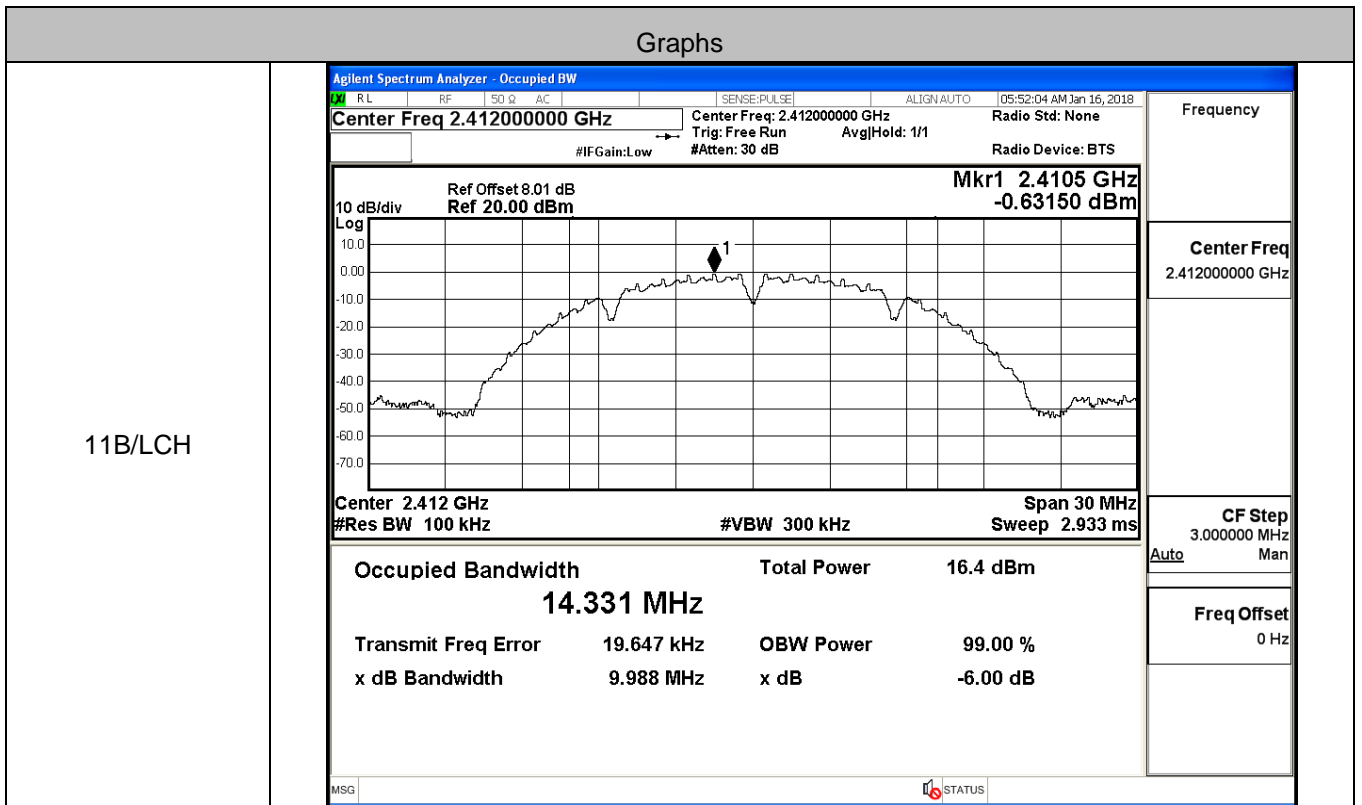


# 1: 6dB Bandwidth

## Result Table

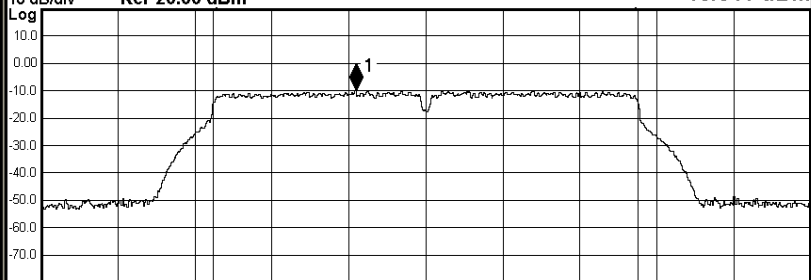
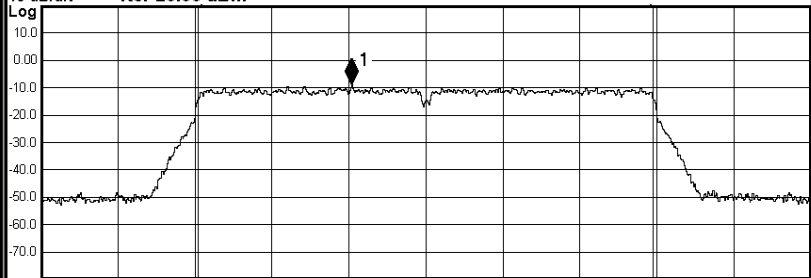
| Mode      | Channel | 6dB Bandwidth [MHz] | Verdict |
|-----------|---------|---------------------|---------|
| 11B       | LCH     | 9.988               | PASS    |
| 11B       | MCH     | 9.993               | PASS    |
| 11B       | HCH     | 9.986               | PASS    |
| 11G       | LCH     | 16.60               | PASS    |
| 11G       | MCH     | 16.62               | PASS    |
| 11G       | HCH     | 16.61               | PASS    |
| 11N20SISO | LCH     | 17.82               | PASS    |
| 11N20SISO | MCH     | 17.83               | PASS    |
| 11N20SISO | HCH     | 17.82               | PASS    |
| 11N40SISO | LCH     | 36.51               | PASS    |
| 11N40SISO | MCH     | 36.49               | PASS    |
| 11N40SISO | HCH     | 36.48               | PASS    |

## Test Graph



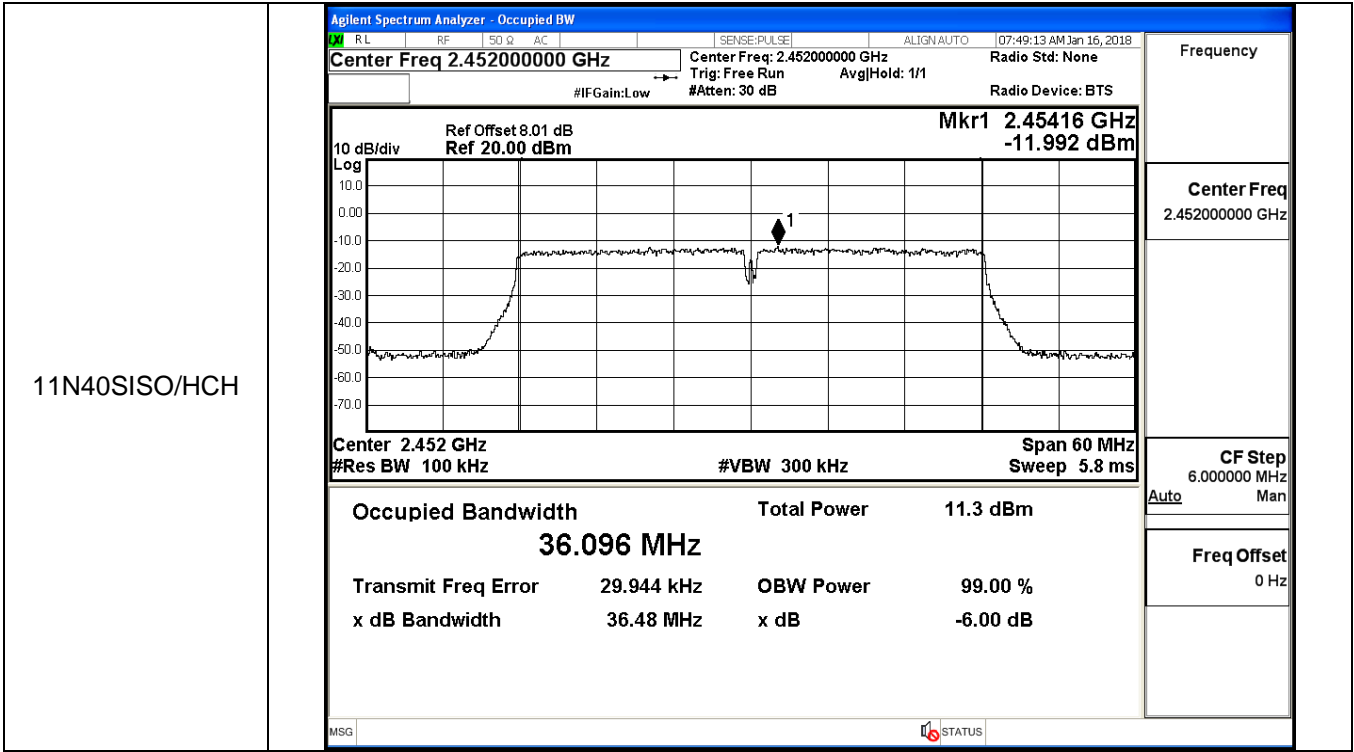
|                |   |   |
|----------------|---|---|
| <p>11B/MCH</p> | <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.43700000 GHz</p> <p>Center Freq: 2.437000000 GHz</p> <p>Radio Std: None</p> <p>Trig: Free Run Avg/Hold: 1/1</p> <p>#IFGain:Low #Atten: 30 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref Offset 8.01 dB Mkr1 2.4355 GHz</p> <p>Ref 20.00 dBm -0.79895 dBm</p> <p>Center 2.437 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms</p> <p>Occupied Bandwidth Total Power 16.2 dBm</p> <p>14.300 MHz</p> <p>Transmit Freq Error 26.727 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.993 MHz x dB -6.00 dB</p> | <p>Frequency</p> <p>Center Freq</p> <p>2.437000000 GHz</p> <p>CF Step</p> <p>3.000000 MHz</p> <p>Auto Man</p> <p>Freq Offset</p> <p>0 Hz</p>  |
|                | <p>11B/HCH</p>  | <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.46200000 GHz</p> <p>Center Freq: 2.462000000 GHz</p> <p>Radio Std: None</p> <p>Trig: Free Run Avg/Hold: 1/1</p> <p>#IFGain:Low #Atten: 30 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref Offset 8.01 dB Mkr1 2.4605 GHz</p> <p>Ref 20.00 dBm -0.99557 dBm</p> <p>Center 2.462 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms</p> <p>Occupied Bandwidth Total Power 16.0 dBm</p> <p>14.293 MHz</p> <p>Transmit Freq Error 23.961 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.986 MHz x dB -6.00 dB</p> |

|                |  |   |
|----------------|--|---|
| <p>11G/LCH</p> | <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.41200000 GHz</p> <p>Center Freq: 2.41200000 GHz</p> <p>Trig: Free Run Avg/Hold: 1/1</p> <p>#IFGain:Low #Atten: 30 dB</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref Offset 8.01 dB Mkr1 2.40951 GHz</p> <p>Ref 20.00 dBm -9.0056 dBm</p> <p>Center 2.412 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms</p> <p>Occupied Bandwidth Total Power 11.5 dBm</p> <p>16.501 MHz</p> <p>Transmit Freq Error -4.988 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 16.60 MHz x dB -6.00 dB</p> | <p>Frequency</p> <p>Center Freq</p> <p>2.41200000 GHz</p> <p>CF Step</p> <p>3.000000 MHz</p> <p>Auto Man</p> <p>Freq Offset</p> <p>0 Hz</p>   |
|                | <p>11G/MCH</p>   | <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.43700000 GHz</p> <p>Center Freq: 2.437000000 GHz</p> <p>Trig: Free Run Avg/Hold: 1/1</p> <p>#IFGain:Low #Atten: 30 dB</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref Offset 8.01 dB Mkr1 2.43427 GHz</p> <p>Ref 20.00 dBm -9.8160 dBm</p> <p>Center 2.437 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms</p> <p>Occupied Bandwidth Total Power 10.7 dBm</p> <p>16.534 MHz</p> <p>Transmit Freq Error -8.562 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 16.62 MHz x dB -6.00 dB</p> |

|                |  |   |
|----------------|--|---|
| <p>11G/HCH</p> | <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.46200000 GHz</p> <p>Center Freq: 2.46200000 GHz</p> <p>Trig: Free Run Avg/Hold: 1/1</p> <p>#IFGain:Low #Atten: 30 dB</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref Offset 8.01 dB Mkr1 2.45927 GHz</p> <p>Ref 20.00 dBm -10.041 dBm</p>  <p>Center 2.462 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 16.542 MHz</p> <p>Total Power 10.5 dBm</p> <p>Transmit Freq Error -12.237 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 16.61 MHz</p> <p>x dB -6.00 dB</p> <p>MSG STATUS</p> | <p>Frequency</p> <p>Center Freq 2.46200000 GHz</p> <p>CF Step 3.000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0 Hz</p>  |
|                | <p>11N20SISO/LCH</p>   | <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.41200000 GHz</p> <p>Center Freq: 2.41200000 GHz</p> <p>Trig: Free Run Avg/Hold: 1/1</p> <p>#IFGain:Low #Atten: 30 dB</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref Offset 8.01 dB Mkr1 2.40912 GHz</p> <p>Ref 20.00 dBm -9.0330 dBm</p>  <p>Center 2.412 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.679 MHz</p> <p>Total Power 10.9 dBm</p> <p>Transmit Freq Error 13.974 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 17.82 MHz</p> <p>x dB -6.00 dB</p> <p>MSG STATUS</p> |

|                      |   |   |
|----------------------|---|---|
| <p>11N20SISO/MCH</p> | <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.43700000 GHz</p> <p>Center Freq: 2.437000000 GHz</p> <p>Trig: Free Run Avg/Hold: 1/1</p> <p>#IFGain:Low #Atten: 30 dB</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref Offset 8.01 dB Mkr1 2.43412 GHz</p> <p>Ref 20.00 dBm -9.6413 dBm</p> <p>Center 2.437 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms</p> <p>Occupied Bandwidth Total Power 10.7 dBm</p> <p>17.669 MHz</p> <p>Transmit Freq Error 21.340 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 17.83 MHz x dB -6.00 dB</p> | <p>Frequency</p> <p>Center Freq</p> <p>2.437000000 GHz</p> <p>CF Step</p> <p>3.000000 MHz</p> <p>Auto Man</p> <p>Freq Offset</p> <p>0 Hz</p>  |
|                      | <p>11N20SISO/HCH</p>  | <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.46200000 GHz</p> <p>Center Freq: 2.462000000 GHz</p> <p>Trig: Free Run Avg/Hold: &gt;1/1</p> <p>#IFGain:Low #Atten: 30 dB</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref Offset 8.01 dB Mkr1 2.45912 GHz</p> <p>Ref 20.00 dBm -9.4502 dBm</p> <p>Center 2.462 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms</p> <p>Occupied Bandwidth Total Power 10.7 dBm</p> <p>17.677 MHz</p> <p>Transmit Freq Error 16.360 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 17.82 MHz x dB -6.00 dB</p> |

|                      |   |   |
|----------------------|---|---|
| <p>11N40SISO/LCH</p> | <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.42200000 GHz</p> <p>Center Freq: 2.42200000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 1/1</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>10 dB/div</p> <p>Ref Offset 8.01 dB</p> <p>Ref 20.00 dBm</p> <p>Mkr1 2.42416 GHz</p> <p>-12.176 dBm</p> <p>Center 2.422 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 60 MHz</p> <p>Sweep 5.8 ms</p> <p>Occupied Bandwidth 36.111 MHz</p> <p>Total Power 11.4 dBm</p> <p>Transmit Freq Error 19.627 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 36.51 MHz</p> <p>x dB -6.00 dB</p> | <p>Frequency</p> <p>Center Freq</p> <p>2.42200000 GHz</p> <p>CF Step</p> <p>6.000000 MHz</p> <p>Auto</p> <p>Man</p> <p>Freq Offset</p> <p>0 Hz</p>  |
|                      | <p>11N40SISO/MCH</p>  | <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.43700000 GHz</p> <p>Center Freq: 2.43700000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 1/1</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>10 dB/div</p> <p>Ref Offset 8.01 dB</p> <p>Ref 20.00 dBm</p> <p>Mkr1 2.43916 GHz</p> <p>-12.397 dBm</p> <p>Center 2.437 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 60 MHz</p> <p>Sweep 5.8 ms</p> <p>Occupied Bandwidth 36.096 MHz</p> <p>Total Power 11.2 dBm</p> <p>Transmit Freq Error 27.798 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 36.49 MHz</p> <p>x dB -6.00 dB</p> |

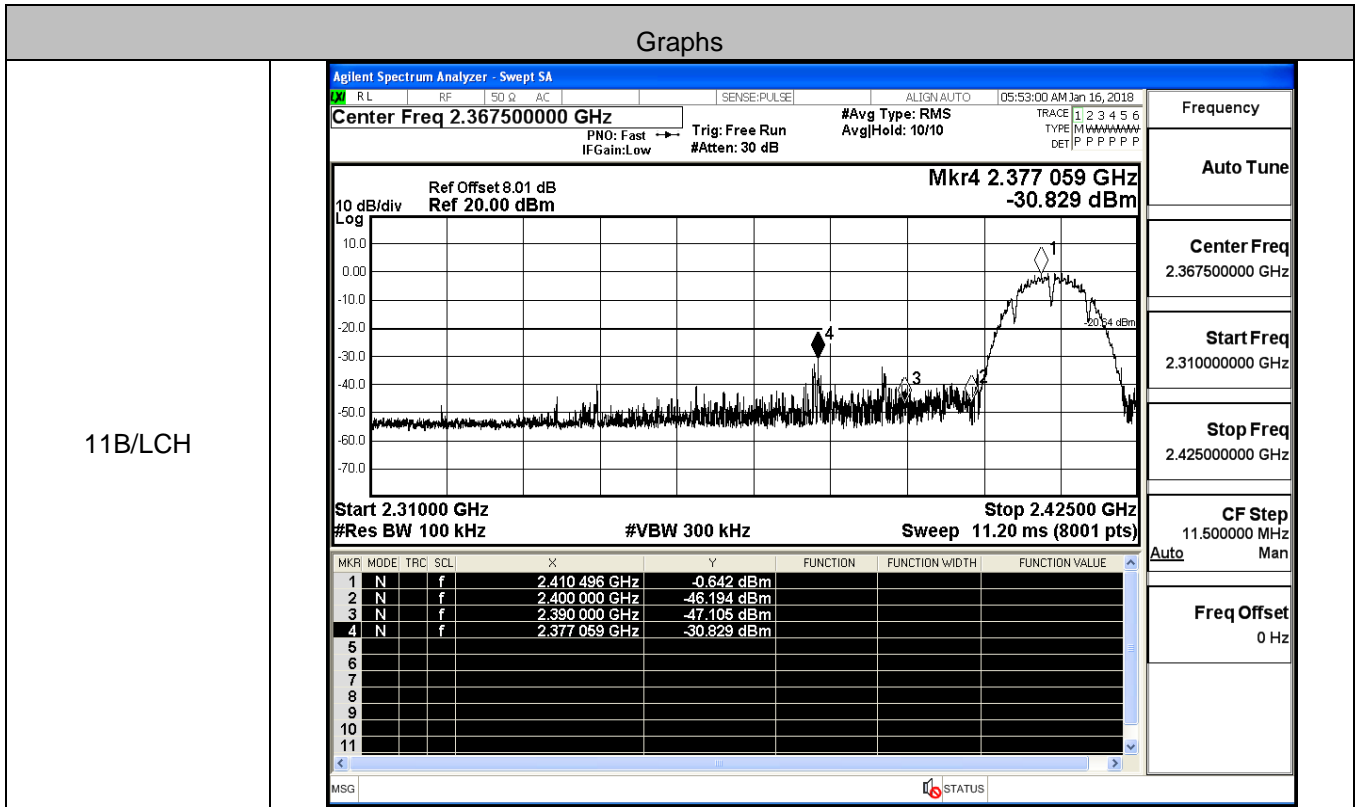


## 2: Band-edge for RF Conducted Emissions

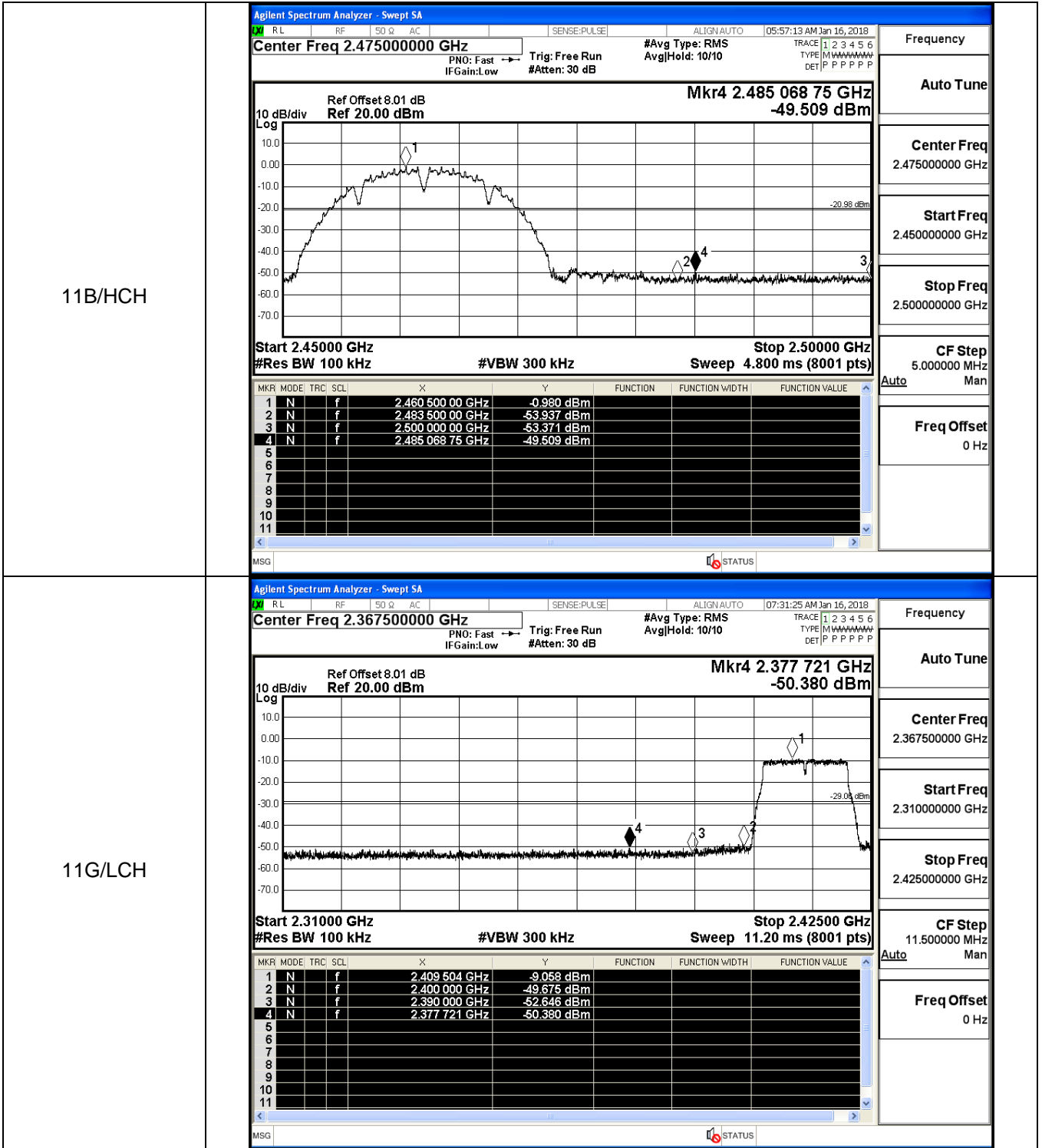
Result Table

| Mode      | Channel | Carrier Power[dBm] | Max.Spurious Level [dBm] | Limit [dBm] | Verdict |
|-----------|---------|--------------------|--------------------------|-------------|---------|
| 11B       | LCH     | -0.642             | -30.829                  | -20.64      | PASS    |
| 11B       | HCH     | -0.980             | -49.509                  | -20.98      | PASS    |
| 11G       | LCH     | -9.058             | -50.380                  | -29.06      | PASS    |
| 11G       | HCH     | -10.062            | -50.196                  | -30.06      | PASS    |
| 11N20SISO | LCH     | -9.573             | -50.187                  | -29.57      | PASS    |
| 11N20SISO | HCH     | -10.041            | -50.055                  | -30.04      | PASS    |
| 11N40SISO | LCH     | -12.149            | -49.768                  | -32.15      | PASS    |
| 11N40SISO | HCH     | -12.348            | -49.184                  | -32.35      | PASS    |

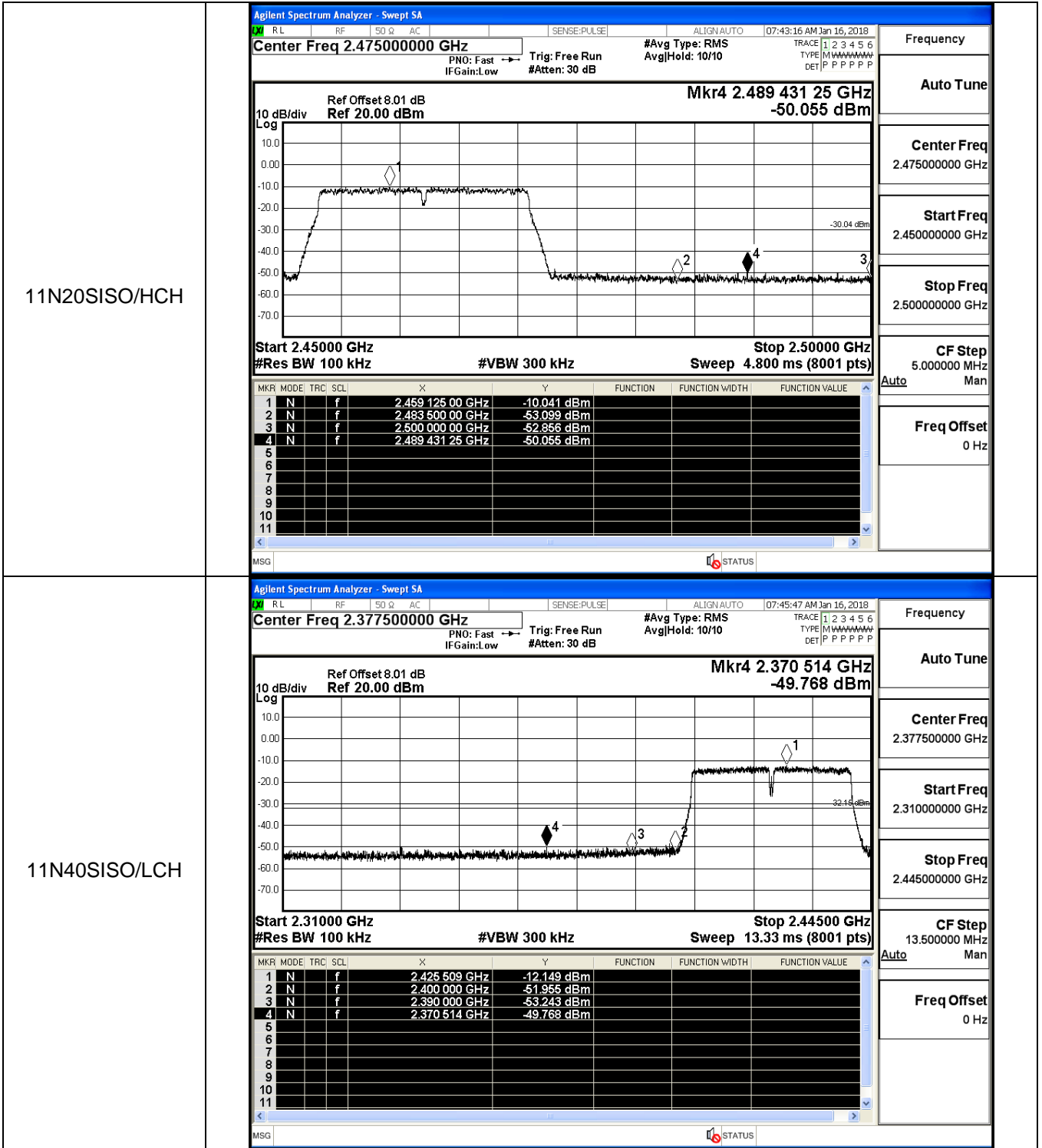
Test Graph

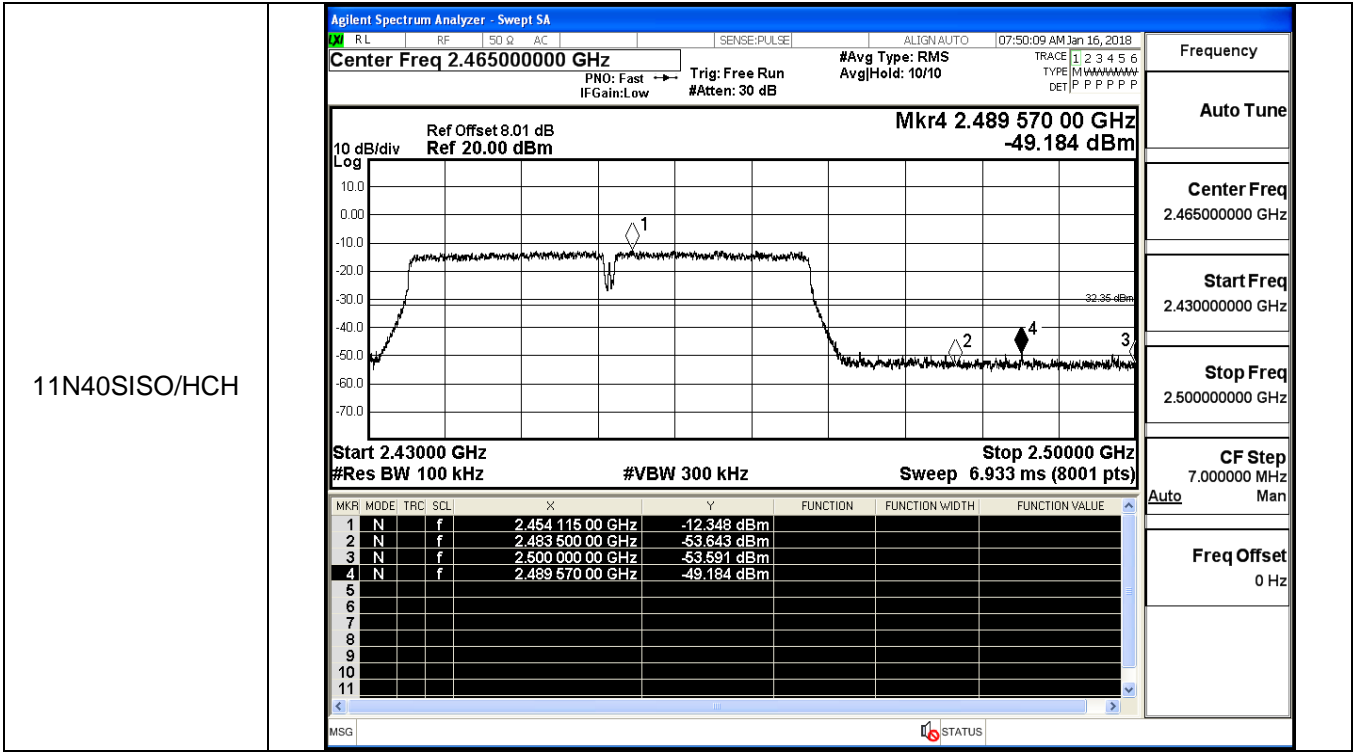






| <p>11G/HCH</p>       | <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.47500000 GHz</p> <p>Ref Offset 8.01 dB Ref 20.00 dBm</p> <p>Mkr4 2.497 900 00 GHz -50.196 dBm</p> <p>Start 2.45000 GHz Stop 2.50000 GHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 4.800 ms (8001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>f</td> <td></td> <td>2.463 656 25 GHz</td> <td>-10.062 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>f</td> <td></td> <td>2.483 500 00 GHz</td> <td>-53.461 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>f</td> <td></td> <td>2.500 000 00 GHz</td> <td>-52.821 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>N</td> <td>f</td> <td></td> <td>2.497 900 00 GHz</td> <td>-50.196 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | MKR | MODE | TRC              | SCL         | X        | Y              | FUNCTION       | FUNCTION WIDTH | FUNCTION VALUE | 1 | N | f |  | 2.463 656 25 GHz | -10.062 dBm |  |  |  | 2 | N | f |  | 2.483 500 00 GHz | -53.461 dBm |  |  |  | 3 | N | f |  | 2.500 000 00 GHz | -52.821 dBm |  |  |  | 4 | N | f |  | 2.497 900 00 GHz | -50.196 dBm |  |  |  |
|----------------------|--|-----|------|------------------|-------------|----------|----------------|----------------|----------------|----------------|---|---|---|--|------------------|-------------|--|--|--|---|---|---|--|------------------|-------------|--|--|--|---|---|---|--|------------------|-------------|--|--|--|---|---|---|--|------------------|-------------|--|--|--|
| MKR                  | MODE   | TRC | SCL  | X                | Y           | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |                |                |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |
| 1                    | N  | f   |      | 2.463 656 25 GHz | -10.062 dBm |          |                |                |                |                |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |
| 2                    | N  | f   |      | 2.483 500 00 GHz | -53.461 dBm |          |                |                |                |                |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |
| 3                    | N  | f   |      | 2.500 000 00 GHz | -52.821 dBm |          |                |                |                |                |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |
| 4                    | N  | f   |      | 2.497 900 00 GHz | -50.196 dBm |          |                |                |                |                |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |
| <p>11N20SISO/LCH</p> | <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.36750000 GHz</p> <p>Ref Offset 8.01 dB Ref 20.00 dBm</p> <p>Mkr4 2.317 216 GHz -50.187 dBm</p> <p>Start 2.31000 GHz Stop 2.42500 GHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 11.20 ms (8001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>f</td> <td></td> <td>2.409 144 GHz</td> <td>-9.573 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>f</td> <td></td> <td>2.400 000 GHz</td> <td>-53.099 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>f</td> <td></td> <td>2.390 000 GHz</td> <td>-54.070 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>N</td> <td>f</td> <td></td> <td>2.317 216 GHz</td> <td>-50.187 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>                 | MKR | MODE | TRC              | SCL         | X        | Y              | FUNCTION       | FUNCTION WIDTH | FUNCTION VALUE | 1 | N | f |  | 2.409 144 GHz    | -9.573 dBm  |  |  |  | 2 | N | f |  | 2.400 000 GHz    | -53.099 dBm |  |  |  | 3 | N | f |  | 2.390 000 GHz    | -54.070 dBm |  |  |  | 4 | N | f |  | 2.317 216 GHz    | -50.187 dBm |  |  |  |
| MKR                  | MODE   | TRC | SCL  | X                | Y           | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |                |                |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |
| 1                    | N  | f   |      | 2.409 144 GHz    | -9.573 dBm  |          |                |                |                |                |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |
| 2                    | N  | f   |      | 2.400 000 GHz    | -53.099 dBm |          |                |                |                |                |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |
| 3                    | N  | f   |      | 2.390 000 GHz    | -54.070 dBm |          |                |                |                |                |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |
| 4                    | N  | f   |      | 2.317 216 GHz    | -50.187 dBm |          |                |                |                |                |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |   |   |   |  |                  |             |  |  |  |



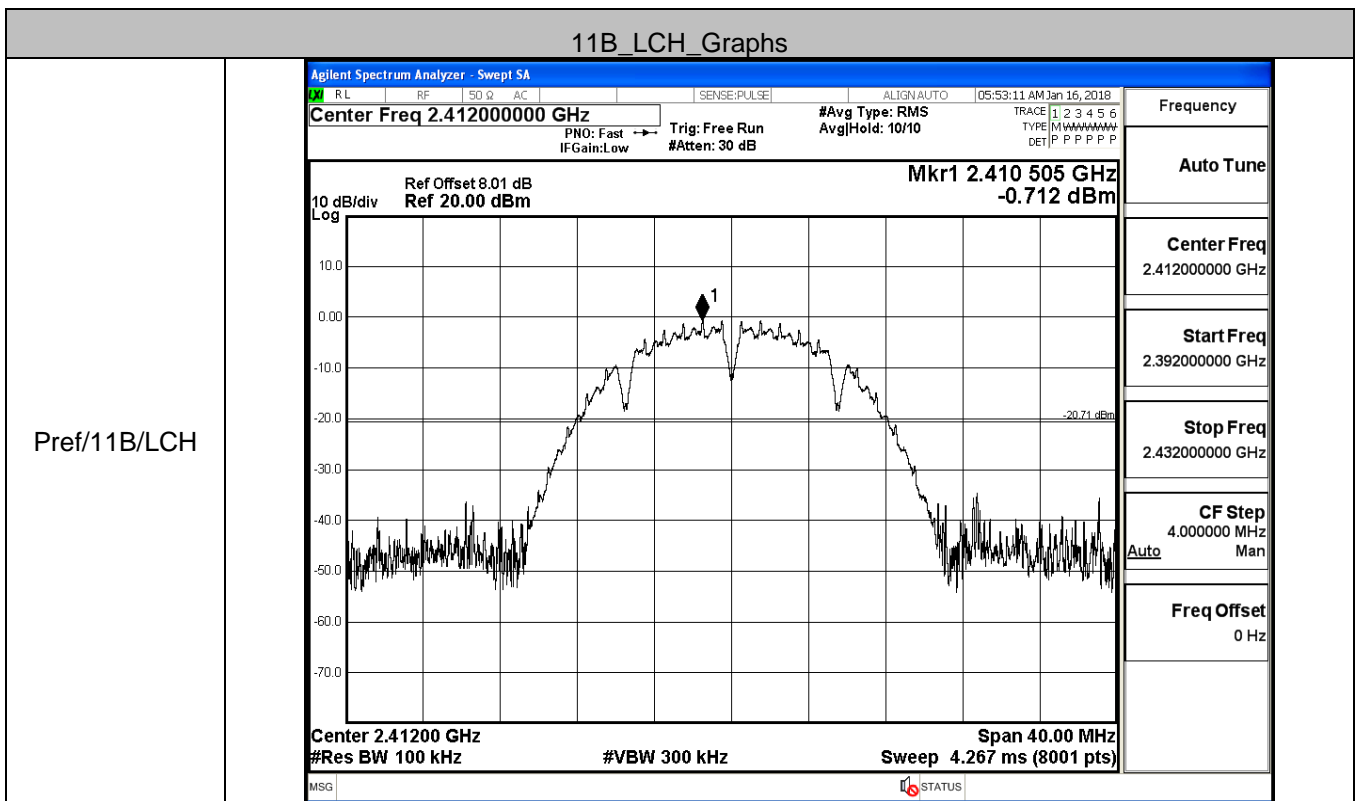


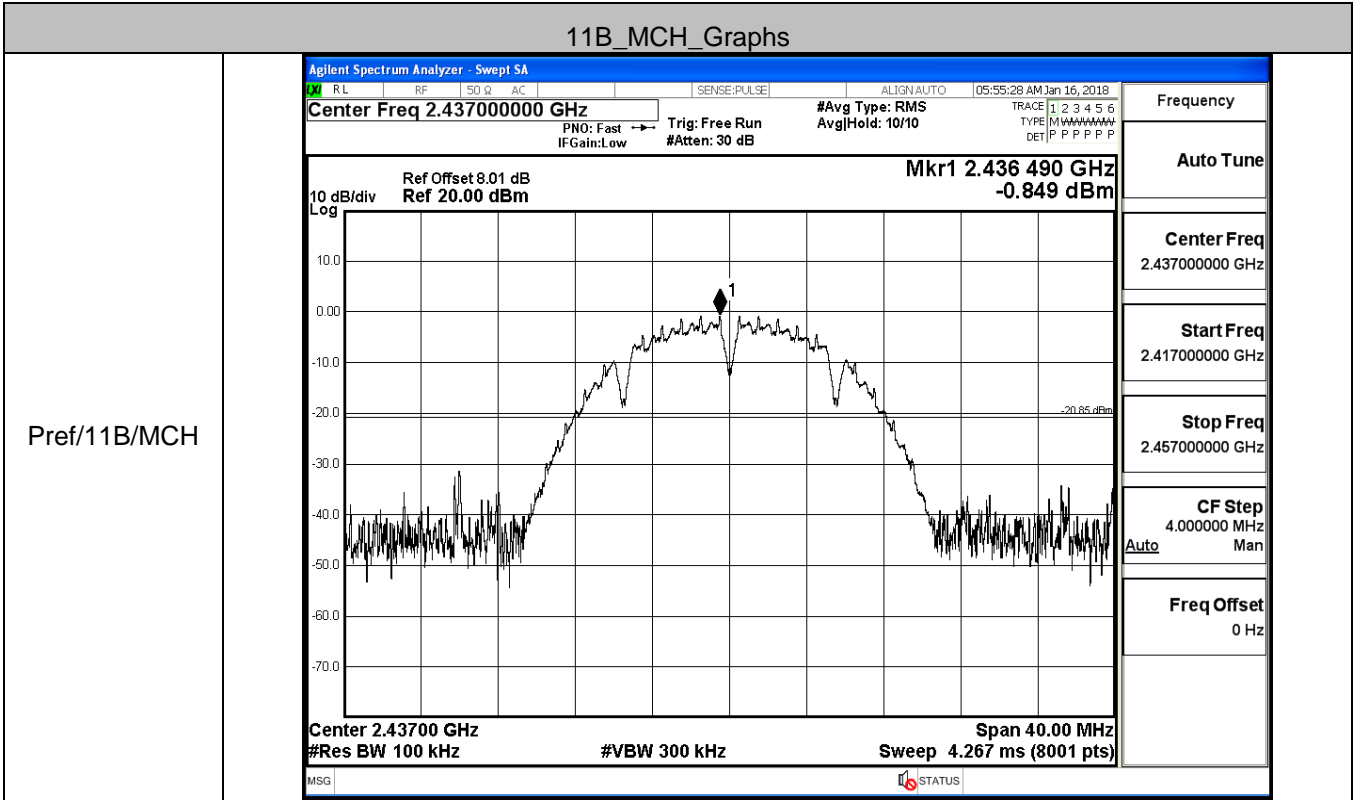
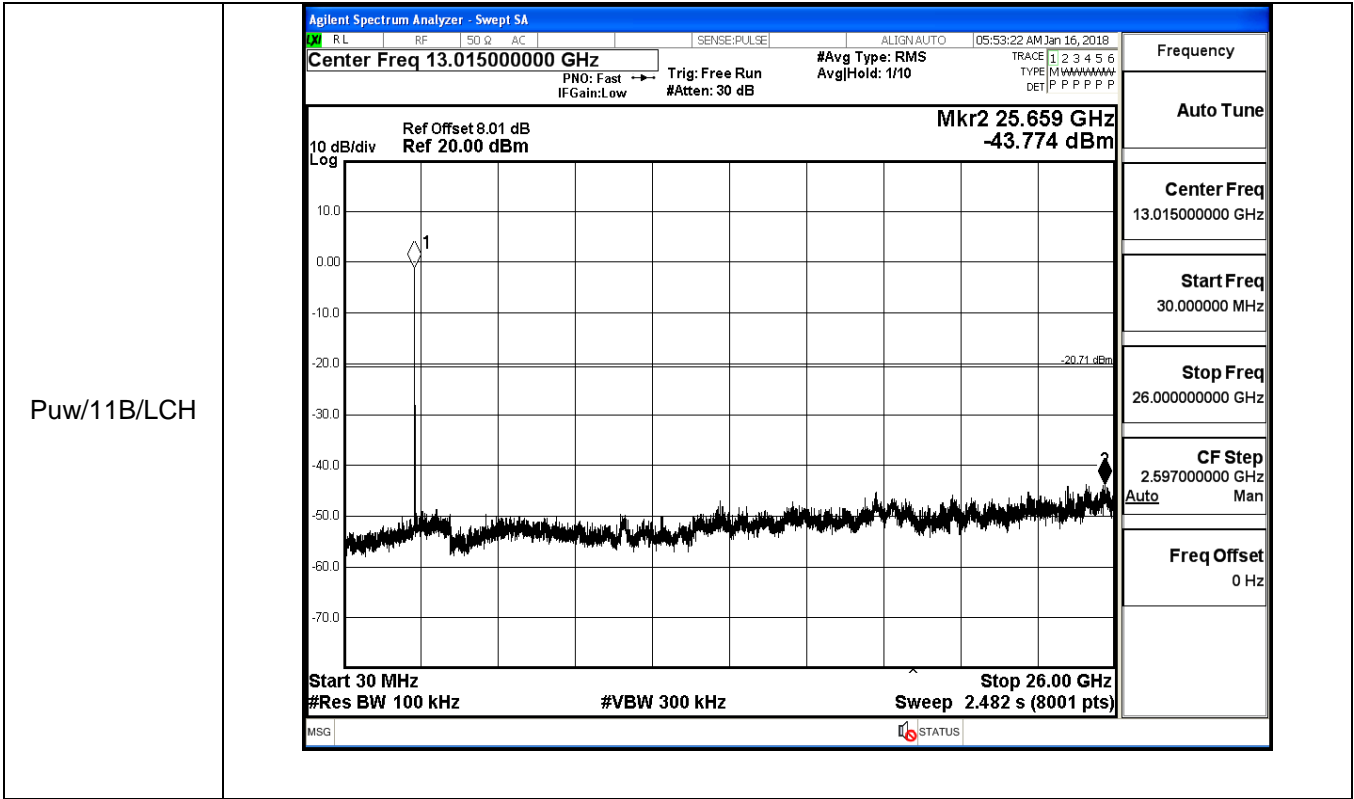
### 3: RF Conducted Spurious Emissions

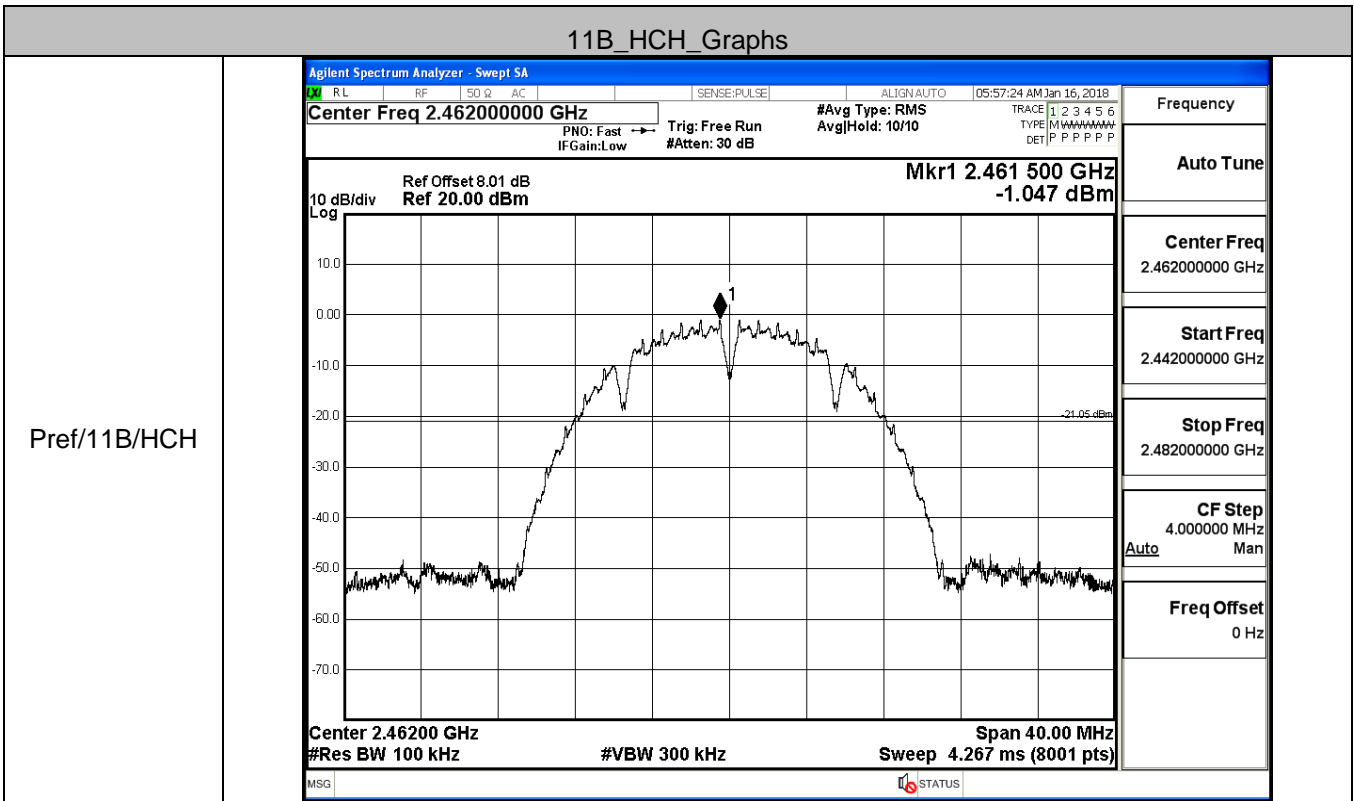
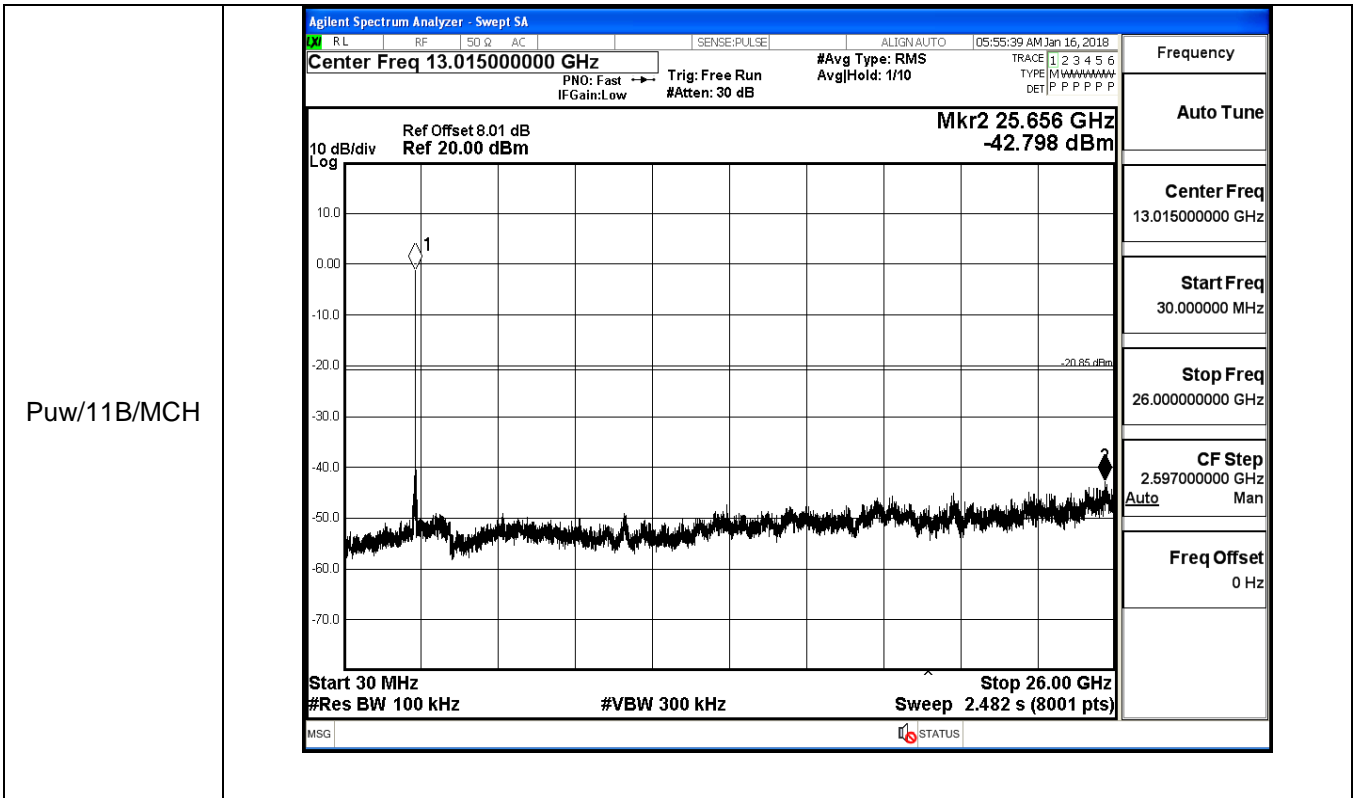
Result Table

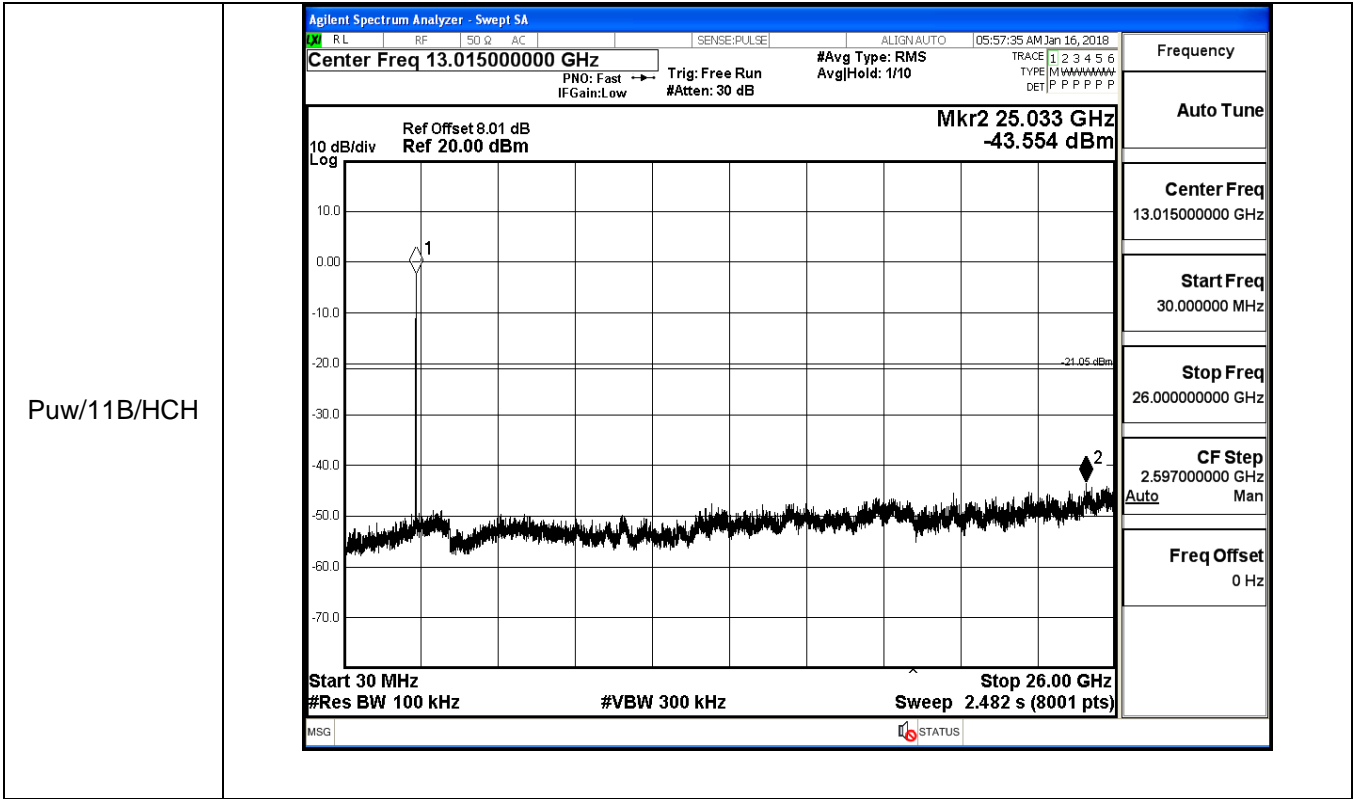
| Mode      | Channel | Pref [dBm] | Puw[dBm] | Verdict |
|-----------|---------|------------|----------|---------|
| 11B       | LCH     | -0.712     | <Limit   | PASS    |
| 11B       | MCH     | -0.849     | <Limit   | PASS    |
| 11B       | HCH     | -1.047     | <Limit   | PASS    |
| 11G       | LCH     | -9.033     | <Limit   | PASS    |
| 11G       | MCH     | -9.942     | <Limit   | PASS    |
| 11G       | HCH     | -10.054    | <Limit   | PASS    |
| 11N20SISO | LCH     | -9.725     | <Limit   | PASS    |
| 11N20SISO | MCH     | -9.794     | <Limit   | PASS    |
| 11N20SISO | HCH     | -9.721     | <Limit   | PASS    |
| 11N40SISO | LCH     | -12.598    | <Limit   | PASS    |
| 11N40SISO | MCH     | -12.353    | <Limit   | PASS    |
| 11N40SISO | HCH     | -12.166    | <Limit   | PASS    |

Test Graph

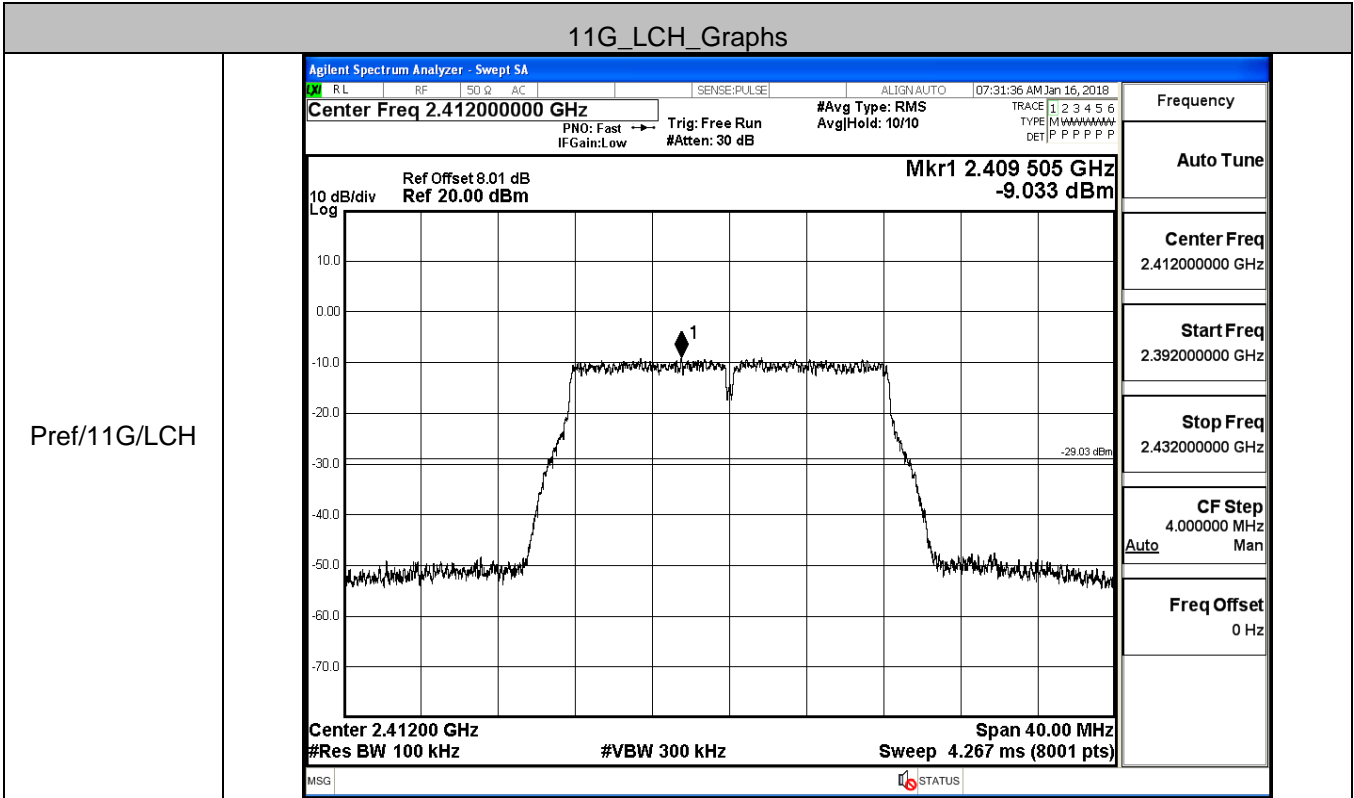




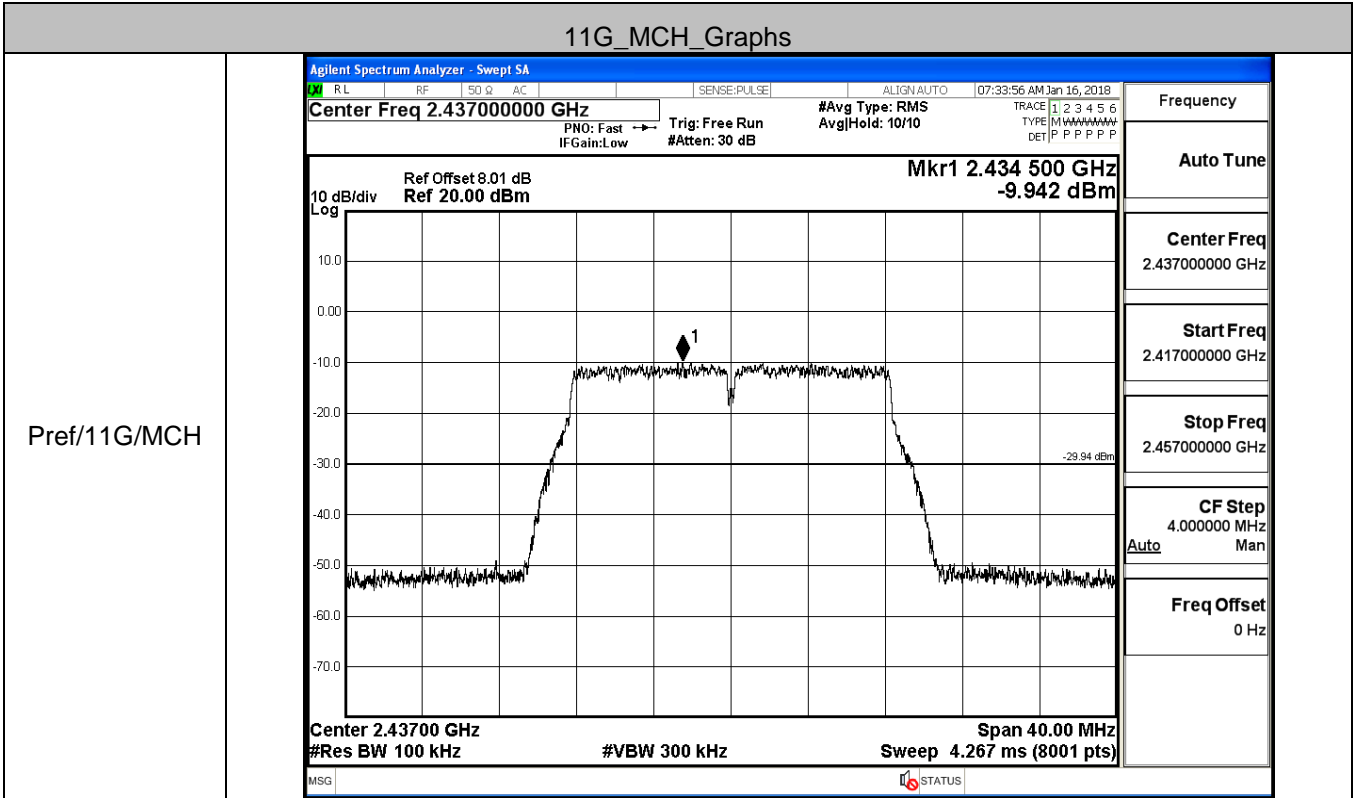
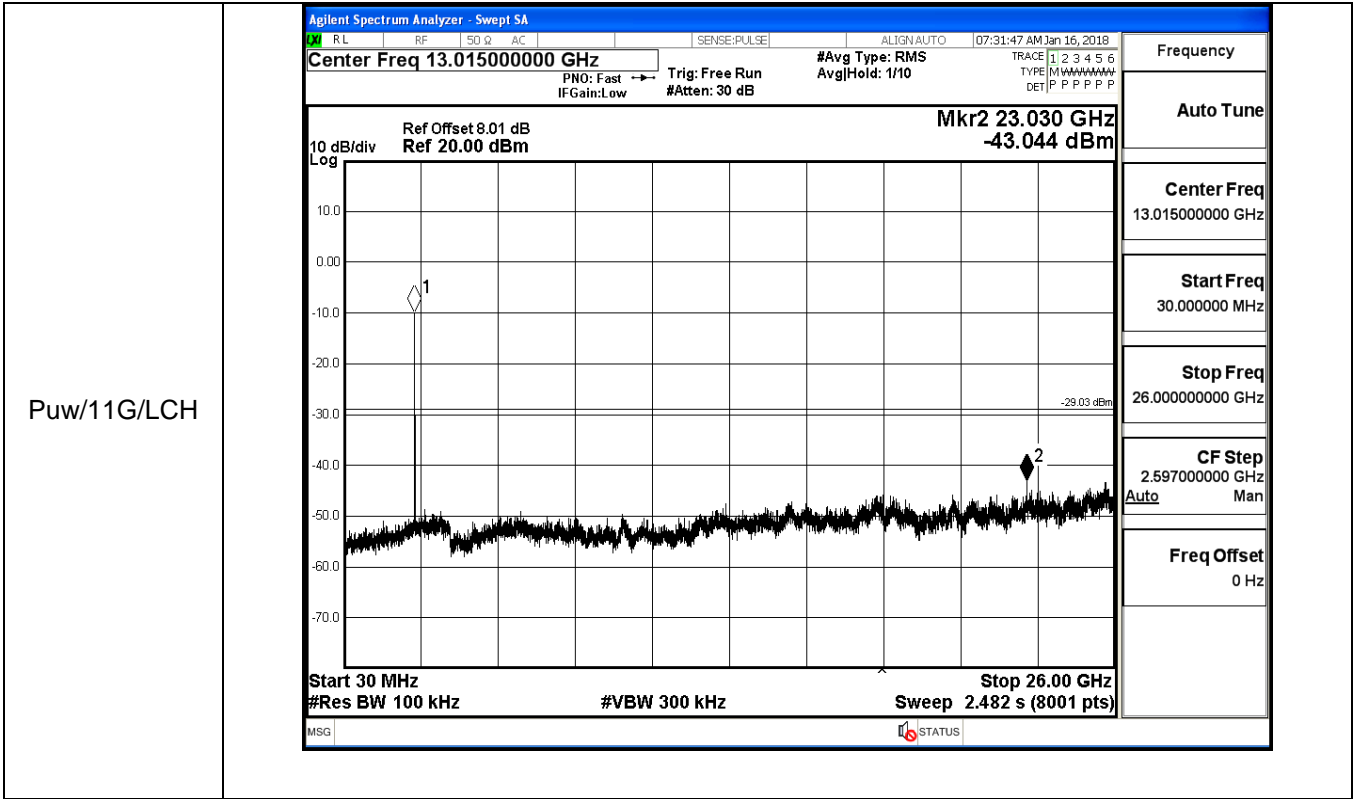


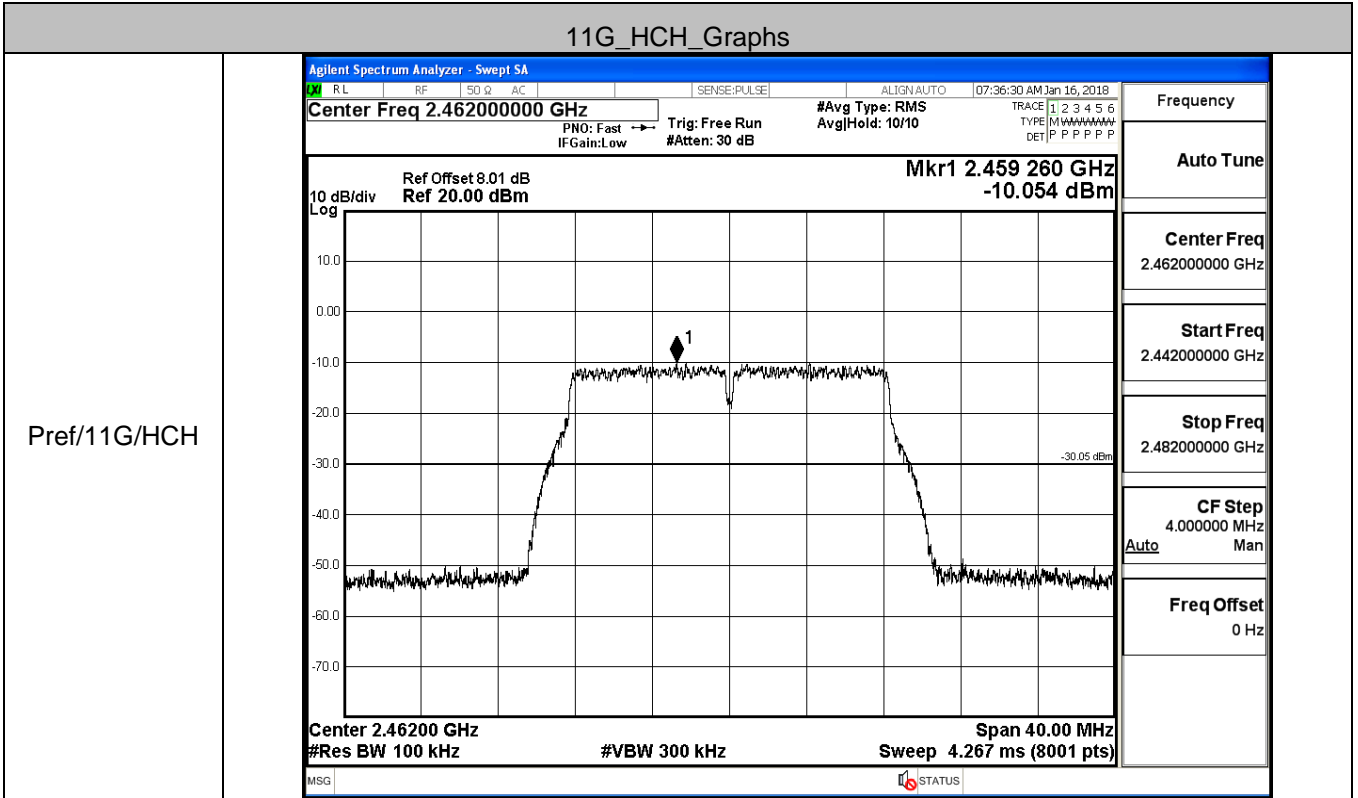
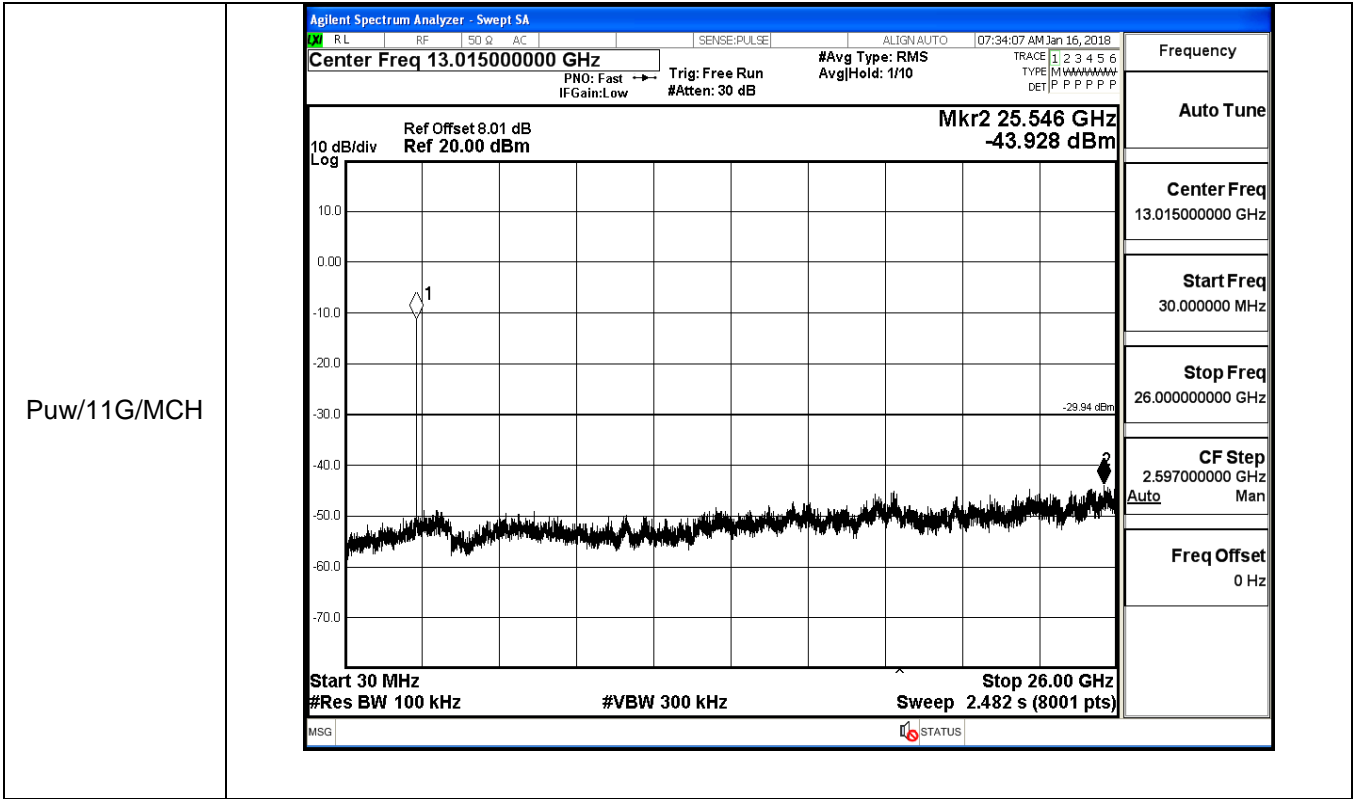


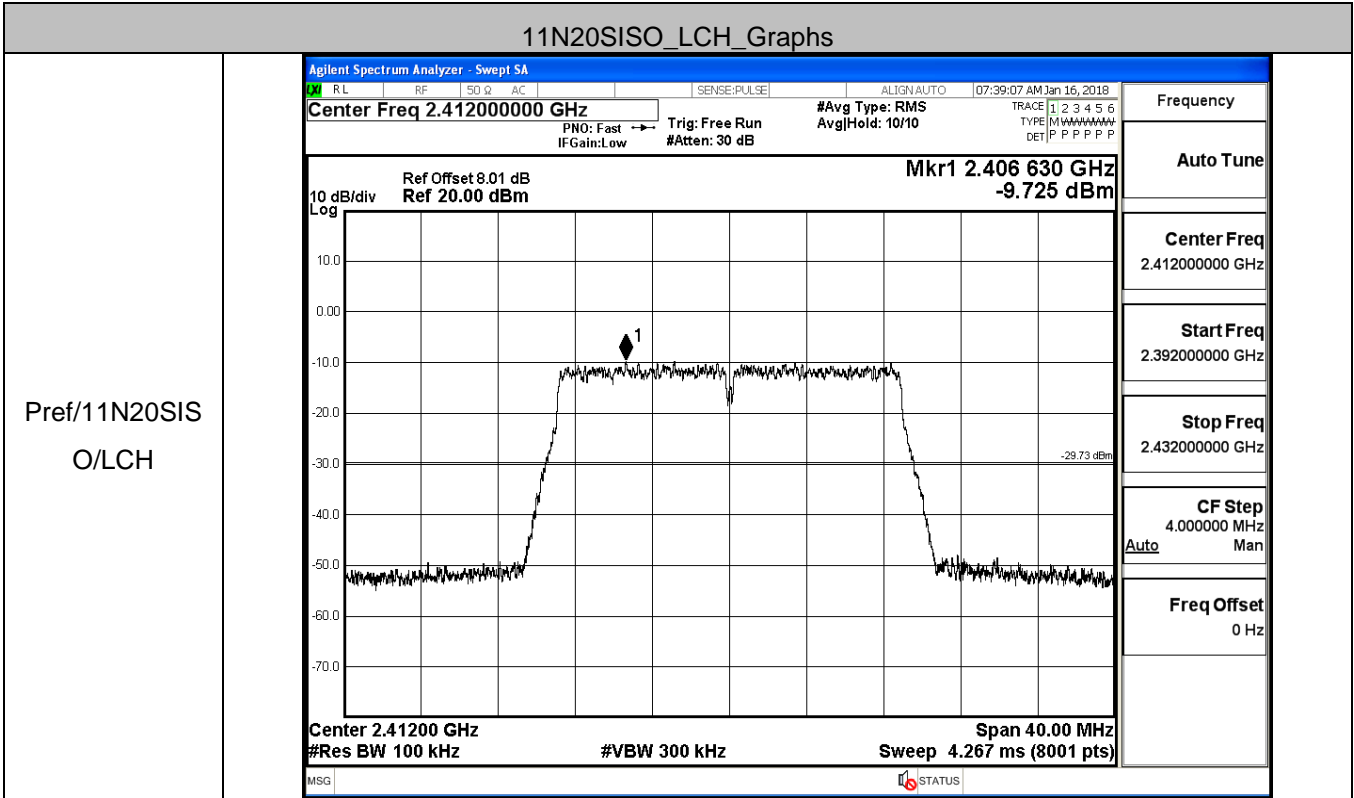
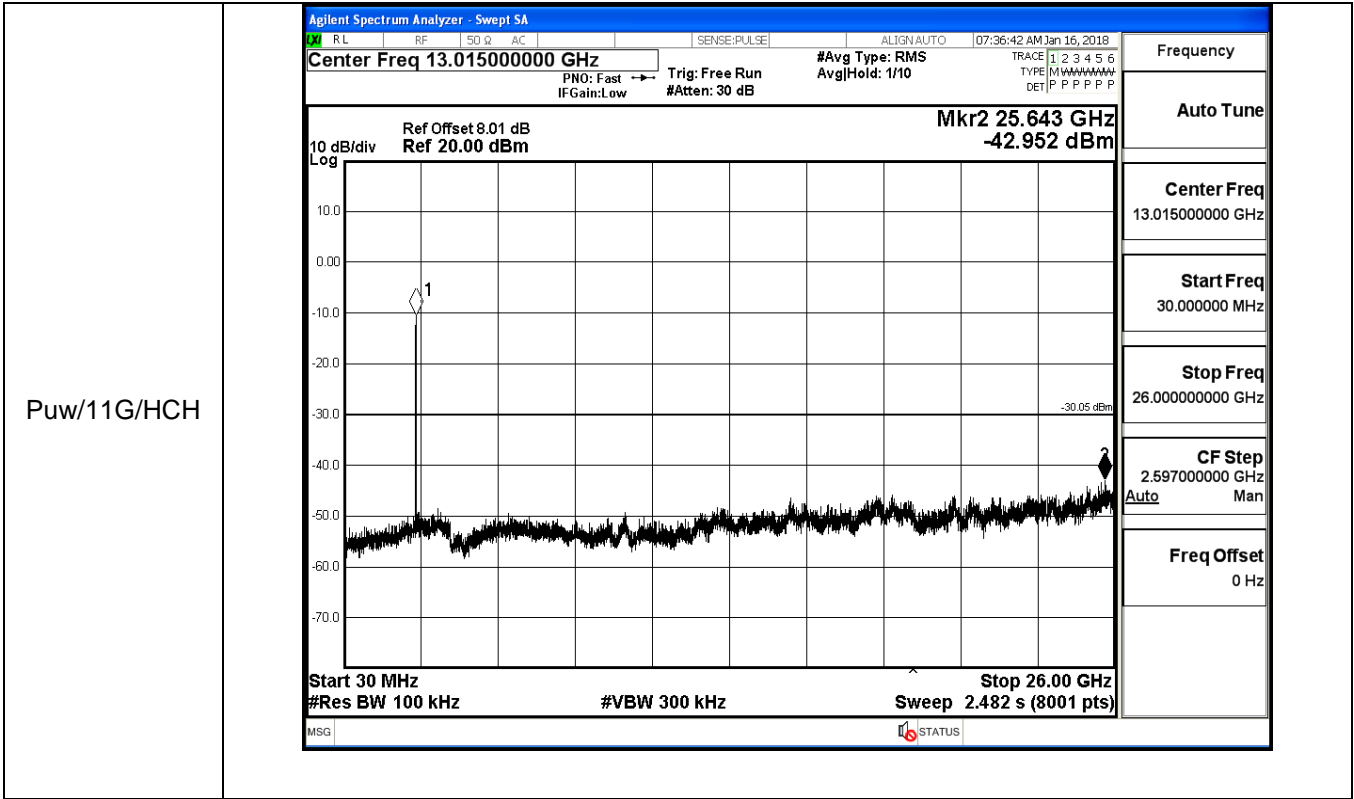
11G\_LCH\_Graphs

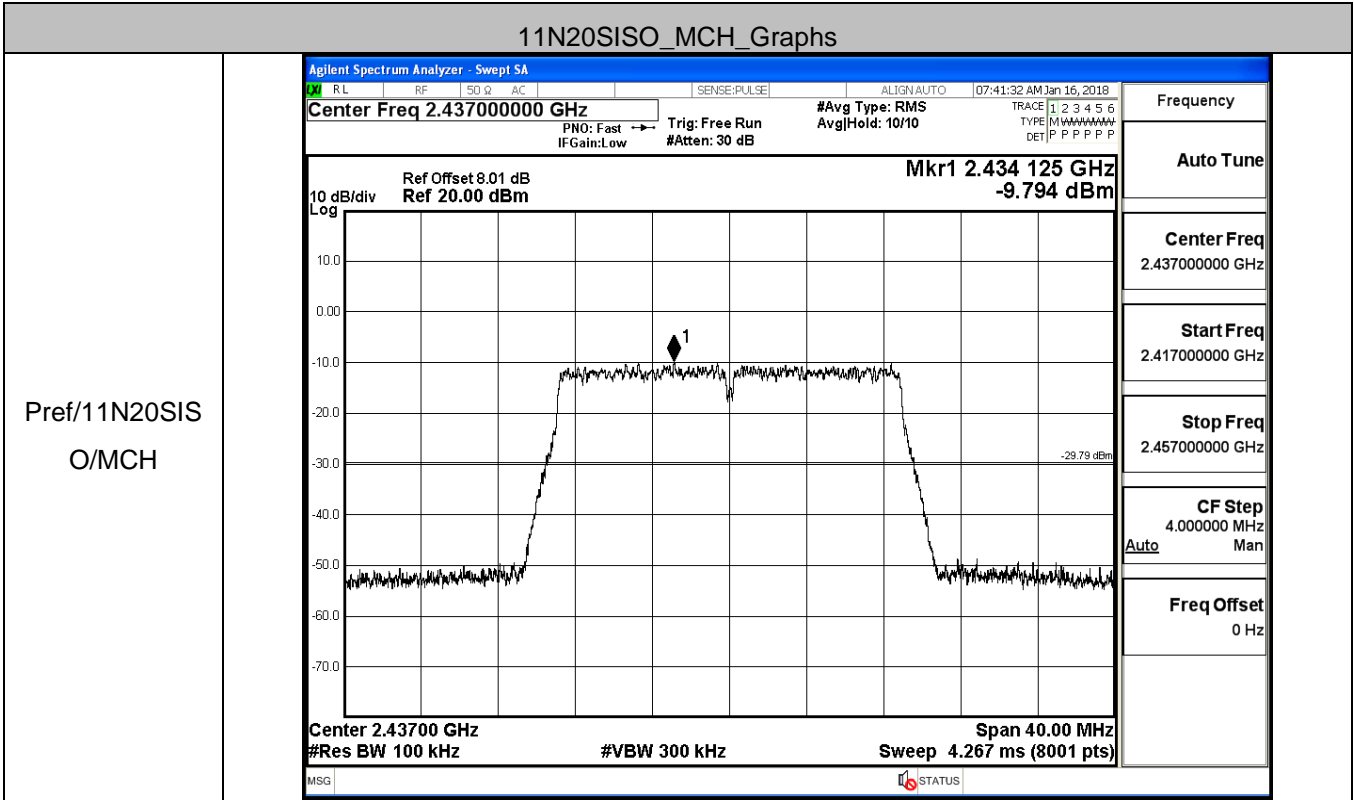
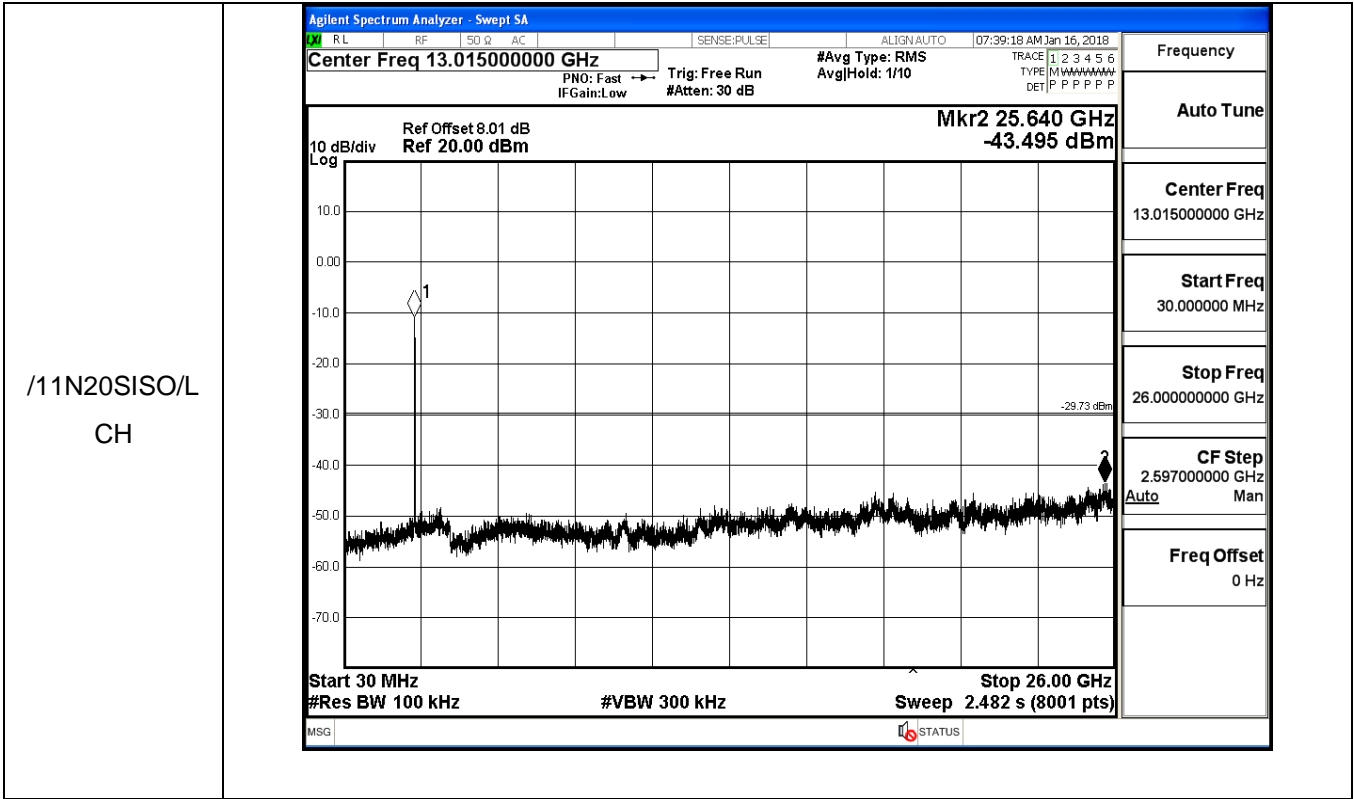


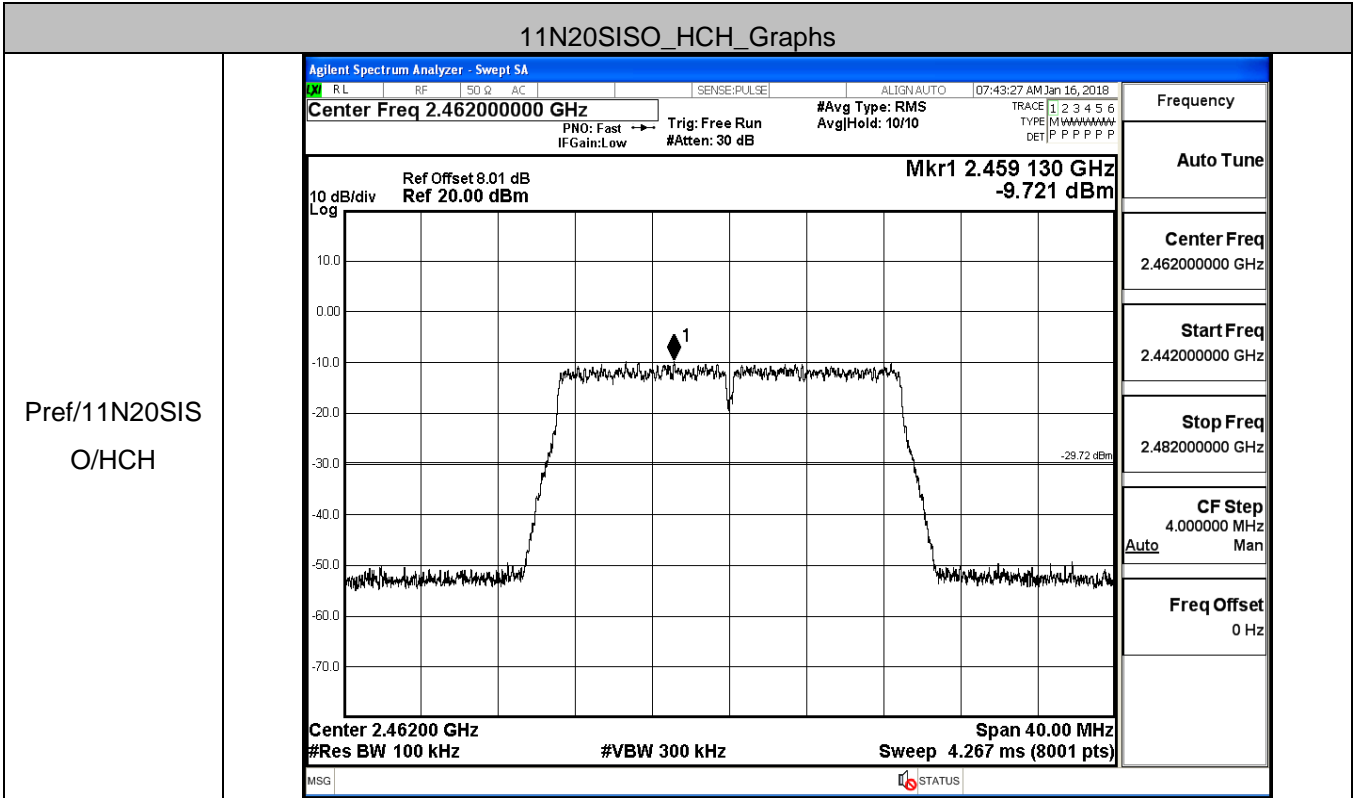
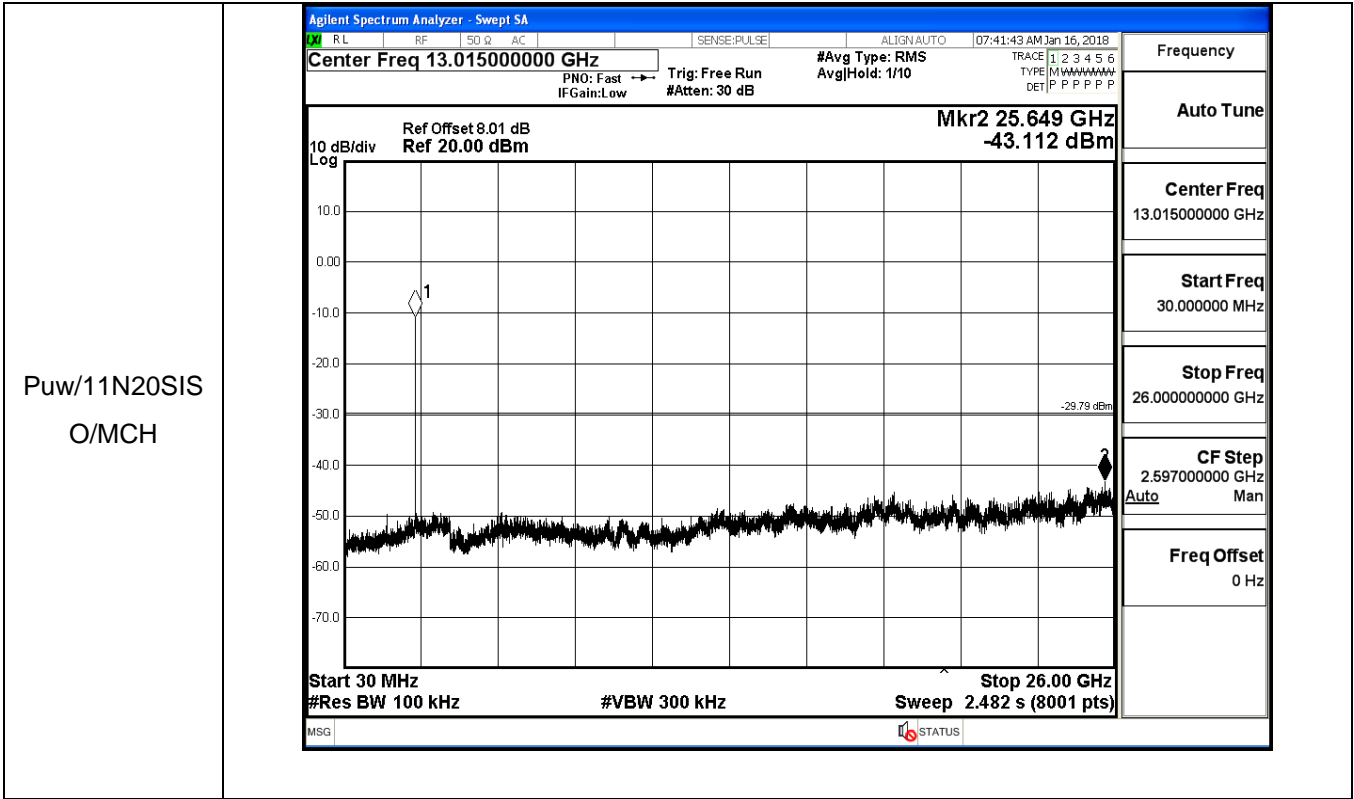


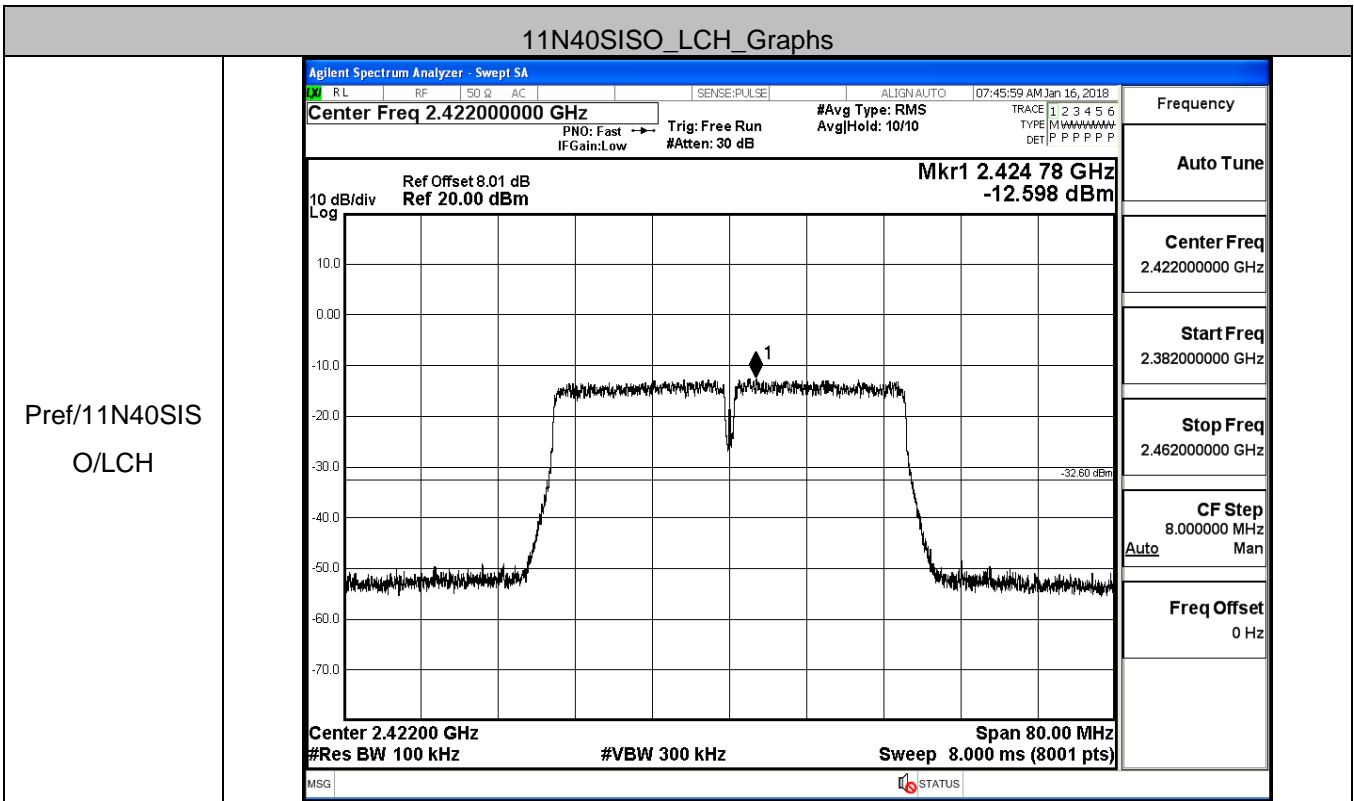
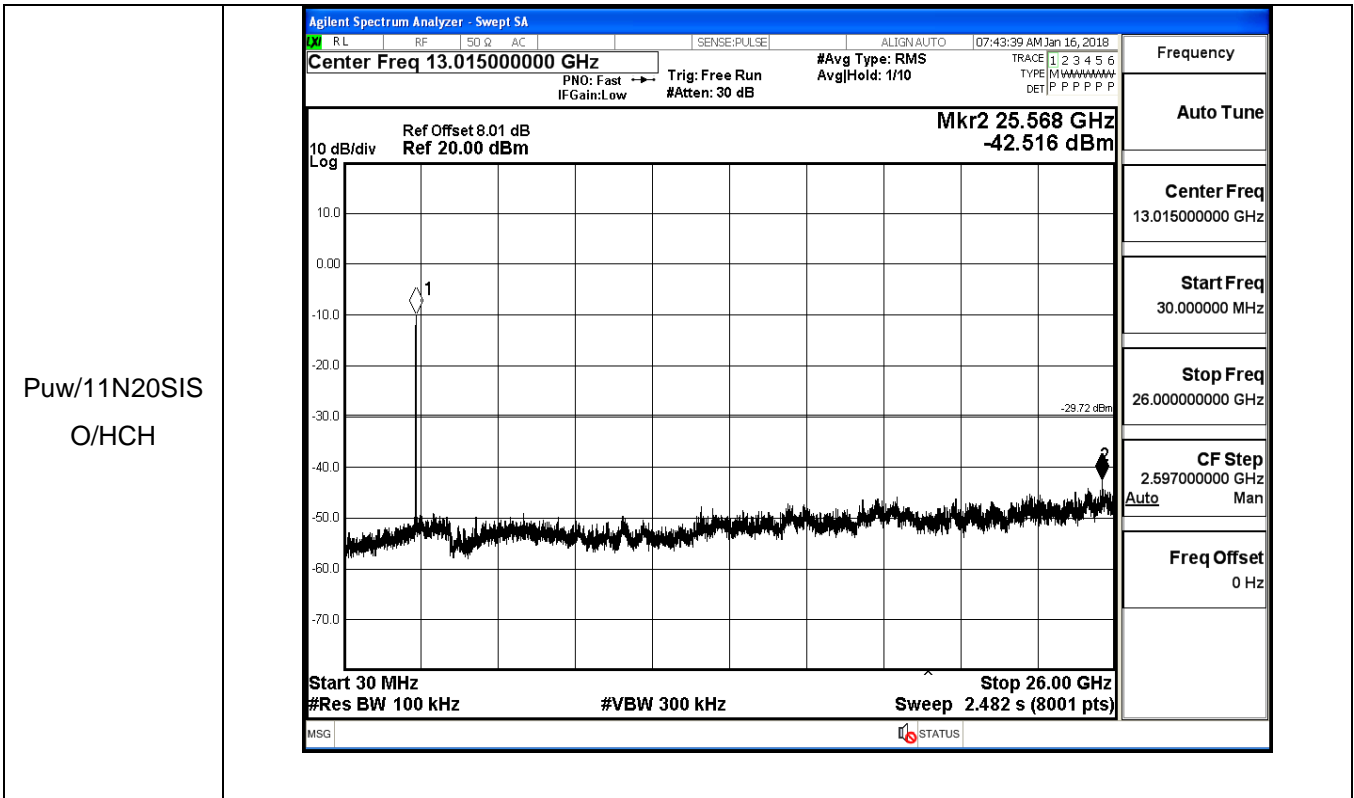


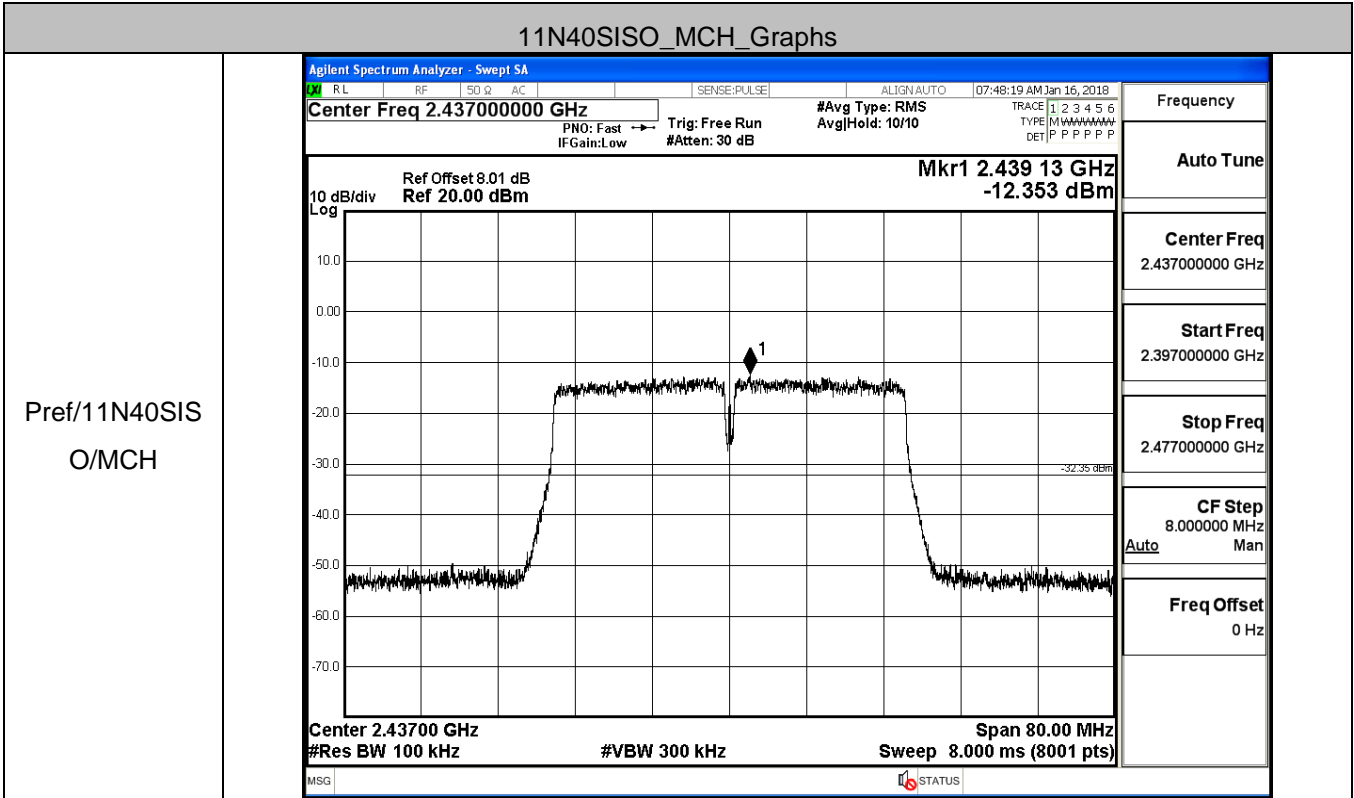
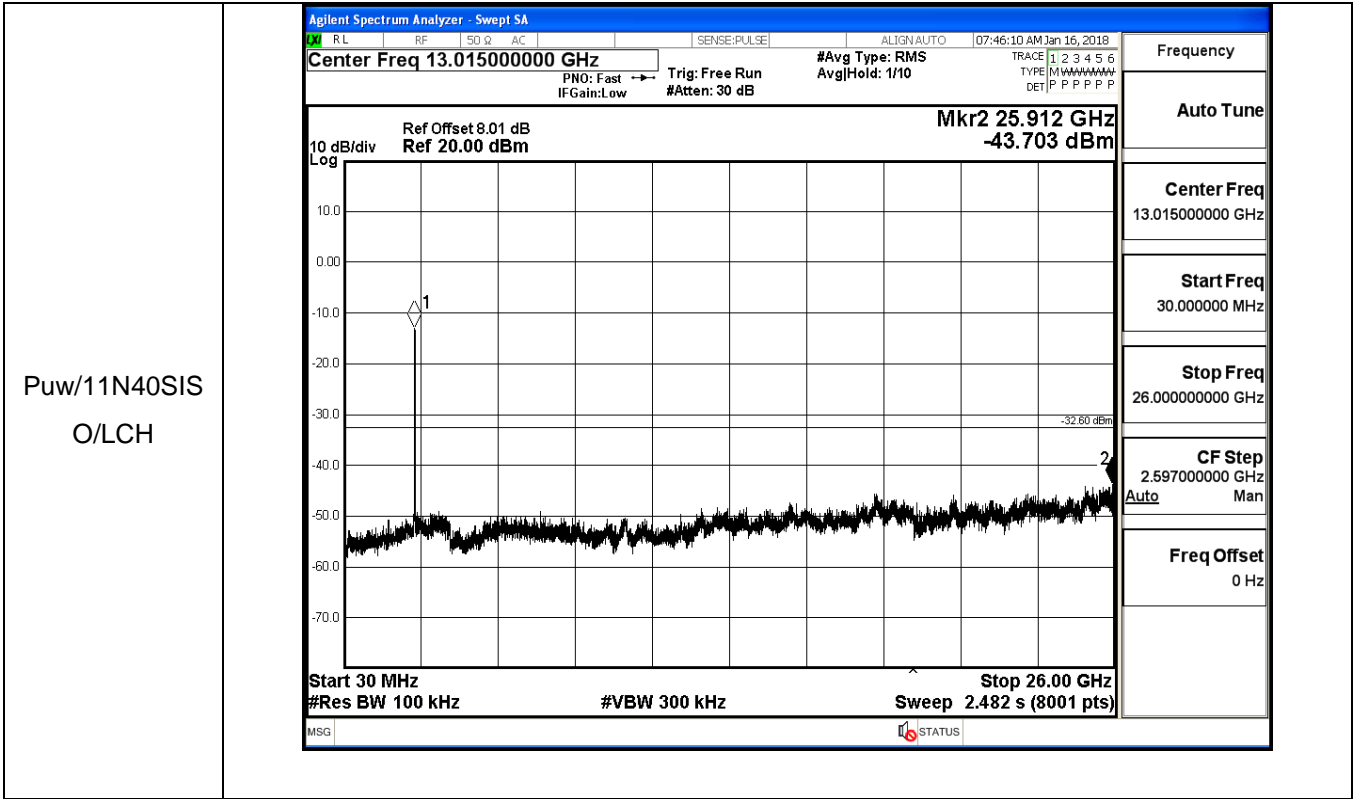


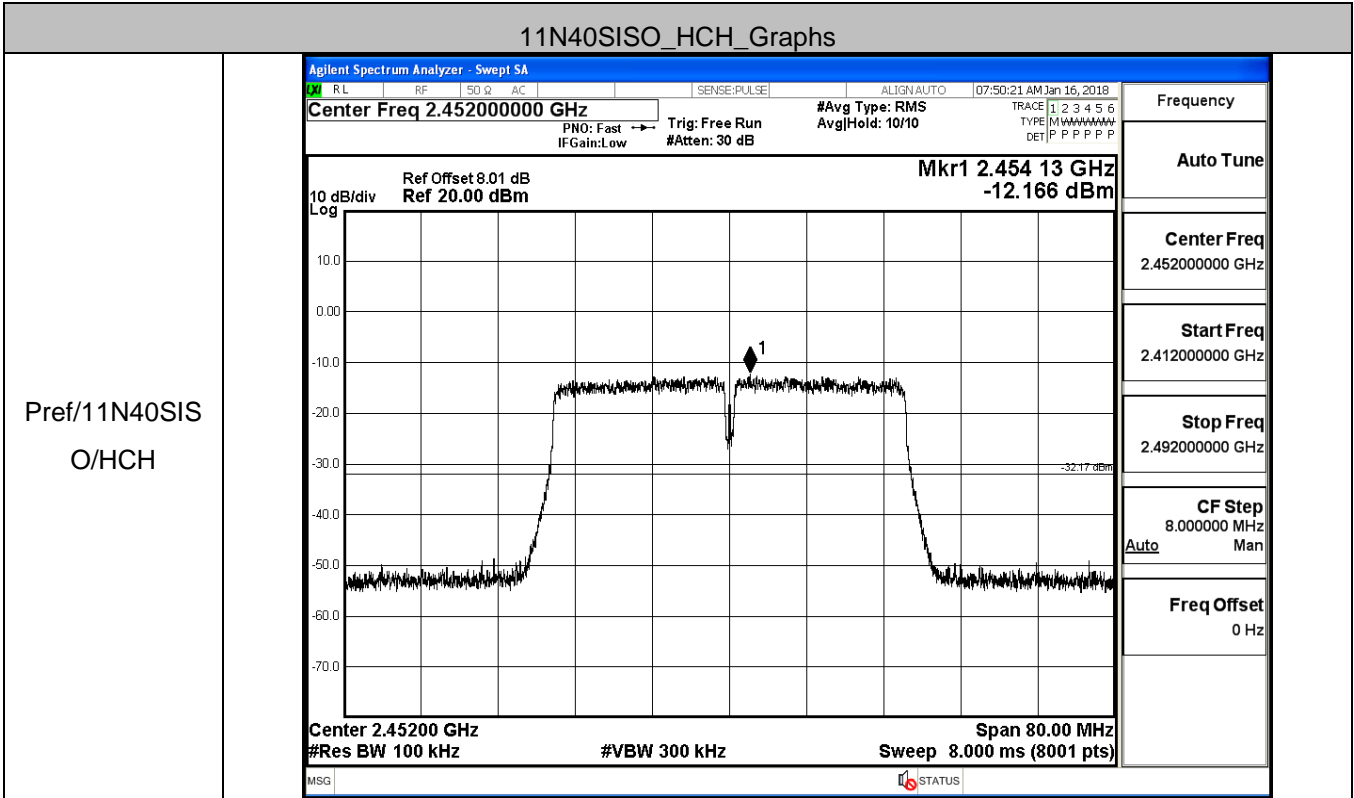
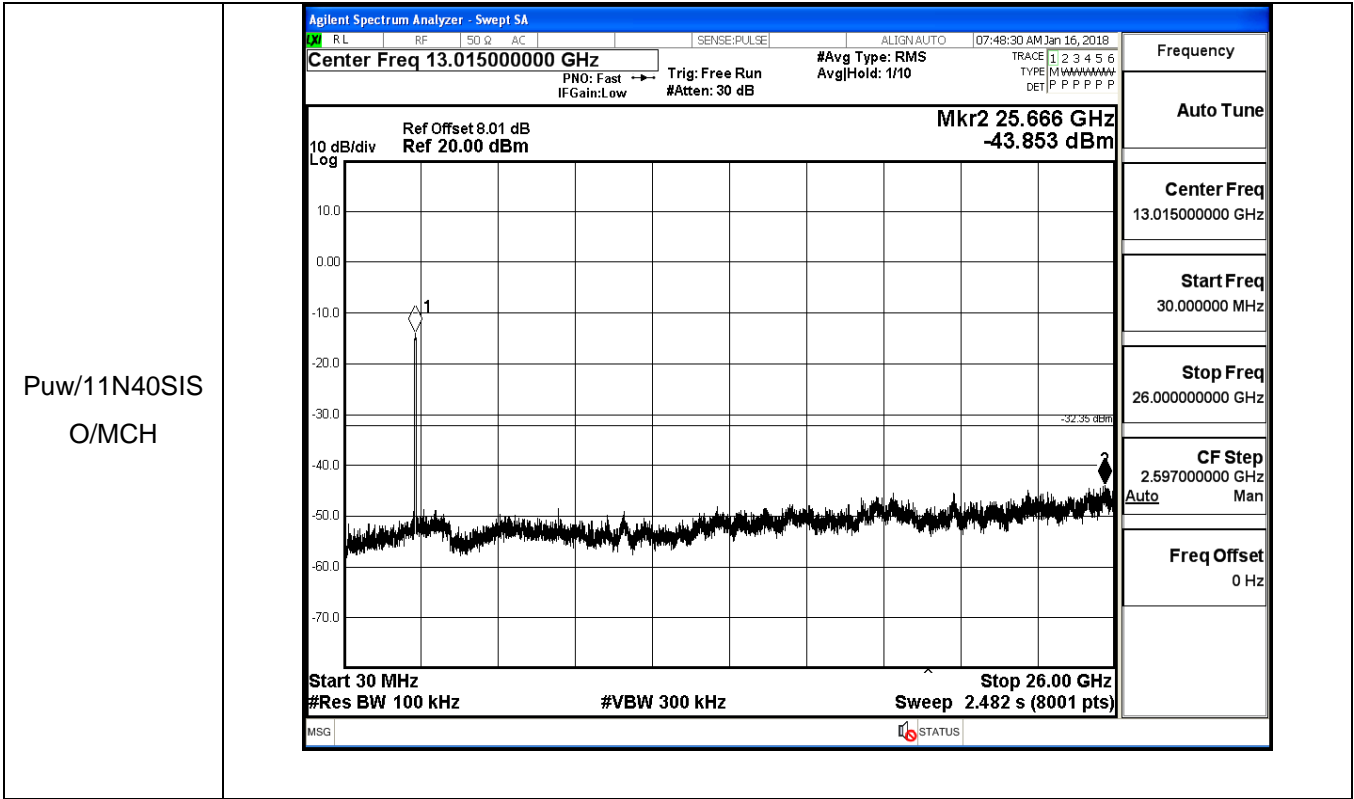




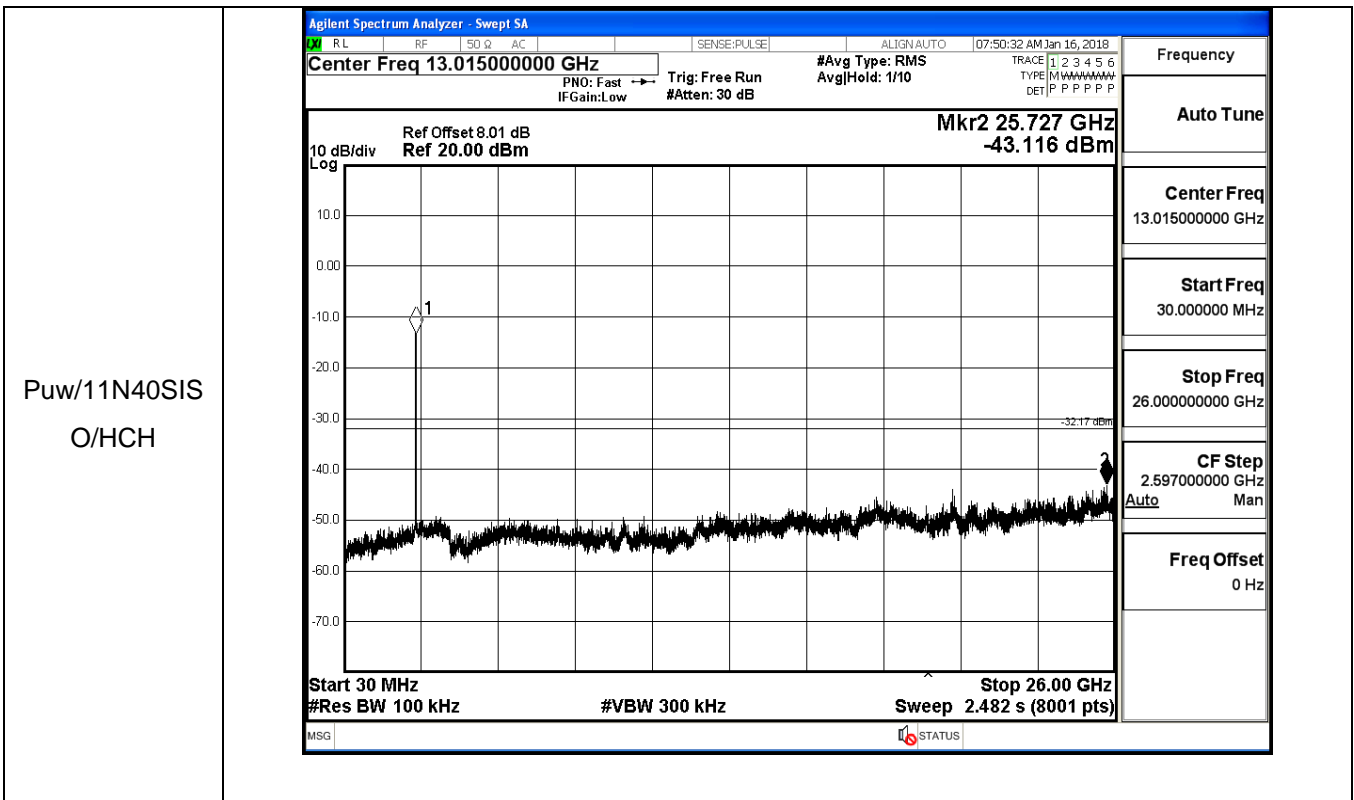










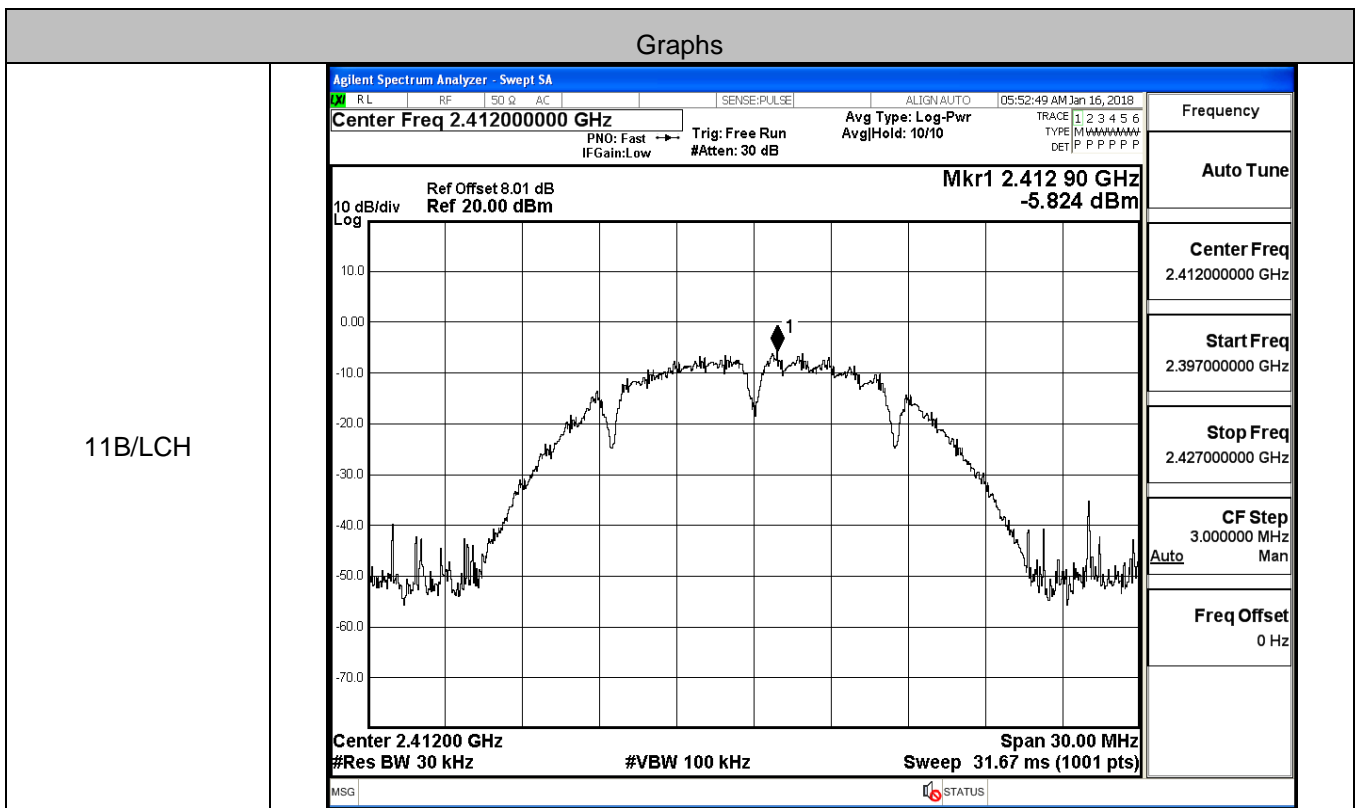


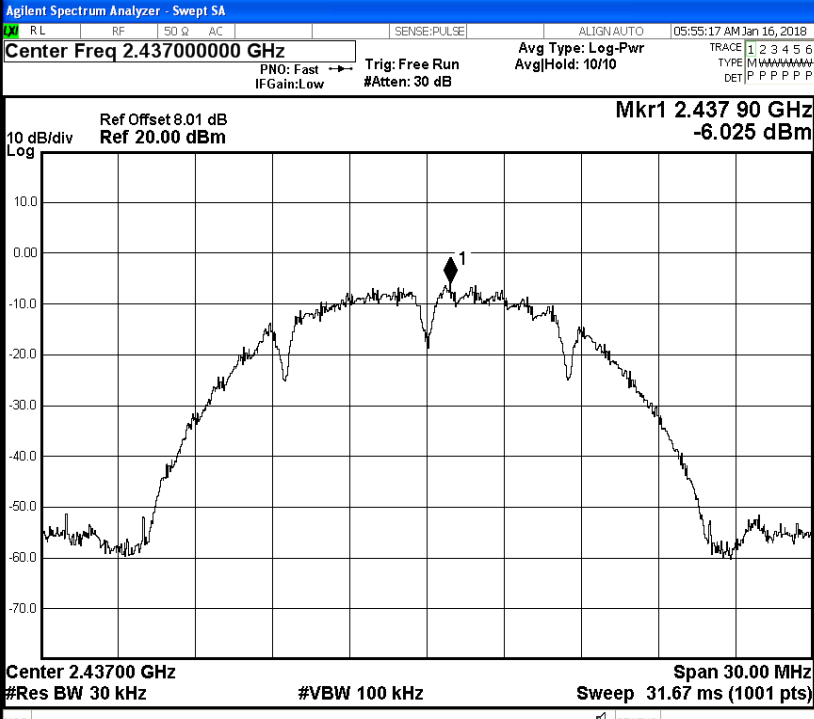
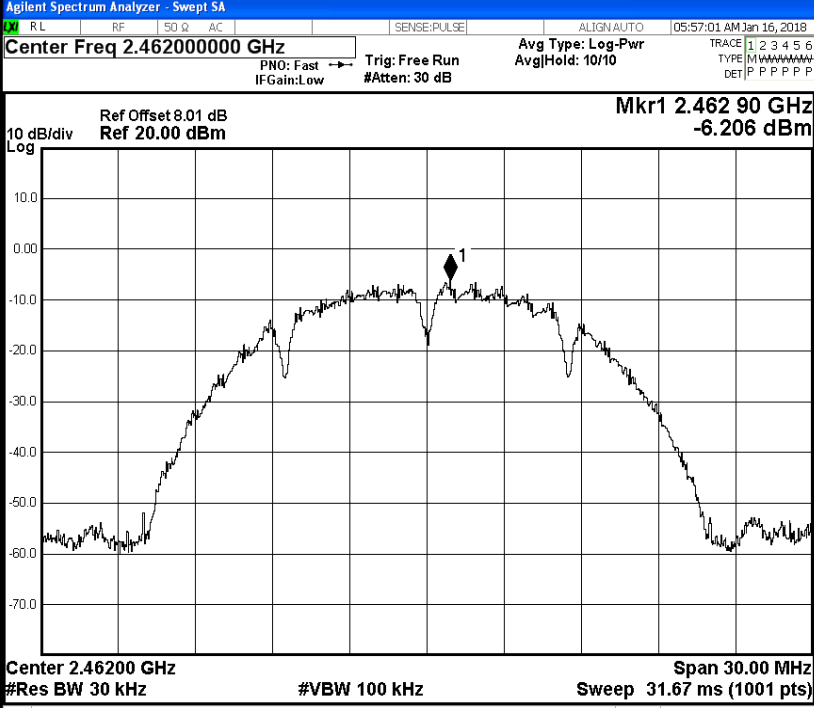
## 4: Maximum Power Spectral Density

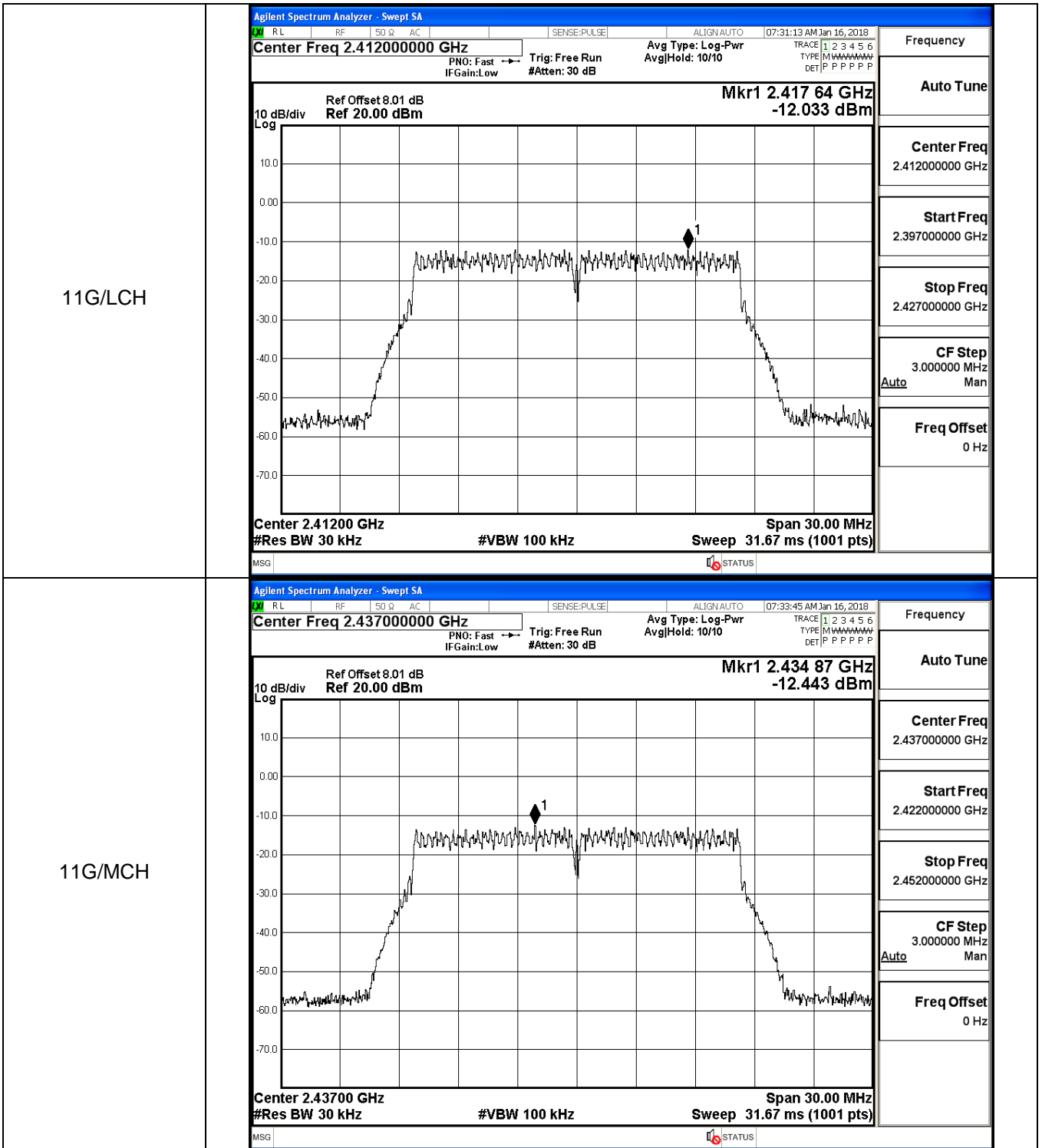
Result Table

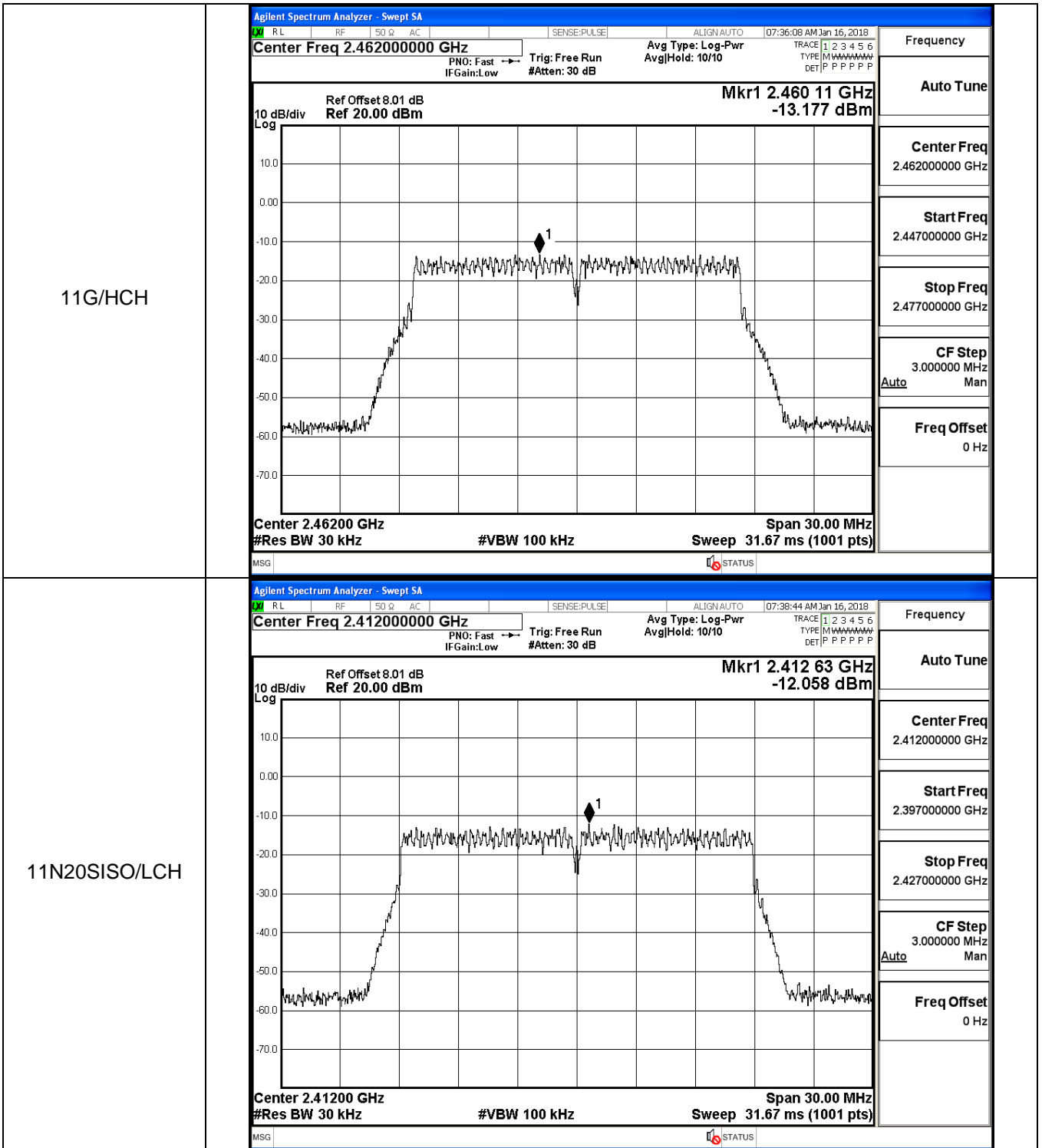
| Mode      | Channel | Meas.Level [30KHz/dBm] | Verdict |
|-----------|---------|------------------------|---------|
| 11B       | LCH     | -5.824                 | PASS    |
| 11B       | MCH     | -6.025                 | PASS    |
| 11B       | HCH     | -6.206                 | PASS    |
| 11G       | LCH     | -12.033                | PASS    |
| 11G       | MCH     | -12.443                | PASS    |
| 11G       | HCH     | -13.177                | PASS    |
| 11N20SISO | LCH     | -12.058                | PASS    |
| 11N20SISO | MCH     | -12.376                | PASS    |
| 11N20SISO | HCH     | -12.123                | PASS    |
| 11N40SISO | LCH     | -15.333                | PASS    |
| 11N40SISO | MCH     | -15.529                | PASS    |
| 11N40SISO | HCH     | -15.431                | PASS    |

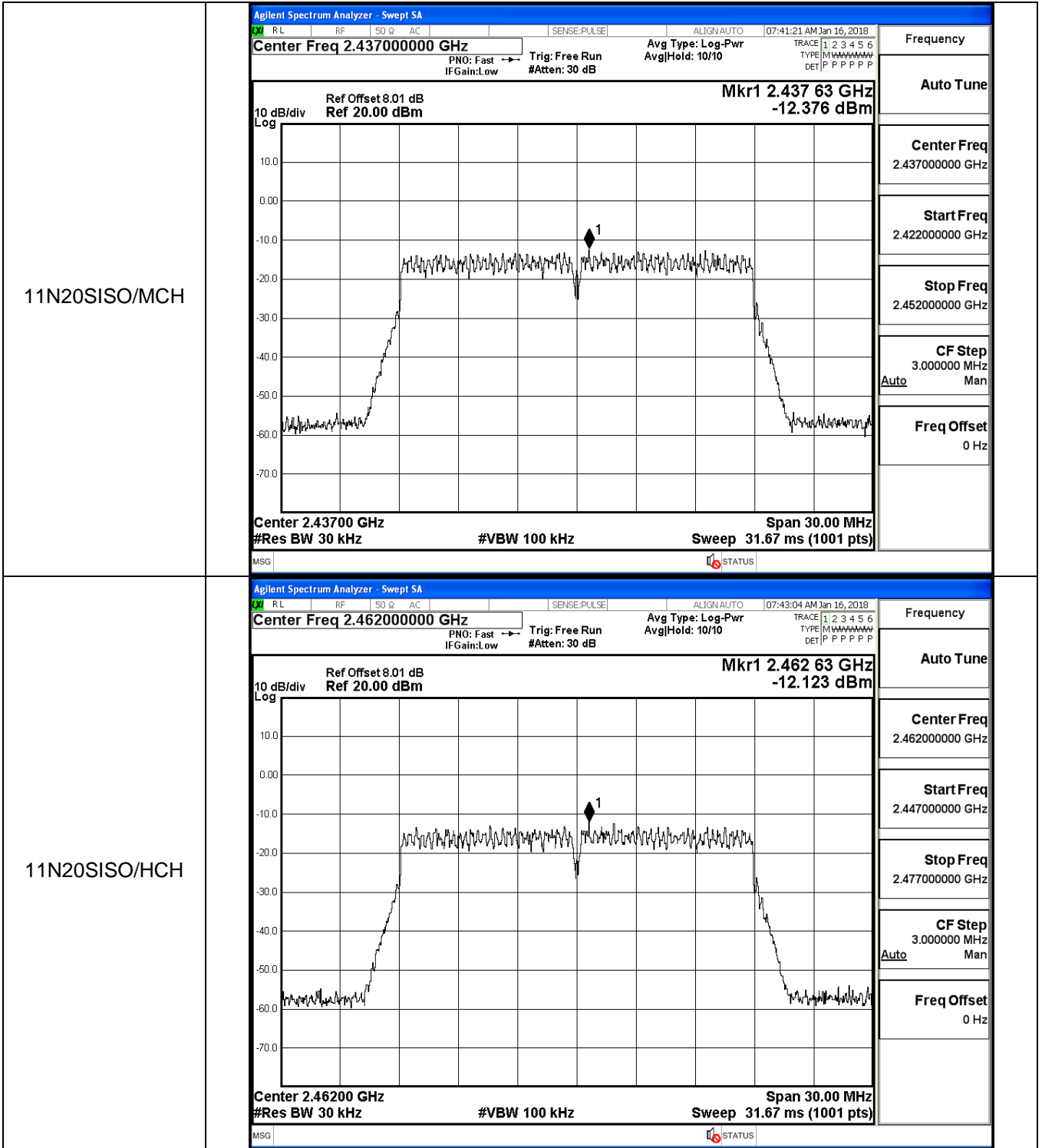
## Test Graph

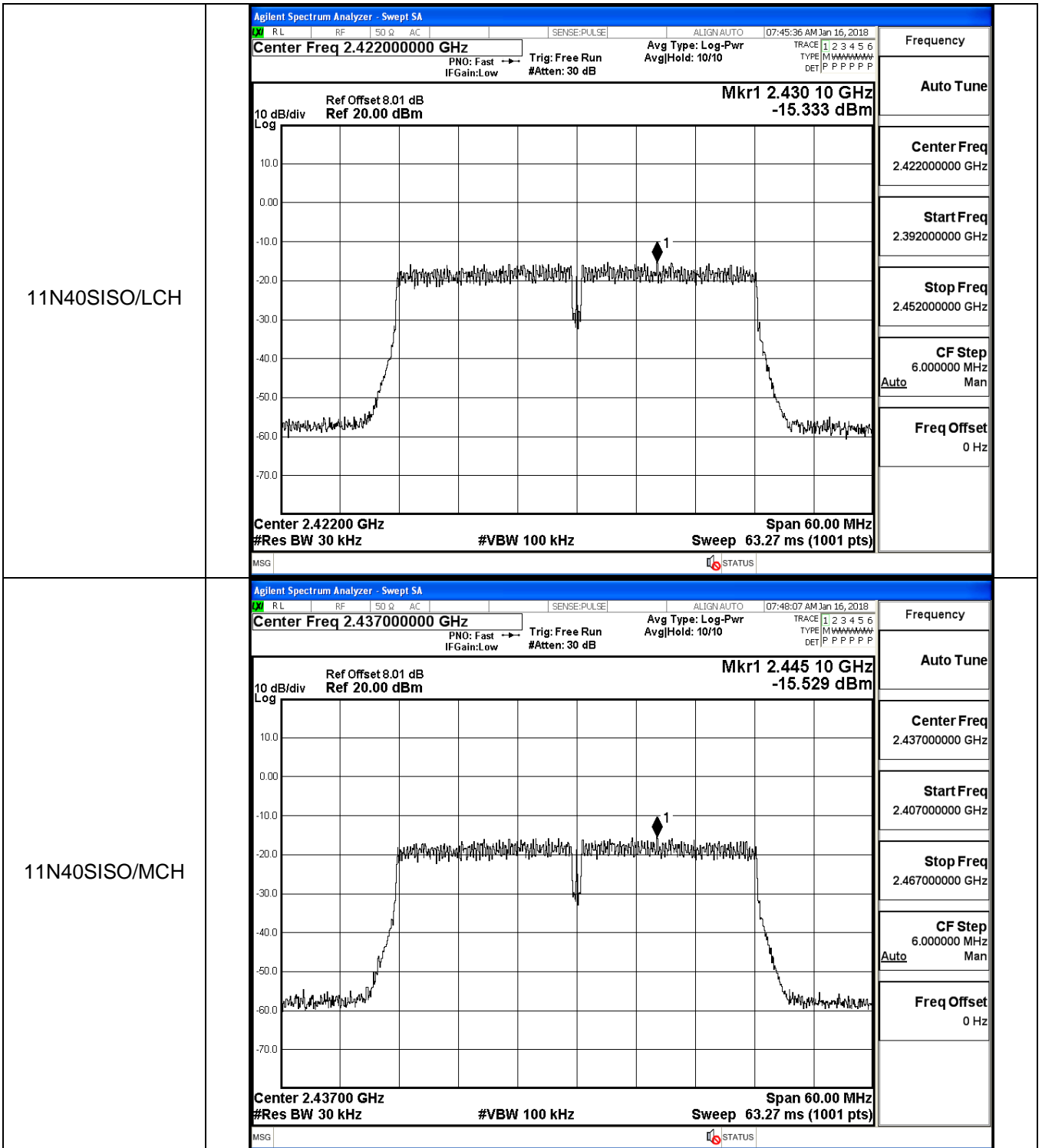


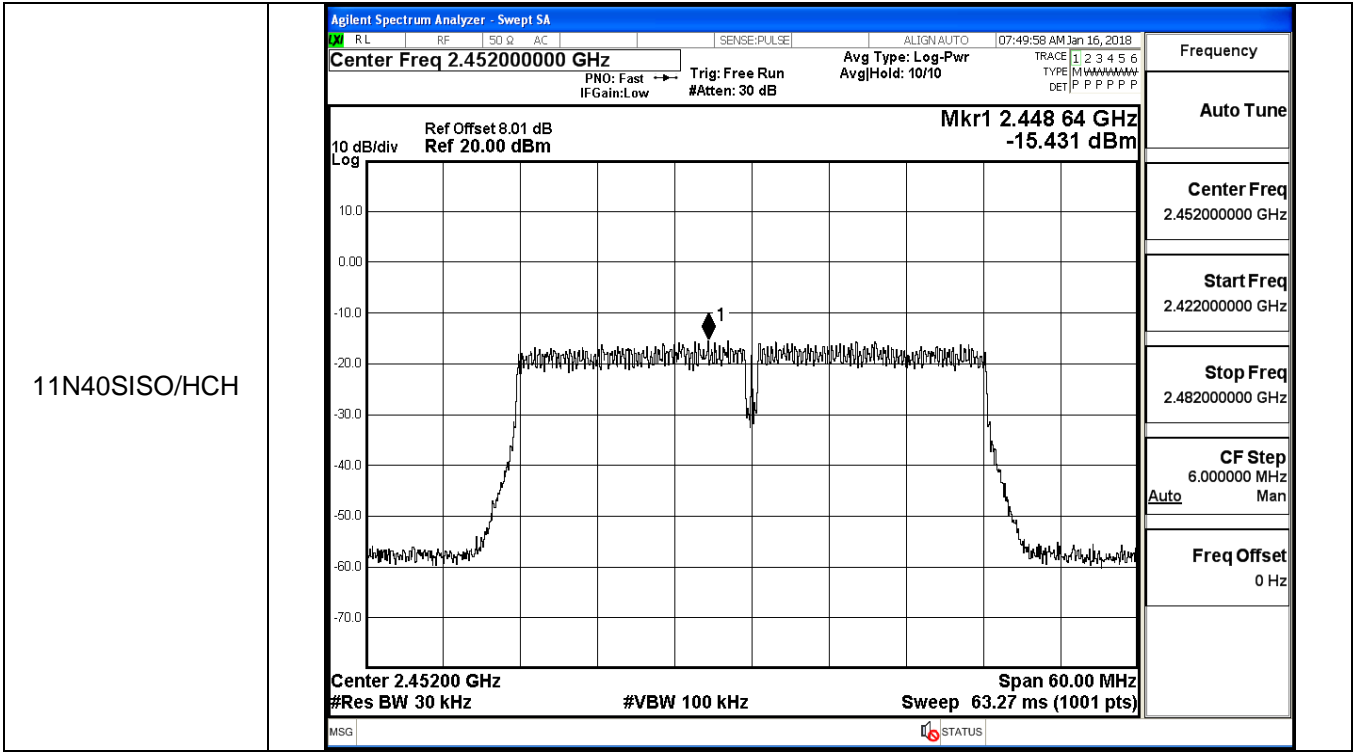
|                                     |  |           |           |                                |                               |                              |                                     |                     |
|-------------------------------------|--|-----------|-----------|--------------------------------|-------------------------------|------------------------------|-------------------------------------|---------------------|
| <p>11B/MCH</p>                      |  <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.43700000 GHz</p> <p>Ref Offset 8.01 dB</p> <p>Ref 20.00 dBm</p> <p>Mkr1 2.437 90 GHz</p> <p>-6.025 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 2.43700 GHz</p> <p>#Res BW 30 kHz</p> <p>#VBW 100 kHz</p> <p>Span 30.00 MHz</p> <p>Sweep 31.67 ms (1001 pts)</p> <p>MSG STATUS</p> <table border="1"> <tr><td>Frequency</td></tr> <tr><td>Auto Tune</td></tr> <tr><td>Center Freq<br/>2.437000000 GHz</td></tr> <tr><td>Start Freq<br/>2.422000000 GHz</td></tr> <tr><td>Stop Freq<br/>2.452000000 GHz</td></tr> <tr><td>CF Step<br/>3.000000 MHz<br/>Auto Man</td></tr> <tr><td>Freq Offset<br/>0 Hz</td></tr> </table>  | Frequency | Auto Tune | Center Freq<br>2.437000000 GHz | Start Freq<br>2.422000000 GHz | Stop Freq<br>2.452000000 GHz | CF Step<br>3.000000 MHz<br>Auto Man | Freq Offset<br>0 Hz |
| Frequency                           |  |           |           |                                |                               |                              |                                     |                     |
| Auto Tune                           |  |           |           |                                |                               |                              |                                     |                     |
| Center Freq<br>2.437000000 GHz      |  |           |           |                                |                               |                              |                                     |                     |
| Start Freq<br>2.422000000 GHz       |  |           |           |                                |                               |                              |                                     |                     |
| Stop Freq<br>2.452000000 GHz        |  |           |           |                                |                               |                              |                                     |                     |
| CF Step<br>3.000000 MHz<br>Auto Man |  |           |           |                                |                               |                              |                                     |                     |
| Freq Offset<br>0 Hz                 |  |           |           |                                |                               |                              |                                     |                     |
| <p>11B/HCH</p>                      |  <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.46200000 GHz</p> <p>Ref Offset 8.01 dB</p> <p>Ref 20.00 dBm</p> <p>Mkr1 2.462 90 GHz</p> <p>-6.206 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 2.46200 GHz</p> <p>#Res BW 30 kHz</p> <p>#VBW 100 kHz</p> <p>Span 30.00 MHz</p> <p>Sweep 31.67 ms (1001 pts)</p> <p>MSG STATUS</p> <table border="1"> <tr><td>Frequency</td></tr> <tr><td>Auto Tune</td></tr> <tr><td>Center Freq<br/>2.462000000 GHz</td></tr> <tr><td>Start Freq<br/>2.447000000 GHz</td></tr> <tr><td>Stop Freq<br/>2.477000000 GHz</td></tr> <tr><td>CF Step<br/>3.000000 MHz<br/>Auto Man</td></tr> <tr><td>Freq Offset<br/>0 Hz</td></tr> </table> | Frequency | Auto Tune | Center Freq<br>2.462000000 GHz | Start Freq<br>2.447000000 GHz | Stop Freq<br>2.477000000 GHz | CF Step<br>3.000000 MHz<br>Auto Man | Freq Offset<br>0 Hz |
| Frequency                           |  |           |           |                                |                               |                              |                                     |                     |
| Auto Tune                           |  |           |           |                                |                               |                              |                                     |                     |
| Center Freq<br>2.462000000 GHz      |  |           |           |                                |                               |                              |                                     |                     |
| Start Freq<br>2.447000000 GHz       |  |           |           |                                |                               |                              |                                     |                     |
| Stop Freq<br>2.477000000 GHz        |  |           |           |                                |                               |                              |                                     |                     |
| CF Step<br>3.000000 MHz<br>Auto Man |  |           |           |                                |                               |                              |                                     |                     |
| Freq Offset<br>0 Hz                 |  |           |           |                                |                               |                              |                                     |                     |













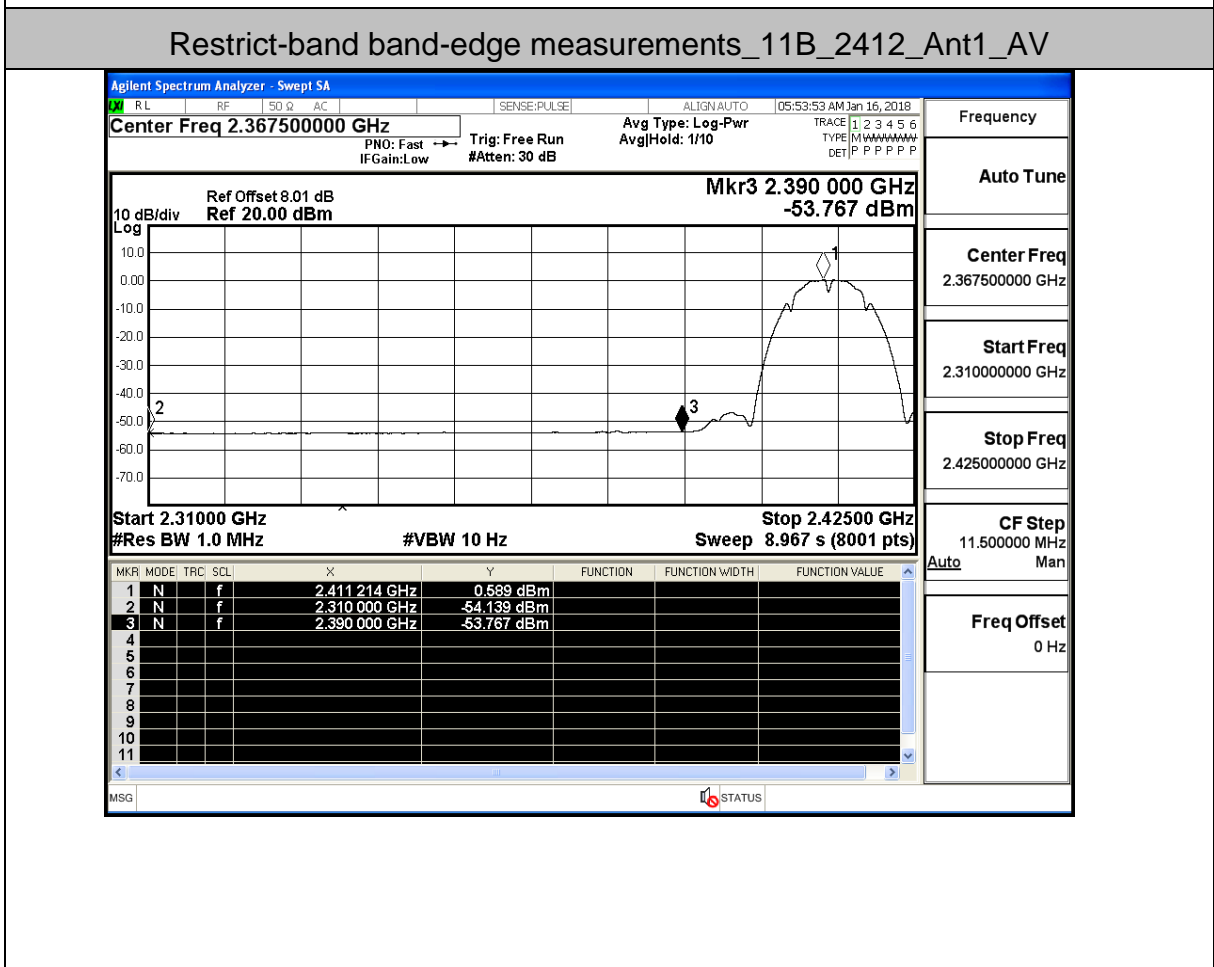
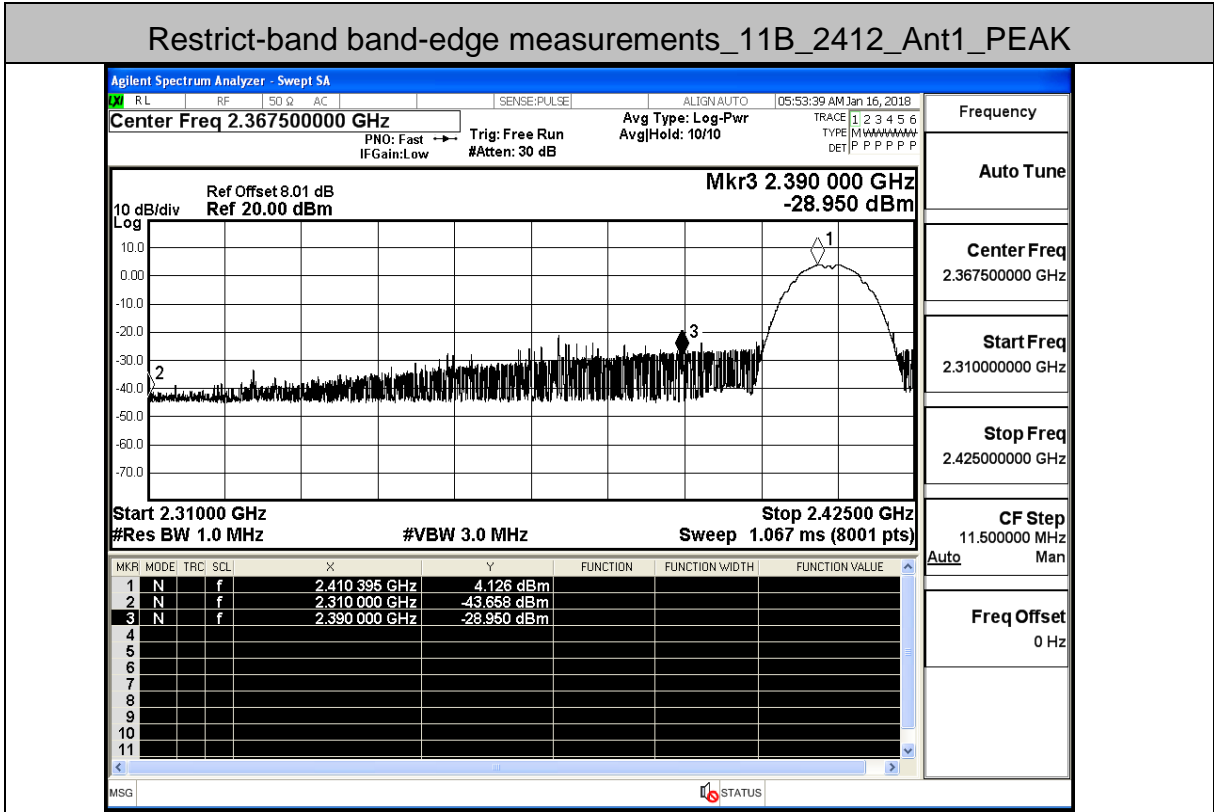
## 5: Restrict-band band-edge measurements

### Result Table

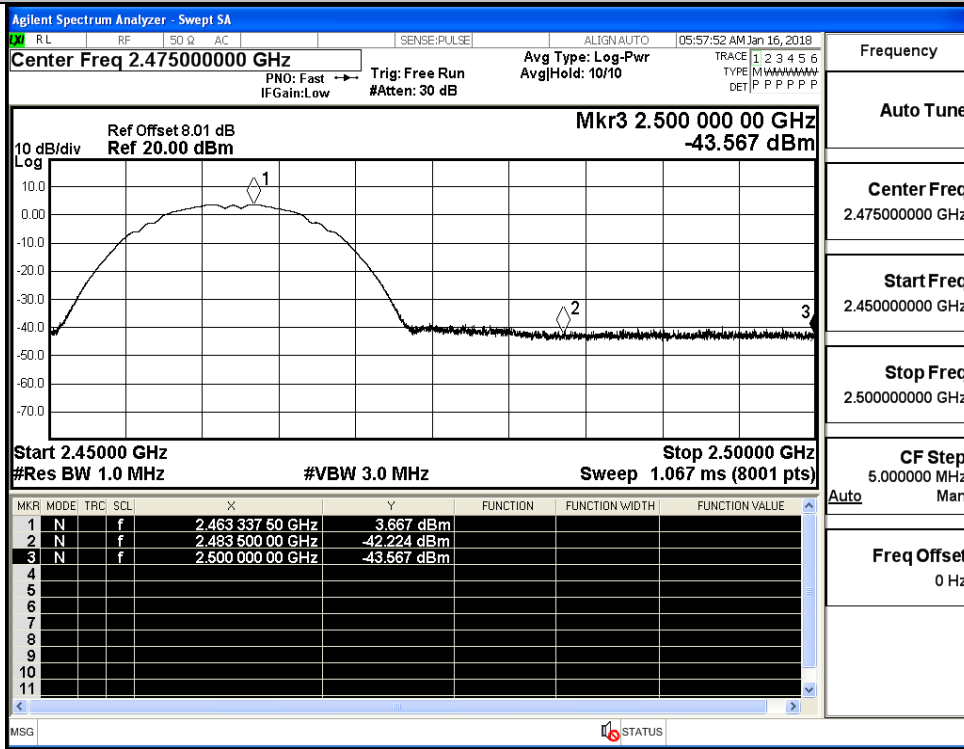
| Test Mode | Test Channel | Ant  | Freq.  | Power [dBm] | Gain | Ground Factor | E [dBuV/m] | Detector | Limit [dBuV/m] | Ver  |
|-----------|--------------|------|--------|-------------|------|---------------|------------|----------|----------------|------|
| 11B       | 2412         | Ant1 | 2310.0 | -43.66      | 2    | 0             | 51.60      | PEAK     | 74             | PASS |
| 11B       | 2412         | Ant1 | 2310.0 | -54.14      | 2    | 0             | 41.12      | AV       | 54             | PASS |
| 11B       | 2412         | Ant1 | 2390.0 | -28.95      | 2    | 0             | 66.31      | PEAK     | 74             | PASS |
| 11B       | 2412         | Ant1 | 2390.0 | -53.77      | 2    | 0             | 41.49      | AV       | 54             | PASS |
| 11B       | 2462         | Ant1 | 2483.5 | -42.22      | 2    | 0             | 53.03      | PEAK     | 74             | PASS |
| 11B       | 2462         | Ant1 | 2483.5 | -53.53      | 2    | 0             | 41.72      | AV       | 54             | PASS |
| 11B       | 2462         | Ant1 | 2500.0 | -43.57      | 2    | 0             | 51.69      | PEAK     | 74             | PASS |
| 11B       | 2462         | Ant1 | 2500.0 | -53.47      | 2    | 0             | 41.79      | AV       | 54             | PASS |
| 11G       | 2412         | Ant1 | 2310.0 | -42.05      | 2    | 0             | 53.21      | PEAK     | 74             | PASS |
| 11G       | 2412         | Ant1 | 2310.0 | -54.14      | 2    | 0             | 41.12      | AV       | 54             | PASS |
| 11G       | 2412         | Ant1 | 2390.0 | -41.40      | 2    | 0             | 53.86      | PEAK     | 74             | PASS |
| 11G       | 2412         | Ant1 | 2390.0 | -53.19      | 2    | 0             | 42.07      | AV       | 54             | PASS |
| 11G       | 2462         | Ant1 | 2483.5 | -42.26      | 2    | 0             | 53.00      | PEAK     | 74             | PASS |
| 11G       | 2462         | Ant1 | 2483.5 | -53.25      | 2    | 0             | 42.01      | AV       | 54             | PASS |
| 11G       | 2462         | Ant1 | 2500.0 | -41.91      | 2    | 0             | 53.35      | PEAK     | 74             | PASS |
| 11G       | 2462         | Ant1 | 2500.0 | -53.26      | 2    | 0             | 42.00      | AV       | 54             | PASS |
| 11N20SISO | 2412         | Ant1 | 2310.0 | -42.85      | 2    | 0             | 52.40      | PEAK     | 74             | PASS |
| 11N20SISO | 2412         | Ant1 | 2310.0 | -54.16      | 2    | 0             | 41.10      | AV       | 54             | PASS |
| 11N20SISO | 2412         | Ant1 | 2390.0 | -43.36      | 2    | 0             | 51.89      | PEAK     | 74             | PASS |
| 11N20SISO | 2412         | Ant1 | 2390.0 | -53.11      | 2    | 0             | 42.15      | AV       | 54             | PASS |
| 11N20SISO | 2462         | Ant1 | 2483.5 | -42.47      | 2    | 0             | 52.79      | PEAK     | 74             | PASS |
| 11N20SISO | 2462         | Ant1 | 2483.5 | -53.14      | 2    | 0             | 42.12      | AV       | 54             | PASS |
| 11N20SISO | 2462         | Ant1 | 2500.0 | -41.59      | 2    | 0             | 53.67      | PEAK     | 74             | PASS |
| 11N20SISO | 2462         | Ant1 | 2500.0 | -53.25      | 2    | 0             | 42.01      | AV       | 54             | PASS |
| 11N40SISO | 2422         | Ant1 | 2310.0 | -44.25      | 2    | 0             | 51.01      | PEAK     | 74             | PASS |
| 11N40SISO | 2422         | Ant1 | 2310.0 | -54.11      | 2    | 0             | 41.15      | AV       | 54             | PASS |
| 11N40SISO | 2422         | Ant1 | 2390.0 | -42.34      | 2    | 0             | 52.92      | PEAK     | 74             | PASS |
| 11N40SISO | 2422         | Ant1 | 2390.0 | -52.68      | 2    | 0             | 42.58      | AV       | 54             | PASS |

|           |      |      |        |        |   |   |       |      |    |      |
|-----------|------|------|--------|--------|---|---|-------|------|----|------|
| 11N40SISO | 2452 | Ant1 | 2483.5 | -42.71 | 2 | 0 | 52.55 | PEAK | 74 | PASS |
| 11N40SISO | 2452 | Ant1 | 2483.5 | -53.01 | 2 | 0 | 42.24 | AV   | 54 | PASS |
| 11N40SISO | 2452 | Ant1 | 2500.0 | -43.67 | 2 | 0 | 51.58 | PEAK | 74 | PASS |
| 11N40SISO | 2452 | Ant1 | 2500.0 | -53.24 | 2 | 0 | 42.02 | AV   | 54 | PASS |

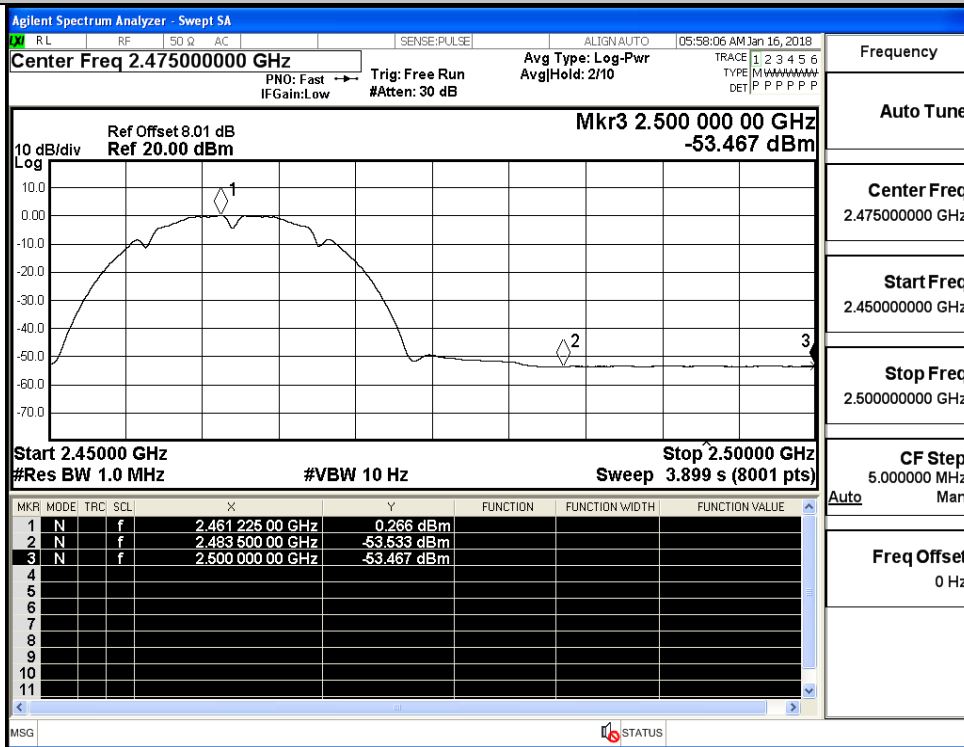
### Test Graph



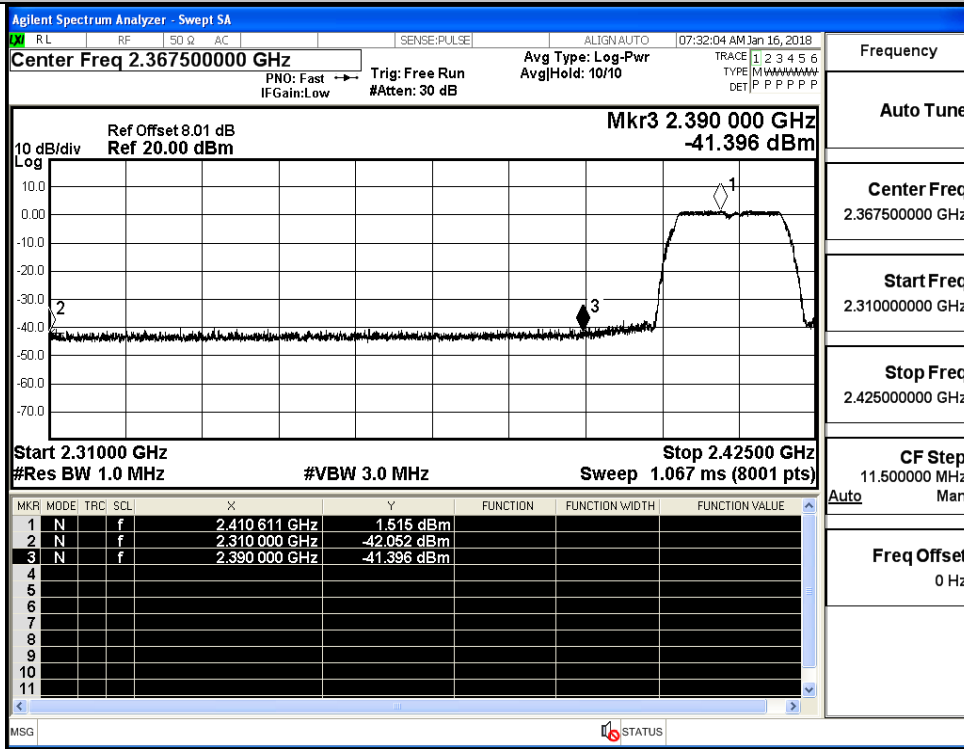
### Restrict-band band-edge measurements\_11B\_2462\_Ant1\_PEAK



### Restrict-band band-edge measurements\_11B\_2462\_Ant1\_AV

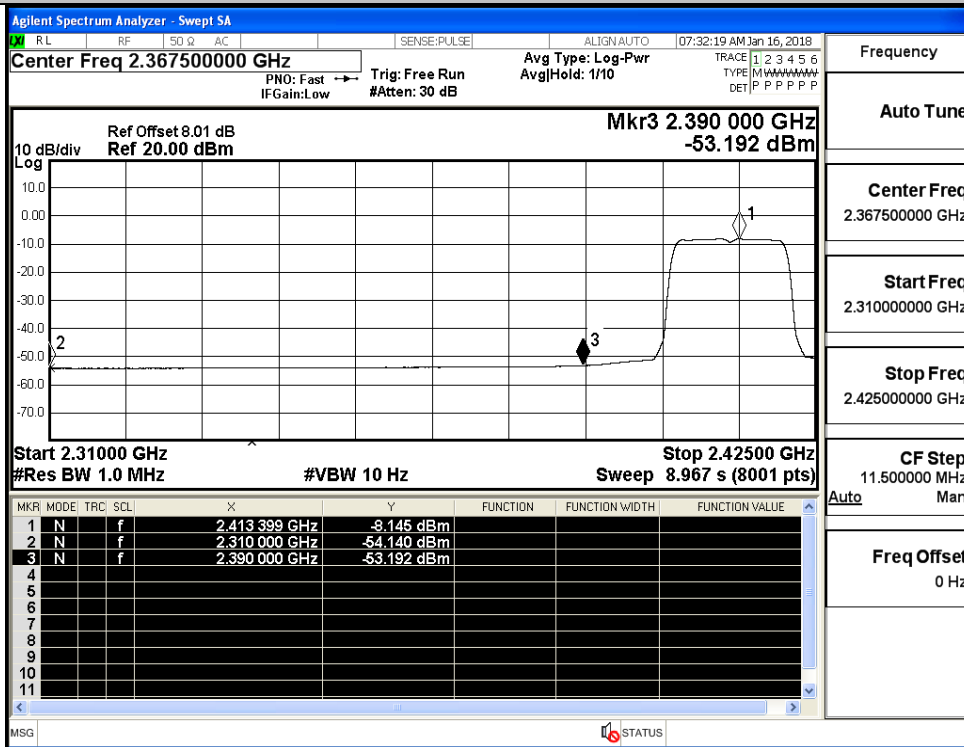


### Restrict-band band-edge measurements\_11G\_2412\_Ant1\_PEAK



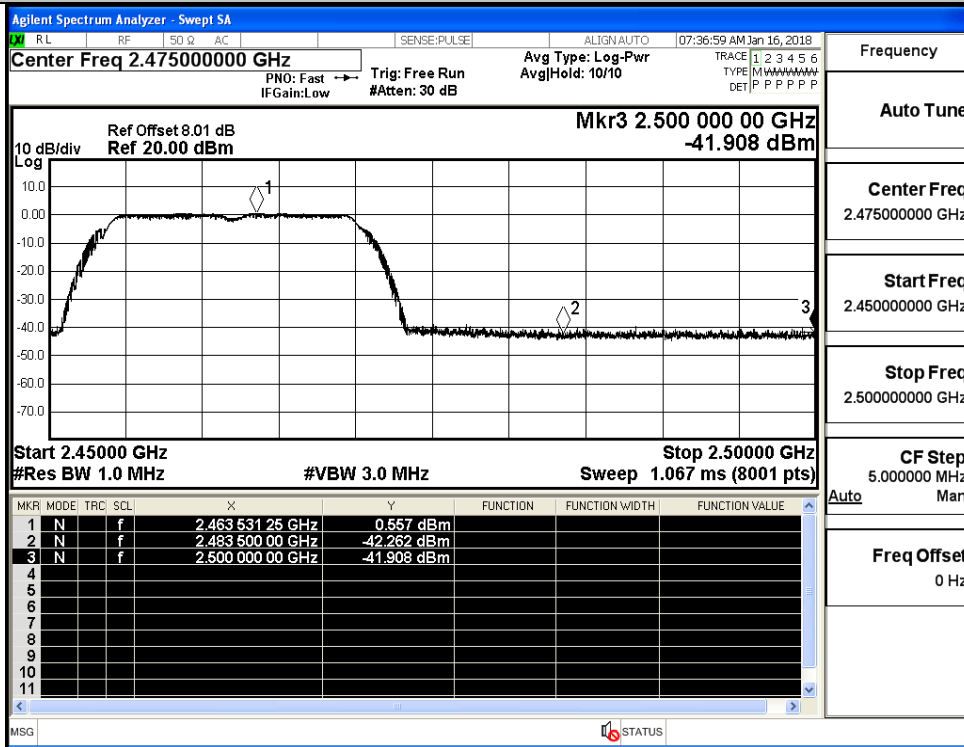
|                                |
|--------------------------------|
| Frequency                      |
| Auto Tune                      |
| Center Freq<br>2.367500000 GHz |
| Start Freq<br>2.310000000 GHz  |
| Stop Freq<br>2.425000000 GHz   |
| CF Step<br>11.500000 MHz       |
| Auto Man                       |
| Freq Offset<br>0 Hz            |

### Restrict-band band-edge measurements\_11G\_2412\_Ant1\_AV



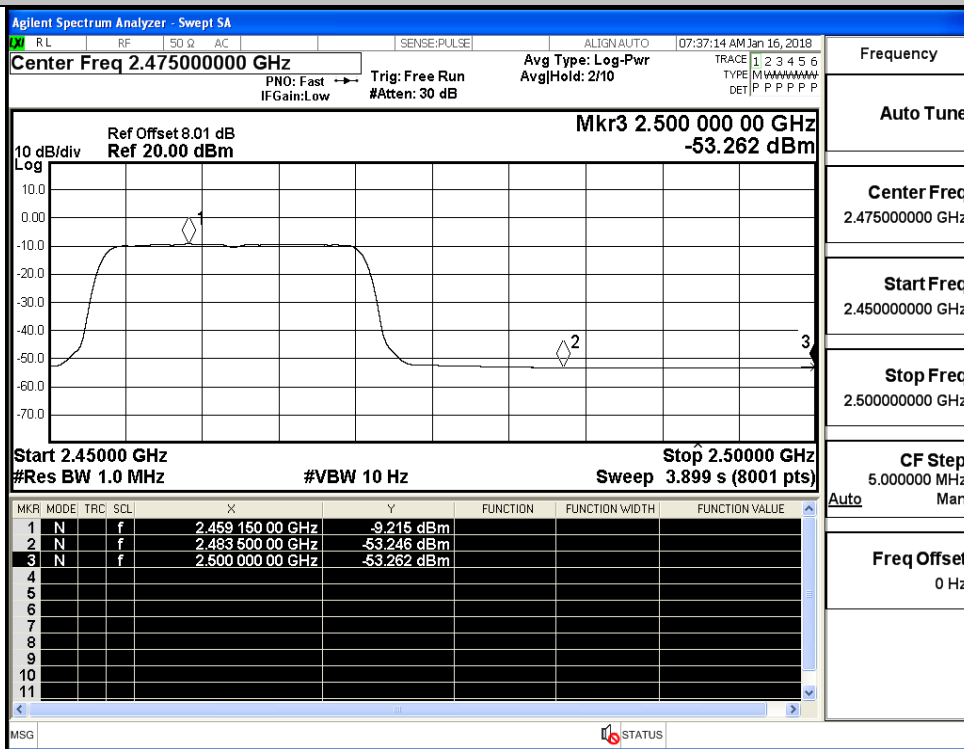
|                                |
|--------------------------------|
| Frequency                      |
| Auto Tune                      |
| Center Freq<br>2.367500000 GHz |
| Start Freq<br>2.310000000 GHz  |
| Stop Freq<br>2.425000000 GHz   |
| CF Step<br>11.500000 MHz       |
| Auto Man                       |
| Freq Offset<br>0 Hz            |

### Restrict-band band-edge measurements\_11G\_2462\_Ant1\_PEAK



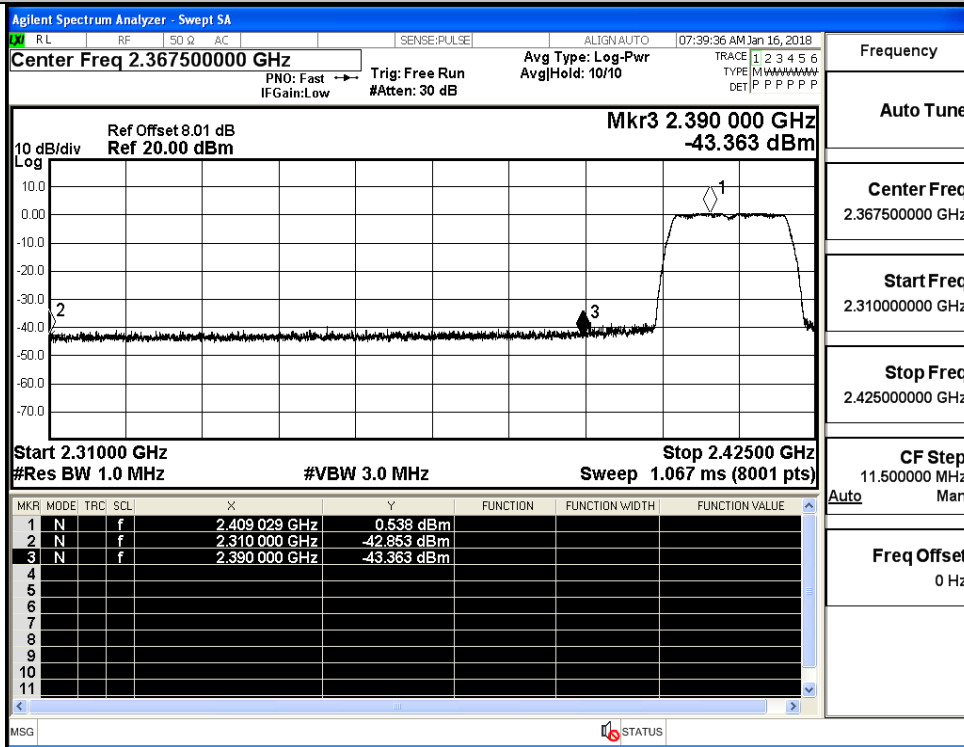
|                                |
|--------------------------------|
| Frequency                      |
| Auto Tune                      |
| Center Freq<br>2.475000000 GHz |
| Start Freq<br>2.450000000 GHz  |
| Stop Freq<br>2.500000000 GHz   |
| CF Step<br>5.000000 MHz        |
| Auto Man                       |
| Freq Offset<br>0 Hz            |

### Restrict-band band-edge measurements\_11G\_2462\_Ant1\_AV



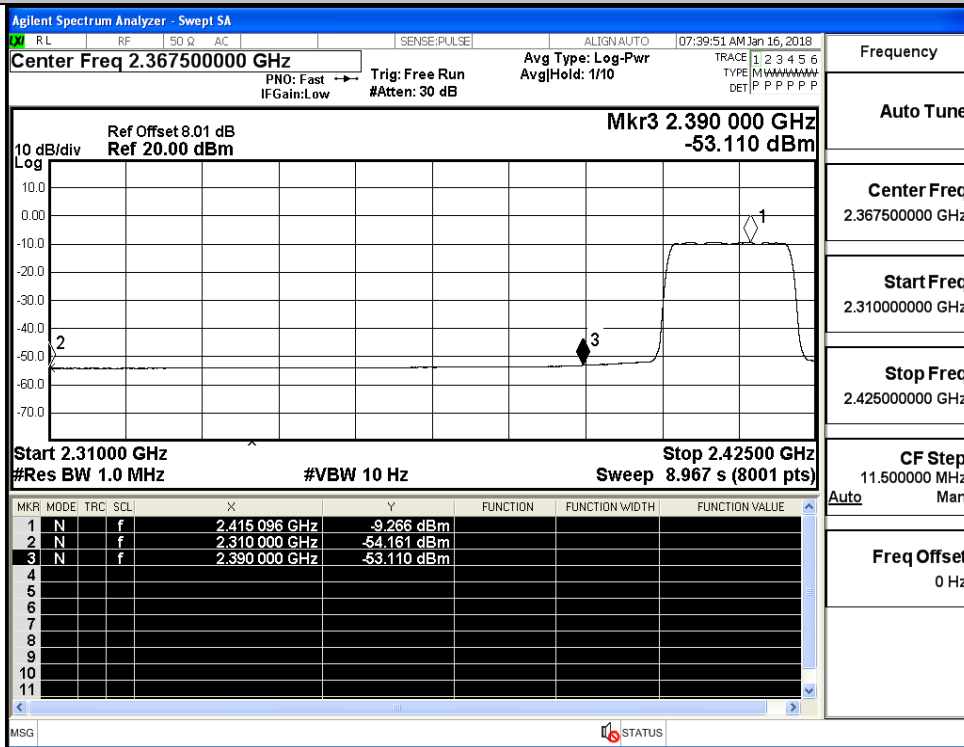
|                                |
|--------------------------------|
| Frequency                      |
| Auto Tune                      |
| Center Freq<br>2.475000000 GHz |
| Start Freq<br>2.450000000 GHz  |
| Stop Freq<br>2.500000000 GHz   |
| CF Step<br>5.000000 MHz        |
| Auto Man                       |
| Freq Offset<br>0 Hz            |

Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_PEAK



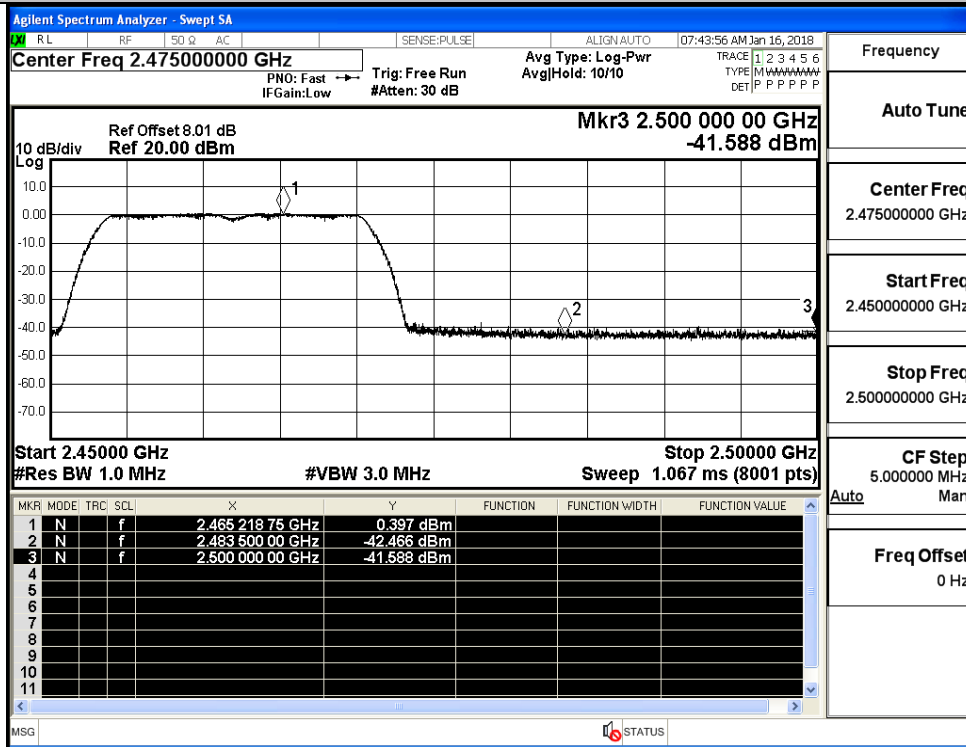
|                                |
|--------------------------------|
| Frequency                      |
| Auto Tune                      |
| Center Freq<br>2.367500000 GHz |
| Start Freq<br>2.310000000 GHz  |
| Stop Freq<br>2.425000000 GHz   |
| CF Step<br>11.500000 MHz       |
| Auto Man                       |
| Freq Offset<br>0 Hz            |

Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_AV



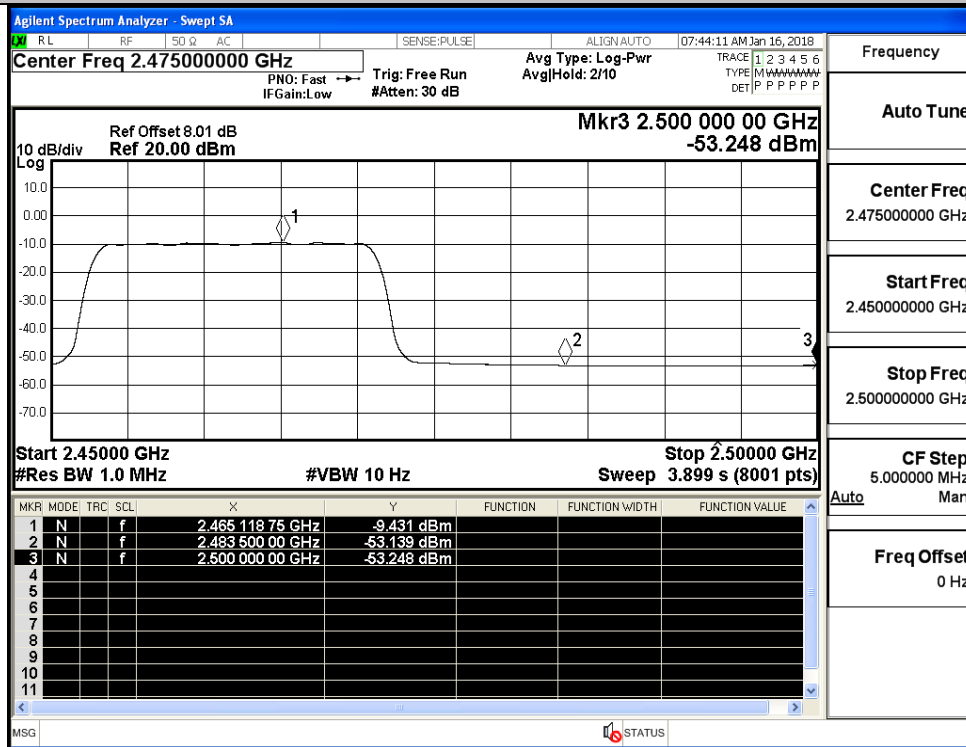
|                                |
|--------------------------------|
| Frequency                      |
| Auto Tune                      |
| Center Freq<br>2.367500000 GHz |
| Start Freq<br>2.310000000 GHz  |
| Stop Freq<br>2.425000000 GHz   |
| CF Step<br>11.500000 MHz       |
| Auto Man                       |
| Freq Offset<br>0 Hz            |

### Restrict-band band-edge measurements\_11N20SISO\_2462\_Ant1\_PEAK



|                                |
|--------------------------------|
| Frequency                      |
| Auto Tune                      |
| Center Freq<br>2.475000000 GHz |
| Start Freq<br>2.450000000 GHz  |
| Stop Freq<br>2.500000000 GHz   |
| CF Step<br>5.000000 MHz        |
| Auto Man                       |
| Freq Offset<br>0 Hz            |

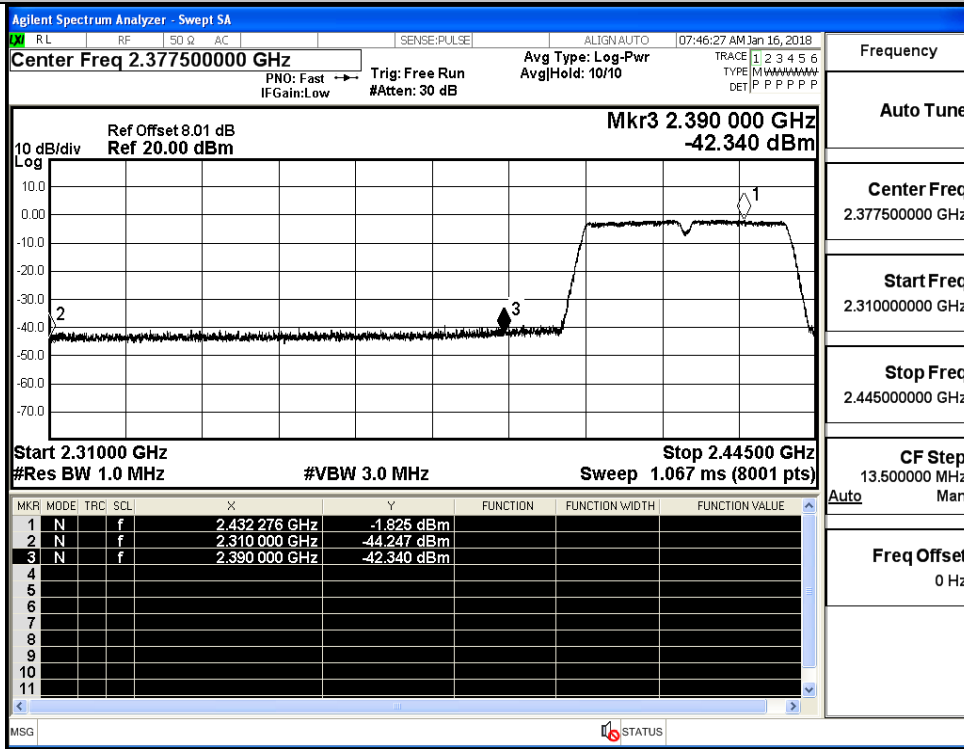
### Restrict-band band-edge measurements\_11N20SISO\_2462\_Ant1\_AV



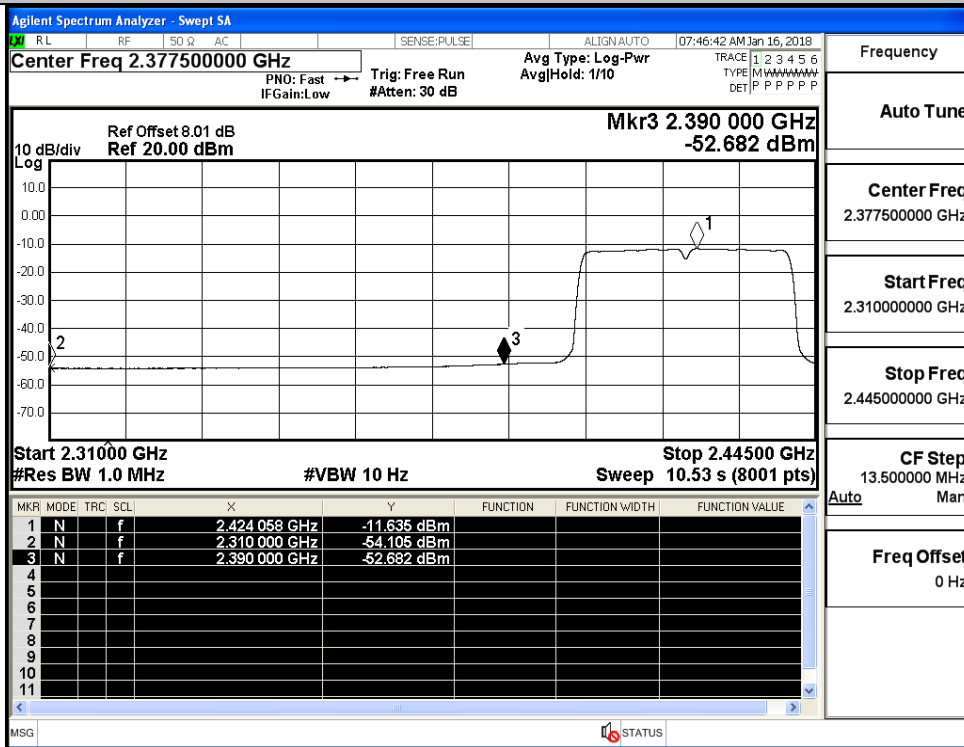
|                                |
|--------------------------------|
| Frequency                      |
| Auto Tune                      |
| Center Freq<br>2.475000000 GHz |
| Start Freq<br>2.450000000 GHz  |
| Stop Freq<br>2.500000000 GHz   |
| CF Step<br>5.000000 MHz        |
| Auto Man                       |
| Freq Offset<br>0 Hz            |



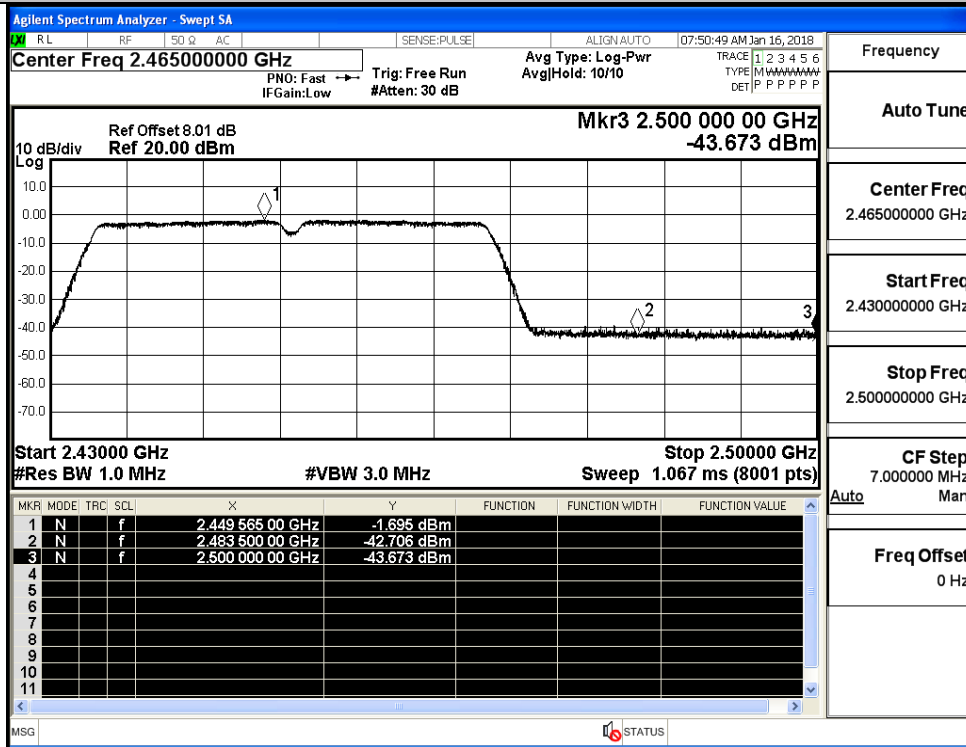
### Restrict-band band-edge measurements\_11N40SISO\_2422\_Ant1\_PEAK



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

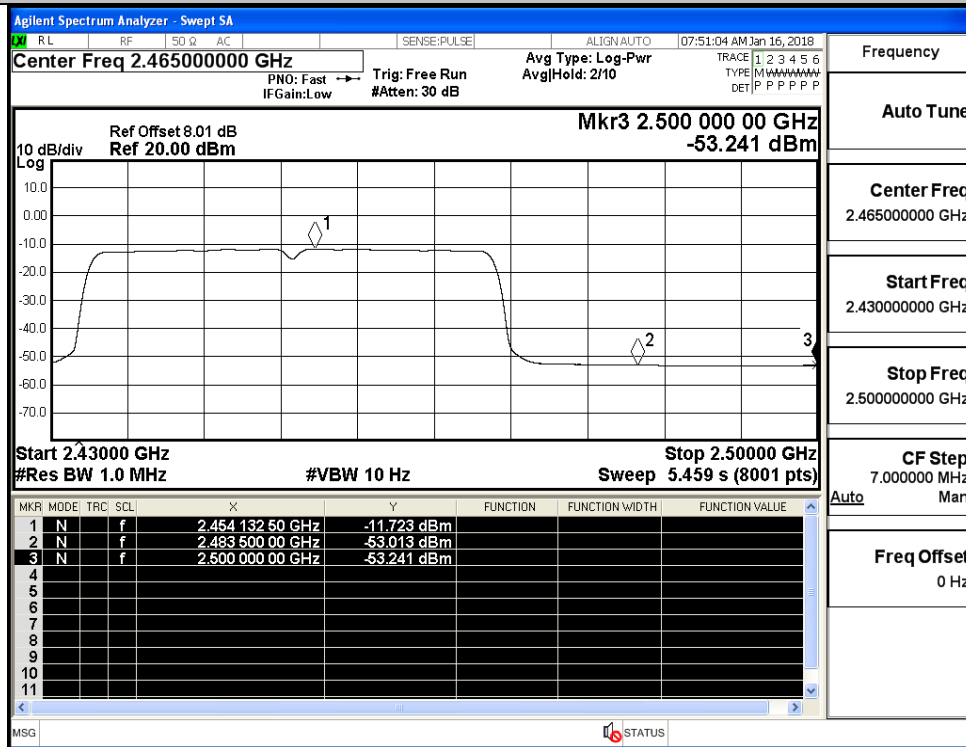


Restrict-band band-edge measurements\_11N40SISO\_2452\_Ant1\_PEAK



|                                |
|--------------------------------|
| Frequency                      |
| Auto Tune                      |
| Center Freq<br>2.465000000 GHz |
| Start Freq<br>2.430000000 GHz  |
| Stop Freq<br>2.500000000 GHz   |
| CF Step<br>7.000000 MHz        |
| Auto Man                       |
| Freq Offset<br>0 Hz            |

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



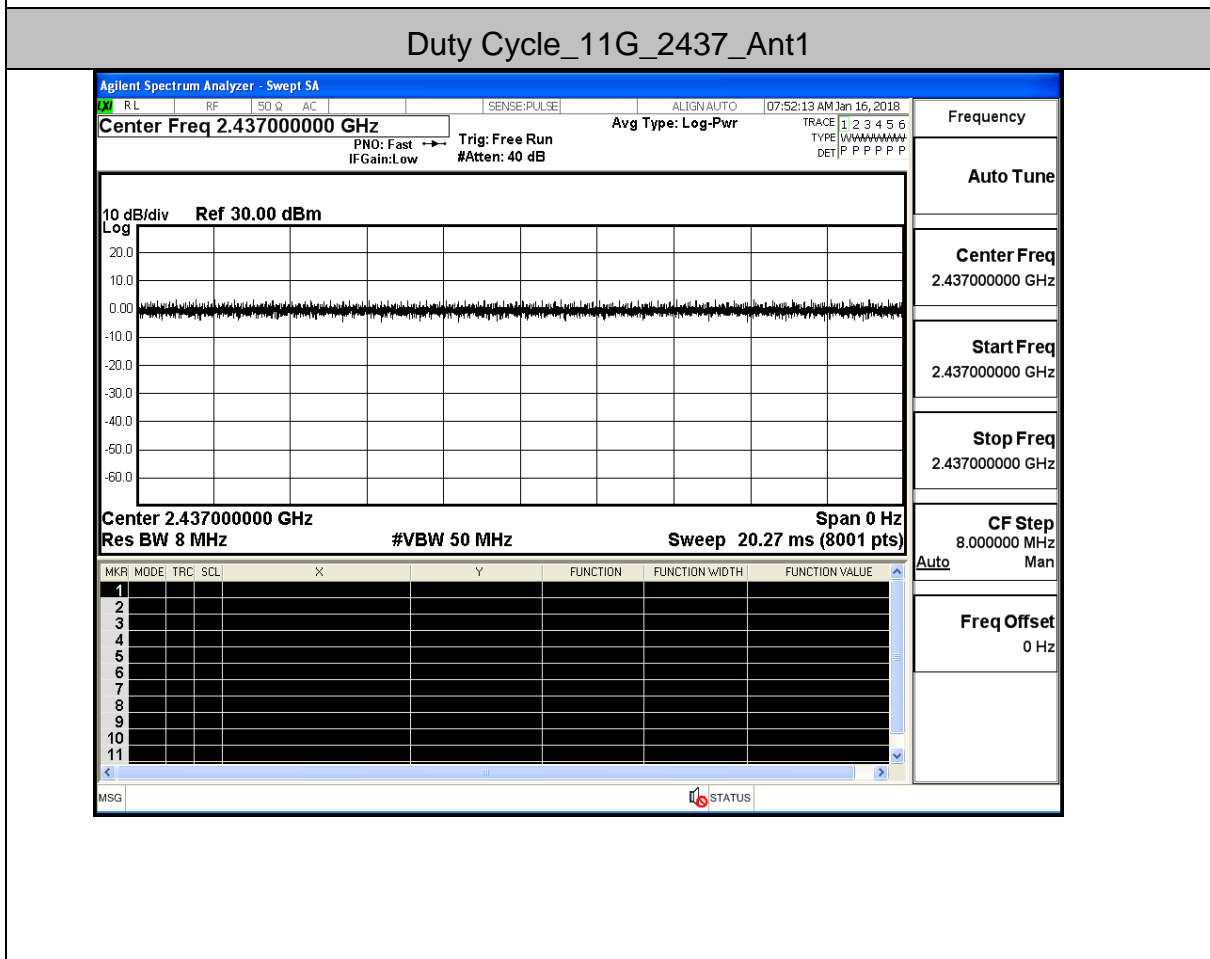
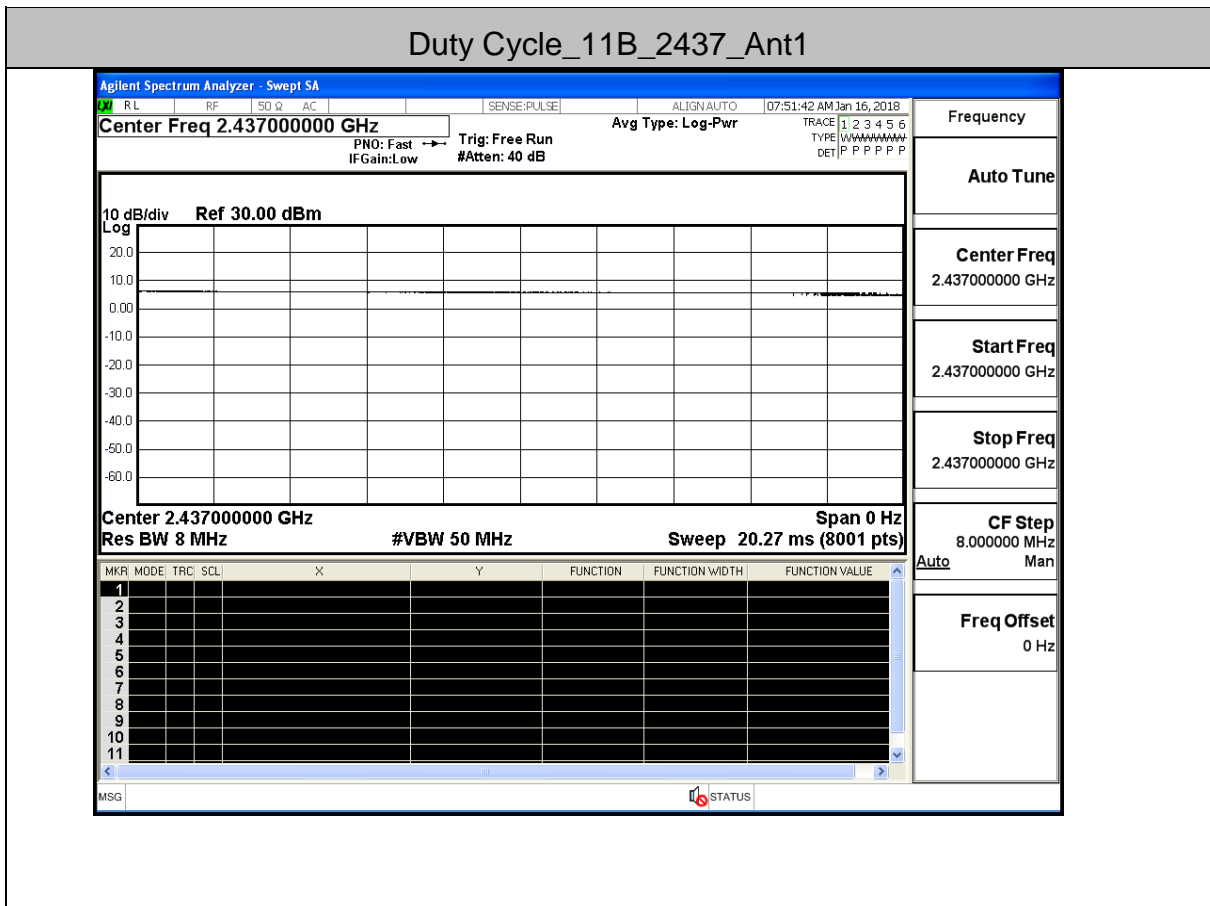
|                                |
|--------------------------------|
| Frequency                      |
| Auto Tune                      |
| Center Freq<br>2.465000000 GHz |
| Start Freq<br>2.430000000 GHz  |
| Stop Freq<br>2.500000000 GHz   |
| CF Step<br>7.000000 MHz        |
| Auto Man                       |
| Freq Offset<br>0 Hz            |

## 6:Duty Cycle

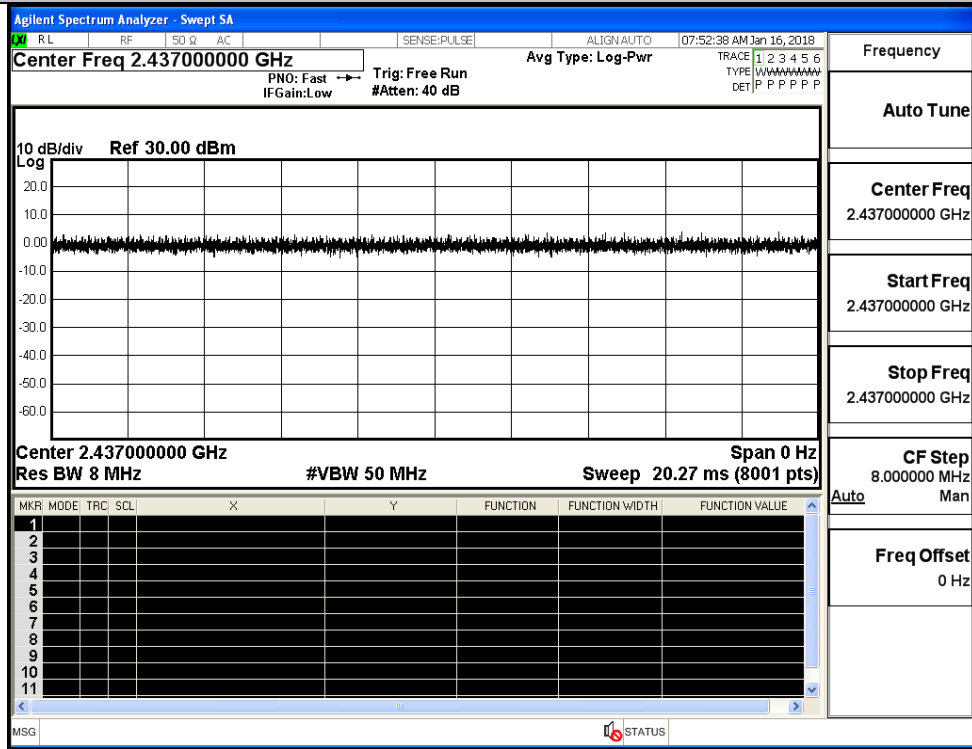
**Result Table**

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

Test Graph



### Duty Cycle\_11N20SISO\_2437\_Ant1



### Duty Cycle\_11N40SISO\_2437\_Ant1

