

## Appendix A: DTS Bandwidth

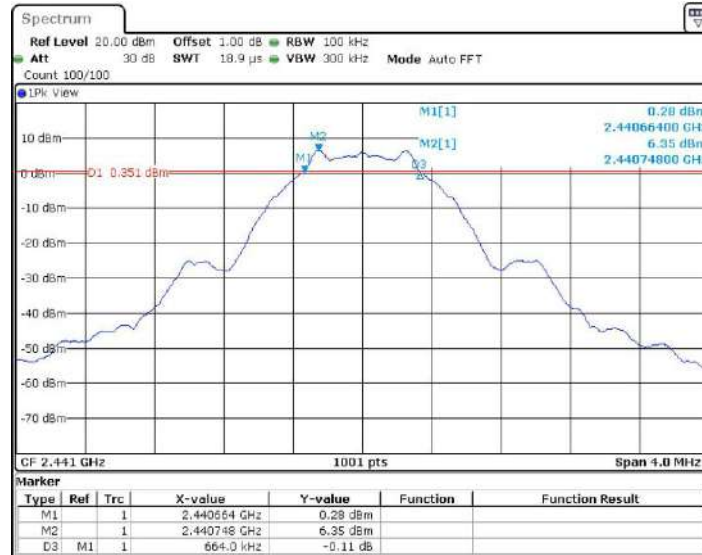
### Test Result

| TestMode   | Antenna | Channel | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|---------|--------------|----------|----------|------------|---------|
| GFSK_1Mbps | Ant1    | 2402    | 0.664        | 2401.664 | 2402.328 | 0.5        | PASS    |
|            |         | 2441    | 0.664        | 2440.664 | 2441.328 | 0.5        | PASS    |
|            |         | 2480    | 0.664        | 2479.664 | 2480.328 | 0.5        | PASS    |
| GFSK_2Mbps |         | 2404    | 1.176        | 2403.412 | 2404.588 | 0.5        | PASS    |
|            |         | 2440    | 1.176        | 2439.412 | 2440.588 | 0.5        | PASS    |
|            |         | 2478    | 1.176        | 2477.412 | 2478.588 | 0.5        | PASS    |
| GFSK_4Mbps |         | 2405    | 1.152        | 2403.936 | 2405.088 | 0.5        | PASS    |
|            |         | 2441    | 1.152        | 2439.936 | 2441.088 | 0.5        | PASS    |
|            |         | 2477    | 1.152        | 2475.936 | 2477.088 | 0.5        | PASS    |
| QPSK_2Mbps |         | 2402    | 1.090        | 2401.456 | 2402.546 | 0.5        | PASS    |
|            |         | 2441    | 1.092        | 2440.454 | 2441.546 | 0.5        | PASS    |
|            |         | 2480    | 1.092        | 2479.454 | 2480.546 | 0.5        | PASS    |
| QPSK_4Mbps |         | 2404    | 1.804        | 2403.000 | 2404.804 | 0.5        | PASS    |
|            |         | 2440    | 1.796        | 2439.000 | 2440.796 | 0.5        | PASS    |
|            |         | 2478    | 1.176        | 2477.412 | 2478.588 | 0.5        | PASS    |
| 8PSK_3Mbps |         | 2402    | 1.092        | 2401.452 | 2402.544 | 0.5        | PASS    |
|            |         | 2441    | 1.080        | 2440.452 | 2441.532 | 0.5        | PASS    |
|            |         | 2480    | 1.088        | 2479.450 | 2480.538 | 0.5        | PASS    |

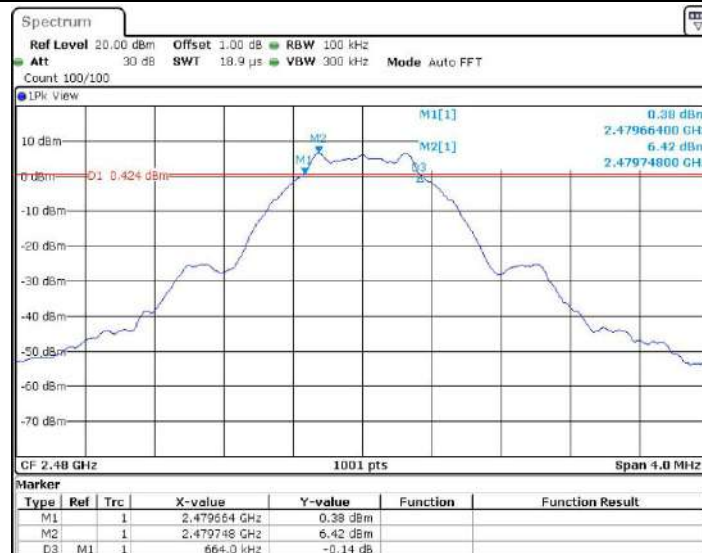
## Test Graphs



GFSK\_1Mbps\_Ant1\_2402



GFSK\_1Mbps\_Ant1\_2441



GFSK\_1Mbps\_Ant1\_2480



GFSK\_2Mbps\_Ant1\_2404



GFSK\_2Mbps\_Ant1\_2440



GFSK\_2Mbps\_Ant1\_2478



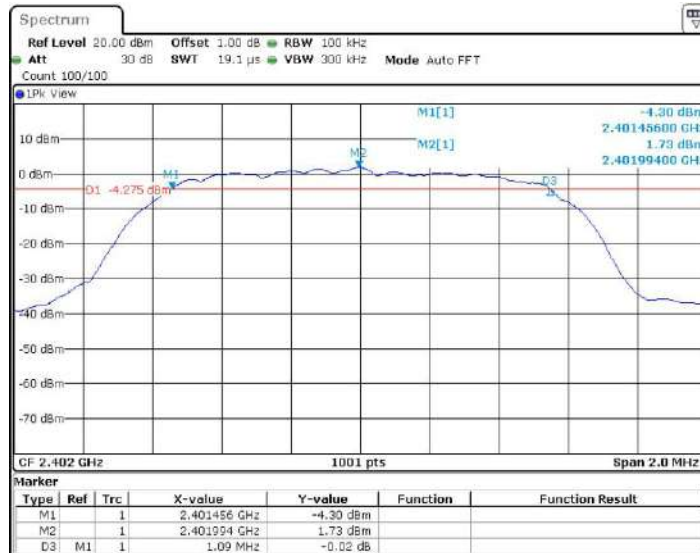
GFSK\_4Mbps\_Ant1\_2405



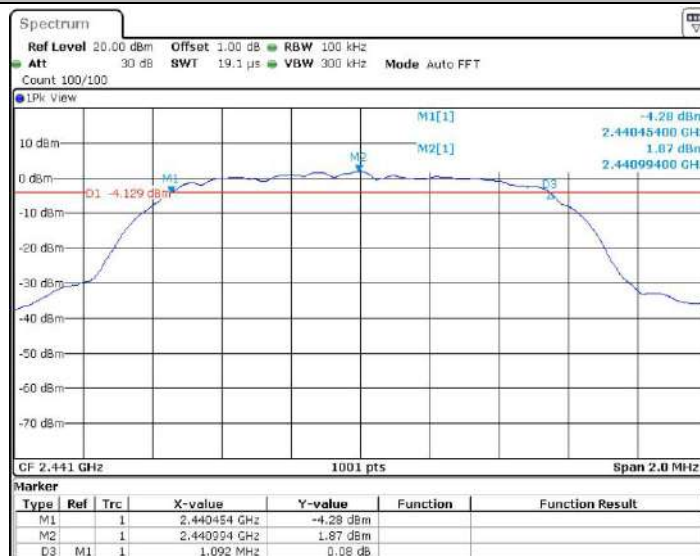
GFSK\_4Mbps\_Ant1\_2441



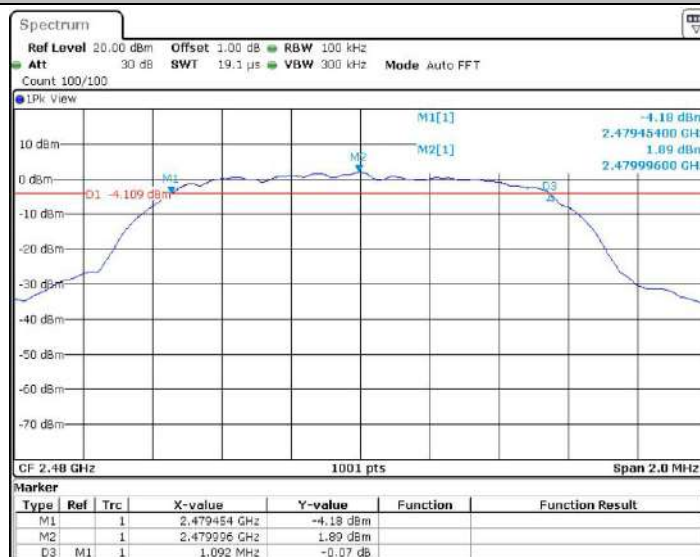
GFSK\_4Mbps\_Ant1\_2477



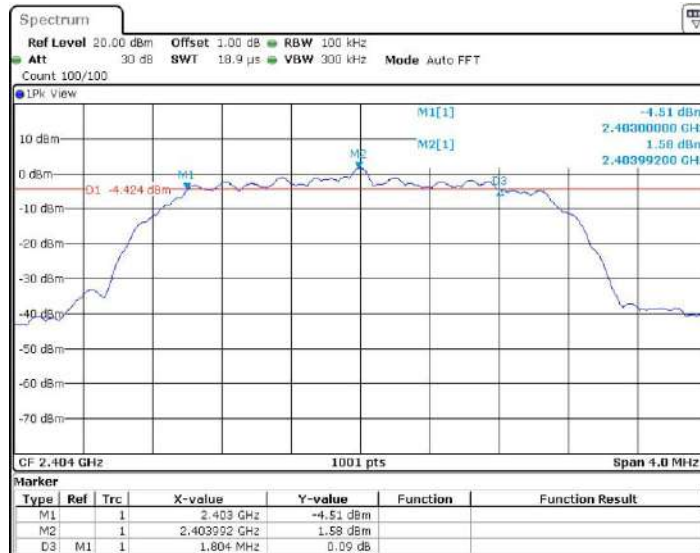
QPSK\_2Mbps\_Ant1\_2402



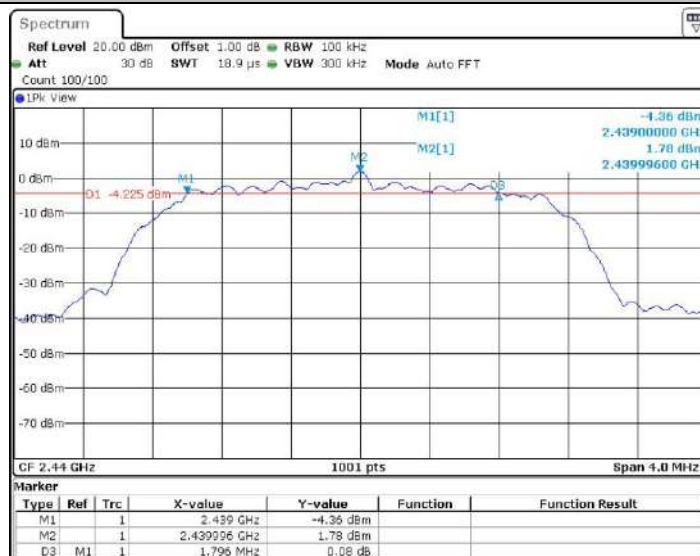
QPSK\_2Mbps\_Ant1\_2441



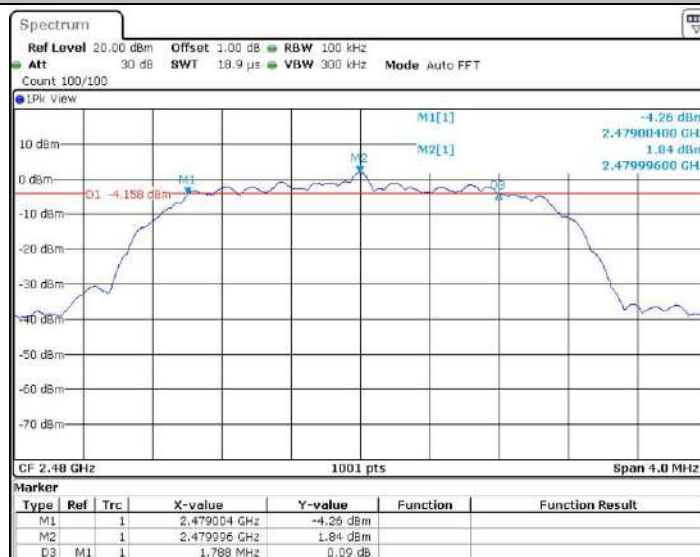
QPSK\_2Mbps\_Ant1\_2480



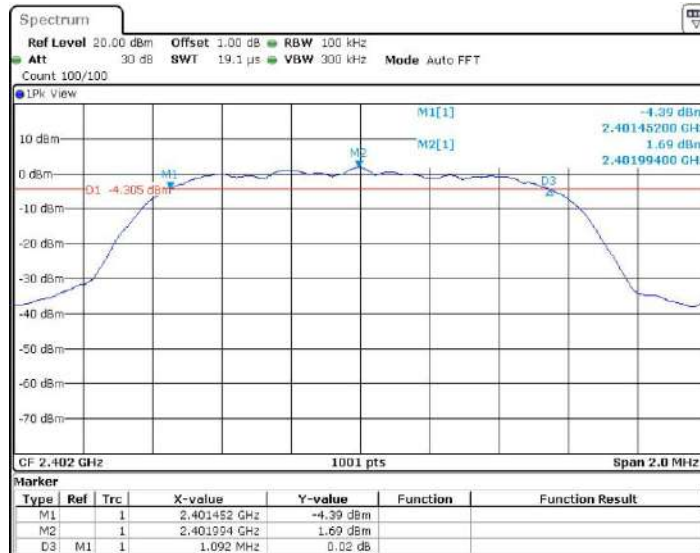
QPSK\_4Mbps\_Ant1\_2404



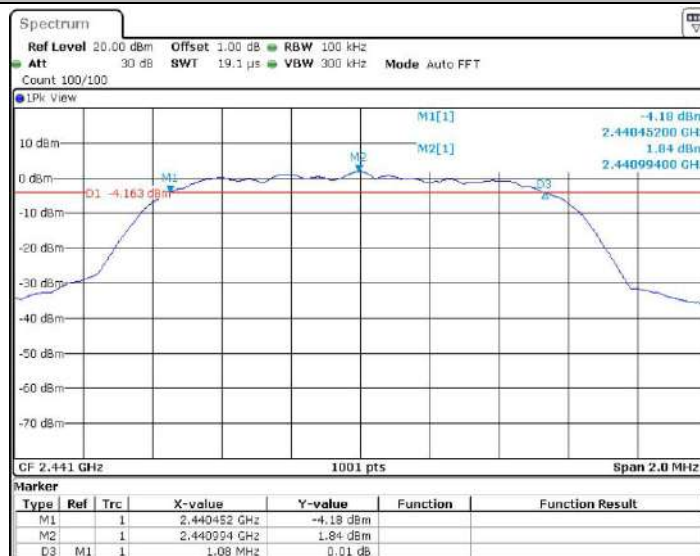
QPSK\_4Mbps\_Ant1\_2440



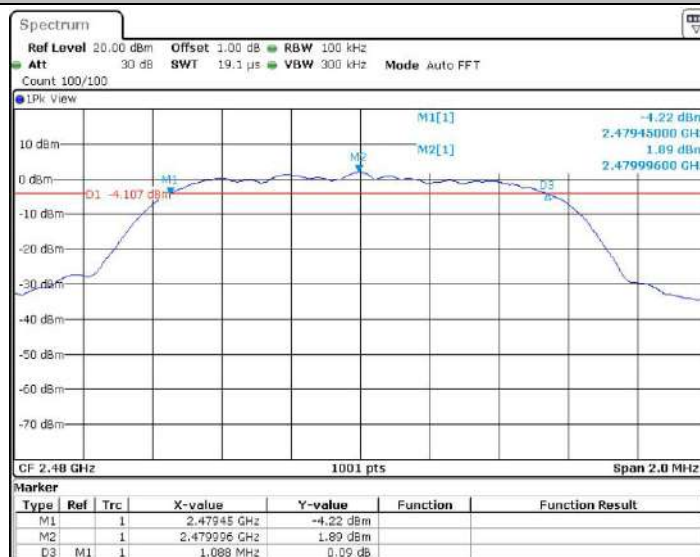
QPSK\_4Mbps\_Ant1\_2480



8PSK\_3Mbps\_Ant1\_2402



8PSK\_3Mbps\_Ant1\_2441



8PSK\_3Mbps\_Ant1\_2480

## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode   | Antenna | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|---------|-----------|----------|----------|------------|---------|
| GFSK_1Mbps | Ant1    | 2402    | 1.027     | 2401.485 | 2402.511 | ---        | PASS    |
|            |         | 2441    | 1.027     | 2440.485 | 2441.511 | ---        | PASS    |
|            |         | 2480    | 1.027     | 2479.485 | 2480.511 | ---        | PASS    |
| GFSK_2Mbps |         | 2404    | 2.050     | 2402.981 | 2405.031 | ---        | PASS    |
|            |         | 2440    | 2.054     | 2438.977 | 2441.031 | ---        | PASS    |
|            |         | 2478    | 2.050     | 2476.981 | 2479.031 | ---        | PASS    |
| GFSK_4Mbps |         | 2405    | 4.068     | 2402.970 | 2407.038 | ---        | PASS    |
|            |         | 2441    | 4.068     | 2438.970 | 2443.038 | ---        | PASS    |
|            |         | 2477    | 4.068     | 2474.970 | 2479.038 | ---        | PASS    |
| QPSK_2Mbps |         | 2402    | 1.201     | 2401.397 | 2402.597 | ---        | PASS    |
|            |         | 2441    | 1.201     | 2440.397 | 2441.597 | ---        | PASS    |
|            |         | 2480    | 1.201     | 2479.397 | 2480.597 | ---        | PASS    |
| QPSK_4Mbps |         | 2404    | 2.398     | 2402.801 | 2405.199 | ---        | PASS    |
|            |         | 2440    | 2.398     | 2438.801 | 2441.199 | ---        | PASS    |
|            |         | 2478    | 2.05      | 2476.981 | 2479.031 | ---        | PASS    |
| 8PSK_3Mbps |         | 2402    | 1.207     | 2401.397 | 2402.603 | ---        | PASS    |
|            |         | 2441    | 1.209     | 2440.395 | 2441.603 | ---        | PASS    |
|            |         | 2480    | 1.211     | 2479.395 | 2480.605 | ---        | PASS    |

## Test Graphs



GFSK\_1Mbps\_Ant1\_2402



GFSK\_1Mbps\_Ant1\_2441



GFSK\_1Mbps\_Ant1\_2480



GFSK\_2Mbps\_Ant1\_2404



GFSK\_2Mbps\_Ant1\_2440



GFSK\_2Mbps\_Ant1\_2478



GFSK\_4Mbps\_Ant1\_2405



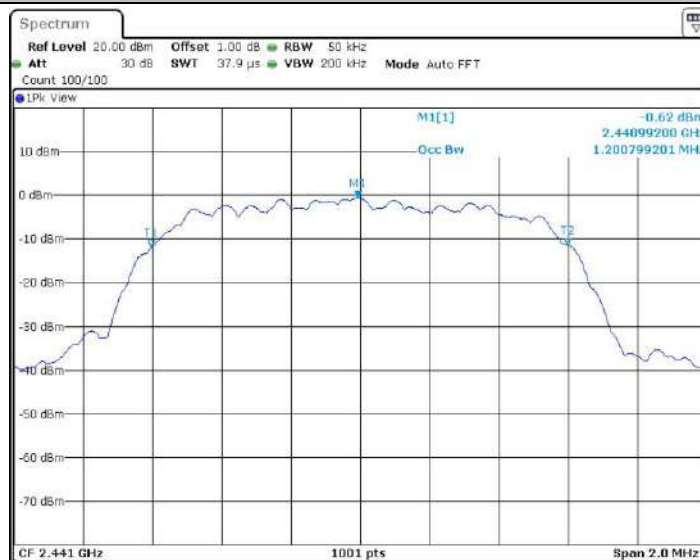
GFSK\_4Mbps\_Ant1\_2441



GFSK\_4Mbps\_Ant1\_2477



QPSK\_2Mbps\_Ant1\_2402



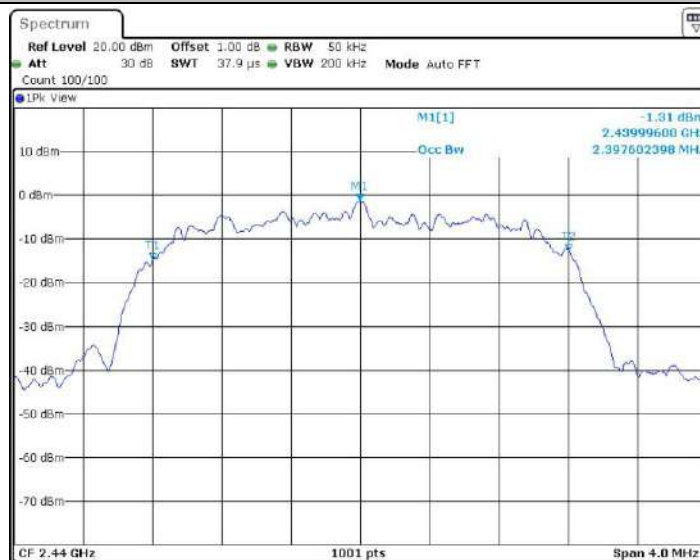
QPSK\_2Mbps\_Ant1\_2441



QPSK\_2Mbps\_Ant1\_2480



QPSK\_4Mbps\_Ant1\_2404



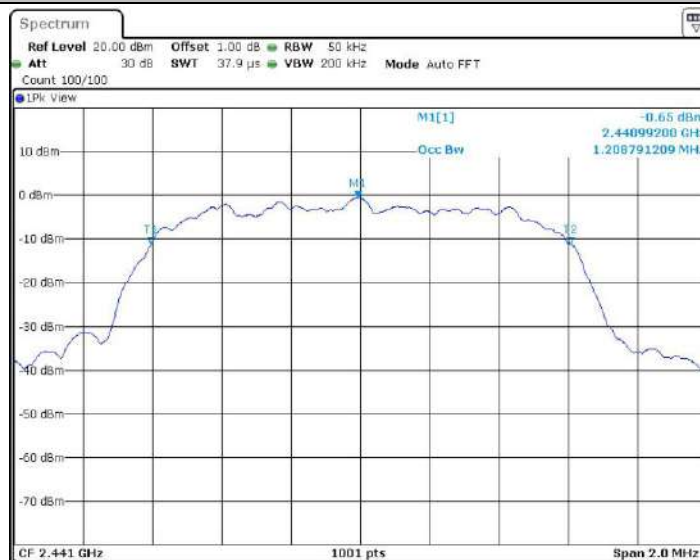
QPSK\_4Mbps\_Ant1\_2440



QPSK\_4Mbps\_Ant1\_2480



8PSK\_3Mbps\_Ant1\_2402



8PSK\_3Mbps\_Ant1\_2441



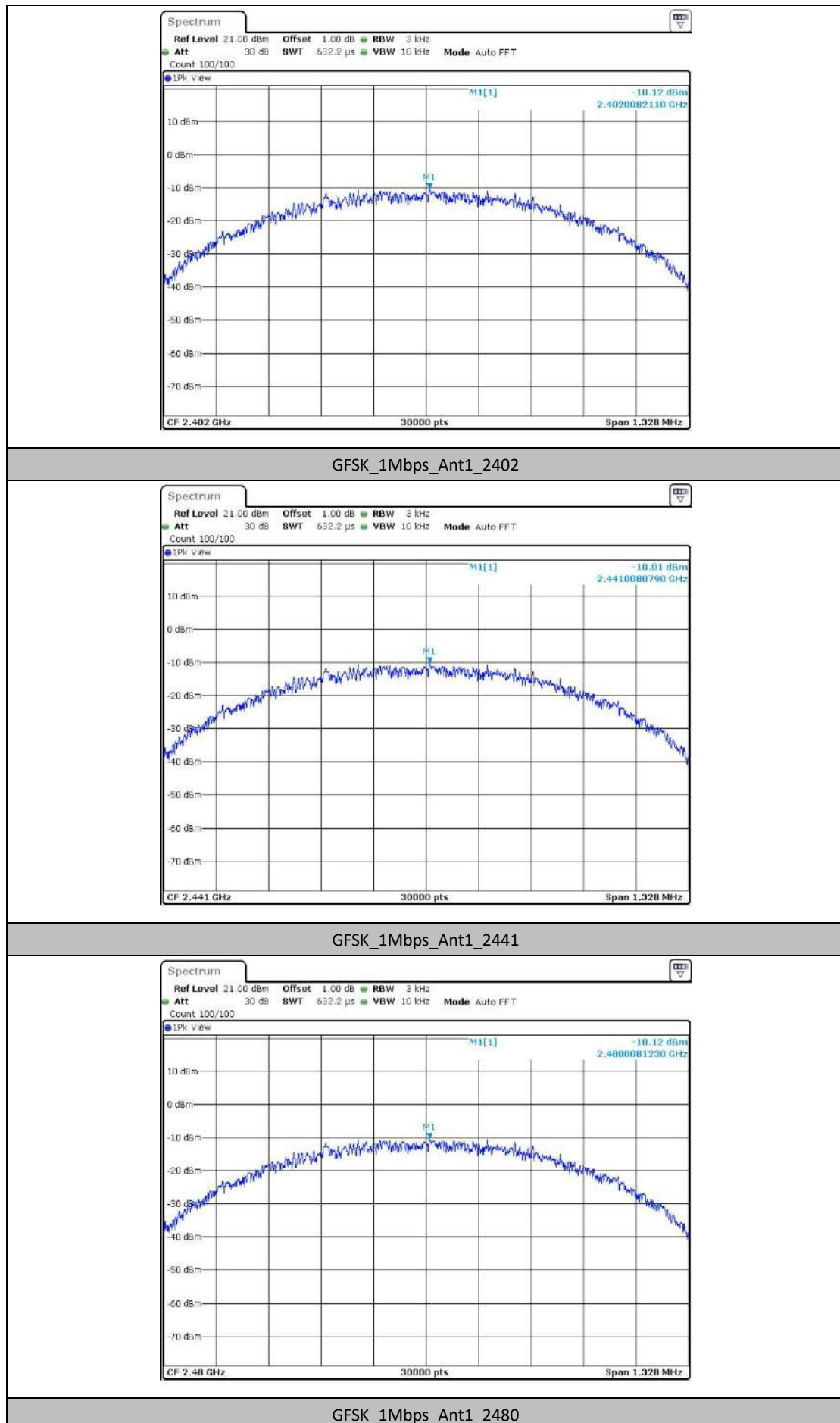
8PSK\_3Mbps\_Ant1\_2480

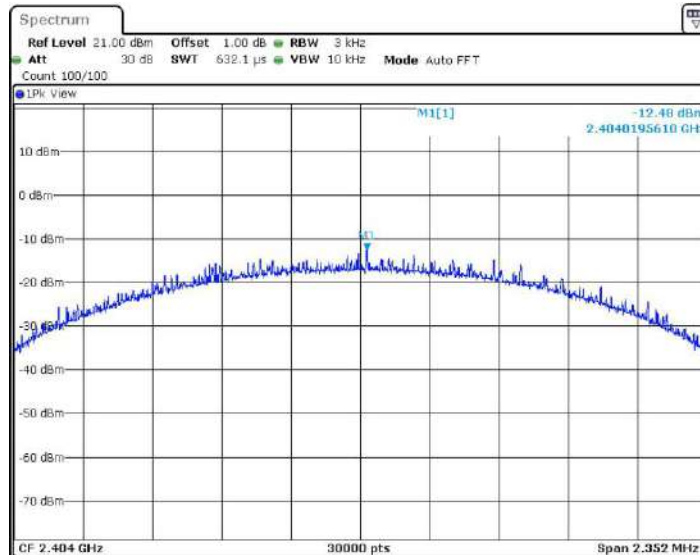
## Appendix C: Maximum power spectral density

### Test Result

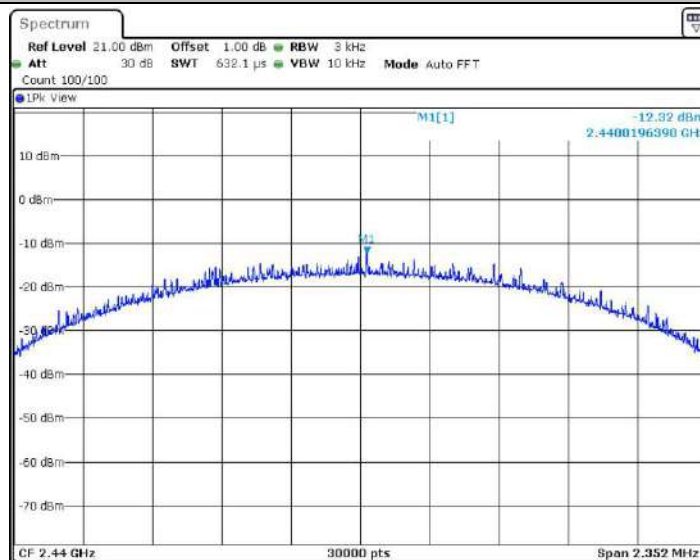
| TestMode   | Antenna | Channel | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|------------|---------|---------|------------------|-----------------|---------|
| GFSK_1Mbps | Ant1    | 2402    | -10.12           | <=8             | PASS    |
|            |         | 2441    | -10.01           | <=8             | PASS    |
|            |         | 2480    | -10.12           | <=8             | PASS    |
| GFSK_2Mbps |         | 2404    | -12.48           | <=8             | PASS    |
|            |         | 2440    | -12.32           | <=8             | PASS    |
|            |         | 2478    | -12.21           | <=8             | PASS    |
| GFSK_4Mbps |         | 2405    | -14.83           | <=8             | PASS    |
|            |         | 2441    | -14.66           | <=8             | PASS    |
|            |         | 2477    | -14.66           | <=8             | PASS    |
| QPSK_2Mbps |         | 2402    | -13.18           | <=8             | PASS    |
|            |         | 2441    | -12.98           | <=8             | PASS    |
|            |         | 2480    | -12.87           | <=8             | PASS    |
| QPSK_4Mbps |         | 2404    | -15.28           | <=8             | PASS    |
|            |         | 2440    | -15.1            | <=8             | PASS    |
|            |         | 2478    | -12.21           | <=8             | PASS    |
| 8PSK_3Mbps |         | 2402    | -13.19           | <=8             | PASS    |
|            |         | 2441    | -13.07           | <=8             | PASS    |
|            |         | 2480    | -12.99           | <=8             | PASS    |

## Test Graphs

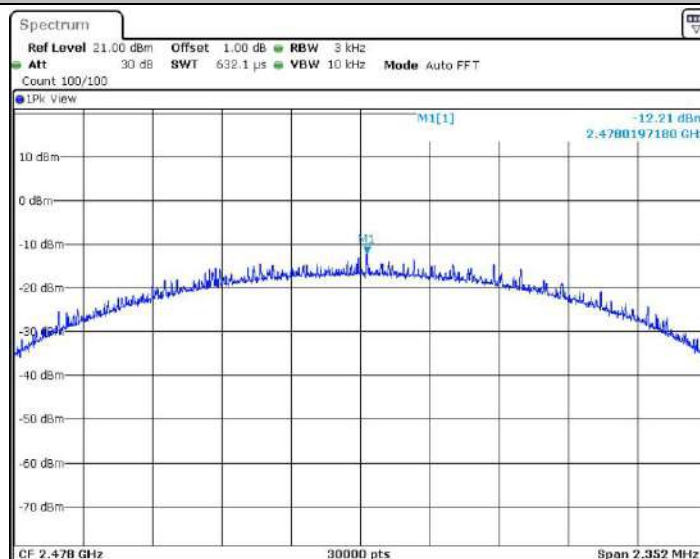




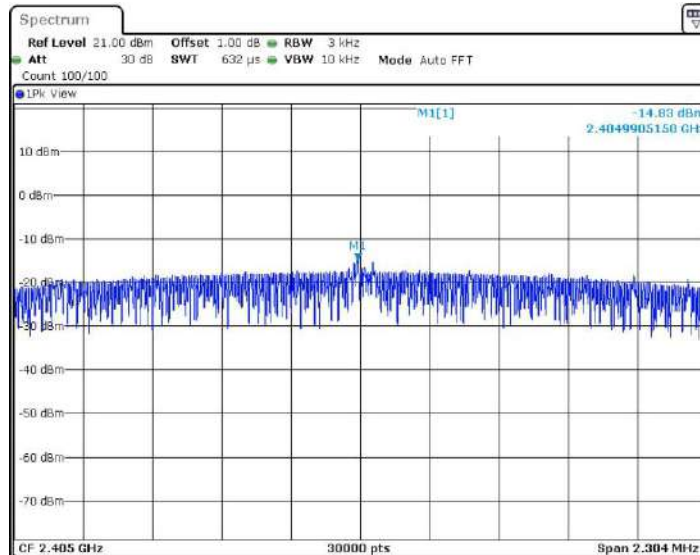
GFSK\_2Mbps\_Ant1\_2404



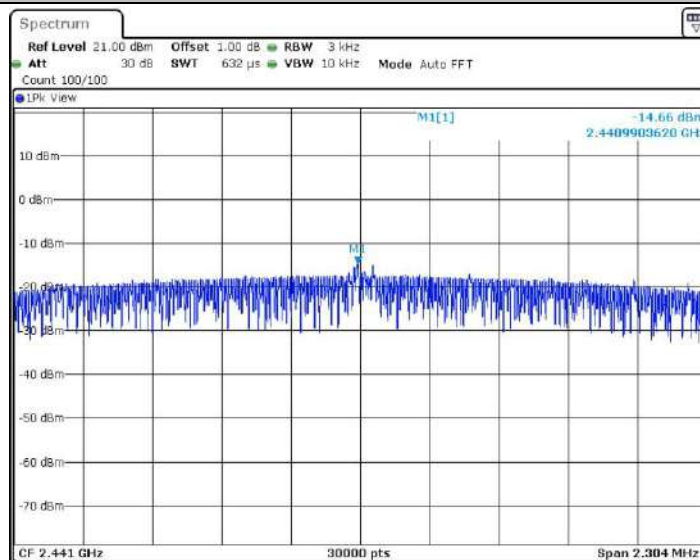
GFSK\_2Mbps\_Ant1\_2440



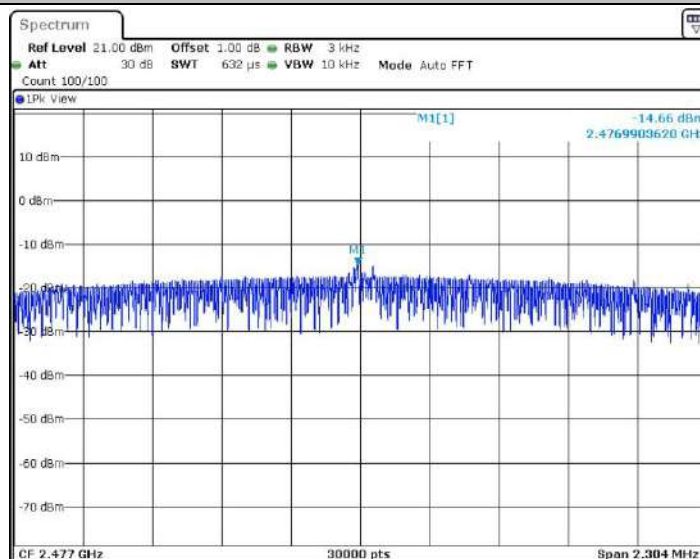
GFSK\_2Mbps\_Ant1\_2478



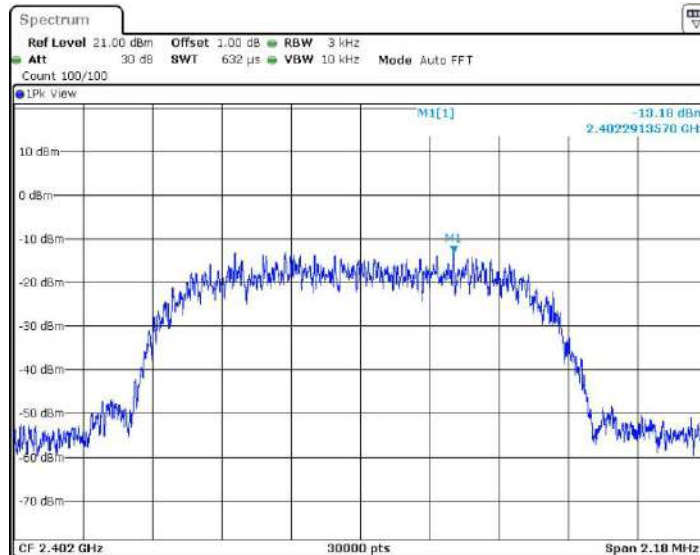
GFSK\_4Mbps\_Ant1\_2405



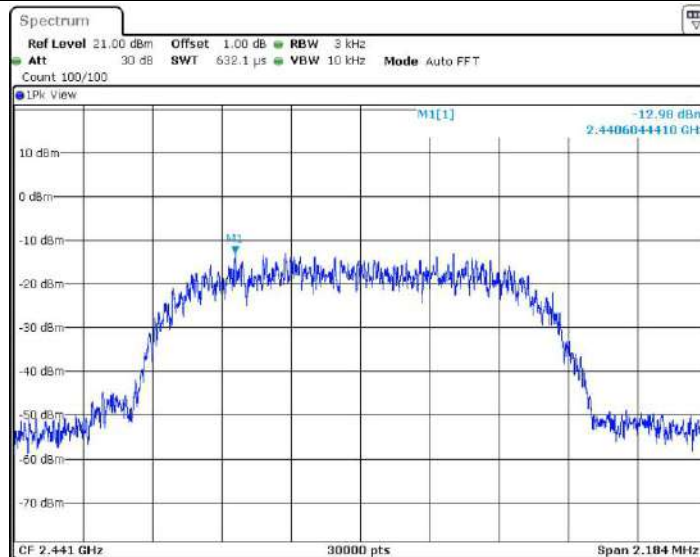
GFSK\_4Mbps\_Ant1\_2441



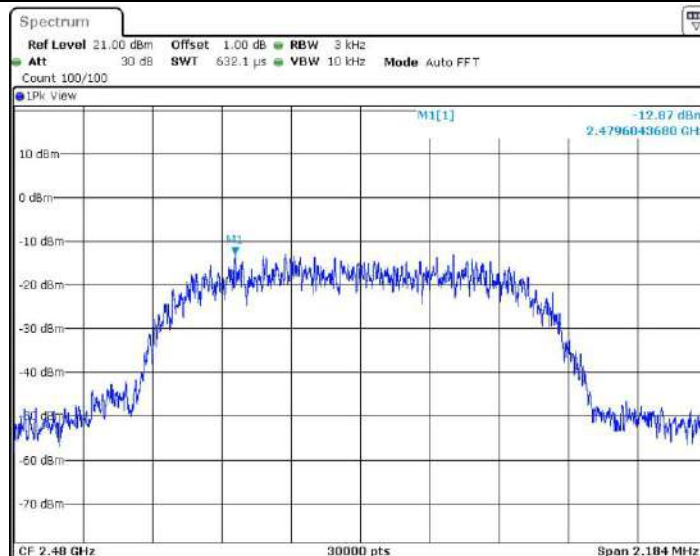
GFSK\_4Mbps\_Ant1\_2477



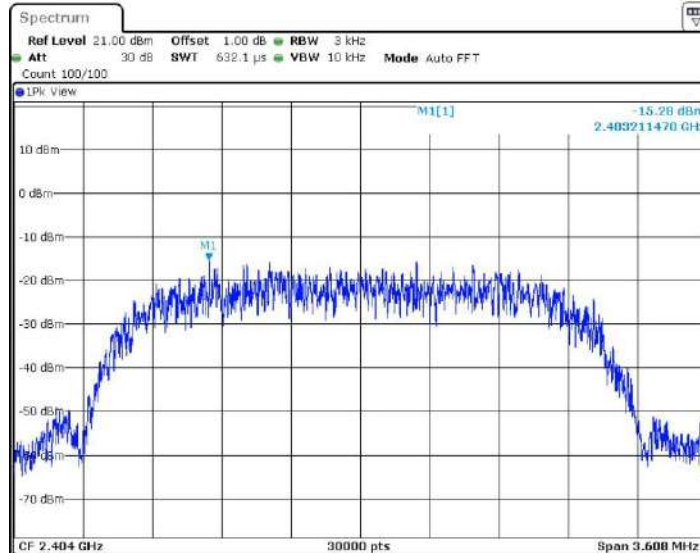
QPSK\_2Mbps\_Ant1\_2402



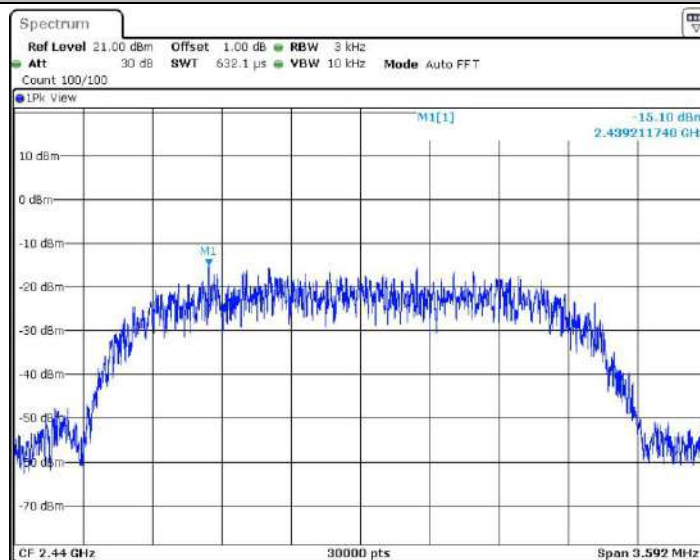
QPSK\_2Mbps\_Ant1\_2441



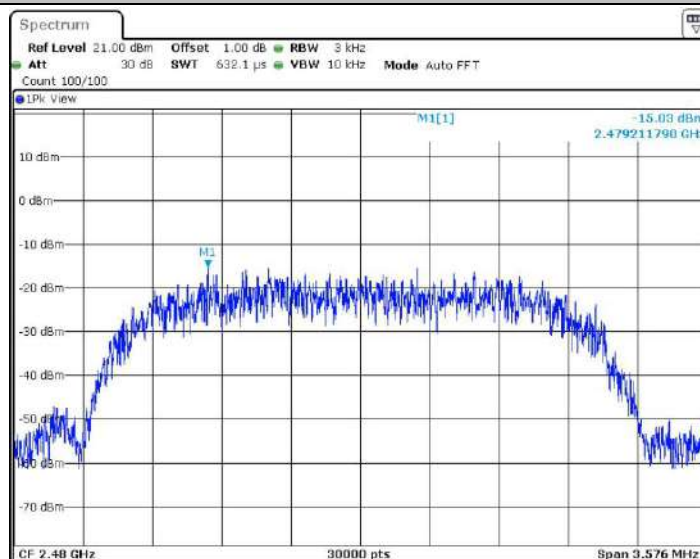
QPSK\_2Mbps\_Ant1\_2480



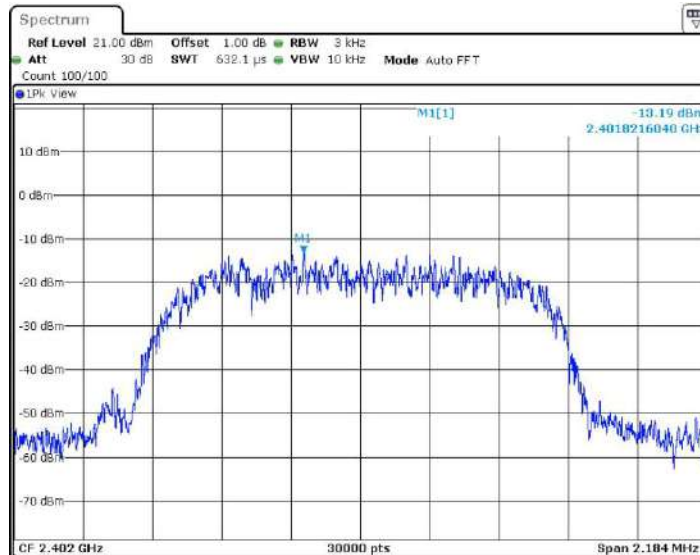
QPSK\_4Mbps\_Ant1\_2404



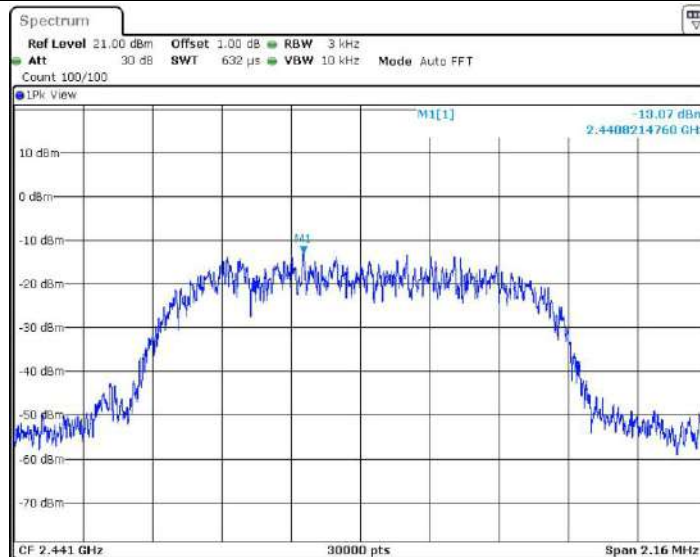
QPSK\_4Mbps\_Ant1\_2440



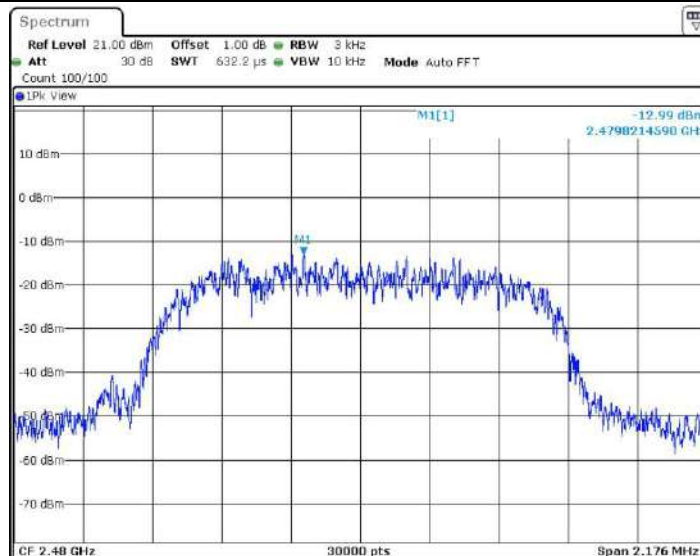
QPSK\_4Mbps\_Ant1\_2480



8PSK\_3Mbps\_Ant1\_2402



8PSK\_3Mbps\_Ant1\_2441



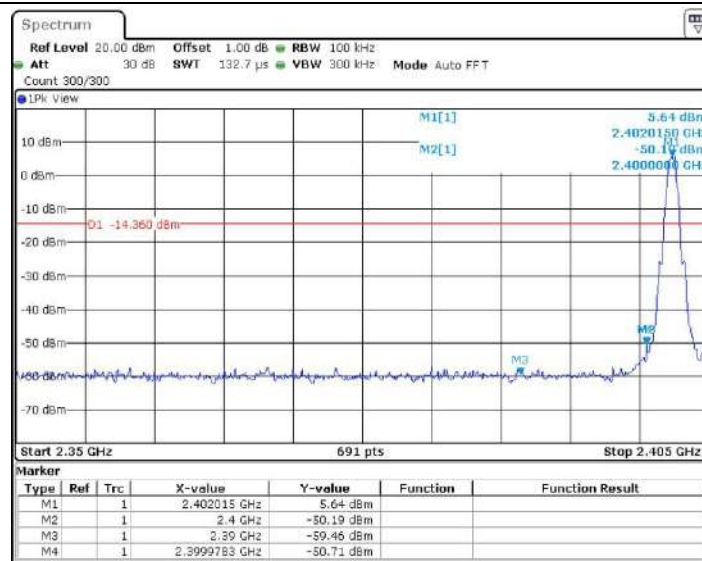
8PSK\_3Mbps\_Ant1\_2480

## Appendix D: Band edge measurements

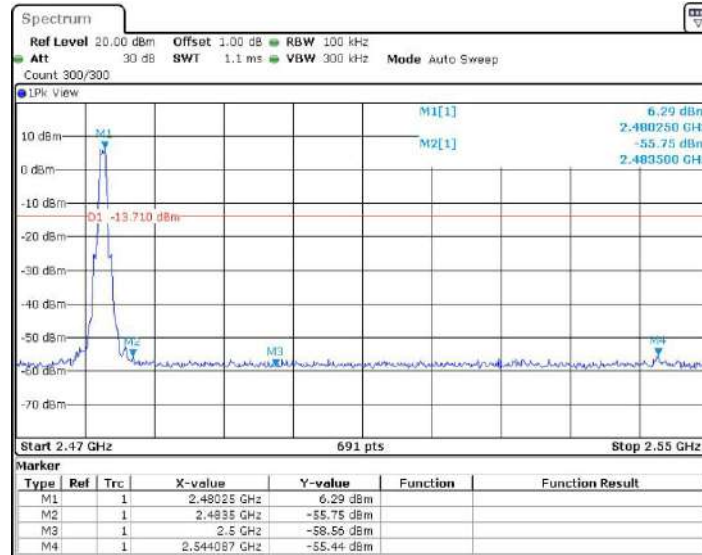
### Test Result

| TestMode   | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|------------|---------|--------|---------|---------------|-------------|------------|---------|
| GFSK_1Mbps | Ant1    | Low    | 2402    | 5.64          | -50.71      | <=-14.36   | PASS    |
|            |         | High   | 2480    | 6.29          | -55.44      | <=-13.71   | PASS    |
| GFSK_2Mbps |         | Low    | 2404    | 5.96          | -56.29      | <=-14.04   | PASS    |
|            |         | High   | 2478    | 5.87          | -55.54      | <=-14.13   | PASS    |
| GFSK_4Mbps |         | Low    | 2405    | 5.96          | -51.61      | <=-14.04   | PASS    |
|            |         | High   | 2477    | 6.10          | -52.83      | <=-13.9    | PASS    |
| QPSK_2Mbps |         | Low    | 2402    | 1.70          | -48.19      | <=-18.3    | PASS    |
|            |         | Hight  | 2480    | 1.99          | -51.31      | <=-18.01   | PASS    |
| QPSK_4Mbps |         | Low    | 2404    | 1.68          | -47.56      | <=-18.32   | PASS    |
|            |         | Hight  | 2478    | 5.87          | -55.54      | <=-14.13   | PASS    |
| 8PSK_3Mbps |         | Low    | 2402    | -0.06         | -47.18      | <=-20.06   | PASS    |
|            |         | Hight  | 2480    | 1.96          | -50.65      | <=-18.04   | PASS    |

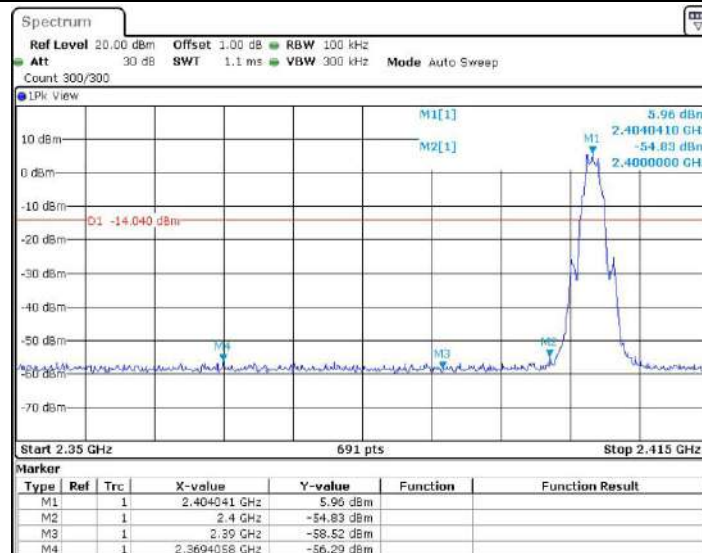
## Test Graphs



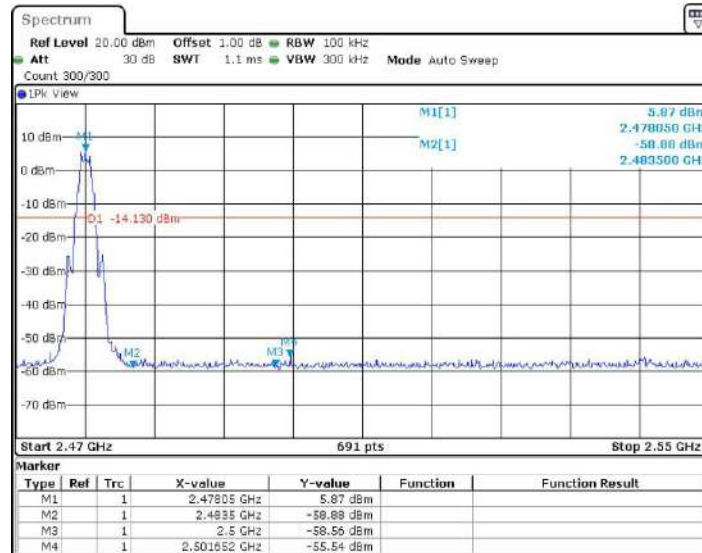
GFSK\_1Mbps\_Ant1\_Low\_2402



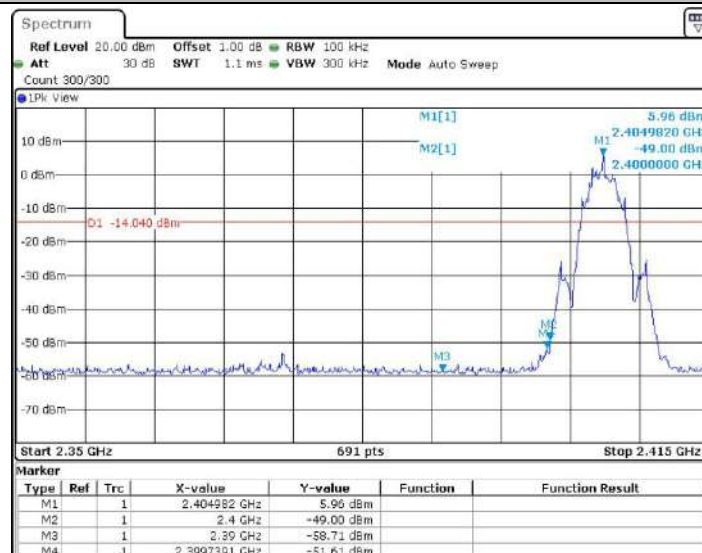
GFSK\_1Mbps\_Ant1\_High\_2480



GFSK\_2Mbps\_Ant1\_Low\_2404



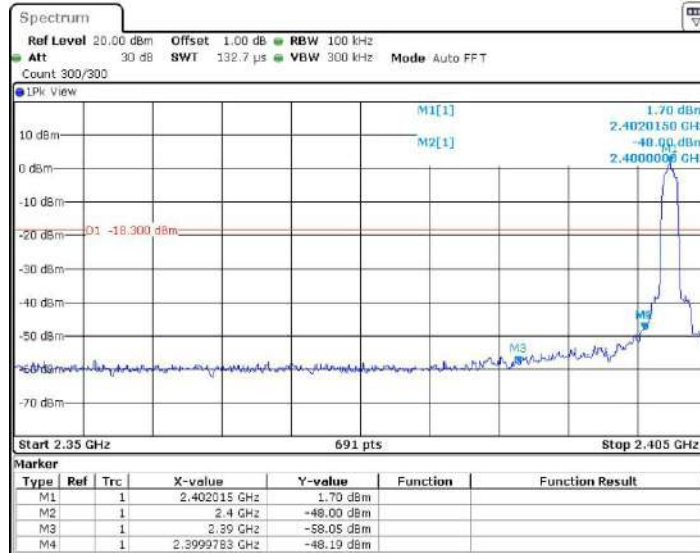
GFSK\_2Mbps\_Ant1\_High\_2478



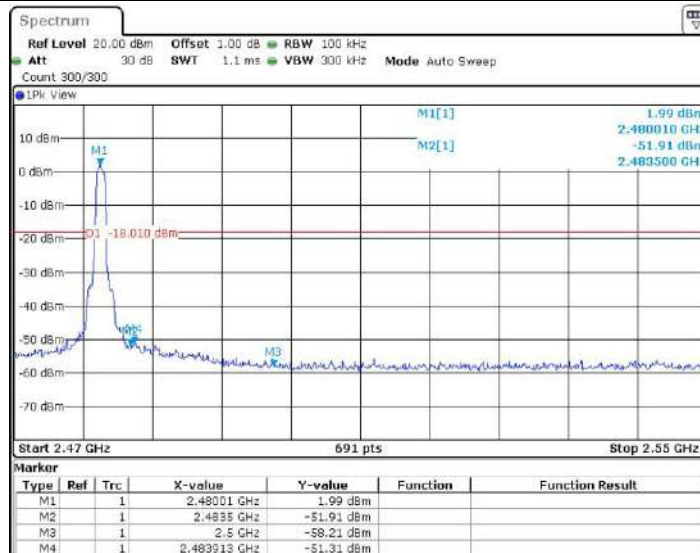
GFSK\_4Mbps\_Ant1\_Low\_2405



GFSK\_4Mbps\_Ant1\_High\_2477



QPSK\_2Mbps\_Ant1\_Low\_2402



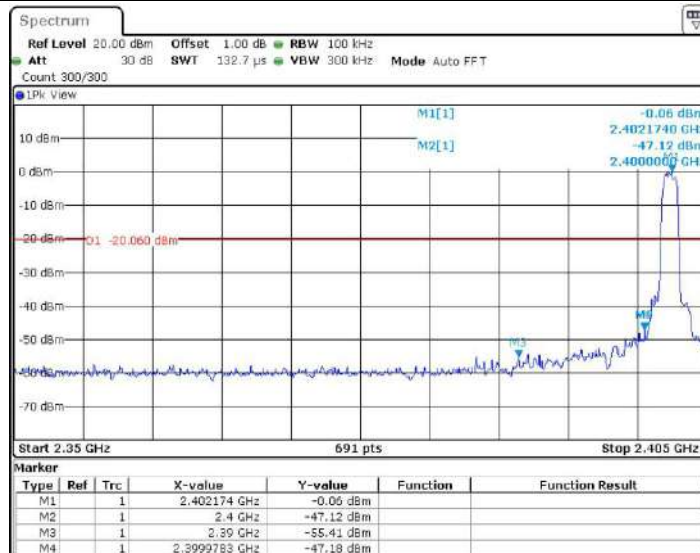
QPSK\_2Mbps\_Ant1\_High\_2480



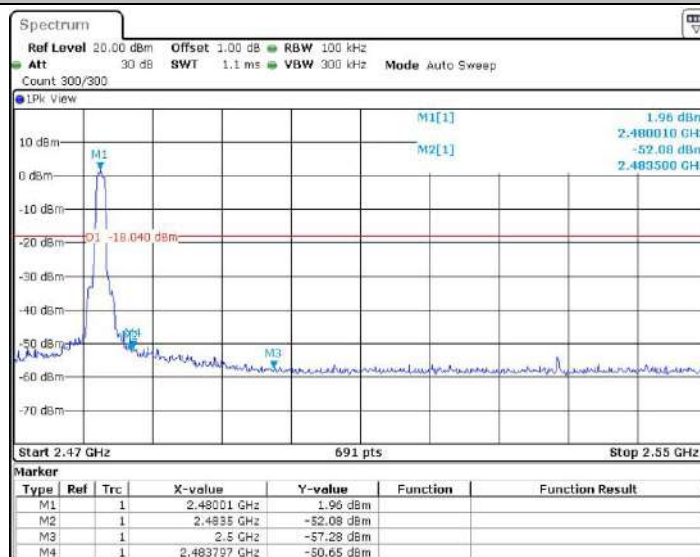
QPSK\_4Mbps\_Ant1\_Low\_2404



QPSK\_4Mbps\_Ant1\_High\_2480



8PSK\_3Mbps\_Ant1\_Low\_2402



8PSK\_3Mbps\_Ant1\_High\_2480

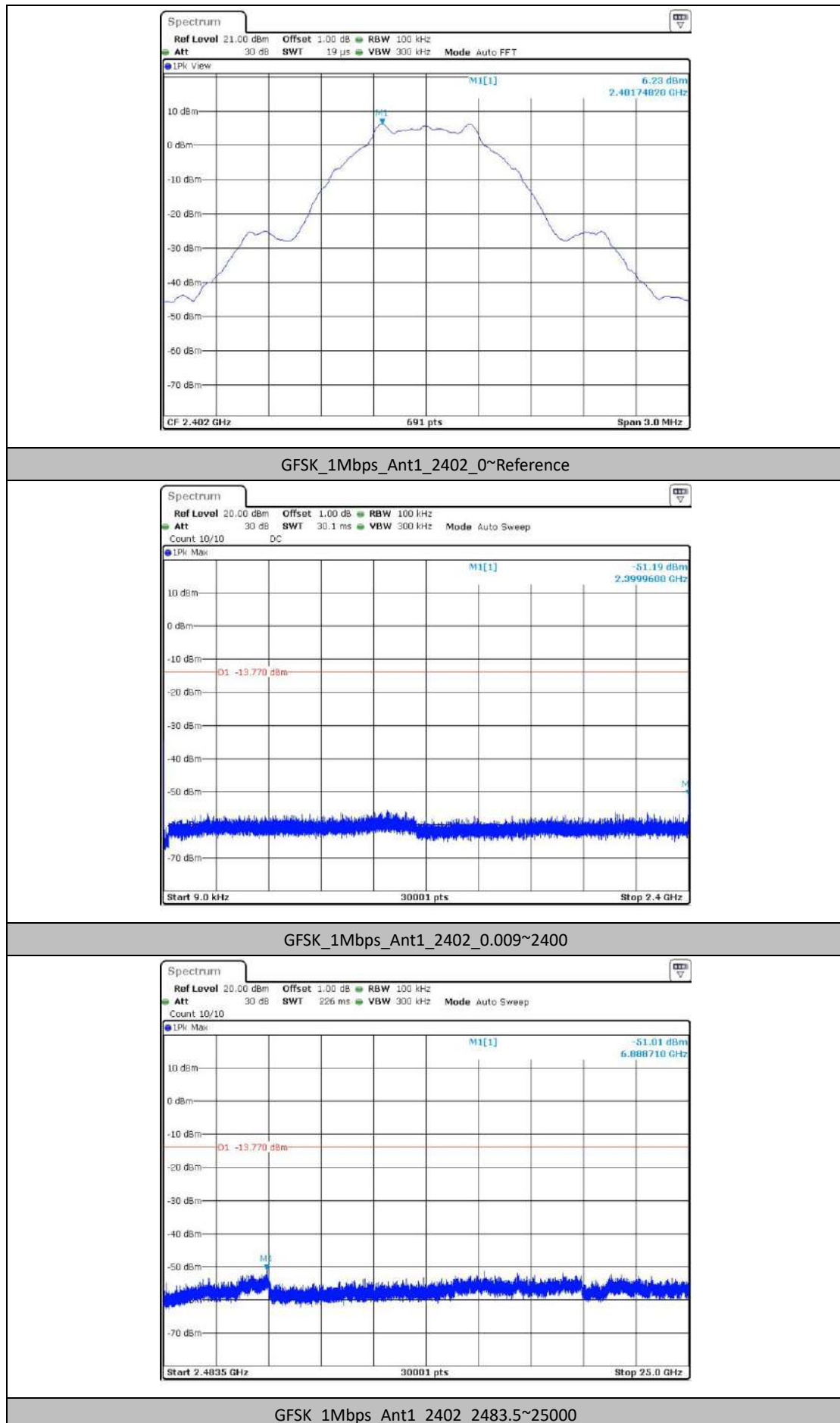
## Appendix E: Conducted Spurious Emission

### Test Result

| TestMode   | Antenna | Channel      | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm] | Verdict  |      |
|------------|---------|--------------|--------------------|-------------------|-------------|------------|----------|------|
| GFSK_1Mbps | Ant1    | 2402         | Reference          | 6.23              | 6.23        | ---        | PASS     |      |
|            |         |              | 0.009~2400         | 6.23              | -51.19      | <=-13.77   | PASS     |      |
|            |         |              | 2483.5~25000       | 6.23              | -51.01      | <=-13.77   | PASS     |      |
|            |         | 2441         | Reference          | 6.35              | 6.35        | ---        | PASS     |      |
|            |         |              | 0.009~2400         | 6.35              | -55.62      | <=-13.65   | PASS     |      |
|            |         |              | 2483.5~25000       | 6.35              | -51.35      | <=-13.65   | PASS     |      |
|            |         | 2480         | Reference          | 6.41              | 6.41        | ---        | PASS     |      |
|            |         |              | 0.009~2400         | 6.41              | -55.71      | <=-13.59   | PASS     |      |
|            |         |              | 2483.5~25000       | 6.41              | -51.31      | <=-13.59   | PASS     |      |
| GFSK_2Mbps |         | 2404         | Reference          | 5.82              | 5.82        | ---        | PASS     |      |
|            |         |              | 0.009~2400         | 5.82              | -56.19      | <=-14.18   | PASS     |      |
|            |         |              | 2483.5~25000       | 5.82              | -51.67      | <=-14.18   | PASS     |      |
|            |         |              | 2440               | Reference         | 5.94        | 5.94       | ---      | PASS |
|            |         |              |                    | 0.009~2400        | 5.94        | -55.87     | <=-14.06 | PASS |
|            |         |              |                    | 2483.5~25000      | 5.94        | -50.43     | <=-14.06 | PASS |
|            |         |              | 2478               | Reference         | 6.07        | 6.07       | ---      | PASS |
|            |         |              |                    | 0.009~2400        | 6.07        | -55.56     | <=-13.93 | PASS |
|            |         |              |                    | 2483.5~25000      | 6.07        | -50.41     | <=-13.93 | PASS |
| GFSK_4Mbps |         | 2405         | Reference          | 5.96              | 5.96        | ---        | PASS     |      |
|            |         |              | 0.009~2400         | 5.96              | -52.15      | <=-14.04   | PASS     |      |
|            |         |              | 2483.5~25000       | 5.96              | -50.76      | <=-14.04   | PASS     |      |
|            |         |              | 2441               | Reference         | 6.08        | 6.08       | ---      | PASS |
|            |         |              |                    | 0.009~2400        | 6.08        | -56        | <=-13.92 | PASS |
|            |         |              |                    | 2483.5~25000      | 6.08        | -51.79     | <=-13.92 | PASS |
|            |         |              | 2477               | Reference         | 5.80        | 5.80       | ---      | PASS |
|            |         |              |                    | 0.009~2400        | 5.80        | -54.97     | <=-14.2  | PASS |
|            |         |              |                    | 2483.5~25000      | 5.80        | -51.31     | <=-14.2  | PASS |
| QPSK_2Mbps | 2402    | Reference    | 1.61               | 1.61              | ---         | PASS       |          |      |
|            |         | 0.009~2400   | 1.61               | -49.33            | <=-18.39    | PASS       |          |      |
|            |         | 2483.5~25000 | 1.61               | -51.86            | <=-18.39    | PASS       |          |      |
|            |         | 2441         | Reference          | 1.83              | 1.83        | ---        | PASS     |      |
|            |         |              | 0.009~2400         | 1.83              | -52.76      | <=-18.17   | PASS     |      |
|            |         |              | 2483.5~25000       | 1.83              | -50.73      | <=-18.17   | PASS     |      |
|            |         | 2480         | Reference          | 1.91              | 1.91        | ---        | PASS     |      |
|            |         |              | 0.009~2400         | 1.91              | -55.71      | <=-18.09   | PASS     |      |
|            |         |              | 2483.5~25000       | 1.91              | -51.38      | <=-18.09   | PASS     |      |
| QPSK_4Mbps | 2404    | Reference    | 1.63               | 1.63              | ---         | PASS       |          |      |
|            |         | 0.009~2400   | 1.63               | -45.64            | <=-18.37    | PASS       |          |      |
|            |         | 2483.5~25000 | 1.63               | -51.75            | <=-18.37    | PASS       |          |      |

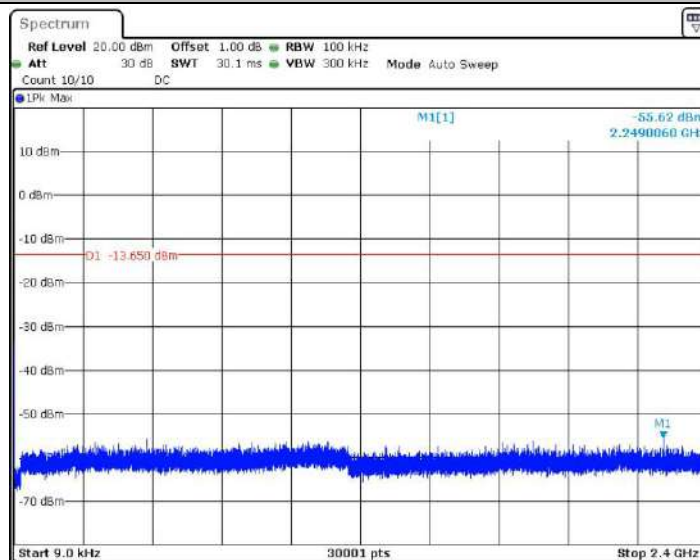
|            |  |      |              |      |        |          |      |
|------------|--|------|--------------|------|--------|----------|------|
|            |  | 2440 | Reference    | 1.76 | 1.76   | ---      | PASS |
|            |  |      | 0.009~2400   | 1.76 | -56.01 | <=-18.24 | PASS |
|            |  |      | 2483.5~25000 | 1.76 | -51.57 | <=-18.24 | PASS |
|            |  | 2478 | Reference    | 6.07 | 6.07   | ---      | PASS |
|            |  |      | 0.009~2400   | 6.07 | -55.56 | <=-13.93 | PASS |
|            |  |      | 2483.5~25000 | 6.07 | -50.41 | <=-13.93 | PASS |
|            |  | 2402 | Reference    | 1.68 | 1.68   | ---      | PASS |
|            |  |      | 0.009~2400   | 1.68 | -39.75 | <=-18.32 | PASS |
|            |  |      | 2483.5~25000 | 1.68 | -51.1  | <=-18.32 | PASS |
| 8PSK_3Mbps |  | 2441 | Reference    | 1.81 | 1.81   | ---      | PASS |
|            |  |      | 0.009~2400   | 1.81 | -55.95 | <=-18.19 | PASS |
|            |  |      | 2483.5~25000 | 1.81 | -51.26 | <=-18.19 | PASS |
|            |  | 2480 | Reference    | 1.85 | 1.85   | ---      | PASS |
|            |  |      | 0.009~2400   | 1.85 | -55.53 | <=-18.15 | PASS |
|            |  |      | 2483.5~25000 | 1.85 | -51.2  | <=-18.15 | PASS |

## Test Graphs

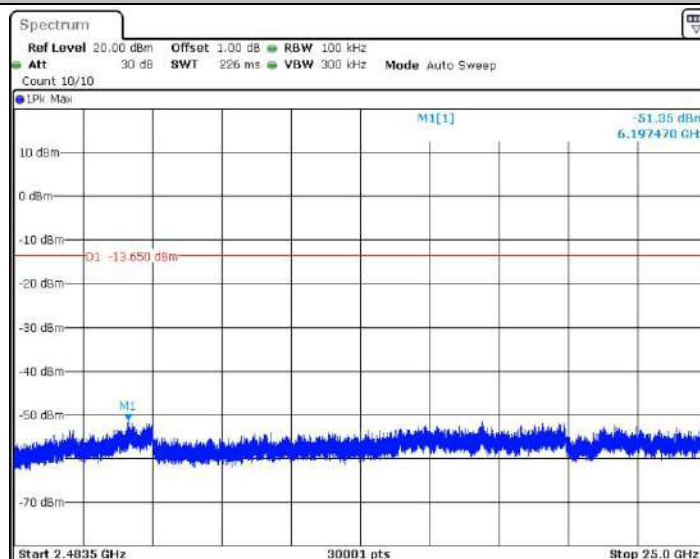




GFSK\_1Mbps\_Ant1\_2441\_0~Reference



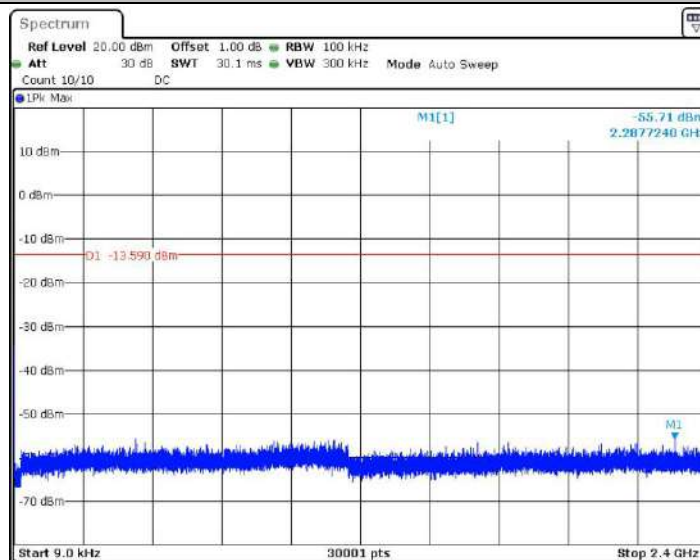
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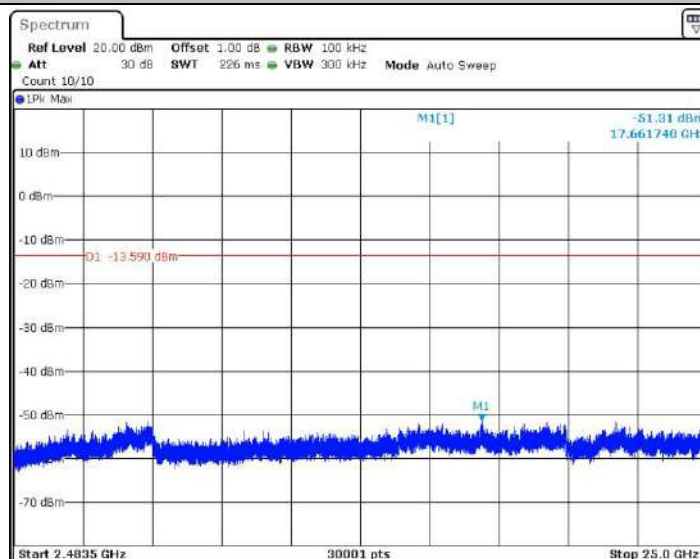
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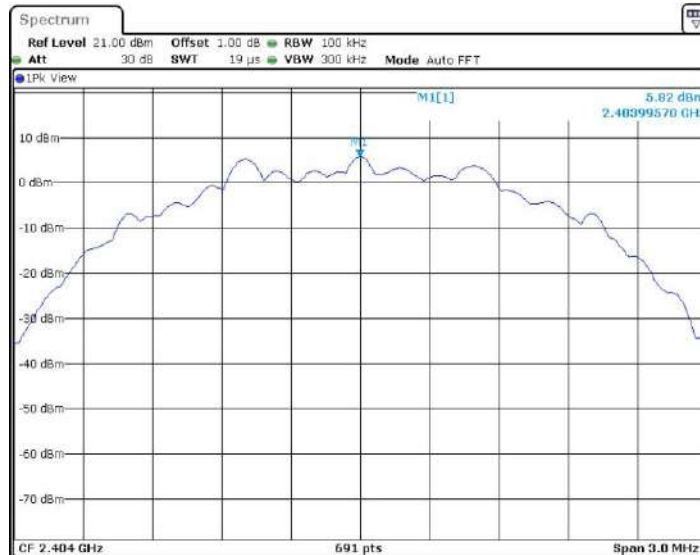
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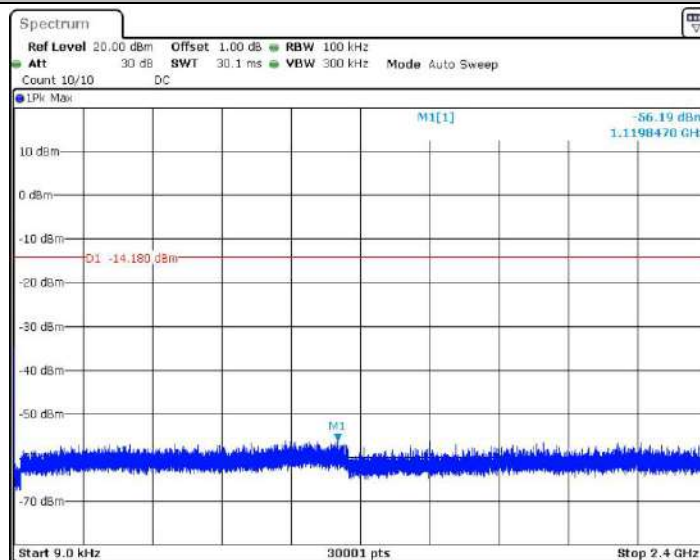
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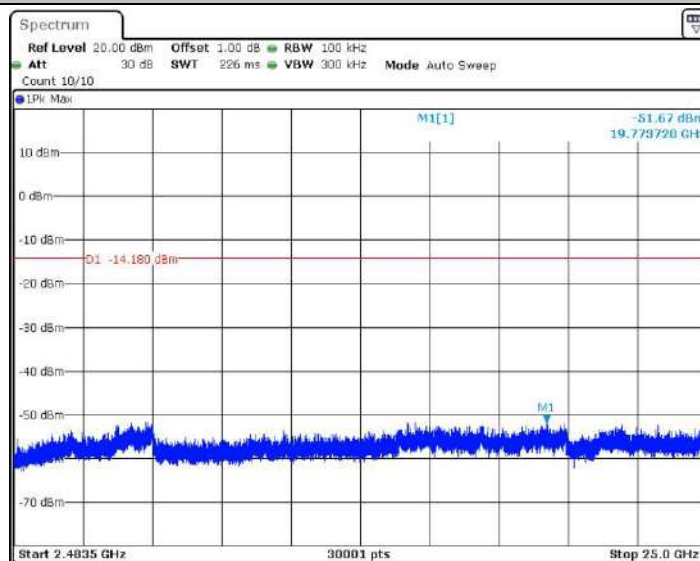
GFSK\_1Mbps\_Ant1\_2480\_2483.5~25000



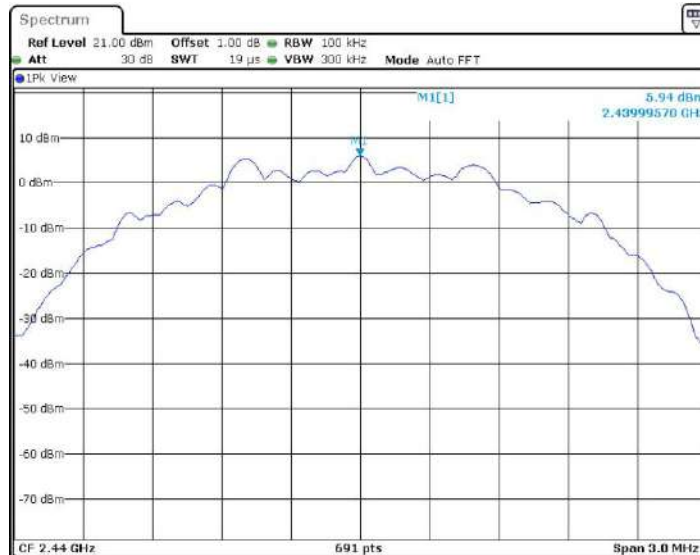
GFSK\_2Mbps\_Ant1\_2404\_0~Reference



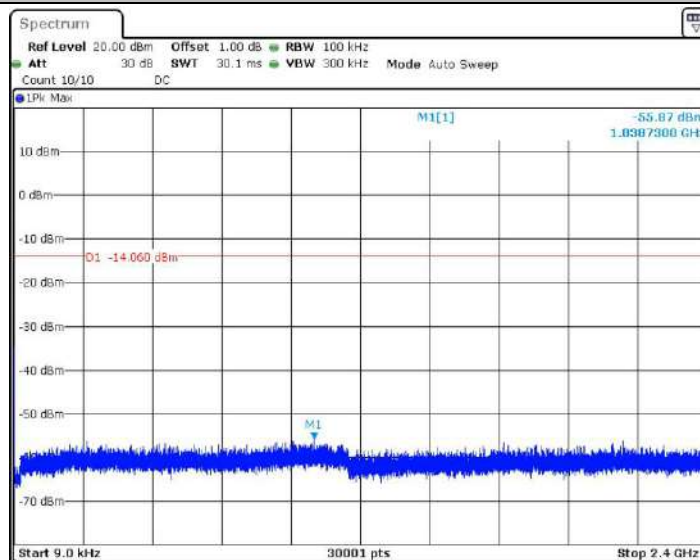
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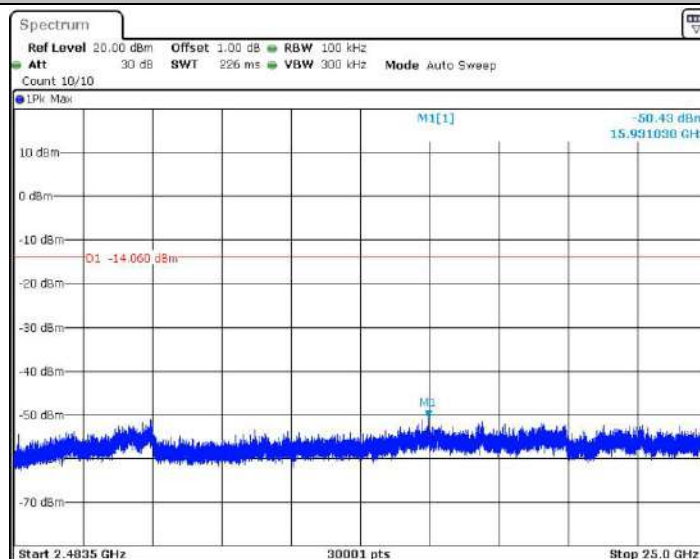
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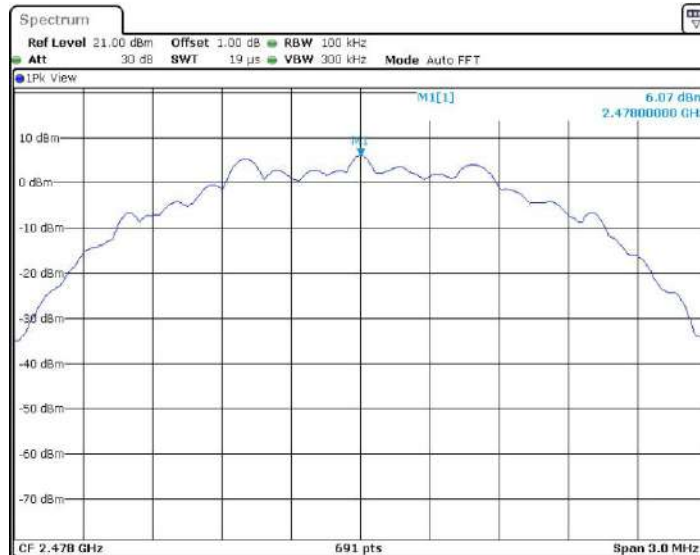
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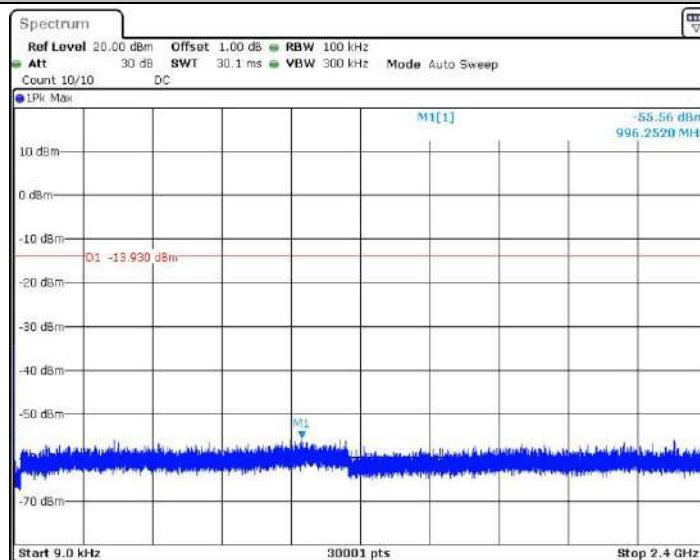
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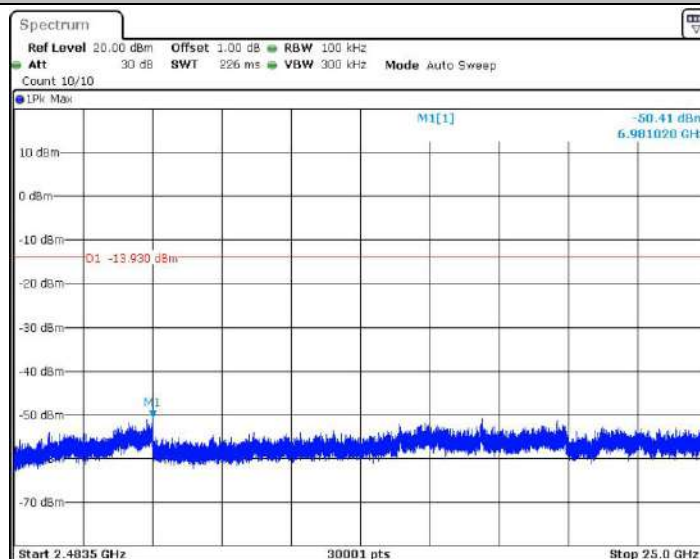
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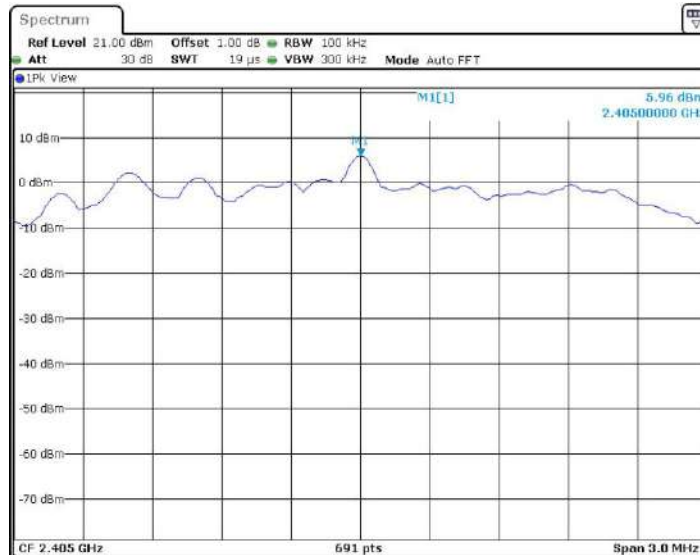
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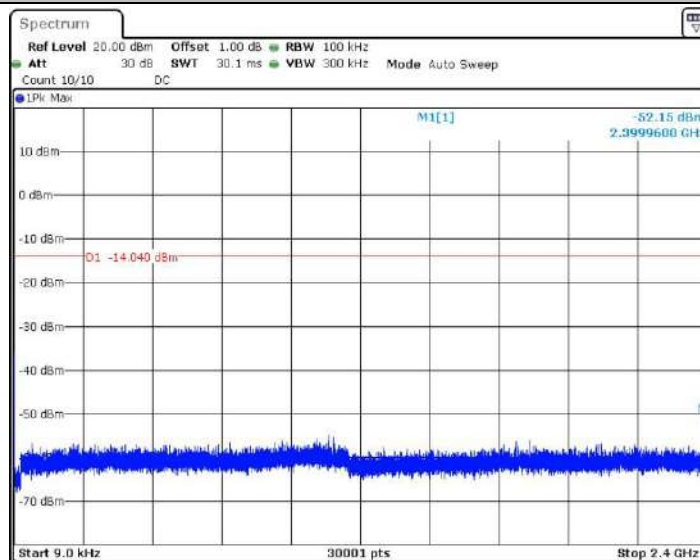
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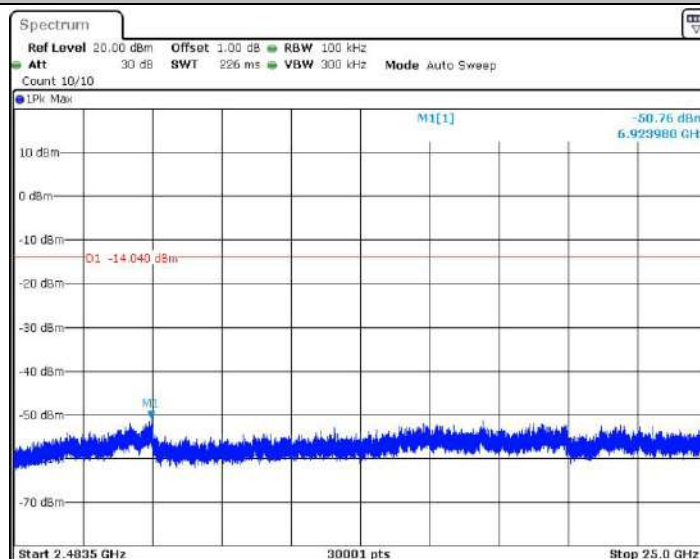
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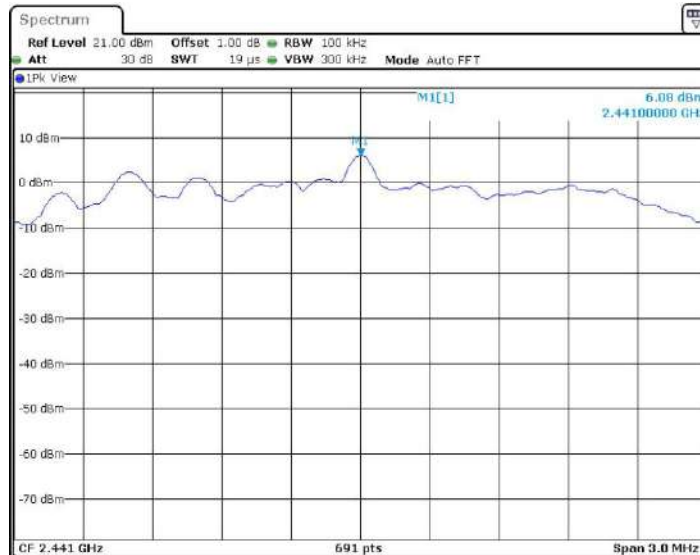
GFSK\_4Mbps\_Ant1\_2405\_0~Reference



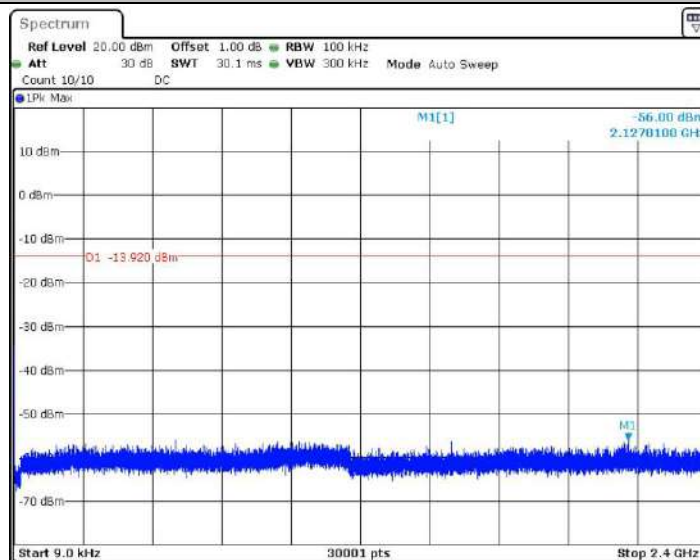
GFSK\_4Mbps\_Ant1\_2405\_0.009~2400



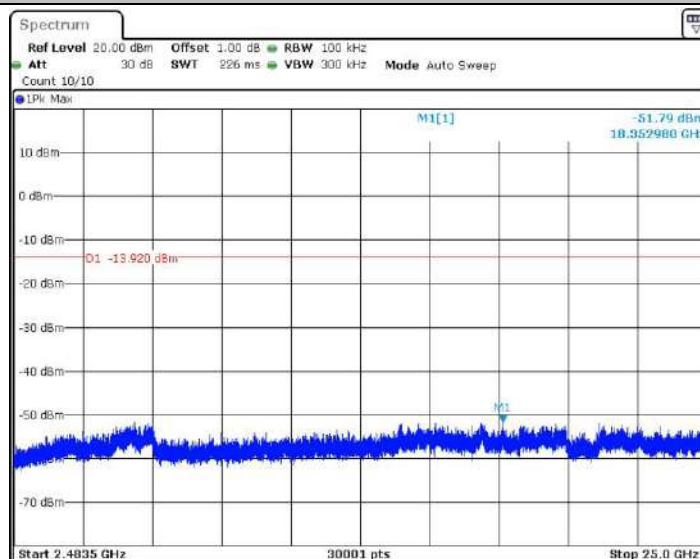
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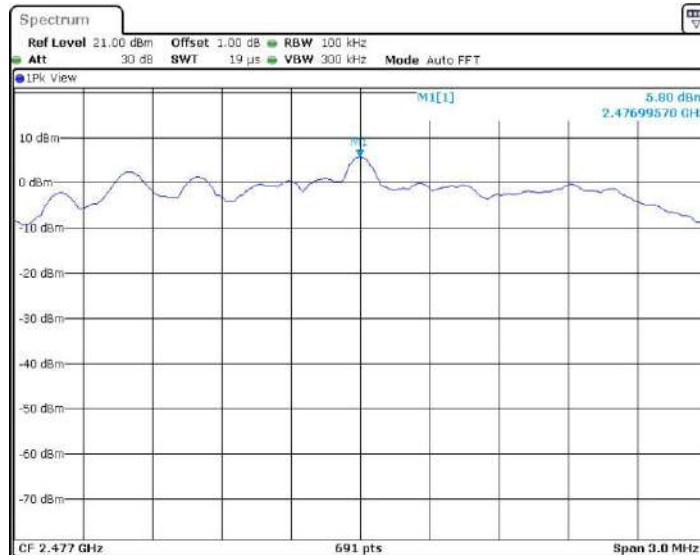
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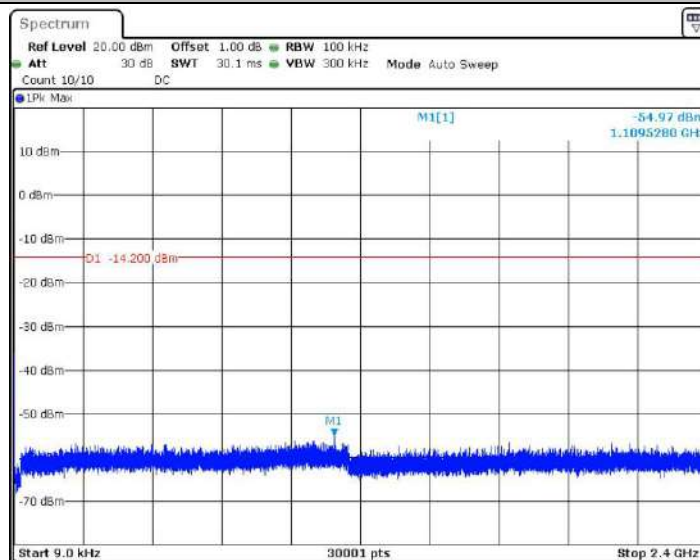
GFSK\_4Mbps\_Ant1\_2441\_0.009~2400



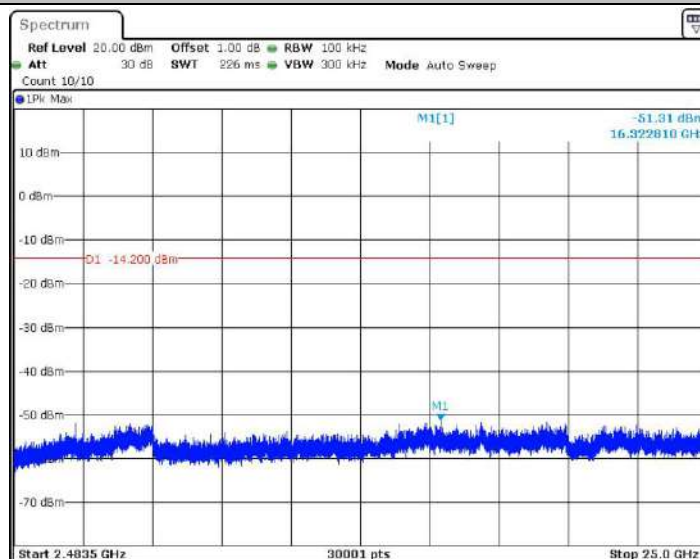
GFSK\_4Mbps\_Ant1\_2441\_2483.5~25000



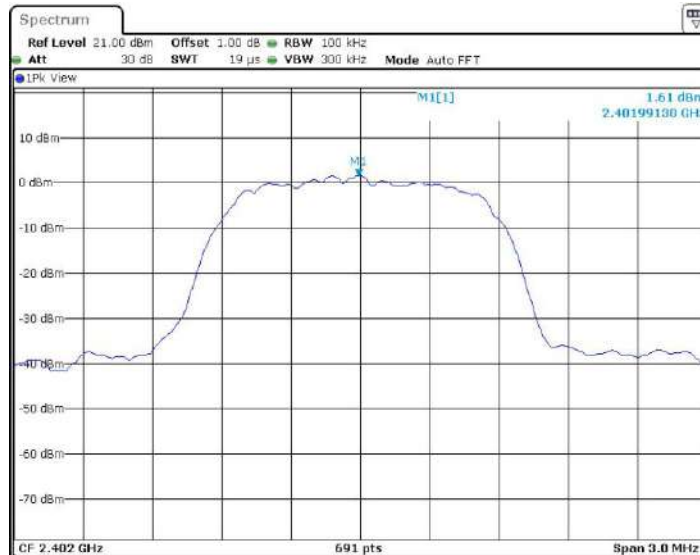
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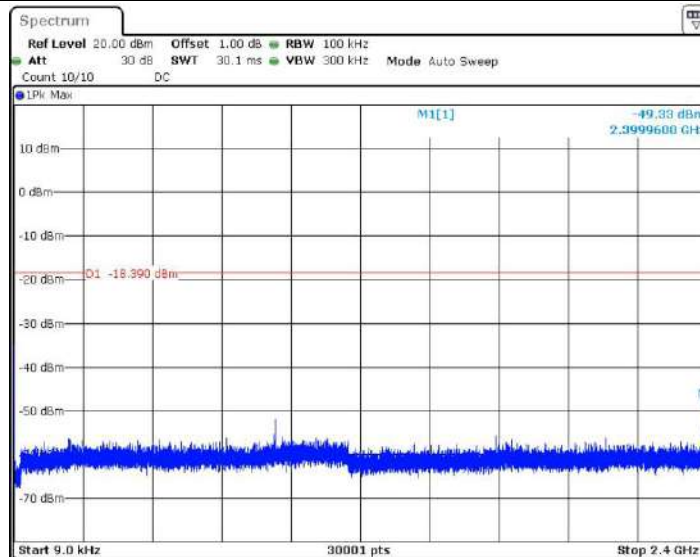
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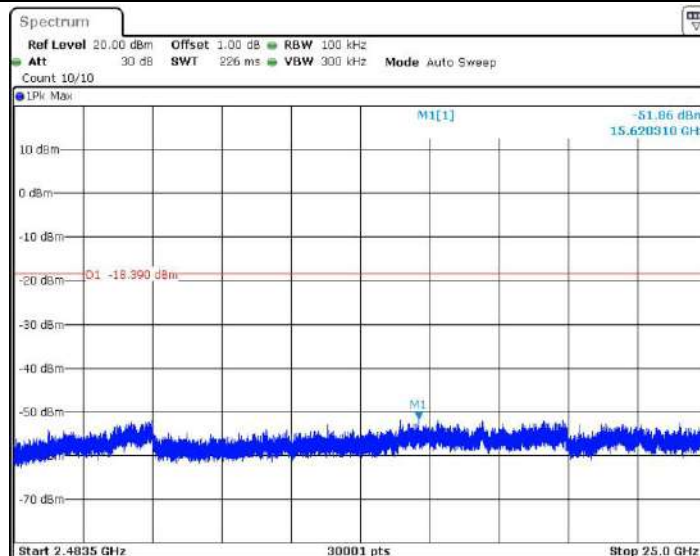
GFSK\_4Mbps\_Ant1\_2477\_2483.5~25000



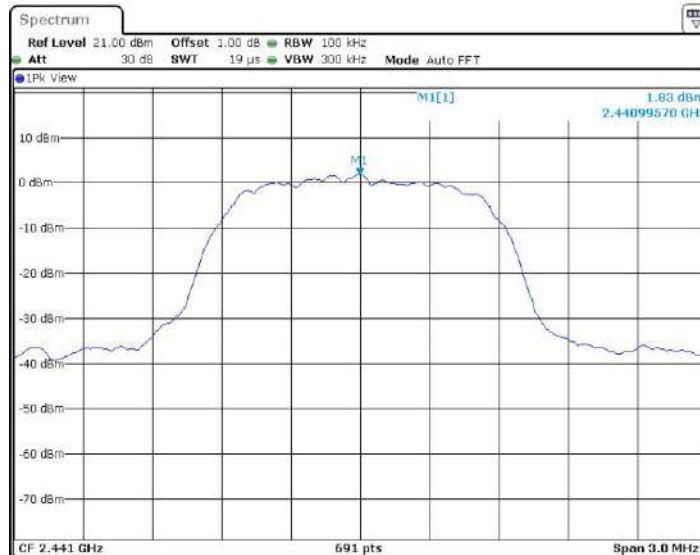
QPSK\_2Mbps\_Ant1\_2402\_0~Reference



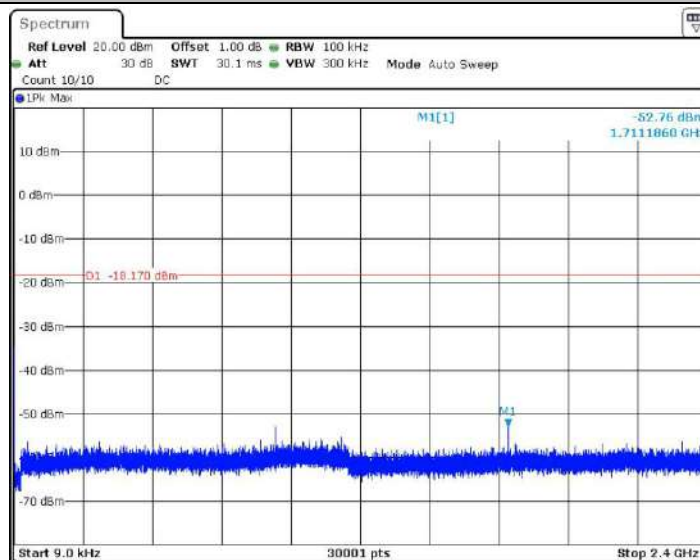
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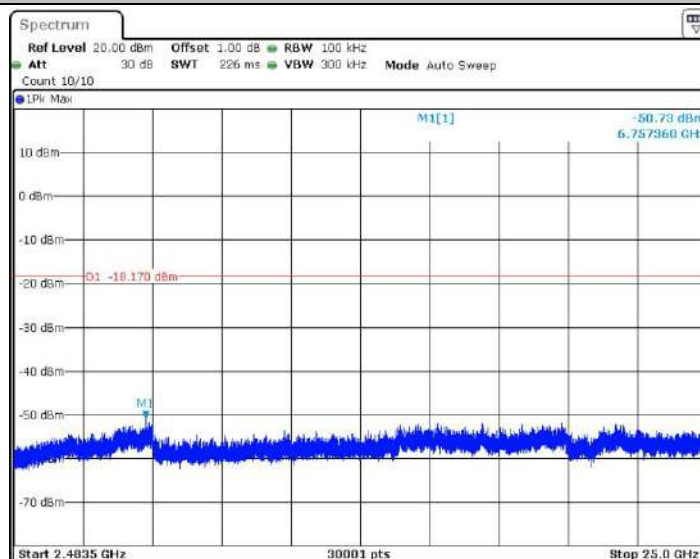
QPSK\_2Mbps\_Ant1\_2402\_2483.5~25000



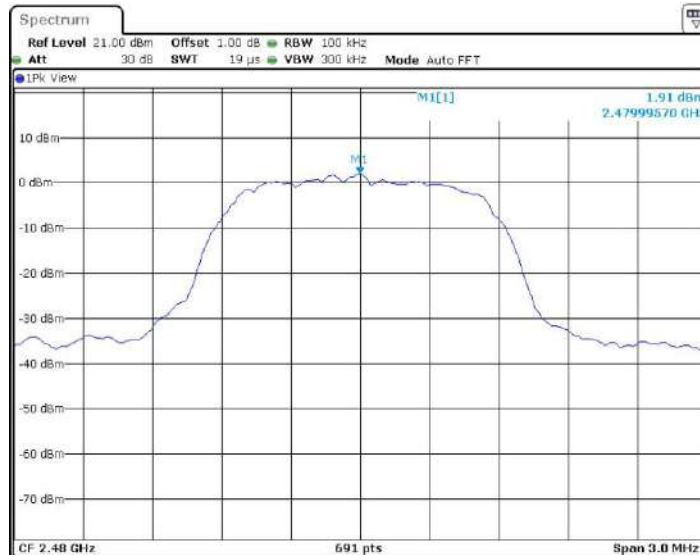
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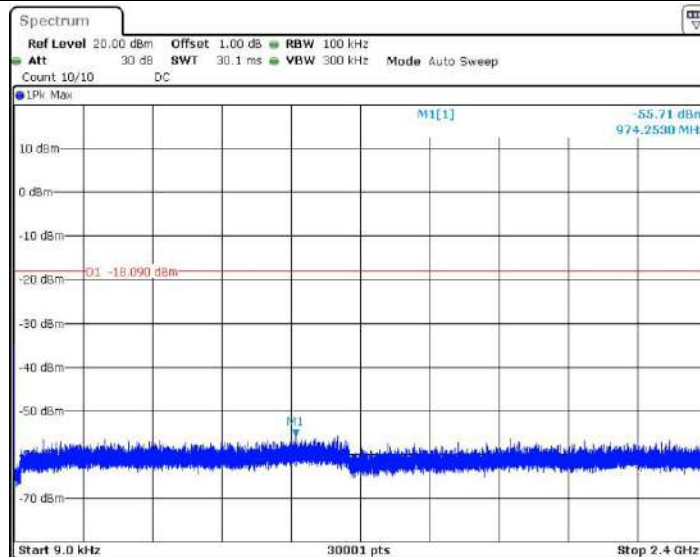
QPSK\_2Mbps\_Ant1\_2441\_0.009~2400



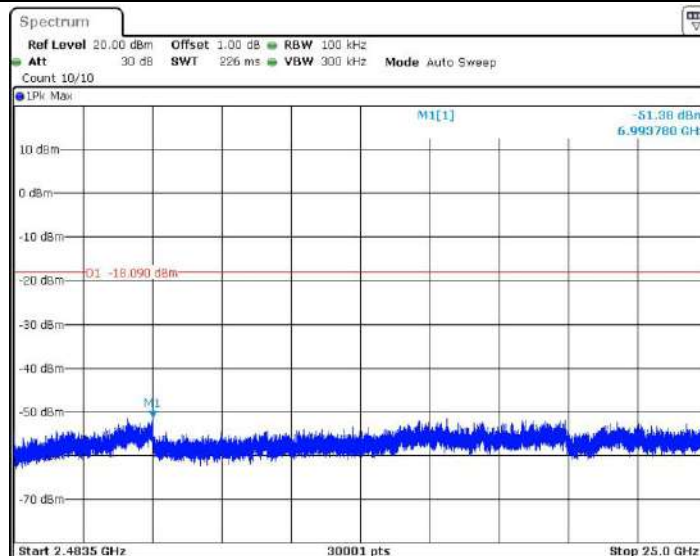
QPSK\_2Mbps\_Ant1\_2441\_2483.5~25000



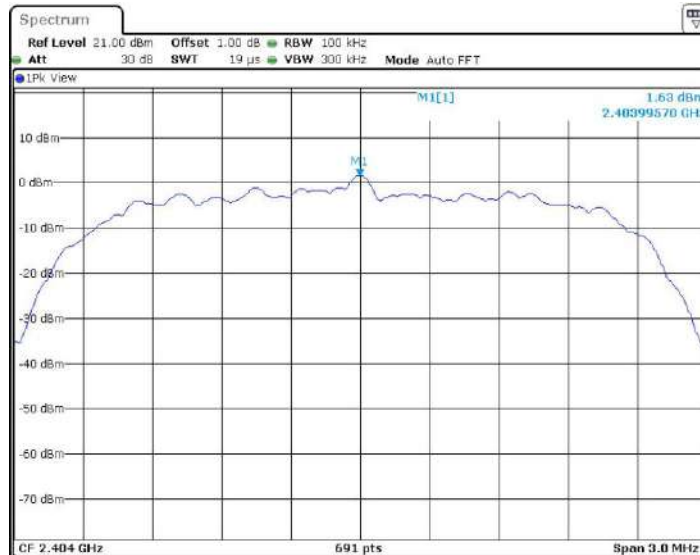
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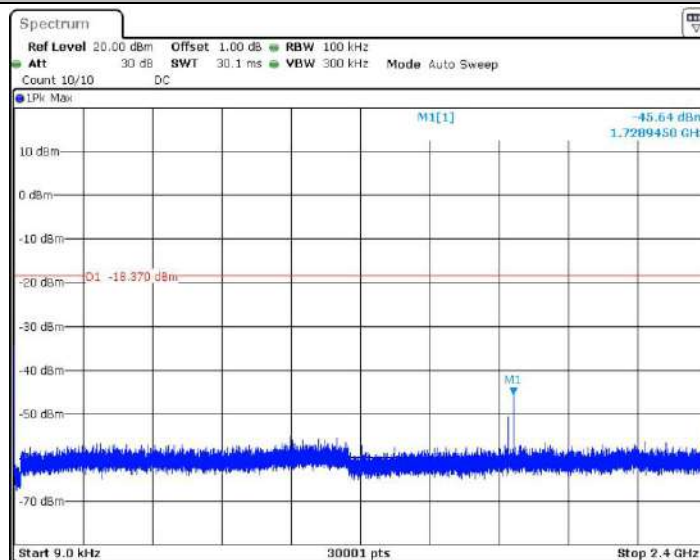
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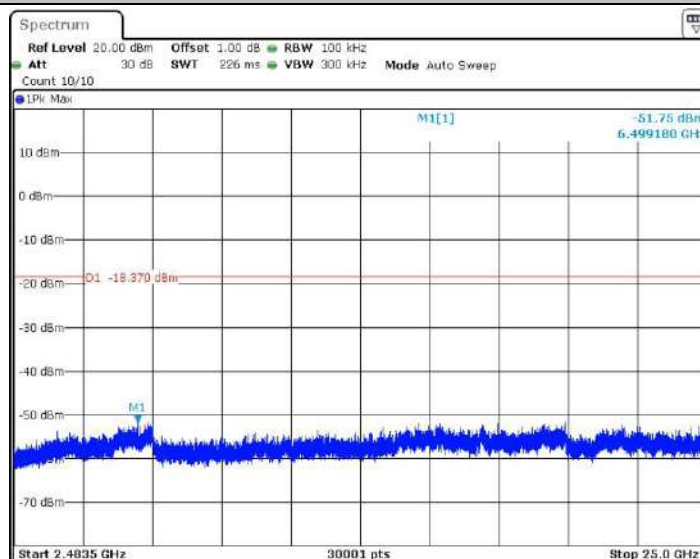
QPSK\_2Mbps\_Ant1\_2480\_2483.5~25000



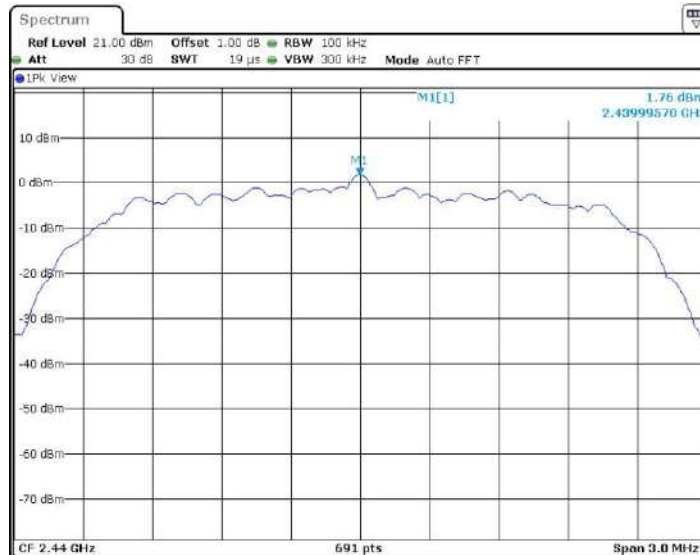
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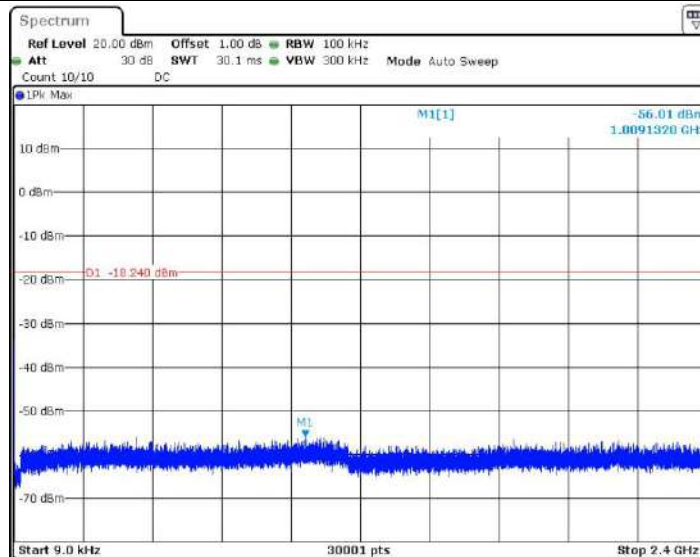
QPSK\_4Mbps\_Ant1\_2404\_0.009~2400



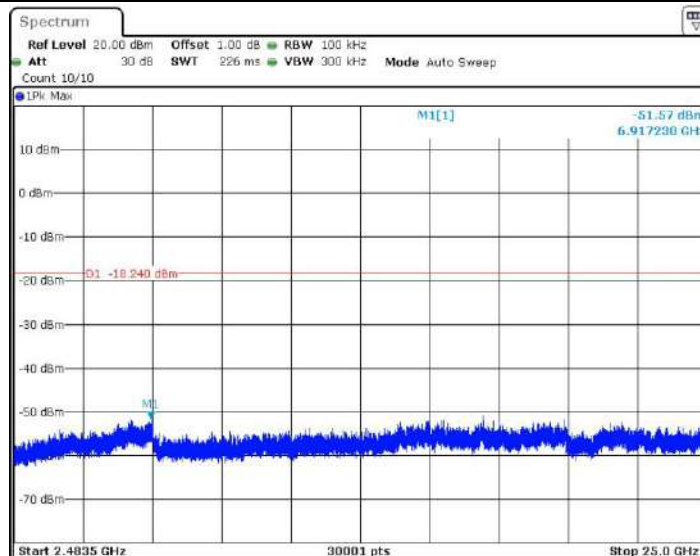
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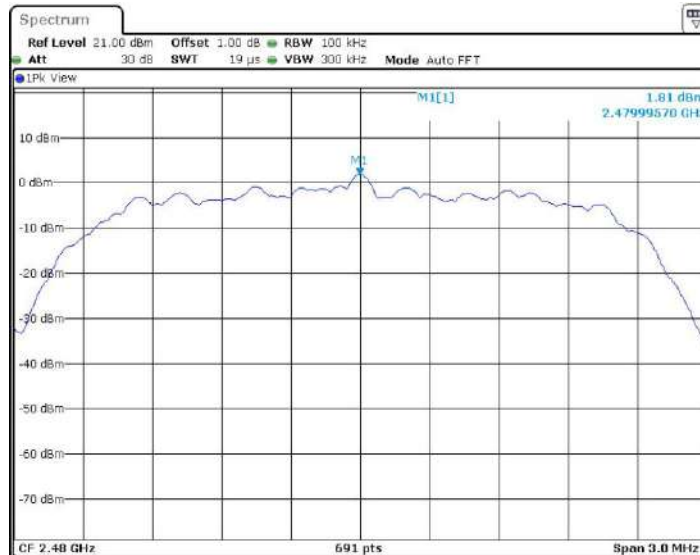
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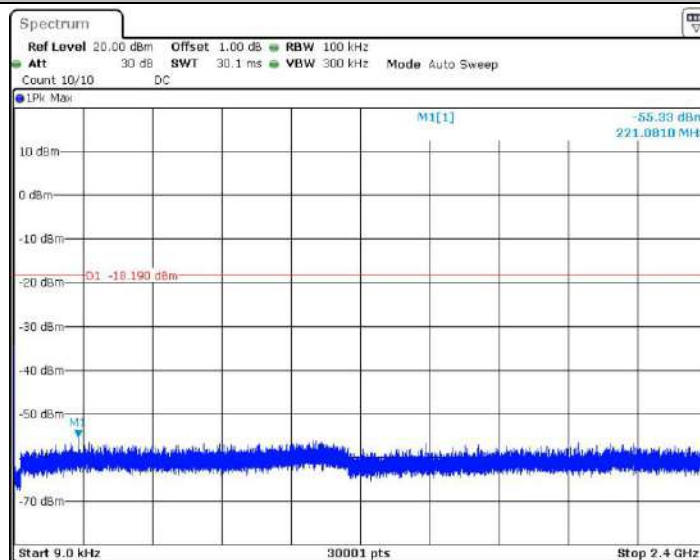
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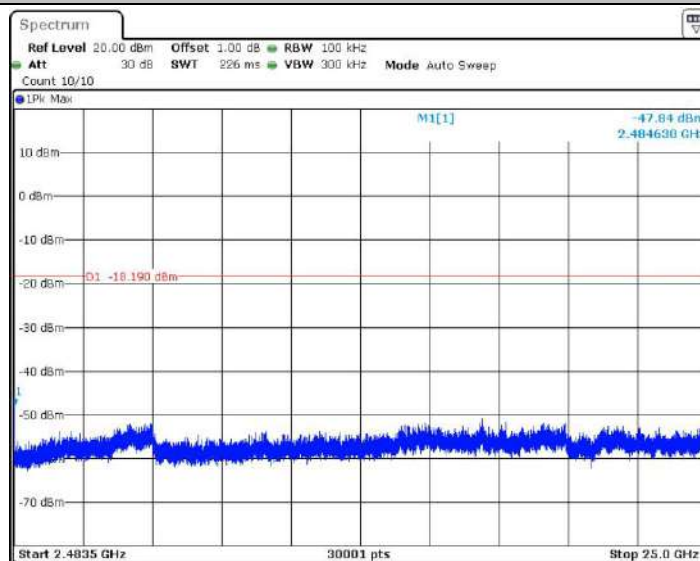
QPSK\_4Mbps\_Ant1\_2440\_2483.5~25000



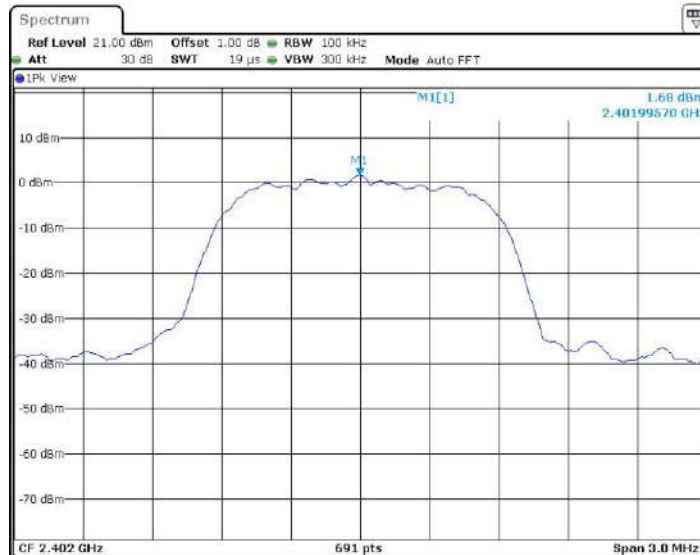
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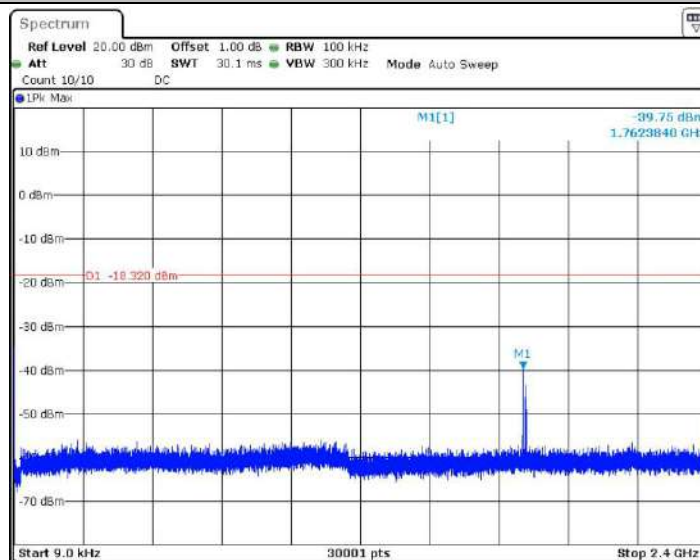
QPSK\_4Mbps\_Ant1\_2480\_0.009~2400



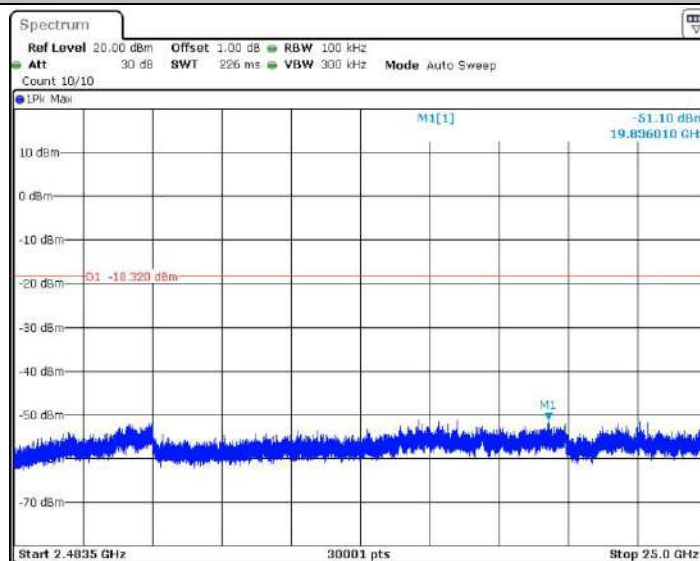
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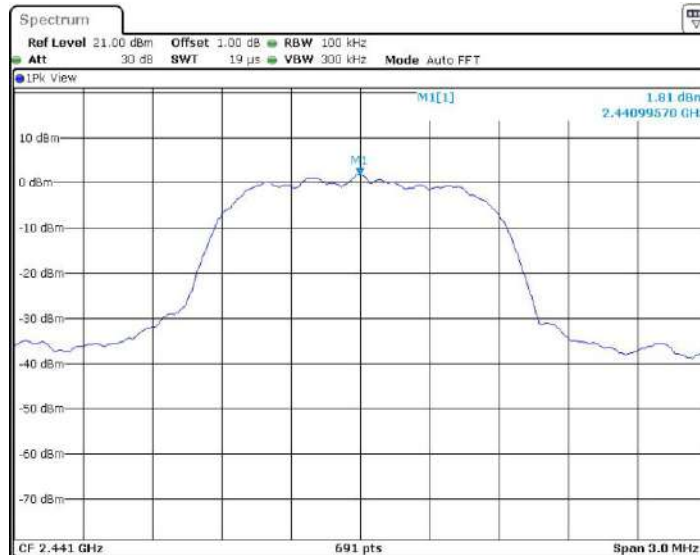
8PSK\_3Mbps\_Ant1\_2402\_0~Reference



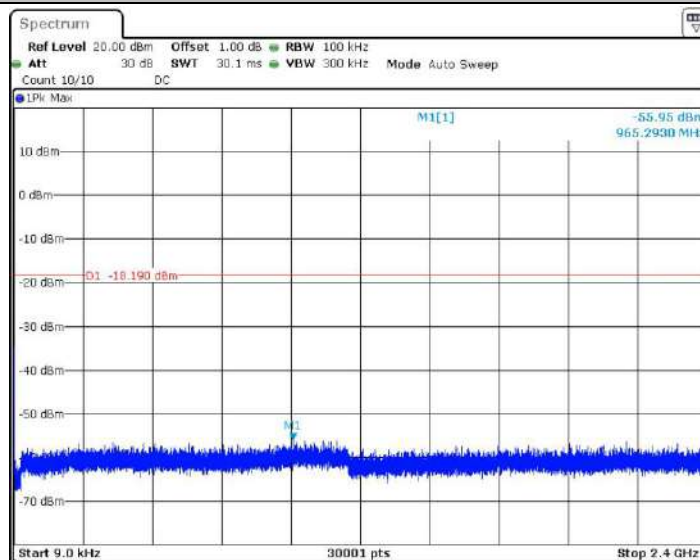
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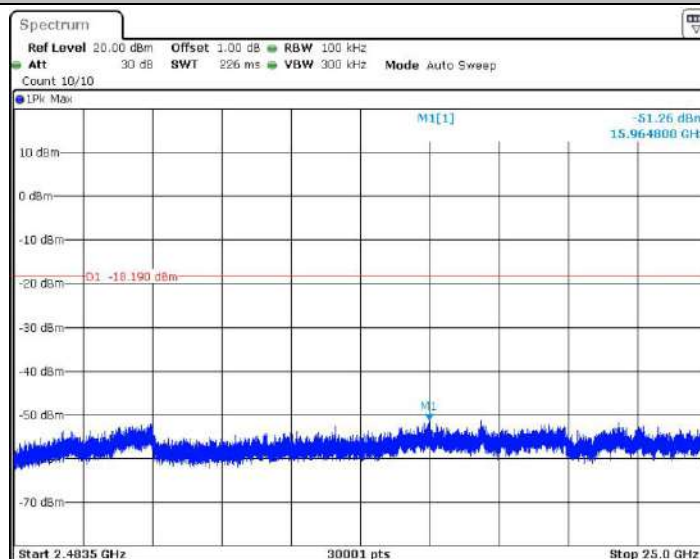
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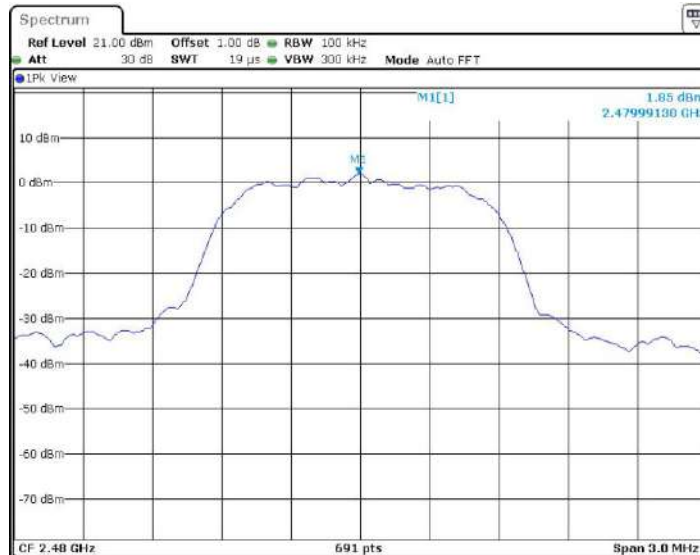
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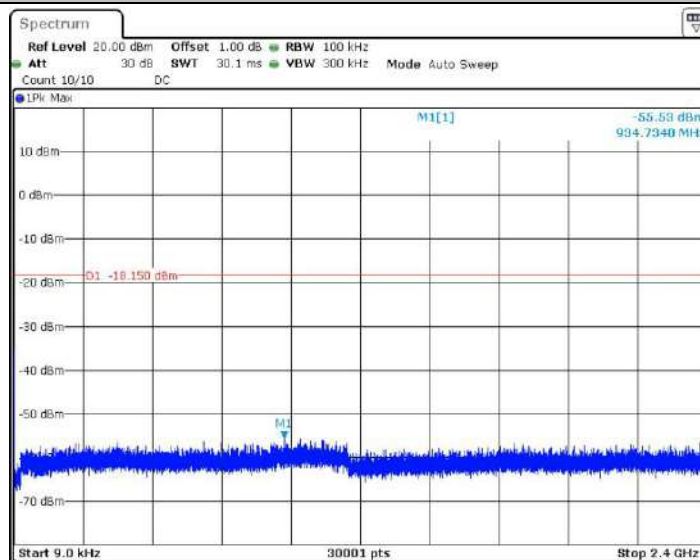
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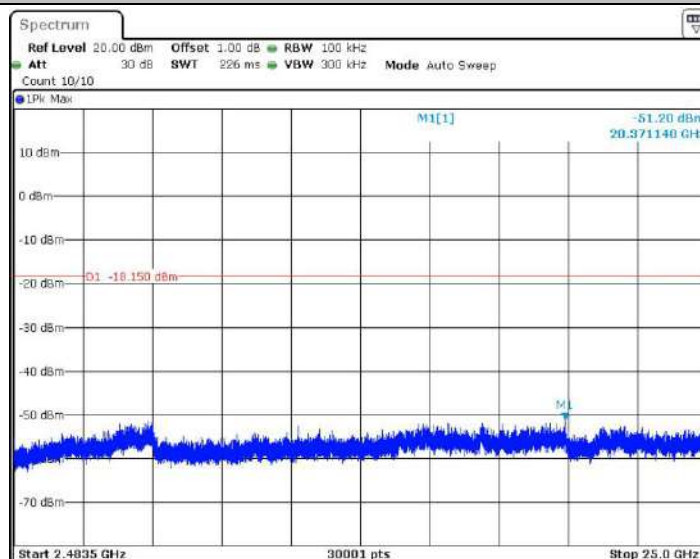
8PSK\_3Mbps\_Ant1\_2441\_2483.5~25000



8PSK\_3Mbps\_Ant1\_2480\_0~Reference



8PSK\_3Mbps\_Ant1\_2480\_0.009~2400



8PSK\_3Mbps\_Ant1\_2480\_2483.5~25000