

## 6.4.Test Result

1M:

| Test Mode | Frequency    | 6dB Bandwidth (MHz) | Limit (KHz) | Result |
|-----------|--------------|---------------------|-------------|--------|
| GFSK      | Low channel  | 0.688               | $\geq 500$  | PASS   |
|           | Mid channel  | 0.689               | $\geq 500$  | PASS   |
|           | High channel | 0.672               | $\geq 500$  | PASS   |

2M:

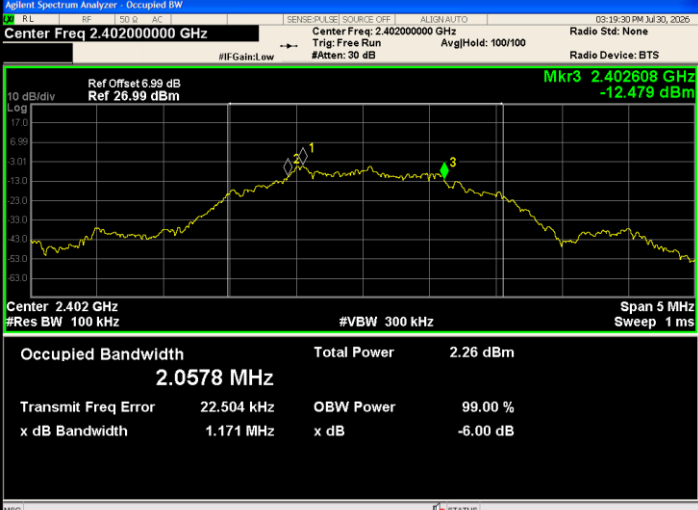
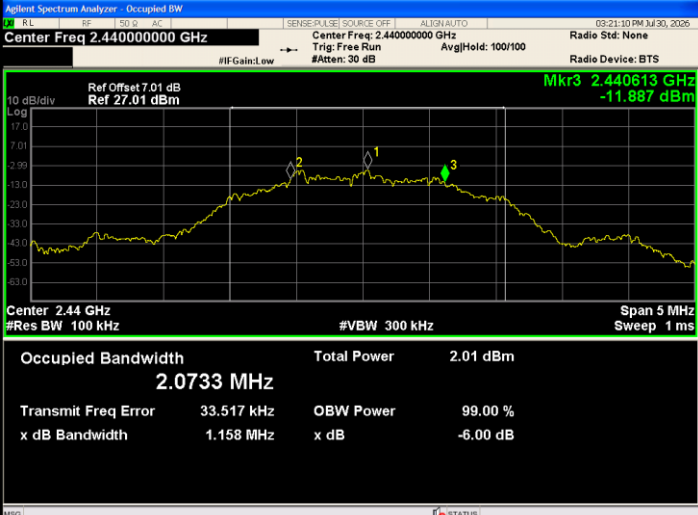
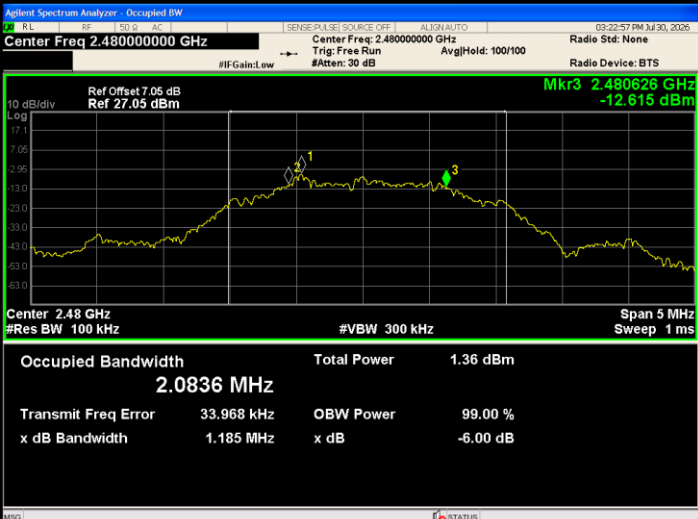
| Test Mode | Frequency    | 6dB Bandwidth (MHz) | Limit (KHz) | Result |
|-----------|--------------|---------------------|-------------|--------|
| GFSK      | Low channel  | 1.171               | $\geq 500$  | PASS   |
|           | Mid channel  | 1.158               | $\geq 500$  | PASS   |
|           | High channel | 1.185               | $\geq 500$  | PASS   |

Note: All modes of operation were Pre-scan and the worst-case emissions are reported.

1M:  
Test Graph:

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>GFSK<br/>Low channel</p>  | <div><div>Agilent Spectrum Analyzer - Occupied BW</div><div><div>RL</div><div>RF</div><div>50 dB</div><div>AC</div></div><div><div>Center Freq 2.402000000 GHz</div><div>SENSE: PULSE SOURCE OFF</div><div>ALIGN: AUTO</div><div>03:13:17 PM Jul 30, 2026</div></div><div><div>Center Freq: 2.402000000 GHz</div><div>Radio Std: None</div><div>Trig: Free Run</div><div>Avg/Hold: 100/100</div><div>#Atten: 30 dB</div><div>Radio Device: BTS</div></div><div><div>#IF Gain: Low</div><div>Ref Offset 6.99 dB</div><div>Ref 26.99 dBm</div><div>Mkr3 2.402369 GHz</div><div>-11.249 dBm</div><div>10 dB/div</div><div>Log</div><div>17.0</div><div>9.01</div><div>3.01</div><div>-3.01</div><div>-9.01</div><div>-17.0</div><div>-33.0</div><div>-43.0</div><div>-53.0</div><div>-63.0</div><div>Center 2.402 GHz</div><div>#Res BW 100 kHz</div><div>#VBW 300 kHz</div><div>Span 3 MHz</div><div>Sweep 1 ms</div><div>Occupied Bandwidth</div><div>1.0450 MHz</div><div>Total Power</div><div>1.83 dBm</div><div>Transmit Freq Error</div><div>25.345 kHz</div><div>OBW Power</div><div>99.00 %</div><div>x dB Bandwidth</div><div>688.2 kHz</div><div>x dB</div><div>-6.00 dB</div><div>MSO</div><div>STATUS</div></div></div> |
| <p>GFSK<br/>Mid channel</p>  | <div><div>Agilent Spectrum Analyzer - Occupied BW</div><div><div>RL</div><div>RF</div><div>50 dB</div><div>AC</div></div><div><div>Center Freq 2.440000000 GHz</div><div>SENSE: PULSE SOURCE OFF</div><div>ALIGN: AUTO</div><div>03:14:40 PM Jul 30, 2026</div></div><div><div>Center Freq: 2.440000000 GHz</div><div>Radio Std: None</div><div>Trig: Free Run</div><div>Avg/Hold: 100/100</div><div>#Atten: 30 dB</div><div>Radio Device: BTS</div></div><div><div>#IF Gain: Low</div><div>Ref Offset 7.01 dB</div><div>Ref 27.01 dBm</div><div>Mkr3 2.440372 GHz</div><div>-11.460 dBm</div><div>10 dB/div</div><div>Log</div><div>17.0</div><div>9.01</div><div>3.01</div><div>-3.01</div><div>-9.01</div><div>-17.0</div><div>-33.0</div><div>-43.0</div><div>-53.0</div><div>-63.0</div><div>Center 2.44 GHz</div><div>#Res BW 100 kHz</div><div>#VBW 300 kHz</div><div>Span 3 MHz</div><div>Sweep 1 ms</div><div>Occupied Bandwidth</div><div>1.0428 MHz</div><div>Total Power</div><div>1.67 dBm</div><div>Transmit Freq Error</div><div>27.165 kHz</div><div>OBW Power</div><div>99.00 %</div><div>x dB Bandwidth</div><div>689.3 kHz</div><div>x dB</div><div>-6.00 dB</div><div>MSO</div><div>STATUS</div></div></div>  |
| <p>GFSK<br/>High channel</p> | <div><div>Agilent Spectrum Analyzer - Occupied BW</div><div><div>RL</div><div>RF</div><div>50 dB</div><div>AC</div></div><div><div>Center Freq 2.480000000 GHz</div><div>SENSE: PULSE SOURCE OFF</div><div>ALIGN: AUTO</div><div>03:16:10 PM Jul 30, 2026</div></div><div><div>Center Freq: 2.480000000 GHz</div><div>Radio Std: None</div><div>Trig: Free Run</div><div>Avg/Hold: 100/100</div><div>#Atten: 30 dB</div><div>Radio Device: BTS</div></div><div><div>#IF Gain: Low</div><div>Ref Offset 7.05 dB</div><div>Ref 27.05 dBm</div><div>Mkr3 2.480366 GHz</div><div>-11.779 dBm</div><div>10 dB/div</div><div>Log</div><div>17.1</div><div>9.05</div><div>3.05</div><div>-3.05</div><div>-9.05</div><div>-17.1</div><div>-33.0</div><div>-43.0</div><div>-53.0</div><div>-63.0</div><div>Center 2.48 GHz</div><div>#Res BW 100 kHz</div><div>#VBW 300 kHz</div><div>Span 3 MHz</div><div>Sweep 1 ms</div><div>Occupied Bandwidth</div><div>1.0385 MHz</div><div>Total Power</div><div>1.22 dBm</div><div>Transmit Freq Error</div><div>30.190 kHz</div><div>OBW Power</div><div>99.00 %</div><div>x dB Bandwidth</div><div>671.9 kHz</div><div>x dB</div><div>-6.00 dB</div><div>MSO</div><div>STATUS</div></div></div>  |

2M:  
Test Graph:

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>GFSK<br/>Low channel</p>  |  <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.402000000 GHz</p> <p>Center Freq: 2.402000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset: 6.99 dB</p> <p>Ref 26.99 dBm</p> <p>Mkr3 2.402608 GHz</p> <p>-12.479 dBm</p> <p>Center 2.402 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 5 MHz</p> <p>Sweep 1 ms</p> <p>Occupied Bandwidth 2.0578 MHz</p> <p>Total Power 2.26 dBm</p> <p>Transmit Freq Error 22.504 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 1.171 MHz</p> <p>x dB -6.00 dB</p>  |
| <p>GFSK<br/>Mid channel</p>  |  <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.440000000 GHz</p> <p>Center Freq: 2.440000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset: 7.01 dB</p> <p>Ref 27.01 dBm</p> <p>Mkr3 2.440613 GHz</p> <p>-11.887 dBm</p> <p>Center 2.44 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 5 MHz</p> <p>Sweep 1 ms</p> <p>Occupied Bandwidth 2.0733 MHz</p> <p>Total Power 2.01 dBm</p> <p>Transmit Freq Error 33.517 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 1.158 MHz</p> <p>x dB -6.00 dB</p>  |
| <p>GFSK<br/>High channel</p> |  <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.480000000 GHz</p> <p>Center Freq: 2.480000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset: 7.05 dB</p> <p>Ref 27.05 dBm</p> <p>Mkr3 2.480626 GHz</p> <p>-12.616 dBm</p> <p>Center 2.48 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 5 MHz</p> <p>Sweep 1 ms</p> <p>Occupied Bandwidth 2.0836 MHz</p> <p>Total Power 1.36 dBm</p> <p>Transmit Freq Error 33.968 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 1.185 MHz</p> <p>x dB -6.00 dB</p> |

## 7. Maximum Peak Output Power

### 7.1.Limit

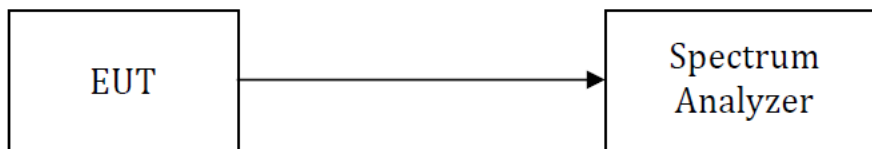
Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;

ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

| FCC Part15 (15.247) , Subpart C |                   |                 |                       |        |
|---------------------------------|-------------------|-----------------|-----------------------|--------|
| Section                         | Test Item         | Limit           | Frequency Range (MHz) | Result |
| 15.247(b)(3)                    | Peak Output Power | 1 watt or 30dBm | 2400-2483.5           | PASS   |

### 7.2.Test Setup



### 7.3.Test Procedure

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

- Set the RBW  $\geq$  DTS bandwidth.
- Set VBW  $\geq 3 \times$  RBW.
- Set span  $\geq 3 \times$  RBW
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

## 7.4.Test Result

1M:

| Mode | Channel. | Maximum Output Power [dBm] | Limit[dBm] | Verdict |
|------|----------|----------------------------|------------|---------|
| GFSK | LCH      | -4.034                     | 30         | PASS    |
|      | MCH      | -4.277                     | 30         | PASS    |
|      | HCH      | -4.661                     | 30         | PASS    |

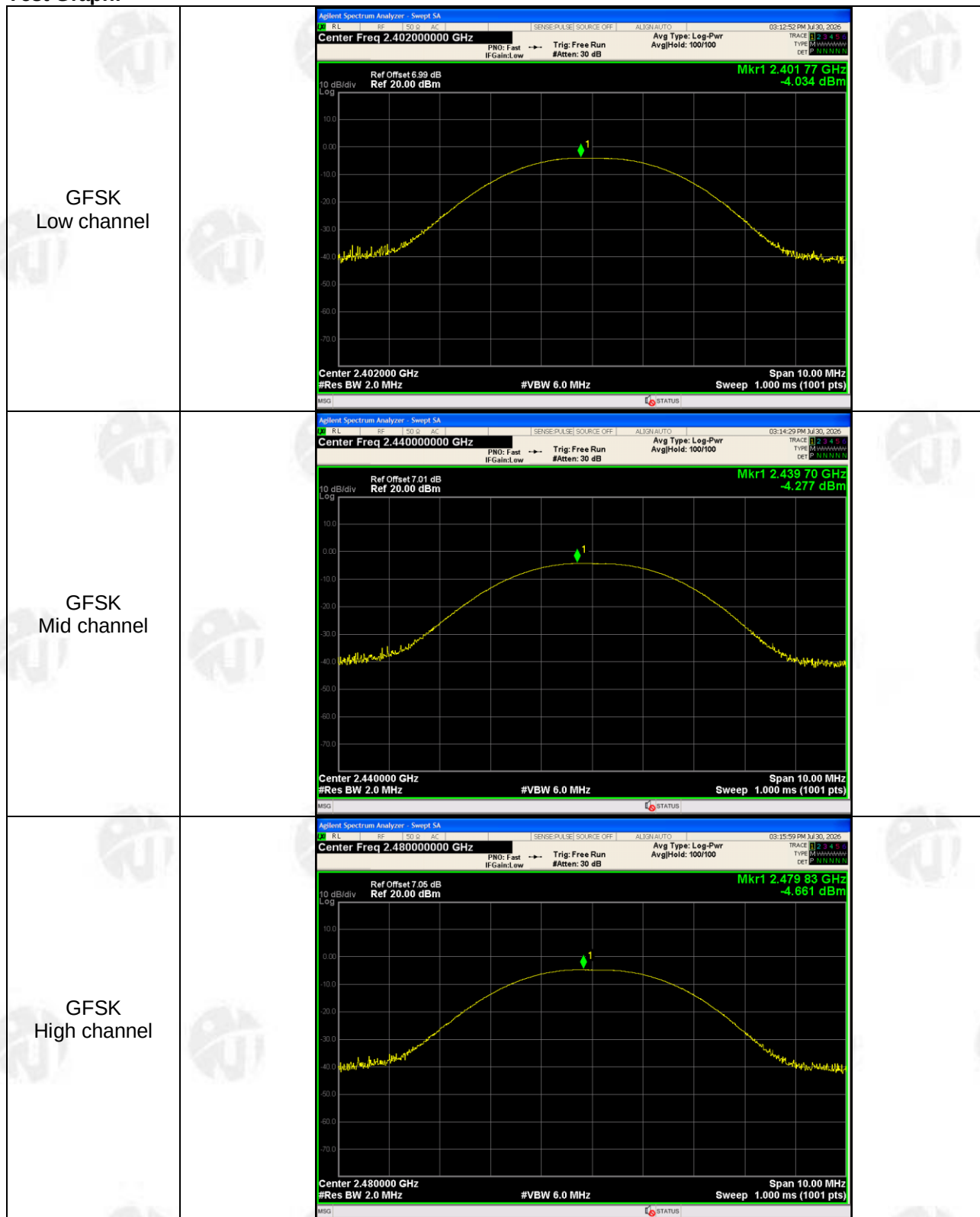
2M:

| Mode | Channel. | Maximum Output Power [dBm] | Limit[dBm] | Verdict |
|------|----------|----------------------------|------------|---------|
| GFSK | LCH      | -3.949                     | 30         | PASS    |
|      | MCH      | -4.107                     | 30         | PASS    |
|      | HCH      | -4.546                     | 30         | PASS    |

Note: Duty Cycle Factor=  $10 \log (1/x)$ , x is Duty Cycle.

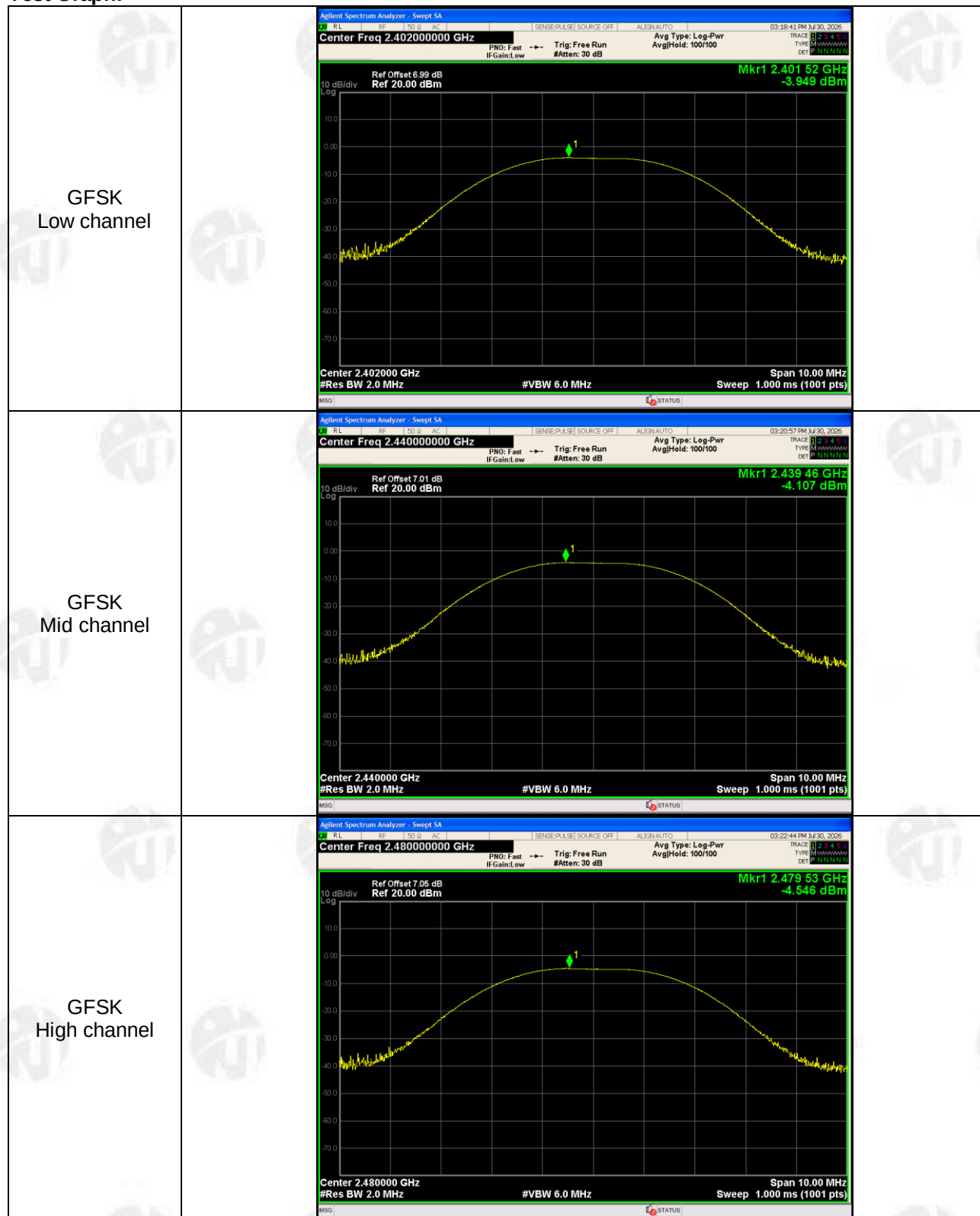
1M:

Test Graph:



2M:

Test Graph:



## 8. Power Spectral density

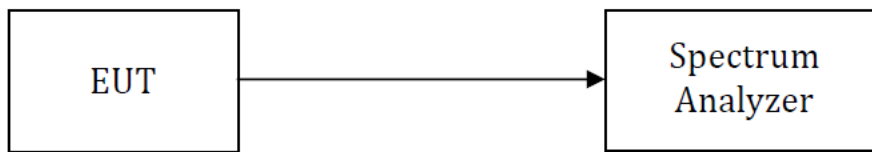
### 8.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02April 2,2019; ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

| FCC Part15 (15.247) , Subpart C |                        |           |                       |        |
|---------------------------------|------------------------|-----------|-----------------------|--------|
| Section                         | Test Item              | Limit     | Frequency Range (MHz) | Result |
| 15.247                          | Power Spectral Density | 8dBm/3kHz | 2400-2483.5           | PASS   |

### 8.2.Test Setup



### 8.3.Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 3kHz. VBW = 10kHz , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

## 8.4.Test Result

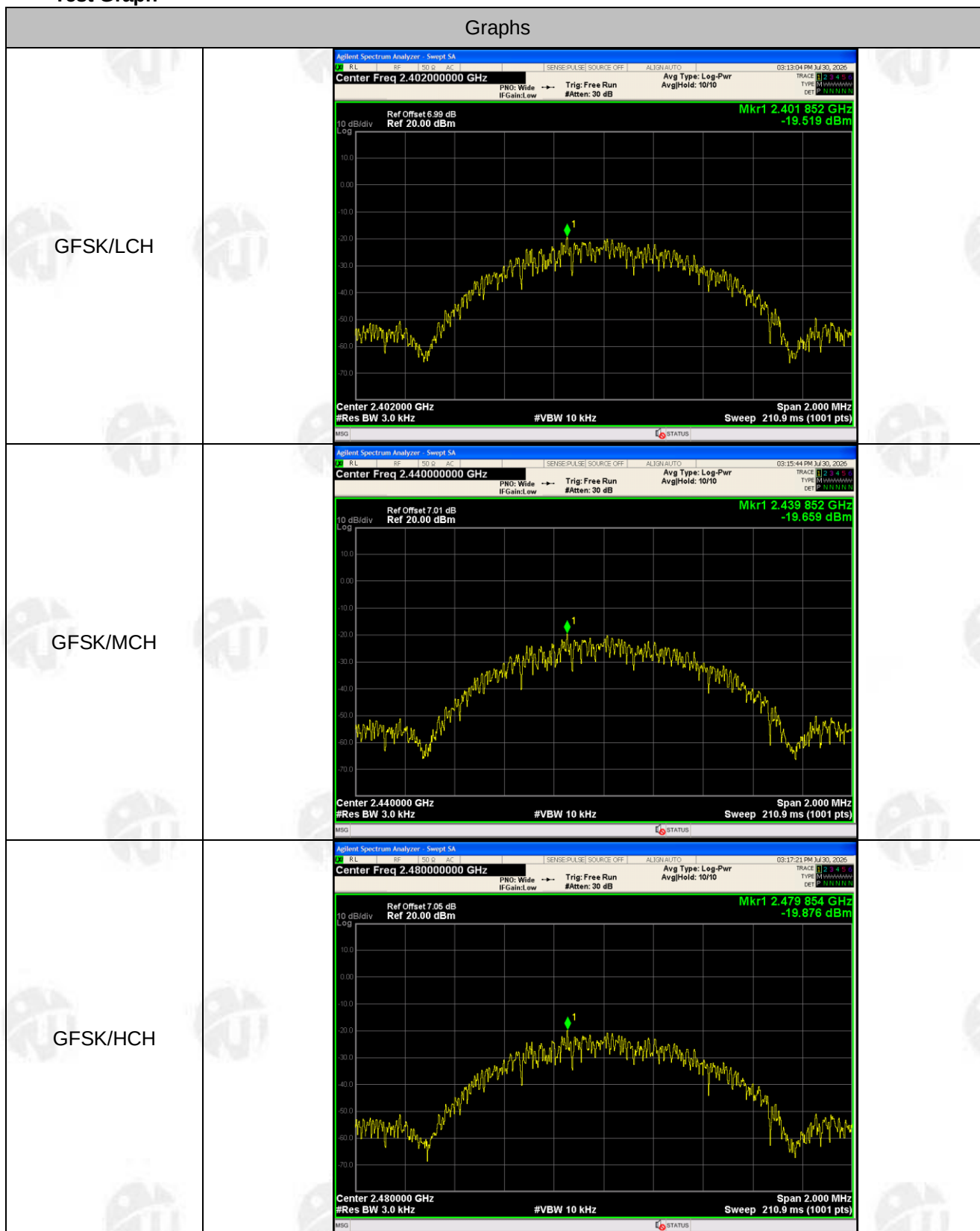
1M:

| Mode | Channel. | Power Spectral Density (dBm/3KHz) | Limit(dBm/3KHz) | Verdict |
|------|----------|-----------------------------------|-----------------|---------|
| GFSK | LCH      | -19.519                           | 8               | PASS    |
| GFSK | MCH      | -19.659                           | 8               | PASS    |
| GFSK | HCH      | -19.876                           | 8               | PASS    |

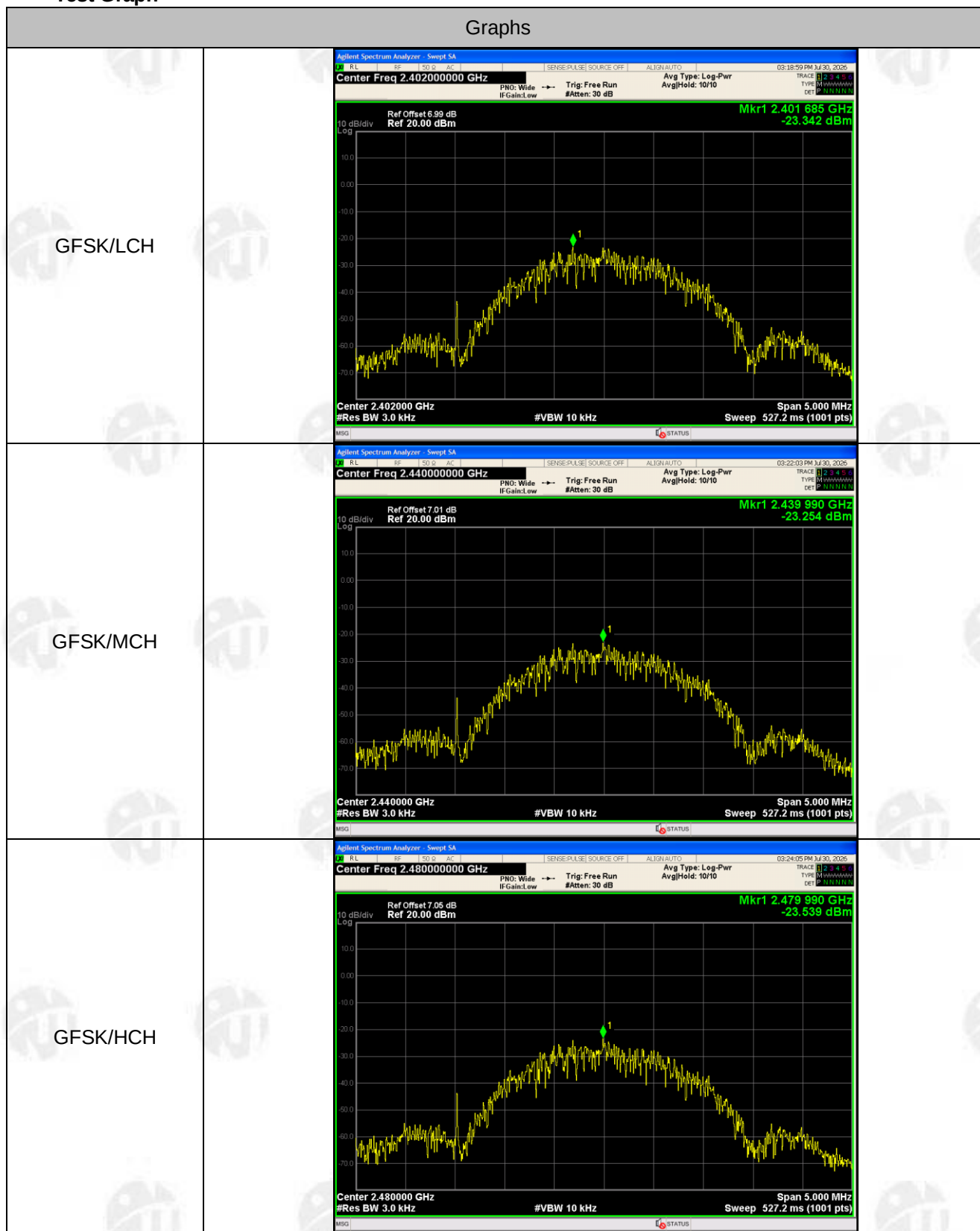
2M:

| Mode | Channel. | Power Spectral Density (dBm/3KHz) | Limit(dBm/3KHz) | Verdict |
|------|----------|-----------------------------------|-----------------|---------|
| GFSK | LCH      | -23.342                           | 8               | PASS    |
| GFSK | MCH      | -23.254                           | 8               | PASS    |
| GFSK | HCH      | -23.539                           | 8               | PASS    |

1M:  
Test Graph



2M:  
Test Graph



## 9. Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. This product has an integrated antenna fulfill the requirement of this section.

This product has a PCB antenna, and the maximum antenna gain is 2.27dBi, fulfill the requirement of this section.

## 10. TEST SETUP & EUT PHOTOGRAPH

Please see the attachment for details.

----- End of Report -----