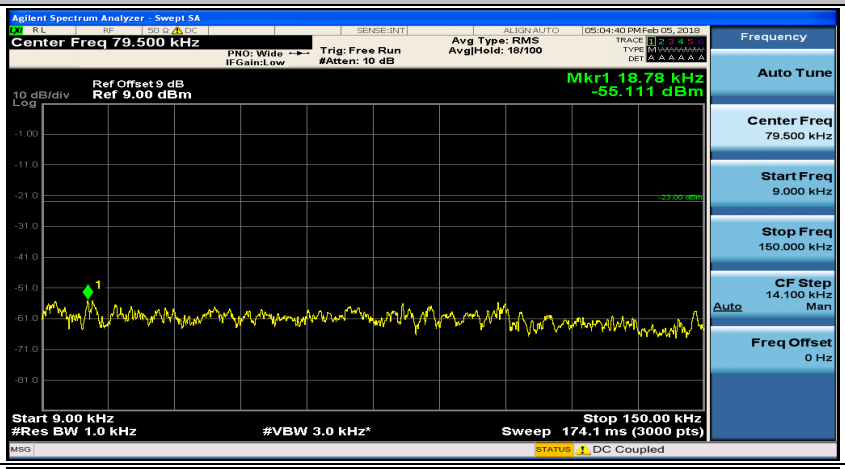
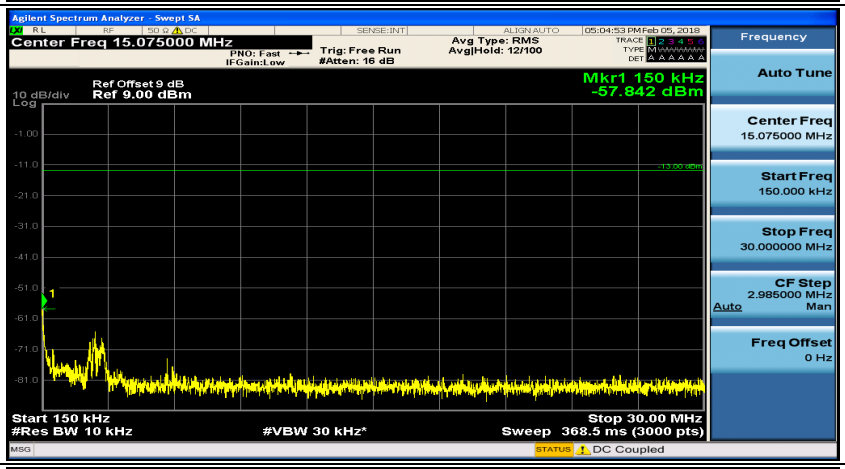
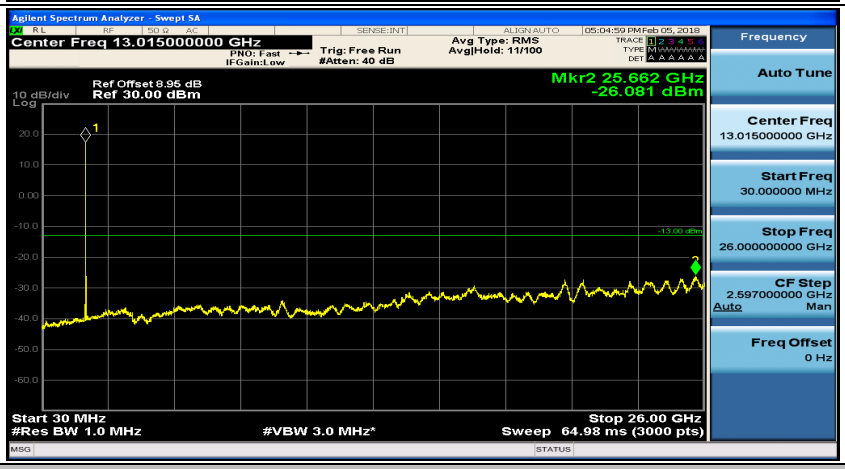
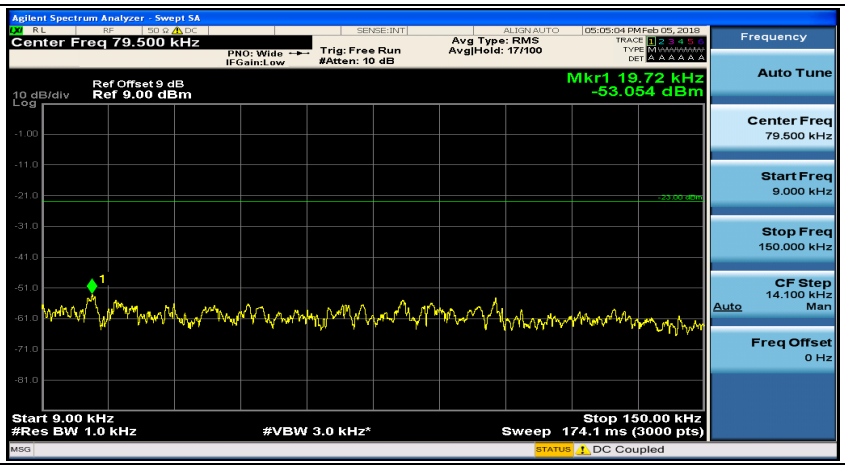
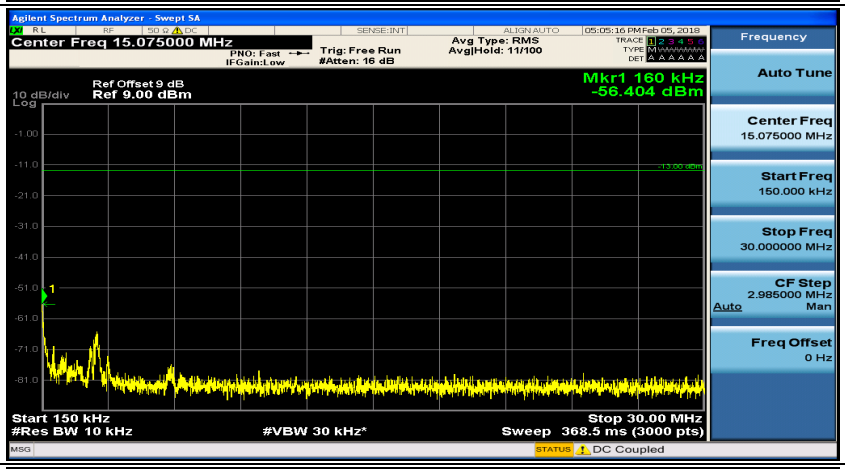
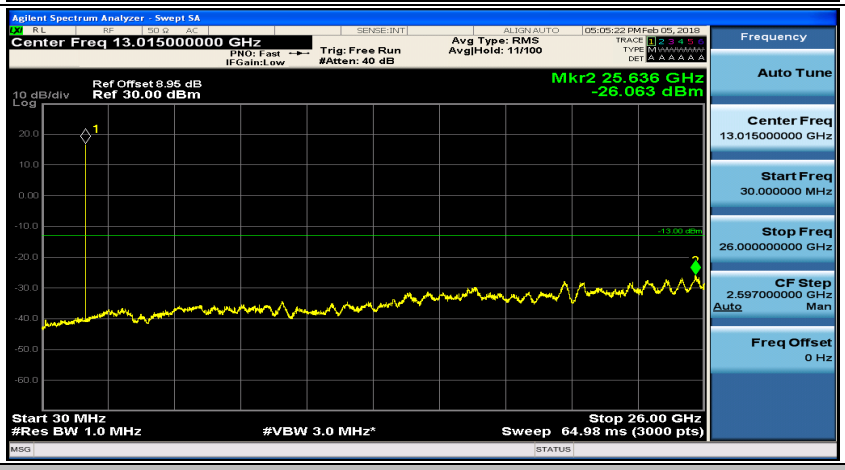
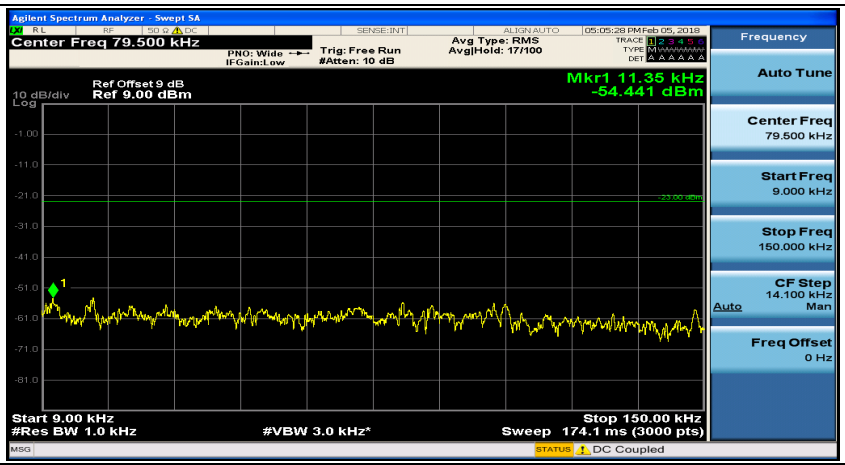
| Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0 |
|---|
|  |
|  |
|  |
| Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24 |

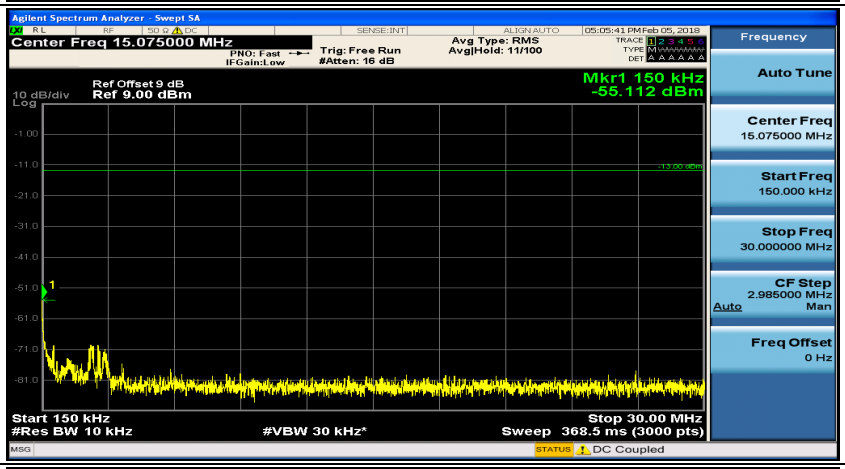


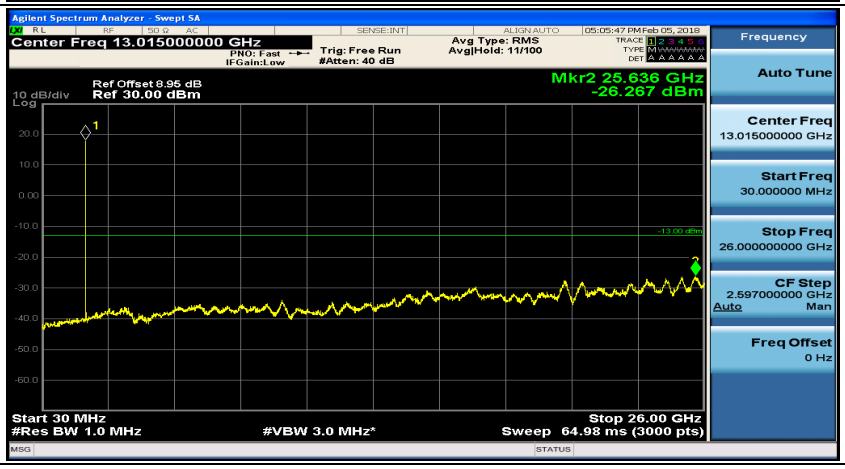



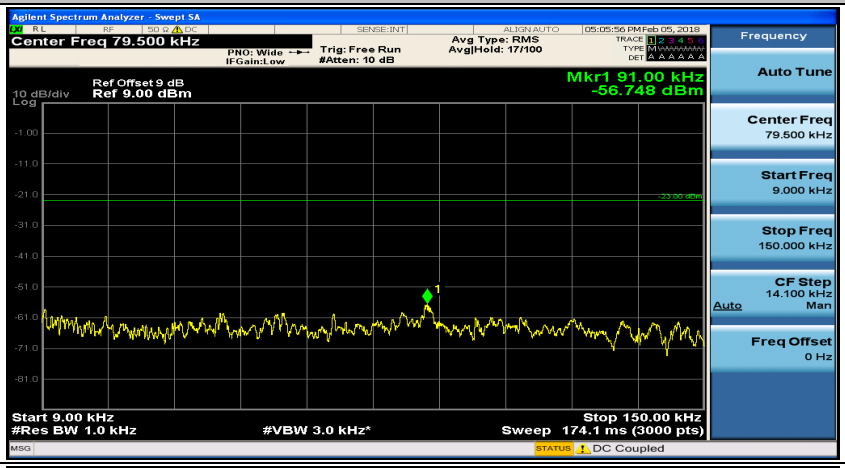
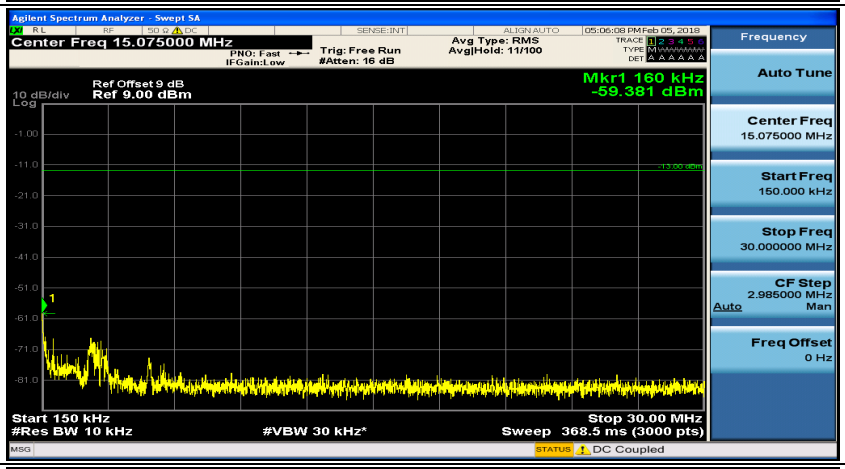
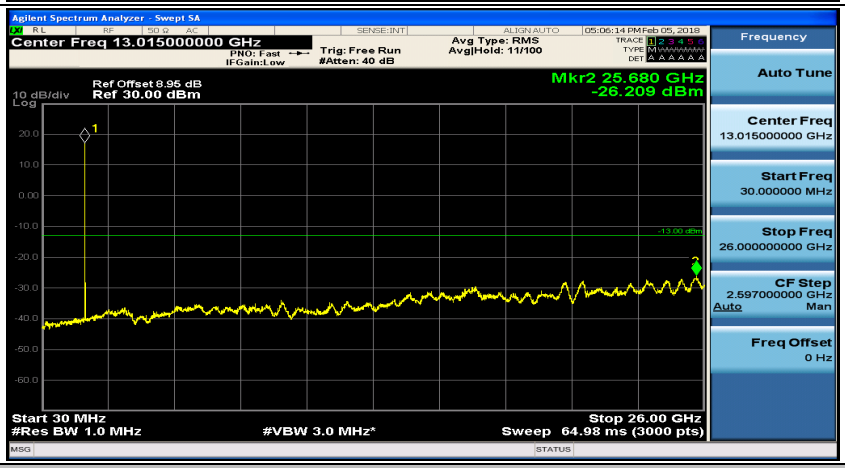

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49

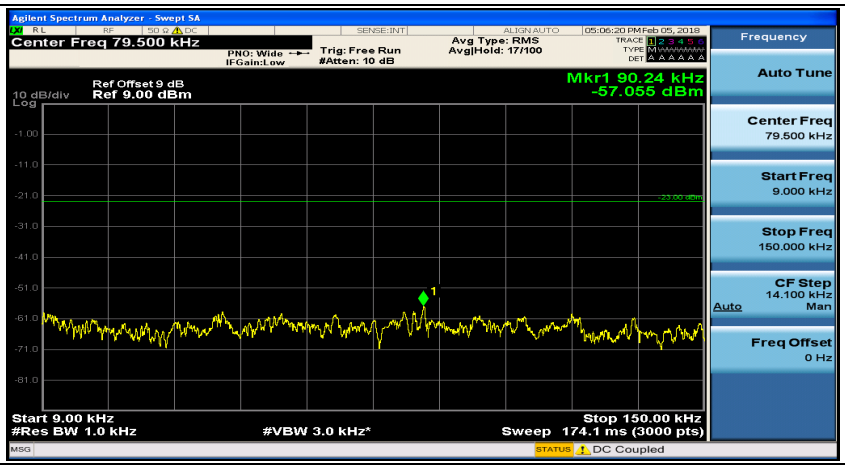

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
05:05:28 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 11.35 kHz
-54.441 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz

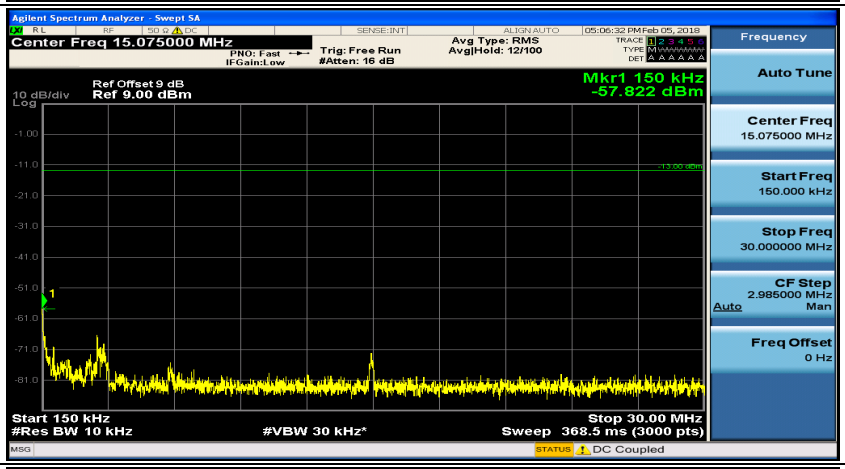

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 11/100
05:05:41 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 150 kHz
-55.112 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

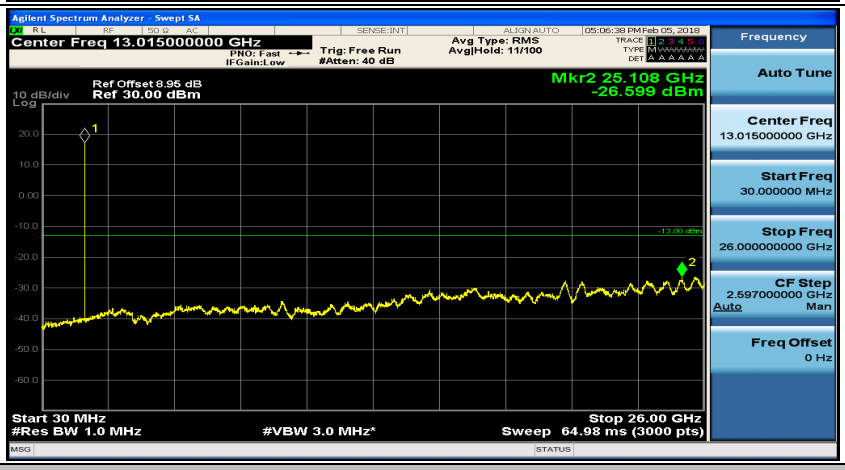

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
05:05:47 PM Feb 05, 2018
Ref Offset 8.95 dB
10 dB/div
Log
Ref 30.00 dBm
Mkr2 25.636 GHz
-26.267 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

## Channel Bandwidth: 15 MHz

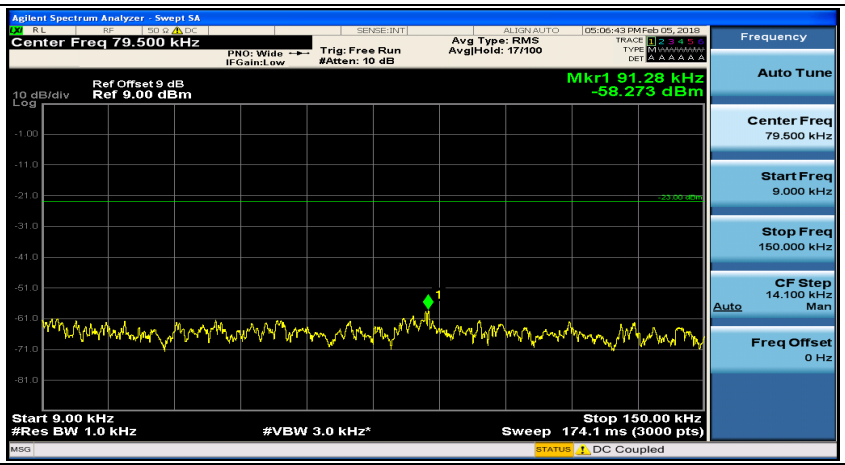
| (Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#0 |
| --- |
|  |
|  |
|  |
| (Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#37 |

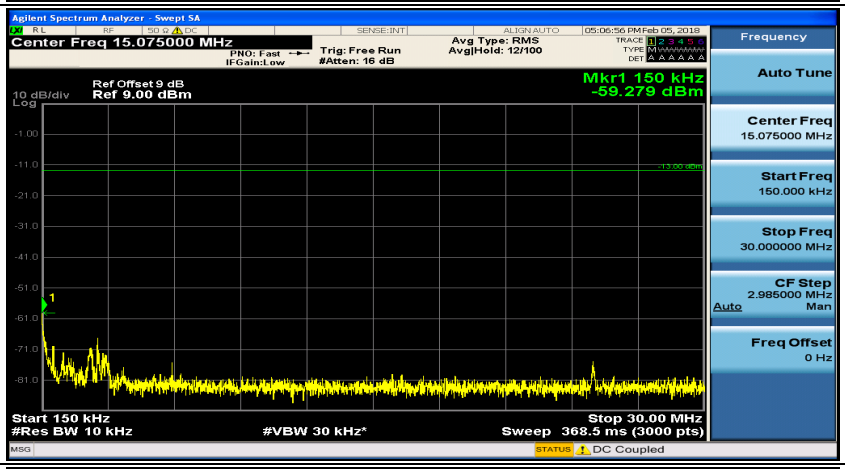


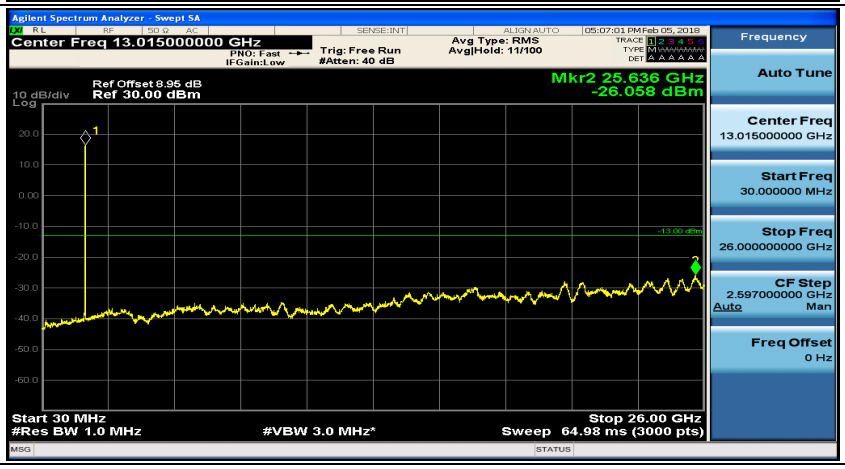



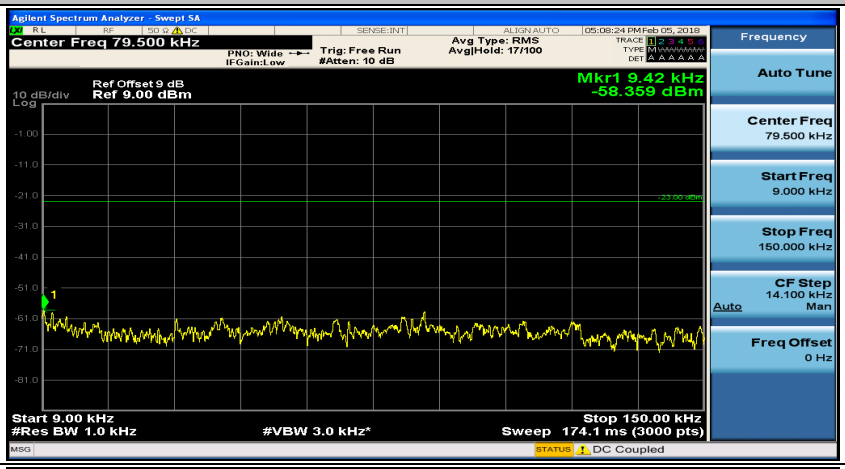
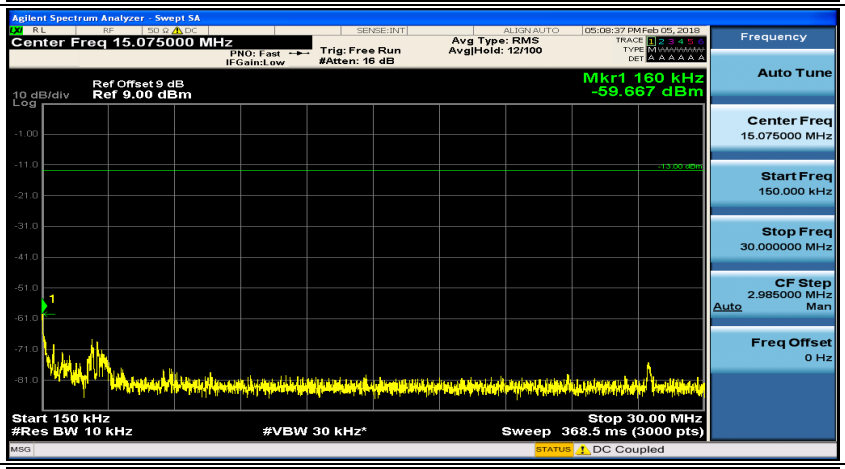
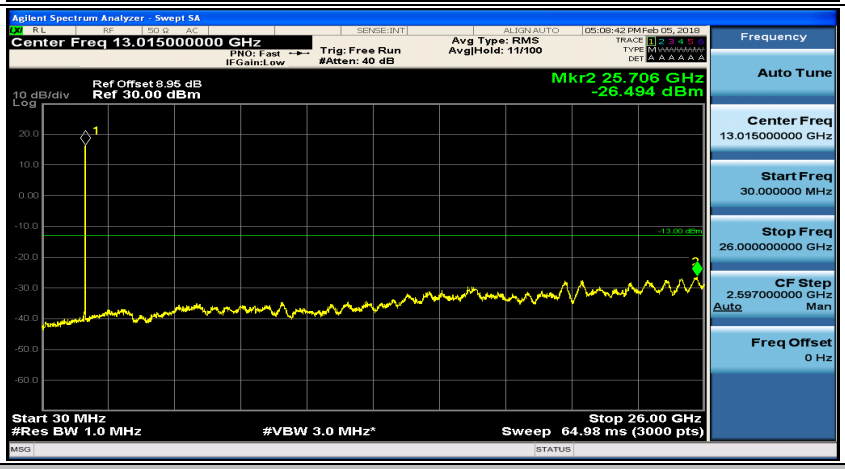



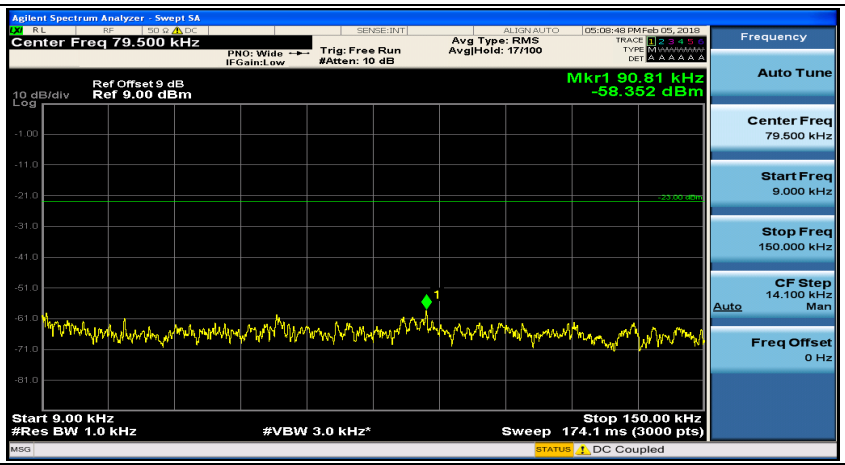

(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#74

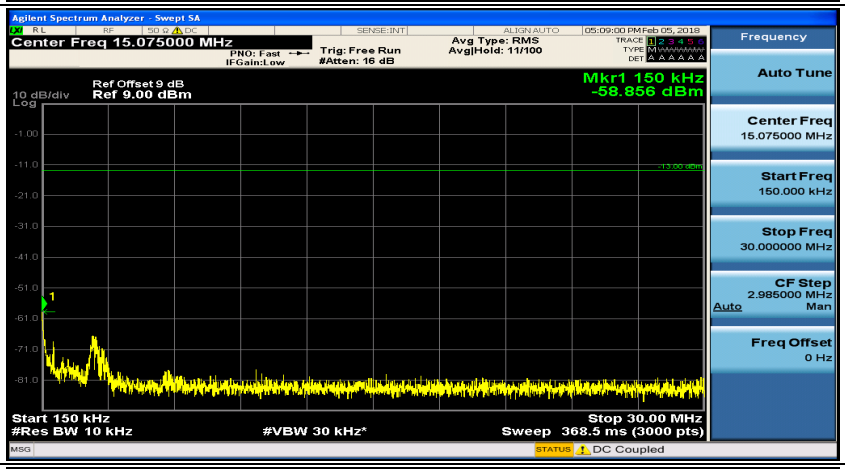

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
05:06:43 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 91.28 kHz
-58.273 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz

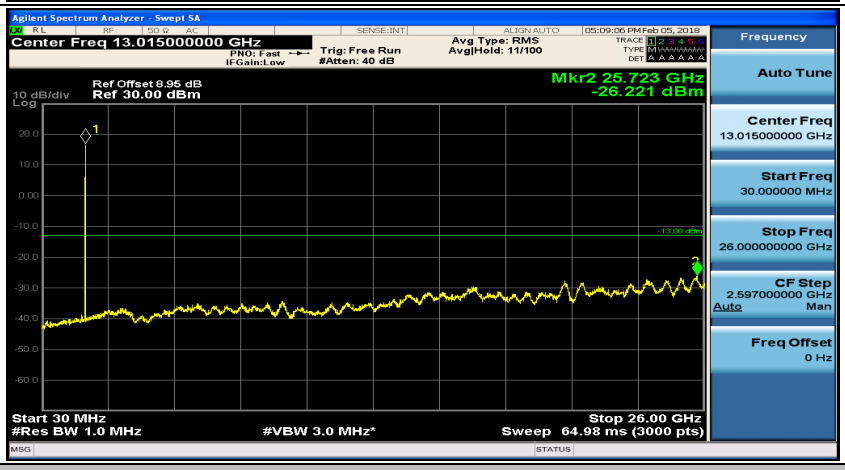

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
05:06:56 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 150 kHz
-59.279 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
05:07:01 PM Feb 05, 2018
Ref Offset 8.95 dB
10 dB/div
Log
Ref 30.00 dBm
Mkr2 25.636 GHz
-26.058 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

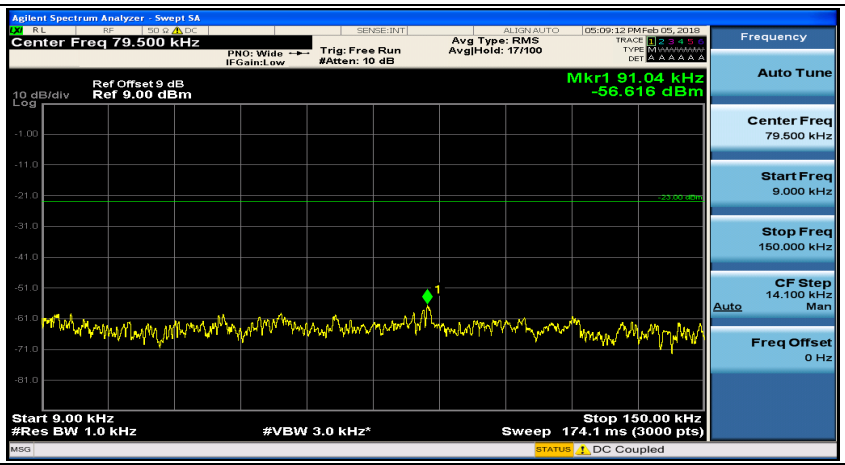
| (Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0 |
| --- |
|  |
|  |
|  |
| (Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#37 |

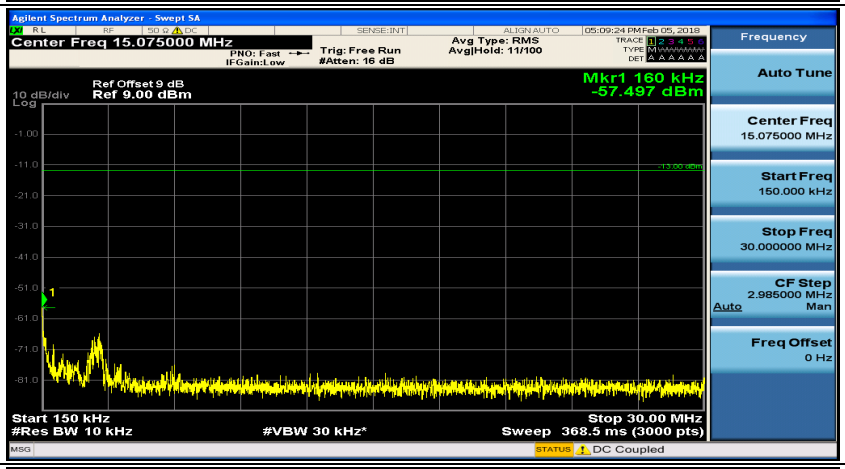


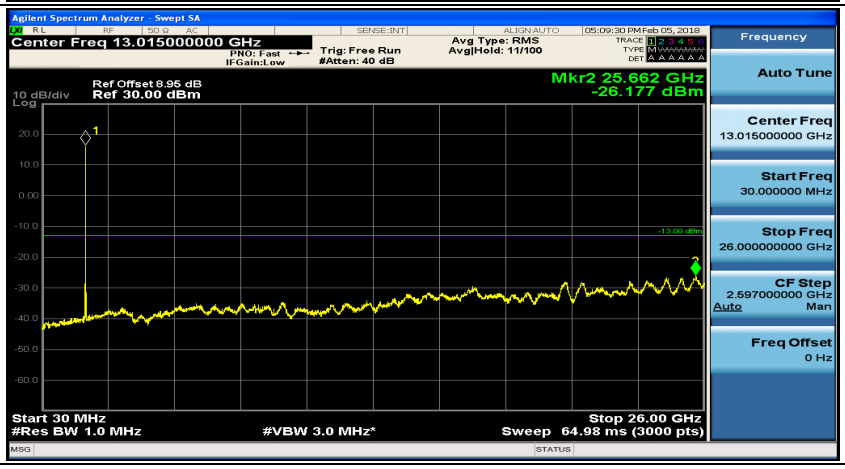



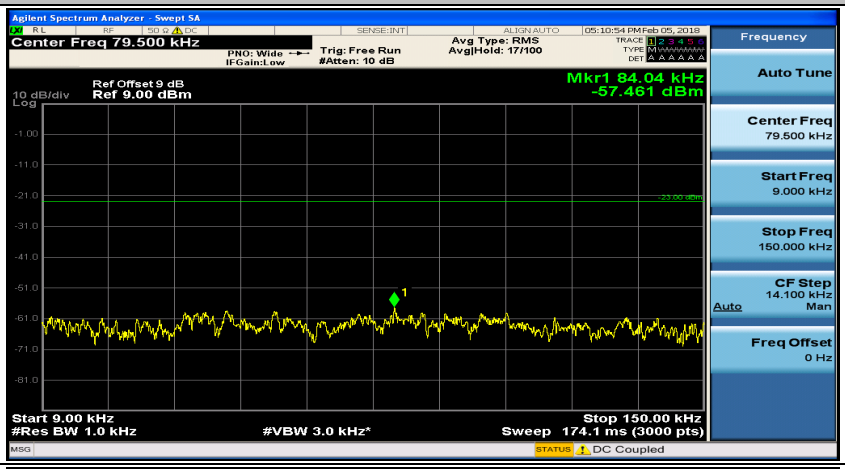

(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#74

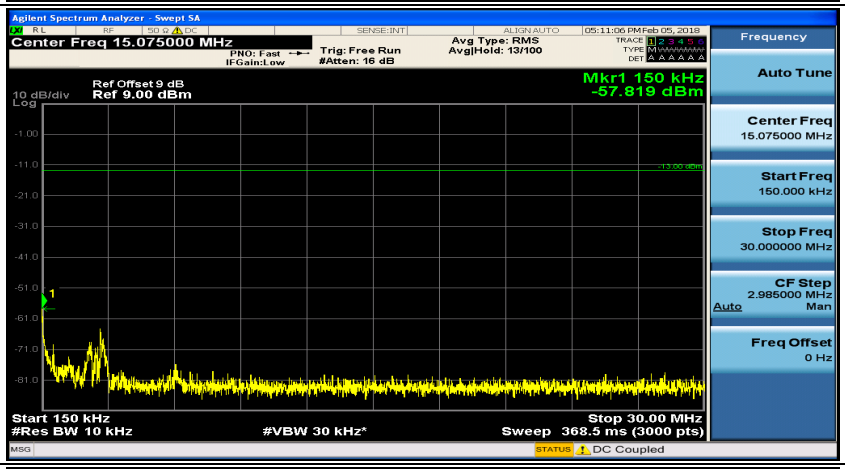

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
05:09:12 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 91.04 kHz
-56.616 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz

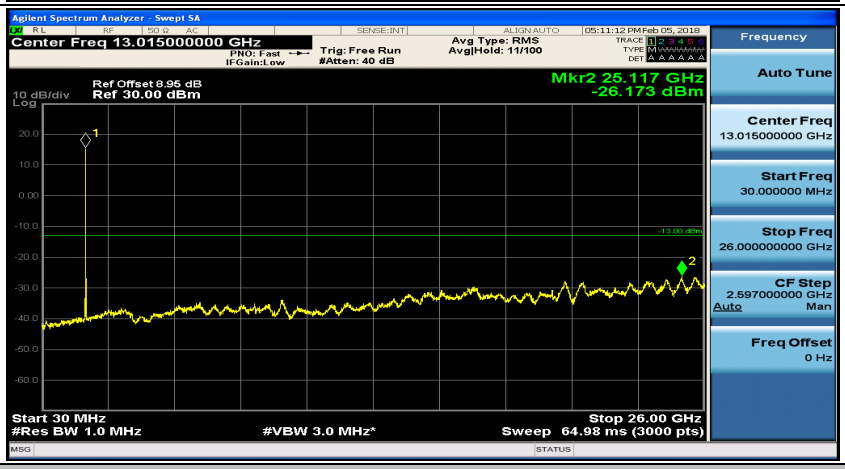

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 11/100
05:09:24 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 160 kHz
-57.497 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
05:09:30 PM Feb 05, 2018
Ref Offset 8.95 dB
10 dB/div
Log
Ref 30.00 dBm
Mkr2 25.662 GHz
-26.177 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

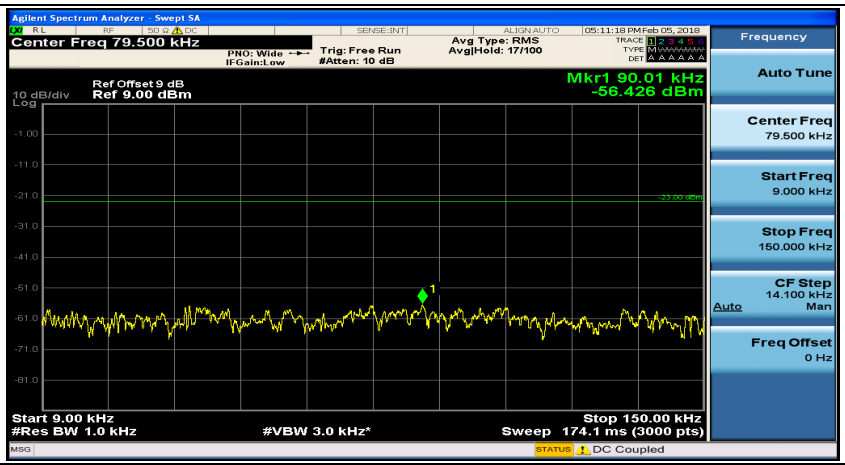
(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

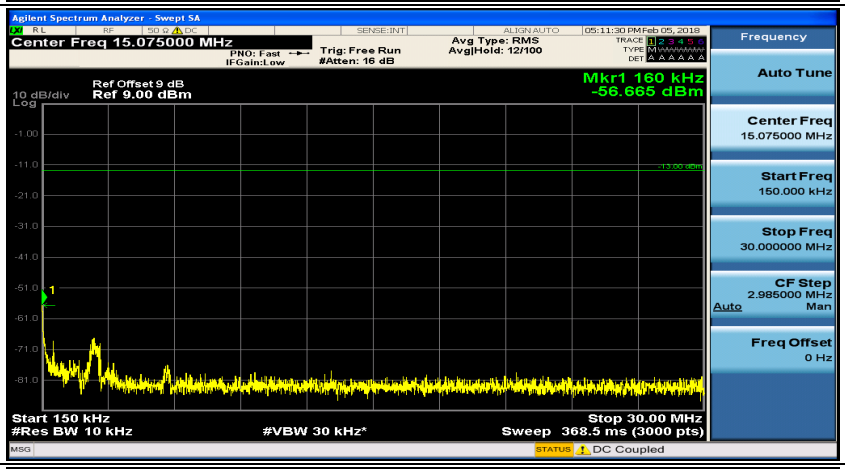


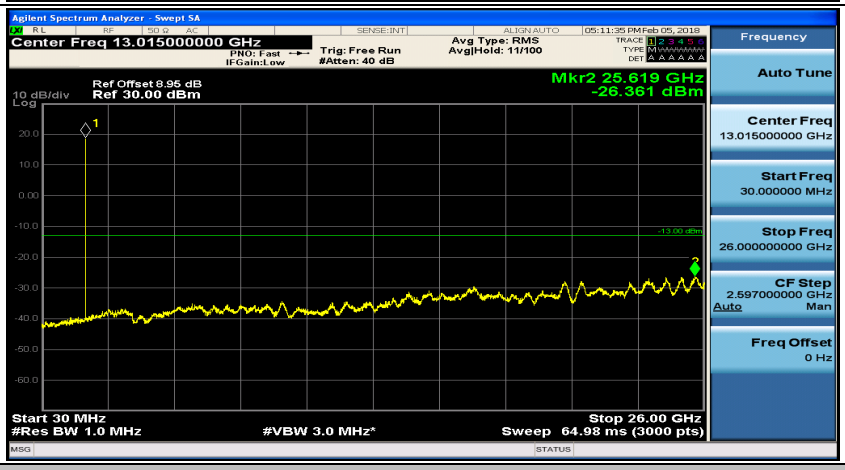



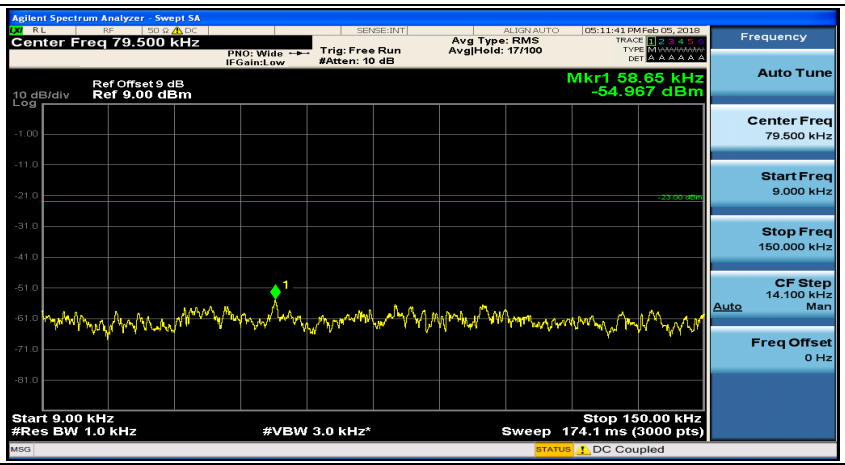

(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#37

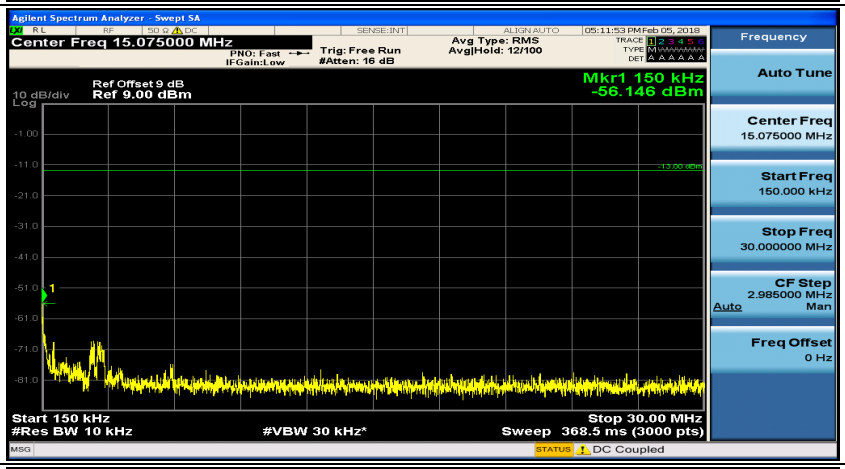


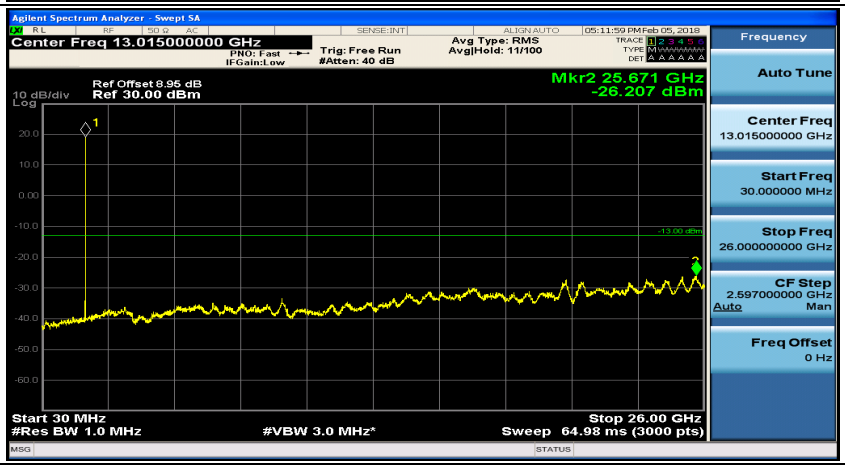



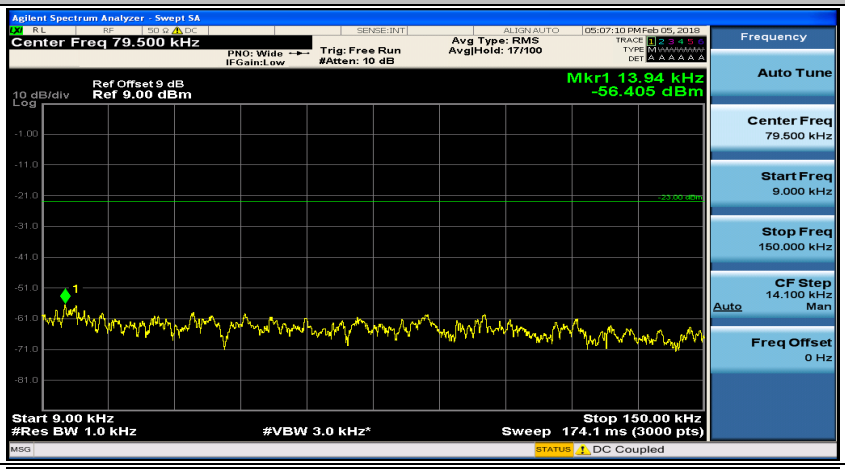

(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#74

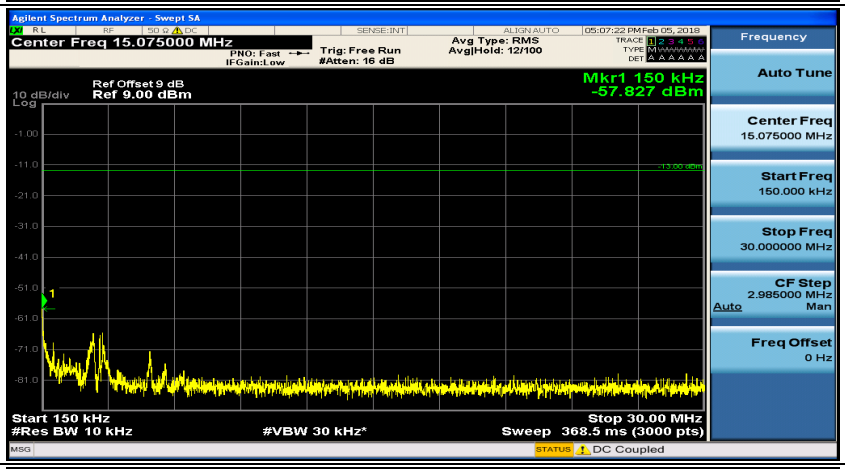

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
05:11:41 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 58.65 kHz
-54.967 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz

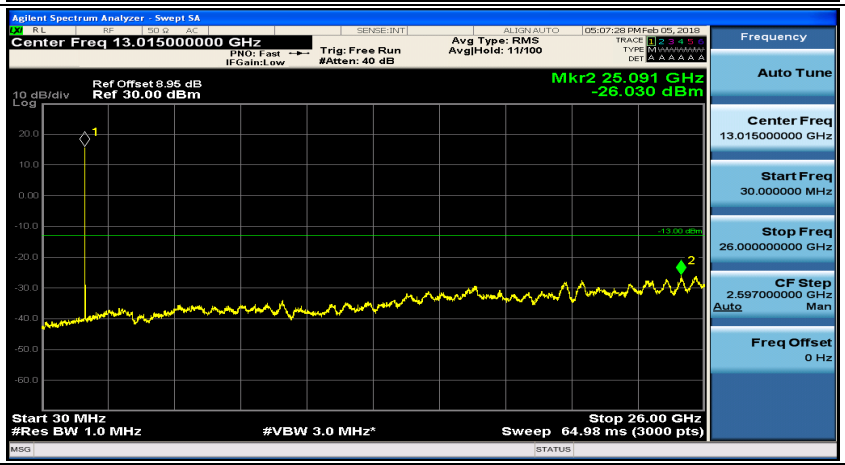

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
05:11:53 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 150 kHz
-56.146 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
05:11:59 PM Feb 05, 2018
Ref Offset 8.95 dB
10 dB/div
Log
Ref 30.00 dBm
Mkr2 25.671 GHz
-26.207 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

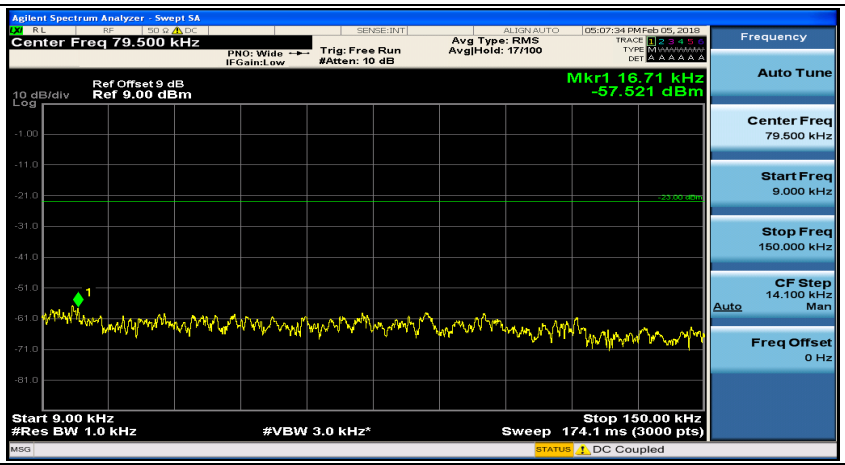
(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0

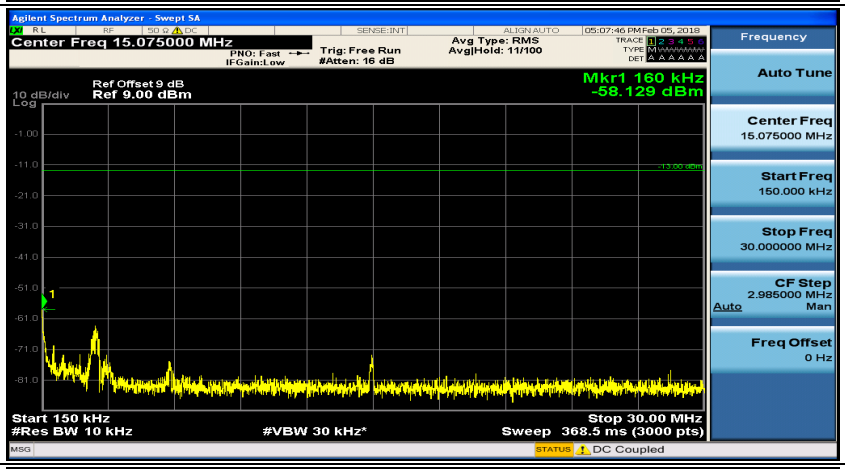


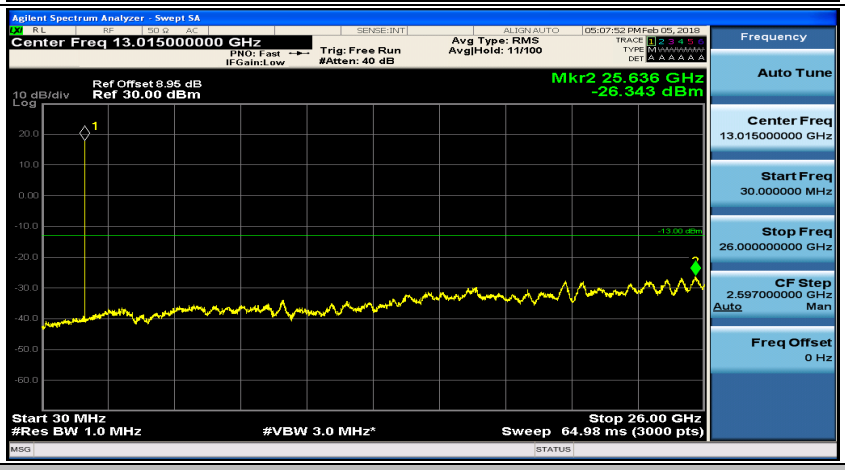



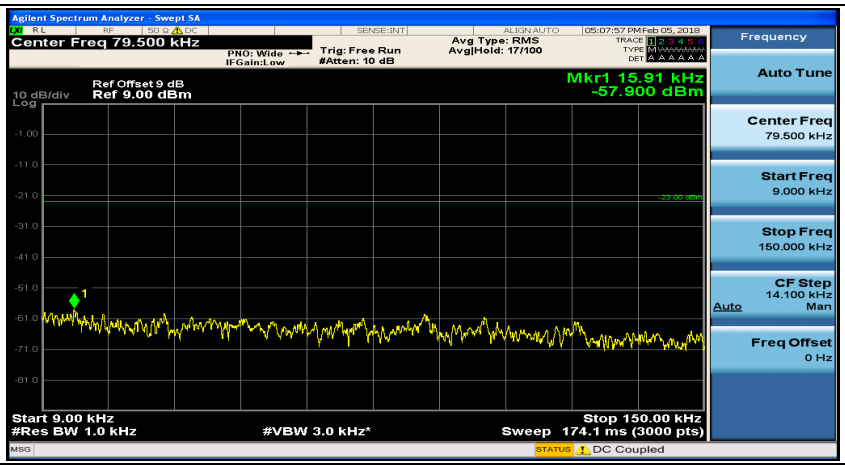

(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37

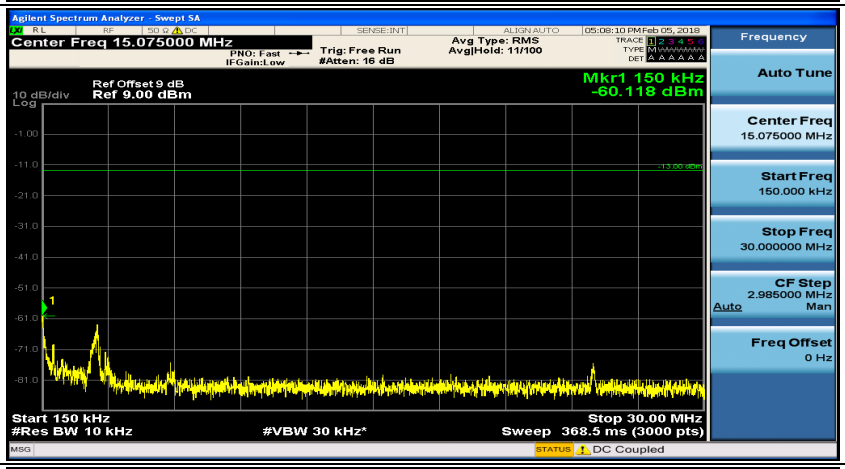


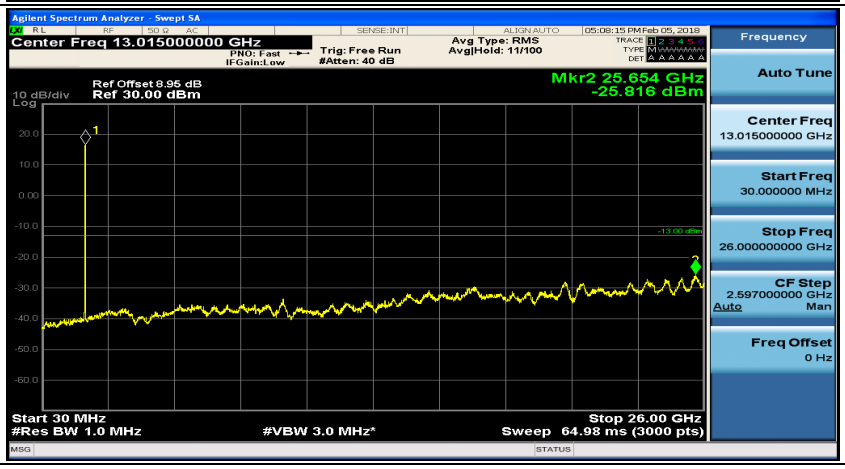



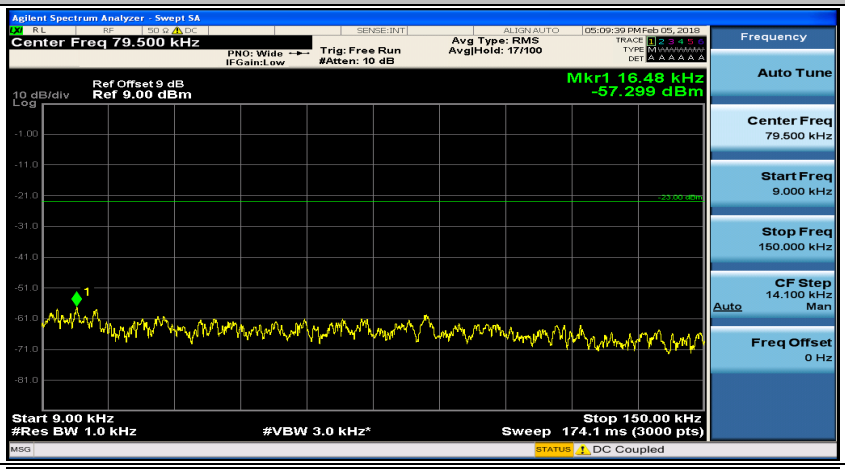
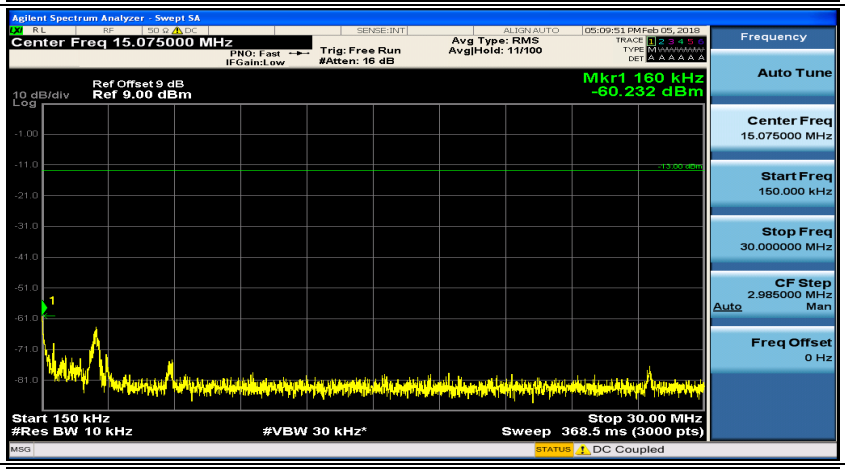
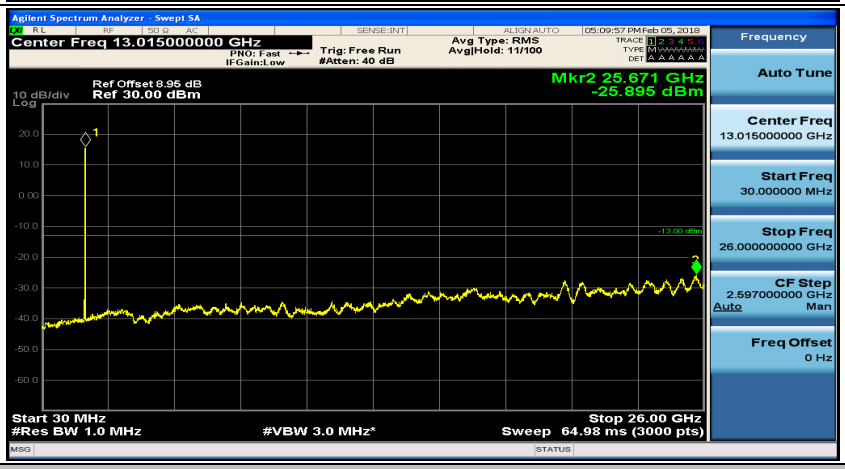



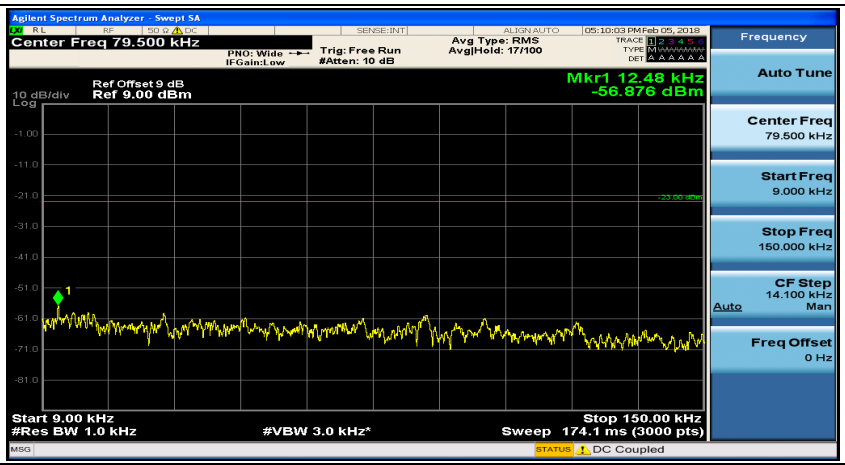

(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#74

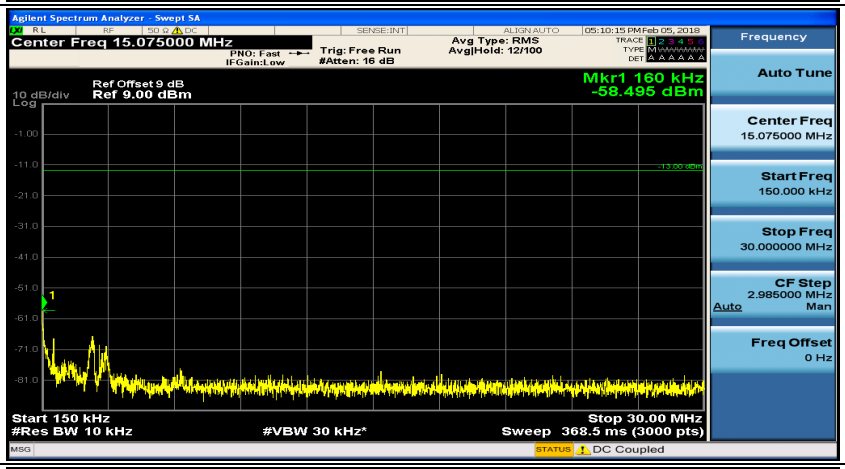

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
05:07:57 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 15.91 kHz
-57.900 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz

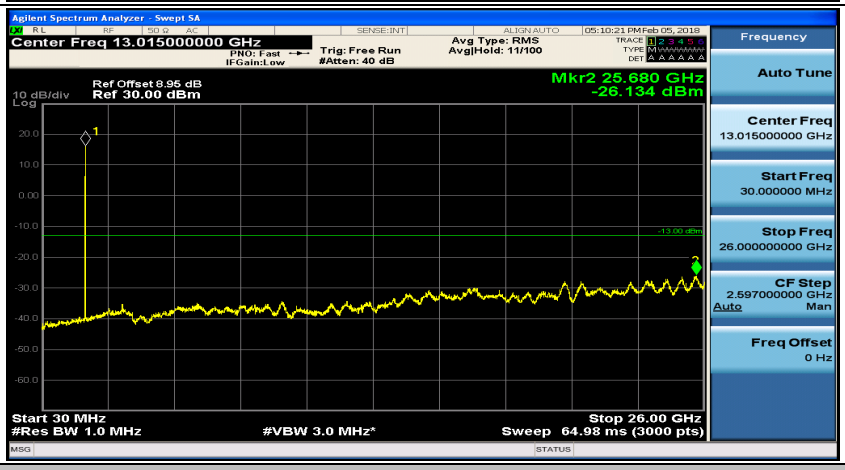

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 11/100
05:08:10 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 150 kHz
-60.118 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
05:08:15 PM Feb 05, 2018
Ref Offset 8.95 dB
10 dB/div
Log
Ref 30.00 dBm
Mkr2 25.654 GHz
-25.816 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

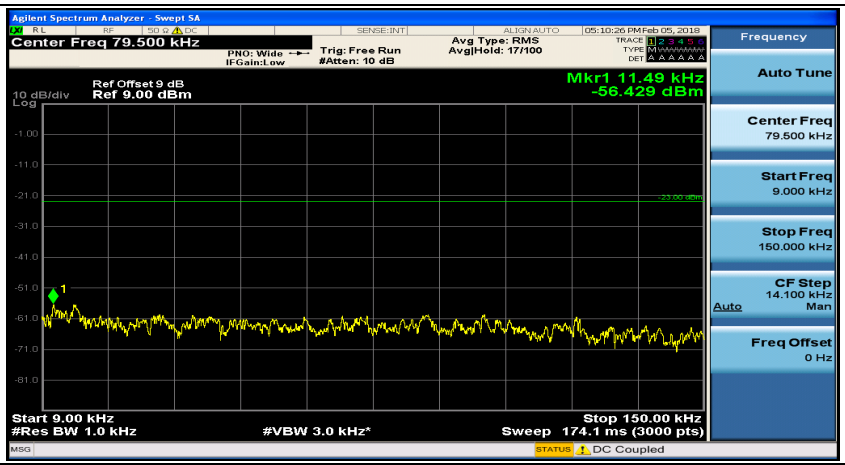
| (Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0 |
| --- |
|  |
|  |
|  |
| (Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37 |

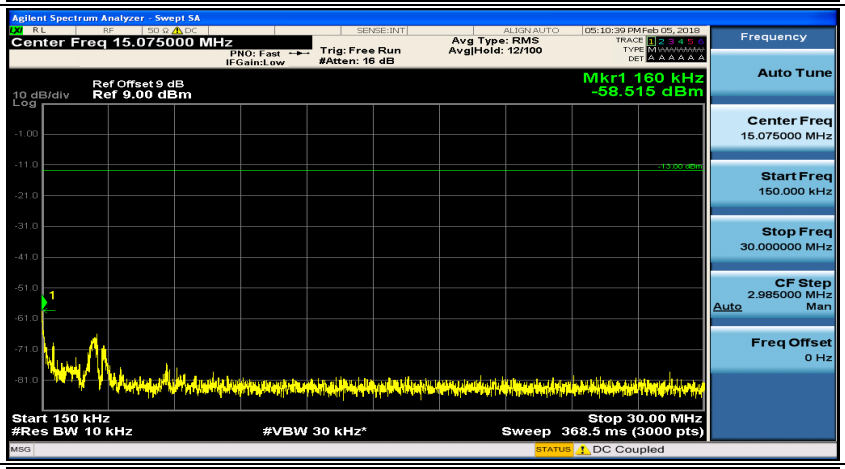


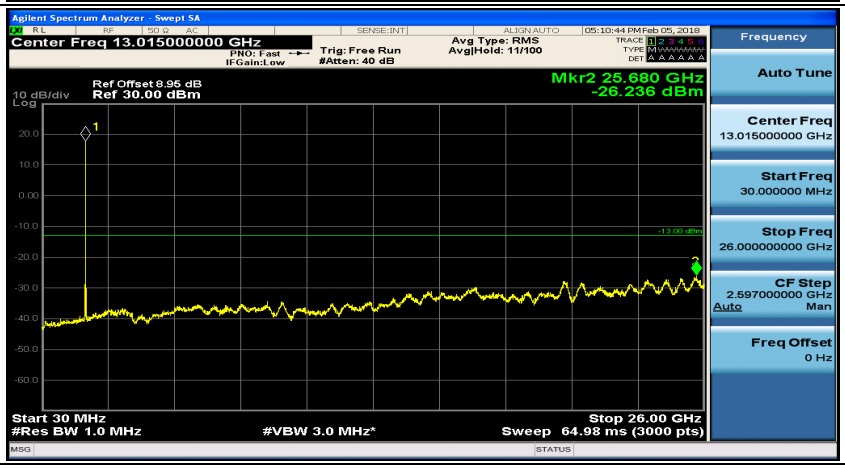



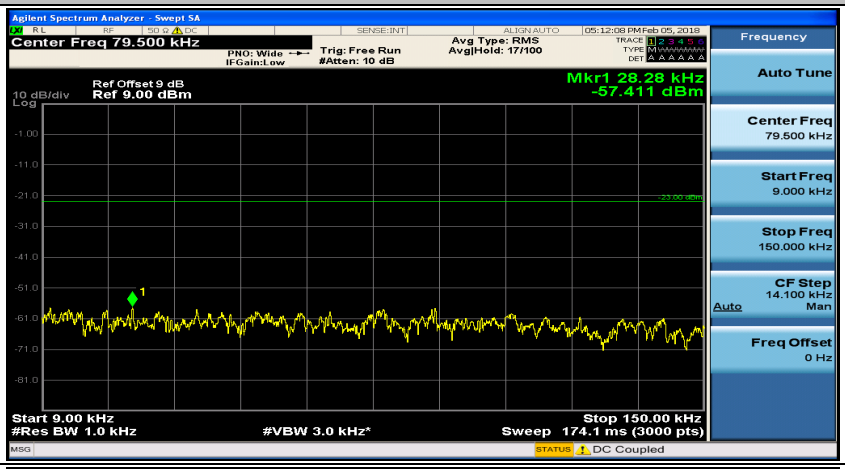
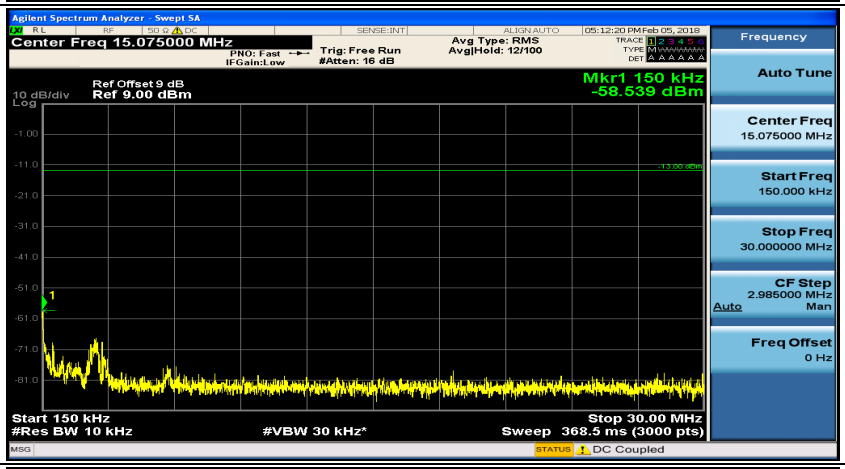
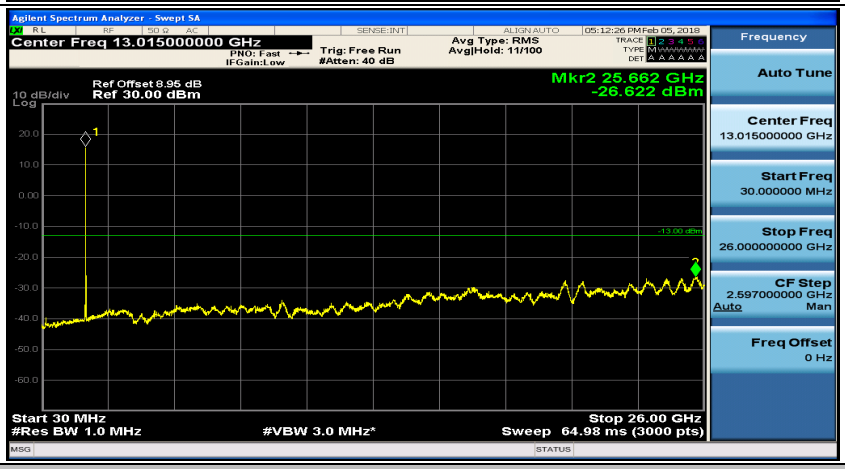



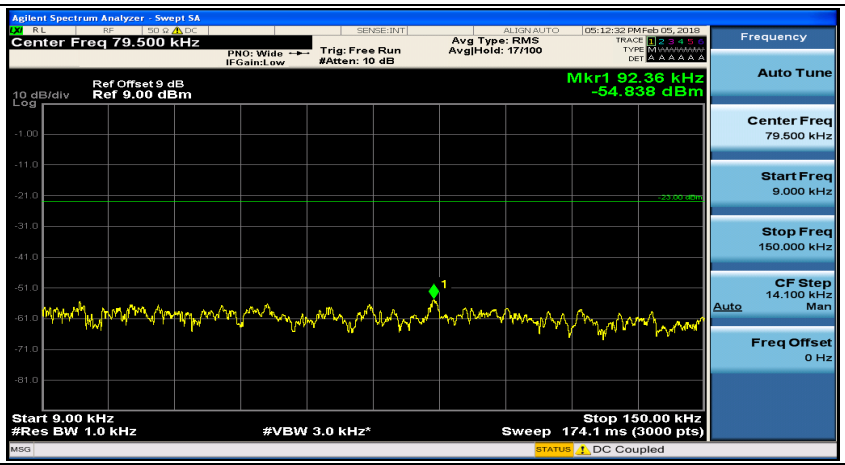

(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#74

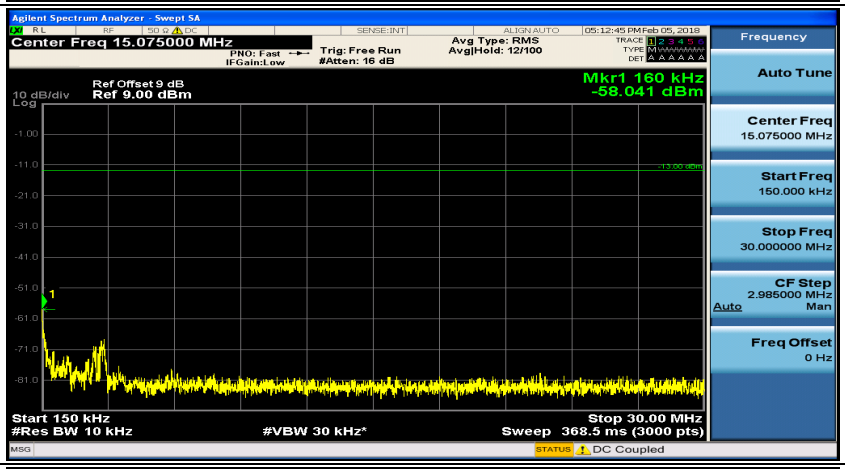

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
05:10:26 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 11.49 kHz
-56.429 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz

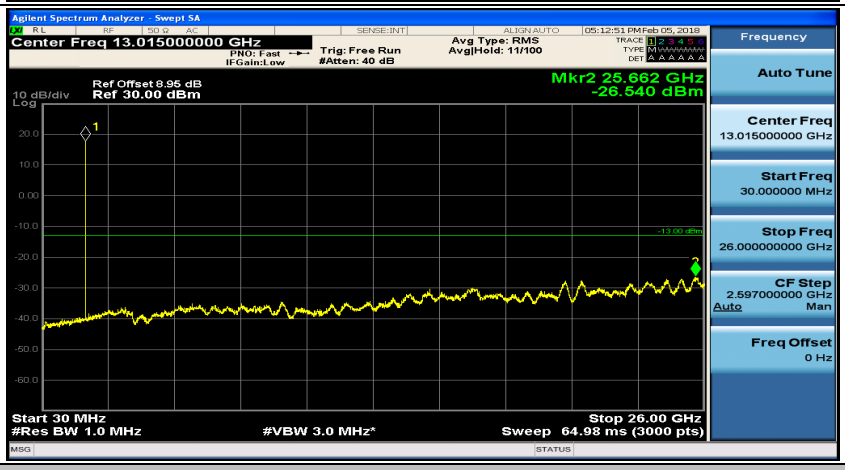

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
05:10:39 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 160 kHz
-58.515 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
05:10:44 PM Feb 05, 2018
Ref Offset 8.95 dB
10 dB/div
Log
Ref 30.00 dBm
Mkr2 25.680 GHz
-26.236 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

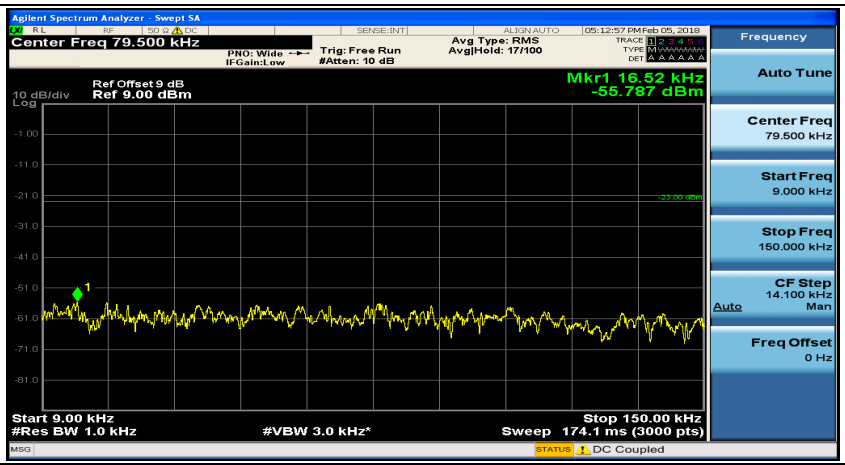
| (Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0 |
| --- |
|  |
|  |
|  |
| (Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37 |

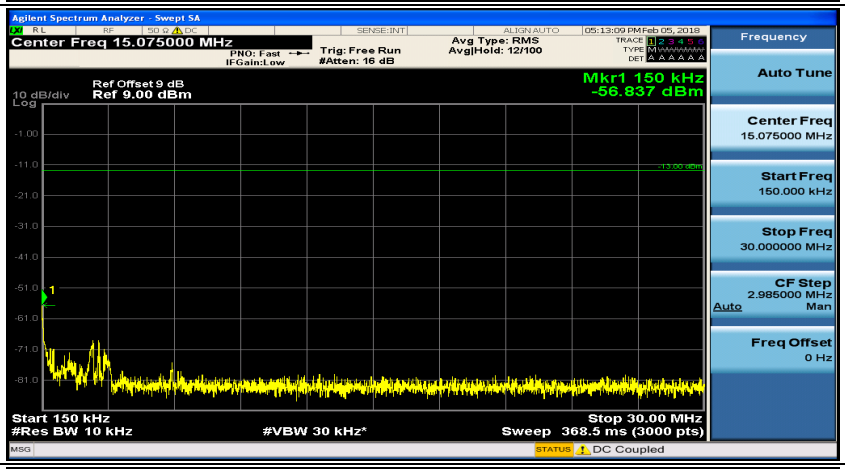


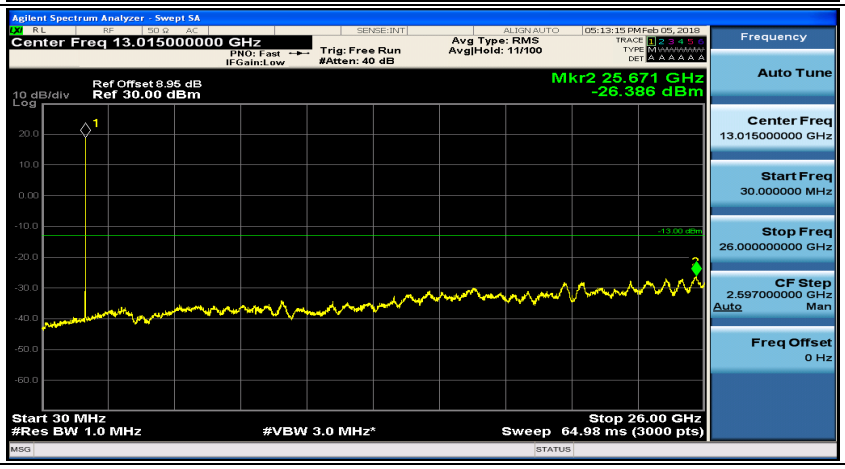



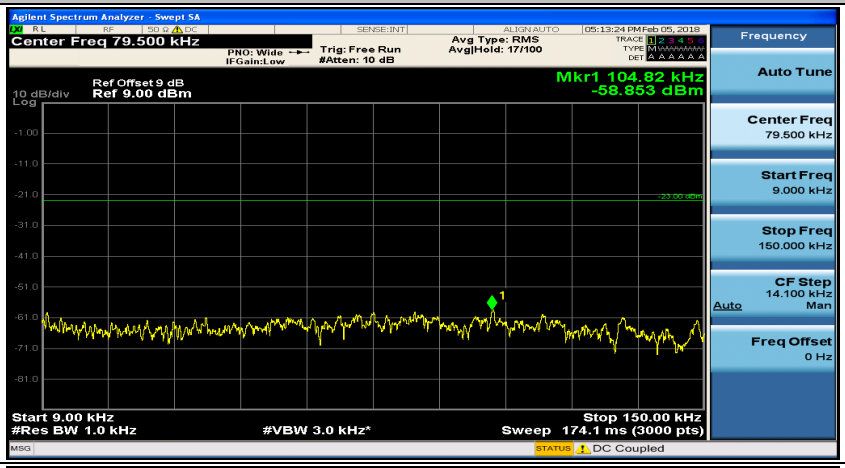
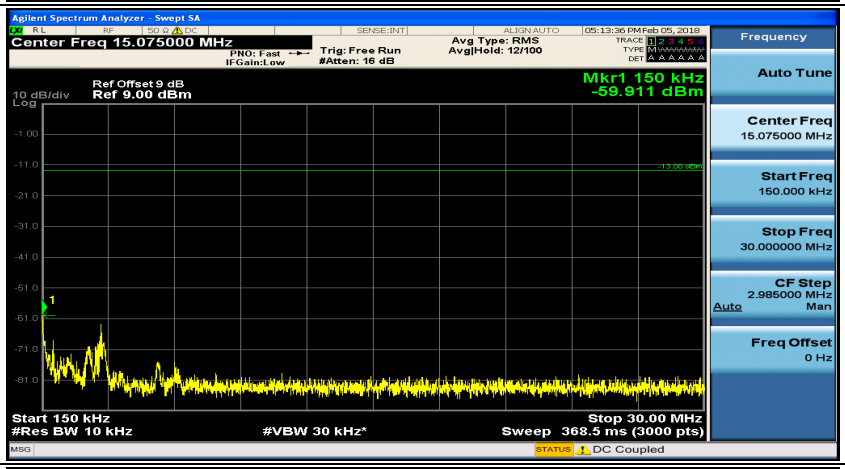
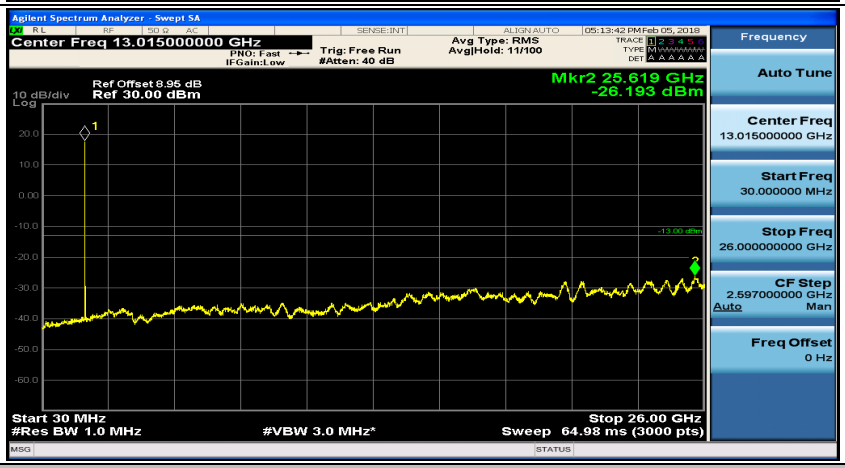

(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#74

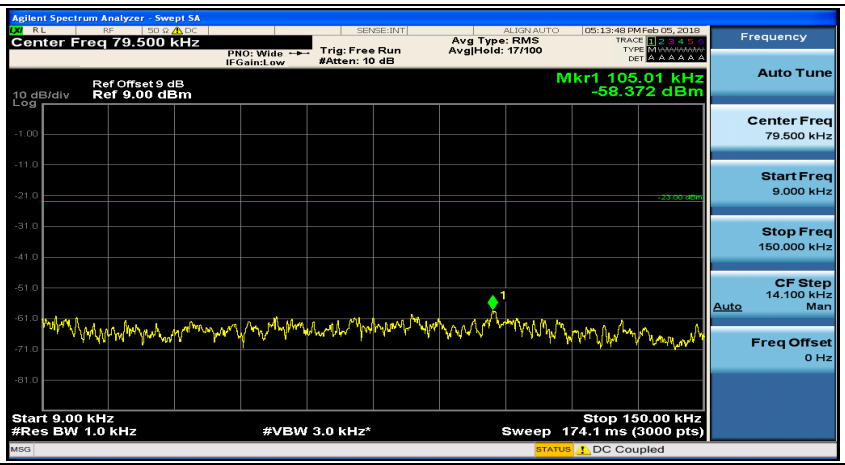

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
05:12:57 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 16.52 kHz
-55.787 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz

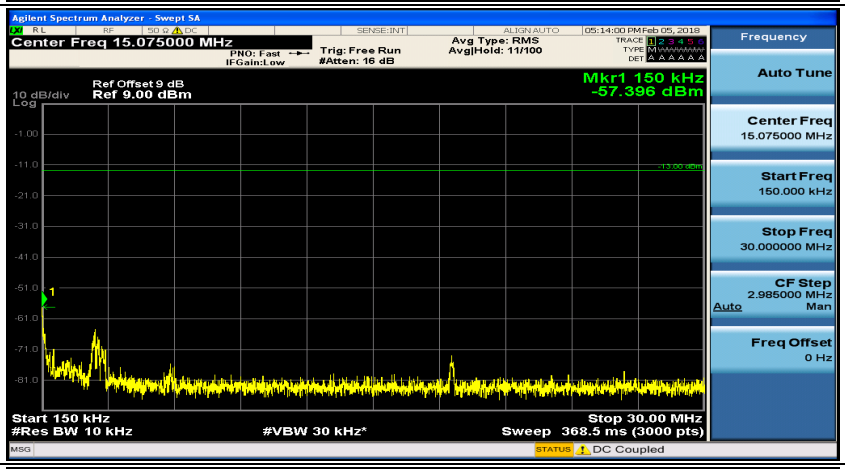

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
05:13:09 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 150 kHz
-56.837 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

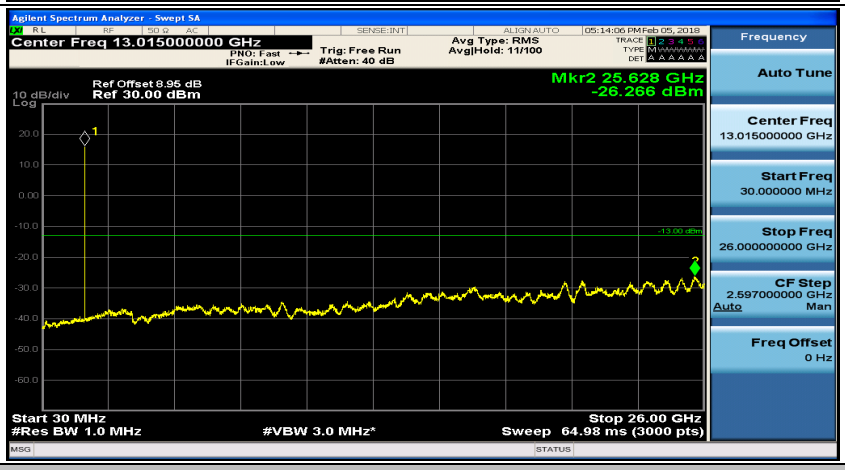

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
05:13:15 PM Feb 05, 2018
Ref Offset 8.95 dB
10 dB/div
Log
Ref 30.00 dBm
Mkr2 25.671 GHz
-26.386 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

## Channel Bandwidth: 20 MHz

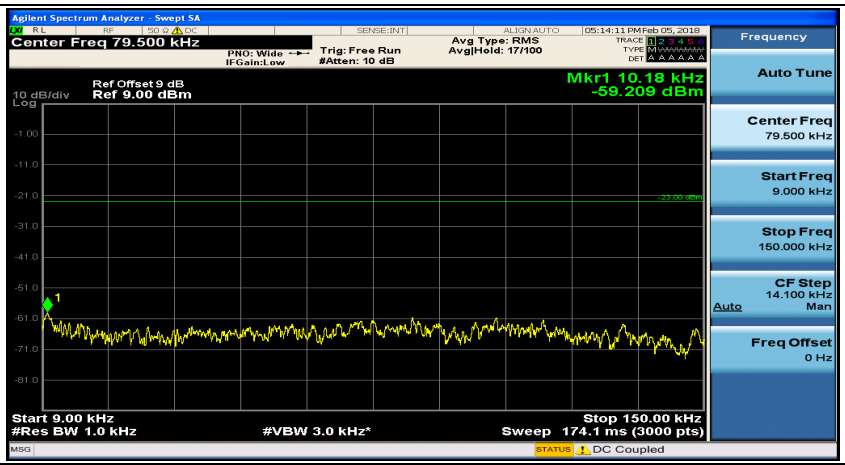
| (Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#0 |
| --- |
|  |
|  |
|  |
| (Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#49 |

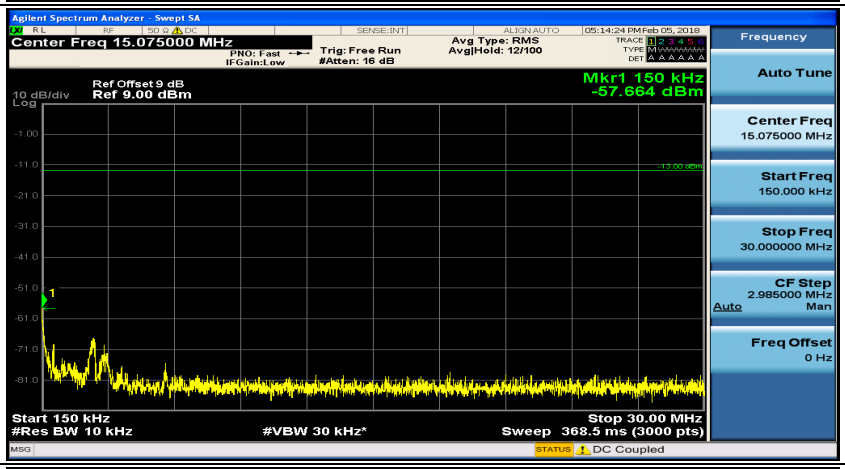


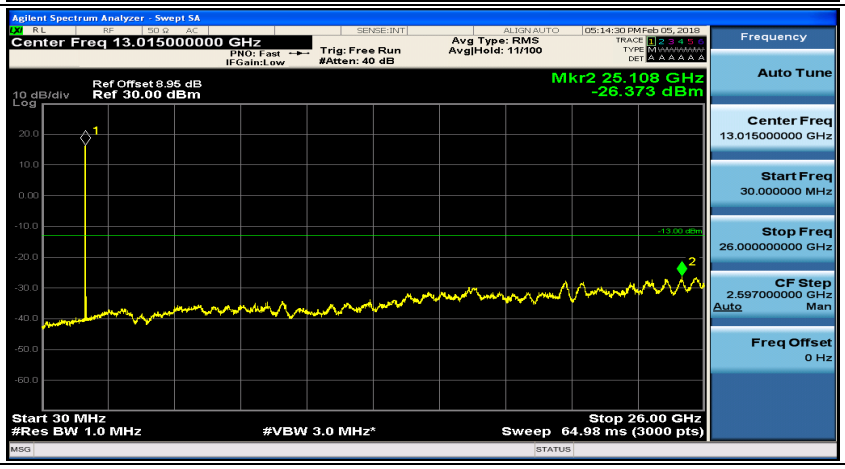



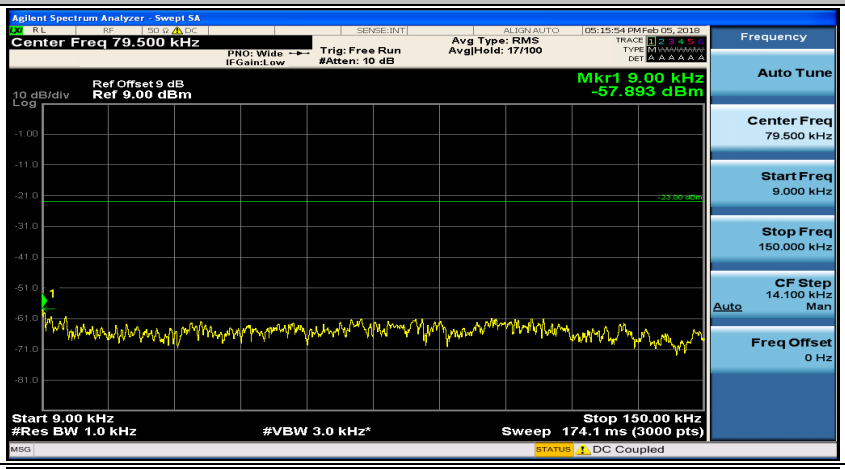
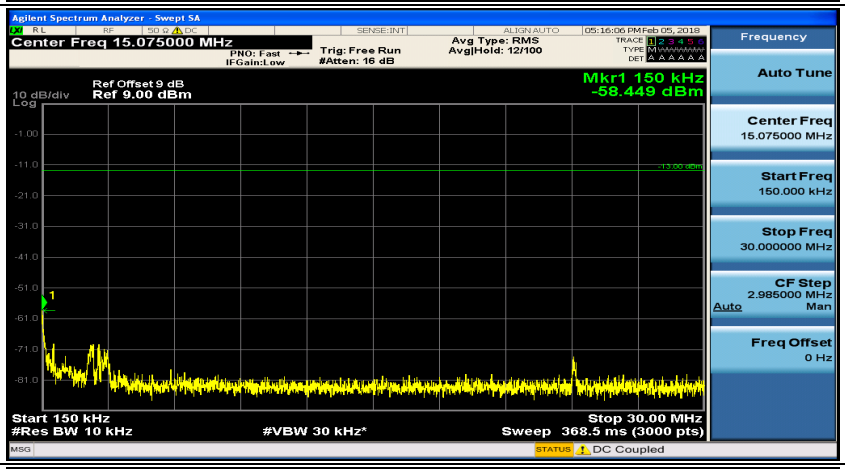
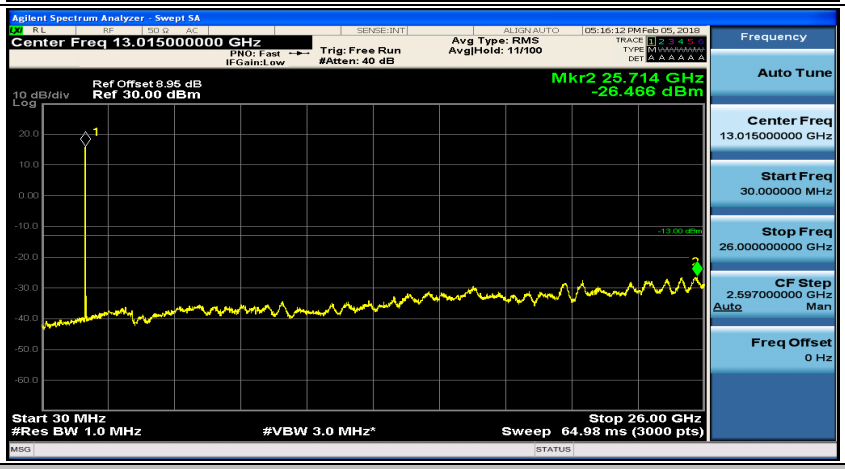



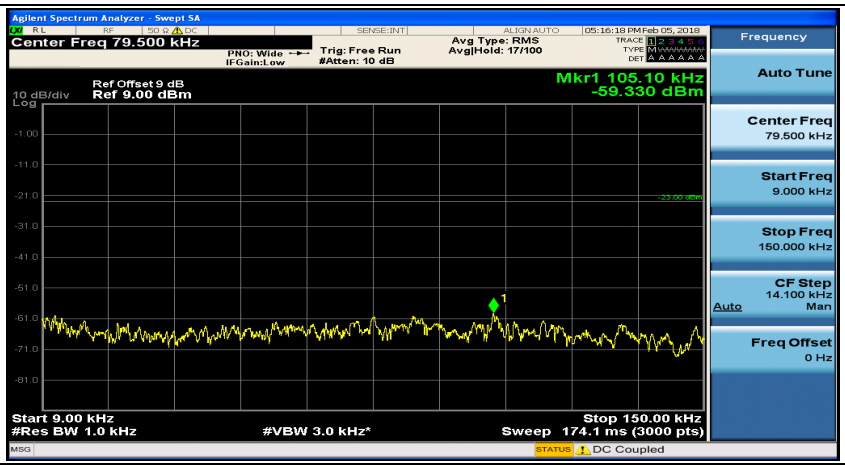

(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#99

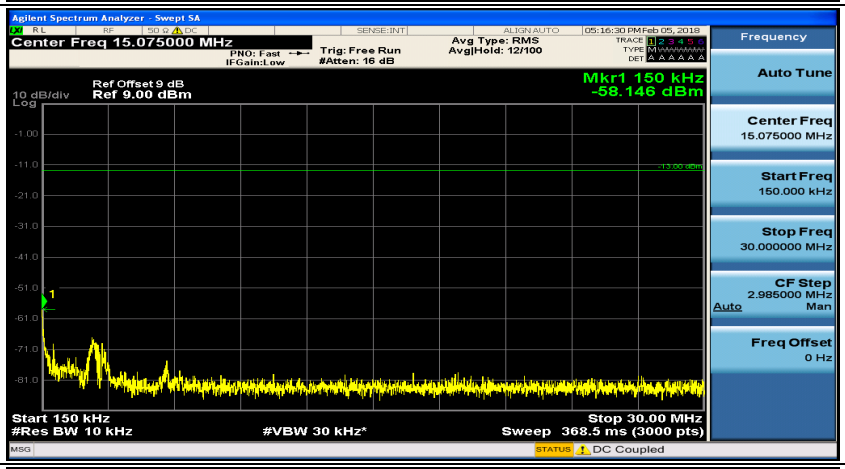

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
05:14:11 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 10.18 kHz
-59.209 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz

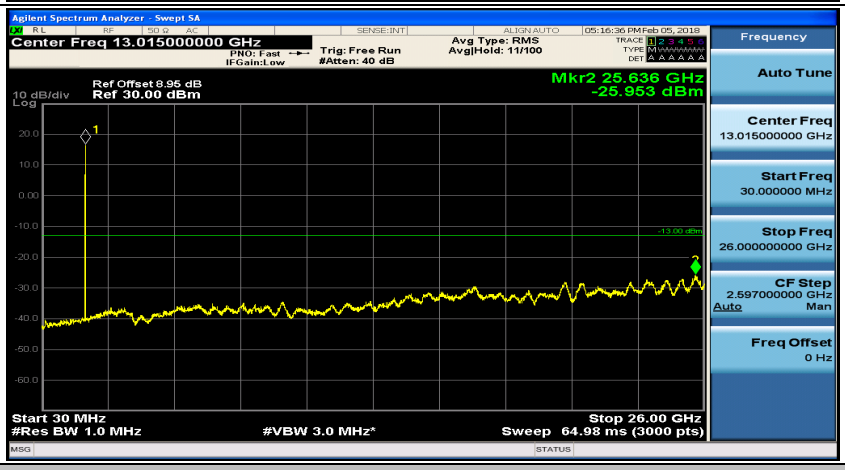

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
05:14:24 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 150 kHz
-57.664 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
05:14:30 PM Feb 05, 2018
Ref Offset 8.95 dB
10 dB/div
Log
Ref 30.00 dBm
Mkr2 25.108 GHz
-26.373 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

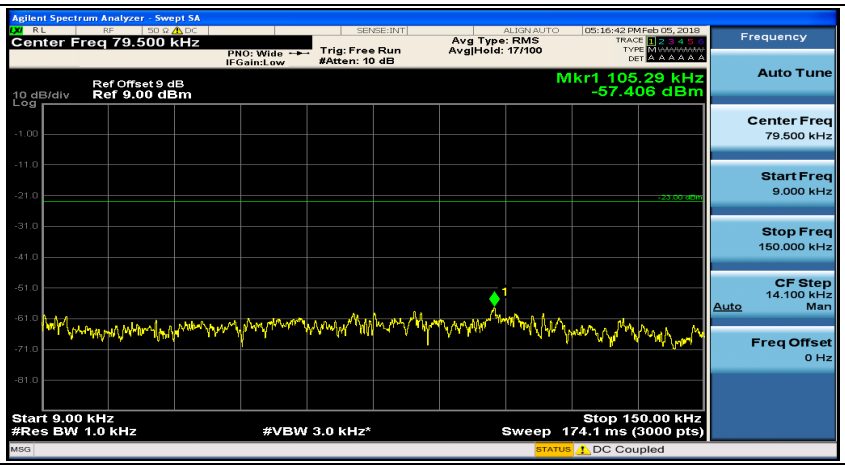
| (Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0 |
| --- |
|  |
|  |
|  |
| (Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49 |

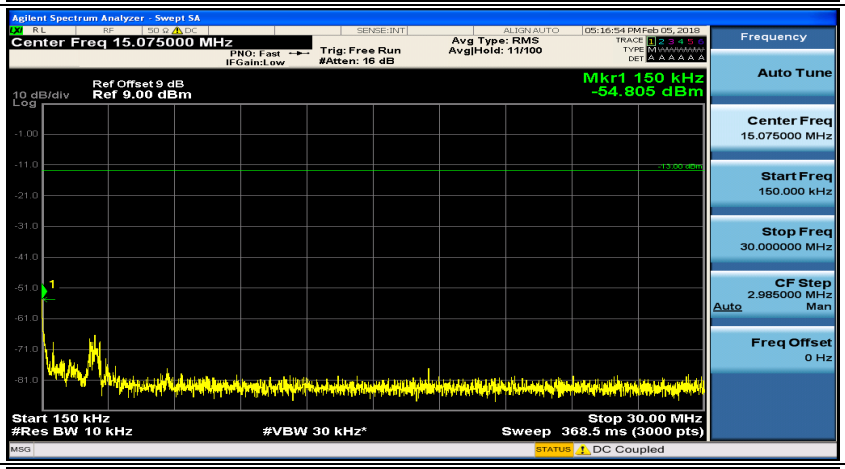


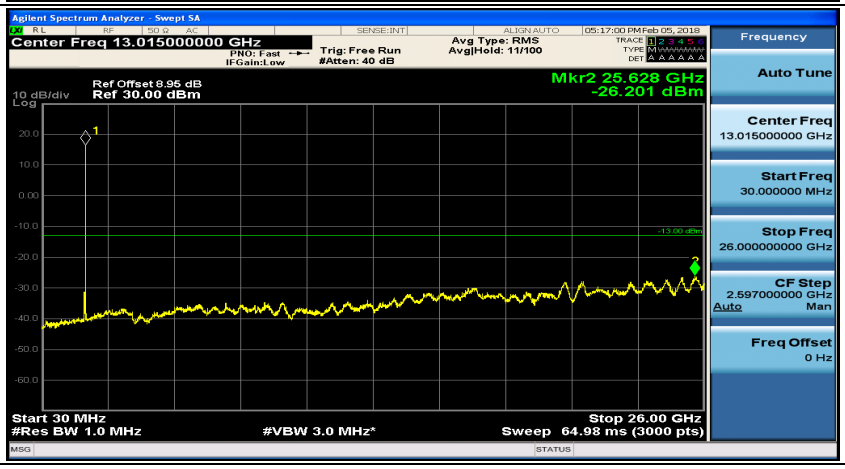



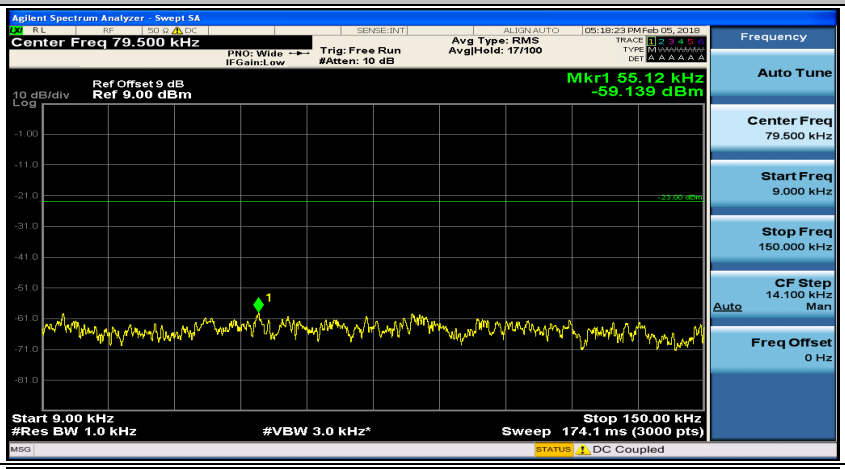
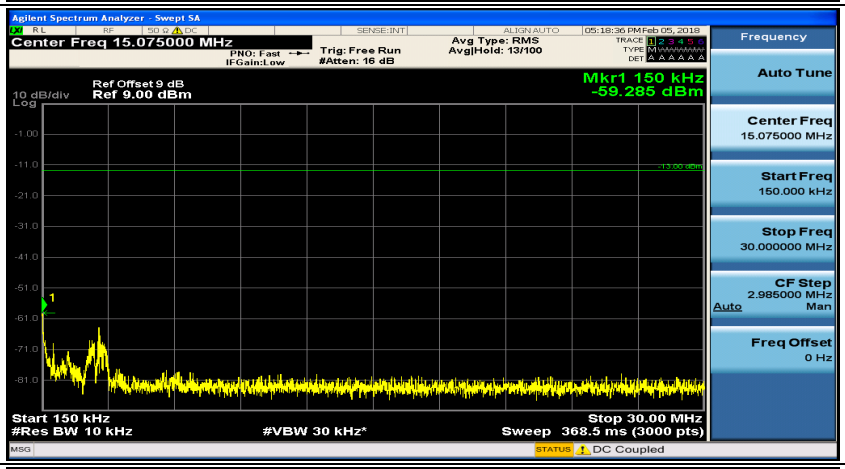
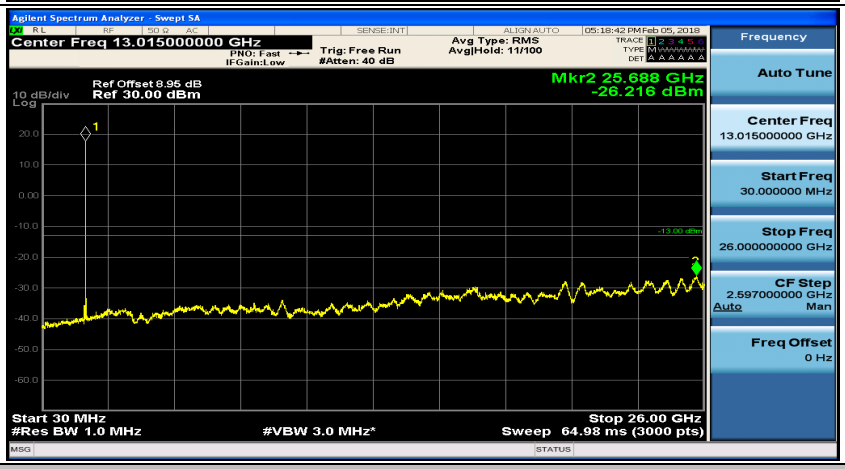



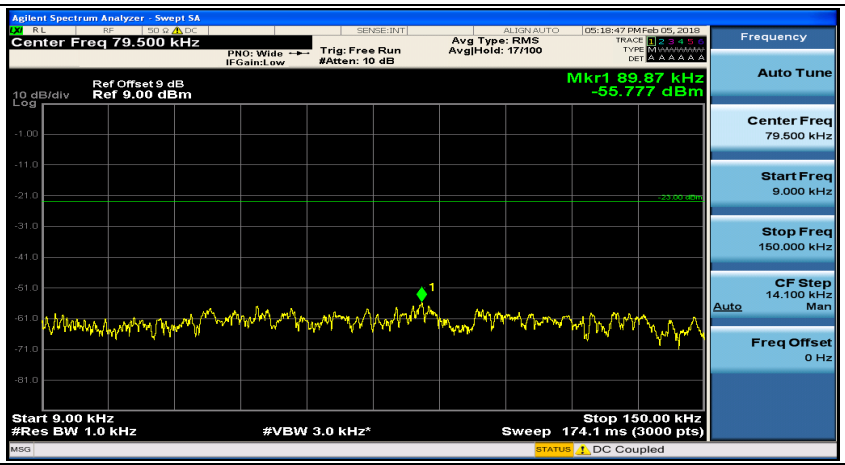

(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#99

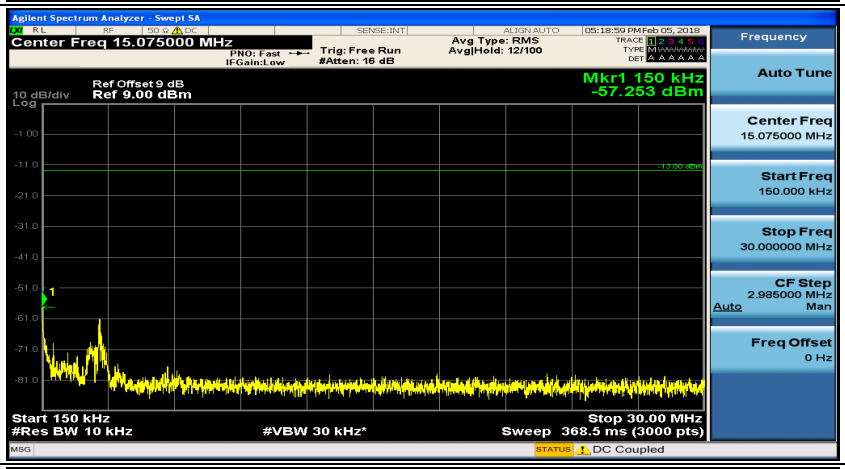

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
05:16:42 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 105.29 kHz
-57.406 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz

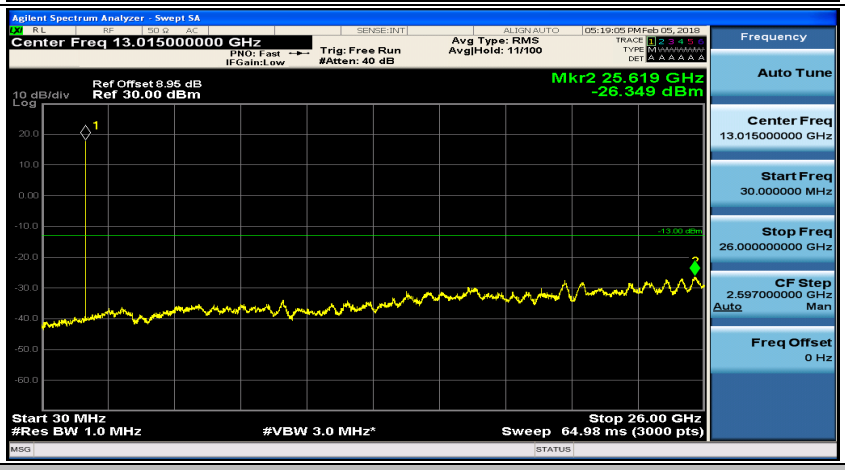

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 11/100
05:16:54 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 150 kHz
-54.805 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
05:17:00 PM Feb 05, 2018
Ref Offset 8.95 dB
10 dB/div
Log
Ref 30.00 dBm
Mkr2 25.628 GHz
-26.201 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

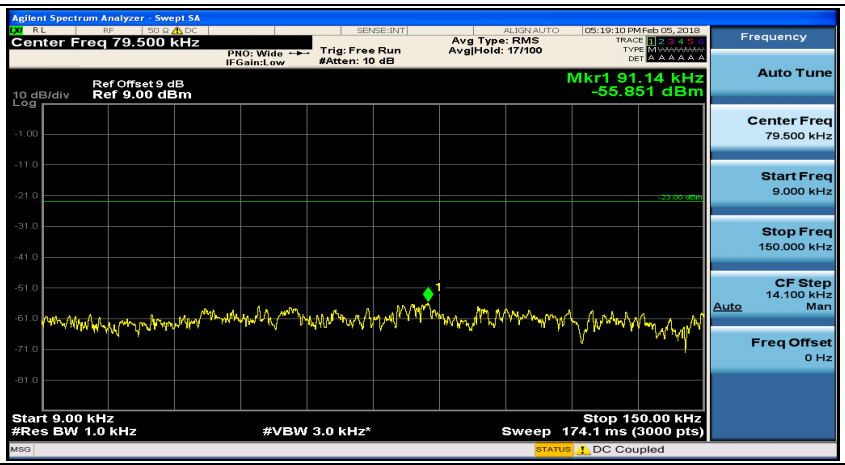
| (Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0 |
| --- |
|  |
|  |
|  |
| (Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49 |

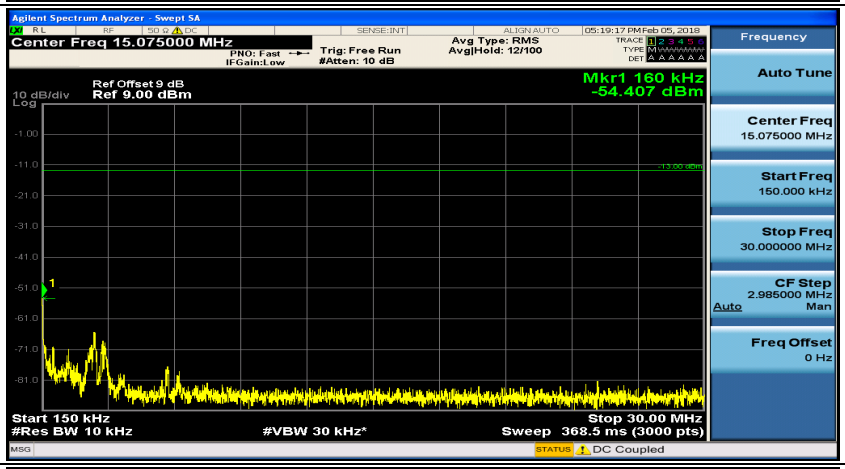


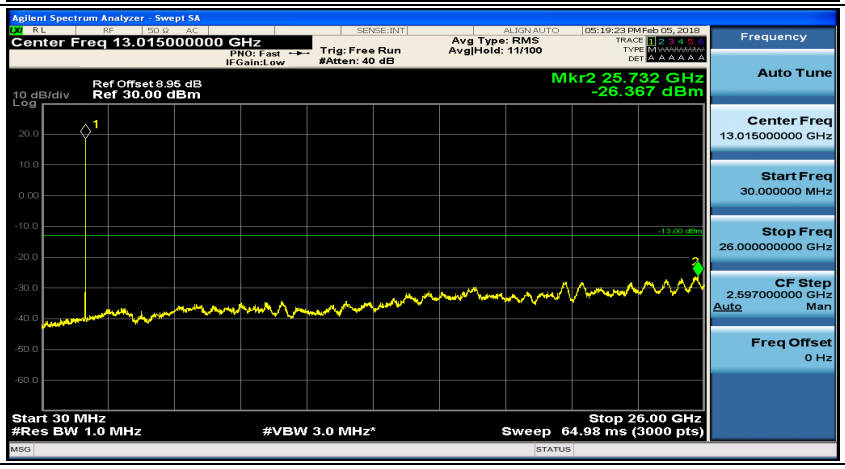



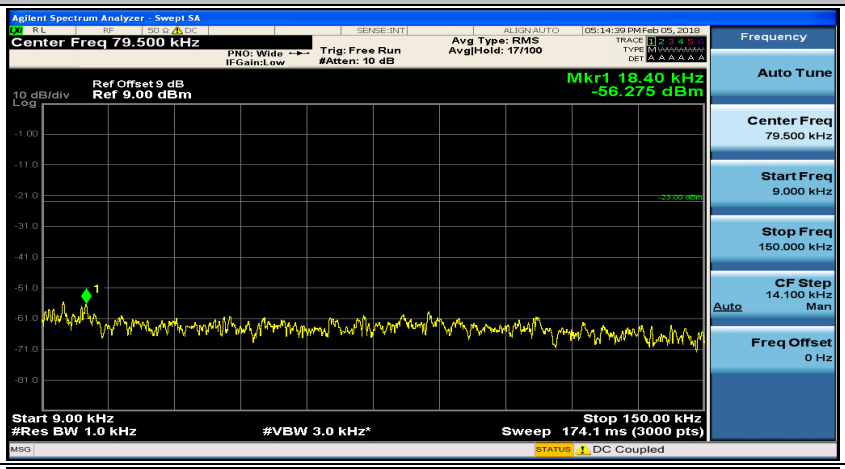
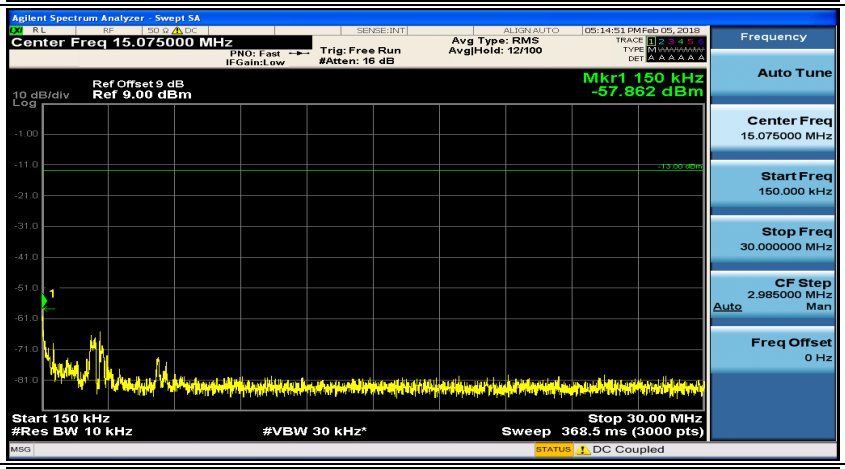
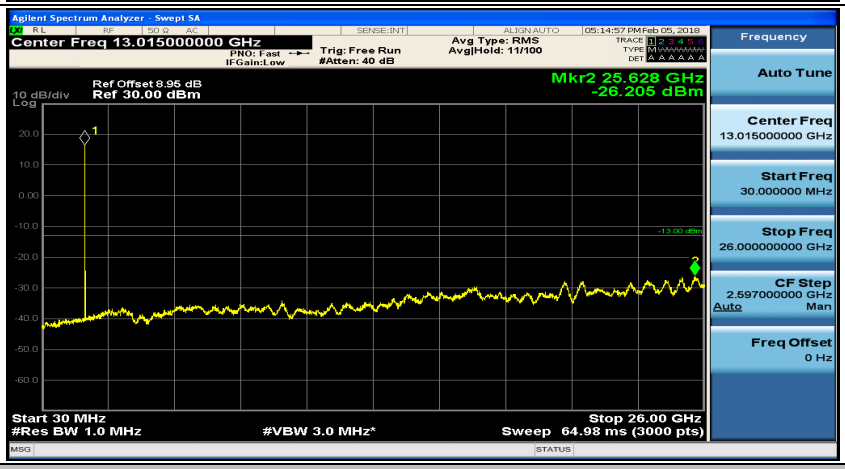



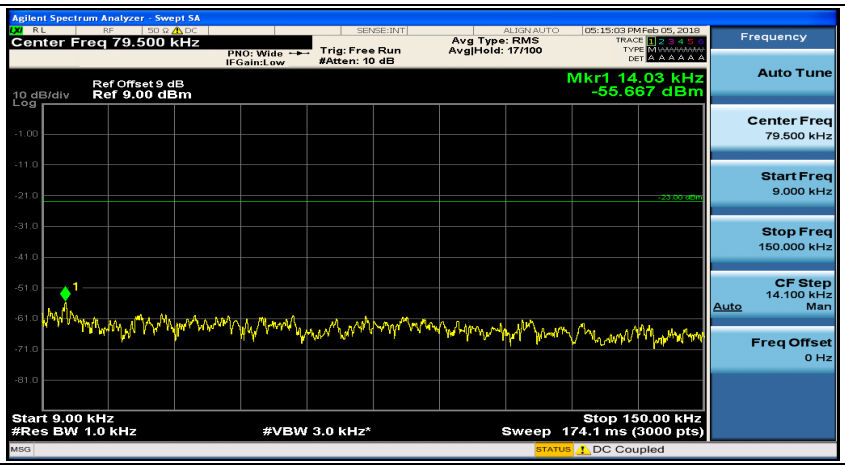

(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#99

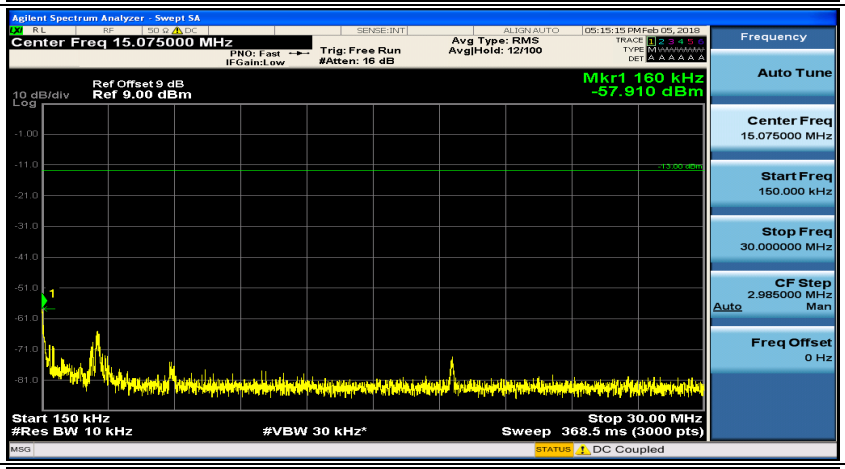

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
05:19:10 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 91.14 kHz
-55.851 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz

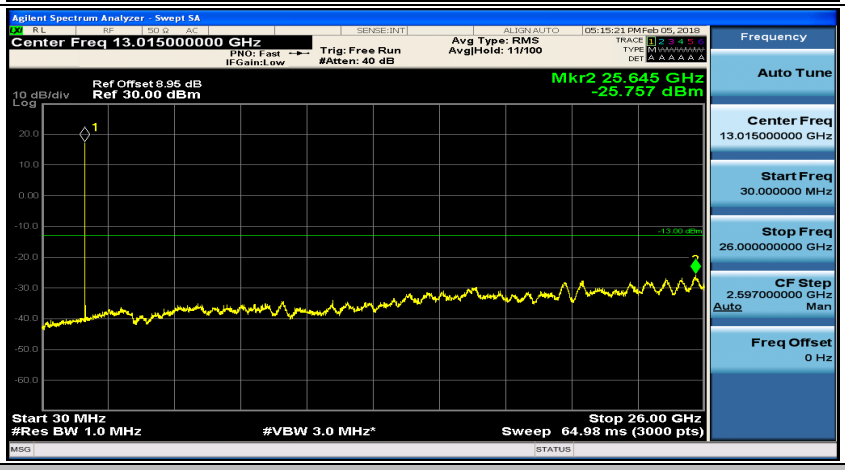

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 12/100
05:19:17 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 160 kHz
-54.407 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
05:19:23 PM Feb 05, 2018
Ref Offset 8.95 dB
10 dB/div
Log
Ref 30.00 dBm
Mkr2 25.732 GHz
-26.367 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

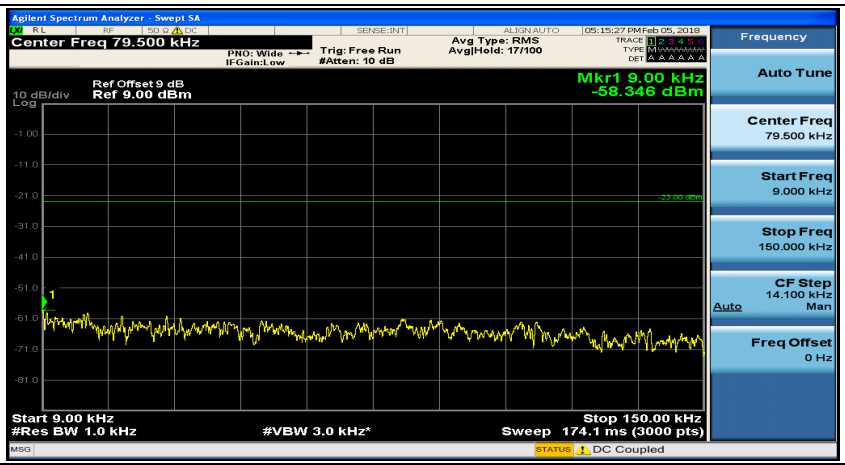
| (Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0 |
| --- |
|  |
|  |
|  |
| (Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49 |

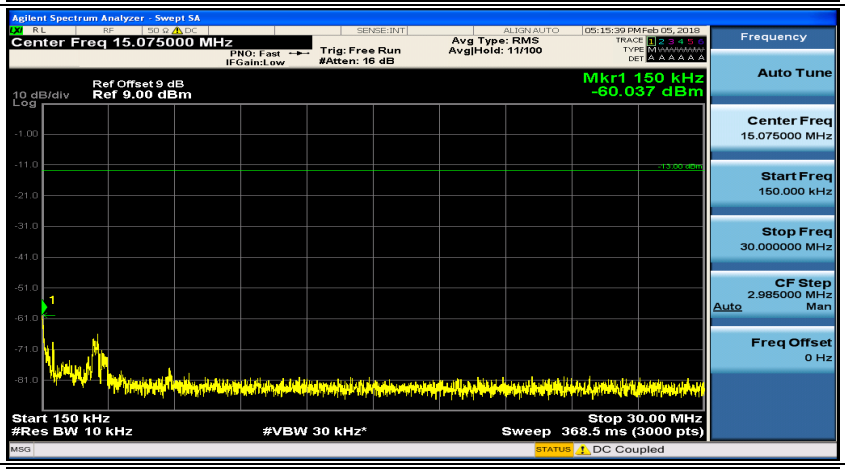


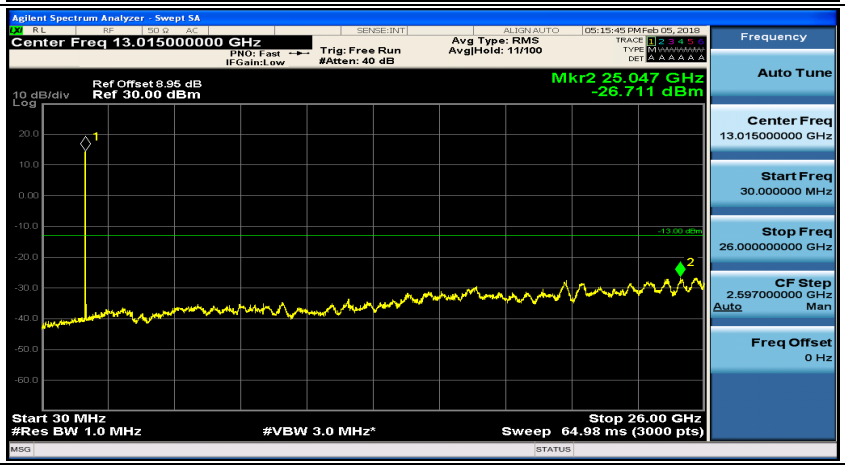



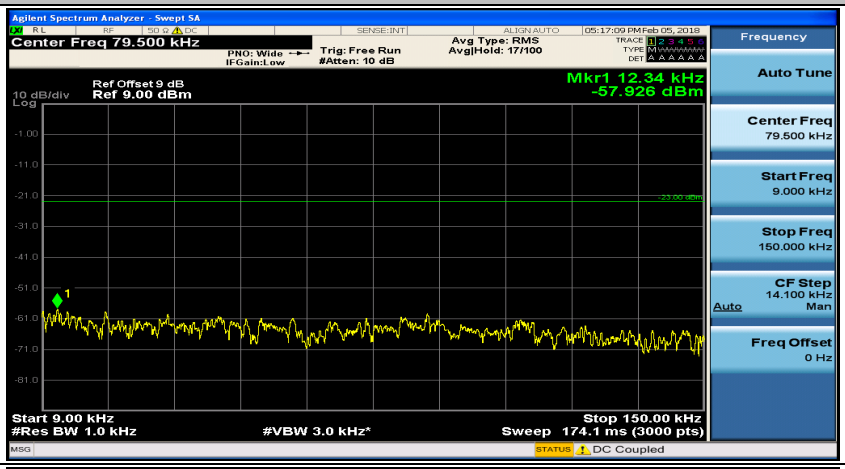
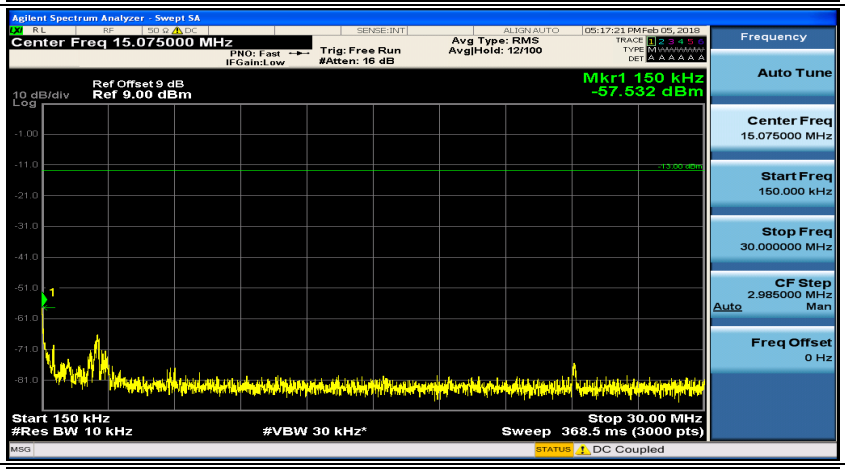
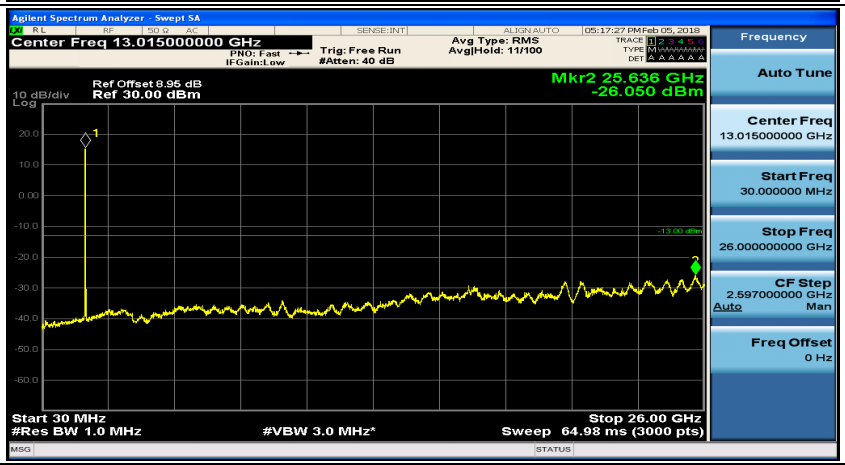



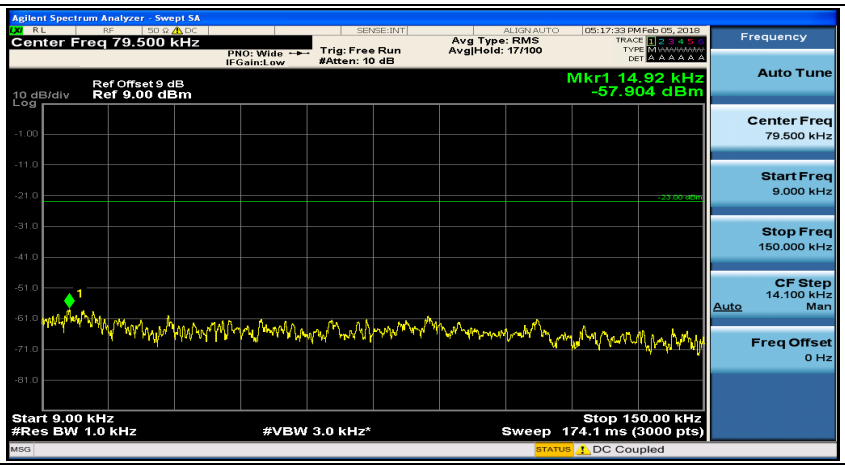

(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#99

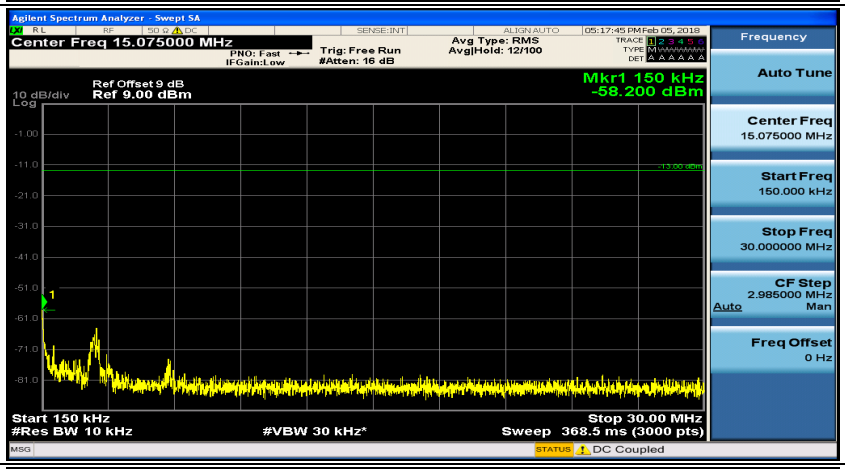

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
05:15:27 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 9.00 kHz
-58.346 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz

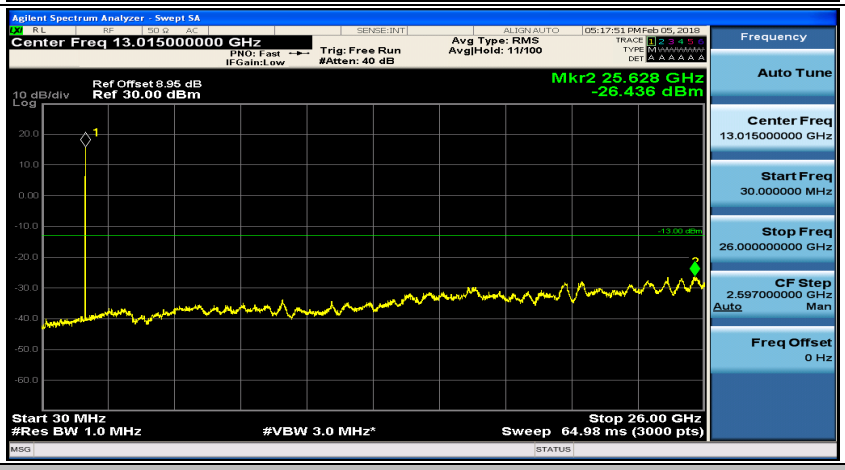

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 11/100
05:15:39 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 150 kHz
-60.037 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
05:15:45 PM Feb 05, 2018
Ref Offset 8.95 dB
10 dB/div
Log
Ref 30.00 dBm
Mkr2 25.047 GHz
-26.711 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

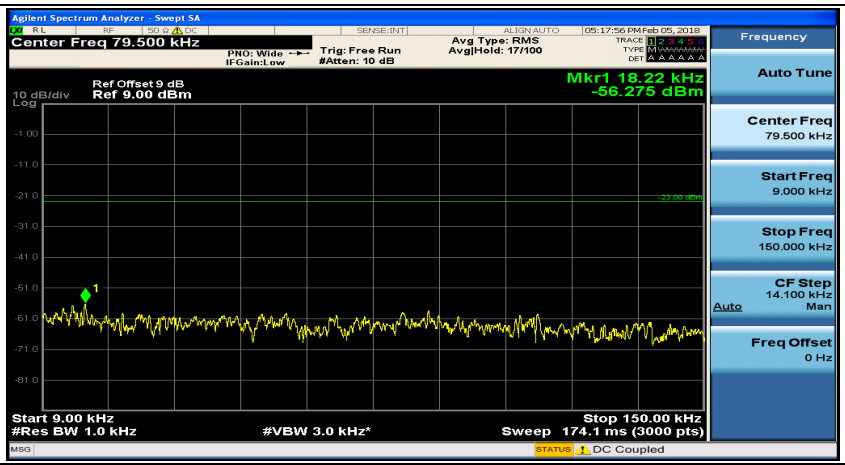
| (Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0 |
| --- |
|  |
|  |
|  |
| (Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49 |

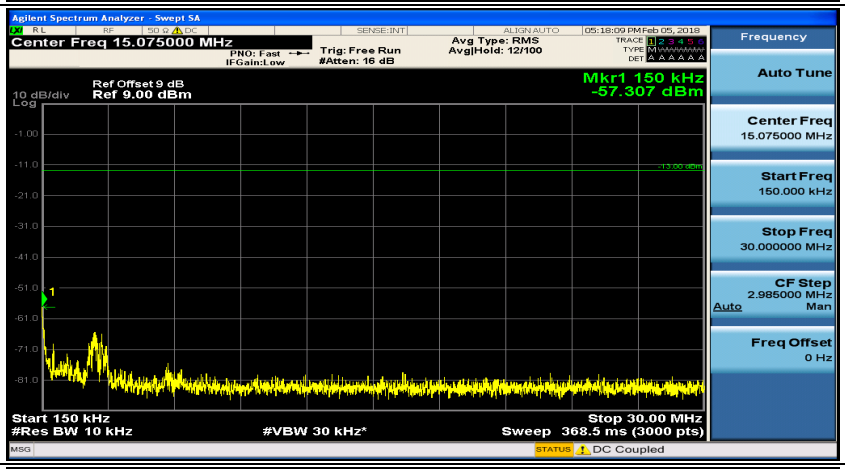


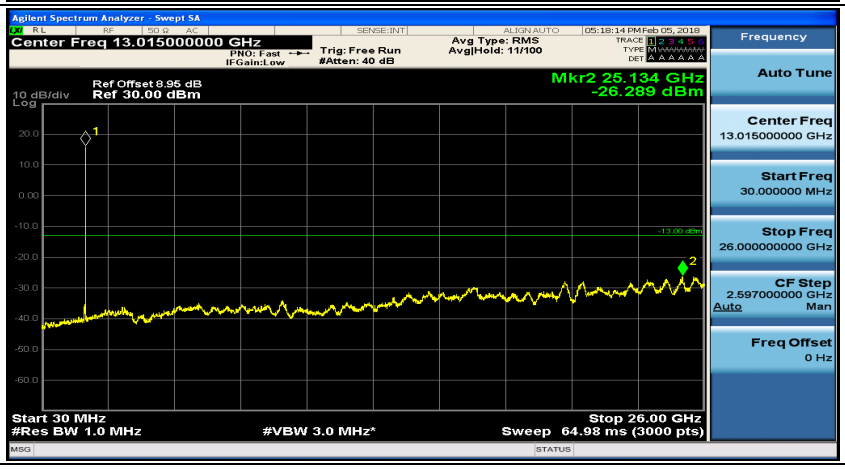



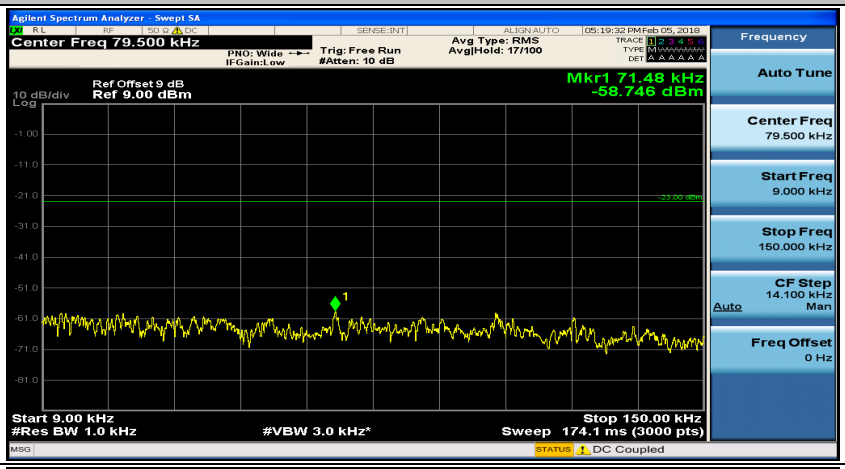
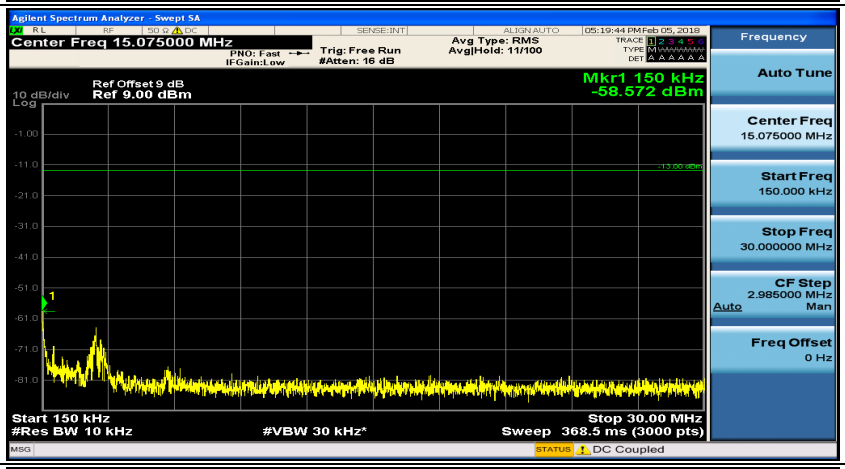
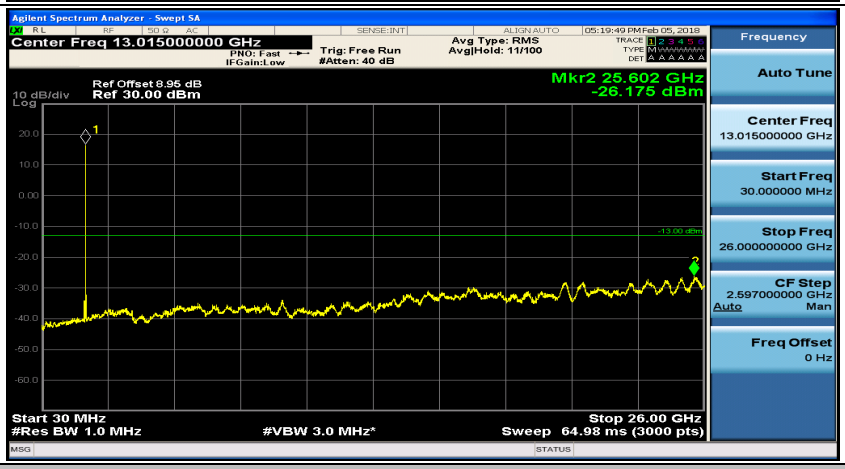



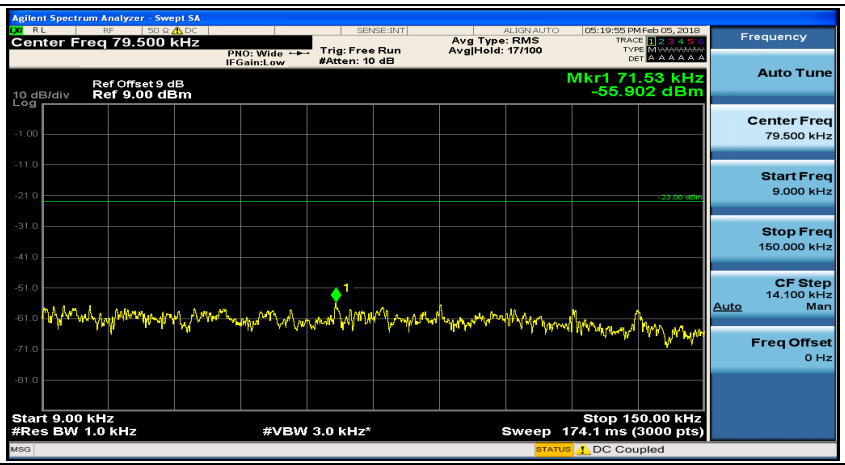

(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#99

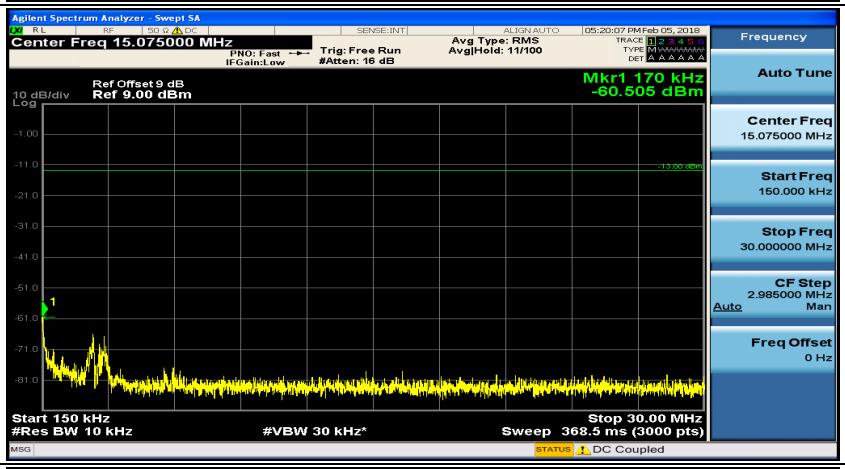

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
05:17:56 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 18.22 kHz
-56.275 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz

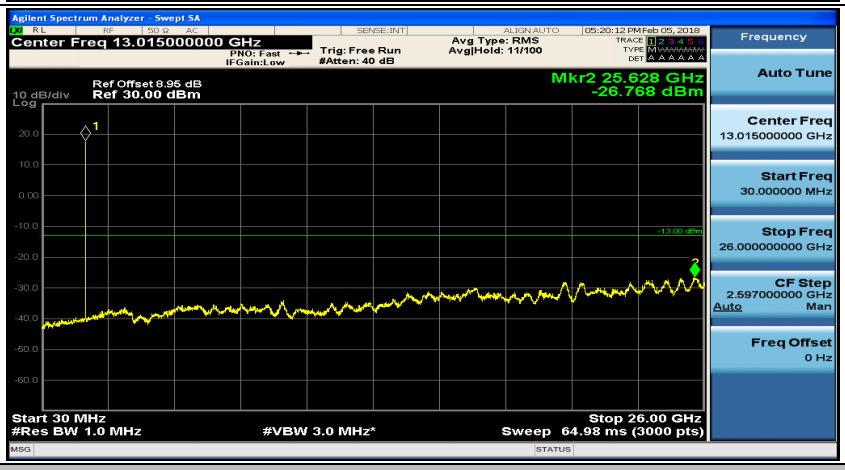

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
05:18:09 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 150 kHz
-57.307 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
05:18:14 PM Feb 05, 2018
Ref Offset 8.95 dB
10 dB/div
Log
Ref 30.00 dBm
Mkr2 25.134 GHz
-26.289 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

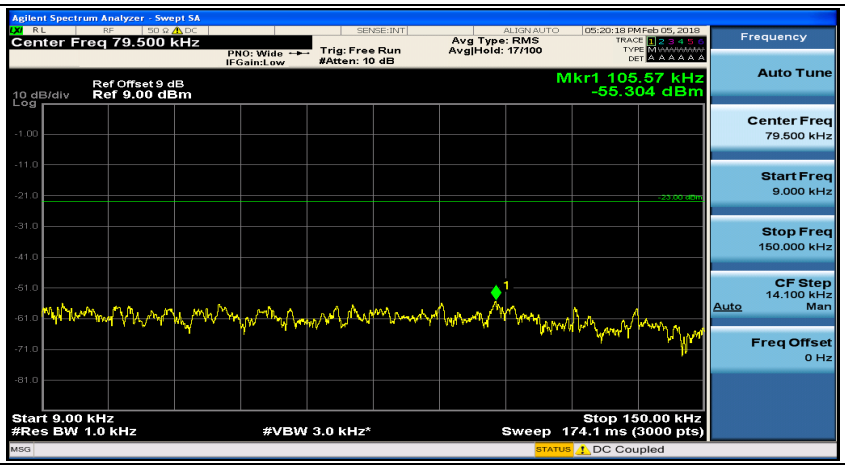
| (Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0 |
| --- |
|  |
|  |
|  |
| (Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#49 |

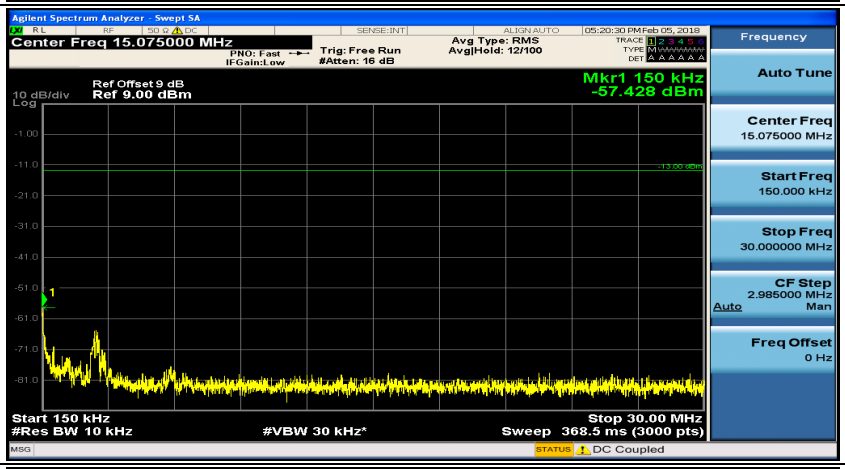


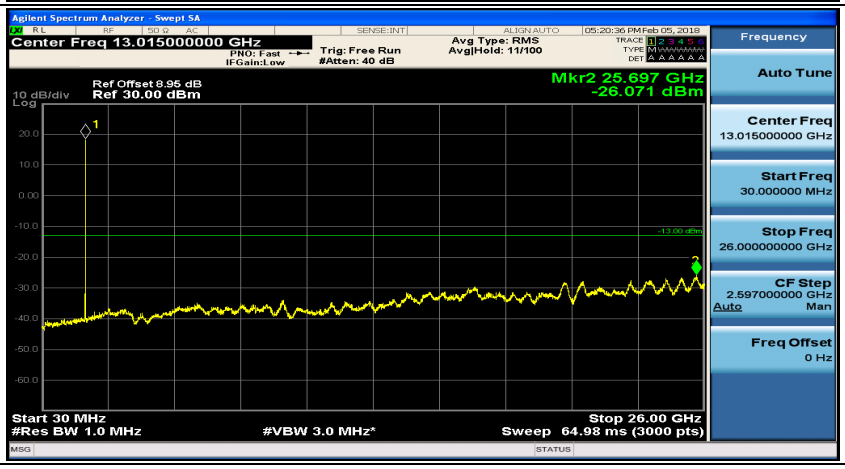




(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#99


Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
05:20:18 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 105.57 kHz
-55.304 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
05:20:30 PM Feb 05, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 150 kHz
-57.428 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
05:20:36 PM Feb 05, 2018
Ref Offset 8.95 dB
10 dB/div
Log
Ref 30.00 dBm
Mkr2 25.697 GHz
-26.071 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

# Appendix F: Frequency Stability

## Test Result

## Channel Bandwidth: 1.4 MHz

| Channel Bandwidth: 1.4 MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | -0.33 | -0.000193 | ± 2.5 | PASS |
| | | VN | TN | 1.43 | 0.000836 | ± 2.5 | PASS |
| | | VH | TN | -1.23 | -0.000719 | ± 2.5 | PASS |
| | MCH | VL | TN | 2.39 | 0.001380 | ± 2.5 | PASS |
| | | VN | TN | -0.25 | -0.000144 | ± 2.5 | PASS |
| | | VH | TN | -0.64 | -0.000369 | ± 2.5 | PASS |
| | HCH | VL | TN | 0.55 | 0.000314 | ± 2.5 | PASS |
| | | VN | TN | 3.19 | 0.001818 | ± 2.5 | PASS |
| | | VH | TN | 2.77 | 0.001579 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | -0.34 | -0.000199 | ± 2.5 | PASS |
| | | VN | TN | 2.32 | 0.001356 | ± 2.5 | PASS |
| | | VH | TN | 0.92 | 0.000538 | ± 2.5 | PASS |
| | MCH | VL | TN | 3.14 | 0.001812 | ± 2.5 | PASS |
| | | VN | TN | -1.3 | -0.000750 | ± 2.5 | PASS |
| | | VH | TN | 2.6 | 0.001501 | ± 2.5 | PASS |
| | HCH | VL | TN | 1.35 | 0.000770 | ± 2.5 | PASS |
| | | VN | TN | 3.76 | 0.002143 | ± 2.5 | PASS |
| | | VH | TN | -0.17 | -0.000097 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 2.99 | 0.001748 | ± 2.5 | PASS |
| | | VN | -20 | 4.84 | 0.002829 | ± 2.5 | PASS |
| | | VN | -10 | 4.5 | 0.002631 | ± 2.5 | PASS |
| | | VN | 0 | 1.69 | 0.000988 | ± 2.5 | PASS |
| | | VN | 10 | 4.56 | 0.002666 | ± 2.5 | PASS |
| | | VN | 20 | 4.38 | 0.002560 | ± 2.5 | PASS |
| | | VN | 30 | -0.05 | -0.000029 | ± 2.5 | PASS |
| | | VN | 40 | -1.95 | -0.001140 | ± 2.5 | PASS |
| | | VN | 50 | 2.05 | 0.001198 | ± 2.5 | PASS |
| | MCH | VN | -30 | -0.21 | -0.000121 | ± 2.5 | PASS |
| | | VN | -20 | 1.79 | 0.001033 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | -10 | -1.43 | -0.000825 | ± 2.5 | PASS |
| | | VN | 0 | 0.9 | 0.000519 | ± 2.5 | PASS |
| | | VN | 10 | 1.96 | 0.001131 | ± 2.5 | PASS |
| | | VN | 20 | -0.59 | -0.000341 | ± 2.5 | PASS |
| | | VN | 30 | 0.39 | 0.000225 | ± 2.5 | PASS |
| | | VN | 40 | 0.02 | 0.000012 | ± 2.5 | PASS |
| | | VN | 50 | 3.26 | 0.001882 | ± 2.5 | PASS |
| | HCH | VN | -30 | 2.26 | 0.001288 | ± 2.5 | PASS |
| | | VN | -20 | -0.7 | -0.000399 | ± 2.5 | PASS |
| | | VN | -10 | 1.55 | 0.000884 | ± 2.5 | PASS |
| | | VN | 0 | 2.46 | 0.001402 | ± 2.5 | PASS |
| | | VN | 10 | 0.46 | 0.000262 | ± 2.5 | PASS |
| | | VN | 20 | 4.18 | 0.002383 | ± 2.5 | PASS |
| | | VN | 30 | 3.36 | 0.001915 | ± 2.5 | PASS |
| | | VN | 40 | 2.7 | 0.001539 | ± 2.5 | PASS |
| | | VN | 50 | -0.87 | -0.000496 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 4.79 | 0.002800 | ± 2.5 | PASS |
| | | VN | -20 | 2.45 | 0.001432 | ± 2.5 | PASS |
| | | VN | -10 | 4.08 | 0.002385 | ± 2.5 | PASS |
| | | VN | 0 | 4.66 | 0.002724 | ± 2.5 | PASS |
| | | VN | 10 | 1.74 | 0.001017 | ± 2.5 | PASS |
| | | VN | 20 | 0.01 | 0.000006 | ± 2.5 | PASS |
| | | VN | 30 | 0.29 | 0.000170 | ± 2.5 | PASS |
| | | VN | 40 | 1.8 | 0.001052 | ± 2.5 | PASS |
| | | VN | 50 | 1.82 | 0.001064 | ± 2.5 | PASS |
| | MCH | VN | -30 | 3.92 | 0.002235 | ± 2.5 | PASS |
| | | VN | -20 | 1.2 | 0.000684 | ± 2.5 | PASS |
| | | VN | -10 | 3.38 | 0.001927 | ± 2.5 | PASS |
| | | VN | 0 | 1.77 | 0.001009 | ± 2.5 | PASS |
| | | VN | 10 | 2.81 | 0.001602 | ± 2.5 | PASS |
| | | VN | 20 | 1.1 | 0.000627 | ± 2.5 | PASS |
| | | VN | 30 | 4.99 | 0.002844 | ± 2.5 | PASS |
| | | VN | 40 | 2.35 | 0.001340 | ± 2.5 | PASS |
| | | VN | 50 | -1.13 | -0.000644 | ± 2.5 | PASS |
| | HCH | VN | -30 | 0.1 | 0.000057 | ± 2.5 | PASS |
| | | VN | -20 | -0.2 | -0.000114 | ± 2.5 | PASS |
| | | VN | -10 | 3.82 | 0.002178 | ± 2.5 | PASS |
| | | VN | 0 | 3.24 | 0.001847 | ± 2.5 | PASS |
| | | VN | 10 | 0.23 | 0.000131 | ± 2.5 | PASS |
| | | VN | 20 | 3.08 | 0.001756 | ± 2.5 | PASS |
| | | VN | 30 | 0.84 | 0.000479 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 40 | 4.56 | 0.002599 | ± 2.5 | PASS |
| | | VN | 50 | -1.01 | -0.000576 | ± 2.5 | PASS |

## Channel Bandwidth: 3 MHz

| Channel Bandwidth: 3 MHz+ | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 0.87 | 0.000508 | ± 2.5 | PASS |
| | | VN | TN | 4.29 | 0.002507 | ± 2.5 | PASS |
| | | VH | TN | 3.55 | 0.002074 | ± 2.5 | PASS |
| | MCH | VL | TN | -1.92 | -0.001108 | ± 2.5 | PASS |
| | | VN | TN | 0.18 | 0.000104 | ± 2.5 | PASS |
| | | VH | TN | 4.35 | 0.002511 | ± 2.5 | PASS |
| | HCH | VL | TN | 4.96 | 0.002829 | ± 2.5 | PASS |
| | | VN | TN | -1.65 | -0.000941 | ± 2.5 | PASS |
| | | VH | TN | 3.14 | 0.001791 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 2.52 | 0.001472 | ± 2.5 | PASS |
| | | VN | TN | 3.99 | 0.002331 | ± 2.5 | PASS |
| | | VH | TN | 4.94 | 0.002886 | ± 2.5 | PASS |
| | MCH | VL | TN | -1.51 | -0.000872 | ± 2.5 | PASS |
| | | VN | TN | 4.08 | 0.002355 | ± 2.5 | PASS |
| | | VH | TN | 1.76 | 0.001016 | ± 2.5 | PASS |
| | HCH | VL | TN | 3.59 | 0.002047 | ± 2.5 | PASS |
| | | VN | TN | 0.59 | 0.000336 | ± 2.5 | PASS |
| | | VH | TN | 1.72 | 0.000981 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 2.13 | 0.001245 | ± 2.5 | PASS |
| | | VN | -20 | 2.92 | 0.001706 | ± 2.5 | PASS |
| | | VN | -10 | 0.94 | 0.000549 | ± 2.5 | PASS |
| | | VN | 0 | 3.32 | 0.001940 | ± 2.5 | PASS |
| | | VN | 10 | 3.94 | 0.002302 | ± 2.5 | PASS |
| | | VN | 20 | 4.43 | 0.002588 | ± 2.5 | PASS |
| | | VN | 30 | 1.02 | 0.000596 | ± 2.5 | PASS |
| | | VN | 40 | 1.8 | 0.001052 | ± 2.5 | PASS |
| | | VN | 50 | 0.84 | 0.000491 | ± 2.5 | PASS |
| | MCH | VN | -30 | 4.27 | 0.002465 | ± 2.5 | PASS |
| | | VN | -20 | 4.95 | 0.002857 | ± 2.5 | PASS |
| | | VN | -10 | 2.89 | 0.001668 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 0 | 1.32 | 0.000762 | ± 2.5 | PASS |
| | | VN | 10 | -1.69 | -0.000975 | ± 2.5 | PASS |
| | | VN | 20 | -1.98 | -0.001143 | ± 2.5 | PASS |
| | | VN | 30 | 3.71 | 0.002141 | ± 2.5 | PASS |
| | | VN | 40 | -0.94 | -0.000543 | ± 2.5 | PASS |
| | | VN | 50 | -1.28 | -0.000739 | ± 2.5 | PASS |
| | HCH | VN | -30 | 2.98 | 0.001699 | ± 2.5 | PASS |
| | | VN | -20 | 2.98 | 0.001699 | ± 2.5 | PASS |
| | | VN | -10 | 4.64 | 0.002646 | ± 2.5 | PASS |
| | | VN | 0 | 3.55 | 0.002025 | ± 2.5 | PASS |
| | | VN | 10 | -1.79 | -0.001021 | ± 2.5 | PASS |
| | | VN | 20 | 1.14 | 0.000650 | ± 2.5 | PASS |
| | | VN | 30 | -1.88 | -0.001072 | ± 2.5 | PASS |
| | | VN | 40 | 0.73 | 0.000416 | ± 2.5 | PASS |
| | | VN | 50 | 1.37 | 0.000781 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 4.31 | 0.002488 | ± 2.5 | PASS |
| | | VN | -20 | 4 | 0.002309 | ± 2.5 | PASS |
| | | VN | -10 | 4.29 | 0.002476 | ± 2.5 | PASS |
| | | VN | 0 | 0.36 | 0.000208 | ± 2.5 | PASS |
| | | VN | 10 | 0.76 | 0.000439 | ± 2.5 | PASS |
| | | VN | 20 | 0.24 | 0.000139 | ± 2.5 | PASS |
| | | VN | 30 | -0.4 | -0.000231 | ± 2.5 | PASS |
| | | VN | 40 | 1.98 | 0.001143 | ± 2.5 | PASS |
| | | VN | 50 | -1.37 | -0.000791 | ± 2.5 | PASS |
| | MCH | VN | -30 | 3.03 | 0.001728 | ± 2.5 | PASS |
| | | VN | -20 | -1.28 | -0.000730 | ± 2.5 | PASS |
| | | VN | -10 | 4.72 | 0.002692 | ± 2.5 | PASS |
| | | VN | 0 | 0.94 | 0.000536 | ± 2.5 | PASS |
| | | VN | 10 | 0.66 | 0.000376 | ± 2.5 | PASS |
| | | VN | 20 | -1.11 | -0.000633 | ± 2.5 | PASS |
| | | VN | 30 | 3.73 | 0.002127 | ± 2.5 | PASS |
| | | VN | 40 | 1.17 | 0.000667 | ± 2.5 | PASS |
| | | VN | 50 | 1.06 | 0.000605 | ± 2.5 | PASS |
| | HCH | VN | -30 | 0.84 | 0.000479 | ± 2.5 | PASS |
| | | VN | -20 | 3.74 | 0.002133 | ± 2.5 | PASS |
| | | VN | -10 | -1.98 | -0.001129 | ± 2.5 | PASS |
| | | VN | 0 | -1.09 | -0.000622 | ± 2.5 | PASS |
| | | VN | 10 | 4.46 | 0.002543 | ± 2.5 | PASS |
| | | VN | 20 | 0.24 | 0.000137 | ± 2.5 | PASS |
| | | VN | 30 | 0.74 | 0.000422 | ± 2.5 | PASS |
| | | VN | 40 | 0.34 | 0.000194 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 50 | 0.02 | 0.000011 | ± 2.5 | PASS |

## Channel Bandwidth: 5 MHz

| Channel Bandwidth: 5 MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | -1.68 | -0.000981 | ± 2.5 | PASS |
| | | VN | TN | 1.15 | 0.000672 | ± 2.5 | PASS |
| | | VH | TN | 0.53 | 0.000309 | ± 2.5 | PASS |
| | MCH | VL | TN | 2.22 | 0.001281 | ± 2.5 | PASS |
| | | VN | TN | -1.69 | -0.000975 | ± 2.5 | PASS |
| | | VH | TN | 1.97 | 0.001137 | ± 2.5 | PASS |
| | HCH | VL | TN | 4.97 | 0.002836 | ± 2.5 | PASS |
| | | VN | TN | 0.71 | 0.000405 | ± 2.5 | PASS |
| | | VH | TN | 1.01 | 0.000576 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | -1.17 | -0.000683 | ± 2.5 | PASS |
| | | VN | TN | -0.77 | -0.000450 | ± 2.5 | PASS |
| | | VH | TN | -0.85 | -0.000496 | ± 2.5 | PASS |
| | MCH | VL | TN | 3.07 | 0.001772 | ± 2.5 | PASS |
| | | VN | TN | 2.35 | 0.001356 | ± 2.5 | PASS |
| | | VH | TN | 3.43 | 0.001980 | ± 2.5 | PASS |
| | HCH | VL | TN | 0.28 | 0.000160 | ± 2.5 | PASS |
| | | VN | TN | -0.38 | -0.000217 | ± 2.5 | PASS |
| | | VH | TN | 4.48 | 0.002556 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 3.91 | 0.002283 | ± 2.5 | PASS |
| | | VN | -20 | -0.21 | -0.000123 | ± 2.5 | PASS |
| | | VN | -10 | -1.99 | -0.001162 | ± 2.5 | PASS |
| | | VN | 0 | 4.16 | 0.002429 | ± 2.5 | PASS |
| | | VN | 10 | -0.01 | -0.000006 | ± 2.5 | PASS |
| | | VN | 20 | -1.99 | -0.001162 | ± 2.5 | PASS |
| | | VN | 30 | 3.65 | 0.002131 | ± 2.5 | PASS |
| | | VN | 40 | 3.67 | 0.002143 | ± 2.5 | PASS |
| | | VN | 50 | 3.34 | 0.001950 | ± 2.5 | PASS |
| | MCH | VN | -30 | 1.11 | 0.000641 | ± 2.5 | PASS |
| | | VN | -20 | 0.87 | 0.000502 | ± 2.5 | PASS |
| | | VN | -10 | -0.93 | -0.000537 | ± 2.5 | PASS |
| | | VN | 0 | 4.44 | 0.002563 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 10 | 3.83 | 0.002211 | ± 2.5 | PASS |
| | | VN | 20 | -1.8 | -0.001039 | ± 2.5 | PASS |
| | | VN | 30 | 0.05 | 0.000029 | ± 2.5 | PASS |
| | | VN | 40 | 4.89 | 0.002823 | ± 2.5 | PASS |
| | | VN | 50 | 0.7 | 0.000404 | ± 2.5 | PASS |
| | HCH | VN | -30 | 0.57 | 0.000325 | ± 2.5 | PASS |
| | | VN | -20 | -1.43 | -0.000750 | ± 2.5 | PASS |
| | | VN | -10 | 1.6 | 0.000839 | ± 2.5 | PASS |
| | | VN | 0 | 3.76 | 0.001971 | ± 2.5 | PASS |
| | | VN | 10 | 2.41 | 0.001263 | ± 2.5 | PASS |
| | | VN | 20 | 2.07 | 0.001085 | ± 2.5 | PASS |
| | | VN | 30 | 1.08 | 0.000566 | ± 2.5 | PASS |
| | | VN | 40 | -1 | -0.000524 | ± 2.5 | PASS |
| | | VN | 50 | -1.83 | -0.000959 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 1.83 | 0.001056 | ± 2.5 | PASS |
| | | VN | -20 | 1.13 | 0.000652 | ± 2.5 | PASS |
| | | VN | -10 | -1.15 | -0.000664 | ± 2.5 | PASS |
| | | VN | 0 | -0.82 | -0.000473 | ± 2.5 | PASS |
| | | VN | 10 | 4.16 | 0.002401 | ± 2.5 | PASS |
| | | VN | 20 | 1.55 | 0.000895 | ± 2.5 | PASS |
| | | VN | 30 | 4.39 | 0.002534 | ± 2.5 | PASS |
| | | VN | 40 | 1.18 | 0.000681 | ± 2.5 | PASS |
| | | VN | 50 | -0.31 | -0.000179 | ± 2.5 | PASS |
| | MCH | VN | -30 | 4.36 | 0.002488 | ± 2.5 | PASS |
| | | VN | -20 | -1.49 | -0.000850 | ± 2.5 | PASS |
| | | VN | -10 | 0.01 | 0.000006 | ± 2.5 | PASS |
| | | VN | 0 | 0.4 | 0.000228 | ± 2.5 | PASS |
| | | VN | 10 | -1 | -0.000571 | ± 2.5 | PASS |
| | | VN | 20 | -0.1 | -0.000057 | ± 2.5 | PASS |
| | | VN | 30 | 4.62 | 0.002636 | ± 2.5 | PASS |
| | | VN | 40 | 3.13 | 0.001786 | ± 2.5 | PASS |
| | | VN | 50 | 1.15 | 0.000656 | ± 2.5 | PASS |
| | HCH | VN | -30 | 4.15 | 0.002176 | ± 2.5 | PASS |
| | | VN | -20 | -0.08 | -0.000042 | ± 2.5 | PASS |
| | | VN | -10 | 3.94 | 0.002066 | ± 2.5 | PASS |
| | | VN | 0 | 4.87 | 0.002553 | ± 2.5 | PASS |
| | | VN | 10 | -0.84 | -0.000440 | ± 2.5 | PASS |
| | | VN | 20 | 4.09 | 0.002144 | ± 2.5 | PASS |
| | | VN | 30 | 3.29 | 0.001725 | ± 2.5 | PASS |
| | | VN | 40 | -1.99 | -0.001043 | ± 2.5 | PASS |
| | | VN | 50 | 4.65 | 0.002438 | ± 2.5 | PASS |

## Channel Bandwidth: 10 MHz

| Channel Bandwidth: 10 MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 4.69 | 0.002735 | ± 2.5 | PASS |
| | | VN | TN | 2.71 | 0.001580 | ± 2.5 | PASS |
| | | VH | TN | 1.24 | 0.000723 | ± 2.5 | PASS |
| | MCH | VL | TN | 2.5 | 0.001443 | ± 2.5 | PASS |
| | | VN | TN | 0.66 | 0.000381 | ± 2.5 | PASS |
| | | VH | TN | -1.34 | -0.000773 | ± 2.5 | PASS |
| | HCH | VL | TN | 2.39 | 0.001366 | ± 2.5 | PASS |
| | | VN | TN | 1.89 | 0.001080 | ± 2.5 | PASS |
| | | VH | TN | 2.65 | 0.001514 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 0.41 | 0.000239 | ± 2.5 | PASS |
| | | VN | TN | 0.33 | 0.000192 | ± 2.5 | PASS |
| | | VH | TN | -0.4 | -0.000233 | ± 2.5 | PASS |
| | MCH | VL | TN | 0.46 | 0.000266 | ± 2.5 | PASS |
| | | VN | TN | -1.7 | -0.000981 | ± 2.5 | PASS |
| | | VH | TN | 3.29 | 0.001899 | ± 2.5 | PASS |
| | HCH | VL | TN | -0.38 | -0.000217 | ± 2.5 | PASS |
| | | VN | TN | 2.85 | 0.001629 | ± 2.5 | PASS |
| | | VH | TN | 4 | 0.002286 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 16QAM | LCH | VN | -30 | 2.34 | 0.001364 | ± 2.5 | PASS |
| | | VN | -20 | -0.25 | -0.000146 | ± 2.5 | PASS |
| | | VN | -10 | -1.04 | -0.000606 | ± 2.5 | PASS |
| | | VN | 0 | 2.4 | 0.001399 | ± 2.5 | PASS |
| | | VN | 10 | -1.08 | -0.000630 | ± 2.5 | PASS |
| | | VN | 20 | 2.83 | 0.001650 | ± 2.5 | PASS |
| | | VN | 30 | 1.06 | 0.000618 | ± 2.5 | PASS |
| | | VN | 40 | 4.25 | 0.002478 | ± 2.5 | PASS |
| | | VN | 50 | 3.15 | 0.001837 | ± 2.5 | PASS |
| | MCH | VN | -30 | 4.04 | 0.002332 | ± 2.5 | PASS |
| | | VN | -20 | 2.45 | 0.001414 | ± 2.5 | PASS |
| | | VN | -10 | 4.42 | 0.002551 | ± 2.5 | PASS |
| | | VN | 0 | 3.11 | 0.001795 | ± 2.5 | PASS |
| | | VN | 10 | -0.92 | -0.000531 | ± 2.5 | PASS |
| | | VN | 20 | -0.33 | -0.000190 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 30 | 1.4 | 0.000808 | ± 2.5 | PASS |
| | | VN | 40 | -0.23 | -0.000133 | ± 2.5 | PASS |
| | | VN | 50 | -1.37 | -0.000791 | ± 2.5 | PASS |
| | HCH | VN | -30 | 2.65 | 0.001514 | ± 2.5 | PASS |
| | | VN | -20 | 0.66 | 0.000377 | ± 2.5 | PASS |
| | | VN | -10 | 4.17 | 0.002383 | ± 2.5 | PASS |
| | | VN | 0 | 2.11 | 0.001206 | ± 2.5 | PASS |
| | | VN | 10 | 0.12 | 0.000069 | ± 2.5 | PASS |
| | | VN | 20 | 2.19 | 0.001251 | ± 2.5 | PASS |
| | | VN | 30 | -0.62 | -0.000354 | ± 2.5 | PASS |
| | | VN | 40 | 1.18 | 0.000674 | ± 2.5 | PASS |
| | | VN | 50 | 0.38 | 0.000217 | ± 2.5 | PASS |
| QPSK | LCH | VN | -30 | 4.33 | 0.002499 | ± 2.5 | PASS |
| | | VN | -20 | 1.14 | 0.000658 | ± 2.5 | PASS |
| | | VN | -10 | 0.49 | 0.000283 | ± 2.5 | PASS |
| | | VN | 0 | -1.72 | -0.000993 | ± 2.5 | PASS |
| | | VN | 10 | 1.58 | 0.000912 | ± 2.5 | PASS |
| | | VN | 20 | -1.06 | -0.000612 | ± 2.5 | PASS |
| | | VN | 30 | 0.71 | 0.000410 | ± 2.5 | PASS |
| | | VN | 40 | 0.73 | 0.000421 | ± 2.5 | PASS |
| | | VN | 50 | -0.45 | -0.000260 | ± 2.5 | PASS |
| | MCH | VN | -30 | 0.58 | 0.000331 | ± 2.5 | PASS |
| | | VN | -20 | 0.03 | 0.000017 | ± 2.5 | PASS |
| | | VN | -10 | -0.45 | -0.000257 | ± 2.5 | PASS |
| | | VN | 0 | -0.22 | -0.000126 | ± 2.5 | PASS |
| | | VN | 10 | 1.6 | 0.000914 | ± 2.5 | PASS |
| | | VN | 20 | -0.64 | -0.000366 | ± 2.5 | PASS |
| | | VN | 30 | 0.41 | 0.000234 | ± 2.5 | PASS |
| | | VN | 40 | -0.78 | -0.000446 | ± 2.5 | PASS |
| | | VN | 50 | 0.22 | 0.000126 | ± 2.5 | PASS |
| | HCH | VN | -30 | -0.97 | -0.000554 | ± 2.5 | PASS |
| | | VN | -20 | 1.31 | 0.000749 | ± 2.5 | PASS |
| | | VN | -10 | 1.37 | 0.000783 | ± 2.5 | PASS |
| | | VN | 0 | 3.9 | 0.002229 | ± 2.5 | PASS |
| | | VN | 10 | 3.23 | 0.001846 | ± 2.5 | PASS |
| | | VN | 20 | -0.55 | -0.000314 | ± 2.5 | PASS |
| | | VN | 30 | 3.65 | 0.002086 | ± 2.5 | PASS |
| | | VN | 40 | 2.5 | 0.001429 | ± 2.5 | PASS |
| | | VN | 50 | 3.09 | 0.001766 | ± 2.5 | PASS |

## Channel Bandwidth: 15 MHz

| Channel Bandwidth: 15 MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 4.52 | 0.002632 | ± 2.5 | PASS |
| | | VN | TN | 2.37 | 0.001380 | ± 2.5 | PASS |
| | | VH | TN | 0.64 | 0.000373 | ± 2.5 | PASS |
| | MCH | VL | TN | -1.66 | -0.000958 | ± 2.5 | PASS |
| | | VN | TN | 4.06 | 0.002343 | ± 2.5 | PASS |
| | | VH | TN | 1.68 | 0.000970 | ± 2.5 | PASS |
| | HCH | VL | TN | 0.88 | 0.000504 | ± 2.5 | PASS |
| | | VN | TN | 4.16 | 0.002381 | ± 2.5 | PASS |
| | | VH | TN | 0.36 | 0.000206 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 3.09 | 0.001799 | ± 2.5 | PASS |
| | | VN | TN | -0.11 | -0.000064 | ± 2.5 | PASS |
| | | VH | TN | 0.03 | 0.000017 | ± 2.5 | PASS |
| | MCH | VL | TN | 4.06 | 0.002343 | ± 2.5 | PASS |
| | | VN | TN | 3.93 | 0.002268 | ± 2.5 | PASS |
| | | VH | TN | 1.29 | 0.000745 | ± 2.5 | PASS |
| | HCH | VL | TN | 3.55 | 0.002031 | ± 2.5 | PASS |
| | | VN | TN | -1.88 | -0.001076 | ± 2.5 | PASS |
| | | VH | TN | -0.7 | -0.000401 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | -1.3 | -0.000757 | ± 2.5 | PASS |
| | | VN | -20 | 2.23 | 0.001298 | ± 2.5 | PASS |
| | | VN | -10 | 3.4 | 0.001980 | ± 2.5 | PASS |
| | | VN | 0 | 2.46 | 0.001432 | ± 2.5 | PASS |
| | | VN | 10 | 1.1 | 0.000640 | ± 2.5 | PASS |
| | | VN | 20 | -1.09 | -0.000635 | ± 2.5 | PASS |
| | | VN | 30 | -0.86 | -0.000501 | ± 2.5 | PASS |
| | | VN | 40 | 3.45 | 0.002009 | ± 2.5 | PASS |
| | | VN | 50 | -1.31 | -0.000763 | ± 2.5 | PASS |
| | MCH | VN | -30 | 3.12 | 0.001801 | ± 2.5 | PASS |
| | | VN | -20 | 0.28 | 0.000162 | ± 2.5 | PASS |
| | | VN | -10 | 2.07 | 0.001195 | ± 2.5 | PASS |
| | | VN | 0 | -1.33 | -0.000768 | ± 2.5 | PASS |
| | | VN | 10 | 0.04 | 0.000023 | ± 2.5 | PASS |
| | | VN | 20 | 4.82 | 0.002782 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 30 | 4.36 | 0.002517 | ± 2.5 | PASS |
| | | VN | 40 | -0.91 | -0.000525 | ± 2.5 | PASS |
| | | VN | 50 | 2.32 | 0.001339 | ± 2.5 | PASS |
| | HCH | VN | -30 | 2.16 | 0.001236 | ± 2.5 | PASS |
| | | VN | -20 | 2.23 | 0.001276 | ± 2.5 | PASS |
| | | VN | -10 | -1.2 | -0.000687 | ± 2.5 | PASS |
| | | VN | 0 | -1.42 | -0.000813 | ± 2.5 | PASS |
| | | VN | 10 | -1.08 | -0.000618 | ± 2.5 | PASS |
| | | VN | 20 | 4.01 | 0.002295 | ± 2.5 | PASS |
| | | VN | 30 | 3.71 | 0.002123 | ± 2.5 | PASS |
| | | VN | 40 | -0.36 | -0.000206 | ± 2.5 | PASS |
| | | VN | 50 | 0.84 | 0.000481 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 4.96 | 0.002863 | ± 2.5 | PASS |
| | | VN | -20 | -0.72 | -0.000416 | ± 2.5 | PASS |
| | | VN | -10 | 4.99 | 0.002880 | ± 2.5 | PASS |
| | | VN | 0 | 4.63 | 0.002672 | ± 2.5 | PASS |
| | | VN | 10 | 0.4 | 0.000231 | ± 2.5 | PASS |
| | | VN | 20 | 1.45 | 0.000837 | ± 2.5 | PASS |
| | | VN | 30 | 2.48 | 0.001431 | ± 2.5 | PASS |
| | | VN | 40 | 3.05 | 0.001760 | ± 2.5 | PASS |
| | | VN | 50 | 1.75 | 0.001010 | ± 2.5 | PASS |
| | MCH | VN | -30 | 2.35 | 0.001345 | ± 2.5 | PASS |
| | | VN | -20 | 4.01 | 0.002295 | ± 2.5 | PASS |
| | | VN | -10 | 4.22 | 0.002415 | ± 2.5 | PASS |
| | | VN | 0 | -0.27 | -0.000155 | ± 2.5 | PASS |
| | | VN | 10 | 2.98 | 0.001705 | ± 2.5 | PASS |
| | | VN | 20 | 4.8 | 0.002747 | ± 2.5 | PASS |
| | | VN | 30 | 2.44 | 0.001396 | ± 2.5 | PASS |
| | | VN | 40 | 2.07 | 0.001185 | ± 2.5 | PASS |
| | | VN | 50 | 4.49 | 0.002569 | ± 2.5 | PASS |
| | HCH | VN | -30 | 3.97 | 0.002272 | ± 2.5 | PASS |
| | | VN | -20 | 4.04 | 0.002312 | ± 2.5 | PASS |
| | | VN | -10 | -1.18 | -0.000675 | ± 2.5 | PASS |
| | | VN | 0 | 3.88 | 0.002220 | ± 2.5 | PASS |
| | | VN | 10 | 1.88 | 0.001076 | ± 2.5 | PASS |
| | | VN | 20 | -0.67 | -0.000383 | ± 2.5 | PASS |
| | | VN | 30 | -0.26 | -0.000149 | ± 2.5 | PASS |
| | | VN | 40 | 4.25 | 0.002432 | ± 2.5 | PASS |
| | | VN | 50 | -1.78 | -0.001019 | ± 2.5 | PASS |

## Channel Bandwidth: 20 MHz

| Channel Bandwidth: 20 MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 0.05 | 0.000029 | ± 2.5 | PASS |
| | | VN | TN | 3.5 | 0.002035 | ± 2.5 | PASS |
| | | VH | TN | 0 | 0.000000 | ± 2.5 | PASS |
| | MCH | VL | TN | -1.25 | -0.000722 | ± 2.5 | PASS |
| | | VN | TN | 1.31 | 0.000756 | ± 2.5 | PASS |
| | | VH | TN | 2.4 | 0.001385 | ± 2.5 | PASS |
| | HCH | VL | TN | -1.23 | -0.000705 | ± 2.5 | PASS |
| | | VN | TN | 4.94 | 0.002831 | ± 2.5 | PASS |
| | | VH | TN | 3.75 | 0.002149 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | -1.83 | -0.001064 | ± 2.5 | PASS |
| | | VN | TN | -1.57 | -0.000913 | ± 2.5 | PASS |
| | | VH | TN | 1.27 | 0.000738 | ± 2.5 | PASS |
| | MCH | VL | TN | 1.43 | 0.000825 | ± 2.5 | PASS |
| | | VN | TN | -0.73 | -0.000421 | ± 2.5 | PASS |
| | | VH | TN | -0.8 | -0.000462 | ± 2.5 | PASS |
| | HCH | VL | TN | 3.81 | 0.002183 | ± 2.5 | PASS |
| | | VN | TN | -0.36 | -0.000206 | ± 2.5 | PASS |
| | | VH | TN | -1.86 | -0.001066 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 4.73 | 0.002750 | ± 2.5 | PASS |
| | | VN | -20 | -0.46 | -0.000267 | ± 2.5 | PASS |
| | | VN | -10 | 4.71 | 0.002738 | ± 2.5 | PASS |
| | | VN | 0 | 0.81 | 0.000471 | ± 2.5 | PASS |
| | | VN | 10 | -0.82 | -0.000477 | ± 2.5 | PASS |
| | | VN | 20 | 1.96 | 0.001140 | ± 2.5 | PASS |
| | | VN | 30 | -0.56 | -0.000326 | ± 2.5 | PASS |
| | | VN | 40 | 4.27 | 0.002483 | ± 2.5 | PASS |
| | | VN | 50 | 4.07 | 0.002366 | ± 2.5 | PASS |
| | MCH | VN | -30 | -0.3 | -0.000173 | ± 2.5 | PASS |
| | | VN | -20 | 0.61 | 0.000352 | ± 2.5 | PASS |
| | | VN | -10 | 1.44 | 0.000831 | ± 2.5 | PASS |
| | | VN | 0 | 2.88 | 0.001662 | ± 2.5 | PASS |
| | | VN | 10 | 1.46 | 0.000843 | ± 2.5 | PASS |
| | | VN | 20 | 4.4 | 0.002540 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 30 | 2 | 0.001154 | ± 2.5 | PASS |
| | | VN | 40 | -1.89 | -0.001091 | ± 2.5 | PASS |
| | | VN | 50 | 1 | 0.000577 | ± 2.5 | PASS |
| | HCH | VN | -30 | -1.81 | -0.001037 | ± 2.5 | PASS |
| | | VN | -20 | 2.32 | 0.001330 | ± 2.5 | PASS |
| | | VN | -10 | 2.6 | 0.001490 | ± 2.5 | PASS |
| | | VN | 0 | 2.1 | 0.001203 | ± 2.5 | PASS |
| | | VN | 10 | 2.54 | 0.001456 | ± 2.5 | PASS |
| | | VN | 20 | 2.24 | 0.001284 | ± 2.5 | PASS |
| | | VN | 30 | 4.24 | 0.002430 | ± 2.5 | PASS |
| | | VN | 40 | -0.06 | -0.000034 | ± 2.5 | PASS |
| | | VN | 50 | 1.01 | 0.000579 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 0.68 | 0.000392 | ± 2.5 | PASS |
| | | VN | -20 | -0.14 | -0.000081 | ± 2.5 | PASS |
| | | VN | -10 | 2.83 | 0.001633 | ± 2.5 | PASS |
| | | VN | 0 | 4.54 | 0.002620 | ± 2.5 | PASS |
| | | VN | 10 | 1.89 | 0.001091 | ± 2.5 | PASS |
| | | VN | 20 | 0.32 | 0.000185 | ± 2.5 | PASS |
| | | VN | 30 | 0.82 | 0.000473 | ± 2.5 | PASS |
| | | VN | 40 | 3.54 | 0.002043 | ± 2.5 | PASS |
| | | VN | 50 | 2.32 | 0.001339 | ± 2.5 | PASS |
| | MCH | VN | -30 | 3.9 | 0.002235 | ± 2.5 | PASS |
| | | VN | -20 | -1.94 | -0.001112 | ± 2.5 | PASS |
| | | VN | -10 | 2.55 | 0.001461 | ± 2.5 | PASS |
| | | VN | 0 | -0.04 | -0.000023 | ± 2.5 | PASS |
| | | VN | 10 | 1.59 | 0.000911 | ± 2.5 | PASS |
| | | VN | 20 | 3.44 | 0.001971 | ± 2.5 | PASS |
| | | VN | 30 | 0.38 | 0.000218 | ± 2.5 | PASS |
| | | VN | 40 | 1.65 | 0.000946 | ± 2.5 | PASS |
| | | VN | 50 | -1.8 | -0.001032 | ± 2.5 | PASS |
| | HCH | VN | -30 | -0.66 | -0.000378 | ± 2.5 | PASS |
| | | VN | -20 | -0.41 | -0.000235 | ± 2.5 | PASS |
| | | VN | -10 | 0.34 | 0.000195 | ± 2.5 | PASS |
| | | VN | 0 | -0.84 | -0.000481 | ± 2.5 | PASS |
| | | VN | 10 | 1.66 | 0.000951 | ± 2.5 | PASS |
| | | VN | 20 | -1 | -0.000573 | ± 2.5 | PASS |
| | | VN | 30 | 2.22 | 0.001272 | ± 2.5 | PASS |
| | | VN | 40 | 0.95 | 0.000544 | ± 2.5 | PASS |
| | | VN | 50 | 1.61 | 0.000923 | ± 2.5 | PASS |