

## Appendix A

### RF Test Data for GFSK (Conducted Measurement)

Product Name: Digital Video Baby Monitor

Trade Mark: /

Test Model: VB603-C

#### Environmental Conditions

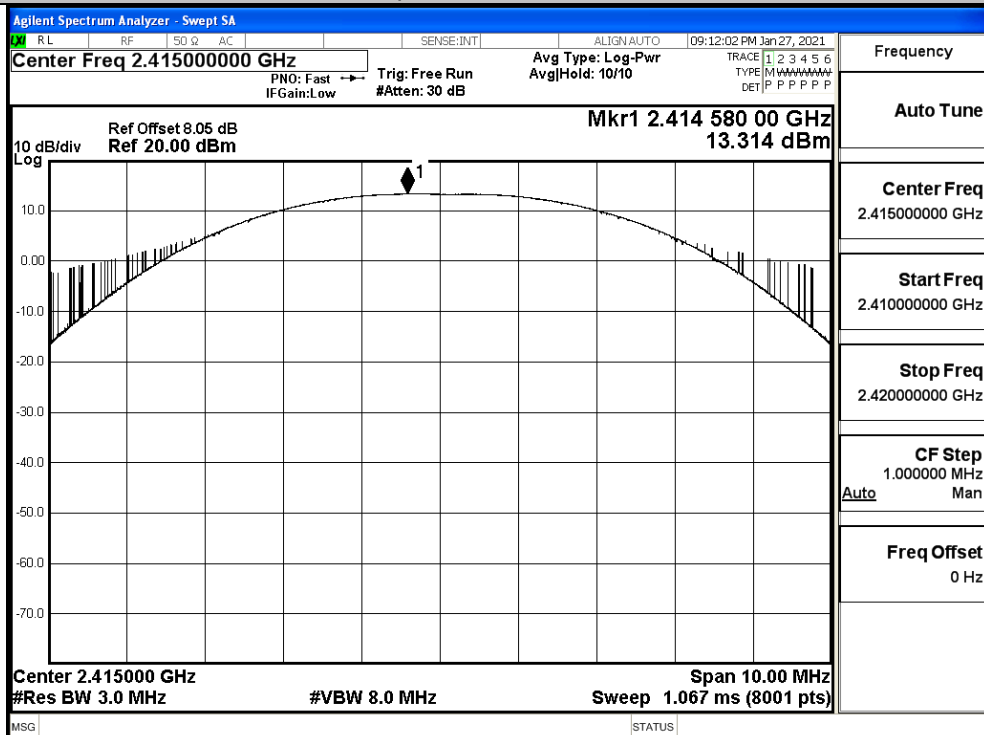
|                    |           |
|--------------------|-----------|
| Temperature:       | 24.6 ° C  |
| Relative Humidity: | 54.1%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Carl Fu   |
| Supervised by:     | Li Huan   |

#### A.1 Maxmum Conducted Peak Output Power

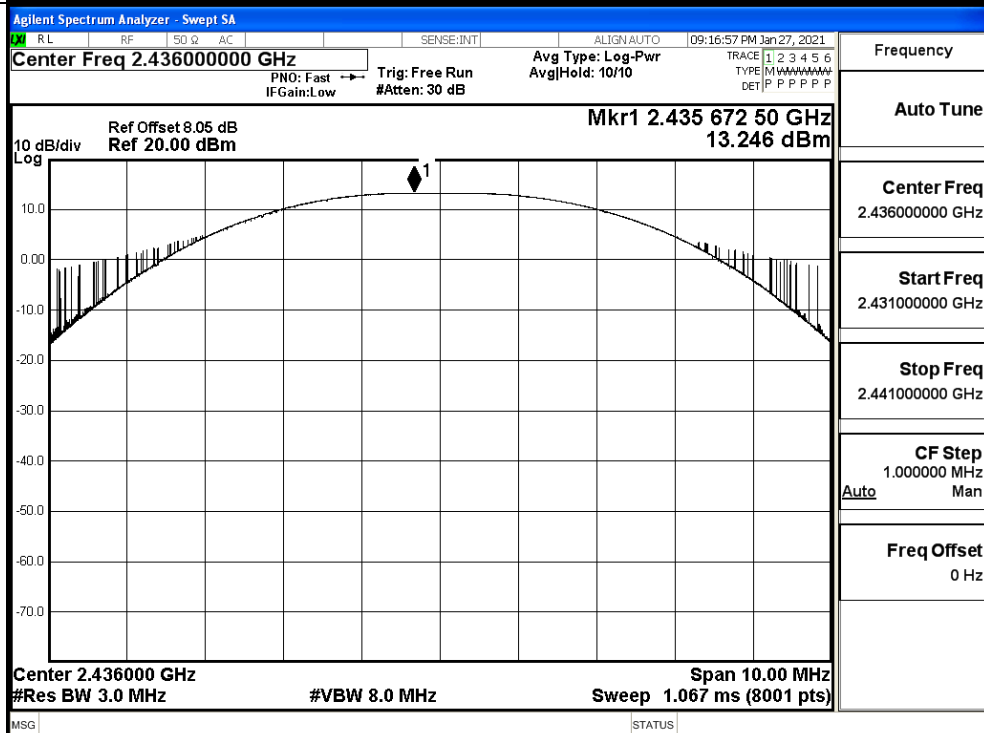
| Mode | Channel. | Maximum Peak Output Power [dBm] | Limit [dBm] | Verdict |
|------|----------|---------------------------------|-------------|---------|
| GFSK | LCH      | 13.314                          | 21          | PASS    |
|      | MCH      | 13.246                          | 21          | PASS    |
|      | HCH      | 12.695                          | 21          | PASS    |

## Test Graphs

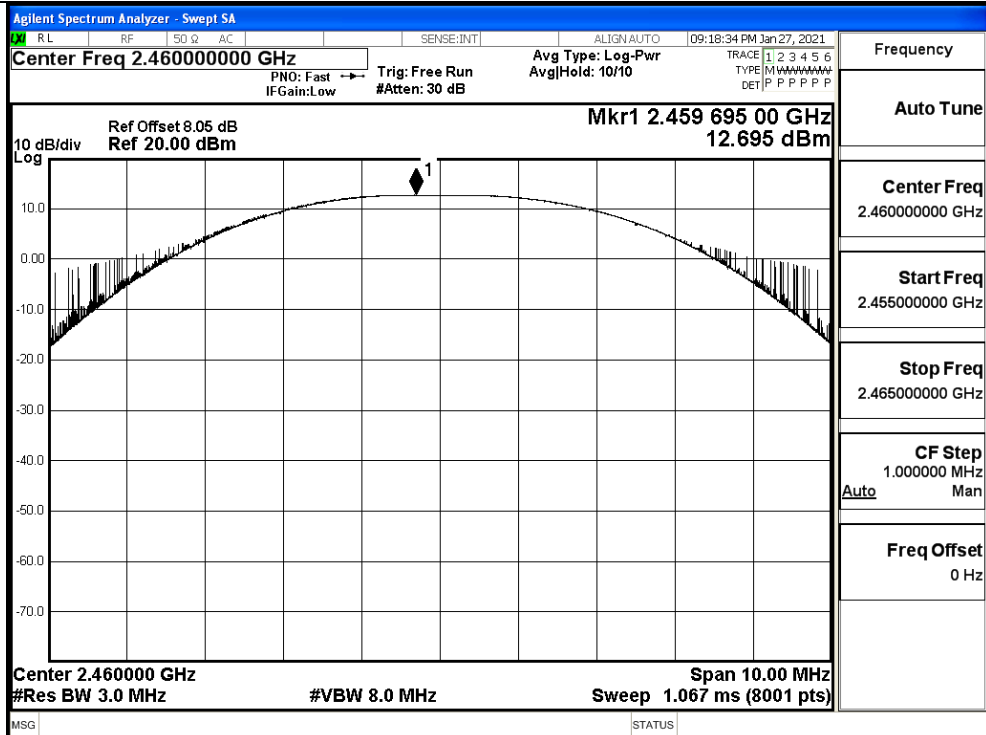
GFSK/LCH



GFSK/MCH



GFSK/HCH

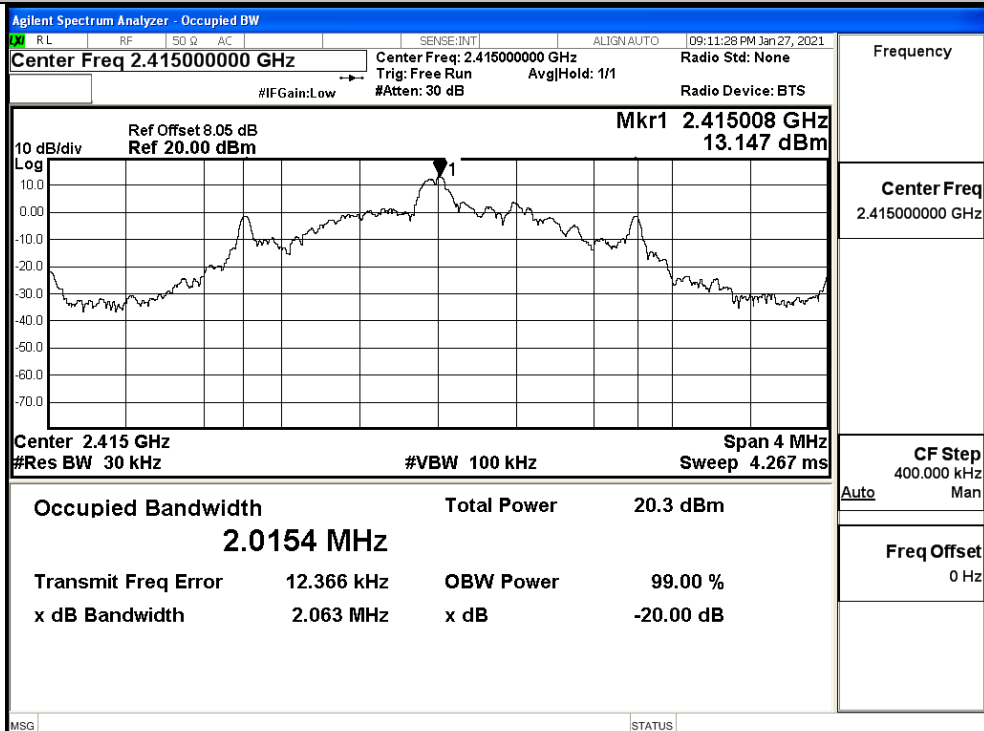


## A.2 20dB Bandwidth

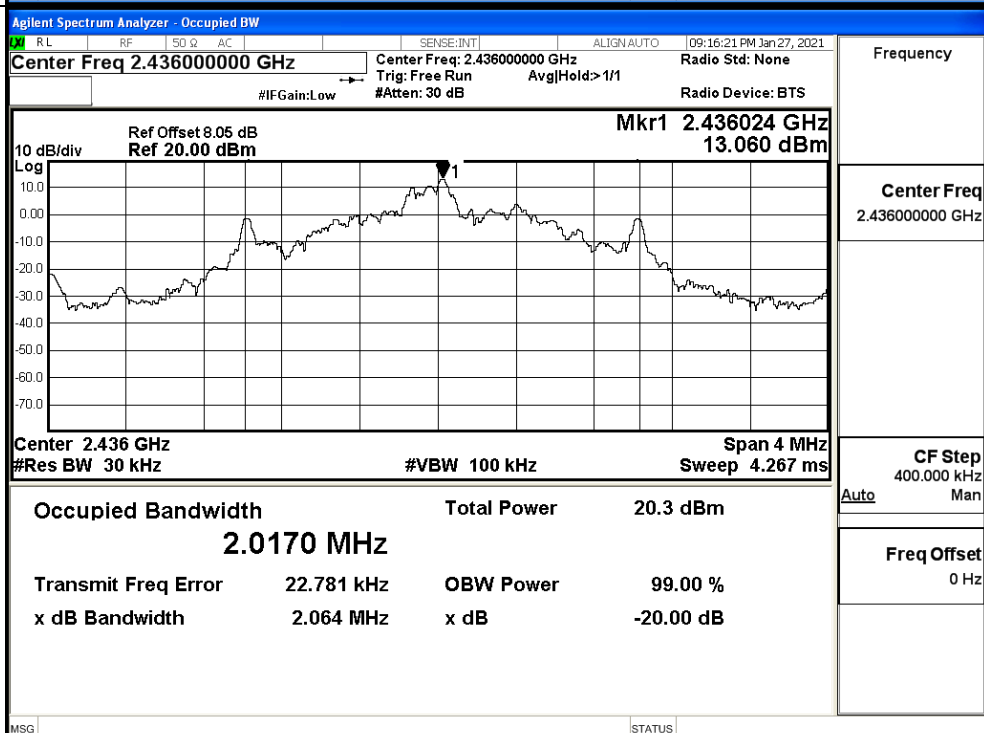
| Mode | Channel. | 20dB Bandwidth [MHz] | Limit [MHz]   | Verdict |
|------|----------|----------------------|---------------|---------|
| GFSK | LCH      | 2.063                | Not Specified | PASS    |
|      | MCH      | 2.064                | Not Specified | PASS    |
|      | HCH      | 2.068                | Not Specified | PASS    |

## Test Graphs

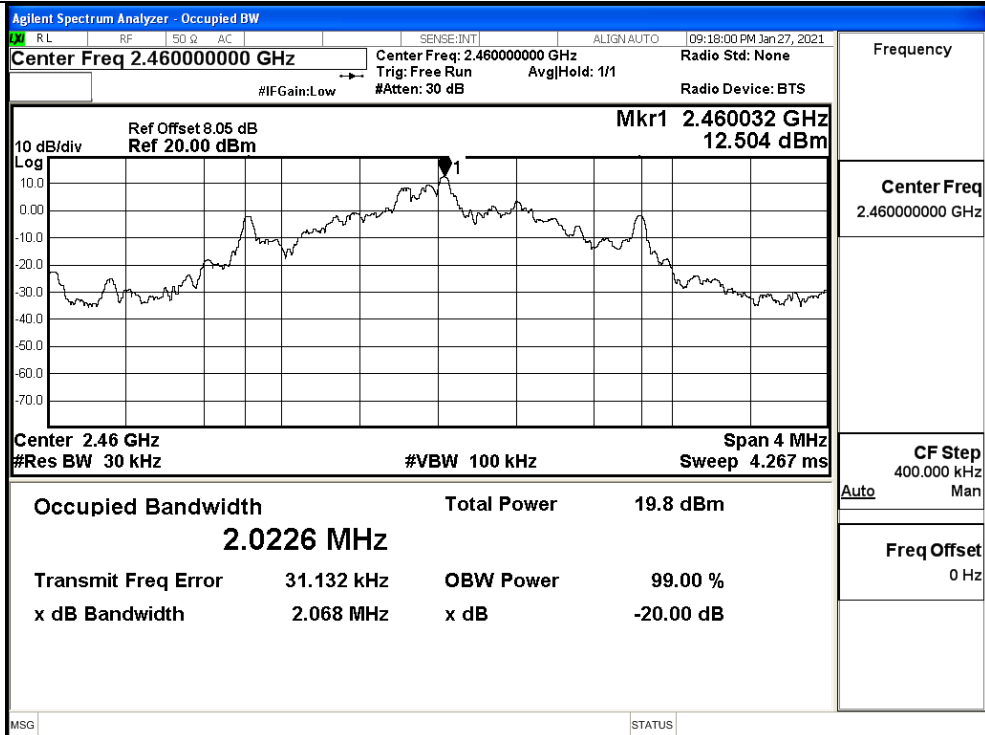
GFSK/LCH



GFSK/MCH

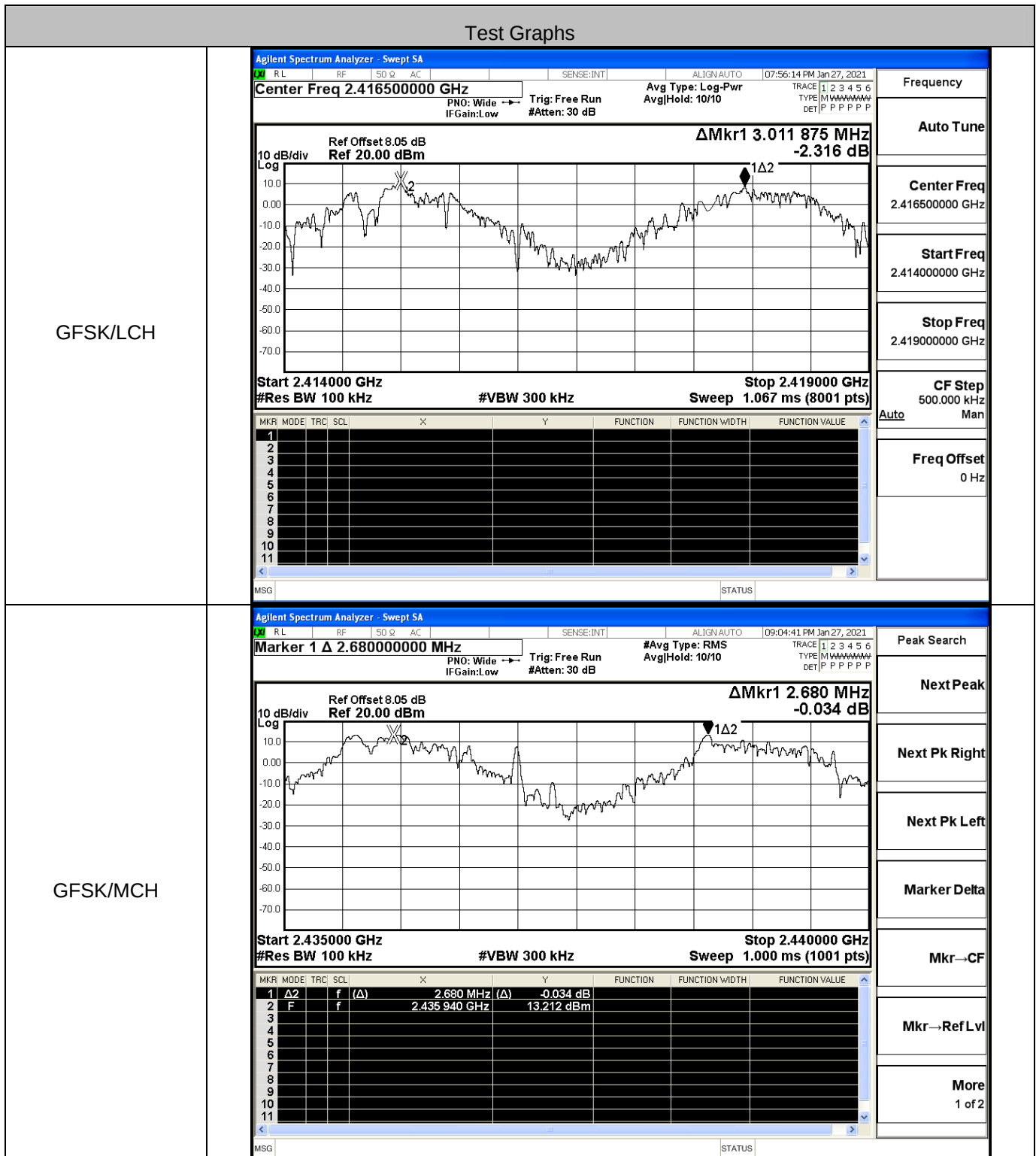


GFSK/HCH



## A.3 Carrier Frequency Separation

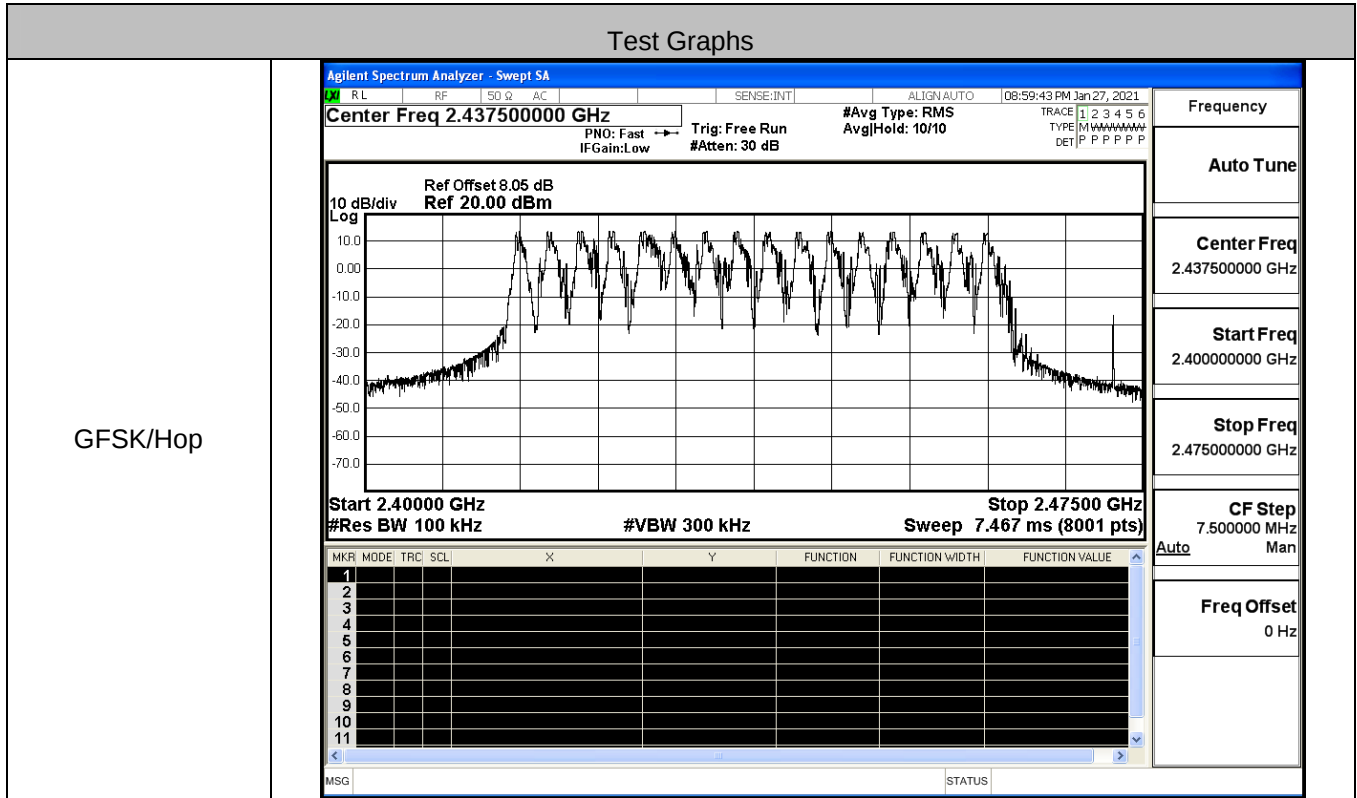
| Mode | Channel. | Carrier Frequency Separation [MHz] | Limit [MHz] | Verdict |
|------|----------|------------------------------------|-------------|---------|
| GFSK | LCH      | 3.011                              | 1.375       | PASS    |
|      | MCH      | 2.68                               | 1.375       | PASS    |
|      | HCH      | 2.66                               | 1.375       | PASS    |



[illegible]

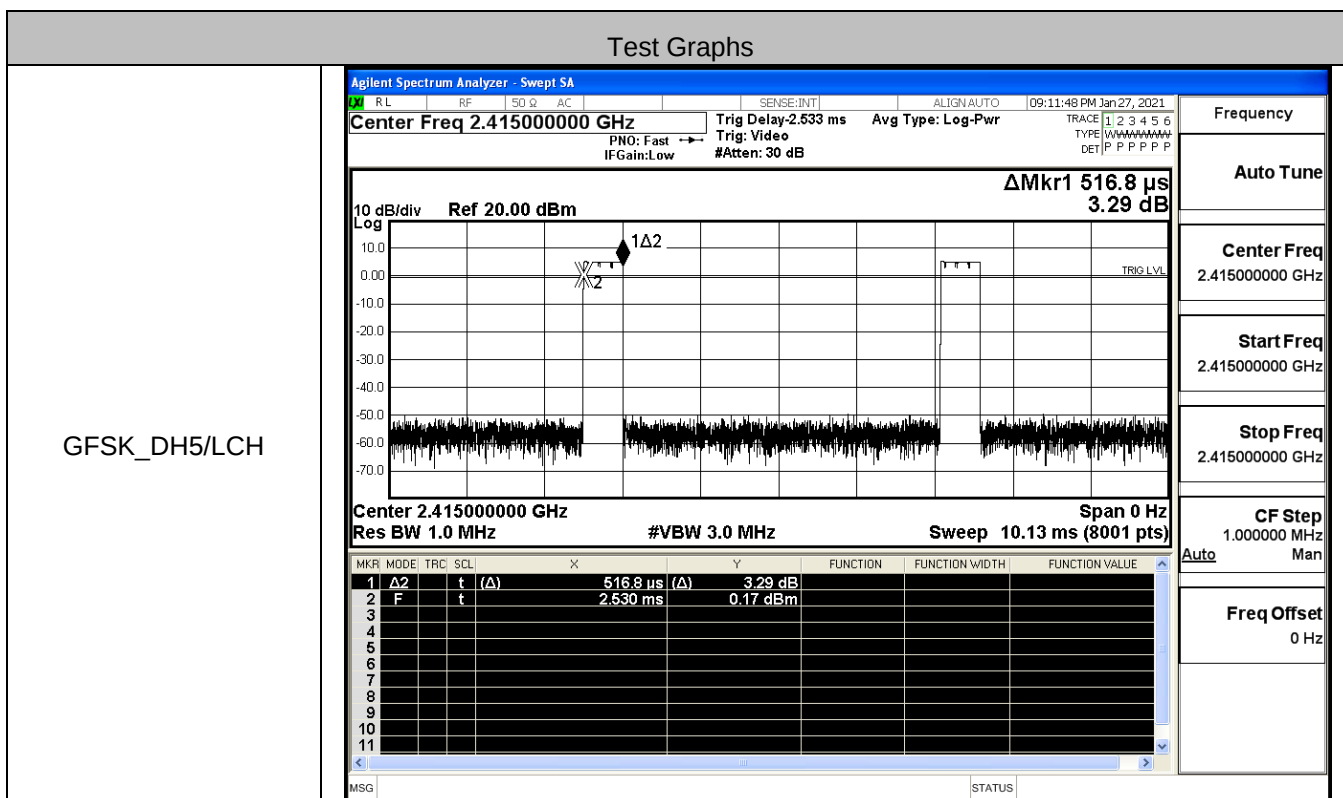
## A.4 Hopping Channel Number

| Mode | Channel. | Number of Hopping Channel [N] | Limit [N] | Verdict |
|------|----------|-------------------------------|-----------|---------|
| GFSK | Hop      | 16                            | >=15      | PASS    |

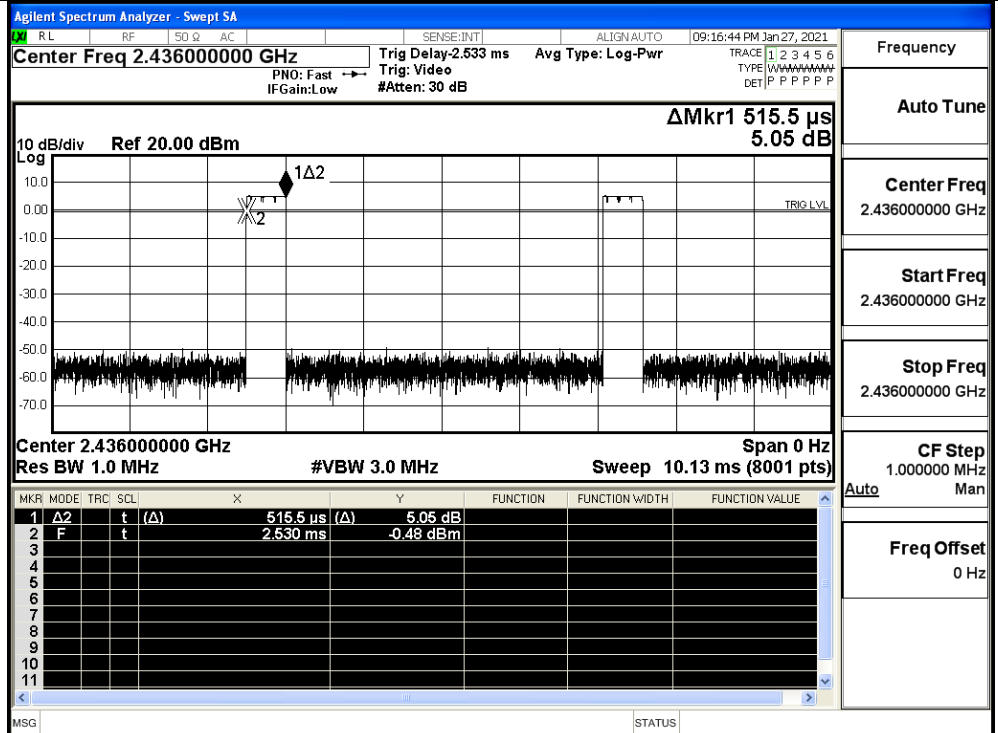


## A.5 Dwell Time

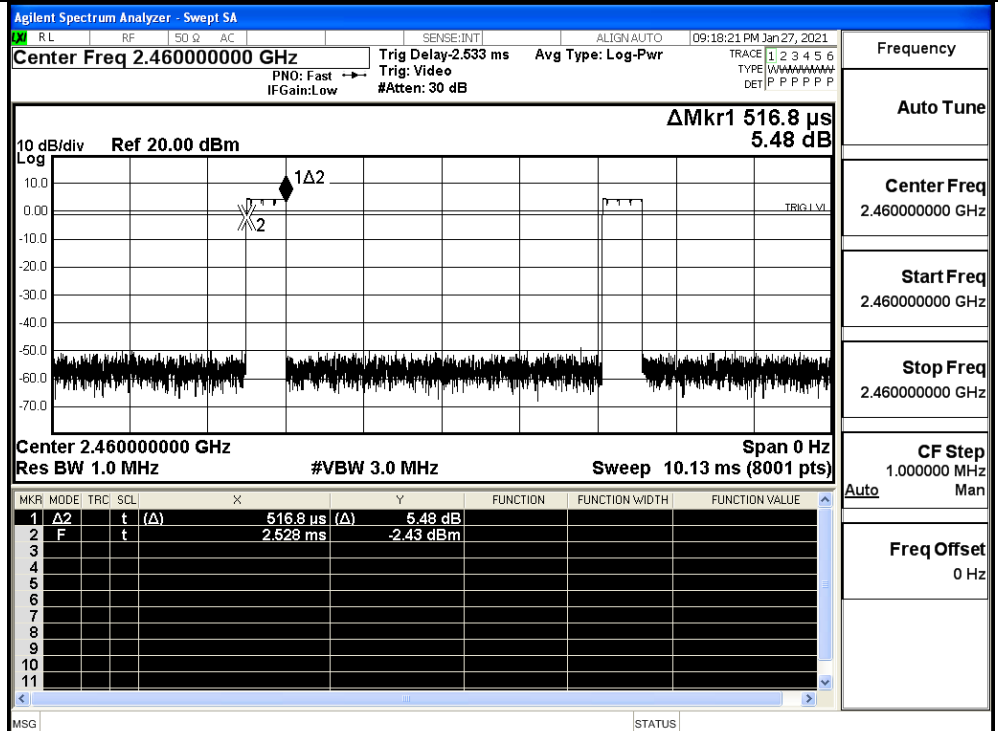
| Mode | Packet | Channel | Burst Width<br>[ms/hop/ch] | Total<br>Hops[hop*ch] | Dwell Time[s] | Limit [s] | Verdict |
|------|--------|---------|----------------------------|-----------------------|---------------|-----------|---------|
| GFSK | DH5    | LCH     | 0.52                       | 106.7                 | 0.055         | 0.4       | PASS    |
|      | DH5    | MCH     | 0.52                       | 106.7                 | 0.055         | 0.4       | PASS    |
|      | DH5    | HCH     | 0.52                       | 106.7                 | 0.055         | 0.4       | PASS    |



GFSK\_DH5/MCH



GFSK\_DH5/HCH

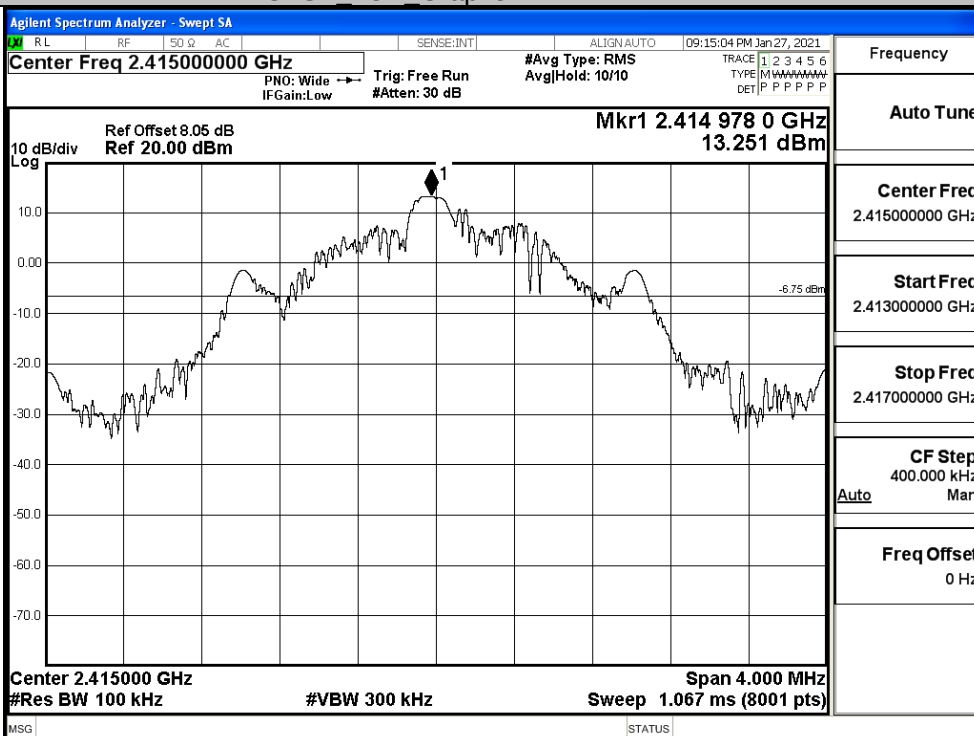


## A.6 RF Conducted Spurious Emissions

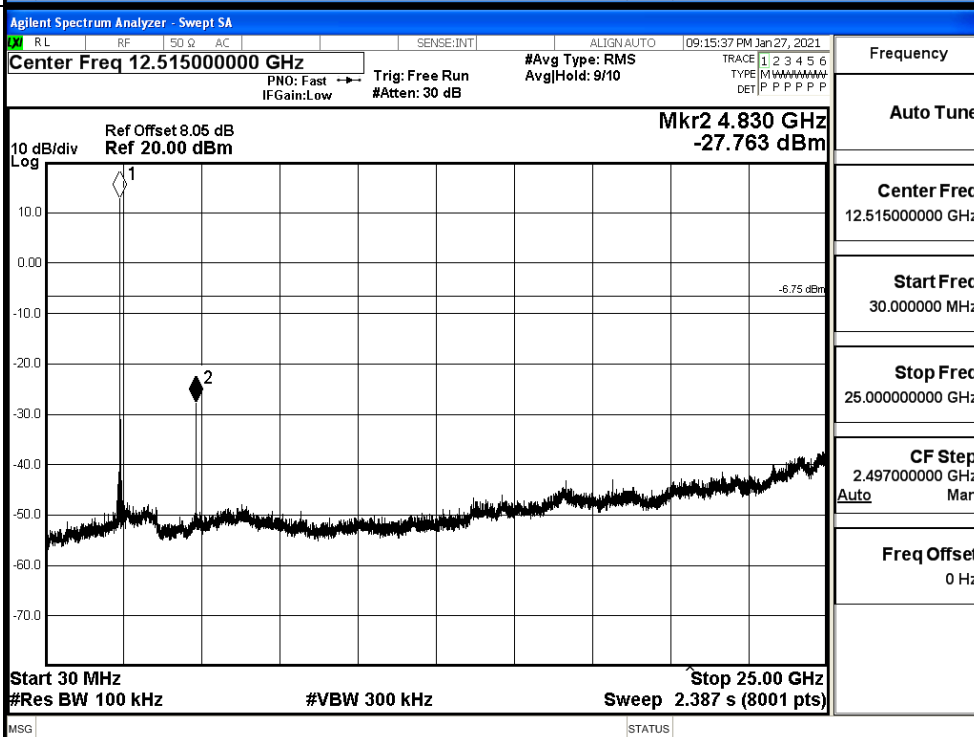
| Mode | Channel | Pref [dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|------|---------|------------|------------------|-------------|---------|
| GFSK | LCH     | 13.251     | -27.763          | -6.75       | PASS    |
|      | MCH     | 13.205     | -36.792          | -6.80       | PASS    |
|      | HCH     | 12.534     | -36.765          | -9.68       | PASS    |

GFSK LCH Graphs

Pref

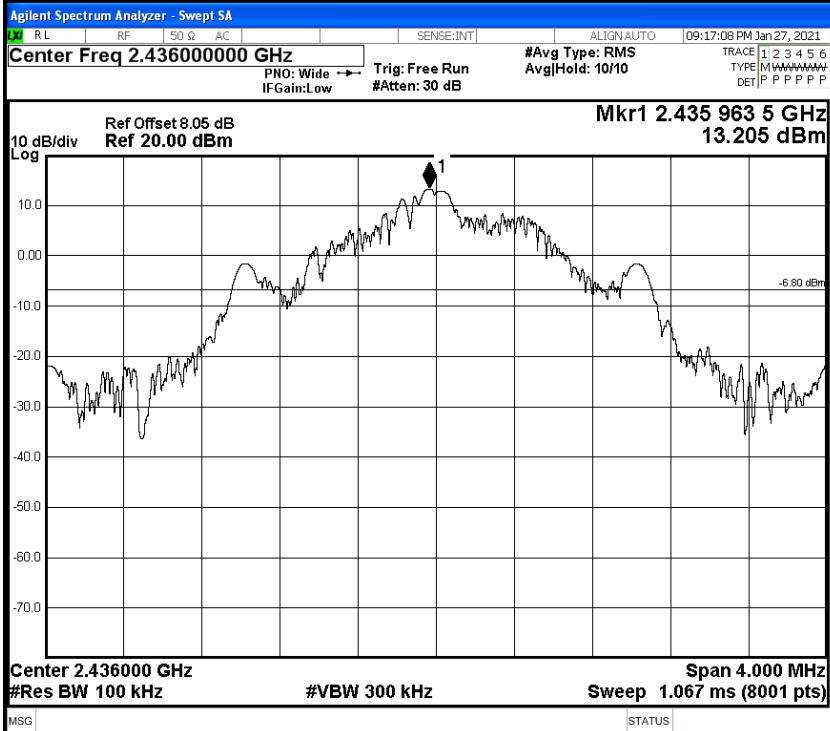


Puw



## GFSK\_MCH\_Graphs

Pref

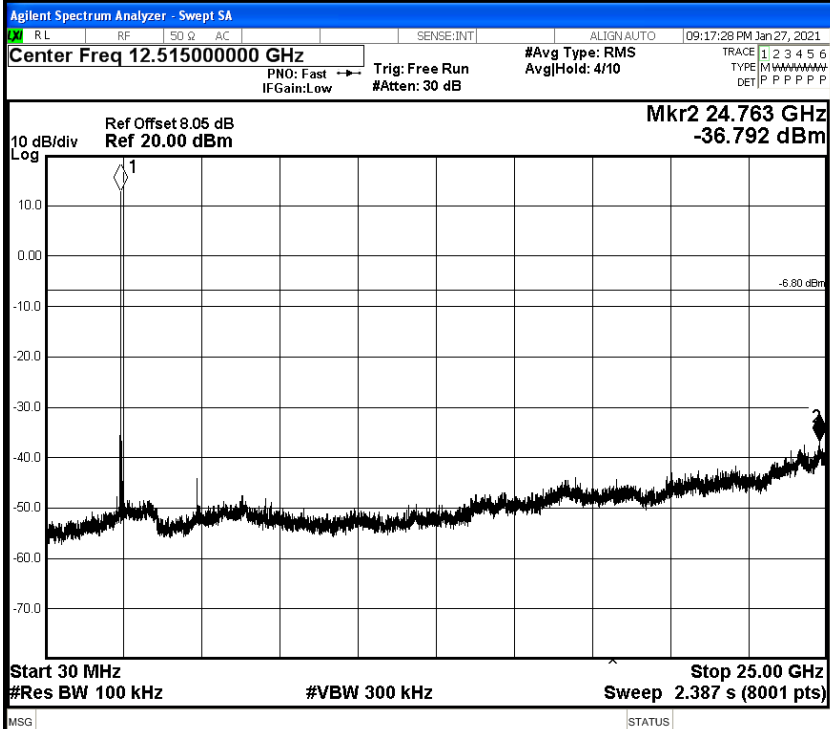


Frequency

Auto Tune

Center Freq  
2.436000000 GHzStart Freq  
2.434000000 GHzStop Freq  
2.438000000 GHzCF Step  
400.000 kHz  
Auto ManFreq Offset  
0 Hz

Puw



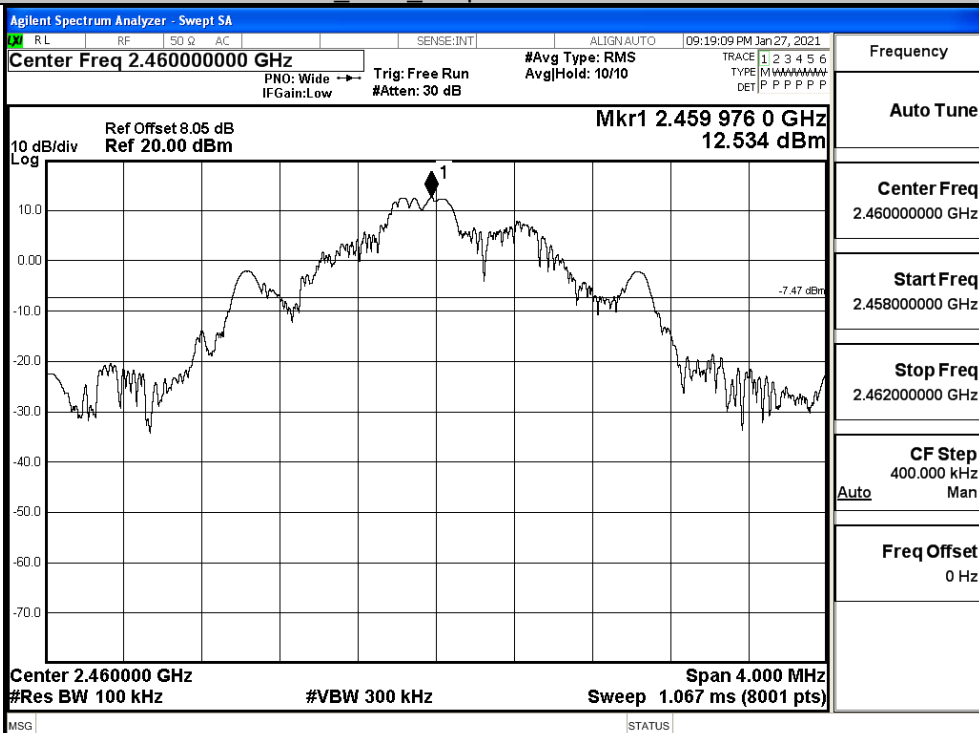
Frequency

Auto Tune

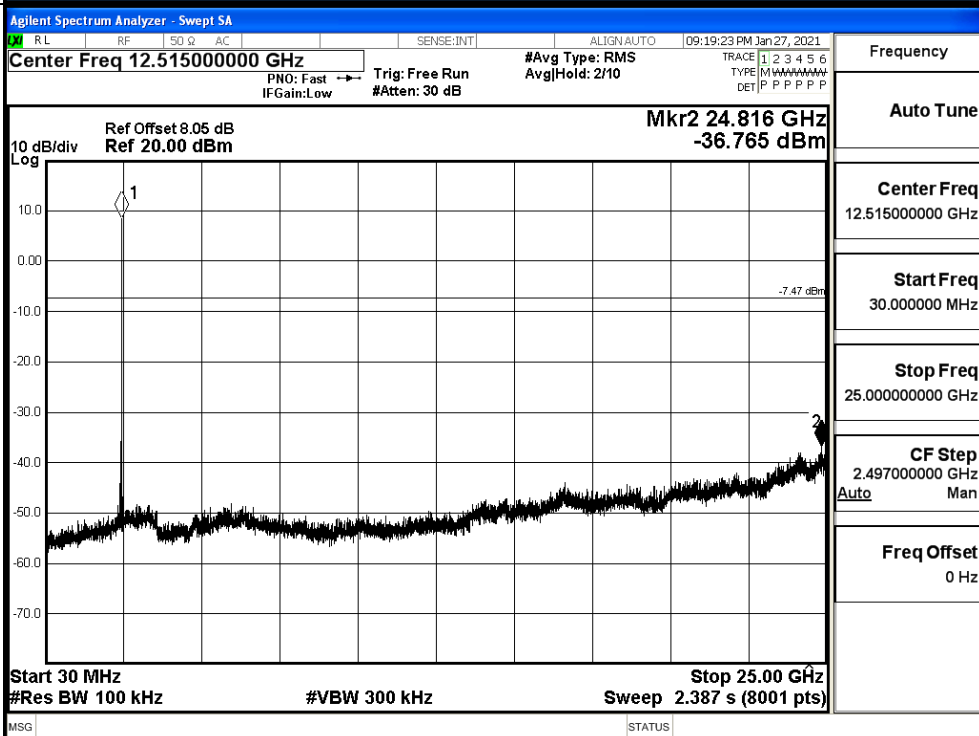
Center Freq  
12.515000000 GHzStart Freq  
30.0000000 MHzStop Freq  
25.000000000 GHzCF Step  
2.497000000 GHz  
Auto ManFreq Offset  
0 Hz

## GFSK HCH\_Graphs

Pref



Puw

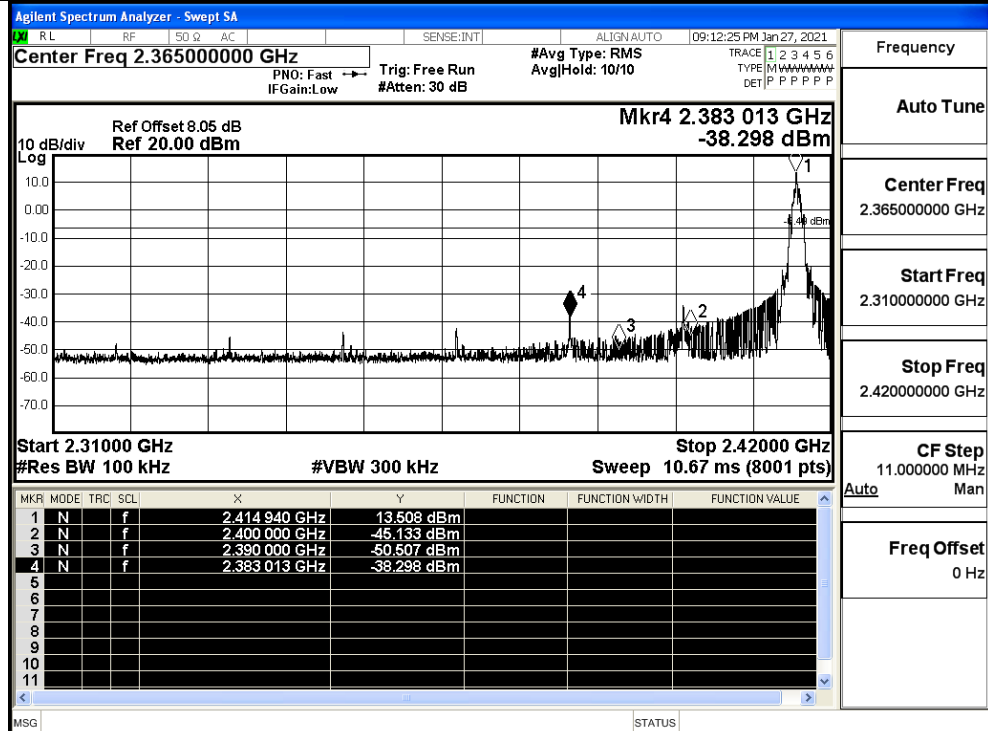


## A.7 Band-edge for RF Conducted Emissions

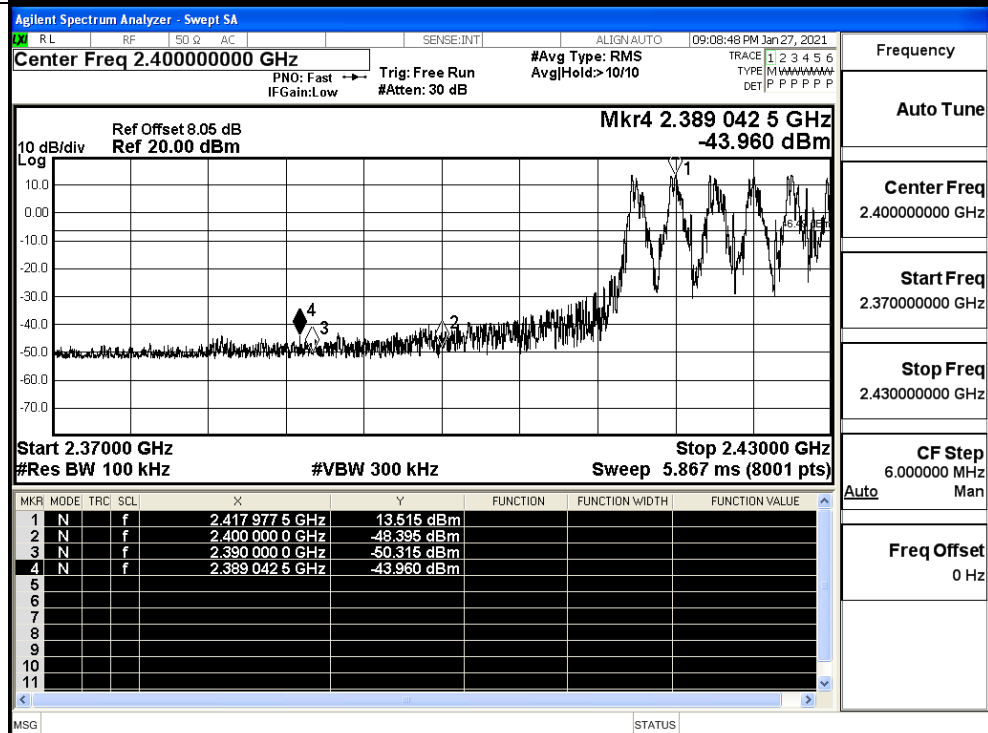
| Mode | Channel | Carrier Frequency [MHz] | Carrier Power [dBm] | Frequency Hopping | Max Spurious Level [dBm] | Limit [dBm] | Verdict |
|------|---------|-------------------------|---------------------|-------------------|--------------------------|-------------|---------|
| GFSK | LCH     | 2415                    | 13.508              | Off               | -38.298                  | -6.49       | PASS    |
|      |         |                         | 13.515              | On                | -43.960                  | -6.49       | PASS    |
|      | HCH     | 2460                    | 12.394              | Off               | -41.005                  | -7.61       | PASS    |
|      |         |                         | 13.063              | On                | -29.804                  | -6.94       | PASS    |

## Test Graphs

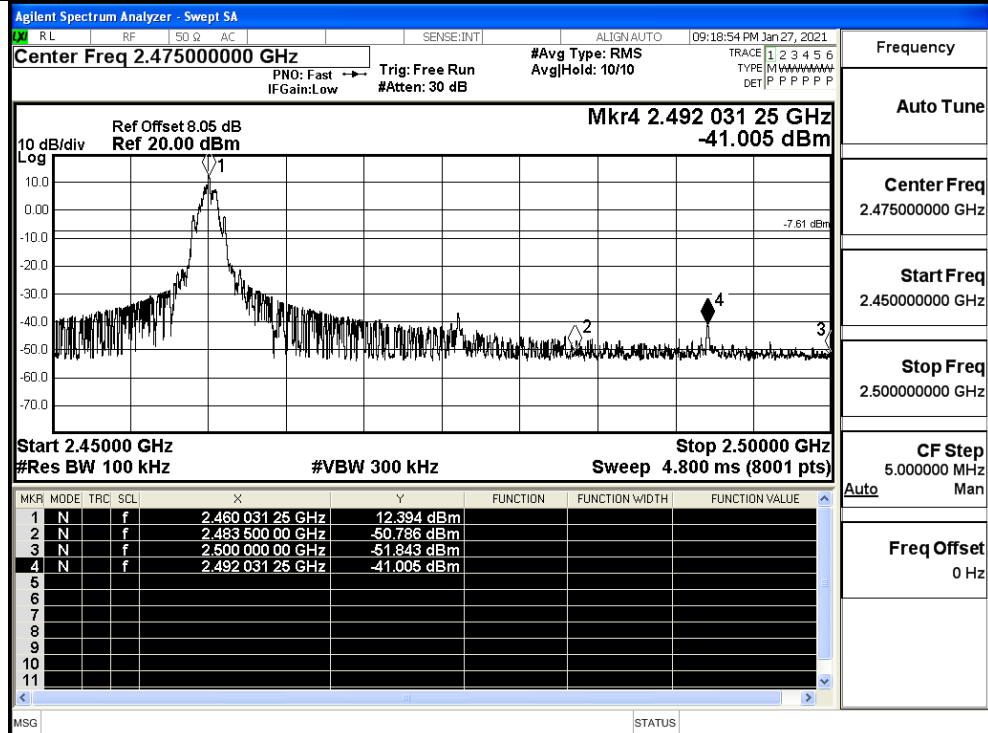
GFSK/LCH/No Hop



GFSK/LCH/Hop



GFSK/HCH/No Hop



Frequency

Auto Tune

Center Freq  
2.475000000 GHz

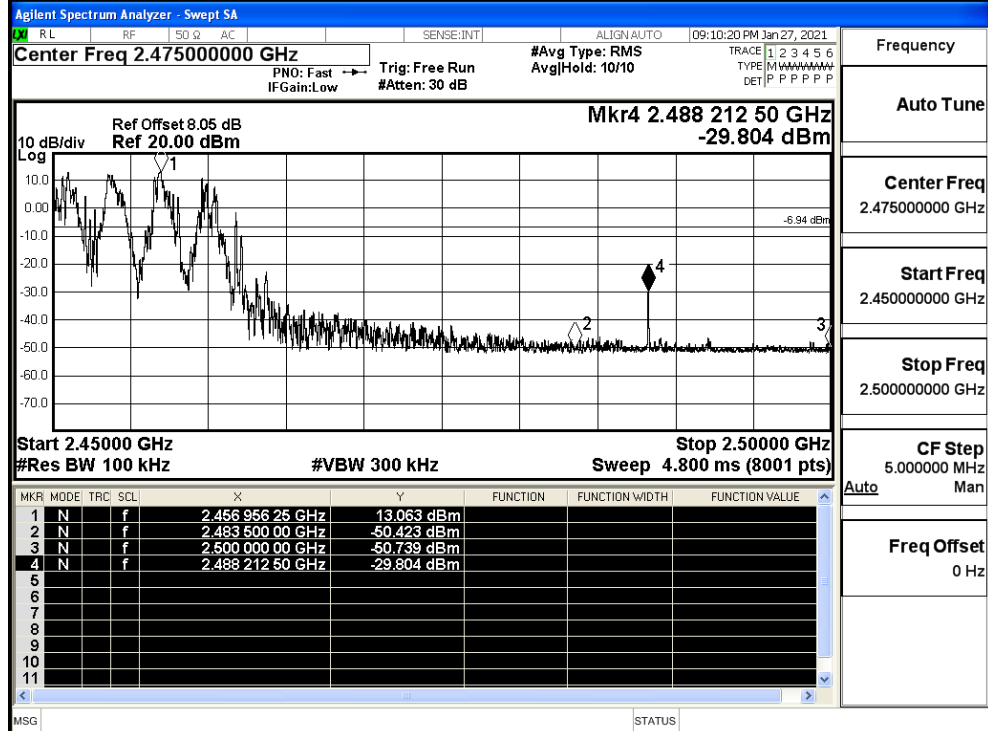
Start Freq  
2.450000000 GHz

Stop Freq  
2.500000000 GHz

CF Step  
5.000000 MHz  
Auto Man

Freq Offset  
0 Hz

GFSK/HCH/Hop



Frequency

Auto Tune

Center Freq  
2.475000000 GHz

Start Freq  
2.450000000 GHz

Stop Freq  
2.500000000 GHz

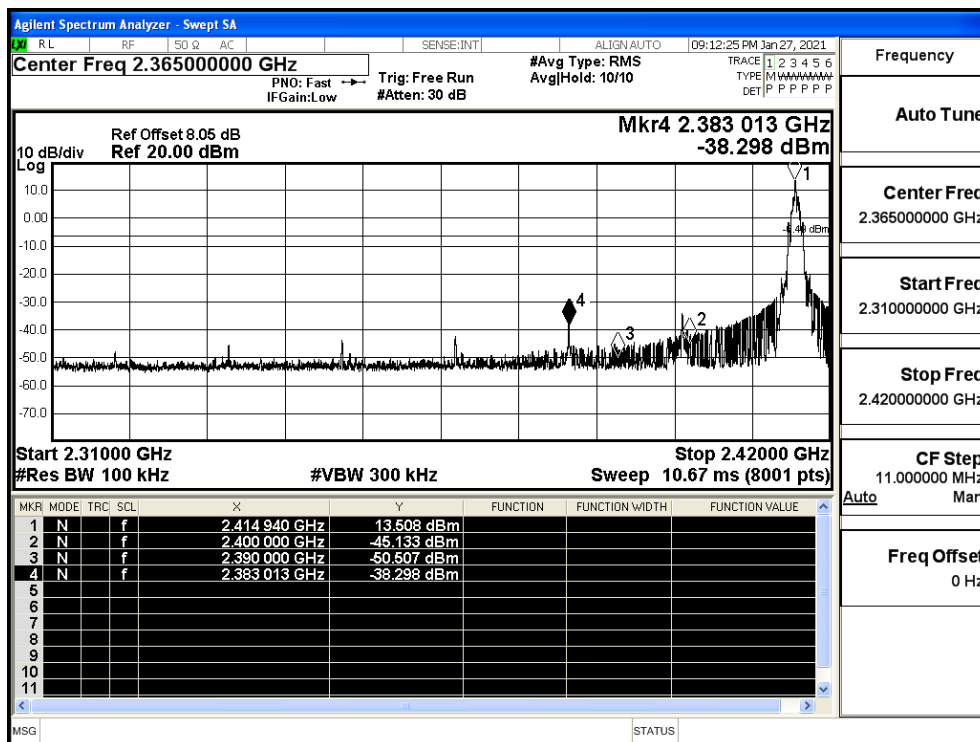
CF Step  
5.000000 MHz  
Auto Man

Freq Offset  
0 Hz

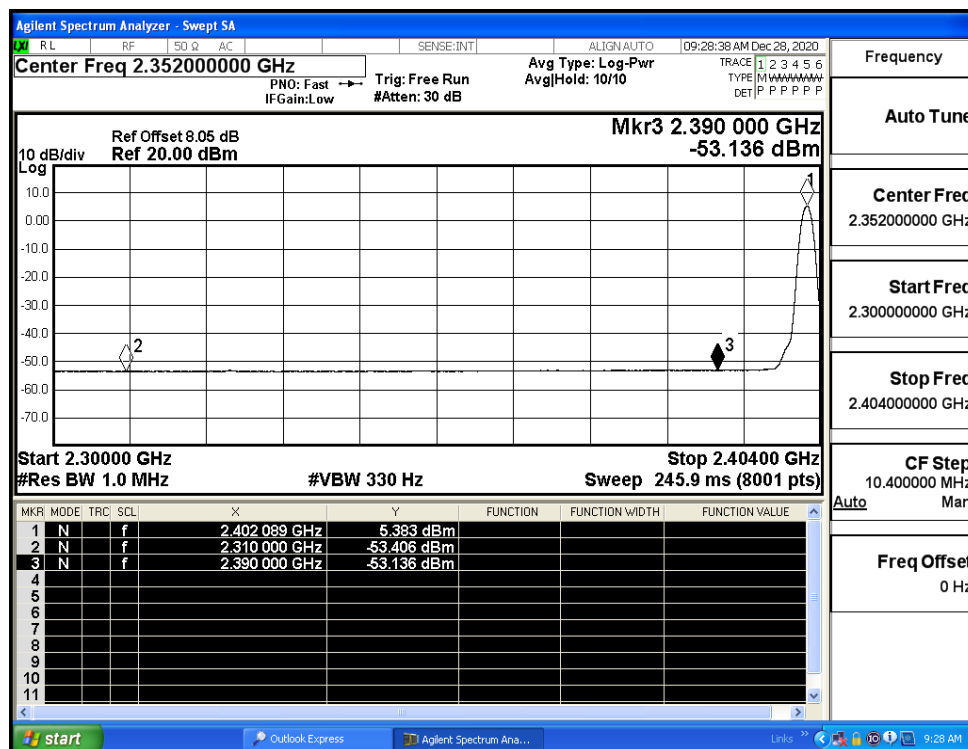
## A.8 Restrict-band band-edge measurements

| Test Mode | Hopping | Freq.  | Power [dBm] | Gain | Ground Factor | E [dBuV/m] | Detector | Limit [dBuV/m] | Verdict |
|-----------|---------|--------|-------------|------|---------------|------------|----------|----------------|---------|
| GFSK      | Off     | 2310.0 | -44.50      | 2.0  | 0             | 50.76      | PEAK     | 74             | PASS    |
|           | Off     | 2310.0 | -53.41      | 2.0  | 0             | 41.85      | AV       | 54             | PASS    |
|           | Off     | 2390.0 | -42.57      | 2.0  | 0             | 52.69      | PEAK     | 74             | PASS    |
|           | Off     | 2390.0 | -53.14      | 2.0  | 0             | 42.12      | AV       | 54             | PASS    |
|           | Off     | 2483.5 | -35.49      | 2.0  | 0             | 59.77      | PEAK     | 74             | PASS    |
|           | Off     | 2483.5 | -45.48      | 2.0  | 0             | 49.77      | AV       | 54             | PASS    |
|           | Off     | 2500.0 | -41.66      | 2.0  | 0             | 53.60      | PEAK     | 74             | PASS    |
|           | Off     | 2500.0 | -52.41      | 2.0  | 0             | 42.85      | AV       | 54             | PASS    |

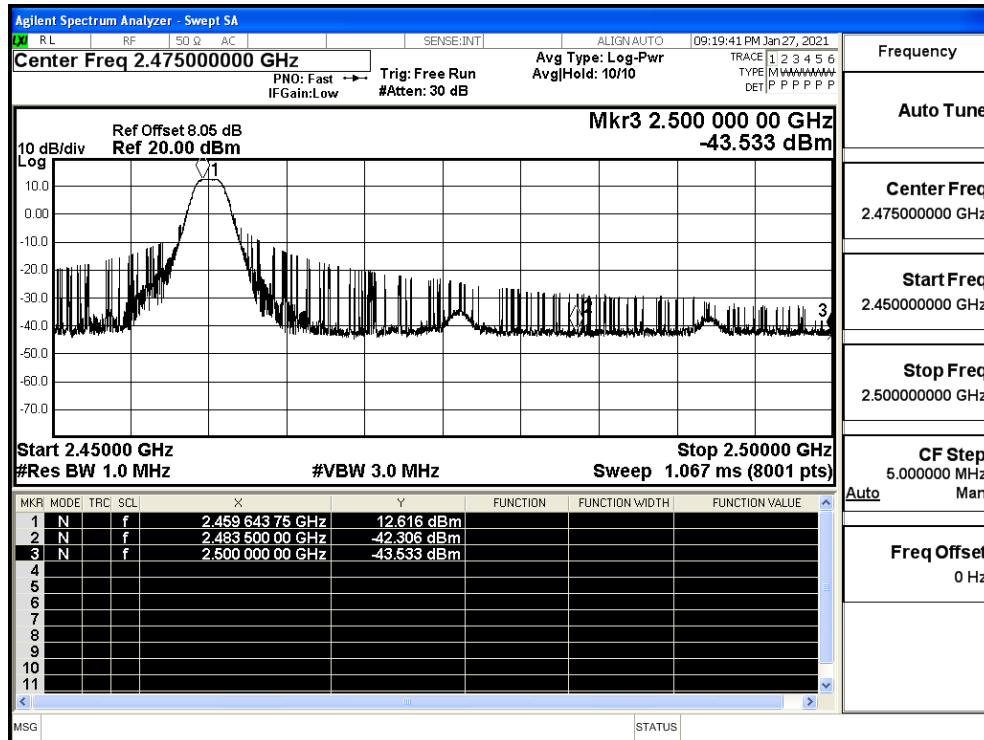
## Restrict-band band-edge measurements\_Hopping Off\_GFSK\_PEAK (Low Channel)



## 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)

