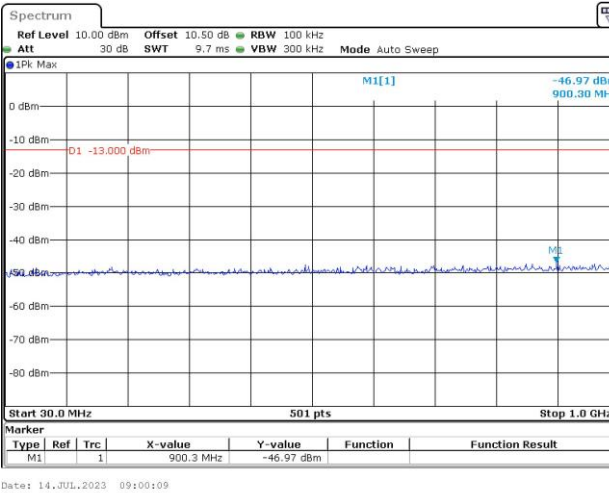
Channel

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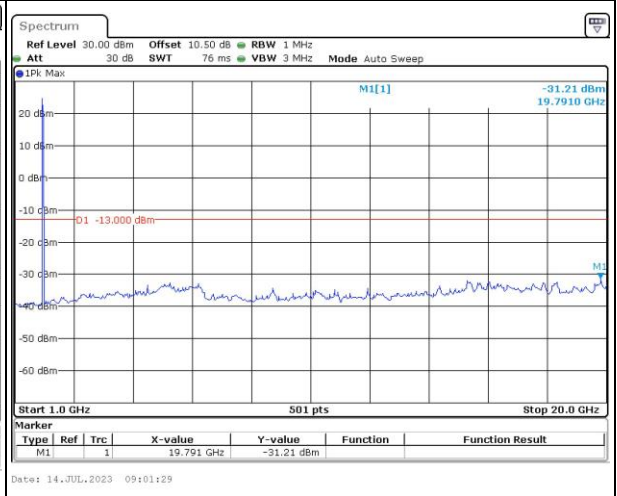
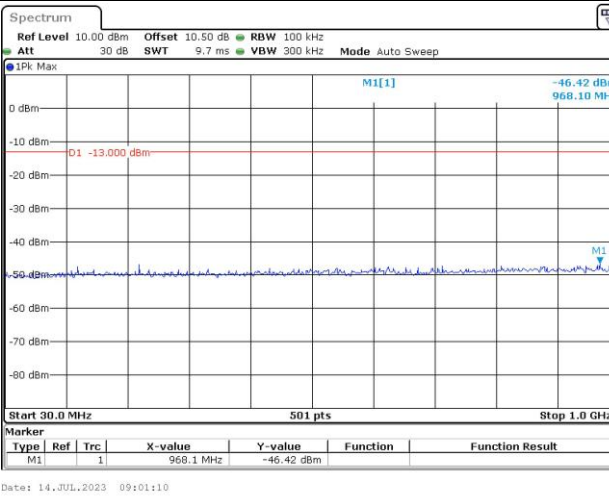
Lowest



Middle



Highest

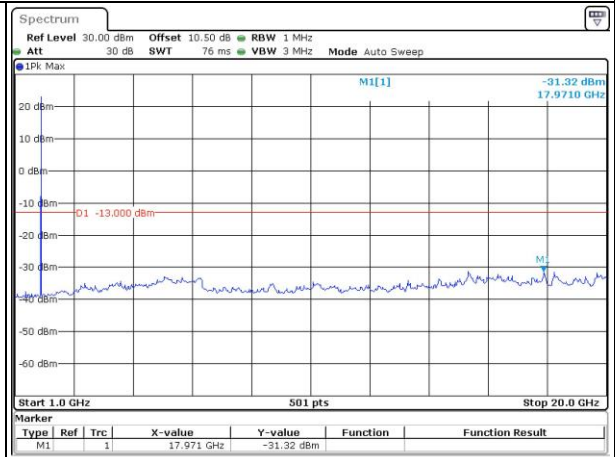
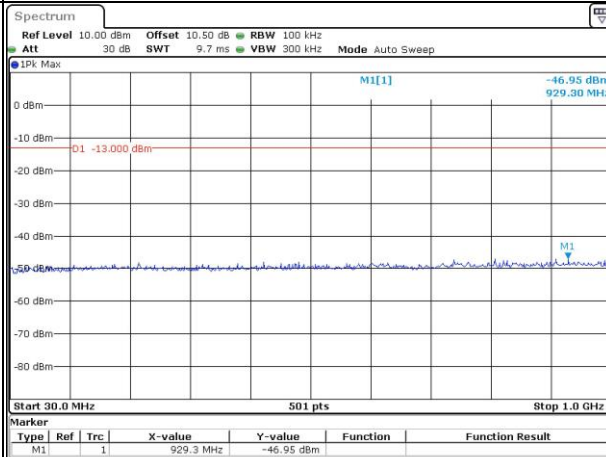


Spurious Emissions at Antenna Terminal

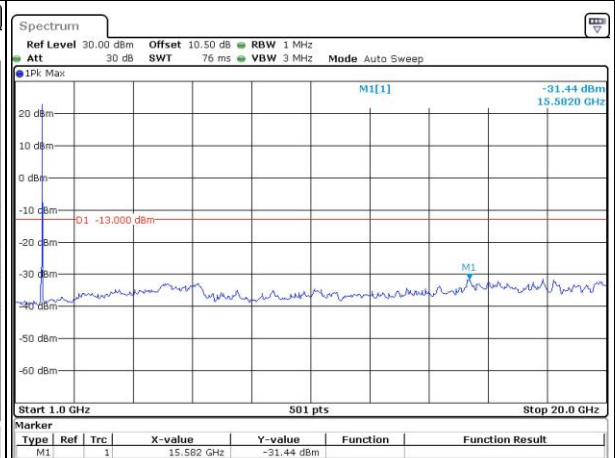
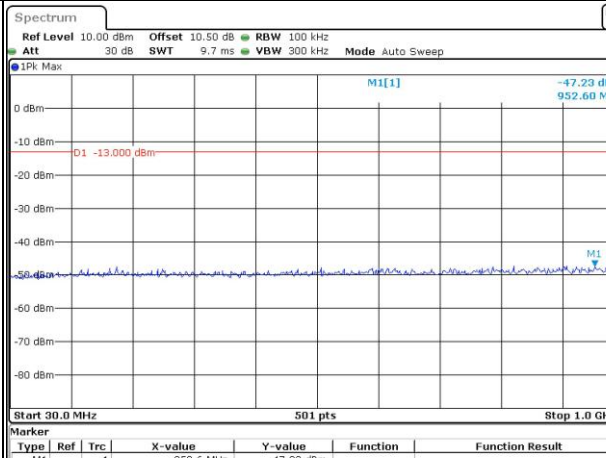
Channel

3MHz Bandwidth QPSK

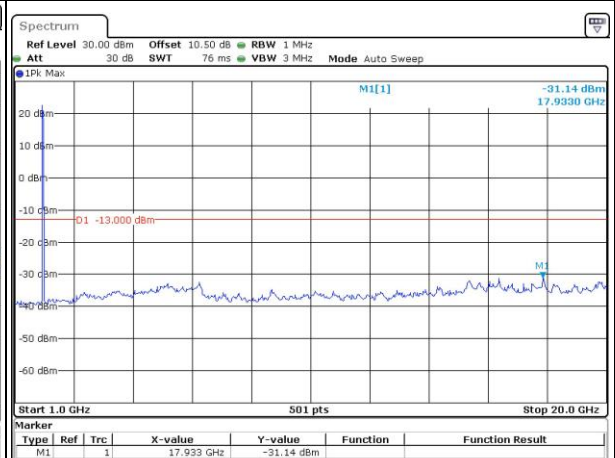
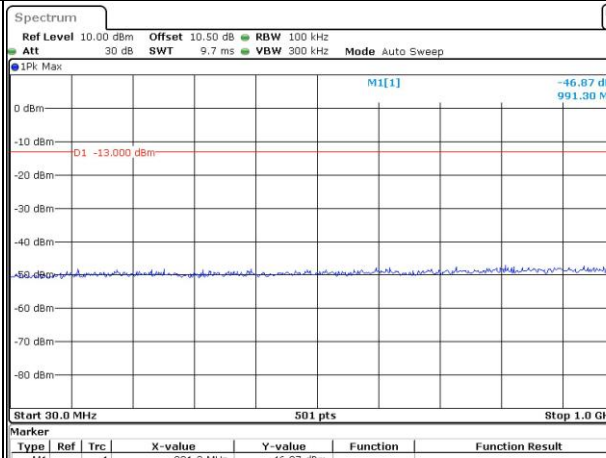
Lowest



Middle



Highest

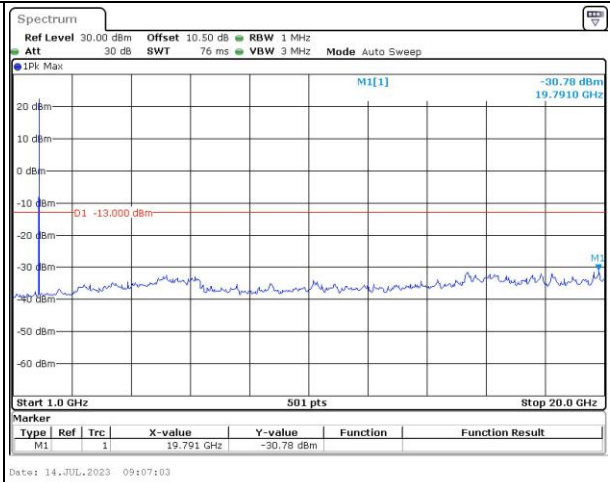
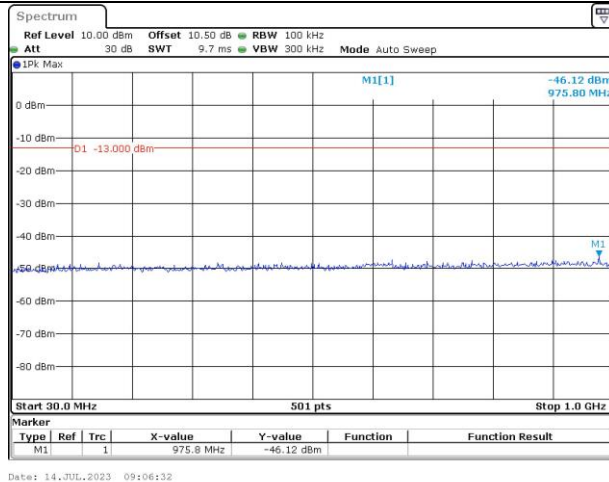


Spurious Emissions at Antenna Terminal

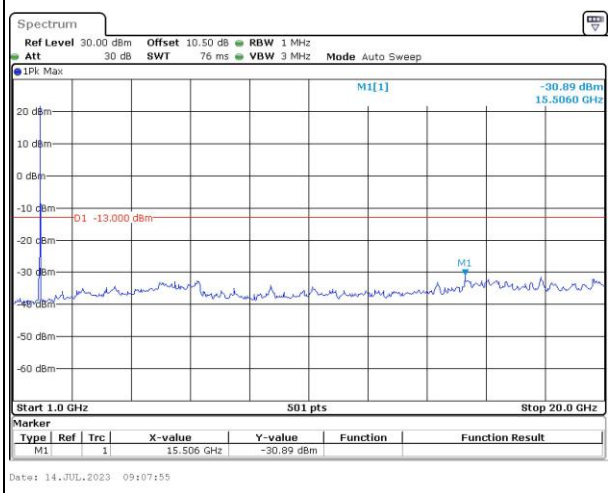
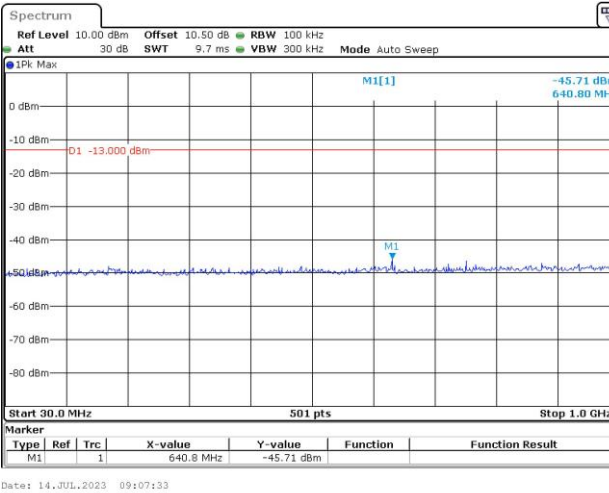
Channel

5MHz Bandwidth QPSK

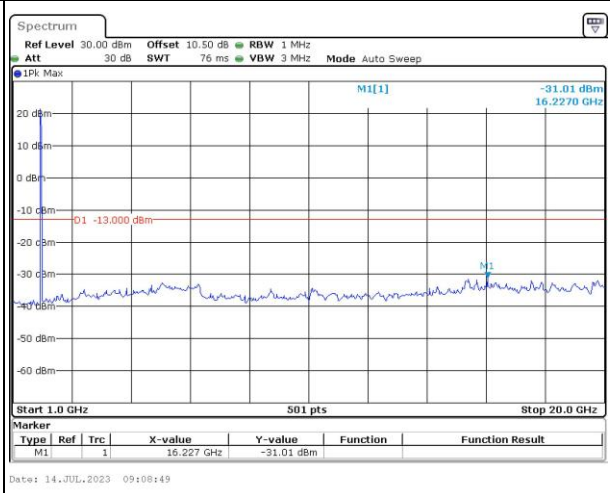
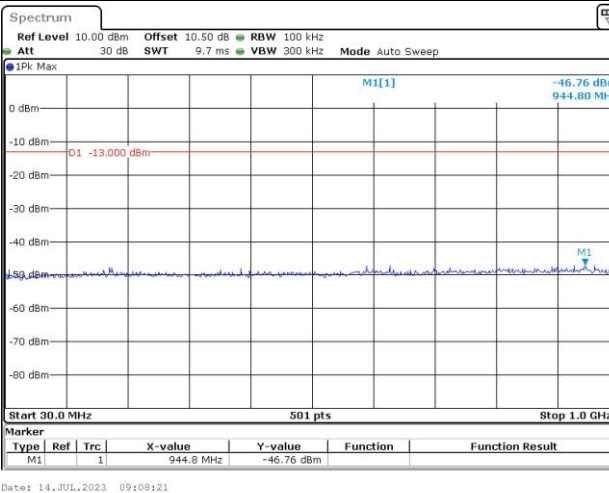
Lowest



Middle



Highest

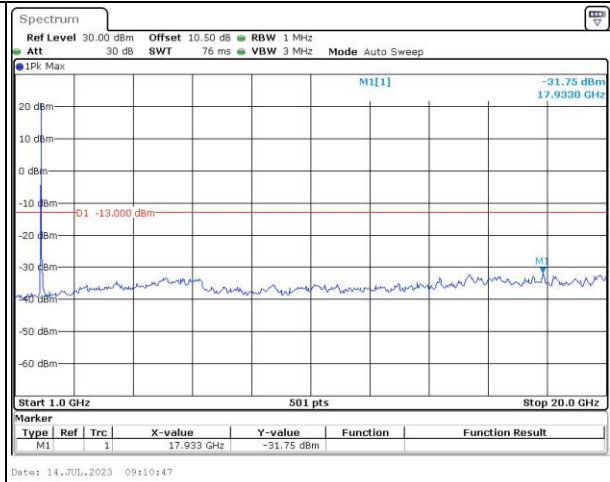
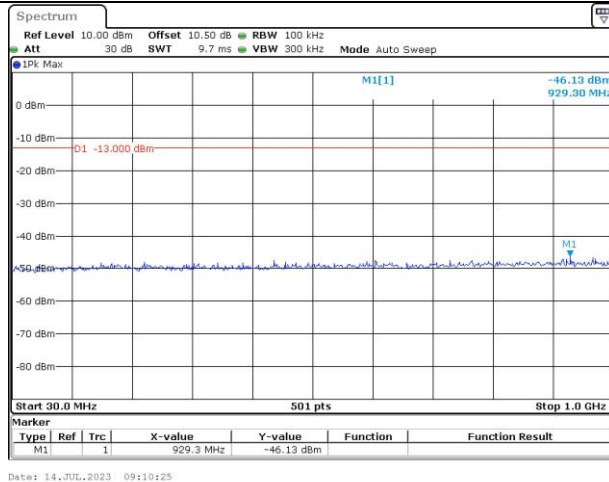


Spurious Emissions at Antenna Terminal

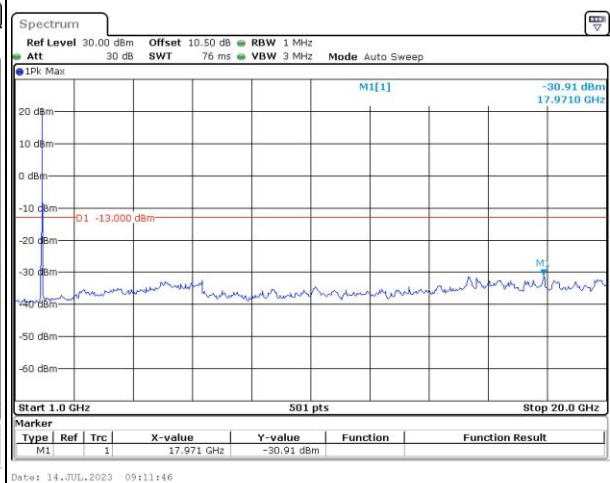
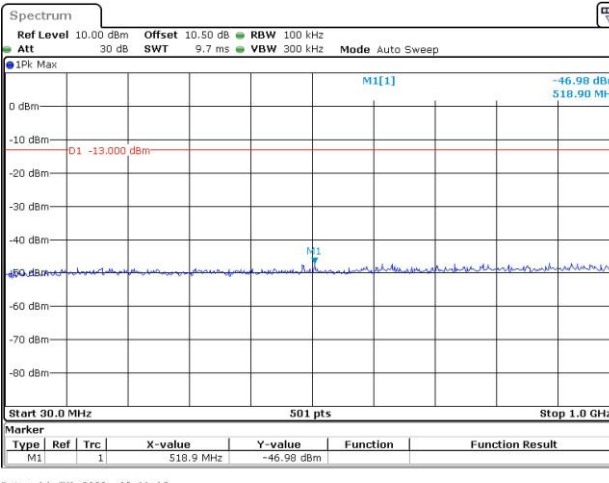
Channel

10MHz Bandwidth QPSK

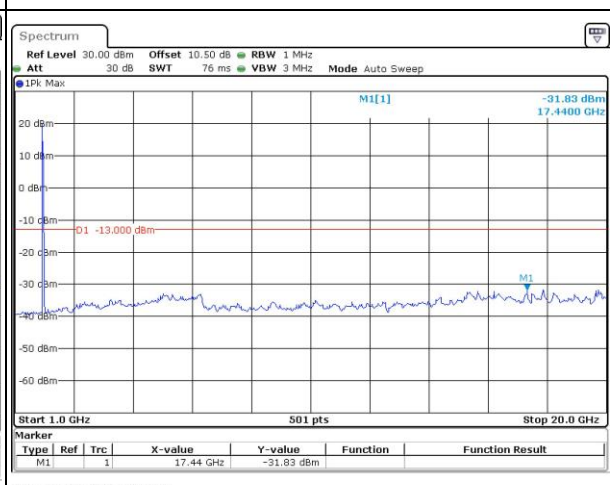
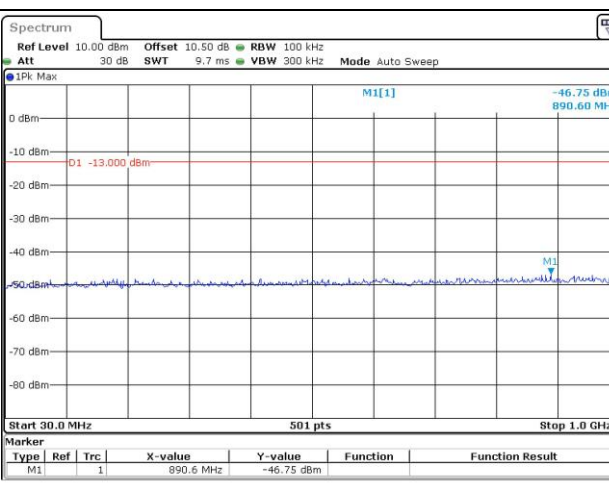
Lowest



Middle



Highest

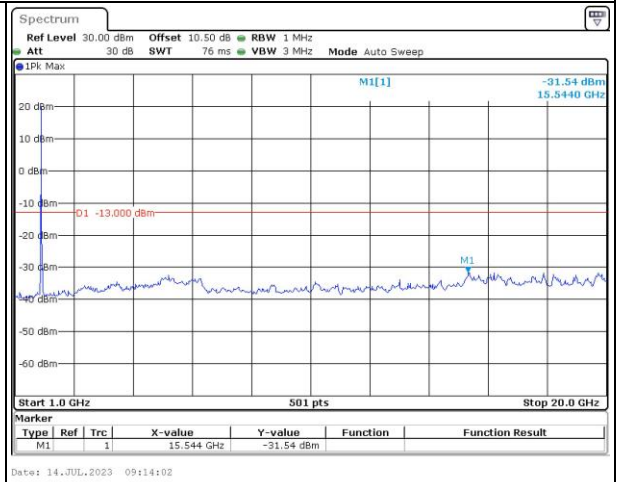
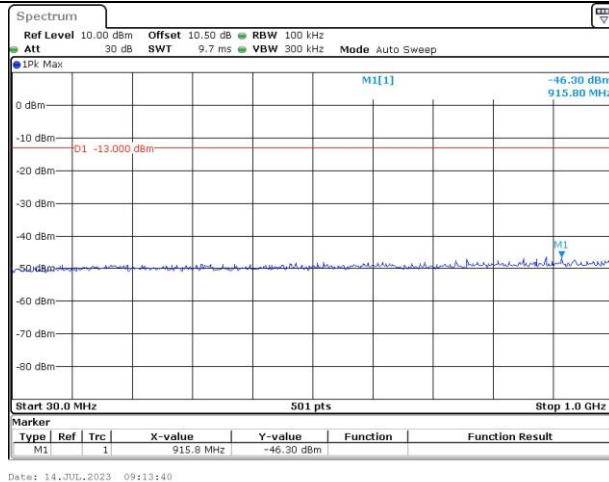


Spurious Emissions at Antenna Terminal

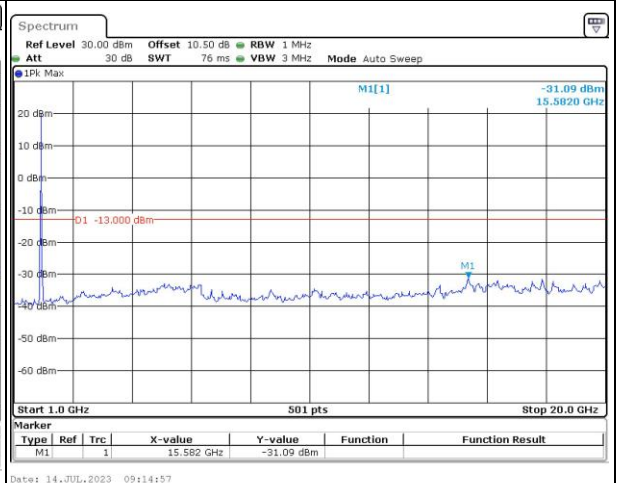
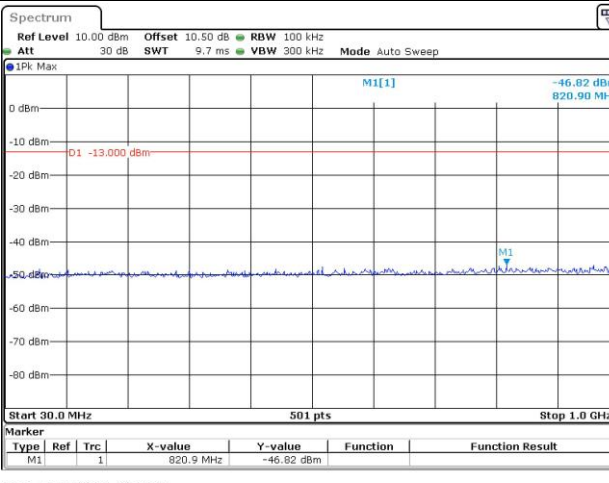
Channel

15MHz Bandwidth QPSK

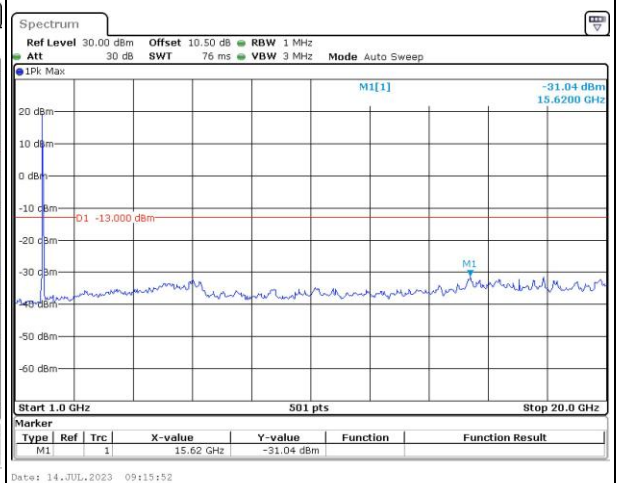
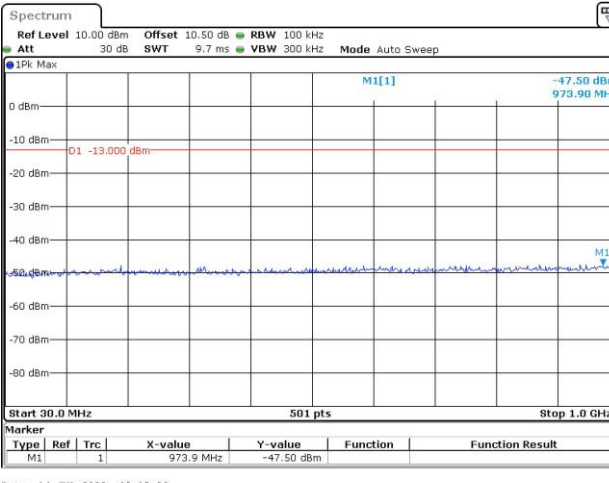
Lowest



Middle



Highest

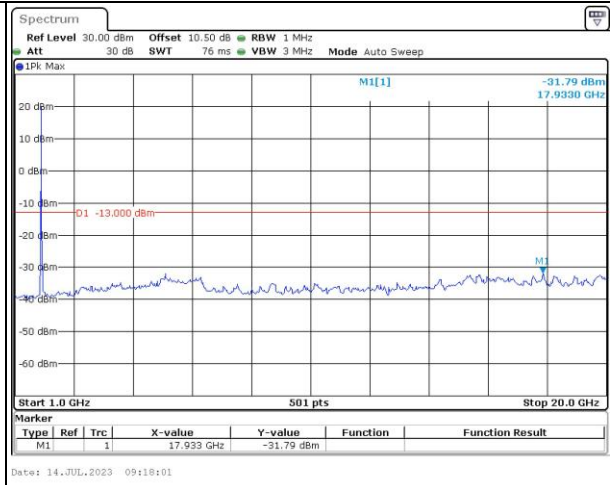
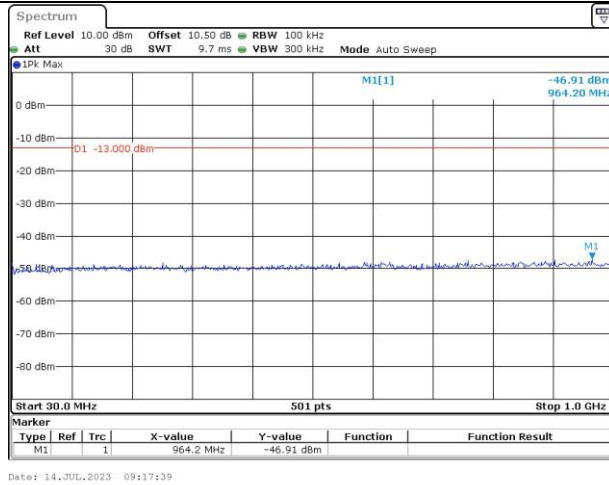


Spurious Emissions at Antenna Terminal

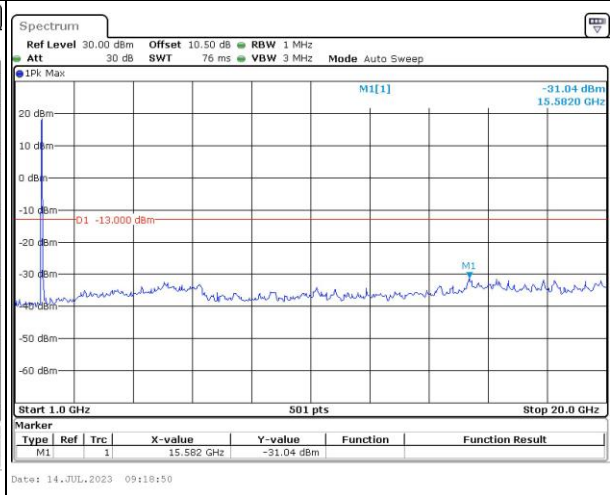
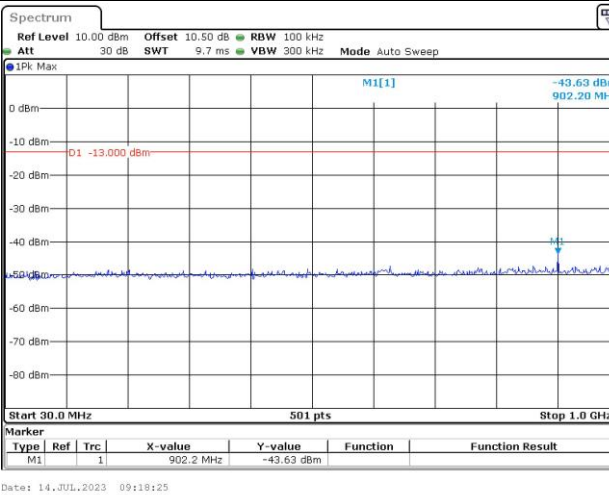
Channel

20MHz Bandwidth QPSK

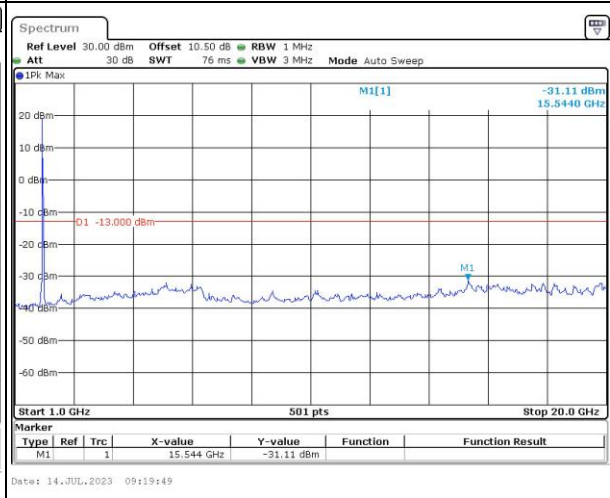
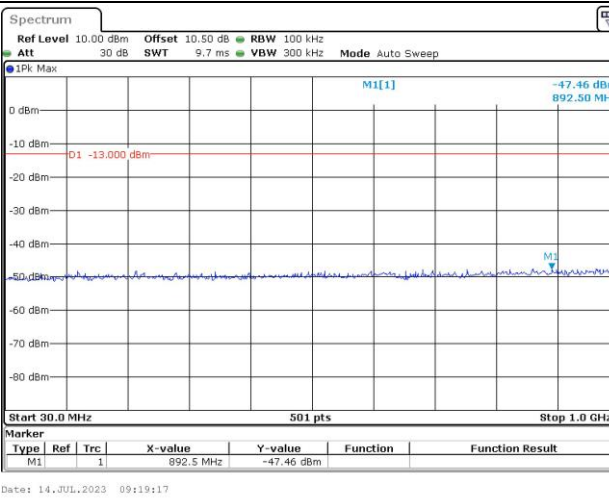
Lowest



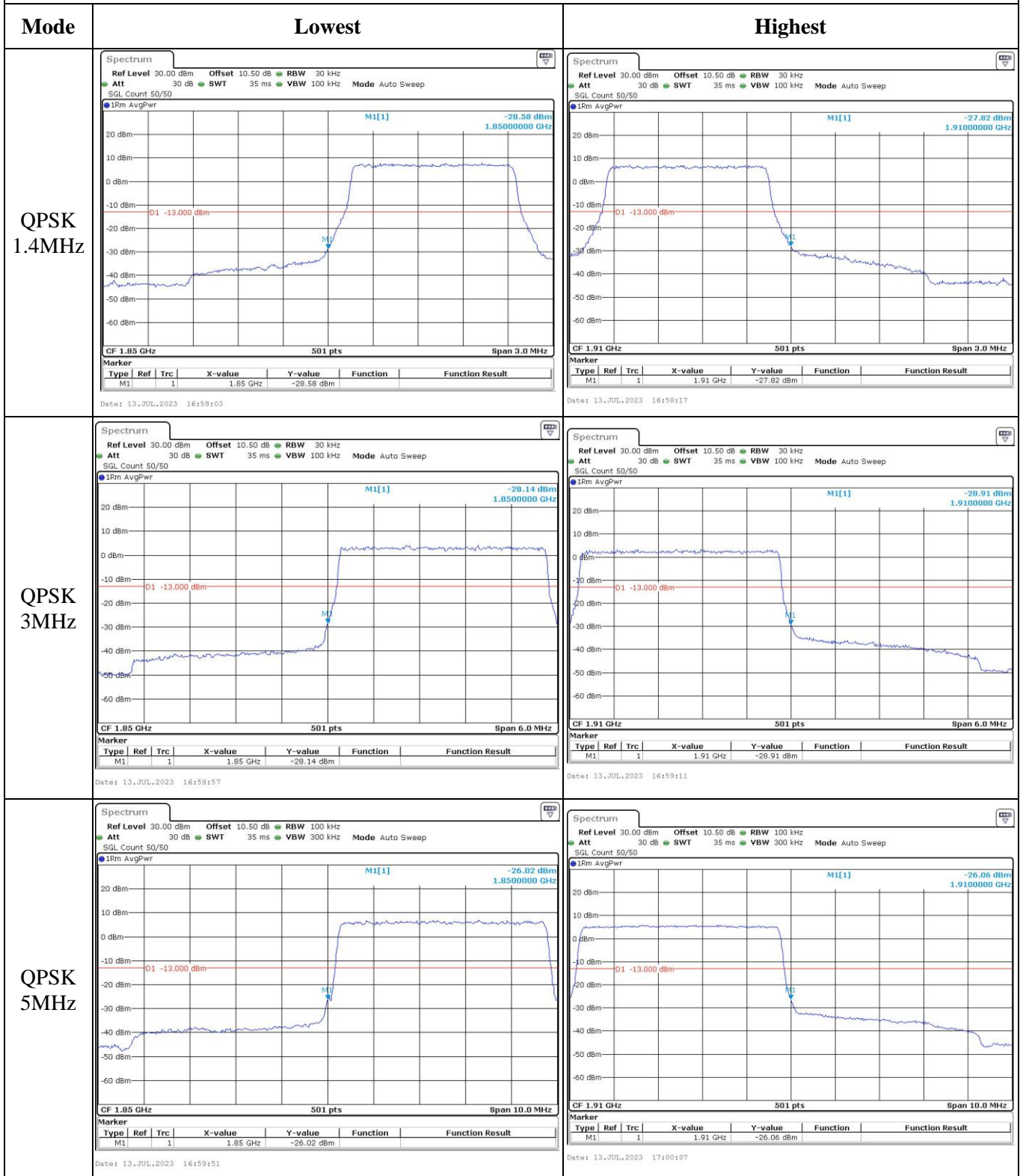
Middle



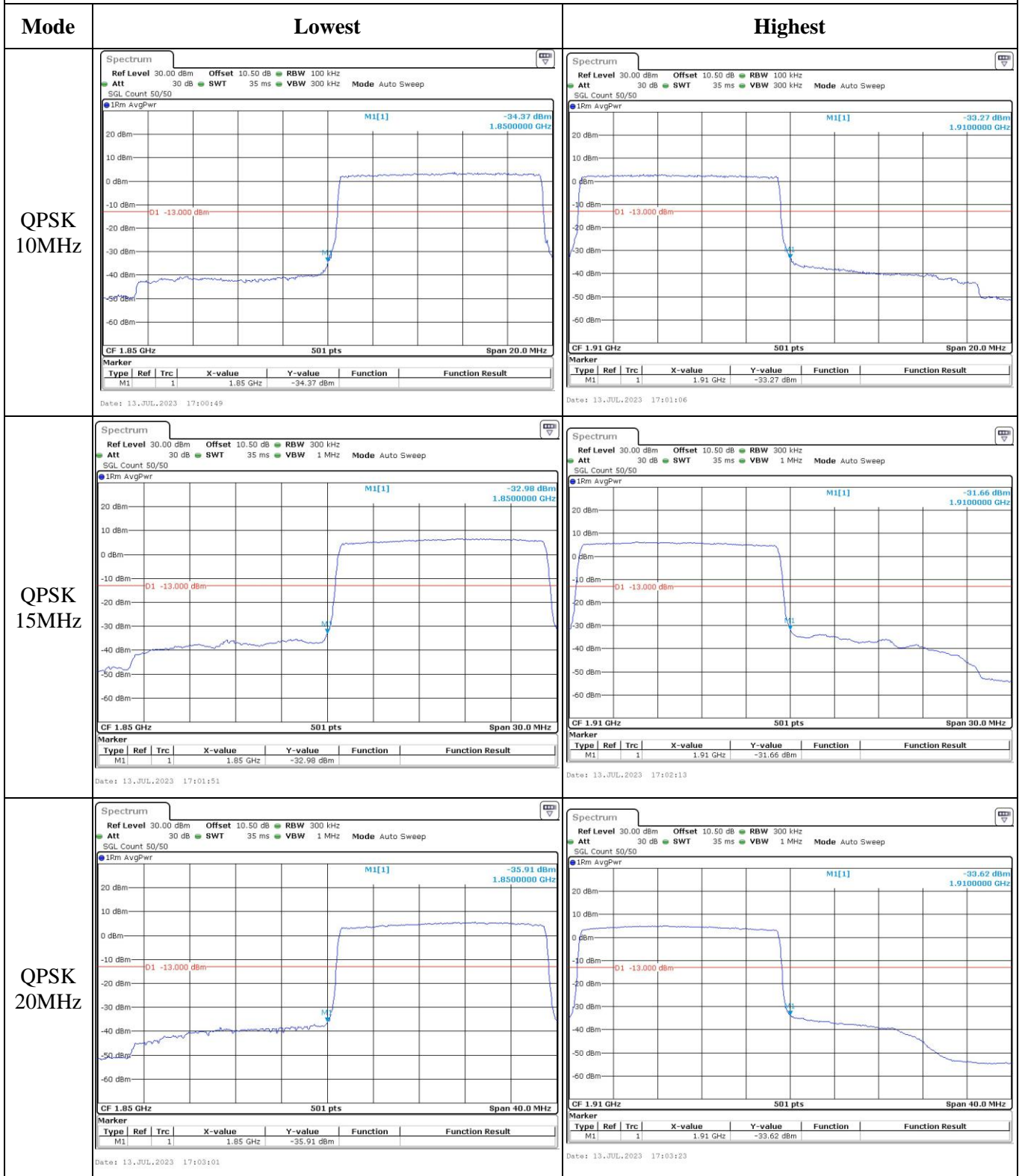
Highest



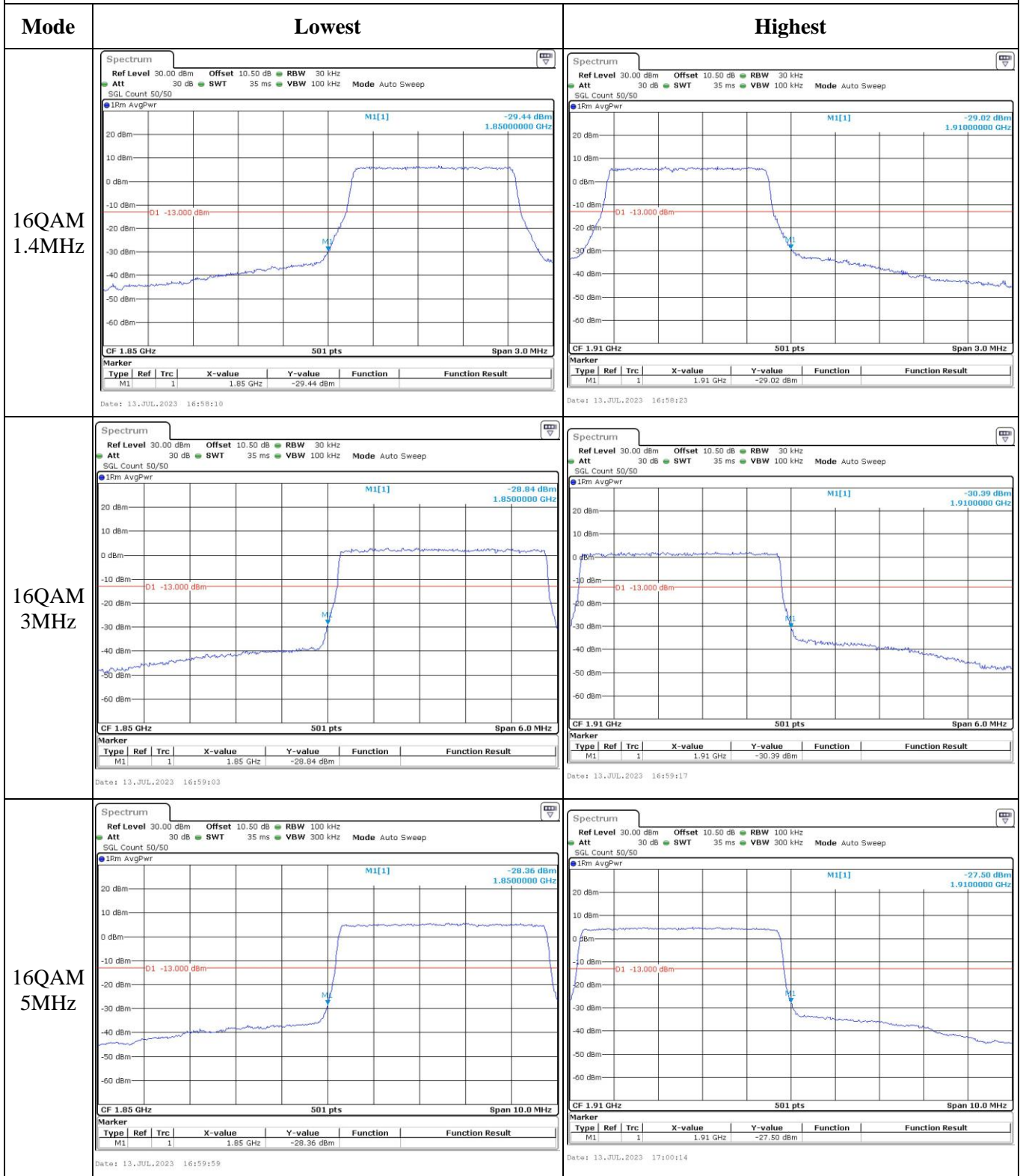
Out of band emission, Band Edge



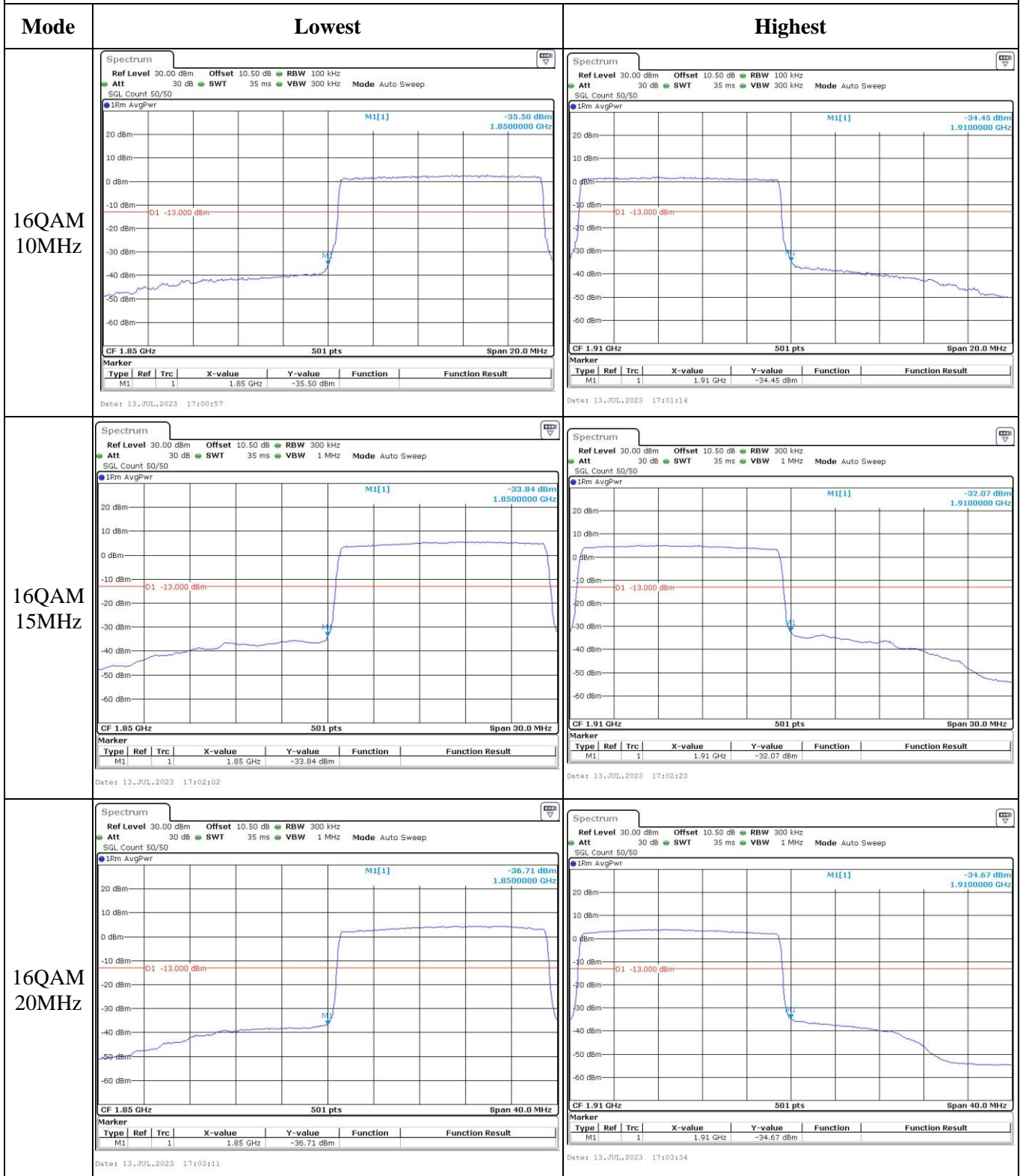
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.7 Antenna Port Test Data and Results for LTE Band 4

| | | | |
|----------------|-----------|--------------|---------------------|
| Serial Number: | 27YJ-1 | Test Date: | 2023/7/13~2023/7/15 |
| Test Site: | RF | Test Mode: | Transmitting |
| Tester: | Arthur Su | Test Result: | Pass |

Environmental Conditions:

| | | | | | |
|----------------------|-----------|------------------------------|-------|------------------------|-----------|
| Temperature: (°C) | 25.8~26.5 | Relative Humidity: (%) | 48~53 | ATM Pressure: (kPa) | 100.2~101 |
|----------------------|-----------|------------------------------|-------|------------------------|-----------|

Test Equipment List and Details:

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|--|-------------------|-----------------|------------------|----------------------|
| R&S | Spectrum Analyzer | FSV40 | 101943 | 2023/3/31 | 2024/3/30 |
| YINSAIGE | Coaxial Cable | SS402 | SJ0100001 | Each time | N/A |
| zhuoxiang | Coaxial Cable | SMA-178 | 211003 | Each time | N/A |
| R&S | Wideband Radio Communication Tester | CMW500 | 143458 | 2023/3/31 | 2024/3/30 |
| eastsheep | Coaxial Attenuator | 2W-SMA- JK-18G | 21060301 | Each time | N/A |
| Weinschel | Power Splitter | 1515 | RA914 | Each time | N/A |
| BACL | TEMP&HUMI Test Chamber | BTH-150-40 | 30174 | 2023/3/31 | 2024/3/30 |
| UNI-T | Multimeter | UT39A+ | C210582554 | 2022/9/29 | 2023/9/28 |
| ZHAOXIN | DC Power Supply | RXN-6010D | 21R6010D0912386 | N/A | N/A |

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency For Each Mode:

| Operation Bandwidth | Lowest Frequency (MHz) | Middle Frequency (MHz) | Highest Frequency (MHz) |
|---------------------|------------------------|------------------------|-------------------------|
| 1.4MHz | 1710.7 | 1732.5 | 1754.3 |
| 3MHz | 1711.5 | 1732.5 | 1753.5 |
| 5MHz | 1712.5 | 1732.5 | 1752.5 |
| 10MHz | 1715 | 1732.5 | 1750 |
| 15MHz | 1717.5 | 1732.5 | 1747.5 |
| 20MHz | 1720 | 1732.5 | 1745 |

Test Data:**FCC §2.1046; § 27.50(d)(4)****RF Output Power:**

| Test Bandwidth & Modulation | Resource Block & RB offset | Conducted Average Output Power(dBm) | | | Maximum EIRP(dBm) | EIRP Limit(dBm) |
|-----------------------------|----------------------------|-------------------------------------|----------------|-----------------|-------------------|-----------------|
| | | Lowest Channel | Middle Channel | Highest Channel | | |
| 1.4MHz QPSK | RB1#0 | 23.41 | 23.52 | 23.74 | 27.54 | 30 |
| | RB1#3 | 23.66 | 23.68 | 23.74 | | |
| | RB1#5 | 23.59 | 23.55 | 23.72 | | |
| | RB3#0 | 23.48 | 23.73 | 23.44 | | |
| | RB3#3 | 23.48 | 23.59 | 23.49 | | |
| | RB6#0 | 22.52 | 22.56 | 22.52 | | |
| 1.4MHz 16QAM | RB1#0 | 23.02 | 22.76 | 22.61 | 27.01 | 30 |
| | RB1#3 | 23.21 | 22.5 | 22.83 | | |
| | RB1#5 | 23.16 | 22.37 | 22.68 | | |
| | RB3#0 | 22.36 | 22.9 | 22.46 | | |
| | RB3#3 | 22.59 | 22.77 | 22.49 | | |
| | RB6#0 | 21.69 | 21.47 | 21.49 | | |
| 3MHz QPSK | RB1#0 | 23.37 | 23.52 | 23.5 | 27.32 | 30 |
| | RB1#8 | 23.44 | 23.4 | 23.46 | | |
| | RB1#14 | 23.52 | 23.48 | 23.47 | | |
| | RB6#0 | 22.49 | 22.66 | 22.38 | | |
| | RB6#9 | 22.65 | 22.54 | 22.52 | | |
| | RB15#0 | 22.51 | 22.53 | 22.38 | | |
| 3MHz 16QAM | RB1#0 | 22.32 | 22.98 | 22.46 | 26.84 | 30 |
| | RB1#8 | 22.38 | 23.04 | 22.63 | | |
| | RB1#14 | 22.44 | 22.96 | 22.84 | | |
| | RB6#0 | 21.24 | 21.84 | 21.49 | | |
| | RB6#9 | 21.42 | 21.76 | 21.45 | | |
| | RB15#0 | 21.73 | 21.47 | 21.36 | | |
| 5MHz QPSK | RB1#0 | 23.38 | 23.4 | 23.65 | 27.45 | 30 |
| | RB1#13 | 23.61 | 23.32 | 23.22 | | |
| | RB1#24 | 23.45 | 23.28 | 23.47 | | |
| | RB15#0 | 22.46 | 22.6 | 22.47 | | |
| | RB15#10 | 22.63 | 22.48 | 22.54 | | |
| | RB25#0 | 22.65 | 22.49 | 22.42 | | |
| 5MHz 16QAM | RB1#0 | 22.08 | 21.93 | 23.22 | 27.07 | 30 |
| | RB1#13 | 22.36 | 22.62 | 23.27 | | |
| | RB1#24 | 22.42 | 22.15 | 23.06 | | |
| | RB15#0 | 21.38 | 21.71 | 21.32 | | |
| | RB15#10 | 21.57 | 21.56 | 21.39 | | |
| | RB25#0 | 21.55 | 21.51 | 21.62 | | |
| 10MHz QPSK | RB1#0 | 23.34 | 23.49 | 23.67 | 27.63 | 30 |
| | RB1#25 | 23.83 | 23.4 | 23.49 | | |
| | RB1#49 | 23.46 | 23.28 | 23.47 | | |

| | | | | | | |
|-------------|---------|-------|-------|-------|-------|----|
| | RB25#0 | 22.65 | 22.67 | 22.57 | | |
| | RB25#25 | 22.59 | 22.41 | 22.41 | | |
| | RB50#0 | 22.61 | 22.44 | 22.56 | | |
| 10MHz 16QAM | RB1#0 | 22.28 | 23.02 | 22.98 | 27.55 | 30 |
| | RB1#25 | 22.57 | 23.75 | 23.12 | | |
| | RB1#49 | 22.27 | 22.91 | 23.35 | | |
| | RB25#0 | 21.85 | 21.7 | 21.62 | | |
| | RB25#25 | 21.92 | 21.51 | 21.31 | | |
| | RB50#0 | 21.61 | 21.5 | 21.57 | | |
| 15MHz QPSK | RB1#0 | 23.36 | 23.35 | 23.74 | 27.54 | 30 |
| | RB1#38 | 23.36 | 23.24 | 23.42 | | |
| | RB1#74 | 23.39 | 23.19 | 23.33 | | |
| | RB36#0 | 22.57 | 22.61 | 22.56 | | |
| | RB36#39 | 22.4 | 22.32 | 22.42 | | |
| | RB75#0 | 22.51 | 22.34 | 22.47 | | |
| 15MHz 16QAM | RB1#0 | 22.24 | 22.86 | 23.11 | 27.41 | 30 |
| | RB1#38 | 22.4 | 23.61 | 22.81 | | |
| | RB1#74 | 22.18 | 22.81 | 23.09 | | |
| | RB36#0 | 21.51 | 21.57 | 21.54 | | |
| | RB36#39 | 21.44 | 21.28 | 21.51 | | |
| | RB75#0 | 21.53 | 21.3 | 21.56 | | |
| 20MHz QPSK | RB1#0 | 23.21 | 23.53 | 23.53 | 27.51 | 30 |
| | RB1#50 | 23.48 | 23.64 | 23.71 | | |
| | RB1#99 | 23.36 | 23.27 | 23.59 | | |
| | RB50#0 | 22.49 | 22.41 | 22.58 | | |
| | RB50#50 | 22.52 | 22.37 | 22.48 | | |
| | RB100#0 | 22.54 | 22.44 | 22.53 | | |
| 20MHz 16QAM | RB1#0 | 23.2 | 22.74 | 22.61 | 27.53 | 30 |
| | RB1#50 | 23.59 | 23.26 | 22.66 | | |
| | RB1#99 | 23.73 | 22.24 | 22.34 | | |
| | RB50#0 | 21.47 | 21.43 | 21.62 | | |
| | RB50#50 | 21.54 | 21.41 | 21.55 | | |
| | RB100#0 | 21.44 | 21.41 | 21.52 | | |

Note: EIRP=Conducted Power(dBm) - Lc(dB) + Gr(dBi)

Result:

Pass

Peak-to-average Ratio(PAR)

| Test Bandwidth & Modulation | Resource Block & RB offset | Peak-to-average Ratio(dB) | | | Limit (dB) |
|-----------------------------|----------------------------|---------------------------|----------------|-----------------|-------------|
| | | Lowest Channel | Middle Channel | Highest Channel | |
| 20MHz QPSK | RB1#0 | 5.97 | 5.13 | 5.77 | 13 |
| | RB100#0 | 5.3 | 5.28 | 5.3 | 13 |
| 20MHz 16QAM | RB1#0 | 6.38 | 6.9 | 6.29 | 13 |
| | RB100#0 | 6.32 | 6.32 | 6.12 | 13 |
| | | | | Result: | Pass |

| FCC §2.1049, §27.53:Occupied Bandwidth | | | | | | |
|---|------------------------------|----------------|--------------|--------------------------------|----------------|--------------|
| Operation Mode | 99% Occupied Bandwidth (MHz) | | | 26 dB Occupied Bandwidth (MHz) | | |
| | Low Channel | Middle channel | High Channel | Low Channel | Middle Channel | High Channel |
| 1.4MHz QPSK | 1.102 | 1.108 | 1.102 | 1.32 | 1.29 | 1.308 |
| 1.4MHz 16QAM | 1.096 | 1.102 | 1.102 | 1.296 | 1.302 | 1.326 |
| 3MHz QPSK | 2.683 | 2.695 | 2.695 | 2.952 | 2.94 | 2.928 |
| 3MHz 16QAM | 2.683 | 2.695 | 2.683 | 2.94 | 2.952 | 2.952 |
| 5MHz QPSK | 4.491 | 4.531 | 4.511 | 5.02 | 5.04 | 5.02 |
| 5MHz 16QAM | 4.511 | 4.491 | 4.511 | 5.02 | 5 | 5.04 |
| 10MHz QPSK | 8.942 | 8.942 | 8.942 | 9.8 | 9.72 | 9.76 |
| 10MHz 16QAM | 8.942 | 8.942 | 8.942 | 9.68 | 9.76 | 9.72 |
| 15MHz QPSK | 13.413 | 13.413 | 13.413 | 14.64 | 14.88 | 14.82 |
| 15MHz 16QAM | 13.473 | 13.413 | 13.413 | 14.76 | 14.7 | 14.7 |
| 20MHz QPSK | 17.804 | 17.884 | 17.884 | 19.28 | 19.44 | 19.2 |
| 20MHz 16QAM | 17.884 | 17.884 | 17.964 | 19.44 | 19.36 | 19.36 |

Note: The test plots please refer to the Plots of Occupied Bandwidth

| FCC §2.1051, §27.53:Spurious Emissions at Antenna Terminal | |
|---|--|
| Result: | Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal. |

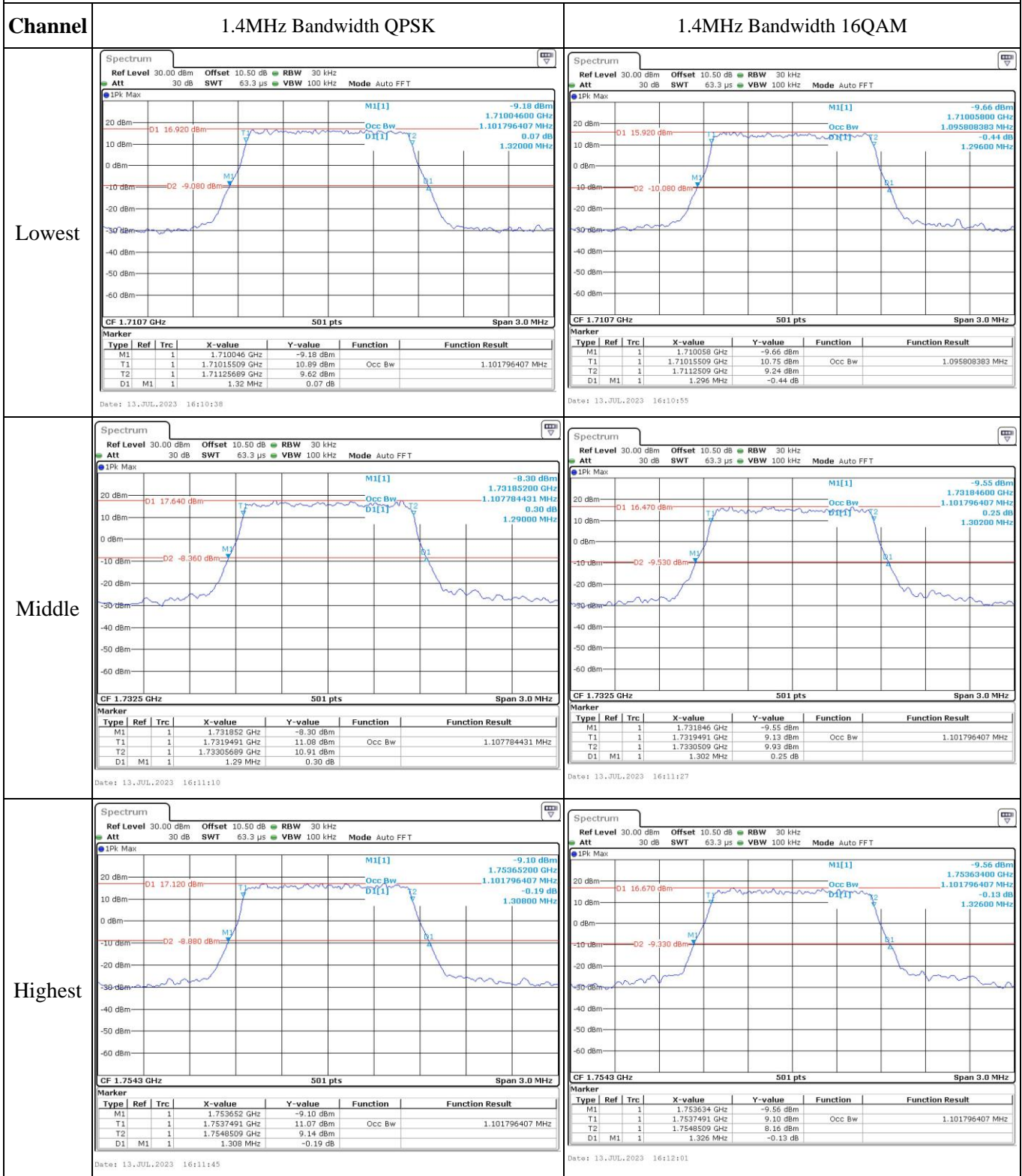
| FCC §2.1051, §27.53:Out of band emission, Band Edge | |
|--|---|
| Result: | Pass, Please refer to the test plots of Out of band emission, Band Edge. |

| FCC §2.1055, §27.54: Frequency Stability | | | | | | |
|---|------------------|--|------------------|---------|------------------|-------------|
| Test Mode: | 20M QPSK | Test Channel: Lowest for Lower Edge,Highest for Upper Edge | | | | |
| Test Item | Temperature (°C) | Voltage (V _{DC}) | Lower Edge (MHz) | | Upper Edge (MHz) | |
| | | | Result | Limit | Result | Limit |
| Frequency Stability vs. Temperature | -30 | 3.8 | 1710.021 | 1710.00 | 1754.981 | 1755 |
| | -20 | 3.8 | 1710.016 | 1710.00 | 1754.980 | 1755 |
| | -10 | 3.8 | 1710.016 | 1710.00 | 1754.986 | 1755 |
| | 0 | 3.8 | 1710.012 | 1710.00 | 1754.980 | 1755 |
| | 10 | 3.8 | 1710.020 | 1710.00 | 1754.979 | 1755 |
| | 20 | 3.8 | 1710.023 | 1710.00 | 1754.978 | 1755 |
| | 30 | 3.8 | 1710.020 | 1710.00 | 1754.980 | 1755 |
| | 40 | 3.8 | 1710.011 | 1710.00 | 1754.989 | 1755 |
| Frequency Stability vs. Voltage | 50 | 3.8 | 1710.011 | 1710.00 | 1754.982 | 1755 |
| | 20 | 3.5 | 1710.013 | 1710.00 | 1754.983 | 1755 |
| | 20 | 4.4 | 1710.023 | 1710.00 | 1754.983 | 1755 |
| | | | | | Result: | Pass |

| Test Mode: | 20M 16QAM | Test Channel: Lowest for Lower Edge,Highest for Upper Edge | | | | |
|---|---------------------|--|---------------------|---------|---------------------|-------------|
| Test Item | Temperature (°C) | Voltage (V _{DC}) | Lower Edge (MHz) | | Upper Edge (MHz) | |
| | | | Result | Limit | Result | Limit |
| Frequency Stability vs. Temperature | -30 | 3.8 | 1710.011 | 1710.00 | 1754.978 | 1755 |
| | -20 | 3.8 | 1710.011 | 1710.00 | 1754.988 | 1755 |
| | -10 | 3.8 | 1710.019 | 1710.00 | 1754.989 | 1755 |
| | 0 | 3.8 | 1710.018 | 1710.00 | 1754.980 | 1755 |
| | 10 | 3.8 | 1710.018 | 1710.00 | 1754.988 | 1755 |
| | 20 | 3.8 | 1710.019 | 1710.00 | 1754.979 | 1755 |
| | 30 | 3.8 | 1710.022 | 1710.00 | 1754.979 | 1755 |
| | 40 | 3.8 | 1710.017 | 1710.00 | 1754.984 | 1755 |
| | 50 | 3.8 | 1710.022 | 1710.00 | 1754.986 | 1755 |
| Frequency Stability vs. Voltage | 20 | 3.5 | 1710.018 | 1710.00 | 1754.979 | 1755 |
| | 20 | 4.4 | 1710.018 | 1710.00 | 1754.985 | 1755 |
| | | | | | Result: | Pass |

Test Plots(Note: The 10.5dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

Occupied Bandwidth



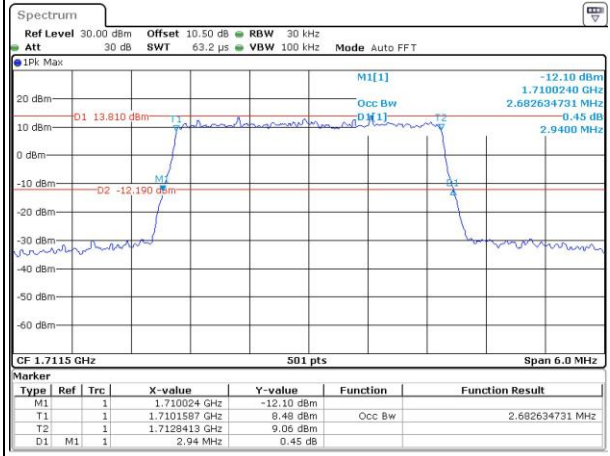
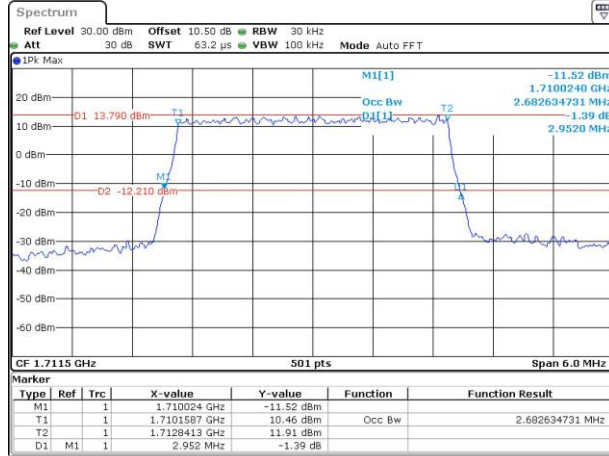
Occupied Bandwidth

Channel

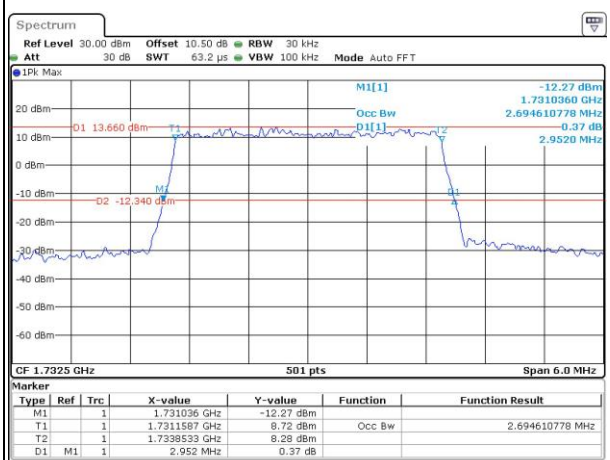
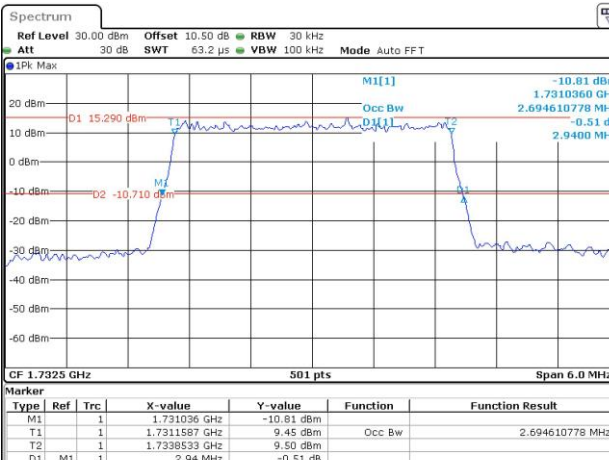
3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

Lowest



Middle



Highest

