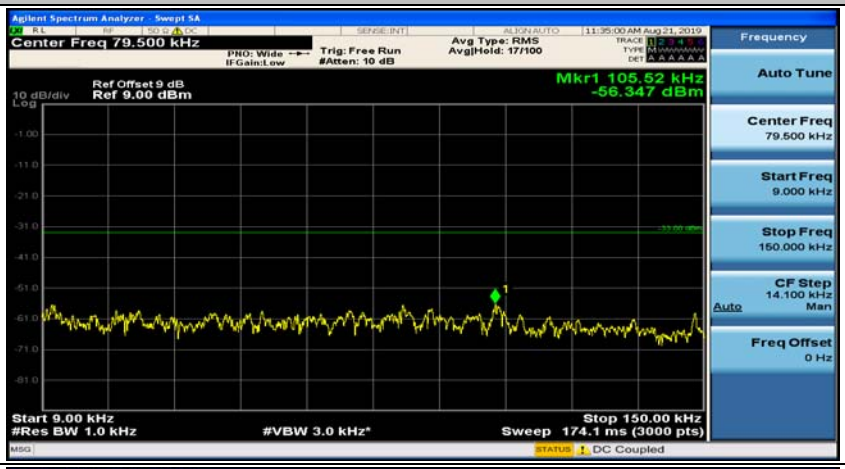
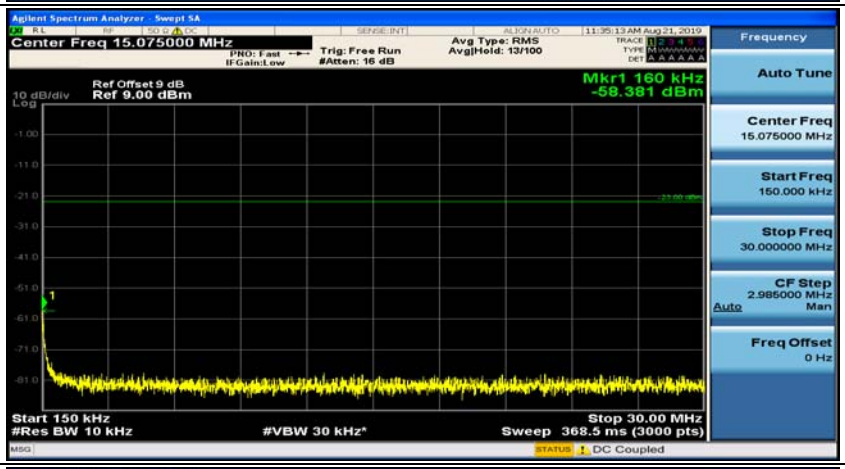
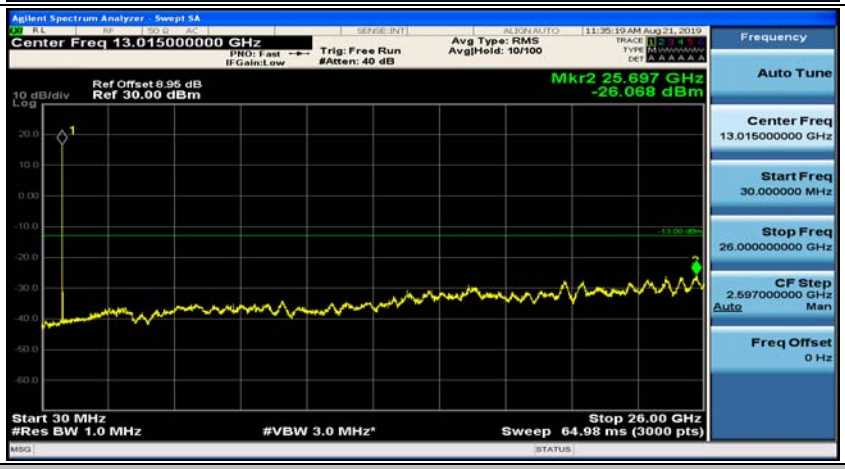
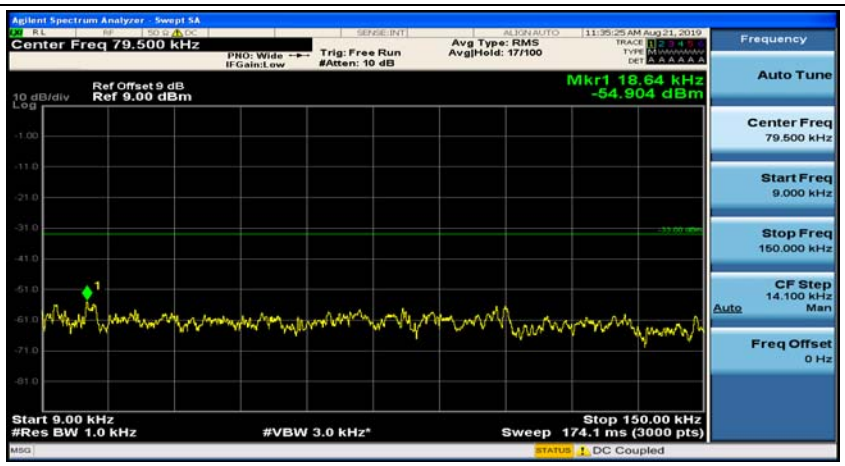
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0

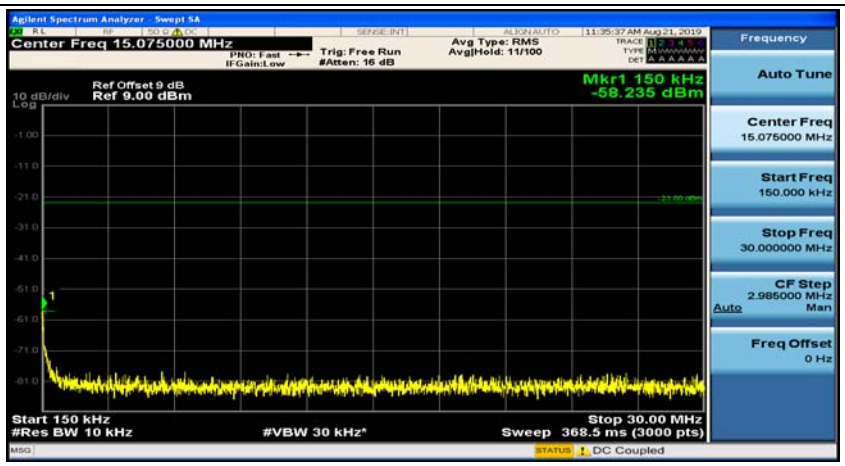


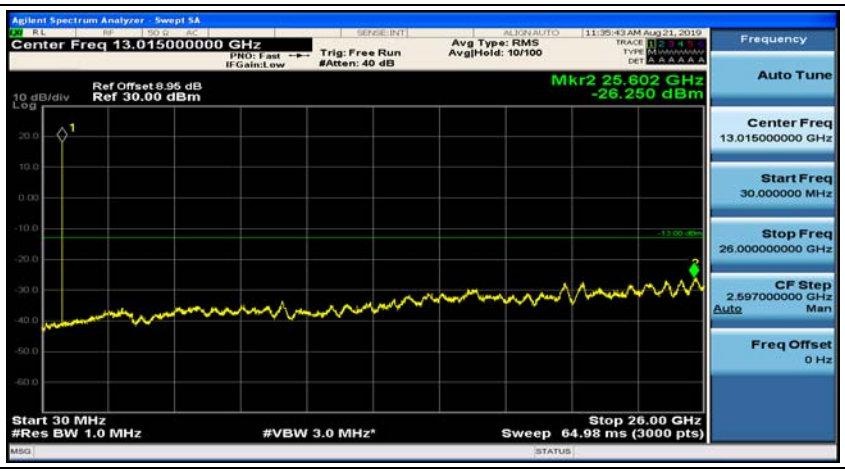




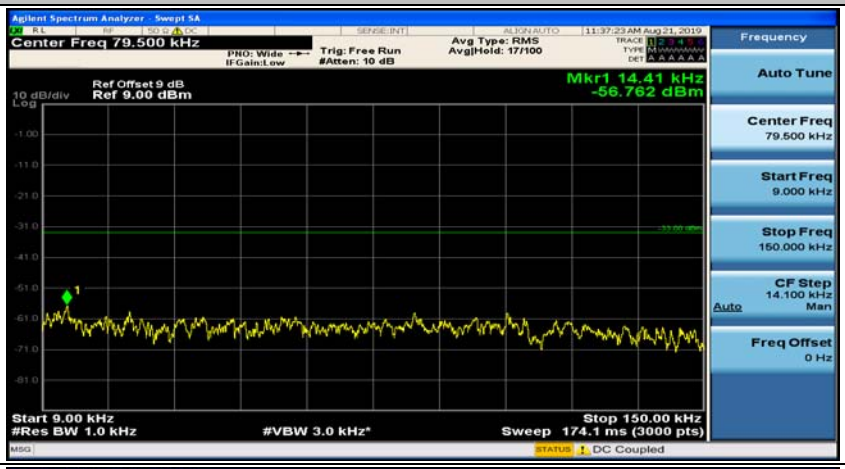
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7

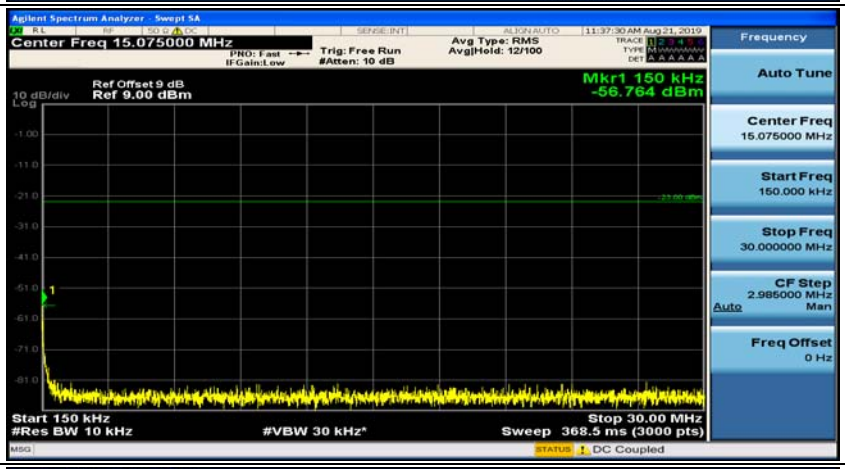

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
11:35:25 AM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 18.64 kHz
-54.904 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz

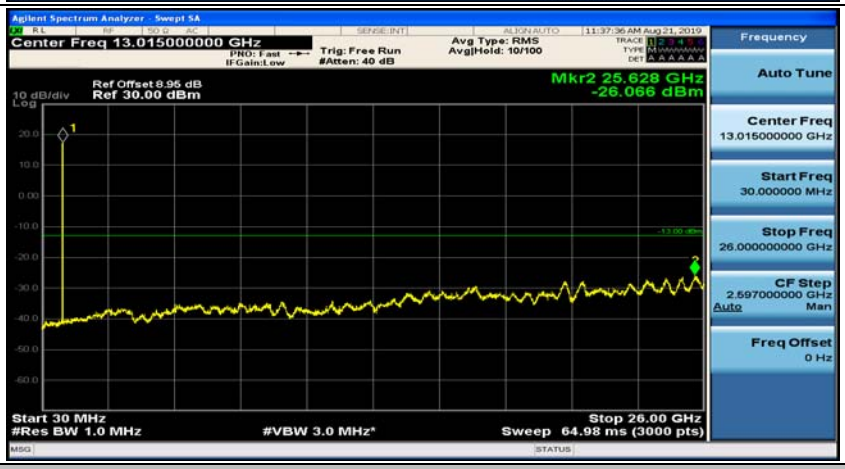

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 11/100
11:35:37 AM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-58.235 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 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: 10/100
11:35:43 AM Aug 21, 2019
Ref Offset 8.96 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.602 GHz
-26.250 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

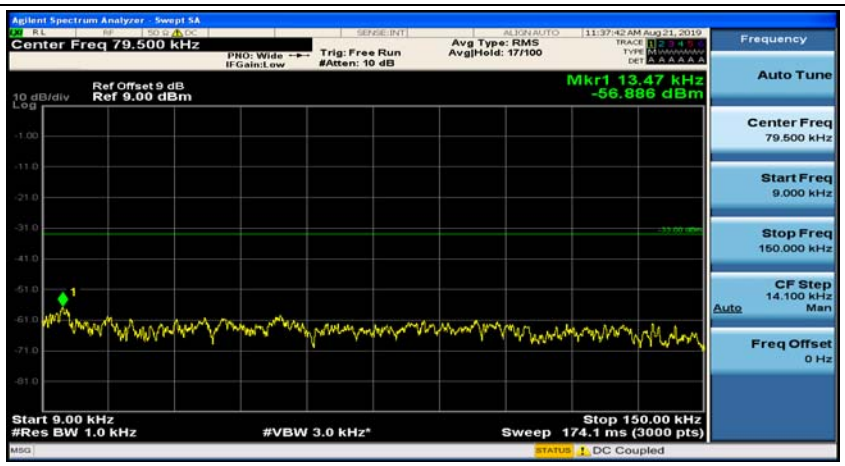
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0

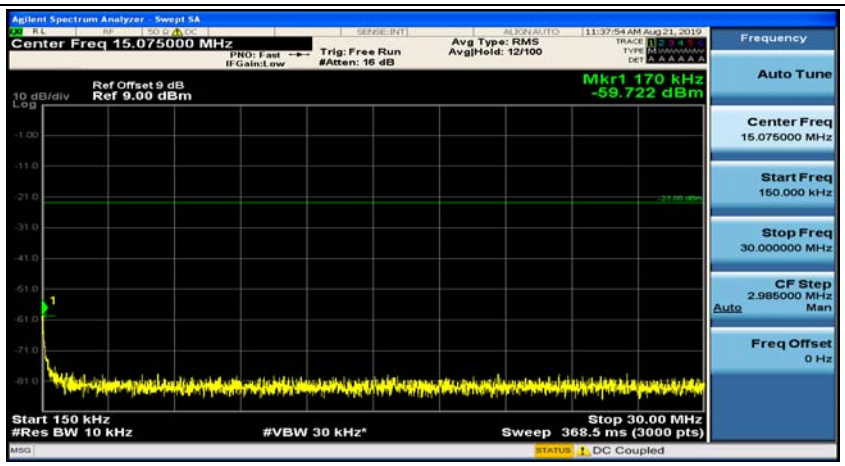


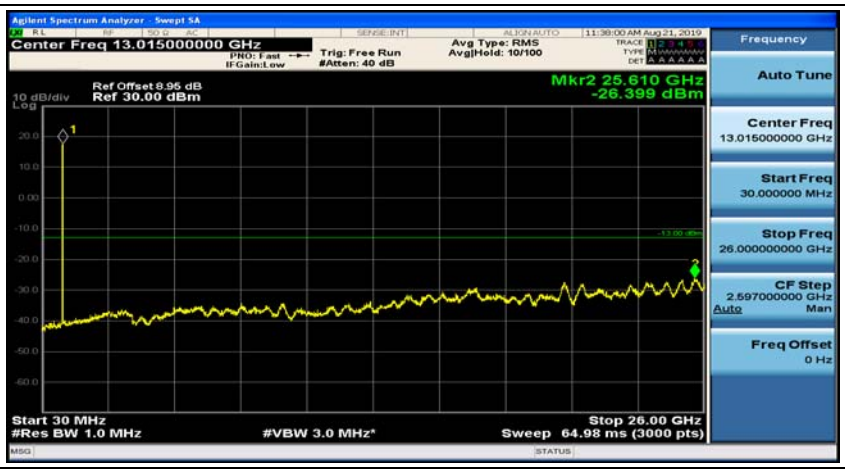




(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7

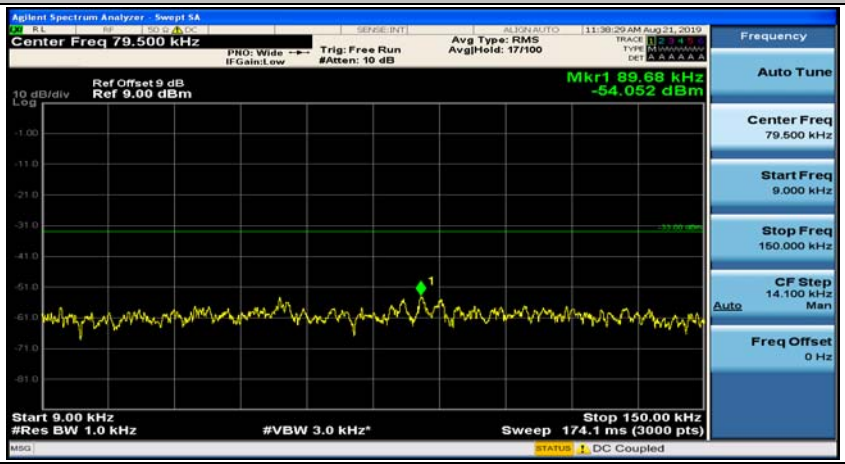

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
11:37:42 AM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 13.47 kHz
-56.886 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 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

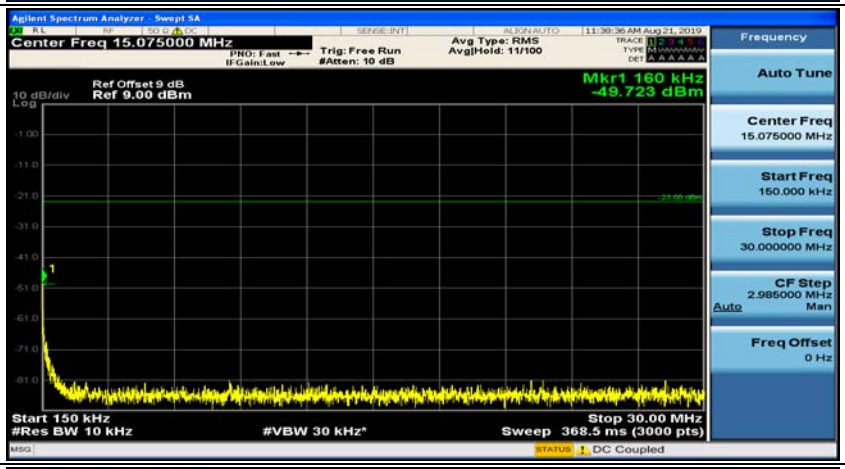

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
11:37:54 AM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 170 kHz
-59.722 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 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

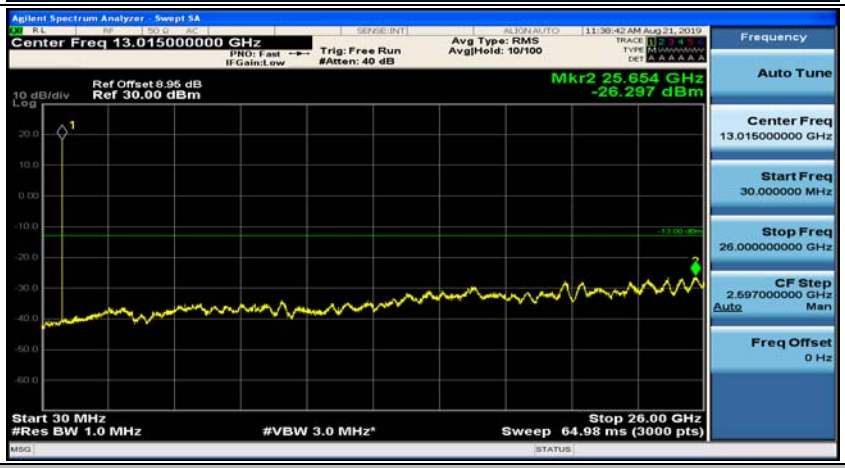

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 10/100
11:38:00 AM Aug 21, 2019
Ref Offset 8.96 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.610 GHz
-26.399 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
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

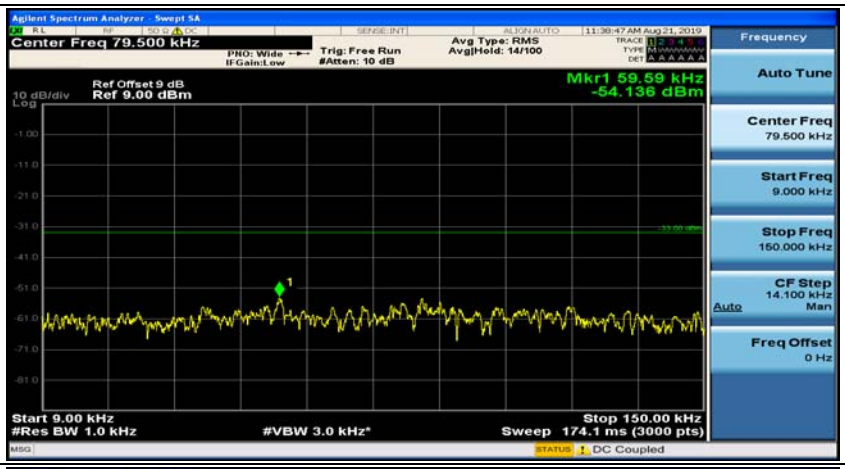
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

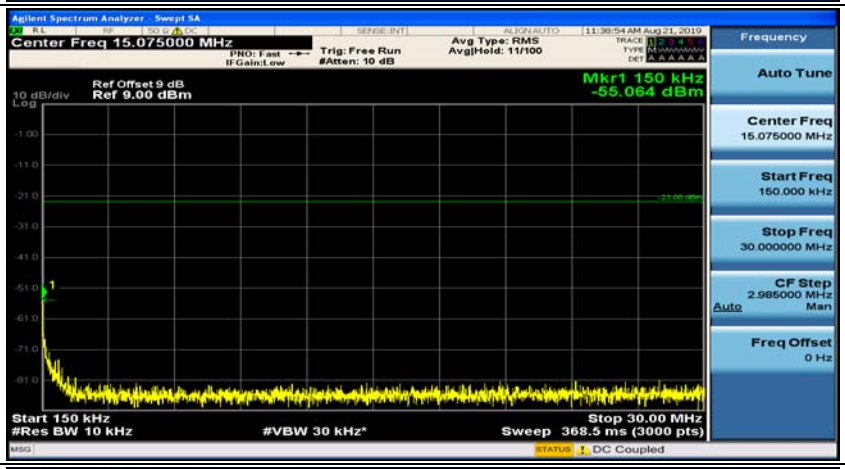


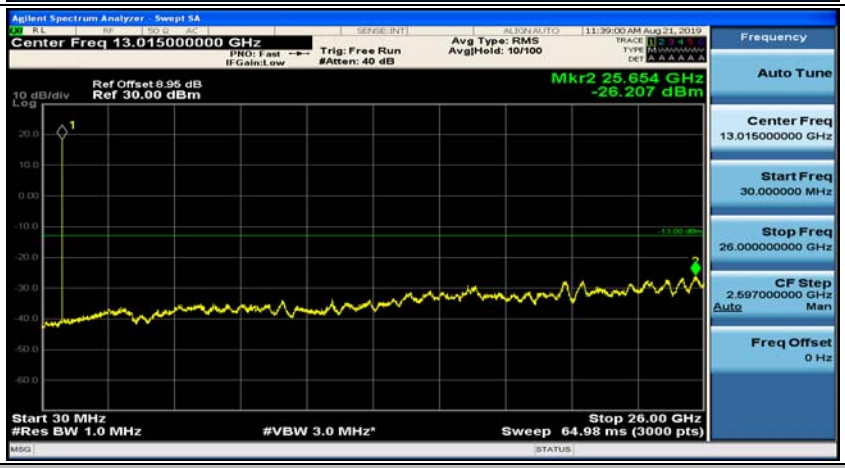




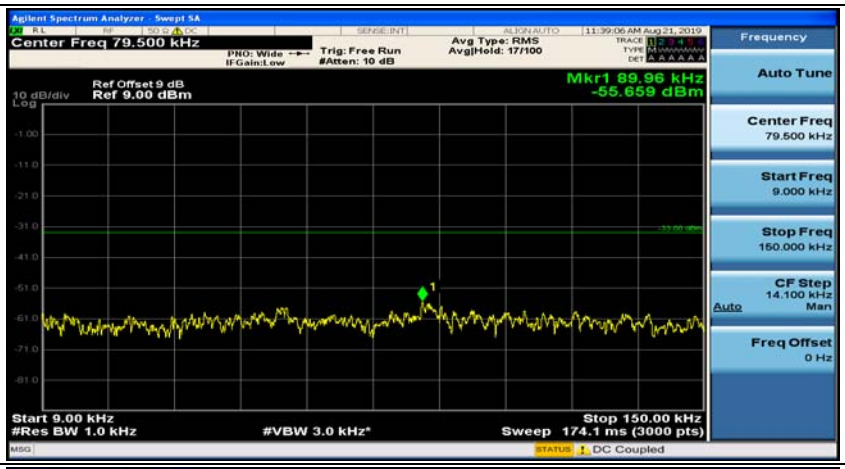
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12

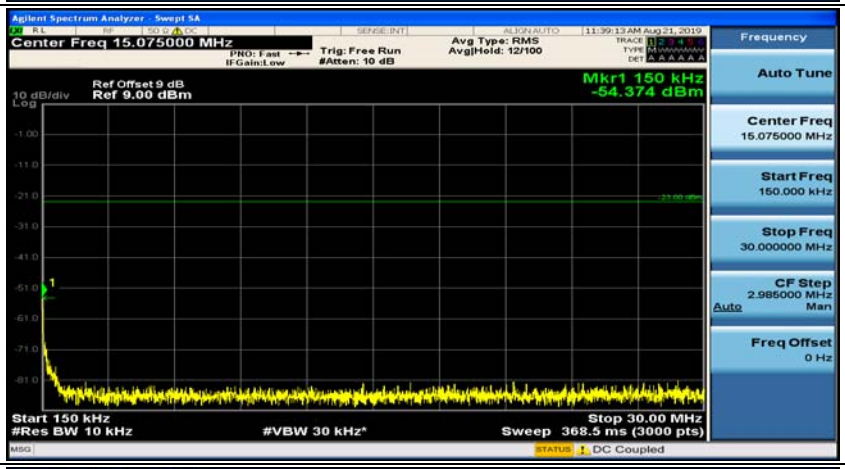


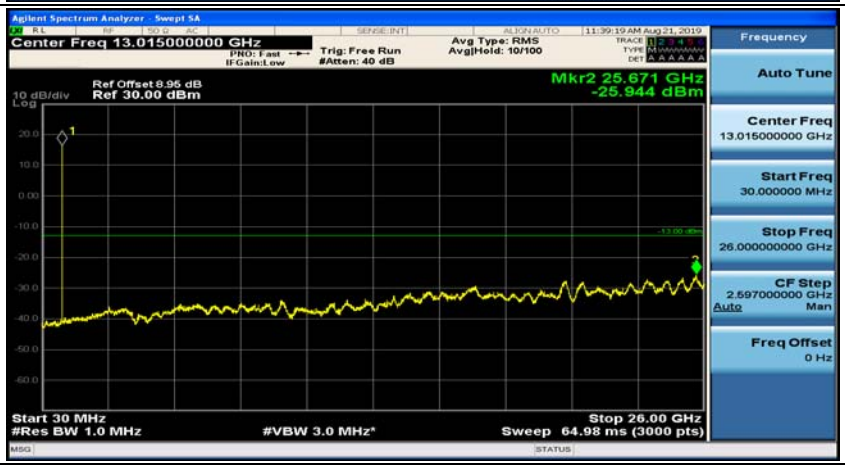




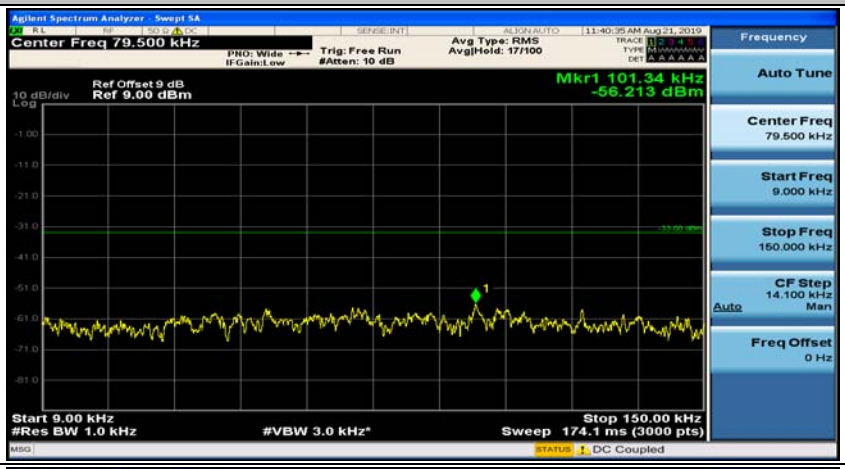
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24

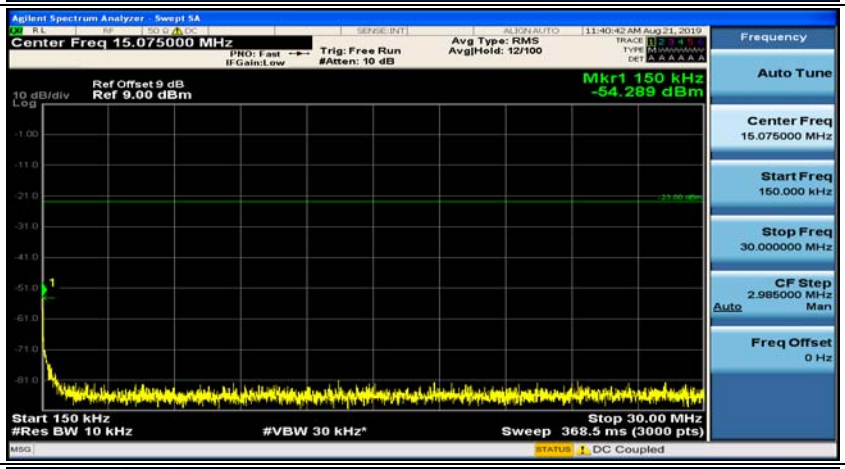

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
11:39:06 AM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 89.96 kHz
-55.659 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 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

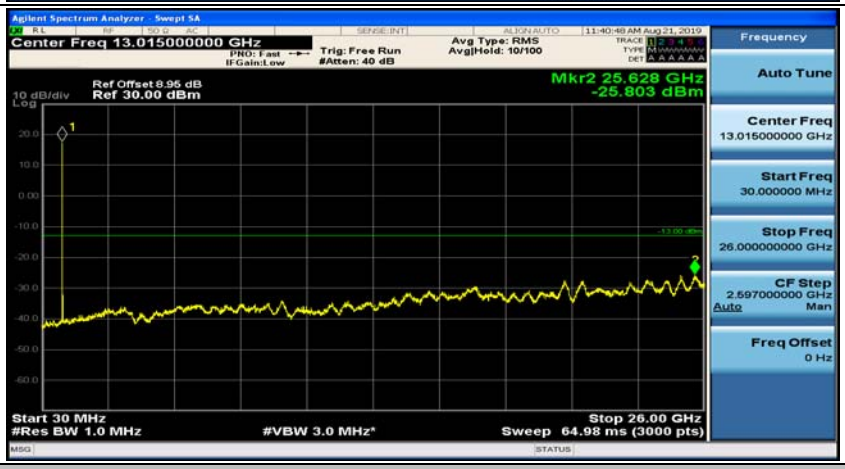

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 12/100
11:39:13 AM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-54.374 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 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: 10/100
11:39:19 AM Aug 21, 2019
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.671 GHz
-25.944 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

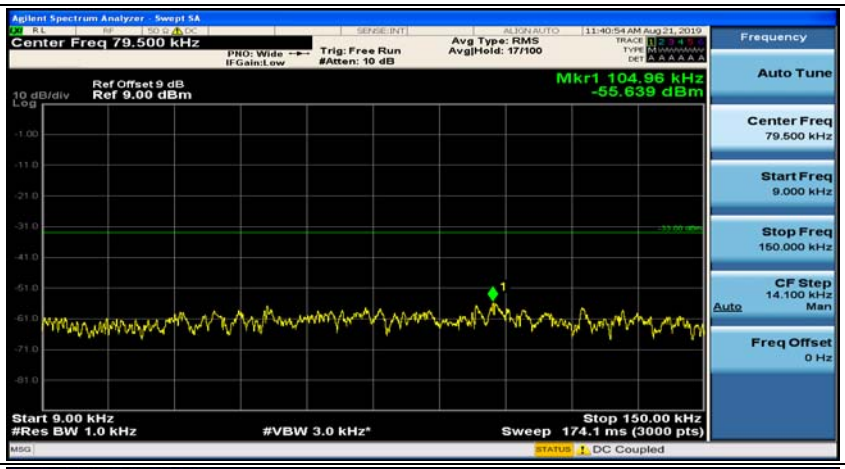
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

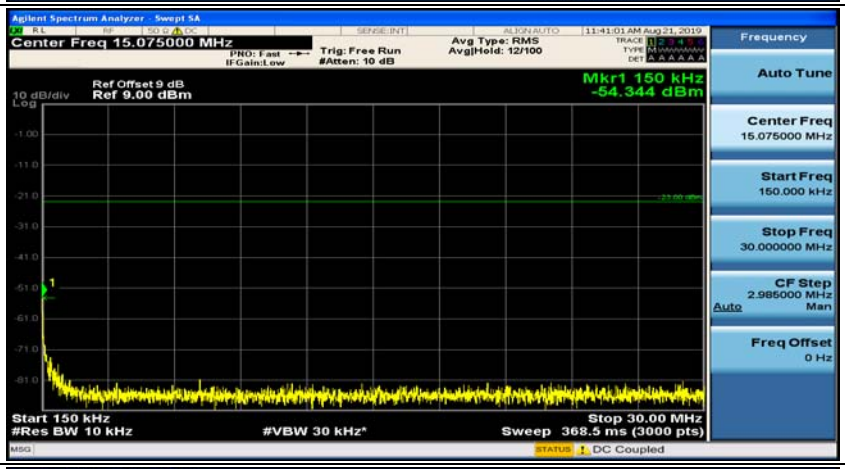




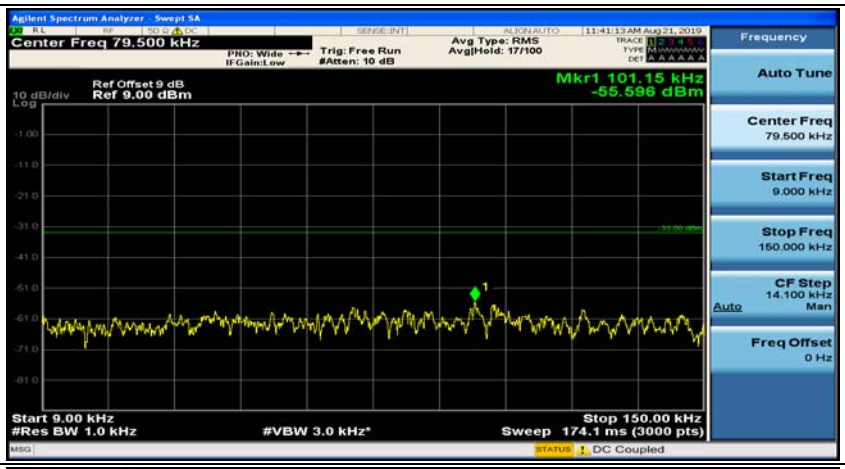


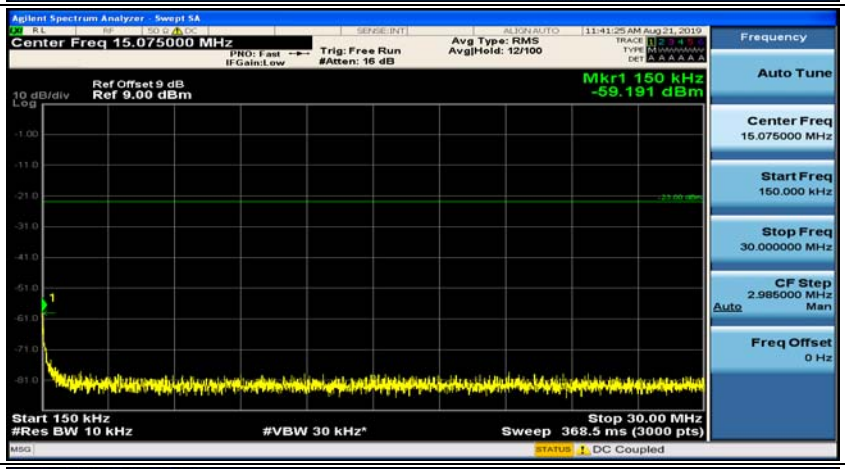
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

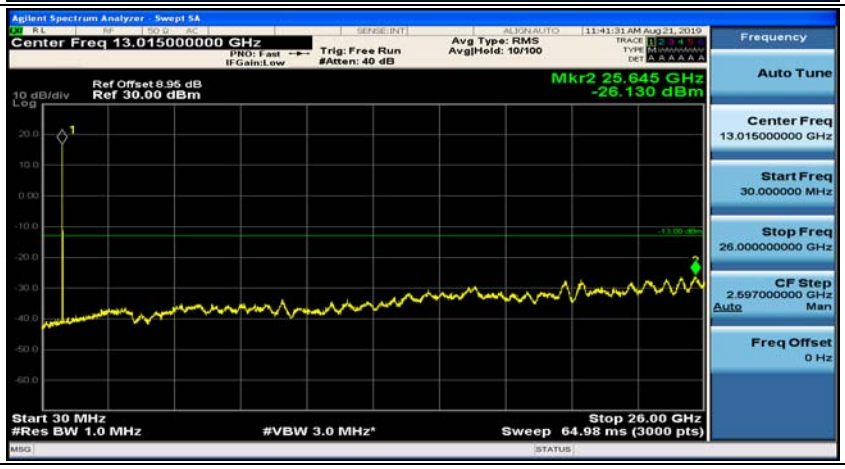




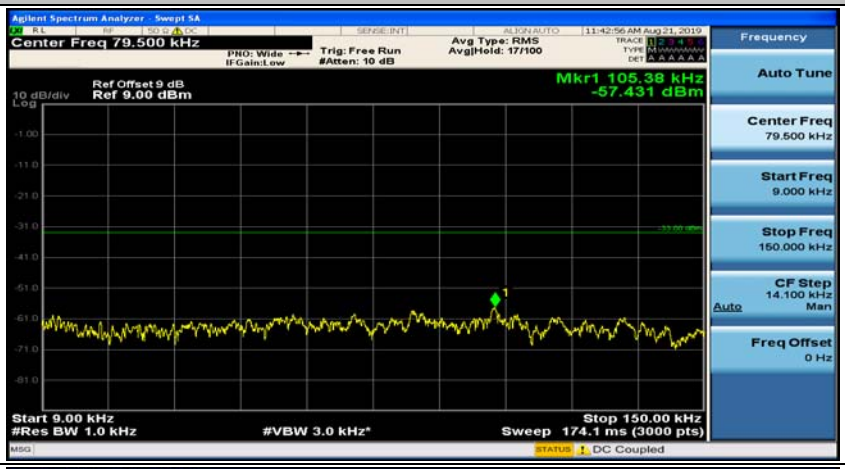
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

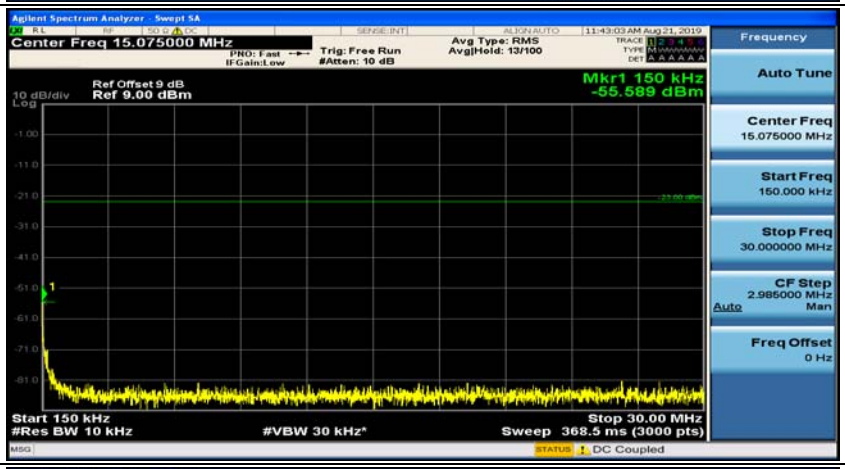

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
11:41:13 AM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 101.15 kHz
-55.596 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 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

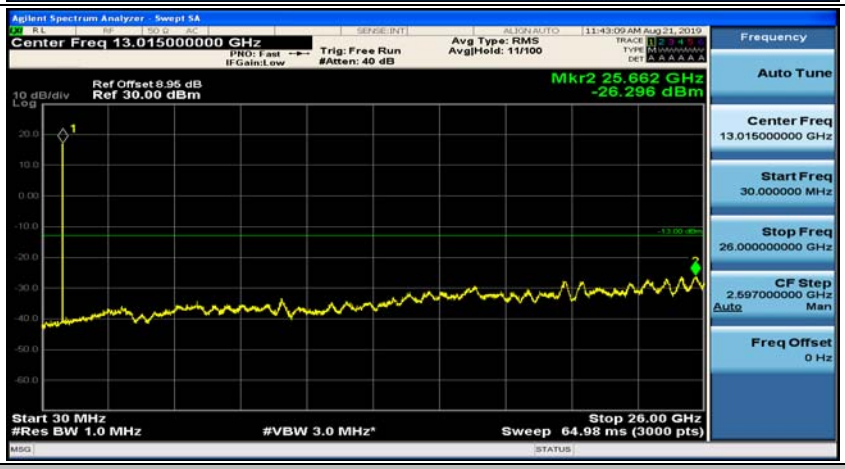

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
11:41:25 AM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-59.191 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 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: 10/100
11:41:31 AM Aug 21, 2019
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.645 GHz
-26.130 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

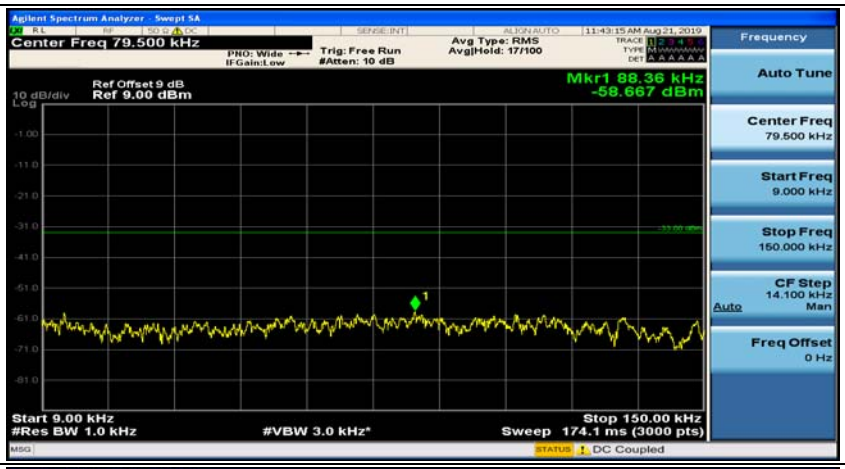
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

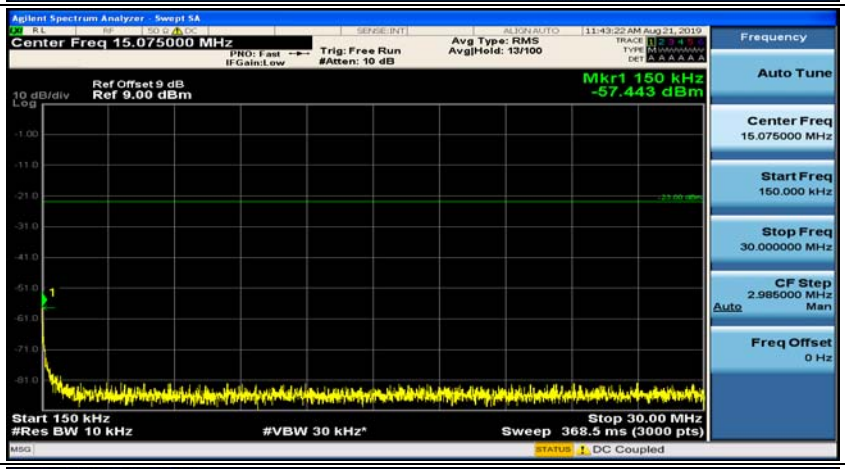


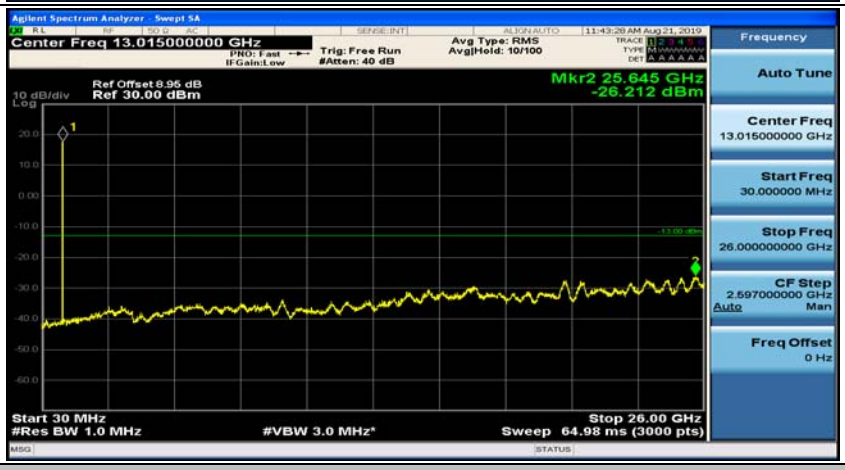




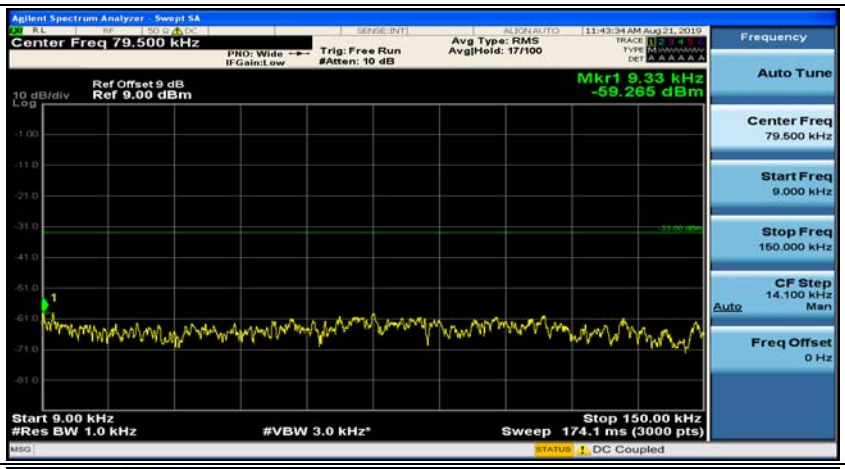
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

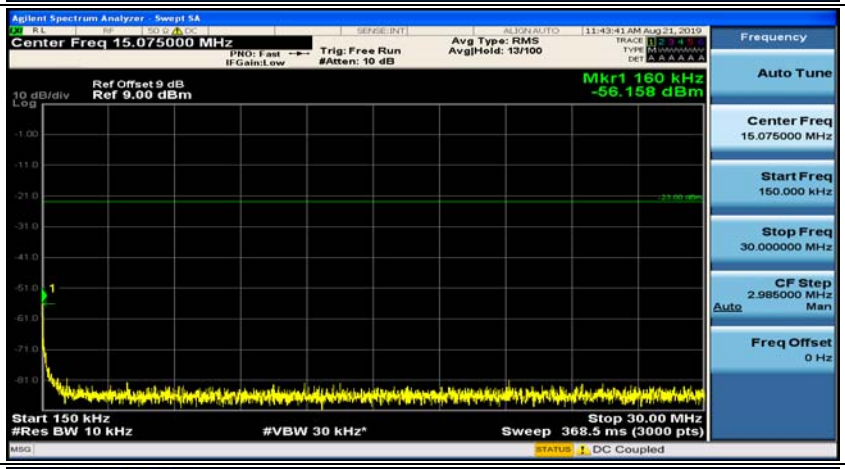


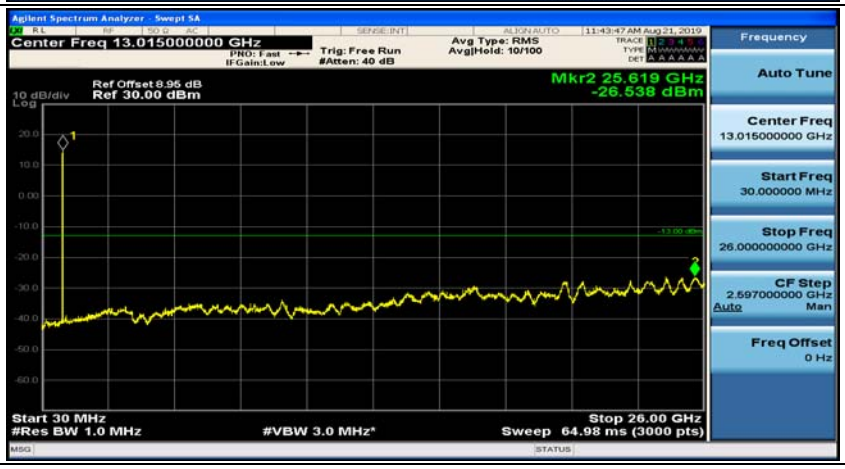




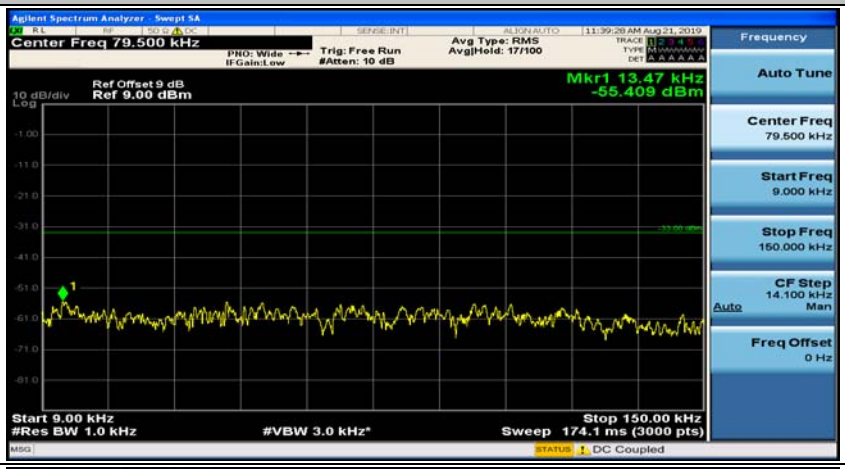
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24

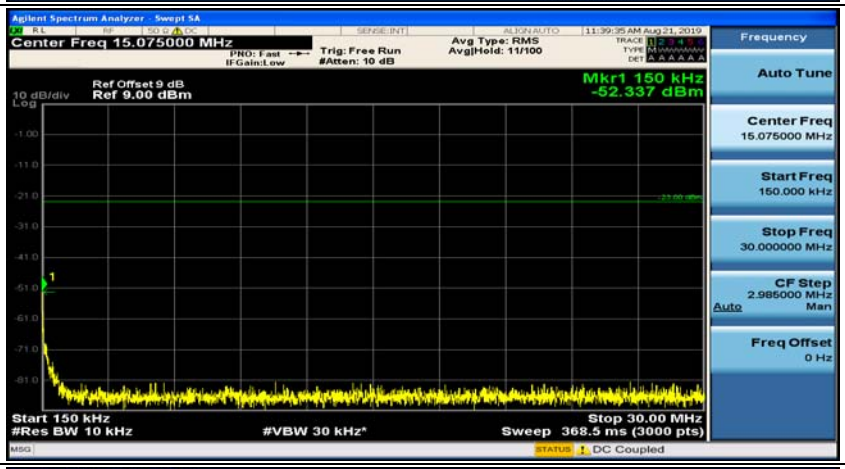

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
11:43:34 AM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 9.33 kHz
-59.265 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 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

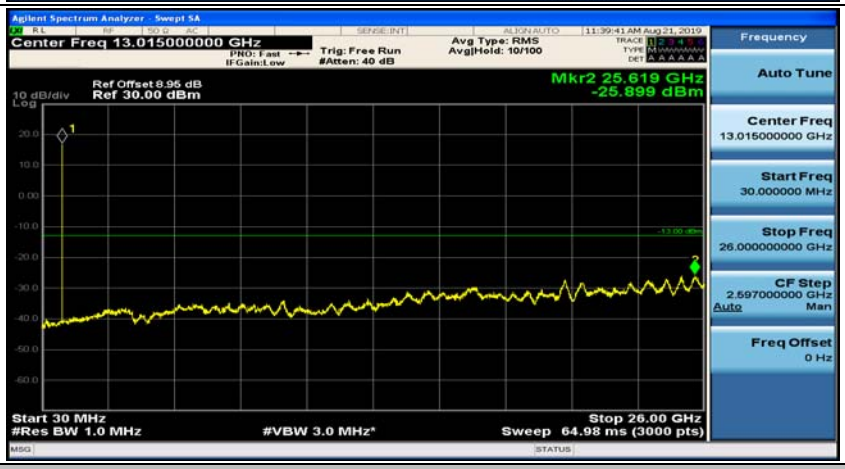

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 13/100
11:43:41 AM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 160 kHz
-56.158 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 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: 10/100
11:43:47 AM Aug 21, 2019
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.619 GHz
-26.538 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

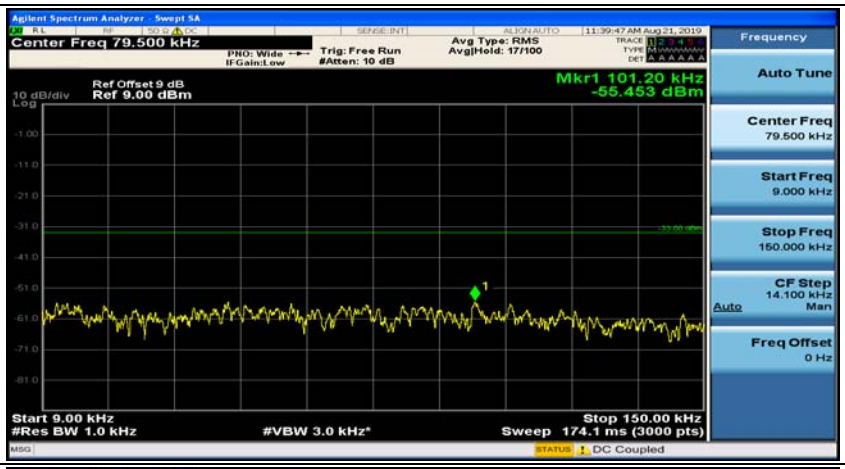
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

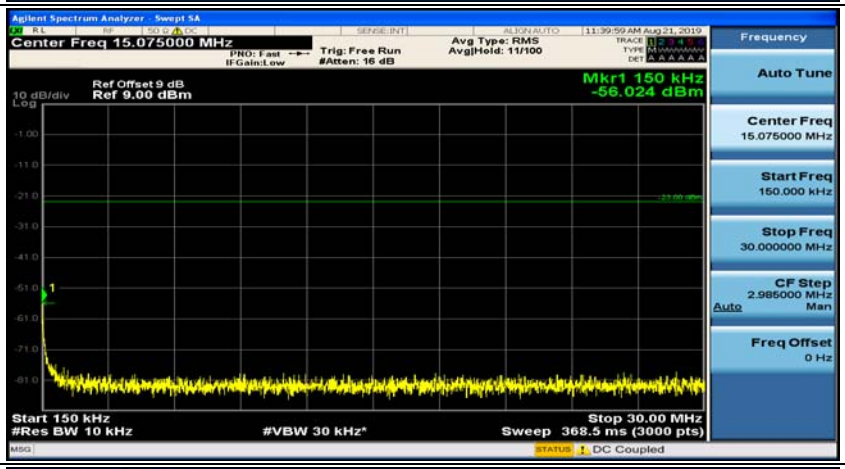


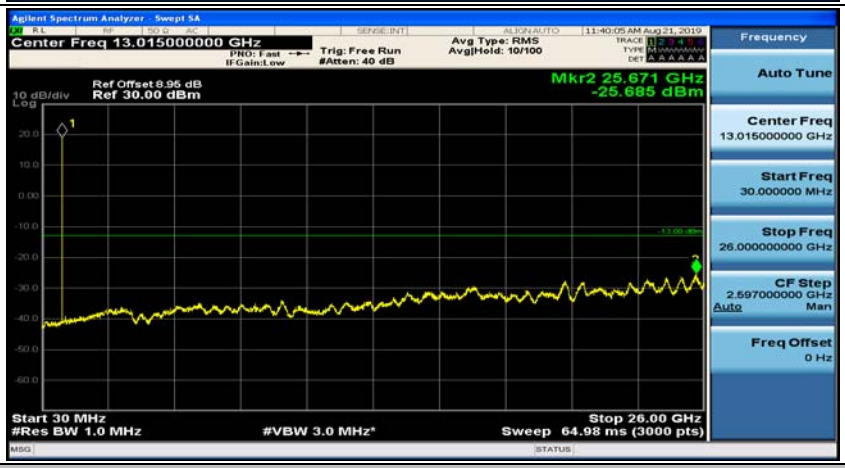




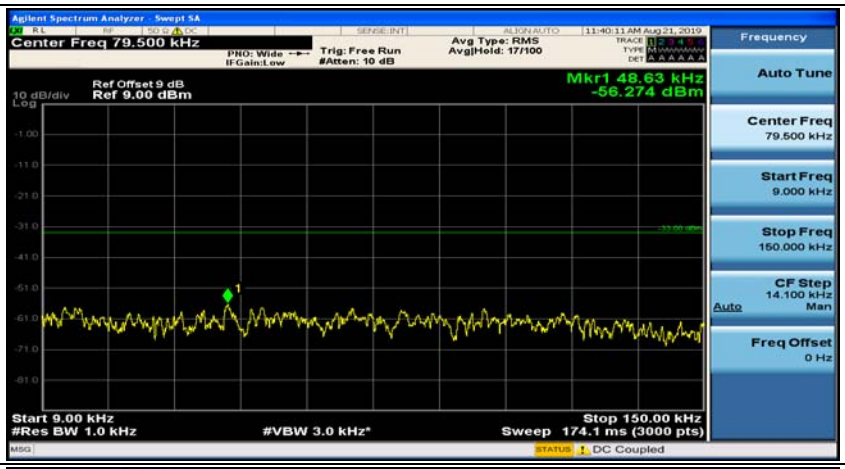
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12

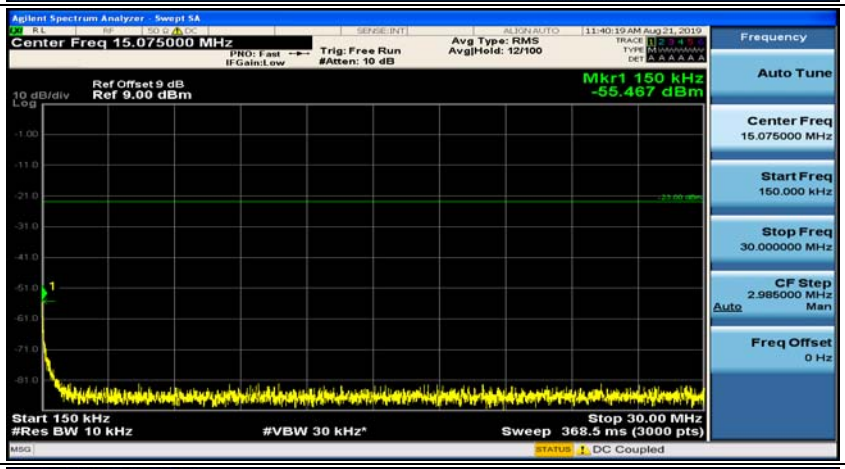


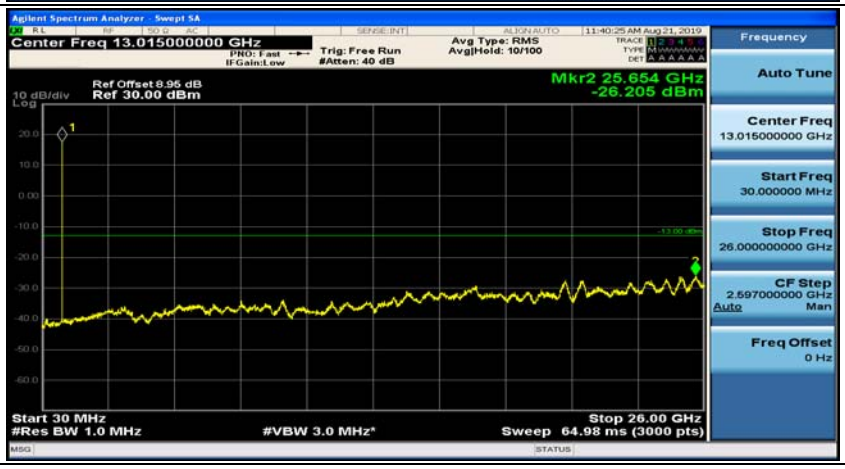




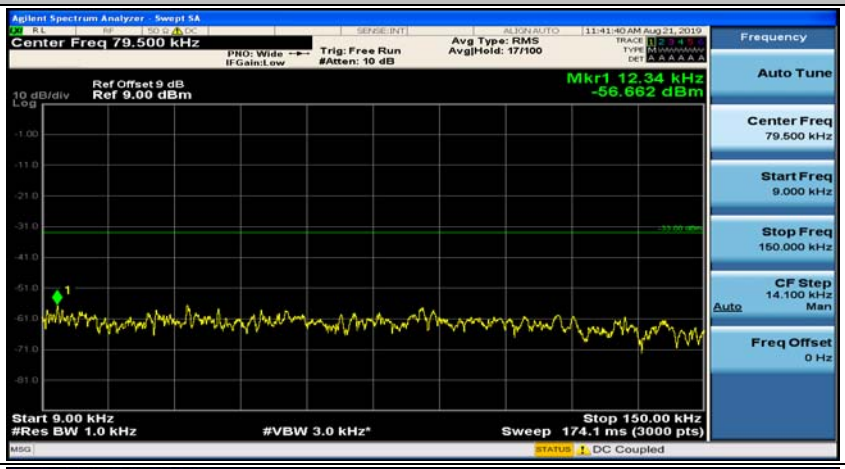
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24

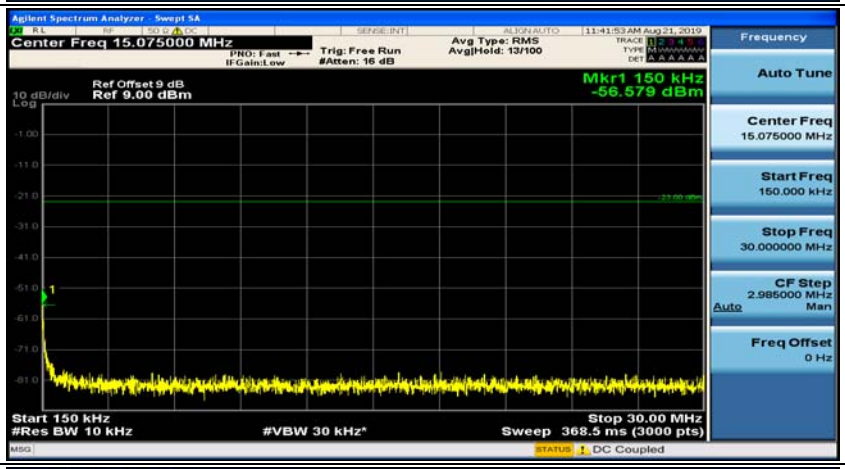

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
11:40:11 AM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 48.63 kHz
-56.274 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 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

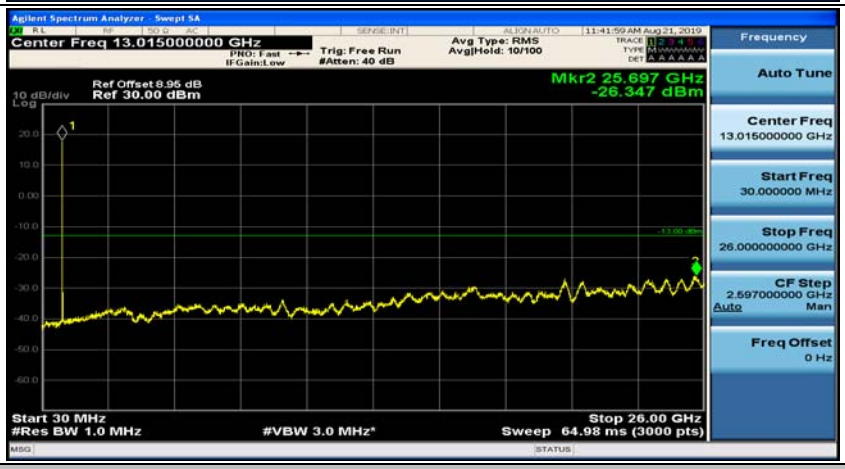

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 12/100
11:40:19 AM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-55.467 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 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: 10/100
11:40:25 AM Aug 21, 2019
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.654 GHz
-26.205 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

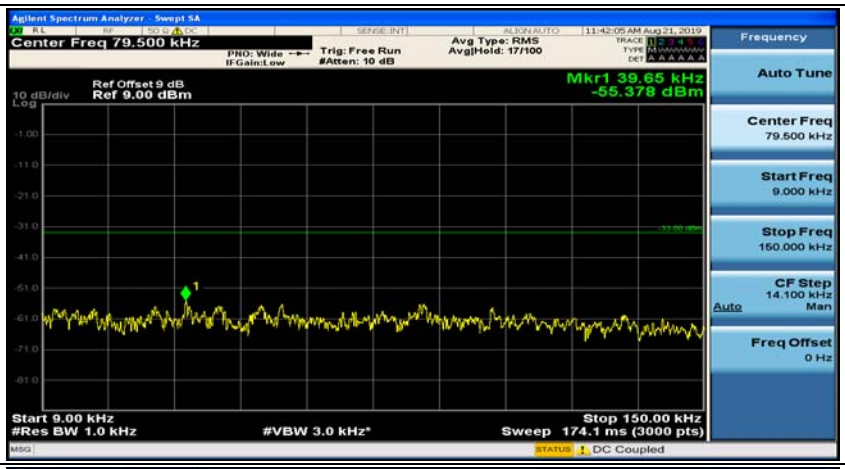
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

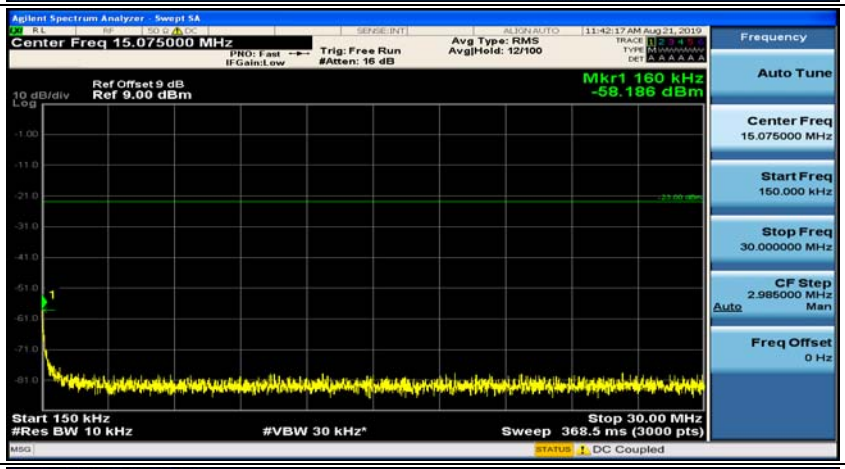


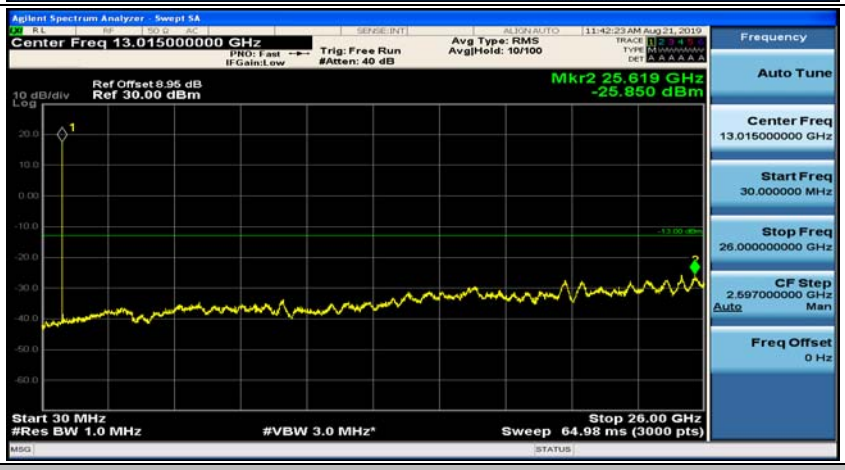




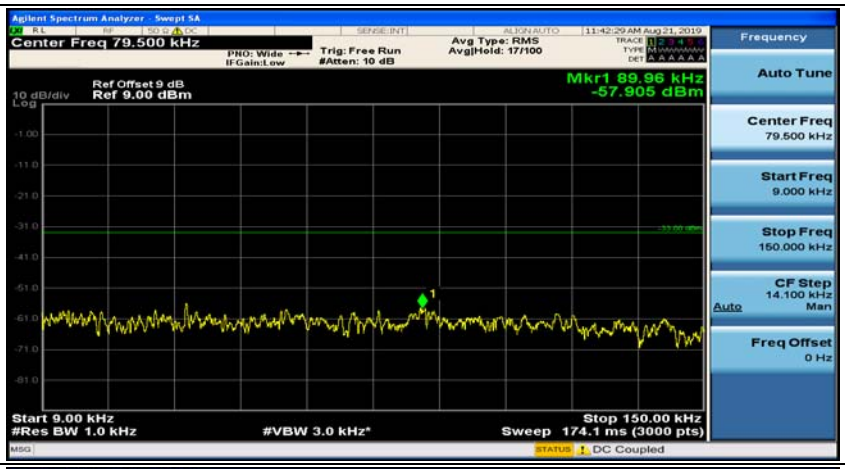
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

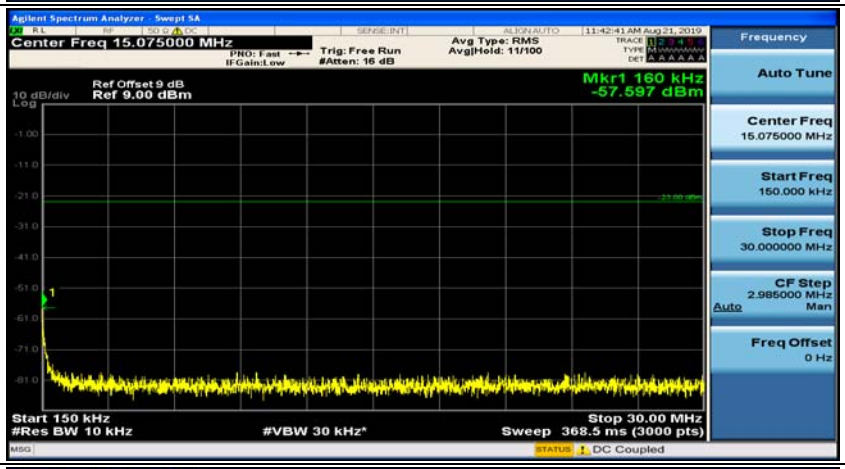


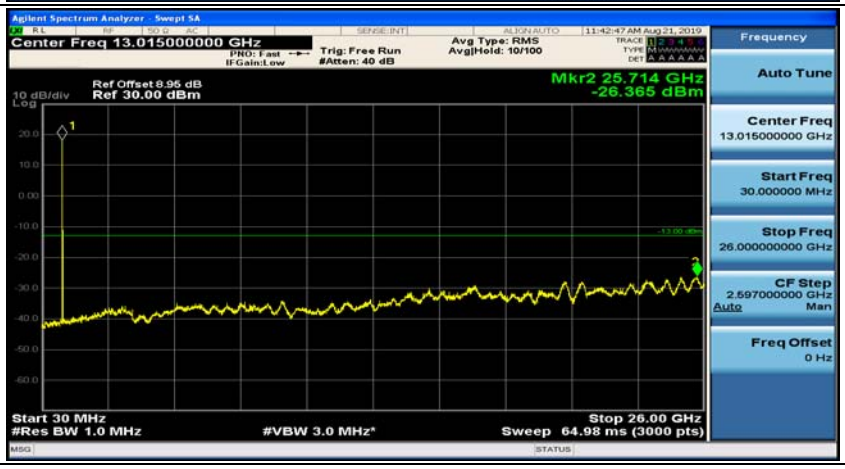




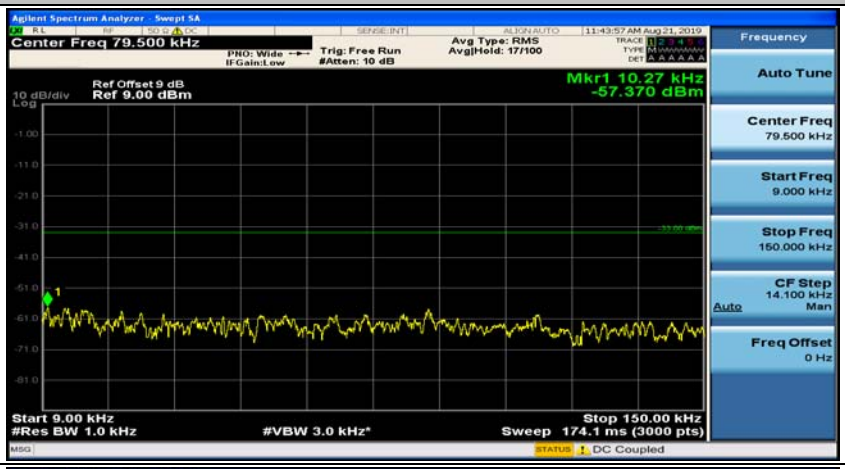
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24

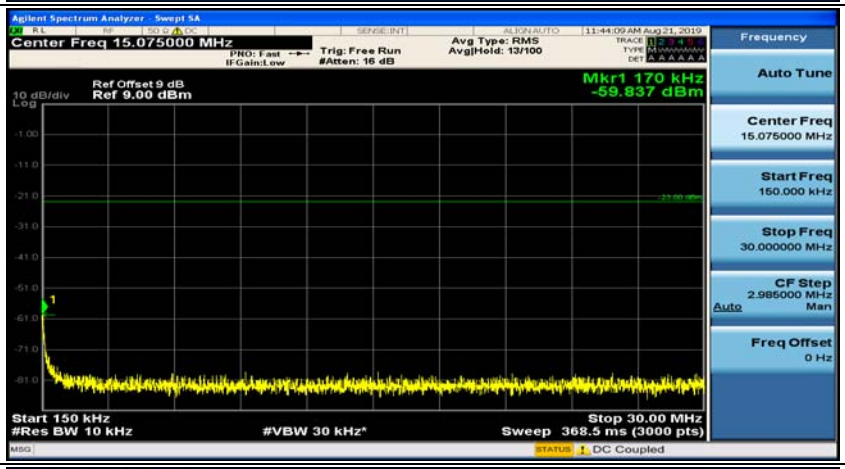

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
11:42:29 AM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 89.96 kHz
-57.905 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz

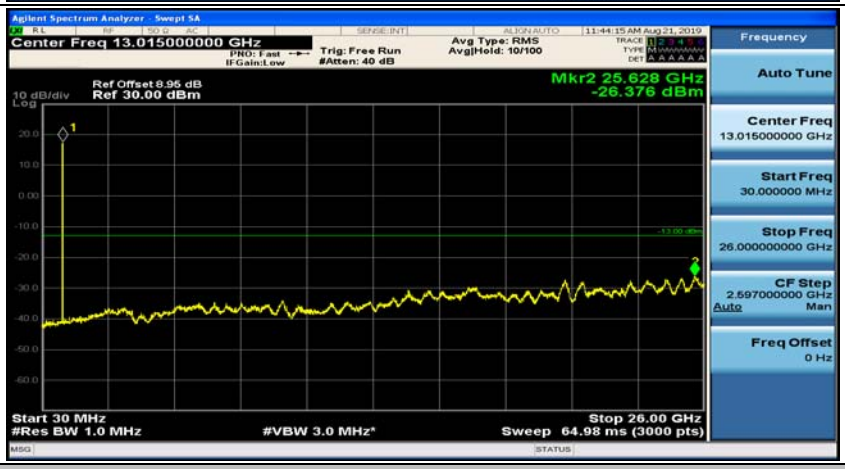

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 11/100
11:42:41 AM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 160 kHz
-57.597 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 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: 10/100
11:42:47 AM Aug 21, 2019
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.714 GHz
-26.365 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

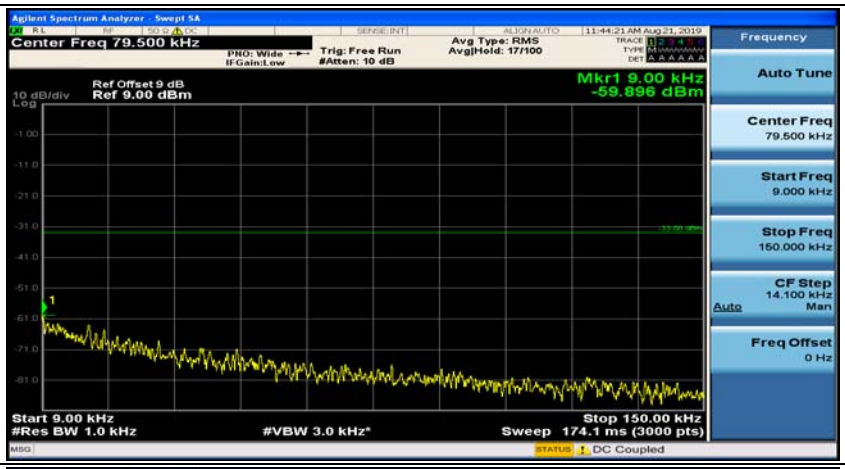
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

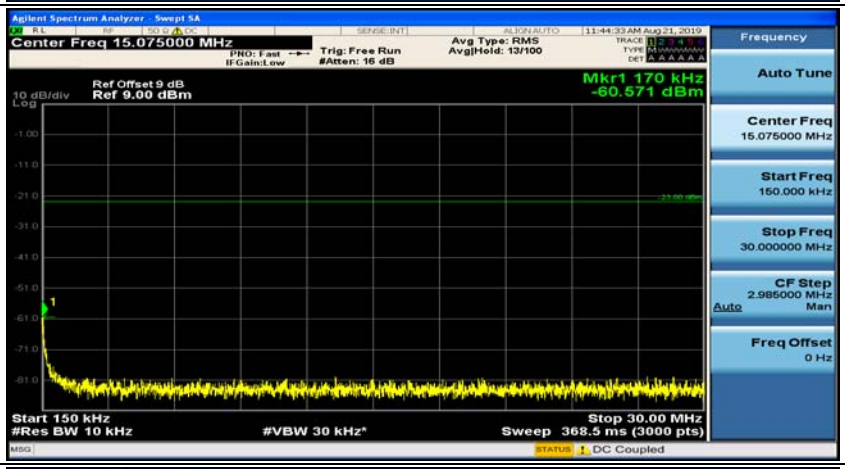


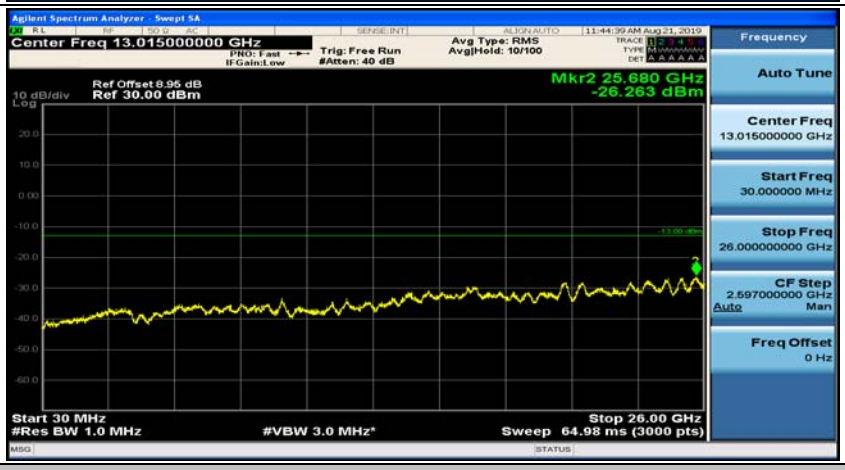




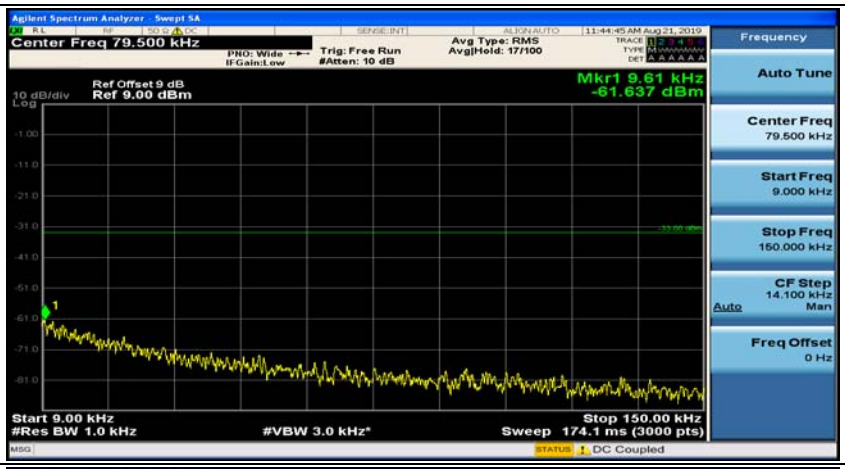
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

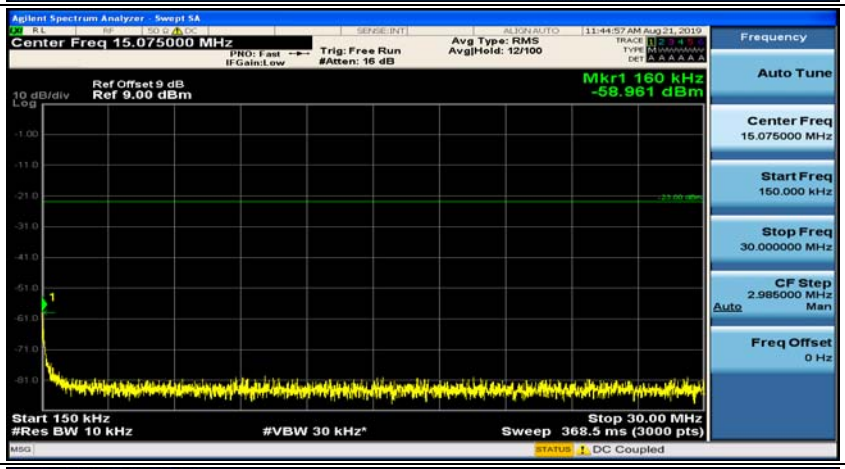


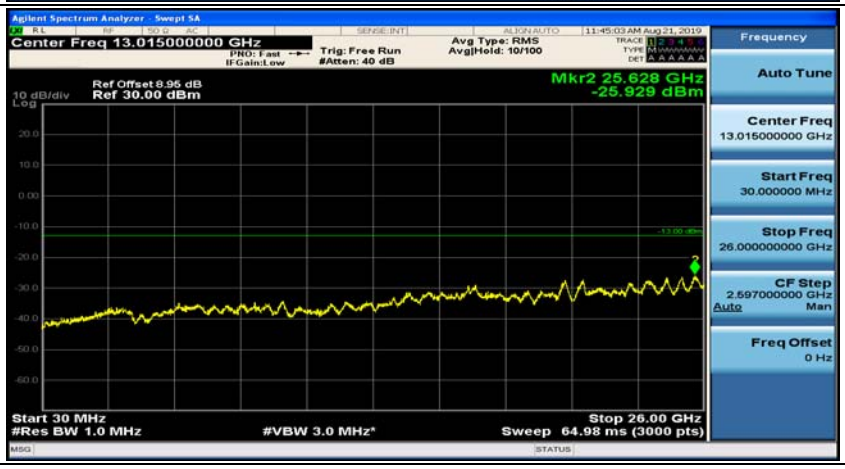




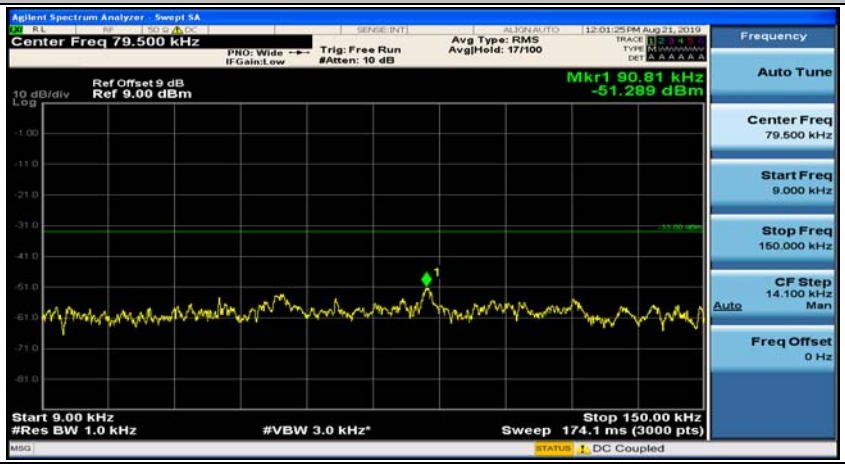
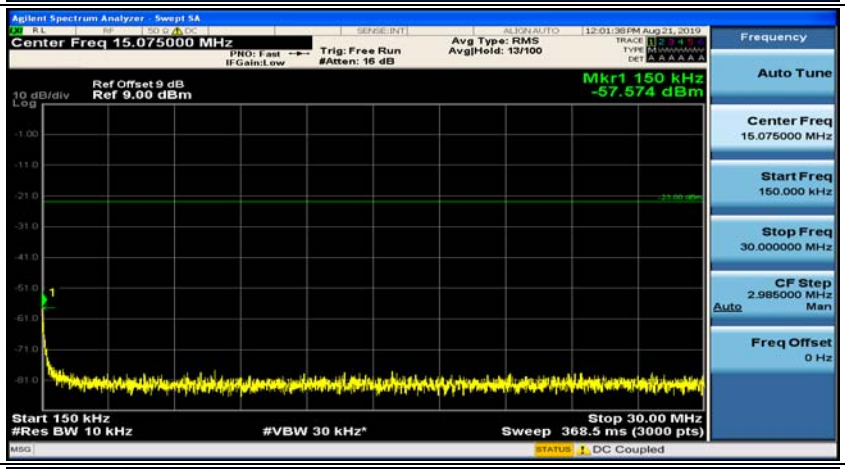
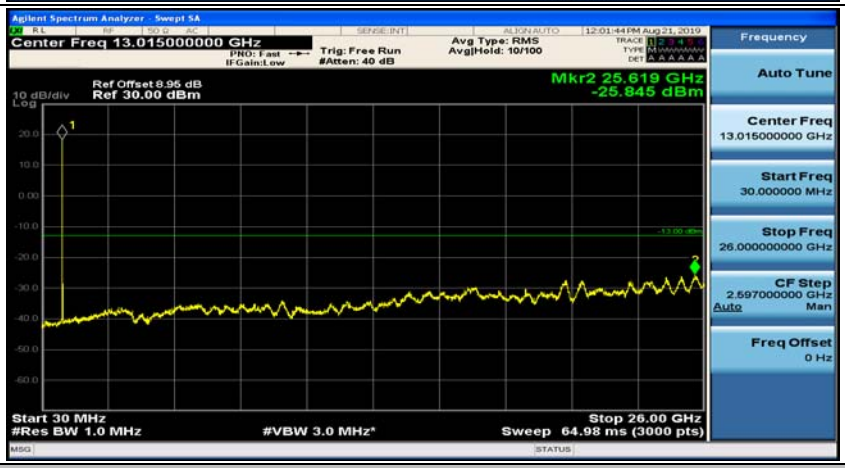
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24

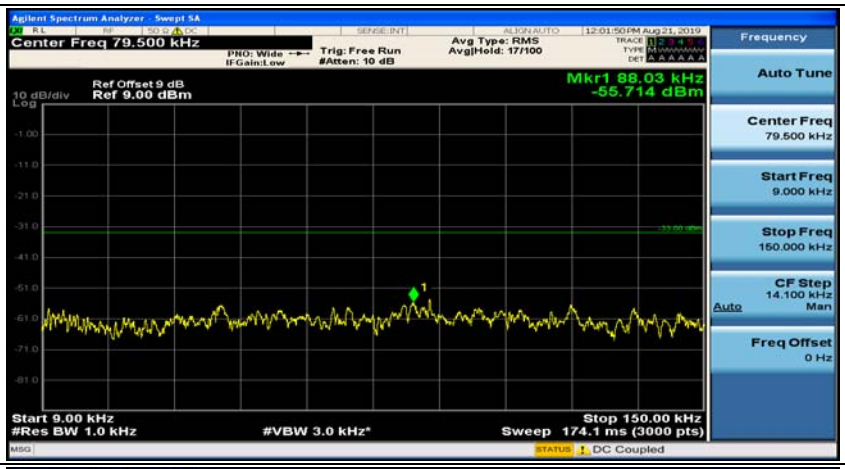

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
11:44:45 AM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 9.61 kHz
-61.637 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 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

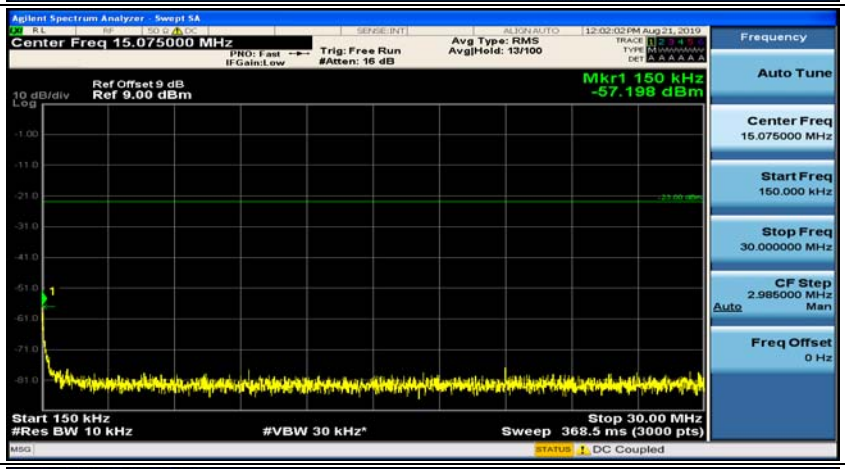

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
11:44:57 AM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 160 kHz
-58.961 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 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

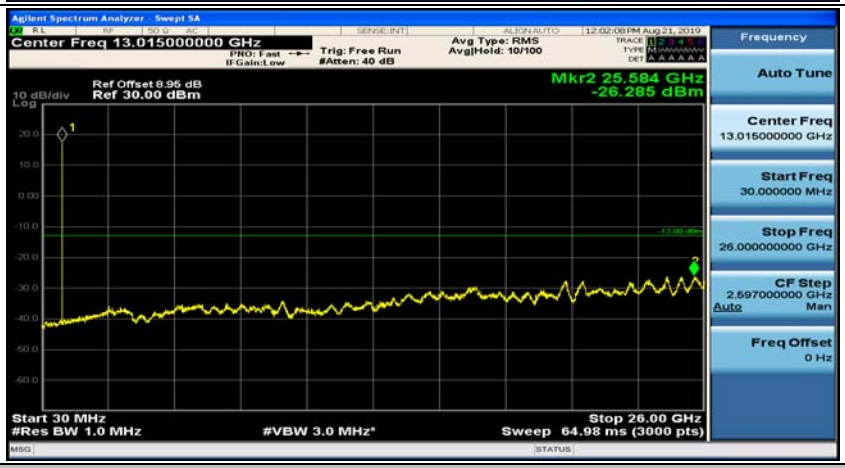

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 10/100
11:45:03 AM Aug 21, 2019
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.628 GHz
-25.929 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
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

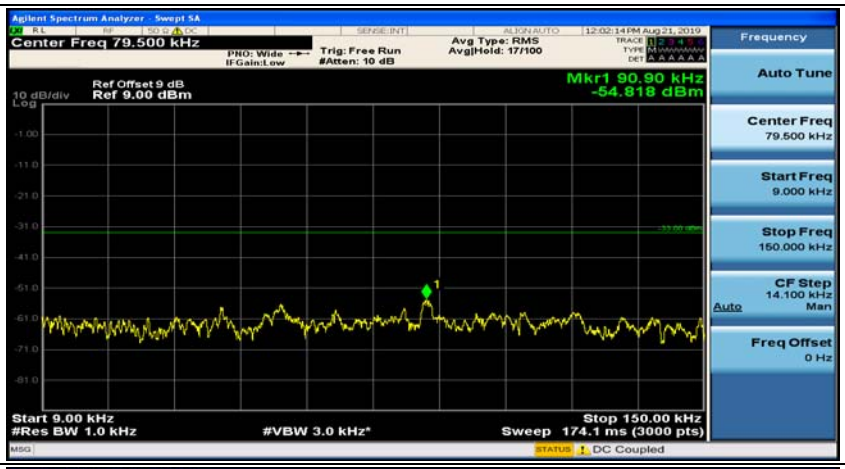
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24

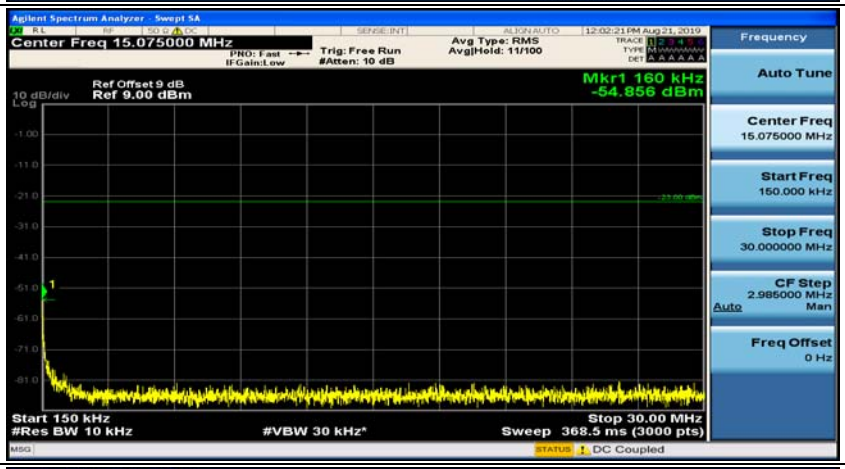


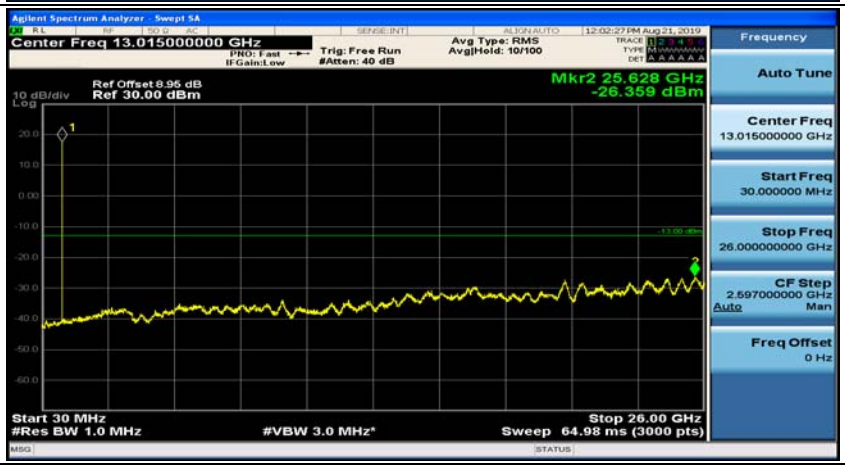


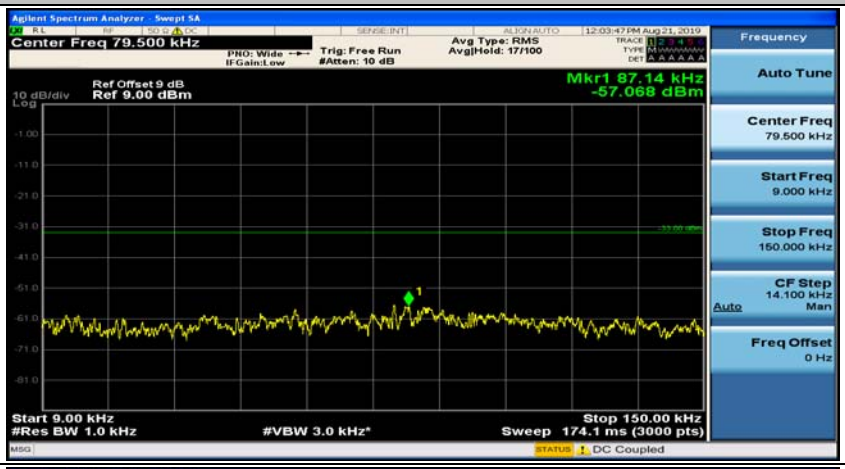
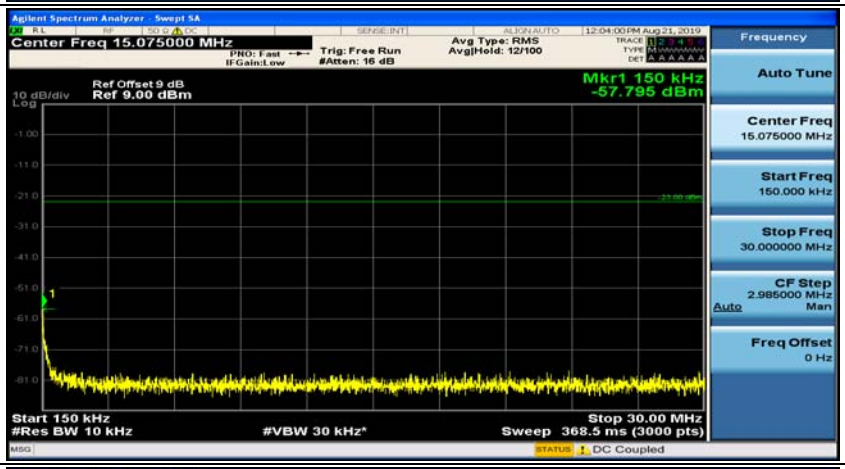
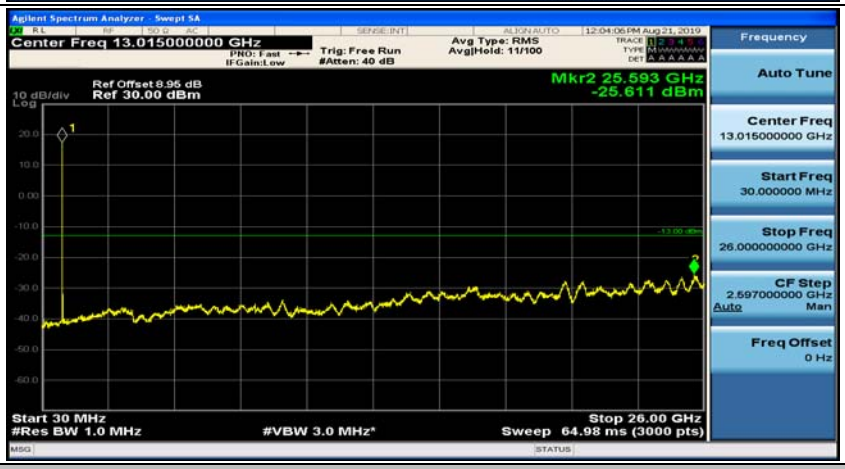


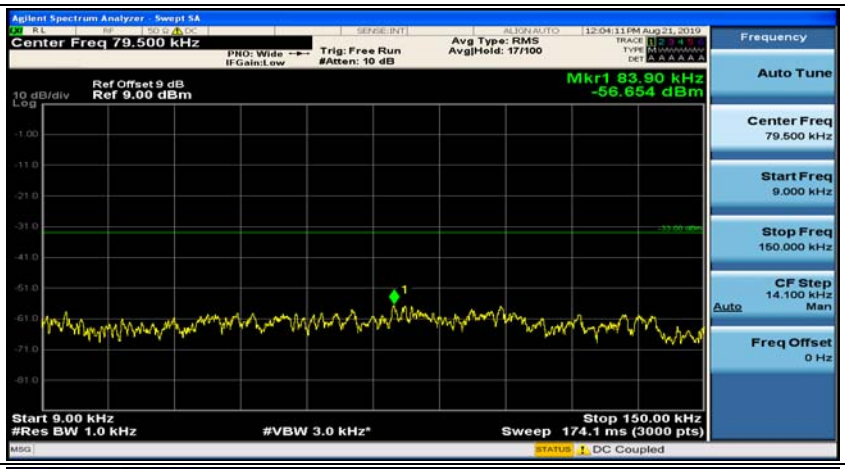
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49

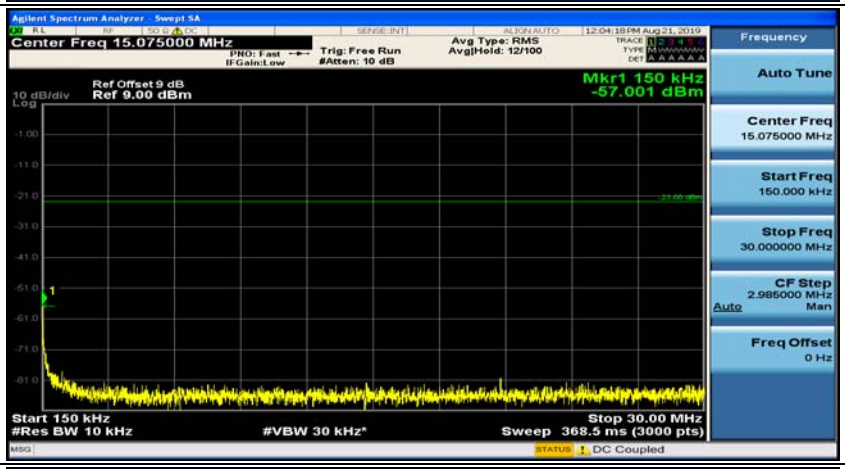

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
12:02:14 PM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 90.90 kHz
-54.818 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 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
12:02:21 PM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 160 kHz
-54.856 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

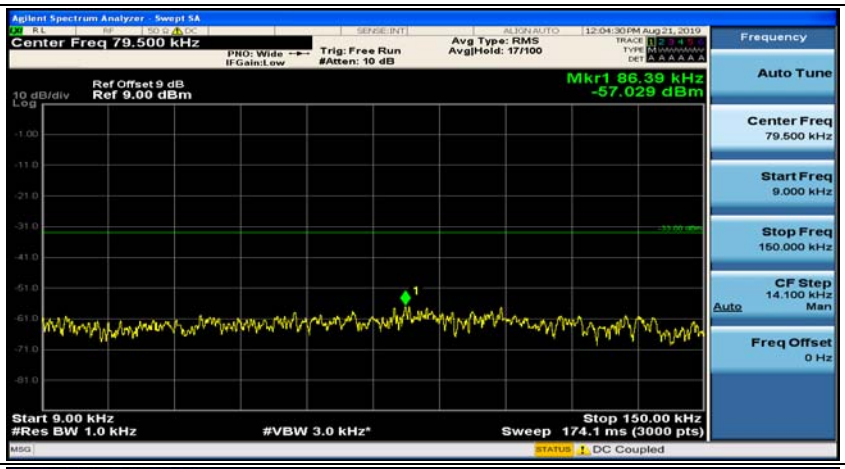

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 10/100
12:02:27 PM Aug 21, 2019
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.628 GHz
-26.359 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
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

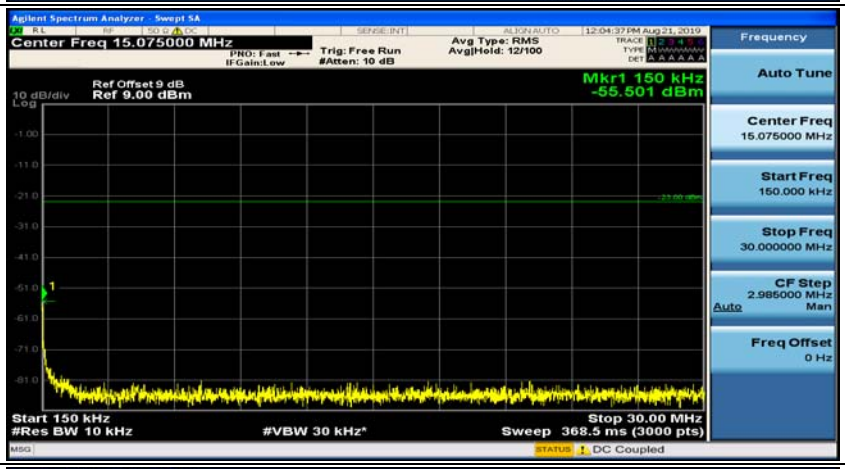
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24

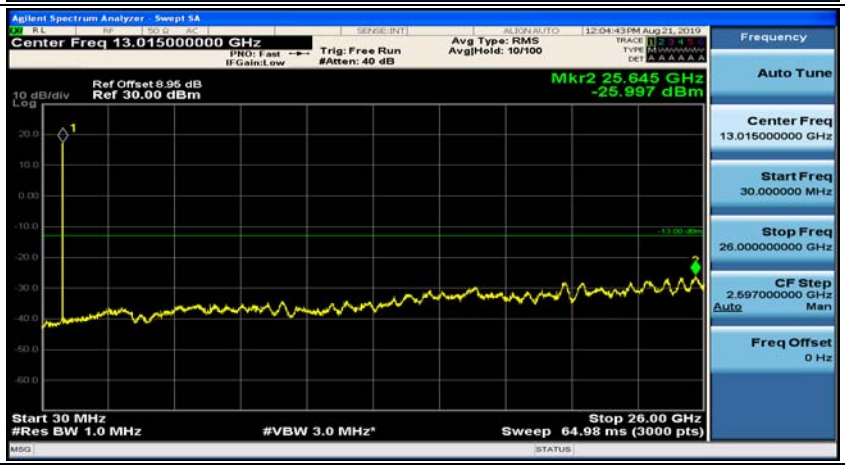


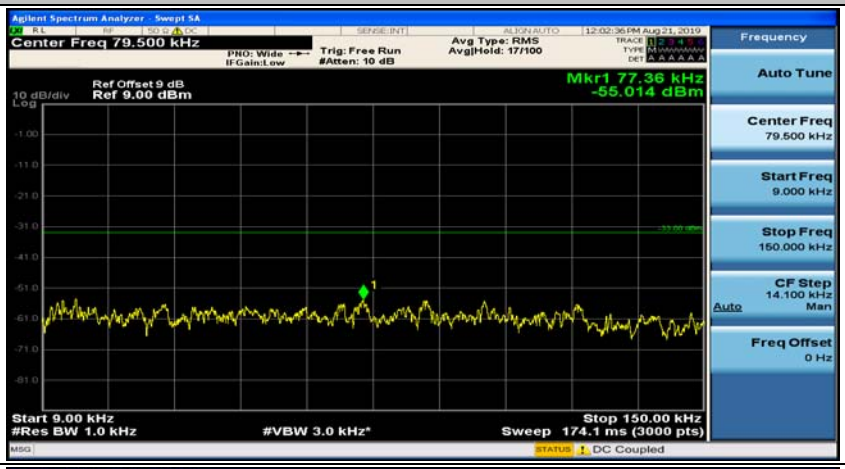
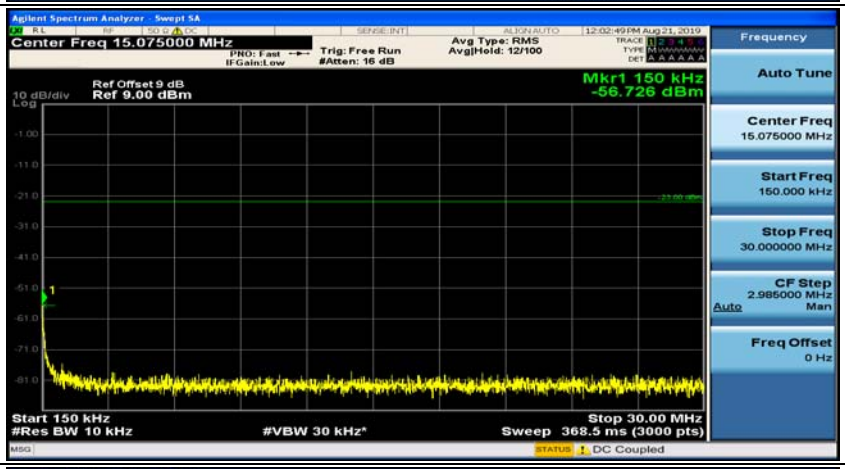
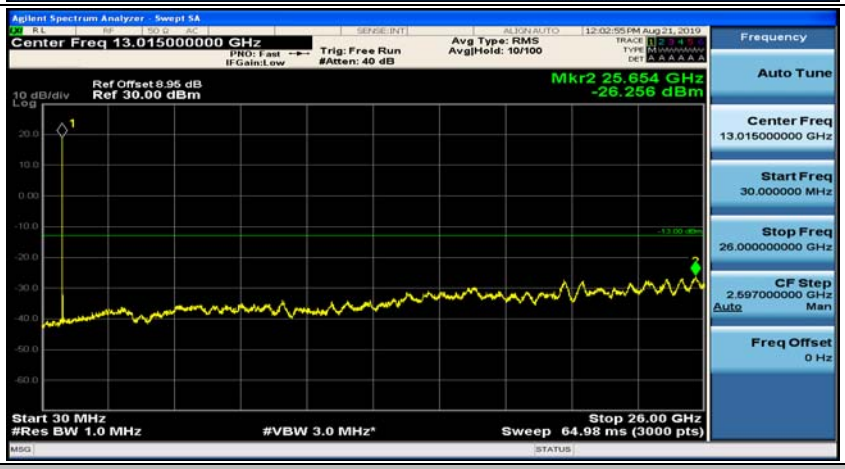


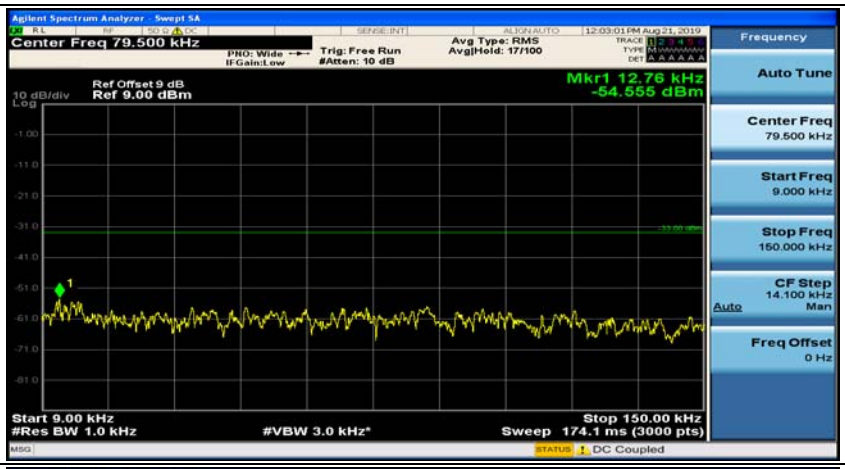
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49

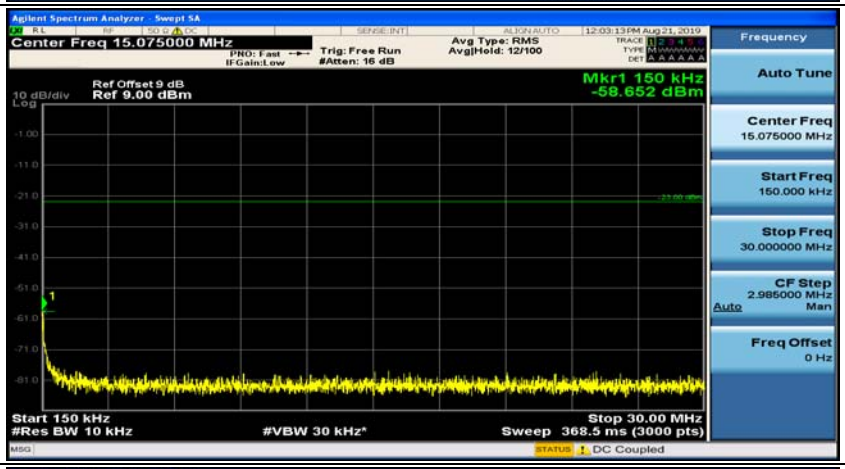

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
12:04:30PM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 86.39 kHz
-57.029 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 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

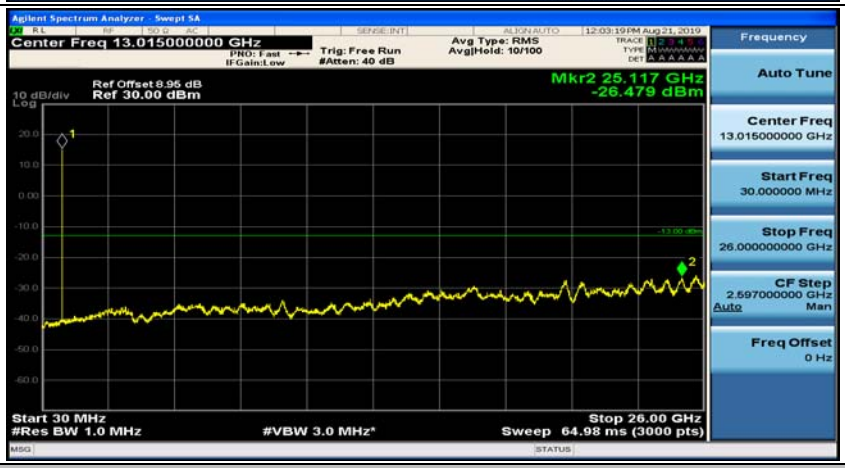

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 12/100
12:04:37PM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-55.501 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 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: 10/100
12:04:43PM Aug 21, 2019
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.645 GHz
-25.997 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

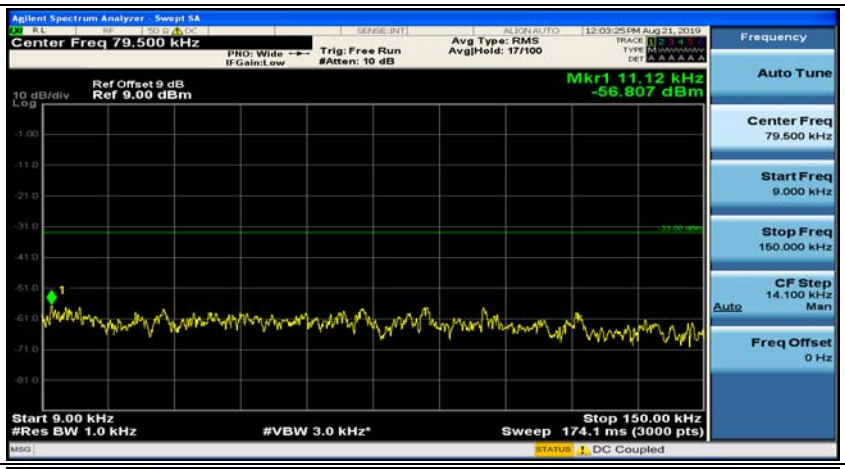
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24

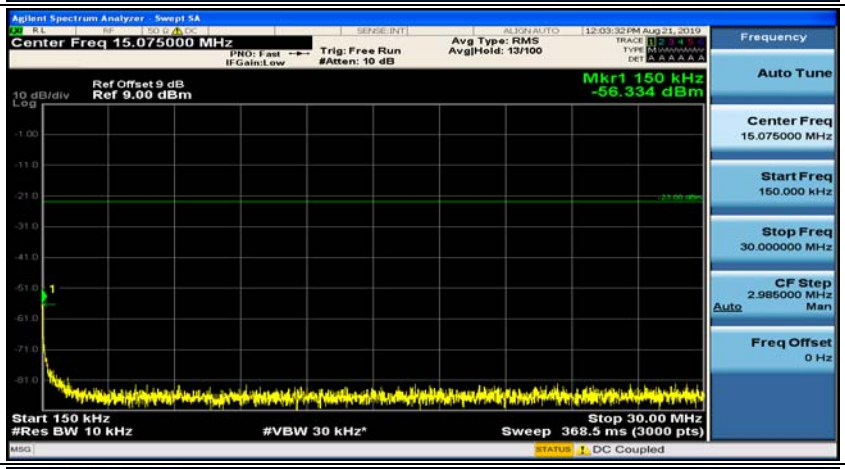


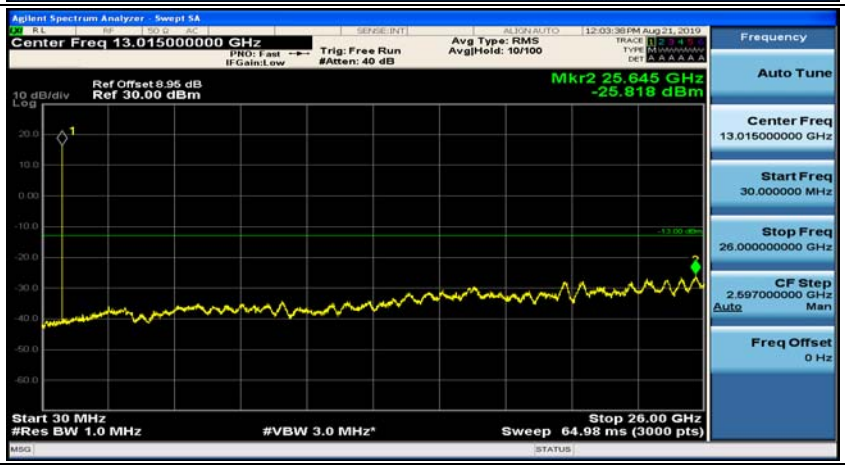


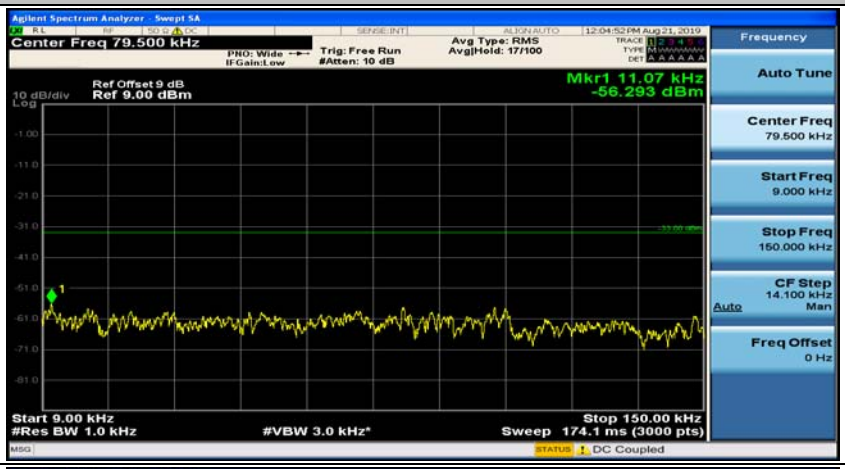
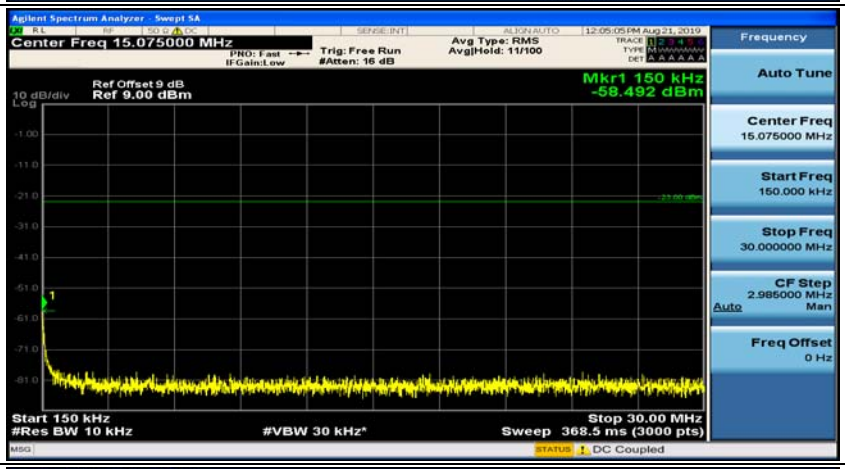
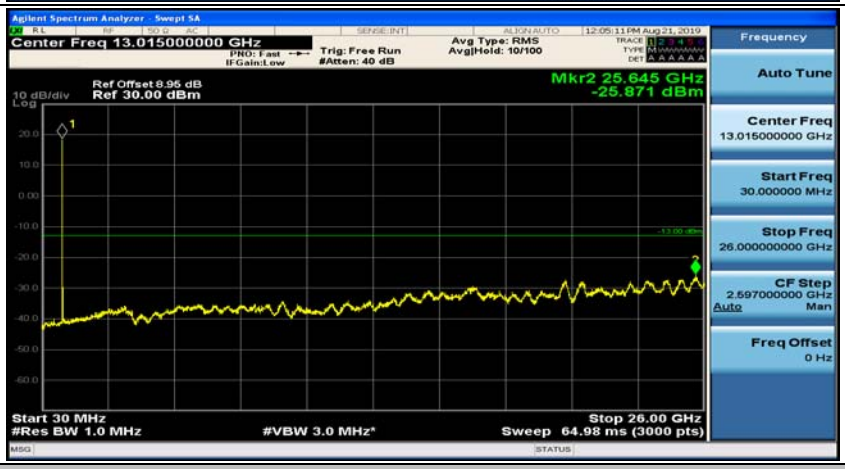


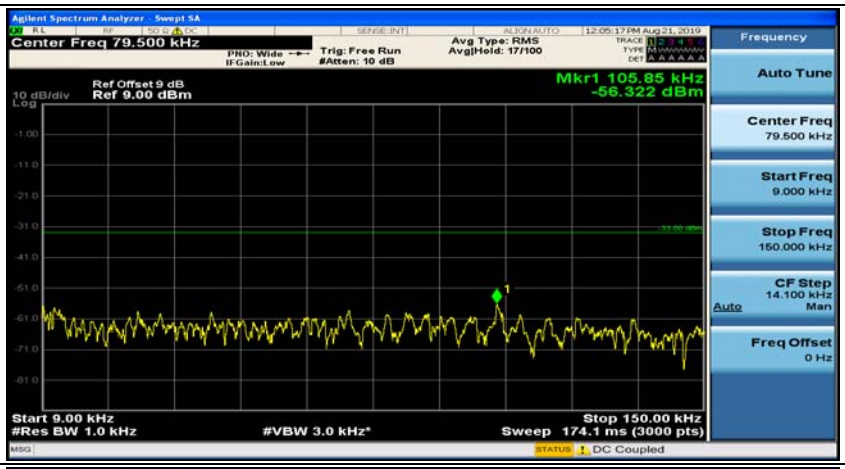
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49

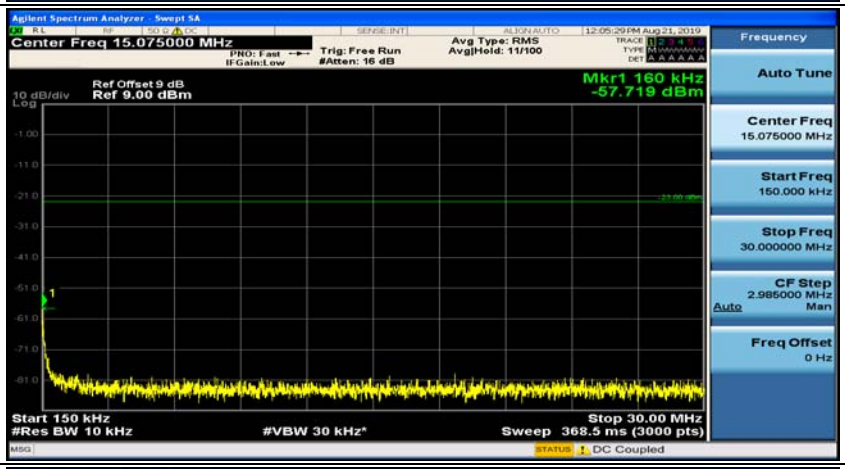

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
12:03:25PM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 11.12 kHz
-56.807 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 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

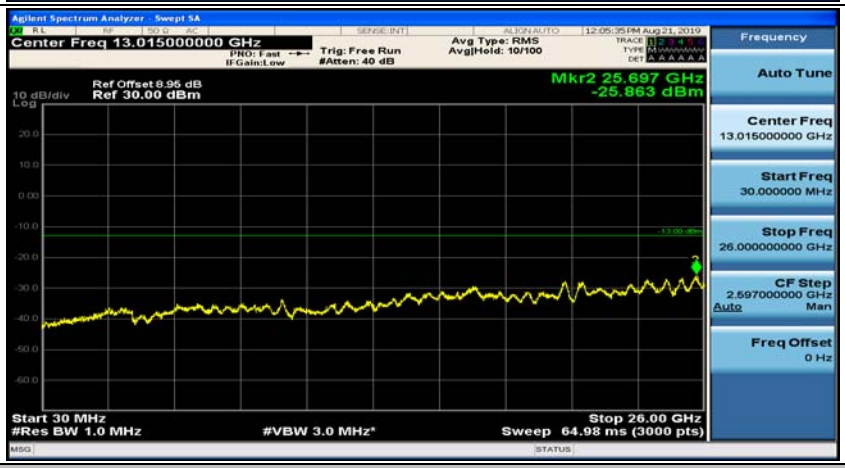

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 13/100
12:03:32PM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-56.334 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 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: 10/100
12:03:38PM Aug 21, 2019
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.645 GHz
-25.818 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

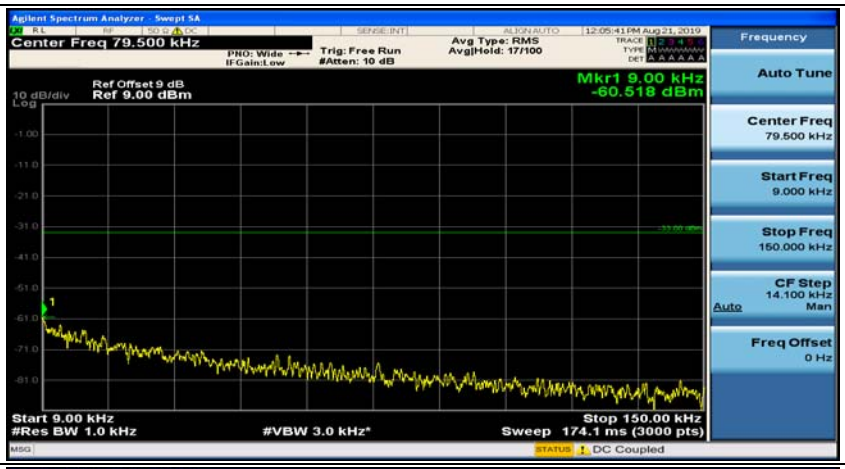
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

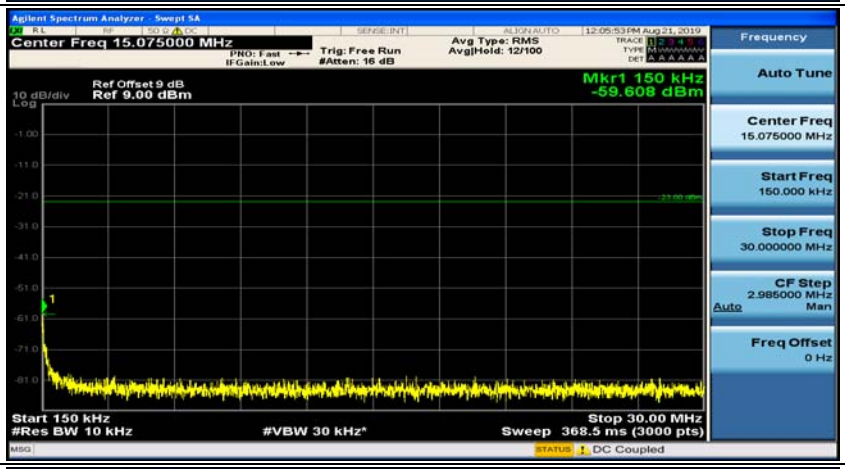


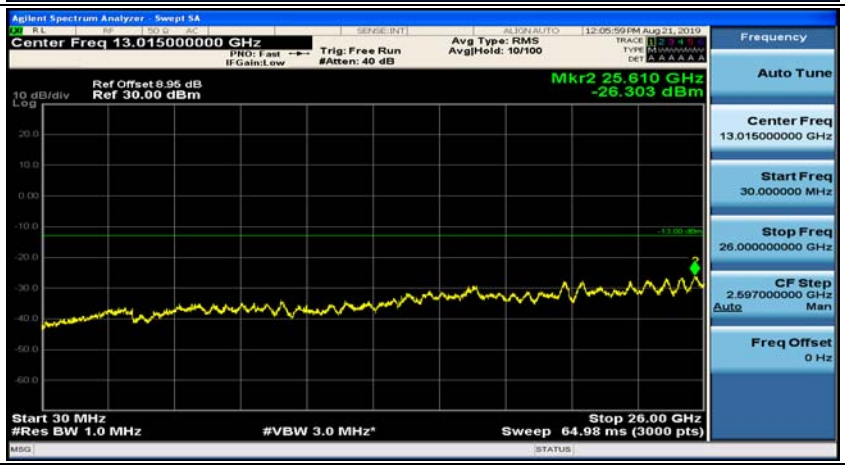


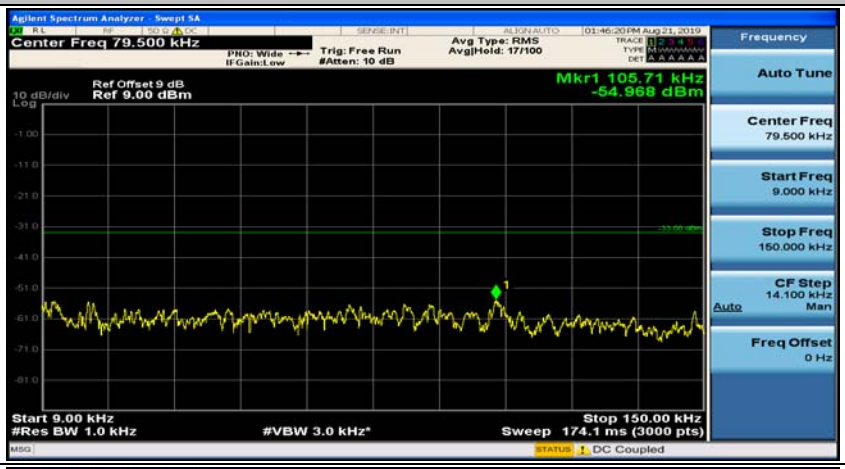
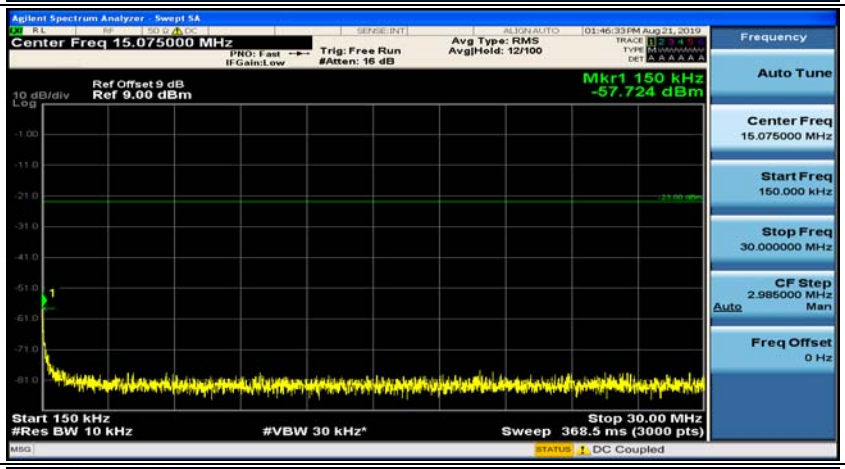
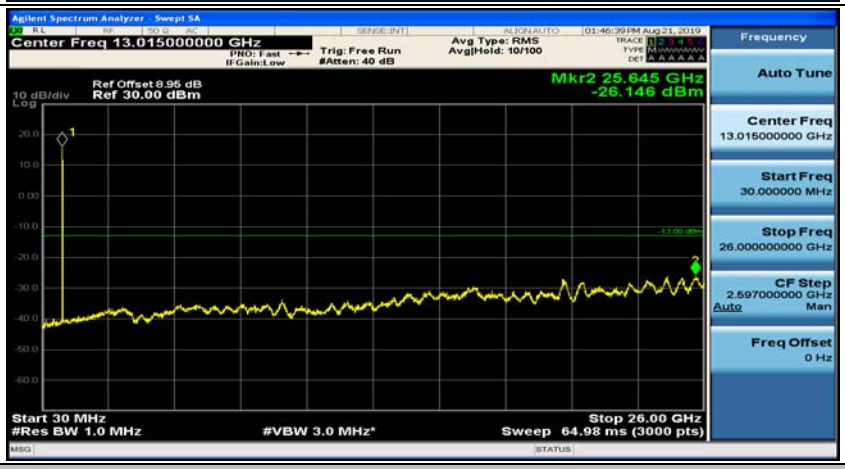


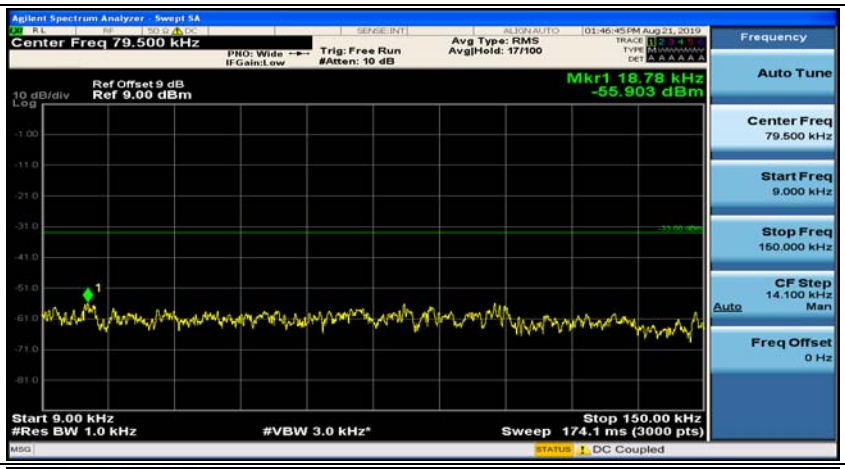
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49

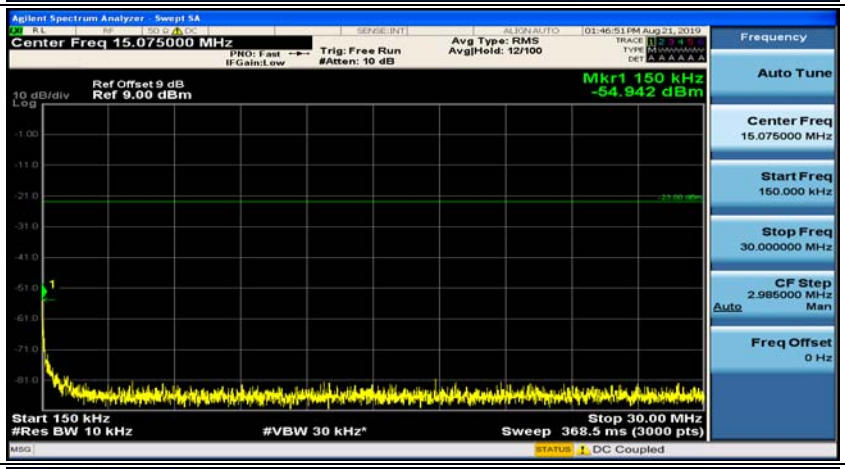

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
12:05:41 PM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 9.00 kHz
-60.518 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 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

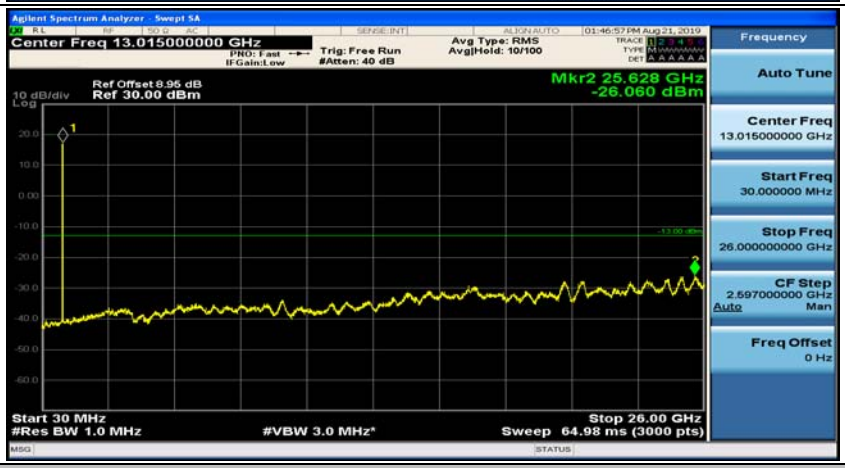

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
12:05:53 PM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-59.608 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 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: 10/100
12:05:59 PM Aug 21, 2019
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.610 GHz
-26.303 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

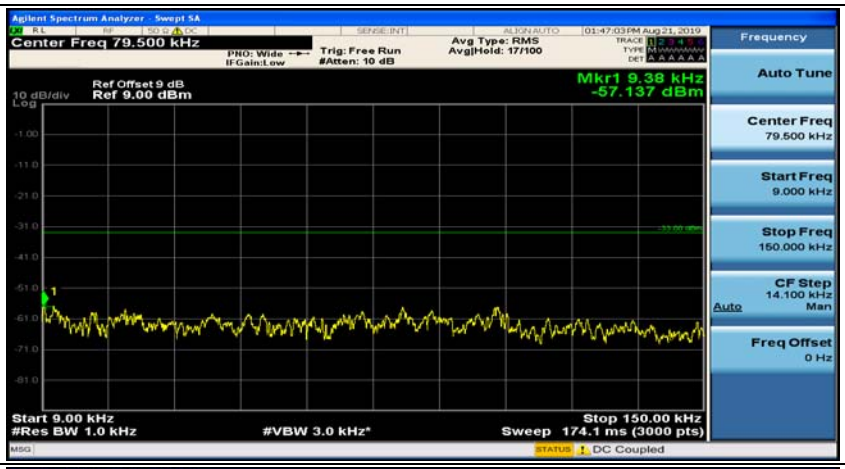
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24

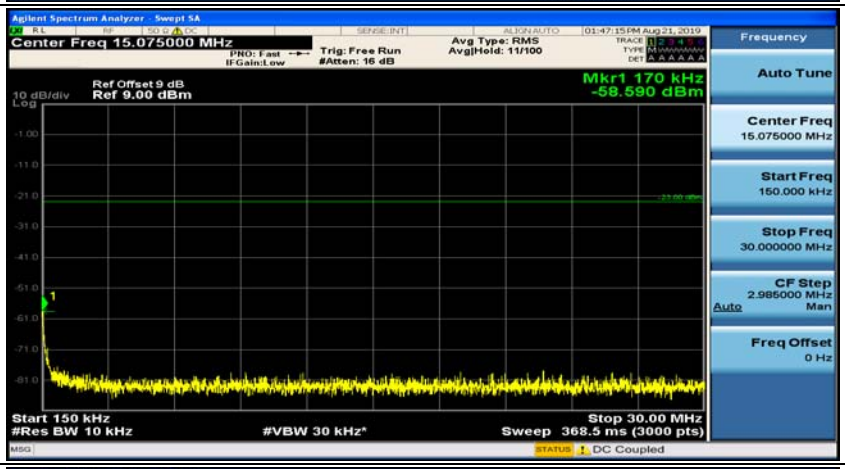


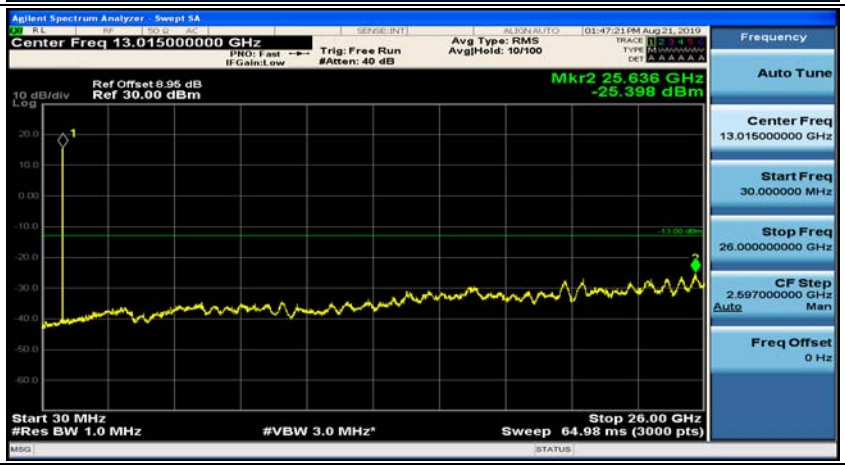




Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49


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
01:47:03PM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 9.38 kHz
-57.137 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 11/100
01:47:15PM Aug 21, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 170 kHz
-58.590 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: 10/100
01:47:21PM Aug 21, 2019
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.636 GHz
-25.398 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

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	-0.5	-0.000606	± 2.5	PASS
		VN	TN	4.3	0.005214	± 2.5	PASS
		VH	TN	-0.07	-0.000085	± 2.5	PASS
	MCH	VL	TN	-2	-0.002391	± 2.5	PASS
		VN	TN	-1.19	-0.001423	± 2.5	PASS
		VH	TN	1.09	0.001303	± 2.5	PASS
	HCH	VL	TN	0.82	0.000967	± 2.5	PASS
		VN	TN	1.75	0.002063	± 2.5	PASS
		VH	TN	2.31	0.002723	± 2.5	PASS
16QAM	LCH	VL	TN	-0.94	-0.001140	± 2.5	PASS
		VN	TN	-0.27	-0.000327	± 2.5	PASS
		VH	TN	4.75	0.005760	± 2.5	PASS
	MCH	VL	TN	1.16	0.001387	± 2.5	PASS
		VN	TN	0.18	0.000215	± 2.5	PASS
		VH	TN	0.57	0.000681	± 2.5	PASS
	HCH	VL	TN	-0.81	-0.000955	± 2.5	PASS
		VN	TN	2.33	0.002747	± 2.5	PASS
		VH	TN	0.18	0.000212	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.65	0.003213	± 2.5	PASS
		VN	-20	1.6	0.001940	± 2.5	PASS
		VN	-10	-1.13	-0.001370	± 2.5	PASS
		VN	0	4.73	0.005735	± 2.5	PASS
		VN	10	3.55	0.004305	± 2.5	PASS
		VN	20	4.51	0.005469	± 2.5	PASS
		VN	30	0.94	0.001140	± 2.5	PASS
		VN	40	0.73	0.000885	± 2.5	PASS
		VN	50	0.13	0.000158	± 2.5	PASS
	MCH	VN	-30	2.45	0.002929	± 2.5	PASS

		VN	-20	0.76	0.000909	± 2.5	PASS
		VN	-10	2.7	0.003228	± 2.5	PASS
		VN	0	4.04	0.004830	± 2.5	PASS
		VN	10	0	0.000000	± 2.5	PASS
		VN	20	1.72	0.002056	± 2.5	PASS
		VN	30	2	0.002391	± 2.5	PASS
		VN	40	0.58	0.000693	± 2.5	PASS
		VN	50	-1.24	-0.001482	± 2.5	PASS
	HCH	VN	-30	2.41	0.002841	± 2.5	PASS
		VN	-20	-1.66	-0.001957	± 2.5	PASS
		VN	-10	4.47	0.005269	± 2.5	PASS
		VN	0	-0.7	-0.000825	± 2.5	PASS
		VN	10	1.58	0.001863	± 2.5	PASS
		VN	20	3.03	0.003572	± 2.5	PASS
		VN	30	2.65	0.003124	± 2.5	PASS
		VN	40	4.4	0.005187	± 2.5	PASS
		VN	50	1.81	0.002134	± 2.5	PASS
16QAM	LCH	VN	-30	0.55	0.000667	± 2.5	PASS
		VN	-20	0.93	0.001128	± 2.5	PASS
		VN	-10	-0.66	-0.000800	± 2.5	PASS
		VN	0	4.38	0.005311	± 2.5	PASS
		VN	10	0.16	0.000194	± 2.5	PASS
		VN	20	0.63	0.000764	± 2.5	PASS
		VN	30	3.99	0.004838	± 2.5	PASS
		VN	40	-1.09	-0.001322	± 2.5	PASS
		VN	50	2.87	0.003480	± 2.5	PASS
	MCH	VN	-30	2.78	0.003277	± 2.5	PASS
		VN	-20	4.14	0.004880	± 2.5	PASS
		VN	-10	2.93	0.003454	± 2.5	PASS
		VN	0	2.88	0.003395	± 2.5	PASS
		VN	10	3.77	0.004444	± 2.5	PASS
		VN	20	4.14	0.004880	± 2.5	PASS
		VN	30	-0.5	-0.000589	± 2.5	PASS
		VN	40	3.38	0.003984	± 2.5	PASS
		VN	50	-0.98	-0.001155	± 2.5	PASS
	HCH	VN	-30	3.44	0.004055	± 2.5	PASS
		VN	-20	-0.89	-0.001049	± 2.5	PASS
		VN	-10	0.58	0.000684	± 2.5	PASS
		VN	0	1.28	0.001509	± 2.5	PASS
		VN	10	4.18	0.004928	± 2.5	PASS
		VN	20	0.84	0.000990	± 2.5	PASS

		VN	30	4.95	0.005835	± 2.5	PASS
		VN	40	3.96	0.004668	± 2.5	PASS
		VN	50	1.46	0.001721	± 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	3.3	0.003998	± 2.5	PASS
		VN	TN	1.86	0.002253	± 2.5	PASS
		VH	TN	0.06	0.000073	± 2.5	PASS
	MCH	VL	TN	1.34	0.001602	± 2.5	PASS
		VN	TN	-0.94	-0.001124	± 2.5	PASS
		VH	TN	3.92	0.004686	± 2.5	PASS
	HCH	VL	TN	4.05	0.004779	± 2.5	PASS
		VN	TN	0.18	0.000212	± 2.5	PASS
		VH	TN	2.63	0.003103	± 2.5	PASS
16QAM	LCH	VL	TN	2.95	0.003574	± 2.5	PASS
		VN	TN	1.7	0.002059	± 2.5	PASS
		VH	TN	2.13	0.002580	± 2.5	PASS
	MCH	VL	TN	4.72	0.005643	± 2.5	PASS
		VN	TN	1.84	0.002200	± 2.5	PASS
		VH	TN	2.89	0.003455	± 2.5	PASS
	HCH	VL	TN	2.71	0.003198	± 2.5	PASS
		VN	TN	-0.99	-0.001168	± 2.5	PASS
		VH	TN	0.63	0.000743	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.78	0.003368	± 2.5	PASS
		VN	-20	0.19	0.000230	± 2.5	PASS
		VN	-10	-1.44	-0.001744	± 2.5	PASS
		VN	0	-0.4	-0.000485	± 2.5	PASS
		VN	10	1.34	0.001623	± 2.5	PASS
		VN	20	4.64	0.005621	± 2.5	PASS
		VN	30	-1.78	-0.002156	± 2.5	PASS
		VN	40	-0.72	-0.000872	± 2.5	PASS
		VN	50	3.73	0.004518	± 2.5	PASS
	MCH	VN	-30	3.6	0.004304	± 2.5	PASS
		VN	-20	4.76	0.005690	± 2.5	PASS

		VN	-10	0.95	0.001136	± 2.5	PASS
		VN	0	3.21	0.003837	± 2.5	PASS
		VN	10	-0.76	-0.000909	± 2.5	PASS
		VN	20	2.7	0.003228	± 2.5	PASS
		VN	30	3.58	0.004280	± 2.5	PASS
		VN	40	1.29	0.001542	± 2.5	PASS
		VN	50	-1.68	-0.002008	± 2.5	PASS
	HCH	VN	-30	1.03	0.001215	± 2.5	PASS
		VN	-20	1.47	0.001735	± 2.5	PASS
		VN	-10	2.59	0.003056	± 2.5	PASS
		VN	0	0.25	0.000295	± 2.5	PASS
		VN	10	-0.65	-0.000767	± 2.5	PASS
		VN	20	3.88	0.004578	± 2.5	PASS
		VN	30	-1.16	-0.001369	± 2.5	PASS
		VN	40	3.4	0.004012	± 2.5	PASS
		VN	50	-0.26	-0.000307	± 2.5	PASS
QPSK	LCH	VN	-30	2.88	0.003443	± 2.5	PASS
		VN	-20	-1.13	-0.001351	± 2.5	PASS
		VN	-10	3.86	0.004614	± 2.5	PASS
		VN	0	3.28	0.003921	± 2.5	PASS
		VN	10	3.65	0.004363	± 2.5	PASS
		VN	20	3.17	0.003790	± 2.5	PASS
		VN	30	2.57	0.003072	± 2.5	PASS
		VN	40	1.14	0.001363	± 2.5	PASS
		VN	50	2.16	0.002582	± 2.5	PASS
	MCH	VN	-30	0.7	0.000826	± 2.5	PASS
		VN	-20	3.69	0.004354	± 2.5	PASS
		VN	-10	4.18	0.004932	± 2.5	PASS
		VN	0	1.04	0.001227	± 2.5	PASS
		VN	10	-0.15	-0.000177	± 2.5	PASS
		VN	20	0.87	0.001027	± 2.5	PASS
		VN	30	1.24	0.001463	± 2.5	PASS
		VN	40	-0.42	-0.000496	± 2.5	PASS
		VN	50	2.15	0.002537	± 2.5	PASS
	HCH	VN	-30	-1.14	-0.001345	± 2.5	PASS
		VN	-20	3.87	0.004566	± 2.5	PASS
		VN	-10	2.91	0.003434	± 2.5	PASS
		VN	0	1.41	0.001664	± 2.5	PASS
		VN	10	-0.46	-0.000543	± 2.5	PASS
		VN	20	-0.15	-0.000177	± 2.5	PASS
		VN	30	2.56	0.003021	± 2.5	PASS

		VN	40	1.28	0.001510	± 2.5	PASS
		VN	50	3.86	0.004555	± 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	2.05	0.002480	± 2.5	PASS
		VN	TN	2.26	0.002734	± 2.5	PASS
		VH	TN	-1	-0.001210	± 2.5	PASS
	MCH	VL	TN	2.77	0.003311	± 2.5	PASS
		VN	TN	4.54	0.005427	± 2.5	PASS
		VH	TN	1.18	0.001411	± 2.5	PASS
	HCH	VL	TN	1	0.001181	± 2.5	PASS
		VN	TN	-1.87	-0.002209	± 2.5	PASS
		VH	TN	2.82	0.003331	± 2.5	PASS
16QAM	LCH	VL	TN	1.28	0.001549	± 2.5	PASS
		VN	TN	0.5	0.000605	± 2.5	PASS
		VH	TN	2.86	0.003460	± 2.5	PASS
	MCH	VL	TN	0.15	0.000179	± 2.5	PASS
		VN	TN	0.62	0.000741	± 2.5	PASS
		VH	TN	-1.6	-0.001913	± 2.5	PASS
	HCH	VL	TN	4.15	0.004903	± 2.5	PASS
		VN	TN	1.31	0.001548	± 2.5	PASS
		VH	TN	3.09	0.003650	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.21	-0.001464	± 2.5	PASS
		VN	-20	0.49	0.000593	± 2.5	PASS
		VN	-10	3.58	0.004332	± 2.5	PASS
		VN	0	-0.56	-0.000678	± 2.5	PASS
		VN	10	-0.06	-0.000073	± 2.5	PASS
		VN	20	4.73	0.005723	± 2.5	PASS
		VN	30	-0.94	-0.001137	± 2.5	PASS
		VN	40	0.79	0.000956	± 2.5	PASS
		VN	50	-1.02	-0.001234	± 2.5	PASS
	MCH	VN	-30	2.36	0.002821	± 2.5	PASS
		VN	-20	2.5	0.002989	± 2.5	PASS
		VN	-10	4.71	0.005631	± 2.5	PASS

		VN	0	-1.81	-0.002164	± 2.5	PASS
		VN	10	-0.46	-0.000550	± 2.5	PASS
		VN	20	-0.93	-0.001112	± 2.5	PASS
		VN	30	2.36	0.002821	± 2.5	PASS
		VN	40	1.03	0.001231	± 2.5	PASS
		VN	50	-1.52	-0.001817	± 2.5	PASS
	HCH	VN	-30	3.99	0.004714	± 2.5	PASS
		VN	-20	-0.02	-0.000024	± 2.5	PASS
		VN	-10	3.55	0.004194	± 2.5	PASS
		VN	0	4.59	0.005422	± 2.5	PASS
		VN	10	-0.06	-0.000071	± 2.5	PASS
		VN	20	3.54	0.004182	± 2.5	PASS
		VN	30	-1.1	-0.001299	± 2.5	PASS
		VN	40	0.23	0.000272	± 2.5	PASS
		VN	50	0.79	0.000933	± 2.5	PASS
16QAM	LCH	VN	-30	1	0.001195	± 2.5	PASS
		VN	-20	-0.18	-0.000215	± 2.5	PASS
		VN	-10	2.14	0.002558	± 2.5	PASS
		VN	0	4.73	0.005655	± 2.5	PASS
		VN	10	0.25	0.000299	± 2.5	PASS
		VN	20	2.02	0.002415	± 2.5	PASS
		VN	30	1.86	0.002224	± 2.5	PASS
		VN	40	3.1	0.003706	± 2.5	PASS
		VN	50	-0.13	-0.000155	± 2.5	PASS
	MCH	VN	-30	0.84	0.000992	± 2.5	PASS
		VN	-20	4.53	0.005351	± 2.5	PASS
		VN	-10	0.69	0.000815	± 2.5	PASS
		VN	0	0.78	0.000921	± 2.5	PASS
		VN	10	3.82	0.004513	± 2.5	PASS
		VN	20	3.25	0.003839	± 2.5	PASS
		VN	30	1.97	0.002327	± 2.5	PASS
		VN	40	3.28	0.003875	± 2.5	PASS
		VN	50	0.17	0.000201	± 2.5	PASS
	HCH	VN	-30	2.57	0.003036	± 2.5	PASS
		VN	-20	-0.45	-0.000532	± 2.5	PASS
		VN	-10	-1.69	-0.001996	± 2.5	PASS
		VN	0	-1.68	-0.001985	± 2.5	PASS
		VN	10	-1.9	-0.002245	± 2.5	PASS
		VN	20	0.85	0.001004	± 2.5	PASS
		VN	30	1.21	0.001429	± 2.5	PASS
		VN	40	1.84	0.002174	± 2.5	PASS

		VN	50	0.91	0.001075	± 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	1.21	0.001460	± 2.5	PASS
		VN	TN	2.95	0.003559	± 2.5	PASS
		VH	TN	3.95	0.004765	± 2.5	PASS
	MCH	VL	TN	-0.2	-0.000239	± 2.5	PASS
		VN	TN	-0.88	-0.001052	± 2.5	PASS
		VH	TN	-0.1	-0.000120	± 2.5	PASS
	HCH	VL	TN	-1.69	-0.002002	± 2.5	PASS
		VN	TN	2.1	0.002488	± 2.5	PASS
		VH	TN	0.47	0.000557	± 2.5	PASS
16QAM	LCH	VL	TN	-1.62	-0.001954	± 2.5	PASS
		VN	TN	1.42	0.001713	± 2.5	PASS
		VH	TN	-0.89	-0.001074	± 2.5	PASS
	MCH	VL	TN	1.05	0.001255	± 2.5	PASS
		VN	TN	2.6	0.003108	± 2.5	PASS
		VH	TN	4.51	0.005392	± 2.5	PASS
	HCH	VL	TN	0.29	0.000344	± 2.5	PASS
		VN	TN	2.1	0.002488	± 2.5	PASS
		VH	TN	2.25	0.002666	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	3.21	0.003872	± 2.5	PASS
		VN	-20	-1.45	-0.001749	± 2.5	PASS
		VN	-10	1.52	0.001834	± 2.5	PASS
		VN	0	-0.12	-0.000145	± 2.5	PASS
		VN	10	-0.58	-0.000700	± 2.5	PASS
		VN	20	4.48	0.005404	± 2.5	PASS
		VN	30	2.09	0.002521	± 2.5	PASS
		VN	40	0.18	0.000217	± 2.5	PASS
		VN	50	4.72	0.005694	± 2.5	PASS
	MCH	VN	-30	2.16	0.002582	± 2.5	PASS
		VN	-20	0.61	0.000729	± 2.5	PASS
		VN	-10	3.37	0.004029	± 2.5	PASS
		VN	0	4.92	0.005882	± 2.5	PASS

		VN	10	1.57	0.001877	± 2.5	PASS
		VN	20	4.34	0.005188	± 2.5	PASS
		VN	30	-1.97	-0.002355	± 2.5	PASS
		VN	40	-0.92	-0.001100	± 2.5	PASS
		VN	50	2.2	0.002630	± 2.5	PASS
	HCH	VN	-30	-1.57	-0.001860	± 2.5	PASS
		VN	-20	-0.74	-0.000877	± 2.5	PASS
		VN	-10	2.78	0.003294	± 2.5	PASS
		VN	0	4.61	0.005462	± 2.5	PASS
		VN	10	-1.26	-0.001493	± 2.5	PASS
		VN	20	0.22	0.000261	± 2.5	PASS
		VN	30	-0.35	-0.000415	± 2.5	PASS
		VN	40	1.62	0.001919	± 2.5	PASS
		VN	50	3.7	0.004384	± 2.5	PASS
QPSK	LCH	VN	-30	0.8	0.000956	± 2.5	PASS
		VN	-20	3.7	0.004423	± 2.5	PASS
		VN	-10	0.35	0.000418	± 2.5	PASS
		VN	0	3.23	0.003861	± 2.5	PASS
		VN	10	3.19	0.003814	± 2.5	PASS
		VN	20	-1.64	-0.001961	± 2.5	PASS
		VN	30	2.07	0.002475	± 2.5	PASS
		VN	40	-1.96	-0.002343	± 2.5	PASS
		VN	50	0.71	0.000849	± 2.5	PASS
	MCH	VN	-30	-0.89	-0.001055	± 2.5	PASS
		VN	-20	1.23	0.001457	± 2.5	PASS
		VN	-10	-0.91	-0.001078	± 2.5	PASS
		VN	0	-1.18	-0.001398	± 2.5	PASS
		VN	10	-1.81	-0.002145	± 2.5	PASS
		VN	20	2.52	0.002986	± 2.5	PASS
		VN	30	-0.56	-0.000664	± 2.5	PASS
		VN	40	1.11	0.001315	± 2.5	PASS
		VN	50	0.72	0.000853	± 2.5	PASS
	HCH	VN	-30	3.18	0.003768	± 2.5	PASS
		VN	-20	1.38	0.001635	± 2.5	PASS
		VN	-10	-1.58	-0.001872	± 2.5	PASS
		VN	0	1	0.001185	± 2.5	PASS
		VN	10	3.22	0.003815	± 2.5	PASS
		VN	20	3.42	0.004052	± 2.5	PASS
		VN	30	-0.64	-0.000758	± 2.5	PASS
		VN	40	-1.9	-0.002251	± 2.5	PASS
		VN	50	4.67	0.005533	± 2.5	PASS