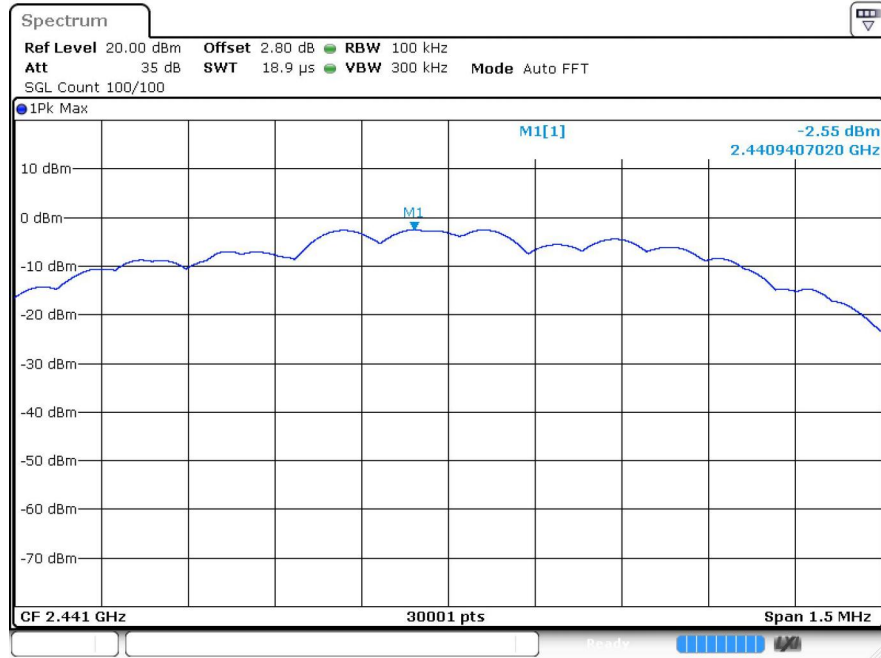
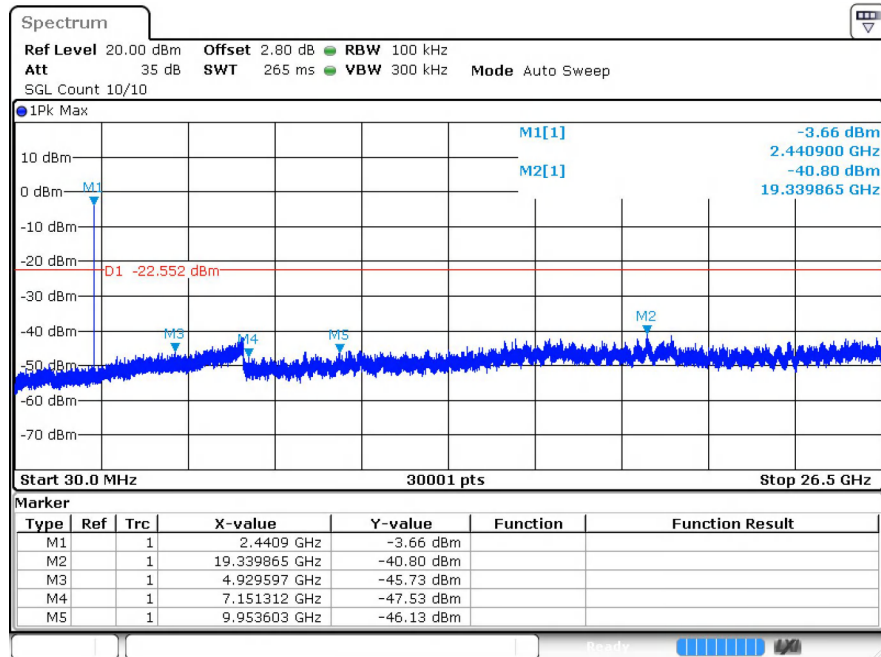


# $\pi$ /4DQPSK\_MCH\_Graphs

Pref

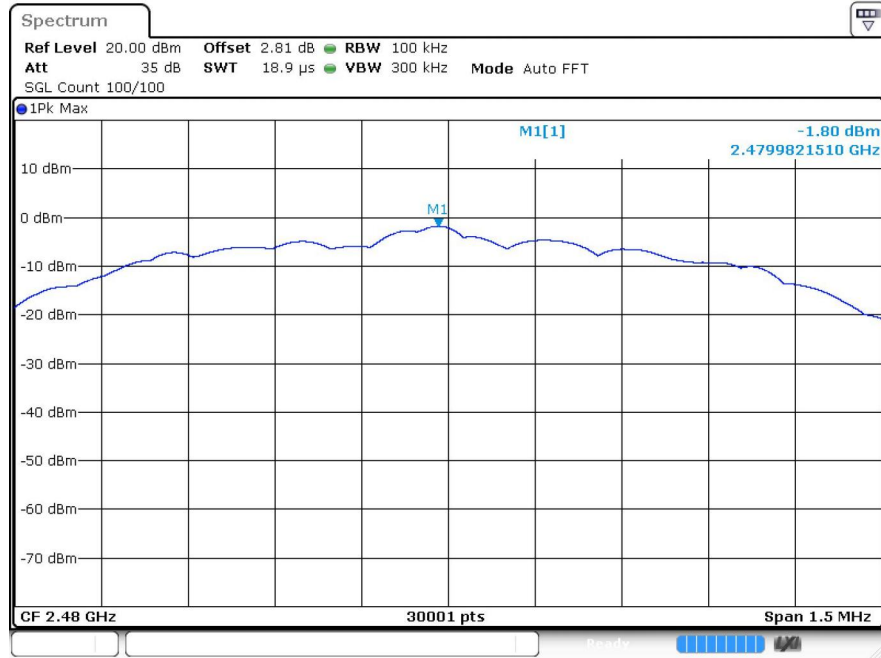


Puw

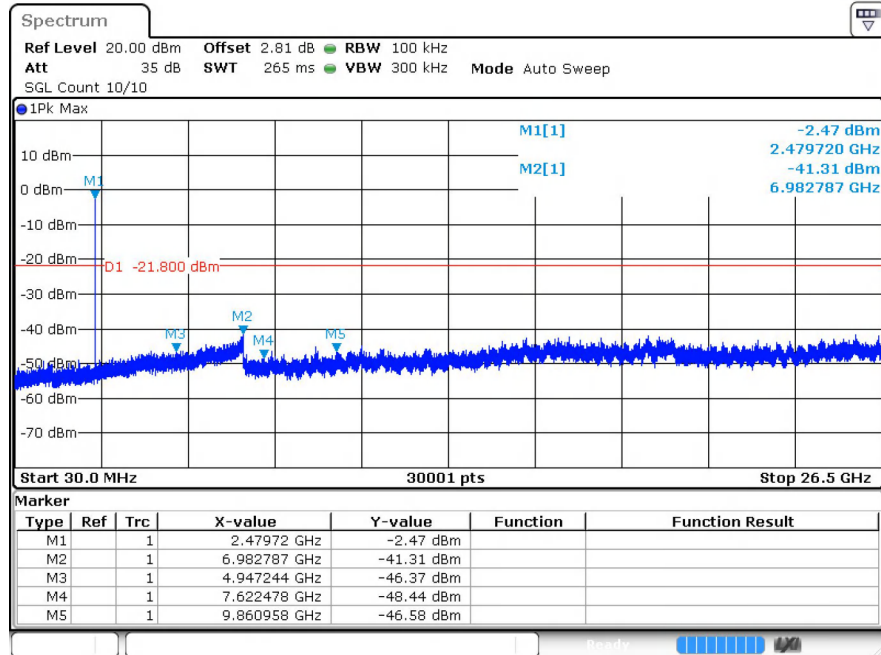


### $\pi/4$ DQPSK\_HCH\_Graphs

Pref

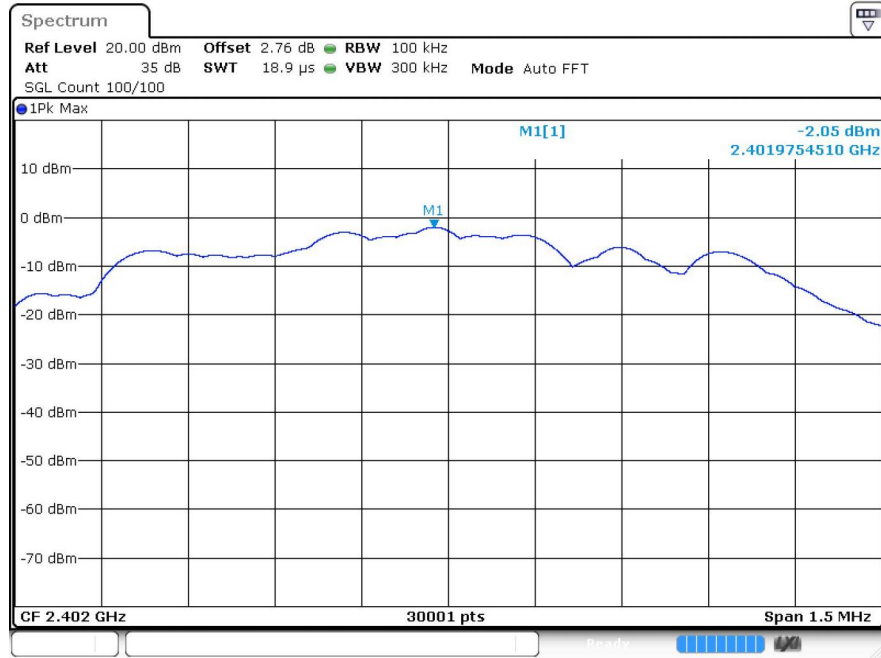


Puw

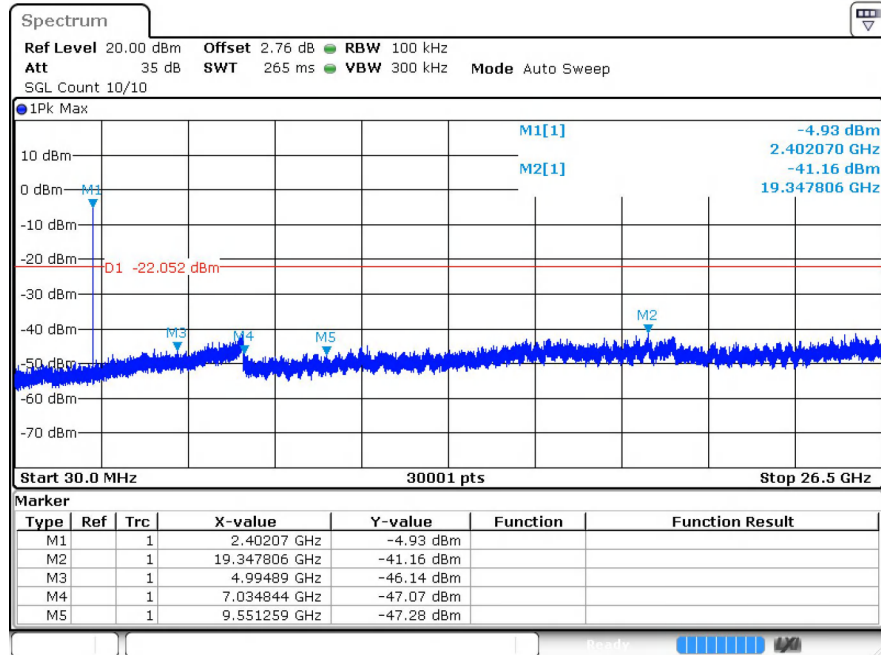


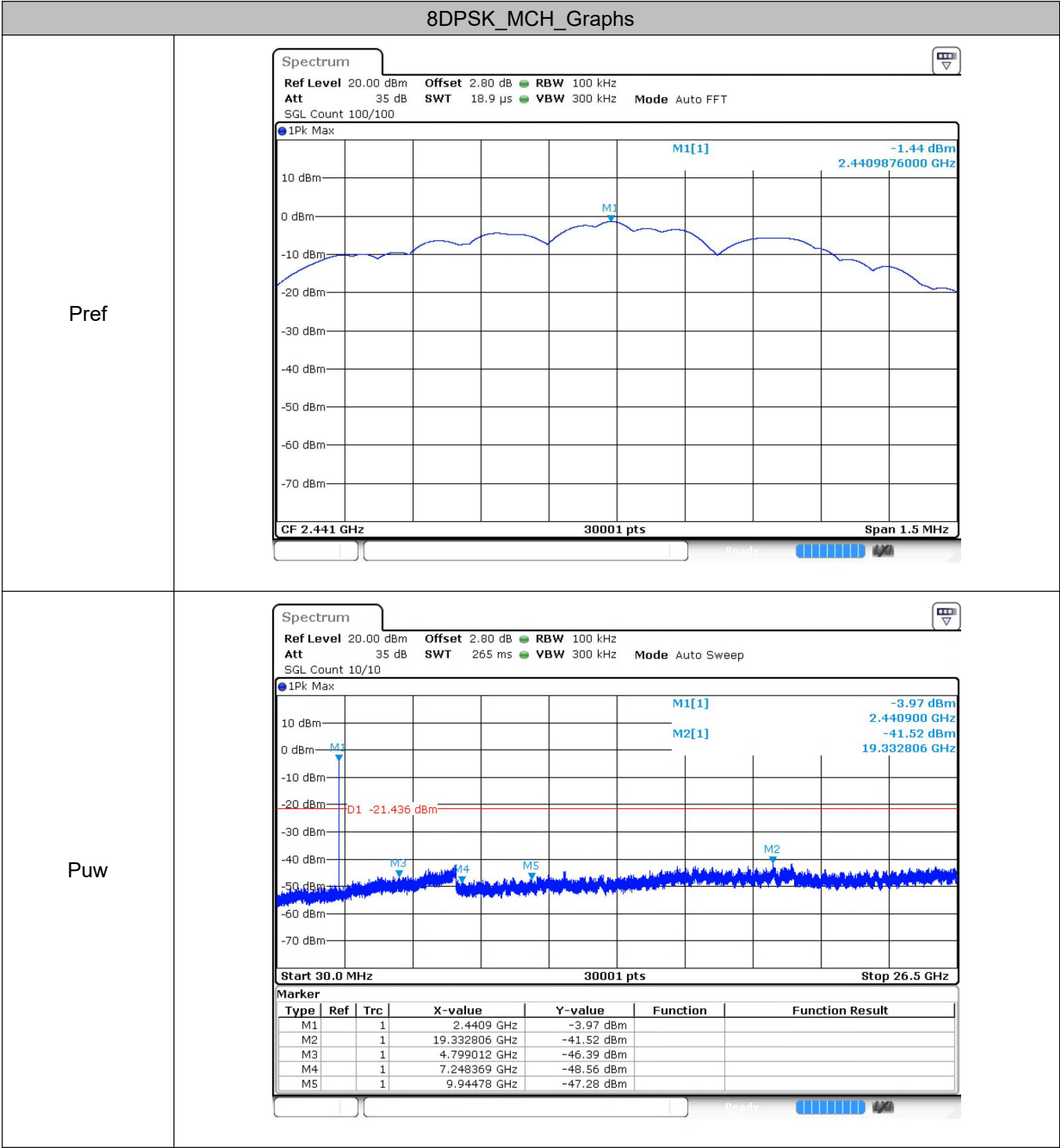
## 8DPSK\_LCH\_Graphs

Pref

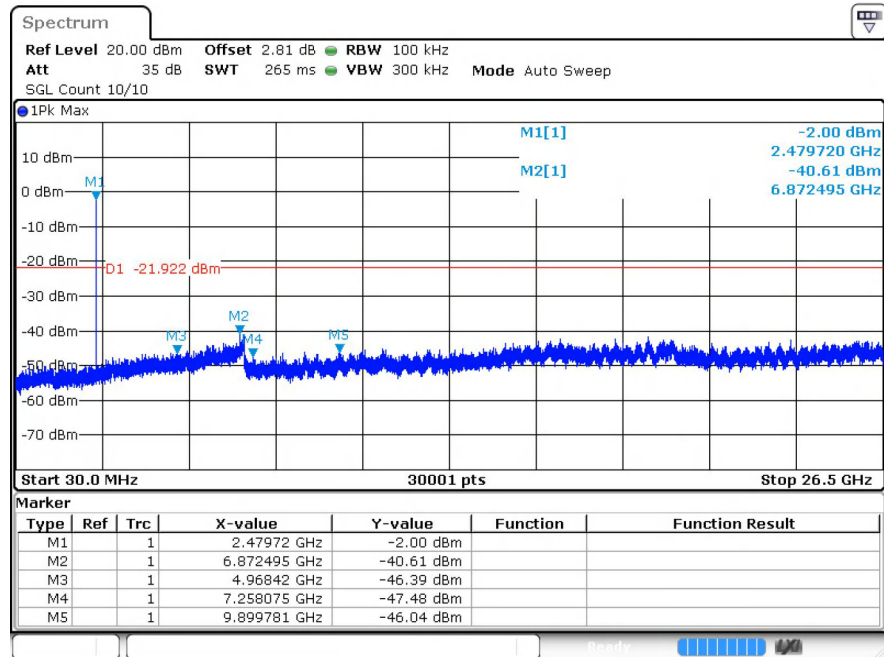


Puw





Puw

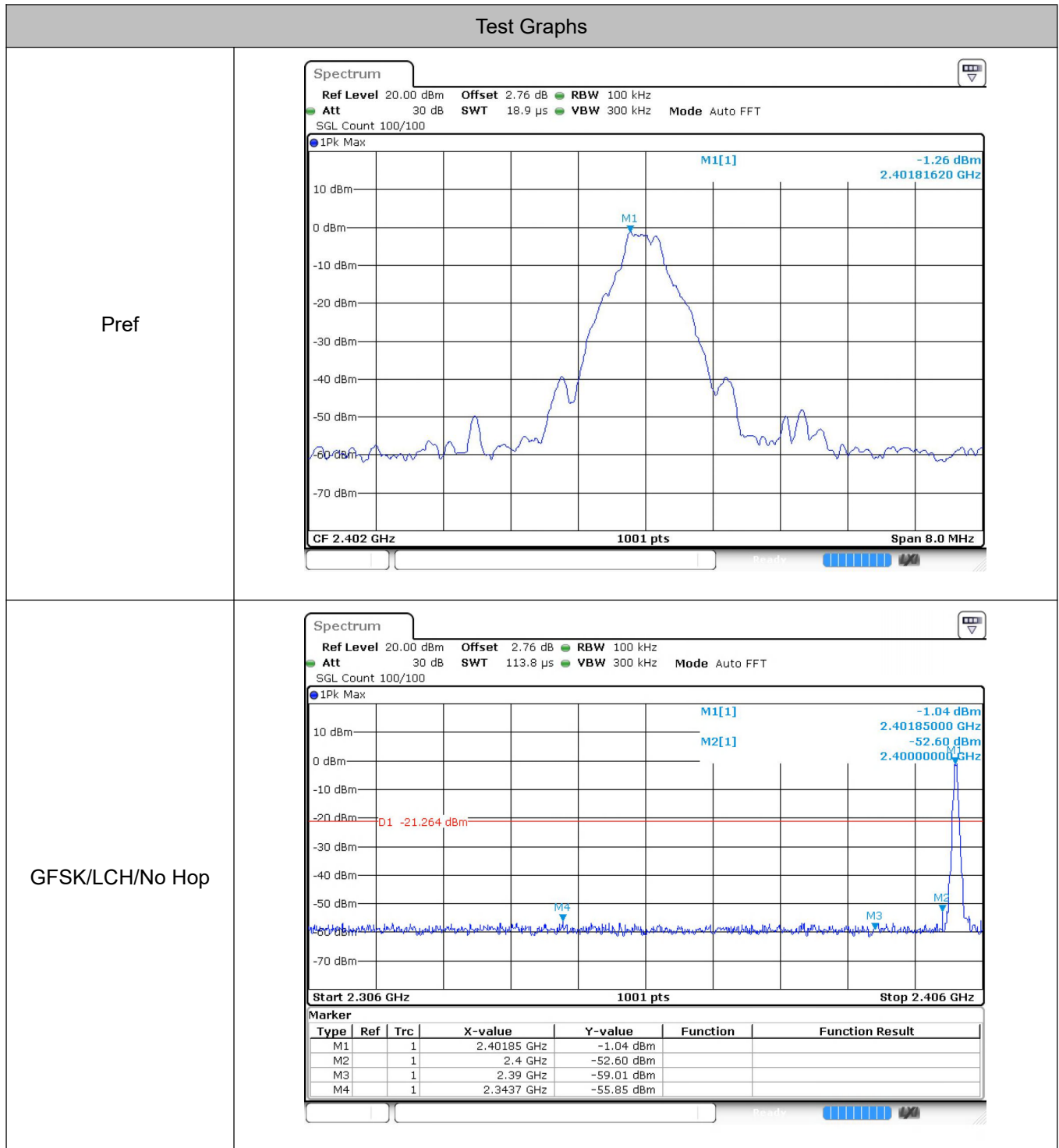


## 8 Band-edge for RF Conducted Emissions

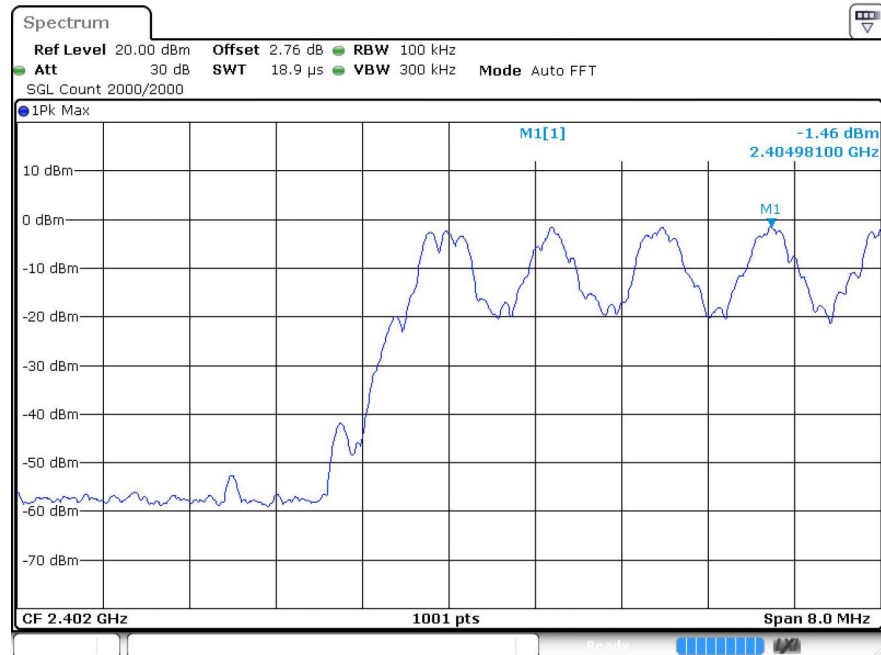
### 8.1 Test Result

| Mode          | Channel | Carrier Frequency [MHz] | Frequency Hopping | Max Spurious Level [dBc] | Limit [dBc] | Verdict |
|---------------|---------|-------------------------|-------------------|--------------------------|-------------|---------|
| GFSK          | LCH     | 2402                    | Off               | -54.58                   | -20         | Pass    |
|               |         |                         | On                | -53.55                   | -20         | Pass    |
|               | HCH     | 2480                    | Off               | -45.73                   | -20         | Pass    |
|               |         |                         | On                | -50.26                   | -20         | Pass    |
| $\pi/4$ DQPSK | LCH     | 2402                    | Off               | -53.76                   | -20         | Pass    |
|               |         |                         | On                | -51.1                    | -20         | Pass    |
|               | HCH     | 2480                    | Off               | -50.02                   | -20         | Pass    |
|               |         |                         | On                | -45.35                   | -20         | Pass    |
| 8DPSK         | LCH     | 2402                    | Off               | -53                      | -20         | Pass    |
|               |         |                         | On                | -52.29                   | -20         | Pass    |
|               | HCH     | 2480                    | Off               | -50.66                   | -20         | Pass    |
|               |         |                         | On                | -46.34                   | -20         | Pass    |

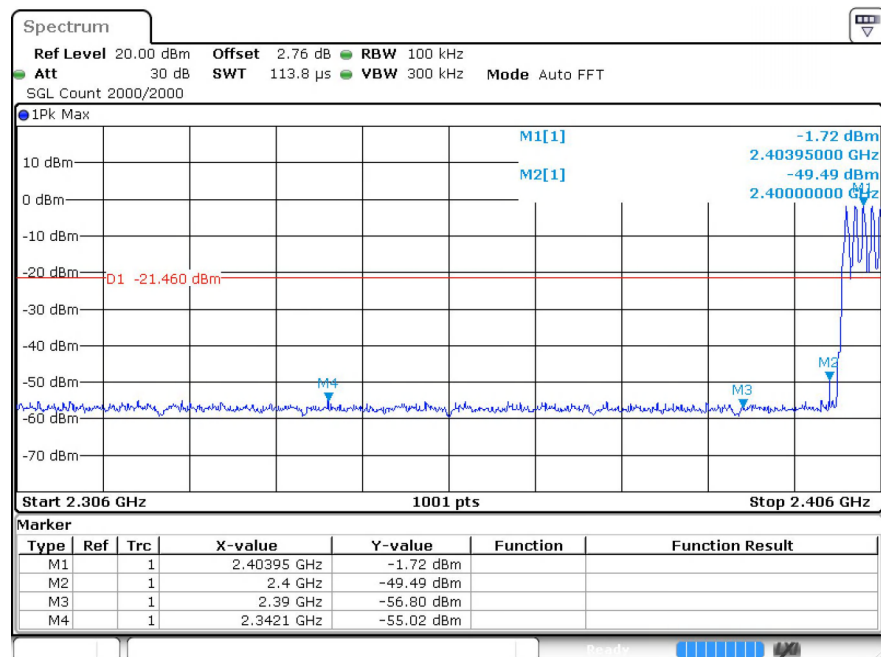
## 8.2 Test Graphs



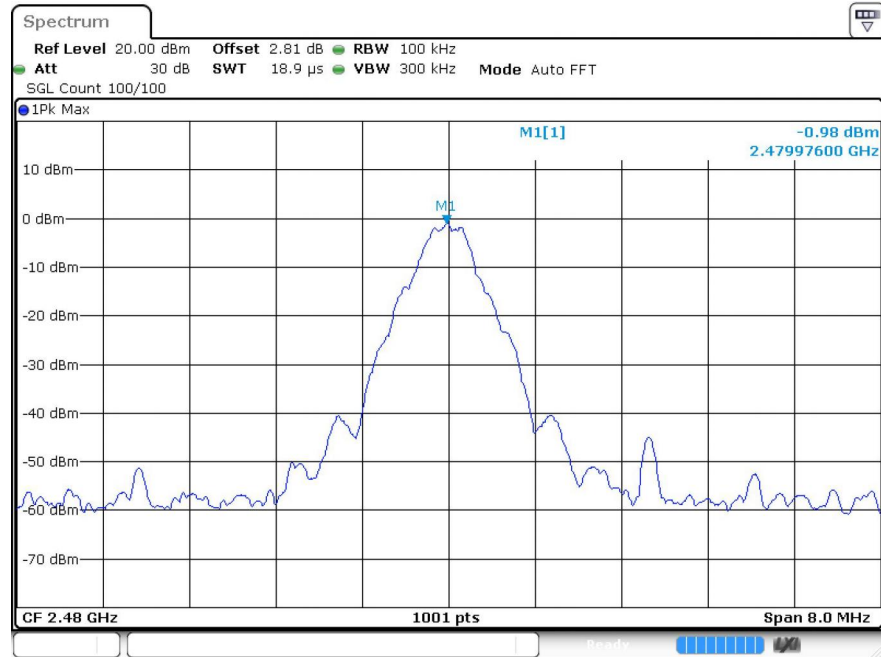
Ref



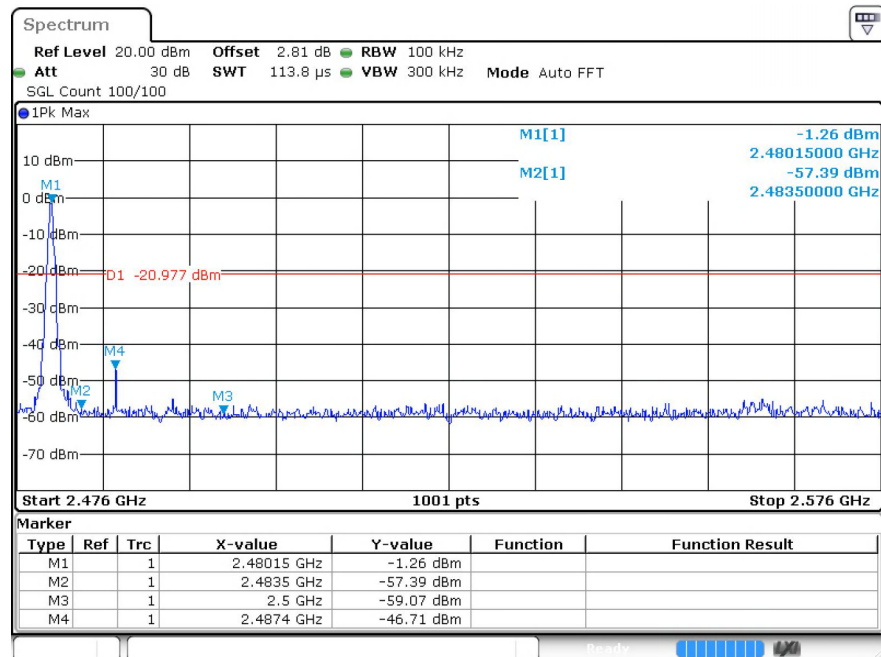
GFSK/LCH/Hop



Ref



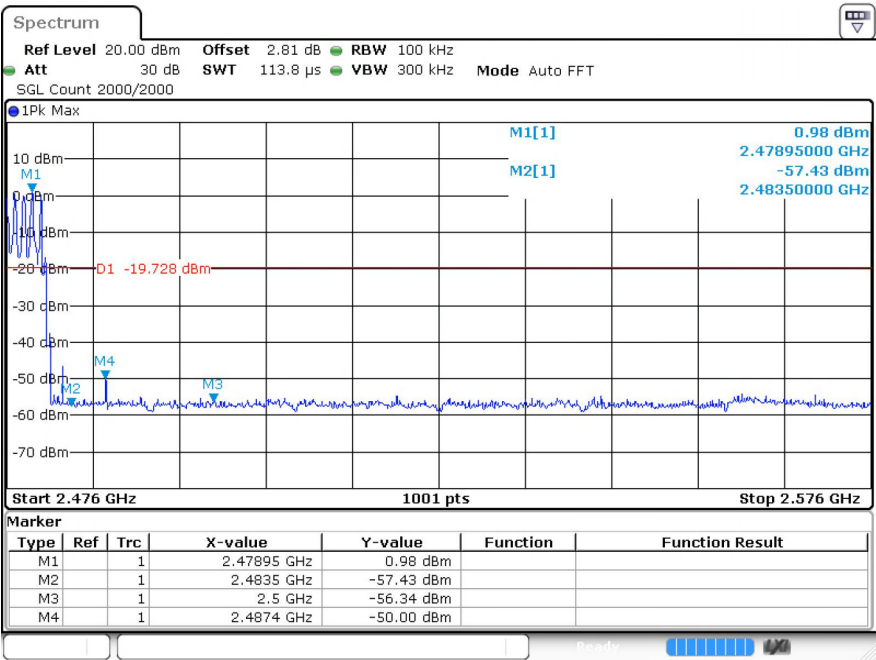
GFSK/HCH/No Hop

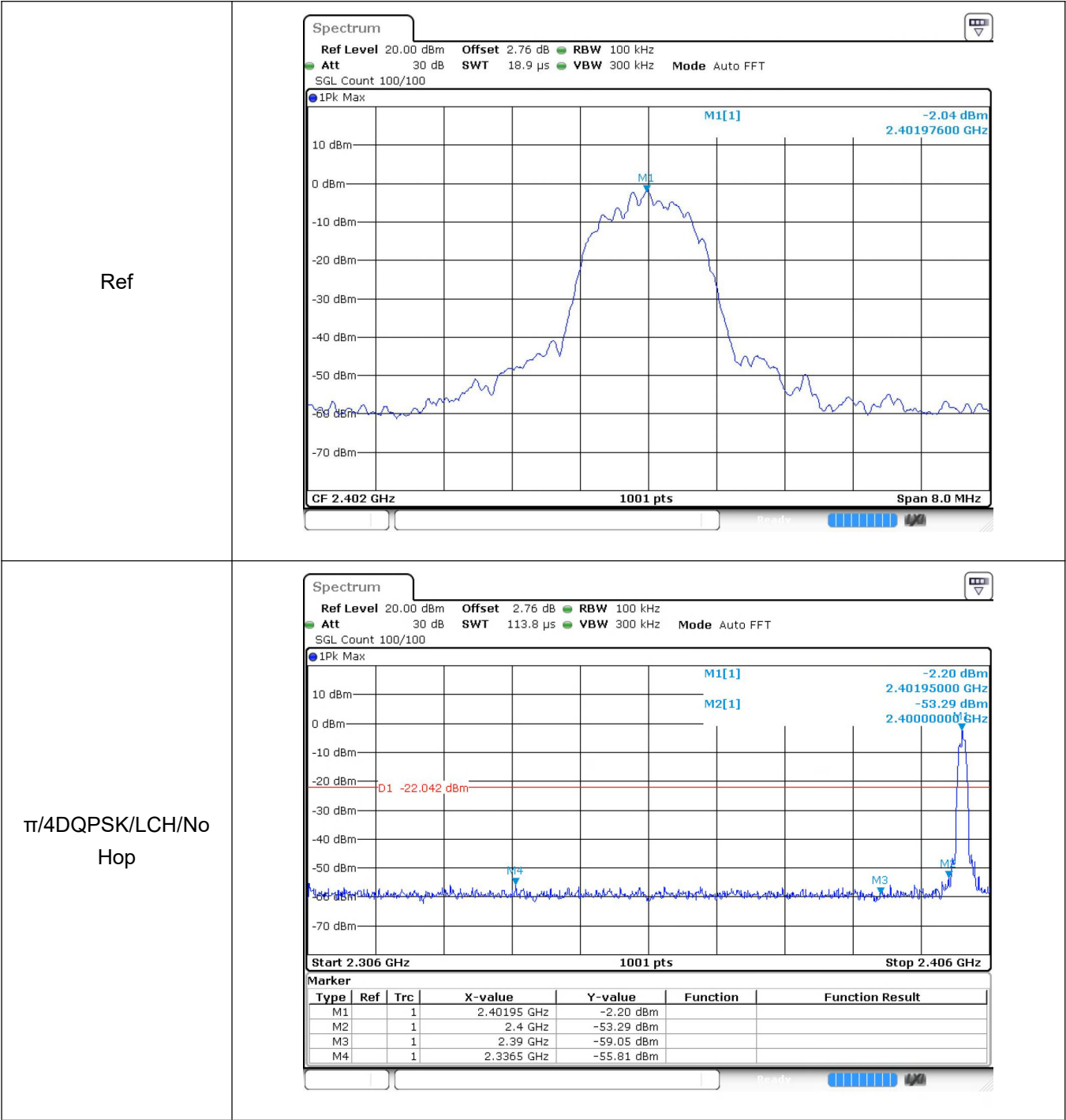


Ref.

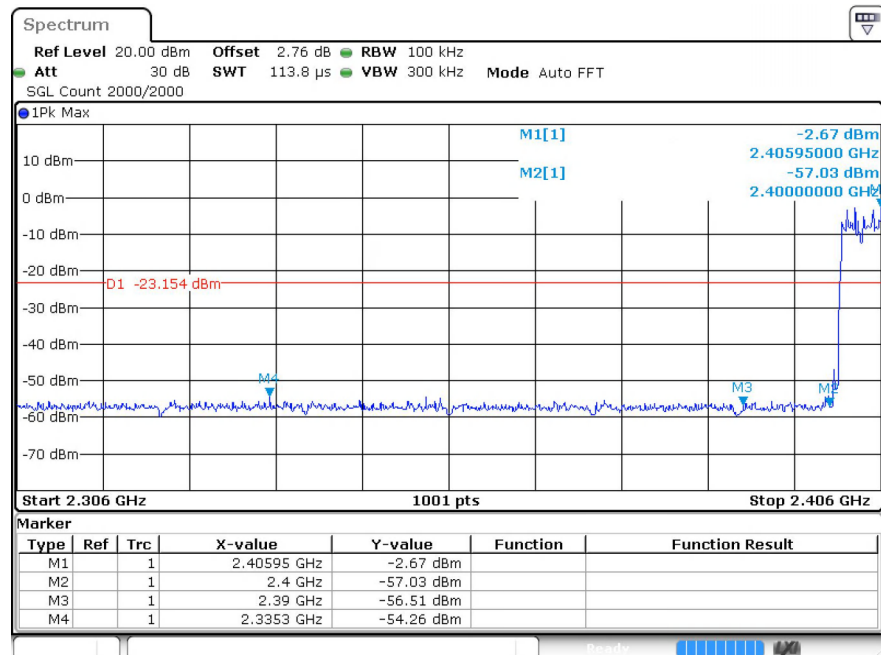


GFSK/HCH/Hop





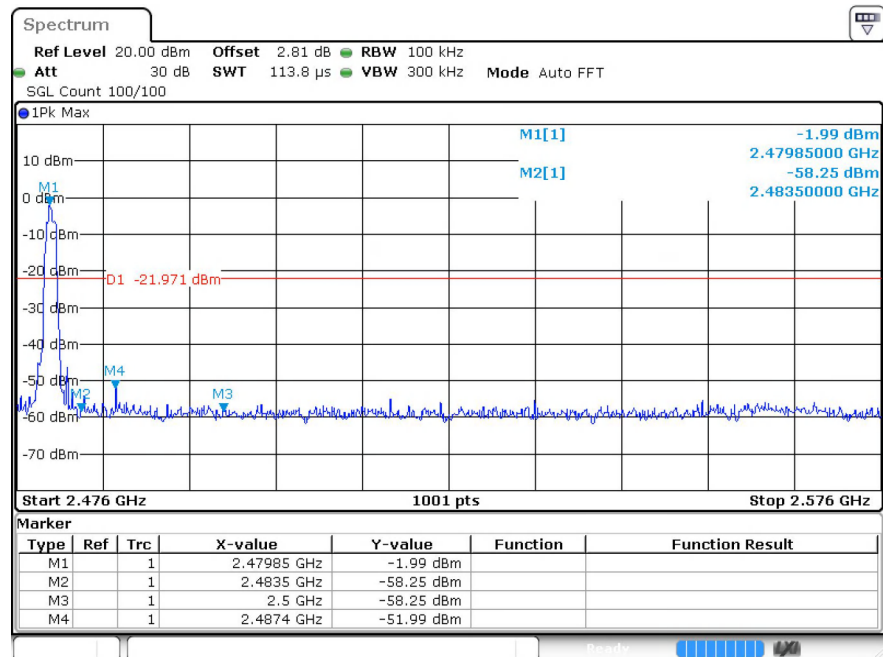
Ref


 $\pi/4$ DQPSK/LCH/Hop


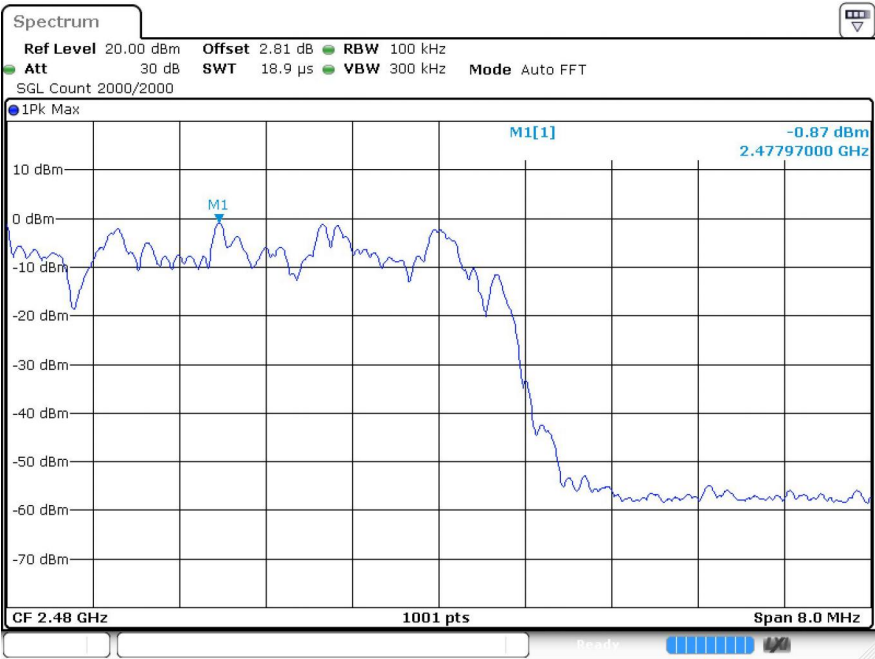
Ref



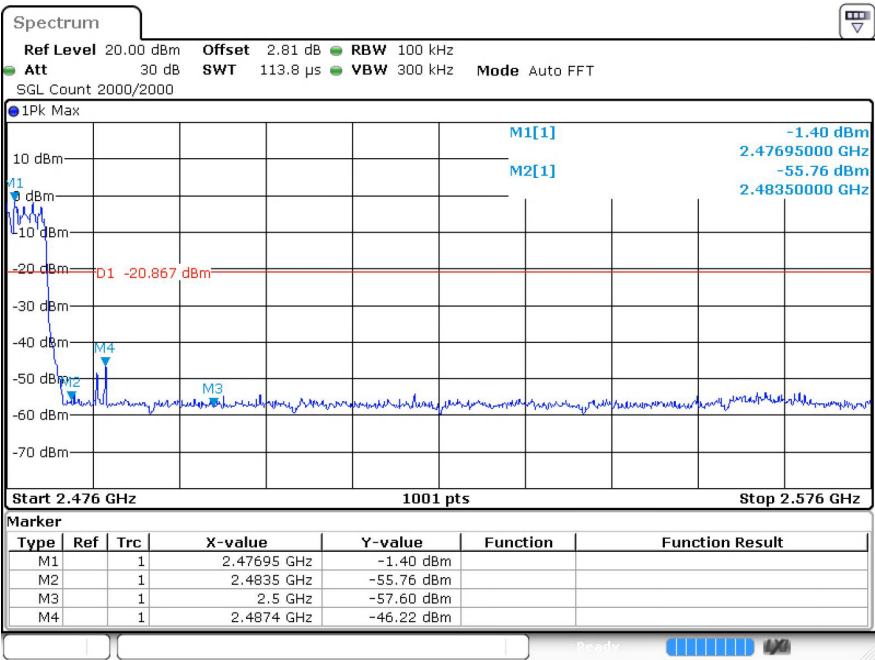
$\pi/4$ DQPSK/HCH/No Hop



Ref



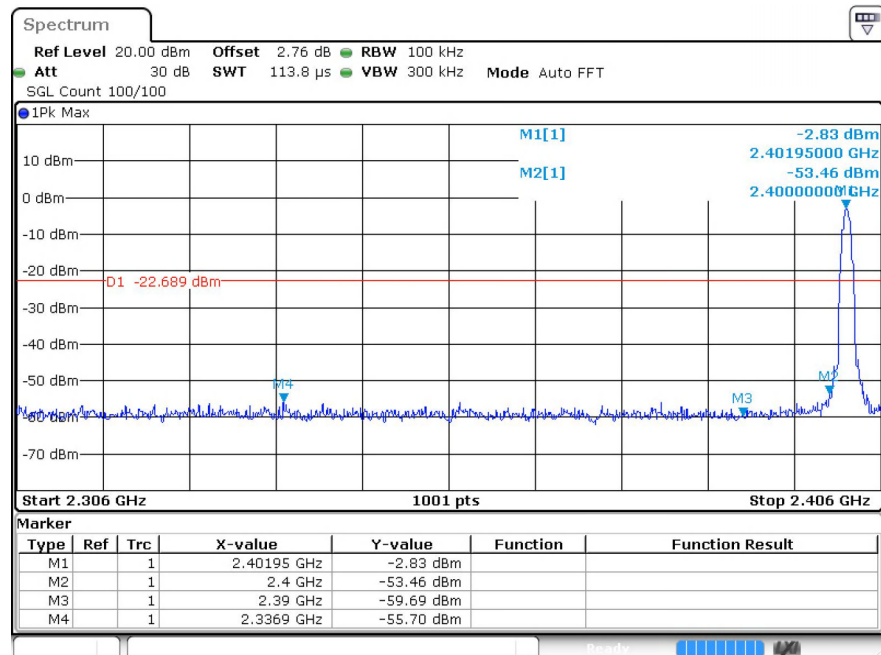
$\pi/4$ DQPSK/HCH/Hop



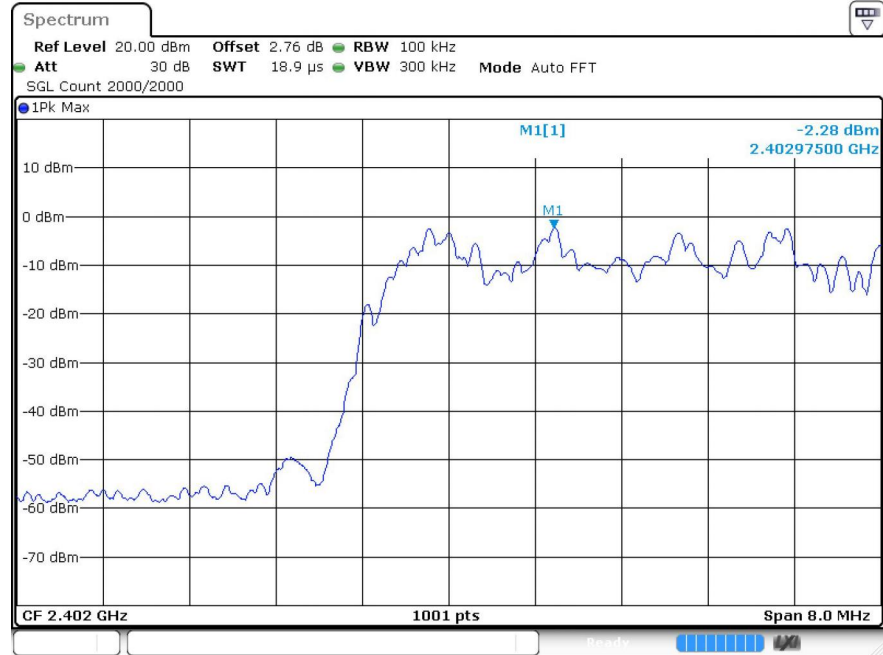
Ref



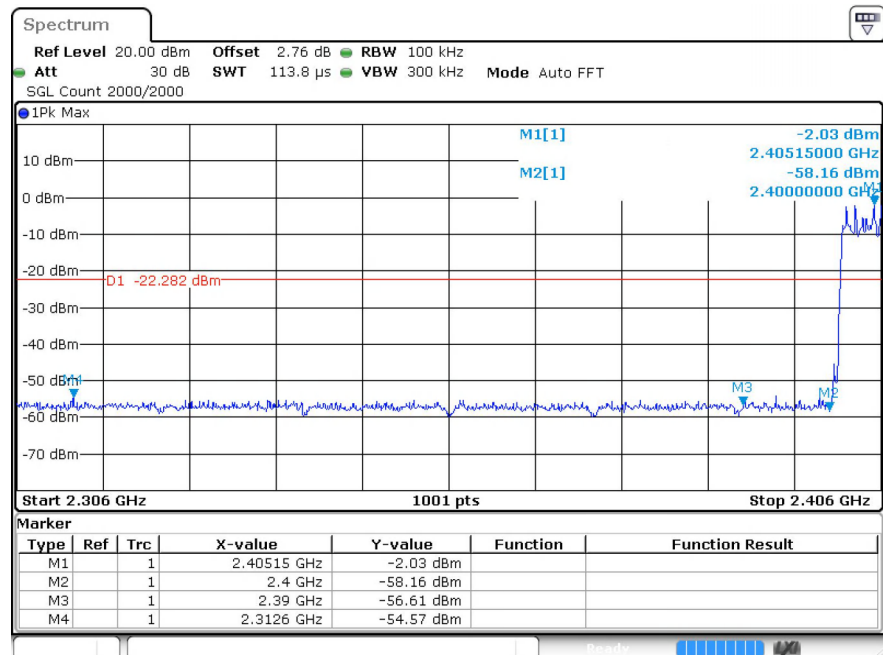
8DPSK/LCH/No Hop



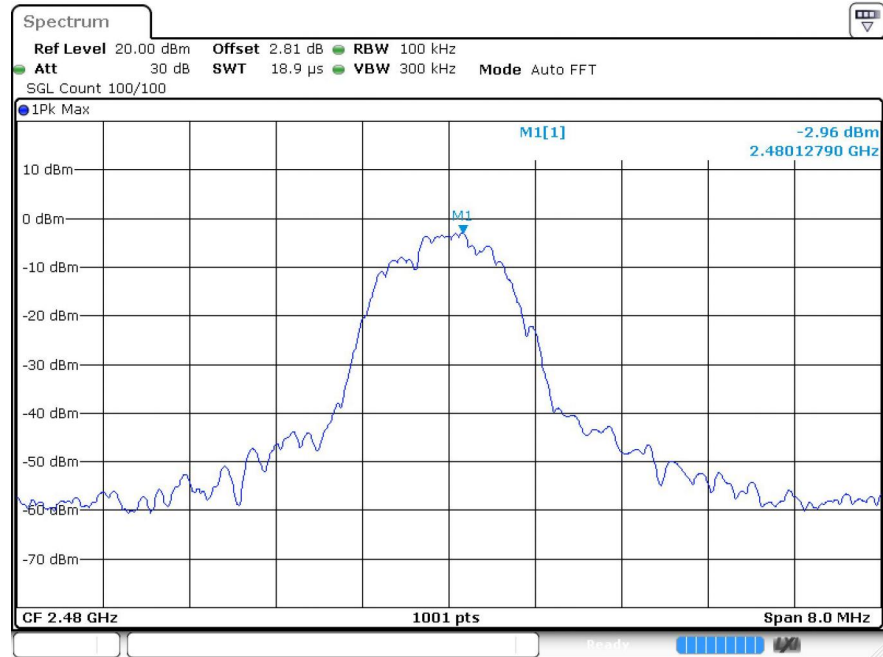
Ref



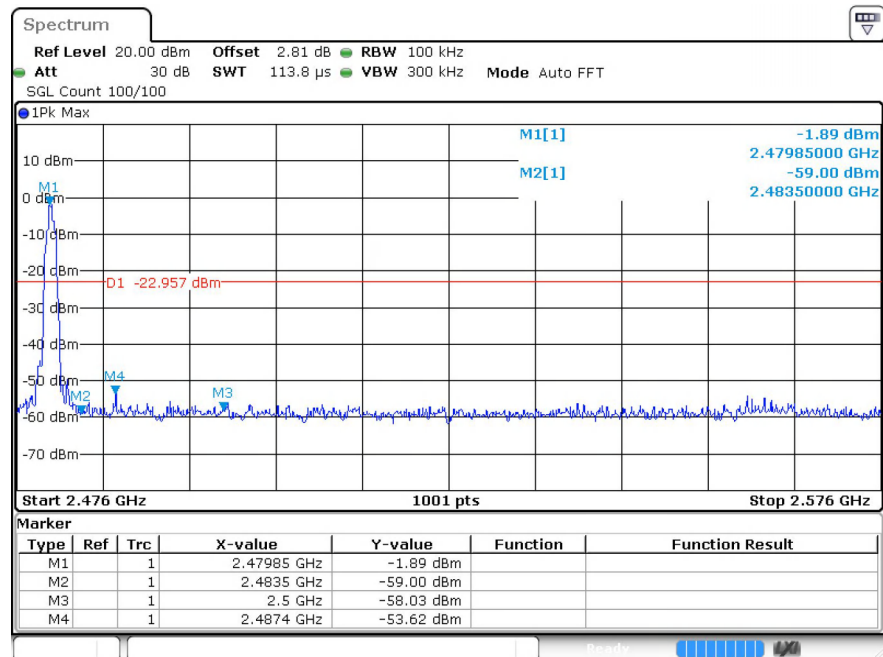
8DPSK/LCH/Hop



Ref



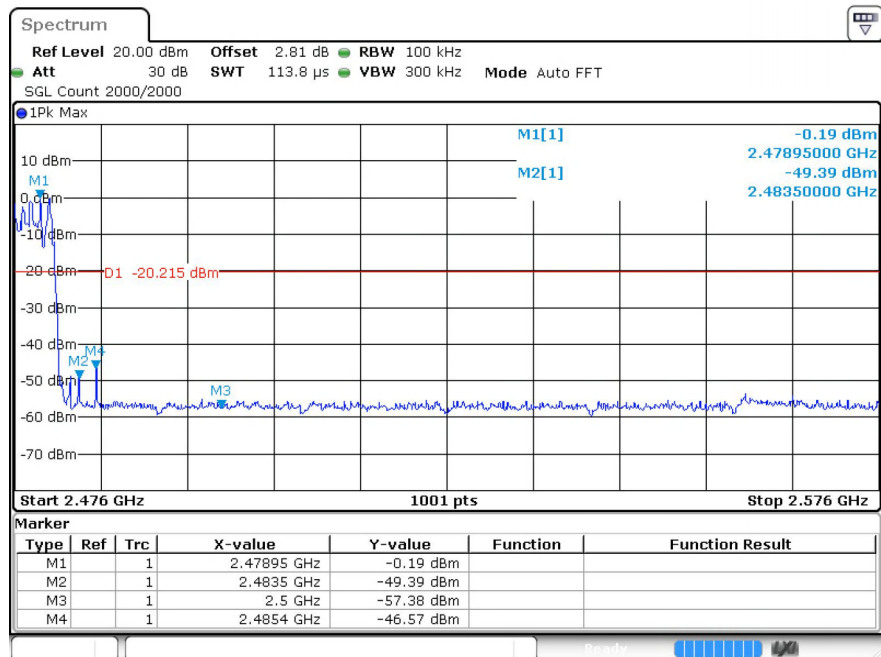
8DPSK/HCH/No Hop



Ref



8DPSK/HCH/Hop



## 9 Restrict-band band-edge measurements

### 9.1 Test Result

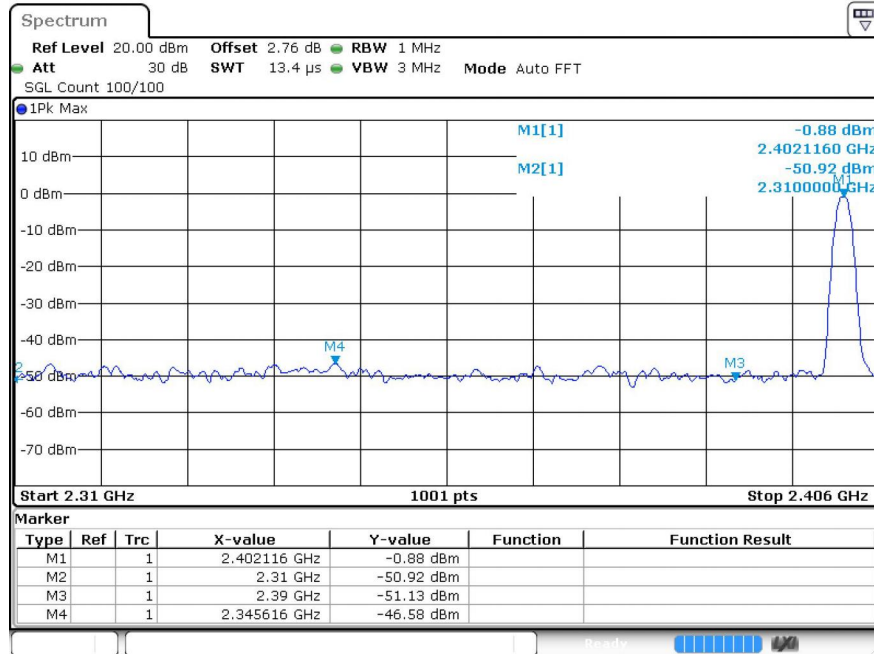
| Test Mode     | Hopping | Freq.    | Power [dBm] | Gain | Duty Factor | E [dBuV/m] | Detector | Limit [dBuV/m] | Verdict |
|---------------|---------|----------|-------------|------|-------------|------------|----------|----------------|---------|
| GFSK          | Off     | 2310.0   | -50.92      | 3.3  | -           | 47.64      | PEAK     | 74             | Pass    |
|               | Off     | 2310.0   | -57.08      | 3.3  | 5.06        | 46.54      | AV       | 54             | Pass    |
|               | Off     | 2345.616 | -46.58      | 3.3  | -           | 51.98      | PEAK     | 74             | Pass    |
|               | Off     | 2338.32  | -54.38      | 3.3  | 5.06        | 49.24      | AV       | 54             | Pass    |
|               | Off     | 2390.0   | -51.13      | 3.3  | -           | 47.43      | PEAK     | 74             | Pass    |
|               | Off     | 2390.0   | -57.32      | 3.3  | 5.06        | 46.3       | AV       | 54             | Pass    |
|               | Off     | 2483.5   | -48.59      | 3.3  | -           | 49.97      | PEAK     | 74             | Pass    |
|               | Off     | 2483.5   | -56.26      | 3.3  | 5.06        | 47.36      | AV       | 54             | Pass    |
|               | Off     | 2486.176 | -47.04      | 3.3  | -           | 51.52      | PEAK     | 74             | Pass    |
|               | Off     | 2499.16  | -55.24      | 3.3  | 5.06        | 48.38      | AV       | 54             | Pass    |
|               | Off     | 2500.0   | -48.15      | 3.3  | -           | 50.41      | PEAK     | 74             | Pass    |
|               | Off     | 2500.0   | -56.22      | 3.3  | 5.06        | 47.4       | AV       | 54             | Pass    |
| $\pi/4$ DQPSK | Off     | 2310.0   | -50.45      | 3.3  | -           | 48.11      | PEAK     | 74             | Pass    |
|               | Off     | 2310.0   | -56.06      | 3.3  | 4.95        | 47.45      | AV       | 54             | Pass    |
|               | Off     | 2343.6   | -46.55      | 3.3  | -           | 52.01      | PEAK     | 74             | Pass    |
|               | Off     | 2338.224 | -54.42      | 3.3  | 4.95        | 49.09      | AV       | 54             | Pass    |
|               | Off     | 2390.0   | -49.3       | 3.3  | -           | 49.26      | PEAK     | 74             | Pass    |
|               | Off     | 2390.0   | -57.06      | 3.3  | 4.95        | 46.45      | AV       | 54             | Pass    |
|               | Off     | 2483.5   | -48.83      | 3.3  | -           | 49.73      | PEAK     | 74             | Pass    |
|               | Off     | 2483.5   | -56.09      | 3.3  | 4.95        | 47.42      | AV       | 54             | Pass    |
|               | Off     | 2491.48  | -46.97      | 3.3  | -           | 51.59      | PEAK     | 74             | Pass    |
|               | Off     | 2484.232 | -55.21      | 3.3  | 4.95        | 48.3       | AV       | 54             | Pass    |
|               | Off     | 2500.0   | -48.5       | 3.3  | -           | 50.06      | PEAK     | 74             | Pass    |
|               | Off     | 2500.0   | -55.9       | 3.3  | 4.95        | 47.61      | AV       | 54             | Pass    |
| 8DPSK         | Off     | 2310.0   | -50.26      | 3.3  | -           | 48.3       | PEAK     | 74             | Pass    |
|               | Off     | 2310.0   | -57.28      | 3.3  | 4.95        | 46.23      | AV       | 54             | Pass    |
|               | Off     | 2340.144 | -45.61      | 3.3  | -           | 52.95      | PEAK     | 74             | Pass    |
|               | Off     | 2341.968 | -54.31      | 3.3  | 4.95        | 49.2       | AV       | 54             | Pass    |



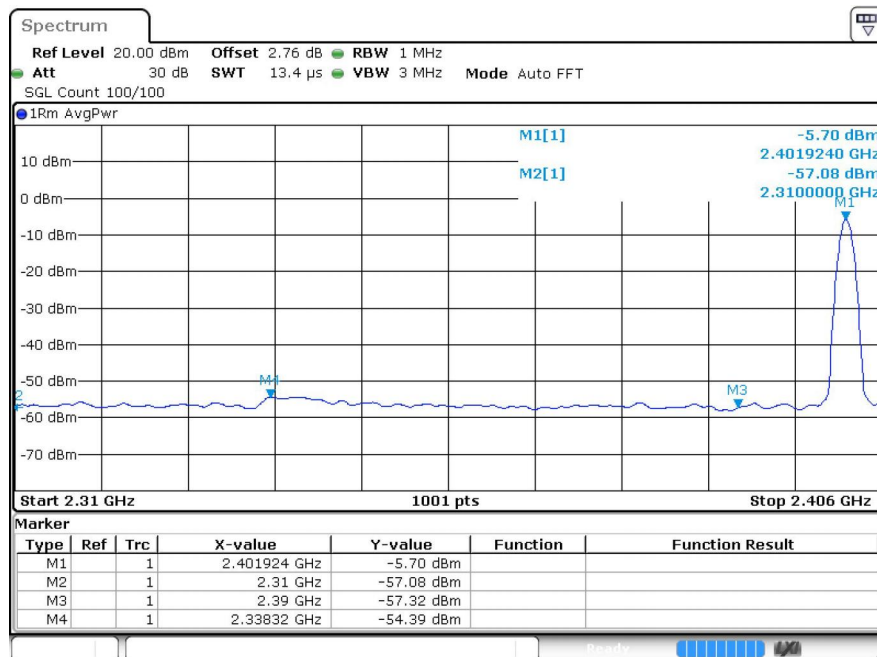
|     |          |        |     |      |       |      |    |      |
|-----|----------|--------|-----|------|-------|------|----|------|
| Off | 2390.0   | -48.66 | 3.3 | -    | 49.9  | PEAK | 74 | Pass |
| Off | 2390.0   | -56.98 | 3.3 | 4.95 | 46.53 | AV   | 54 | Pass |
| Off | 2483.5   | -48.83 | 3.3 | -    | 49.73 | PEAK | 74 | Pass |
| Off | 2483.5   | -56.37 | 3.3 | 4.95 | 47.14 | AV   | 54 | Pass |
| Off | 2487.352 | -45.29 | 3.3 | -    | 53.27 | PEAK | 74 | Pass |
| Off | 2487.472 | -55.57 | 3.3 | 4.95 | 47.94 | AV   | 54 | Pass |
| Off | 2500.0   | -48.63 | 3.3 | -    | 49.93 | PEAK | 74 | Pass |
| Off | 2500.0   | -56.43 | 3.3 | 4.95 | 47.08 | AV   | 54 | Pass |

## 9.2 Test Graphs

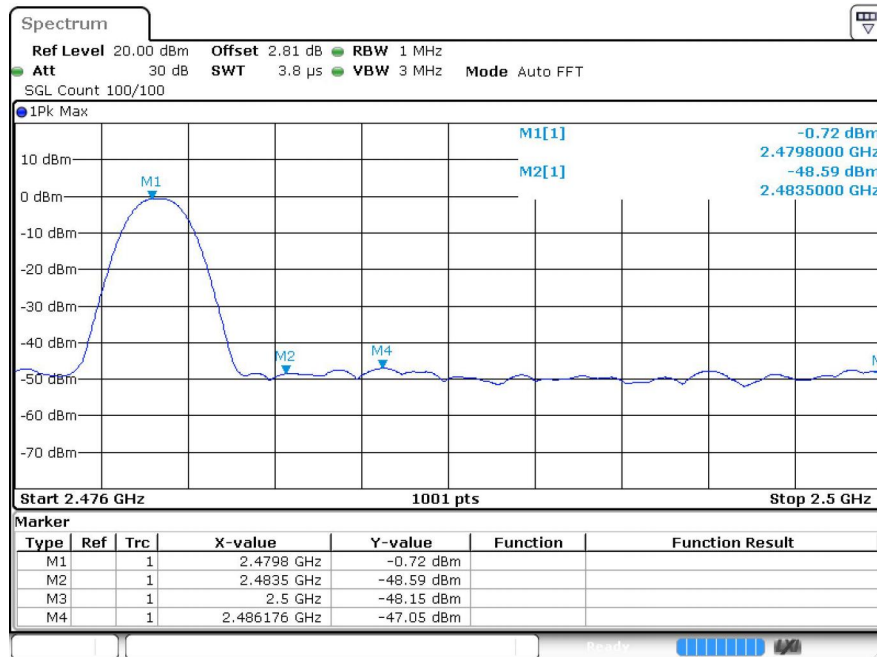
Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_PEAK (Low Channel)



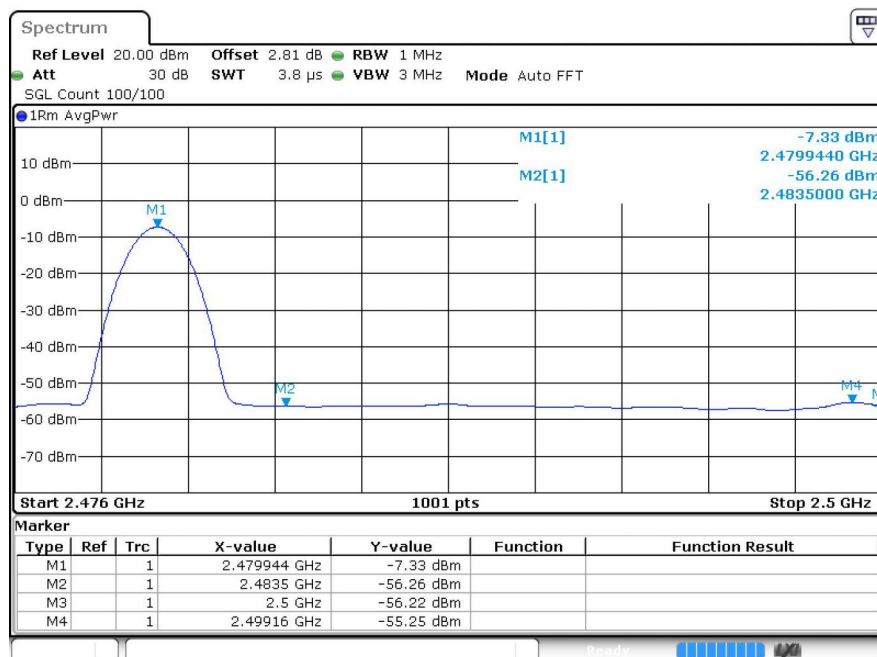
Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (Low Channel)



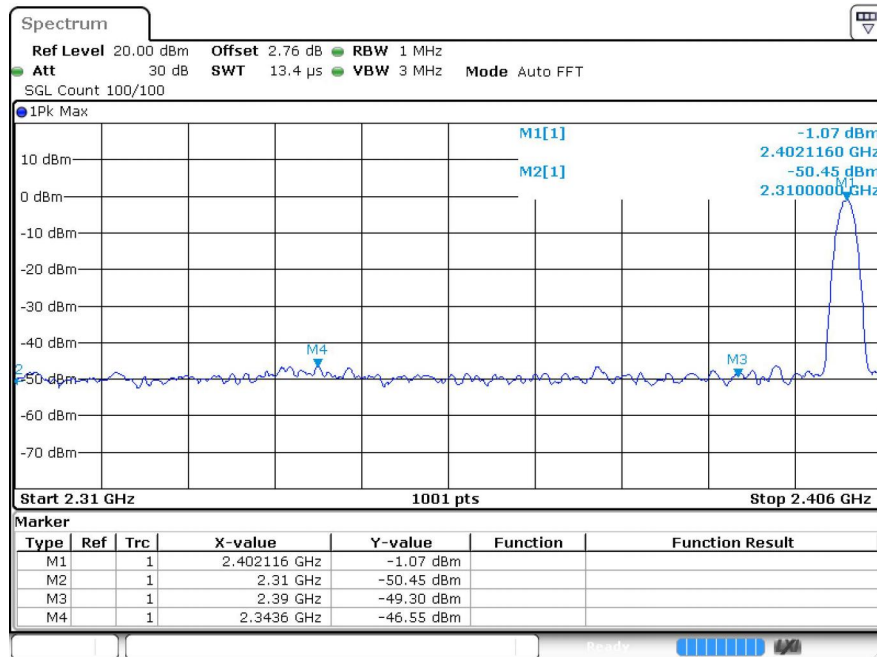
## Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_PEAK (High Channel)



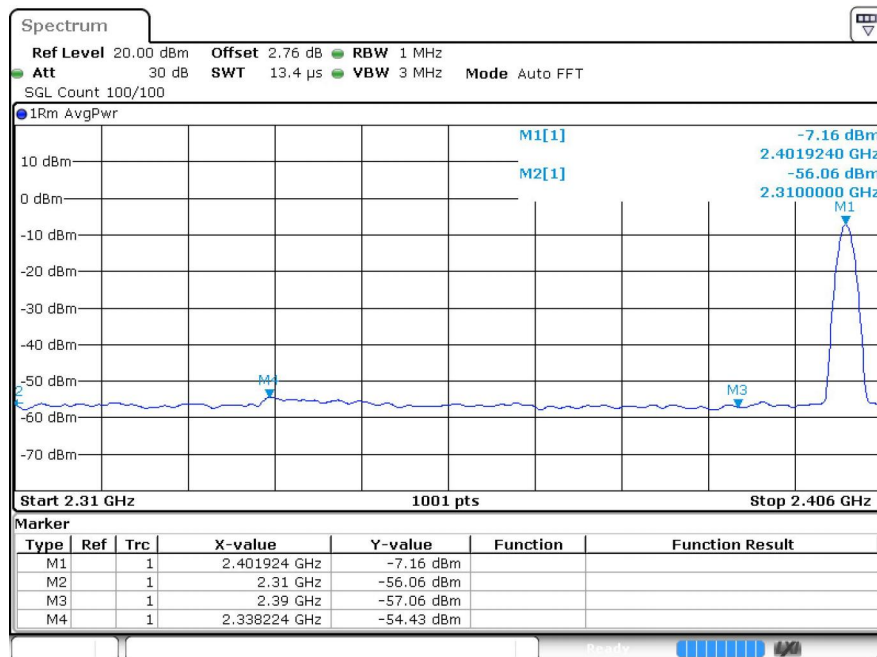
## Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (High Channel)



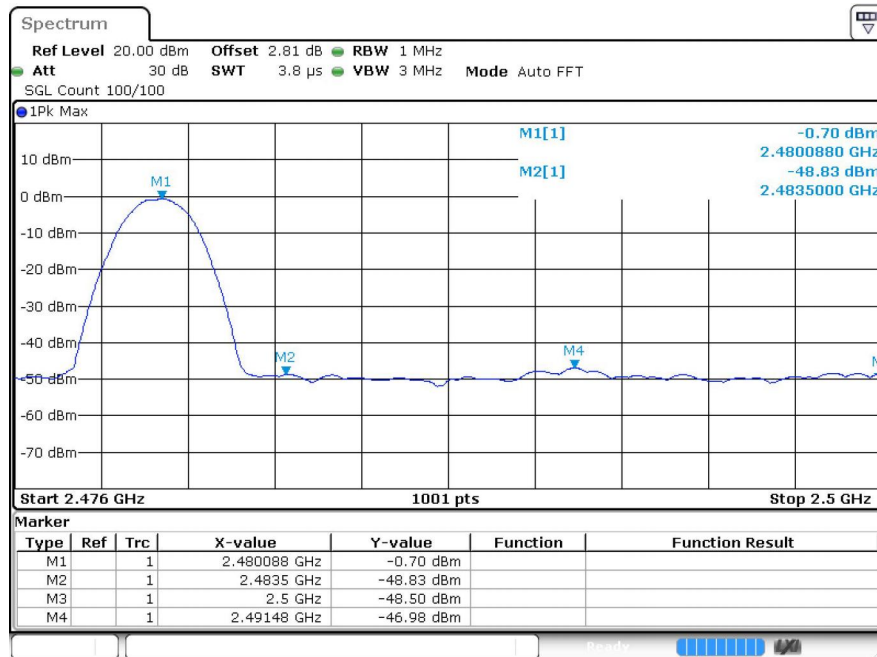
## Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (Low Channel)



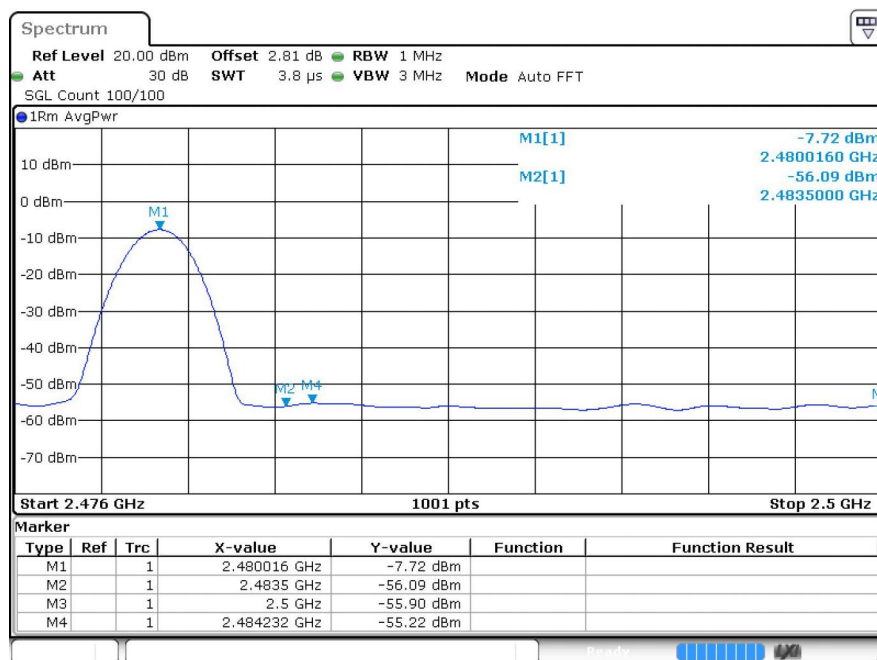
## Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (Low Channel)



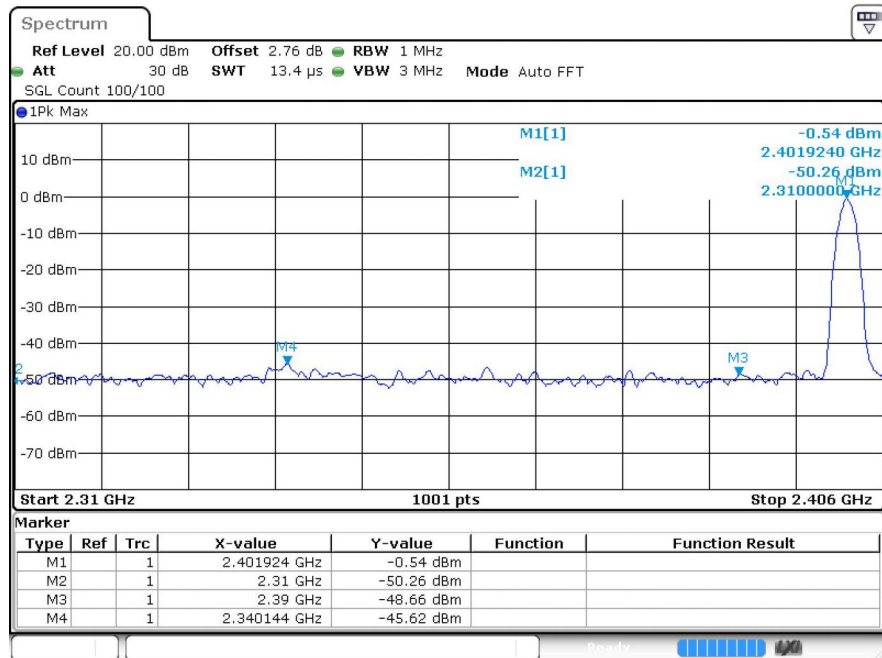
### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (High Channel)



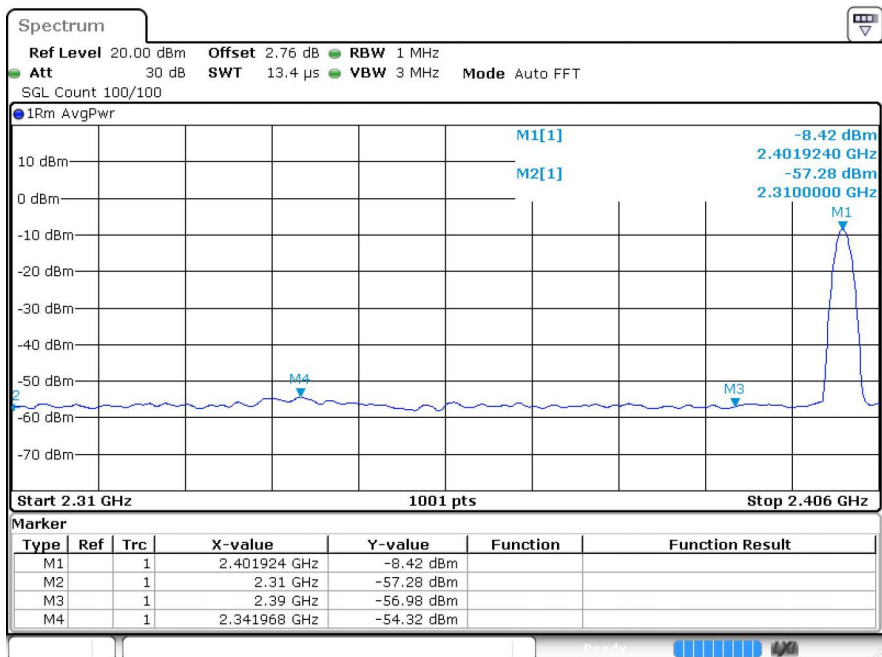
### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (High Channel)



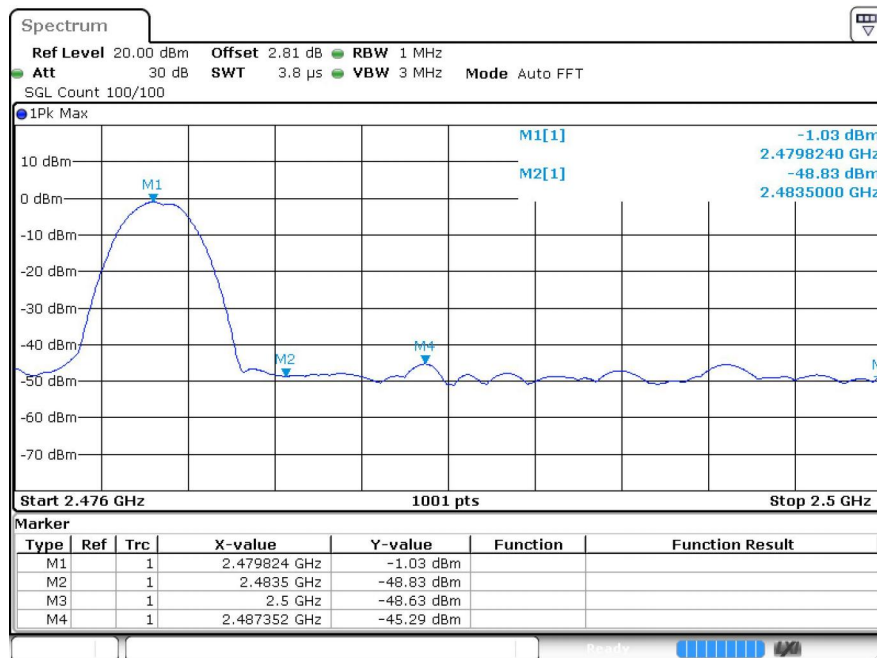
## Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_PEAK (Low Channel)



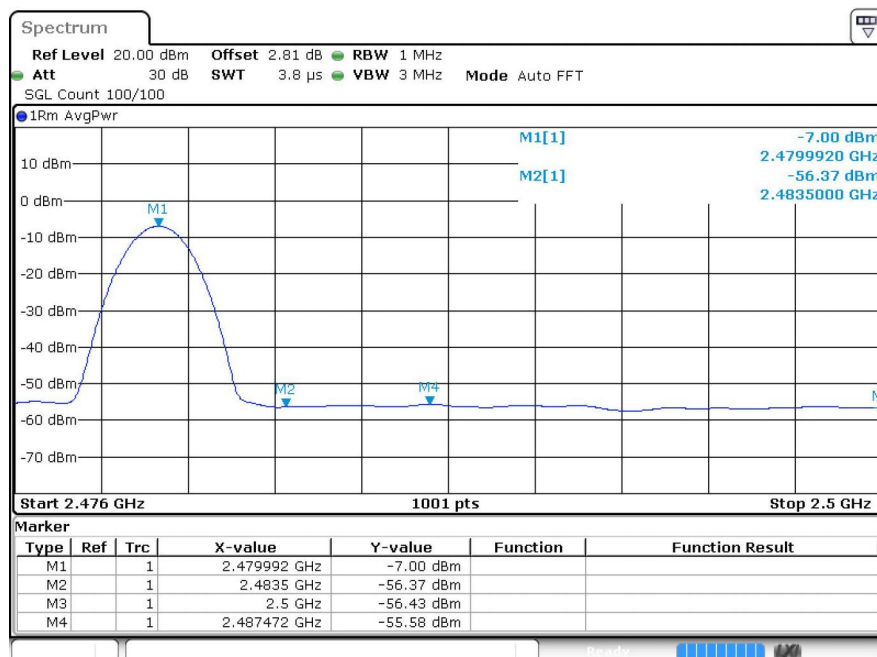
## Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_Average (Low Channel)



### Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_PEAK (High Channel)



### Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_Average (High Channel)



---The End---