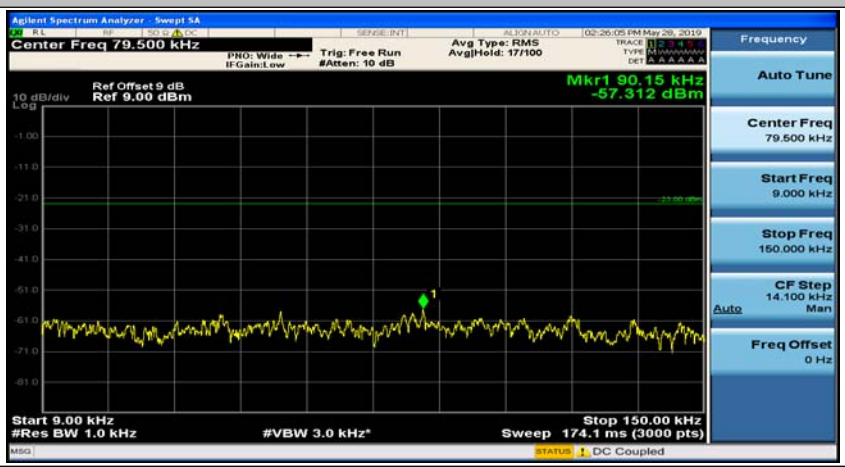
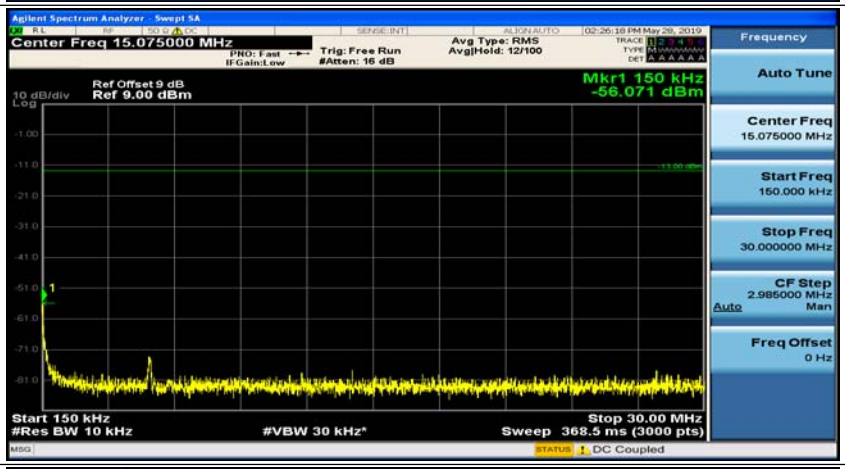
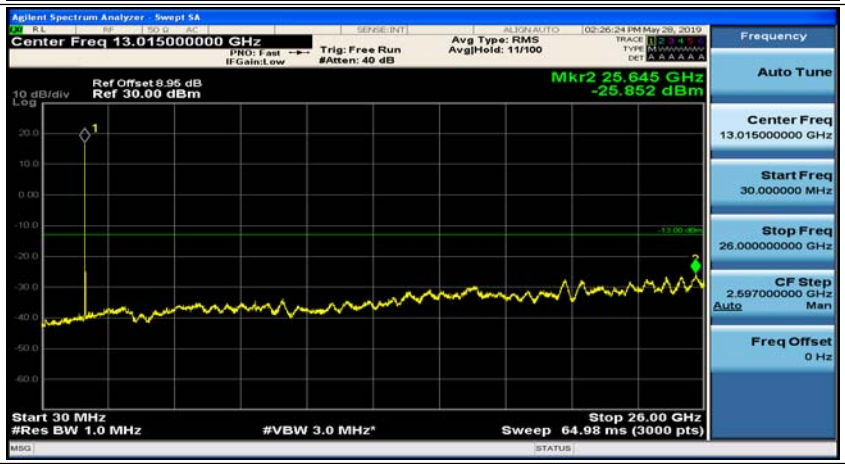
Channel Bandwidth: 15 MHz

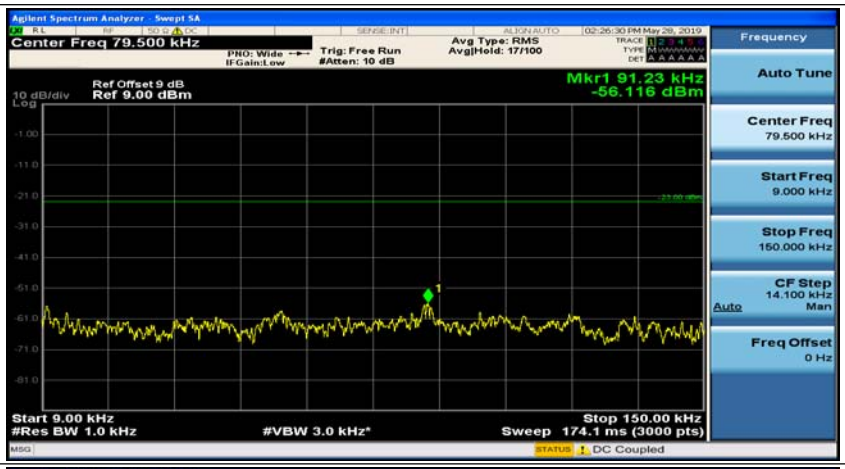
(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#0

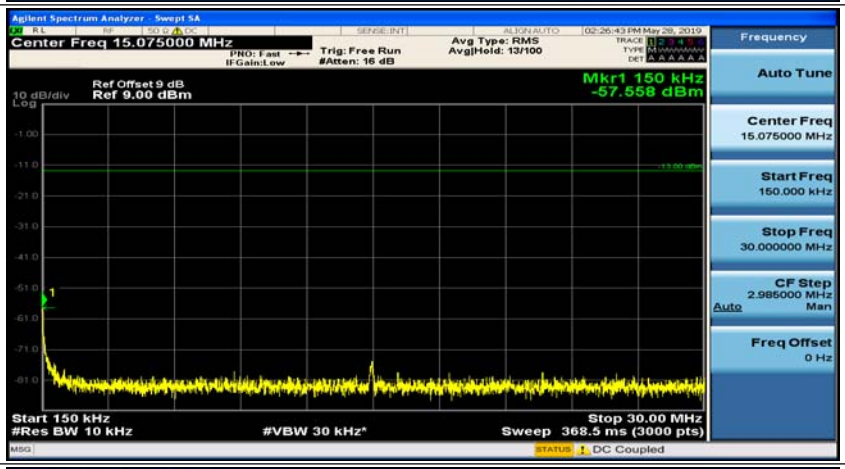


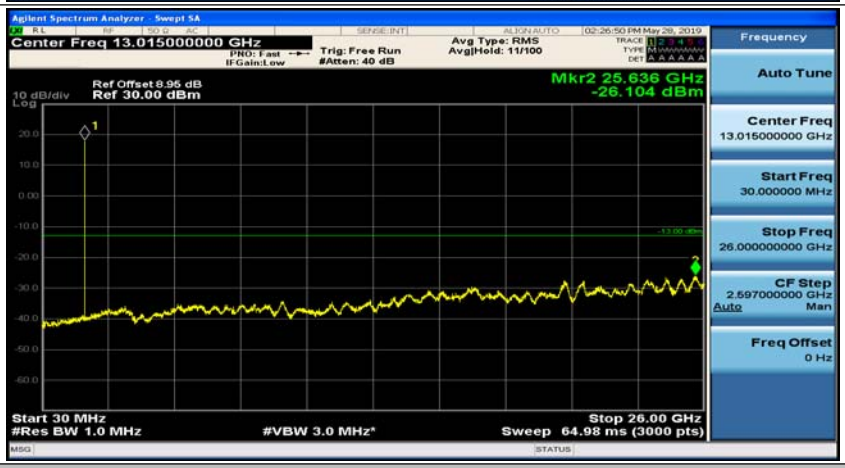




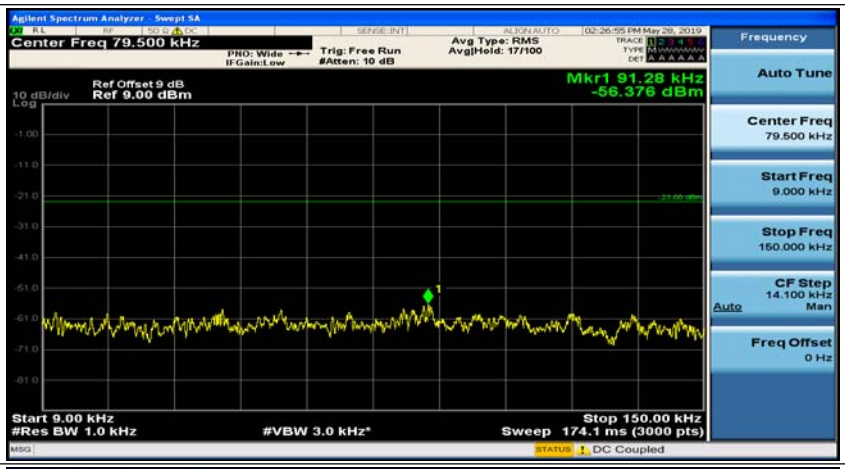
(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#37

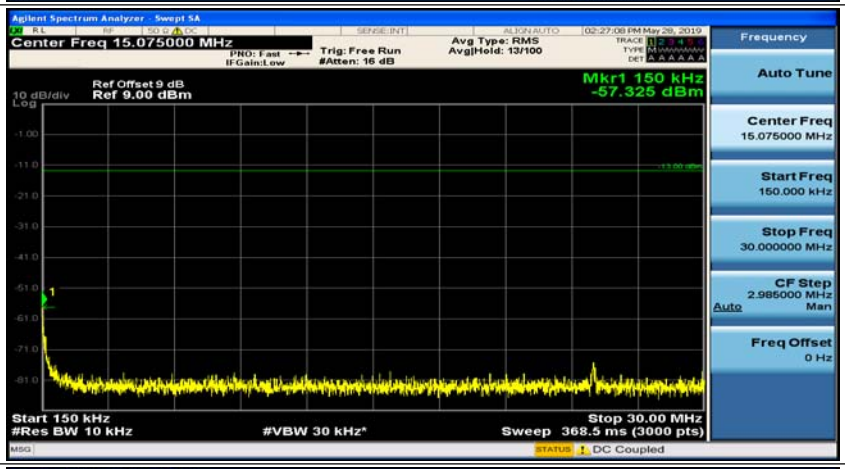


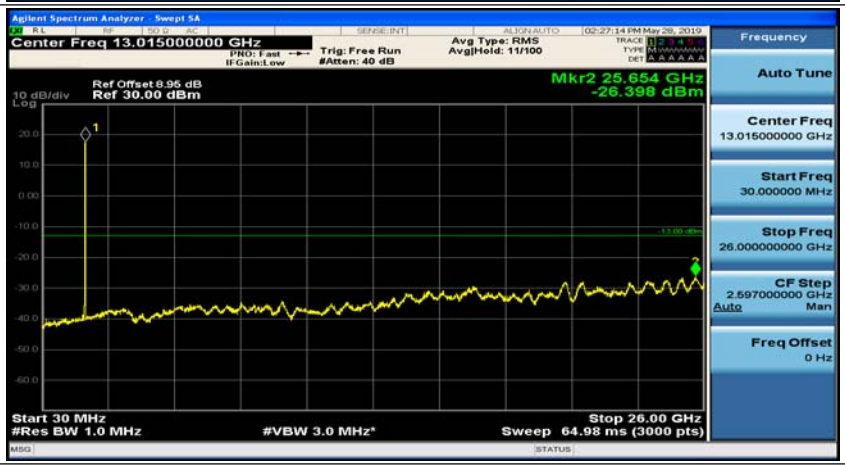




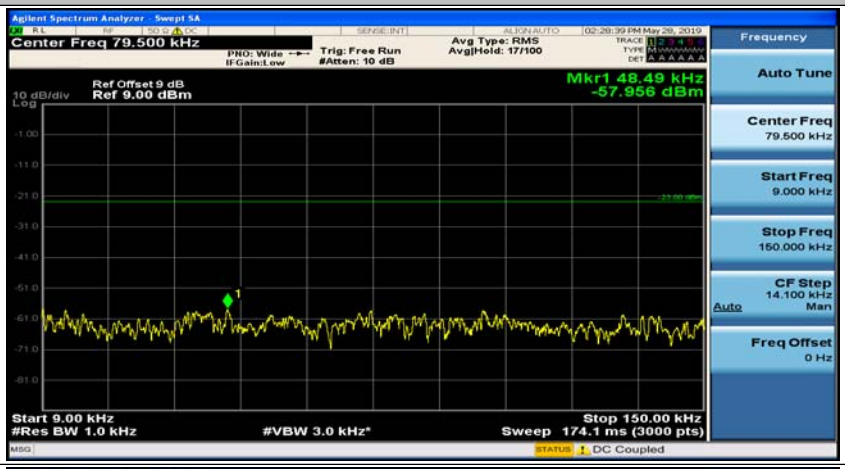
(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#74

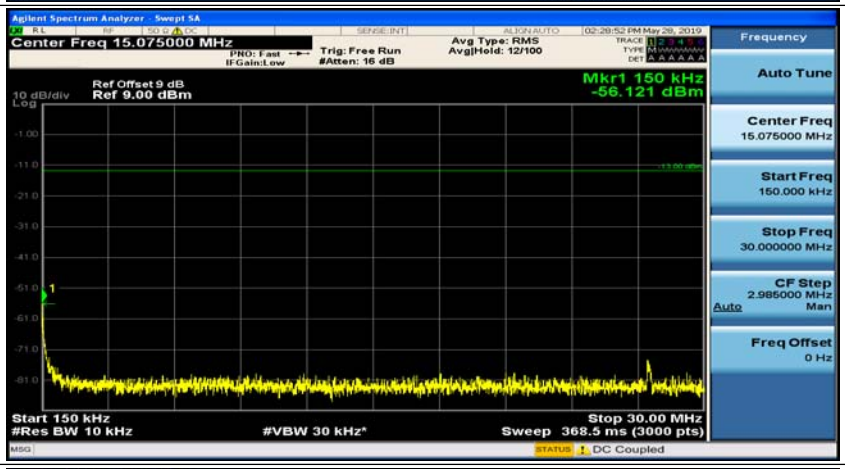

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 91.28 kHz
-56.376 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
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

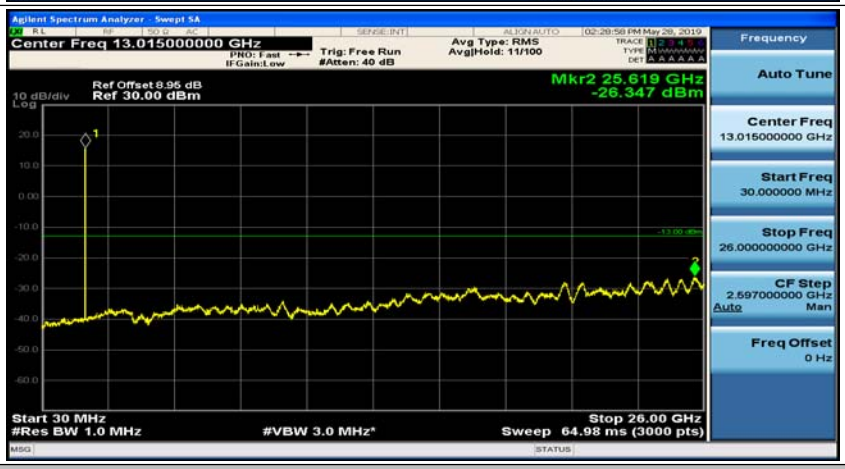

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 13/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-57.325 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
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
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.654 GHz
-26.398 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

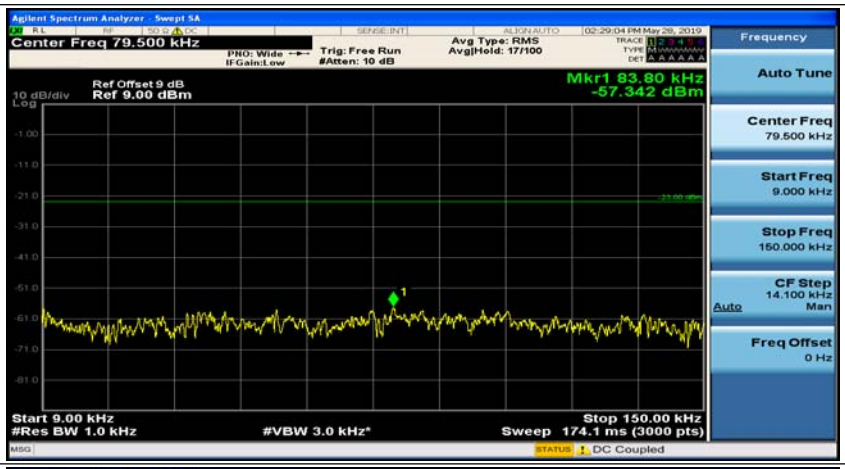
(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0

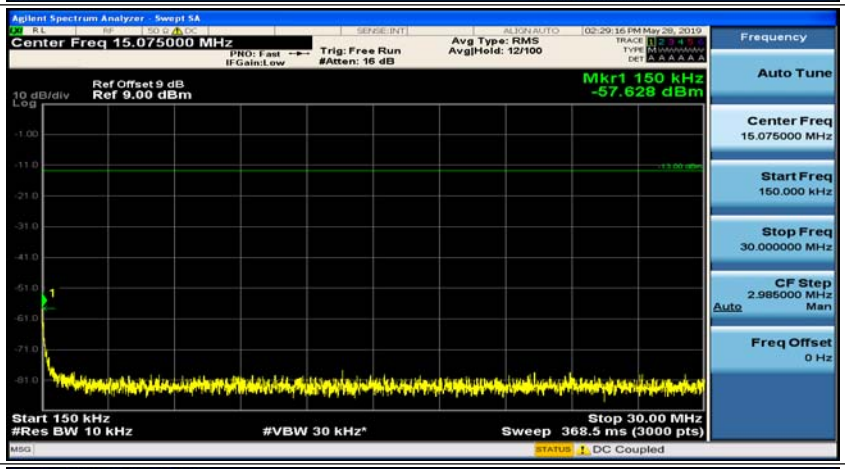


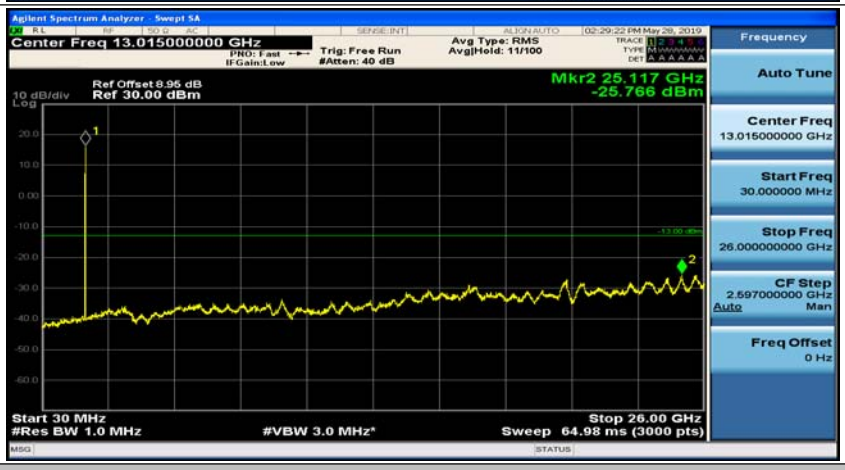




(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#37

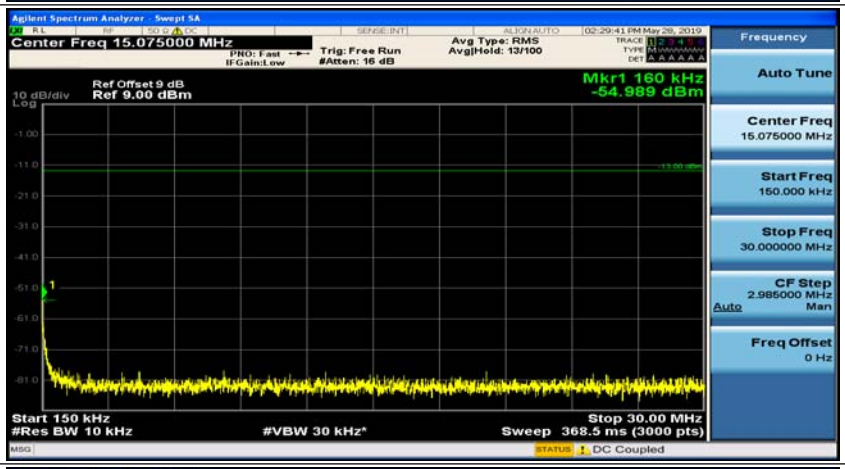


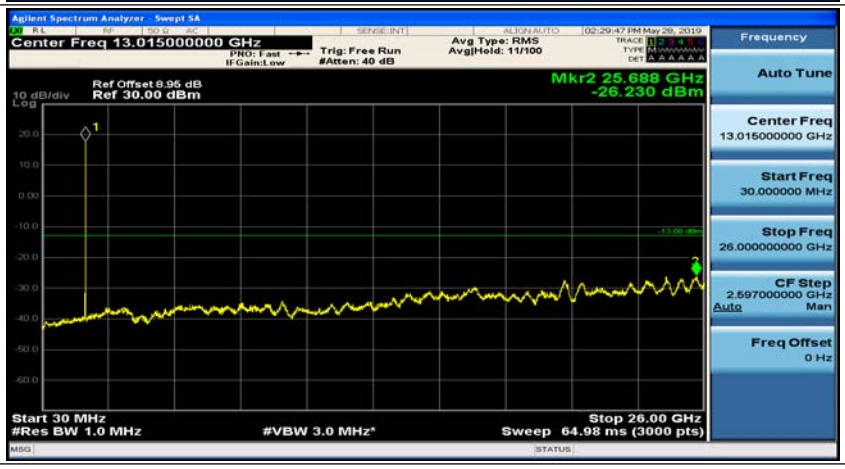




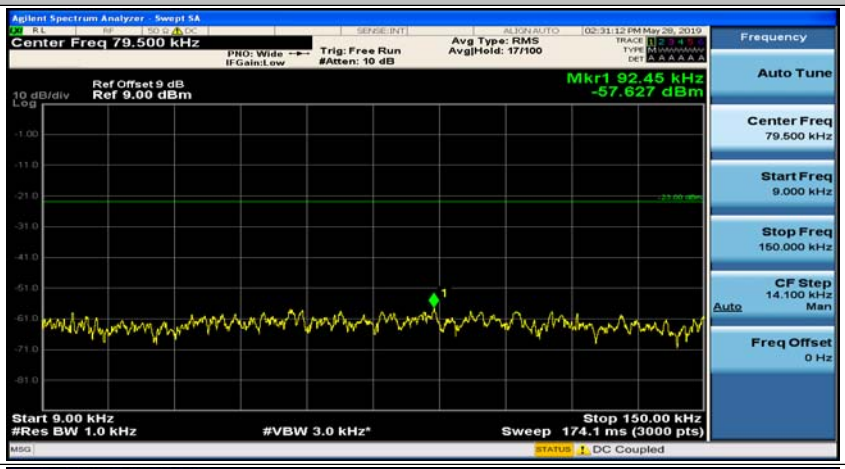
(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#74

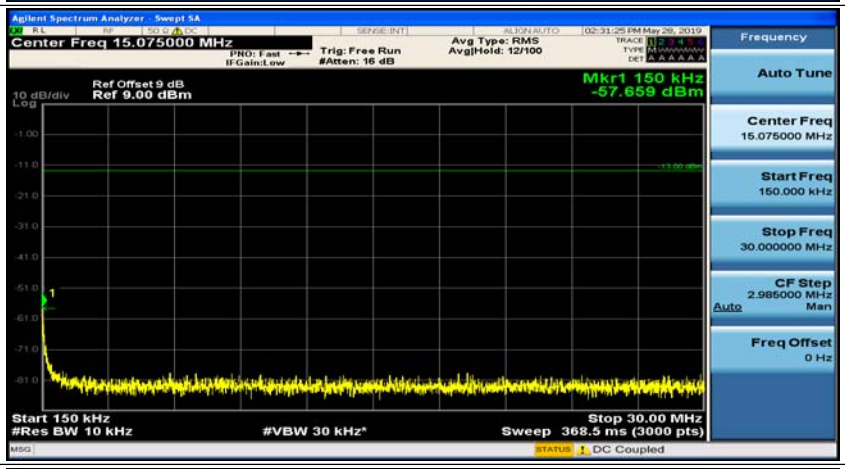
Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 18/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 48.07 kHz
-58.090 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
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

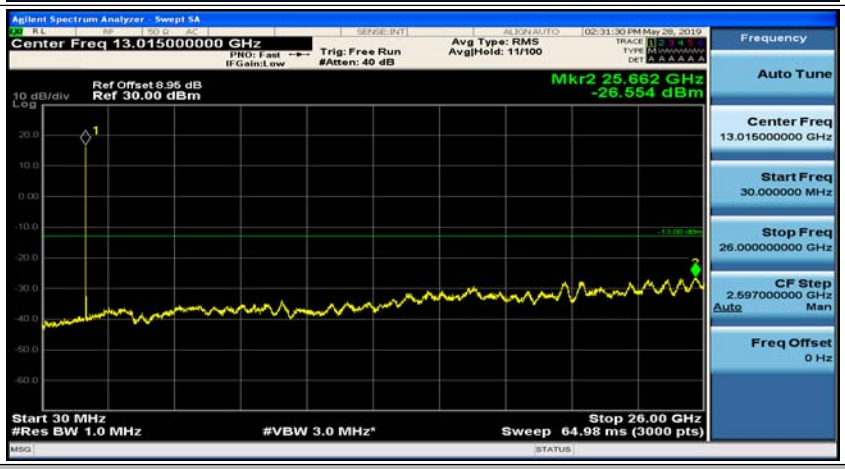

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 13/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 160 kHz
-54.989 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
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
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.688 GHz
-26.230 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

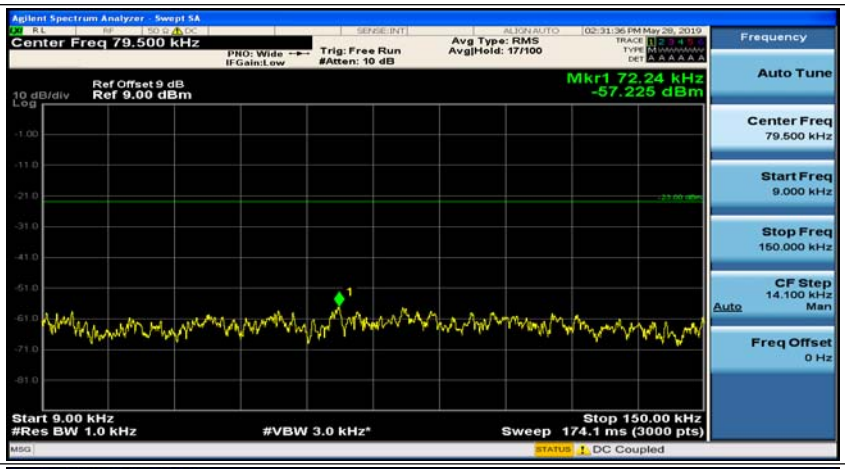
(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

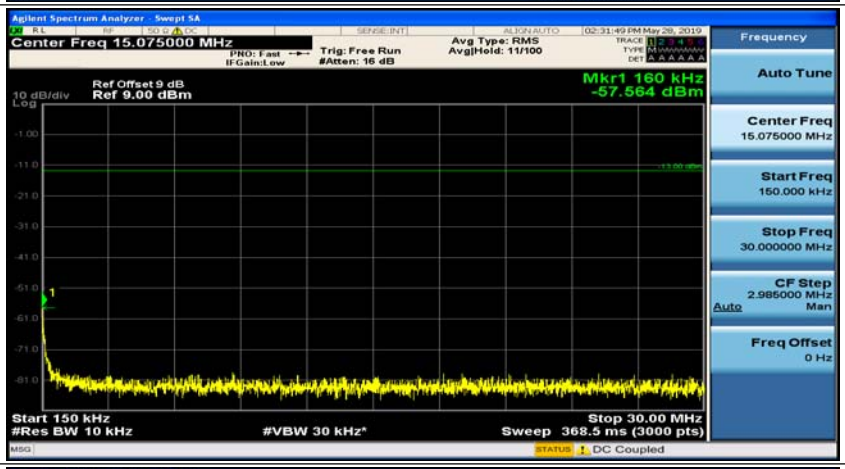




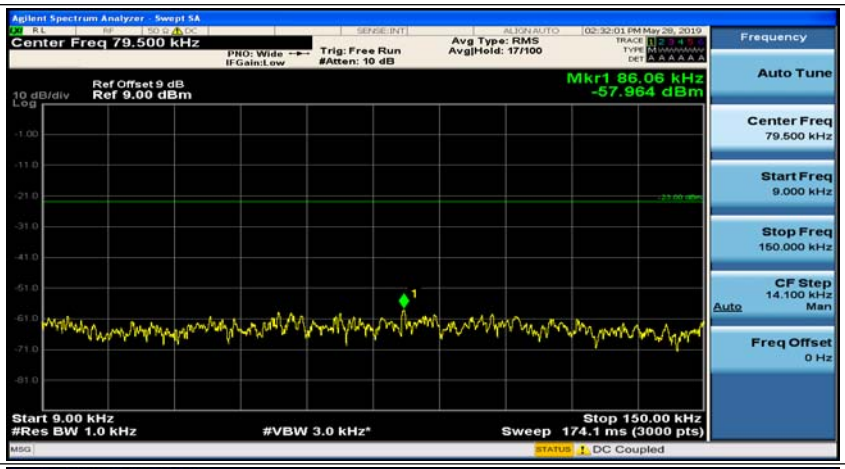


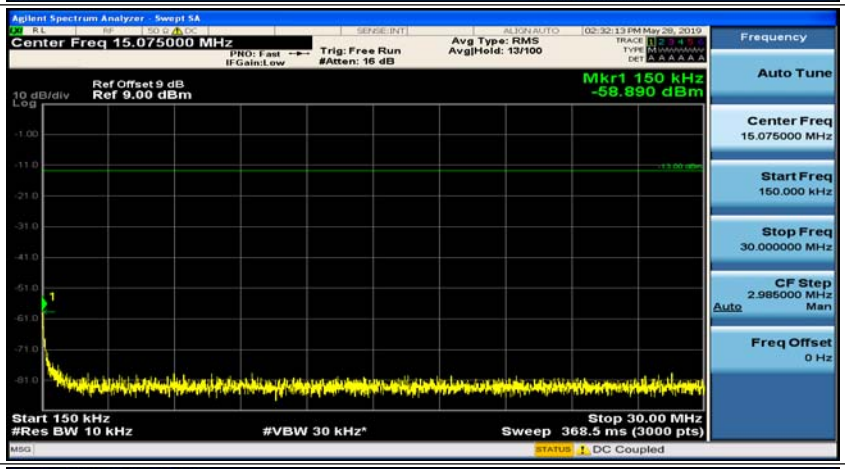
(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#37

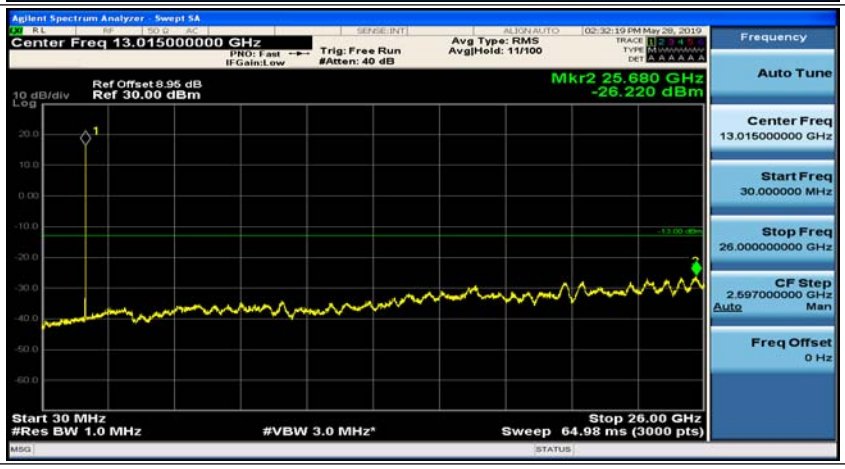




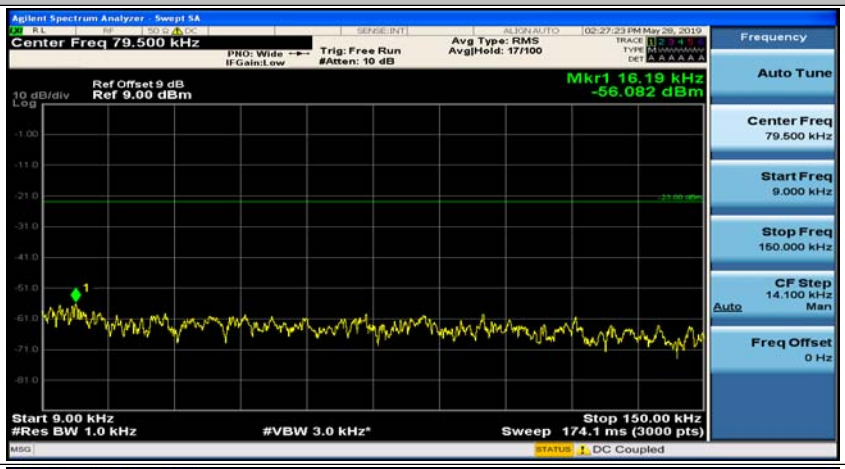
(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#74

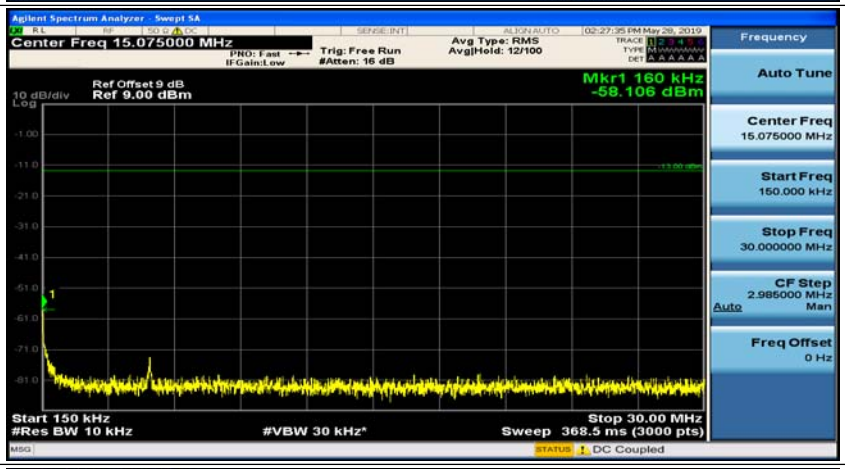

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 86.06 kHz
-57.964 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
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

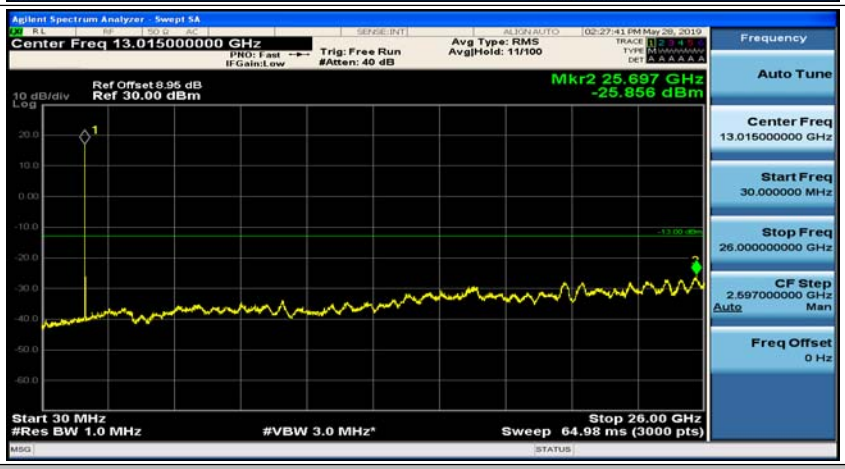

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 13/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-58.890 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
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
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.680 GHz
-26.220 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

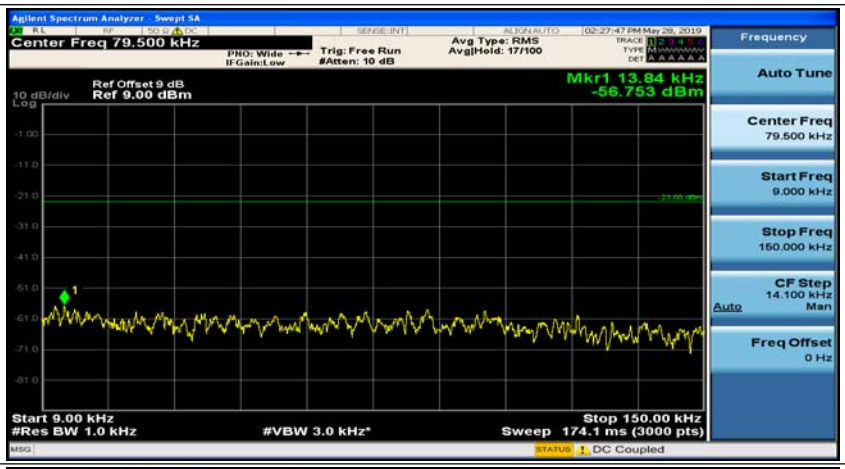
(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0

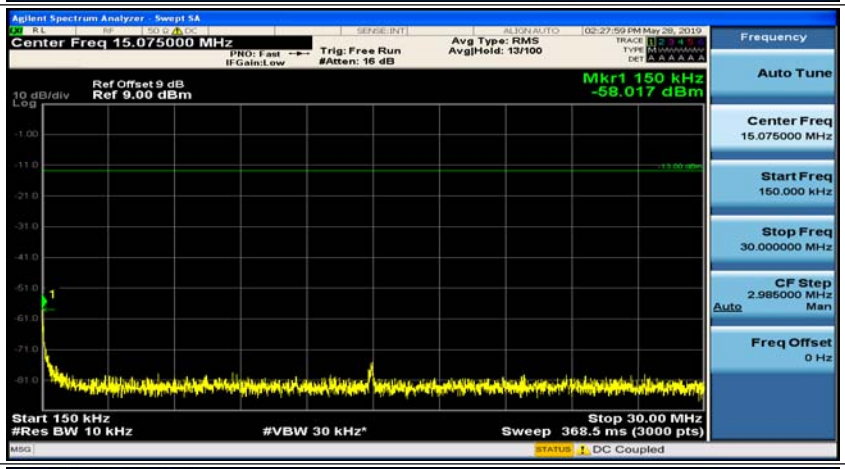


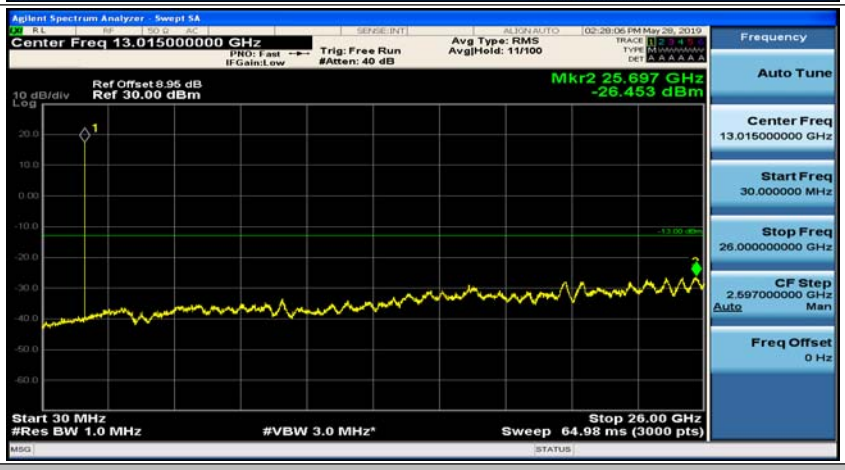




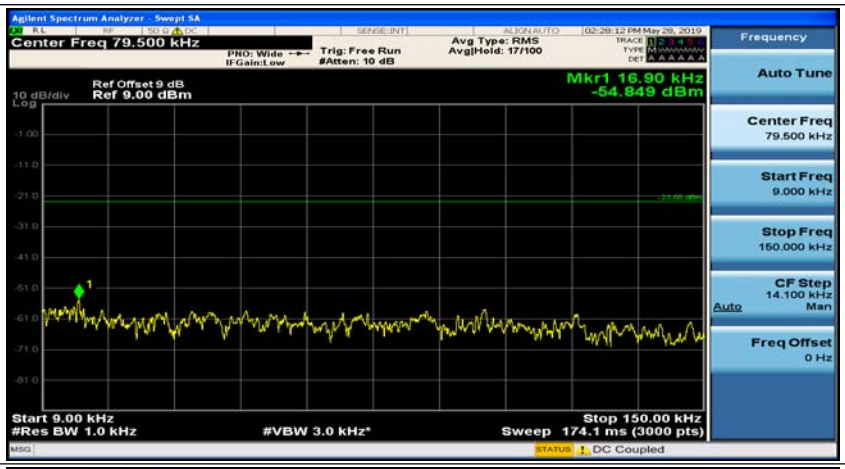
(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37

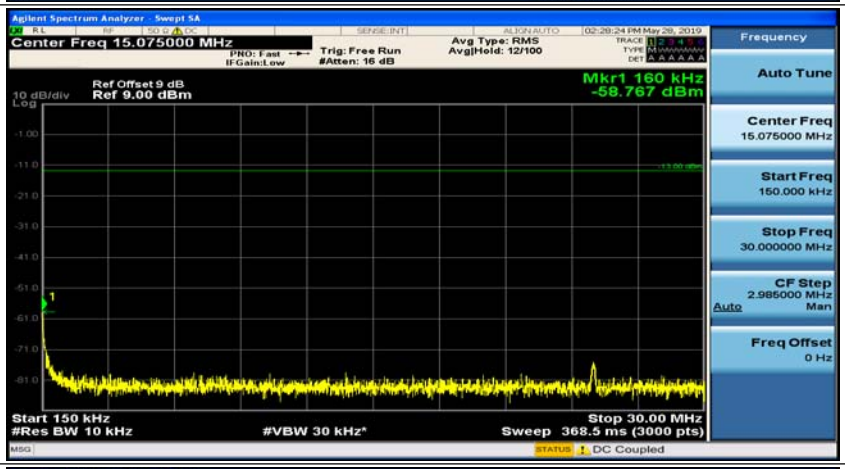


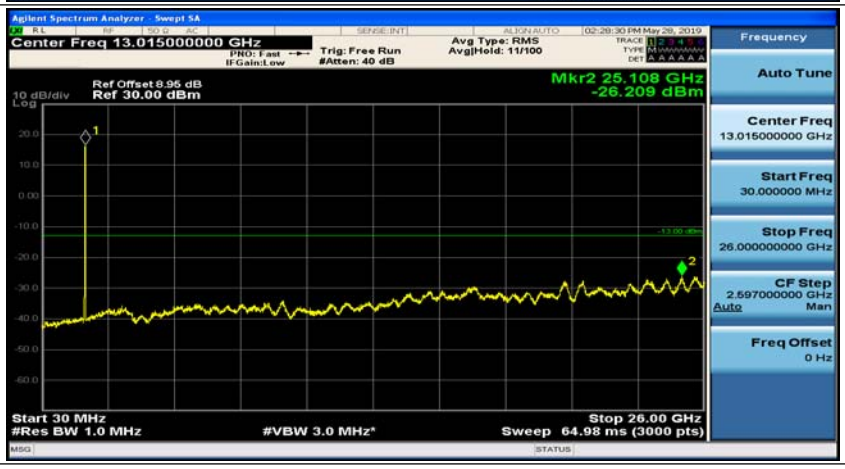




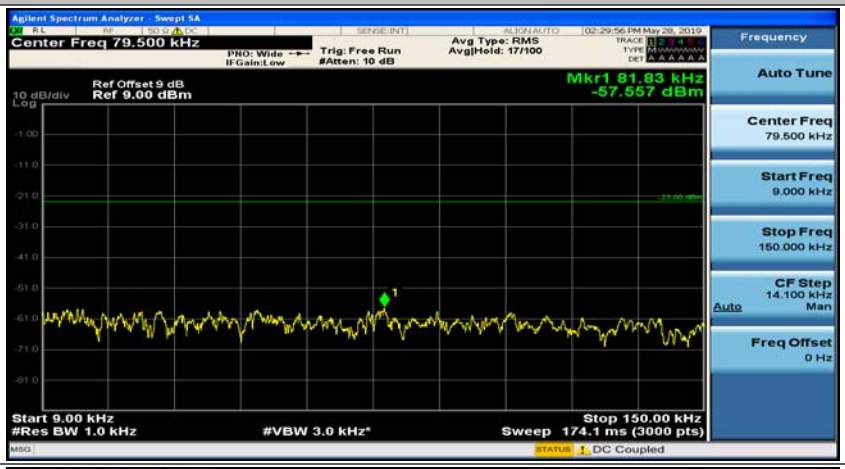
(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#74

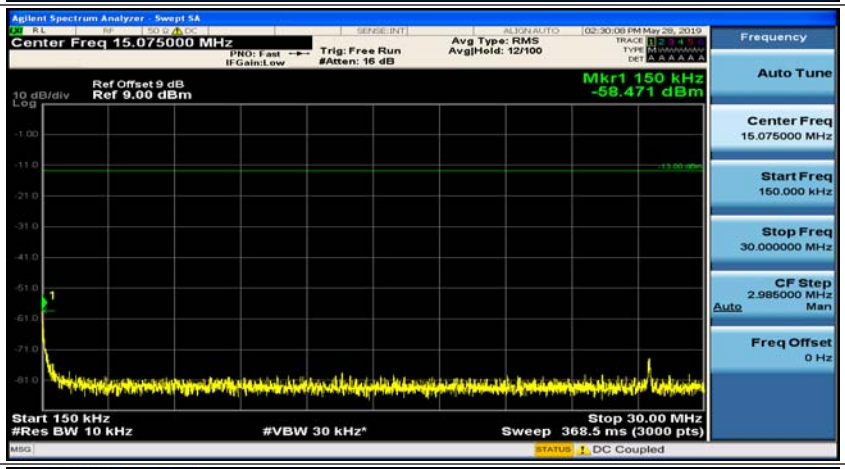

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 16.90 kHz
-54.849 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
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

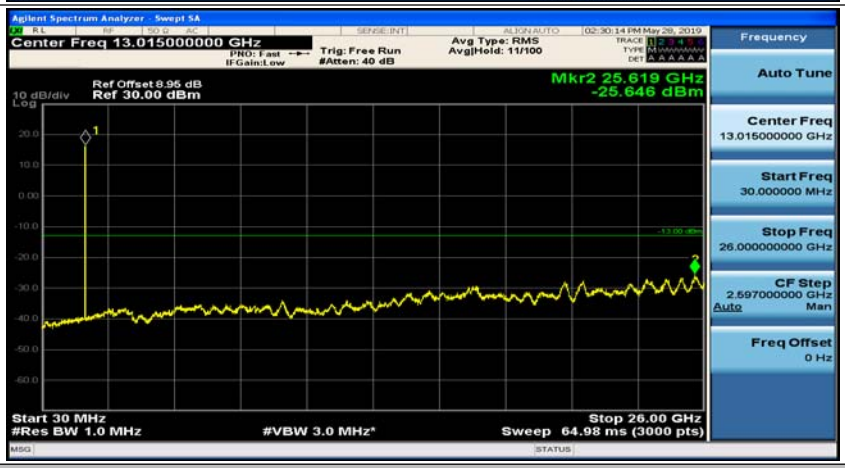

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 160 kHz
-58.767 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
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
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.108 GHz
-26.209 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

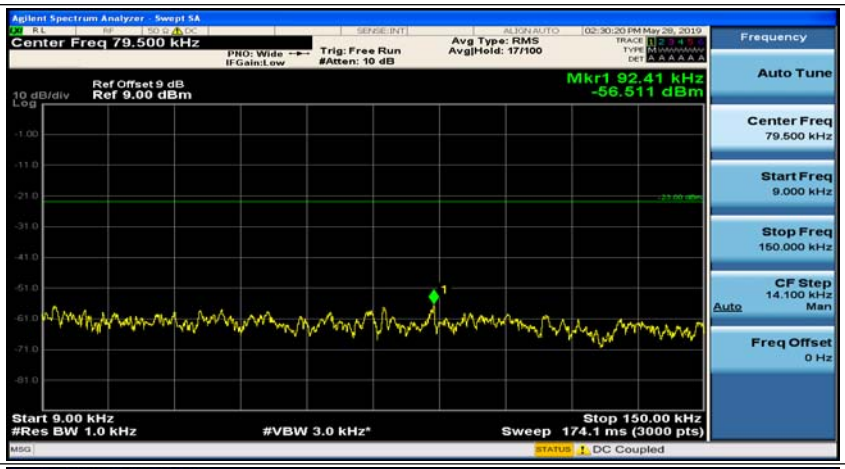
(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0

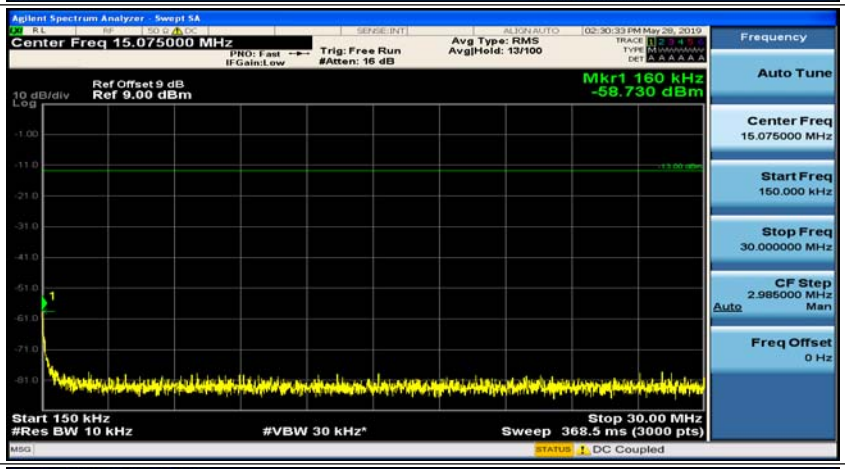


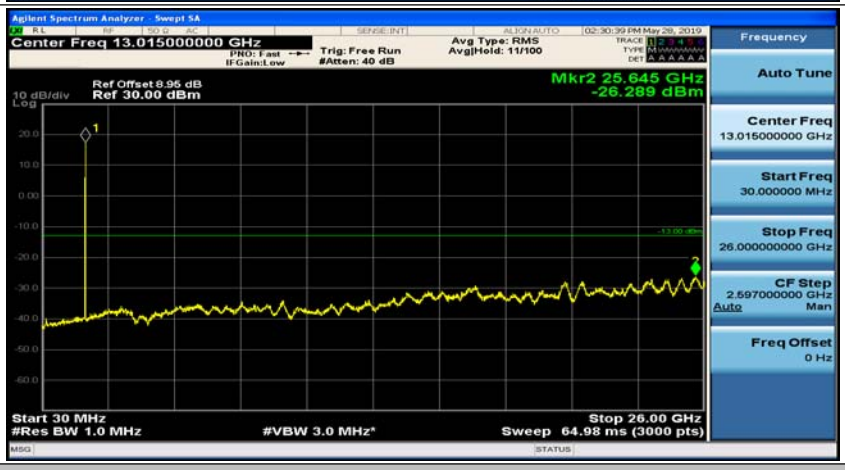




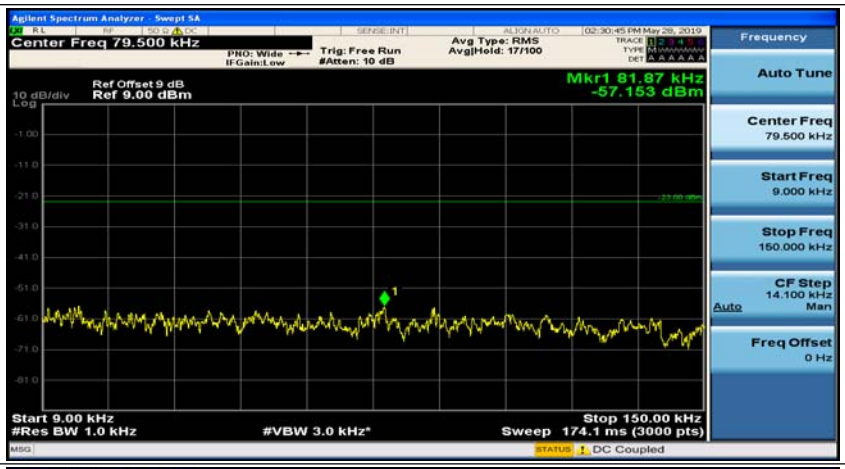
(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37

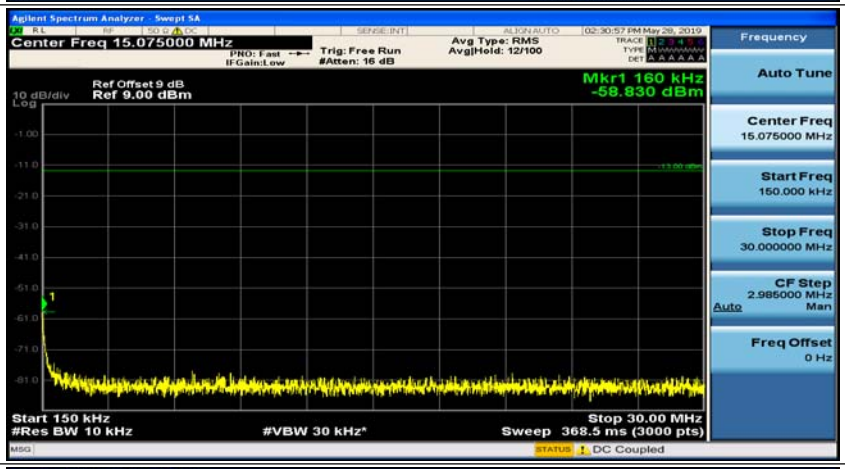






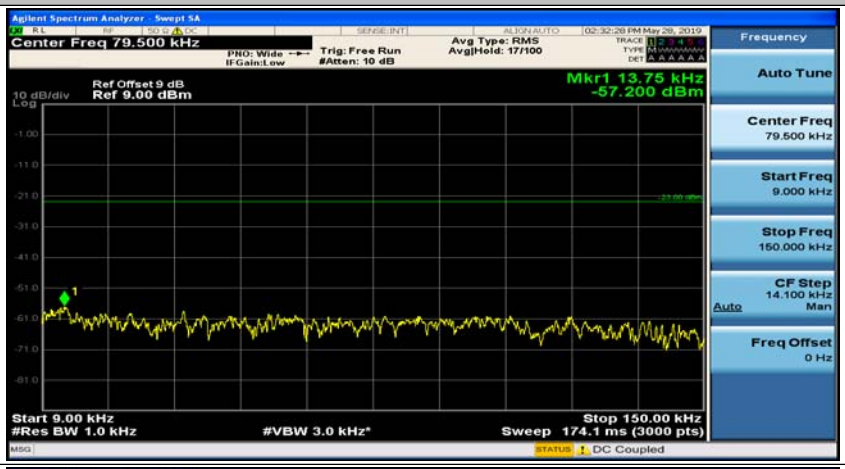
(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#74

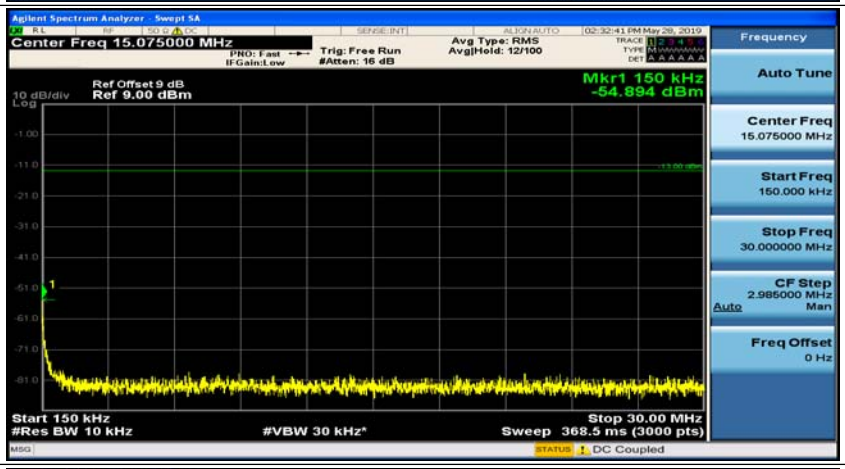

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 81.87 kHz
-57.153 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
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

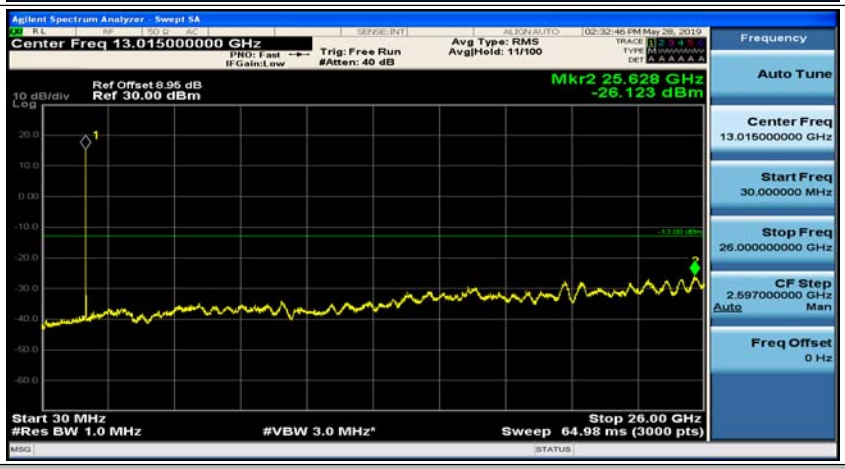

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 160 kHz
-58.830 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
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
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.636 GHz
-26.246 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

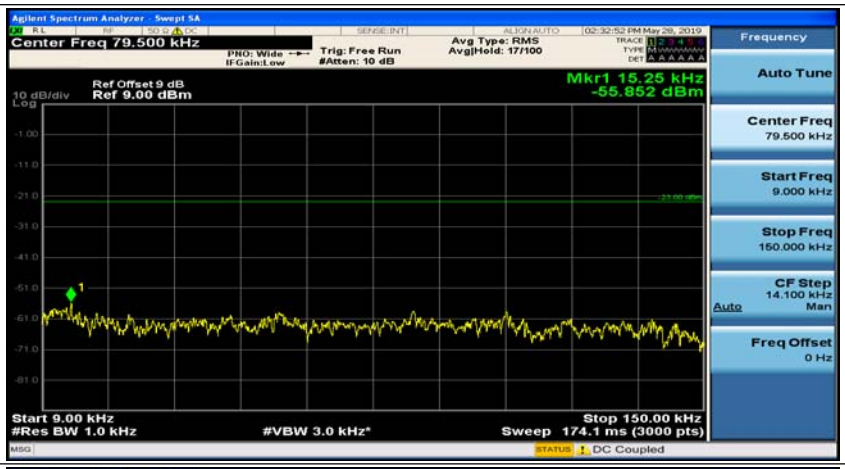
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

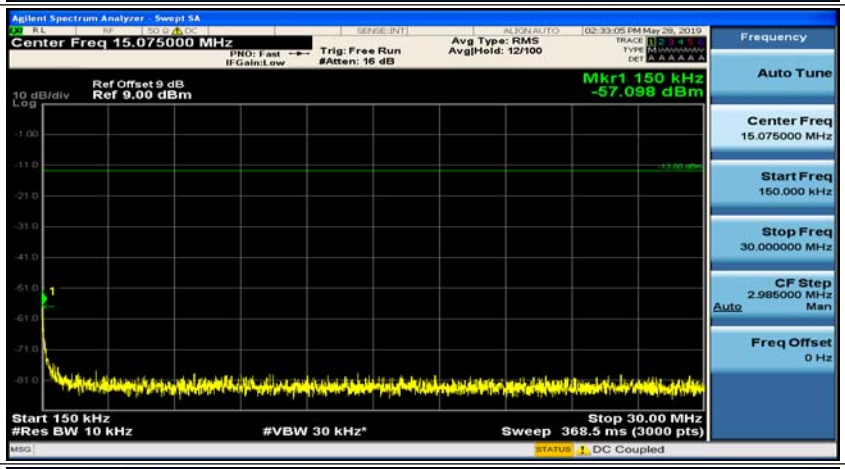




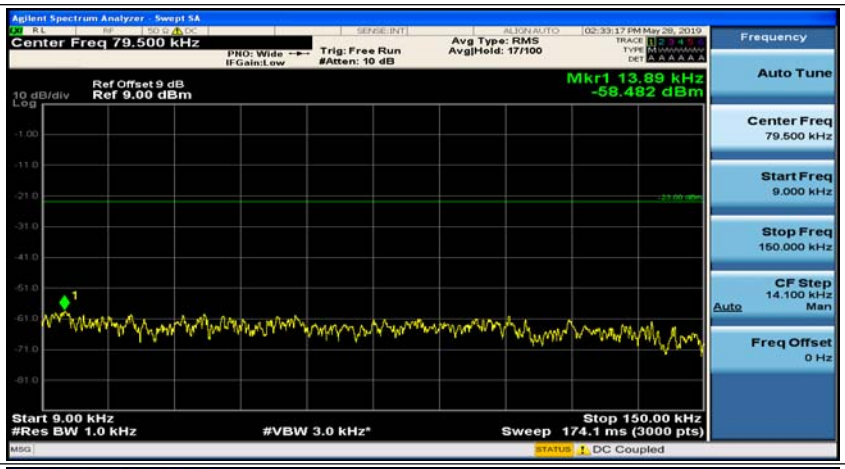


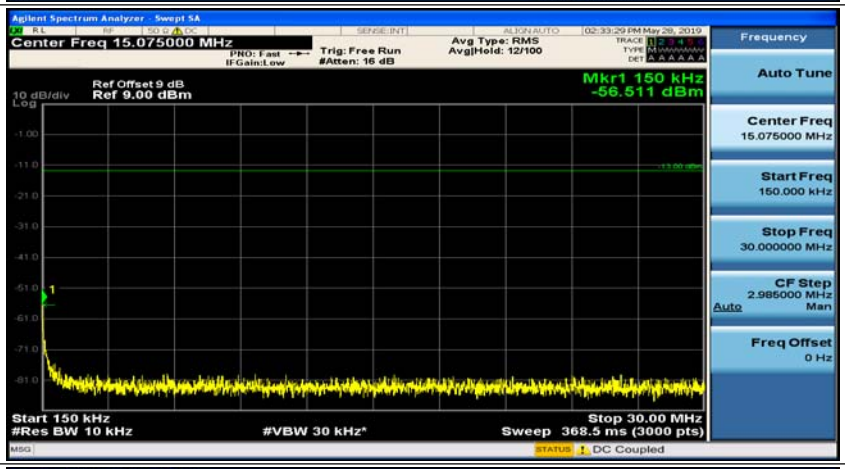
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37

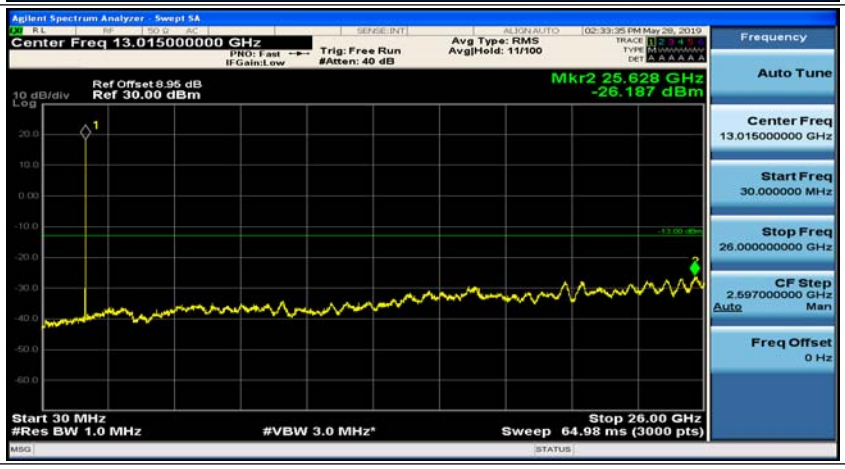




(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#74

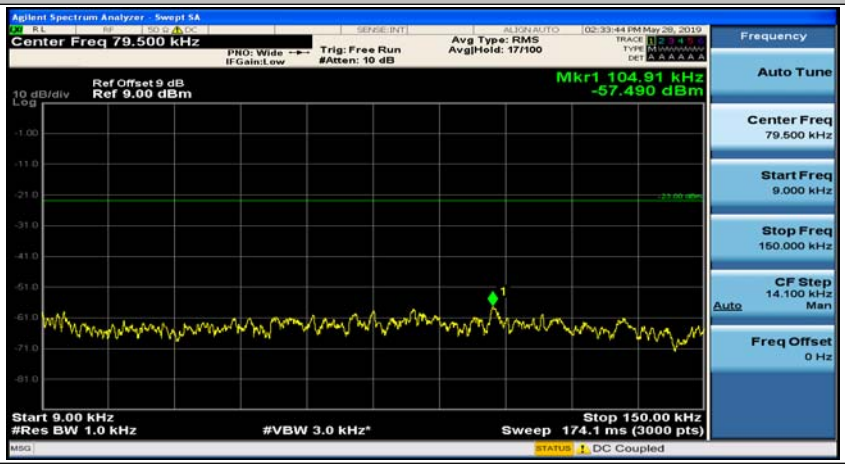

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 13.89 kHz
-58.482 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
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

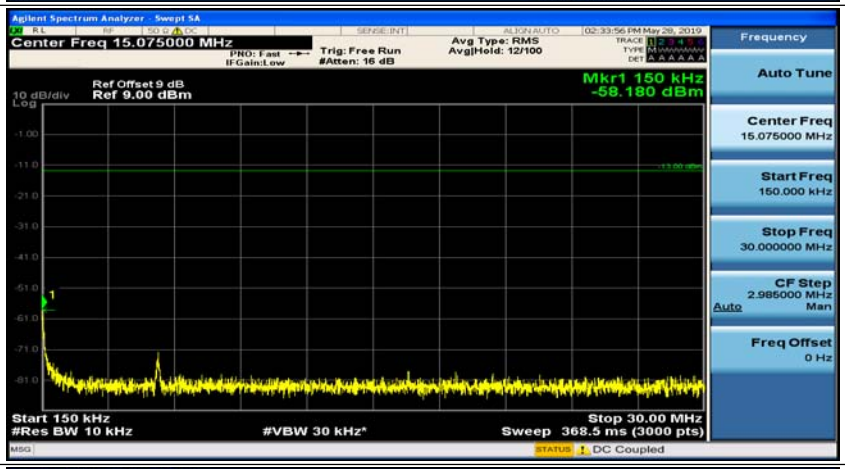

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-56.511 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
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

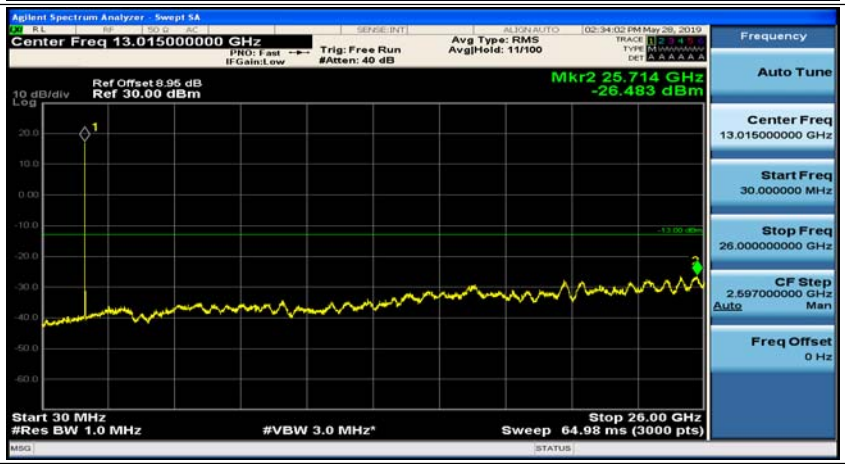

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.628 GHz
-26.187 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
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

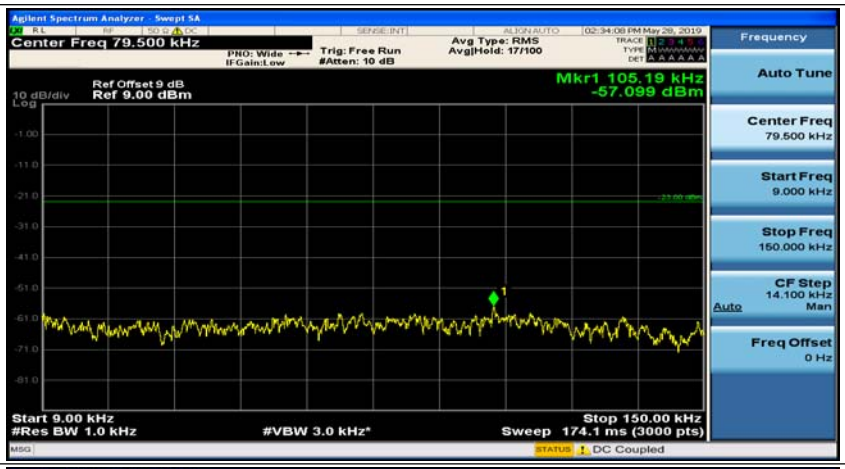
(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#0

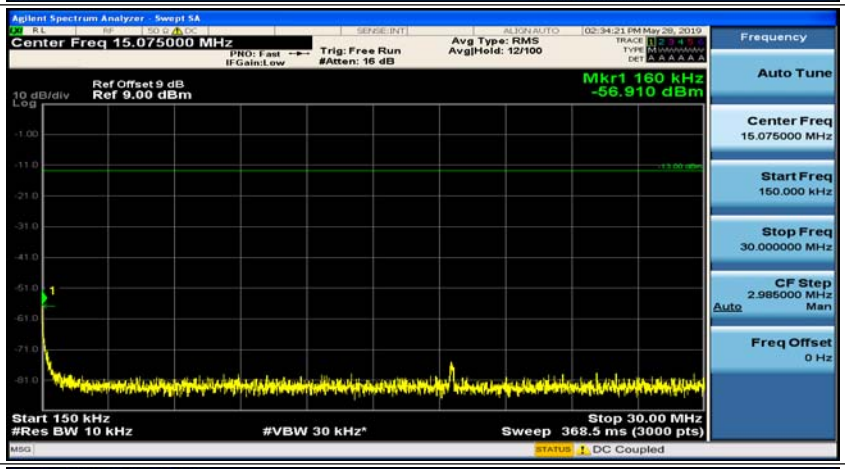


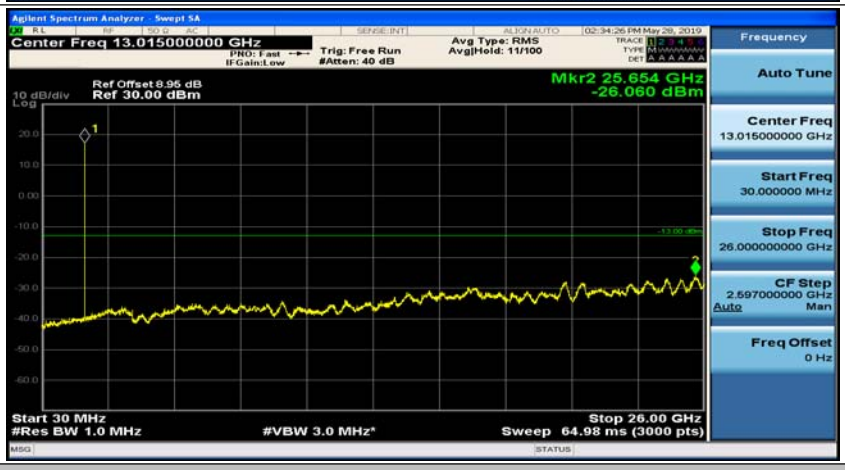




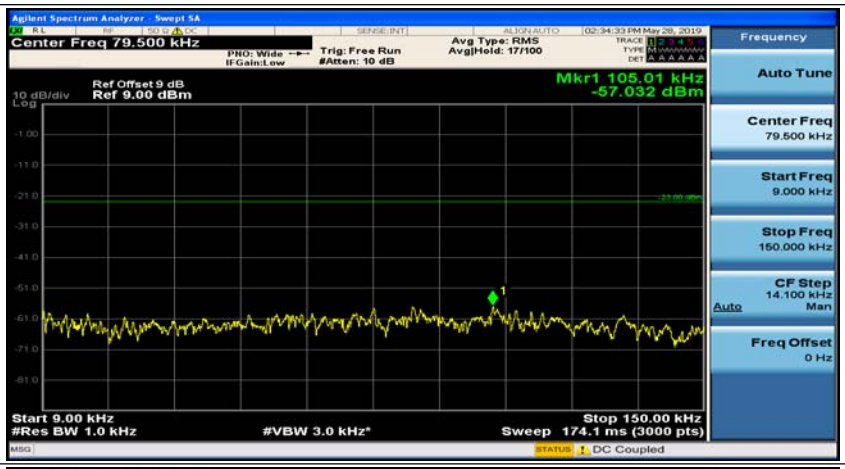
(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#49

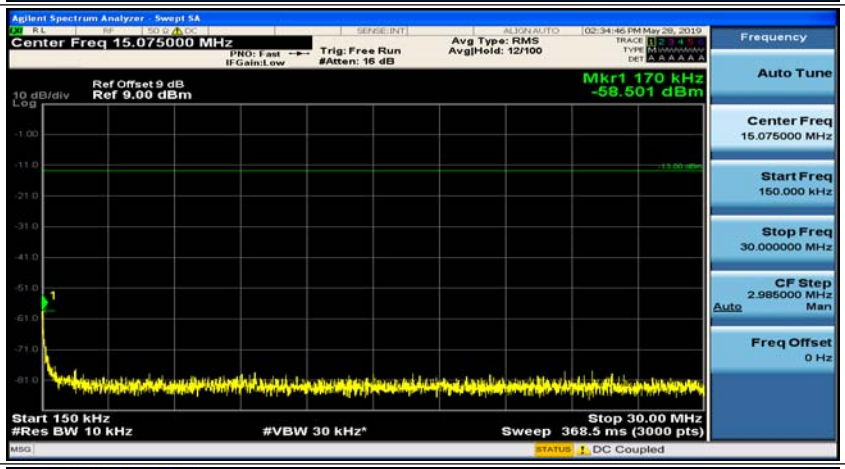


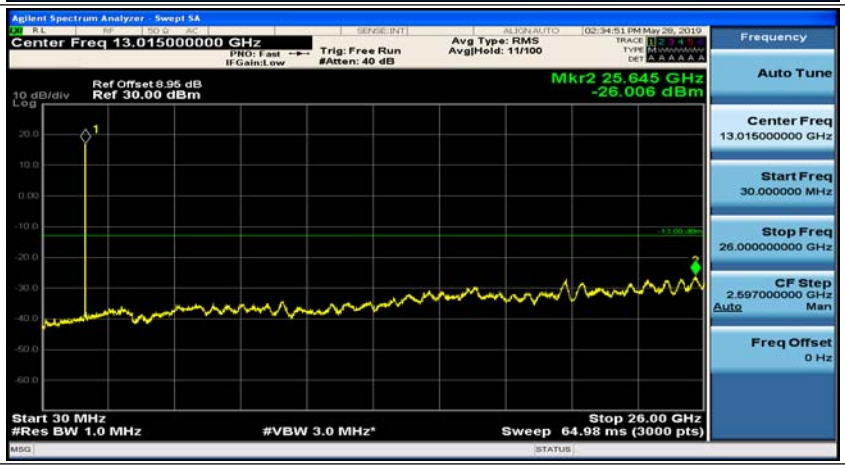




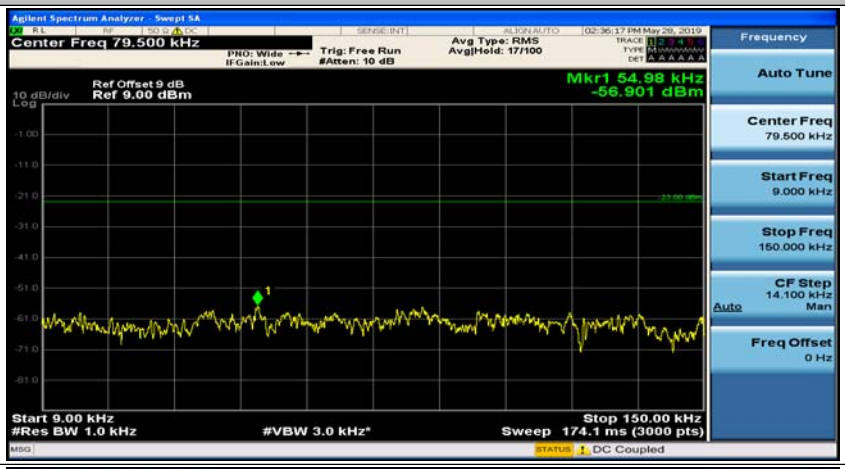
(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#99

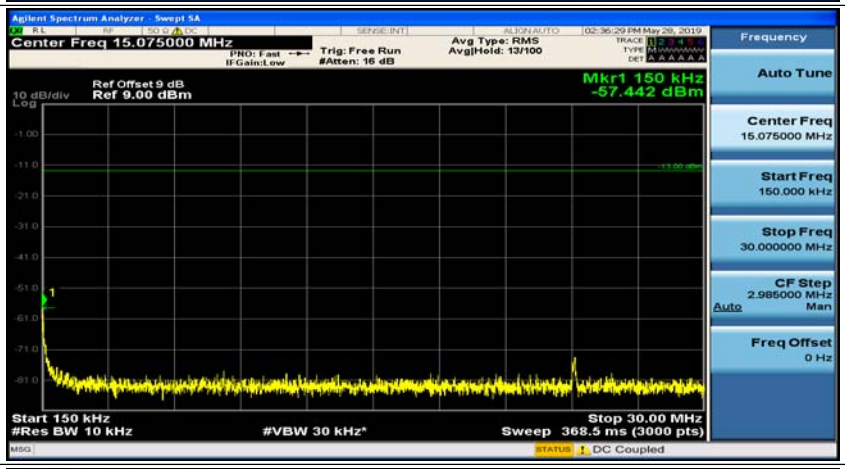

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 105.01 kHz
-57.032 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
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

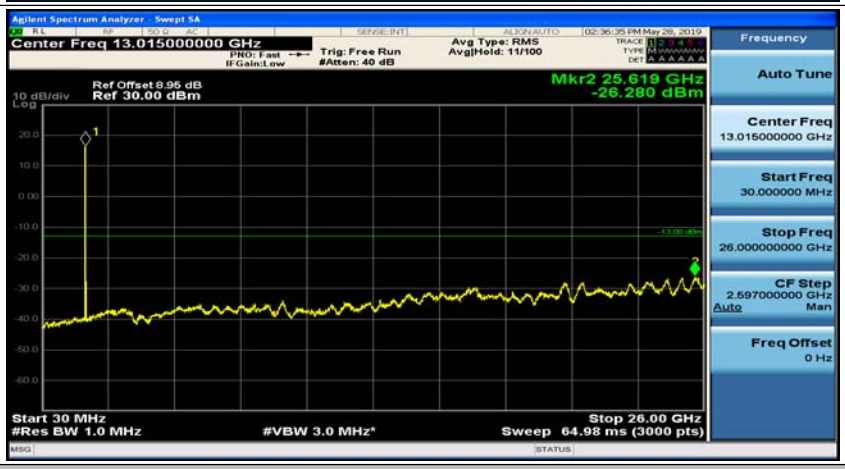

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 170 kHz
-58.501 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
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
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.645 GHz
-26.006 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

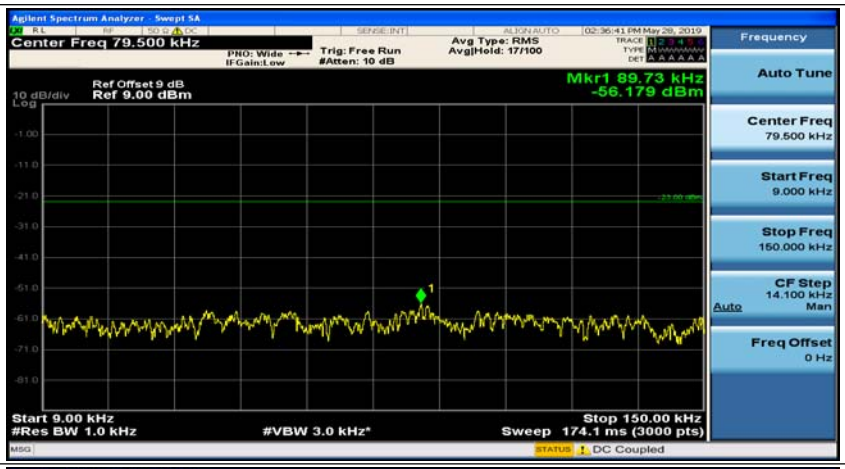
(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

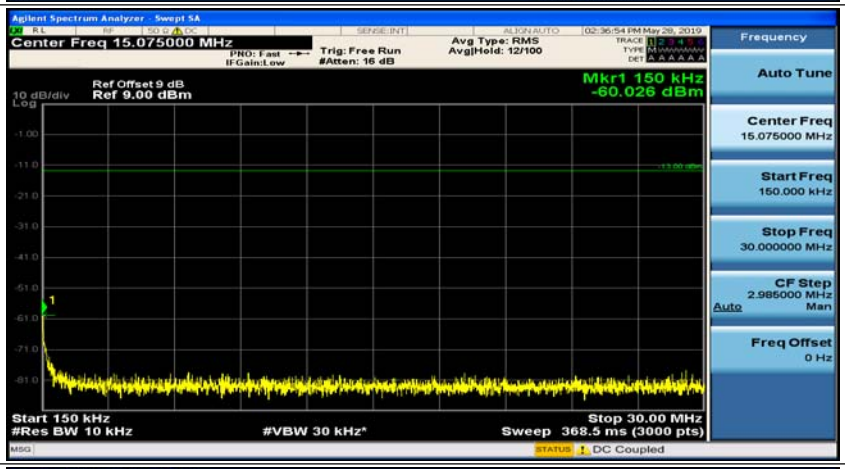




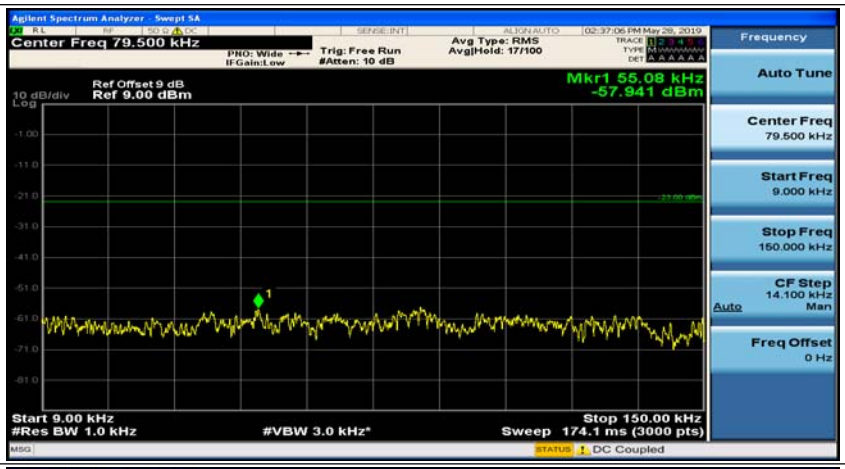


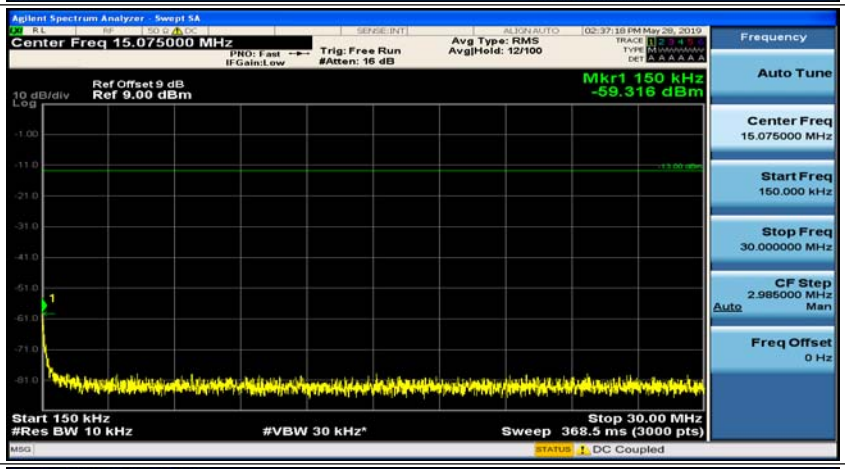
(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49

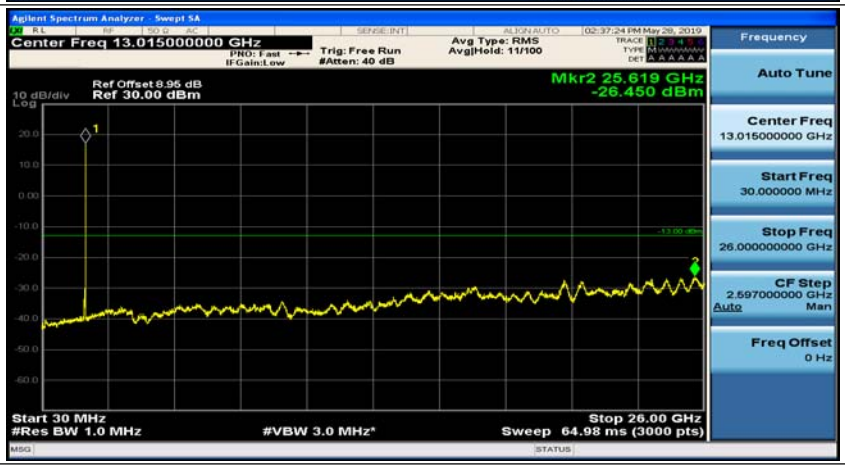




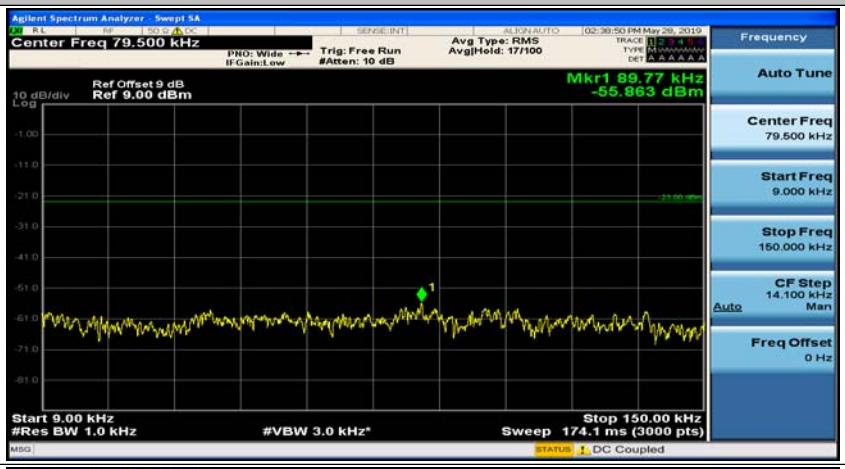
(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#99

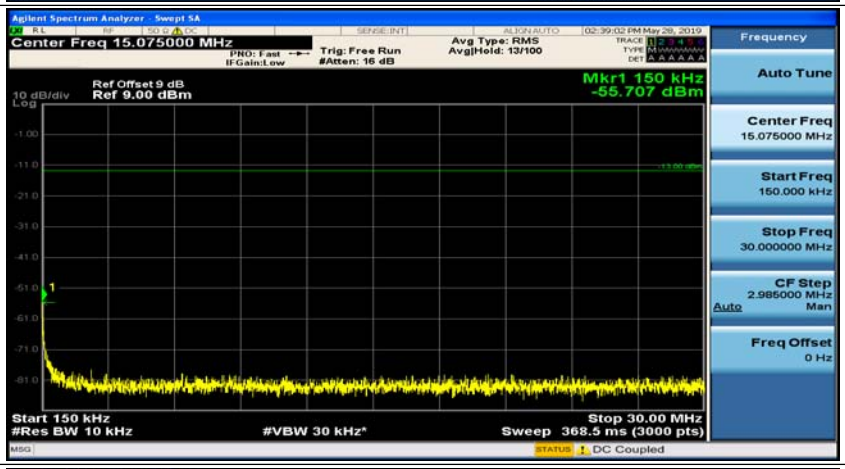

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 55.08 kHz
-57.941 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
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

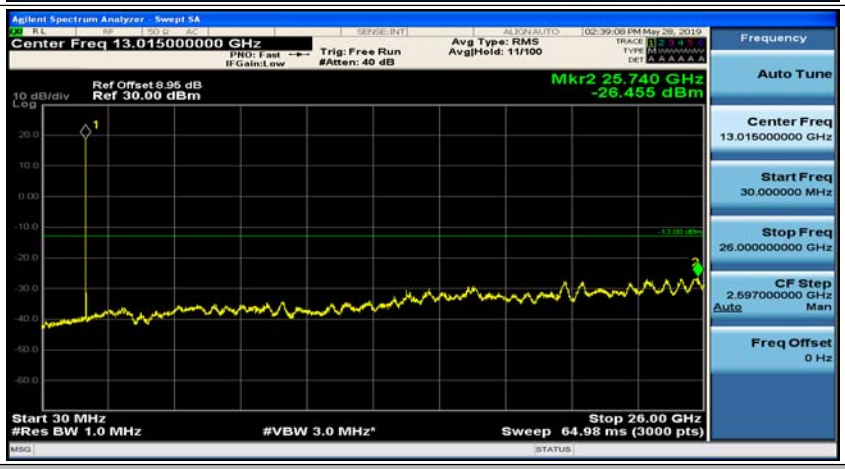

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-59.316 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
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
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.619 GHz
-26.450 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

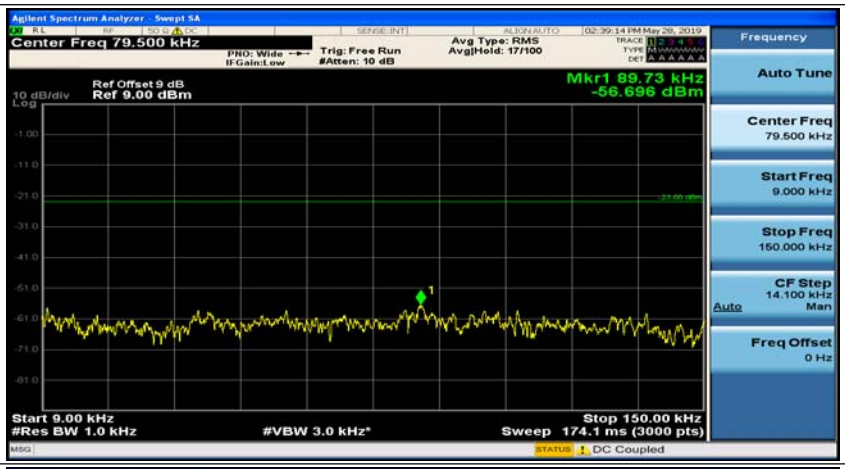
(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

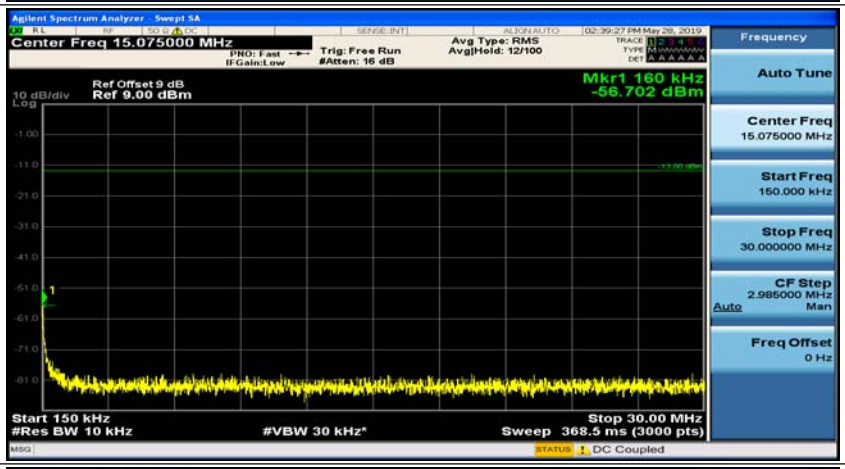


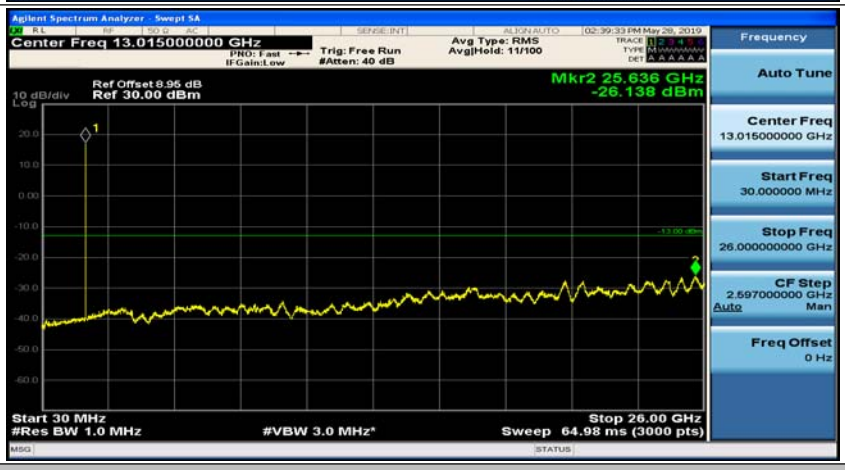




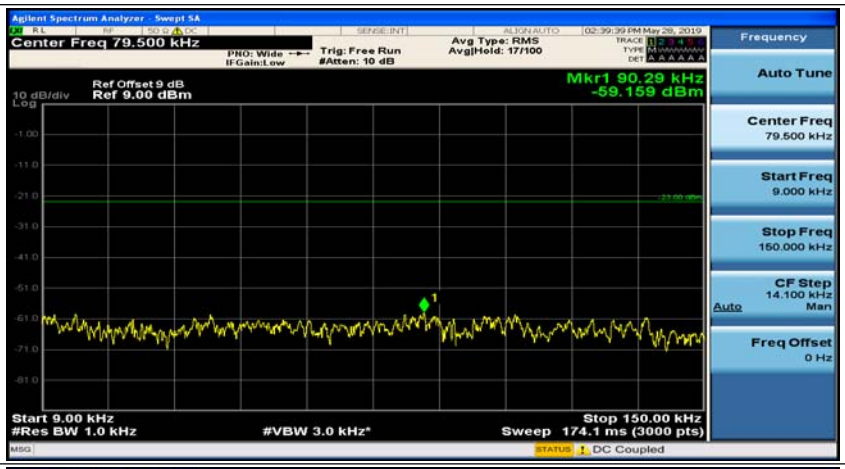
(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

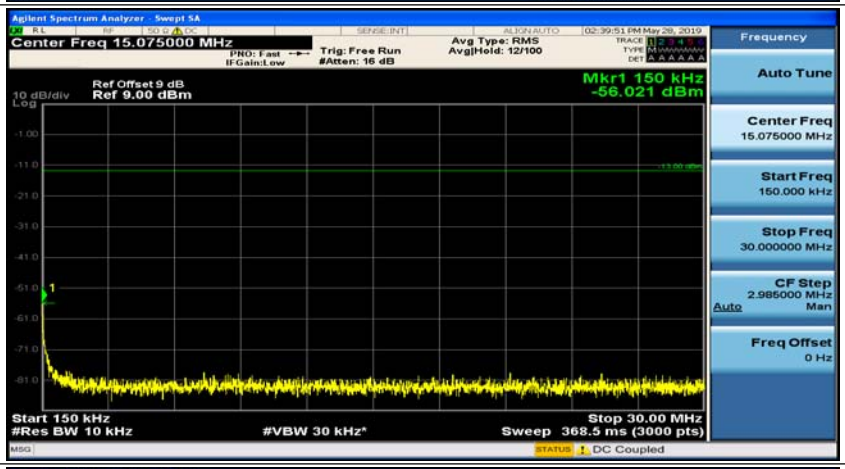


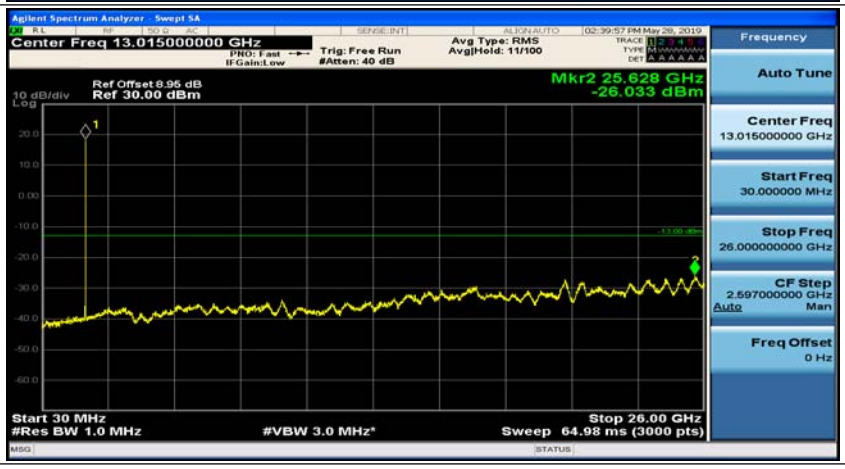




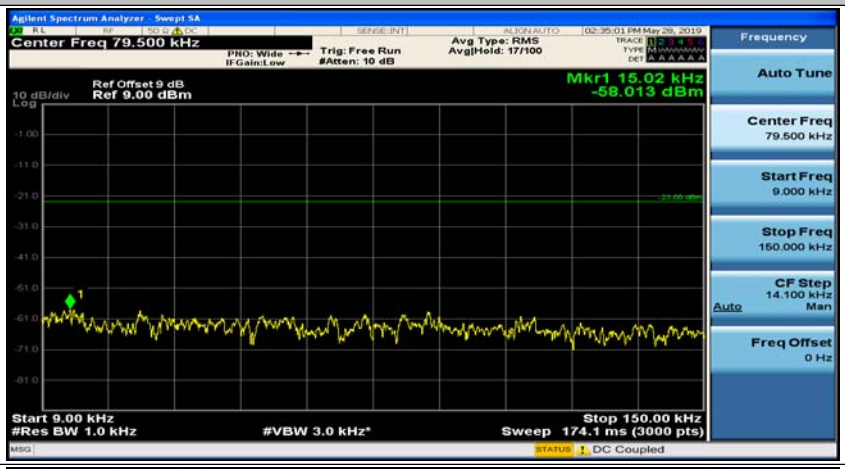
(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#99

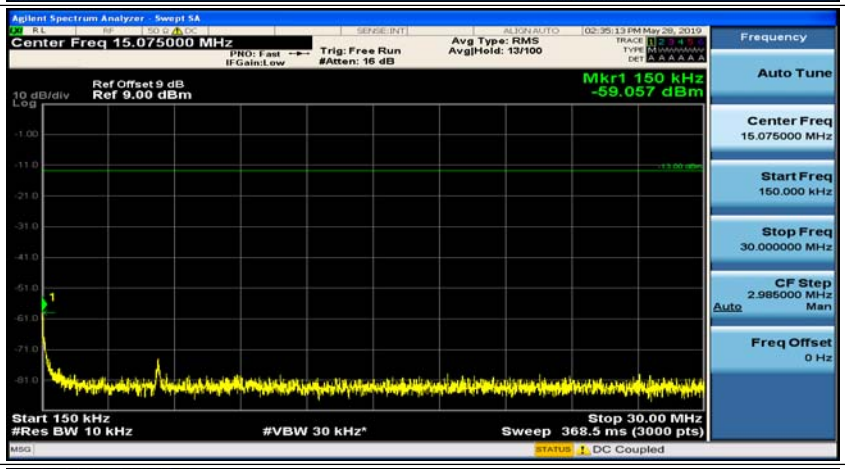

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 90.29 kHz
-59.159 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
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

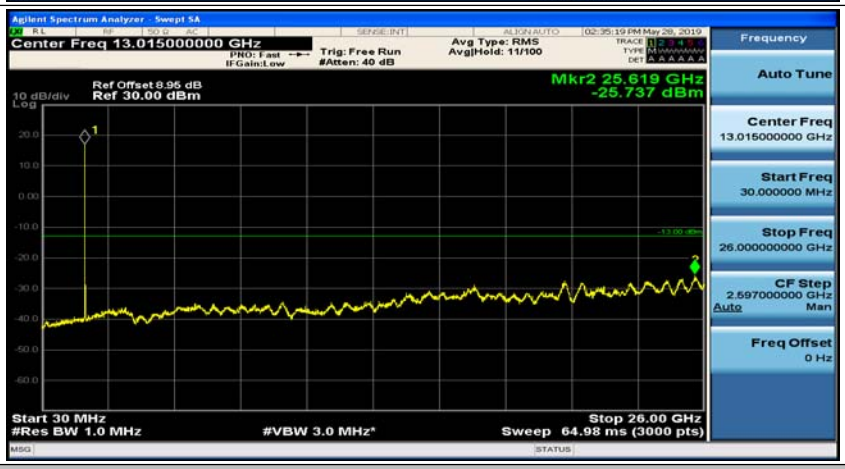

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-56.021 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
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
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.628 GHz
-26.033 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

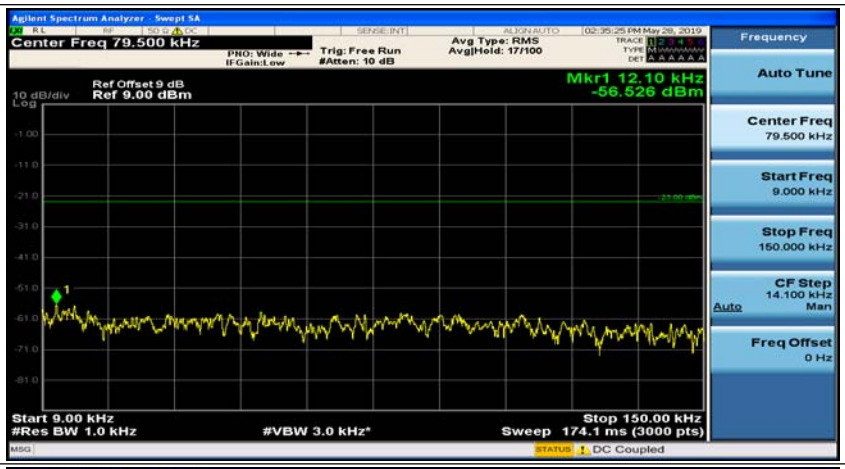
(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

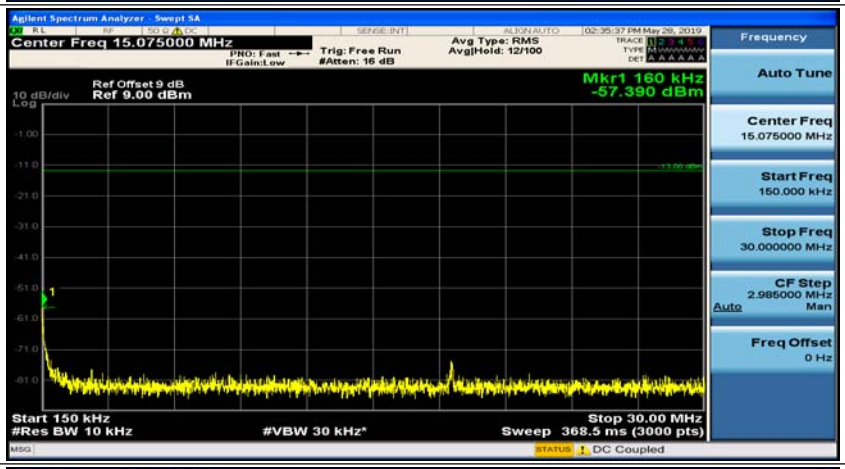


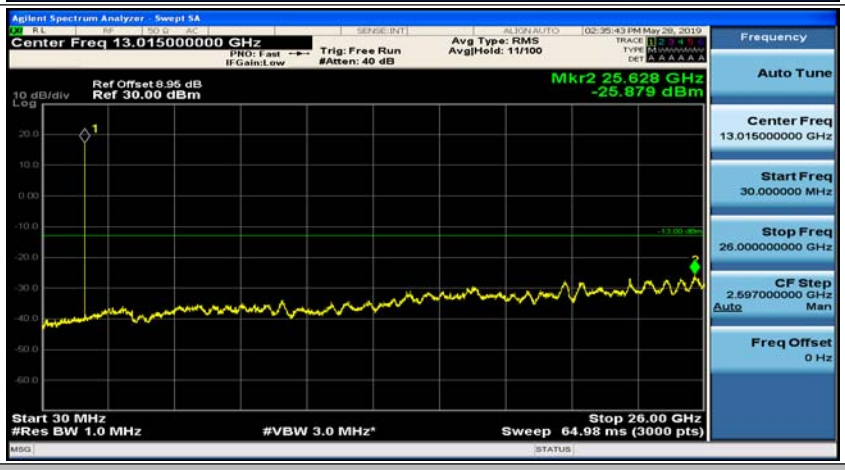




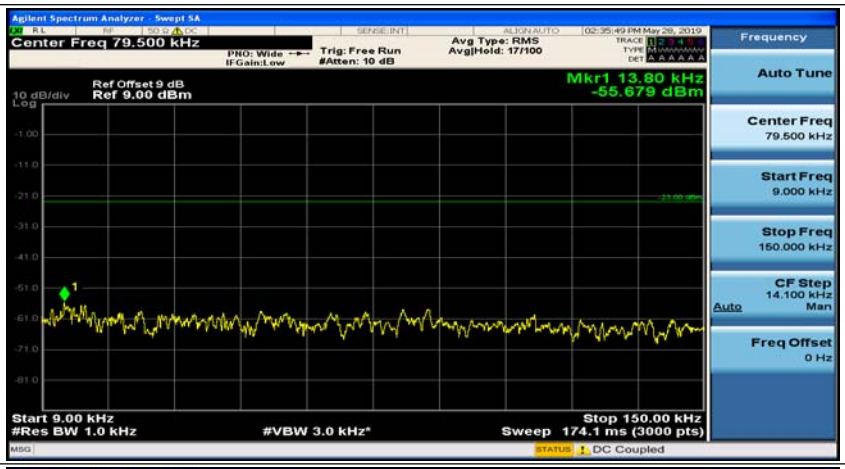
(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49

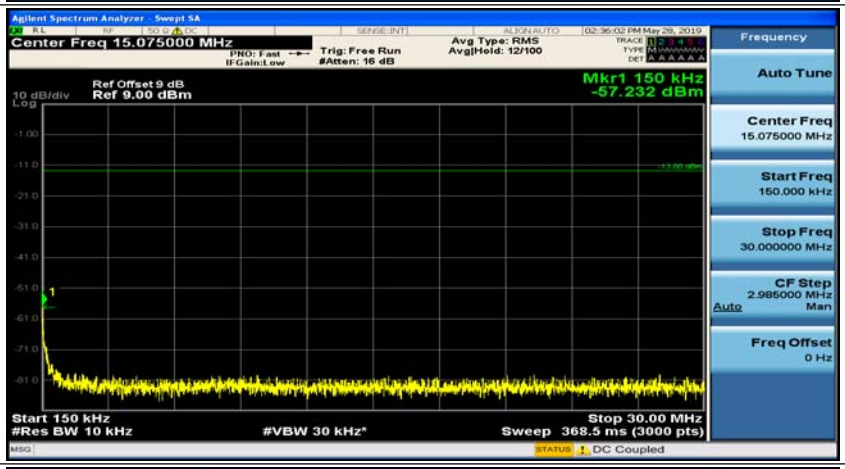


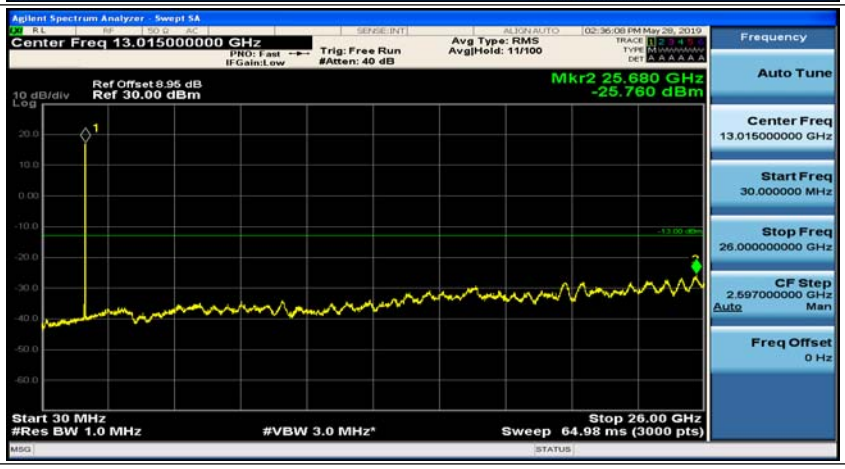




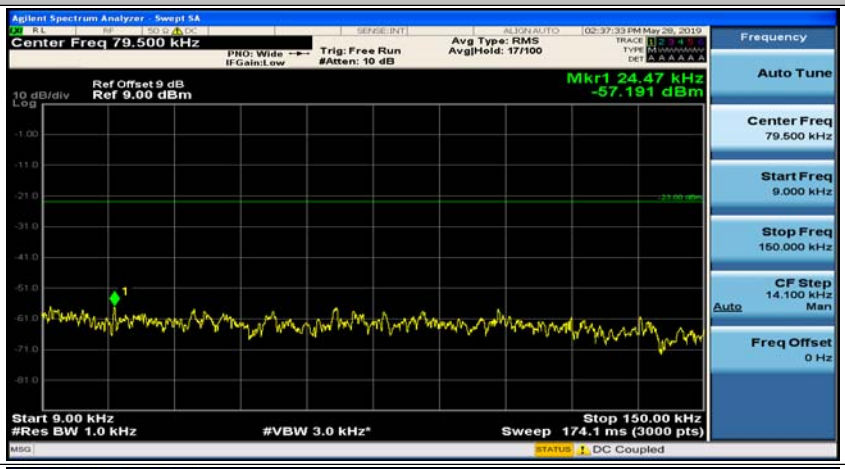
(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#99

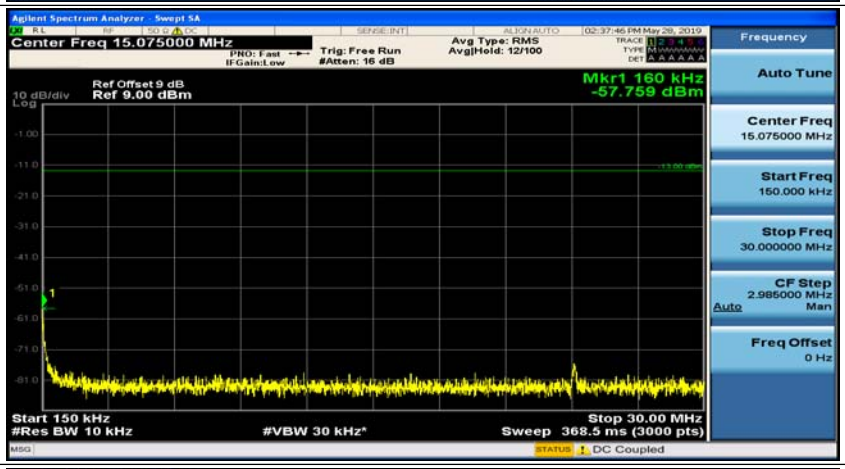

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 13.80 kHz
-55.679 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
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

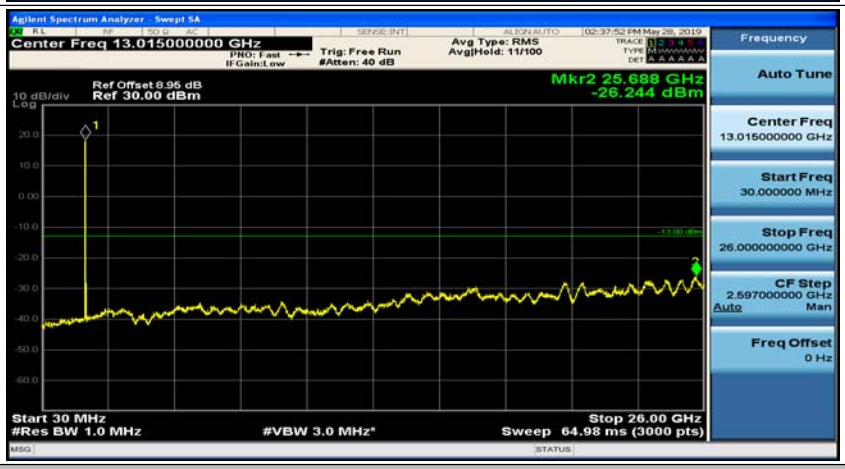

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-57.232 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
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
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.680 GHz
-25.760 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

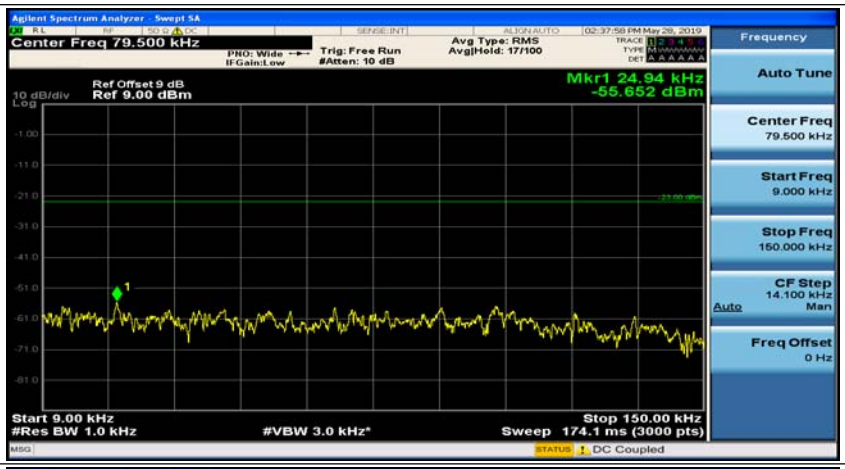
(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

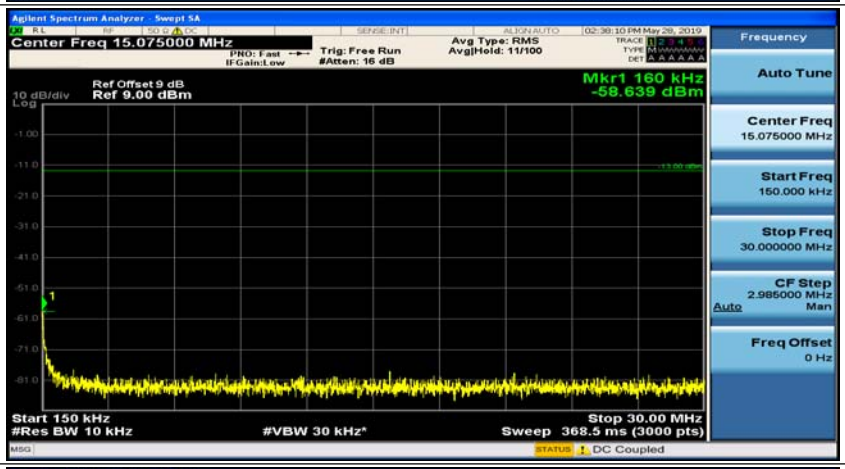


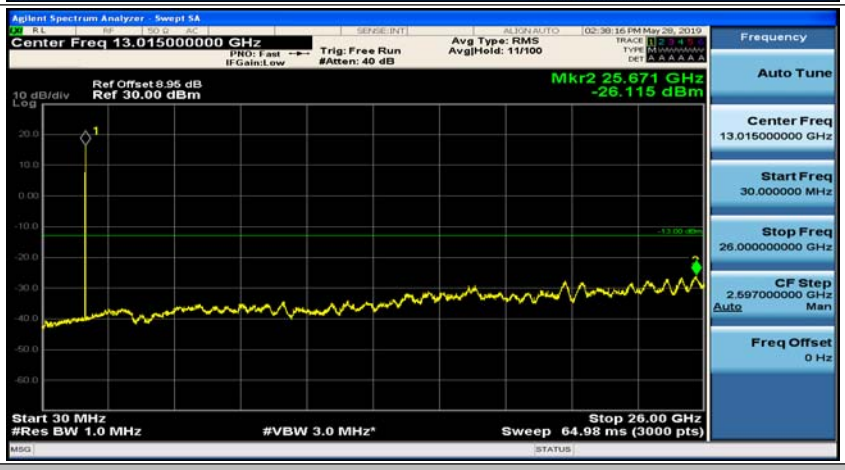




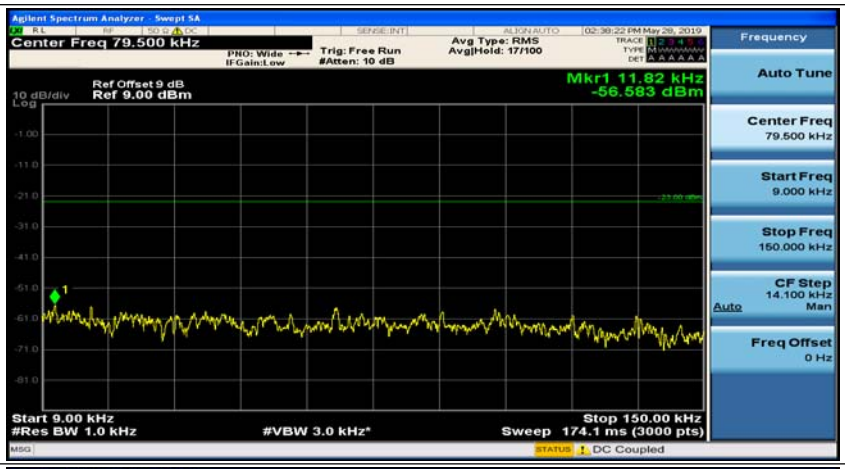
(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

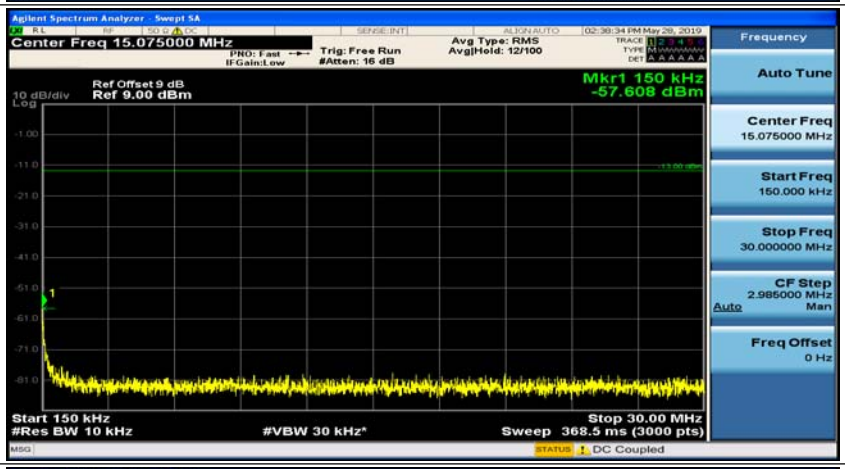


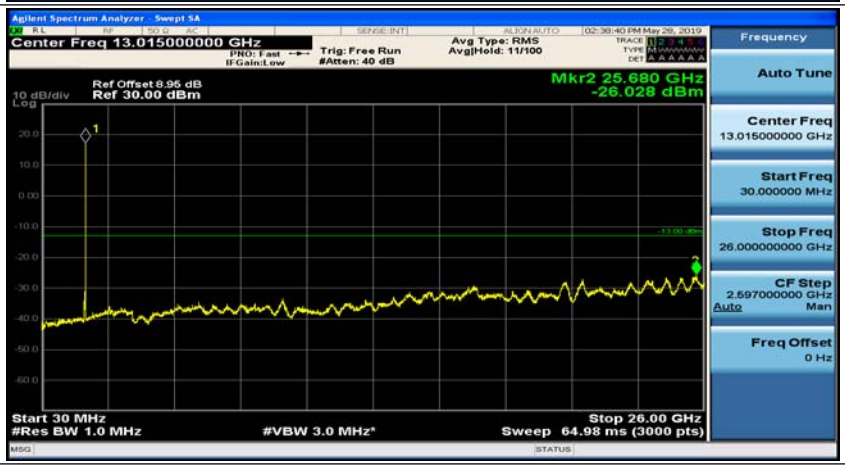




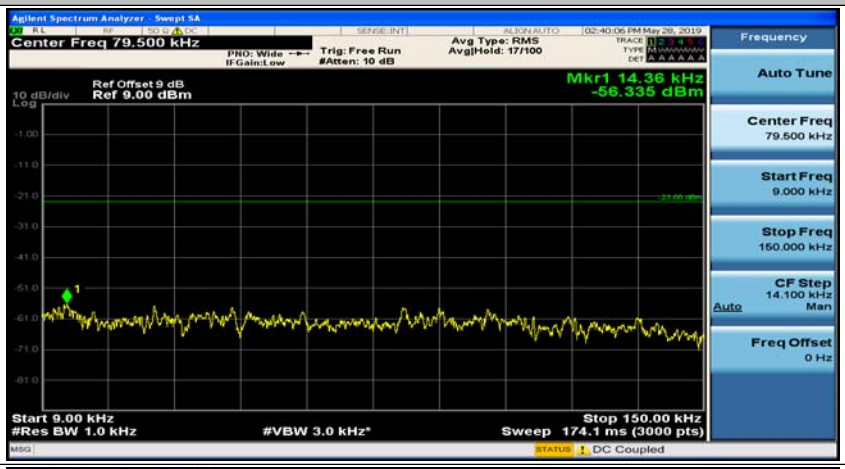
(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#99

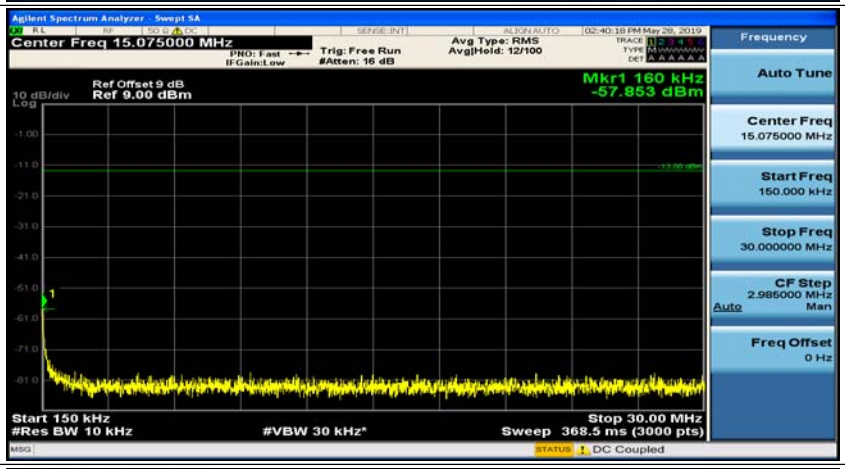

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 11.82 kHz
-56.583 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
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

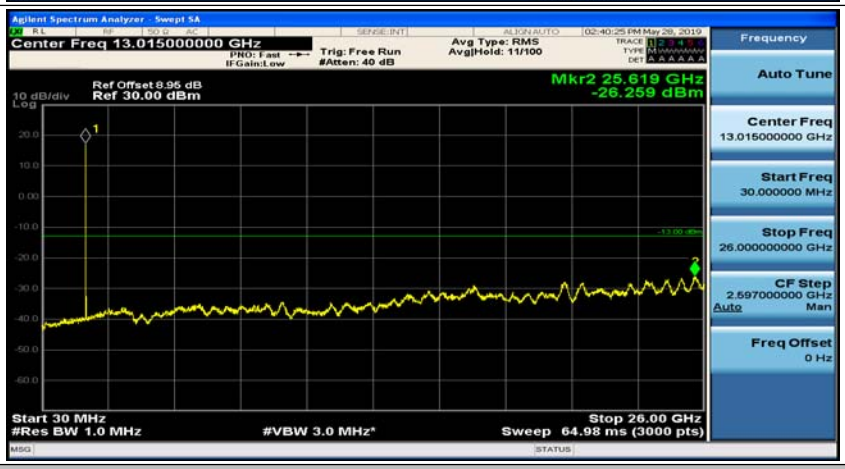

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-57.608 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
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
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.680 GHz
-26.028 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

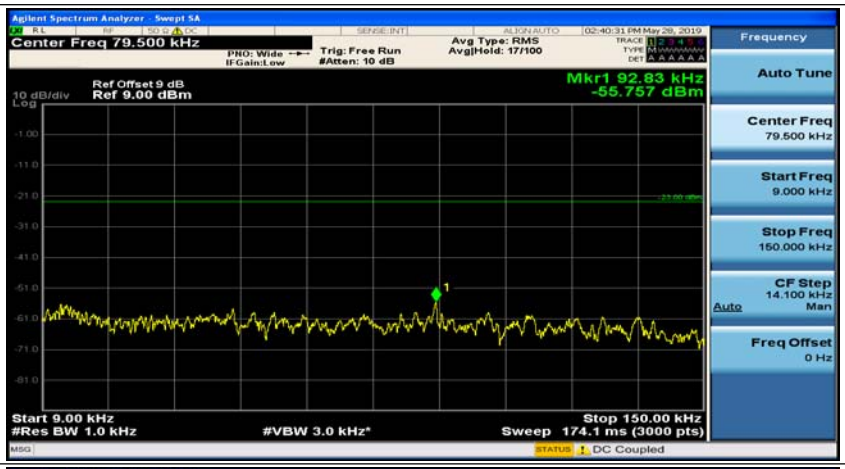
(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0

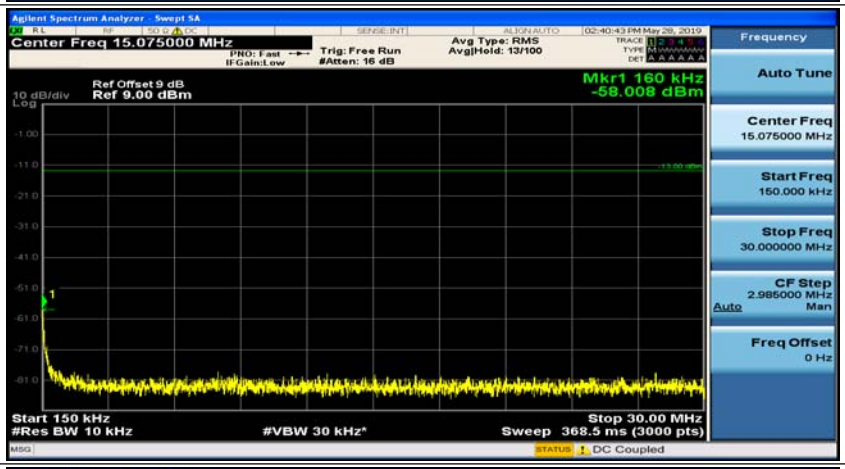


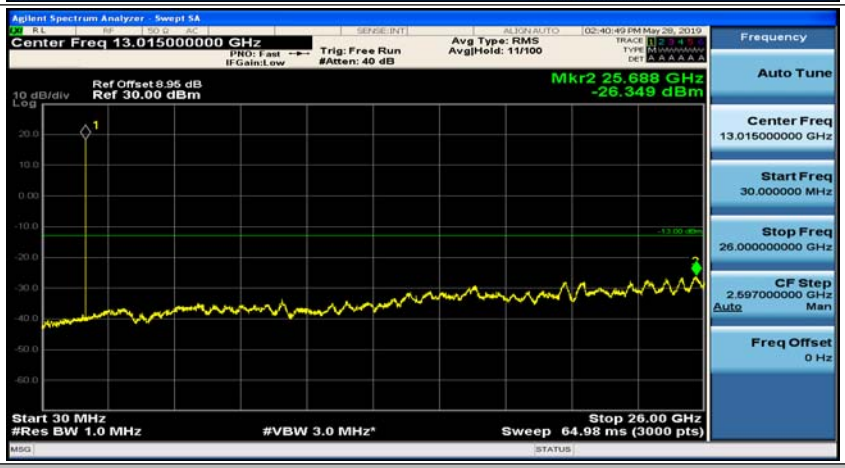




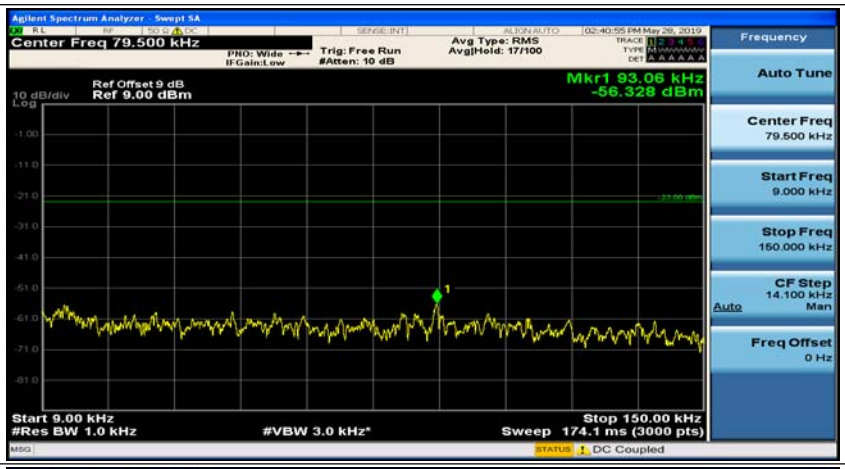
(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#49

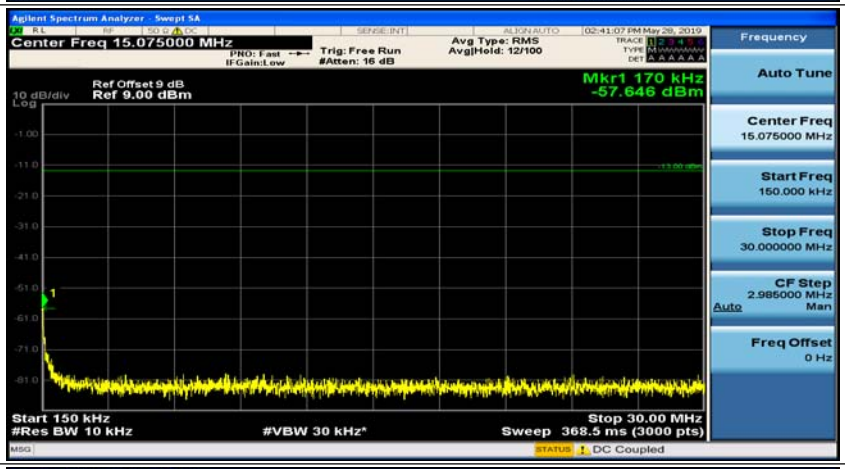


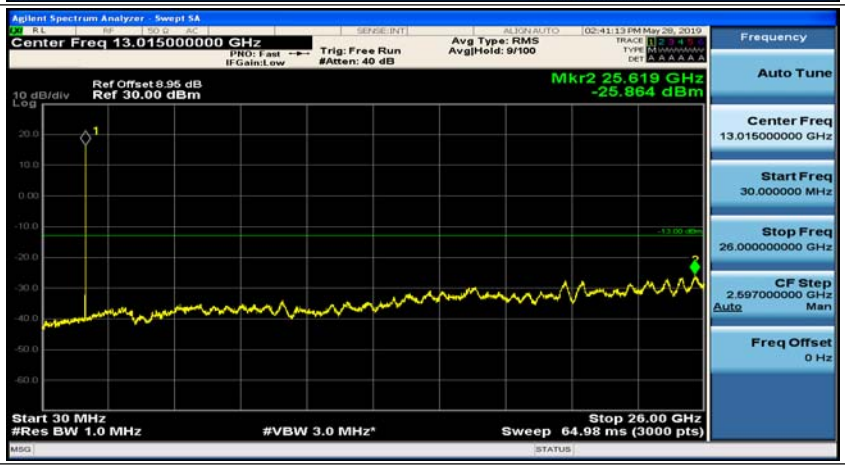




(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#99


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
02:40:55 PM May 28, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 93.06 kHz
-56.328 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
02:41:07 PM May 28, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 170 kHz
-57.646 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: 9/100
02:41:13 PM May 28, 2019
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.619 GHz
-25.864 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	-0.01	-0.000006	± 2.5	PASS
		VN	TN	-0.16	-0.000094	± 2.5	PASS
		VH	TN	2.76	0.001613	± 2.5	PASS
	MCH	VL	TN	-1.37	-0.000791	± 2.5	PASS
		VN	TN	4.81	0.002776	± 2.5	PASS
		VH	TN	3.88	0.002240	± 2.5	PASS
	HCH	VL	TN	0.89	0.000507	± 2.5	PASS
		VN	TN	-1.91	-0.001089	± 2.5	PASS
		VH	TN	0.64	0.000365	± 2.5	PASS
16QAM	LCH	VL	TN	-1.61	-0.000941	± 2.5	PASS
		VN	TN	0.14	0.000082	± 2.5	PASS
		VH	TN	-1.78	-0.001041	± 2.5	PASS
	MCH	VL	TN	-1.71	-0.000987	± 2.5	PASS
		VN	TN	-1.35	-0.000779	± 2.5	PASS
		VH	TN	4.35	0.002511	± 2.5	PASS
	HCH	VL	TN	2.14	0.001220	± 2.5	PASS
		VN	TN	4.16	0.002371	± 2.5	PASS
		VH	TN	4.48	0.002554	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.84	0.000491	± 2.5	PASS
		VN	-20	2.55	0.001491	± 2.5	PASS
		VN	-10	-1.77	-0.001035	± 2.5	PASS
		VN	0	2.63	0.001537	± 2.5	PASS
		VN	10	2.16	0.001263	± 2.5	PASS
		VN	20	-0.13	-0.000076	± 2.5	PASS
		VN	30	1.34	0.000783	± 2.5	PASS
		VN	40	2.11	0.001233	± 2.5	PASS
		VN	50	-1.8	-0.001052	± 2.5	PASS

	MCH	VN	-30	-0.13	-0.000075	± 2.5	PASS
		VN	-20	-1.43	-0.000825	± 2.5	PASS
		VN	-10	0.87	0.000502	± 2.5	PASS
		VN	0	2.86	0.001651	± 2.5	PASS
		VN	10	0.61	0.000352	± 2.5	PASS
		VN	20	4.69	0.002707	± 2.5	PASS
		VN	30	-0.85	-0.000491	± 2.5	PASS
		VN	40	-1.7	-0.000981	± 2.5	PASS
		VN	50	3.88	0.002240	± 2.5	PASS
	HCH	VN	-30	2.27	0.001294	± 2.5	PASS
		VN	-20	1.1	0.000627	± 2.5	PASS
		VN	-10	2.61	0.001488	± 2.5	PASS
		VN	0	3.5	0.001995	± 2.5	PASS
		VN	10	1.15	0.000656	± 2.5	PASS
		VN	20	0.81	0.000462	± 2.5	PASS
		VN	30	3.25	0.001853	± 2.5	PASS
		VN	40	4.03	0.002297	± 2.5	PASS
		VN	50	0.38	0.000217	± 2.5	PASS
16QAM	LCH	VN	-30	4.06	0.002373	± 2.5	PASS
		VN	-20	-0.35	-0.000205	± 2.5	PASS
		VN	-10	1.26	0.000737	± 2.5	PASS
		VN	0	3.3	0.001929	± 2.5	PASS
		VN	10	4.81	0.002812	± 2.5	PASS
		VN	20	-1.46	-0.000853	± 2.5	PASS
		VN	30	2.56	0.001496	± 2.5	PASS
		VN	40	2.26	0.001321	± 2.5	PASS
		VN	50	4.03	0.002356	± 2.5	PASS
	MCH	VN	-30	-0.06	-0.000034	± 2.5	PASS
		VN	-20	4.78	0.002725	± 2.5	PASS
		VN	-10	-1.52	-0.000866	± 2.5	PASS
		VN	0	3.21	0.001830	± 2.5	PASS
		VN	10	2.45	0.001397	± 2.5	PASS
		VN	20	-1.61	-0.000918	± 2.5	PASS
		VN	30	2.64	0.001505	± 2.5	PASS
		VN	40	-1.92	-0.001094	± 2.5	PASS
		VN	50	2.55	0.001454	± 2.5	PASS
	HCH	VN	-30	-1.46	-0.000832	± 2.5	PASS
		VN	-20	0.78	0.000445	± 2.5	PASS
		VN	-10	-1.55	-0.000884	± 2.5	PASS
		VN	0	-1.4	-0.000798	± 2.5	PASS
		VN	10	2.74	0.001562	± 2.5	PASS

		VN	20	1.91	0.001089	± 2.5	PASS
		VN	30	0.51	0.000291	± 2.5	PASS
		VN	40	-0.43	-0.000245	± 2.5	PASS
		VN	50	-1.08	-0.000616	± 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	-1.61	-0.000941	± 2.5	PASS
		VN	TN	-1.62	-0.000947	± 2.5	PASS
		VH	TN	2.75	0.001607	± 2.5	PASS
	MCH	VL	TN	0.93	0.000537	± 2.5	PASS
		VN	TN	1.5	0.000866	± 2.5	PASS
		VH	TN	-0.18	-0.000104	± 2.5	PASS
	HCH	VL	TN	1.51	0.000861	± 2.5	PASS
		VN	TN	0.74	0.000422	± 2.5	PASS
		VH	TN	1.07	0.000610	± 2.5	PASS
16QAM	LCH	VL	TN	2.24	0.001309	± 2.5	PASS
		VN	TN	2.97	0.001735	± 2.5	PASS
		VH	TN	-0.16	-0.000093	± 2.5	PASS
	MCH	VL	TN	2.24	0.001293	± 2.5	PASS
		VN	TN	4.69	0.002707	± 2.5	PASS
		VH	TN	2.21	0.001276	± 2.5	PASS
	HCH	VL	TN	3.62	0.002064	± 2.5	PASS
		VN	TN	-0.17	-0.000097	± 2.5	PASS
		VH	TN	4.57	0.002606	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.36	-0.000210	± 2.5	PASS
		VN	-20	2.78	0.001624	± 2.5	PASS
		VN	-10	-0.49	-0.000286	± 2.5	PASS
		VN	0	-1.05	-0.000613	± 2.5	PASS
		VN	10	-1.47	-0.000859	± 2.5	PASS
		VN	20	-1.17	-0.000684	± 2.5	PASS
		VN	30	3.65	0.002133	± 2.5	PASS
		VN	40	1.12	0.000654	± 2.5	PASS
		VN	50	4.32	0.002524	± 2.5	PASS
	MCH	VN	-30	-0.83	-0.000479	± 2.5	PASS

		VN	-20	4.29	0.002476	± 2.5	PASS
		VN	-10	1.69	0.000975	± 2.5	PASS
		VN	0	4.89	0.002823	± 2.5	PASS
		VN	10	4.01	0.002315	± 2.5	PASS
		VN	20	2.68	0.001547	± 2.5	PASS
		VN	30	3.53	0.002038	± 2.5	PASS
		VN	40	1.1	0.000635	± 2.5	PASS
		VN	50	3.07	0.001772	± 2.5	PASS
	HCH	VN	-30	3.5	0.001996	± 2.5	PASS
		VN	-20	3.51	0.002002	± 2.5	PASS
		VN	-10	2.93	0.001671	± 2.5	PASS
		VN	0	-1.95	-0.001112	± 2.5	PASS
		VN	10	3.45	0.001967	± 2.5	PASS
		VN	20	1.37	0.000781	± 2.5	PASS
		VN	30	-0.72	-0.000411	± 2.5	PASS
		VN	40	1.3	0.000741	± 2.5	PASS
		VN	50	-0.58	-0.000331	± 2.5	PASS
QPSK	LCH	VN	-30	4.4	0.002540	± 2.5	PASS
		VN	-20	4.06	0.002343	± 2.5	PASS
		VN	-10	-1.17	-0.000675	± 2.5	PASS
		VN	0	-0.96	-0.000554	± 2.5	PASS
		VN	10	1.4	0.000808	± 2.5	PASS
		VN	20	-1.3	-0.000750	± 2.5	PASS
		VN	30	-0.41	-0.000237	± 2.5	PASS
		VN	40	1.94	0.001120	± 2.5	PASS
		VN	50	-0.53	-0.000306	± 2.5	PASS
	MCH	VN	-30	-0.79	-0.000451	± 2.5	PASS
		VN	-20	-1.6	-0.000912	± 2.5	PASS
		VN	-10	0.74	0.000422	± 2.5	PASS
		VN	0	0.7	0.000399	± 2.5	PASS
		VN	10	-1.54	-0.000878	± 2.5	PASS
		VN	20	3.19	0.001819	± 2.5	PASS
		VN	30	2.81	0.001603	± 2.5	PASS
		VN	40	-1.72	-0.000981	± 2.5	PASS
		VN	50	4.41	0.002515	± 2.5	PASS
	HCH	VN	-30	0.79	0.000451	± 2.5	PASS
		VN	-20	-0.04	-0.000023	± 2.5	PASS
		VN	-10	2.58	0.001471	± 2.5	PASS
		VN	0	-1.86	-0.001061	± 2.5	PASS
		VN	10	-1.32	-0.000753	± 2.5	PASS
		VN	20	0.75	0.000428	± 2.5	PASS

		VN	30	0.96	0.000547	± 2.5	PASS
		VN	40	2.24	0.001277	± 2.5	PASS
		VN	50	1.32	0.000753	± 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	-1.42	-0.000829	± 2.5	PASS
		VN	TN	4.82	0.002815	± 2.5	PASS
		VH	TN	-1.2	-0.000701	± 2.5	PASS
	MCH	VL	TN	3.77	0.002176	± 2.5	PASS
		VN	TN	0.72	0.000416	± 2.5	PASS
		VH	TN	4.71	0.002719	± 2.5	PASS
	HCH	VL	TN	4.35	0.002482	± 2.5	PASS
		VN	TN	2.11	0.001204	± 2.5	PASS
		VH	TN	2.13	0.001215	± 2.5	PASS
16QAM	LCH	VL	TN	4.24	0.002476	± 2.5	PASS
		VN	TN	1.26	0.000736	± 2.5	PASS
		VH	TN	3.4	0.001985	± 2.5	PASS
	MCH	VL	TN	-1.36	-0.000785	± 2.5	PASS
		VN	TN	-0.88	-0.000508	± 2.5	PASS
		VH	TN	-1.96	-0.001131	± 2.5	PASS
	HCH	VL	TN	1.82	0.001039	± 2.5	PASS
		VN	TN	0.33	0.000188	± 2.5	PASS
		VH	TN	4.43	0.002528	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.26	0.000736	± 2.5	PASS
		VN	-20	2.41	0.001407	± 2.5	PASS
		VN	-10	1.82	0.001063	± 2.5	PASS
		VN	0	0.83	0.000485	± 2.5	PASS
		VN	10	4.79	0.002797	± 2.5	PASS
		VN	20	2.68	0.001565	± 2.5	PASS
		VN	30	2.19	0.001279	± 2.5	PASS
		VN	40	-1.04	-0.000607	± 2.5	PASS
		VN	50	-0.59	-0.000345	± 2.5	PASS
	MCH	VN	-30	3.12	0.001801	± 2.5	PASS
		VN	-20	3.19	0.001841	± 2.5	PASS

		VN	-10	1.15	0.000664	± 2.5	PASS
		VN	0	1.51	0.000872	± 2.5	PASS
		VN	10	0.19	0.000110	± 2.5	PASS
		VN	20	2.48	0.001431	± 2.5	PASS
		VN	30	4.38	0.002528	± 2.5	PASS
		VN	40	2.45	0.001414	± 2.5	PASS
		VN	50	1.07	0.000618	± 2.5	PASS
	HCH	VN	-30	4.56	0.002602	± 2.5	PASS
		VN	-20	-0.01	-0.000005	± 2.5	PASS
		VN	-10	3.25	0.001704	± 2.5	PASS
		VN	0	0.84	0.000440	± 2.5	PASS
		VN	10	1.83	0.000959	± 2.5	PASS
		VN	20	1.55	0.000813	± 2.5	PASS
		VN	30	3.34	0.001751	± 2.5	PASS
		VN	40	-1.88	-0.000986	± 2.5	PASS
		VN	50	2.04	0.001069	± 2.5	PASS
16QAM	LCH	VN	-30	2.99	0.001726	± 2.5	PASS
		VN	-20	4.04	0.002332	± 2.5	PASS
		VN	-10	4.59	0.002649	± 2.5	PASS
		VN	0	-1.04	-0.000600	± 2.5	PASS
		VN	10	-0.07	-0.000040	± 2.5	PASS
		VN	20	-1.15	-0.000664	± 2.5	PASS
		VN	30	4.95	0.002857	± 2.5	PASS
		VN	40	-0.43	-0.000248	± 2.5	PASS
		VN	50	4.4	0.002540	± 2.5	PASS
	MCH	VN	-30	0.5	0.000285	± 2.5	PASS
		VN	-20	0.43	0.000245	± 2.5	PASS
		VN	-10	3.61	0.002060	± 2.5	PASS
		VN	0	2.36	0.001347	± 2.5	PASS
		VN	10	4.47	0.002551	± 2.5	PASS
		VN	20	2.64	0.001506	± 2.5	PASS
		VN	30	0.66	0.000377	± 2.5	PASS
		VN	40	4.88	0.002785	± 2.5	PASS
		VN	50	4.31	0.002459	± 2.5	PASS
	HCH	VN	-30	-1.78	-0.000933	± 2.5	PASS
		VN	-20	-0.67	-0.000351	± 2.5	PASS
		VN	-10	0.22	0.000115	± 2.5	PASS
		VN	0	2.02	0.001059	± 2.5	PASS
		VN	10	1.79	0.000938	± 2.5	PASS
		VN	20	0.53	0.000278	± 2.5	PASS
		VN	30	0.54	0.000283	± 2.5	PASS

		VN	40	2.86	0.001499	± 2.5	PASS
		VN	50	0.96	0.000503	± 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	-1.54	-0.000898	± 2.5	PASS
		VN	TN	3.09	0.001802	± 2.5	PASS
		VH	TN	4.95	0.002886	± 2.5	PASS
	MCH	VL	TN	2.86	0.001651	± 2.5	PASS
		VN	TN	-0.57	-0.000329	± 2.5	PASS
		VH	TN	4.66	0.002690	± 2.5	PASS
	HCH	VL	TN	-0.01	-0.000006	± 2.5	PASS
		VN	TN	2.65	0.001514	± 2.5	PASS
		VH	TN	1.63	0.000931	± 2.5	PASS
16QAM	LCH	VL	TN	-1.78	-0.001038	± 2.5	PASS
		VN	TN	1.98	0.001155	± 2.5	PASS
		VH	TN	-1.99	-0.001160	± 2.5	PASS
	MCH	VL	TN	-1.81	-0.001045	± 2.5	PASS
		VN	TN	-0.6	-0.000346	± 2.5	PASS
		VH	TN	1.42	0.000820	± 2.5	PASS
	HCH	VL	TN	2.77	0.001583	± 2.5	PASS
		VN	TN	4.35	0.002486	± 2.5	PASS
		VH	TN	4.86	0.002777	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	2.39	0.001394	± 2.5	PASS
		VN	-20	-1.66	-0.000968	± 2.5	PASS
		VN	-10	-1.65	-0.000962	± 2.5	PASS
		VN	0	1.3	0.000758	± 2.5	PASS
		VN	10	4.16	0.002426	± 2.5	PASS
		VN	20	0.74	0.000431	± 2.5	PASS
		VN	30	3.28	0.001913	± 2.5	PASS
		VN	40	-1.22	-0.000711	± 2.5	PASS
		VN	50	3.14	0.001831	± 2.5	PASS
	MCH	VN	-30	1.77	0.001022	± 2.5	PASS
		VN	-20	1.23	0.000710	± 2.5	PASS
		VN	-10	1.71	0.000987	± 2.5	PASS

		VN	0	1.52	0.000877	± 2.5	PASS
		VN	10	2.63	0.001518	± 2.5	PASS
		VN	20	-1.24	-0.000716	± 2.5	PASS
		VN	30	2.64	0.001524	± 2.5	PASS
		VN	40	2.46	0.001420	± 2.5	PASS
		VN	50	0.79	0.000456	± 2.5	PASS
	HCH	VN	-30	-0.99	-0.000566	± 2.5	PASS
		VN	-20	-1.81	-0.001034	± 2.5	PASS
		VN	-10	2.77	0.001583	± 2.5	PASS
		VN	0	1.25	0.000714	± 2.5	PASS
		VN	10	1.29	0.000737	± 2.5	PASS
		VN	20	-0.92	-0.000526	± 2.5	PASS
		VN	30	4.46	0.002549	± 2.5	PASS
		VN	40	-0.23	-0.000131	± 2.5	PASS
		VN	50	1.26	0.000720	± 2.5	PASS
QPSK	LCH	VN	-30	-1.17	-0.000675	± 2.5	PASS
		VN	-20	2.6	0.001501	± 2.5	PASS
		VN	-10	-0.15	-0.000087	± 2.5	PASS
		VN	0	2.14	0.001235	± 2.5	PASS
		VN	10	-1.93	-0.001114	± 2.5	PASS
		VN	20	3.22	0.001859	± 2.5	PASS
		VN	30	0.04	0.000023	± 2.5	PASS
		VN	40	0.95	0.000548	± 2.5	PASS
		VN	50	-0.89	-0.000514	± 2.5	PASS
	MCH	VN	-30	-1.68	-0.000960	± 2.5	PASS
		VN	-20	0.25	0.000143	± 2.5	PASS
		VN	-10	0.69	0.000394	± 2.5	PASS
		VN	0	4.74	0.002709	± 2.5	PASS
		VN	10	3.43	0.001960	± 2.5	PASS
		VN	20	0.27	0.000154	± 2.5	PASS
		VN	30	-1.59	-0.000909	± 2.5	PASS
		VN	40	2.23	0.001274	± 2.5	PASS
		VN	50	-0.04	-0.000023	± 2.5	PASS
	HCH	VN	-30	3.75	0.002143	± 2.5	PASS
		VN	-20	-1.77	-0.001011	± 2.5	PASS
		VN	-10	0.28	0.000160	± 2.5	PASS
		VN	0	3.89	0.002223	± 2.5	PASS
		VN	10	-1.04	-0.000594	± 2.5	PASS
		VN	20	4.25	0.002429	± 2.5	PASS
		VN	30	1.74	0.000994	± 2.5	PASS
		VN	40	-1.43	-0.000817	± 2.5	PASS

		VN	50	1.06	0.000606	± 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	0.66	0.000384	± 2.5	PASS
		VN	TN	-1.54	-0.000897	± 2.5	PASS
		VH	TN	3.8	0.002213	± 2.5	PASS
	MCH	VL	TN	1.42	0.000820	± 2.5	PASS
		VN	TN	-1.74	-0.001004	± 2.5	PASS
		VH	TN	2.33	0.001345	± 2.5	PASS
	HCH	VL	TN	2.12	0.001213	± 2.5	PASS
		VN	TN	3.5	0.002003	± 2.5	PASS
		VH	TN	-1.13	-0.000647	± 2.5	PASS
16QAM	LCH	VL	TN	-0.71	-0.000413	± 2.5	PASS
		VN	TN	-0.97	-0.000565	± 2.5	PASS
		VH	TN	3.49	0.002032	± 2.5	PASS
	MCH	VL	TN	0.24	0.000139	± 2.5	PASS
		VN	TN	-1.34	-0.000773	± 2.5	PASS
		VH	TN	-1.45	-0.000837	± 2.5	PASS
	HCH	VL	TN	2.46	0.001408	± 2.5	PASS
		VN	TN	1.2	0.000687	± 2.5	PASS
		VH	TN	0.5	0.000286	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.81	-0.000472	± 2.5	PASS
		VN	-20	3.1	0.001805	± 2.5	PASS
		VN	-10	3.04	0.001770	± 2.5	PASS
		VN	0	1.18	0.000687	± 2.5	PASS
		VN	10	4.83	0.002812	± 2.5	PASS
		VN	20	-0.9	-0.000524	± 2.5	PASS
		VN	30	-1.73	-0.001007	± 2.5	PASS
		VN	40	4.88	0.002841	± 2.5	PASS
		VN	50	3.03	0.001764	± 2.5	PASS
	MCH	VN	-30	-1.7	-0.000981	± 2.5	PASS
		VN	-20	2.64	0.001524	± 2.5	PASS
		VN	-10	3.14	0.001812	± 2.5	PASS
		VN	0	0.86	0.000496	± 2.5	PASS

		VN	10	4.84	0.002794	± 2.5	PASS
		VN	20	2.58	0.001489	± 2.5	PASS
		VN	30	0.17	0.000098	± 2.5	PASS
		VN	40	3.04	0.001755	± 2.5	PASS
		VN	50	-0.09	-0.000052	± 2.5	PASS
	HCH	VN	-30	1.5	0.000858	± 2.5	PASS
		VN	-20	-1.02	-0.000584	± 2.5	PASS
		VN	-10	3.22	0.001843	± 2.5	PASS
		VN	0	-0.26	-0.000149	± 2.5	PASS
		VN	10	2.15	0.001230	± 2.5	PASS
		VN	20	0.24	0.000137	± 2.5	PASS
		VN	30	1.43	0.000818	± 2.5	PASS
		VN	40	0.94	0.000538	± 2.5	PASS
		VN	50	0.12	0.000069	± 2.5	PASS
QPSK	LCH	VN	-30	-1.44	-0.000831	± 2.5	PASS
		VN	-20	-0.15	-0.000087	± 2.5	PASS
		VN	-10	-1.1	-0.000635	± 2.5	PASS
		VN	0	4.48	0.002586	± 2.5	PASS
		VN	10	4.41	0.002545	± 2.5	PASS
		VN	20	4.65	0.002684	± 2.5	PASS
		VN	30	2.65	0.001530	± 2.5	PASS
		VN	40	2.77	0.001599	± 2.5	PASS
		VN	50	4.43	0.002557	± 2.5	PASS
	MCH	VN	-30	1.23	0.000704	± 2.5	PASS
		VN	-20	4.03	0.002306	± 2.5	PASS
		VN	-10	1.33	0.000761	± 2.5	PASS
		VN	0	-0.9	-0.000515	± 2.5	PASS
		VN	10	1.56	0.000893	± 2.5	PASS
		VN	20	3.6	0.002060	± 2.5	PASS
		VN	30	0.51	0.000292	± 2.5	PASS
		VN	40	1.96	0.001122	± 2.5	PASS
		VN	50	4.4	0.002518	± 2.5	PASS
	HCH	VN	-30	-0.35	-0.000200	± 2.5	PASS
		VN	-20	0.51	0.000292	± 2.5	PASS
		VN	-10	4.53	0.002592	± 2.5	PASS
		VN	0	4.33	0.002478	± 2.5	PASS
		VN	10	3.02	0.001728	± 2.5	PASS
		VN	20	2.83	0.001619	± 2.5	PASS
		VN	30	0.78	0.000446	± 2.5	PASS
		VN	40	-1.07	-0.000612	± 2.5	PASS
		VN	50	-0.79	-0.000452	± 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	1.45	0.000843	± 2.5	PASS
		VN	TN	2.67	0.001552	± 2.5	PASS
		VH	TN	2.79	0.001622	± 2.5	PASS
	MCH	VL	TN	3.84	0.002216	± 2.5	PASS
		VN	TN	4.63	0.002672	± 2.5	PASS
		VH	TN	1.61	0.000929	± 2.5	PASS
	HCH	VL	TN	-1.92	-0.001100	± 2.5	PASS
		VN	TN	0.64	0.000367	± 2.5	PASS
		VH	TN	-0.83	-0.000476	± 2.5	PASS
16QAM	LCH	VL	TN	3.85	0.002238	± 2.5	PASS
		VN	TN	-1.64	-0.000953	± 2.5	PASS
		VH	TN	2.03	0.001180	± 2.5	PASS
	MCH	VL	TN	4.18	0.002413	± 2.5	PASS
		VN	TN	2.22	0.001281	± 2.5	PASS
		VH	TN	1.41	0.000814	± 2.5	PASS
	HCH	VL	TN	2	0.001146	± 2.5	PASS
		VN	TN	4.35	0.002493	± 2.5	PASS
		VH	TN	0.21	0.000120	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.38	0.001384	± 2.5	PASS
		VN	-20	-1.07	-0.000622	± 2.5	PASS
		VN	-10	4.21	0.002448	± 2.5	PASS
		VN	0	4.09	0.002378	± 2.5	PASS
		VN	10	1.81	0.001052	± 2.5	PASS
		VN	20	4.52	0.002628	± 2.5	PASS
		VN	30	0.67	0.000390	± 2.5	PASS
		VN	40	1.38	0.000802	± 2.5	PASS
		VN	50	3.61	0.002099	± 2.5	PASS
	MCH	VN	-30	2.7	0.001558	± 2.5	PASS
		VN	-20	4.28	0.002470	± 2.5	PASS
		VN	-10	4.24	0.002447	± 2.5	PASS
		VN	0	-1.75	-0.001010	± 2.5	PASS
		VN	10	1.85	0.001068	± 2.5	PASS

		VN	20	-0.46	-0.000266	± 2.5	PASS
		VN	30	3.83	0.002211	± 2.5	PASS
		VN	40	4.99	0.002880	± 2.5	PASS
		VN	50	0.69	0.000398	± 2.5	PASS
	HCH	VN	-30	1.47	0.000842	± 2.5	PASS
		VN	-20	1.77	0.001014	± 2.5	PASS
		VN	-10	-1.78	-0.001020	± 2.5	PASS
		VN	0	-1.29	-0.000739	± 2.5	PASS
		VN	10	-1.83	-0.001049	± 2.5	PASS
		VN	20	1.62	0.000928	± 2.5	PASS
		VN	30	0.33	0.000189	± 2.5	PASS
		VN	40	4.01	0.002298	± 2.5	PASS
		VN	50	0.24	0.000138	± 2.5	PASS
QPSK	LCH	VN	-30	4.39	0.002534	± 2.5	PASS
		VN	-20	1.8	0.001039	± 2.5	PASS
		VN	-10	0.13	0.000075	± 2.5	PASS
		VN	0	4.6	0.002655	± 2.5	PASS
		VN	10	2.35	0.001356	± 2.5	PASS
		VN	20	-1.5	-0.000866	± 2.5	PASS
		VN	30	4.9	0.002828	± 2.5	PASS
		VN	40	0	0.000000	± 2.5	PASS
		VN	50	4.12	0.002378	± 2.5	PASS
	MCH	VN	-30	1.14	0.000653	± 2.5	PASS
		VN	-20	-0.24	-0.000138	± 2.5	PASS
		VN	-10	-0.85	-0.000487	± 2.5	PASS
		VN	0	1.64	0.000940	± 2.5	PASS
		VN	10	0.79	0.000453	± 2.5	PASS
		VN	20	-1.54	-0.000883	± 2.5	PASS
		VN	30	4.6	0.002636	± 2.5	PASS
		VN	40	-1.95	-0.001117	± 2.5	PASS
		VN	50	0.52	0.000298	± 2.5	PASS
	HCH	VN	-30	-1.83	-0.001049	± 2.5	PASS
		VN	-20	2	0.001146	± 2.5	PASS
		VN	-10	-1.68	-0.000963	± 2.5	PASS
		VN	0	2.48	0.001421	± 2.5	PASS
		VN	10	0	0.000000	± 2.5	PASS
		VN	20	-1.08	-0.000619	± 2.5	PASS
		VN	30	0.54	0.000309	± 2.5	PASS
		VN	40	0.35	0.000201	± 2.5	PASS
		VN	50	2.06	0.001181	± 2.5	PASS