

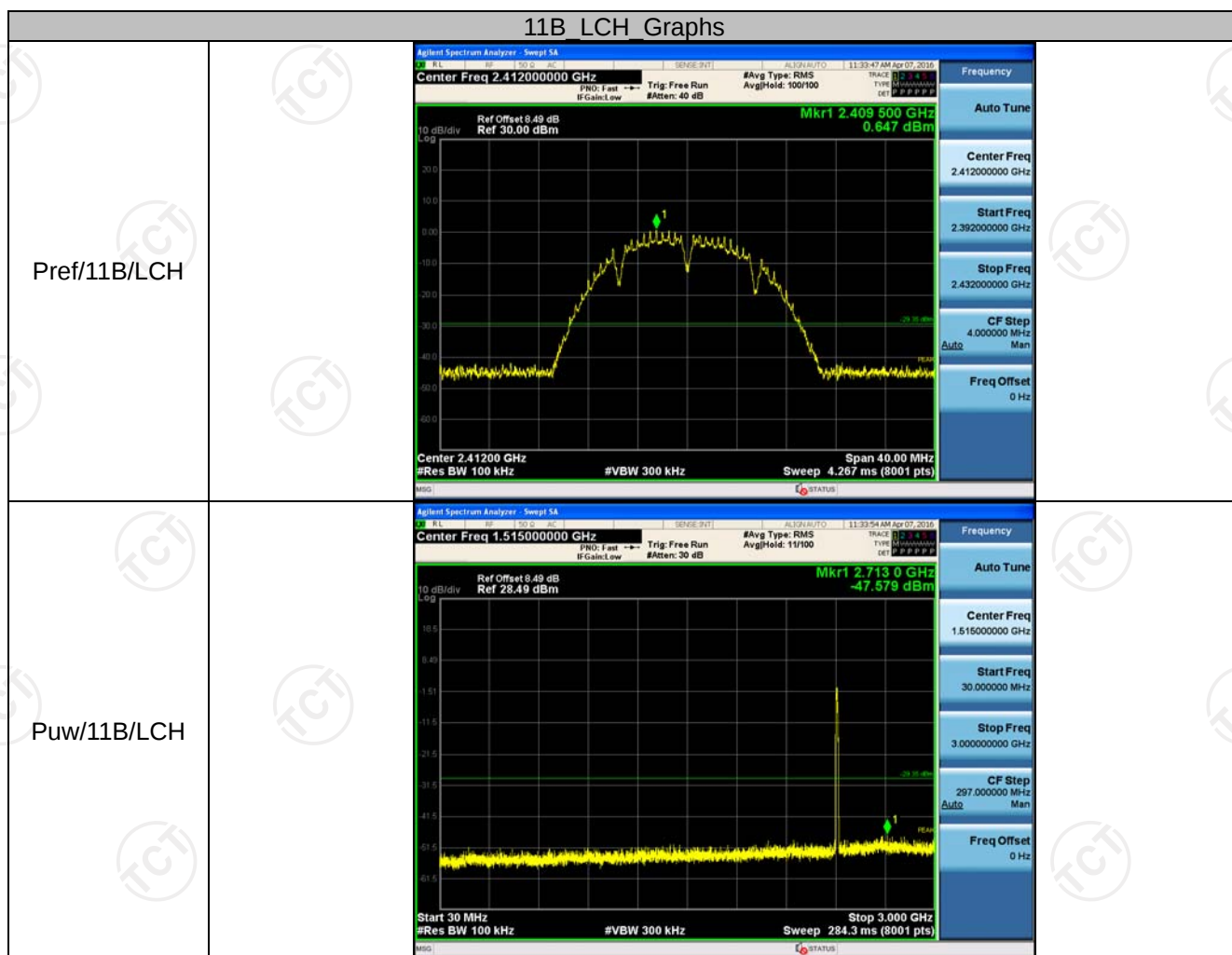
## RF Conducted Spurious Emissions

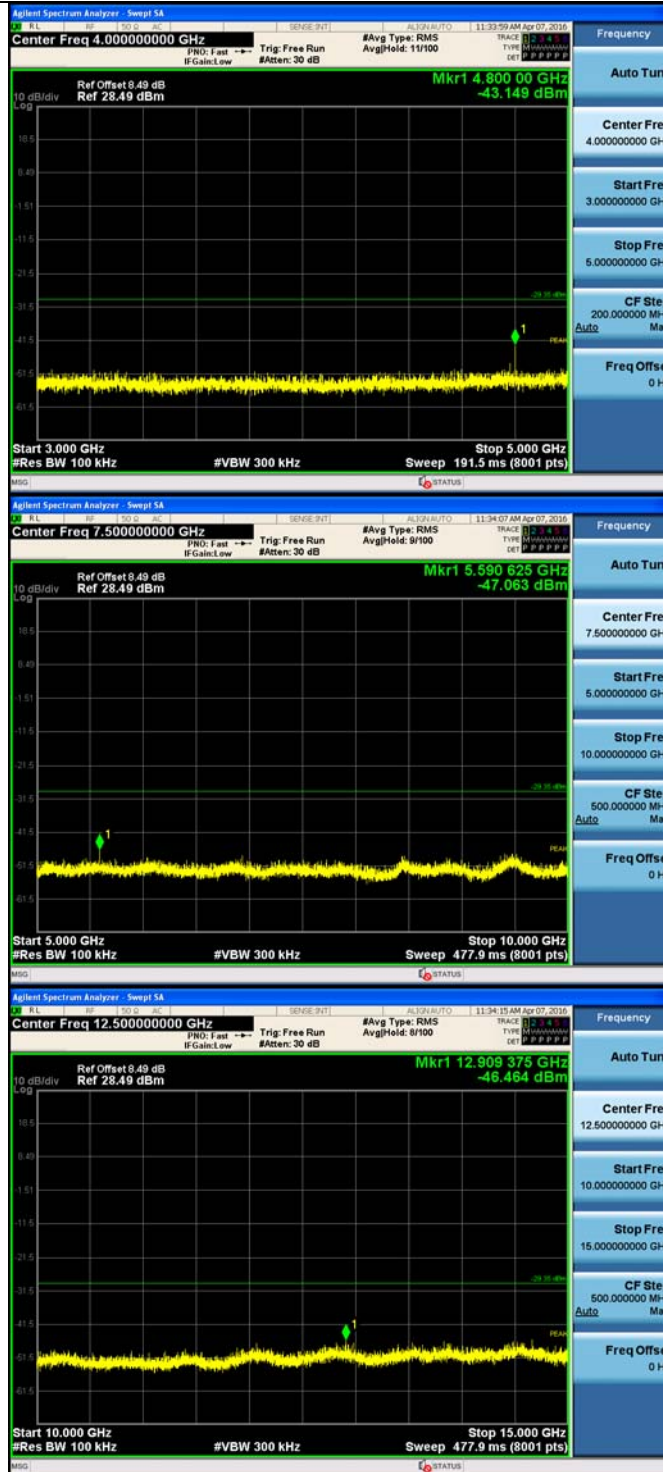
Result Table

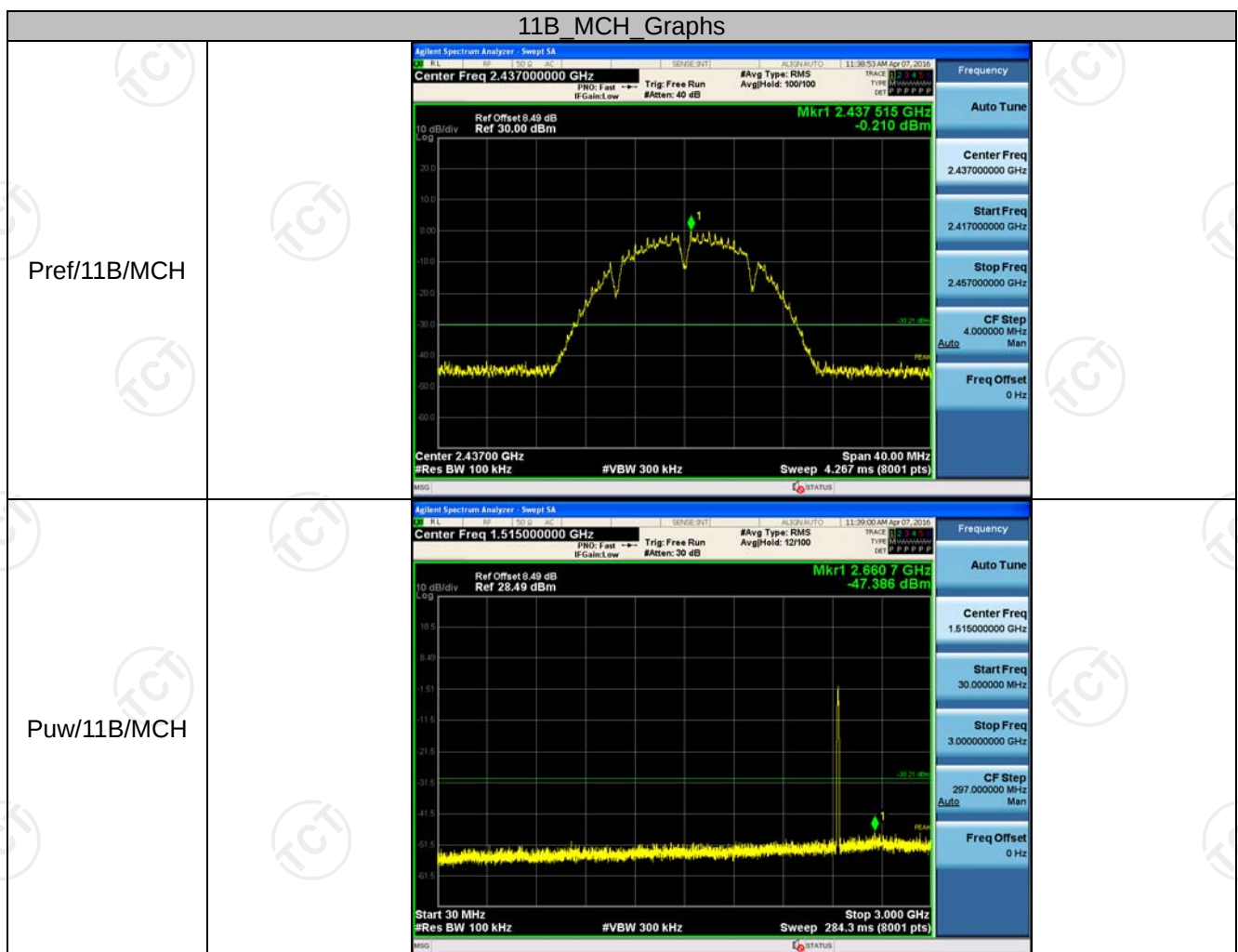
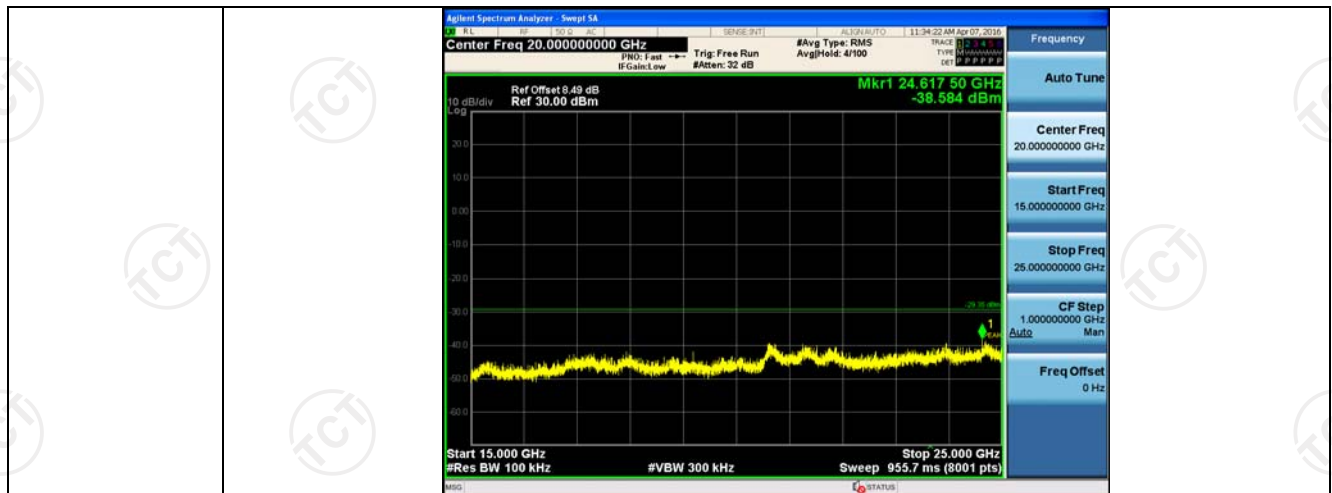
| Mode      | Channel | Pref [dBm] | Puw[dBm] | Verdict |
|-----------|---------|------------|----------|---------|
| 11B       | LCH     | 0.647      | <Limit   | PASS    |
| 11B       | MCH     | -0.21      | <Limit   | PASS    |
| 11B       | HCH     | -0.833     | <Limit   | PASS    |
| 11G       | LCH     | -1.473     | <Limit   | PASS    |
| 11G       | MCH     | -2.458     | <Limit   | PASS    |
| 11G       | HCH     | -1.275     | <Limit   | PASS    |
| 11N20SISO | LCH     | -1.758     | <Limit   | PASS    |
| 11N20SISO | MCH     | -1.44      | <Limit   | PASS    |
| 11N20SISO | HCH     | -0.992     | <Limit   | PASS    |
| 11N40SISO | LCH     | -5.335     | <Limit   | PASS    |
| 11N40SISO | MCH     | -5.117     | <Limit   | PASS    |
| 11N40SISO | HCH     | -6.097     | <Limit   | PASS    |

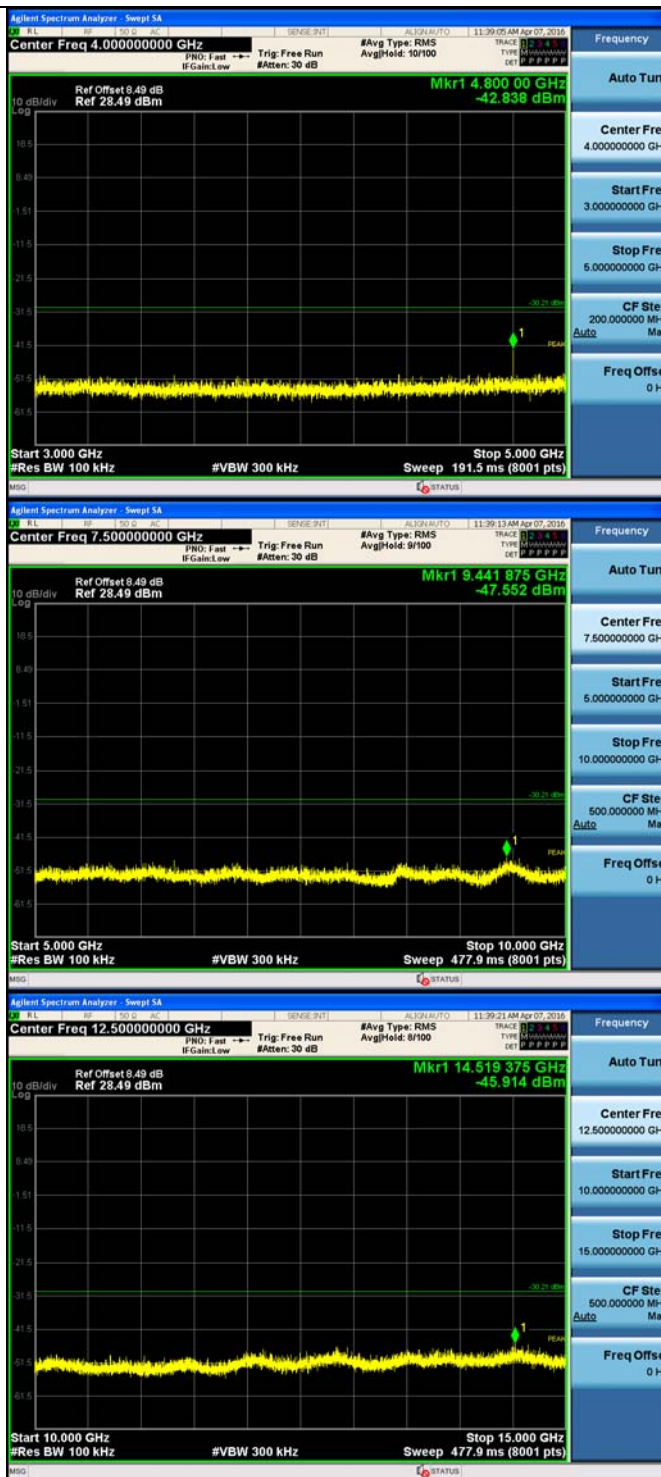
Comply with 30dBc

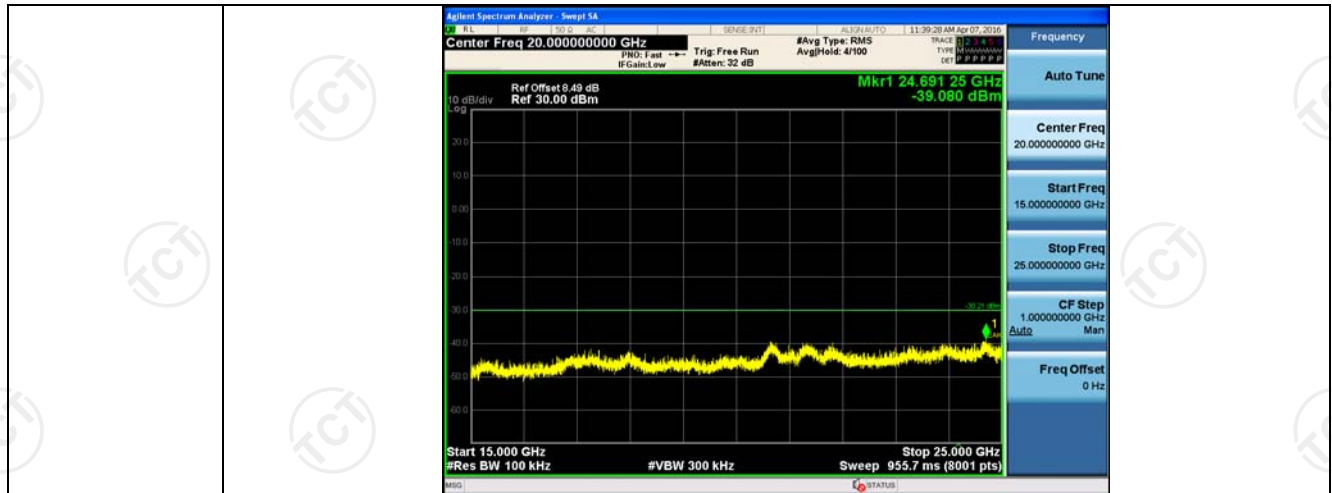
Test Graph



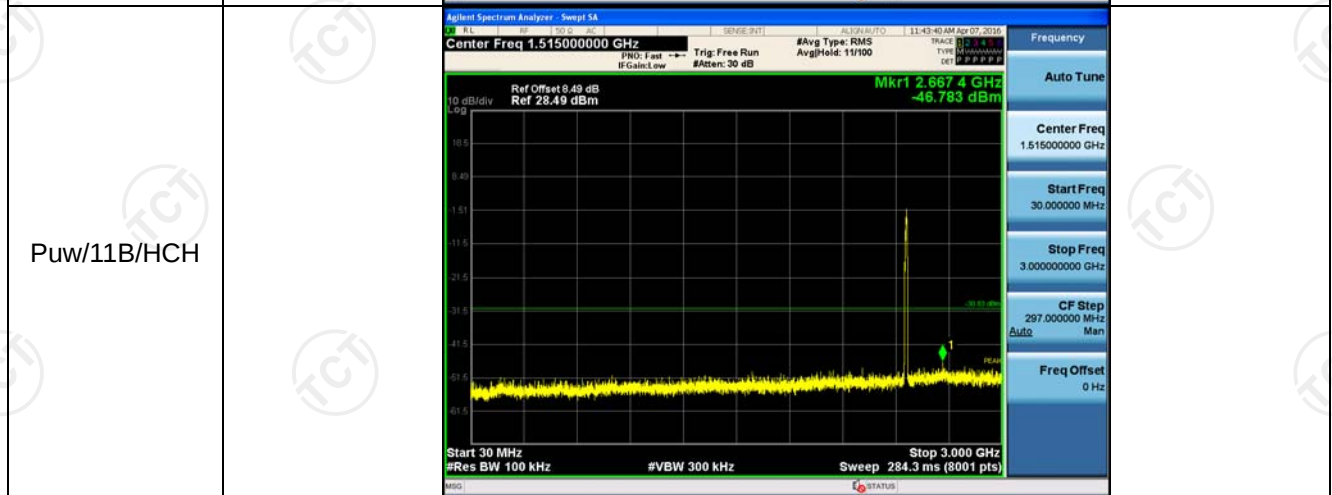
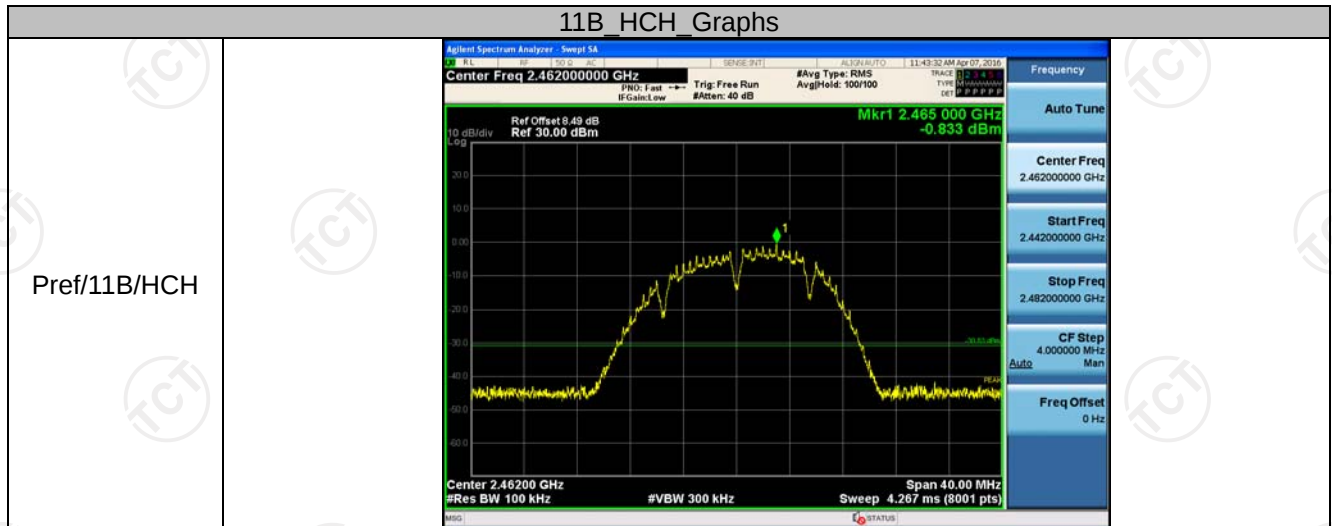


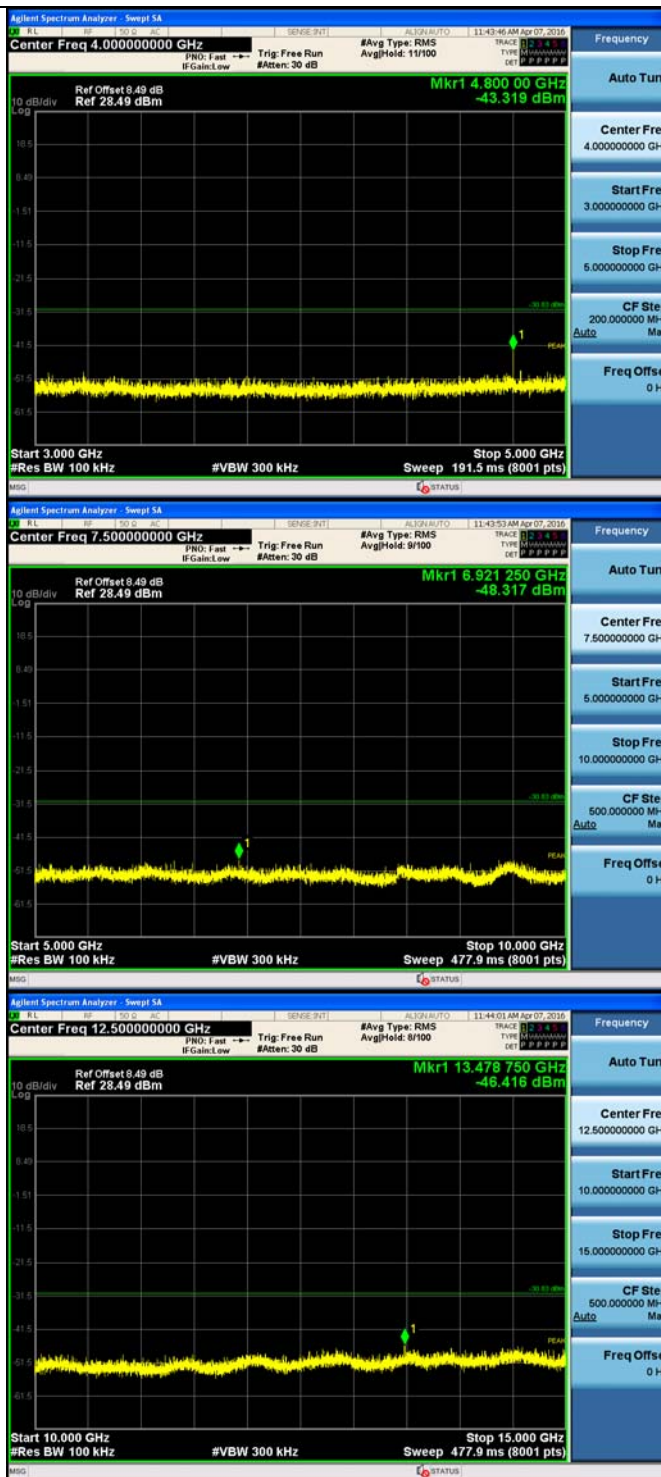


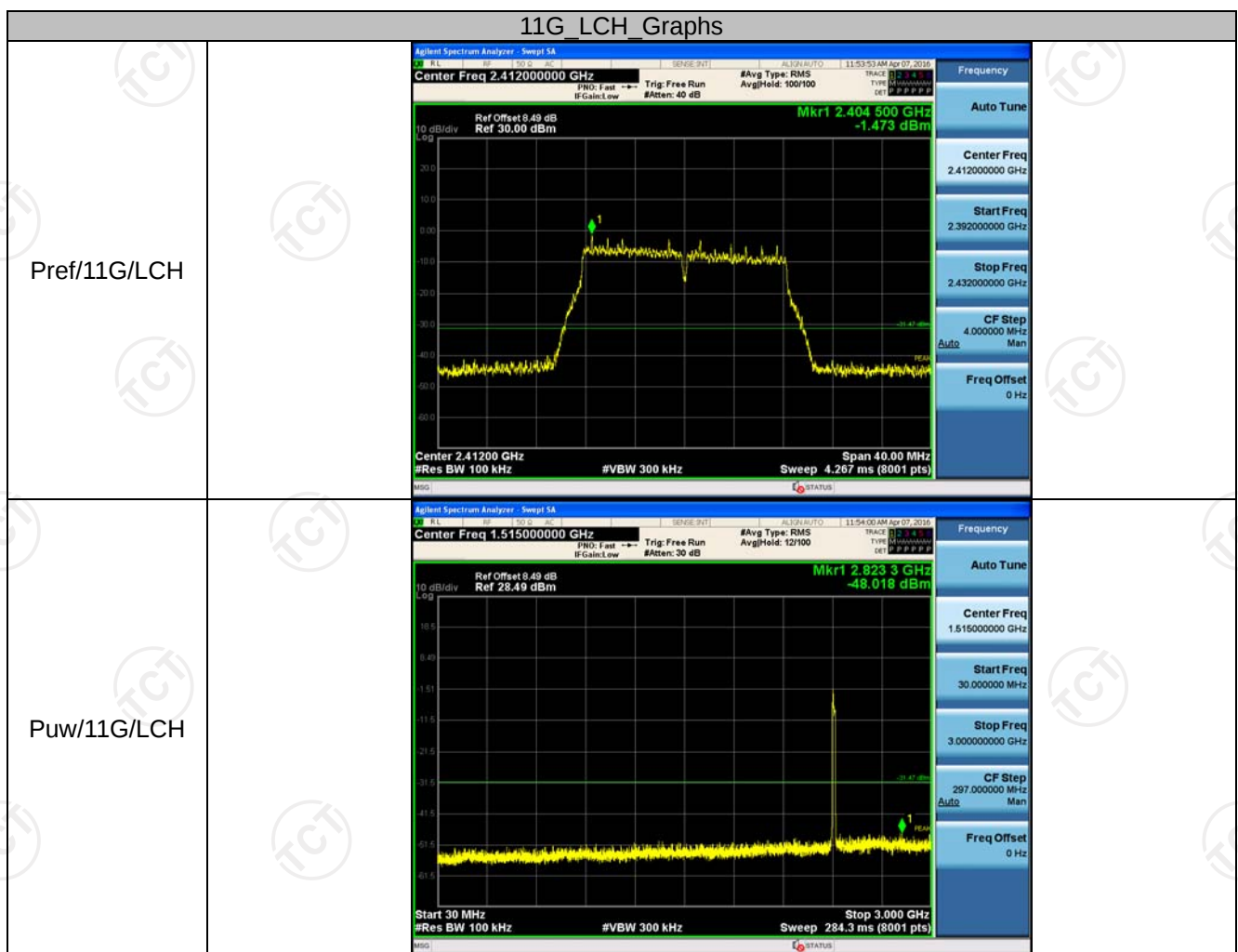
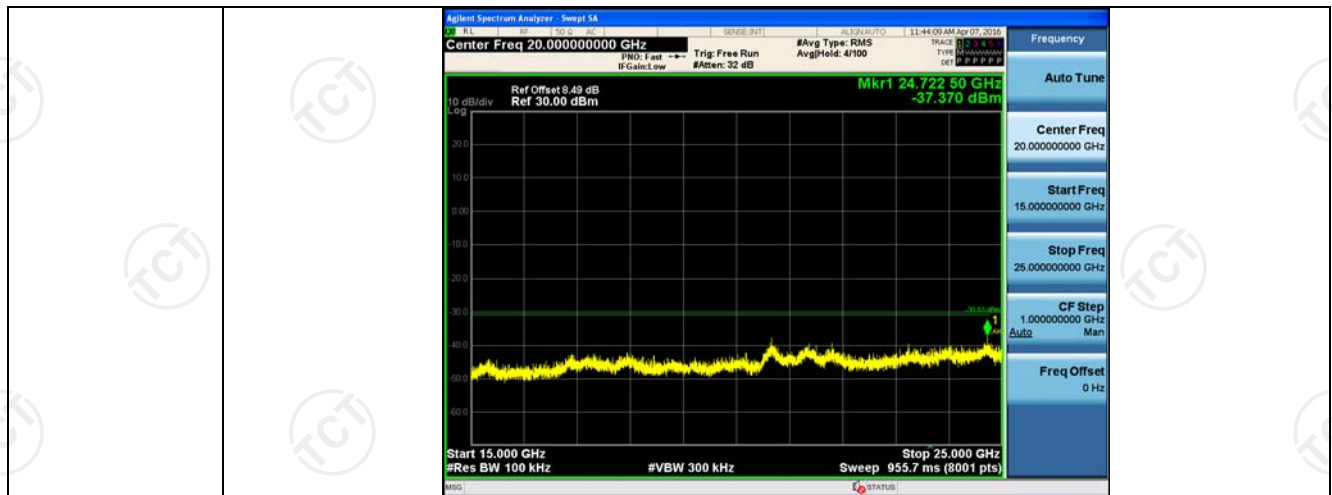


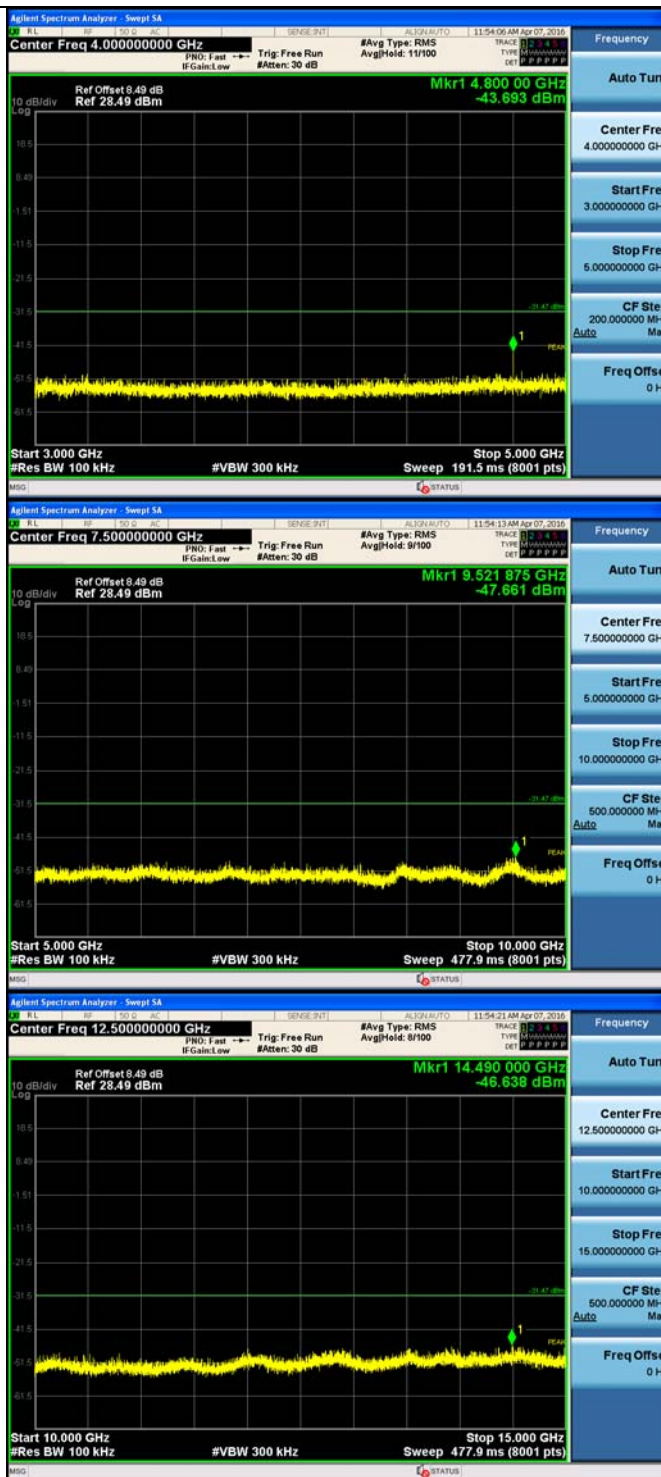


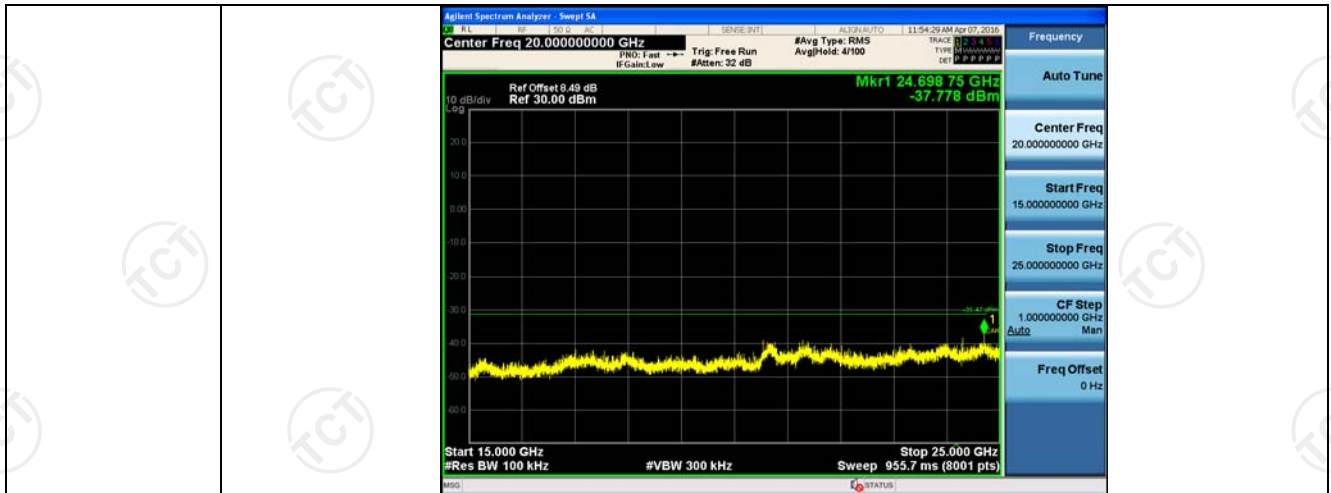
## 11B\_HCH\_Graphs



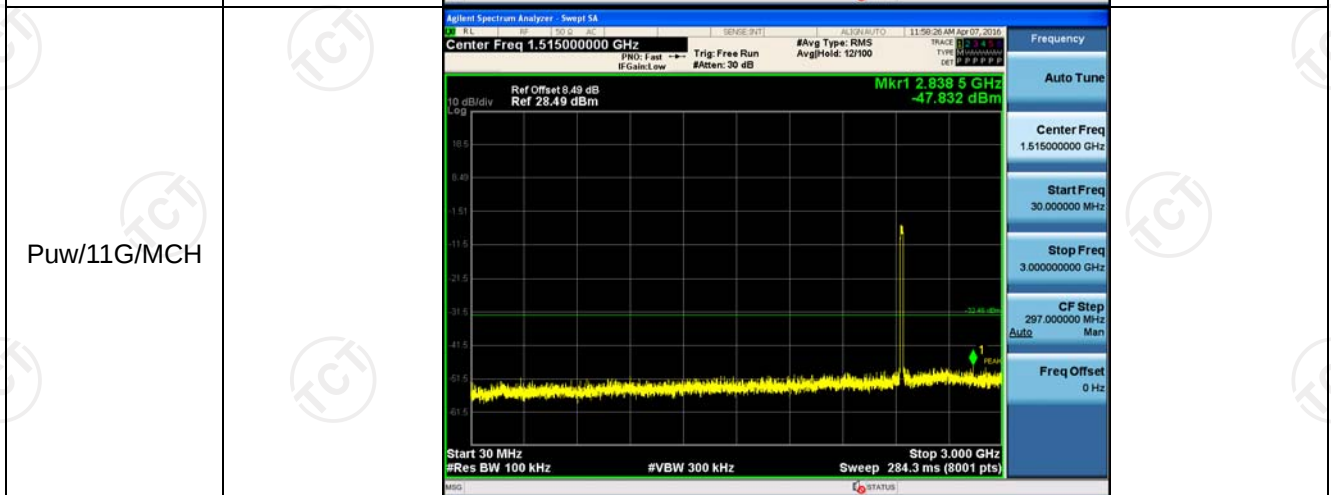
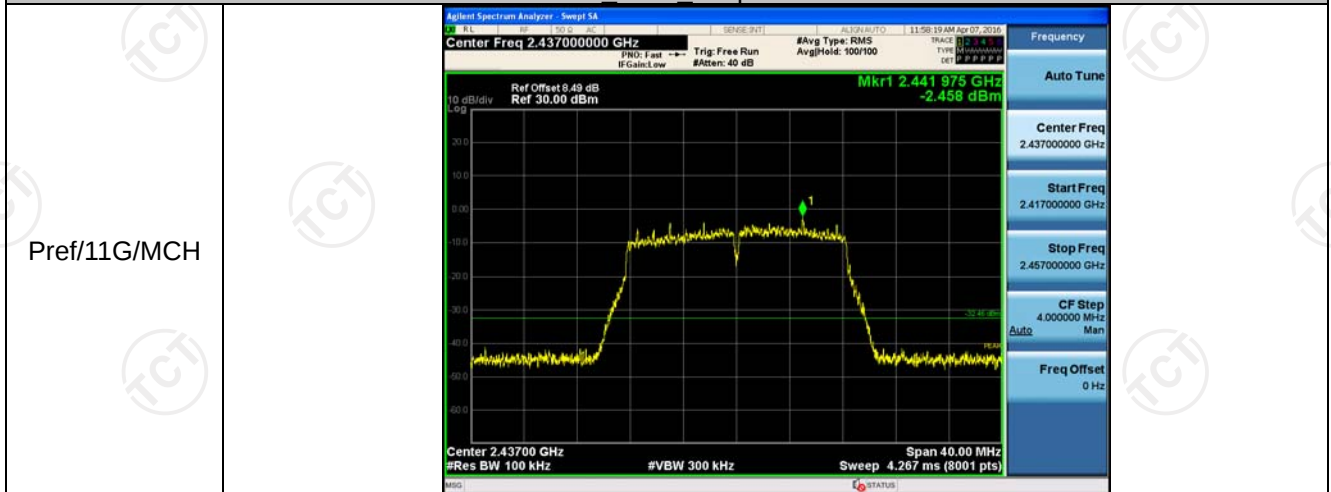


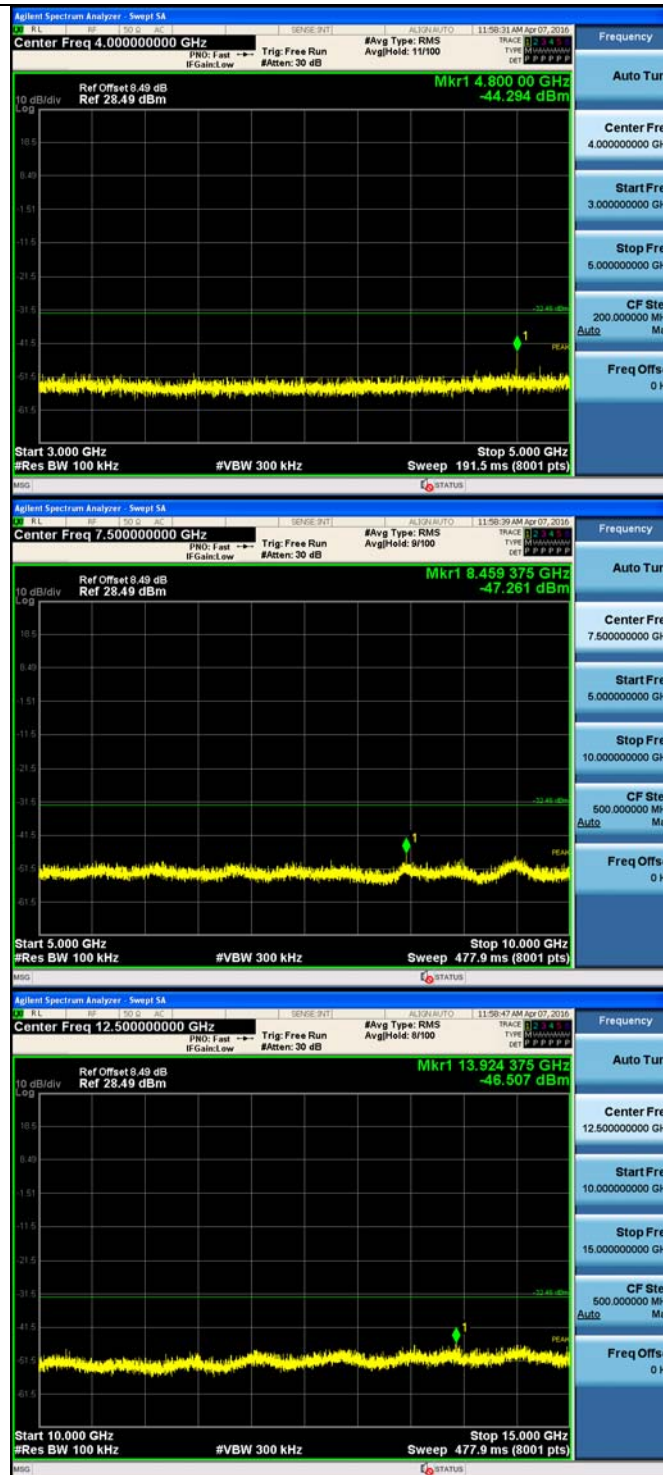


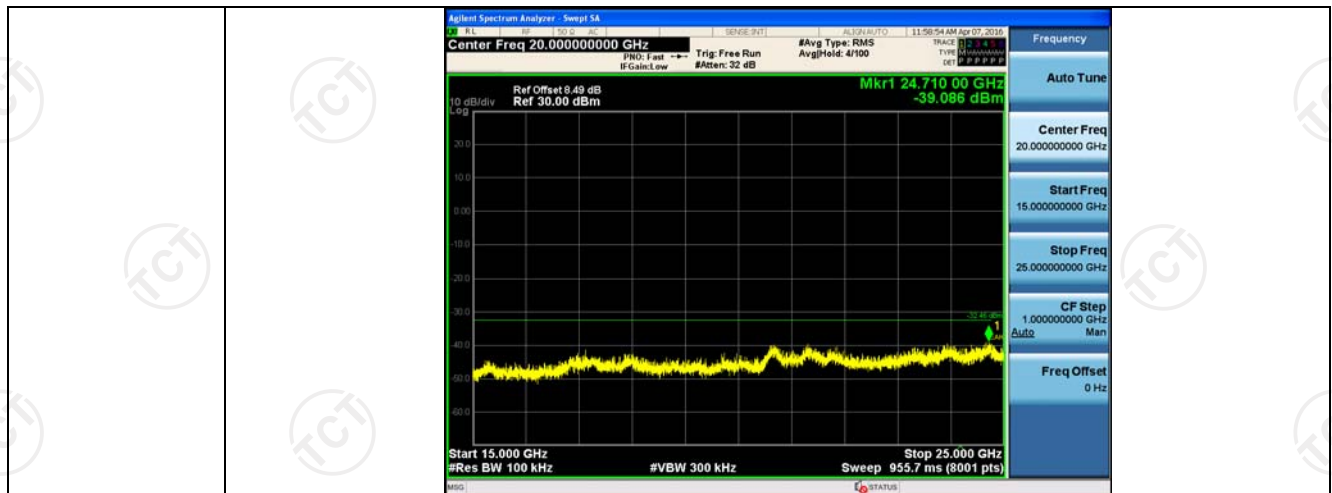




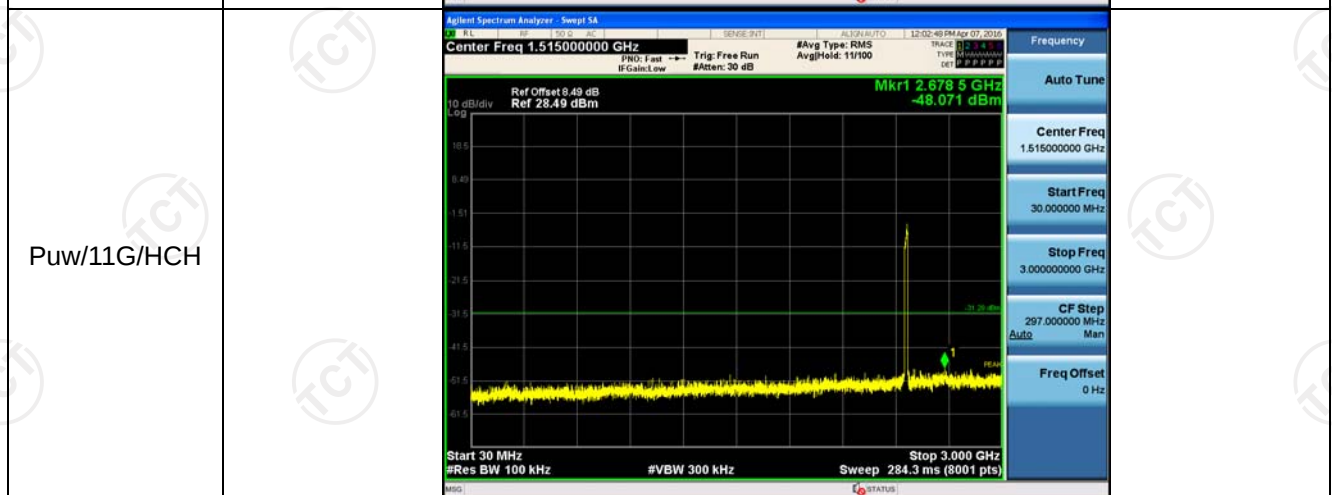
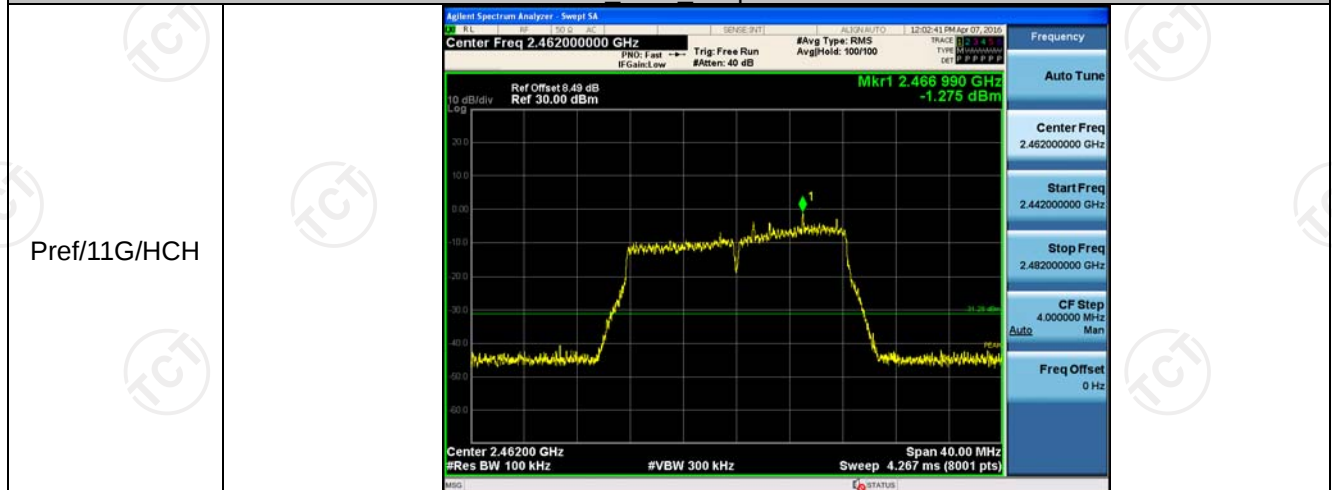
## 11G MCH Graphs

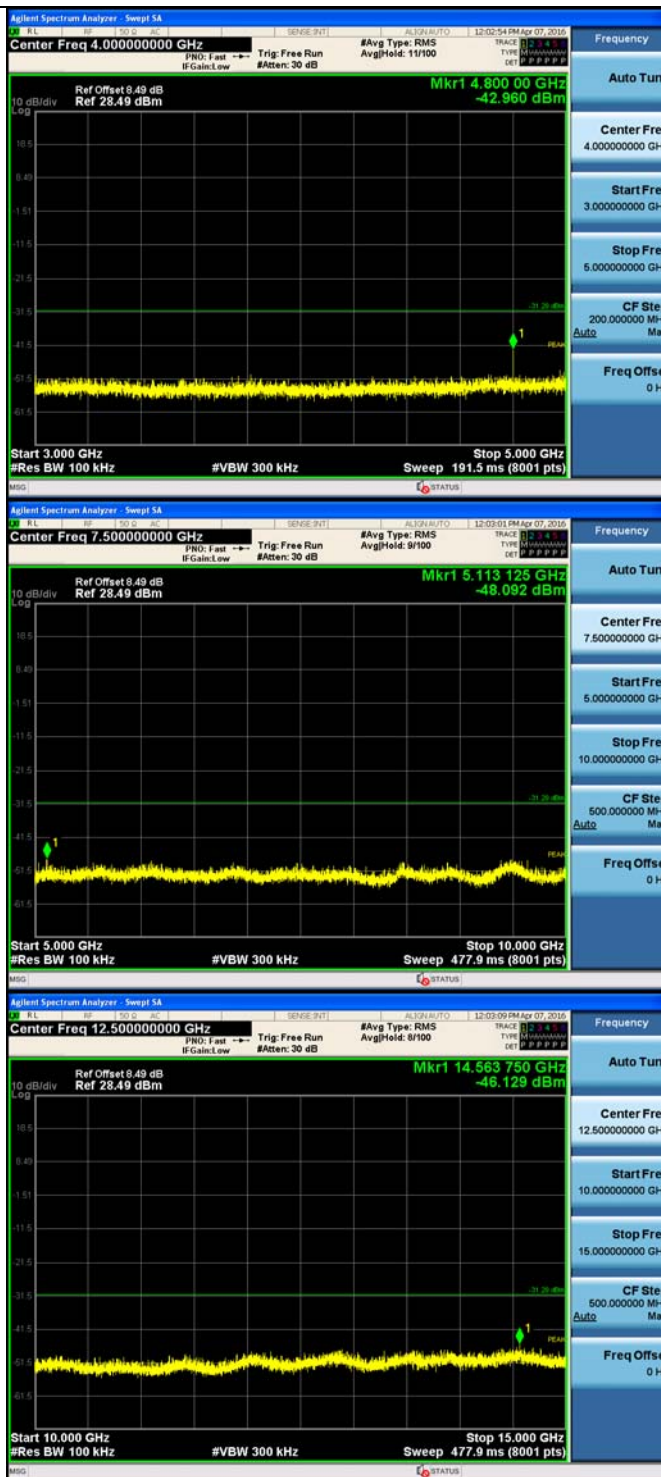


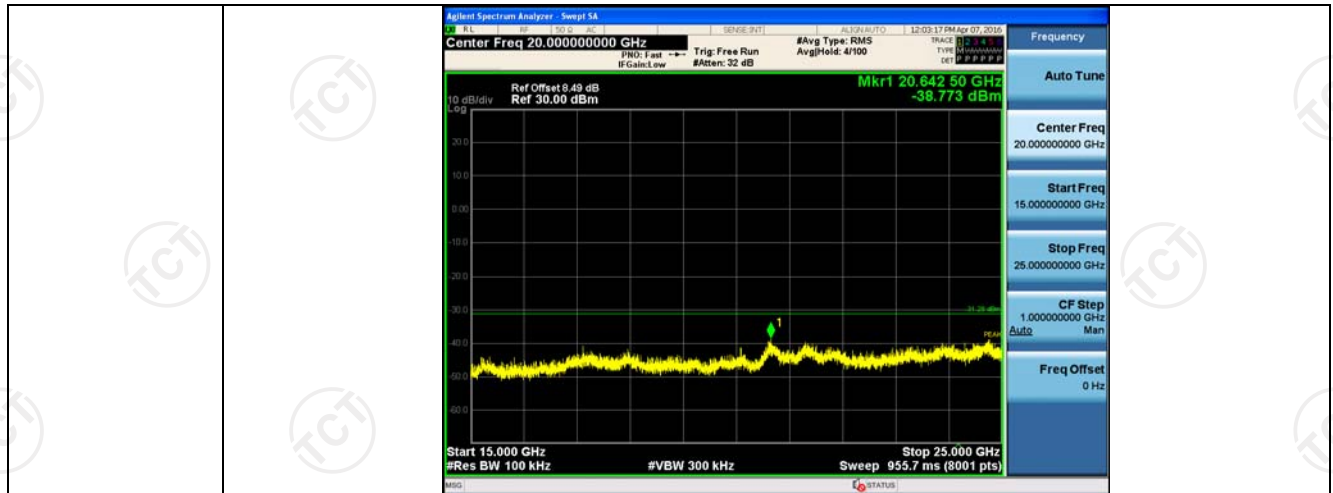




## 11G HCH Graphs

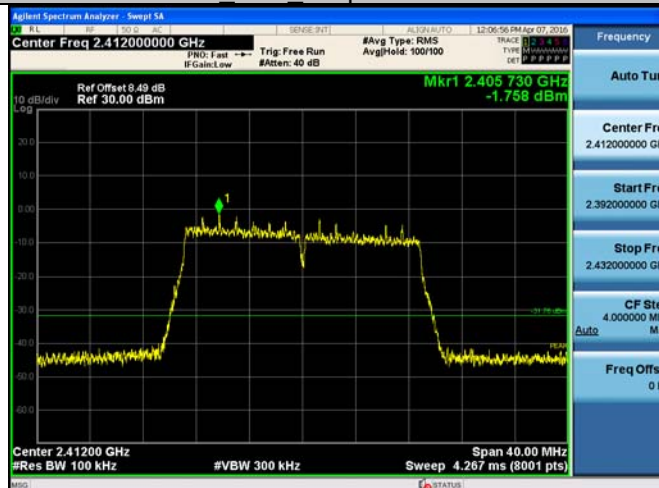




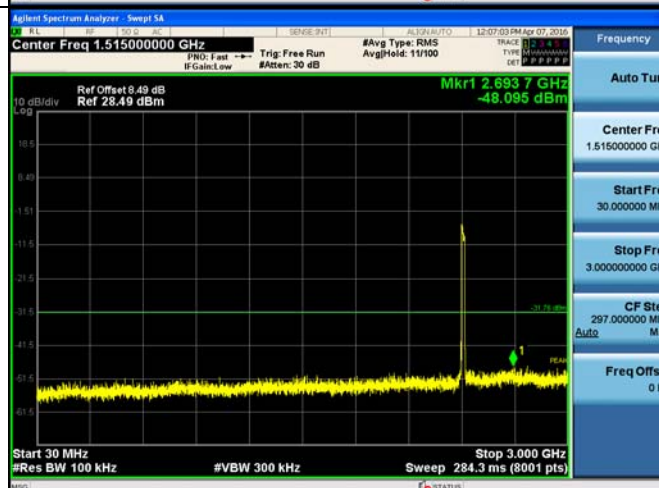


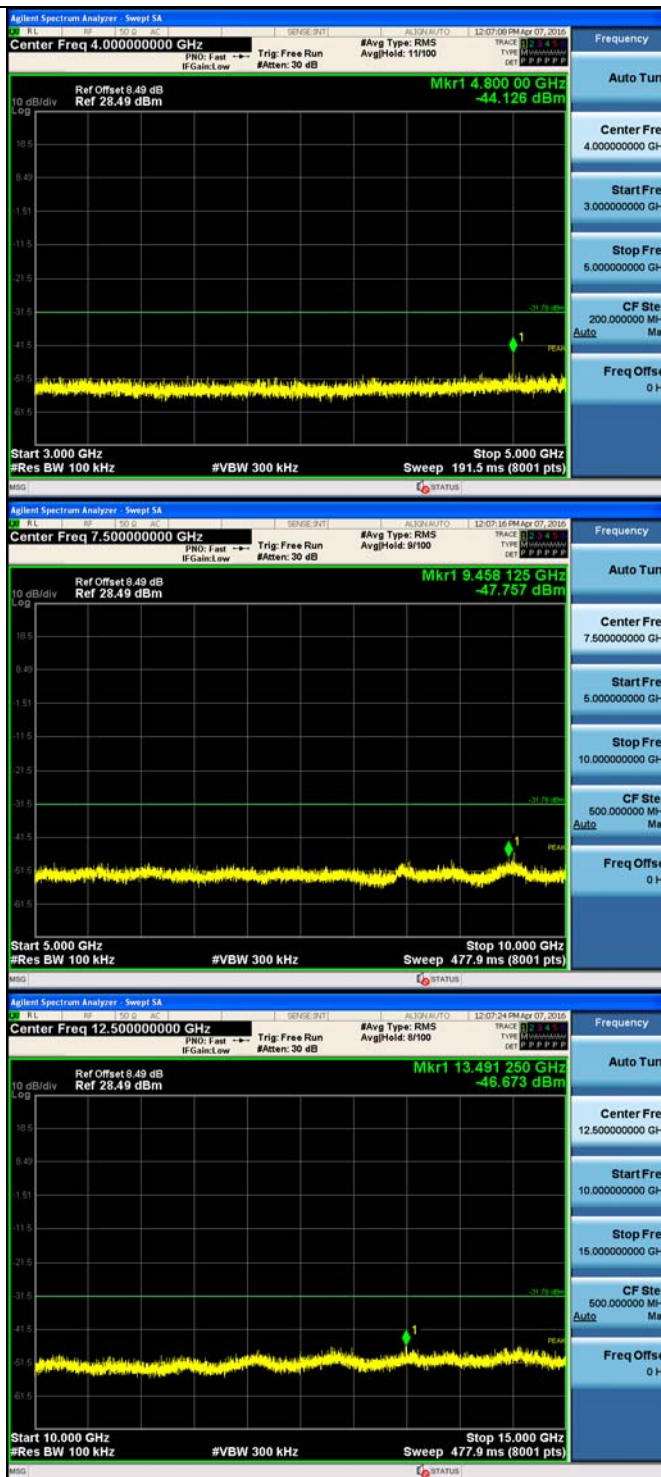
## 11N20SISO LCH Graphs

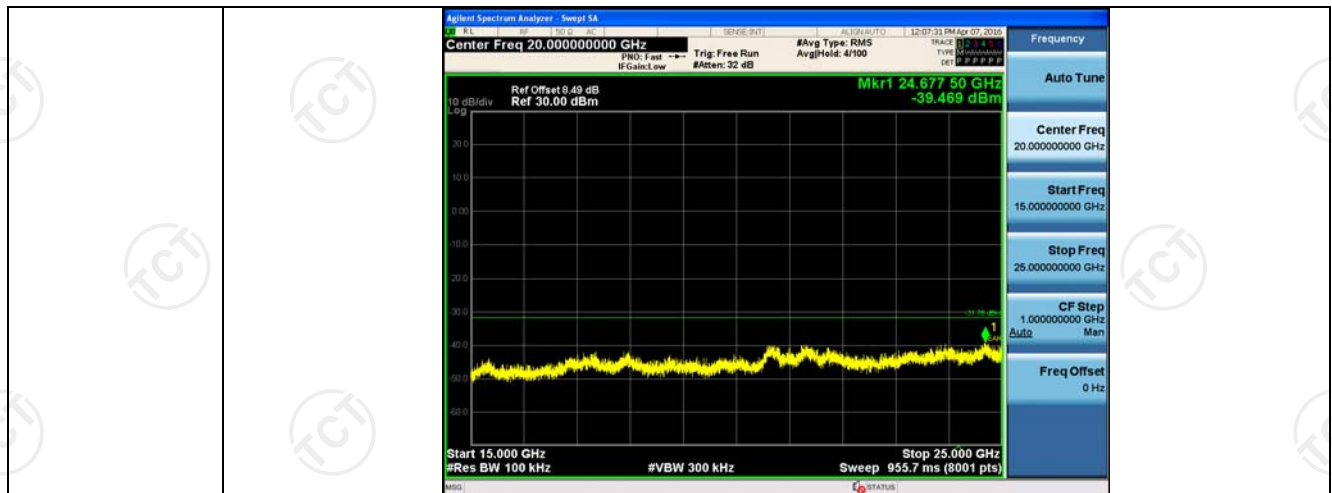
Pref/11N20SIS  
O/LCH



/11N20SISO/L  
CH

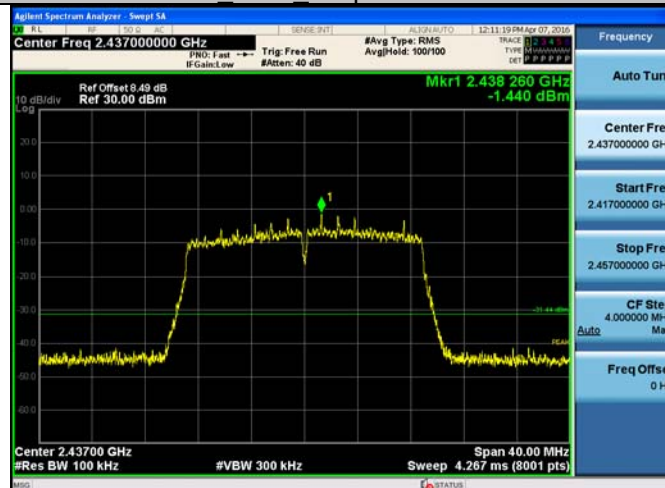




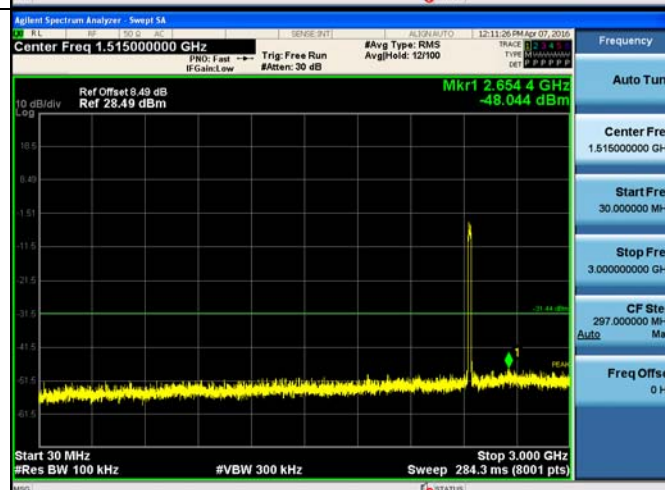


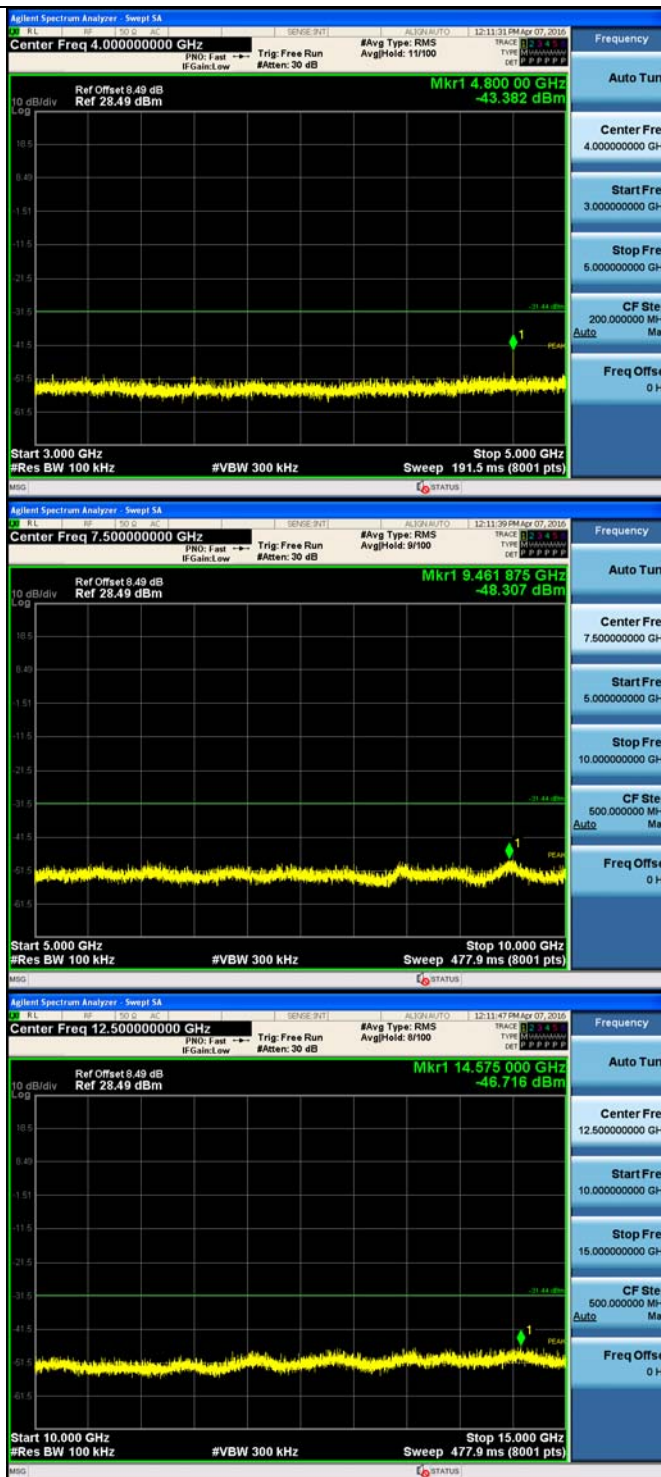
## 11N20SISO MCH Graphs

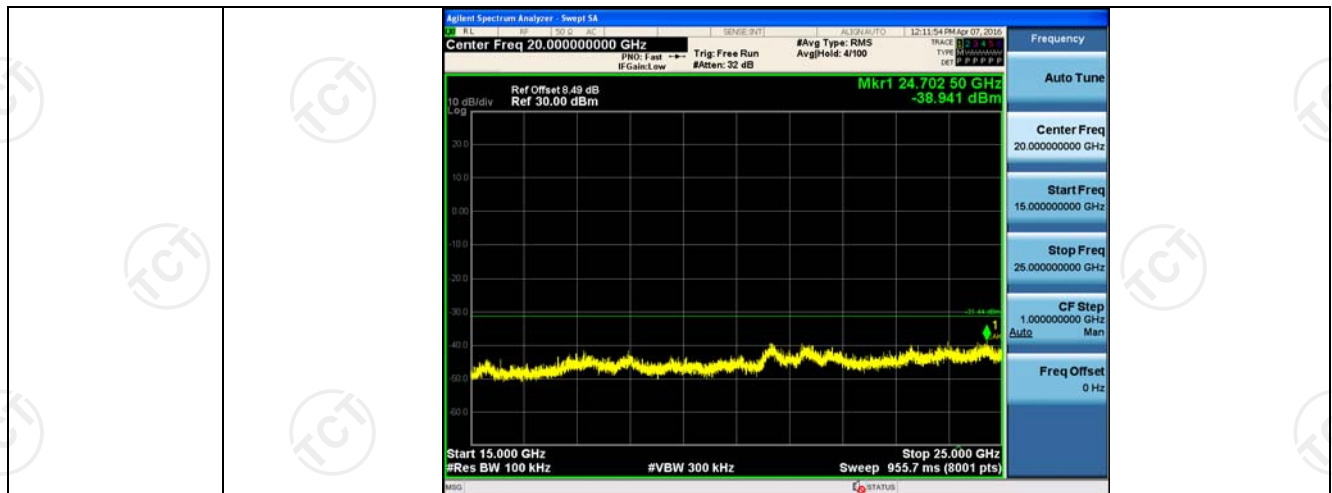
Pref/11N20SIS  
O/MCH



Puw/11N20SIS  
O/MCH





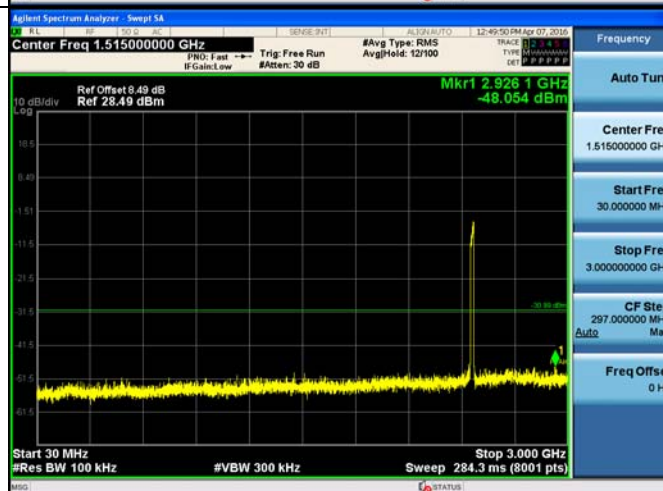


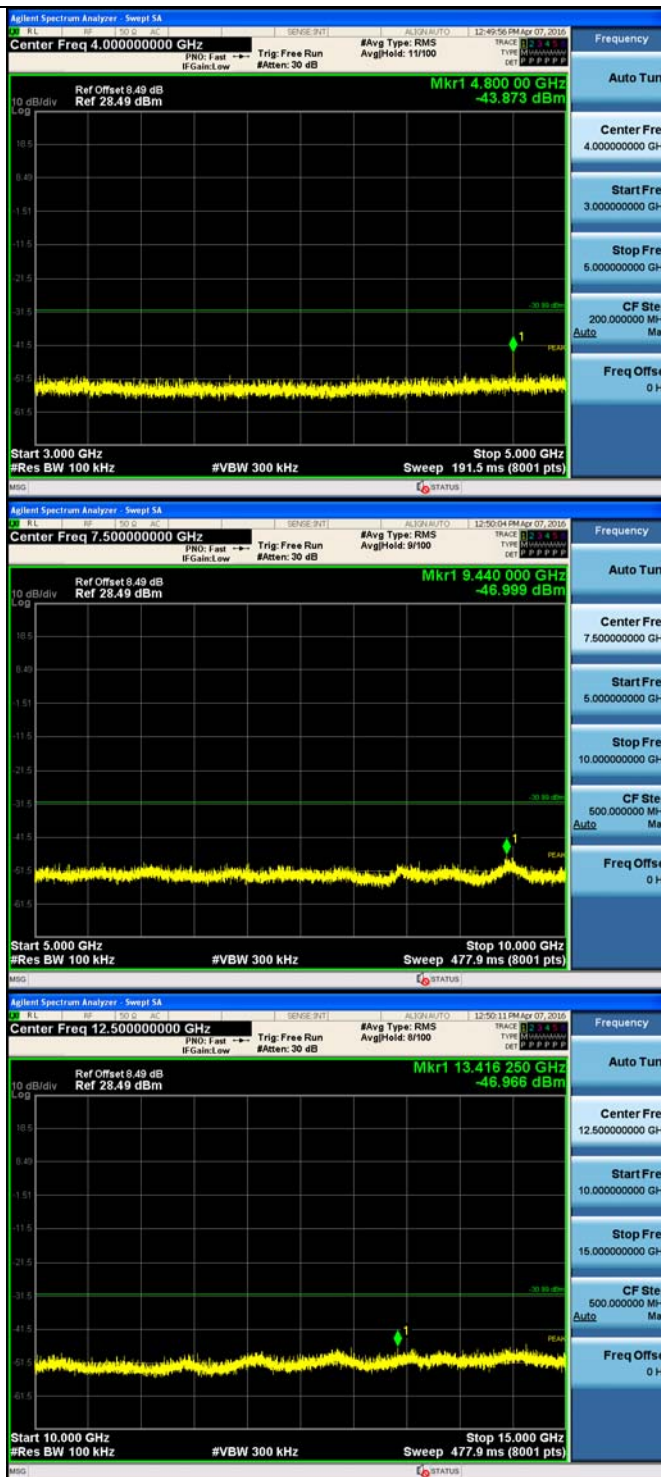
## 11N20SISO HCH Graphs

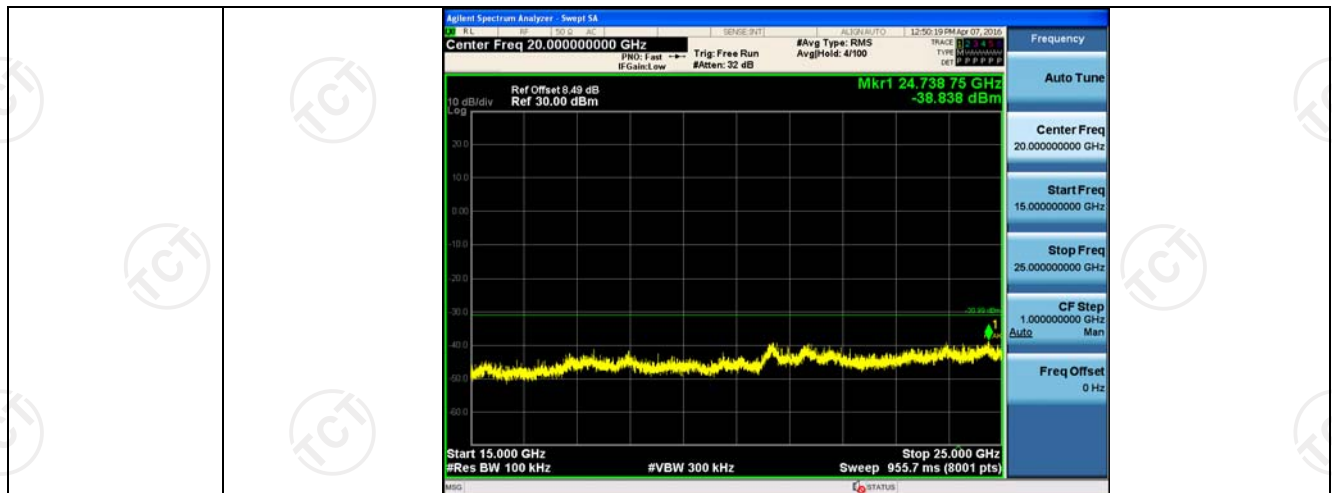
Pref/11N20SIS  
O/HCH



Puw/11N20SIS  
O/HCH

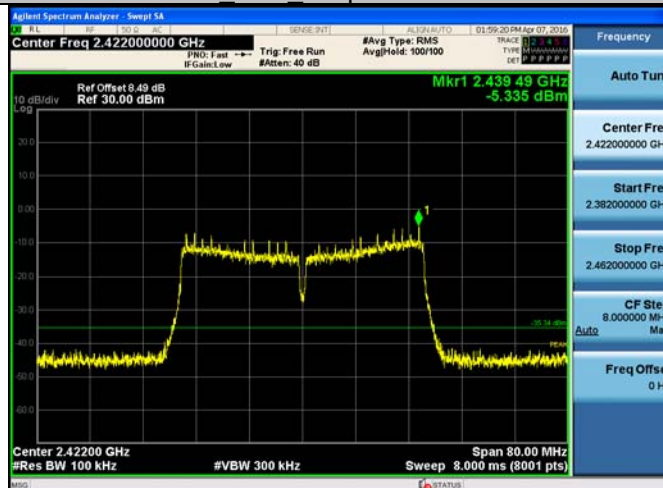




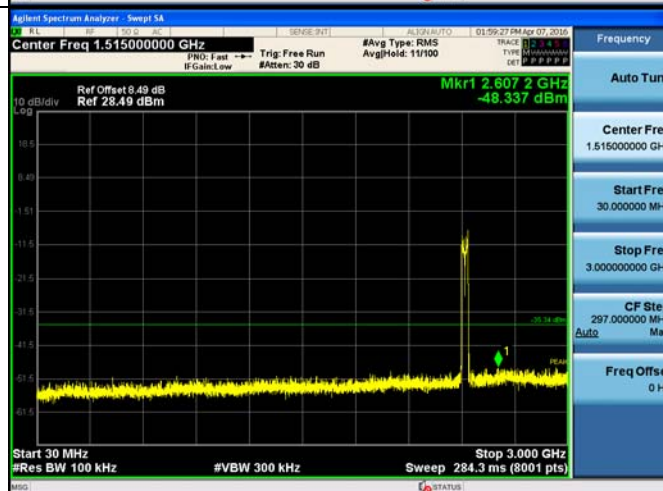


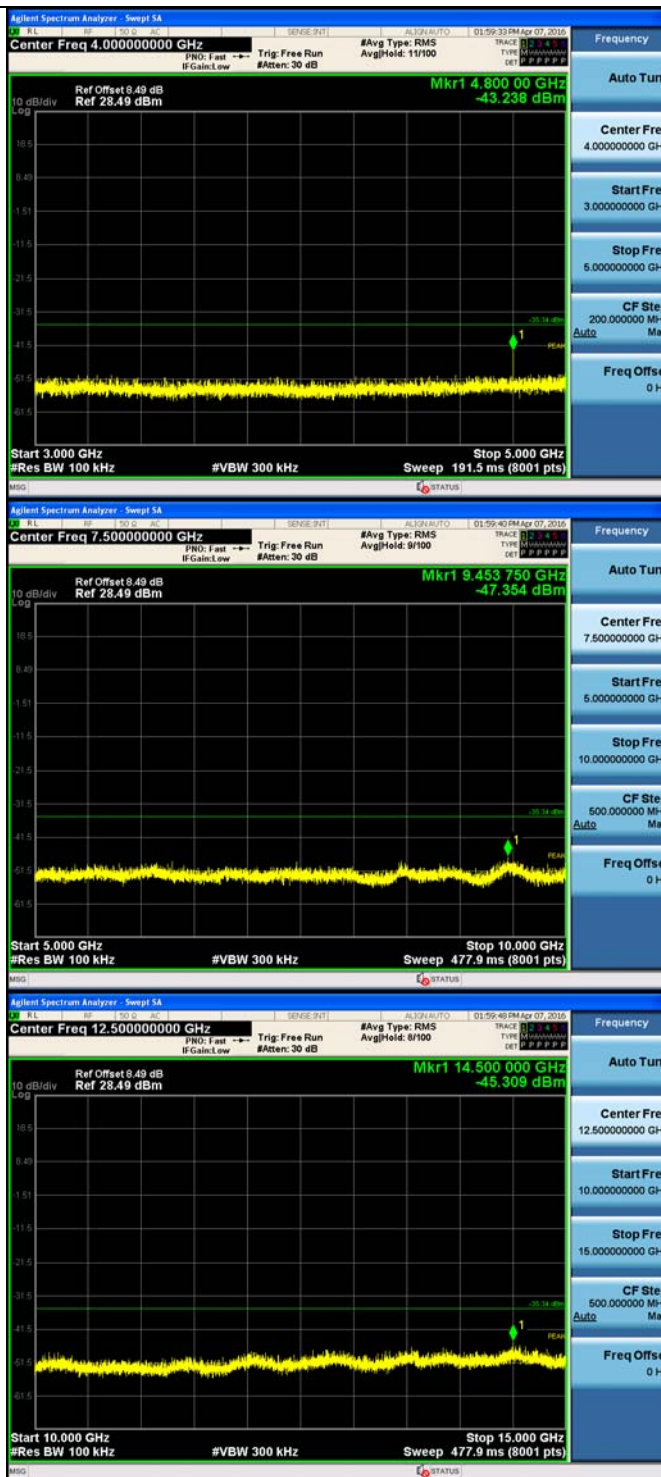
## 11N40SISO LCH Graphs

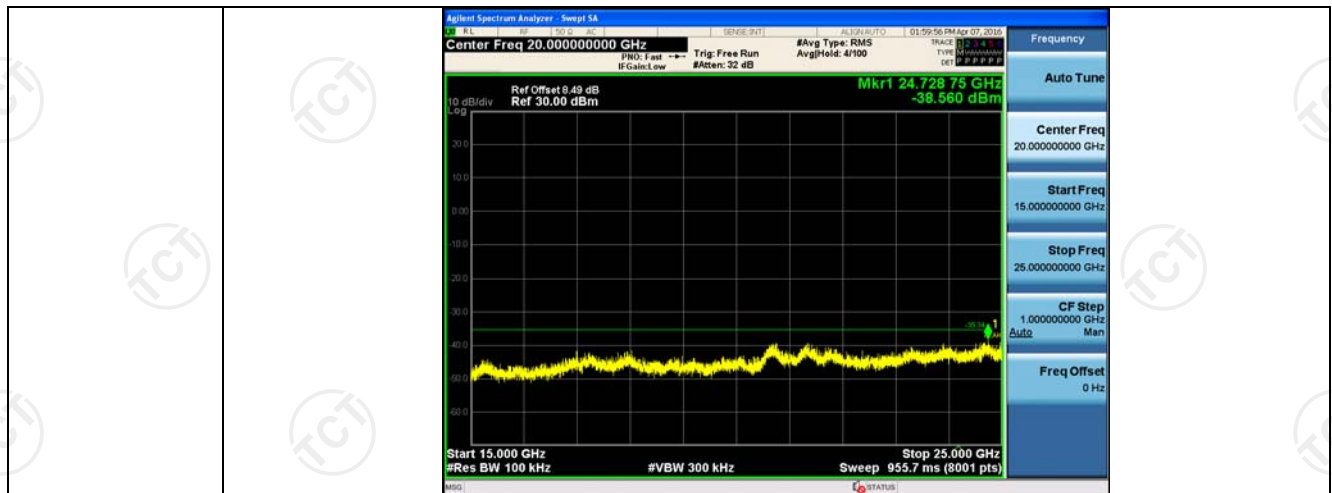
Pref/11N40SIS  
O/LCH



Puw/11N40SIS  
O/LCH

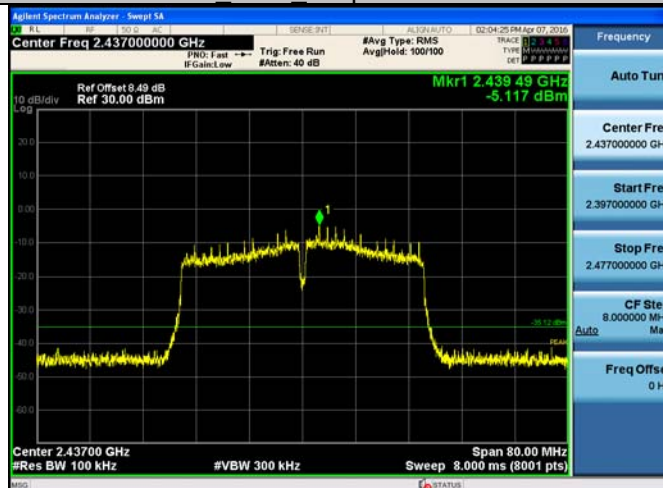




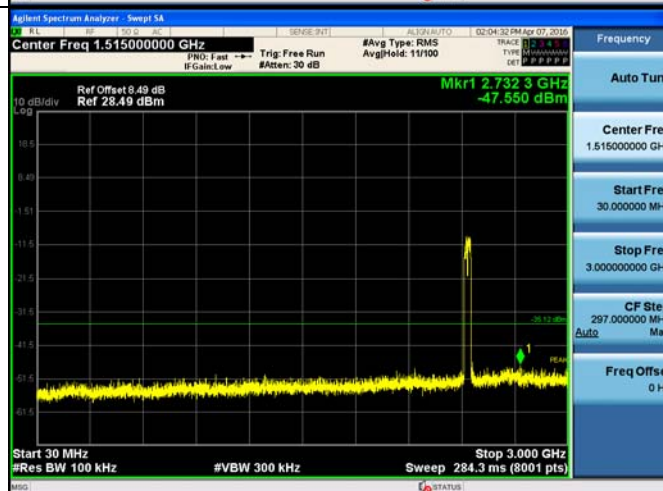


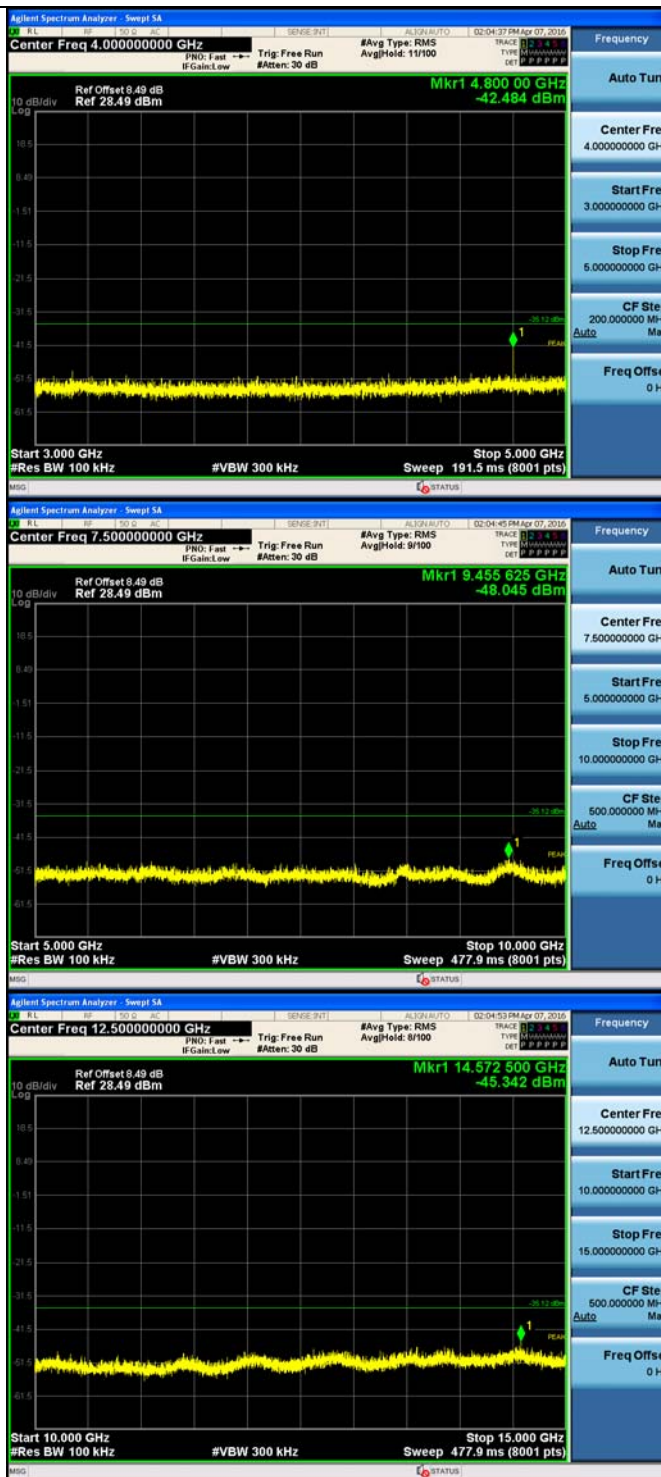
## 11N40SISO MCH Graphs

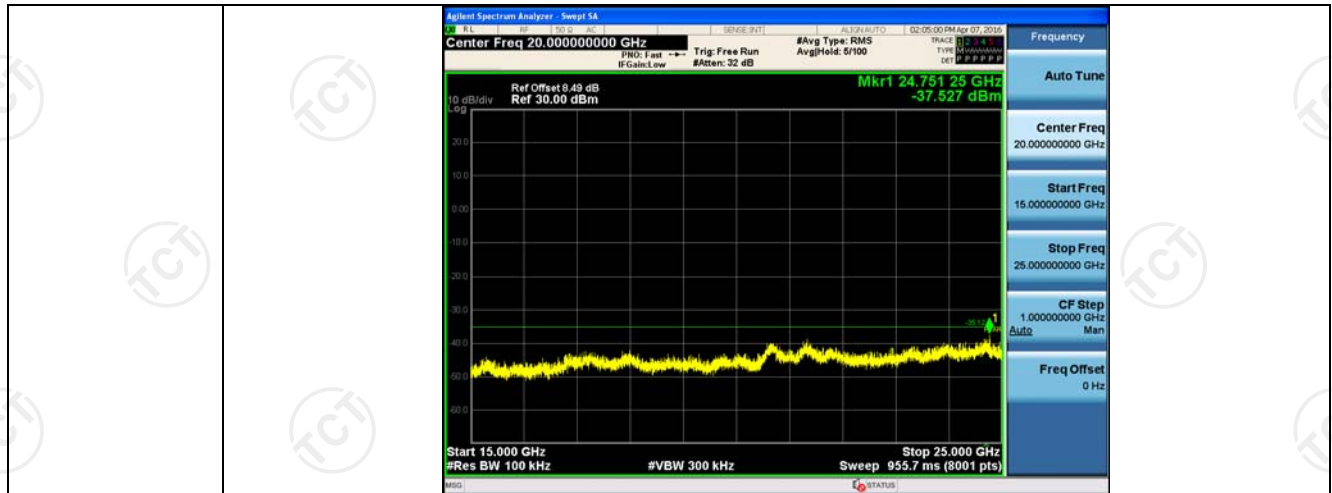
Pref/11N40SIS  
O/MCH



Puw/11N40SIS  
O/MCH





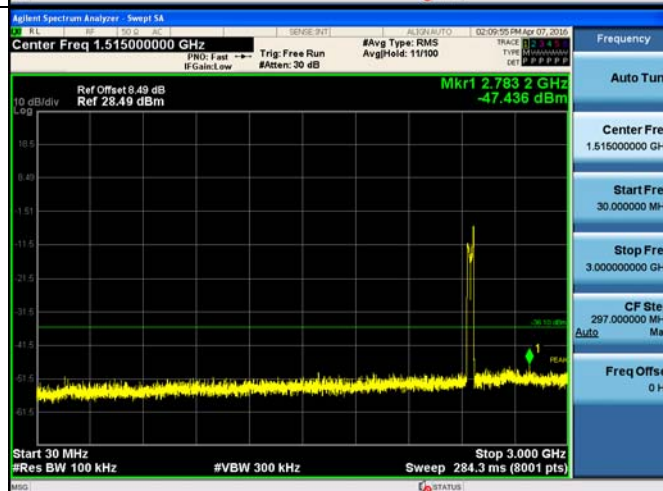


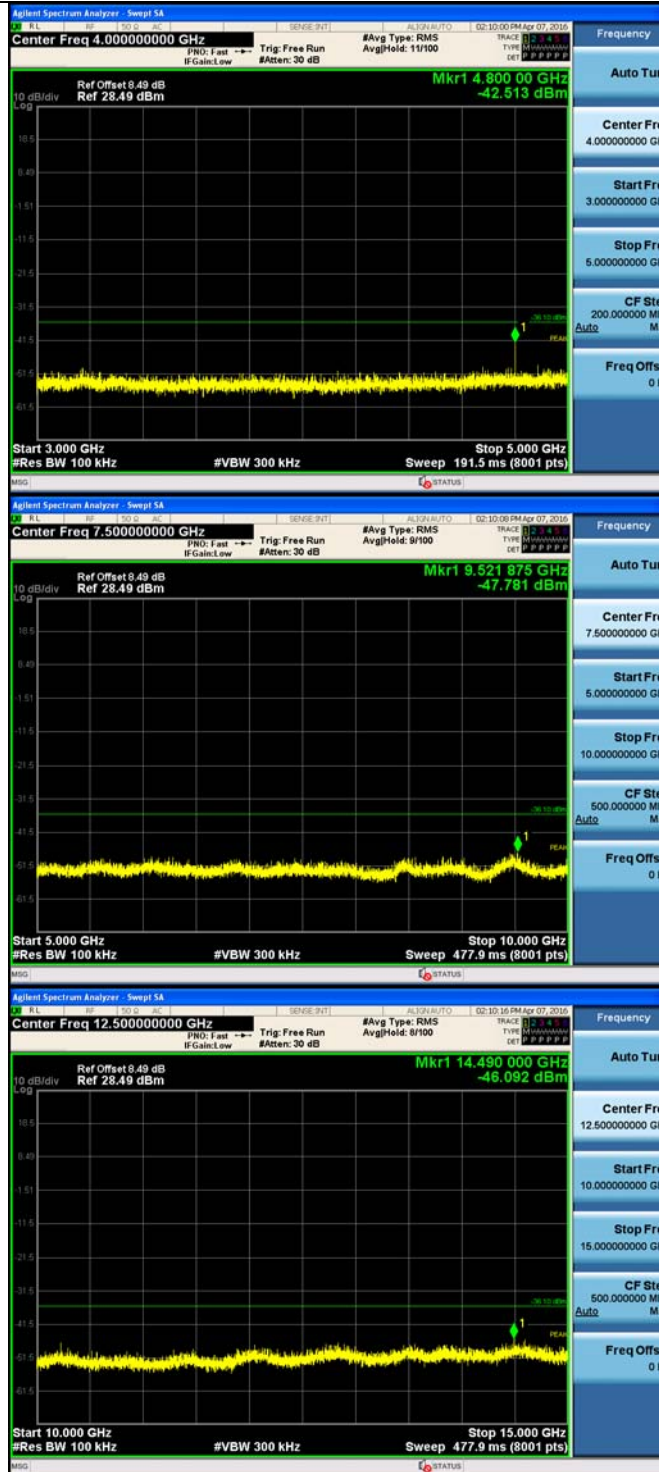
## 11N40SISO HCH Graphs

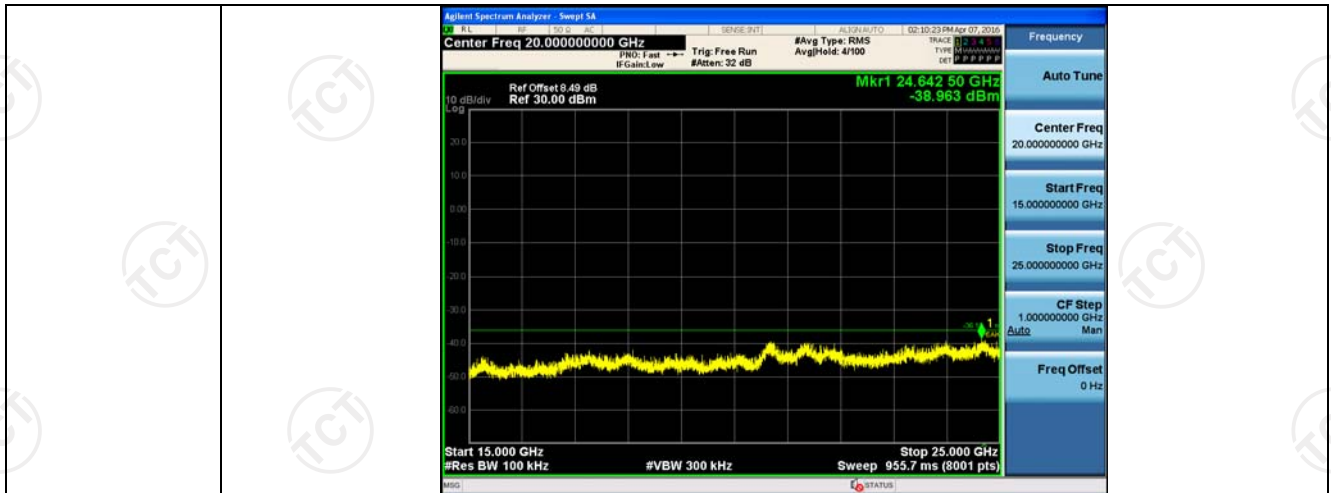
Pref/11N40SIS  
O/HCH



Puw/11N40SIS  
O/HCH







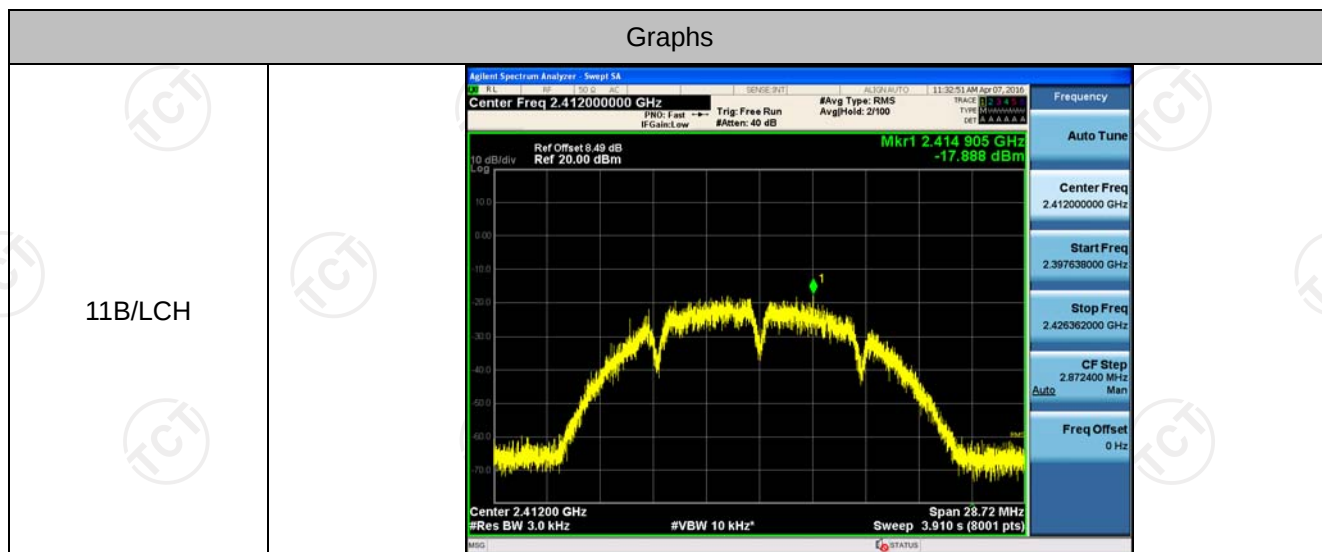
## Power Spectral Density

Result Table

| Mode      | Channel | Meas.Level [dBm] | AV Factor | Av.PSD [dBm] | Verdict |
|-----------|---------|------------------|-----------|--------------|---------|
| 11B       | LCH     | -17.888          | 0.09      | -17.798      | PASS    |
| 11B       | MCH     | -17.310          | 0.09      | -17.22       | PASS    |
| 11B       | HCH     | -19.262          | 0.09      | -19.172      | PASS    |
| 11G       | LCH     | -19.044          | 0.52      | -18.524      | PASS    |
| 11G       | MCH     | -19.902          | 0.51      | -19.392      | PASS    |
| 11G       | HCH     | -20.591          | 0.51      | -20.081      | PASS    |
| 11N20SISO | LCH     | -19.232          | 0.55      | -18.682      | PASS    |
| 11N20SISO | MCH     | -21.405          | 0.56      | -20.845      | PASS    |
| 11N20SISO | HCH     | -20.424          | 0.55      | -19.874      | PASS    |
| 11N40SISO | LCH     | -27.029          | 1.04      | -25.989      | PASS    |
| 11N40SISO | MCH     | -26.301          | 1.06      | -25.241      | PASS    |
| 11N40SISO | HCH     | -27.609          | 1.04      | -26.569      | PASS    |

Note: when duty cycle<98%, Av.Power [dBm] = Meas.Level [dBm] + 10log(1/x);  
X=Duty cycle  
when duty cycle>98%, Av.Power [dBm] = Meas.Level [dBm]

Test Graph



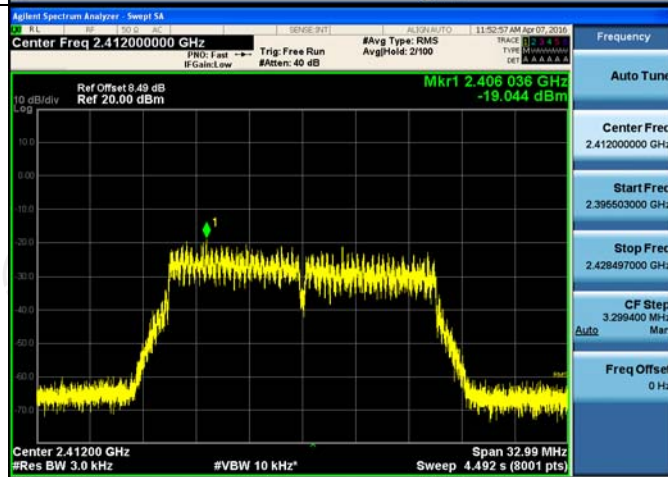
11B/MCH



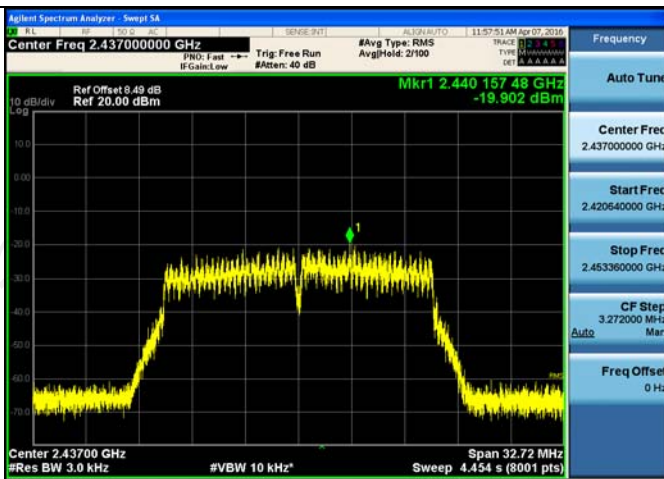
11B/HCH



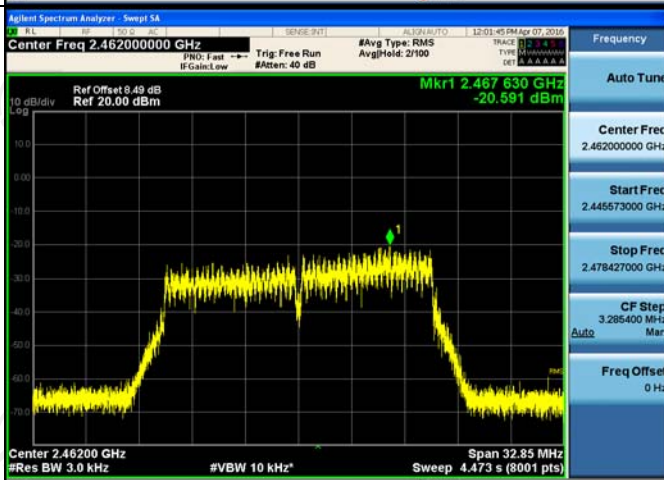
11G/LCH



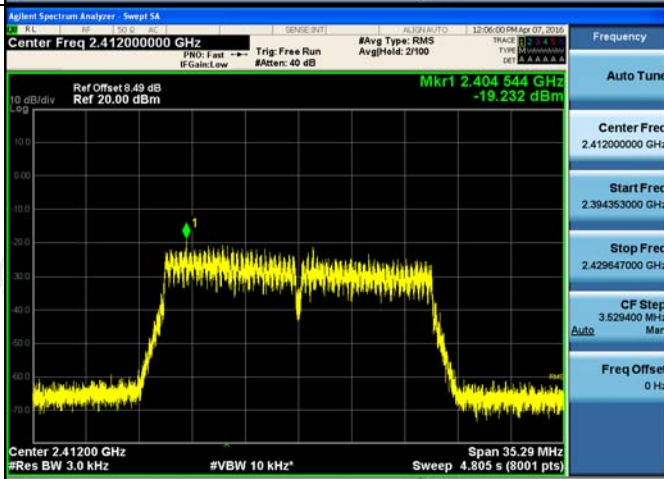
11G/MCH

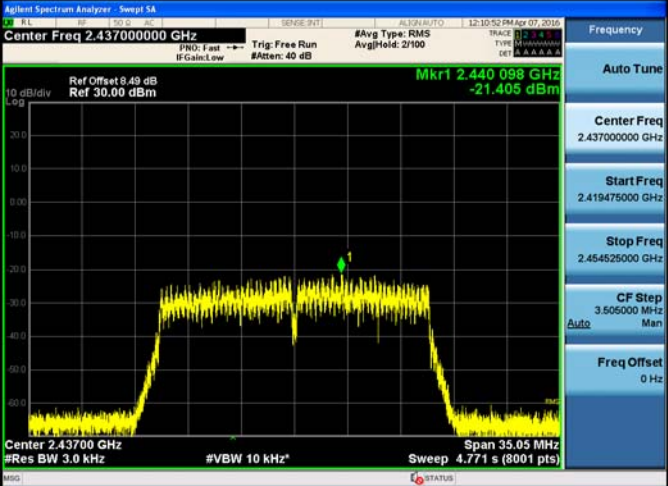
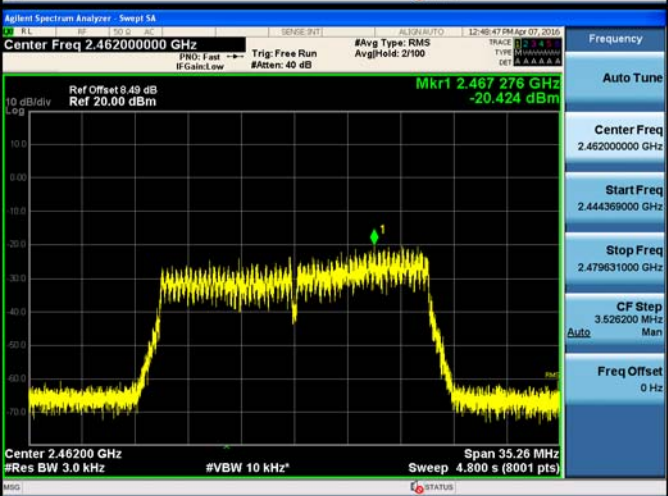
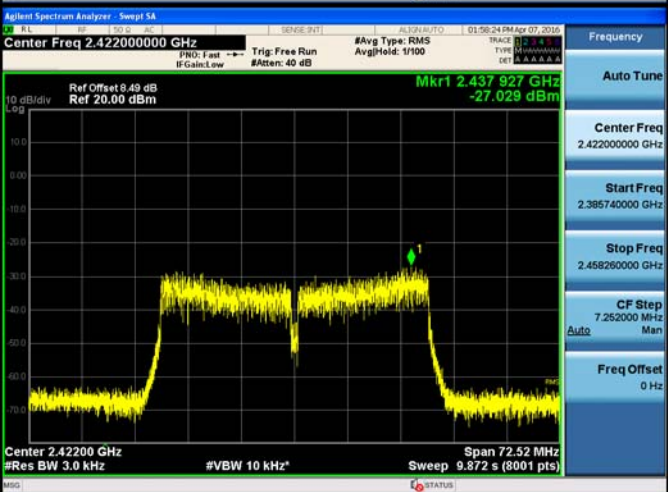


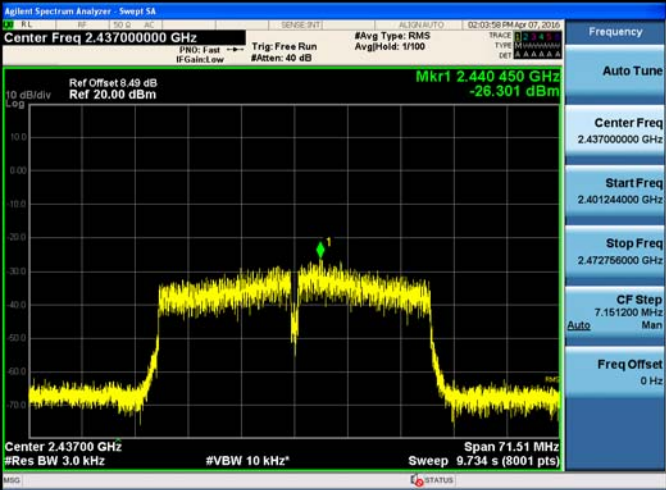
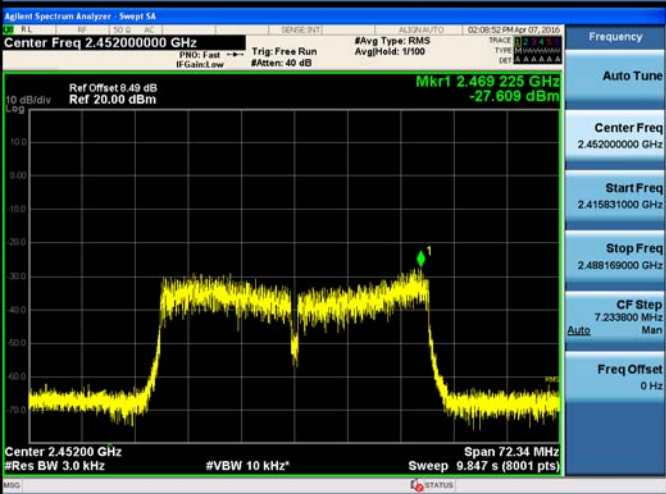
11G/HCH



11N20SISO/LCH



|               |                                                                                      |
|---------------|--------------------------------------------------------------------------------------|
| 11N20SISO/MCH |    |
| 11N20SISO/HCH |   |
| 11N40SISO/LCH |  |

|               |                                                                                     |
|---------------|-------------------------------------------------------------------------------------|
| 11N40SISO/MCH |   |
| 11N40SISO/HCH |  |

## Duty Cycle

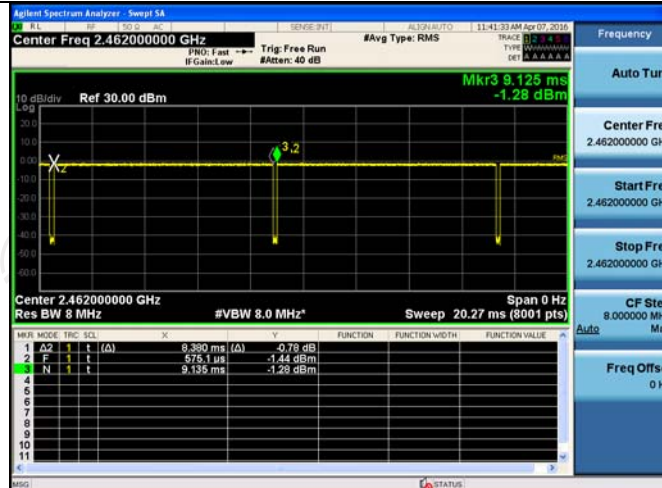
Result Table

| Mode      | Channel | Burst Dwell Time [ms] | Total Dwell Time [ms] | Duty Cycle [%] |
|-----------|---------|-----------------------|-----------------------|----------------|
| 11B       | LCH     | 8.38                  | 8.558                 | 97.92          |
| 11B       | MCH     | 8.38                  | 8.561                 | 97.88          |
| 11B       | HCH     | 8.38                  | 8.560                 | 97.90          |
| 11G       | LCH     | 1.386                 | 1.564                 | 88.65          |
| 11G       | MCH     | 1.388                 | 1.564                 | 88.82          |
| 11G       | HCH     | 1.388                 | 1.563                 | 88.82          |
| 11N20SISO | LCH     | 1.295                 | 1.469                 | 88.10          |
| 11N20SISO | MCH     | 1.295                 | 1.472                 | 87.95          |
| 11N20SISO | HCH     | 1.295                 | 1.470                 | 88.10          |
| 11N40SISO | LCH     | 0.644                 | 0.818                 | 78.64          |
| 11N40SISO | MCH     | 0.641                 | 0.818                 | 78.33          |
| 11N40SISO | HCH     | 0.644                 | 0.819                 | 78.64          |

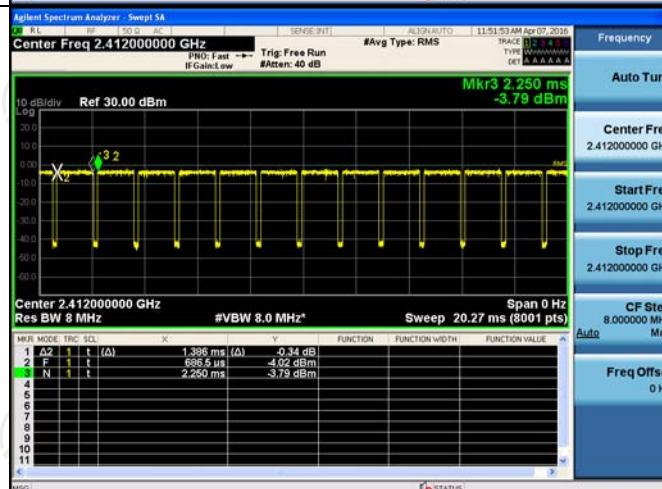
Test Graph



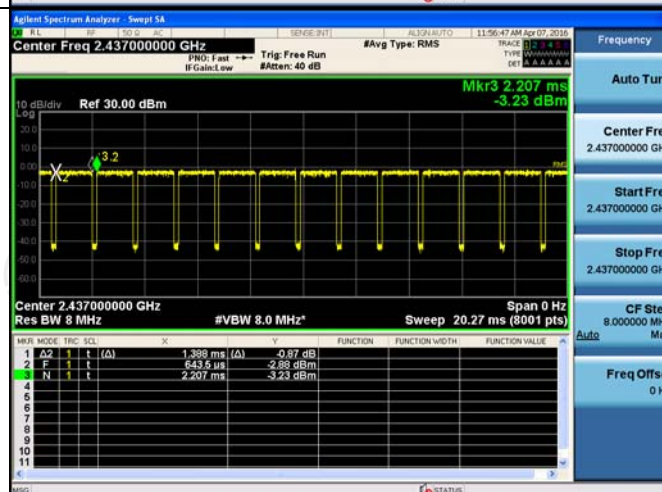
11B/HCH



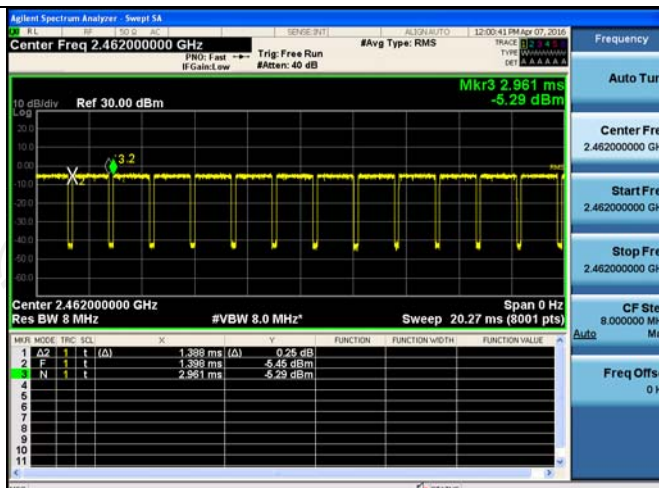
11G/LCH



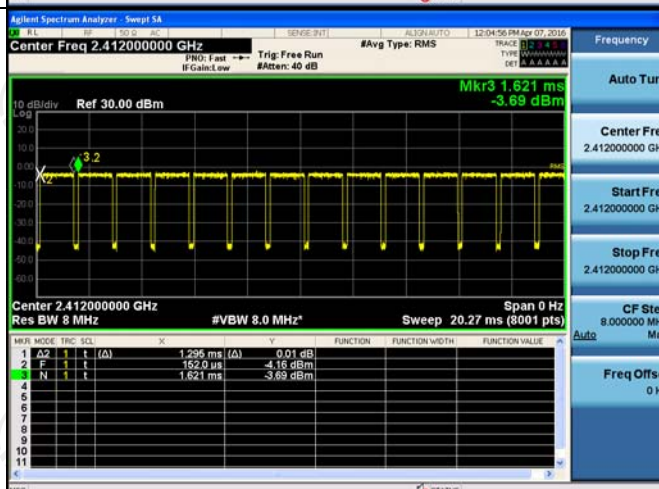
11G/MCH



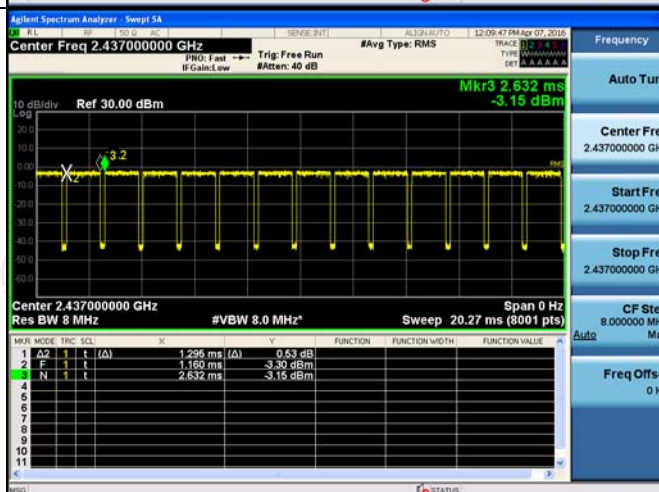
11G/HCH

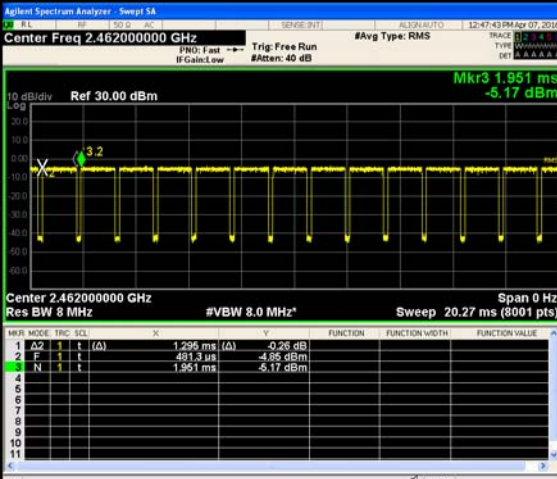
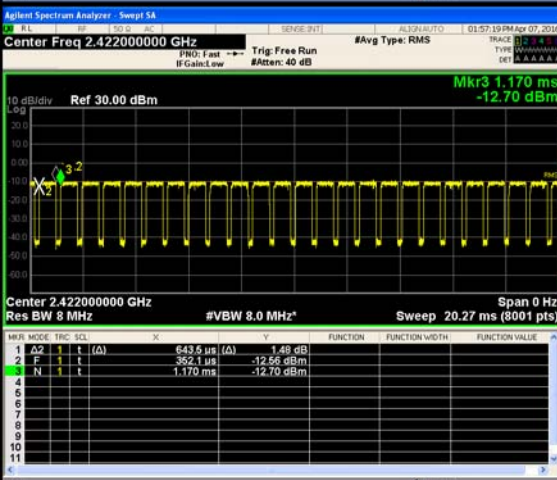
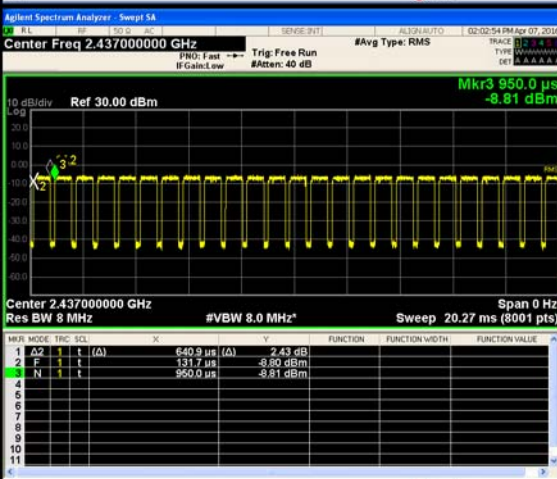


11N20SISO/LCH

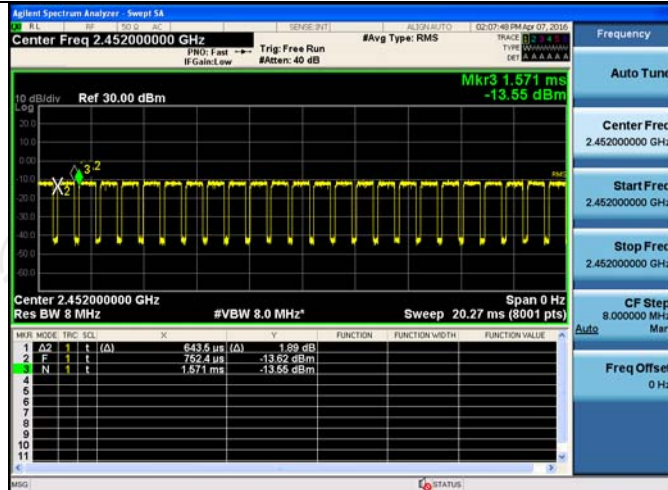


11N20SISO/MCH



| 11N20SISO/HCH |  <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Center Freq 2.462000000 GHz</p> <p>Ref 30.00 dBm</p> <p>Mkr3 1.951 ms -5.17 dBm</p> <p>Center 2.462000000 GHz</p> <p>Res BW 8 MHz</p> <p>#VBW 8.0 MHz*</p> <p>Sweep 20.27 ms (8001 pts)</p> <p>Span 0 Hz</p> <table><tr><th>MKR</th><th>MODE</th><th>TRIG</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>A2</td><td>1</td><td>t</td><td>(Δ)</td><td>1.296 ms (Δ)</td><td>-0.26 dB</td><td></td><td></td></tr><tr><td>2</td><td>F</td><td>1</td><td>t</td><td></td><td>481.3 μs</td><td>-4.85 dBm</td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>t</td><td></td><td>1.951 ms</td><td>-5.17 dBm</td><td></td><td></td></tr></table>    | MKR  | MODE | TRIG | SCL          | X          | Y              | FUNCTION       | FUNCTION WIDTH | FUNCTION VALUE | 1 | A2 | 1 | t | (Δ) | 1.296 ms (Δ) | -0.26 dB |  |  | 2 | F | 1 | t |  | 481.3 μs | -4.85 dBm  |  |  | 3 | N | 1 | t |  | 1.951 ms | -5.17 dBm  |  |  | <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.462000000 GHz</p> <p>Start Freq 2.462000000 GHz</p> <p>Stop Freq 2.462000000 GHz</p> <p>CF Step 8.000000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p> |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|--------------|------------|----------------|----------------|----------------|----------------|---|----|---|---|-----|--------------|----------|--|--|---|---|---|---|--|----------|------------|--|--|---|---|---|---|--|----------|------------|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MKR           | MODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TRIG | SCL  | X    | Y            | FUNCTION   | FUNCTION WIDTH | FUNCTION VALUE |                |                |   |    |   |   |     |              |          |  |  |   |   |   |   |  |          |            |  |  |   |   |   |   |  |          |            |  |  |                                                                                                                                                                                                        |
| 1             | A2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1    | t    | (Δ)  | 1.296 ms (Δ) | -0.26 dB   |                |                |                |                |   |    |   |   |     |              |          |  |  |   |   |   |   |  |          |            |  |  |   |   |   |   |  |          |            |  |  |                                                                                                                                                                                                        |
| 2             | F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1    | t    |      | 481.3 μs     | -4.85 dBm  |                |                |                |                |   |    |   |   |     |              |          |  |  |   |   |   |   |  |          |            |  |  |   |   |   |   |  |          |            |  |  |                                                                                                                                                                                                        |
| 3             | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1    | t    |      | 1.951 ms     | -5.17 dBm  |                |                |                |                |   |    |   |   |     |              |          |  |  |   |   |   |   |  |          |            |  |  |   |   |   |   |  |          |            |  |  |                                                                                                                                                                                                        |
| 11N40SISO/LCH |  <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Center Freq 2.422000000 GHz</p> <p>Ref 30.00 dBm</p> <p>Mkr3 1.170 ms -12.70 dBm</p> <p>Center 2.422000000 GHz</p> <p>Res BW 8 MHz</p> <p>#VBW 8.0 MHz*</p> <p>Sweep 20.27 ms (8001 pts)</p> <p>Span 0 Hz</p> <table><tr><th>MKR</th><th>MODE</th><th>TRIG</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>A2</td><td>1</td><td>t</td><td>(Δ)</td><td>643.6 μs (Δ)</td><td>1.48 dB</td><td></td><td></td></tr><tr><td>2</td><td>F</td><td>1</td><td>t</td><td></td><td>352.1 μs</td><td>-12.56 dBm</td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>t</td><td></td><td>1.170 ms</td><td>-12.70 dBm</td><td></td><td></td></tr></table> | MKR  | MODE | TRIG | SCL          | X          | Y              | FUNCTION       | FUNCTION WIDTH | FUNCTION VALUE | 1 | A2 | 1 | t | (Δ) | 643.6 μs (Δ) | 1.48 dB  |  |  | 2 | F | 1 | t |  | 352.1 μs | -12.56 dBm |  |  | 3 | N | 1 | t |  | 1.170 ms | -12.70 dBm |  |  | <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.422000000 GHz</p> <p>Start Freq 2.422000000 GHz</p> <p>Stop Freq 2.422000000 GHz</p> <p>CF Step 8.000000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p> |
| MKR           | MODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TRIG | SCL  | X    | Y            | FUNCTION   | FUNCTION WIDTH | FUNCTION VALUE |                |                |   |    |   |   |     |              |          |  |  |   |   |   |   |  |          |            |  |  |   |   |   |   |  |          |            |  |  |                                                                                                                                                                                                        |
| 1             | A2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1    | t    | (Δ)  | 643.6 μs (Δ) | 1.48 dB    |                |                |                |                |   |    |   |   |     |              |          |  |  |   |   |   |   |  |          |            |  |  |   |   |   |   |  |          |            |  |  |                                                                                                                                                                                                        |
| 2             | F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1    | t    |      | 352.1 μs     | -12.56 dBm |                |                |                |                |   |    |   |   |     |              |          |  |  |   |   |   |   |  |          |            |  |  |   |   |   |   |  |          |            |  |  |                                                                                                                                                                                                        |
| 3             | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1    | t    |      | 1.170 ms     | -12.70 dBm |                |                |                |                |   |    |   |   |     |              |          |  |  |   |   |   |   |  |          |            |  |  |   |   |   |   |  |          |            |  |  |                                                                                                                                                                                                        |
| 11N40SISO/MCH |  <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Center Freq 2.437000000 GHz</p> <p>Ref 30.00 dBm</p> <p>Mkr3 950.0 μs -8.81 dBm</p> <p>Center 2.437000000 GHz</p> <p>Res BW 8 MHz</p> <p>#VBW 8.0 MHz*</p> <p>Sweep 20.27 ms (8001 pts)</p> <p>Span 0 Hz</p> <table><tr><th>MKR</th><th>MODE</th><th>TRIG</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>A2</td><td>1</td><td>t</td><td>(Δ)</td><td>640.9 μs (Δ)</td><td>2.43 dB</td><td></td><td></td></tr><tr><td>2</td><td>F</td><td>1</td><td>t</td><td></td><td>131.7 μs</td><td>-9.30 dBm</td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>t</td><td></td><td>950.0 μs</td><td>-8.81 dBm</td><td></td><td></td></tr></table>   | MKR  | MODE | TRIG | SCL          | X          | Y              | FUNCTION       | FUNCTION WIDTH | FUNCTION VALUE | 1 | A2 | 1 | t | (Δ) | 640.9 μs (Δ) | 2.43 dB  |  |  | 2 | F | 1 | t |  | 131.7 μs | -9.30 dBm  |  |  | 3 | N | 1 | t |  | 950.0 μs | -8.81 dBm  |  |  | <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.437000000 GHz</p> <p>Start Freq 2.437000000 GHz</p> <p>Stop Freq 2.437000000 GHz</p> <p>CF Step 8.000000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p> |
| MKR           | MODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TRIG | SCL  | X    | Y            | FUNCTION   | FUNCTION WIDTH | FUNCTION VALUE |                |                |   |    |   |   |     |              |          |  |  |   |   |   |   |  |          |            |  |  |   |   |   |   |  |          |            |  |  |                                                                                                                                                                                                        |
| 1             | A2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1    | t    | (Δ)  | 640.9 μs (Δ) | 2.43 dB    |                |                |                |                |   |    |   |   |     |              |          |  |  |   |   |   |   |  |          |            |  |  |   |   |   |   |  |          |            |  |  |                                                                                                                                                                                                        |
| 2             | F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1    | t    |      | 131.7 μs     | -9.30 dBm  |                |                |                |                |   |    |   |   |     |              |          |  |  |   |   |   |   |  |          |            |  |  |   |   |   |   |  |          |            |  |  |                                                                                                                                                                                                        |
| 3             | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1    | t    |      | 950.0 μs     | -8.81 dBm  |                |                |                |                |   |    |   |   |     |              |          |  |  |   |   |   |   |  |          |            |  |  |   |   |   |   |  |          |            |  |  |                                                                                                                                                                                                        |

11N40SISO/HCH



## Appendix B: Photographs of Test Setup

Refer to test report TCT160329E016

## Appendix C: Photographs of EUT

Refer to test report TCT160329E016