

## Appendix C

### RF Test Data for 2.4G WIFI (Conducted Measurement)

**Product Name: GRILLEYE MAX INSTANT & ULTRA PRECISE SMART GRILLING & SMOKING CLOUD THERMOMETER**

**Trade Mark: GRILLEYE**

**Test Model: GE0006**

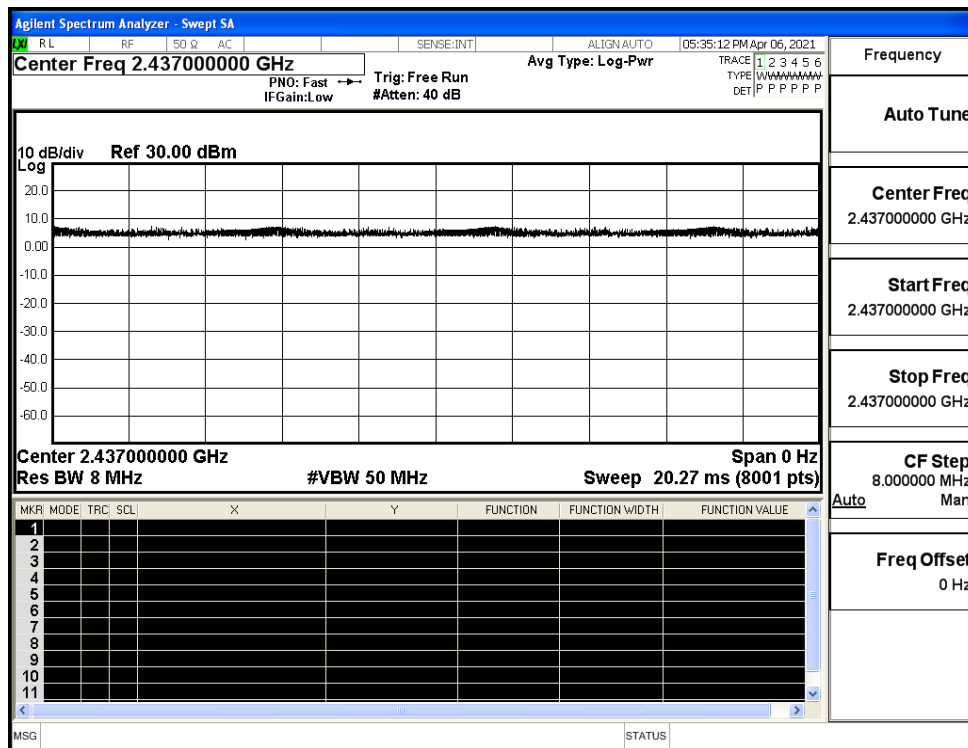
#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 24.9 ° C  |
| Relative Humidity: | 54.6%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Kay Hu    |
| Supervised by:     | Li Huan   |

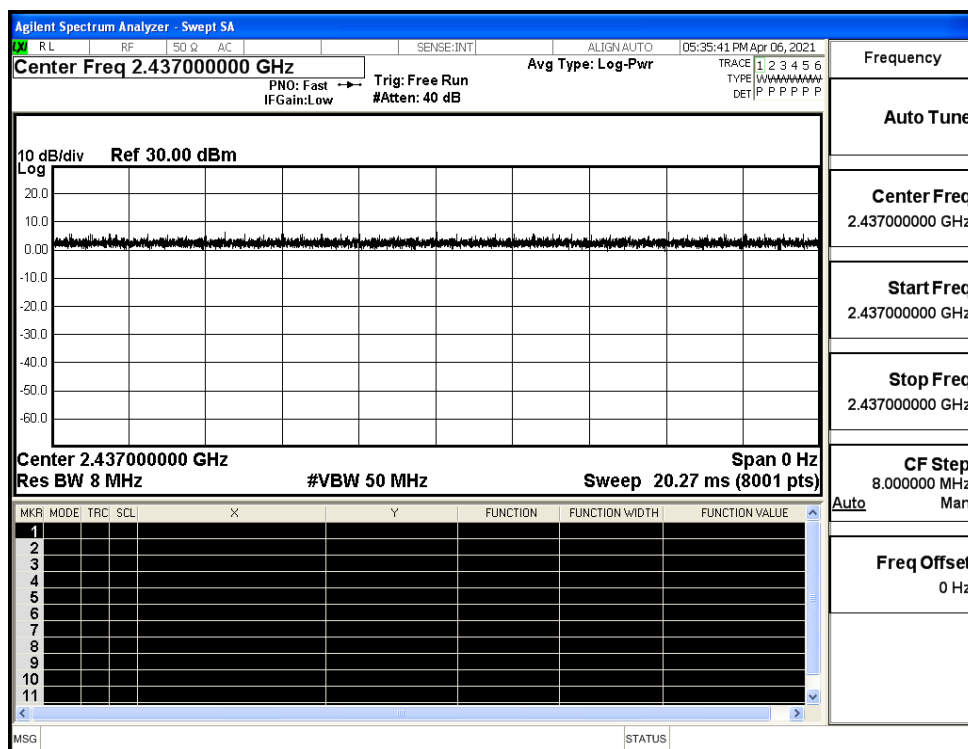
#### C.1 Duty Cycle

| Test Mode | Test Channel | Ant  | Duty Cycle[%] | Verdict |
|-----------|--------------|------|---------------|---------|
| 11B       | 2437         | Ant1 | 100           | PASS    |
| 11G       | 2437         | Ant1 | 100           | PASS    |
| 11N20SISO | 2437         | Ant1 | 100           | PASS    |
| 11N40SISO | 2437         | Ant1 | 100           | PASS    |

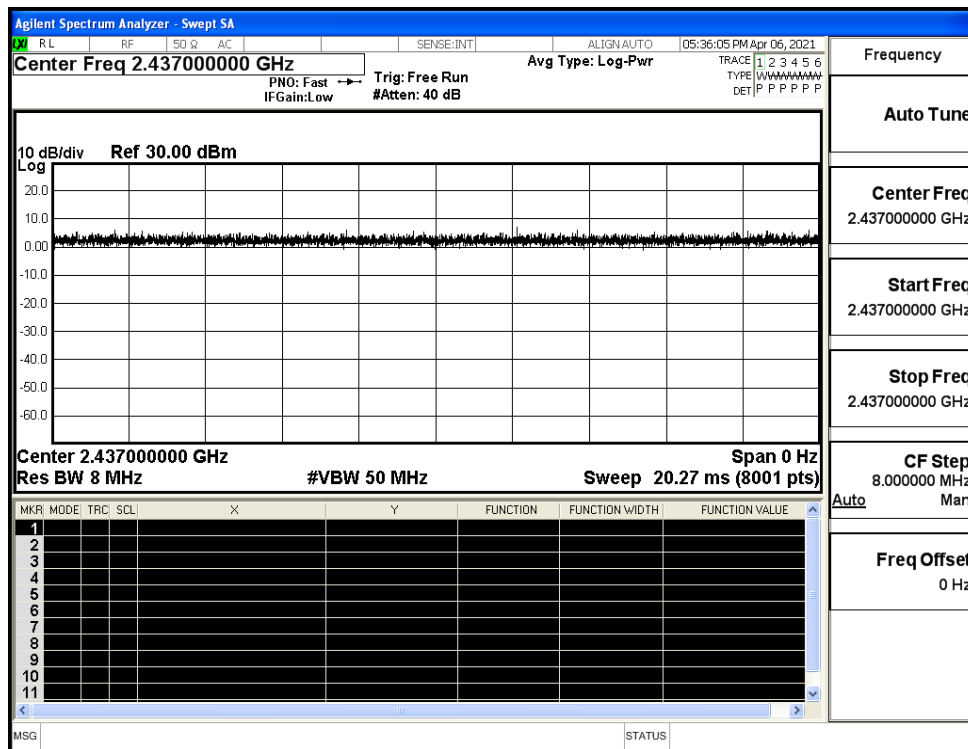
## Duty Cycle\_11B\_2437\_Ant1



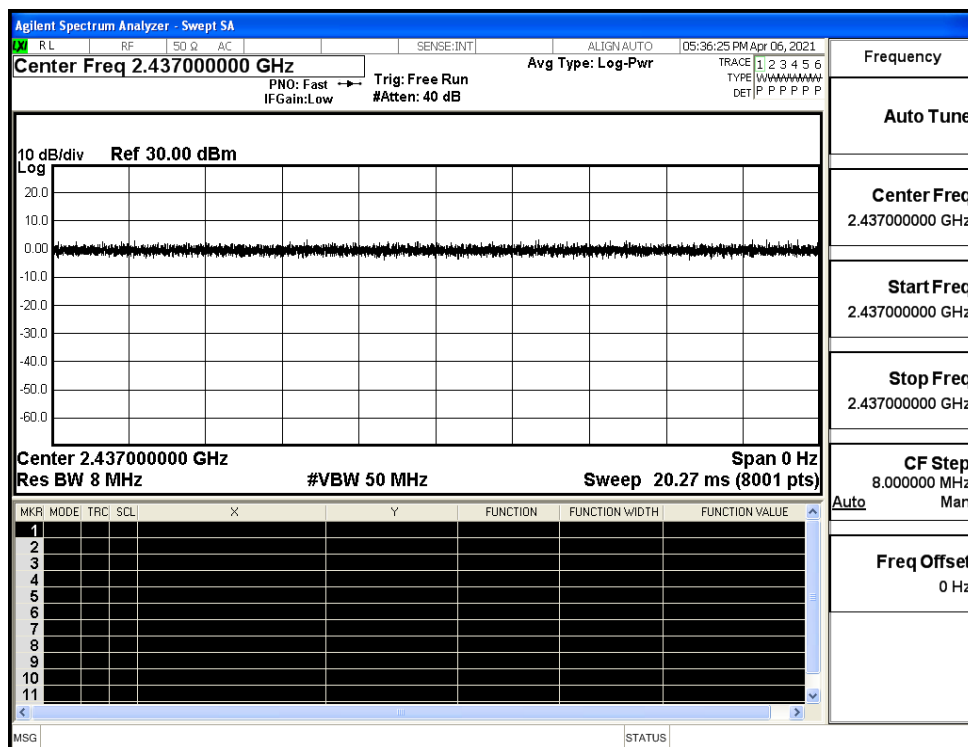
## Duty Cycle\_11G\_2437\_Ant1



## Duty Cycle\_11N20SISO\_2437\_Ant1



## Duty Cycle\_11N40SISO\_2437\_Ant1



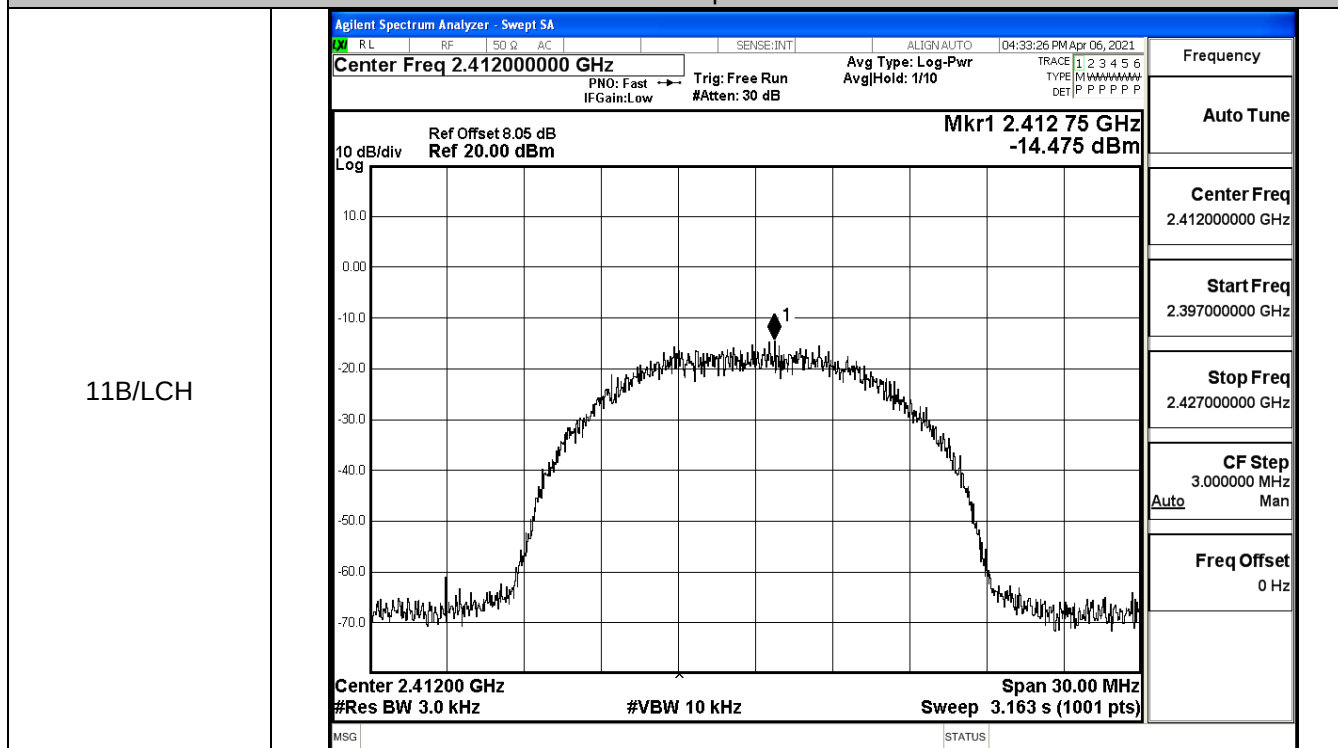
**C.2 Maximum Conducted Output Power**

| Mode      | Channel | Meas.Level [dBm] | Limit [dBm] | Verdict |
|-----------|---------|------------------|-------------|---------|
| 11B       | LCH     | 17.16            | 30          | PASS    |
|           | MCH     | 17.74            | 30          | PASS    |
|           | HCH     | 17.65            | 30          | PASS    |
| 11G       | LCH     | 17.49            | 30          | PASS    |
|           | MCH     | 17.68            | 30          | PASS    |
|           | HCH     | 17.16            | 30          | PASS    |
| 11N20SISO | LCH     | 17.69            | 30          | PASS    |
|           | MCH     | 17.83            | 30          | PASS    |
|           | HCH     | 17.39            | 30          | PASS    |
| 11N40SISO | LCH     | 17.25            | 30          | PASS    |
|           | MCH     | 17.02            | 30          | PASS    |
|           | HCH     | 16.97            | 30          | PASS    |

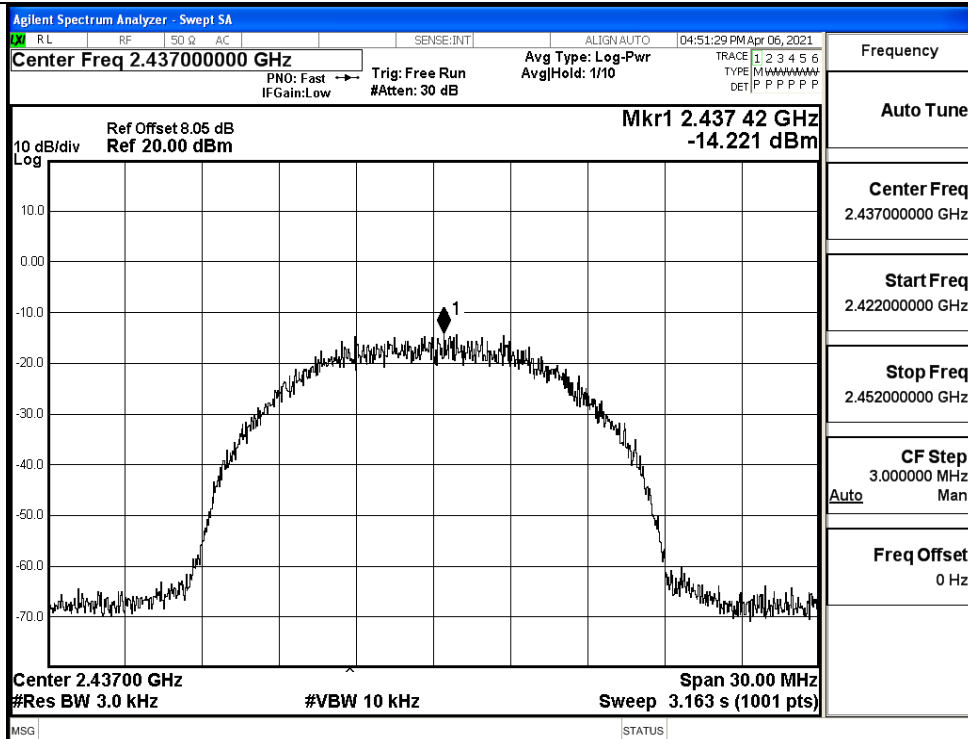
### C.3 Maximum Power Spectral Density

| Mode      | Channel | Meas.Level [dBm/3KHz] | Limit [dBm/3KHz] | Verdict |
|-----------|---------|-----------------------|------------------|---------|
| 11B       | LCH     | -14.475               | 8                | PASS    |
|           | MCH     | -14.221               | 8                | PASS    |
|           | HCH     | -13.773               | 8                | PASS    |
| 11G       | LCH     | -18.720               | 8                | PASS    |
|           | MCH     | -18.843               | 8                | PASS    |
|           | HCH     | -19.200               | 8                | PASS    |
| 11N20SISO | LCH     | -18.362               | 8                | PASS    |
|           | MCH     | -18.432               | 8                | PASS    |
|           | HCH     | -19.254               | 8                | PASS    |
| 11N40SISO | LCH     | -22.088               | 8                | PASS    |
|           | MCH     | -22.131               | 8                | PASS    |
|           | HCH     | -20.757               | 8                | PASS    |

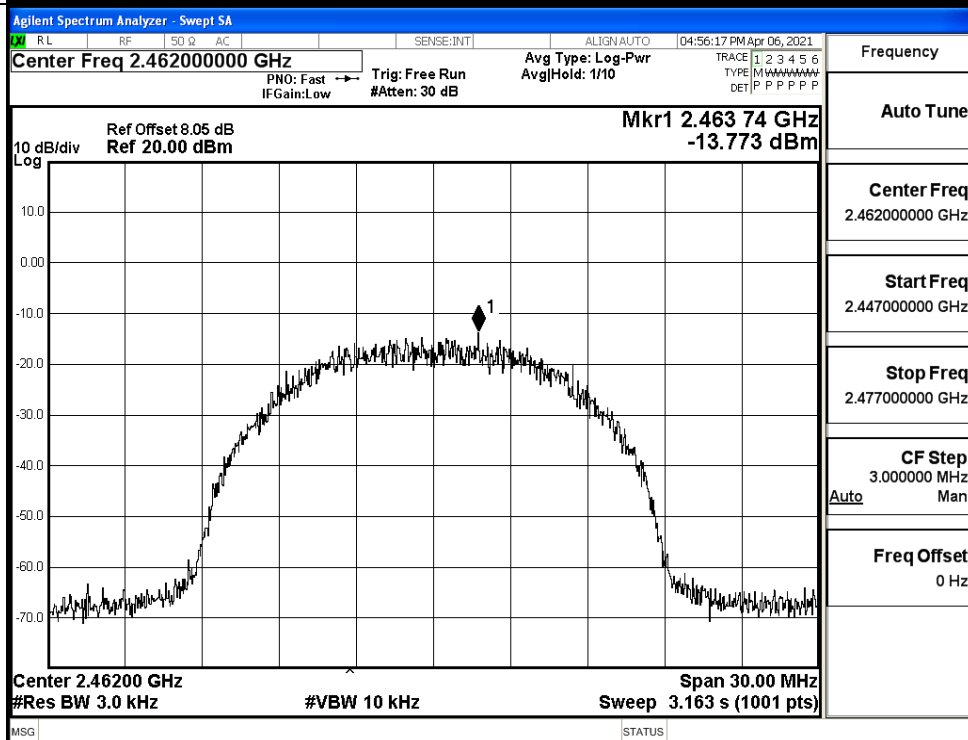
#### Test Graphs



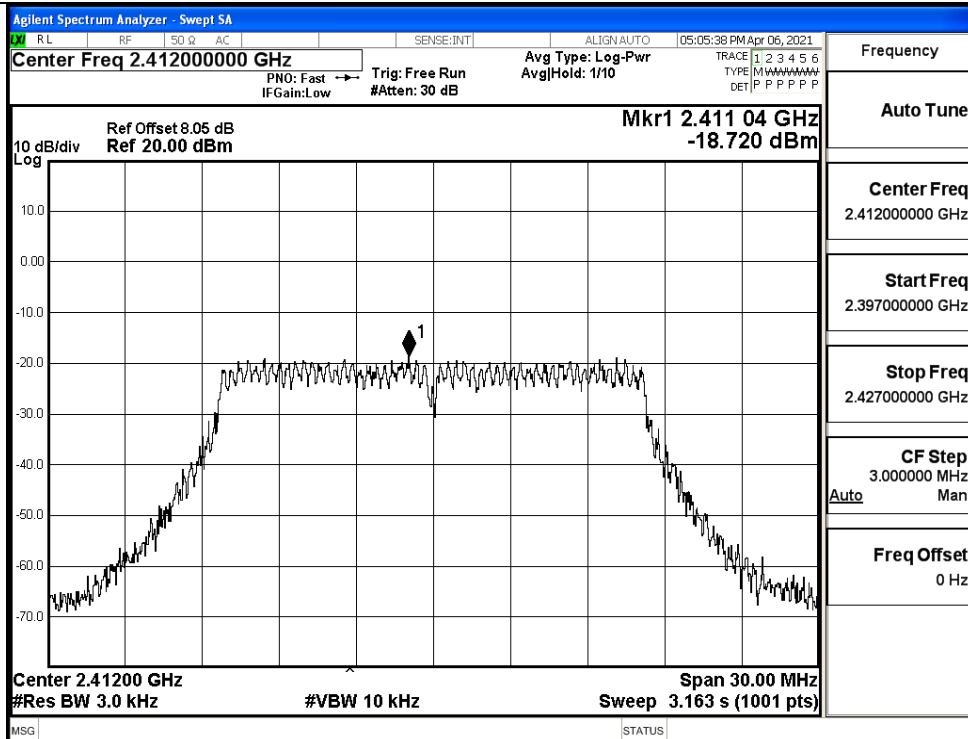
11B/MCH



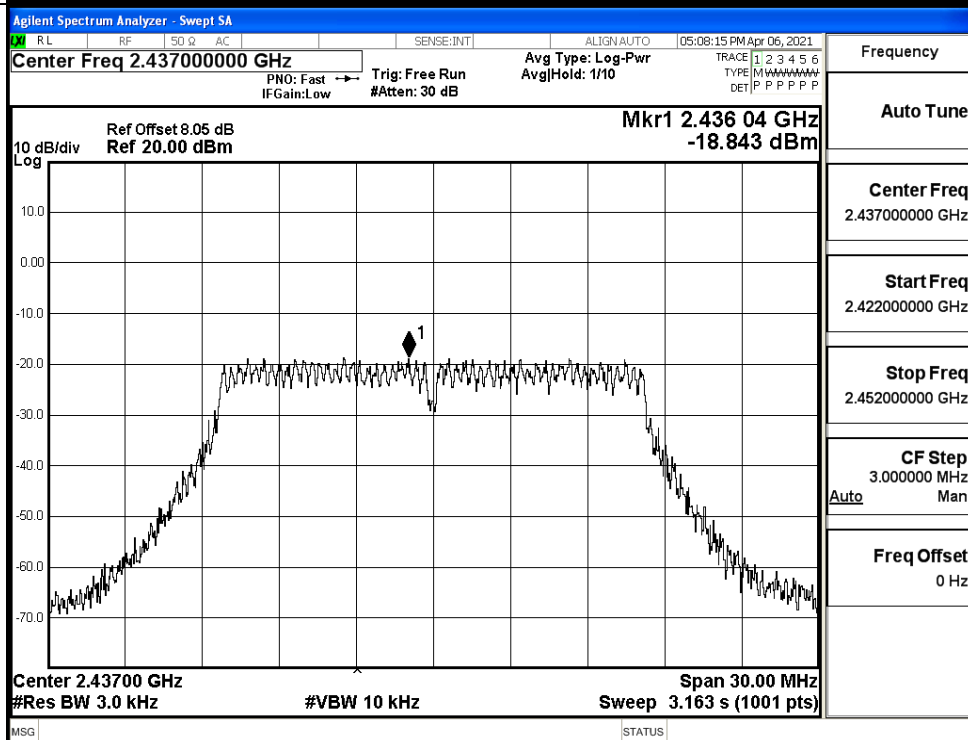
11B/HCH



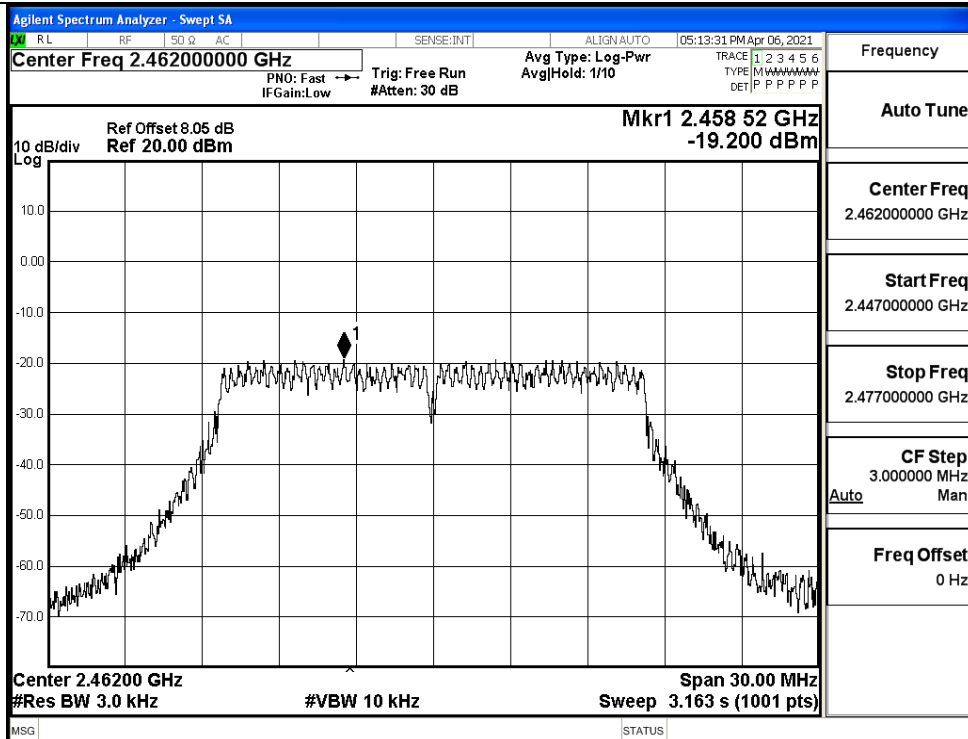
11G/LCH



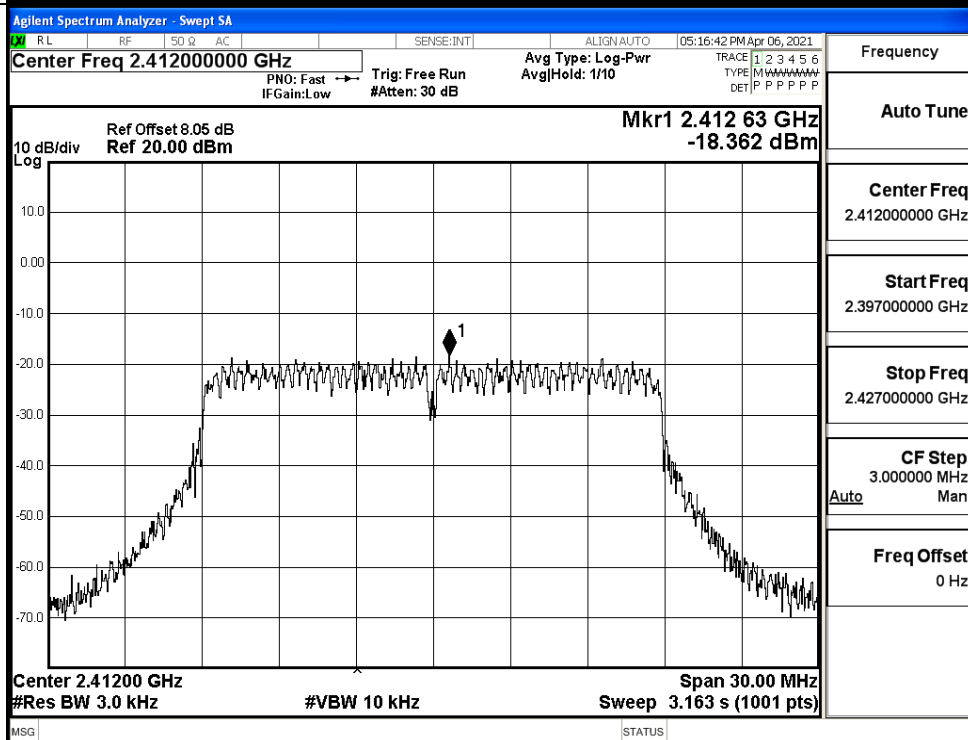
11G/MCH



11G/HCH

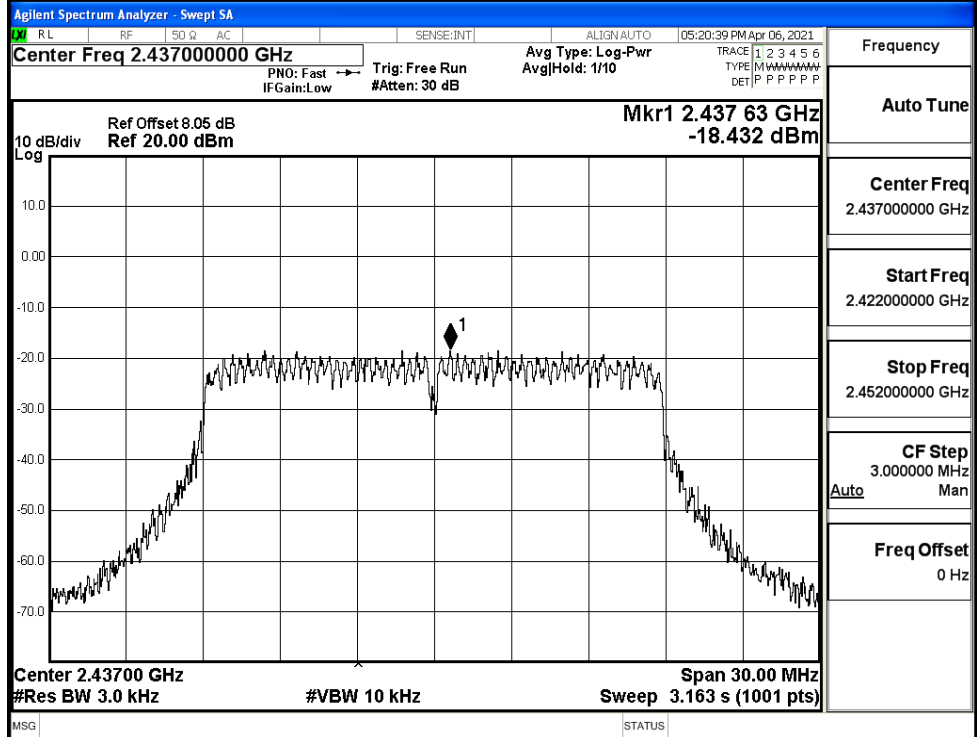


11N20SISO/LCH

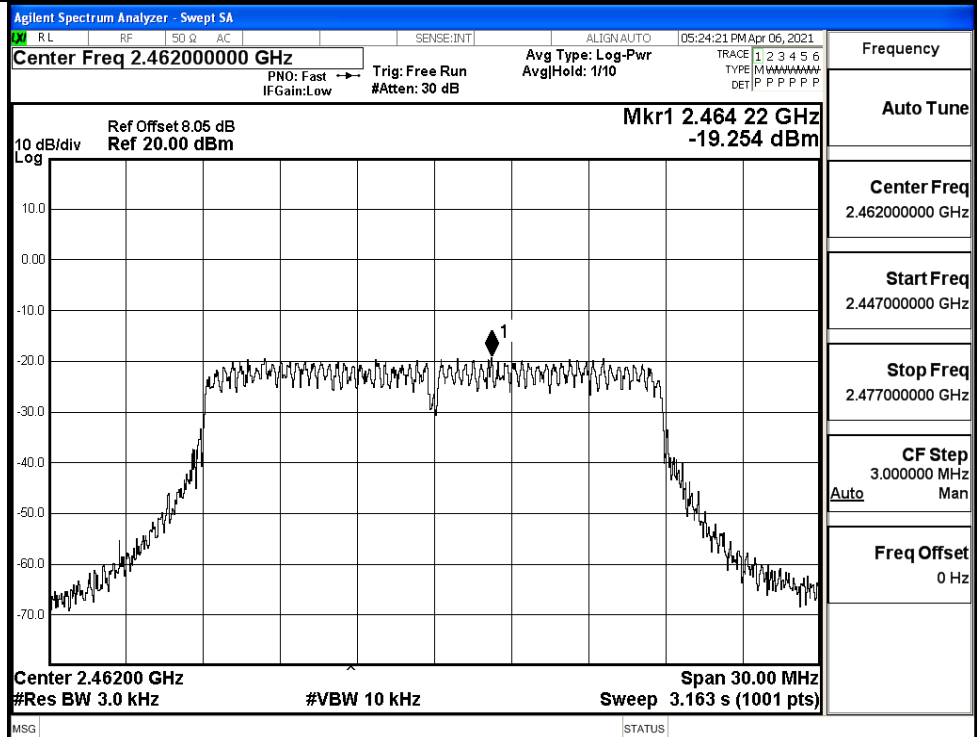




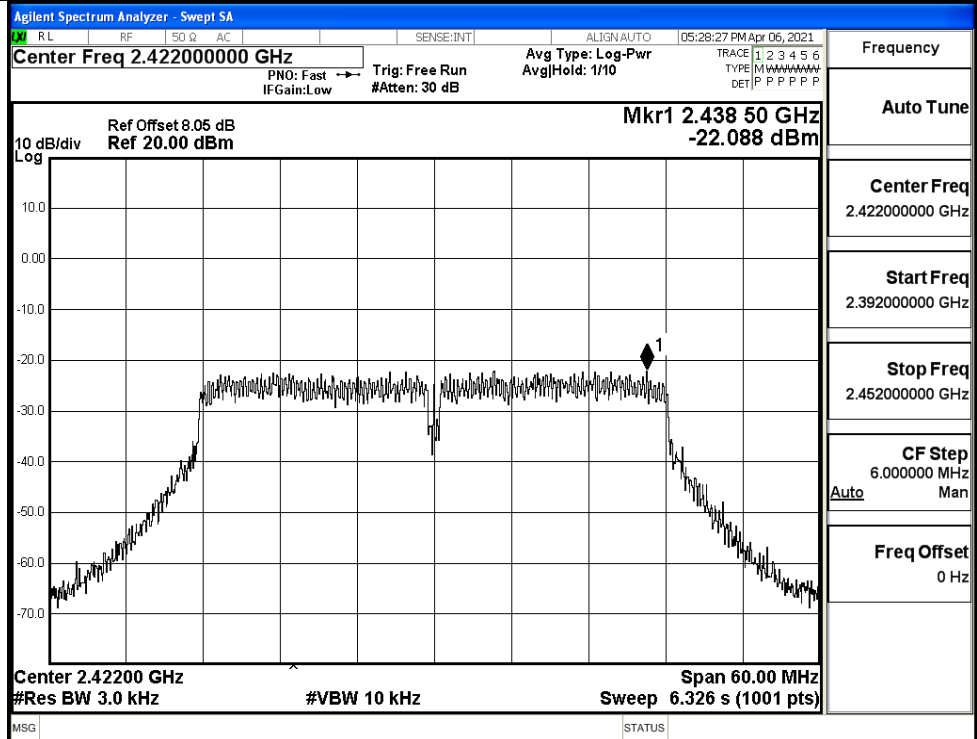
11N20SISO/MCH



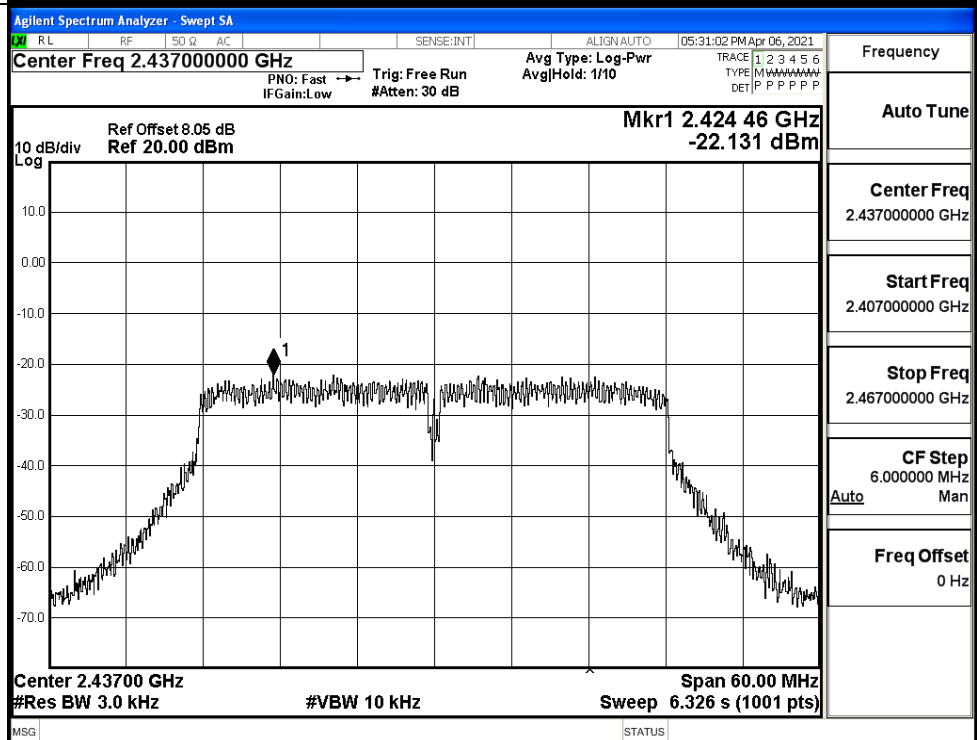
11N20SISO/HCH



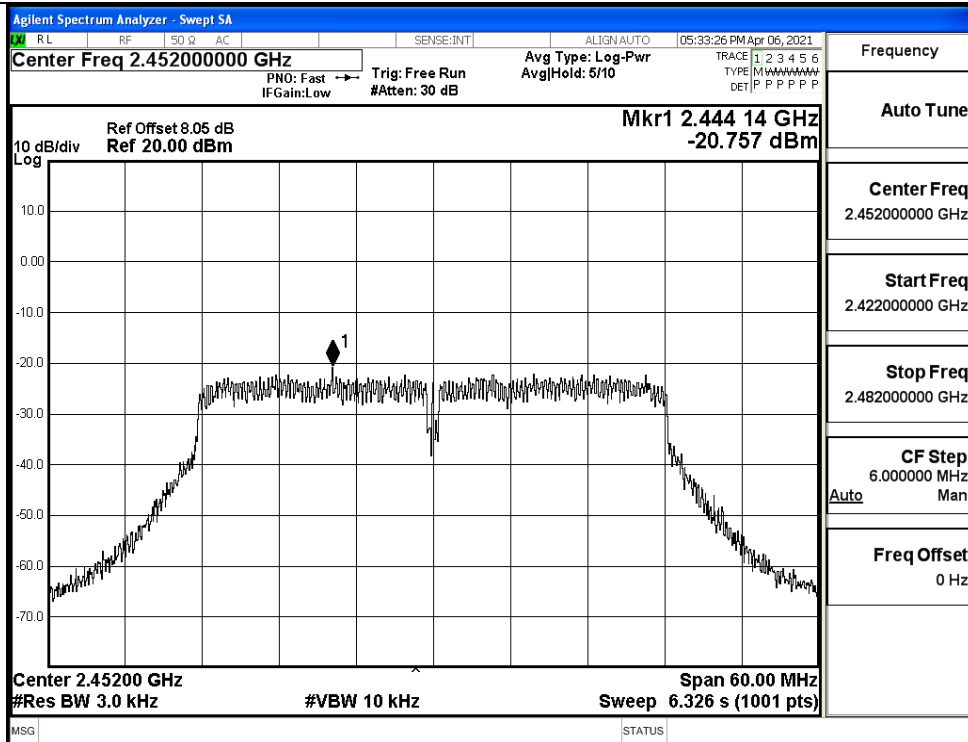
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH

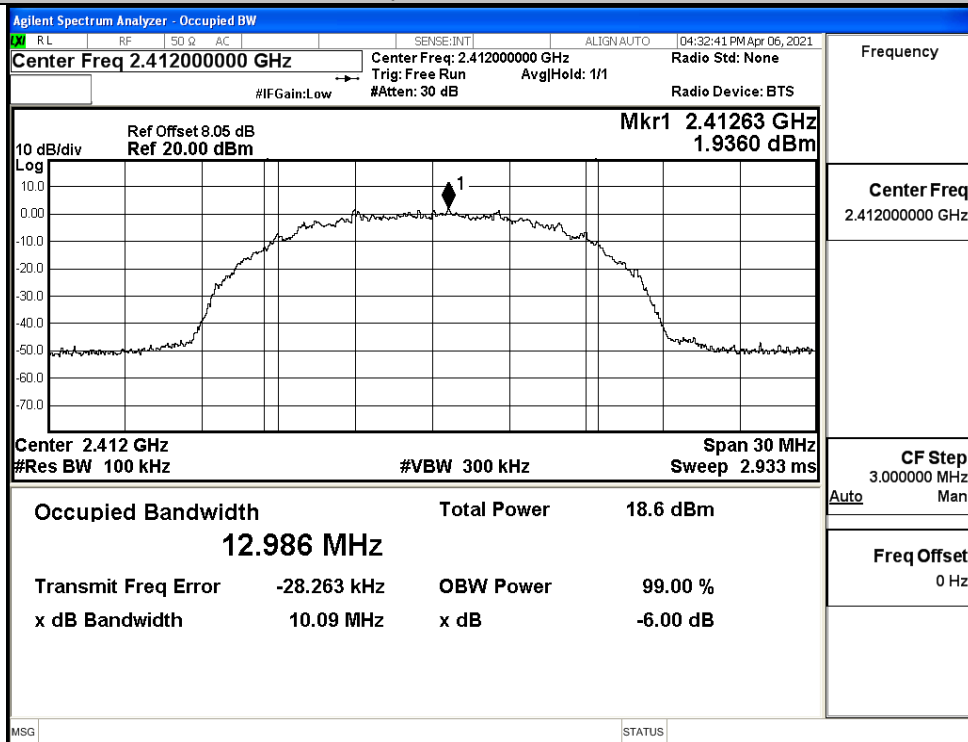


## C.4 6dB Bandwidth

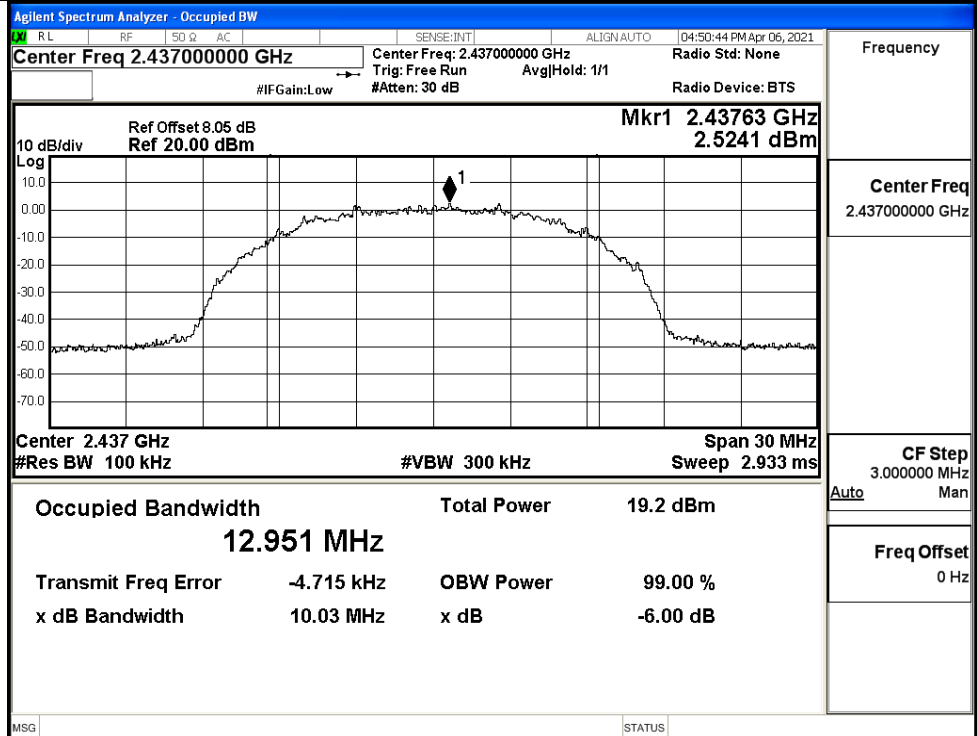
| Mode      | Channel | 6dB Bandwidth [MHz] | Limit [MHz] | Verdict |
|-----------|---------|---------------------|-------------|---------|
| 11B       | LCH     | 10.09               | $\geq 0.5$  | PASS    |
|           | MCH     | 10.03               | $\geq 0.5$  | PASS    |
|           | HCH     | 10.11               | $\geq 0.5$  | PASS    |
| 11G       | LCH     | 16.49               | $\geq 0.5$  | PASS    |
|           | MCH     | 16.48               | $\geq 0.5$  | PASS    |
|           | HCH     | 16.48               | $\geq 0.5$  | PASS    |
| 11N20SISO | LCH     | 17.64               | $\geq 0.5$  | PASS    |
|           | MCH     | 17.61               | $\geq 0.5$  | PASS    |
|           | HCH     | 17.62               | $\geq 0.5$  | PASS    |
| 11N40SISO | LCH     | 36.49               | $\geq 0.5$  | PASS    |
|           | MCH     | 36.48               | $\geq 0.5$  | PASS    |
|           | HCH     | 36.49               | $\geq 0.5$  | PASS    |

## Test Graphs

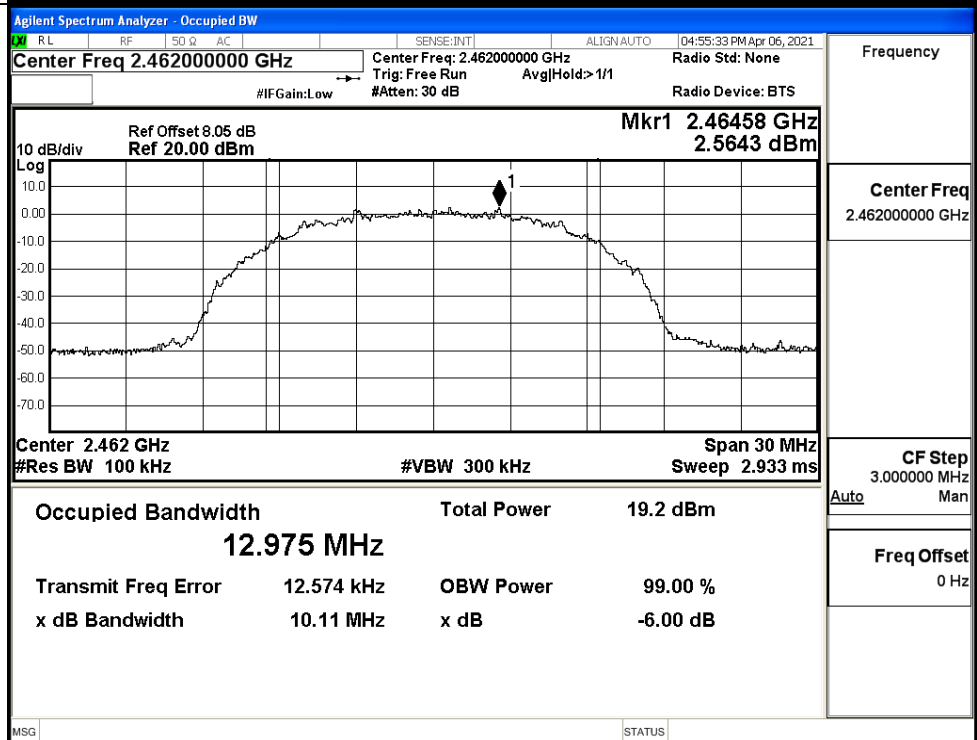
11B/LCH



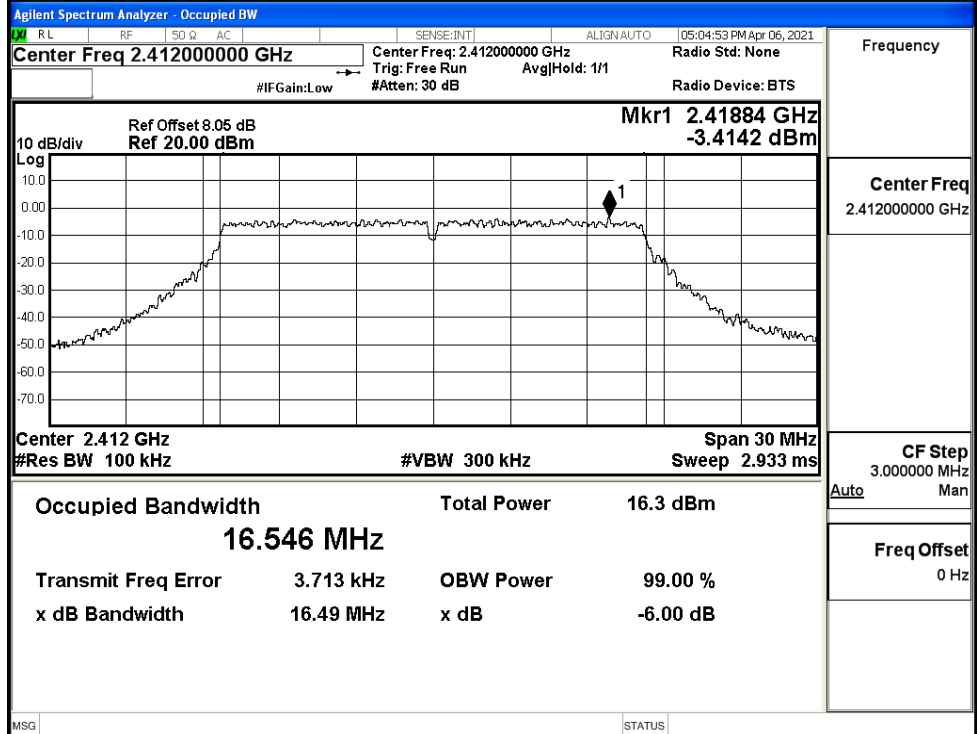
11B/MCH



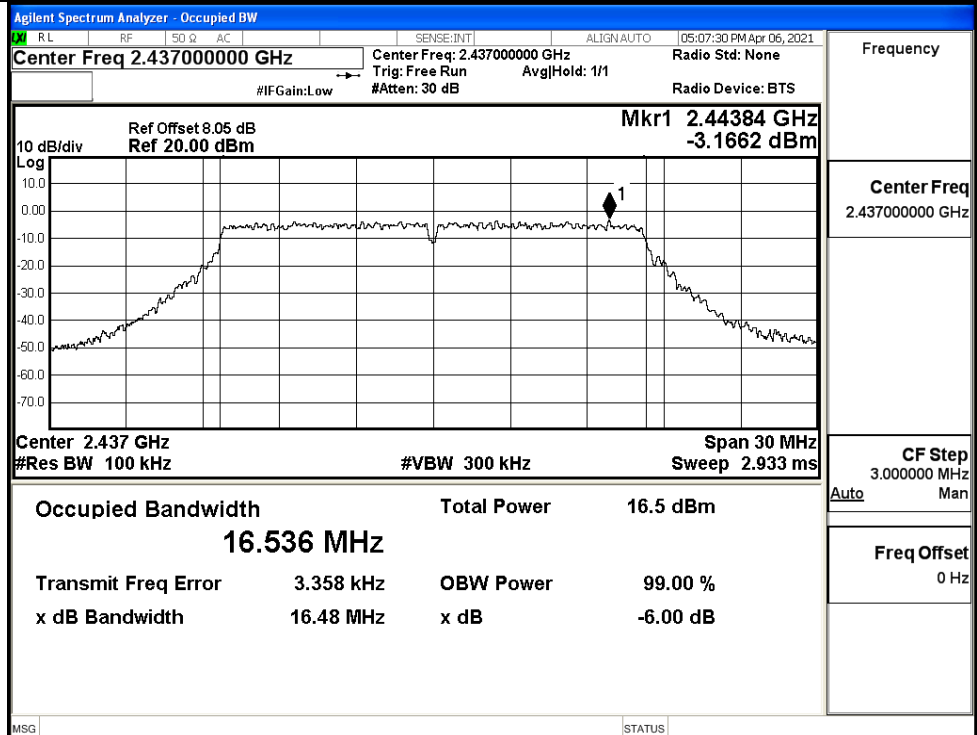
11B/HCH



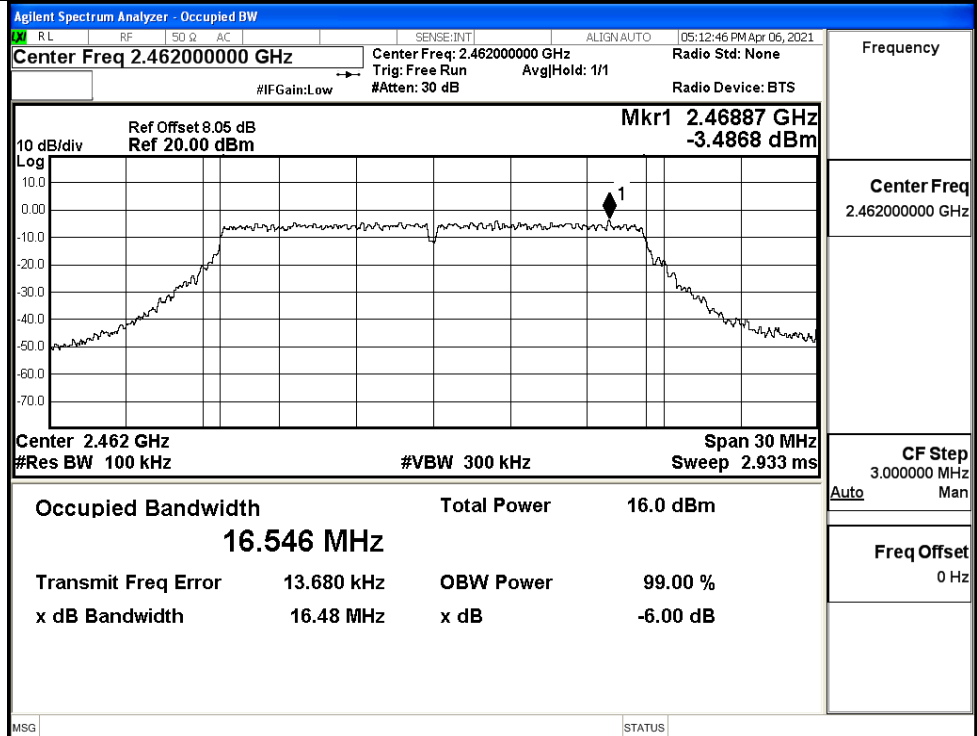
11G/LCH



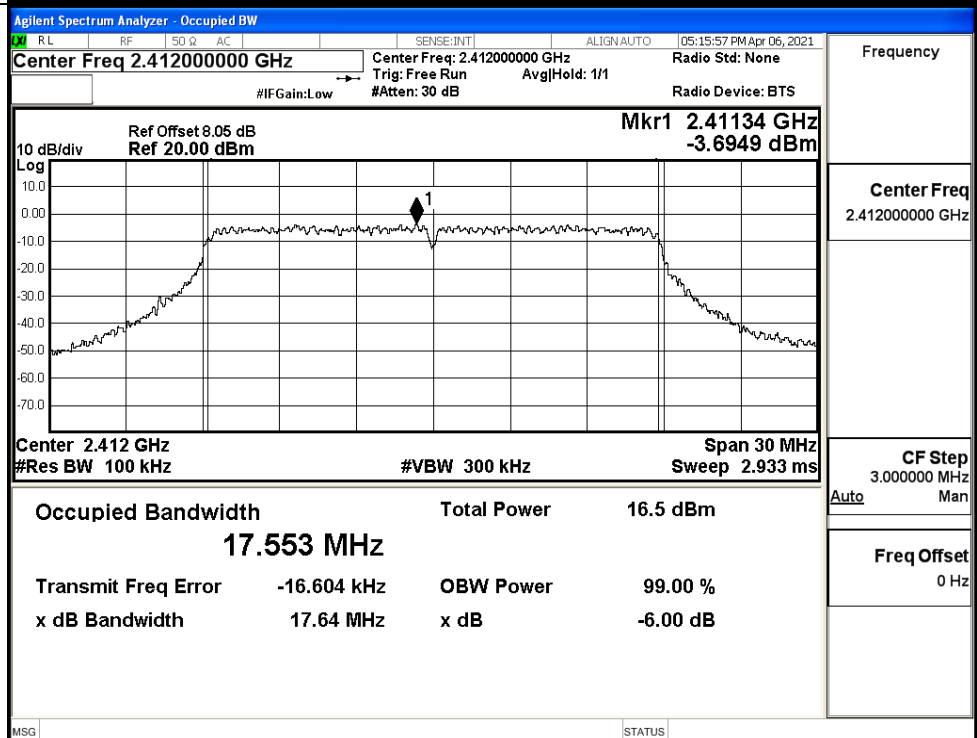
11G/MCH



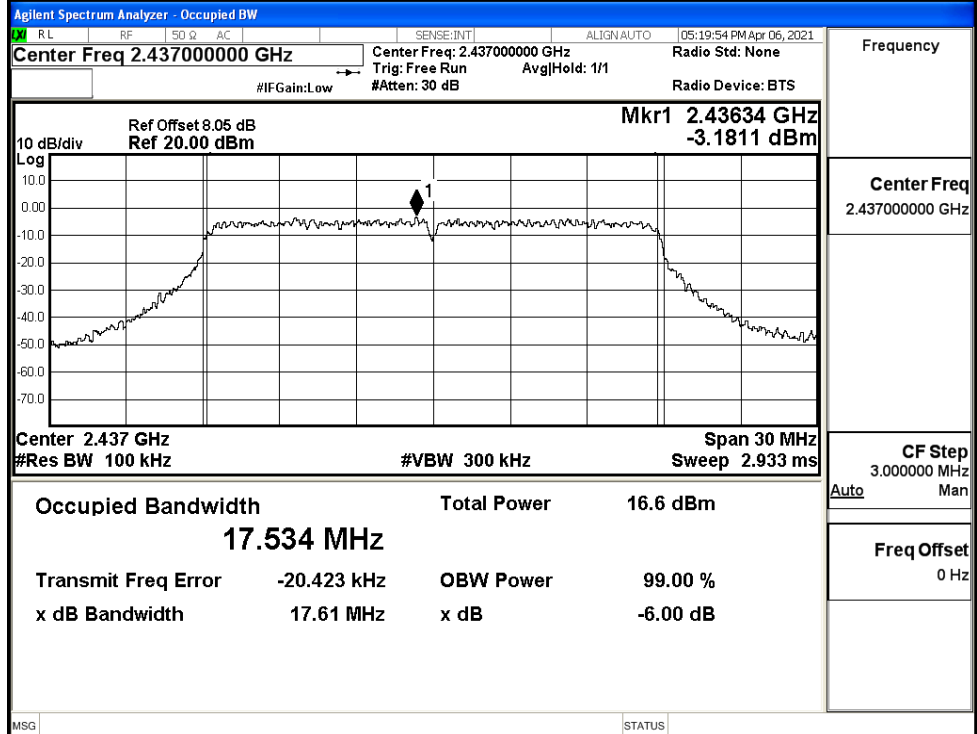
11G/HCH



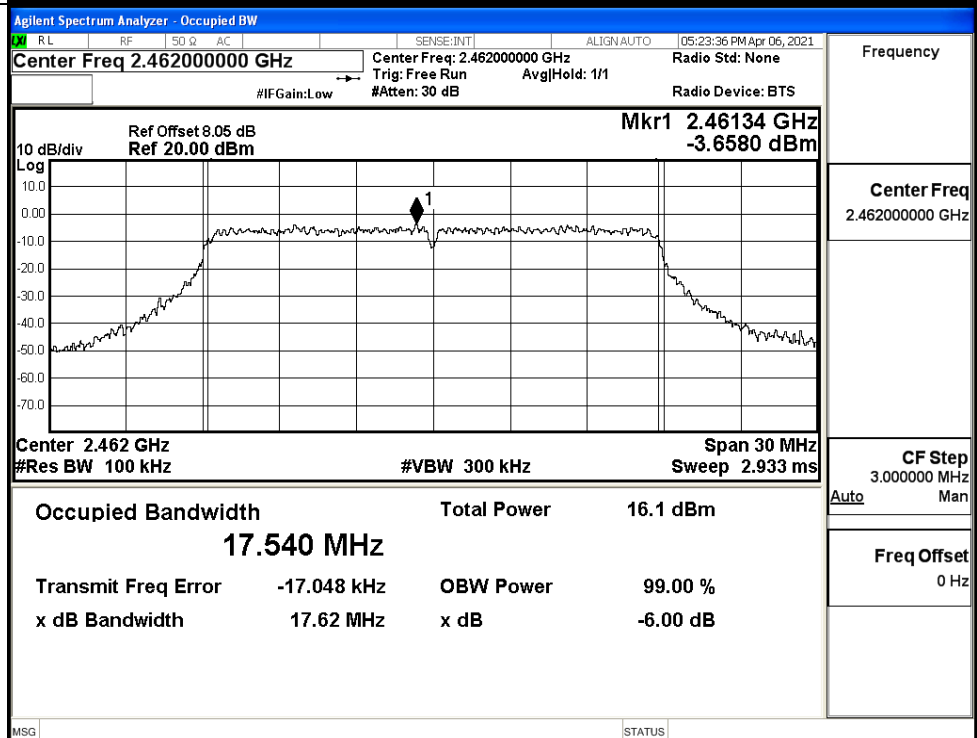
11N20SISO/LCH



11N20SISO/MCH

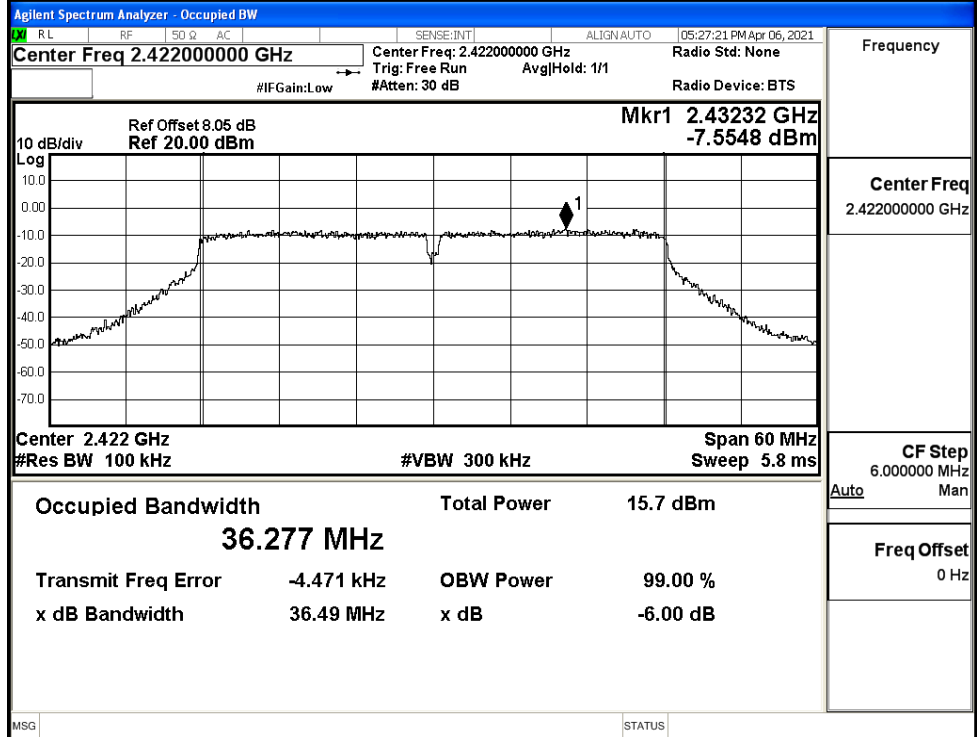


11N20SISO/HCH

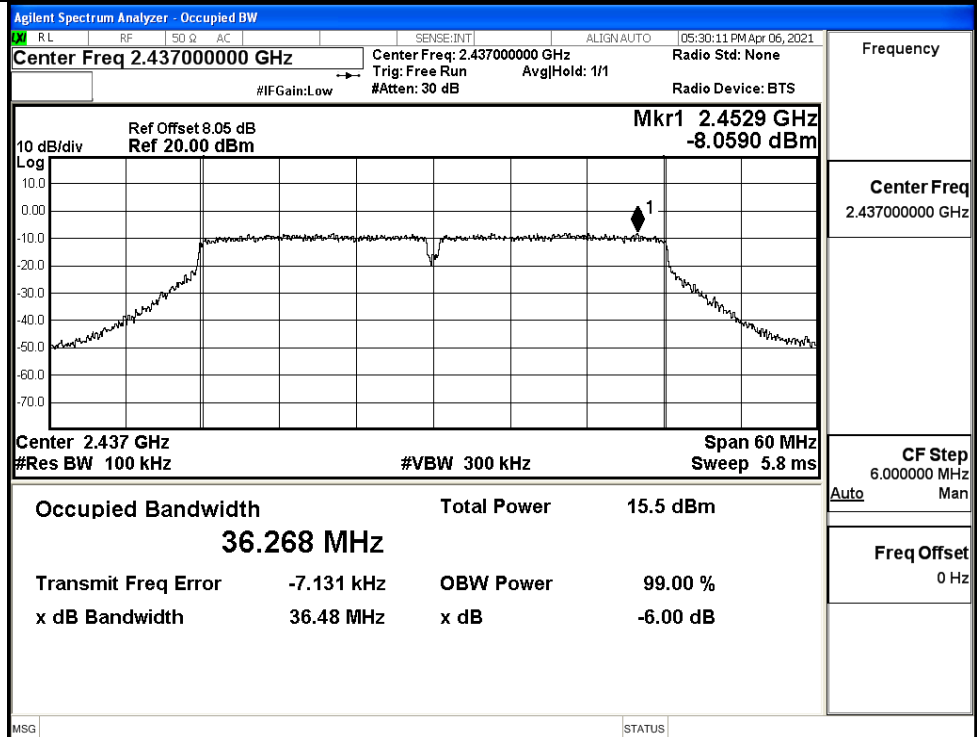




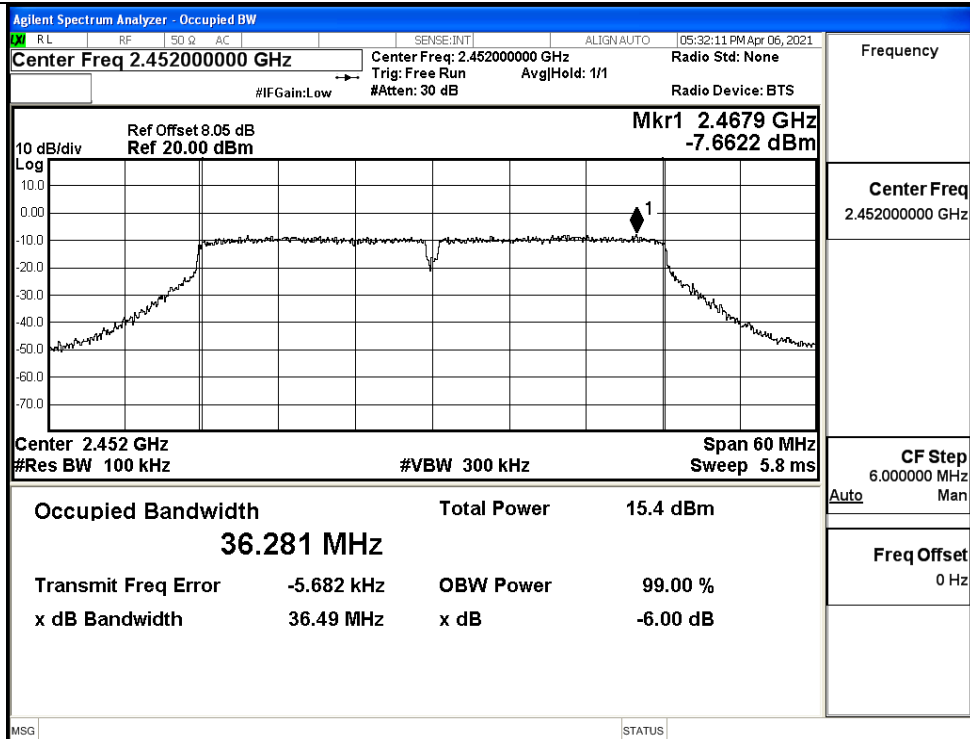
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH

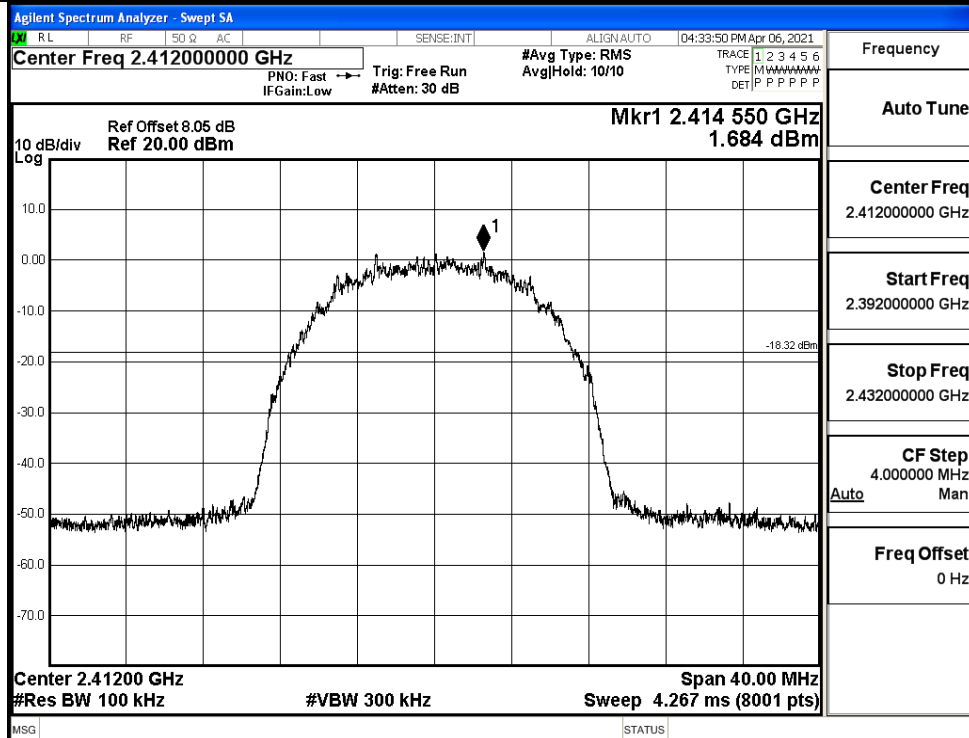


## C.5 RF Conducted Spurious Emissions

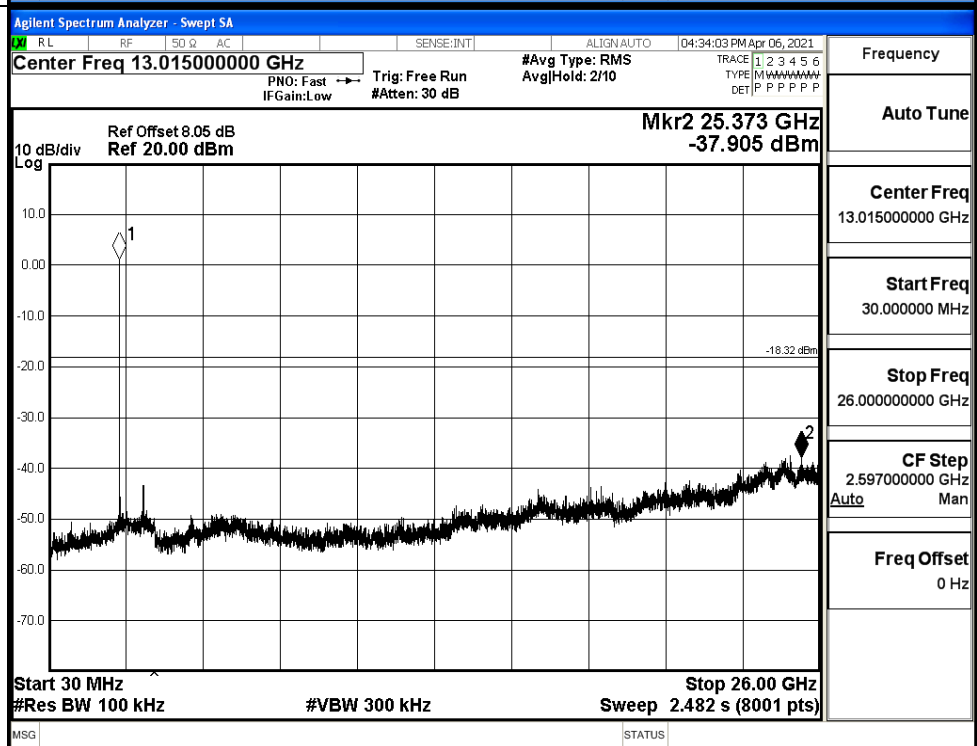
| Mode          | Channel | Pref [dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|---------------|---------|------------|------------------|-------------|---------|
| 11B           | LCH     | 1.684      | -37.905          | -18.316     | PASS    |
|               | MCH     | 2.533      | -36.952          | -17.467     | PASS    |
|               | HCH     | 2.435      | -38.345          | -17.565     | PASS    |
| 11G           | LCH     | -3.442     | -38.249          | -23.442     | PASS    |
|               | MCH     | -3.308     | -37.622          | -23.308     | PASS    |
|               | HCH     | -3.683     | -37.773          | -23.683     | PASS    |
| 11N20<br>SISO | LCH     | -3.739     | -38.393          | -23.739     | PASS    |
|               | MCH     | -3.384     | -37.762          | -23.384     | PASS    |
|               | HCH     | -4.122     | -38.849          | -24.122     | PASS    |
| 11N40<br>SISO | LCH     | -7.679     | -38.177          | -27.679     | PASS    |
|               | MCH     | -7.812     | -37.778          | -27.812     | PASS    |
|               | HCH     | -7.894     | -37.986          | -27.894     | PASS    |

## 11B LCH Graphs

Pref/11B/LCH

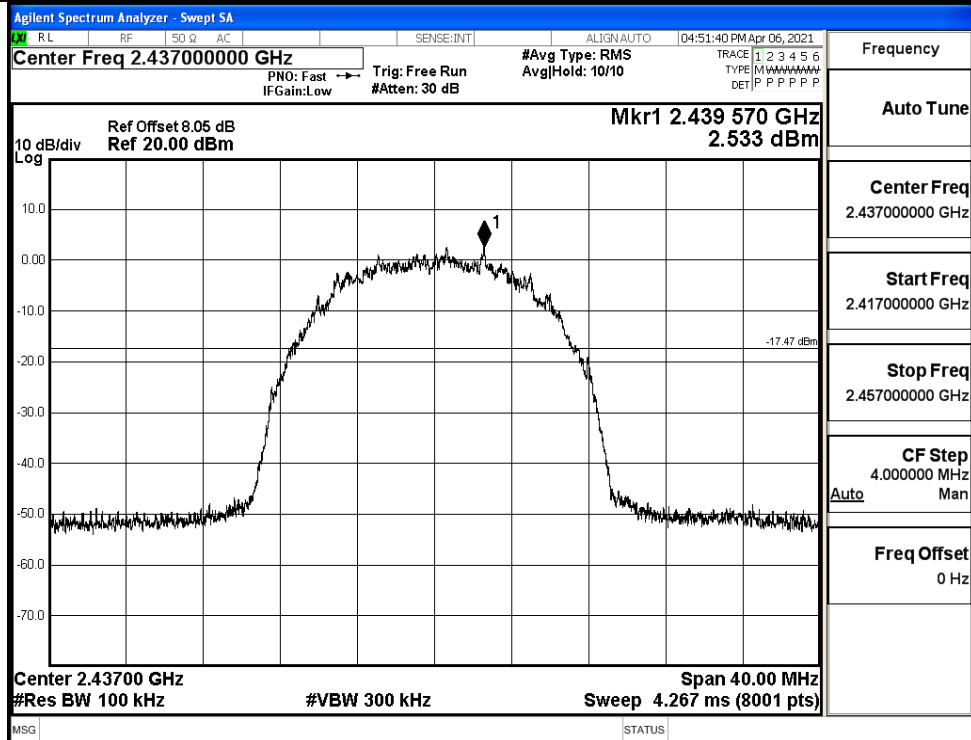


Puw/11B/LCH

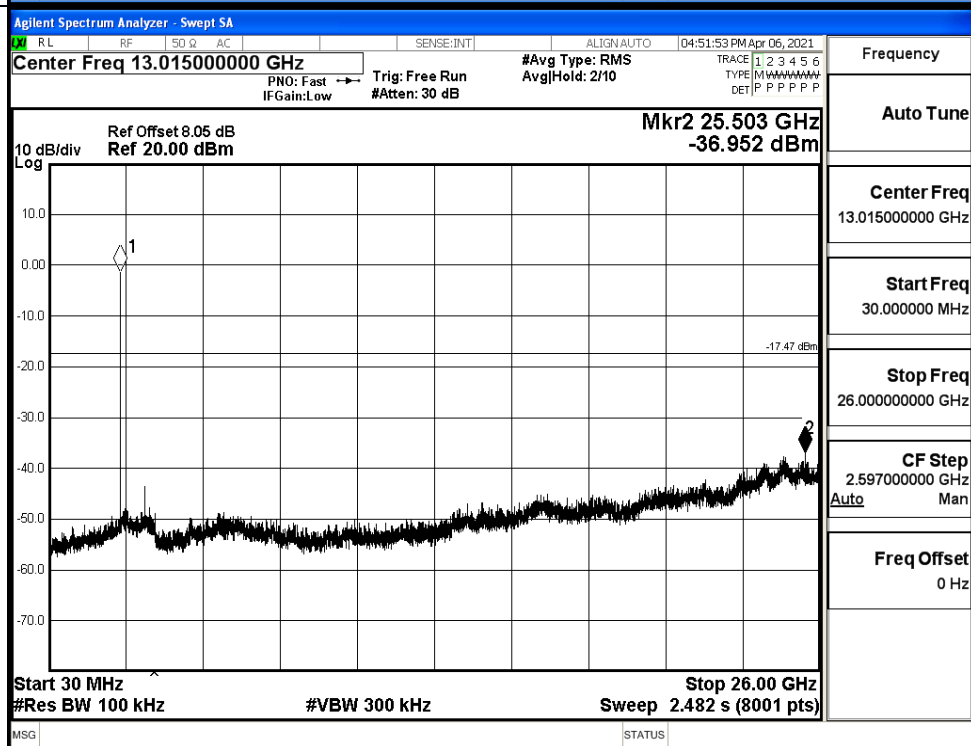


## 11B MCH Graphs

Pref/11B/MCH

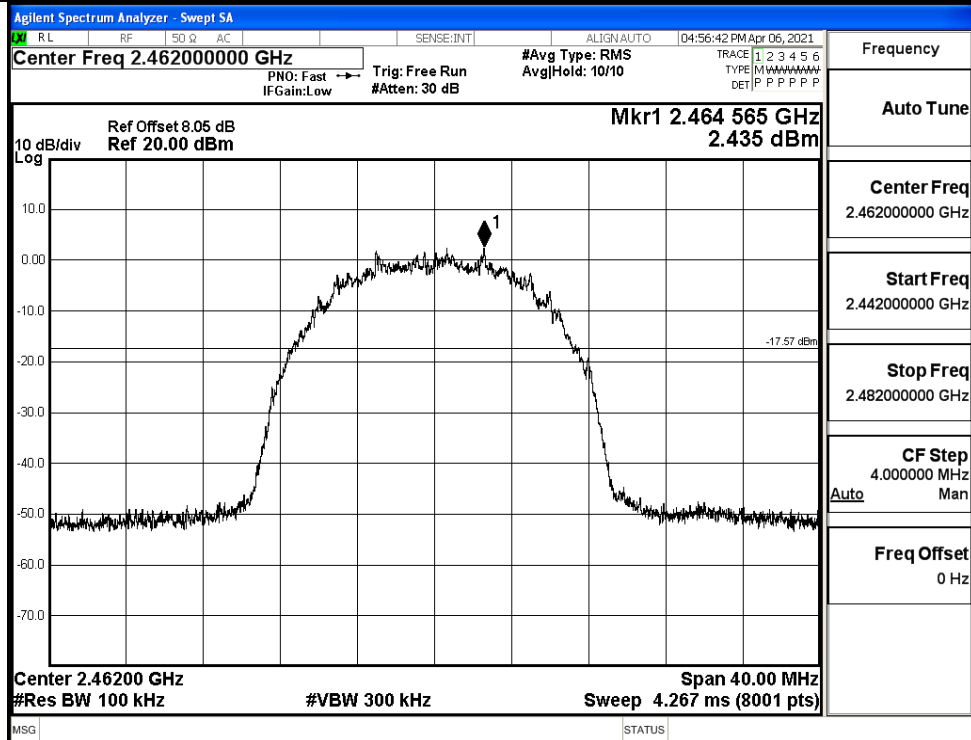


Puw/11B/MCH

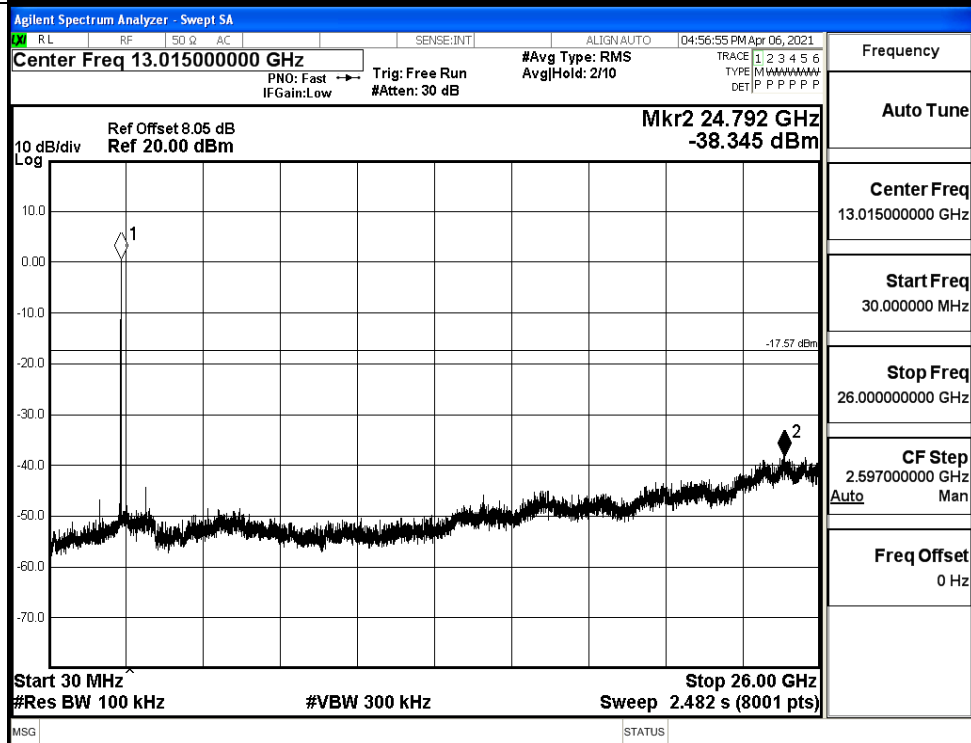


## 11B HCH Graphs

Pref/11B/HCH

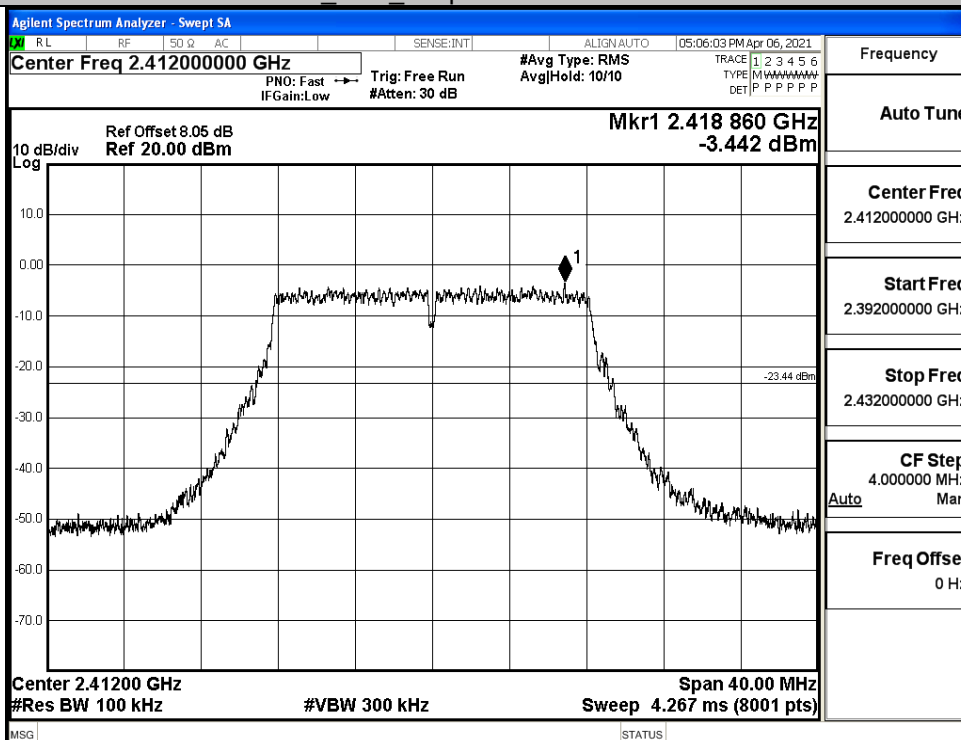


Puw/11B/HCH

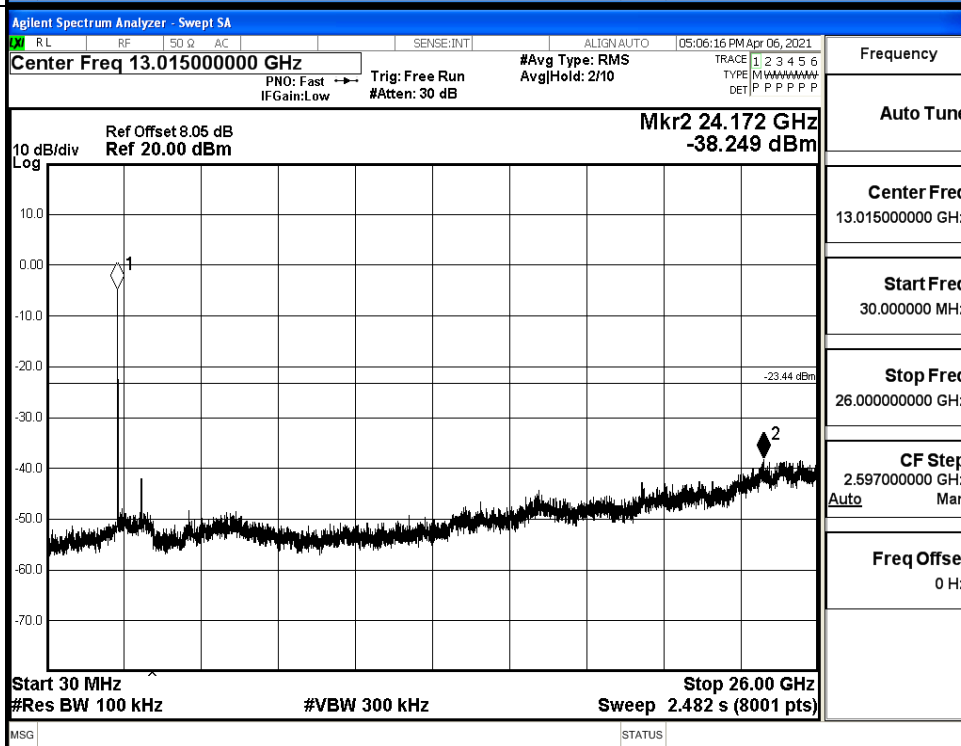


## 11G LCH Graphs

Pref/11G/LCH

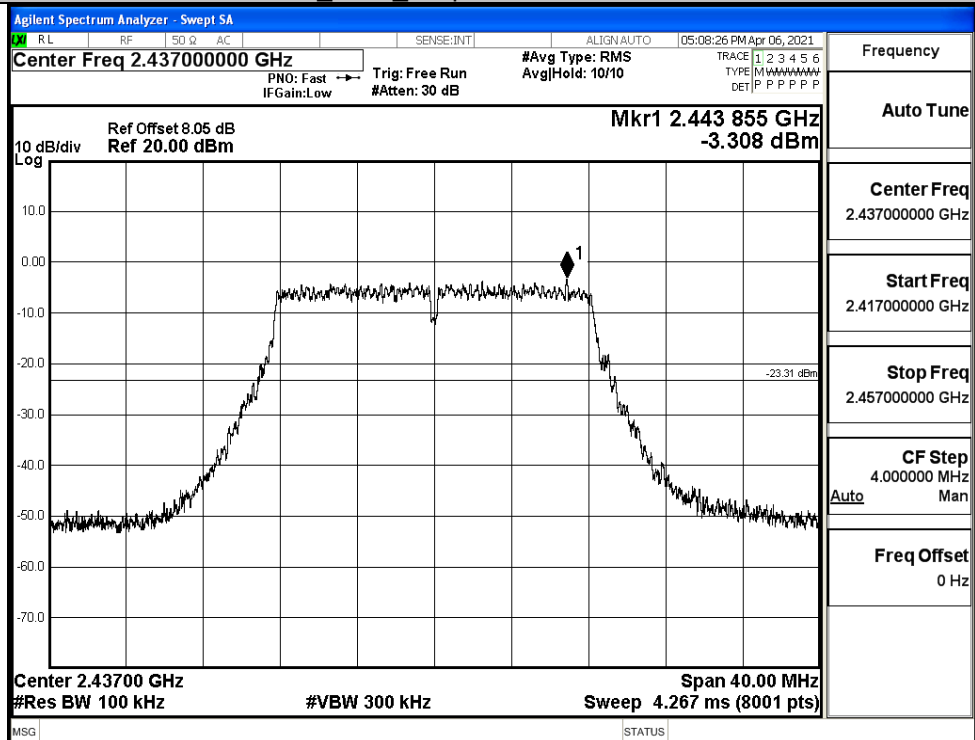


Puw/11G/LCH

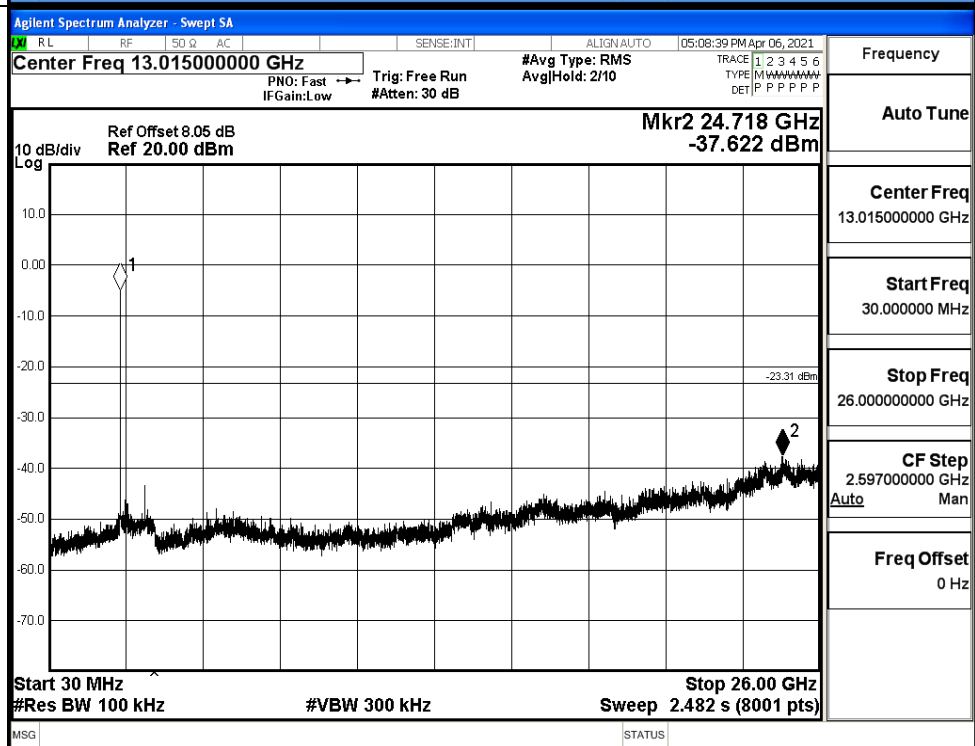


## 11G MCH Graphs

Pref/11G/MCH



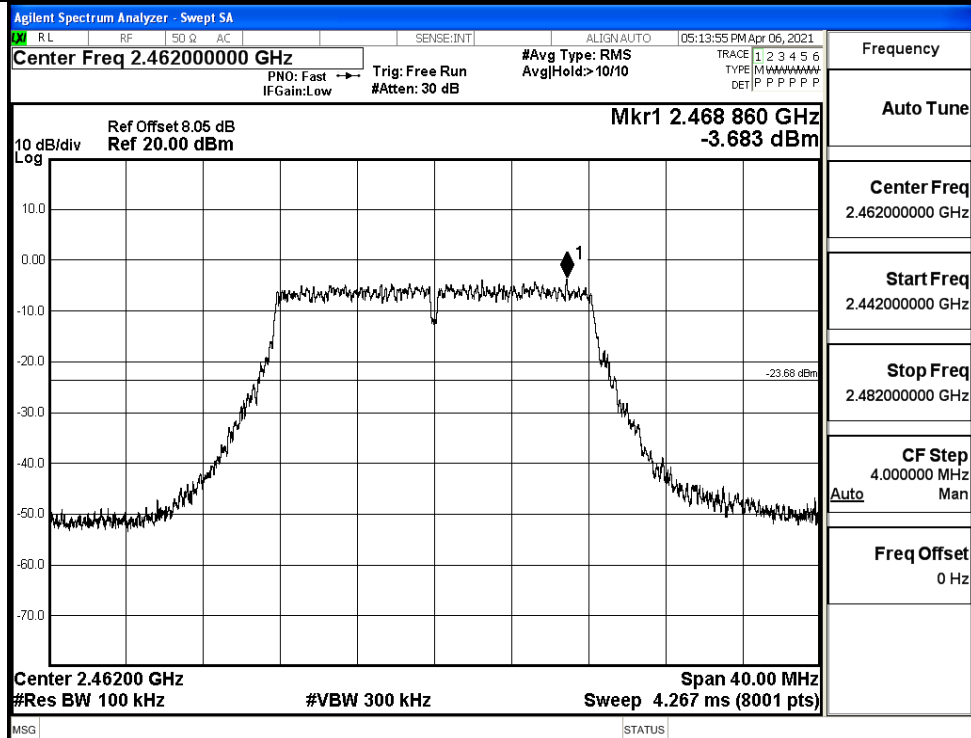
Puw/11G/MCH



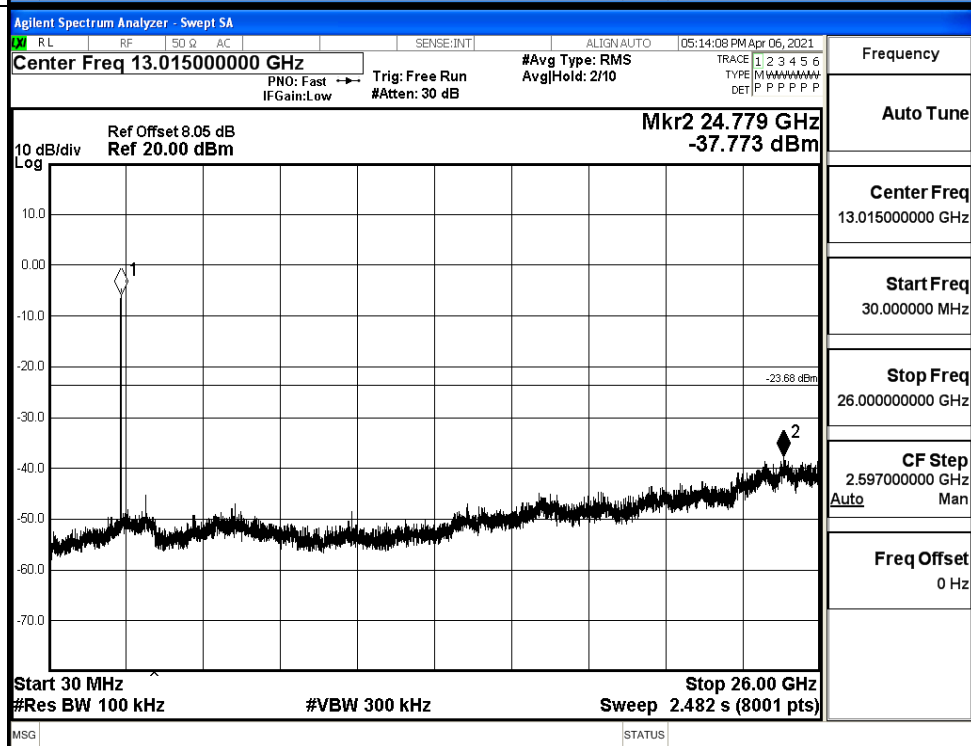


## 11G HCH Graphs

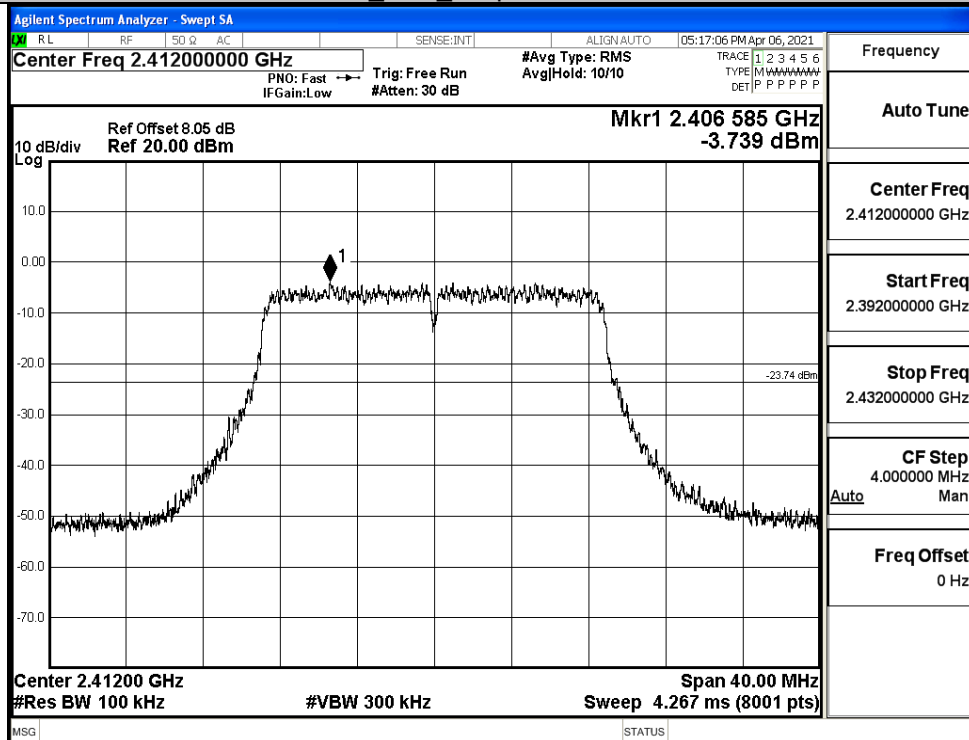
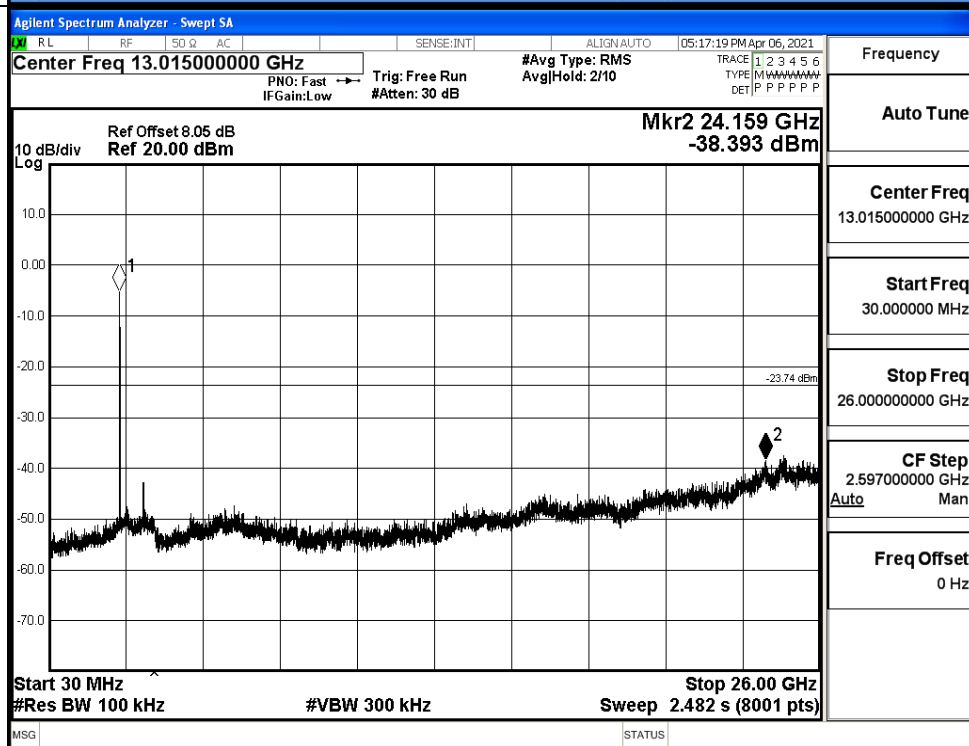
Pref/11G/HCH



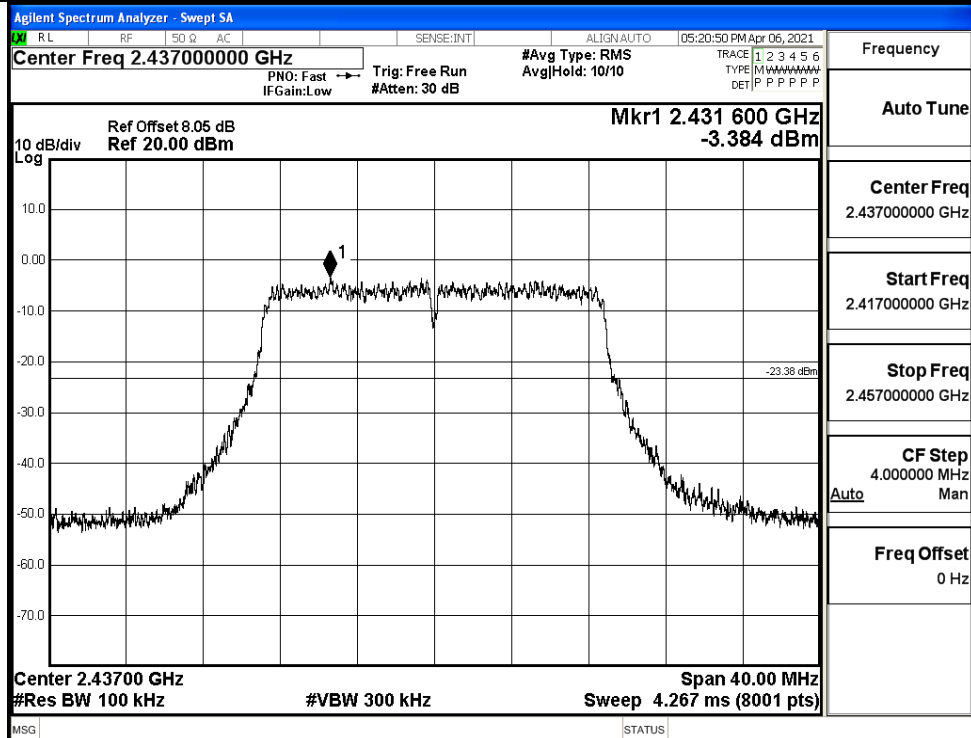
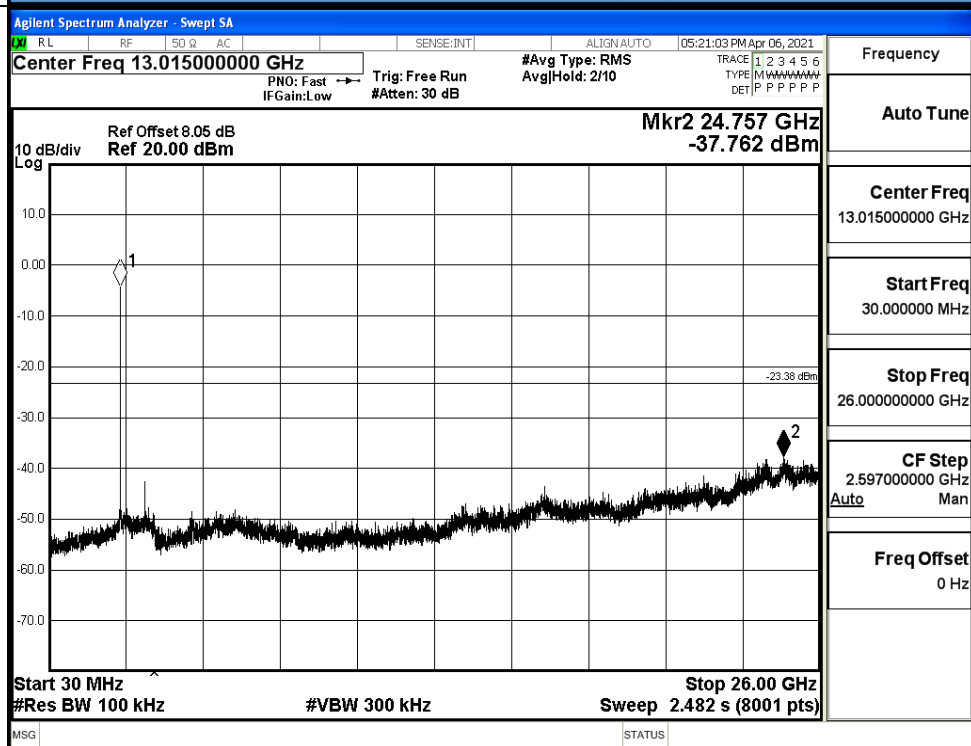
Puw/11G/HCH



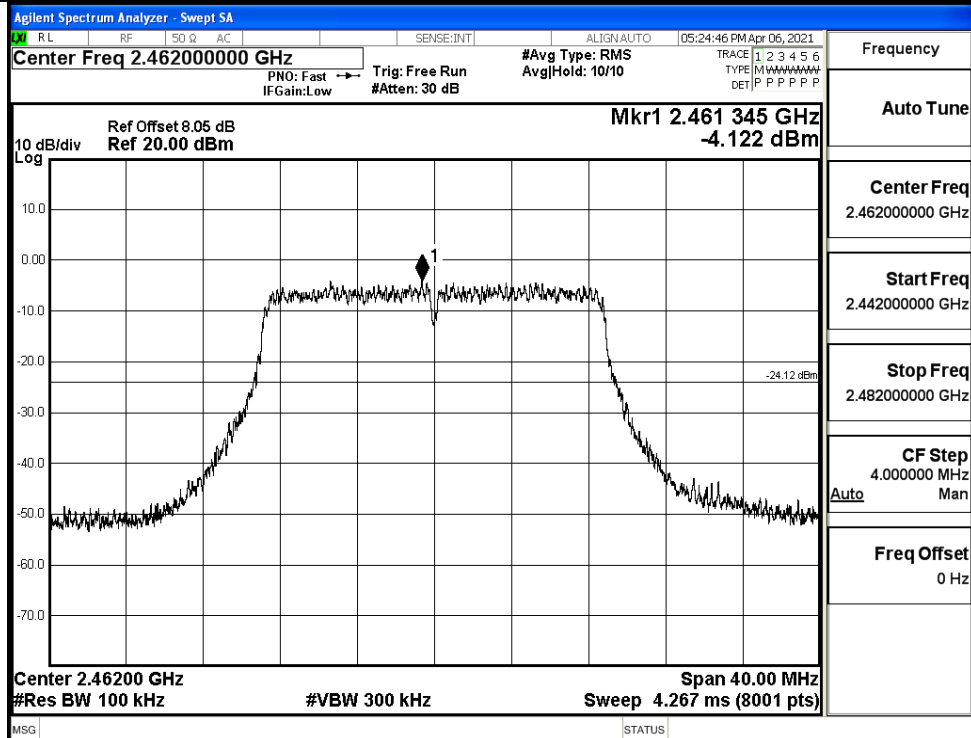
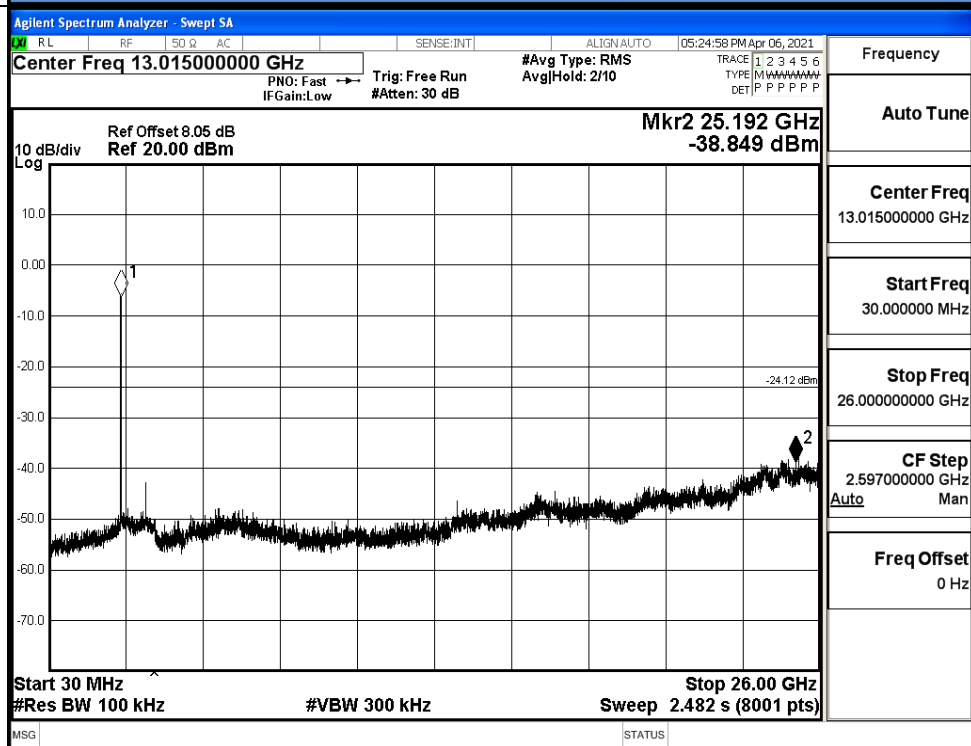
## 11N20SISO LCH Graphs

Pref/11N20SIS  
O/LCHPuw/11N20  
SISO/LCH

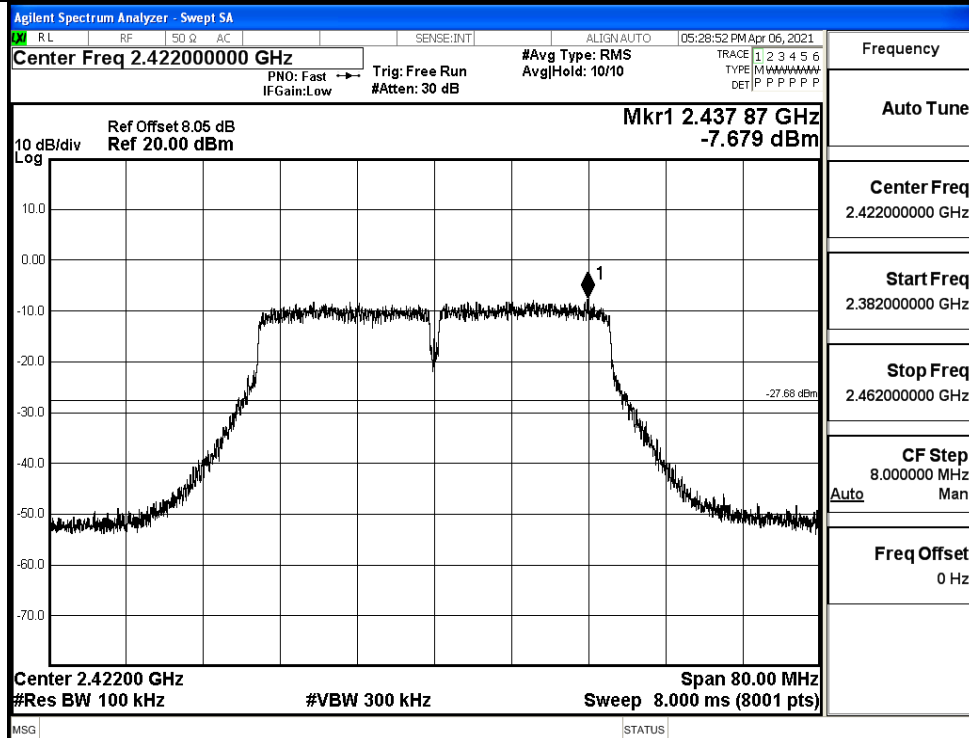
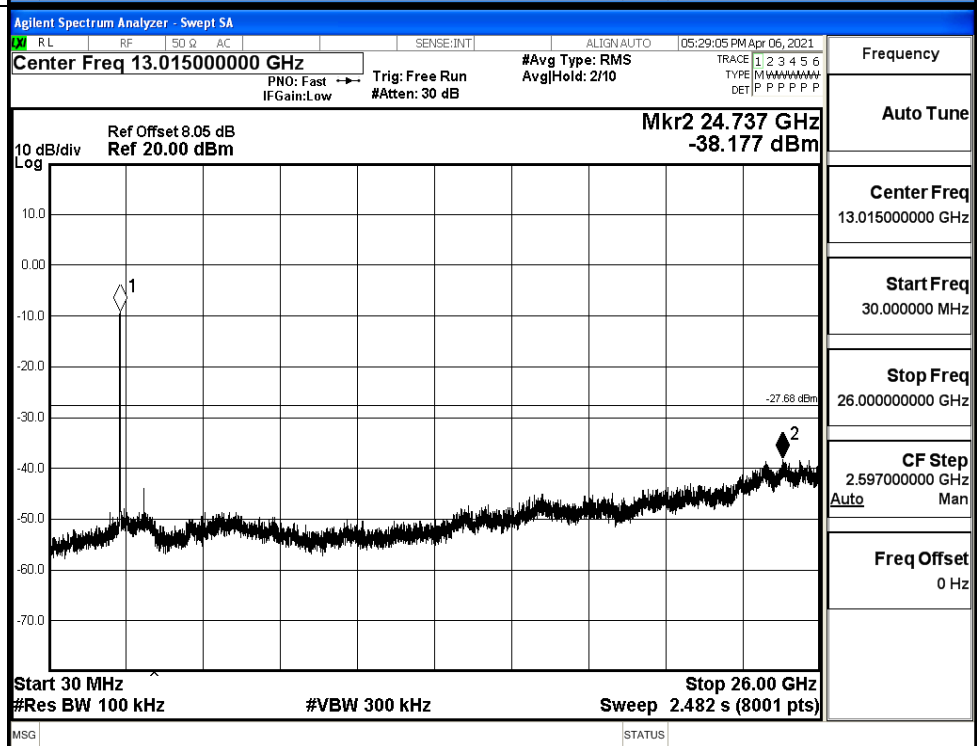
## 11N20SISO\_MCH\_Graphs

Pref/11N20  
SISO/MCHPuw/11N20  
SISO/MCH

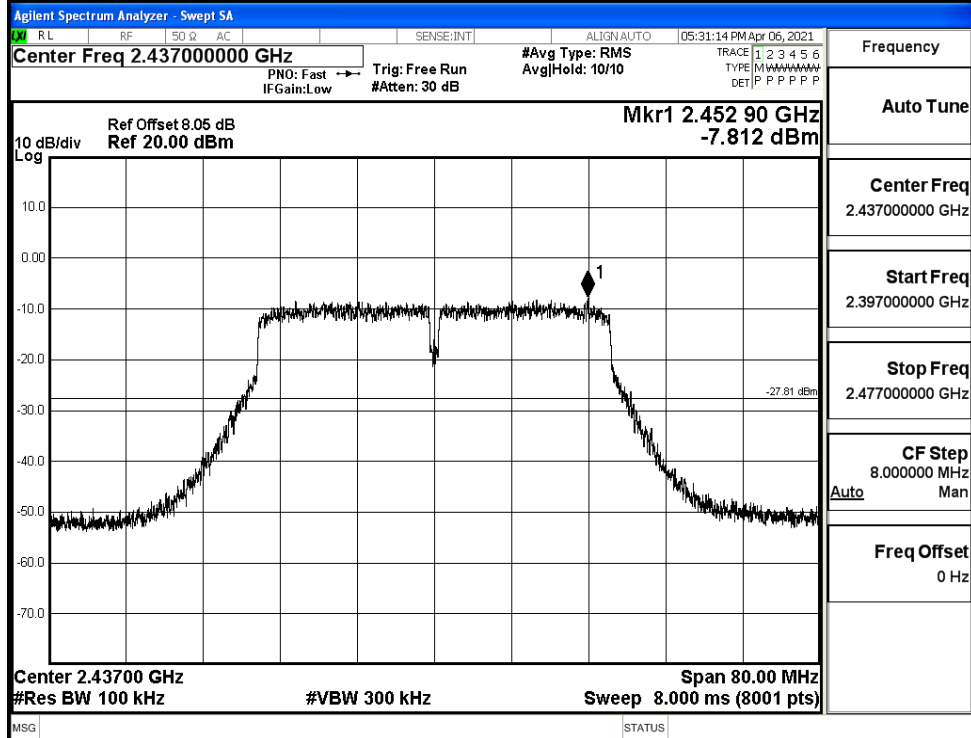
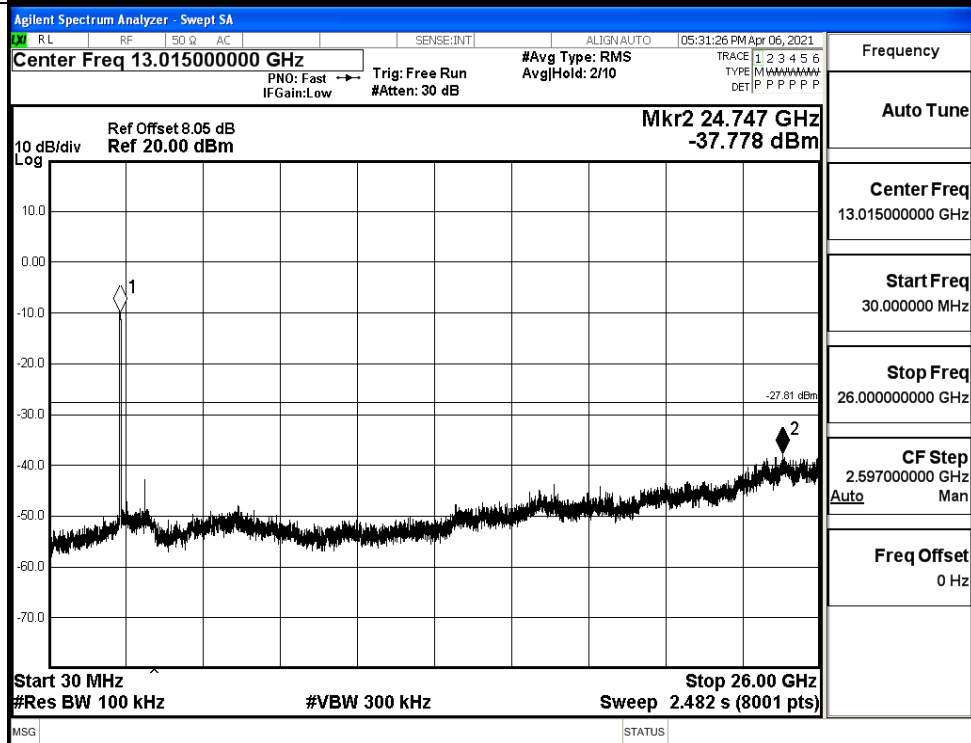
## 11N20SISO HCH Graphs

Pref/11N20  
SISO/HCHPuw/11N20  
SISO/HCH

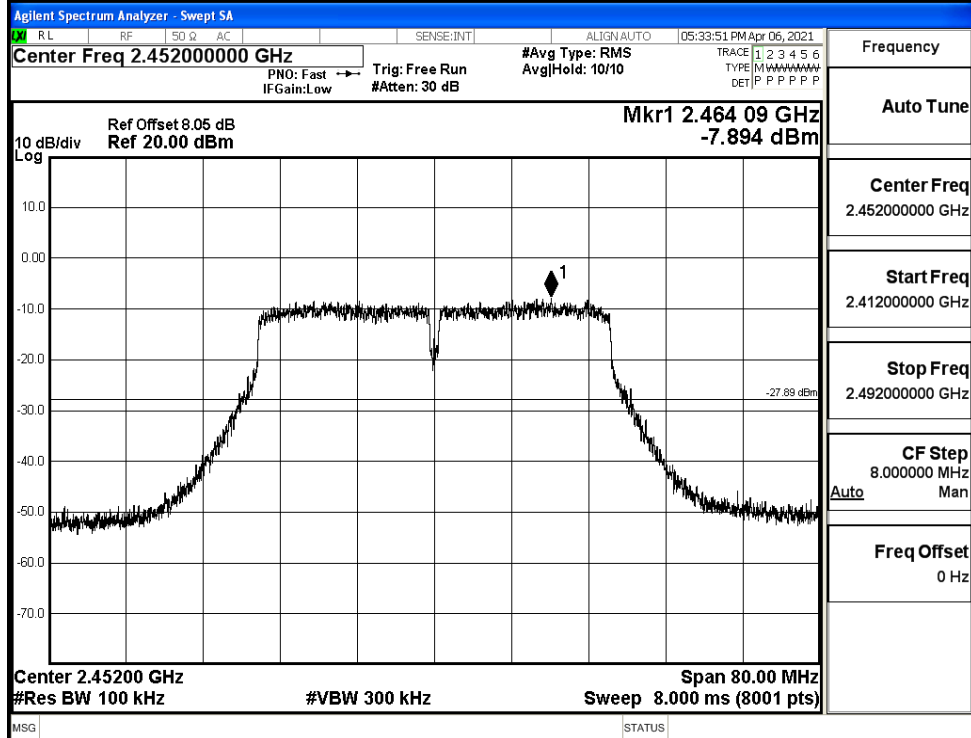
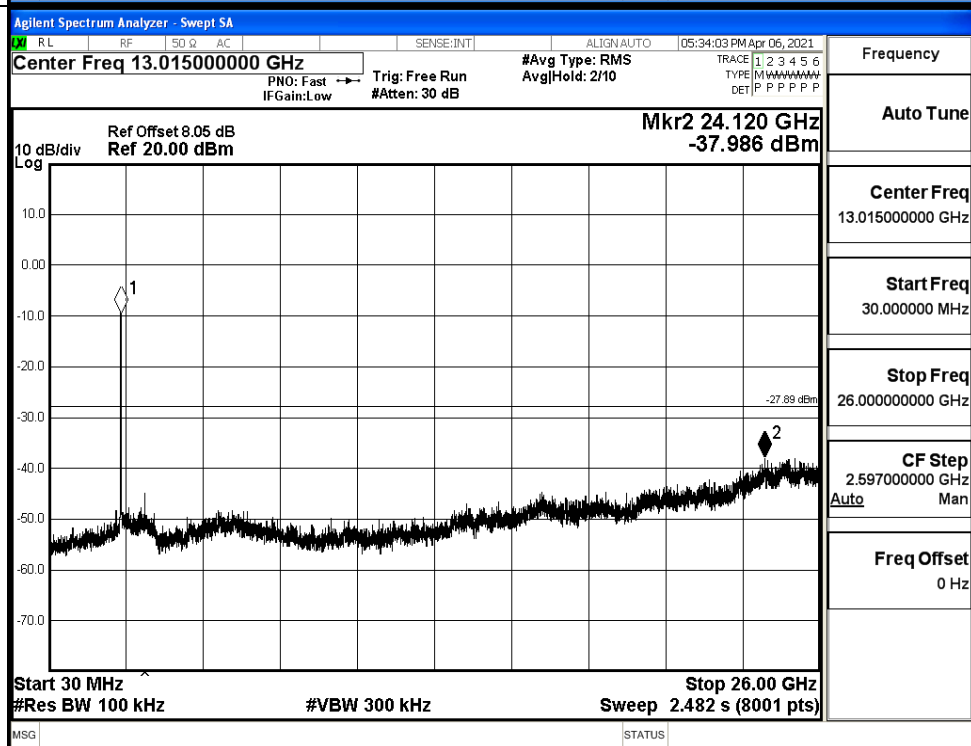
## 11N40SISO LCH Graphs

Pref/11N40  
SISO/LCHPuw/11N40  
SISO/LCH

## 11N40SISO\_MCH\_Graphs

Pref/11N40  
SISO/MCHPuw/11N40  
SISO/MCH

## 11N40SISO HCH Graphs

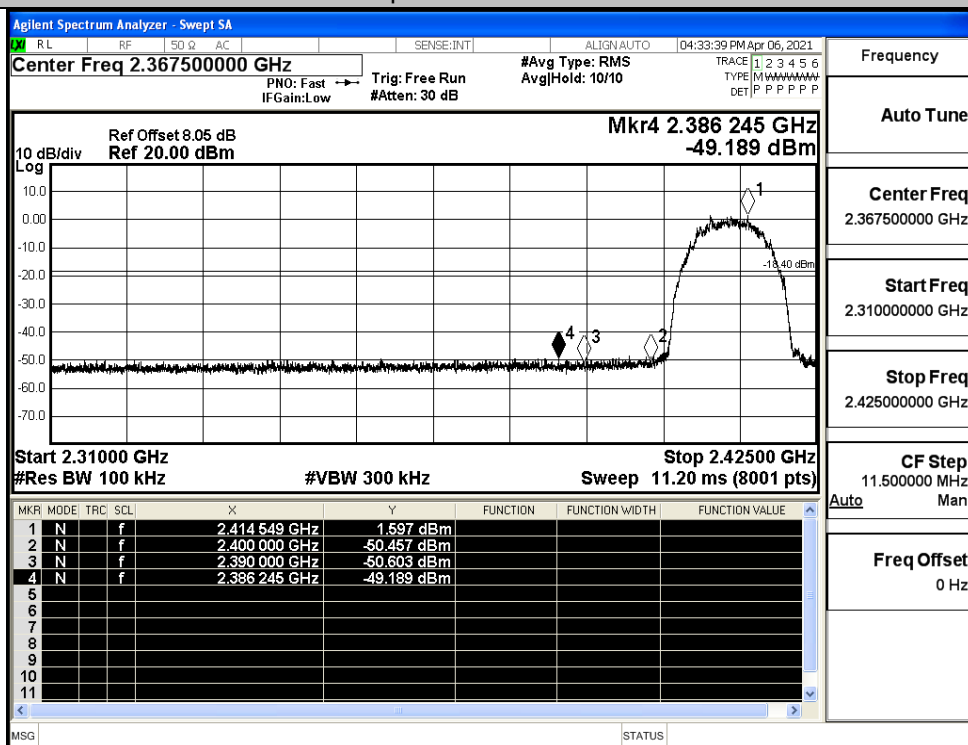
Pref/11N40  
SISO/HCHPuw/11N40  
SISO/HCH

## C.6 Band-edge for RF Conducted Emissions

| Mode      | Channel | Carrier Power[dBm] | Max.Spurious Level [dBm] | Limit [dBm] | Verdict |
|-----------|---------|--------------------|--------------------------|-------------|---------|
| 11B       | LCH     | 1.597              | -49.189                  | -18.4       | PASS    |
|           | HCH     | 1.867              | -47.963                  | -18.13      | PASS    |
| 11G       | LCH     | -3.302             | -48.786                  | -23.3       | PASS    |
|           | HCH     | -3.596             | -48.186                  | -23.6       | PASS    |
| 11N20SISO | LCH     | -3.814             | -49.276                  | -23.81      | PASS    |
|           | HCH     | -3.651             | -48.393                  | -23.65      | PASS    |
| 11N40SISO | LCH     | -7.760             | -48.906                  | -27.76      | PASS    |
|           | HCH     | -7.956             | -47.142                  | -27.96      | PASS    |

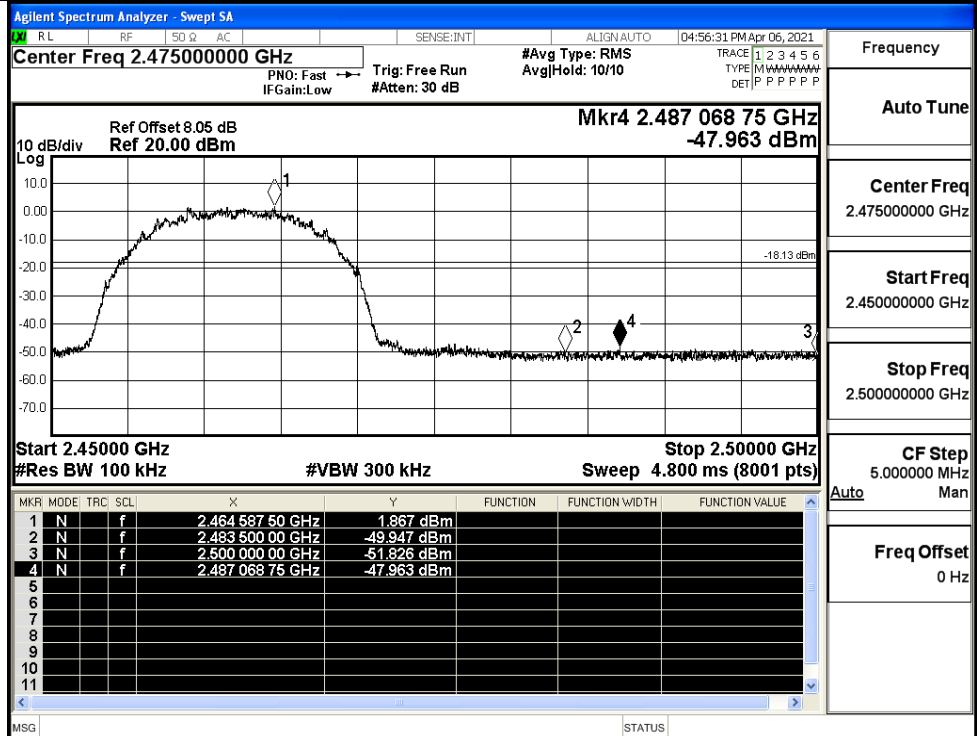
## Test Graphs

11B/LCH

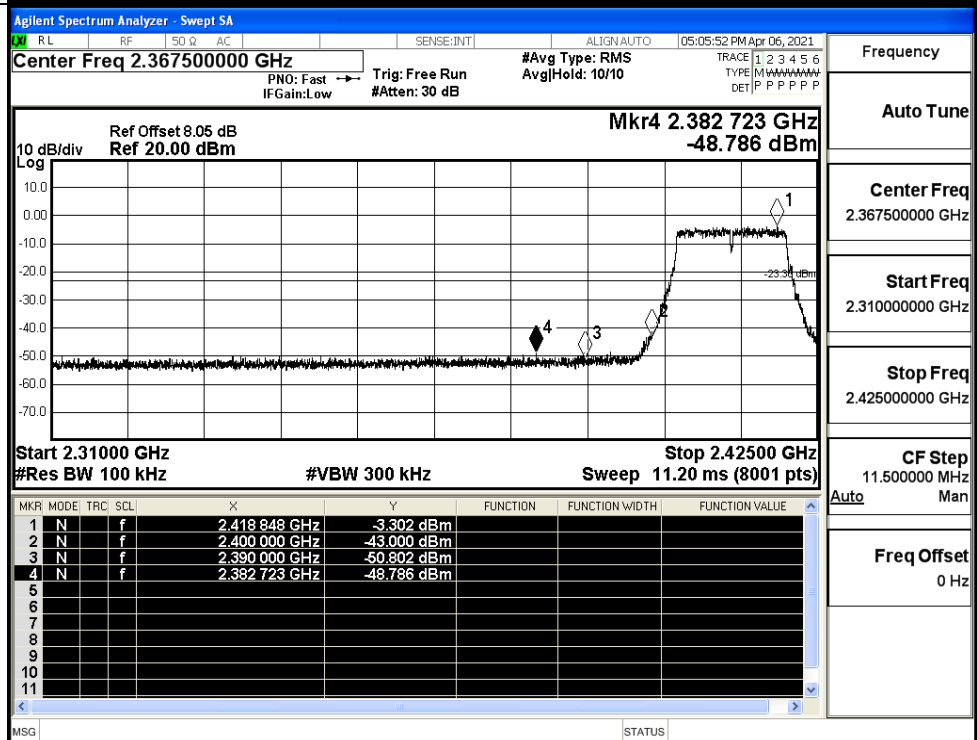




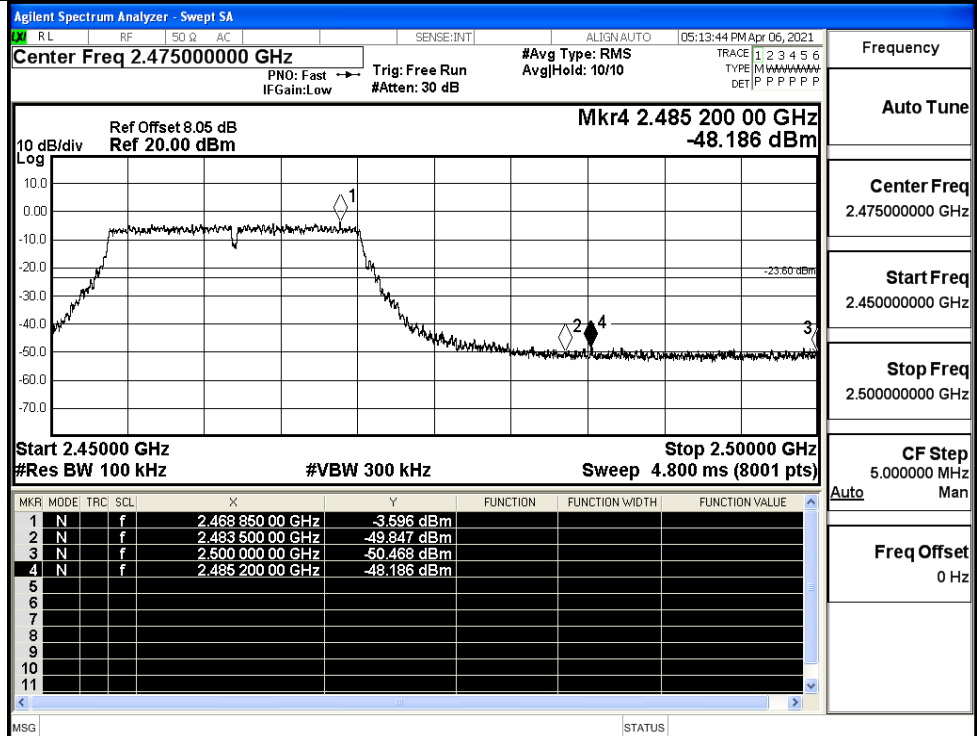
11B/HCH



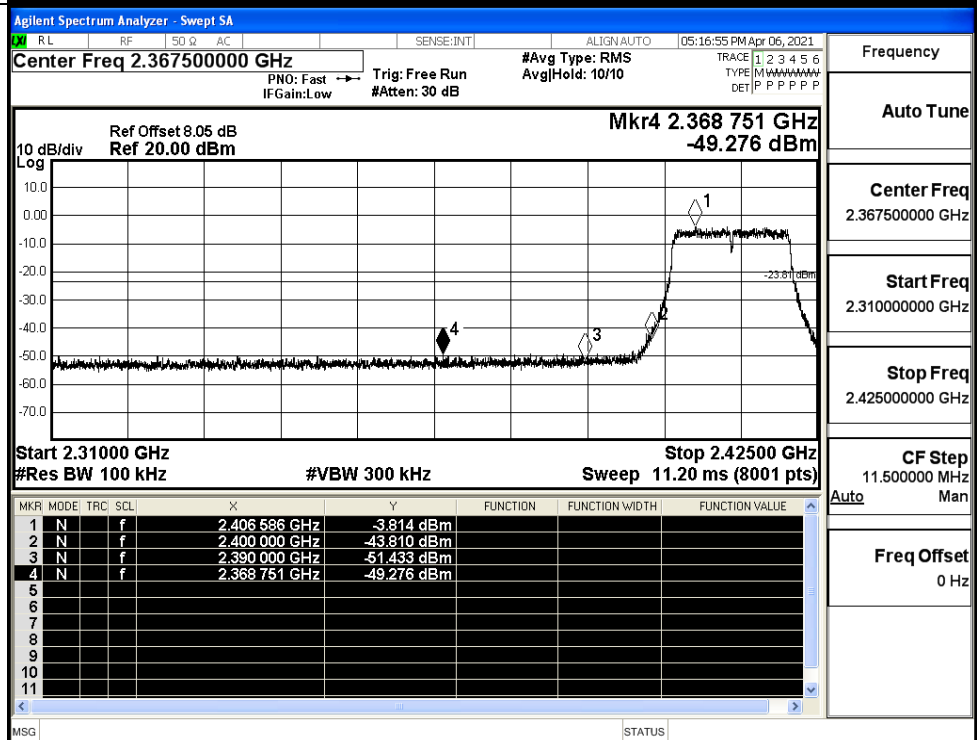
11G/LCH



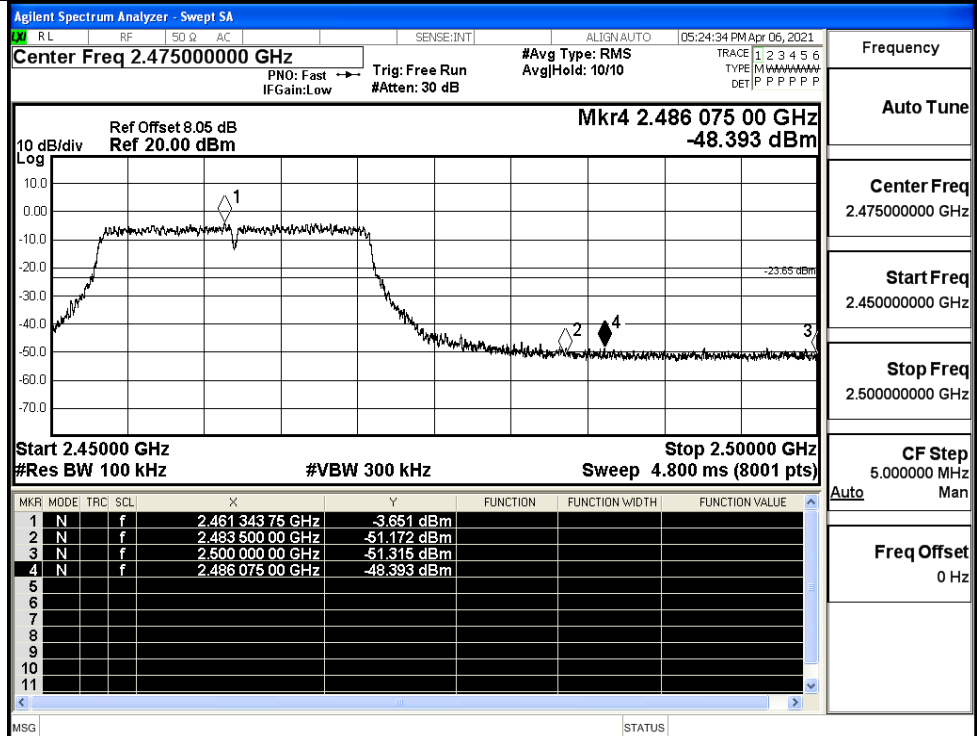
11G/HCH



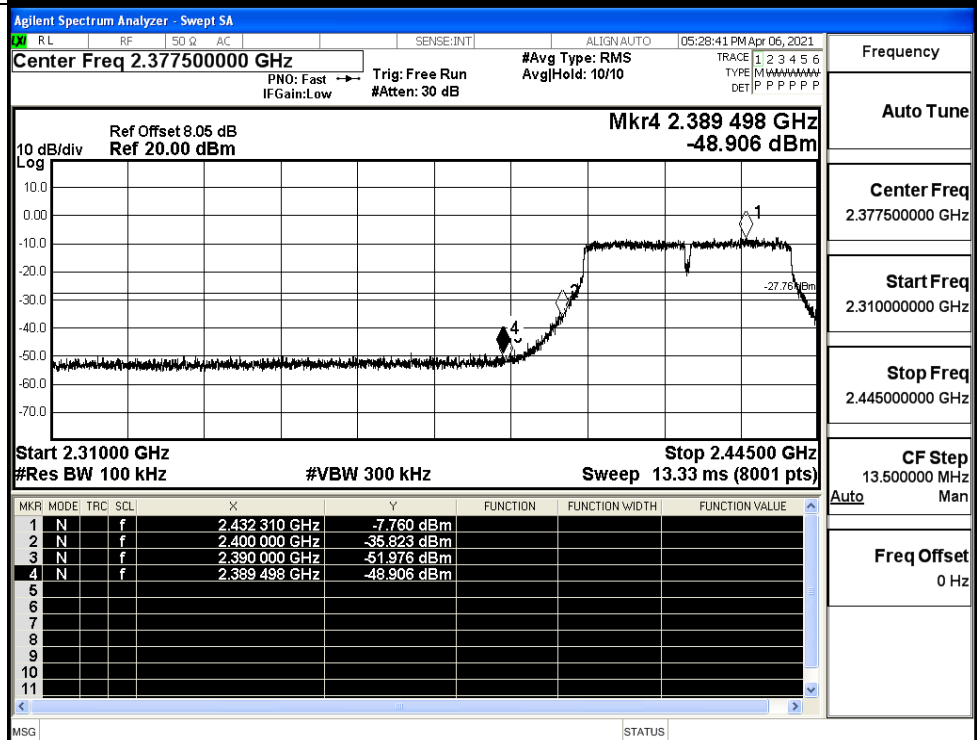
11N20SISO/LCH



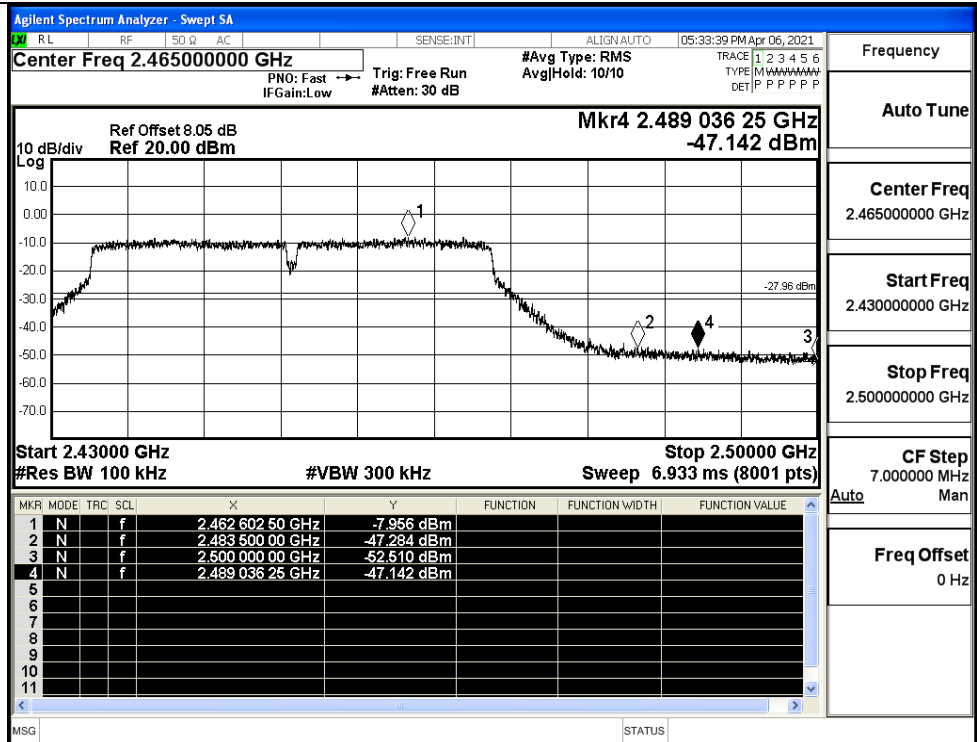
11N20SISO/HCH



11N40SISO/LCH



11N40SISO/HCH

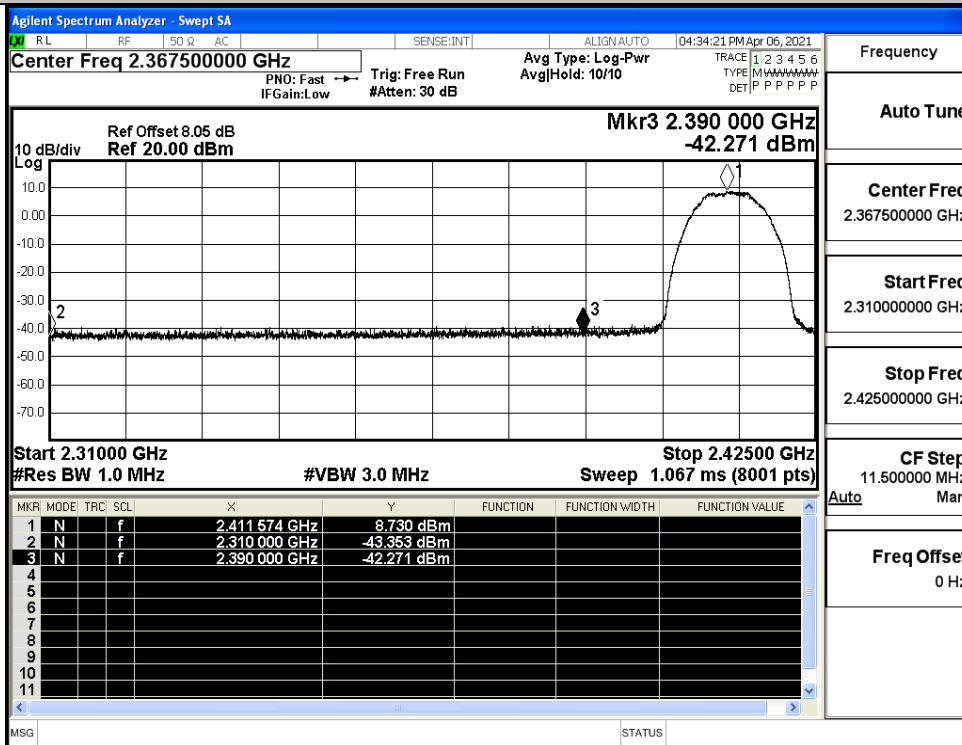


## C.7 Restrict-band band-edge measurements

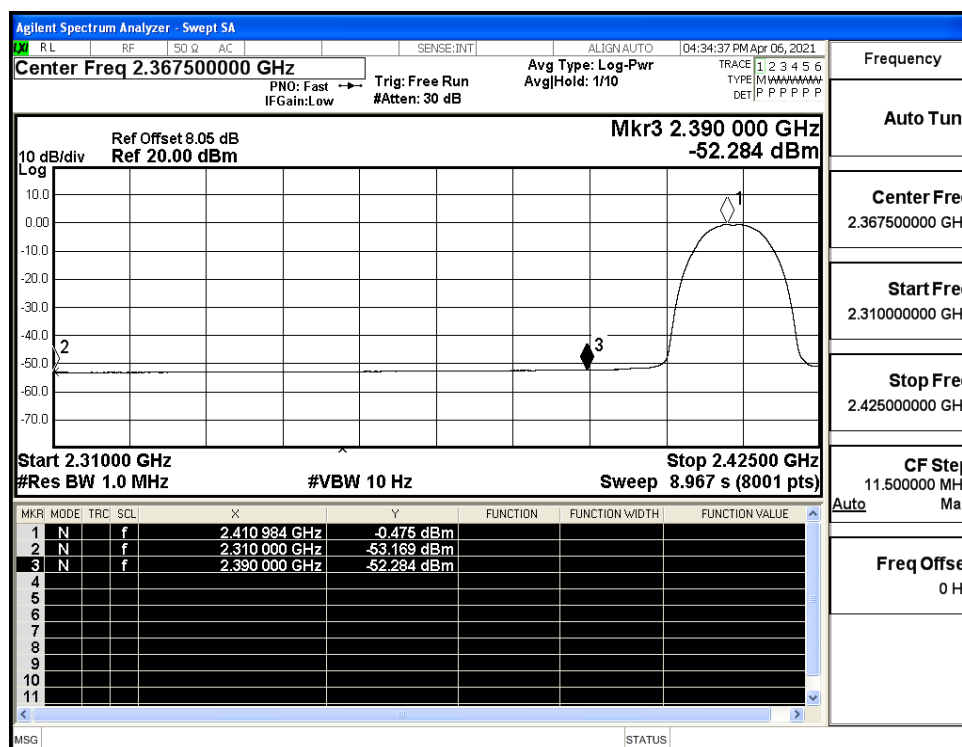
| Test Mode     | Test Channel | Ant  | Freq.  | Power [dBm] | Gain | Ground Factor | E [dBuV/m] | Detector | Limit [dBuV/m] | Verdict |
|---------------|--------------|------|--------|-------------|------|---------------|------------|----------|----------------|---------|
| 11B           | 2412         | Ant1 | 2310.0 | -43.35      | 2.0  | 0             | 51.90      | PEAK     | 74             | PASS    |
|               | 2412         | Ant1 | 2310.0 | -53.17      | 2.0  | 0             | 42.09      | AV       | 54             | PASS    |
|               | 2412         | Ant1 | 2390.0 | -42.27      | 2.0  | 0             | 52.99      | PEAK     | 74             | PASS    |
|               | 2412         | Ant1 | 2390.0 | -52.28      | 2.0  | 0             | 42.97      | AV       | 54             | PASS    |
|               | 2462         | Ant1 | 2483.5 | -41.96      | 2.0  | 0             | 53.30      | PEAK     | 74             | PASS    |
|               | 2462         | Ant1 | 2483.5 | -51.73      | 2.0  | 0             | 43.53      | AV       | 54             | PASS    |
|               | 2462         | Ant1 | 2500.0 | -40.49      | 2.0  | 0             | 54.77      | PEAK     | 74             | PASS    |
|               | 2462         | Ant1 | 2500.0 | -51.57      | 2.0  | 0             | 43.69      | AV       | 54             | PASS    |
| 11G           | 2412         | Ant1 | 2310.0 | -42.58      | 2.0  | 0             | 52.68      | PEAK     | 74             | PASS    |
|               | 2412         | Ant1 | 2310.0 | -53.24      | 2.0  | 0             | 42.01      | AV       | 54             | PASS    |
|               | 2412         | Ant1 | 2390.0 | -40.42      | 2.0  | 0             | 54.83      | PEAK     | 74             | PASS    |
|               | 2412         | Ant1 | 2390.0 | -52.15      | 2.0  | 0             | 43.10      | AV       | 54             | PASS    |
|               | 2462         | Ant1 | 2483.5 | -39.29      | 2.0  | 0             | 55.97      | PEAK     | 74             | PASS    |
|               | 2462         | Ant1 | 2483.5 | -51.14      | 2.0  | 0             | 44.12      | AV       | 54             | PASS    |
|               | 2462         | Ant1 | 2500.0 | -39.08      | 2.0  | 0             | 56.17      | PEAK     | 74             | PASS    |
|               | 2462         | Ant1 | 2500.0 | -51.55      | 2.0  | 0             | 43.71      | AV       | 54             | PASS    |
| 11N20<br>SISO | 2412         | Ant1 | 2310.0 | -43.52      | 2.0  | 0             | 51.74      | PEAK     | 74             | PASS    |
|               | 2412         | Ant1 | 2310.0 | -53.26      | 2.0  | 0             | 42.00      | AV       | 54             | PASS    |
|               | 2412         | Ant1 | 2390.0 | -42.09      | 2.0  | 0             | 53.16      | PEAK     | 74             | PASS    |
|               | 2412         | Ant1 | 2390.0 | -52.09      | 2.0  | 0             | 43.17      | AV       | 54             | PASS    |
|               | 2462         | Ant1 | 2483.5 | -40.00      | 2.0  | 0             | 55.26      | PEAK     | 74             | PASS    |
|               | 2462         | Ant1 | 2483.5 | -50.91      | 2.0  | 0             | 44.35      | AV       | 54             | PASS    |
|               | 2462         | Ant1 | 2500.0 | -41.27      | 2.0  | 0             | 53.98      | PEAK     | 74             | PASS    |
|               | 2462         | Ant1 | 2500.0 | -51.62      | 2.0  | 0             | 43.64      | AV       | 54             | PASS    |
| 11N40<br>SISO | 2422         | Ant1 | 2310.0 | -42.22      | 2.0  | 0             | 53.04      | PEAK     | 74             | PASS    |
|               | 2422         | Ant1 | 2310.0 | -53.29      | 2.0  | 0             | 41.96      | AV       | 54             | PASS    |

|  |      |      |        |        |     |   |       |      |    |      |
|--|------|------|--------|--------|-----|---|-------|------|----|------|
|  | 2422 | Ant1 | 2390.0 | -38.58 | 2.0 | 0 | 56.68 | PEAK | 74 | PASS |
|  | 2422 | Ant1 | 2390.0 | -51.74 | 2.0 | 0 | 43.52 | AV   | 54 | PASS |
|  | 2452 | Ant1 | 2483.5 | -40.38 | 2.0 | 0 | 54.88 | PEAK | 74 | PASS |
|  | 2452 | Ant1 | 2483.5 | -49.50 | 2.0 | 0 | 45.76 | AV   | 54 | PASS |
|  | 2452 | Ant1 | 2500.0 | -40.38 | 2.0 | 0 | 54.87 | PEAK | 74 | PASS |
|  | 2452 | Ant1 | 2500.0 | -51.26 | 2.0 | 0 | 44.00 | AV   | 54 | PASS |

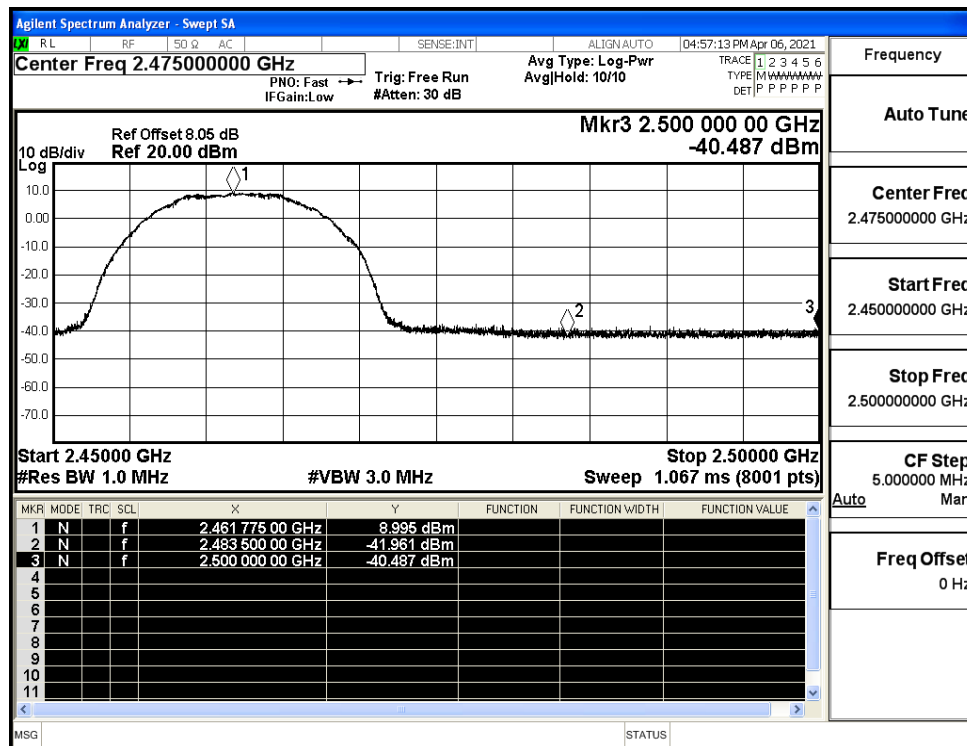
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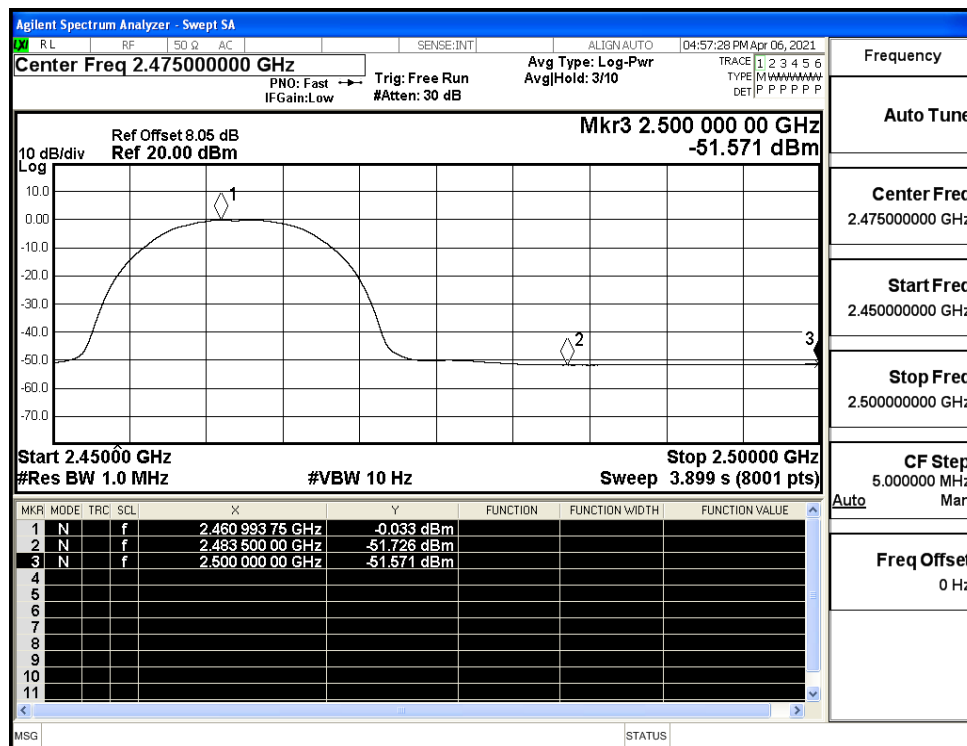
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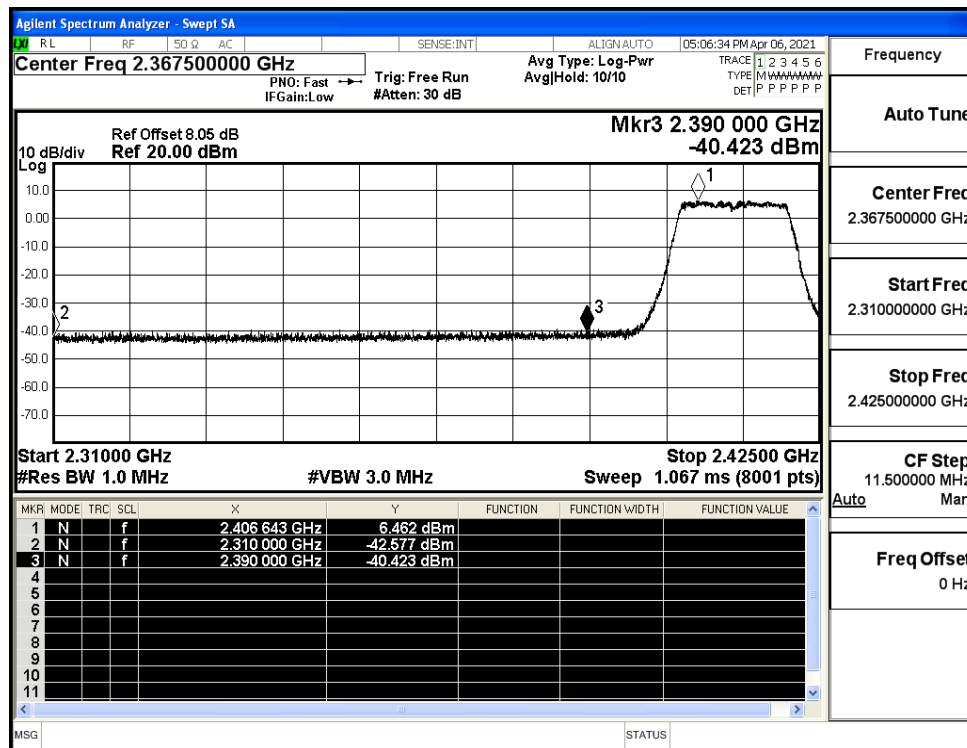


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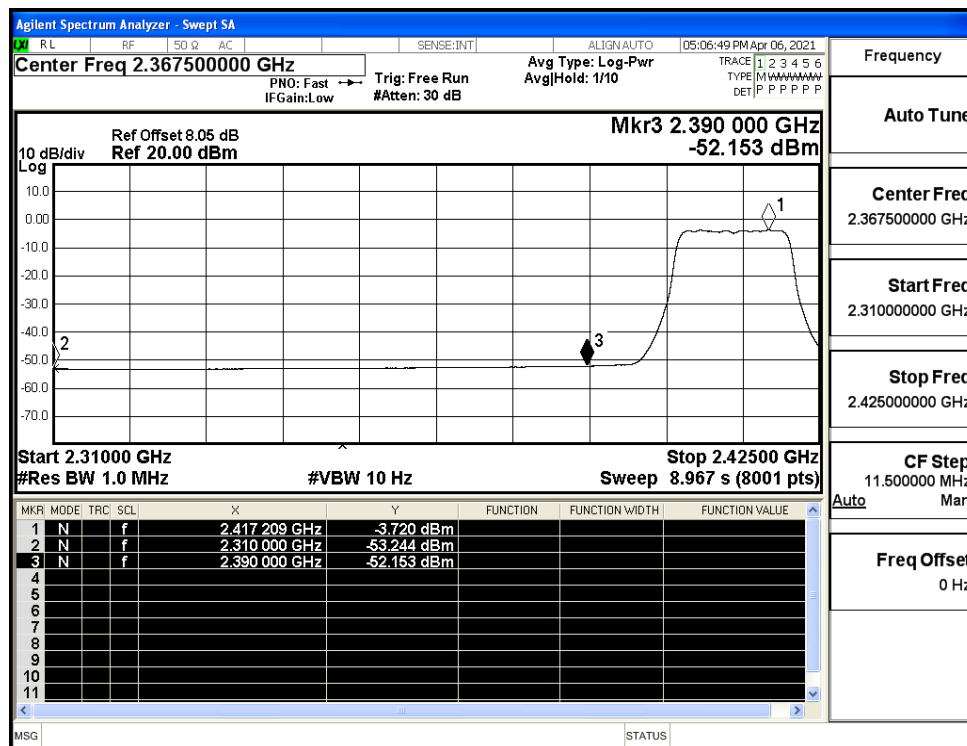




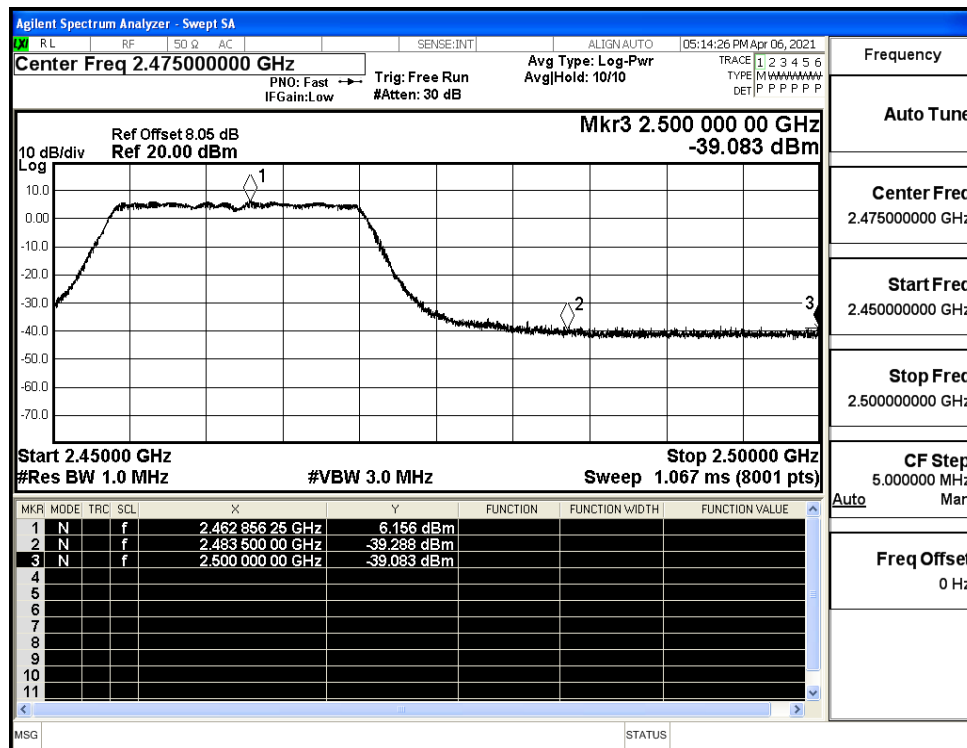
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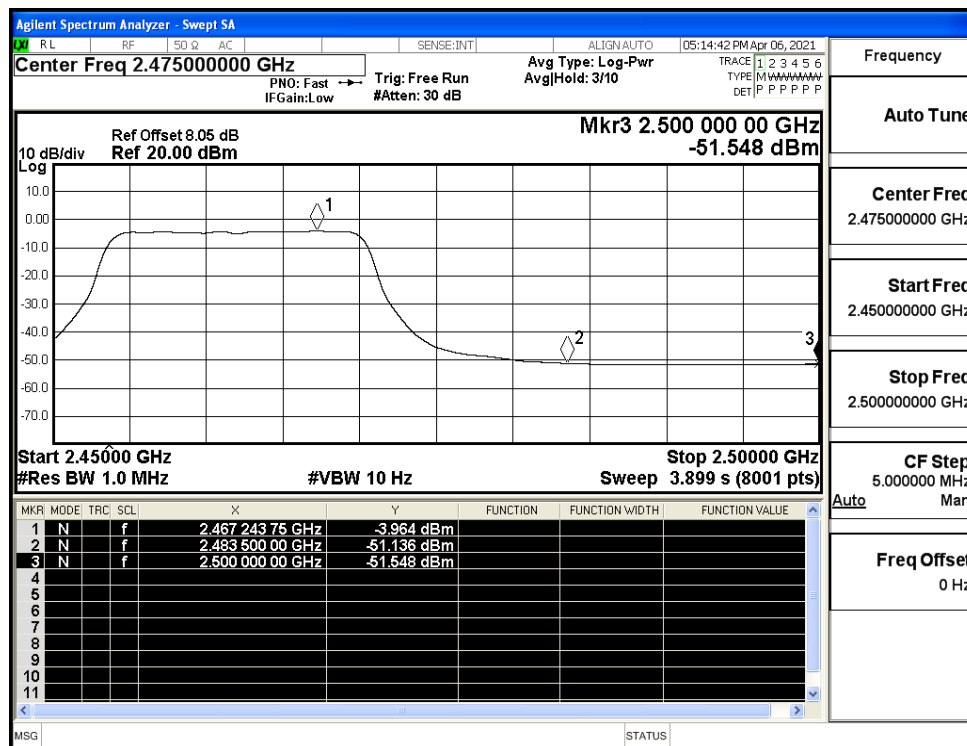
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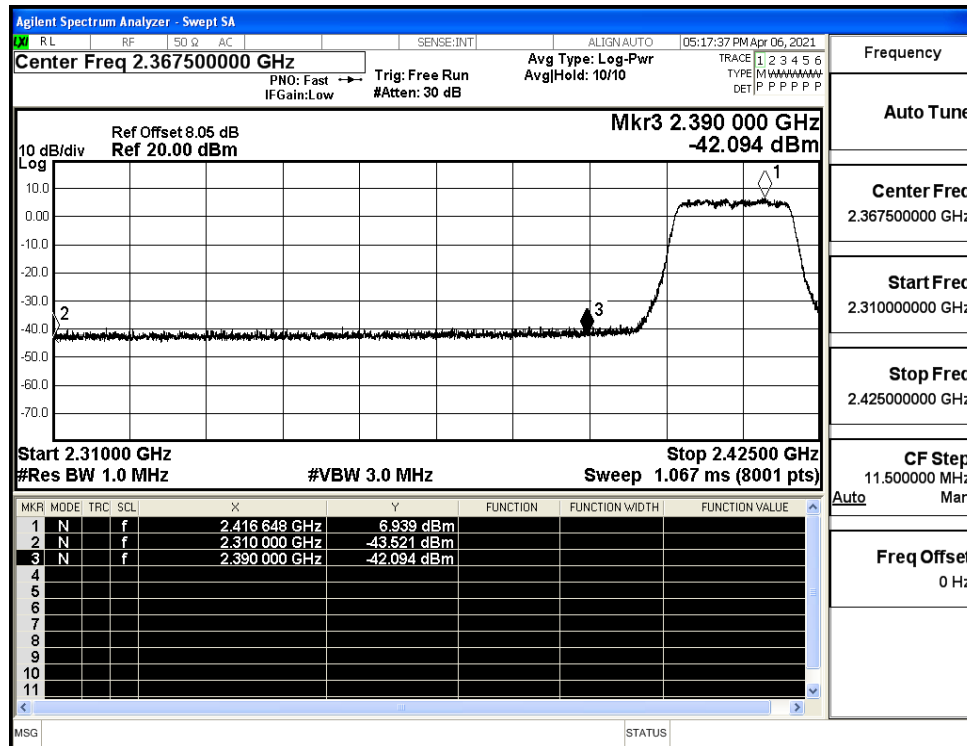
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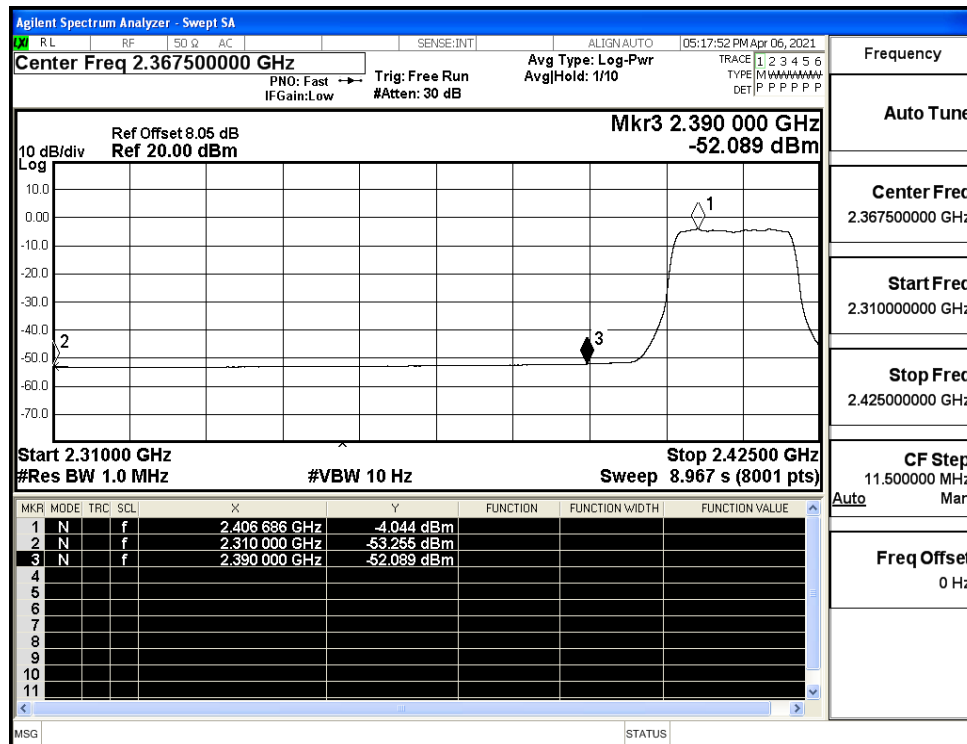
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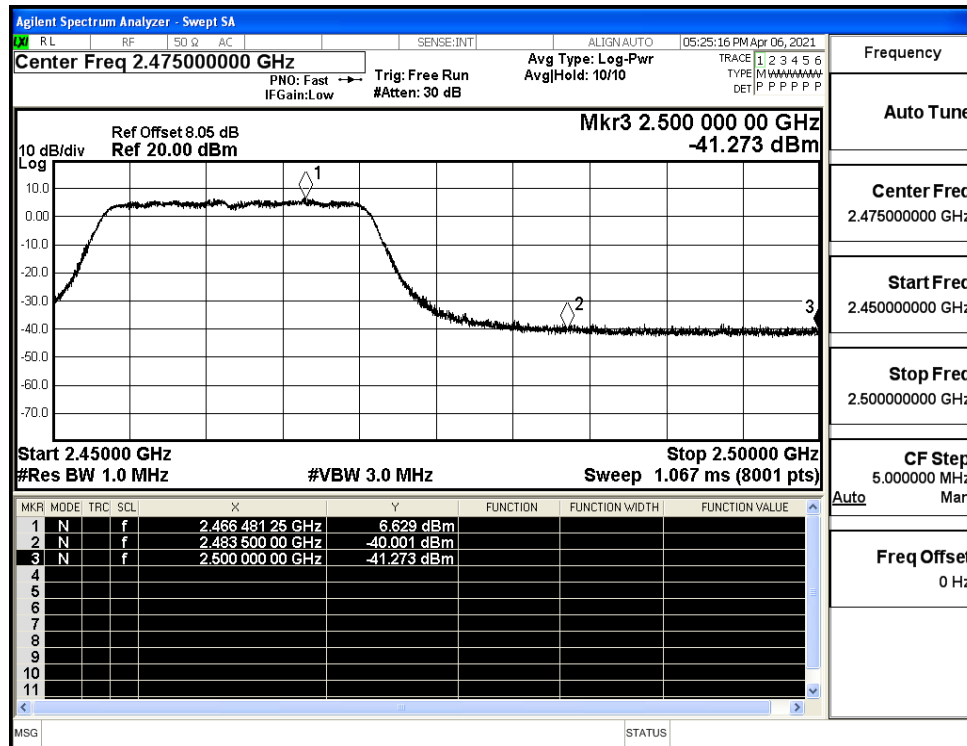
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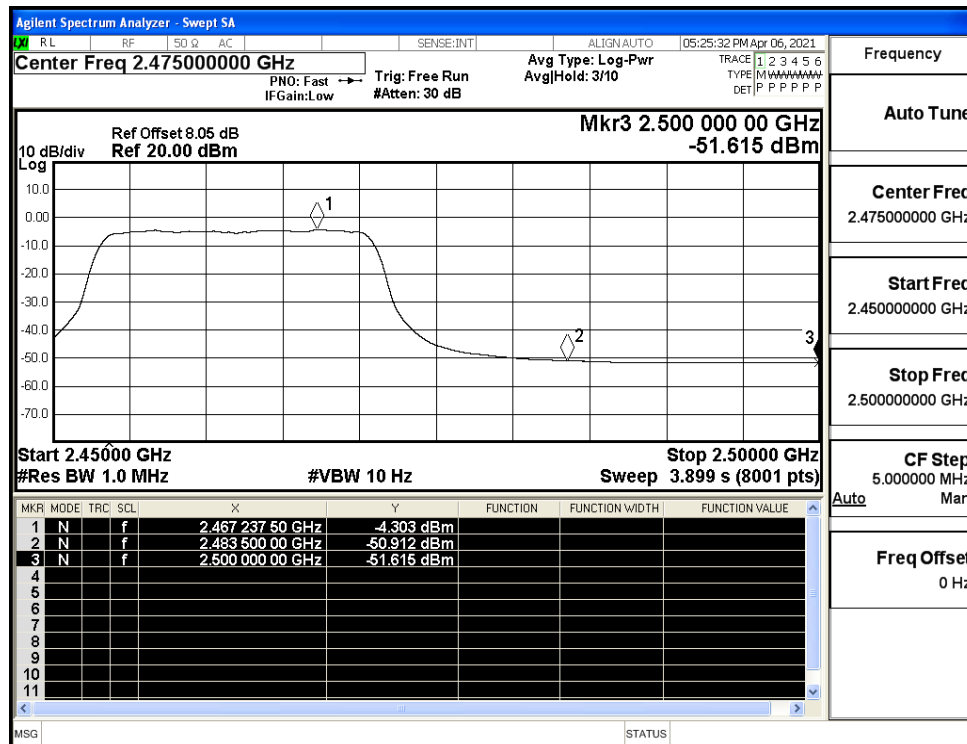
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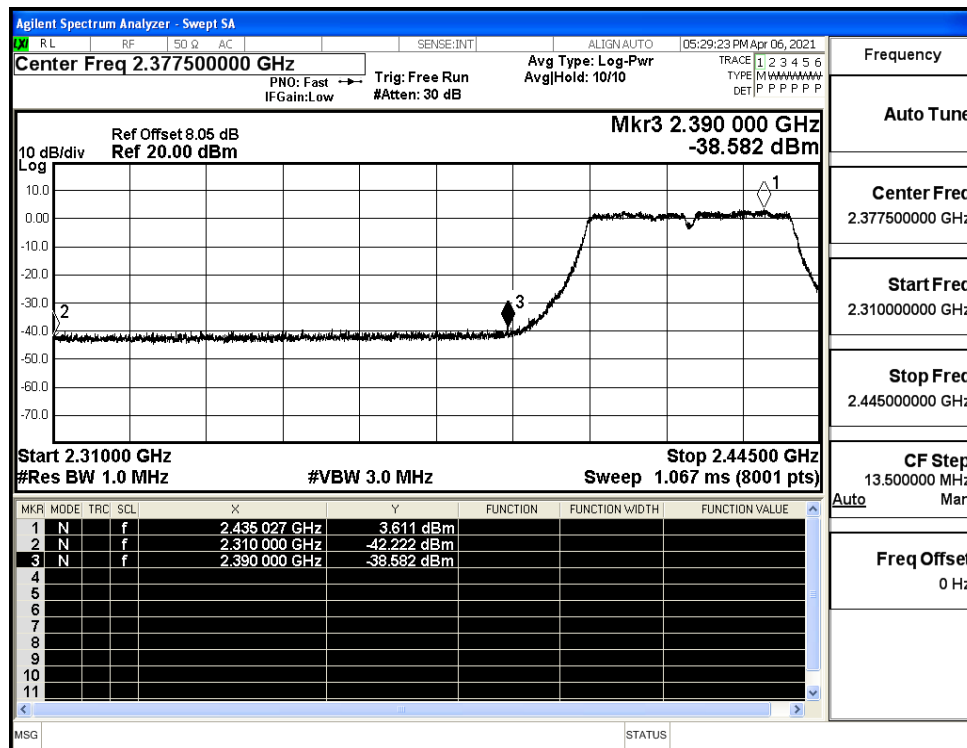
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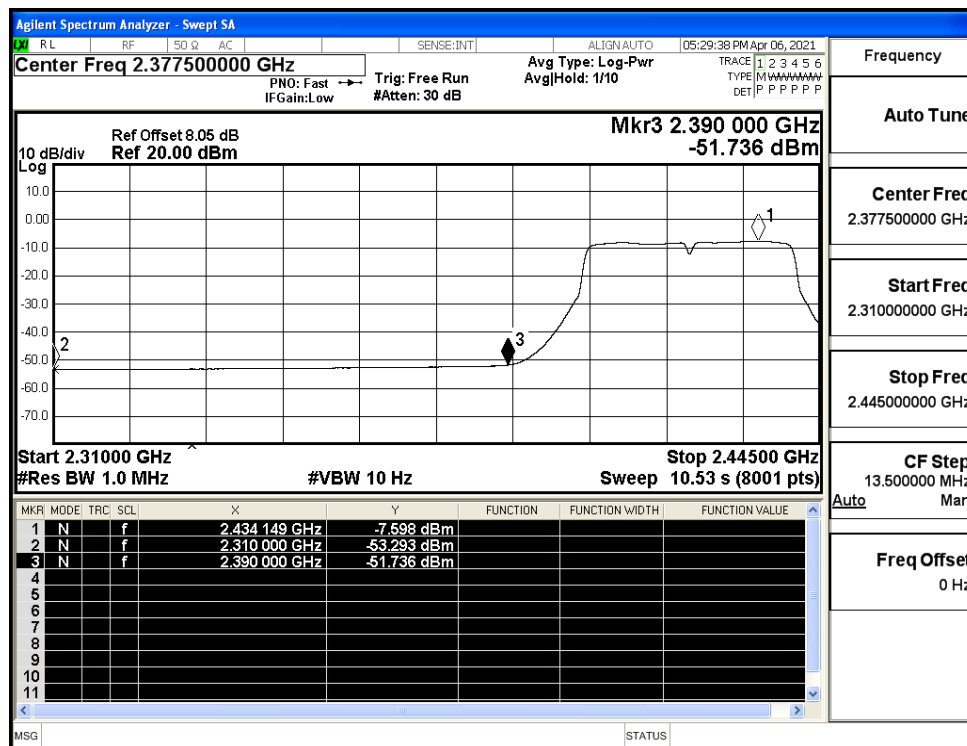
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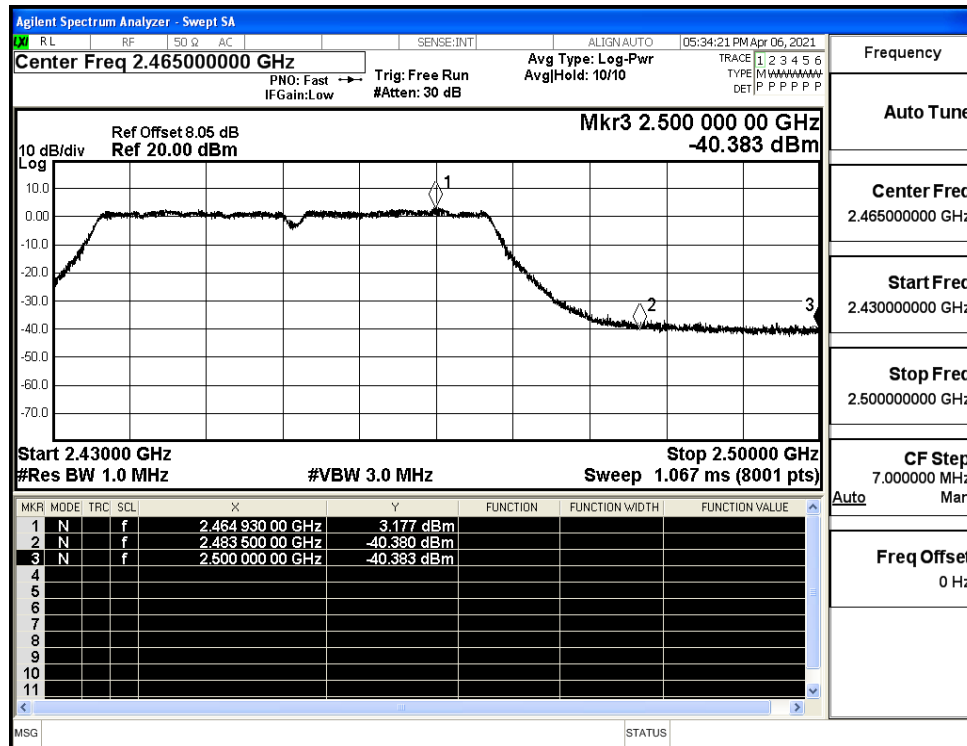
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## Restrict-band band-edge measurements\_11N40SISO\_2422\_Ant1\_AV



## Restrict-band band-edge measurements\_11N40SISO\_2452\_Ant1\_PEAK



## Restrict-band band-edge measurements\_11N40SISO\_2452\_Ant1\_AV

