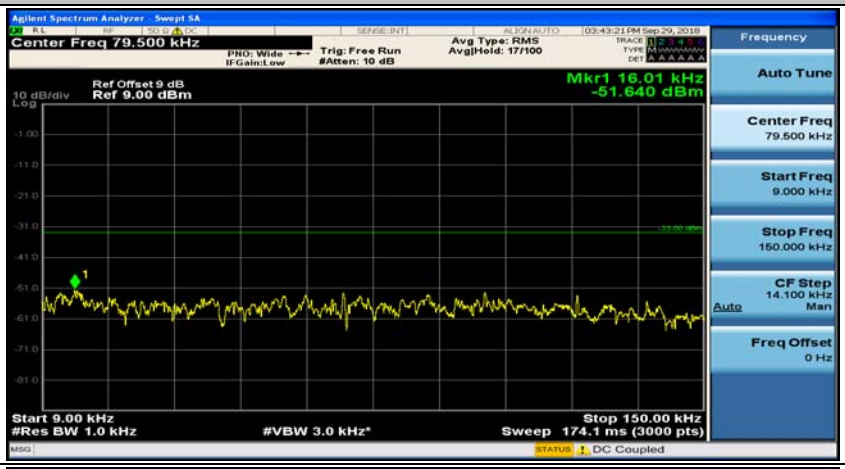
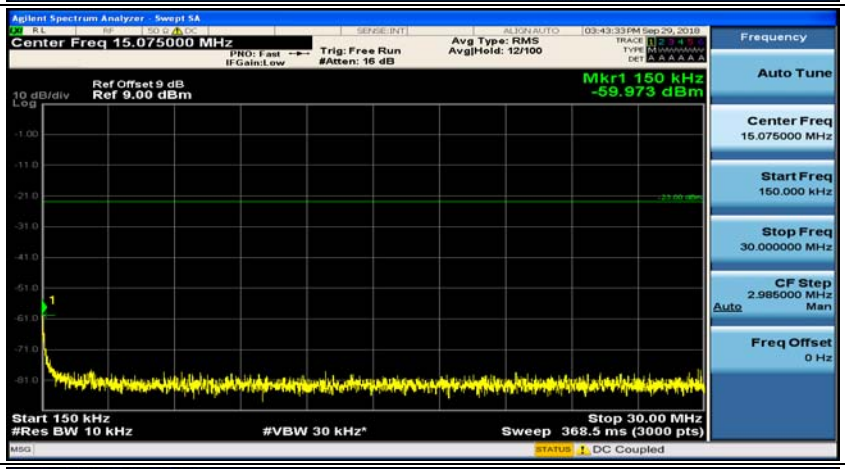
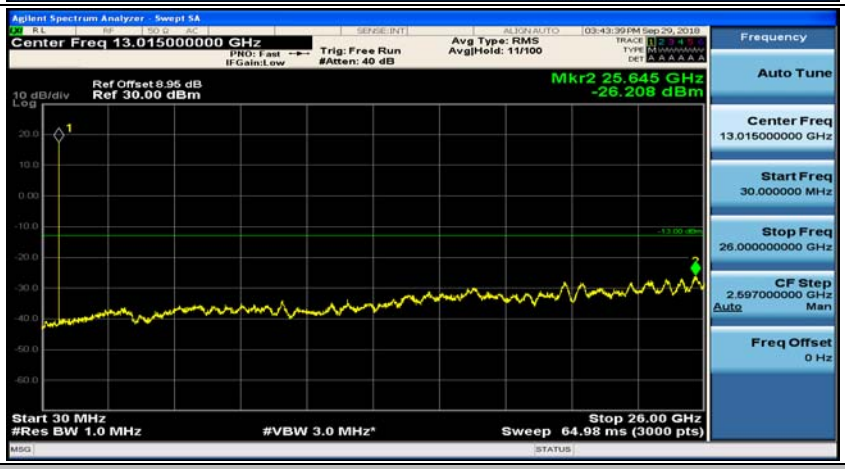
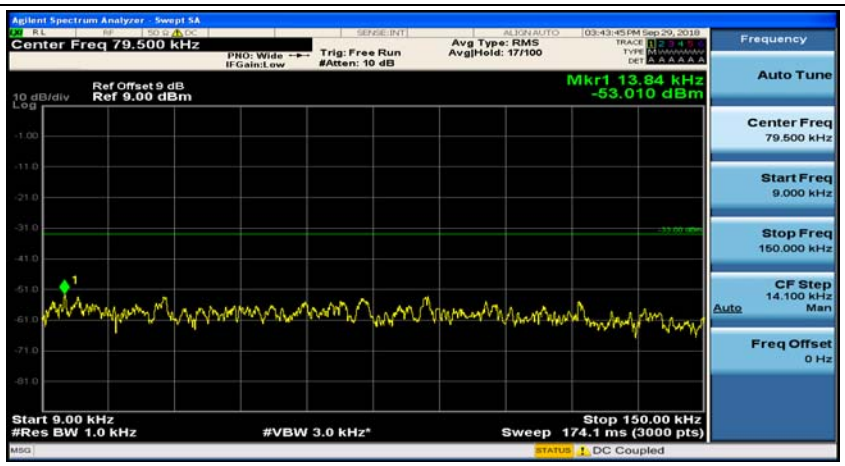
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0

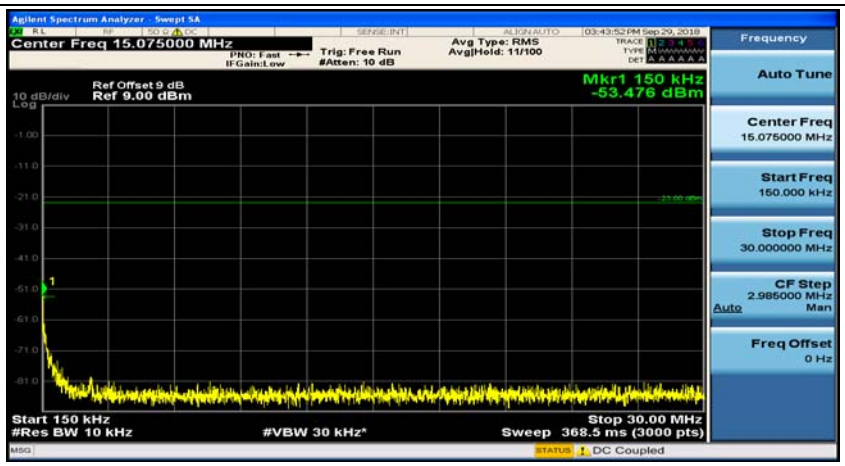






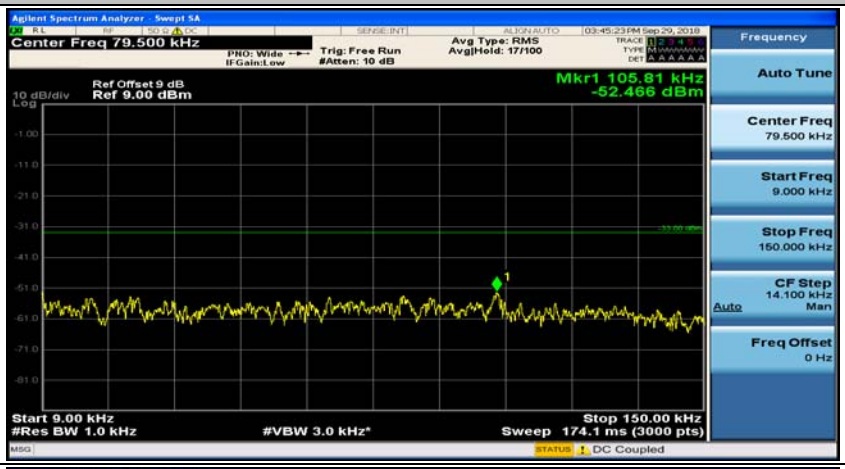
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7

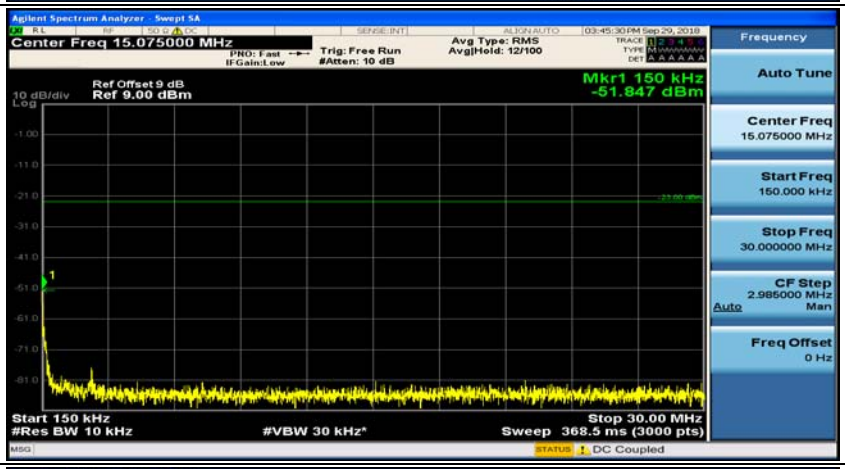

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
03:43:45 PM Sep 29, 2018
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 13.84 kHz
-53.010 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 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

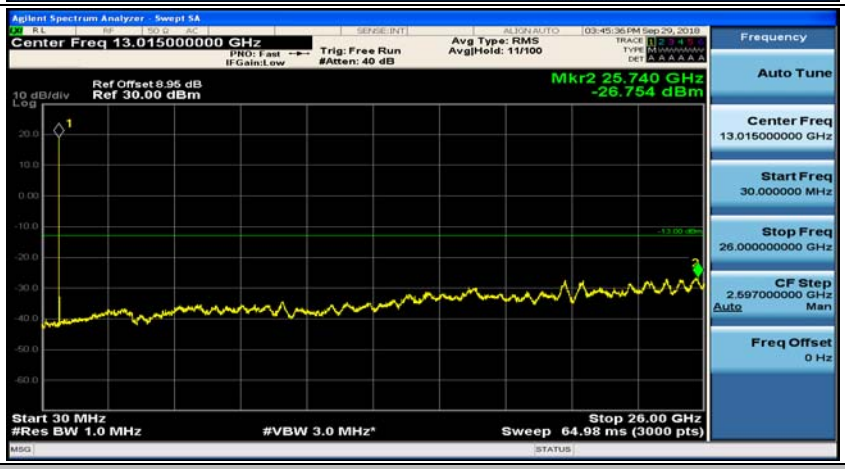

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 11/100
03:43:52 PM Sep 29, 2018
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-53.476 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 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
03:43:57 PM Sep 29, 2018
Ref Offset 8.96 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.671 GHz
-25.617 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

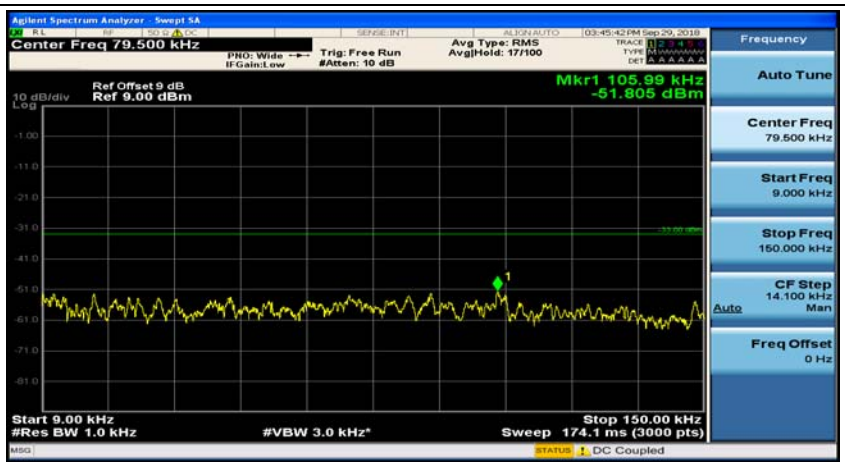
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0

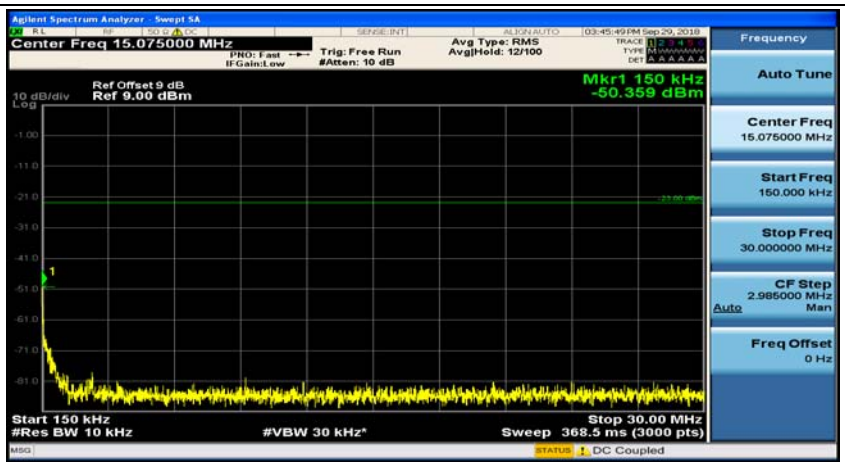






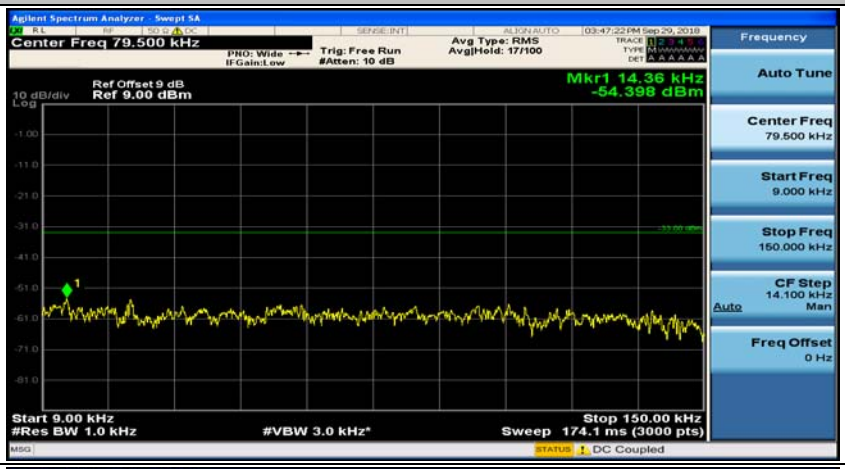
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7

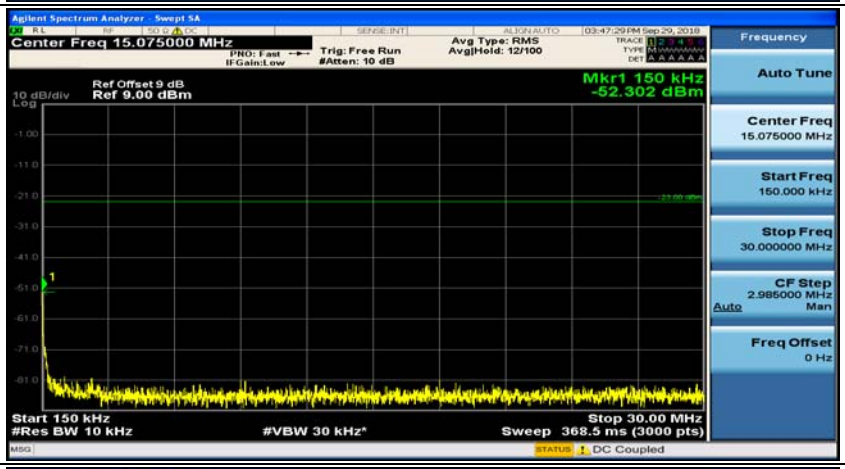

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 105.99 kHz
-51.805 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
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
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-50.359 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

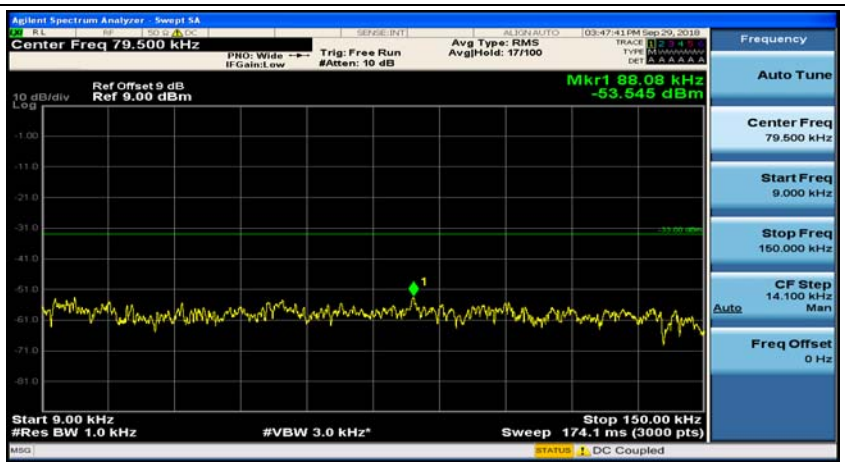
Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
Ref Offset 8.96 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.680 GHz
-26.315 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
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

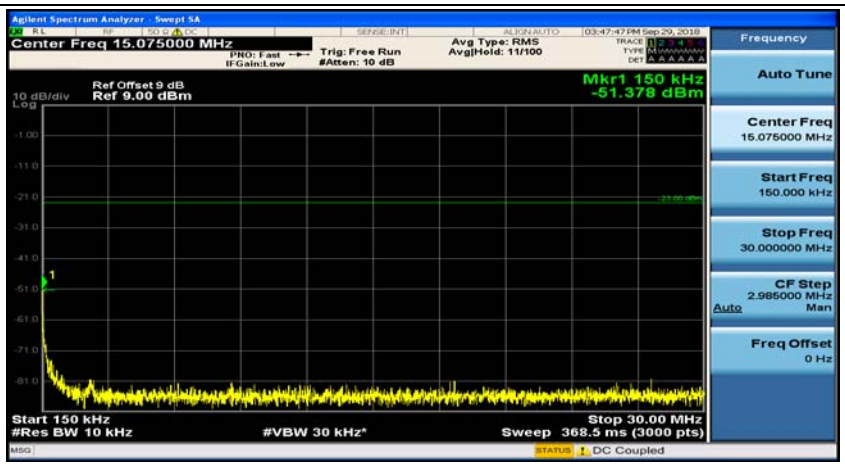
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0

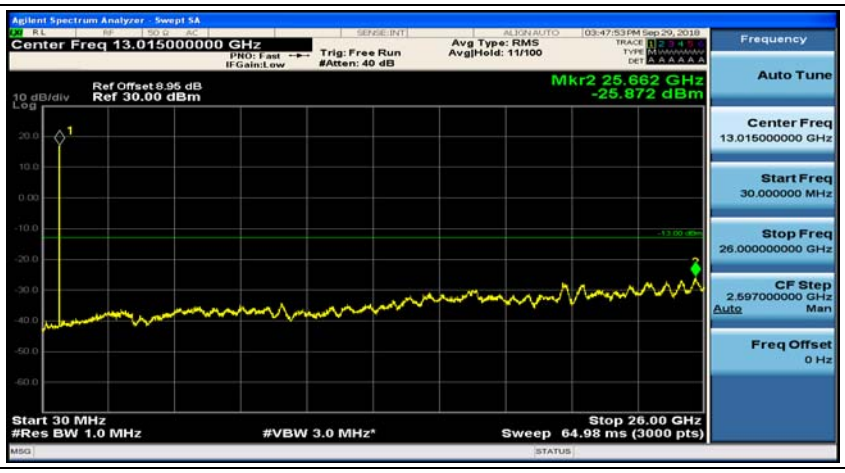




(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7

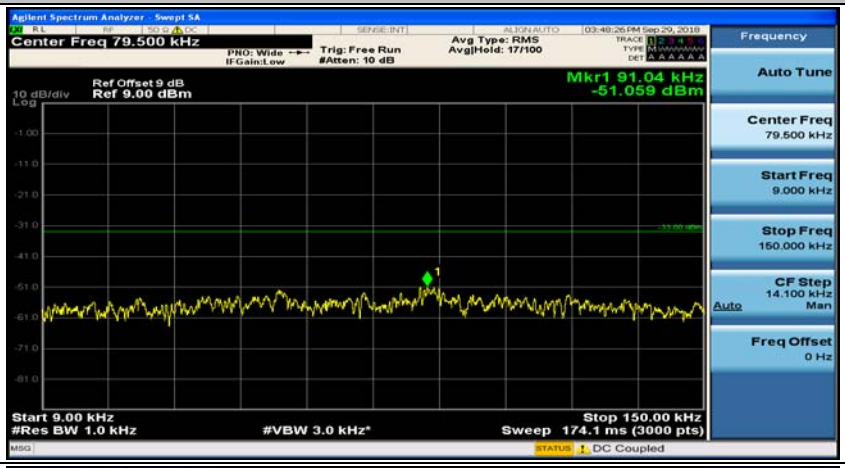

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
03:47:41 PM Sep 29, 2018
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 88.08 kHz
-53.545 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 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

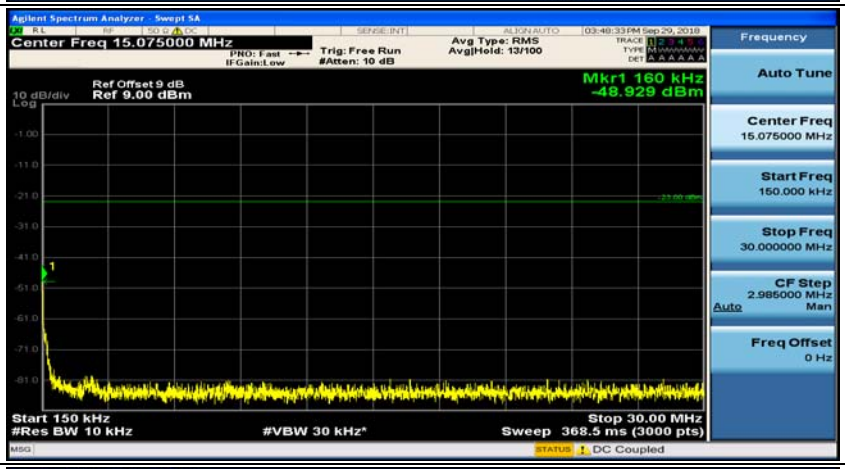

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 11/100
03:47:47 PM Sep 29, 2018
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-51.378 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 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

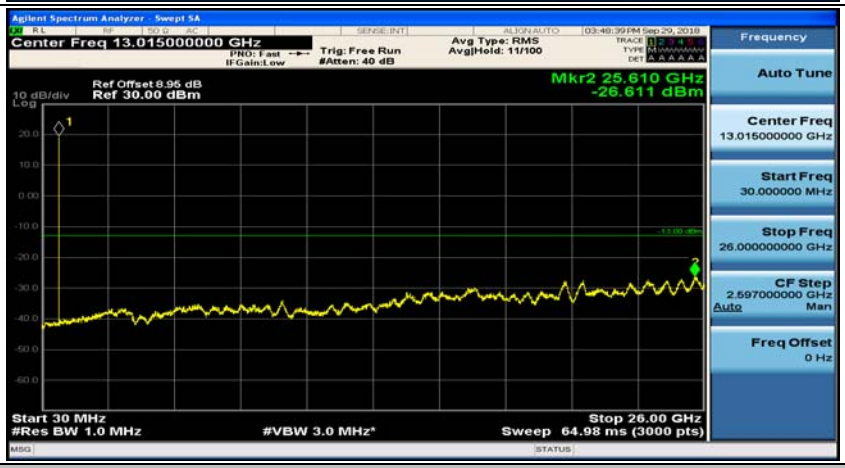

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
03:47:53 PM Sep 29, 2018
Ref Offset 8.96 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.662 GHz
-25.872 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
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: 5 MHz

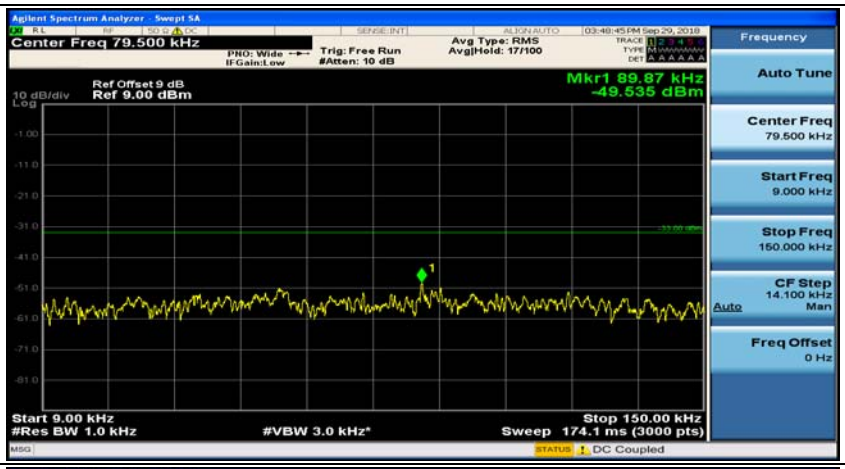
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

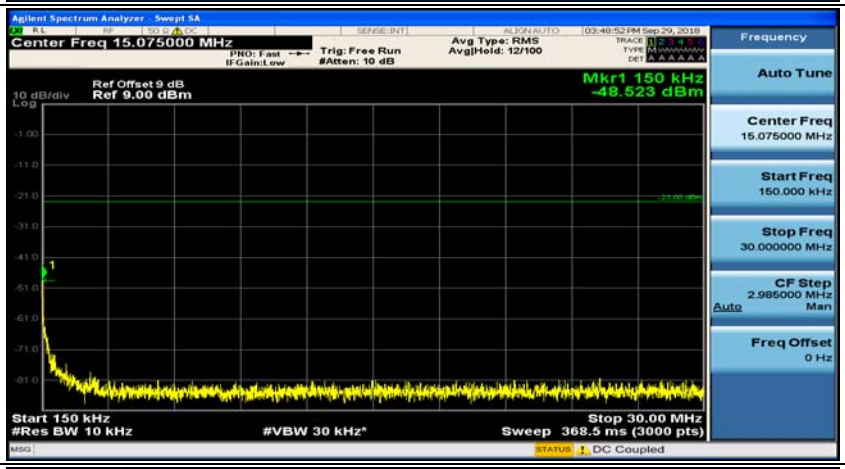


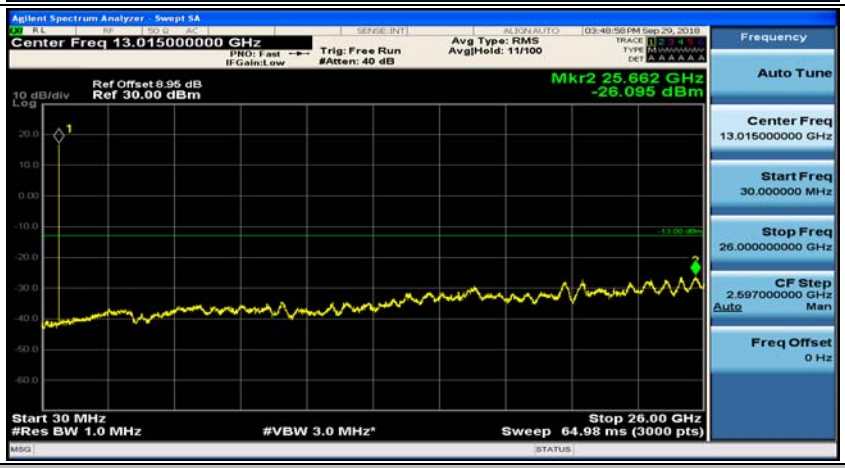




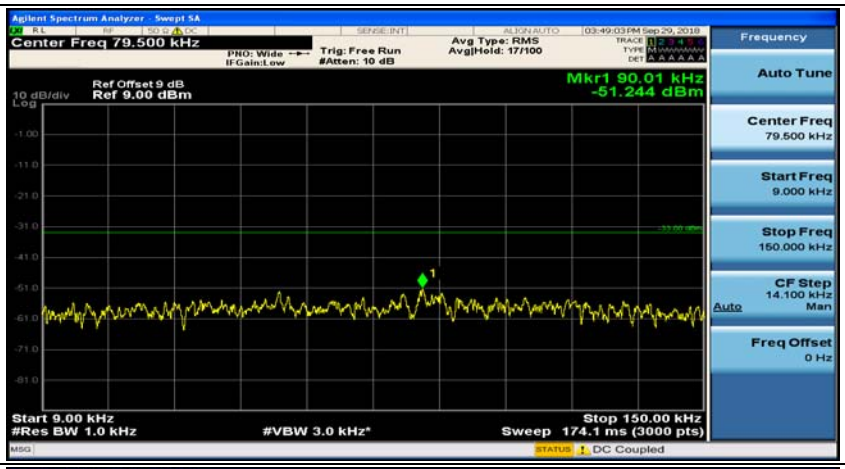
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12

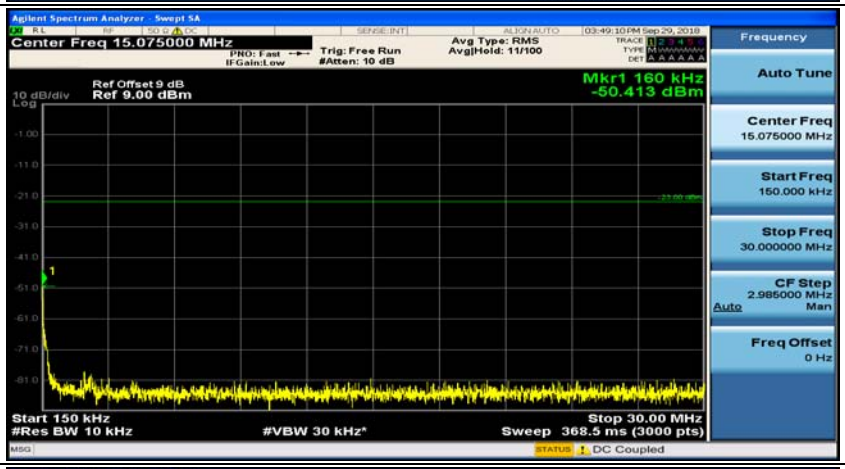


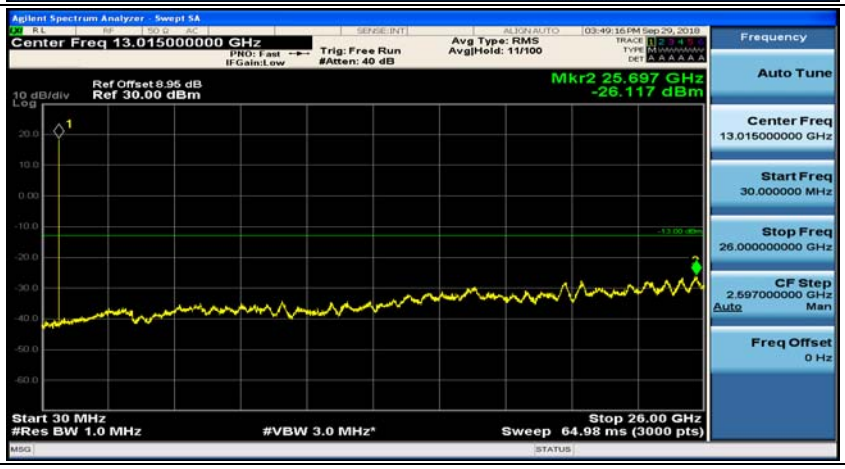


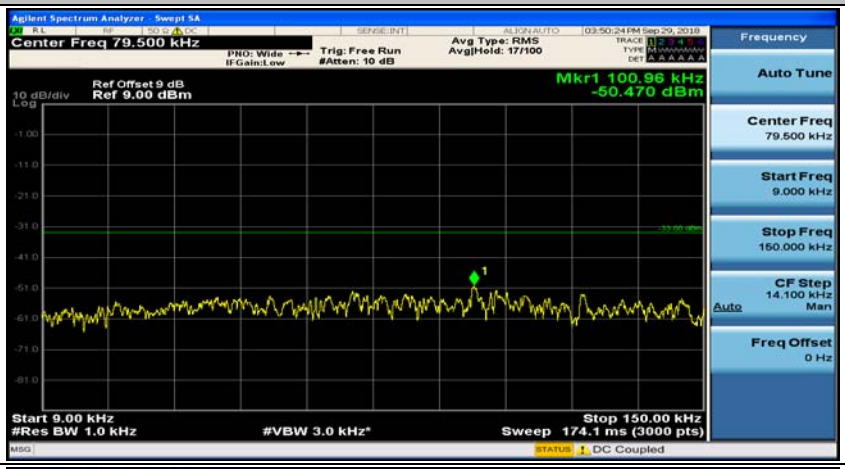
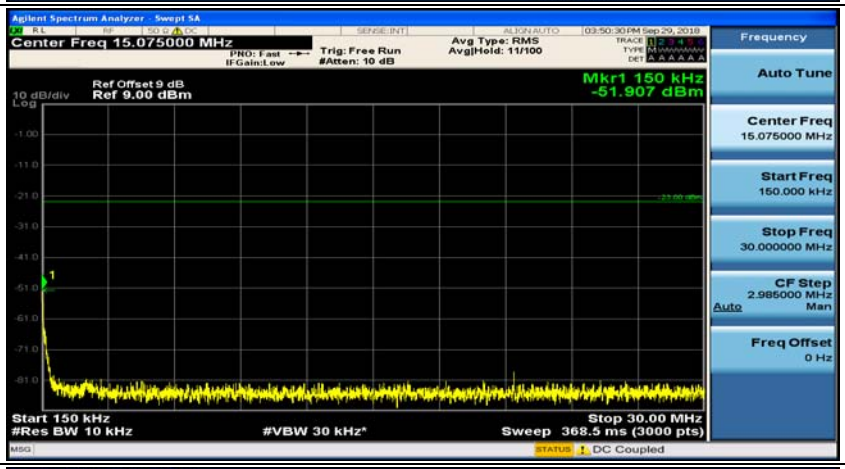
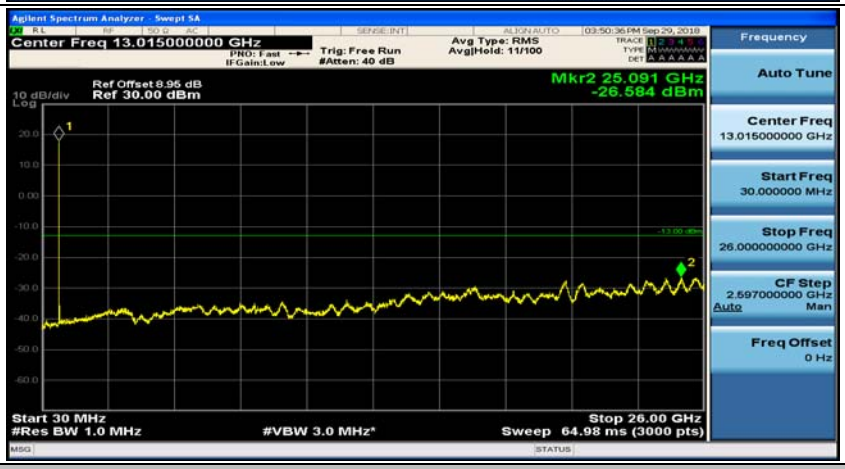


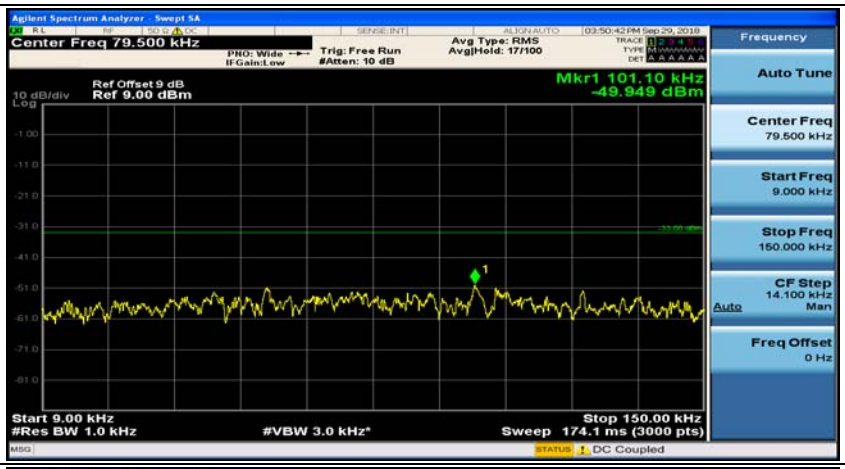
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24

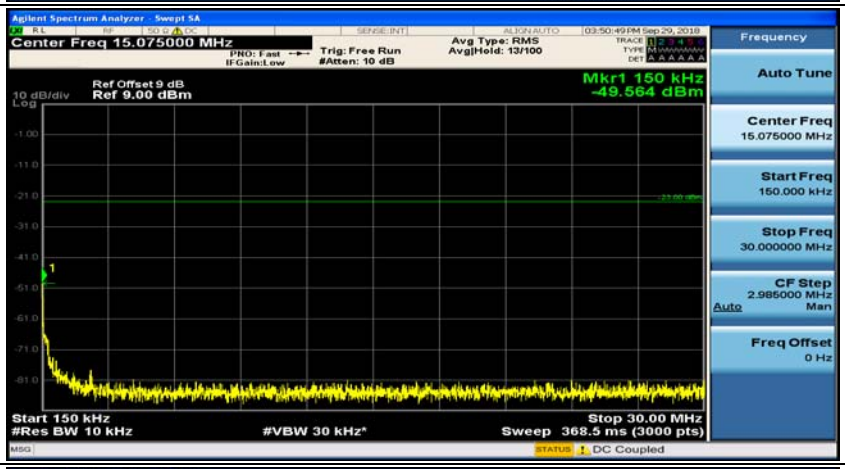

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 90.01 kHz
-51.244 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
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

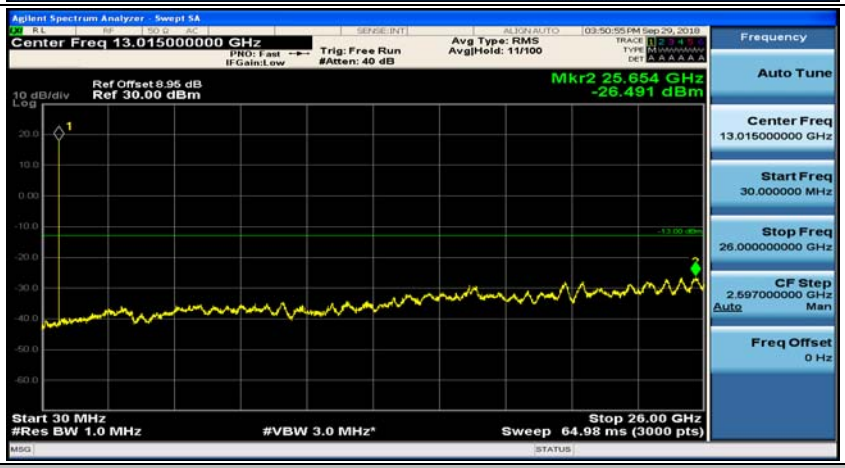

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 11/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 160 kHz
-50.413 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
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 25.697 GHz
-26.117 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

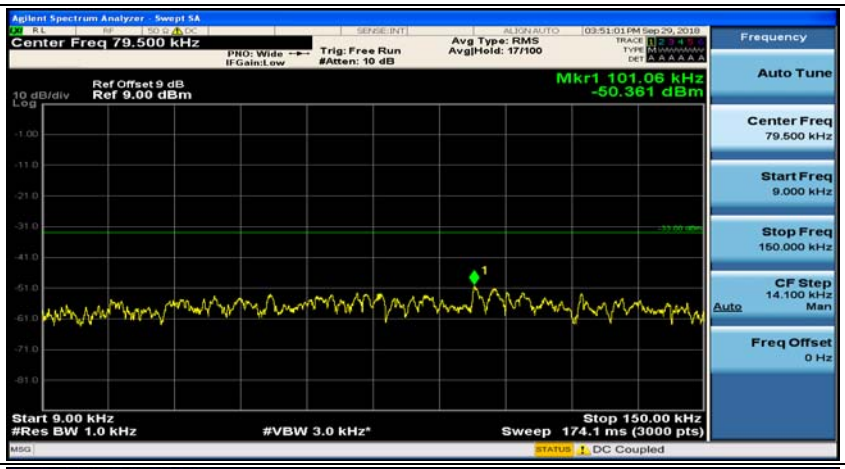
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

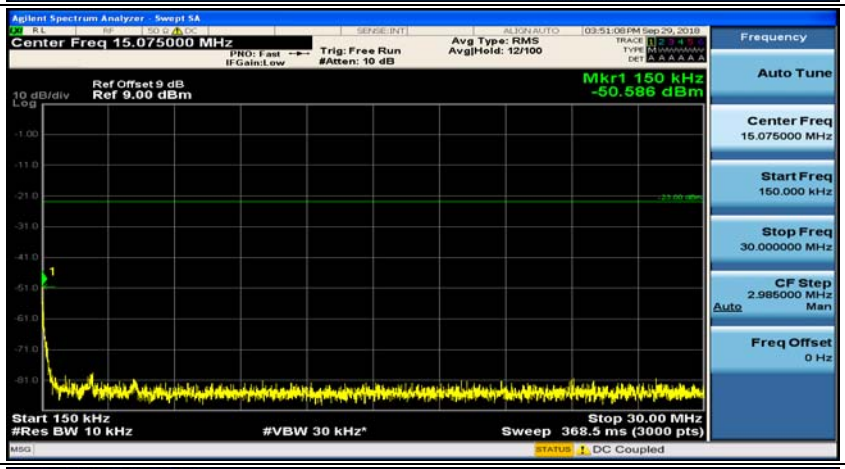


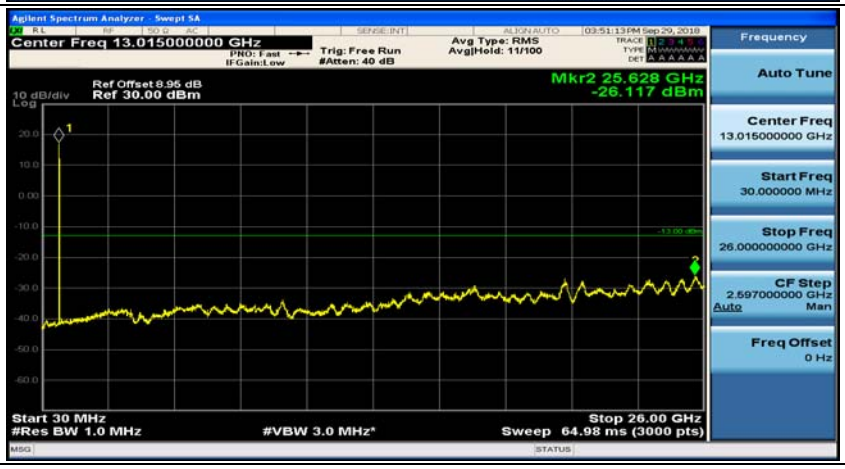




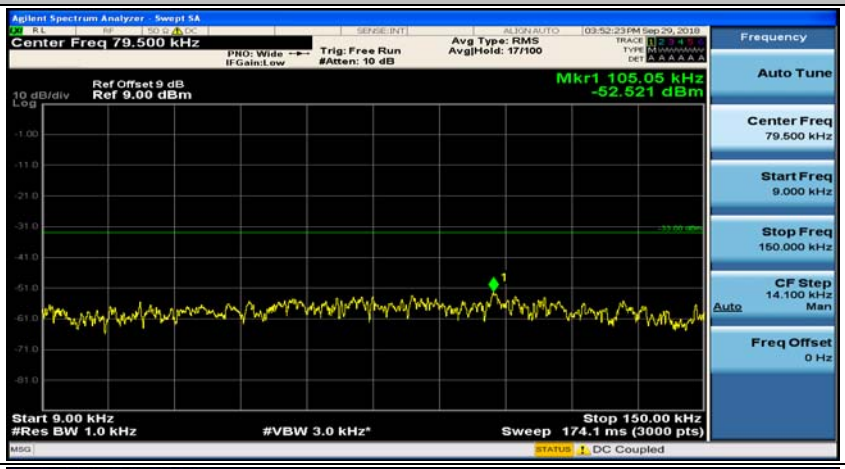
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

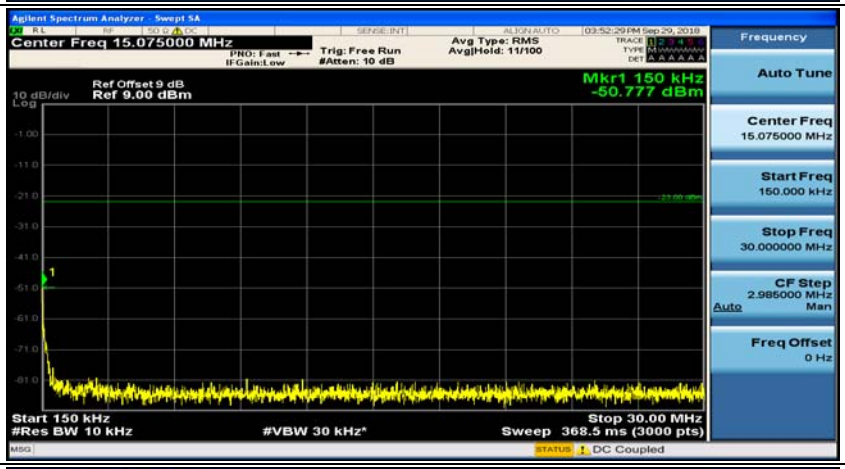

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
03:51:01 PM Sep 29, 2018
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 101.06 kHz
-50.361 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 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

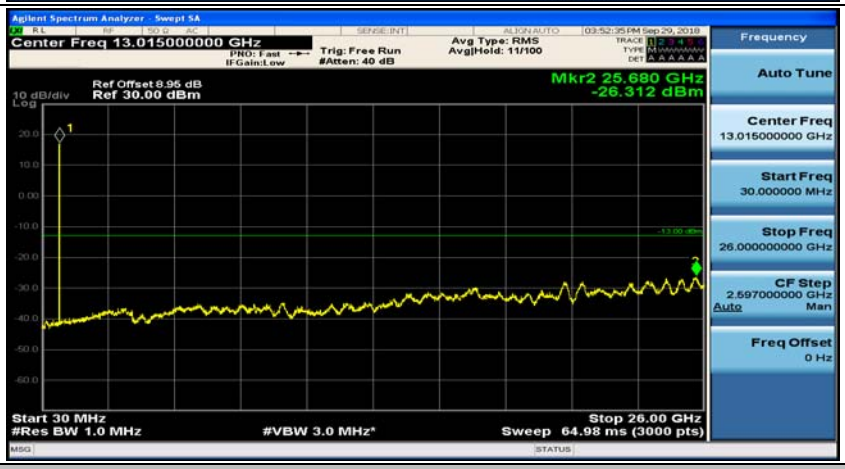

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 12/100
03:51:08 PM Sep 29, 2018
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-50.586 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 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
03:51:13 PM Sep 29, 2018
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.628 GHz
-26.117 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

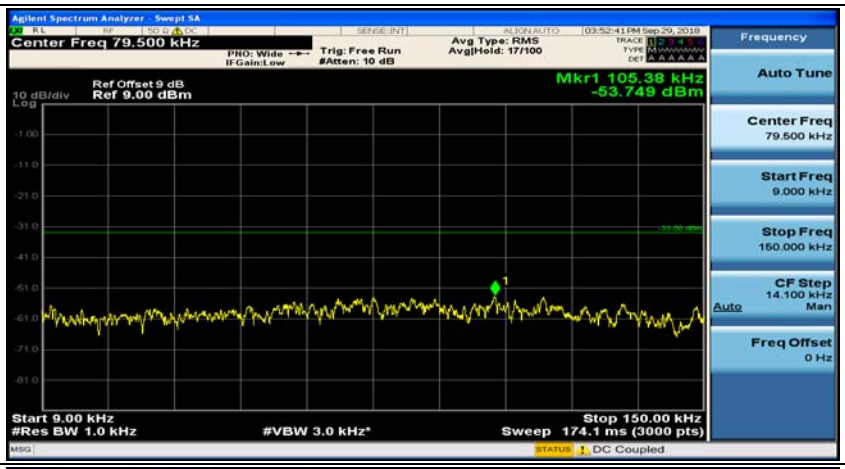
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

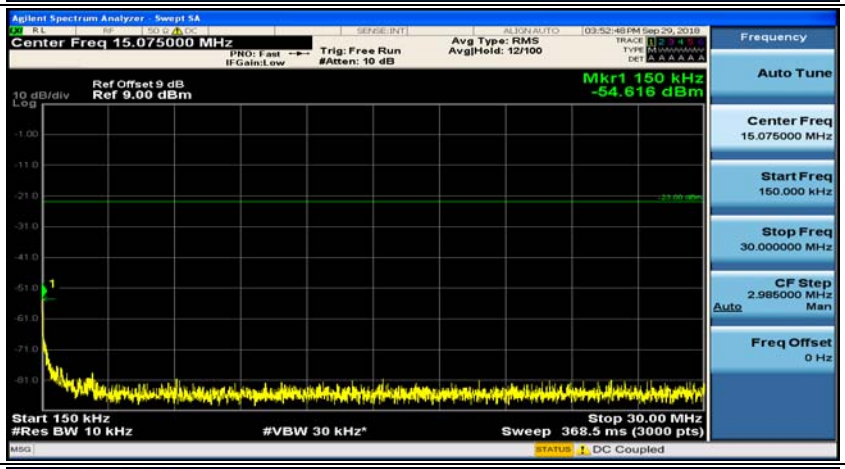


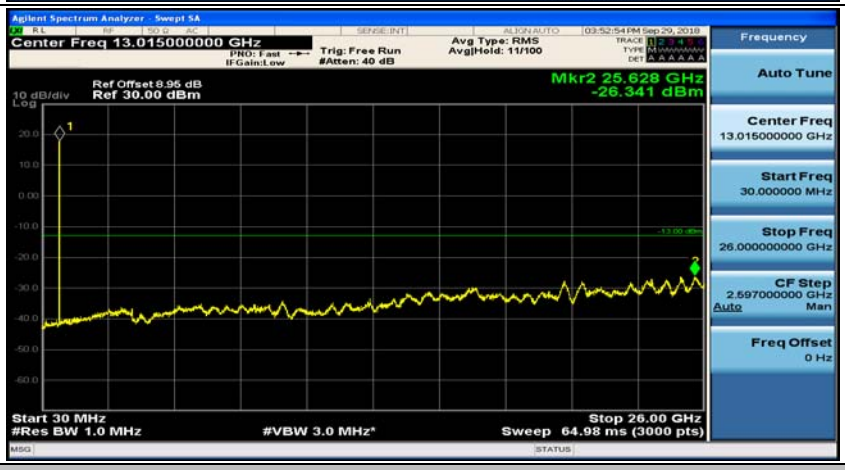




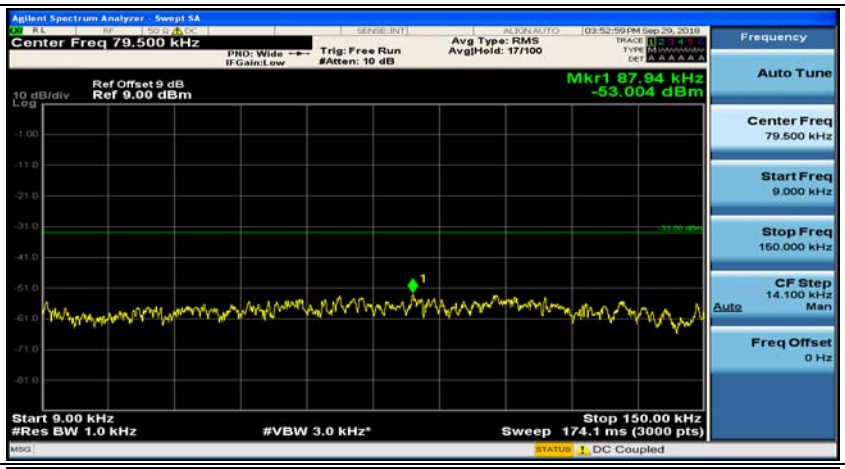
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

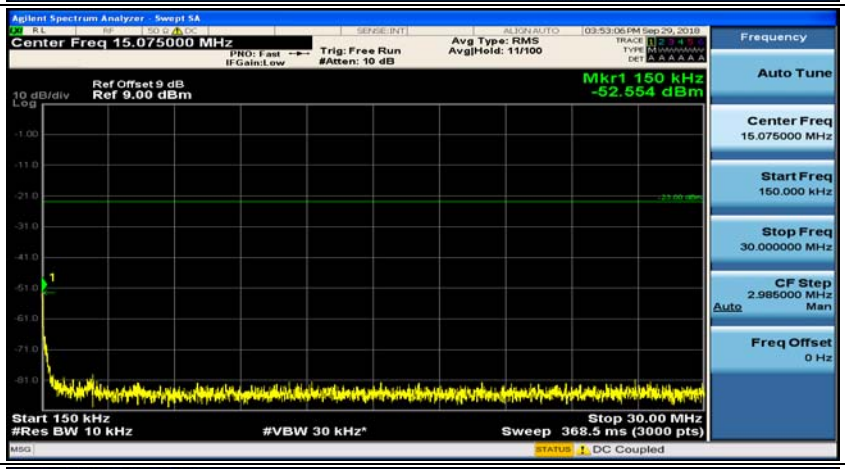


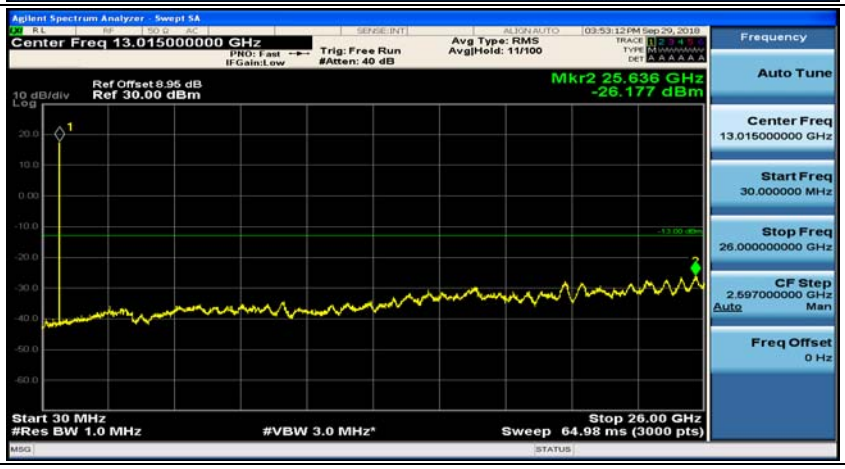


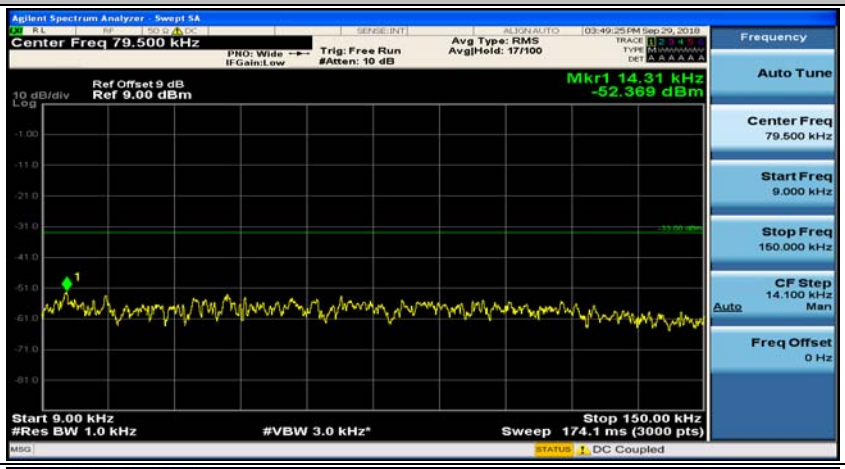
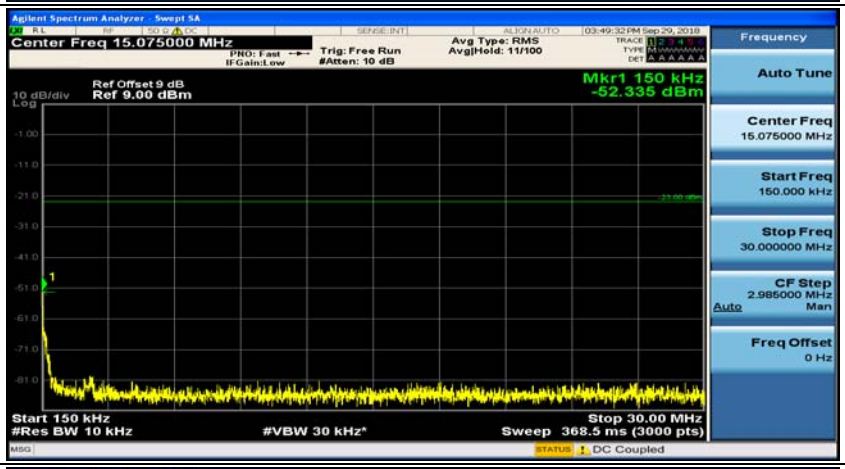
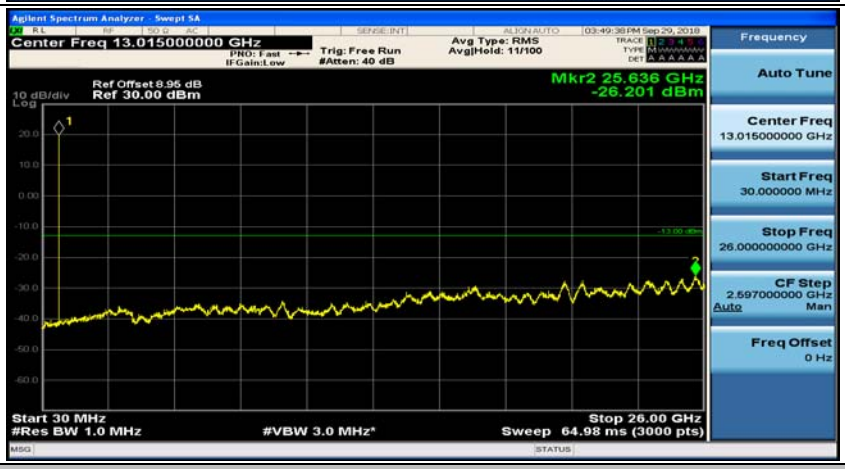


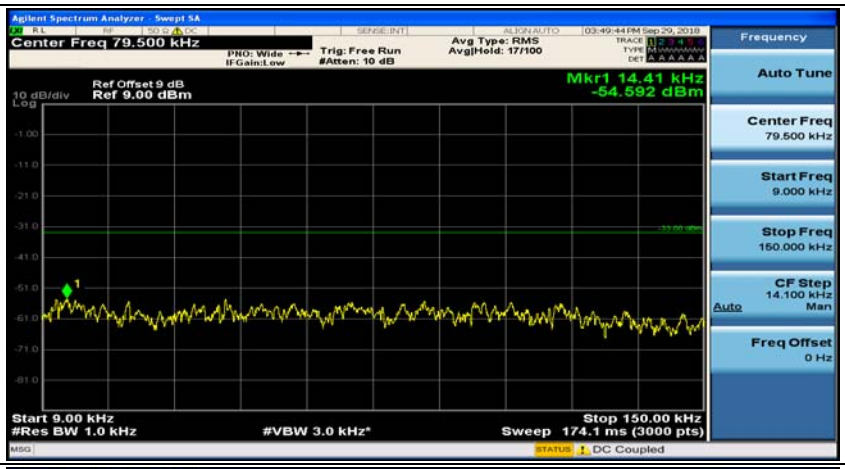
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24

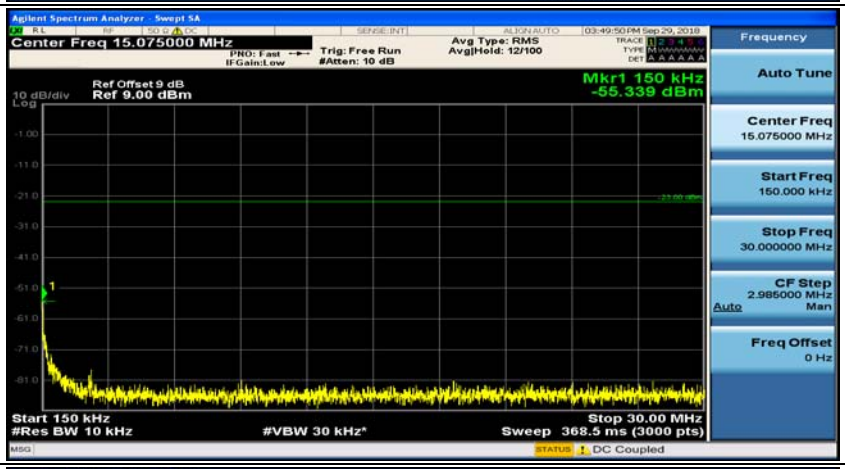

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
03:52:59 PM Sep 29, 2018
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 87.94 kHz
-53.004 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 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

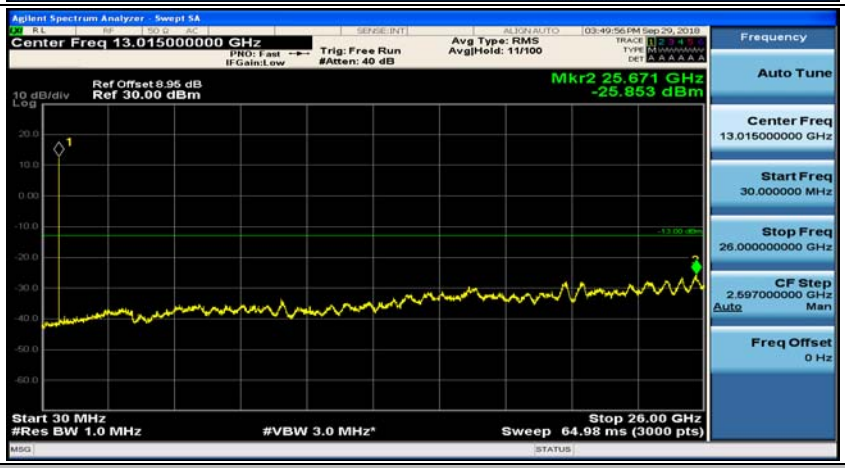

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 11/100
03:53:06 PM Sep 29, 2018
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-52.554 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 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
03:53:12 PM Sep 29, 2018
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.636 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

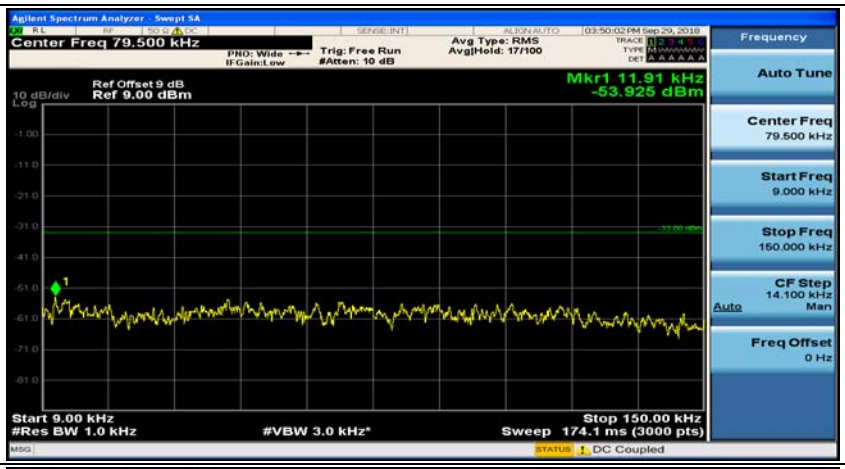
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12

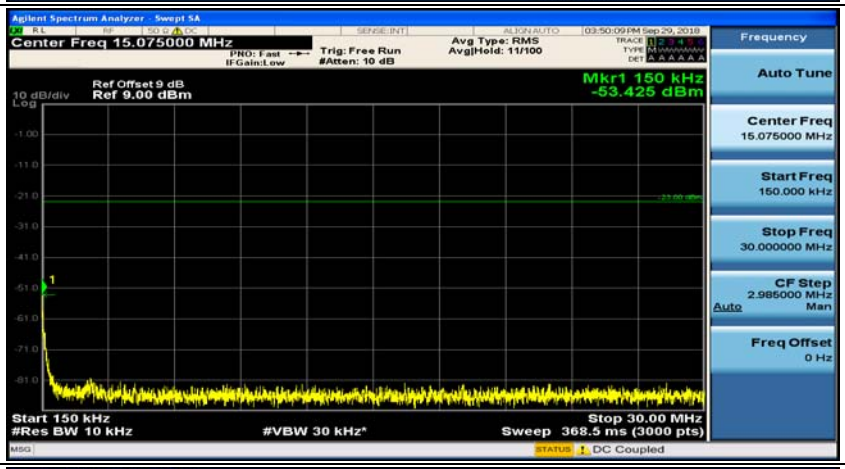


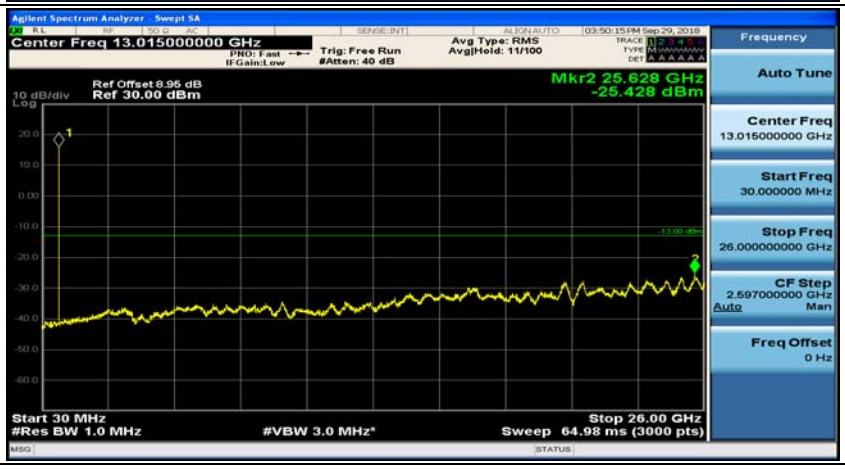




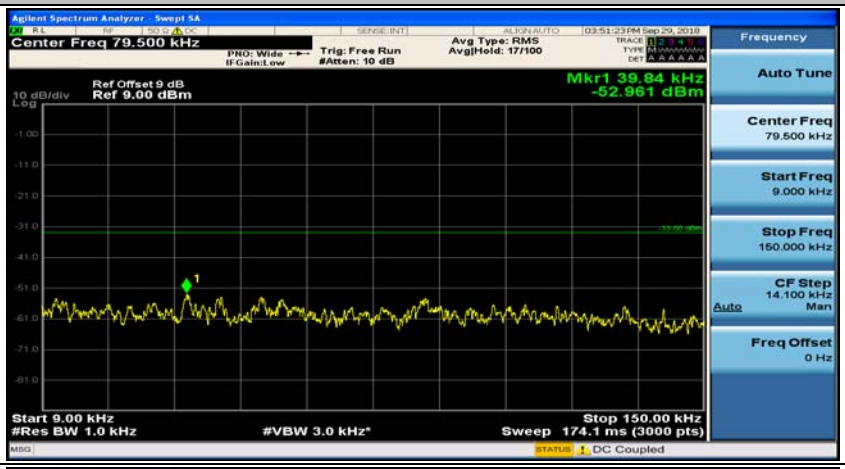
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24

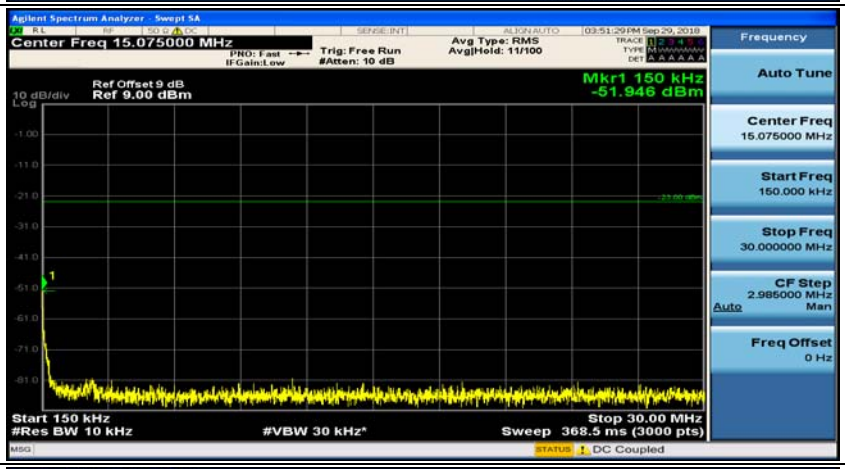

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
03:50:02 PM Sep 29, 2018
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 11.91 kHz
-53.925 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 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

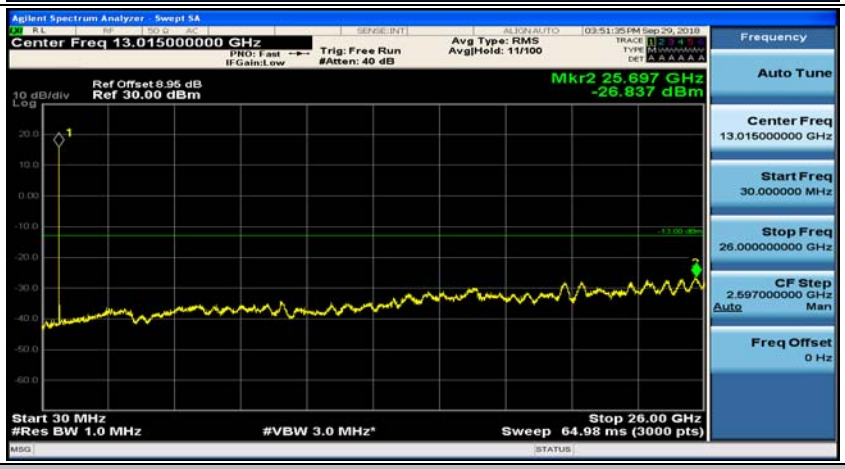

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 11/100
03:50:09 PM Sep 29, 2018
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-53.425 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 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
03:50:15 PM Sep 29, 2018
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.628 GHz
-25.428 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

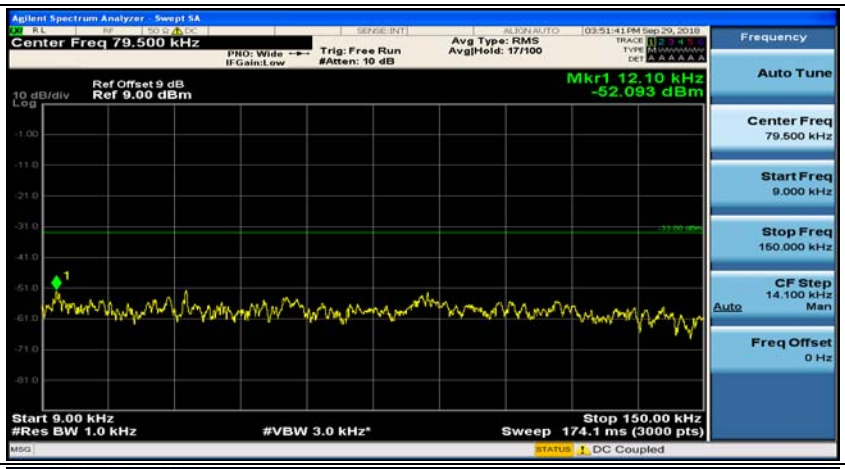
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

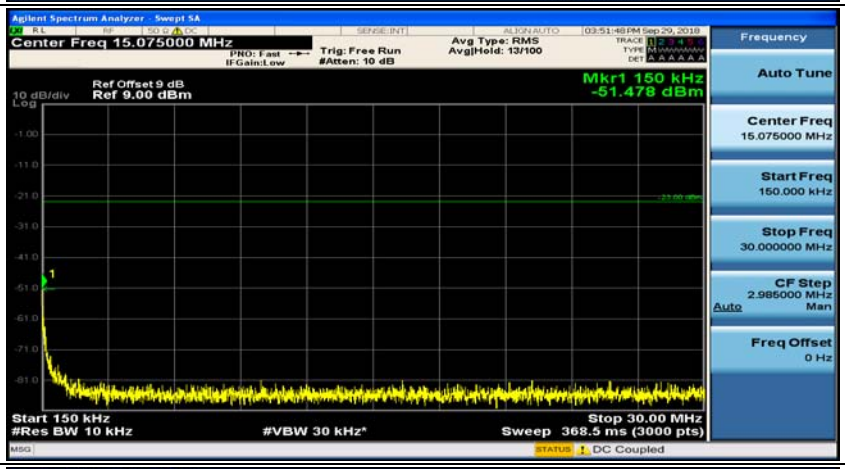


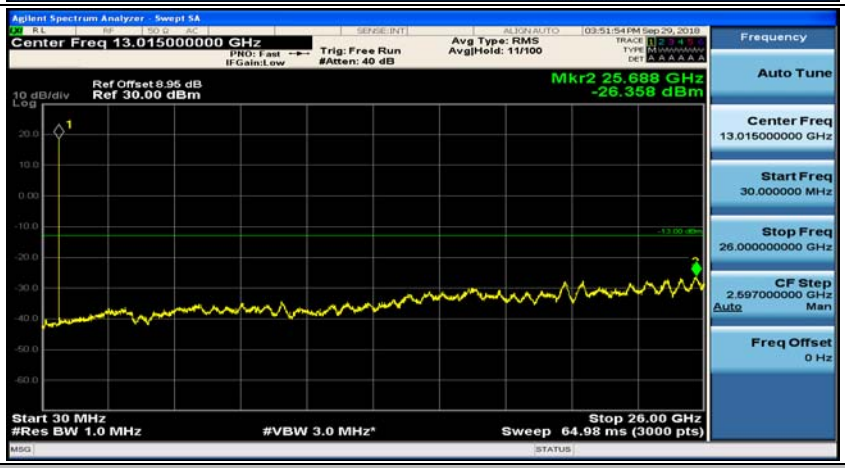




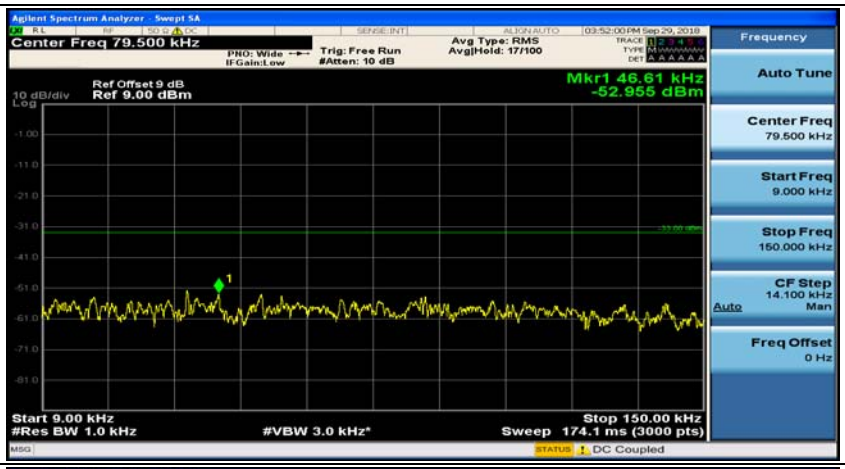
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

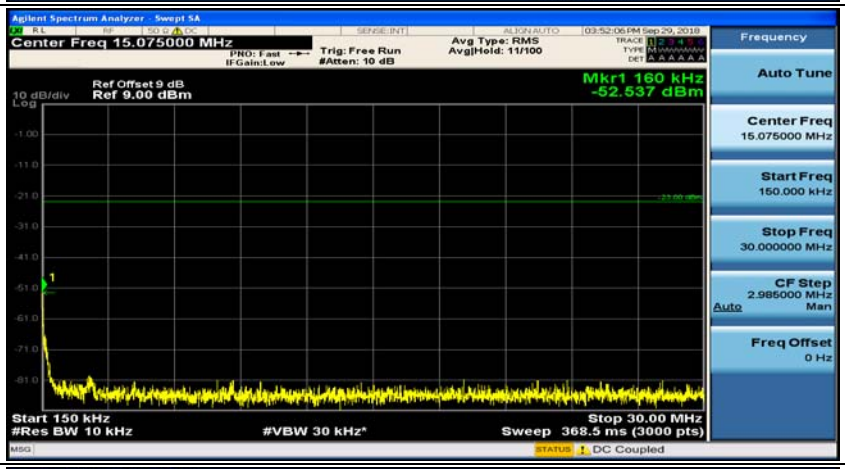


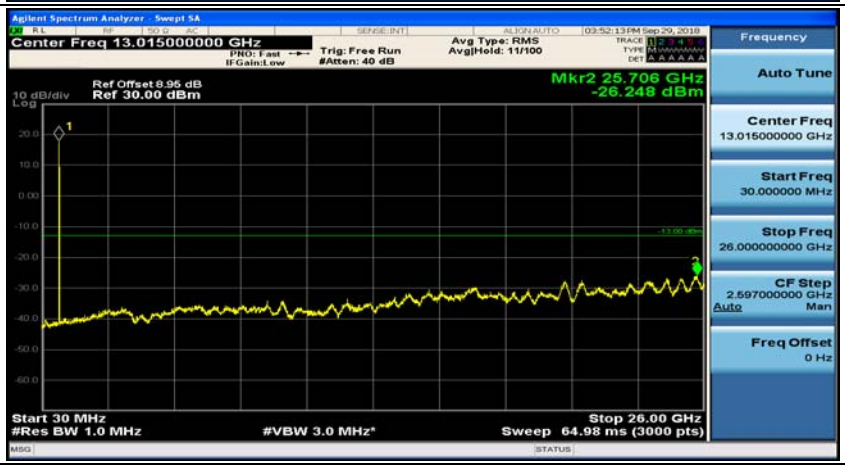


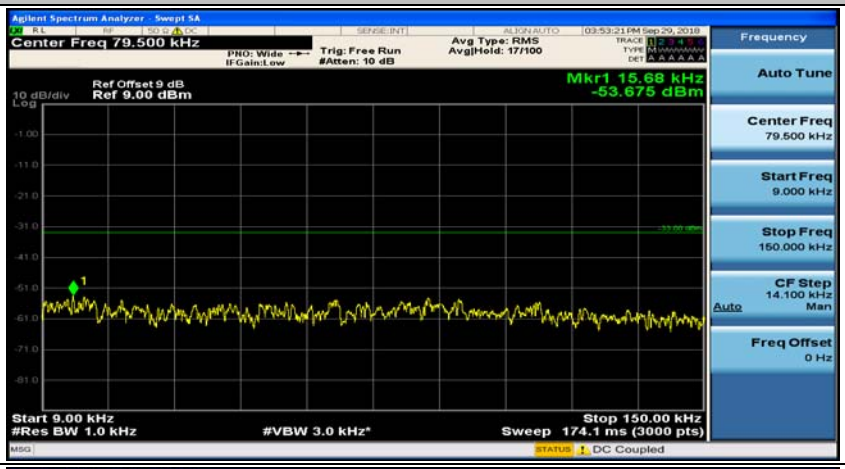
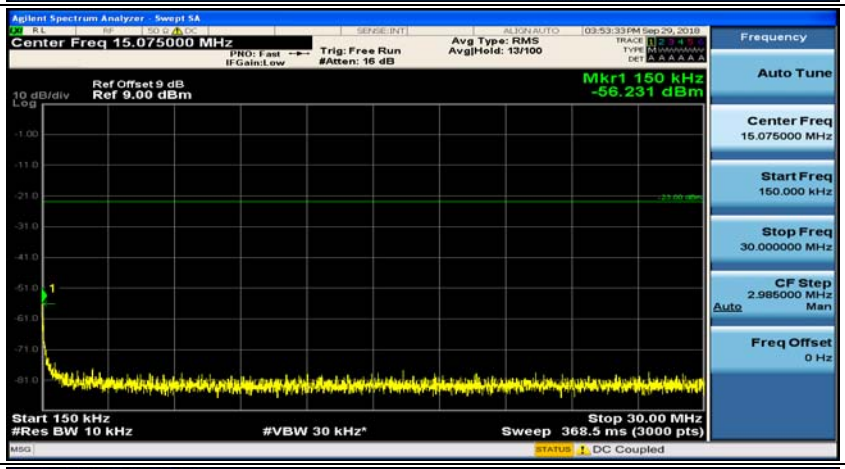
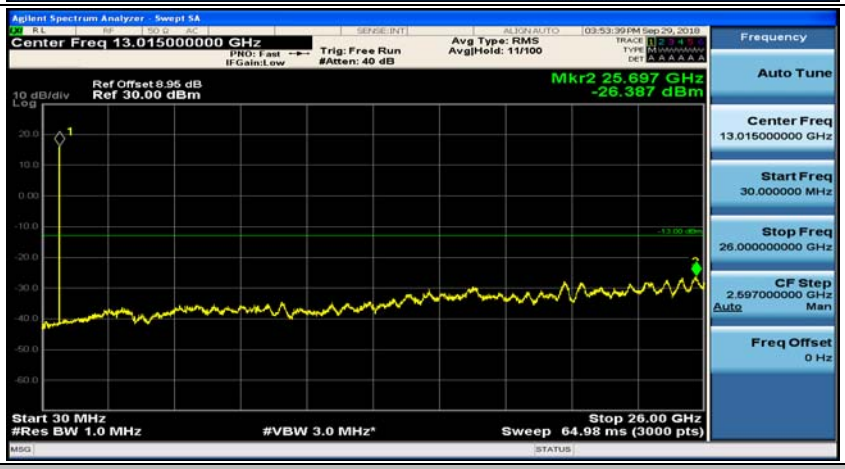


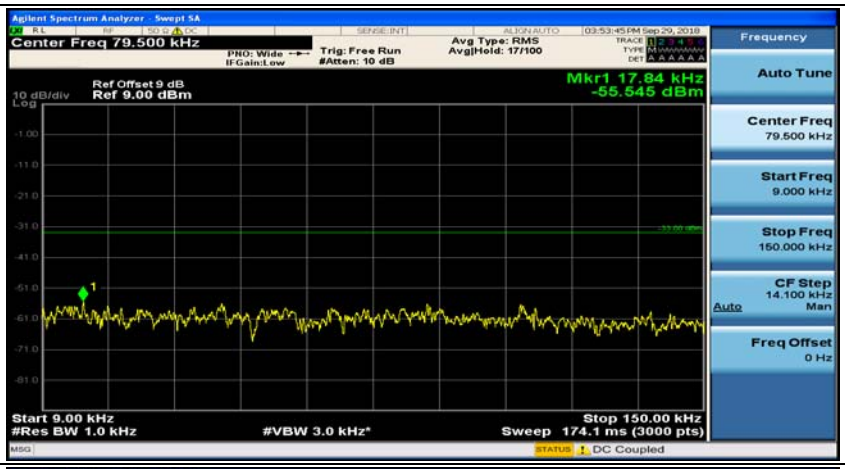
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24

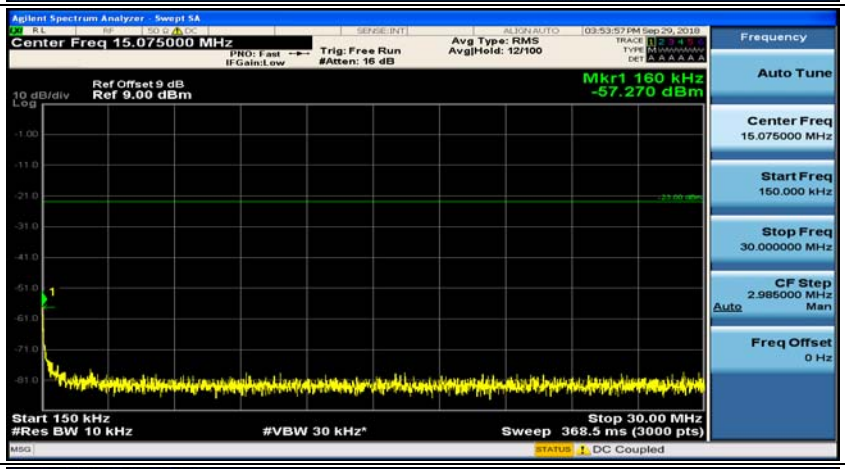

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
03:52:00 PM Sep 29, 2018
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 46.61 kHz
-52.955 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 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: 11/100
03:52:06 PM Sep 29, 2018
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 160 kHz
-52.537 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

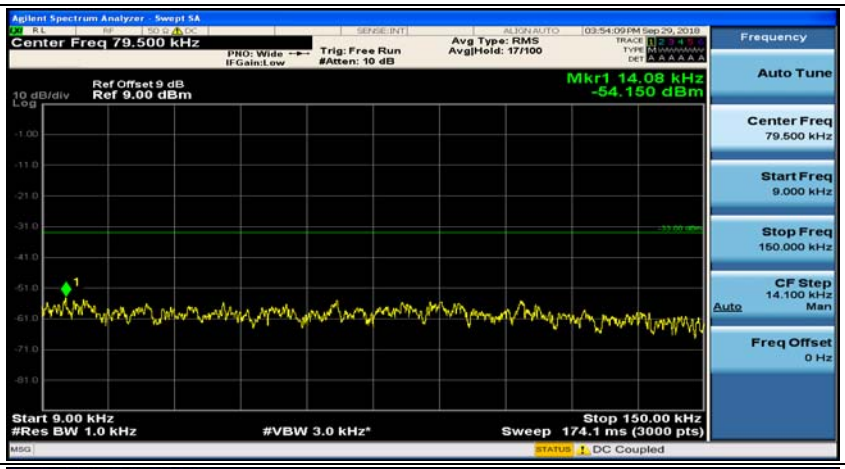

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
03:52:13 PM Sep 29, 2018
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.706 GHz
-26.248 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
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

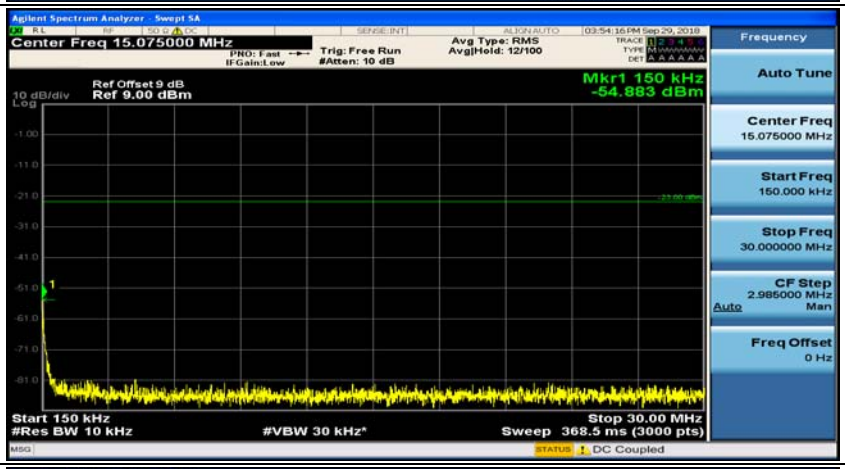
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

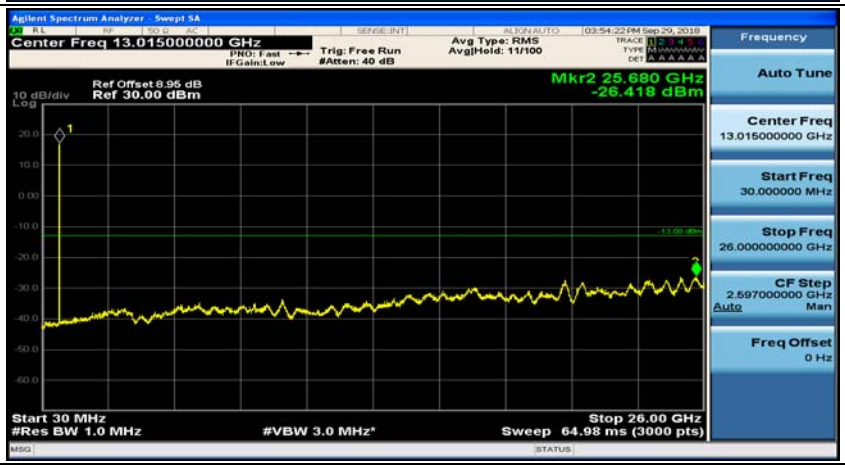




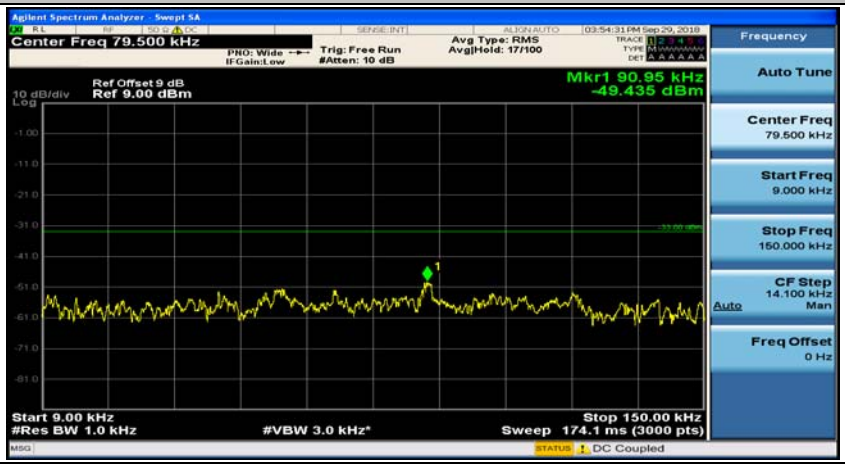
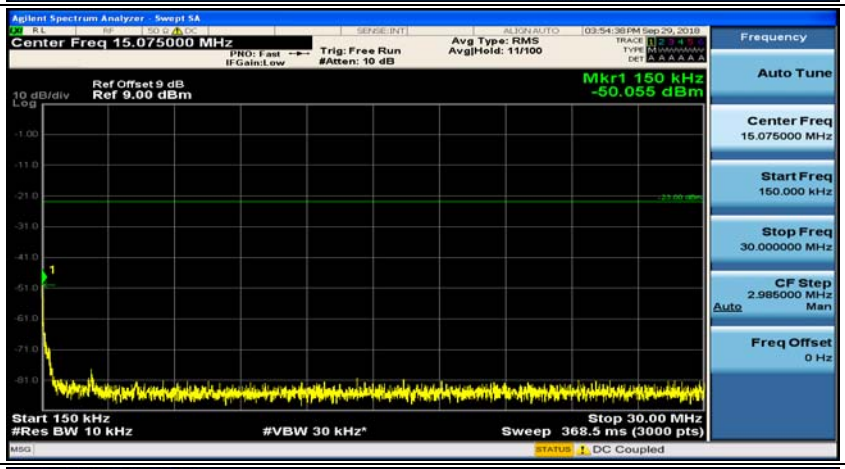
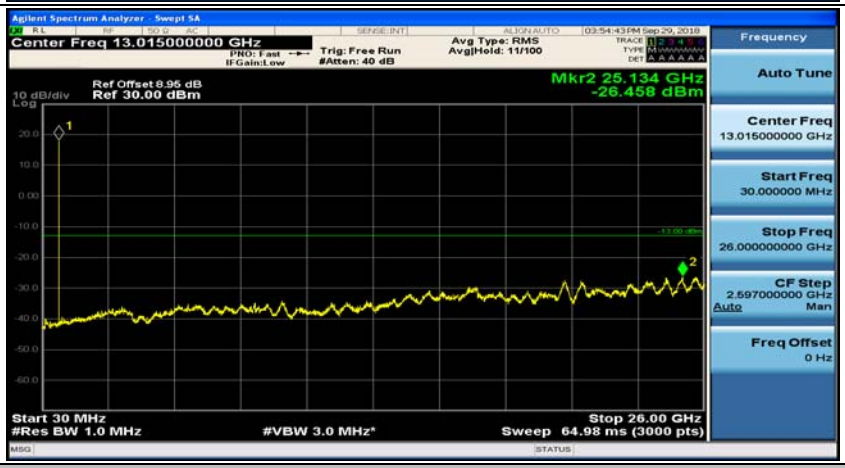
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24

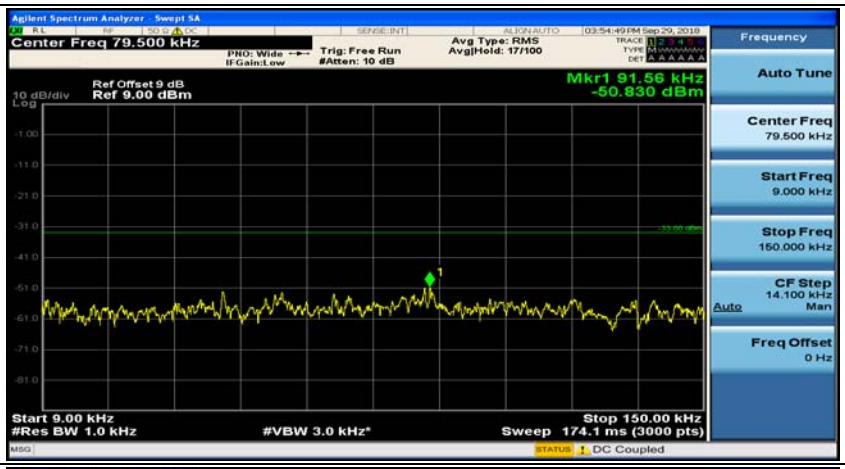

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
03:54:09 PM Sep 29, 2018
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 14.08 kHz
-54.150 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 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

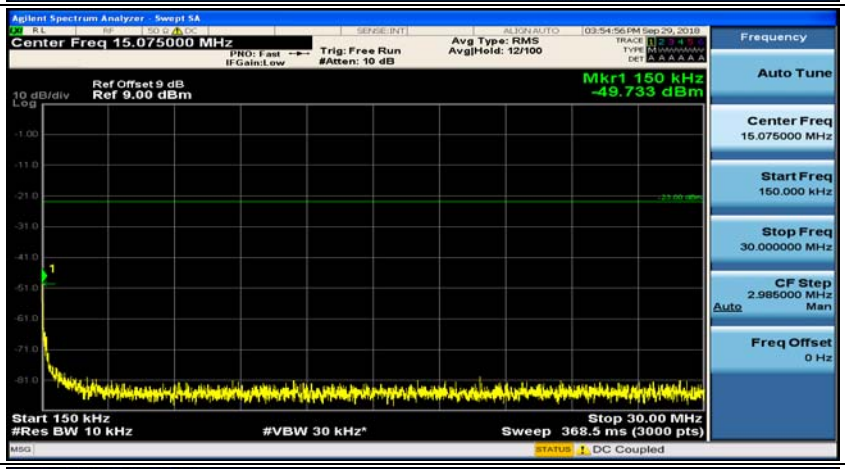

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 12/100
03:54:16 PM Sep 29, 2018
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-54.883 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 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

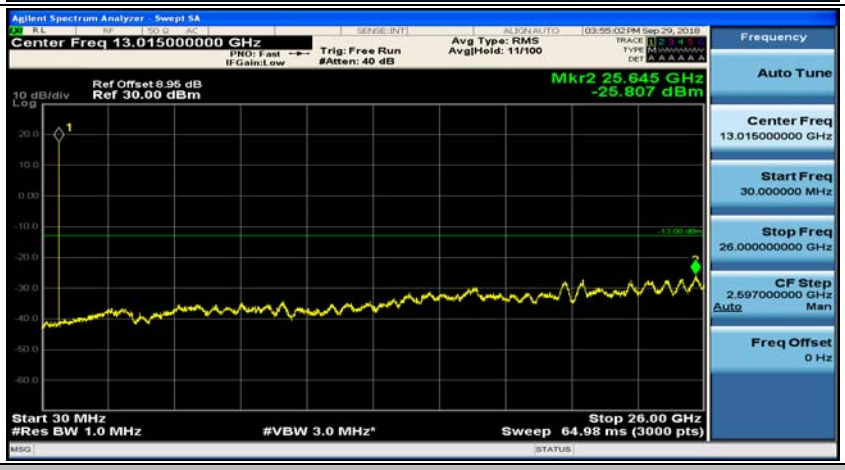

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
03:54:22 PM Sep 29, 2018
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.680 GHz
-26.418 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
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: 10 MHz

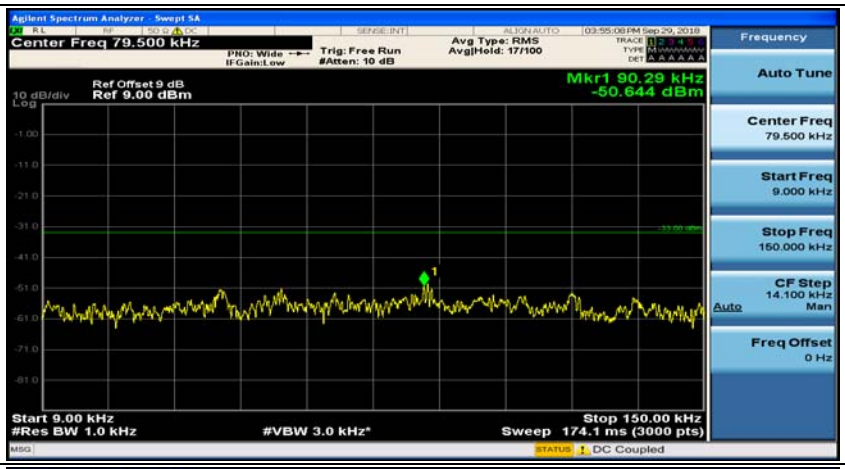
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24

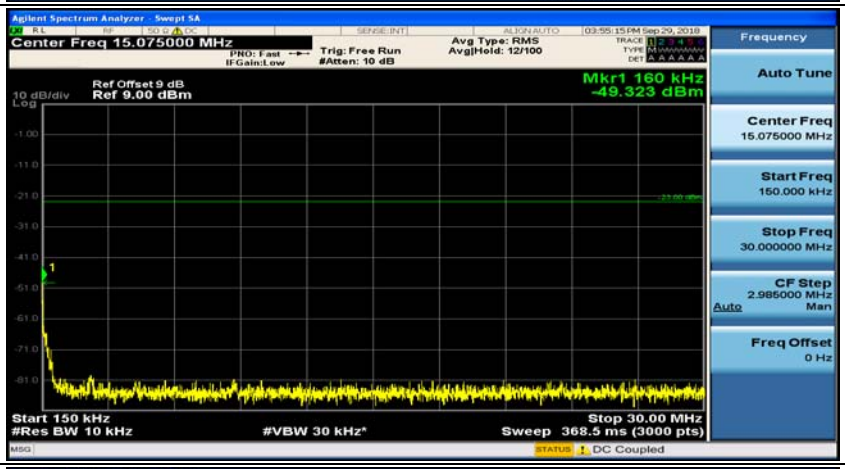


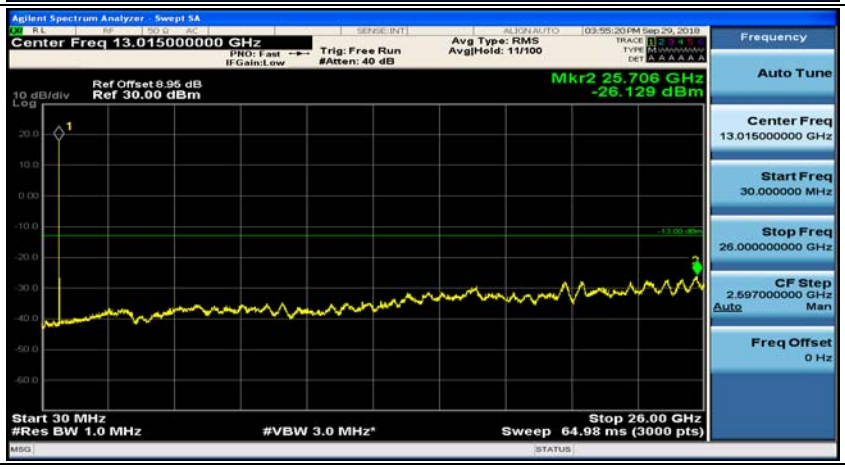


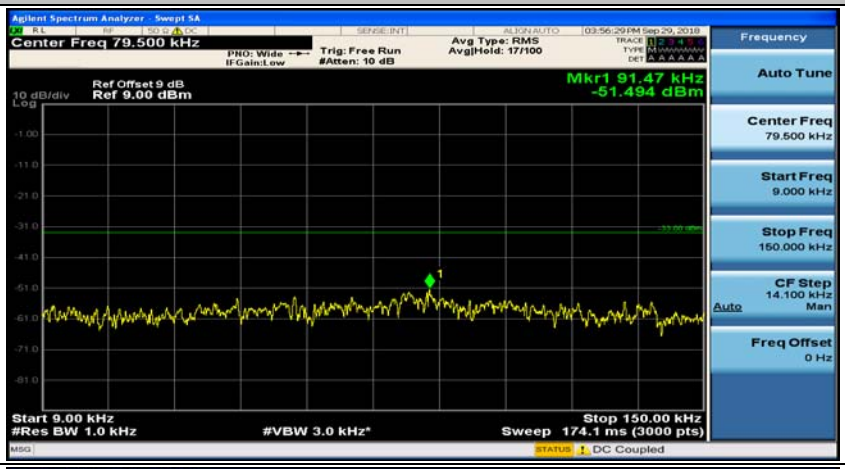
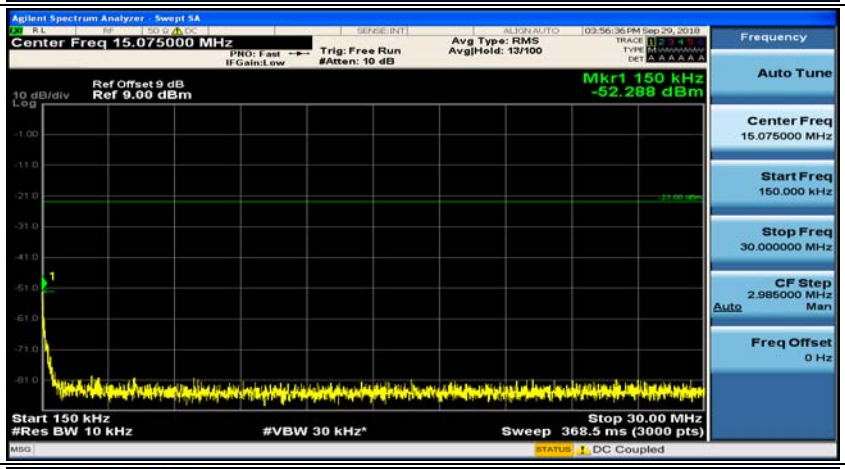
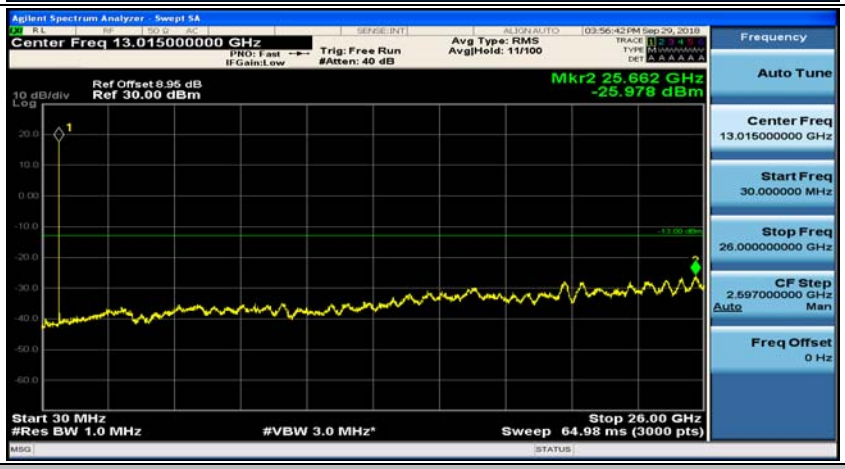


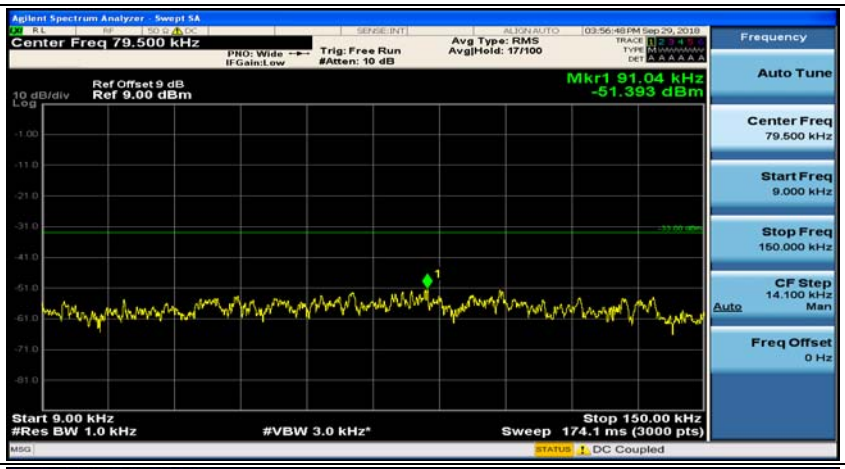
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49

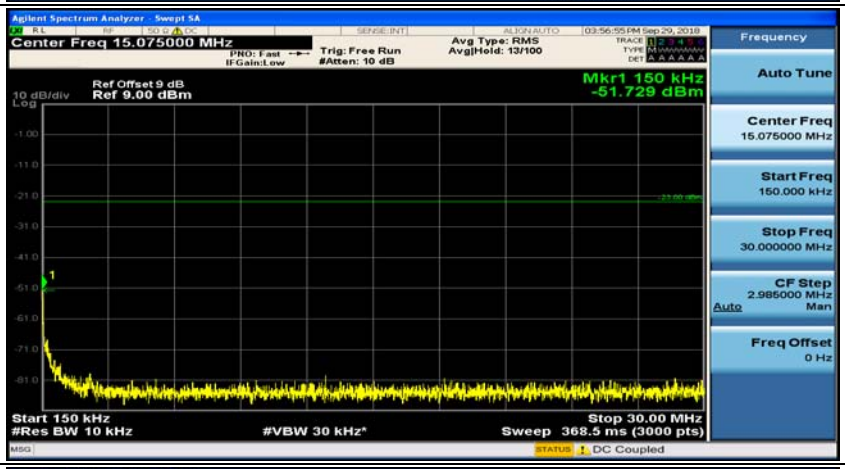

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 90.29 kHz
-50.644 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
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
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 160 kHz
-49.323 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

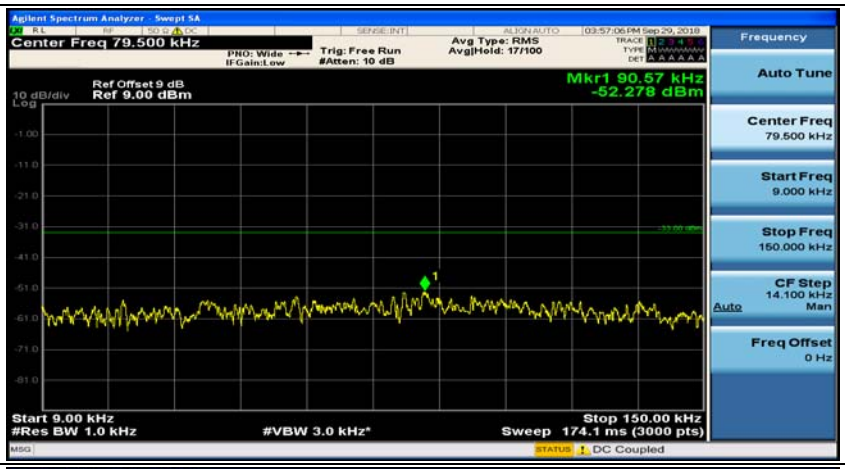

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.706 GHz
-26.129 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
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

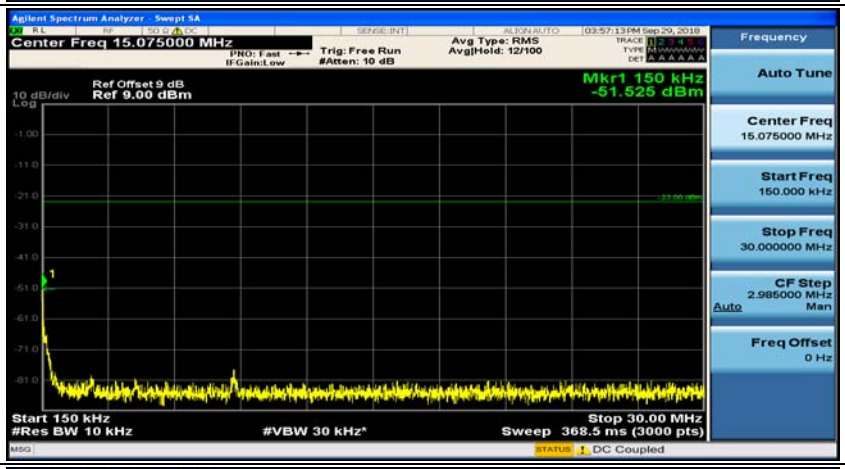
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24

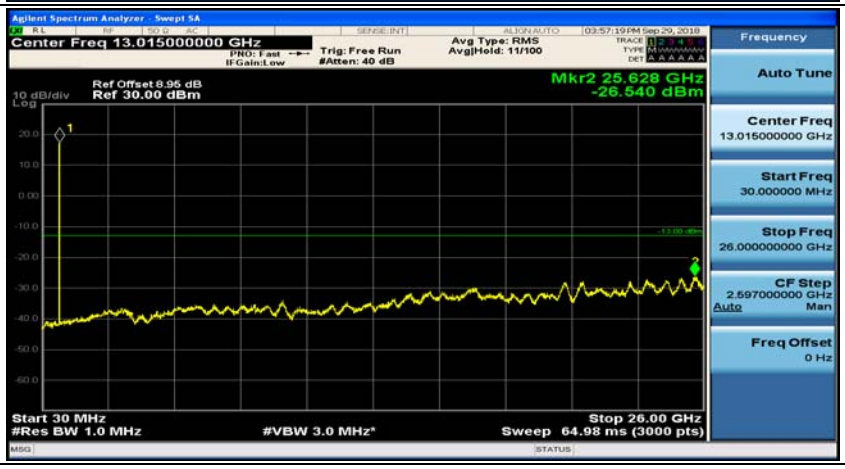


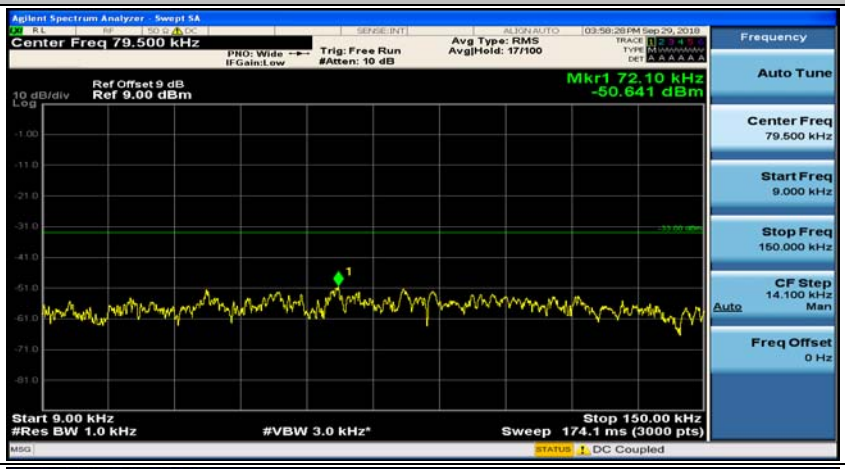
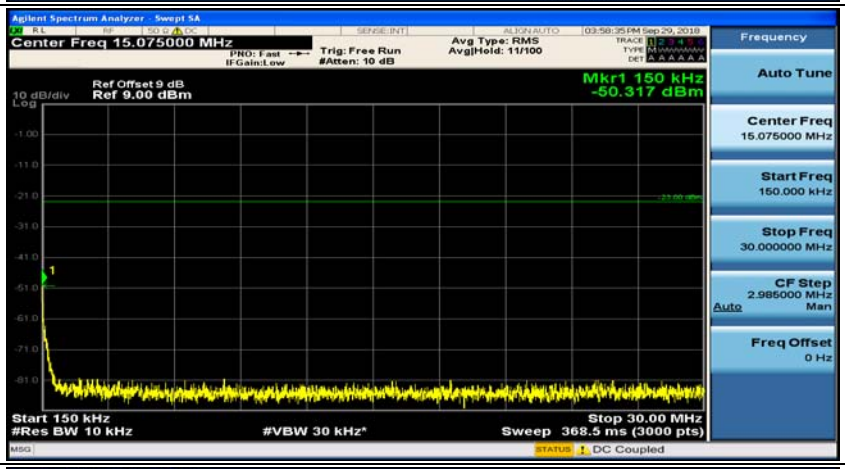
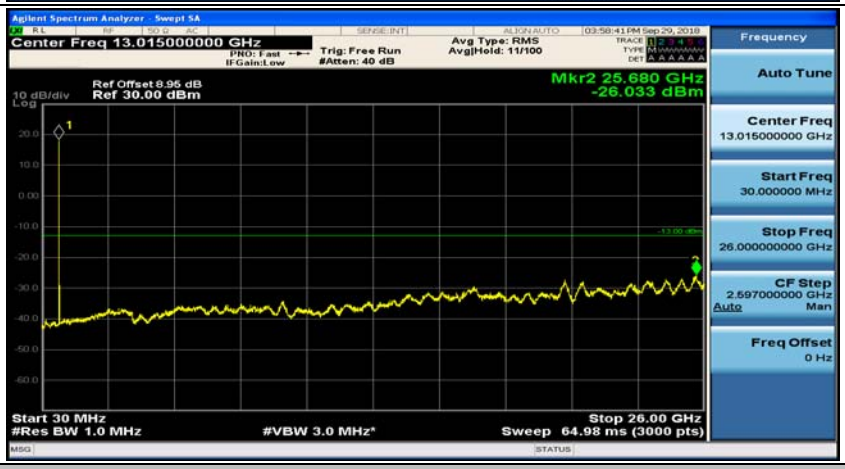


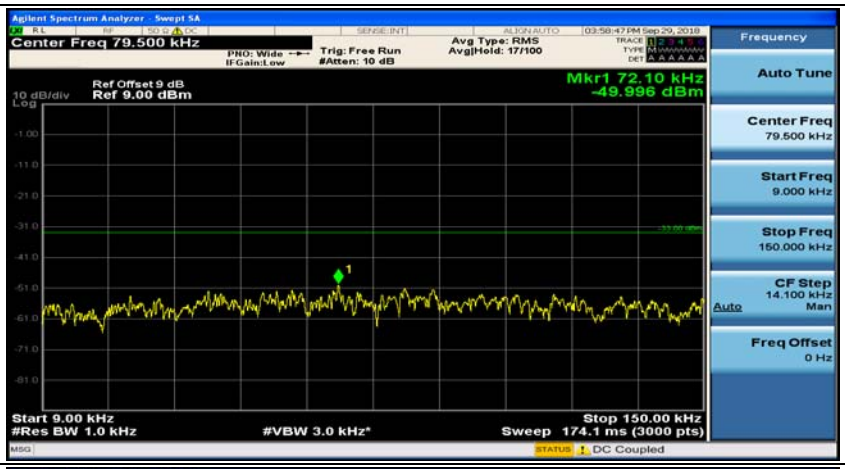
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49

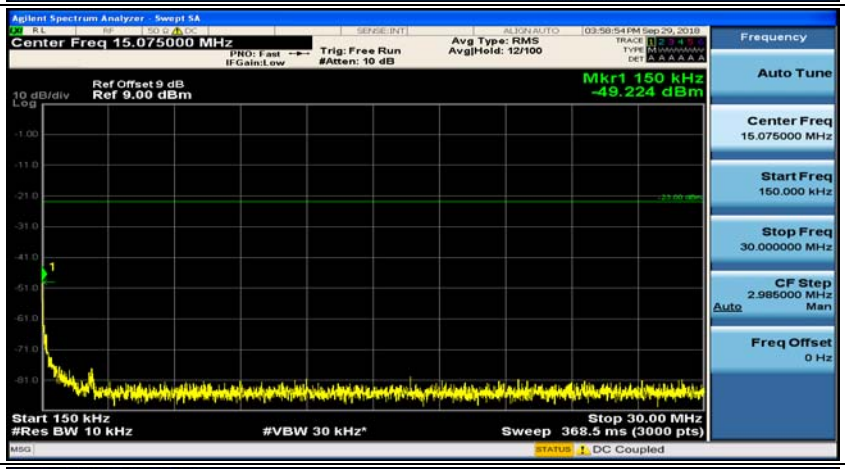

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
03:57:06 PM Sep 29, 2018
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 90.57 kHz
-52.278 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 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

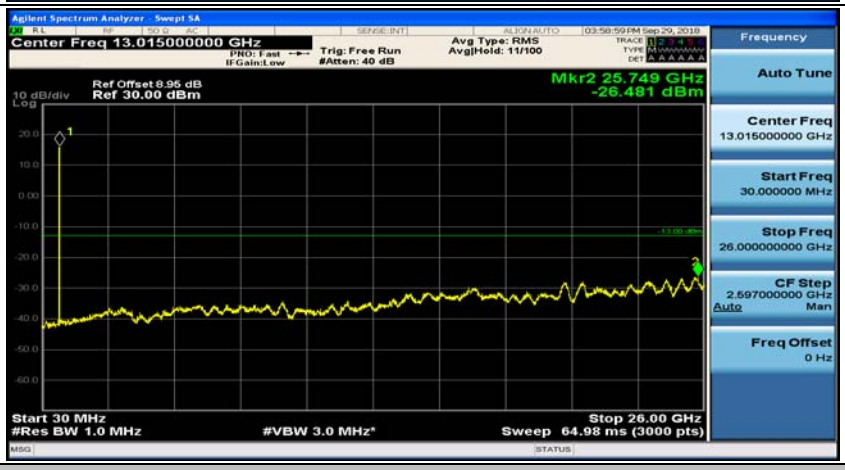

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 12/100
03:57:13 PM Sep 29, 2018
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-51.525 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 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
03:57:19 PM Sep 29, 2018
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.628 GHz
-26.540 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

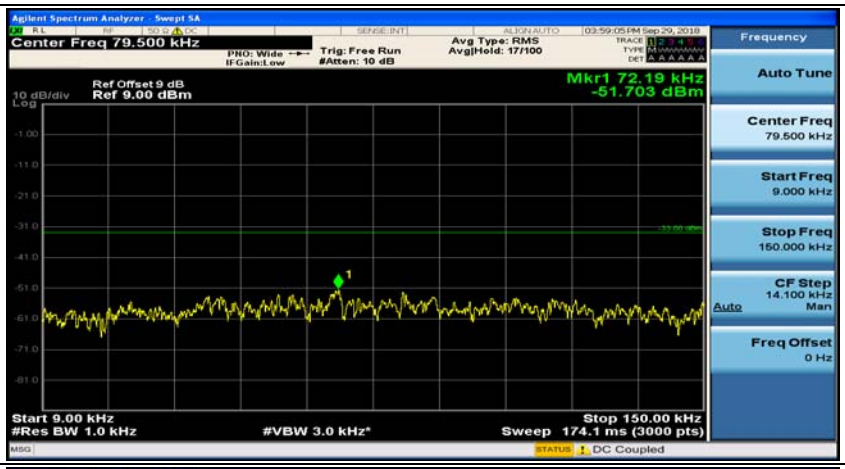
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24

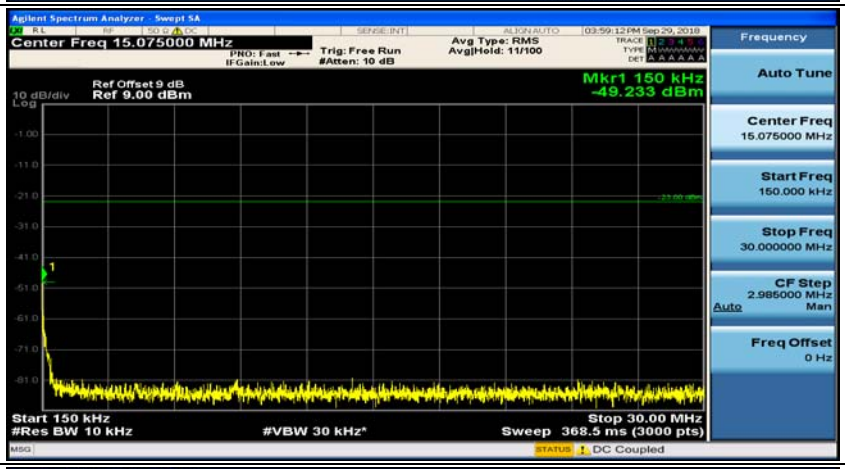


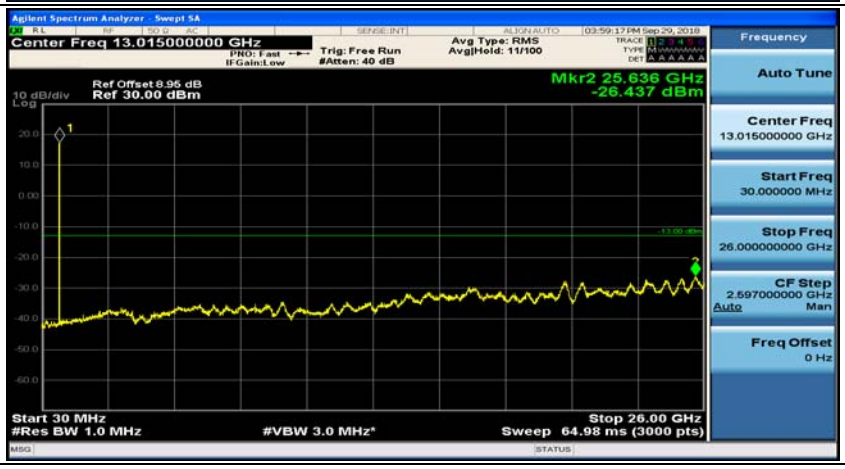


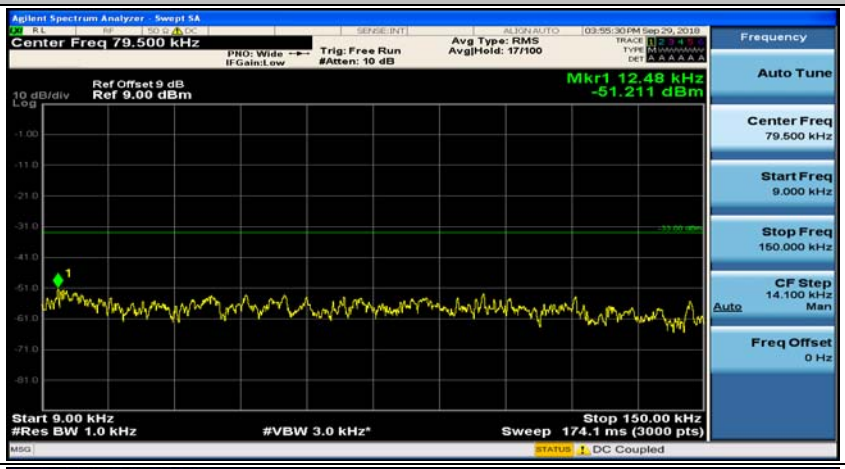
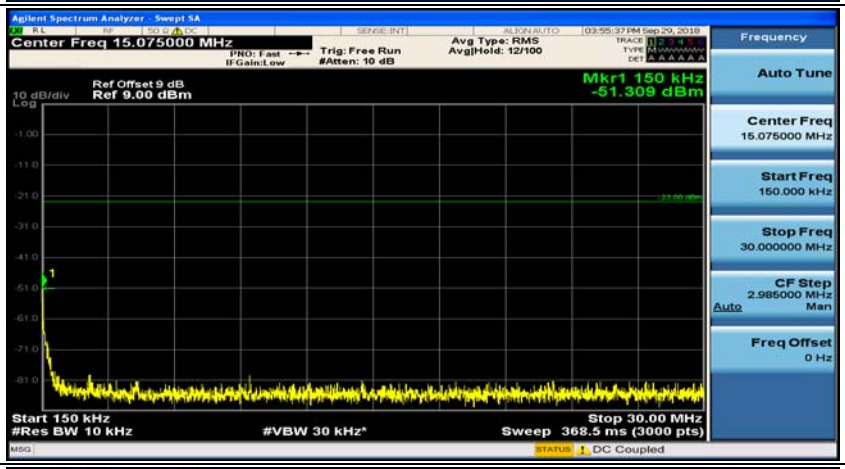
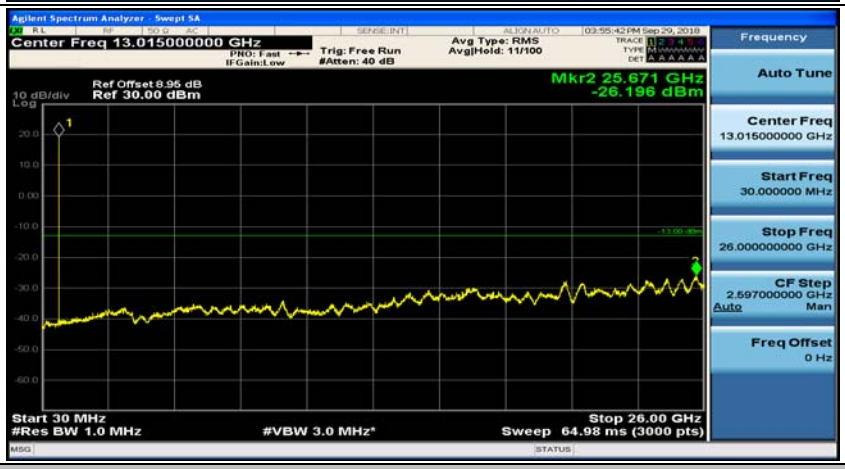


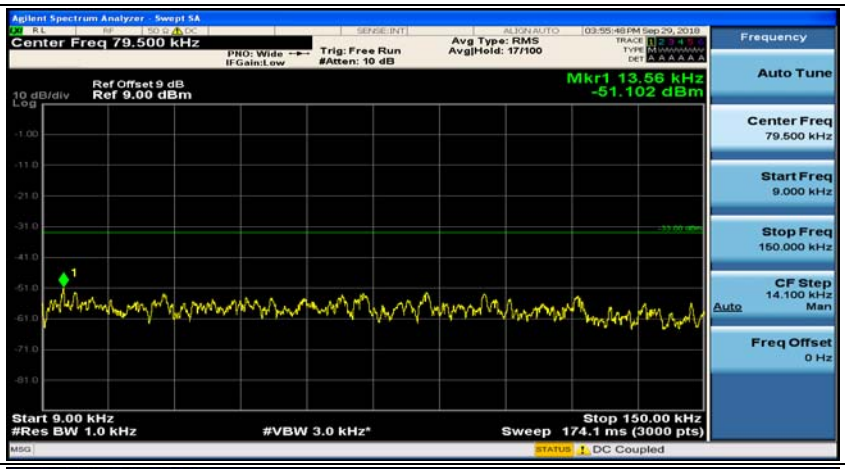
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49

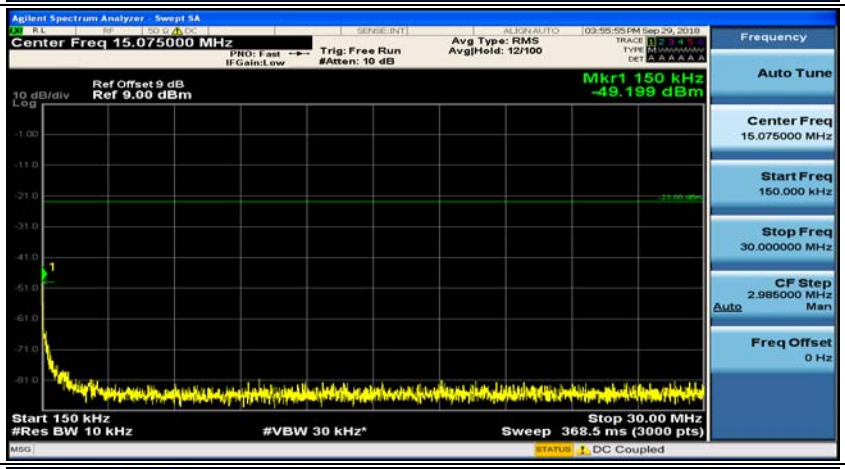

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
03:59:05 PM Sep 29, 2018
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Log
Mkr1 72.19 kHz
-51.703 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 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: 11/100
03:59:12 PM Sep 29, 2018
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Log
Mkr1 150 kHz
-49.233 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

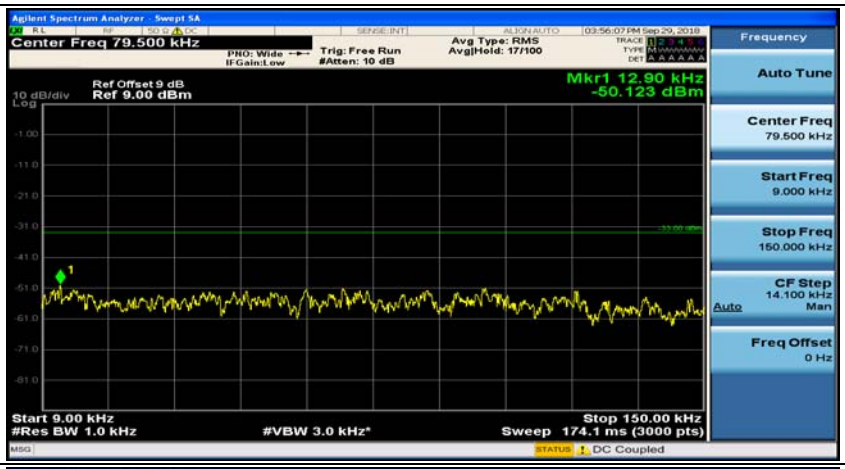

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
03:59:17 PM Sep 29, 2018
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Log
Mkr2 25.636 GHz
-26.437 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 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

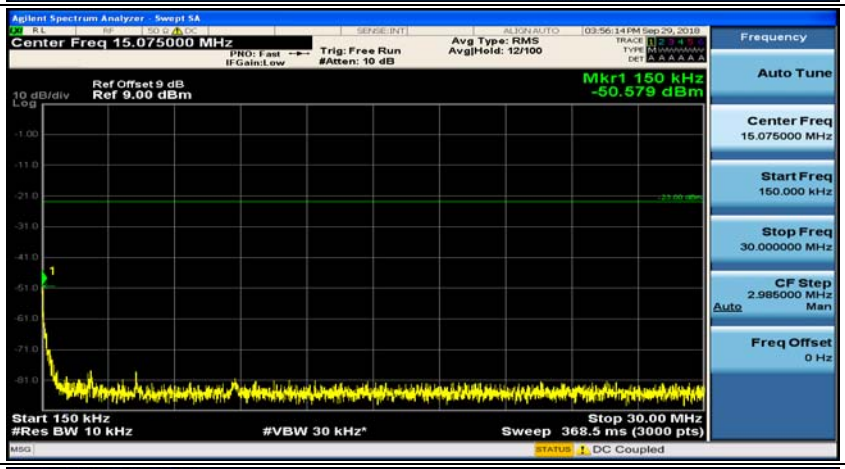
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24

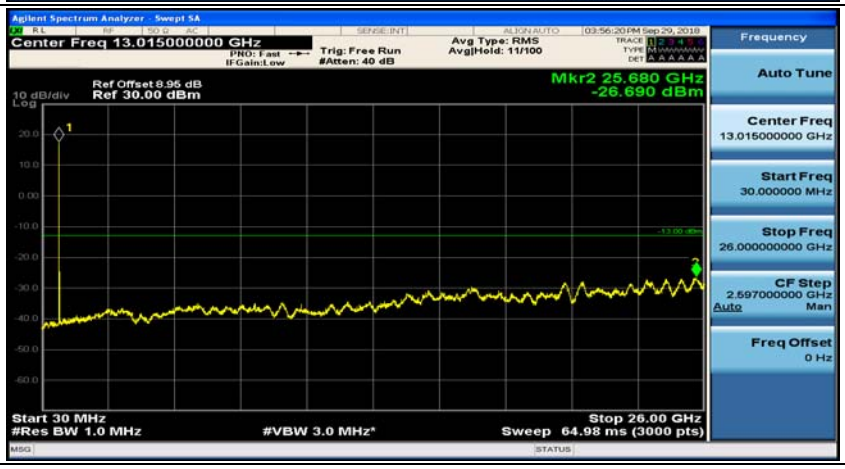


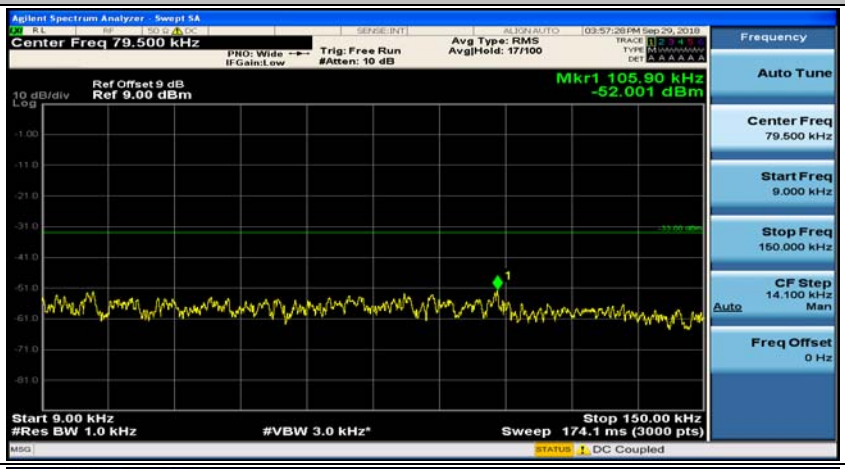
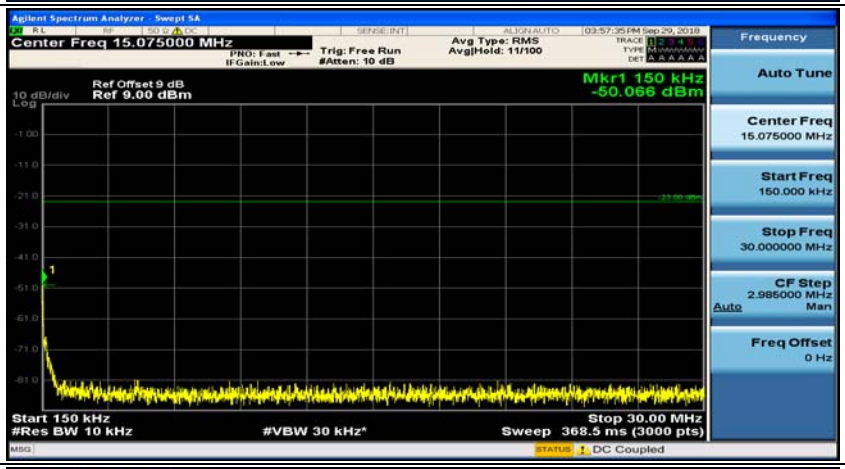
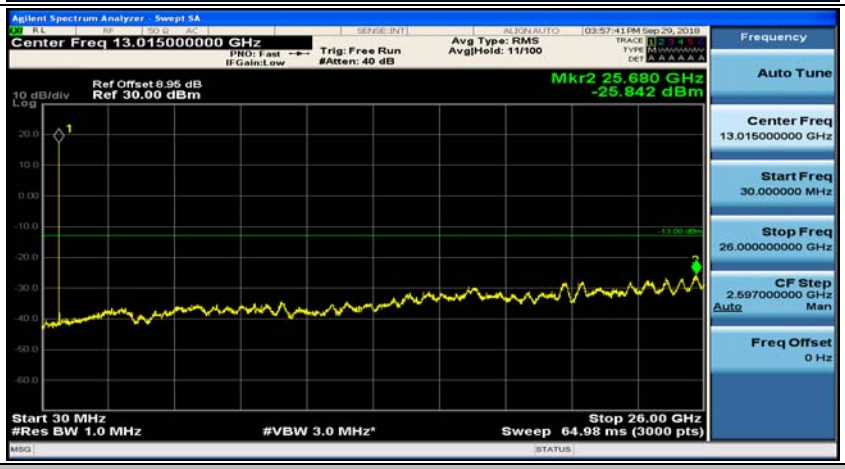


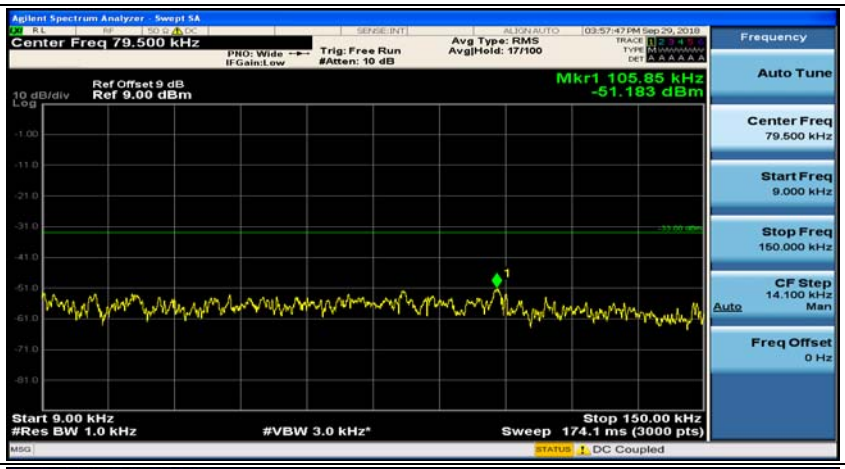
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49

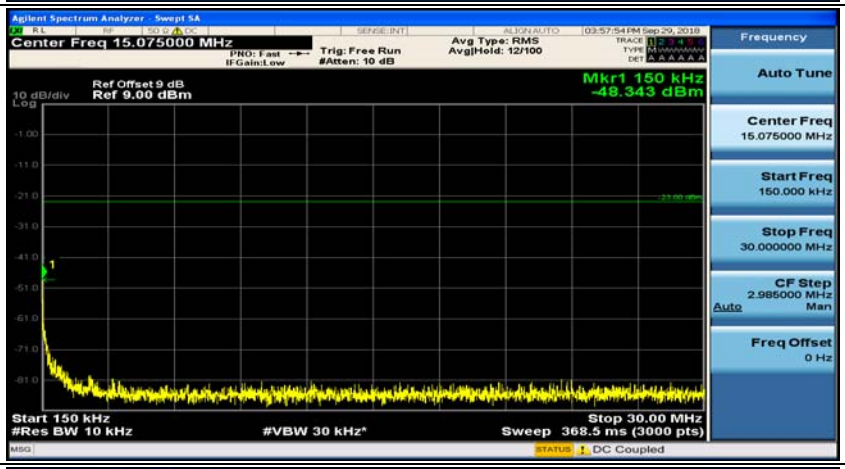

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
03:56:07 PM Sep 29, 2018
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Log
Mkr1 12.90 kHz
-50.123 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 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
03:56:14 PM Sep 29, 2018
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Log
Mkr1 150 kHz
-50.579 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

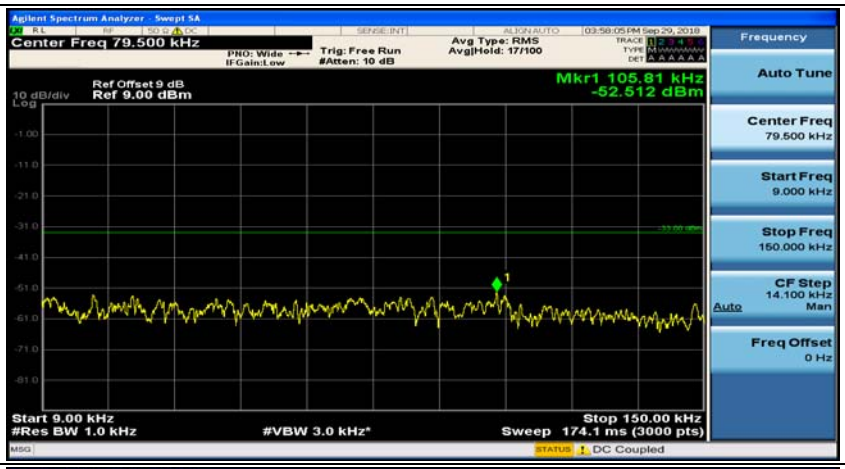

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
03:56:20 PM Sep 29, 2018
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Log
Mkr2 25.680 GHz
-26.690 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 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

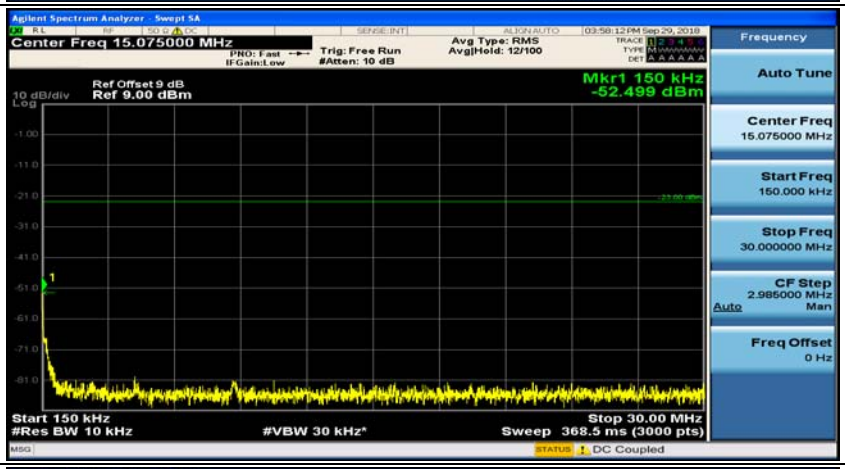
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

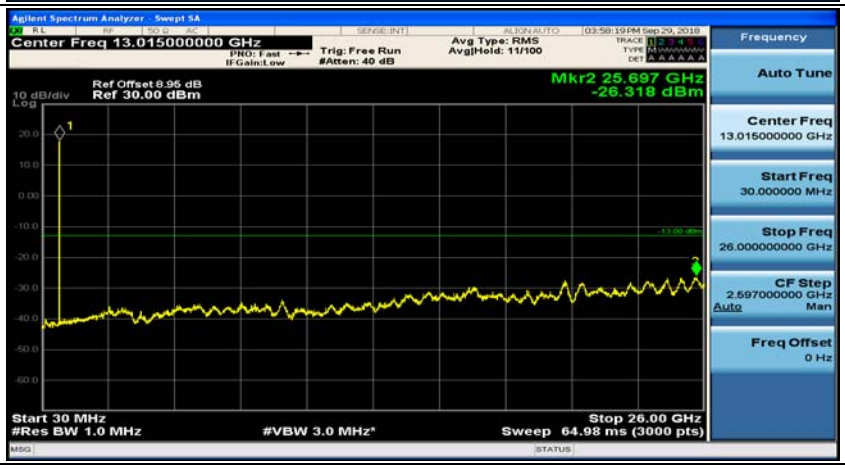


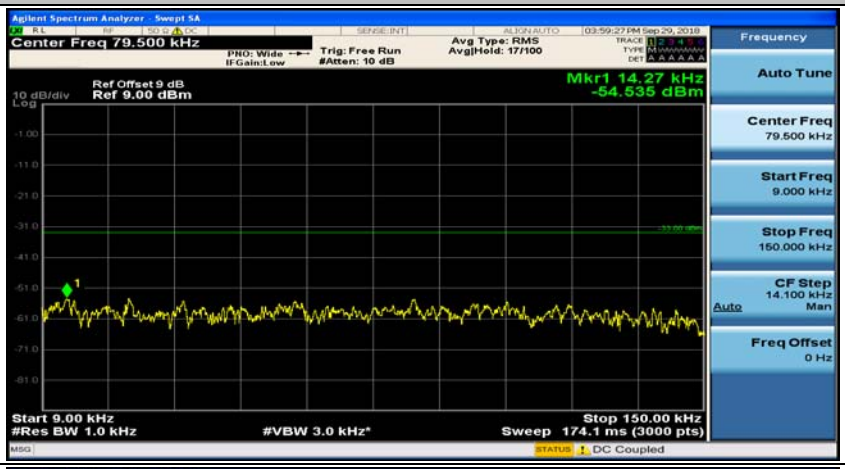
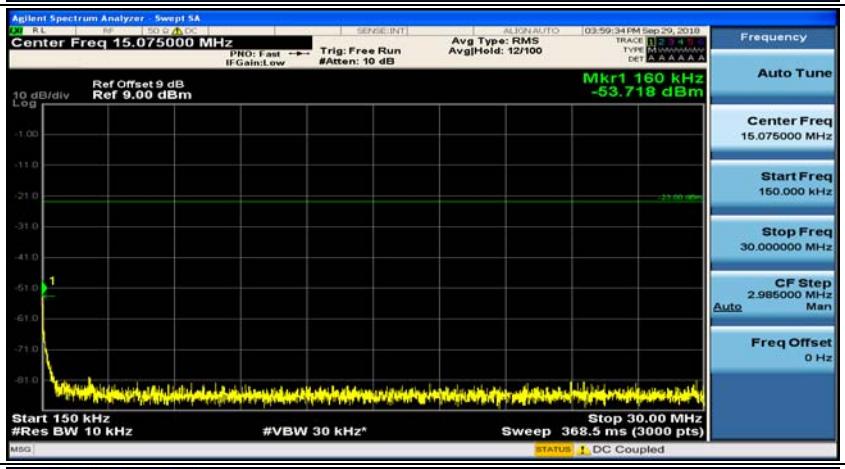
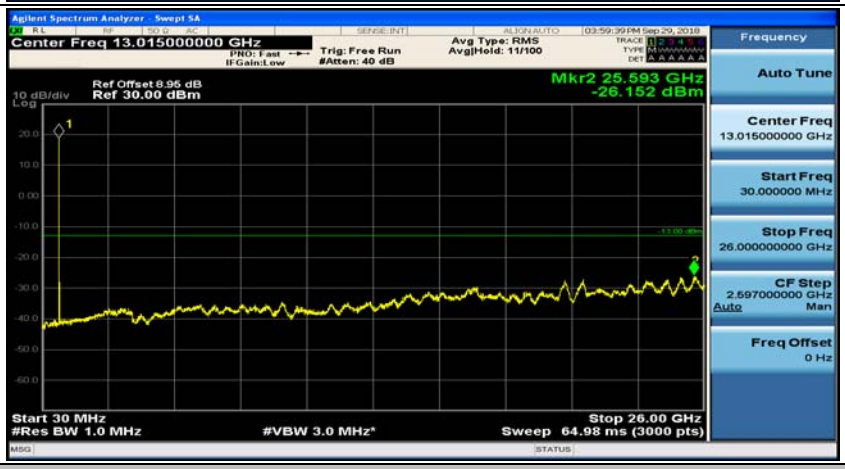


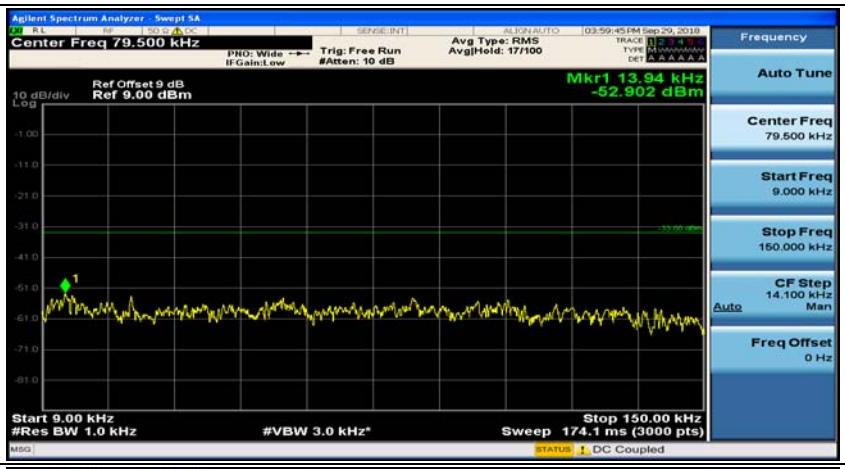
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49

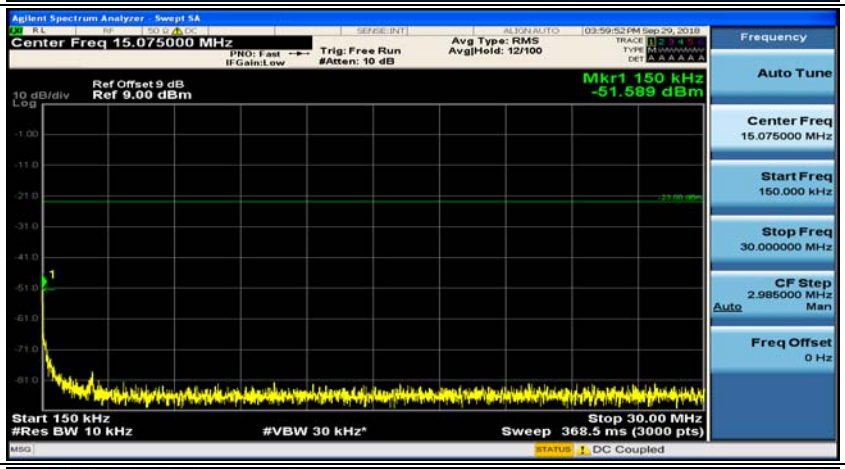

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 105.81 kHz
-52.512 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
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

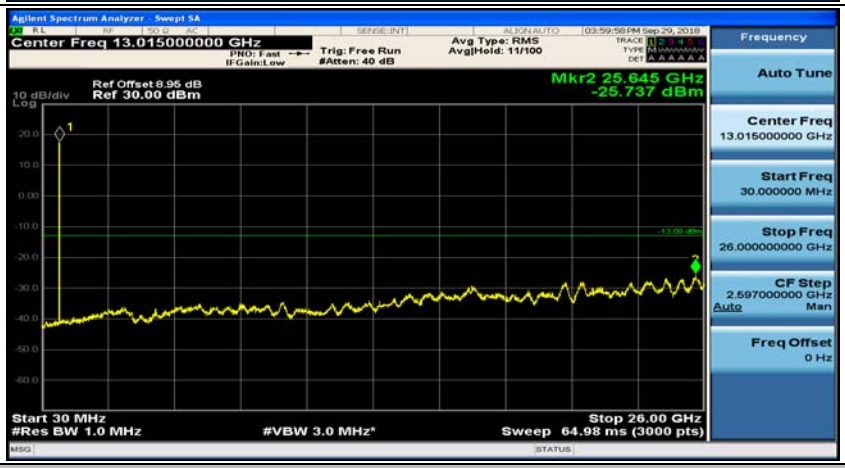

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 12/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-52.499 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
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 25.697 GHz
-26.318 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

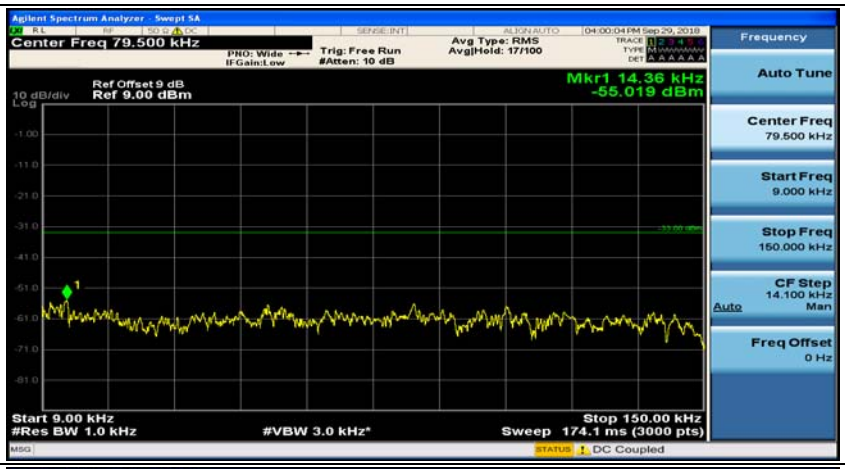
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24

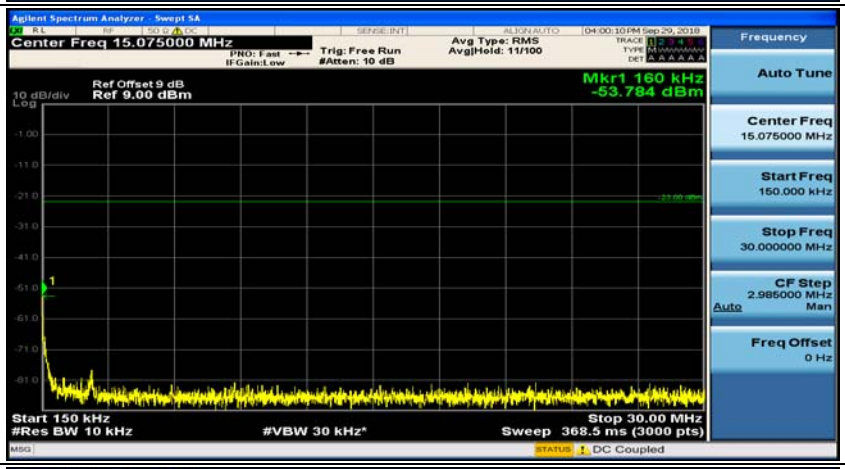


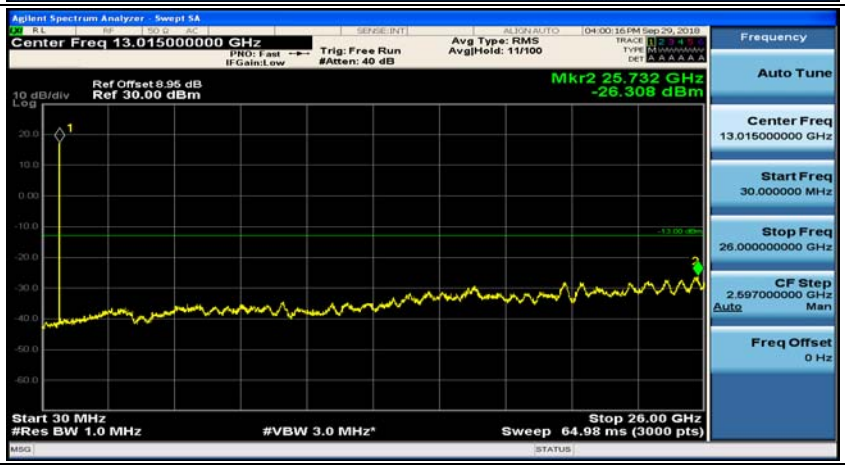




Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49


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
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 14.36 kHz
-55.019 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: 11/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 160 kHz
-53.784 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 25.732 GHz
-26.308 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	-0.47	-0.000672	± 2.5	PASS
		VN	TN	2.3	0.003287	± 2.5	PASS
		VH	TN	0.78	0.001115	± 2.5	PASS
	MCH	VL	TN	3.06	0.004325	± 2.5	PASS
		VN	TN	1.26	0.001781	± 2.5	PASS
		VH	TN	-1.82	-0.002572	± 2.5	PASS
	HCH	VL	TN	-0.39	-0.000545	± 2.5	PASS
		VN	TN	0.69	0.000965	± 2.5	PASS
		VH	TN	3.21	0.004488	± 2.5	PASS
16QAM	LCH	VL	TN	1.16	0.001658	± 2.5	PASS
		VN	TN	4.92	0.007032	± 2.5	PASS
		VH	TN	-0.89	-0.001272	± 2.5	PASS
	MCH	VL	TN	-1.98	-0.002799	± 2.5	PASS
		VN	TN	1.23	0.001739	± 2.5	PASS
		VH	TN	3.48	0.004919	± 2.5	PASS
	HCH	VL	TN	-0.36	-0.000503	± 2.5	PASS
		VN	TN	2.99	0.004180	± 2.5	PASS
		VH	TN	4.7	0.006571	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.44	-0.002056	± 2.5	PASS
		VN	-20	3.33	0.004754	± 2.5	PASS
		VN	-10	-0.36	-0.000514	± 2.5	PASS
		VN	0	-0.2	-0.000283	± 2.5	PASS
		VN	10	1.22	0.001724	± 2.5	PASS
		VN	20	2.57	0.003633	± 2.5	PASS
		VN	30	2.35	0.003289	± 2.5	PASS
		VN	40	3.82	0.005346	± 2.5	PASS
		VN	50	3.1	0.004339	± 2.5	PASS
	MCH	VN	-30	4.96	0.007081	± 2.5	PASS
		VN	-20	-1.68	-0.002398	± 2.5	PASS

		VN	-10	0.92	0.001313	± 2.5	PASS
		VN	0	3.96	0.005597	± 2.5	PASS
		VN	10	-0.72	-0.001018	± 2.5	PASS
		VN	20	0.2	0.000283	± 2.5	PASS
		VN	30	3.9	0.005458	± 2.5	PASS
		VN	40	0.47	0.000658	± 2.5	PASS
		VN	50	1.57	0.002197	± 2.5	PASS
	HCH	VN	-30	-1.44	-0.002056	± 2.5	PASS
		VN	-20	3.33	0.004754	± 2.5	PASS
		VN	-10	-0.36	-0.000514	± 2.5	PASS
		VN	0	-0.2	-0.000283	± 2.5	PASS
		VN	10	1.22	0.001724	± 2.5	PASS
		VN	20	2.57	0.003633	± 2.5	PASS
		VN	30	2.35	0.003289	± 2.5	PASS
		VN	40	3.82	0.005346	± 2.5	PASS
		VN	50	3.1	0.004339	± 2.5	PASS
16QAM	LCH	VN	-30	4.96	0.007081	± 2.5	PASS
		VN	-20	-1.68	-0.002398	± 2.5	PASS
		VN	-10	0.92	0.001313	± 2.5	PASS
		VN	0	3.96	0.005597	± 2.5	PASS
		VN	10	-0.72	-0.001018	± 2.5	PASS
		VN	20	0.2	0.000283	± 2.5	PASS
		VN	30	3.9	0.005458	± 2.5	PASS
		VN	40	0.47	0.000658	± 2.5	PASS
		VN	50	1.57	0.002197	± 2.5	PASS
	MCH	VN	-30	-1.44	-0.002056	± 2.5	PASS
		VN	-20	3.33	0.004754	± 2.5	PASS
		VN	-10	-0.36	-0.000514	± 2.5	PASS
		VN	0	-0.2	-0.000283	± 2.5	PASS
		VN	10	1.22	0.001724	± 2.5	PASS
		VN	20	2.57	0.003633	± 2.5	PASS
		VN	30	2.35	0.003289	± 2.5	PASS
		VN	40	3.82	0.005346	± 2.5	PASS
		VN	50	3.1	0.004339	± 2.5	PASS
	HCH	VN	-30	4.96	0.007081	± 2.5	PASS
		VN	-20	-1.68	-0.002398	± 2.5	PASS
		VN	-10	0.92	0.001313	± 2.5	PASS
		VN	0	3.96	0.005597	± 2.5	PASS
		VN	10	-0.72	-0.001018	± 2.5	PASS
		VN	20	0.2	0.000283	± 2.5	PASS
		VN	30	3.9	0.005458	± 2.5	PASS

		VN	40	0.47	0.000658	± 2.5	PASS
		VN	50	1.57	0.002197	± 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	4.85	0.006924	± 2.5	PASS
		VN	TN	4.74	0.006767	± 2.5	PASS
		VH	TN	0.98	0.001399	± 2.5	PASS
	MCH	VL	TN	1.26	0.001781	± 2.5	PASS
		VN	TN	0.91	0.001286	± 2.5	PASS
		VH	TN	0.49	0.000693	± 2.5	PASS
	HCH	VL	TN	3.04	0.004255	± 2.5	PASS
		VN	TN	-1.35	-0.001889	± 2.5	PASS
		VH	TN	1.36	0.001903	± 2.5	PASS
16QAM	LCH	VL	TN	-1.23	-0.001756	± 2.5	PASS
		VN	TN	0.21	0.000300	± 2.5	PASS
		VH	TN	-0.24	-0.000343	± 2.5	PASS
	MCH	VL	TN	-1.92	-0.002714	± 2.5	PASS
		VN	TN	2.5	0.003534	± 2.5	PASS
		VH	TN	3.83	0.005413	± 2.5	PASS
	HCH	VL	TN	-1.64	-0.002295	± 2.5	PASS
		VN	TN	1.54	0.002155	± 2.5	PASS
		VH	TN	-1.29	-0.001805	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.13	-0.000186	± 2.5	PASS
		VN	-20	-1.26	-0.001799	± 2.5	PASS
		VN	-10	4.85	0.006924	± 2.5	PASS
		VN	0	3.28	0.004682	± 2.5	PASS
		VN	10	4.2	0.005996	± 2.5	PASS
		VN	20	-0.02	-0.000029	± 2.5	PASS
		VN	30	0.74	0.001056	± 2.5	PASS
		VN	40	2.54	0.003626	± 2.5	PASS
		VN	50	-0.41	-0.000585	± 2.5	PASS
	MCH	VN	-30	0.03	0.000042	± 2.5	PASS
		VN	-20	-1.78	-0.002516	± 2.5	PASS
		VN	-10	0.84	0.001187	± 2.5	PASS

		VN	0	-1.22	-0.001724	± 2.5	PASS
		VN	10	4.29	0.006064	± 2.5	PASS
		VN	20	-0.35	-0.000495	± 2.5	PASS
		VN	30	-0.73	-0.001032	± 2.5	PASS
		VN	40	4.92	0.006954	± 2.5	PASS
		VN	50	-0.6	-0.000848	± 2.5	PASS
	HCH	VN	-30	0.7	0.000980	± 2.5	PASS
		VN	-20	-1.42	-0.001987	± 2.5	PASS
		VN	-10	0.82	0.001148	± 2.5	PASS
		VN	0	3.11	0.004353	± 2.5	PASS
		VN	10	3.78	0.005290	± 2.5	PASS
		VN	20	-0.99	-0.001386	± 2.5	PASS
		VN	30	-0.71	-0.000994	± 2.5	PASS
		VN	40	2.68	0.003751	± 2.5	PASS
		VN	50	2.17	0.003037	± 2.5	PASS
16QAM	LCH	VN	-30	1.47	0.002099	± 2.5	PASS
		VN	-20	2.52	0.003597	± 2.5	PASS
		VN	-10	3.24	0.004625	± 2.5	PASS
		VN	0	-0.46	-0.000657	± 2.5	PASS
		VN	10	4.26	0.006081	± 2.5	PASS
		VN	20	0.47	0.000671	± 2.5	PASS
		VN	30	-0.65	-0.000928	± 2.5	PASS
		VN	40	3.27	0.004668	± 2.5	PASS
		VN	50	2.71	0.003869	± 2.5	PASS
	MCH	VN	-30	0.63	0.000890	± 2.5	PASS
		VN	-20	-0.3	-0.000424	± 2.5	PASS
		VN	-10	4.14	0.005852	± 2.5	PASS
		VN	0	3.65	0.005159	± 2.5	PASS
		VN	10	4.47	0.006318	± 2.5	PASS
		VN	20	0.13	0.000184	± 2.5	PASS
		VN	30	4.6	0.006502	± 2.5	PASS
		VN	40	0.83	0.001173	± 2.5	PASS
		VN	50	1.72	0.002431	± 2.5	PASS
	HCH	VN	-30	0.75	0.001050	± 2.5	PASS
		VN	-20	-0.6	-0.000840	± 2.5	PASS
		VN	-10	-1.15	-0.001610	± 2.5	PASS
		VN	0	3.58	0.005010	± 2.5	PASS
		VN	10	-0.09	-0.000126	± 2.5	PASS
		VN	20	2.18	0.003051	± 2.5	PASS
		VN	30	1.66	0.002323	± 2.5	PASS
		VN	40	-0.52	-0.000728	± 2.5	PASS

		VN	50	3.94	0.005514	± 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	3.65	0.005203	± 2.5	PASS
		VN	TN	-0.47	-0.000670	± 2.5	PASS
		VH	TN	-1.65	-0.002352	± 2.5	PASS
	MCH	VL	TN	3.03	0.004283	± 2.5	PASS
		VN	TN	1.94	0.002742	± 2.5	PASS
		VH	TN	1.12	0.001583	± 2.5	PASS
	HCH	VL	TN	-1.35	-0.001892	± 2.5	PASS
		VN	TN	0.58	0.000813	± 2.5	PASS
		VH	TN	-1.89	-0.002649	± 2.5	PASS
16QAM	LCH	VL	TN	-1.85	-0.002637	± 2.5	PASS
		VN	TN	1.71	0.002438	± 2.5	PASS
		VH	TN	0.12	0.000171	± 2.5	PASS
	MCH	VL	TN	1.04	0.001470	± 2.5	PASS
		VN	TN	-0.8	-0.001131	± 2.5	PASS
		VH	TN	1.8	0.002544	± 2.5	PASS
	HCH	VL	TN	1.65	0.002313	± 2.5	PASS
		VN	TN	0.73	0.001023	± 2.5	PASS
		VH	TN	1.93	0.002705	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.87	0.002666	± 2.5	PASS
		VN	-20	-1.29	-0.001839	± 2.5	PASS
		VN	-10	2.74	0.003906	± 2.5	PASS
		VN	0	-1.81	-0.002580	± 2.5	PASS
		VN	10	2.82	0.004020	± 2.5	PASS
		VN	20	-1.89	-0.002694	± 2.5	PASS
		VN	30	-0.61	-0.000870	± 2.5	PASS
		VN	40	1.86	0.002651	± 2.5	PASS
		VN	50	-1.39	-0.001981	± 2.5	PASS
	MCH	VN	-30	0.94	0.001329	± 2.5	PASS
		VN	-20	-1.5	-0.002120	± 2.5	PASS
		VN	-10	2.56	0.003618	± 2.5	PASS
		VN	0	1.13	0.001597	± 2.5	PASS

		VN	10	1.55	0.002191	± 2.5	PASS
		VN	20	-1.09	-0.001541	± 2.5	PASS
		VN	30	3.6	0.005088	± 2.5	PASS
		VN	40	1.1	0.001555	± 2.5	PASS
		VN	50	2.51	0.003548	± 2.5	PASS
	HCH	VN	-30	3.49	0.004891	± 2.5	PASS
		VN	-20	1.9	0.002663	± 2.5	PASS
		VN	-10	4.22	0.005915	± 2.5	PASS
		VN	0	0.85	0.001191	± 2.5	PASS
		VN	10	-0.95	-0.001331	± 2.5	PASS
		VN	20	0.63	0.000883	± 2.5	PASS
		VN	30	0.55	0.000771	± 2.5	PASS
		VN	40	2.71	0.003798	± 2.5	PASS
		VN	50	2.66	0.003728	± 2.5	PASS
16QAM	LCH	VN	-30	2.74	0.003906	± 2.5	PASS
		VN	-20	3.8	0.005417	± 2.5	PASS
		VN	-10	-0.56	-0.000798	± 2.5	PASS
		VN	0	1.21	0.001725	± 2.5	PASS
		VN	10	1.27	0.001810	± 2.5	PASS
		VN	20	2.08	0.002965	± 2.5	PASS
		VN	30	-1.9	-0.002708	± 2.5	PASS
		VN	40	1.62	0.002309	± 2.5	PASS
		VN	50	4.79	0.006828	± 2.5	PASS
	MCH	VN	-30	-1.82	-0.002572	± 2.5	PASS
		VN	-20	-1.54	-0.002177	± 2.5	PASS
		VN	-10	2.24	0.003166	± 2.5	PASS
		VN	0	-0.61	-0.000862	± 2.5	PASS
		VN	10	4.01	0.005668	± 2.5	PASS
		VN	20	-0.83	-0.001173	± 2.5	PASS
		VN	30	2.16	0.003053	± 2.5	PASS
		VN	40	0.51	0.000721	± 2.5	PASS
		VN	50	1.77	0.002502	± 2.5	PASS
	HCH	VN	-30	-0.97	-0.001359	± 2.5	PASS
		VN	-20	4.97	0.006966	± 2.5	PASS
		VN	-10	4.74	0.006643	± 2.5	PASS
		VN	0	-1.54	-0.002158	± 2.5	PASS
		VN	10	-1.06	-0.001486	± 2.5	PASS
		VN	20	2.12	0.002971	± 2.5	PASS
		VN	30	-0.2	-0.000280	± 2.5	PASS
		VN	40	0.82	0.001149	± 2.5	PASS
		VN	50	-0.39	-0.000547	± 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	4.99	0.007088	± 2.5	PASS
		VN	TN	3.39	0.004815	± 2.5	PASS
		VH	TN	-0.47	-0.000668	± 2.5	PASS
	MCH	VL	TN	3.76	0.005314	± 2.5	PASS
		VN	TN	0.27	0.000382	± 2.5	PASS
		VH	TN	-0.49	-0.000693	± 2.5	PASS
	HCH	VL	TN	-1.15	-0.001617	± 2.5	PASS
		VN	TN	3.22	0.004529	± 2.5	PASS
		VH	TN	3.79	0.005331	± 2.5	PASS
16QAM	LCH	VL	TN	-1.41	-0.002003	± 2.5	PASS
		VN	TN	2.32	0.003295	± 2.5	PASS
		VH	TN	3.21	0.004560	± 2.5	PASS
	MCH	VL	TN	1.13	0.001597	± 2.5	PASS
		VN	TN	1.76	0.002488	± 2.5	PASS
		VH	TN	3.38	0.004777	± 2.5	PASS
	HCH	VL	TN	1.2	0.001688	± 2.5	PASS
		VN	TN	0.7	0.000985	± 2.5	PASS
		VH	TN	-1.11	-0.001561	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	4	0.005682	± 2.5	PASS
		VN	-20	-1.66	-0.002358	± 2.5	PASS
		VN	-10	1.84	0.002614	± 2.5	PASS
		VN	0	1.58	0.002244	± 2.5	PASS
		VN	10	3.36	0.004773	± 2.5	PASS
		VN	20	0.04	0.000057	± 2.5	PASS
		VN	30	-1.47	-0.002088	± 2.5	PASS
		VN	40	3.78	0.005369	± 2.5	PASS
		VN	50	-1.08	-0.001534	± 2.5	PASS
	MCH	VN	-30	0.04	0.000057	± 2.5	PASS
		VN	-20	-0.34	-0.000481	± 2.5	PASS
		VN	-10	1.08	0.001527	± 2.5	PASS
		VN	0	-1.87	-0.002643	± 2.5	PASS
		VN	10	-0.04	-0.000057	± 2.5	PASS
		VN	20	0.72	0.001018	± 2.5	PASS

		VN	30	1.32	0.001866	± 2.5	PASS
		VN	40	3.21	0.004537	± 2.5	PASS
		VN	50	-1.34	-0.001894	± 2.5	PASS
	HCH	VN	-30	4.04	0.005682	± 2.5	PASS
		VN	-20	0.58	0.000816	± 2.5	PASS
		VN	-10	-1.18	-0.001660	± 2.5	PASS
		VN	0	2.03	0.002855	± 2.5	PASS
		VN	10	2.92	0.004107	± 2.5	PASS
		VN	20	0.17	0.000239	± 2.5	PASS
		VN	30	-0.81	-0.001139	± 2.5	PASS
		VN	40	1.64	0.002307	± 2.5	PASS
		VN	50	4.23	0.005949	± 2.5	PASS
QPSK	LCH	VN	-30	4.4	0.006250	± 2.5	PASS
		VN	-20	-1.96	-0.002784	± 2.5	PASS
		VN	-10	4.33	0.006151	± 2.5	PASS
		VN	0	-0.93	-0.001321	± 2.5	PASS
		VN	10	2.71	0.003849	± 2.5	PASS
		VN	20	4.67	0.006634	± 2.5	PASS
		VN	30	1.62	0.002301	± 2.5	PASS
		VN	40	0.04	0.000057	± 2.5	PASS
		VN	50	4.73	0.006719	± 2.5	PASS
	MCH	VN	-30	-1.62	-0.002290	± 2.5	PASS
		VN	-20	3.21	0.004537	± 2.5	PASS
		VN	-10	2.5	0.003534	± 2.5	PASS
		VN	0	-1.81	-0.002558	± 2.5	PASS
		VN	10	2.41	0.003406	± 2.5	PASS
		VN	20	1.03	0.001456	± 2.5	PASS
		VN	30	3.5	0.004947	± 2.5	PASS
		VN	40	0.77	0.001088	± 2.5	PASS
		VN	50	0.37	0.000523	± 2.5	PASS
	HCH	VN	-30	1.01	0.001421	± 2.5	PASS
		VN	-20	-0.89	-0.001252	± 2.5	PASS
		VN	-10	2.8	0.003938	± 2.5	PASS
		VN	0	2.05	0.002883	± 2.5	PASS
		VN	10	-0.08	-0.000113	± 2.5	PASS
		VN	20	1.85	0.002602	± 2.5	PASS
		VN	30	1.32	0.001857	± 2.5	PASS
		VN	40	4.15	0.005837	± 2.5	PASS
		VN	50	2.82	0.003966	± 2.5	PASS