



Appendix A

RF Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name:Tablet PC

Trade Mark:Blackview

Test Model:Tab 50 WiFi

Environmental Conditions

|                    |             |
|--------------------|-------------|
| Temperature:       | 25℃         |
| Relative Humidity: | 52%         |
| ATM Pressure:      | 101Kpa      |
| Test Engineer:     | Simba Huang |
| Supervised by:     | Seal Chen   |



Contents

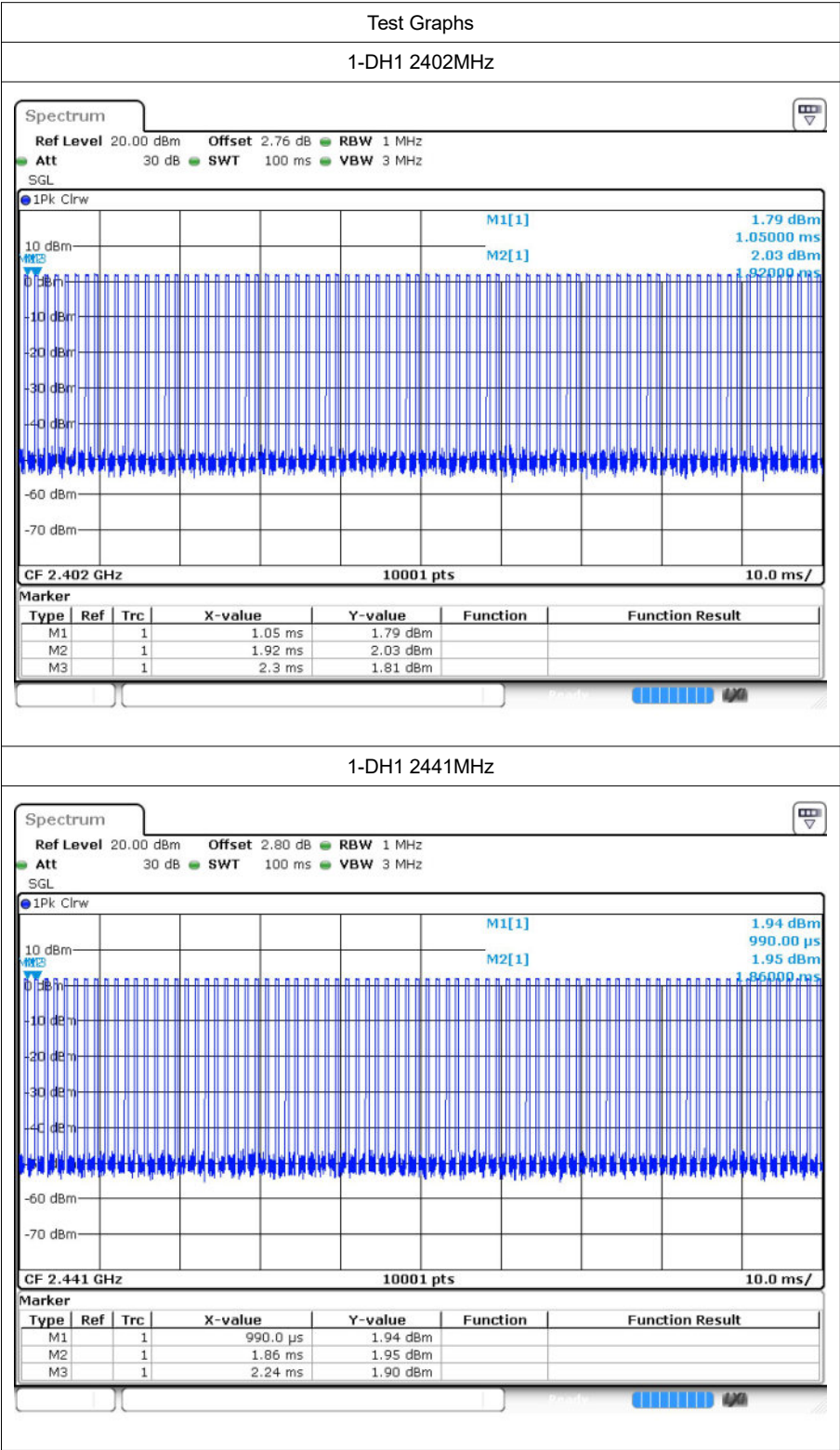
|                                              | Page |
|----------------------------------------------|------|
| <b>COVER PAGE</b>                            |      |
| 1 Duty Cycle.....                            | 3    |
| 1.1 Test Result.....                         | 3    |
| 1.2 Test Graphs.....                         | 4    |
| 2 Maximum Conducted Peak Output Power.....   | 9    |
| 2.1 Test Result.....                         | 9    |
| 2.2 Test Graphs.....                         | 10   |
| 3 20dB Bandwidth.....                        | 15   |
| 3.1 Test Result.....                         | 15   |
| 3.2 Test Graphs.....                         | 16   |
| 4 Occupied Bandwidth.....                    | 21   |
| 4.1 Test Result.....                         | 21   |
| 4.2 Test Graphs.....                         | 22   |
| 5 Carrier Frequency Separation.....          | 27   |
| 5.1 Test Result.....                         | 27   |
| 5.2 Test Graphs.....                         | 28   |
| 6 Hopping Channel Number.....                | 30   |
| 6.1 Test Result.....                         | 30   |
| 6.2 Test Graphs.....                         | 31   |
| 7 Dwell Time.....                            | 33   |
| 7.1 Test Result.....                         | 33   |
| 7.2 Test Graphs.....                         | 34   |
| 8 RF Conducted Spurious Emissions.....       | 37   |
| 8.1 Test Result.....                         | 37   |
| 8.2 Test Graphs.....                         | 38   |
| 9 Band-edge for RF Conducted Emissions.....  | 47   |
| 9.1 Test Result.....                         | 47   |
| 9.2 Test Graphs.....                         | 48   |
| 10 Restrict-band band-edge measurements..... | 60   |
| 10.1 Test Result.....                        | 60   |
| 10.2 Test Graphs.....                        | 62   |

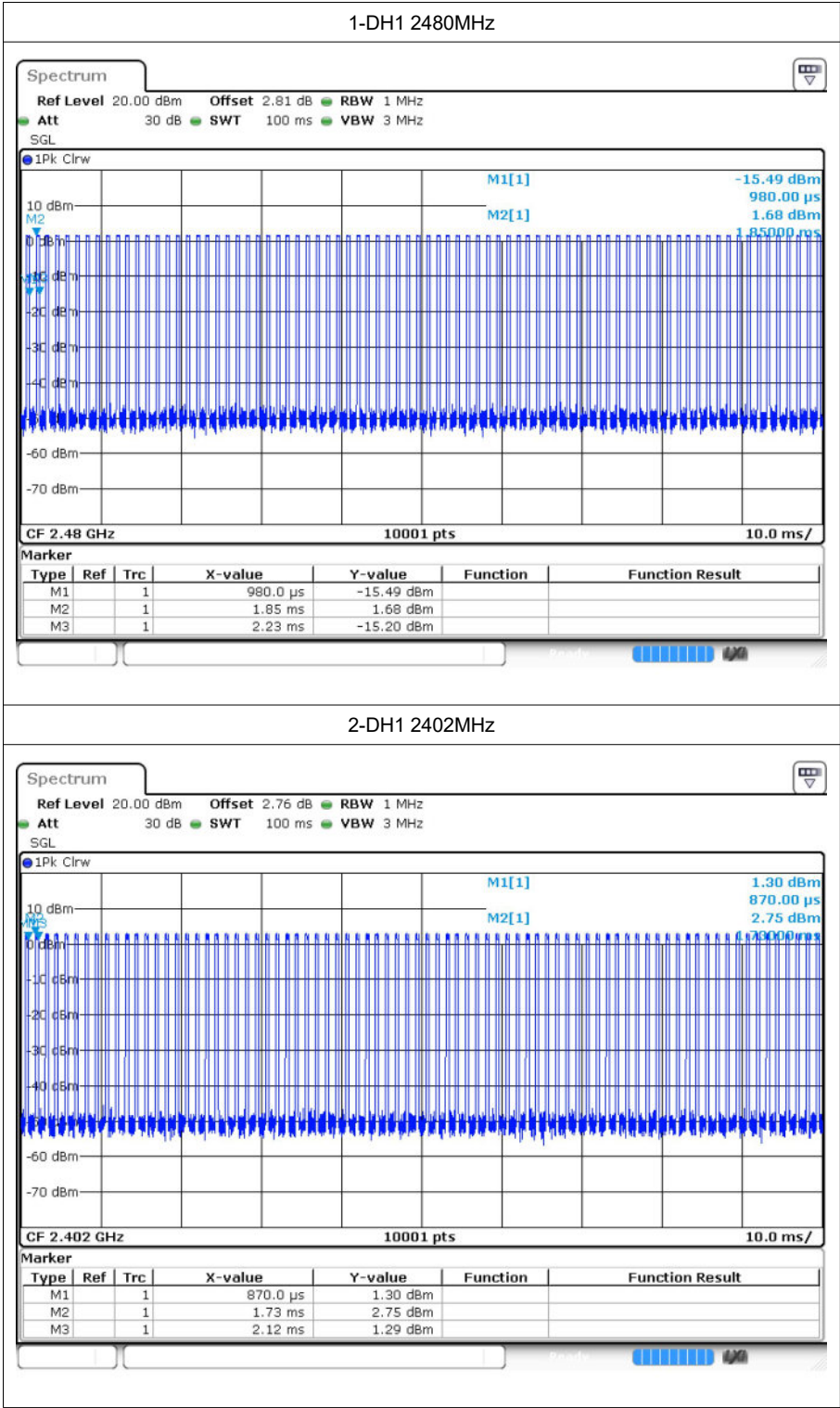
# 1 Duty Cycle

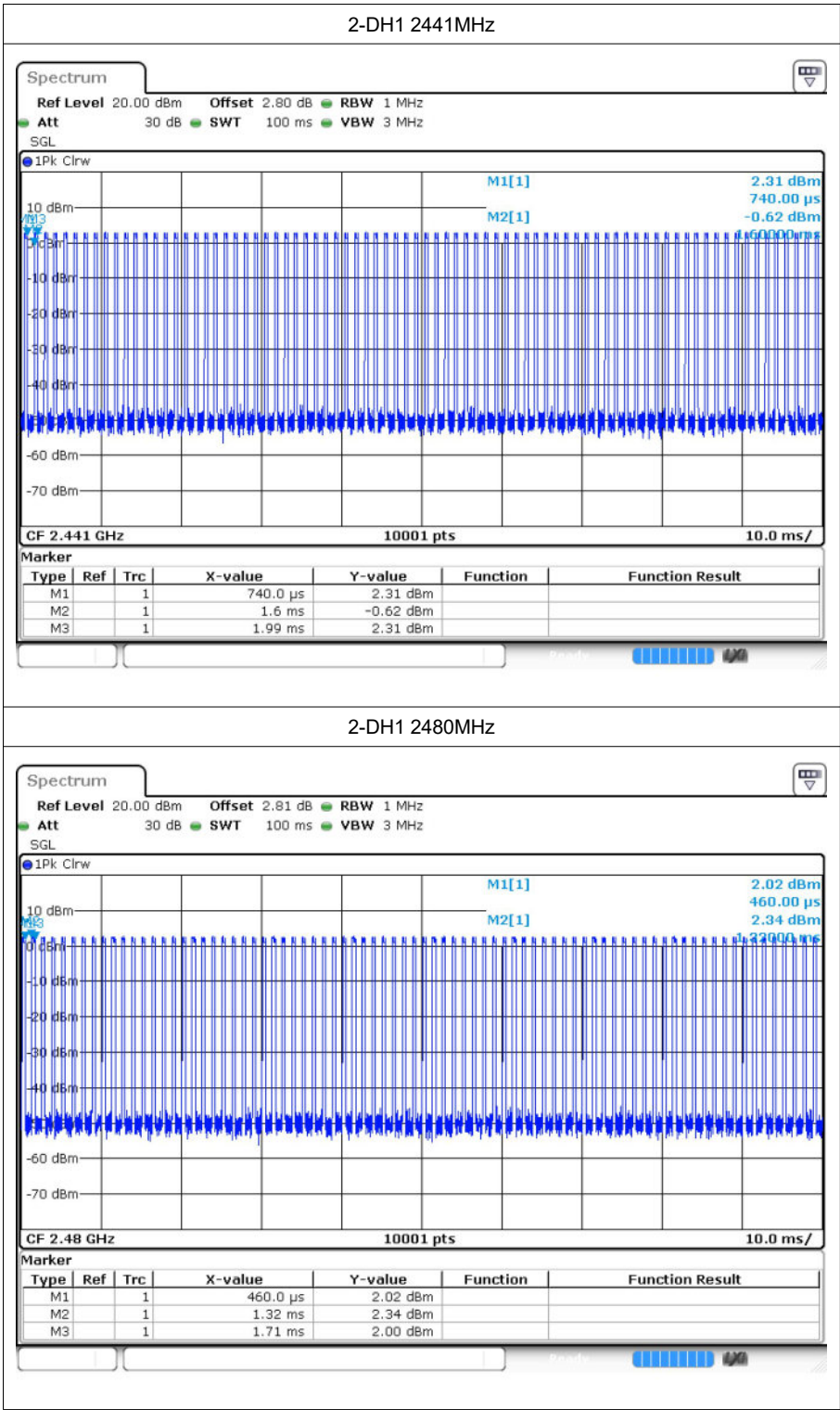
## 1.1 Test Result

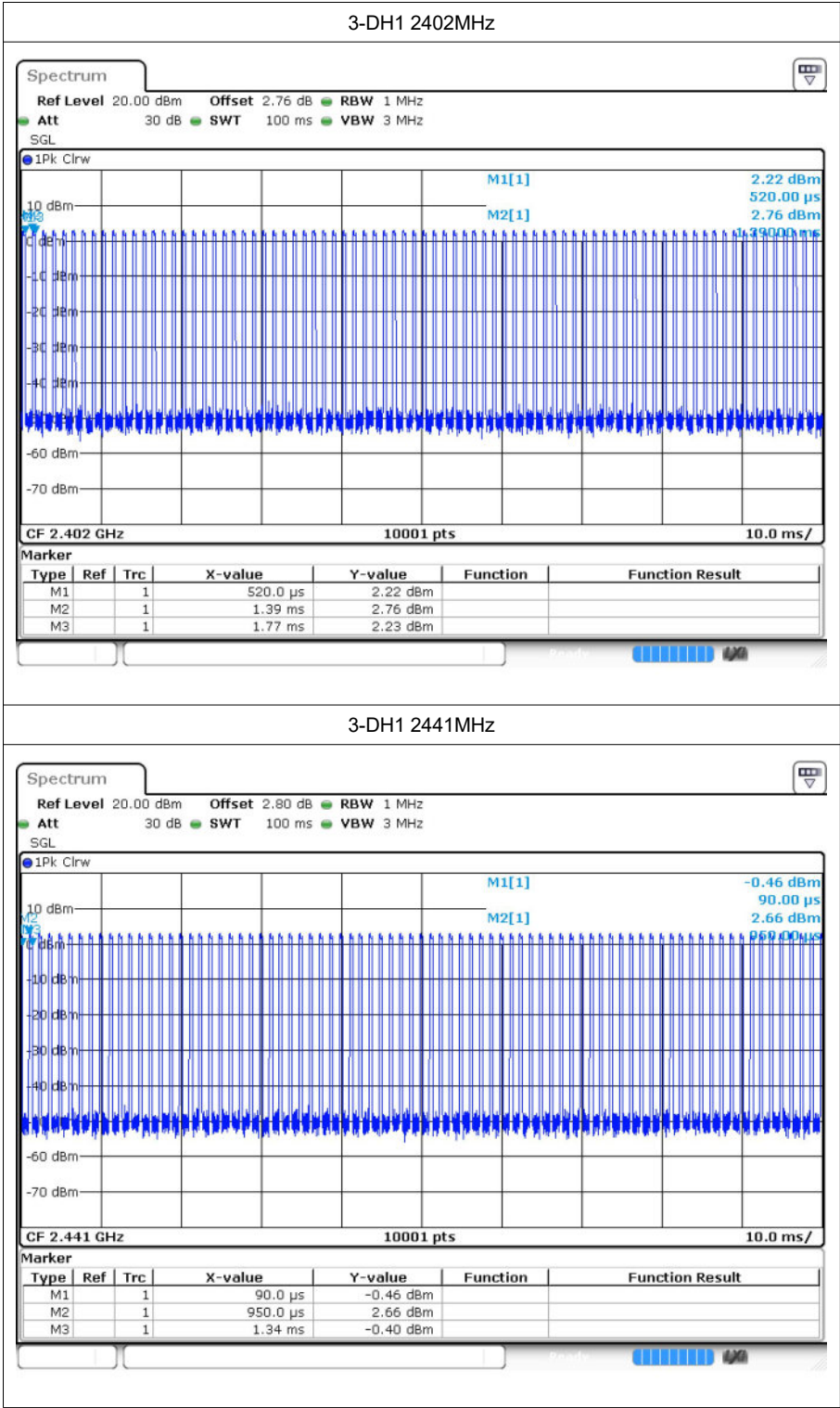
| Mode  | Frequency (MHz) | Duty Cycle (%) | 1/T (kHz) |
|-------|-----------------|----------------|-----------|
| 1-DH1 | 2402            | 31.2           | 2.63      |
| 1-DH1 | 2441            | 31.2           | 2.63      |
| 1-DH1 | 2480            | 31.2           | 2.63      |
| 2-DH1 | 2402            | 32             | 2.56      |
| 2-DH1 | 2441            | 32             | 2.56      |
| 2-DH1 | 2480            | 32             | 2.56      |
| 3-DH1 | 2402            | 31.7           | 2.63      |
| 3-DH1 | 2441            | 32.01          | 2.56      |
| 3-DH1 | 2480            | 32             | 2.56      |

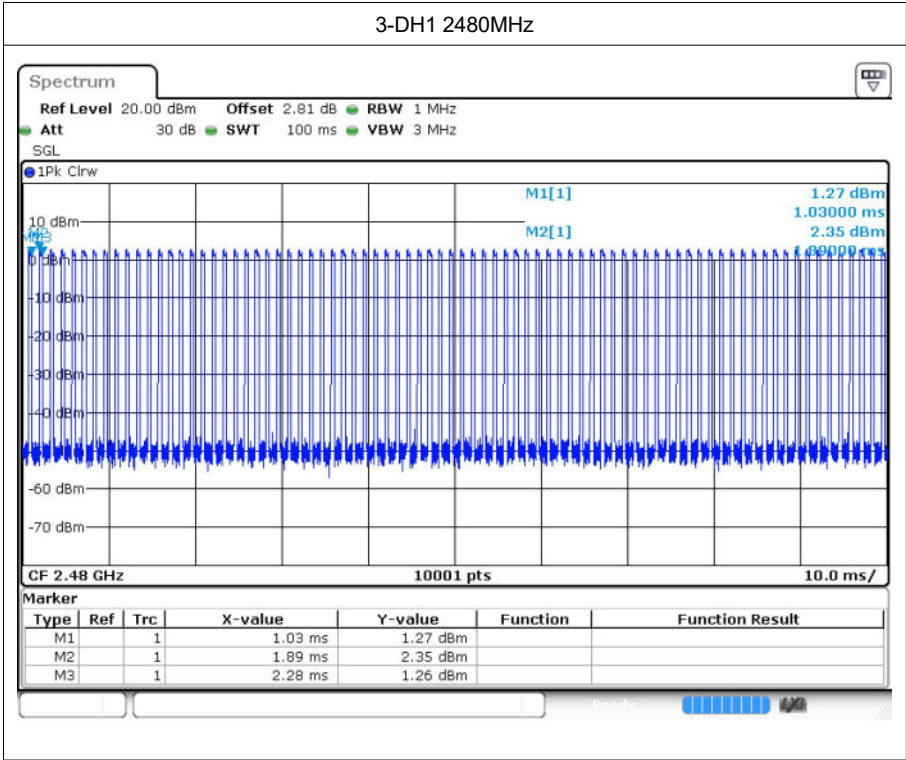
## 1.2 Test Graphs









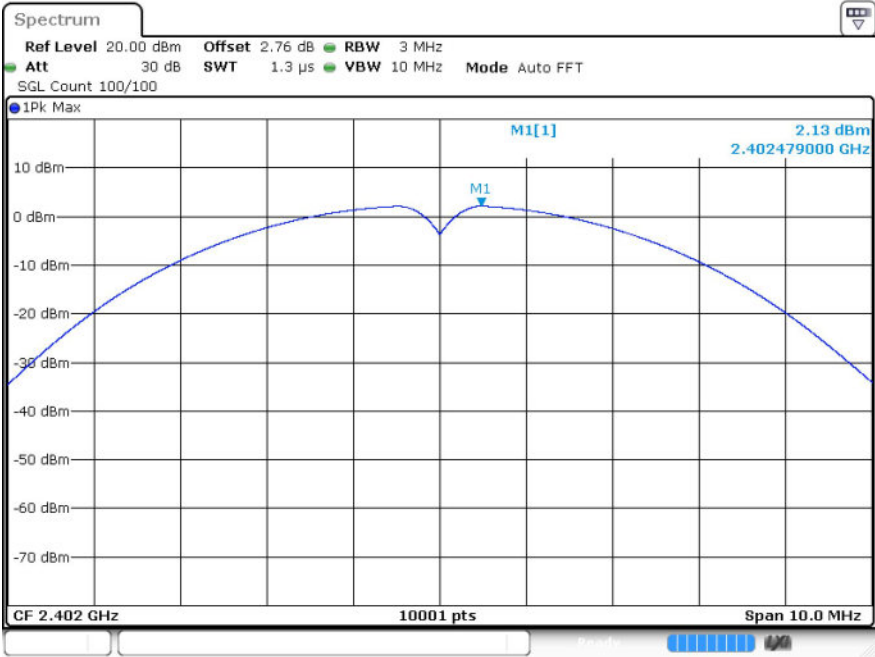
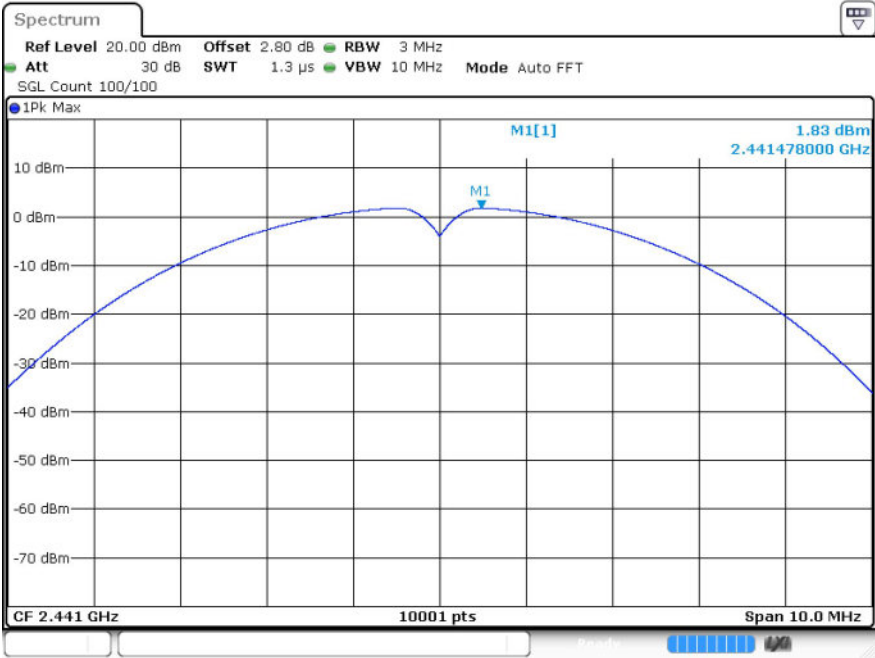


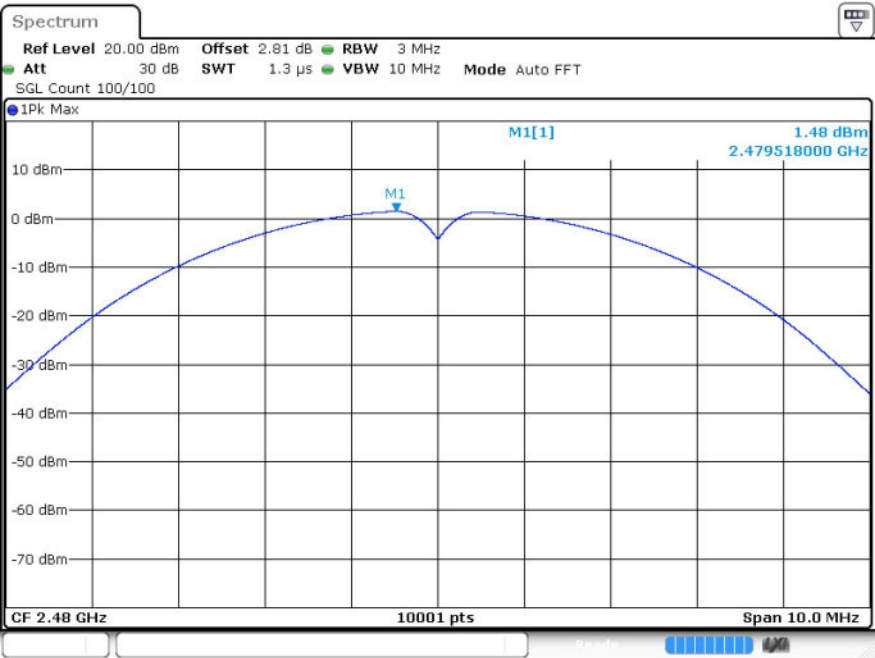
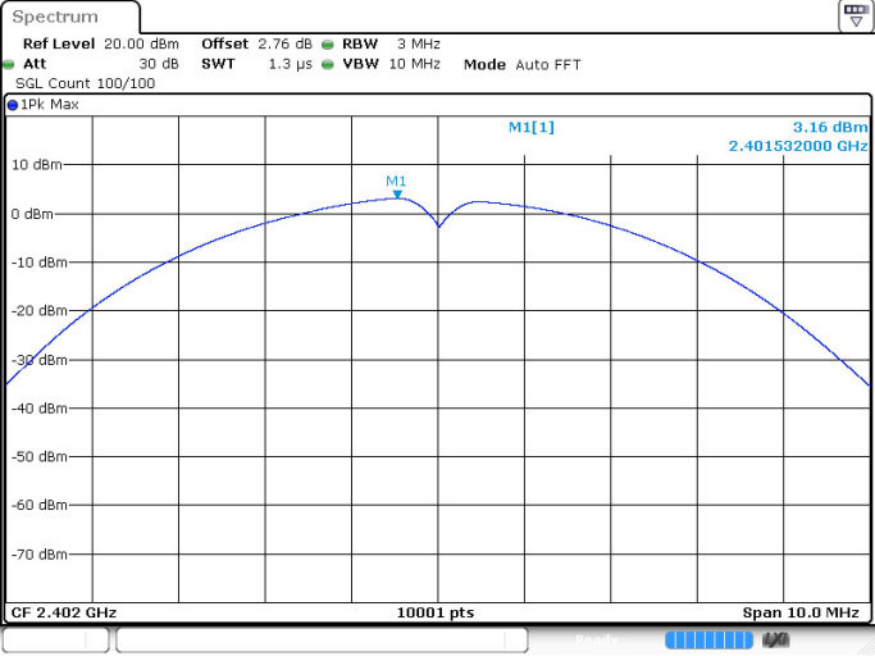
## 2 Maximum Conducted Peak Output Power

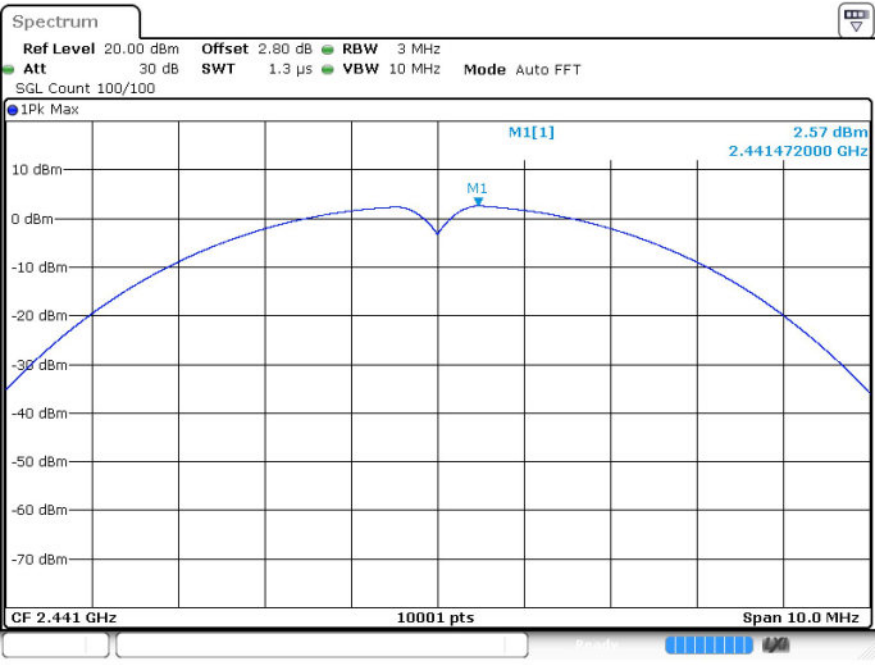
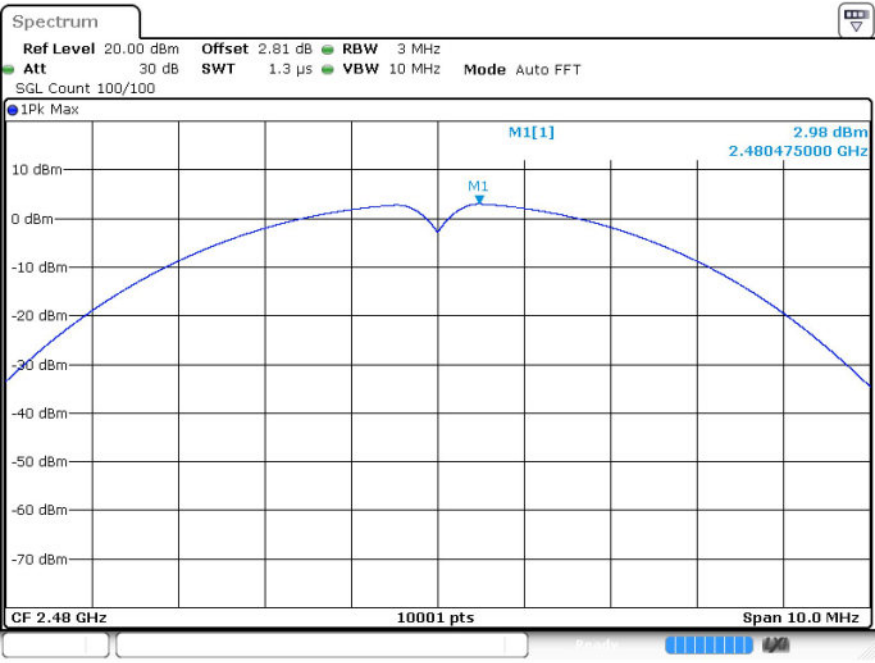
### 2.1 Test Result

| Mode          | Channel. | Maximum Peak Output Power [dBm] | Limit [dBm] | Verdict |
|---------------|----------|---------------------------------|-------------|---------|
| GFSK          | LCH      | 2.13                            | 21          | Pass    |
|               | MCH      | 1.83                            | 21          | Pass    |
|               | HCH      | 1.48                            | 21          | Pass    |
| $\pi/4$ DQPSK | LCH      | 3.16                            | 21          | Pass    |
|               | MCH      | 2.57                            | 21          | Pass    |
|               | HCH      | 2.98                            | 21          | Pass    |
| 8DPSK         | LCH      | 2.65                            | 21          | Pass    |
|               | MCH      | 3.23                            | 21          | Pass    |
|               | HCH      | 2.22                            | 21          | Pass    |

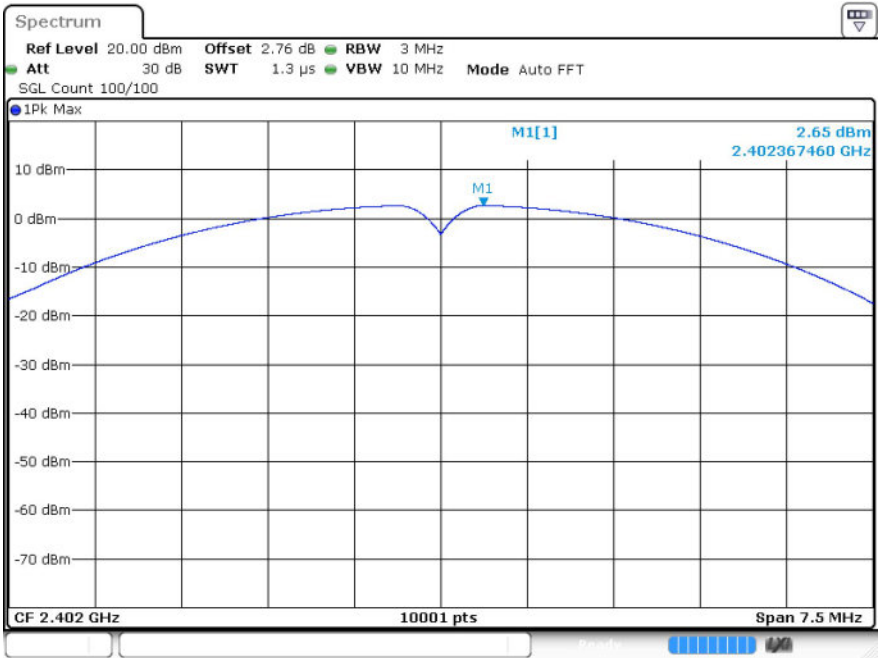
## 2.2 Test Graphs

| Test Graphs |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GFSK/LCH    |  <p>The graph displays the spectrum for GFSK/LCH. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in GHz, with a center frequency (CF) of 2.402 GHz and a span of 10.0 MHz. A peak is labeled M1[1] at 2.402479000 GHz with a power of 2.13 dBm. The graph also shows a reference level of 20.00 dBm, an offset of 2.76 dB, and a resolution bandwidth (RBW) of 3 MHz.</p>  |
| GFSK/MCH    |  <p>The graph displays the spectrum for GFSK/MCH. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in GHz, with a center frequency (CF) of 2.441 GHz and a span of 10.0 MHz. A peak is labeled M1[1] at 2.441478000 GHz with a power of 1.83 dBm. The graph also shows a reference level of 20.00 dBm, an offset of 2.80 dB, and a resolution bandwidth (RBW) of 3 MHz.</p> |

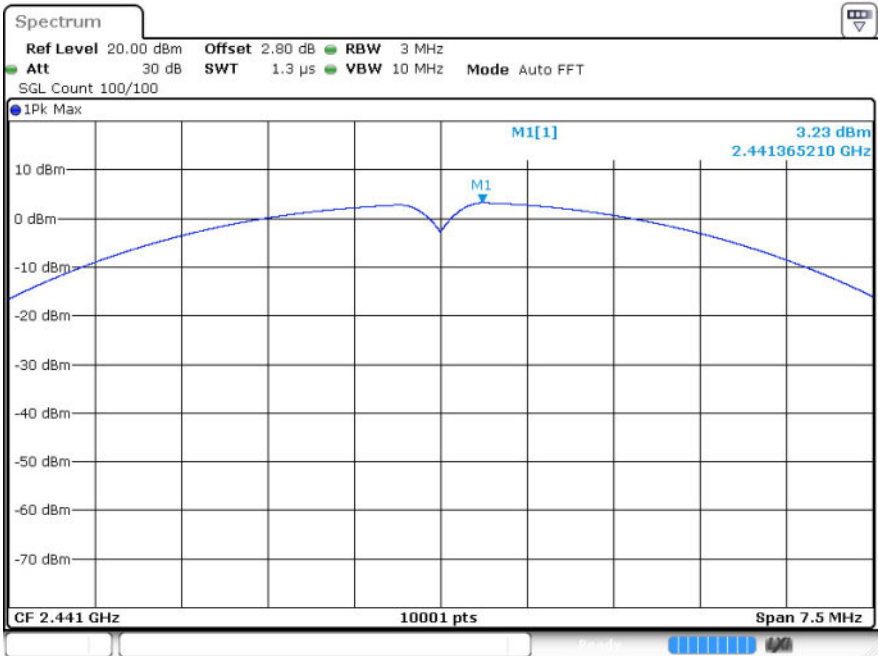
|                   |                                                                                     |
|-------------------|-------------------------------------------------------------------------------------|
| GFSK/HCH          |   |
| $\pi/4$ DQPSK/LCH |  |

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><math>\pi/4</math>DQPSK/MCH</p> |  <p>The spectrum plot for <math>\pi/4</math>DQPSK/MCH shows a signal centered at 2.441 GHz. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in GHz, with a span of 10.0 MHz. The plot shows a main signal peak at 2.441472000 GHz with a power level of 2.57 dBm. The plot also shows a smaller peak at 2.441472000 GHz with a power level of 2.57 dBm. The plot is labeled 'M1[1]' and 'M1'. The plot also shows a smaller peak at 2.441472000 GHz with a power level of 2.57 dBm. The plot is labeled 'M1[1]' and 'M1'.</p> |
| <p><math>\pi/4</math>DQPSK/HCH</p> |  <p>The spectrum plot for <math>\pi/4</math>DQPSK/HCH shows a signal centered at 2.48 GHz. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in GHz, with a span of 10.0 MHz. The plot shows a main signal peak at 2.480475000 GHz with a power level of 2.98 dBm. The plot also shows a smaller peak at 2.480475000 GHz with a power level of 2.98 dBm. The plot is labeled 'M1[1]' and 'M1'. The plot also shows a smaller peak at 2.480475000 GHz with a power level of 2.98 dBm. The plot is labeled 'M1[1]' and 'M1'.</p> |

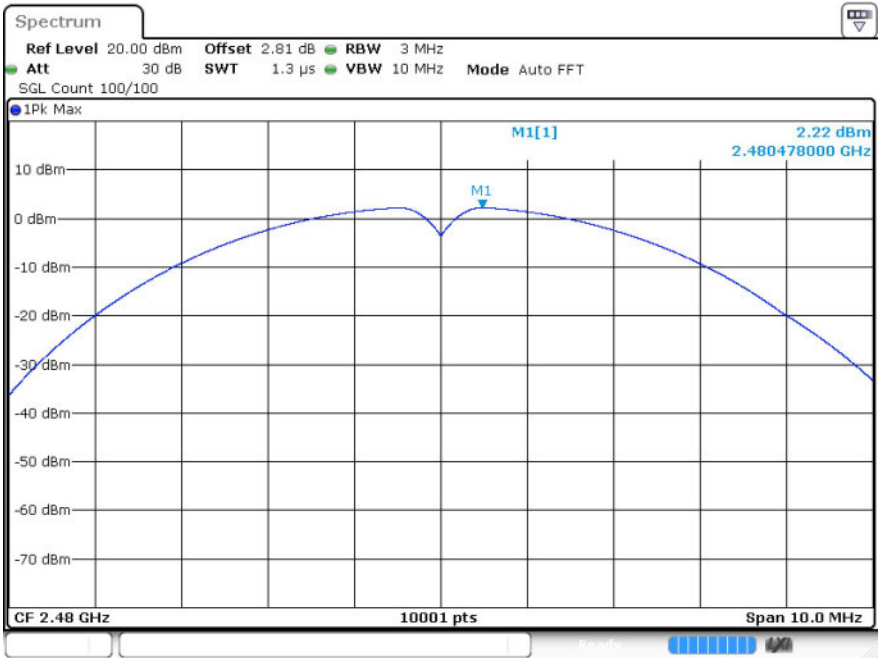
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

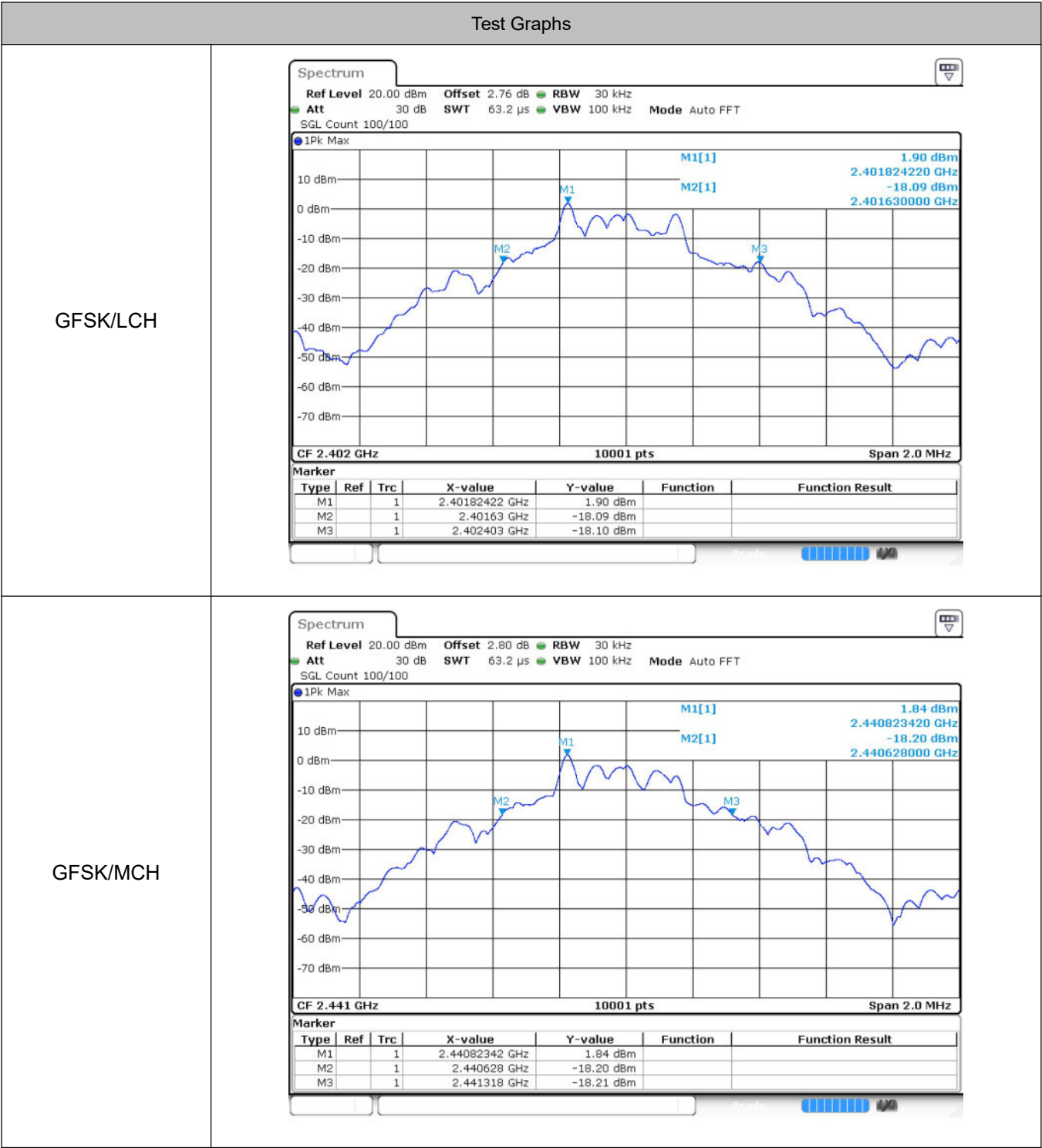


### 3 20dB Bandwidth

#### 3.1 Test Result

| Mode          | Channel. | 20dB Bandwidth [MHz] | Limit [MHz]   | Verdict |
|---------------|----------|----------------------|---------------|---------|
| GFSK          | LCH      | 0.773                | Not Specified | Pass    |
|               | MCH      | 0.689                | Not Specified | Pass    |
|               | HCH      | 0.734                | Not Specified | Pass    |
| $\pi$ /4DQPSK | LCH      | 1.108                | Not Specified | Pass    |
|               | MCH      | 1.084                | Not Specified | Pass    |
|               | HCH      | 1.108                | Not Specified | Pass    |
| 8DPSK         | LCH      | 1.154                | Not Specified | Pass    |
|               | MCH      | 1.152                | Not Specified | Pass    |
|               | HCH      | 1.143                | Not Specified | Pass    |

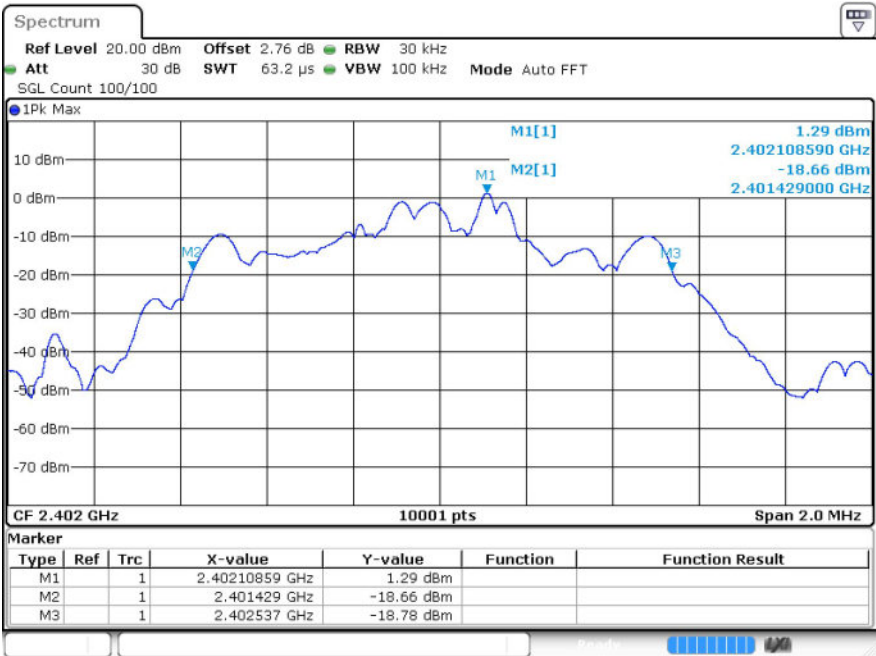
### 3.2 Test Graphs



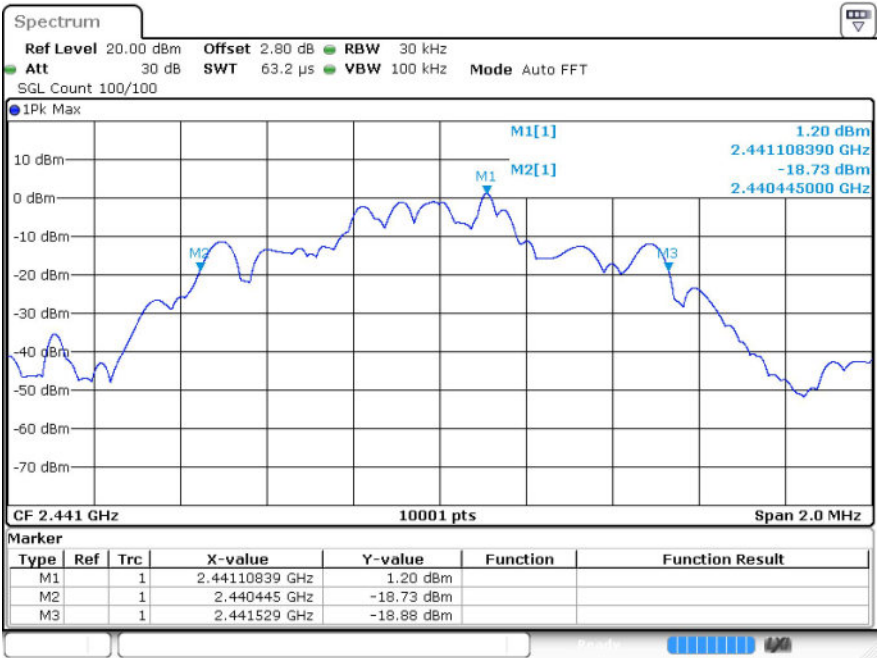
GFSK/HCH



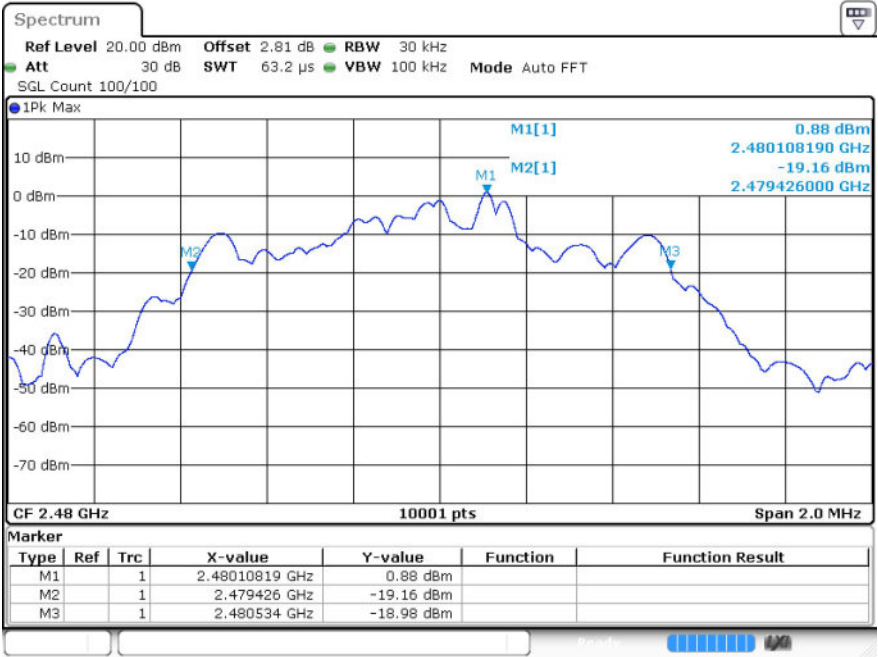
$\pi$ /4DQPSK/LCH



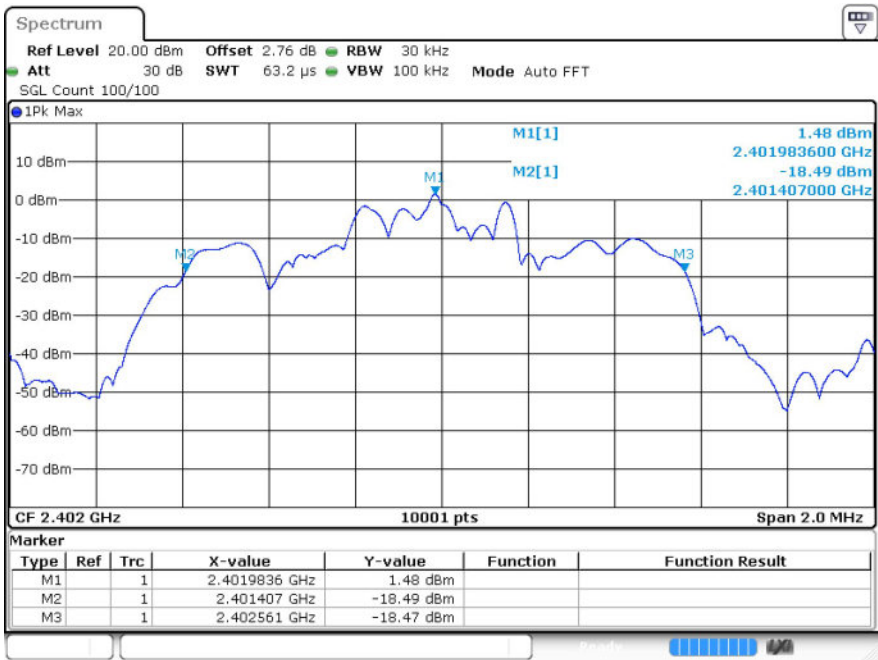
$\pi/4$ DQPSK/MCH



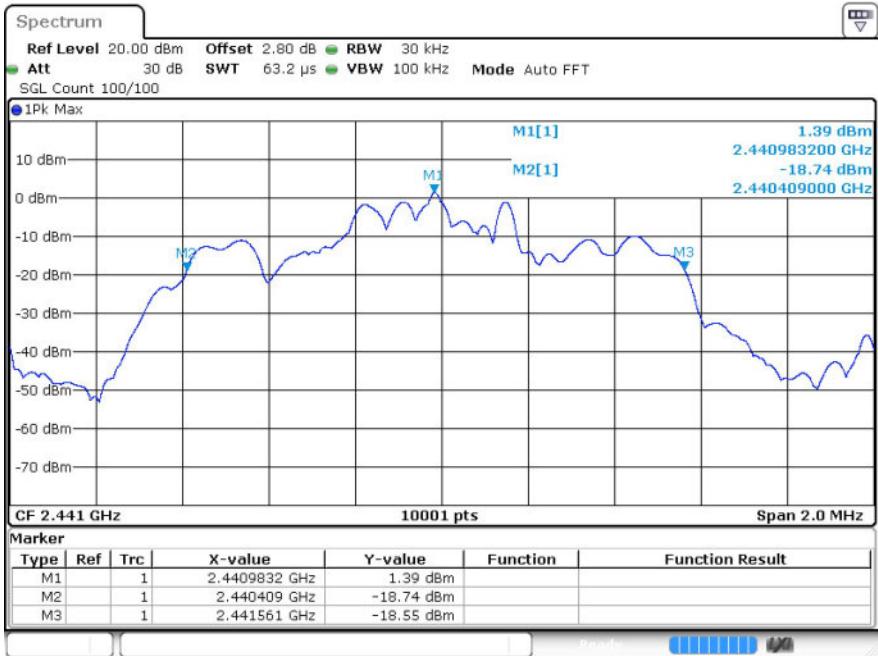
$\pi/4$ DQPSK/HCH



8DPSK/LCH

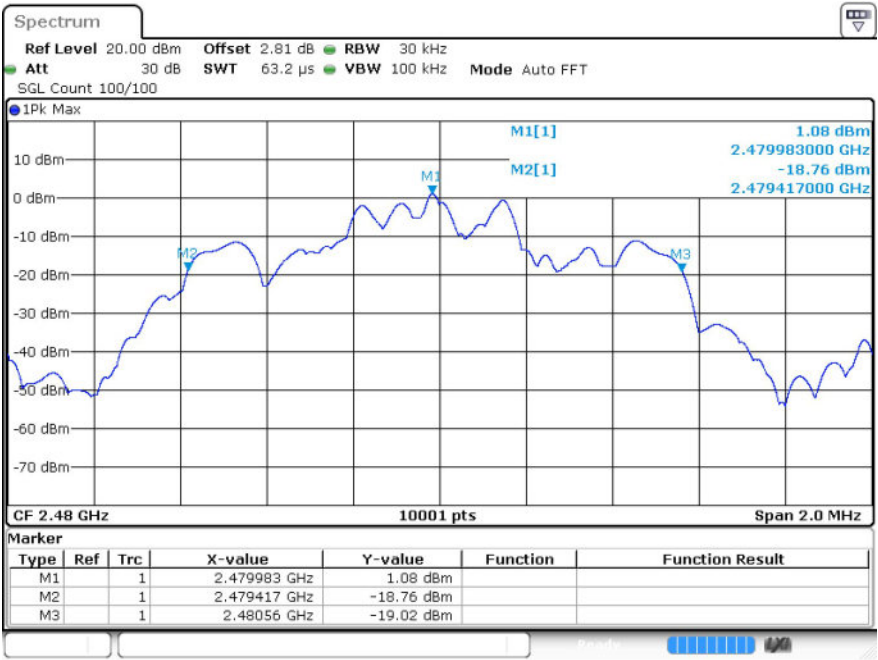


8DPSK/MCH





8DPSK/HCH

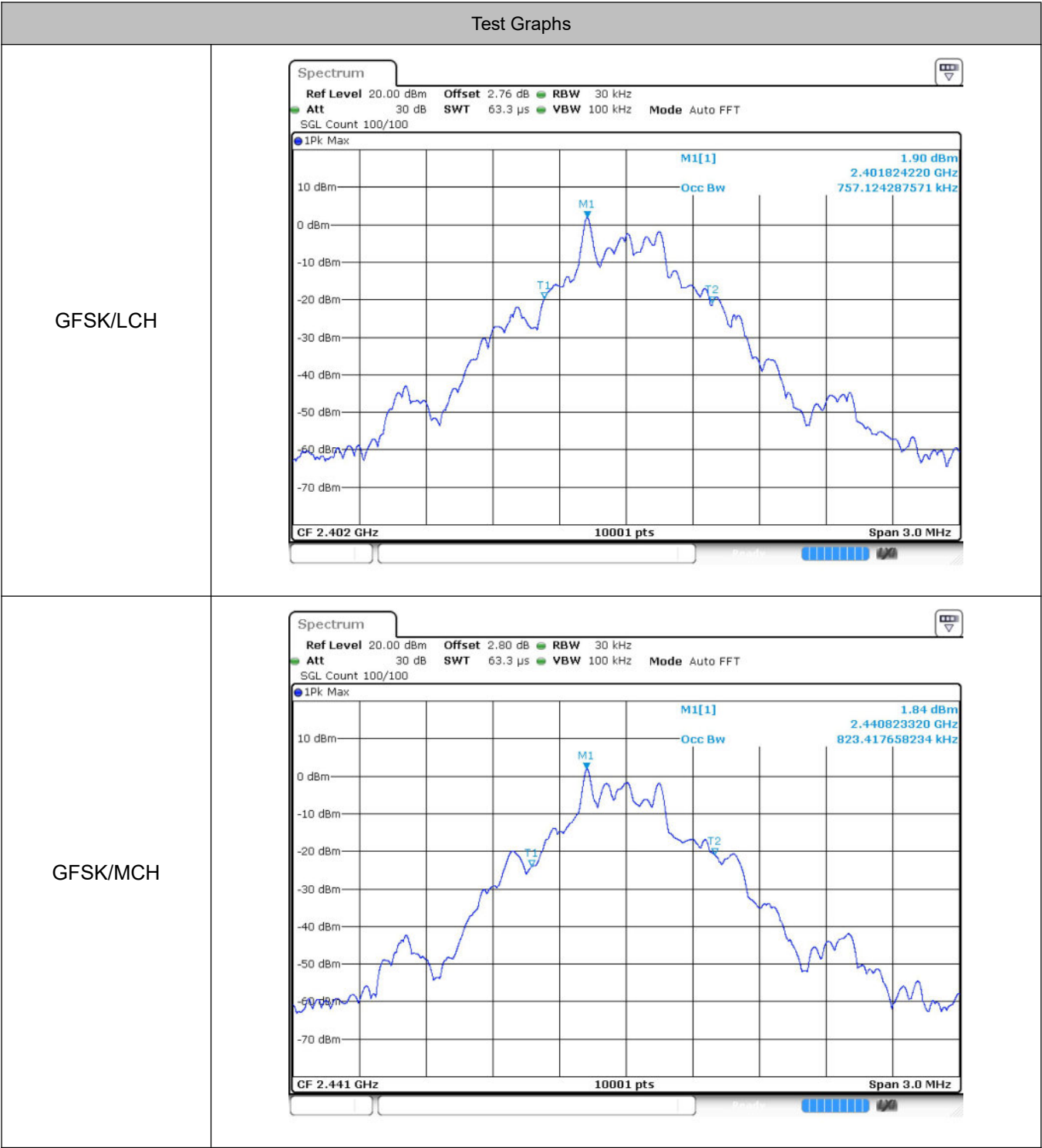


## 4 Occupied Bandwidth

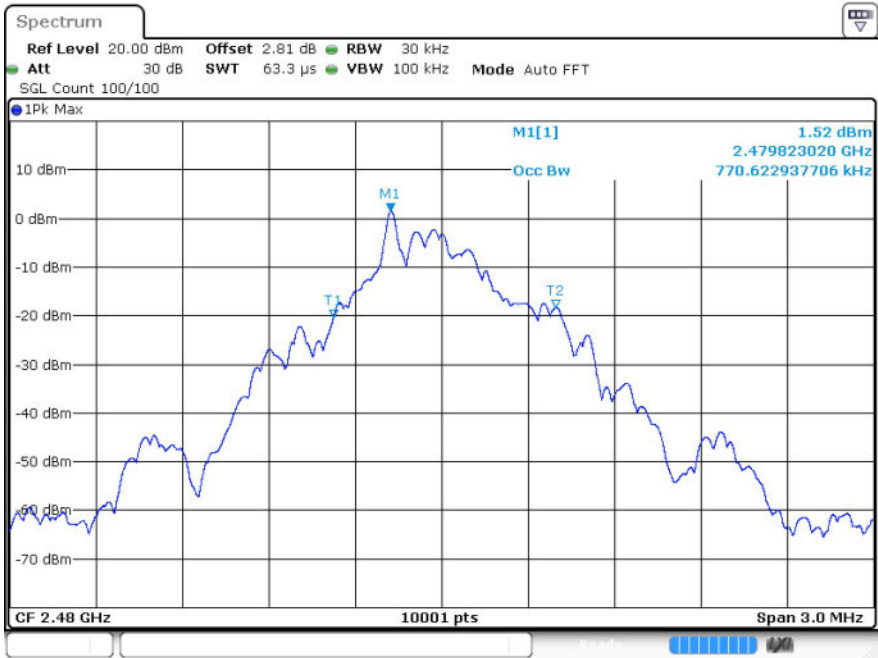
### 4.1 Test Result

| Mode          | Channel. | 99% Bandwidth [MHz] | Limit [MHz]   | Verdict |
|---------------|----------|---------------------|---------------|---------|
| GFSK          | LCH      | 0.757               | Not Specified | PASS    |
|               | MCH      | 0.823               | Not Specified | PASS    |
|               | HCH      | 0.771               | Not Specified | PASS    |
| $\pi/4$ DQPSK | LCH      | 1.034               | Not Specified | PASS    |
|               | MCH      | 1.059               | Not Specified | PASS    |
|               | HCH      | 1.06                | Not Specified | PASS    |
| 8DPSK         | LCH      | 1.095               | Not Specified | PASS    |
|               | MCH      | 1.085               | Not Specified | PASS    |
|               | HCH      | 1.026               | Not Specified | PASS    |

4.2 Test Graphs



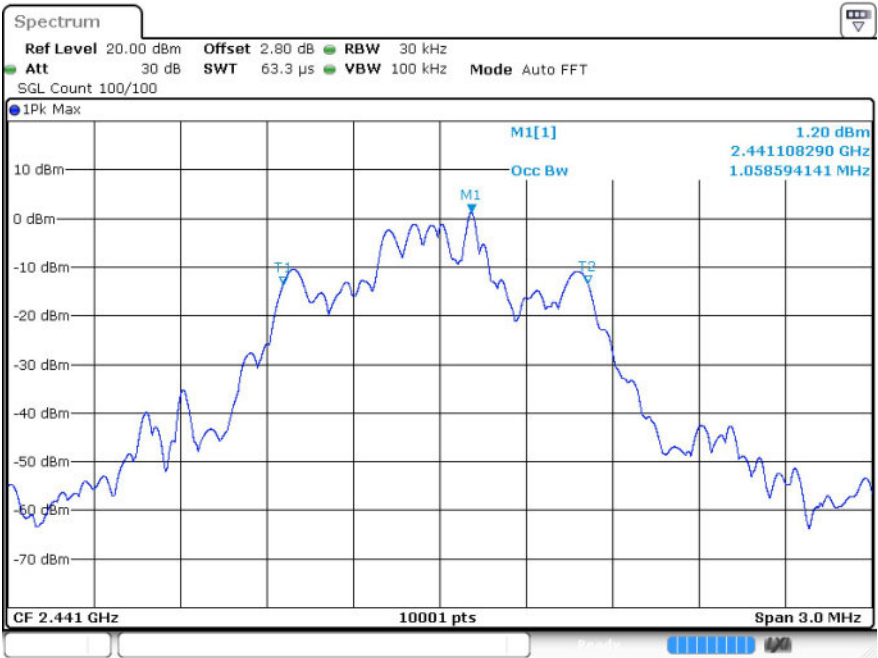
GFSK/HCH



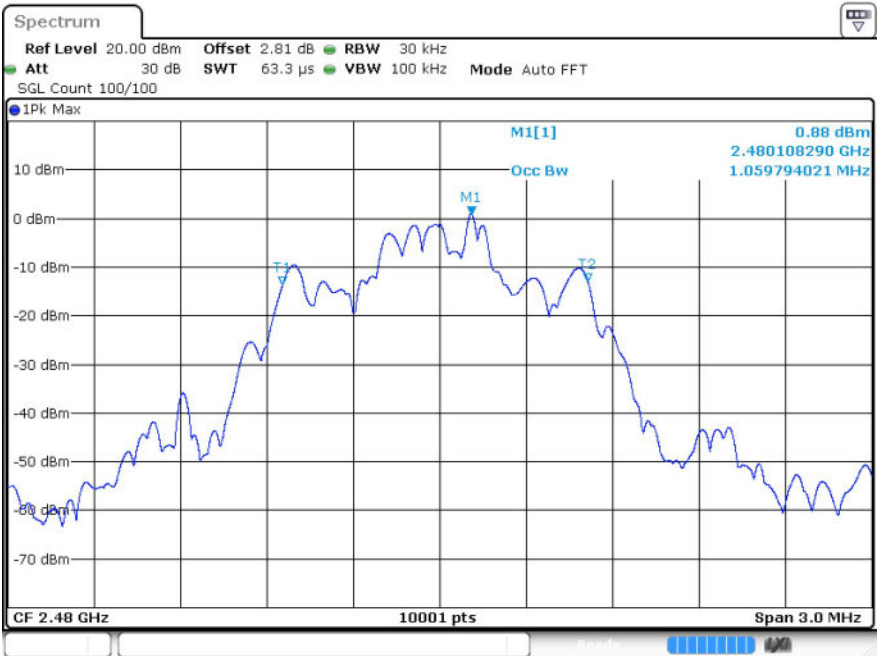
$\pi$ /4DQPSK/LCH



$\pi/4$ DQPSK/MCH

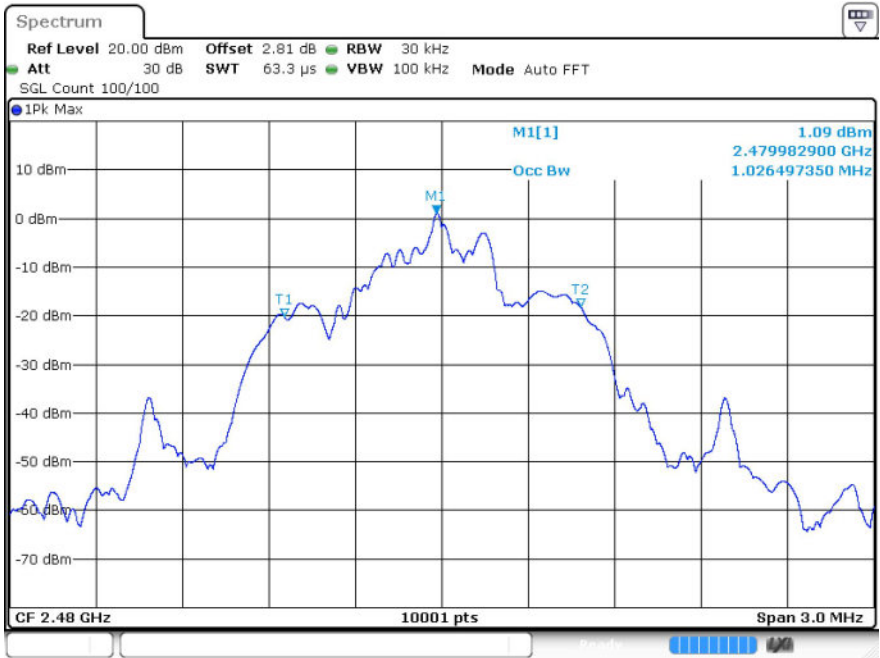


$\pi/4$ DQPSK/HCH



|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8DPSK/LCH | <div><div>Spectrum</div><div><div>Ref Level 20.00 dBm</div><div>Att 30 dB</div><div>Offset 2.76 dB</div><div>SWT 63.3 <math>\mu</math>s</div><div>RBW 30 kHz</div><div>VBW 100 kHz</div><div>Mode Auto FFT</div><div>SGL Count 100/100</div></div><div><div>1Pk Max</div><div><div><div>10 dBm</div><div>0 dBm</div><div>-10 dBm</div><div>-20 dBm</div><div>-30 dBm</div><div>-40 dBm</div><div>-50 dBm</div><div>-60 dBm</div><div>-70 dBm</div></div><div><div>M1[1]</div><div>Occ Bw</div><div>T1</div><div>T2</div></div><div><div>1.49 dBm</div><div>2.401983500 GHz</div><div>1.094890511 MHz</div></div></div><div><div>CF 2.402 GHz</div><div>10001 pts</div><div>Span 3.0 MHz</div></div></div></div> |
| 8DPSK/MCH | <div><div>Spectrum</div><div><div>Ref Level 20.00 dBm</div><div>Att 30 dB</div><div>Offset 2.80 dB</div><div>SWT 63.3 <math>\mu</math>s</div><div>RBW 30 kHz</div><div>VBW 100 kHz</div><div>Mode Auto FFT</div><div>SGL Count 100/100</div></div><div><div>1Pk Max</div><div><div><div>10 dBm</div><div>0 dBm</div><div>-10 dBm</div><div>-20 dBm</div><div>-30 dBm</div><div>-40 dBm</div><div>-50 dBm</div><div>-60 dBm</div><div>-70 dBm</div></div><div><div>M1[1]</div><div>Occ Bw</div><div>T1</div><div>T2</div></div><div><div>1.39 dBm</div><div>2.440983200 GHz</div><div>1.084991501 MHz</div></div></div><div><div>CF 2.441 GHz</div><div>10001 pts</div><div>Span 3.0 MHz</div></div></div></div> |

8DPSK/HCH



## 5 Carrier Frequency Separation

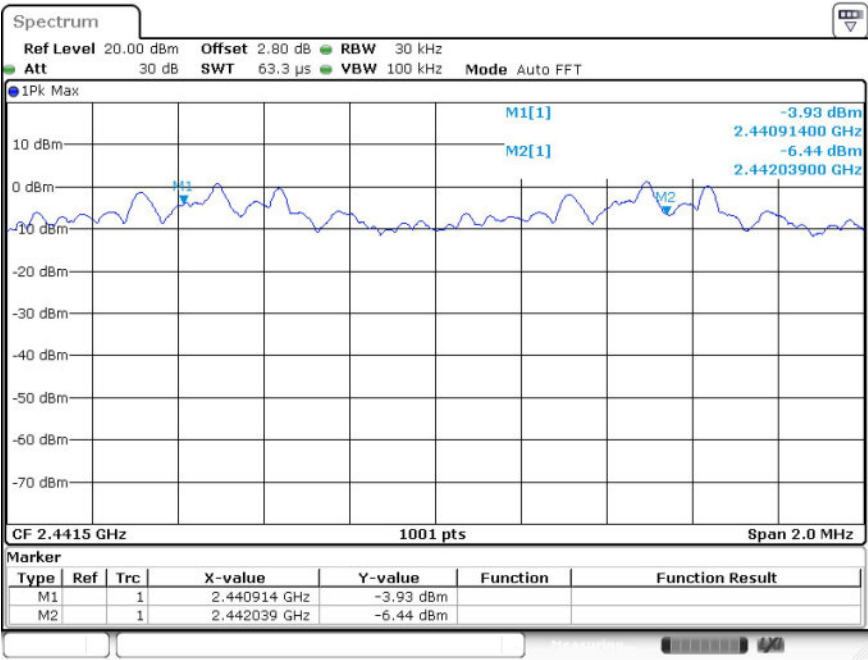
### 5.1 Test Result

| Mode          | Channel. | Carrier Frequency Separation [MHz] | Limit [MHz] | Verdict |
|---------------|----------|------------------------------------|-------------|---------|
| GFSK          | MCH      | 0.996                              | 0.459       | Pass    |
| $\pi/4$ DQPSK | MCH      | 0.991                              | 0.723       | Pass    |
| 8DPSK         | MCH      | 1.125                              | 0.768       | Pass    |

## 5.2 Test Graphs



8DPSK/MCH





## 6 Hopping Channel Number

### 6.1 Test Result

| Mode          | Channel. | Number of Hopping Channel [N] | Limit [N] | Verdict |
|---------------|----------|-------------------------------|-----------|---------|
| GFSK          | Hop      | 79                            | >=15      | PASS    |
| $\pi/4$ DQPSK | Hop      | 79                            | >=15      | PASS    |
| 8DPSK         | Hop      | 79                            | >=15      | PASS    |

6.2 Test Graphs

## Test Graphs

GFSK/Hop

Spectrum

Ref Level 20.00 dBm Offset 2.80 dB RBW 100 kHz  
Att 30 dB SWT 94.8  $\mu$ s VBW 300 kHz Mode Auto FFT

1Pk Max

Start 2.4 GHz 1001 pts Stop 2.4835 GHz

Marker

| Type | Ref | Trc | X-value      | Y-value  | Function | Function Result |
|------|-----|-----|--------------|----------|----------|-----------------|
| M1   |     | 1   | 2.401837 GHz | 0.78 dBm |          |                 |
| M2   |     | 1   | 2.479993 GHz | 4.84 dBm |          |                 |

$\pi/4$ DQPSK/Hop

Spectrum

Ref Level 20.00 dBm Offset 2.80 dB RBW 100 kHz  
Att 30 dB SWT 94.8  $\mu$ s VBW 300 kHz Mode Auto FFT

1Pk Max

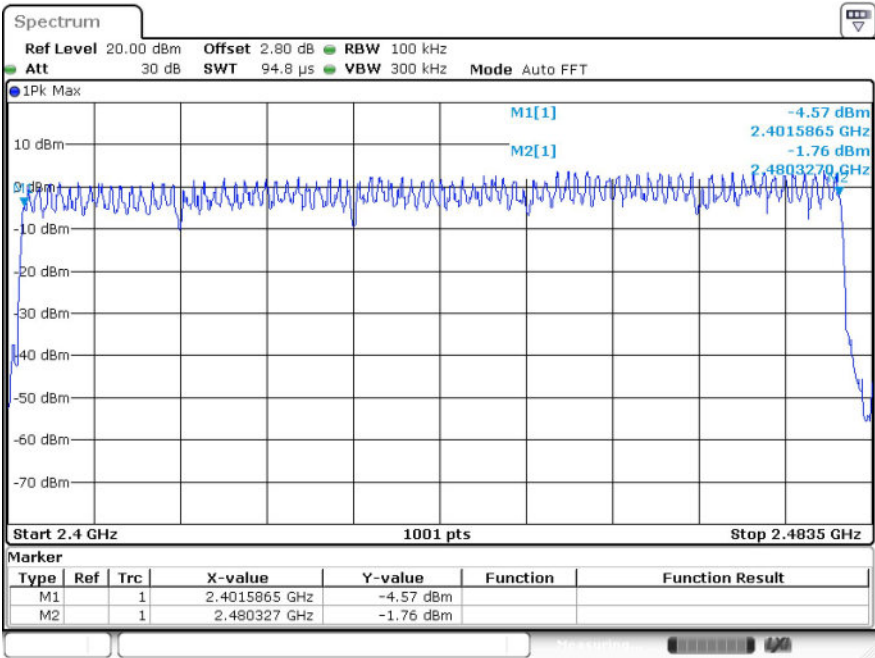
Start 2.4 GHz 1001 pts Stop 2.4835 GHz

Marker

| Type | Ref | Trc | X-value       | Y-value   | Function | Function Result |
|------|-----|-----|---------------|-----------|----------|-----------------|
| M1   |     | 1   | 2.4014195 GHz | -5.18 dBm |          |                 |
| M2   |     | 1   | 2.480494 GHz  | -1.42 dBm |          |                 |



8DPSK/Hop



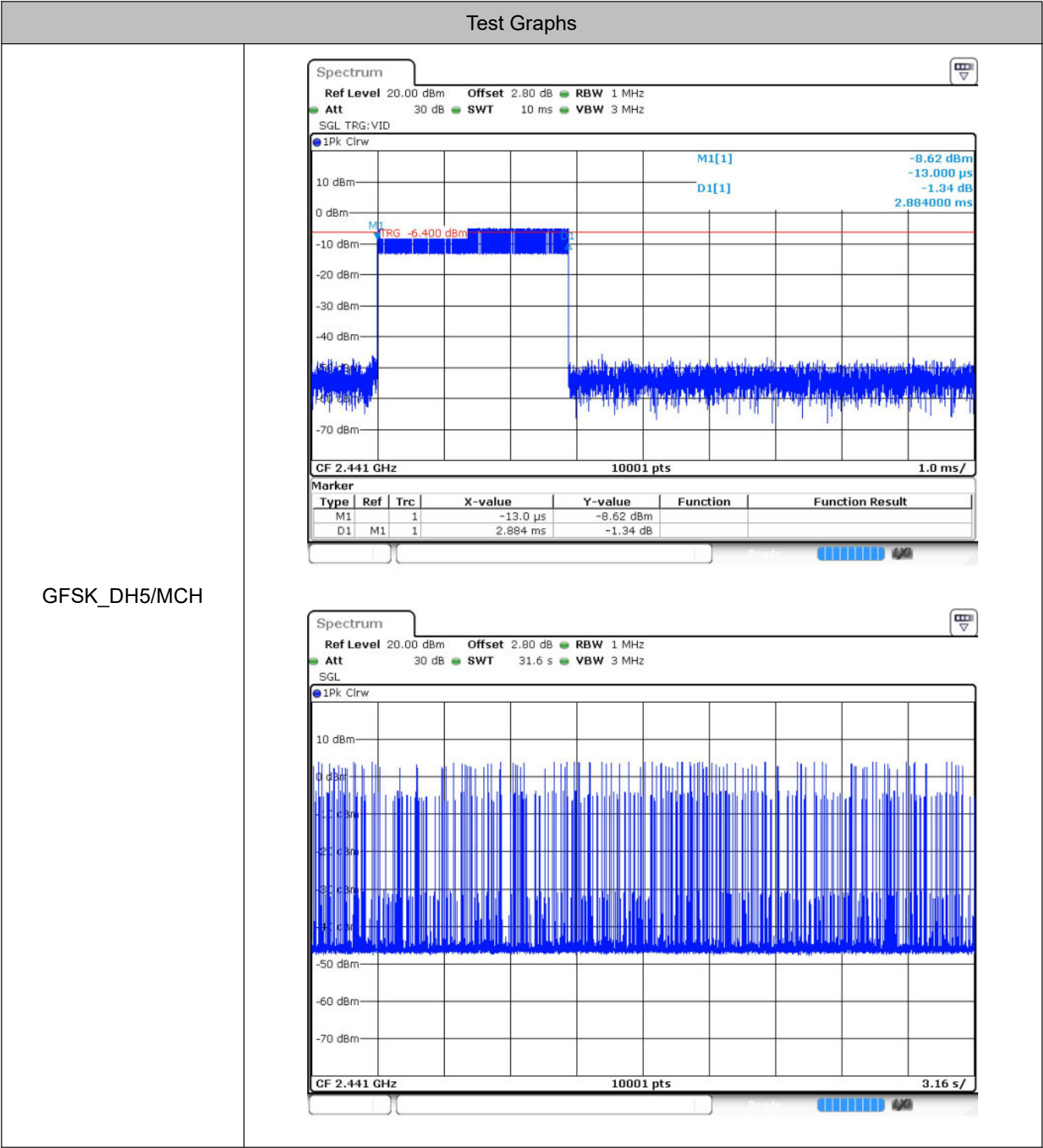


## 7 Dwell Time

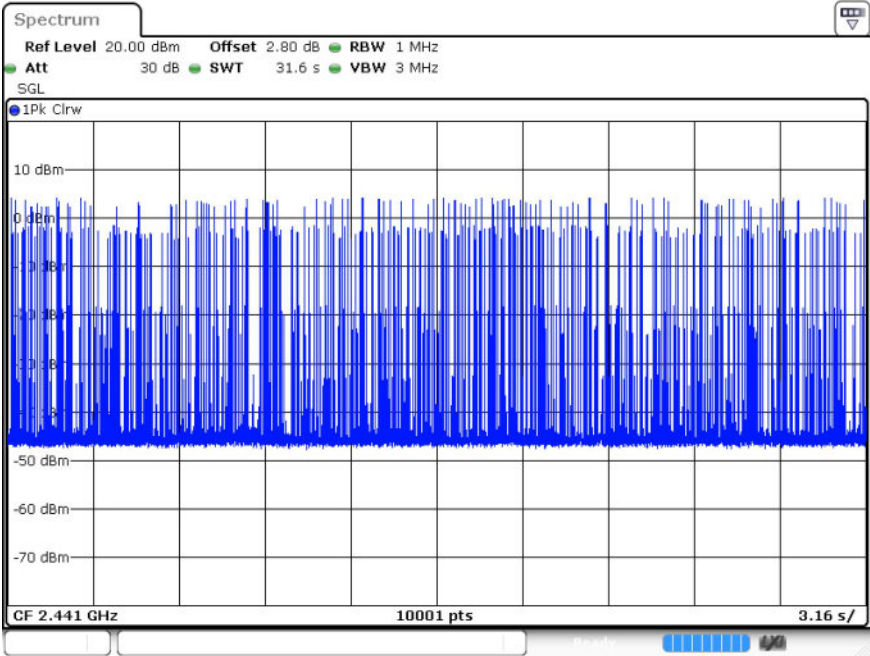
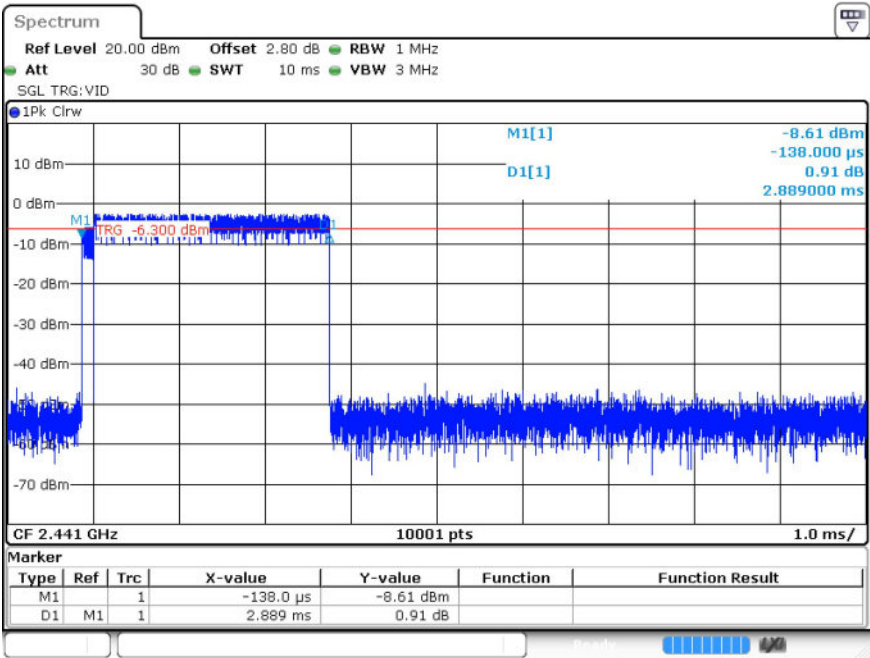
### 7.1 Test Result

| Mode          | Packet | Channel | Burst Width<br>[ms/hop/ch] | Total<br>Hops[hop*ch] | Dwell Time[ms] | Limit [s] | Verdict |
|---------------|--------|---------|----------------------------|-----------------------|----------------|-----------|---------|
| GFSK          | DH5    | MCH     | 2.884                      | 119                   | 343.196        | 0.4       | Pass    |
| $\pi/4$ DQPSK | 2DH5   | MCH     | 2.889                      | 118                   | 340.902        | 0.4       | Pass    |
| 8DPSK         | 3DH5   | MCH     | 2.891                      | 100                   | 289.1          | 0.4       | Pass    |

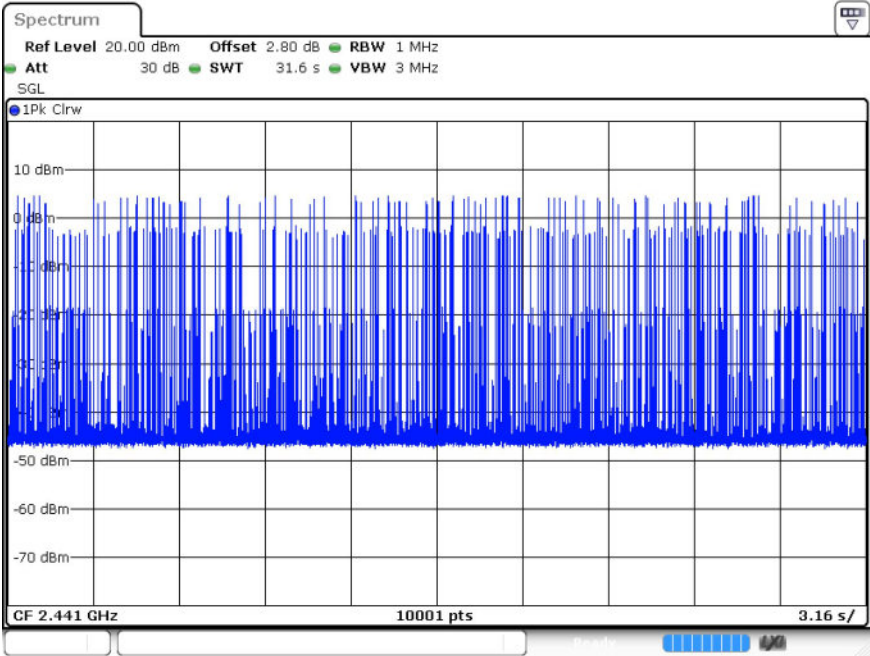
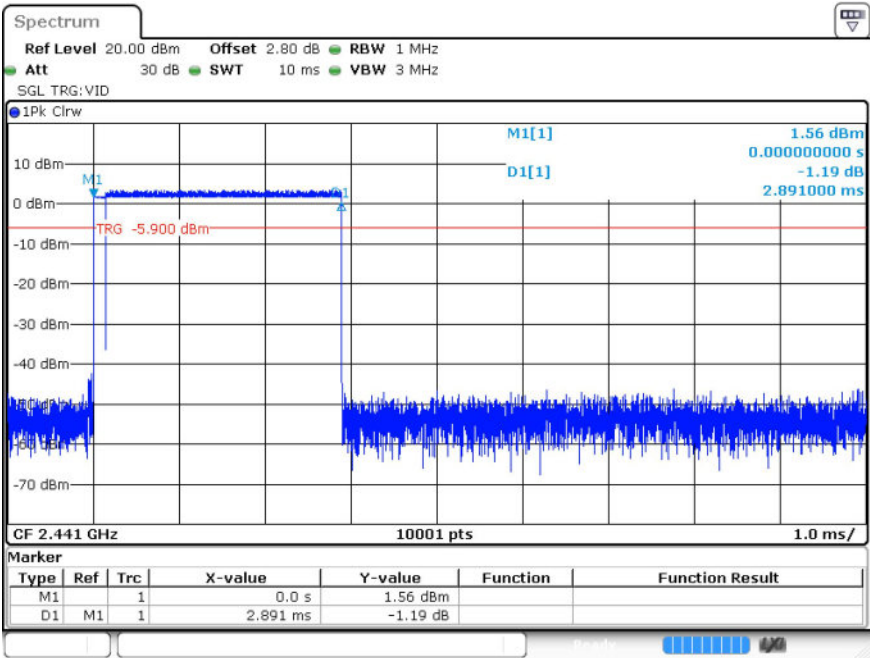
## 7.2 Test Graphs



$\pi/4$ DQPSK  
\_2DH5/MCH



8DPSK\_3DH5/MCH



## 8 RF Conducted Spurious Emissions

### 8.1 Test Result

| Mode          | Channel | Max. Level [dBc] | Limit [dBc] | Verdict |
|---------------|---------|------------------|-------------|---------|
| GFSK          | LCH     | -42.71           | -20         | Pass    |
|               | MCH     | -41.37           | -20         | Pass    |
|               | HCH     | -42.58           | -20         | Pass    |
| $\pi$ /4DQPSK | LCH     | -43.1            | -20         | Pass    |
|               | MCH     | -43.74           | -20         | Pass    |
|               | HCH     | -43.59           | -20         | Pass    |
| 8DPSK         | LCH     | -42.68           | -20         | Pass    |
|               | MCH     | -42.9            | -20         | Pass    |
|               | HCH     | -43.13           | -20         | Pass    |

## 8.2 Test Graphs

