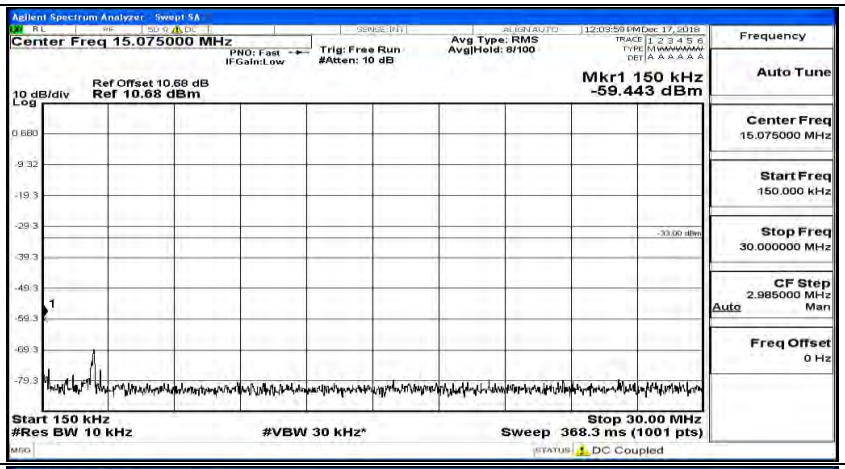
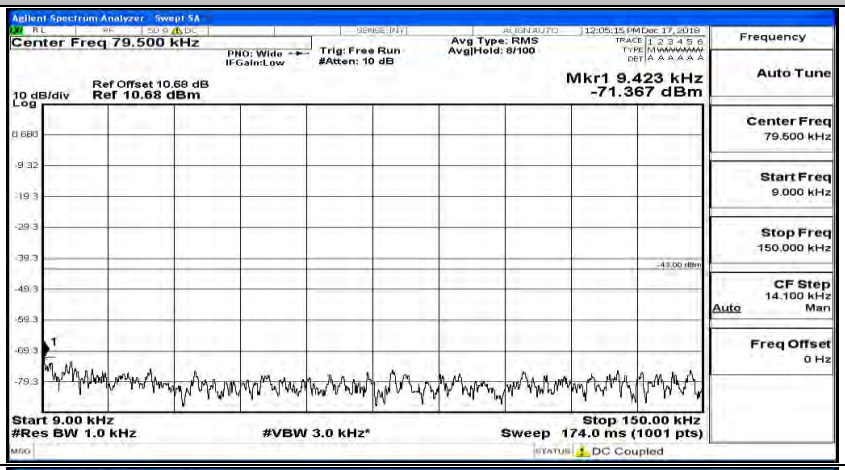
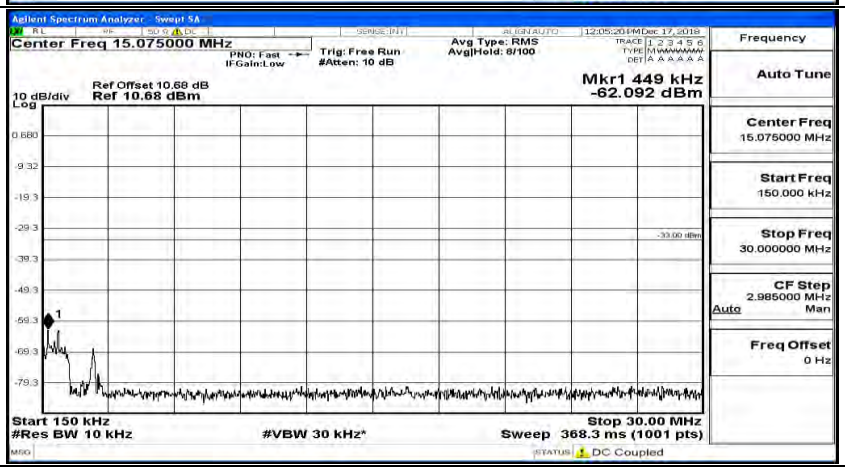
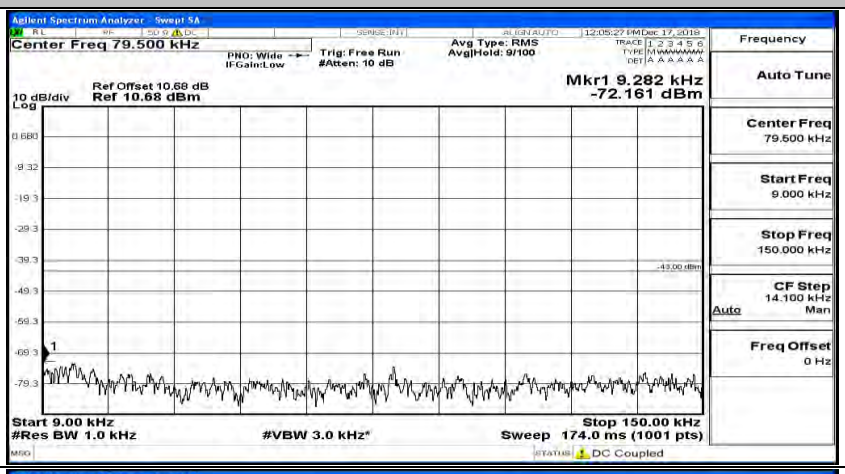


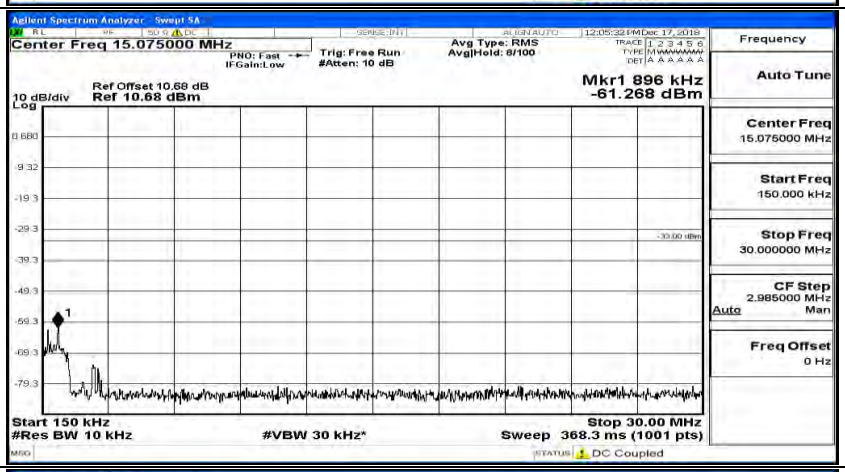
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#0



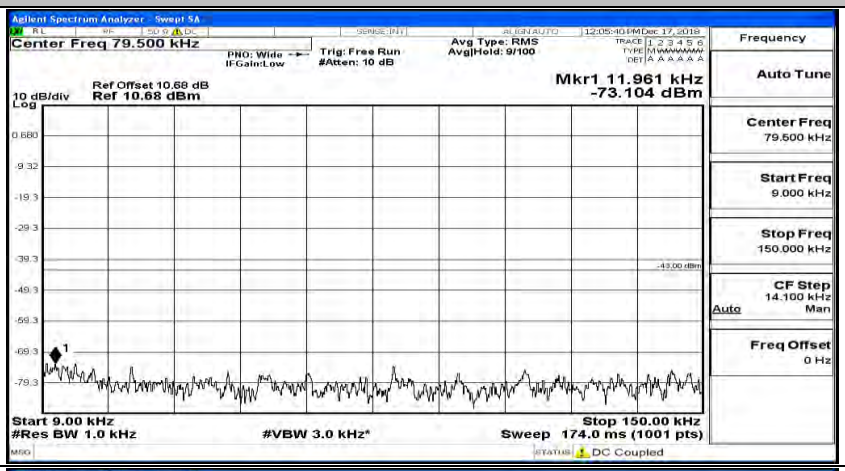


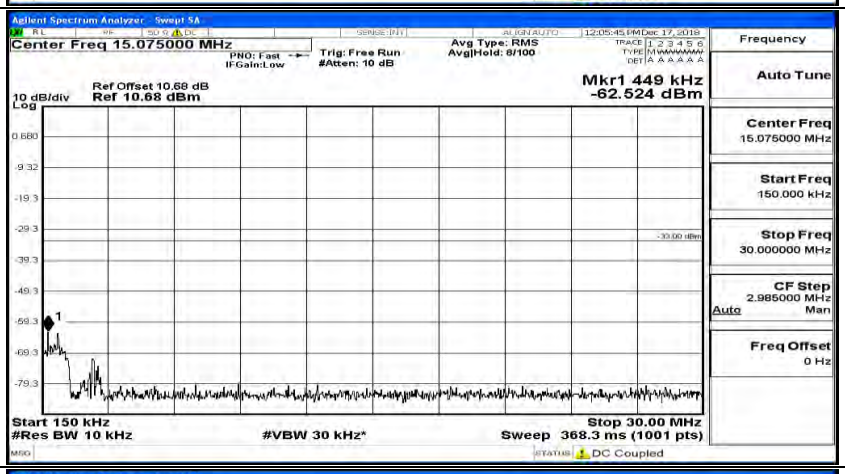
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#4



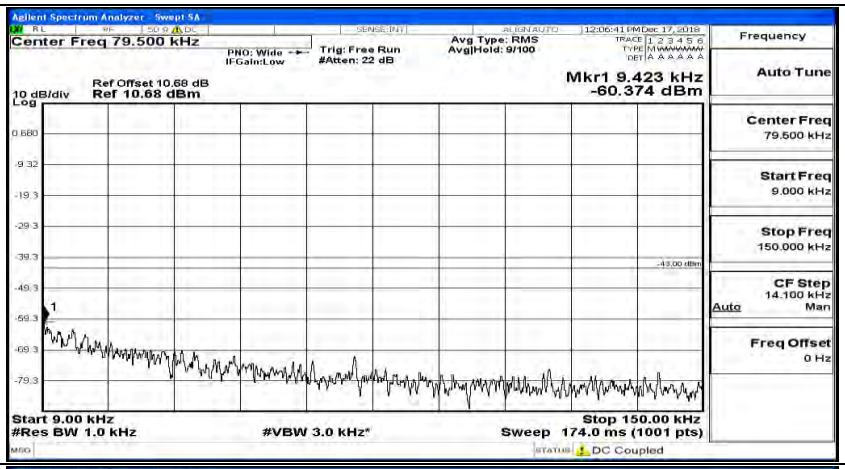


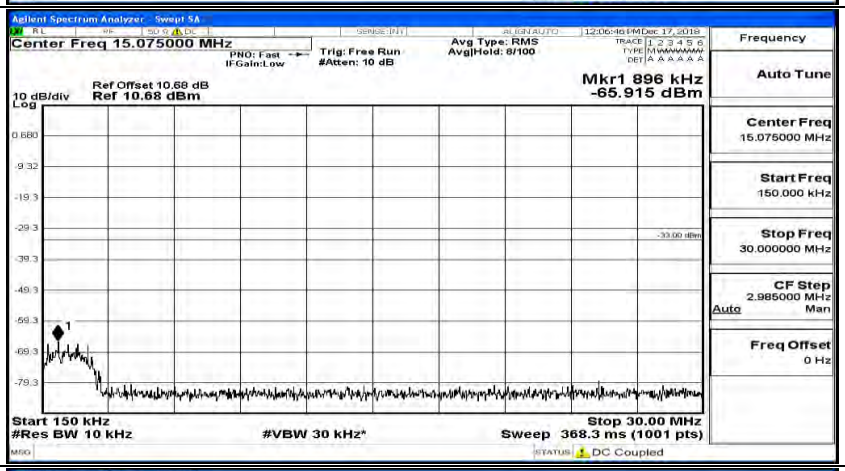
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#7





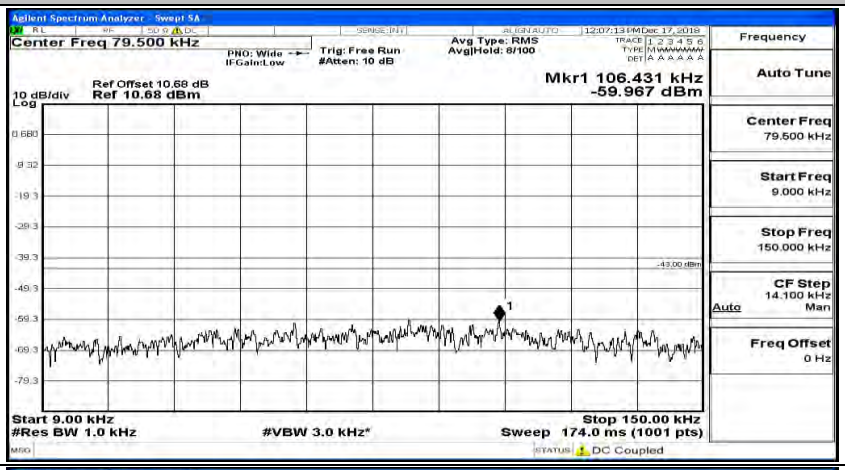
(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0

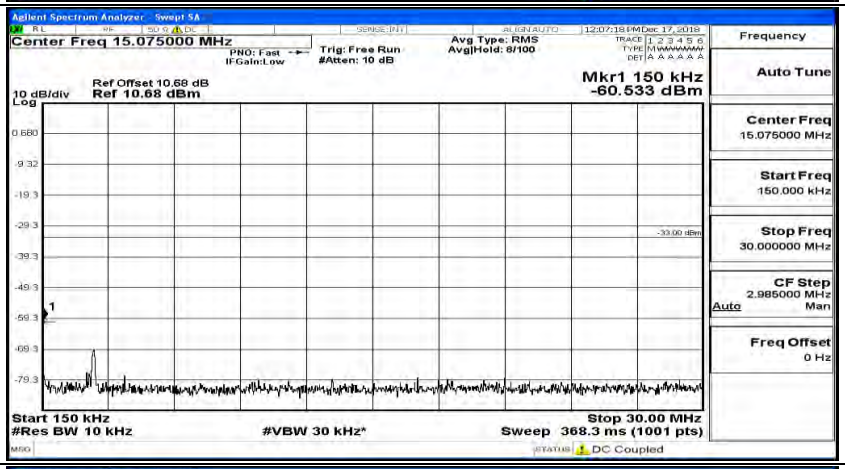

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: RMS
Avg|Hold: 9/100
12:06:41 PM Dec 17, 2018
Ref Offset 10.68 dB
10 dB/div Ref 10.68 dBm
Log
Mkr1 9.423 kHz
-60.374 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.0 ms (1001 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: 8/100
12:06:46 PM Dec 17, 2018
Ref Offset 10.68 dB
10 dB/div Ref 10.68 dBm
Log
Mkr1 896 kHz
-65.915 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.3 ms (1001 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

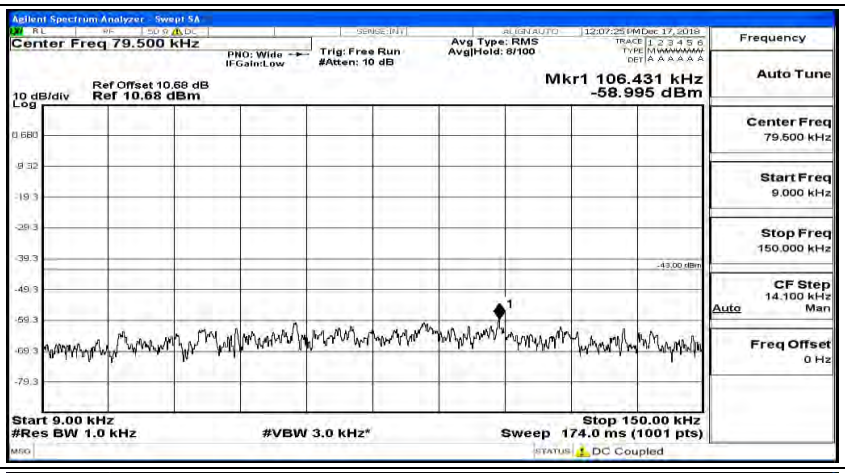

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 3/100
12:06:50 PM Dec 17, 2018
Ref Offset 10.08 dB
10 dB/div Ref 30.00 dBm
Log
Mkr2 25.792 GHz
-28.748 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.93 ms (1001 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

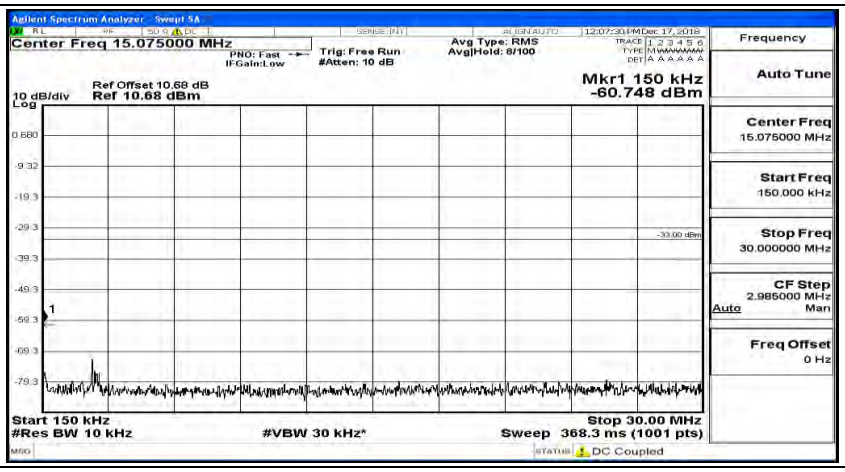
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0



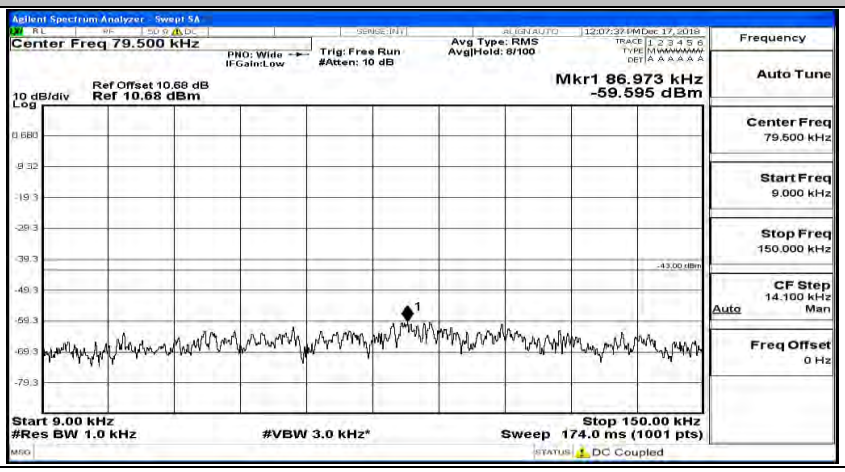


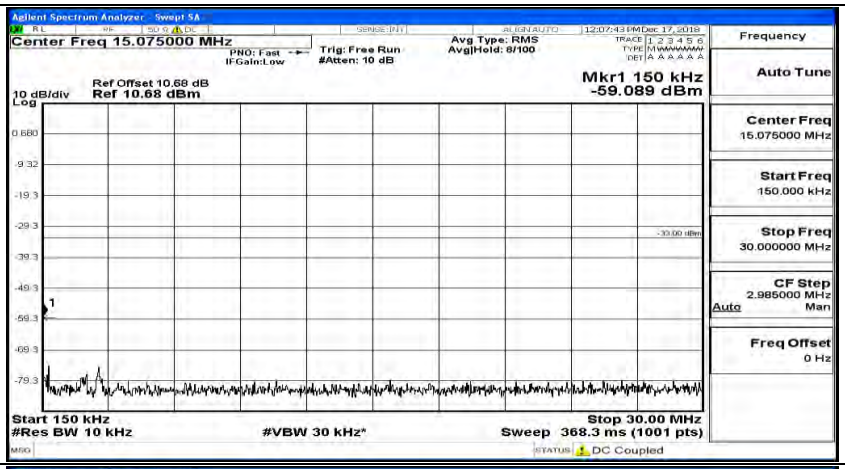
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7



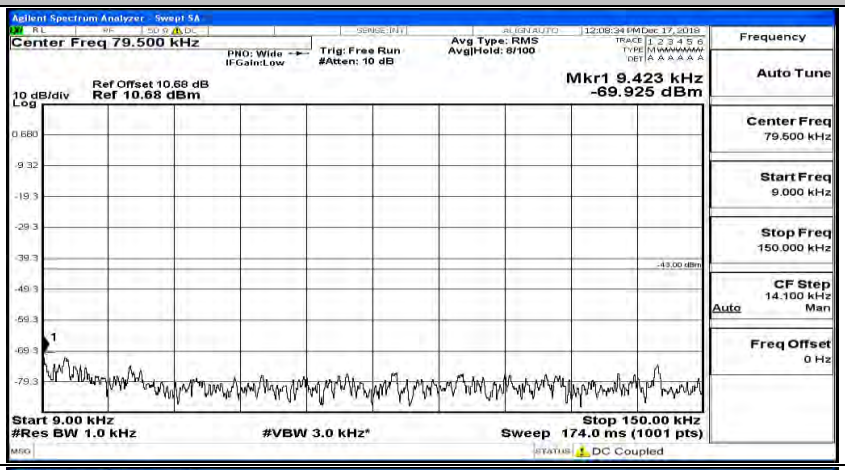


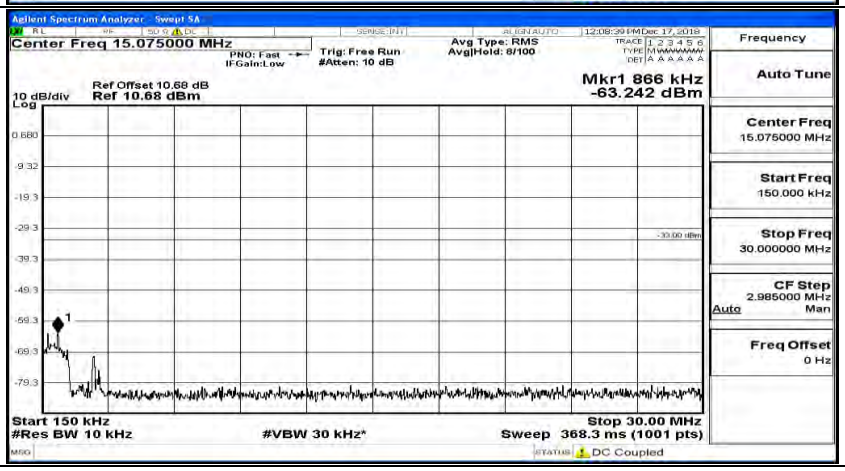
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14



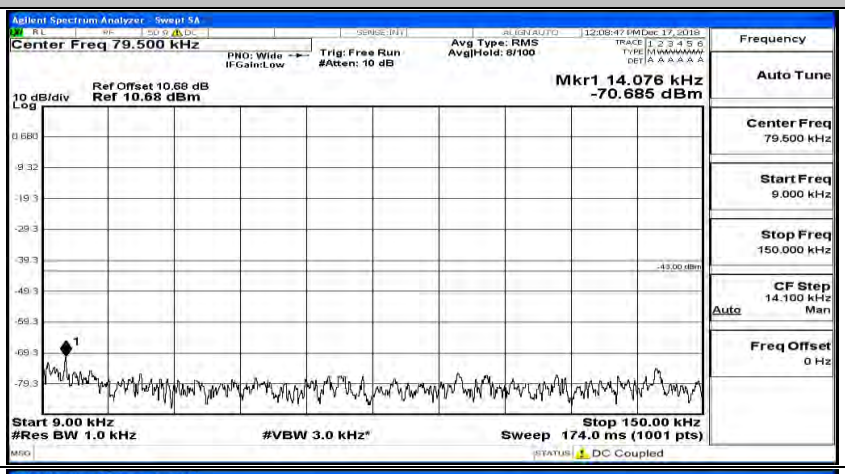


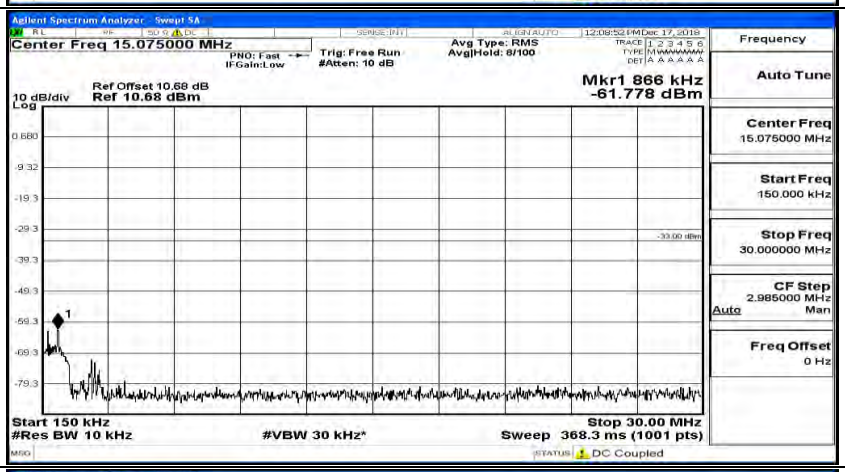
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#0



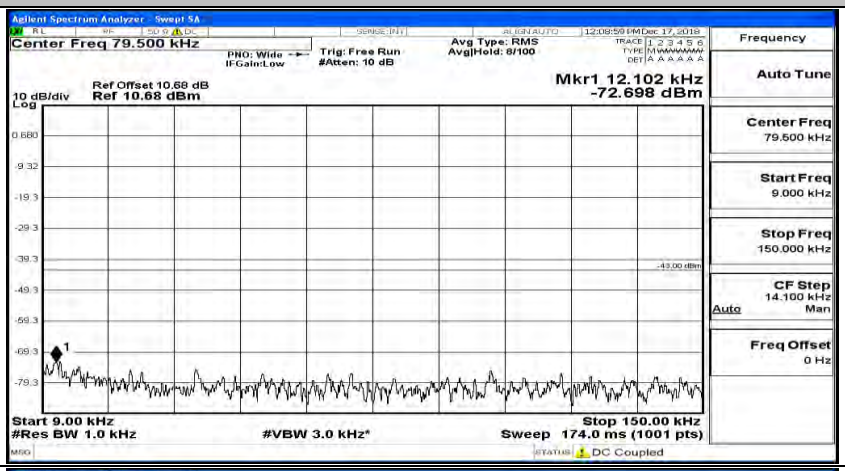


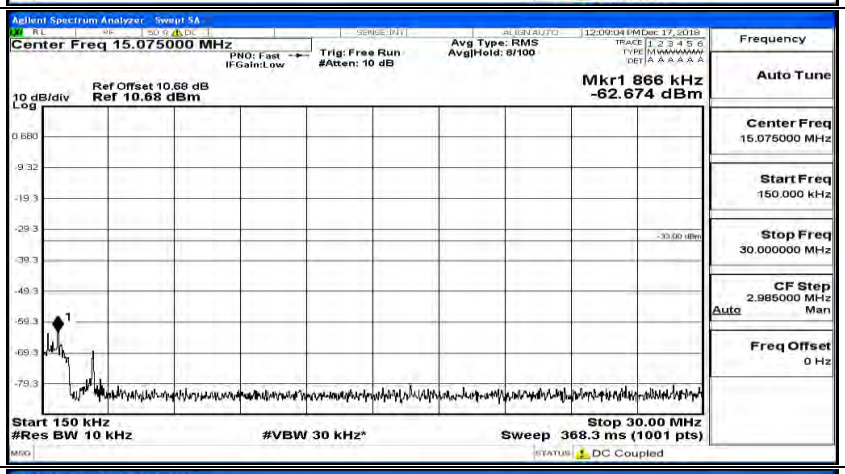
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#4



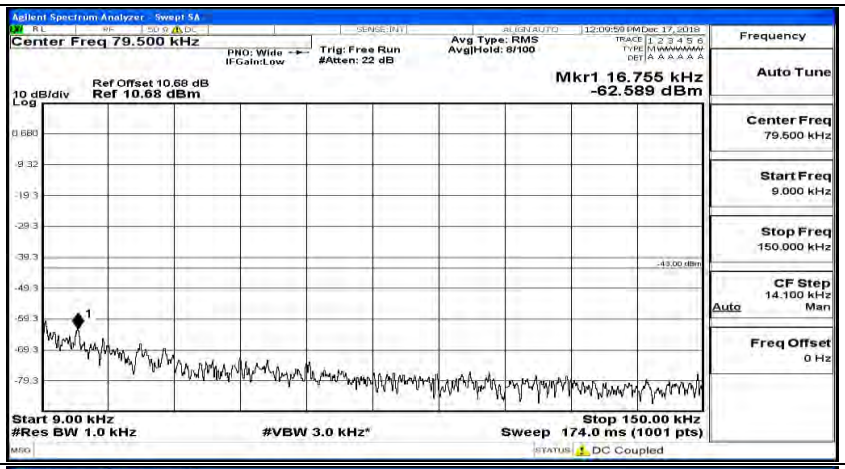


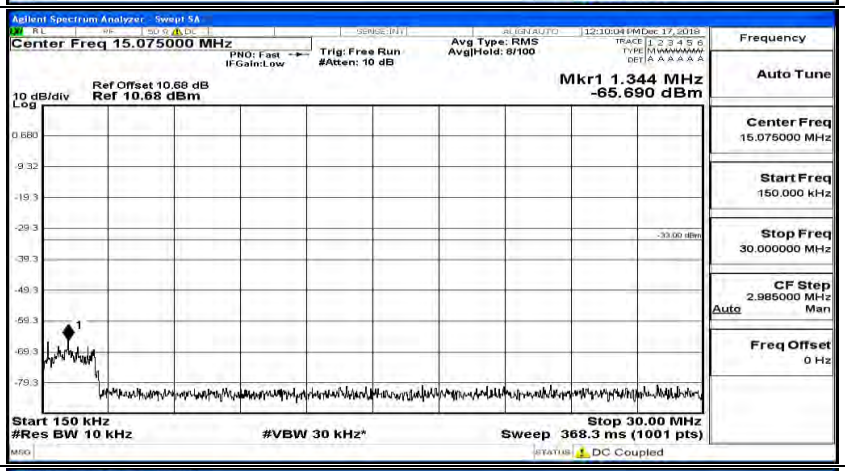
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#7





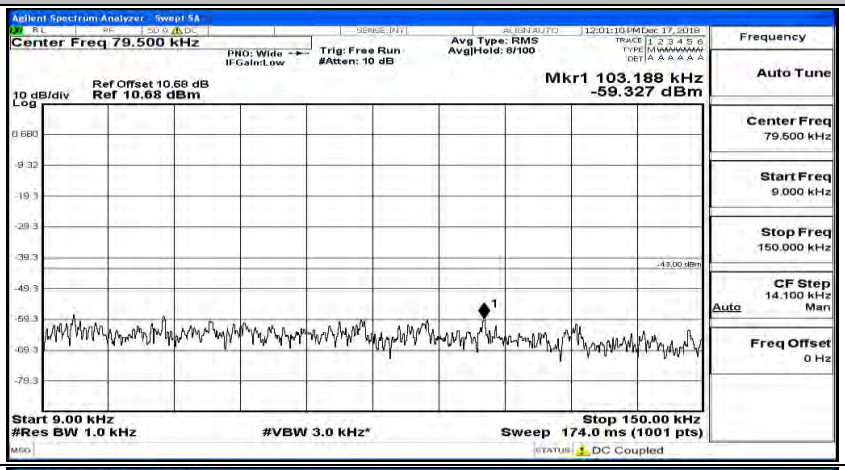
(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0

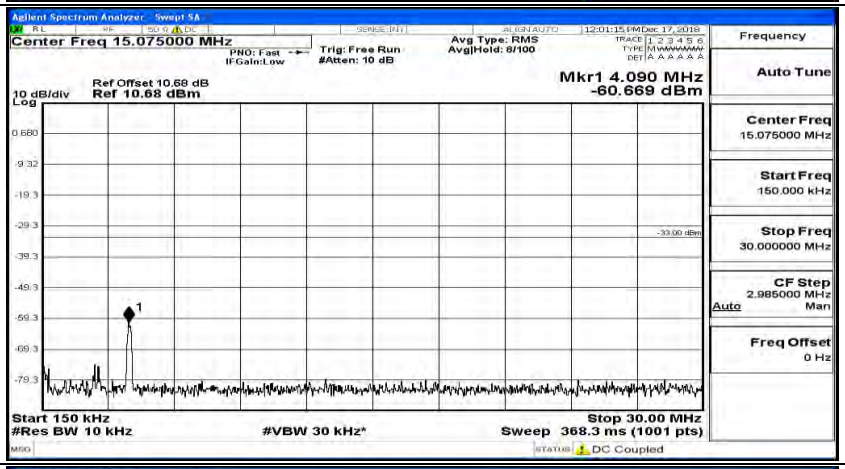

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: RMS
Avg|Hold: 8/100
12:09:59 PM Dec 17, 2018
Ref Offset 10.68 dB
10 dB/div Ref 10.68 dBm
Log
Mkr1 16.755 kHz
-62.589 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.0 ms (1001 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: 8/100
12:10:04 PM Dec 17, 2018
Ref Offset 10.68 dB
10 dB/div Ref 10.68 dBm
Log
Mkr1 1.344 MHz
-65.690 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.3 ms (1001 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

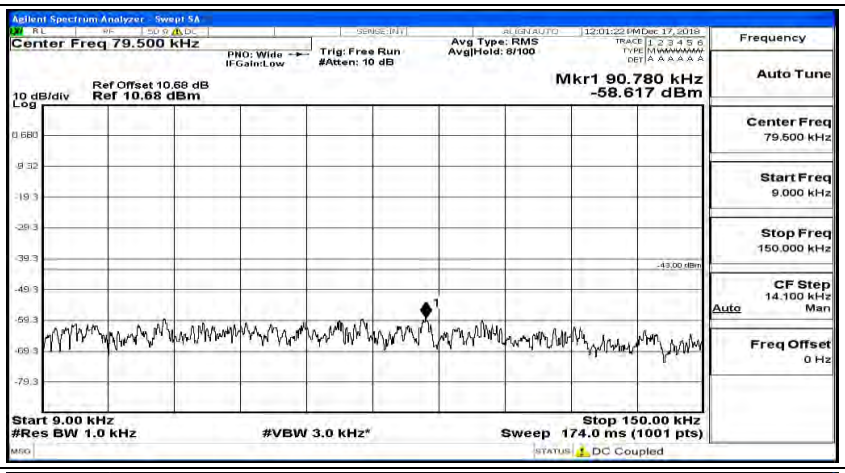

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 4/100
12:10:07 PM Dec 17, 2018
Ref Offset 10.08 dB
10 dB/div Ref 30.00 dBm
Log
Mkr2 25.714 GHz
-28.475 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.93 ms (1001 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

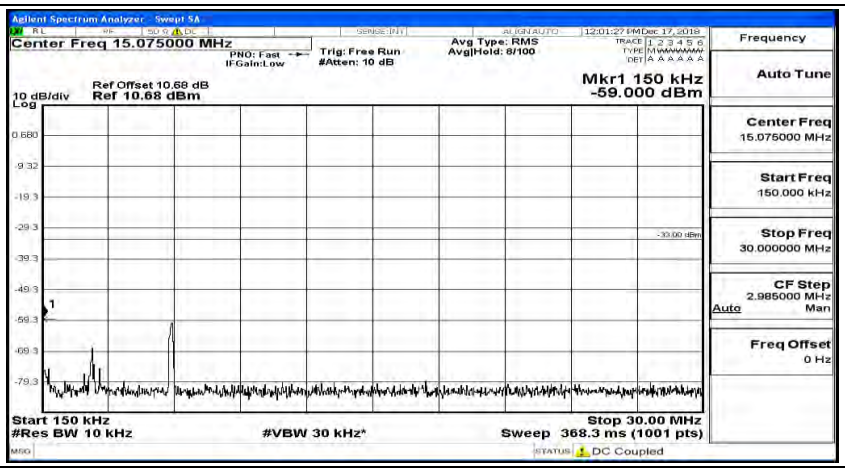
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0



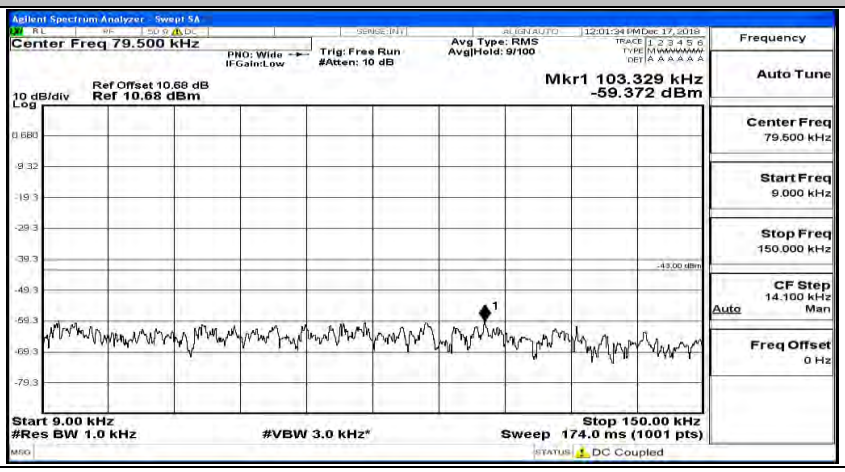


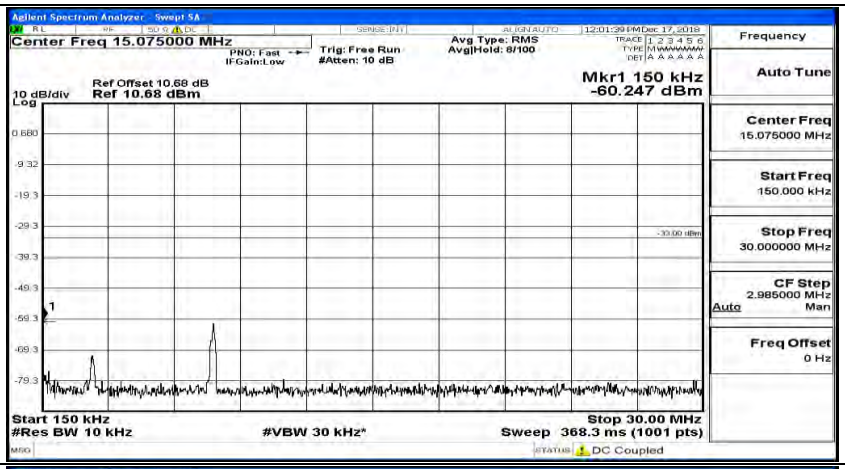
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7



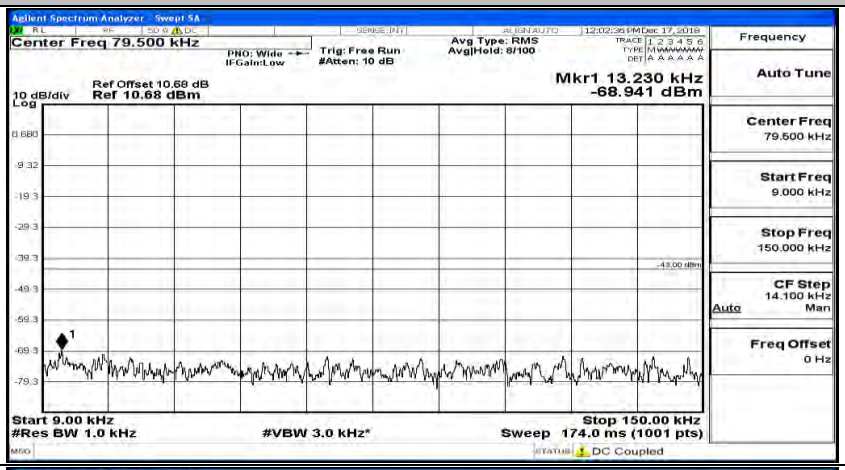


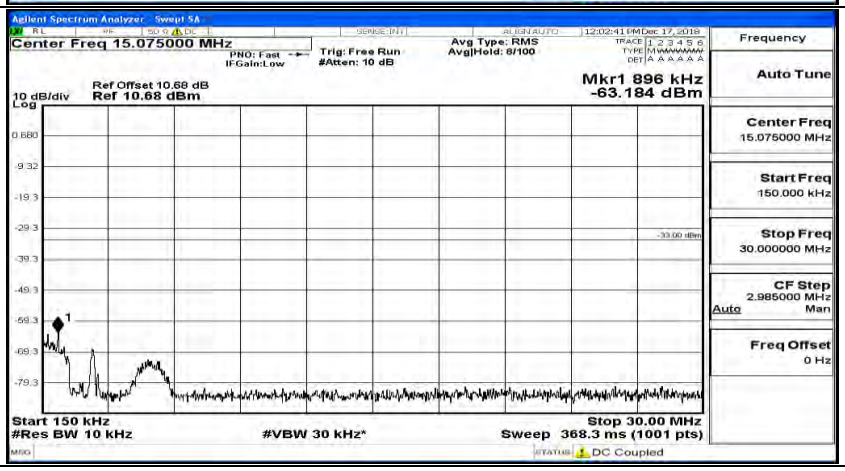
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14



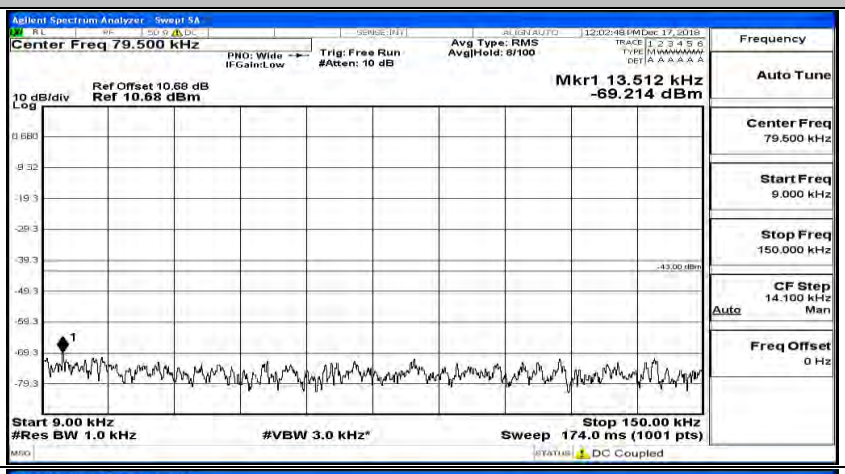


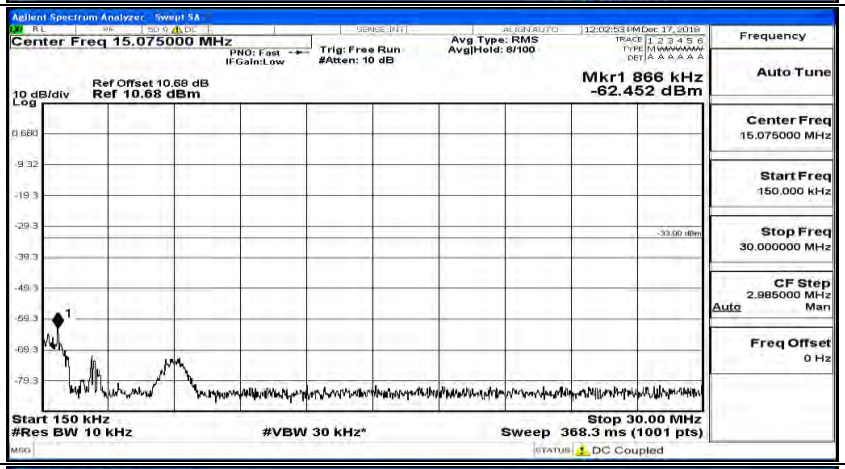
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0



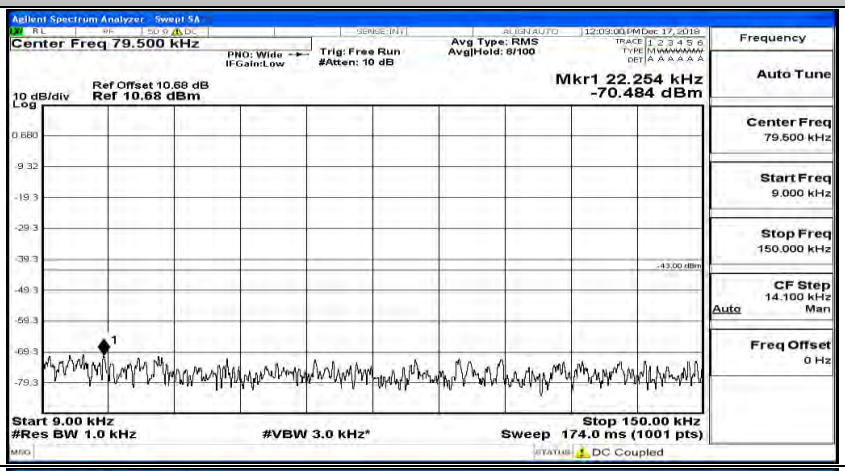


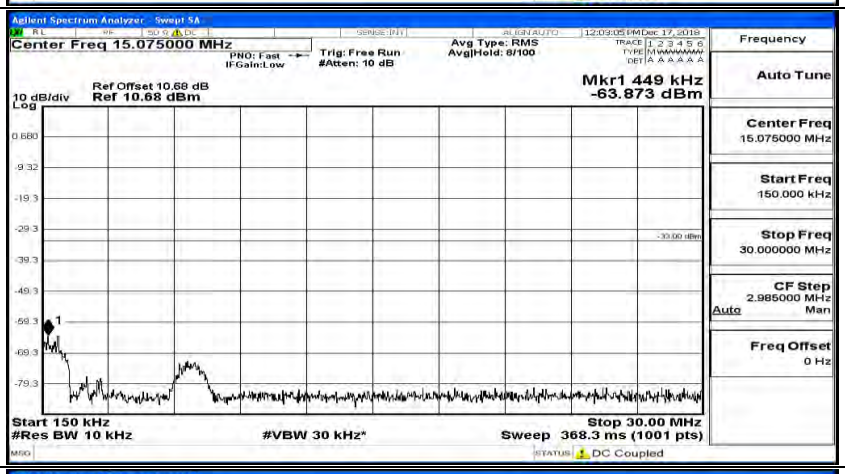
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#4



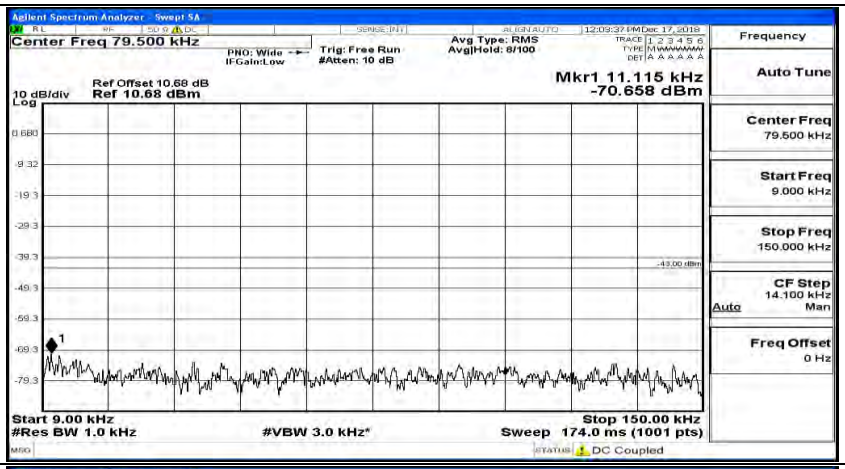


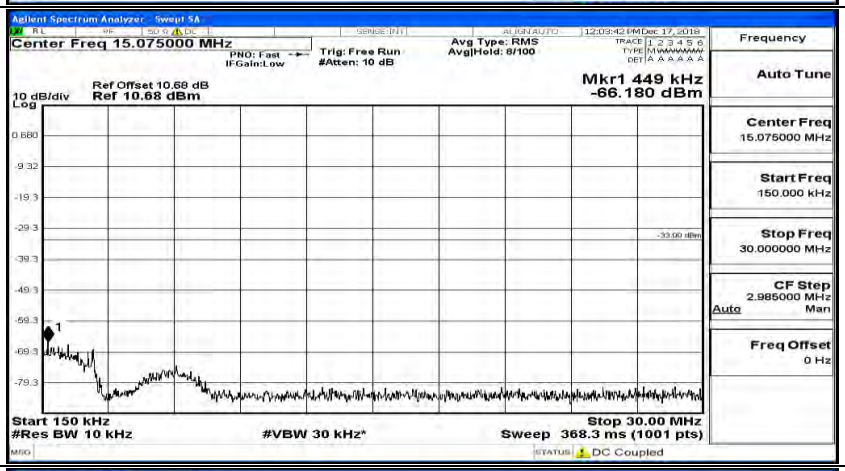
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7

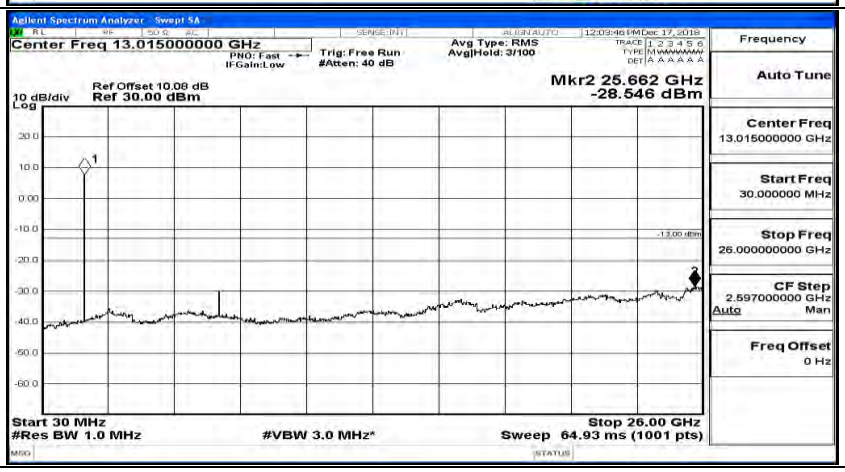




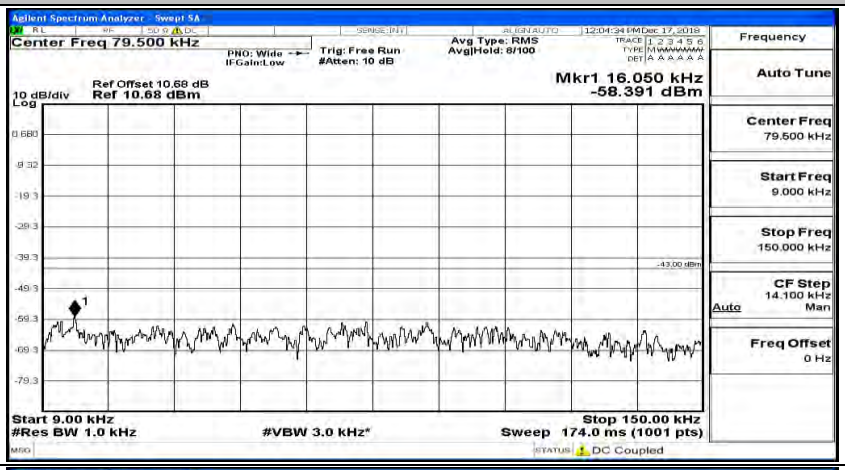
(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0

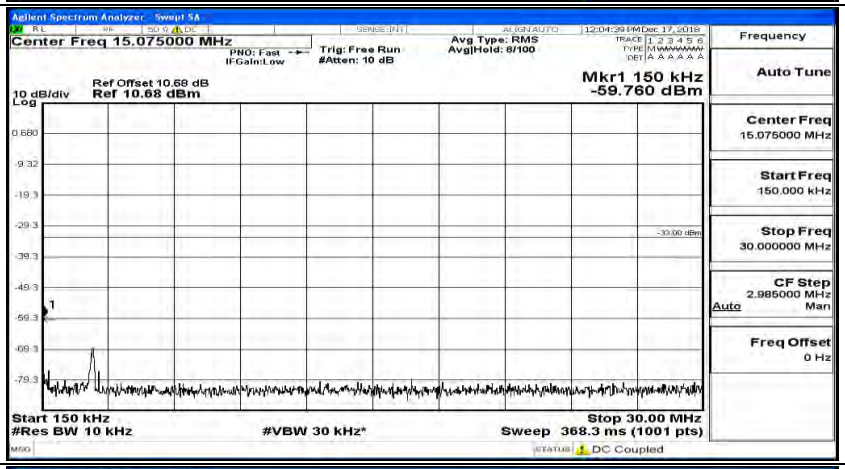

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 8/100
12:09:37 PM Dec 17, 2018
Ref Offset 10.68 dB
10 dB/div Ref 10.68 dBm
Log
Mkr1 11.115 kHz
-70.658 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.0 ms (1001 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: 8/100
12:09:42 PM Dec 17, 2018
Ref Offset 10.68 dB
10 dB/div Ref 10.68 dBm
Log
Mkr1 449 kHz
-66.180 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.3 ms (1001 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

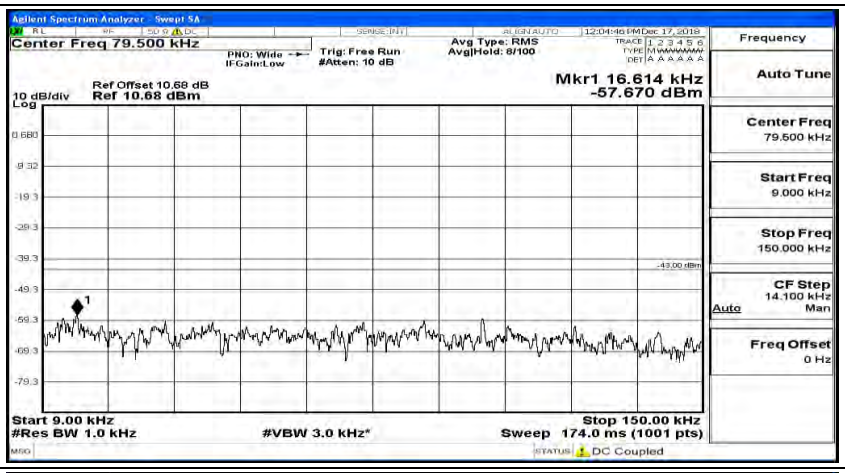

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 3/100
12:09:46 PM Dec 17, 2018
Ref Offset 10.08 dB
10 dB/div Ref 30.00 dBm
Log
Mkr2 25.662 GHz
-28.546 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.93 ms (1001 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

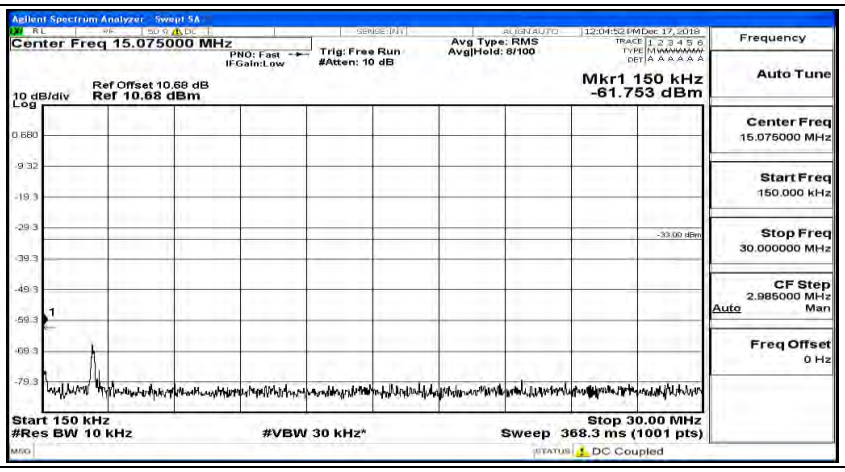
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0



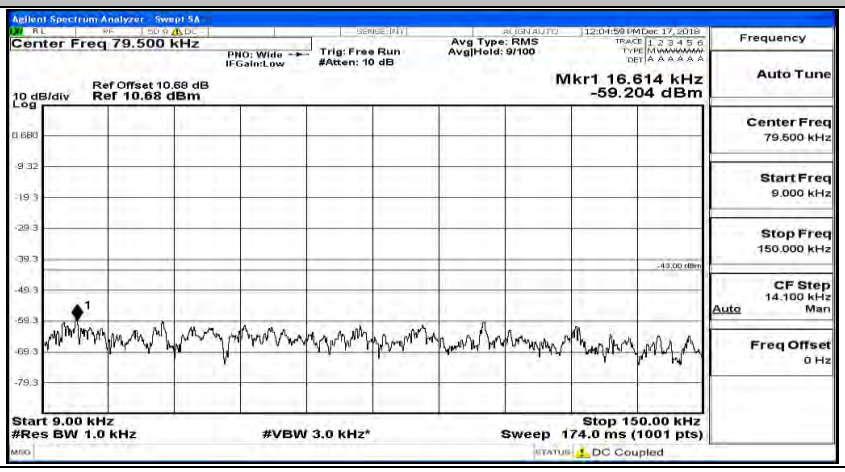


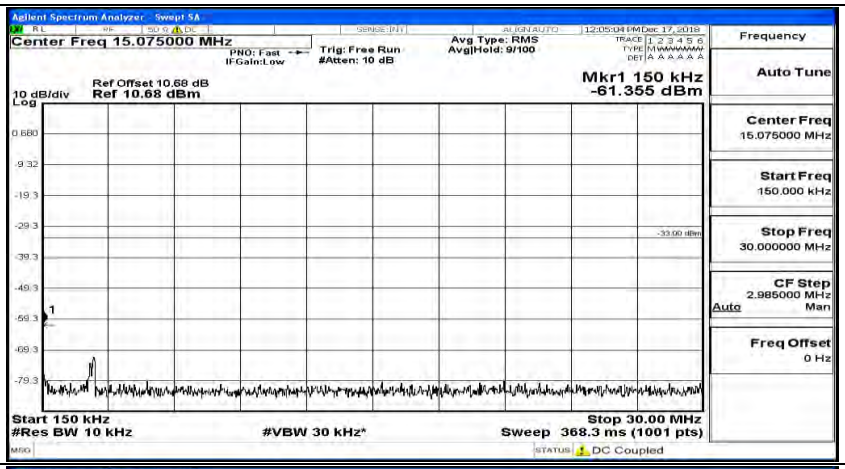
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7



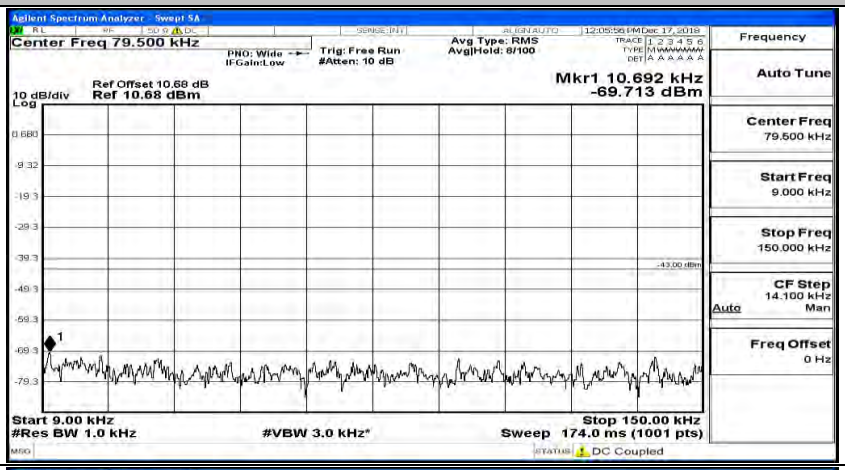


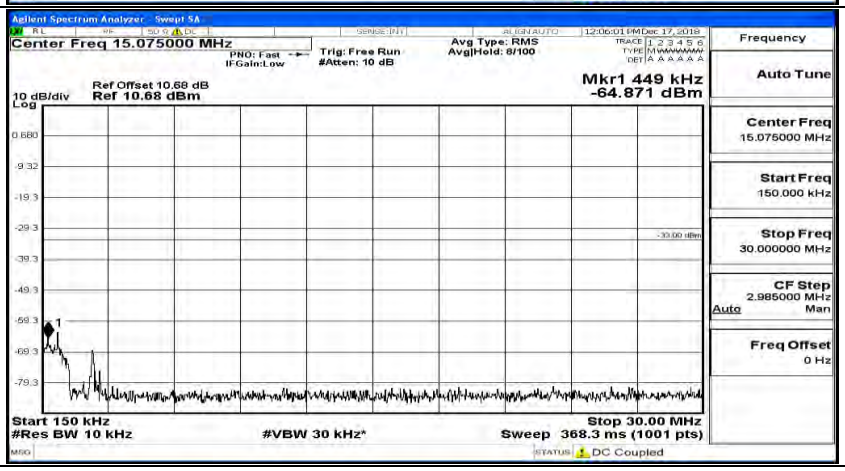
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14



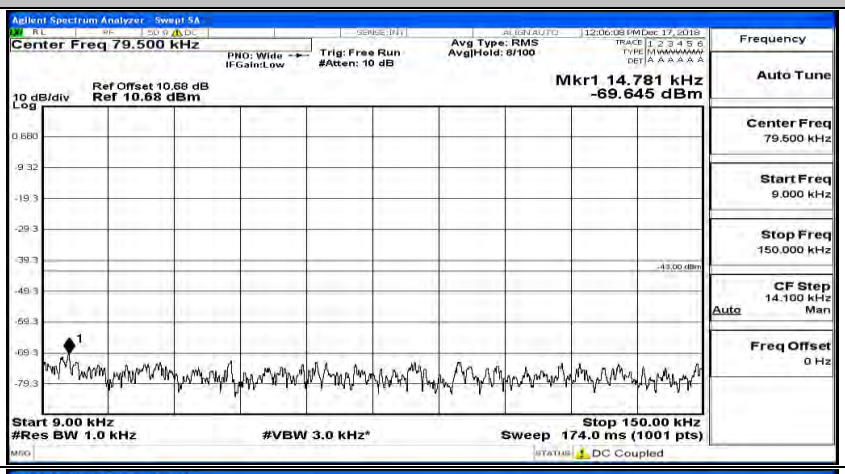


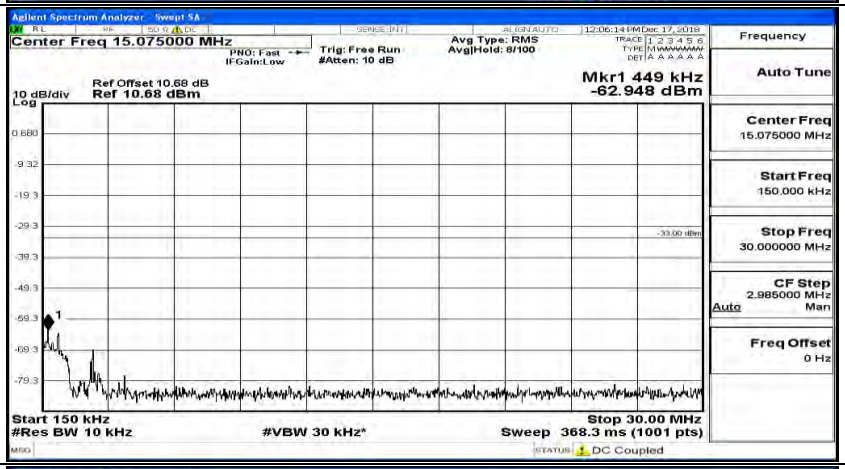
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#0



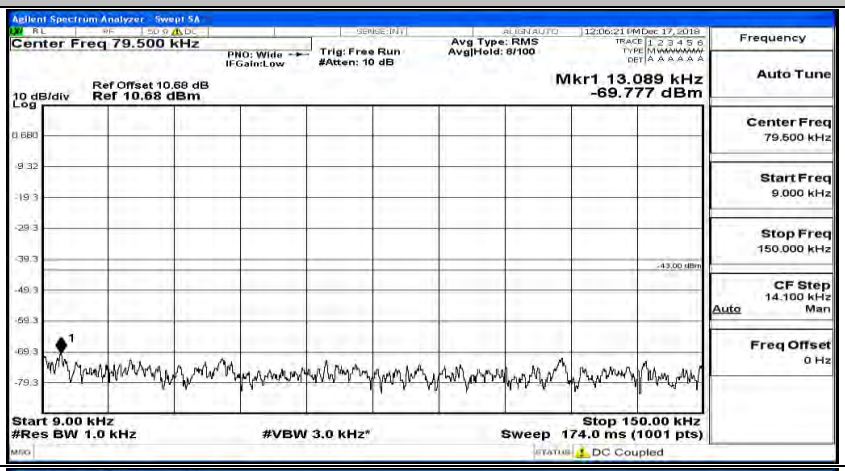


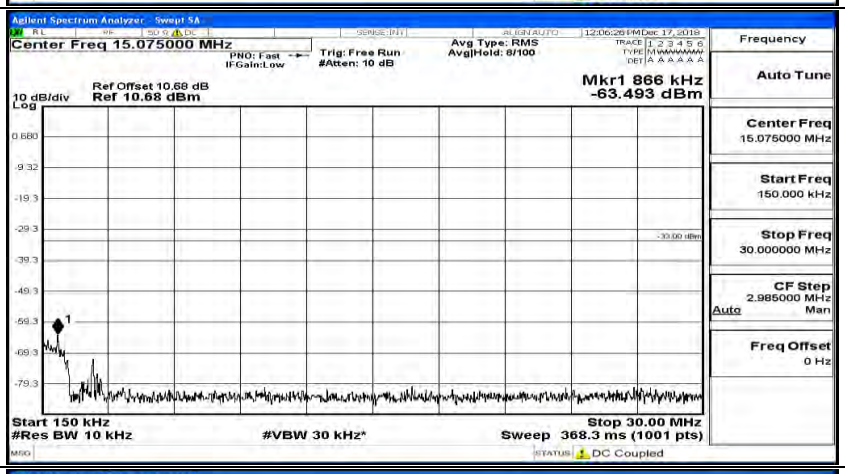
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#4



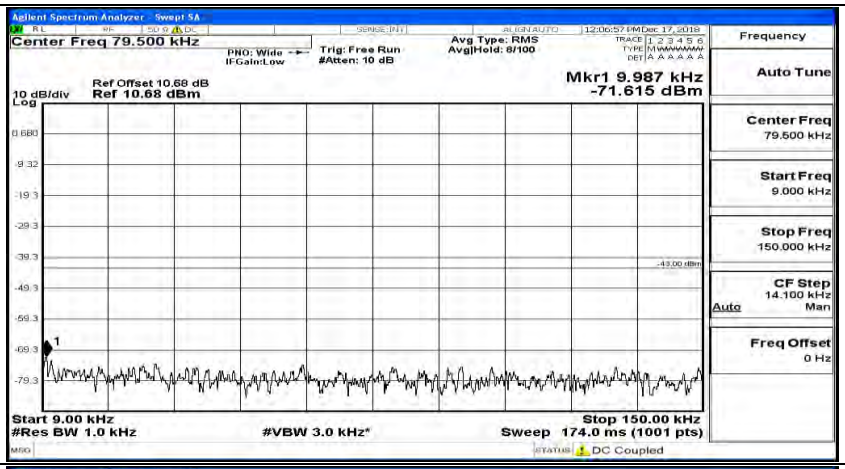


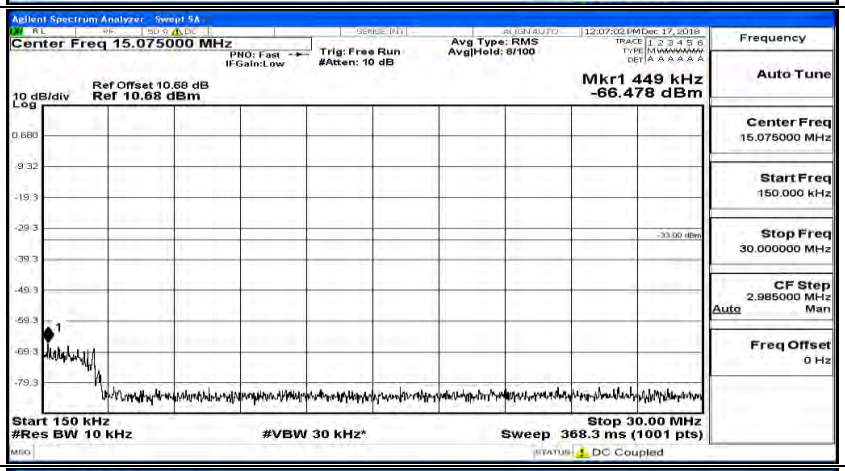
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#7





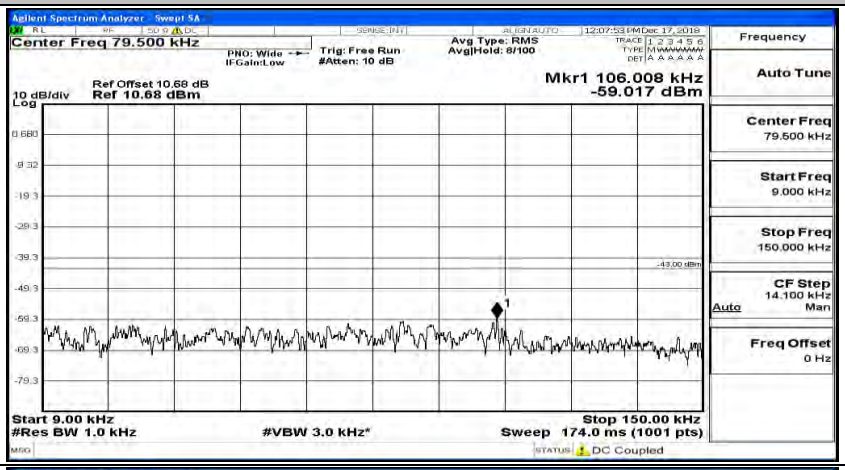
(Channel Bandwidth: 3 MHz)_MCH_16QAM_15RB#0

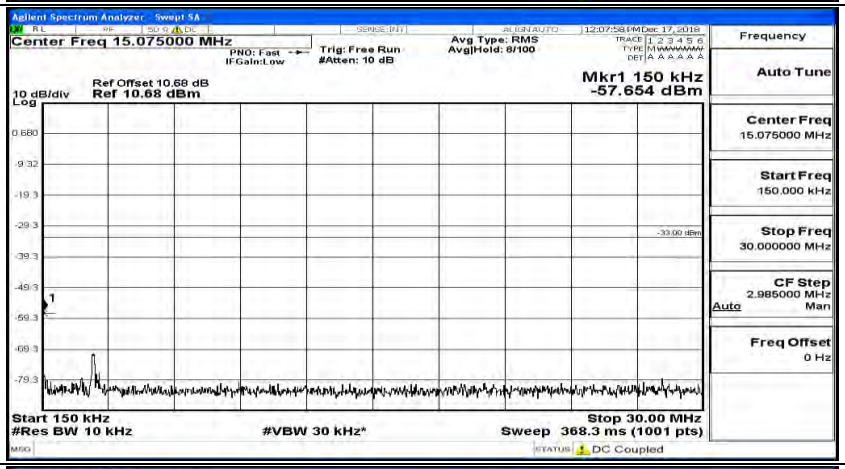

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 8/100
12:06:57 PM Dec 17, 2018
Ref Offset 10.68 dB
10 dB/div Ref 10.68 dBm
Log
Mkr1 9.987 kHz
-71.615 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.0 ms (1001 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: 8/100
12:07:02 PM Dec 17, 2018
Ref Offset 10.68 dB
10 dB/div Ref 10.68 dBm
Log
Mkr1 449 kHz
-66.478 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.3 ms (1001 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

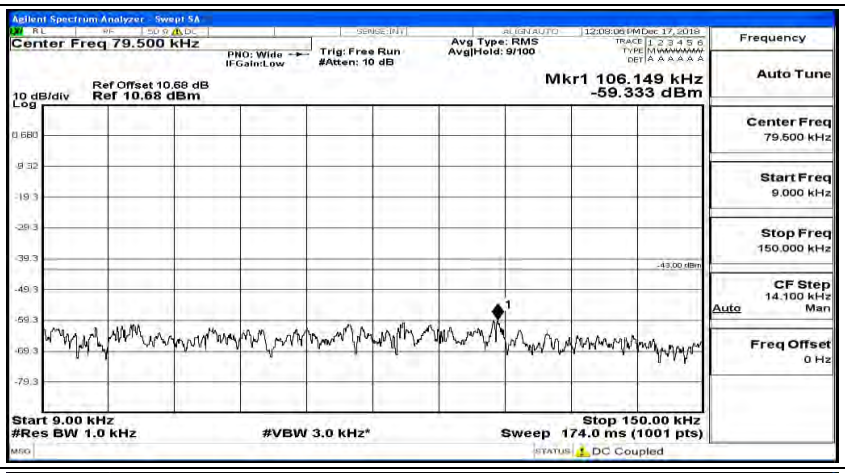

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 3/100
12:07:05 PM Dec 17, 2018
Ref Offset 10.08 dB
10 dB/div Ref 30.00 dBm
Log
Mkr2 25.688 GHz
-28.244 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.93 ms (1001 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

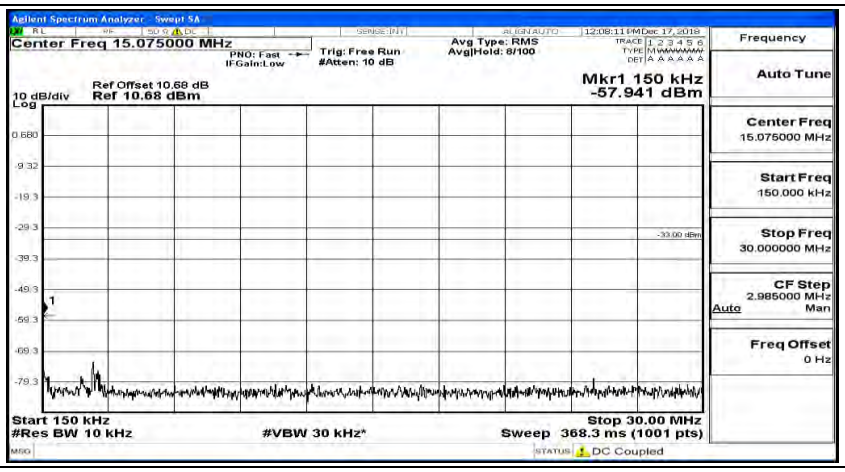
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0



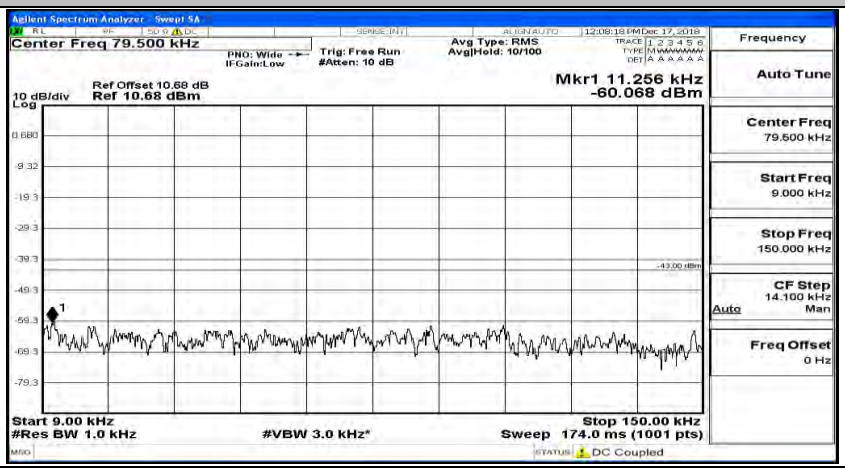


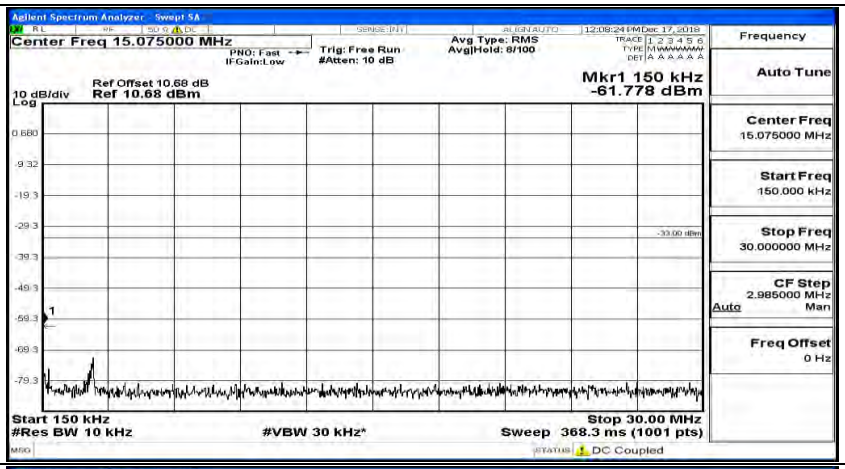
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7



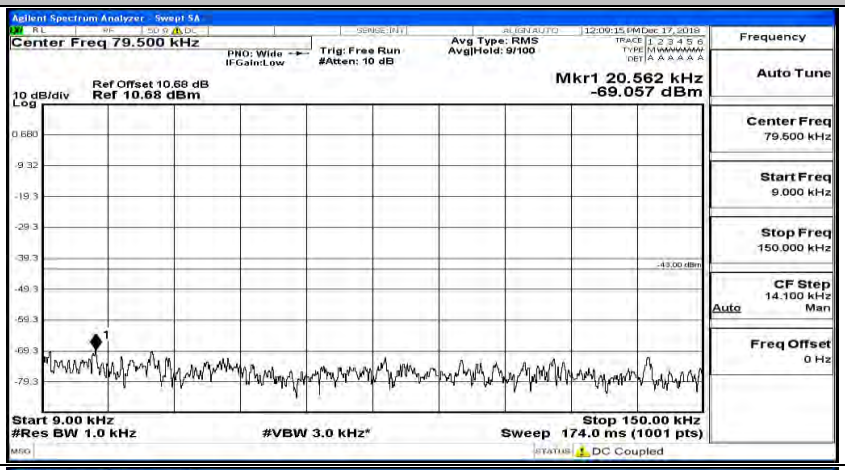


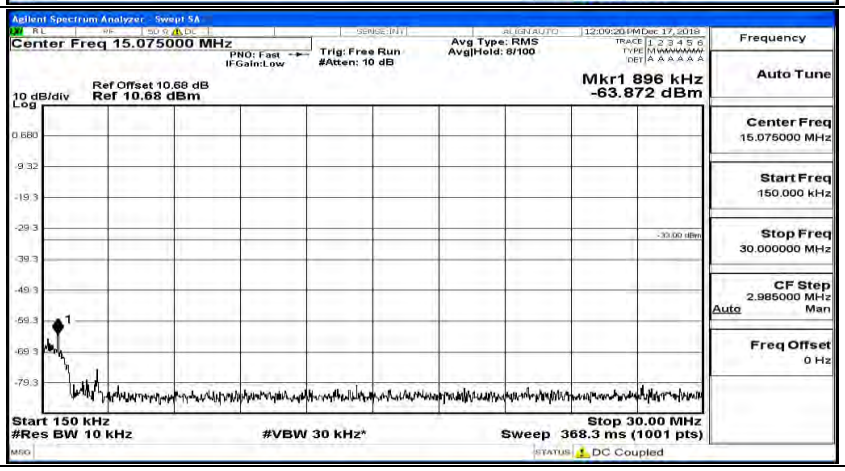
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#14



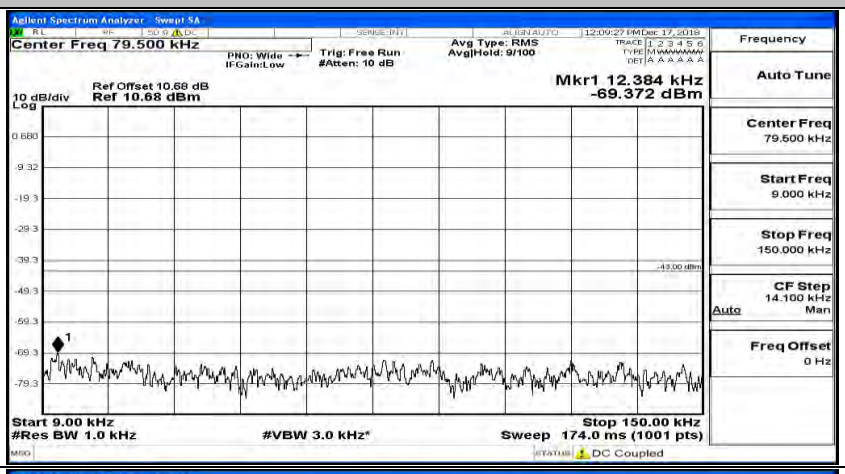


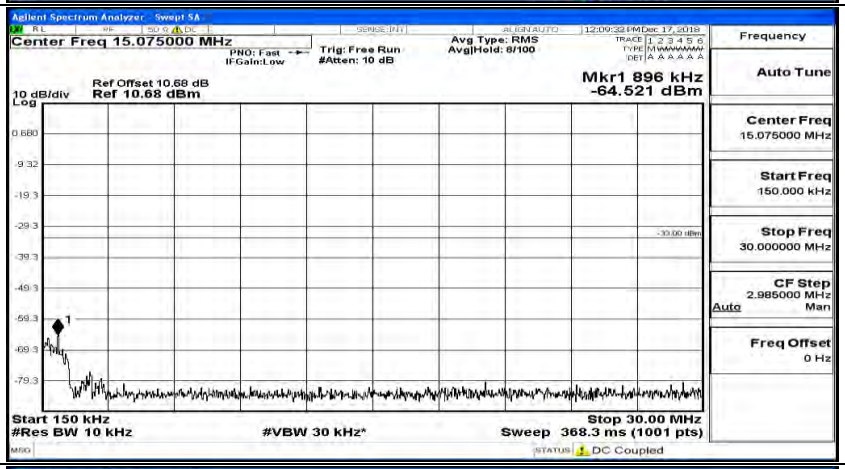
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#0



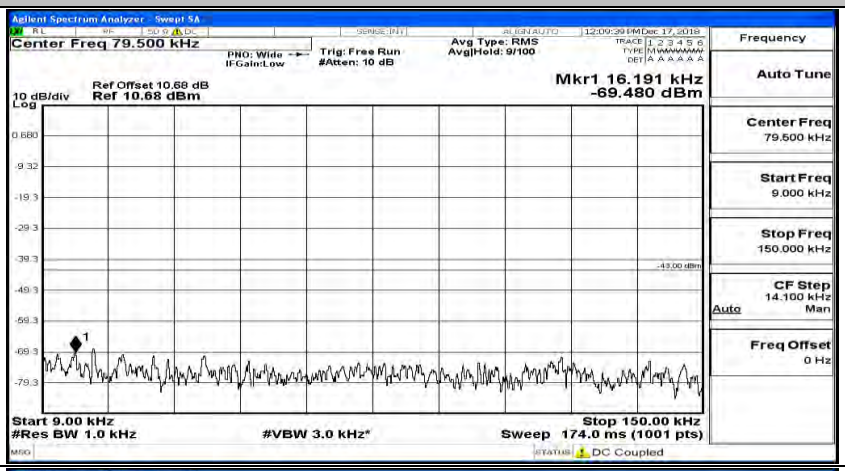


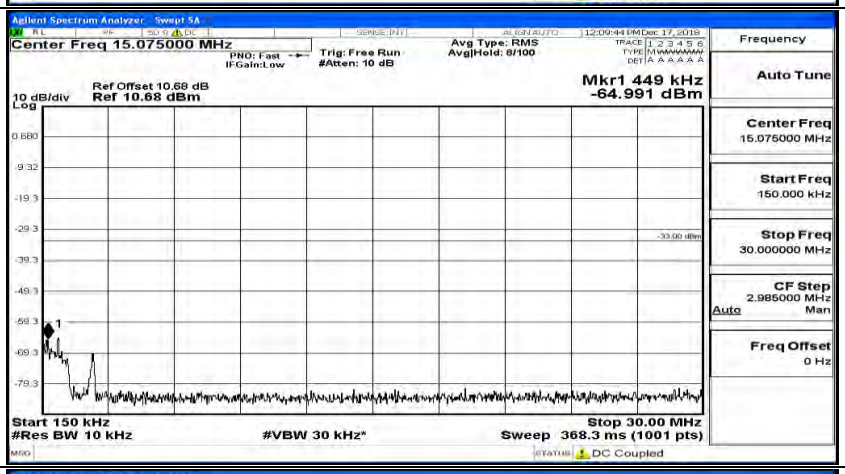
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#4



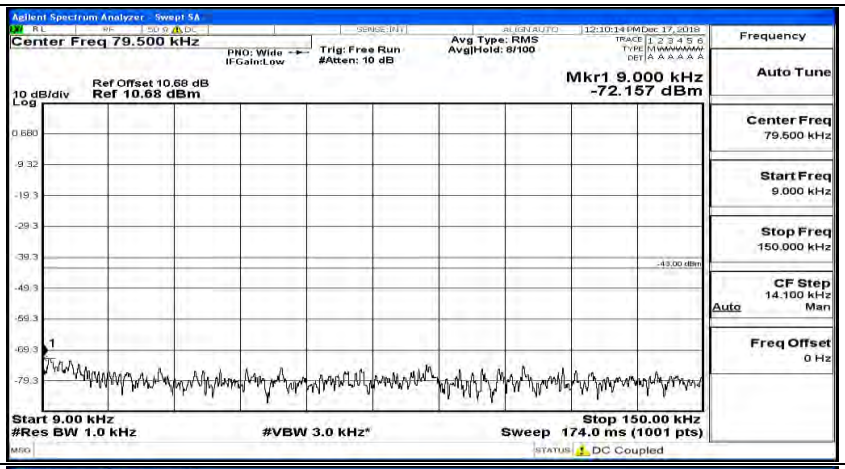


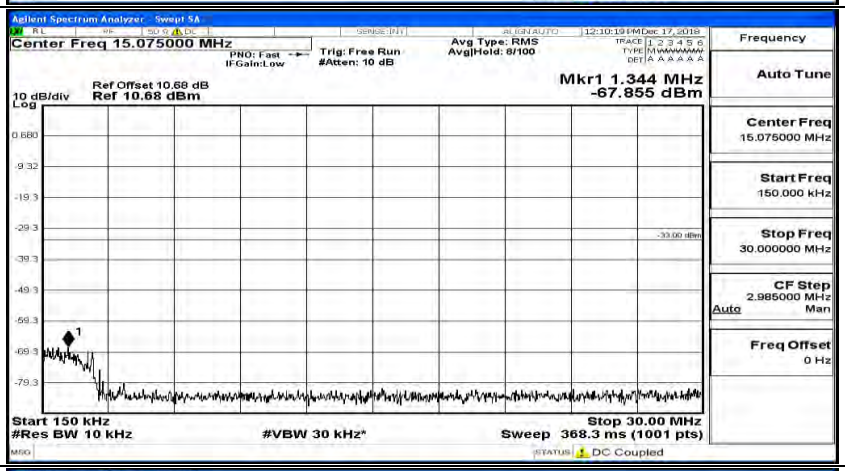
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#7





(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0

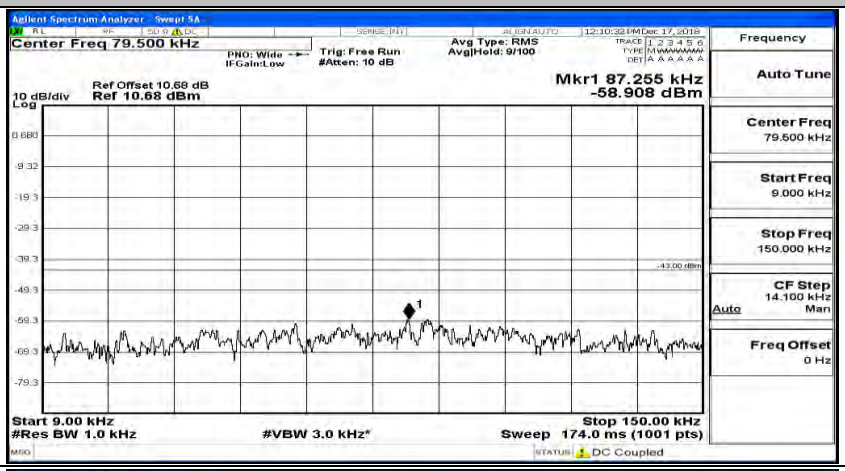

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 8/100
12:10:14 PM Dec 17, 2018
Ref Offset 10.68 dB
10 dB/div Ref 10.68 dBm
Log
Mkr1 9.000 kHz
-72.157 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.0 ms (1001 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

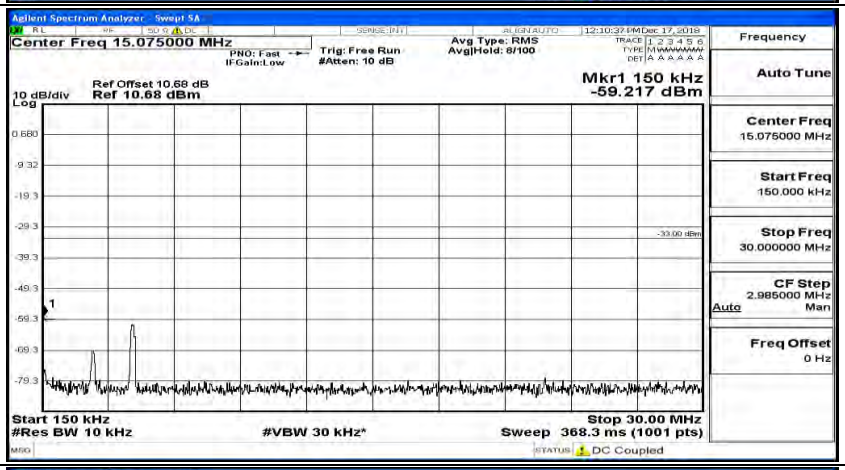

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 8/100
12:10:19 PM Dec 17, 2018
Ref Offset 10.68 dB
10 dB/div Ref 10.68 dBm
Log
Mkr1 1.344 MHz
-67.855 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.3 ms (1001 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: 4/100
12:10:22 PM Dec 17, 2018
Ref Offset 10.08 dB
10 dB/div Ref 30.00 dBm
Log
Mkr2 25.740 GHz
-28.452 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.93 ms (1001 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

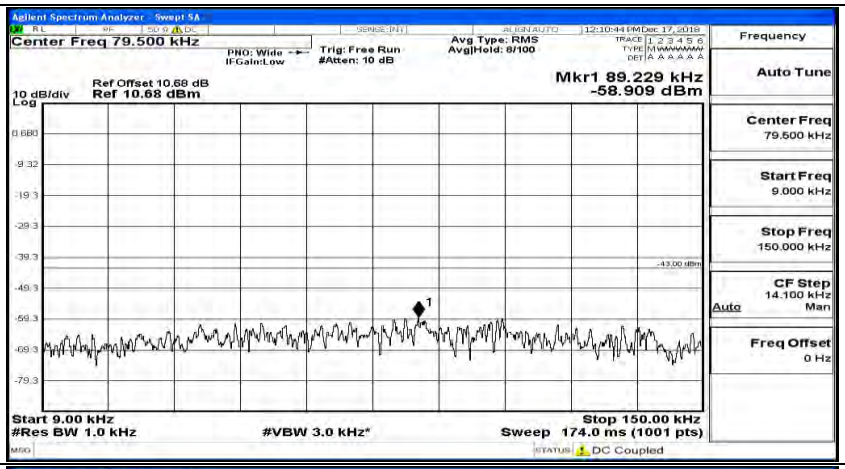
Channel Bandwidth: 5 MHz

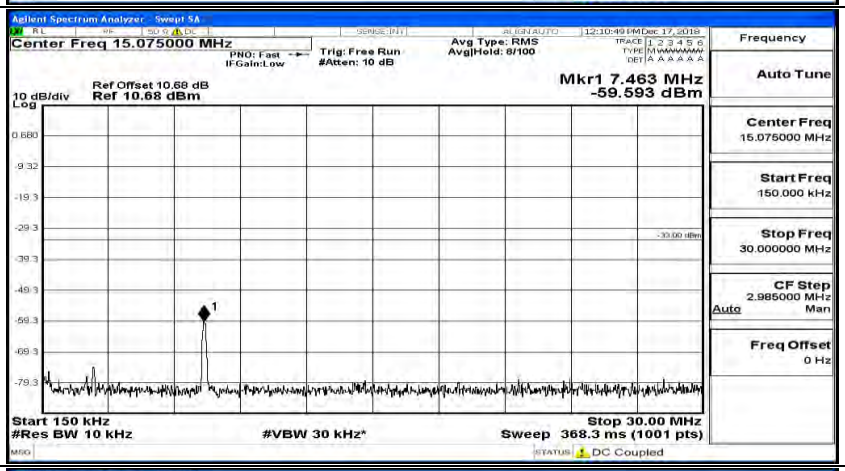
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



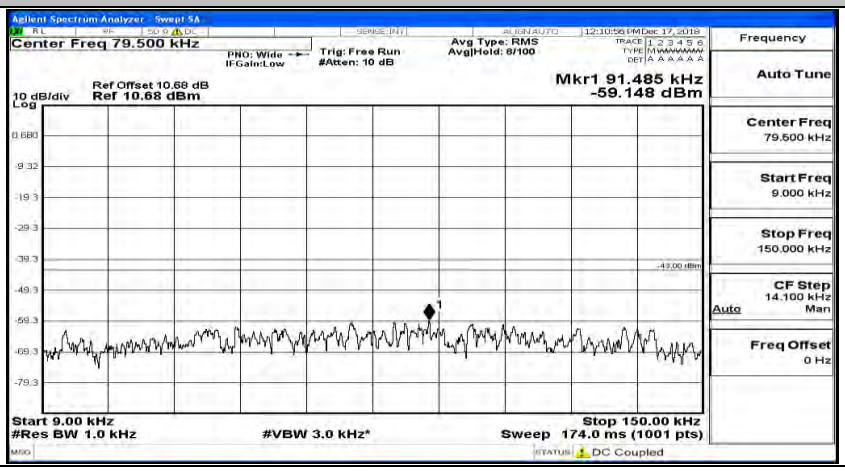


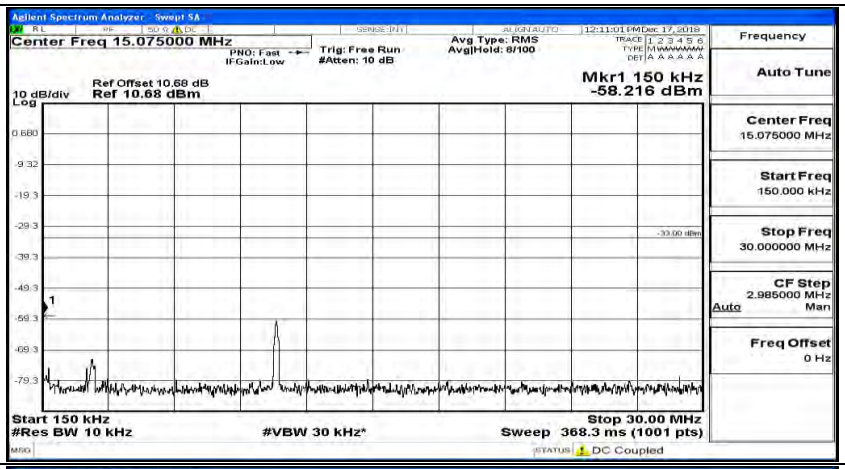
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12



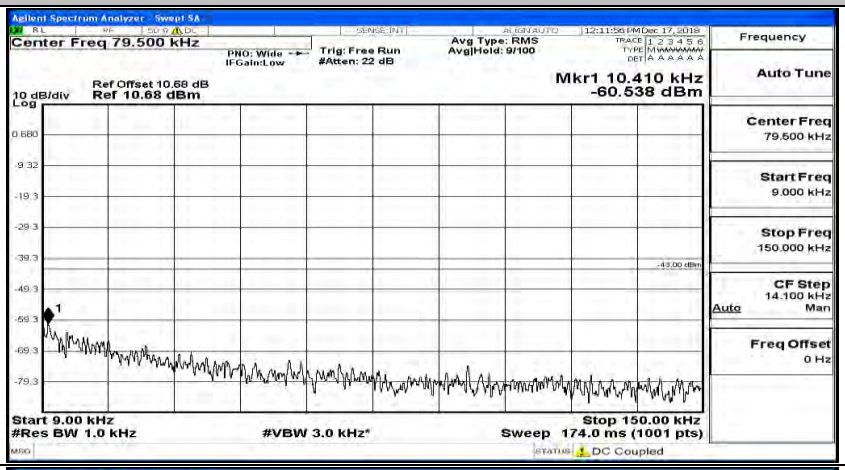


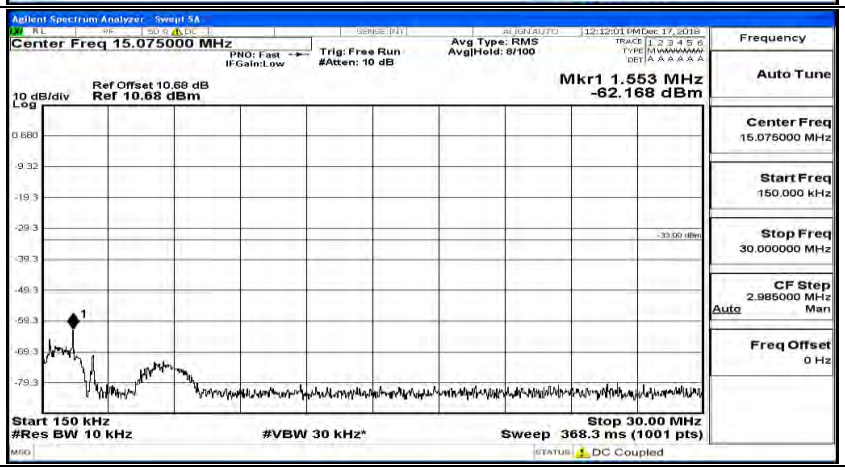
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24



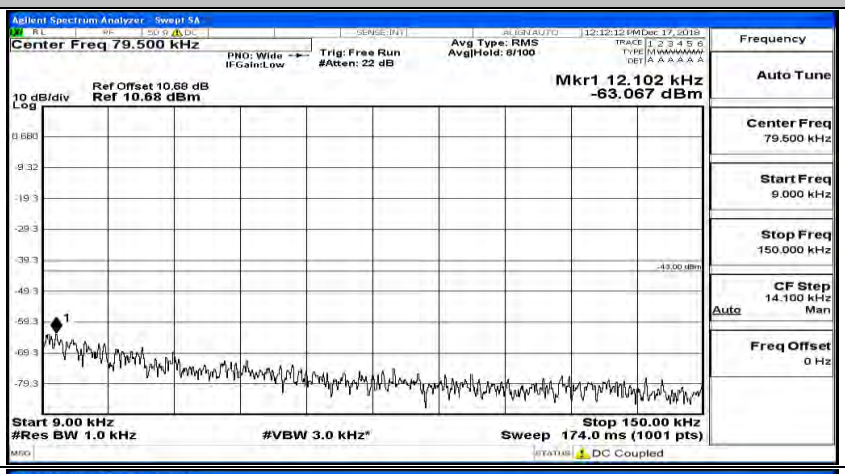


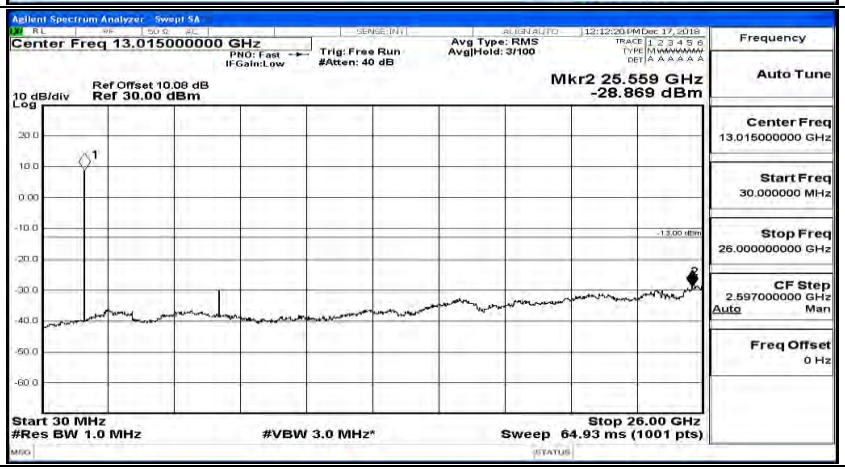
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0



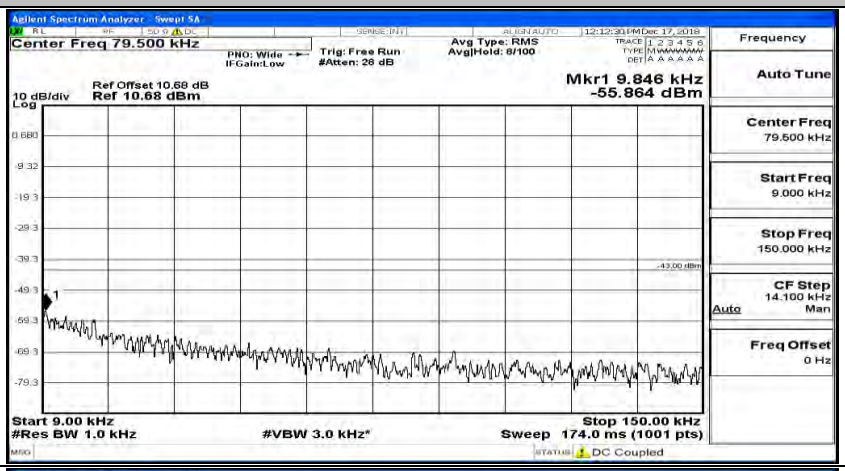


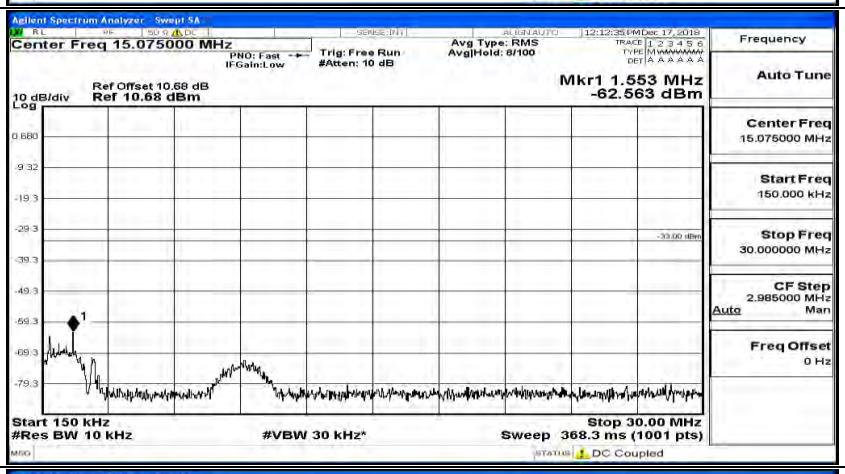
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6



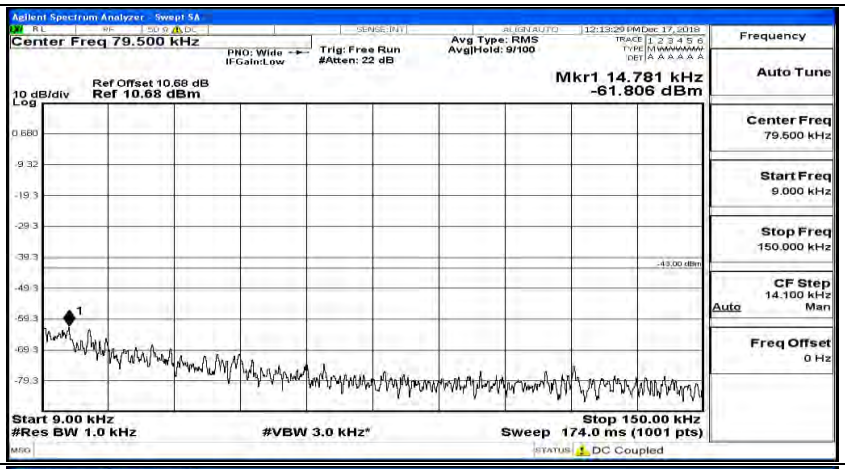


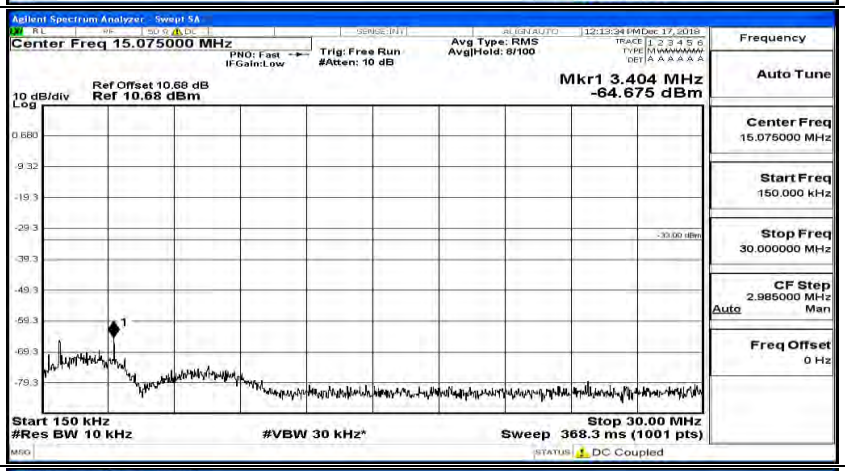
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13





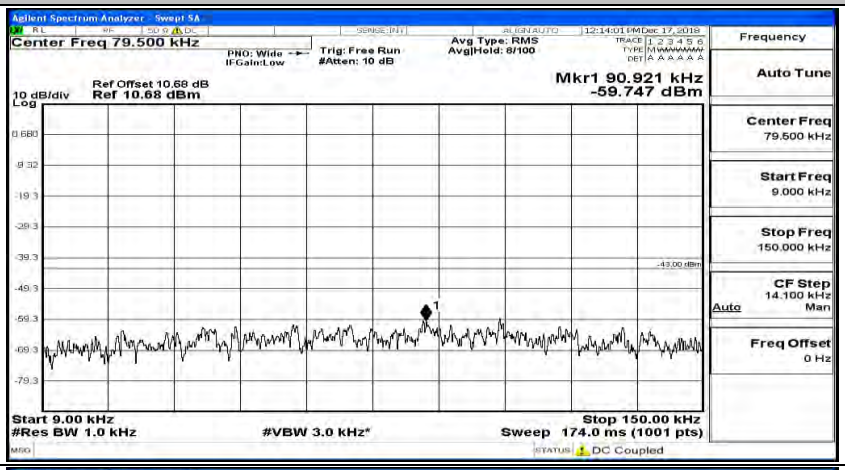
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0

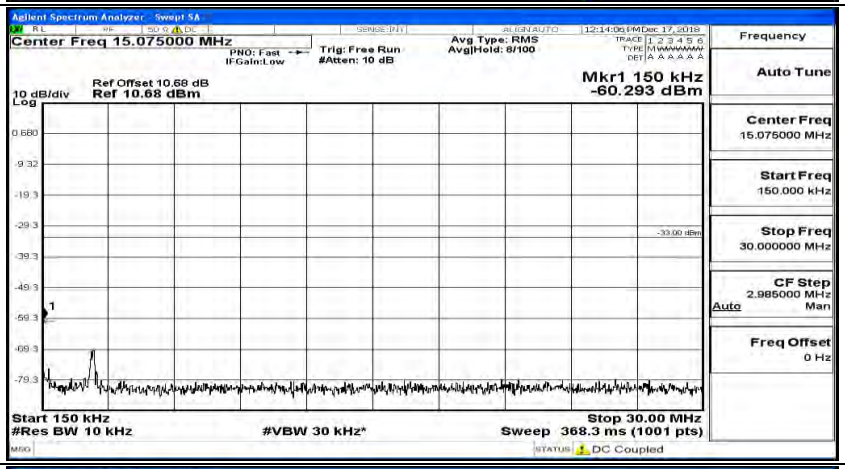

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: RMS
Avg|Hold: 9/100
12:13:29 PM Dec 17, 2018
Ref Offset 10.68 dB
10 dB/div Ref 10.68 dBm
Log
Mkr1 14.781 kHz
-61.806 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.0 ms (1001 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

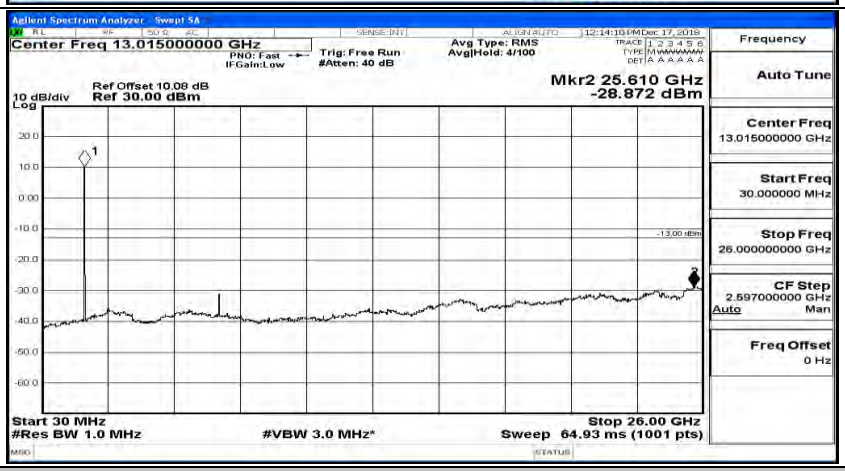

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 8/100
12:13:34 PM Dec 17, 2018
Ref Offset 10.68 dB
10 dB/div Ref 10.68 dBm
Log
Mkr1 3.404 MHz
-64.675 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.3 ms (1001 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: 3/100
12:13:38 PM Dec 17, 2018
Ref Offset 10.08 dB
10 dB/div Ref 30.00 dBm
Log
Mkr2 25.740 GHz
-28.433 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.93 ms (1001 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

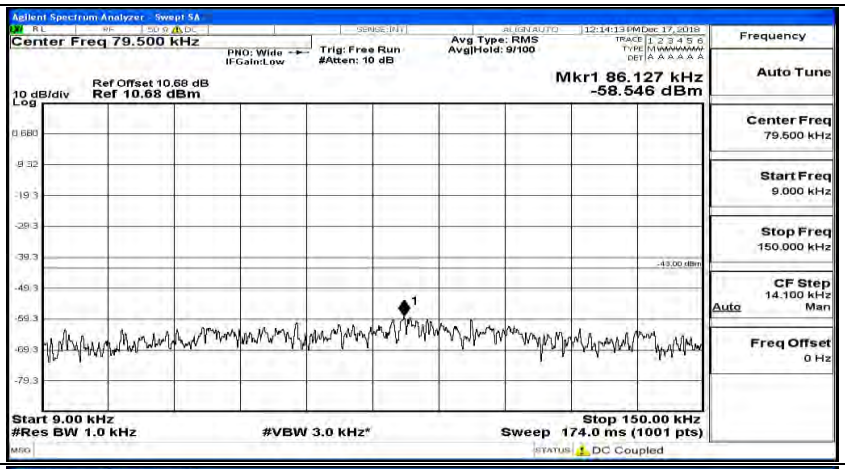
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

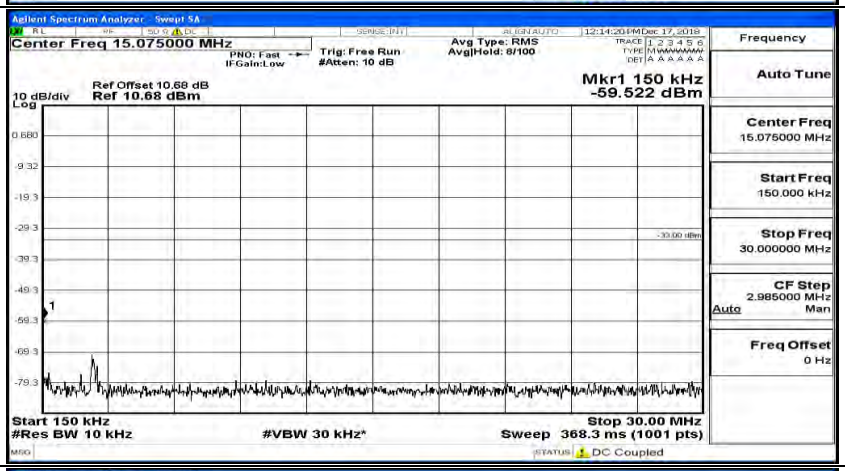




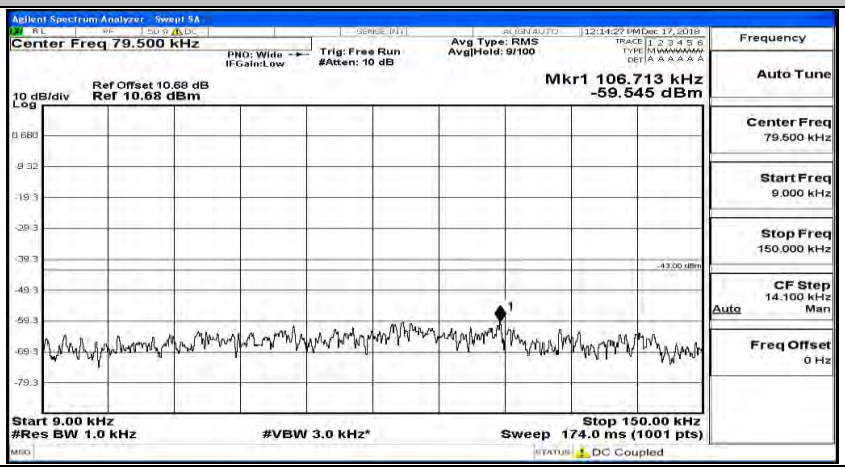


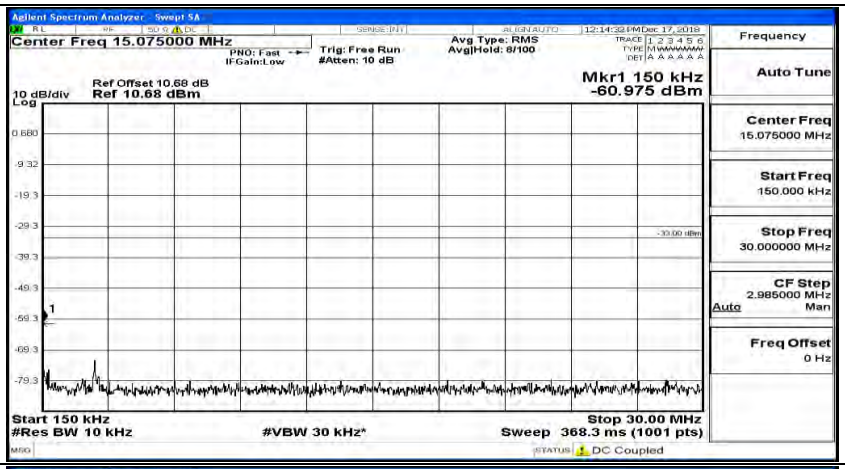
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12



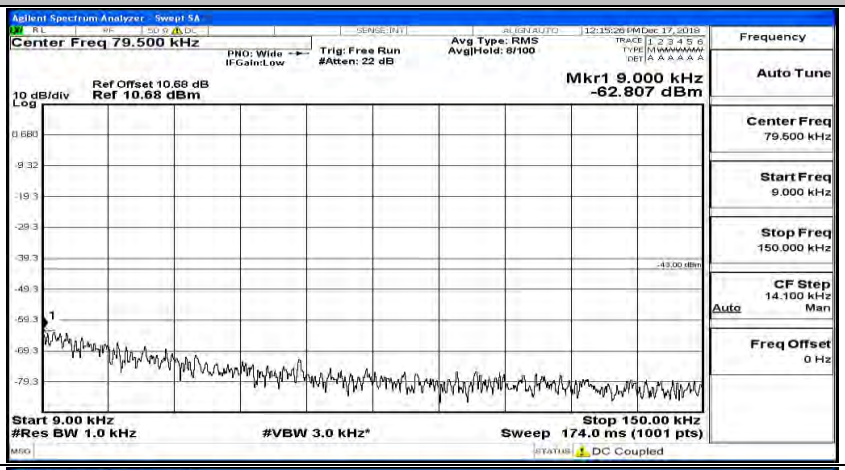


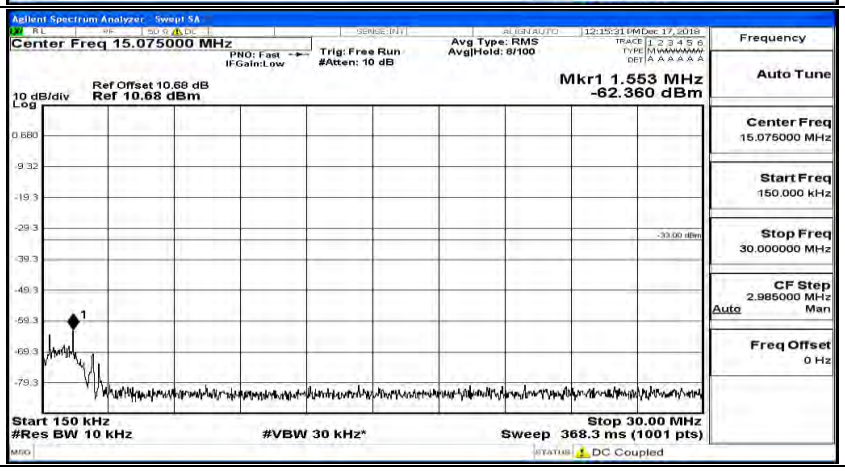
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24



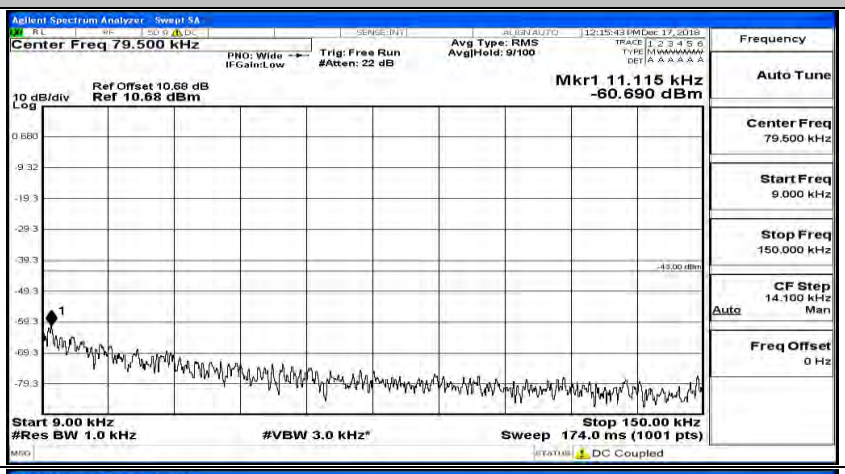


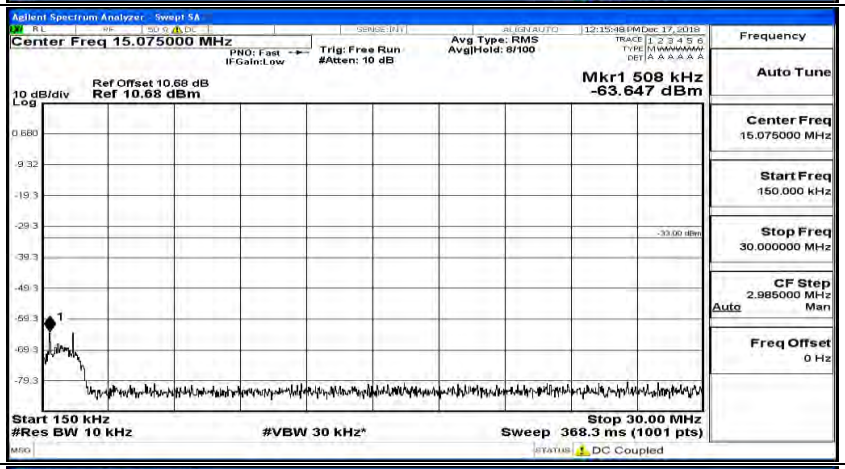
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#0



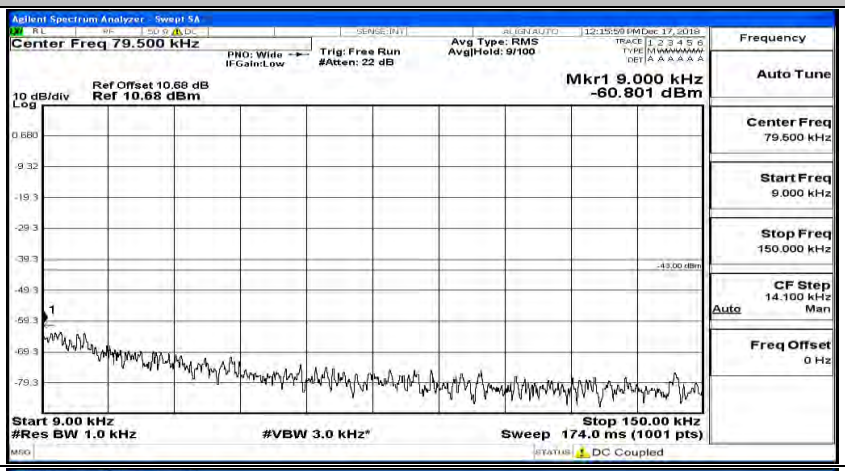


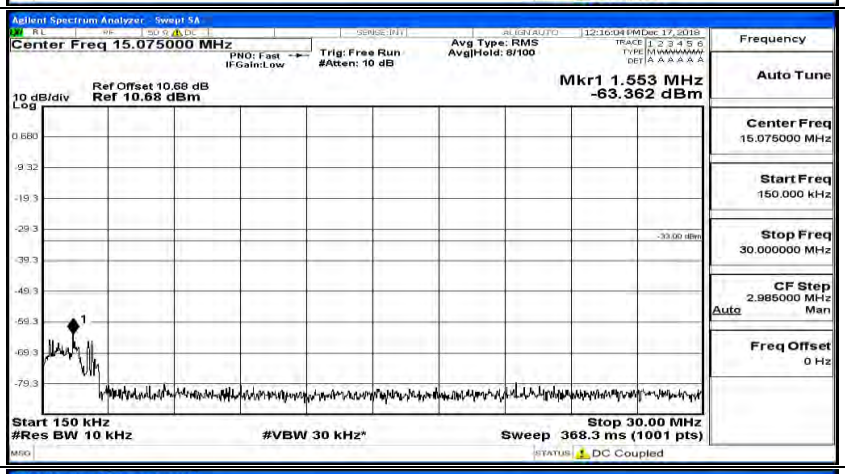
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#6



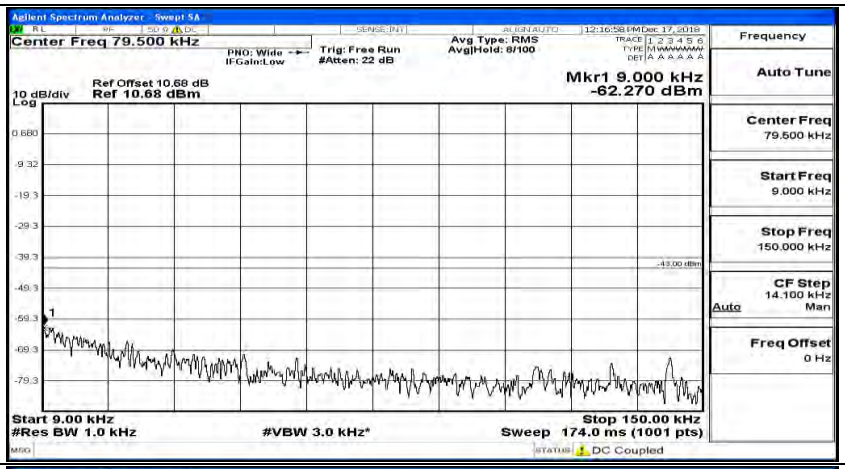


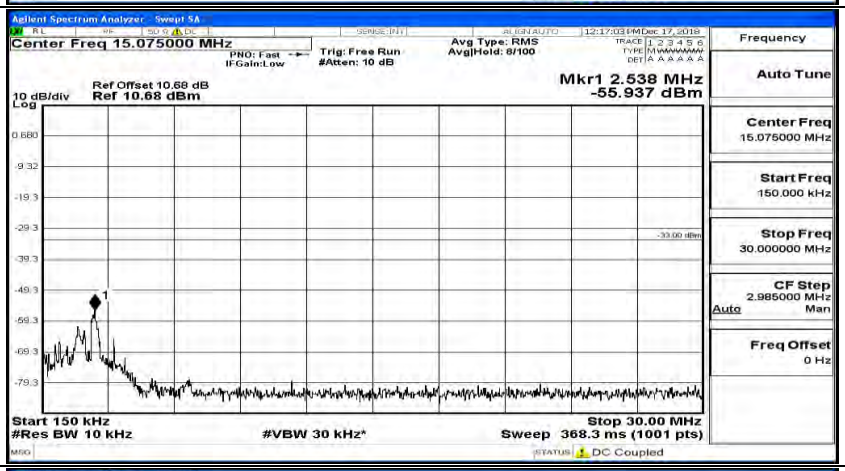
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#13

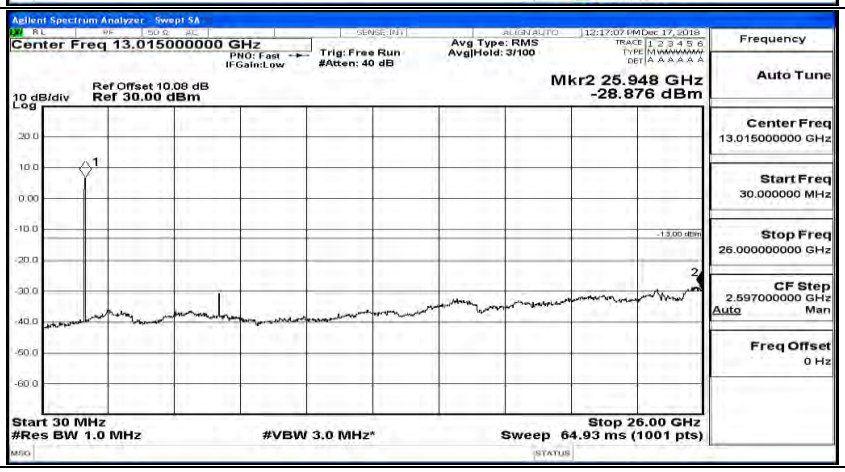




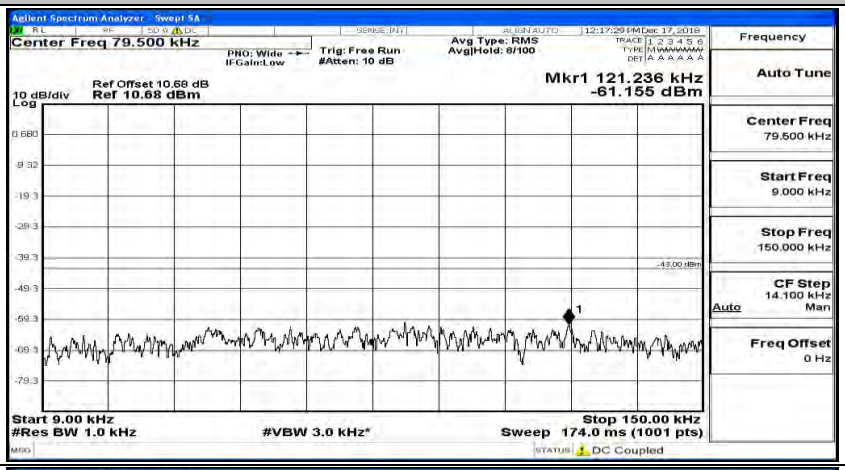
(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0

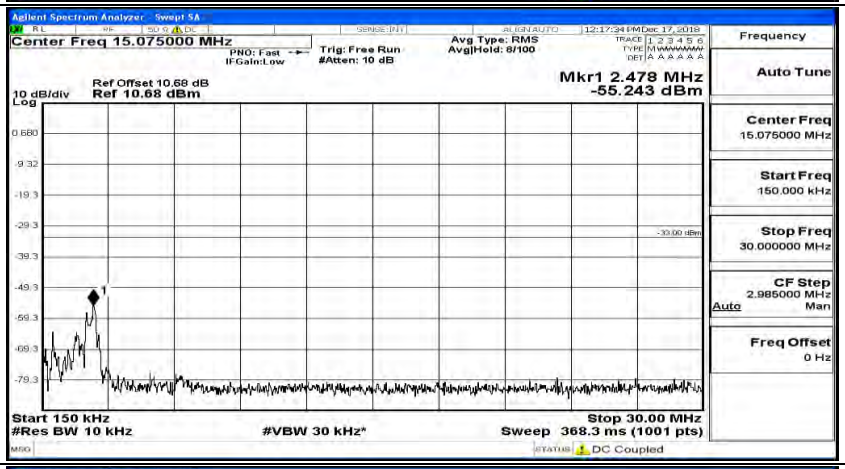

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: RMS
Avg|Hold: 8/100
12:16:58 PM Dec 17, 2018
Ref Offset 10.68 dB
10 dB/div Ref 10.68 dBm
Mkr1 9.000 kHz
-62.270 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.0 ms (1001 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: 8/100
12:17:03 PM Dec 17, 2018
Ref Offset 10.68 dB
10 dB/div Ref 10.68 dBm
Mkr1 2.538 MHz
-55.937 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.3 ms (1001 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

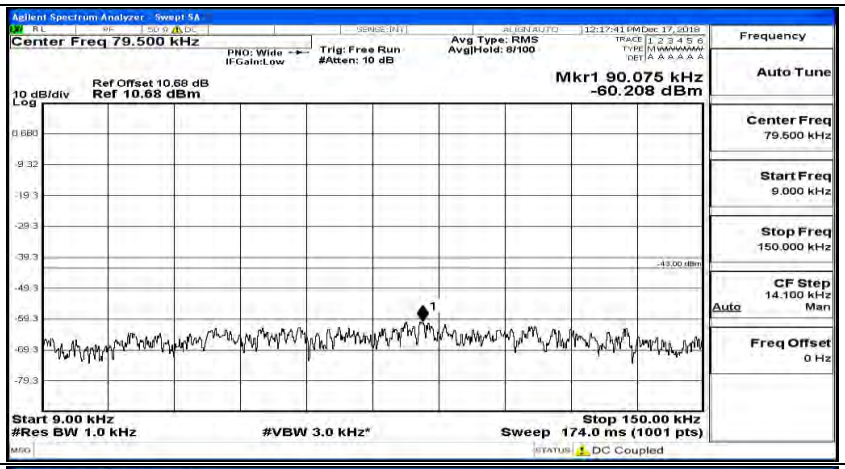

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 3/100
12:17:07 PM Dec 17, 2018
Ref Offset 10.08 dB
10 dB/div Ref 30.00 dBm
Mkr2 25.948 GHz
-28.876 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.93 ms (1001 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

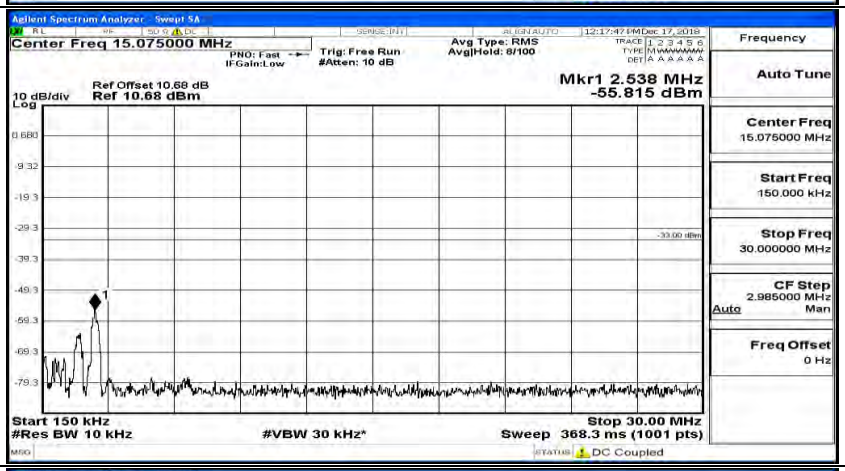
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



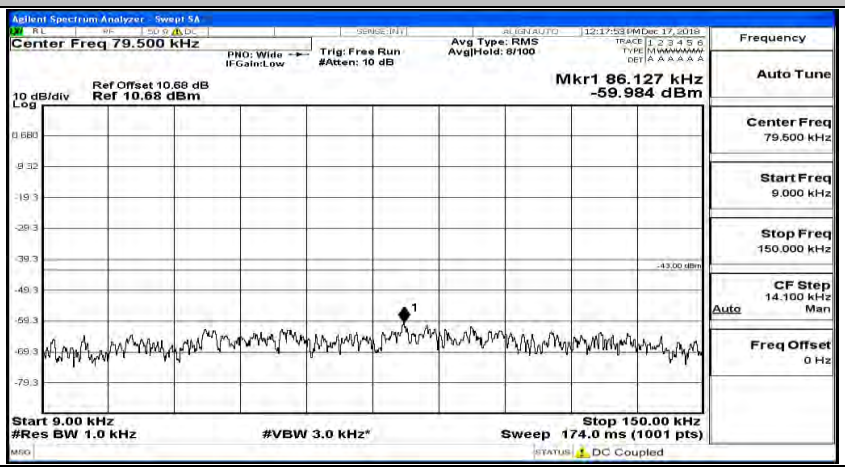


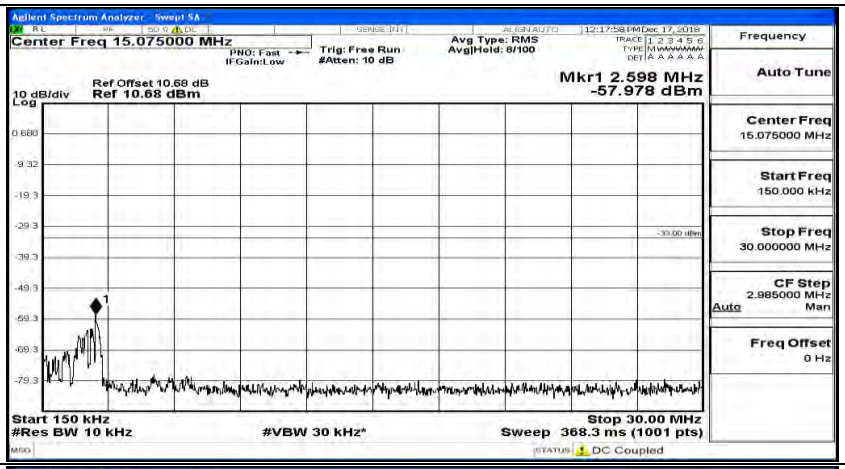
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12



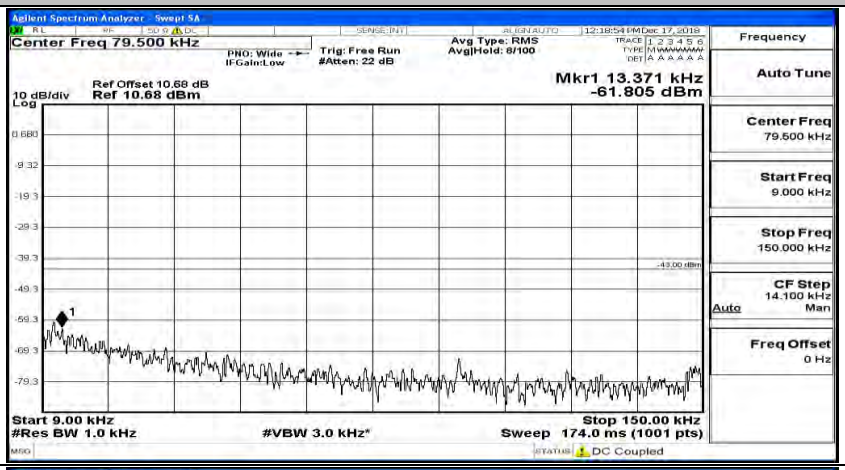


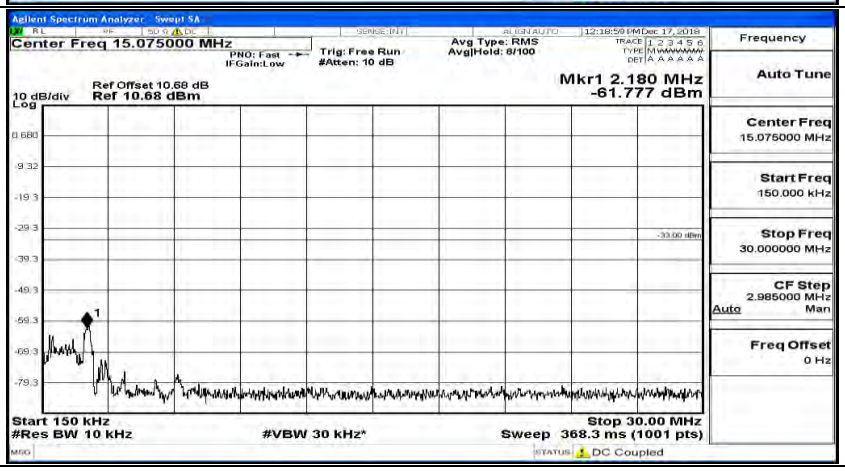
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24



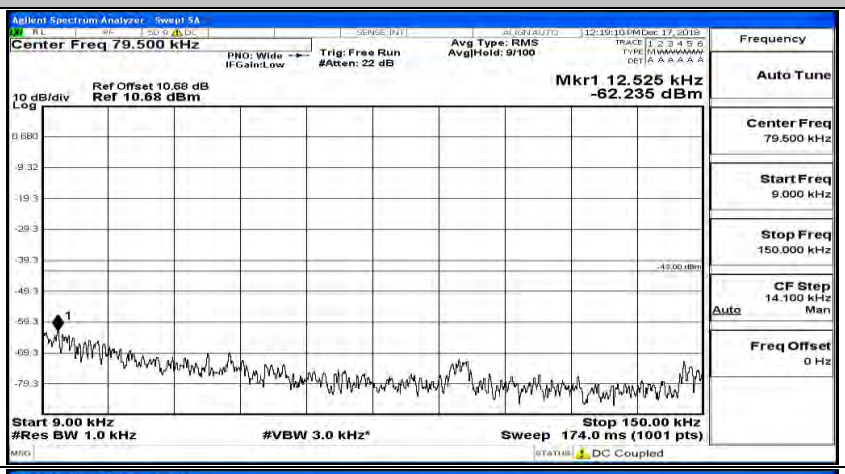


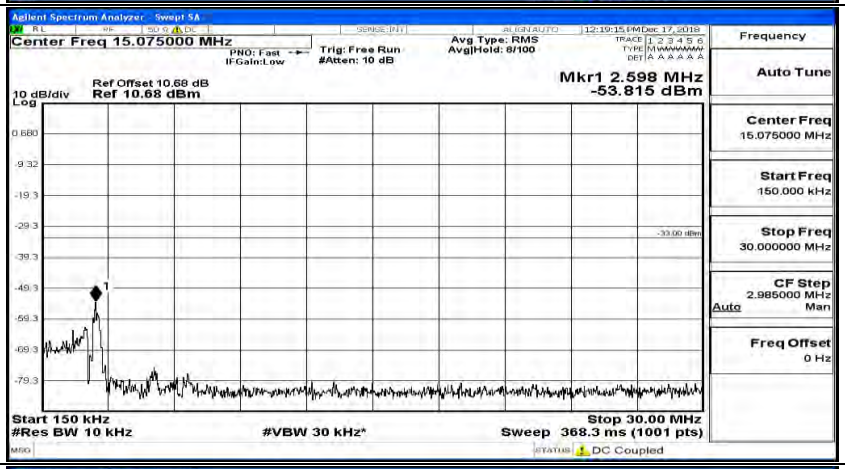
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0



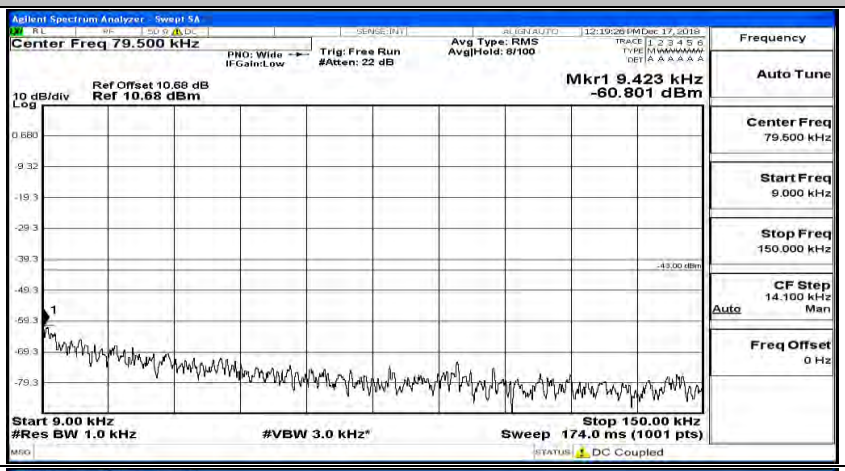


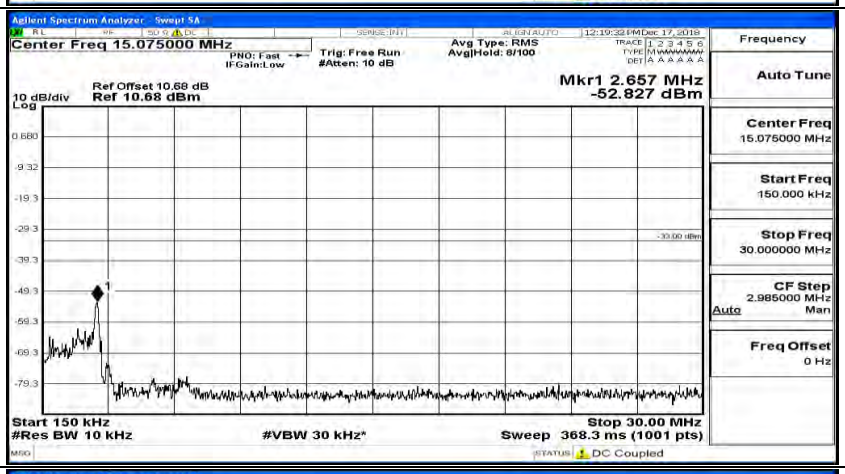
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6



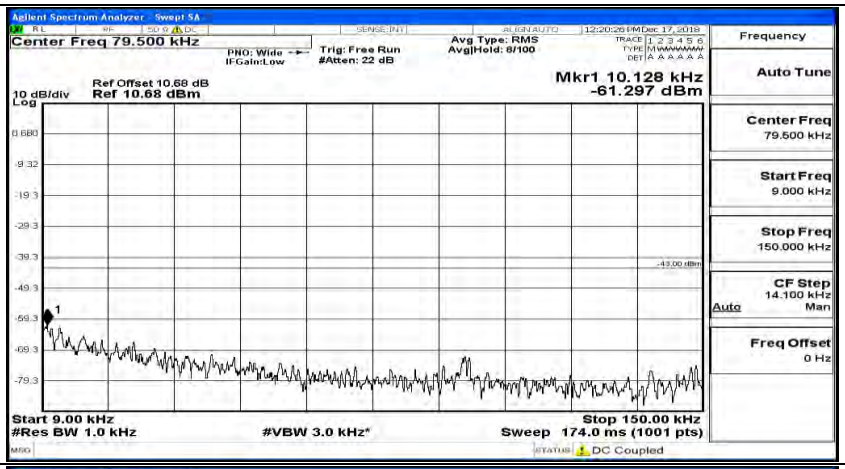


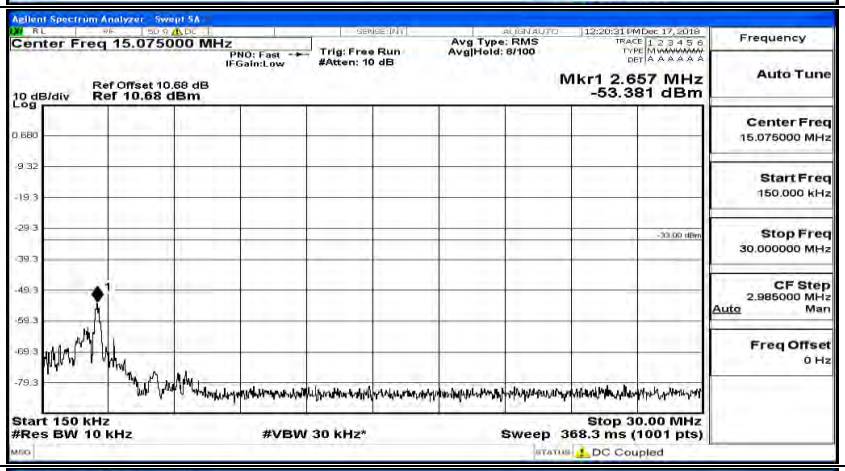
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13



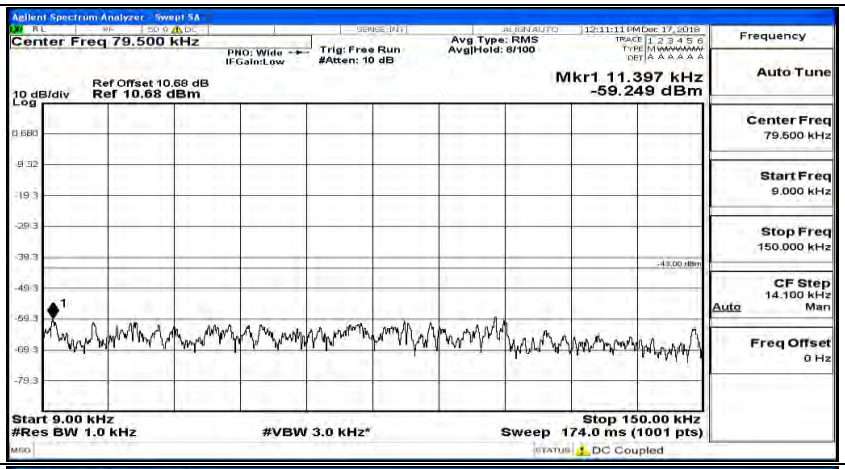


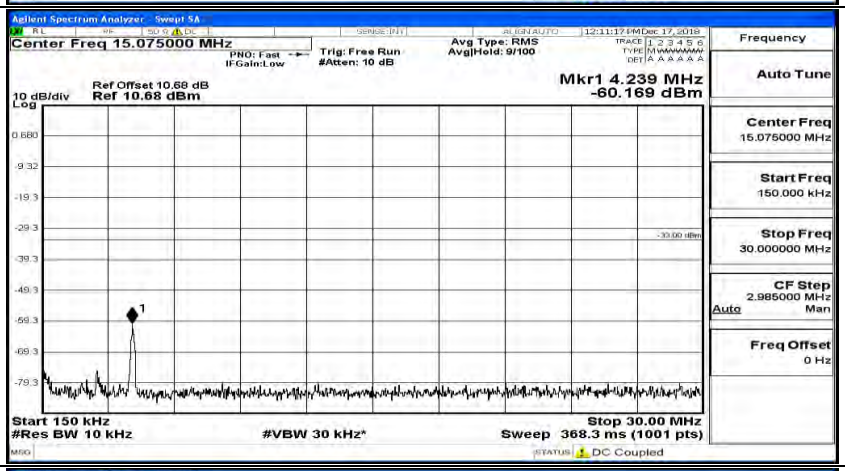
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



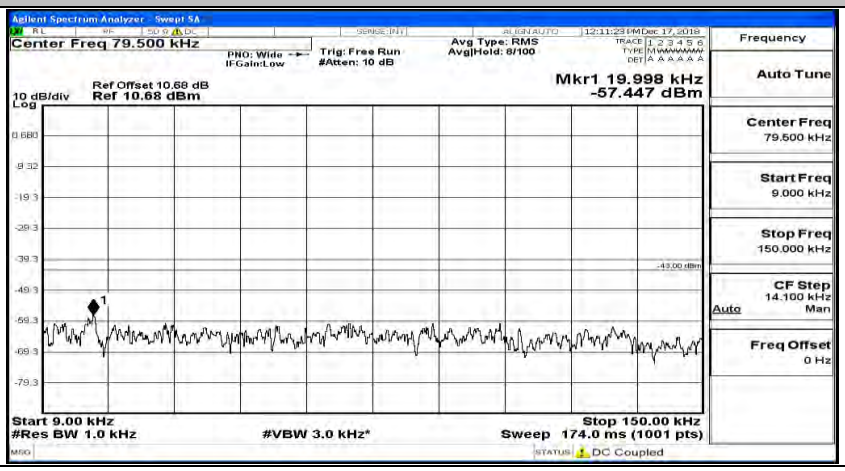


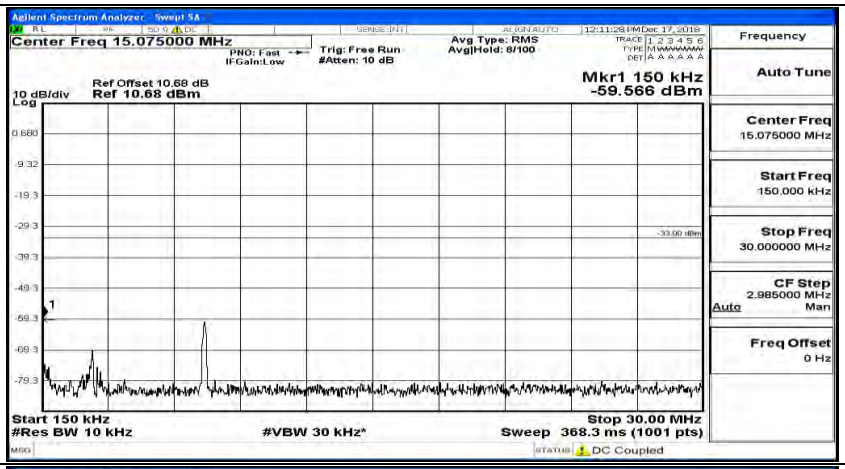
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



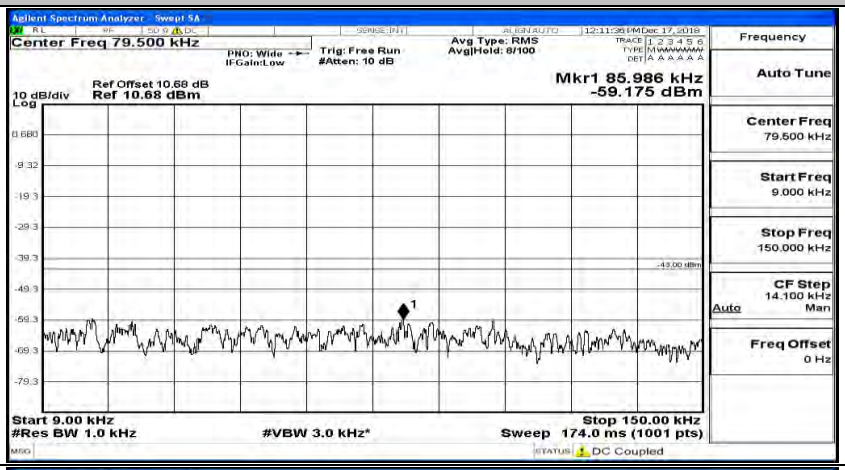


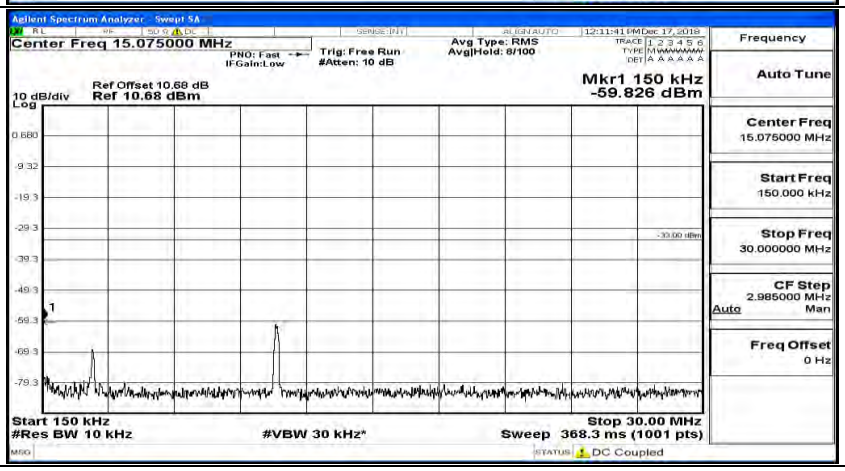
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12



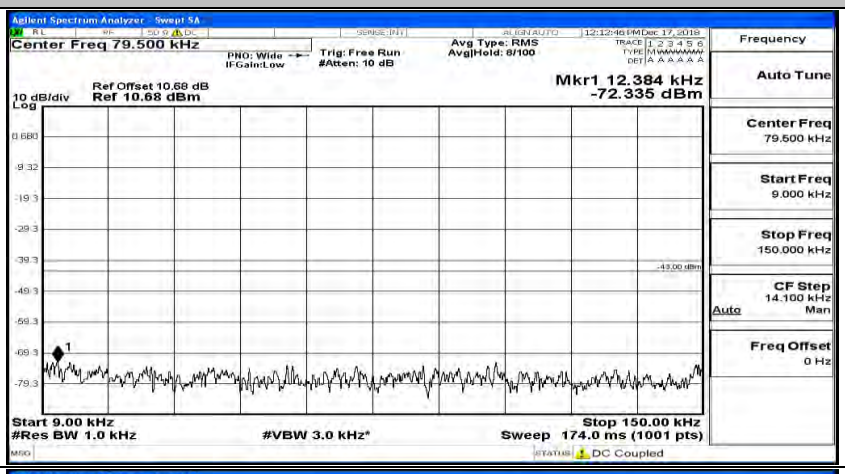


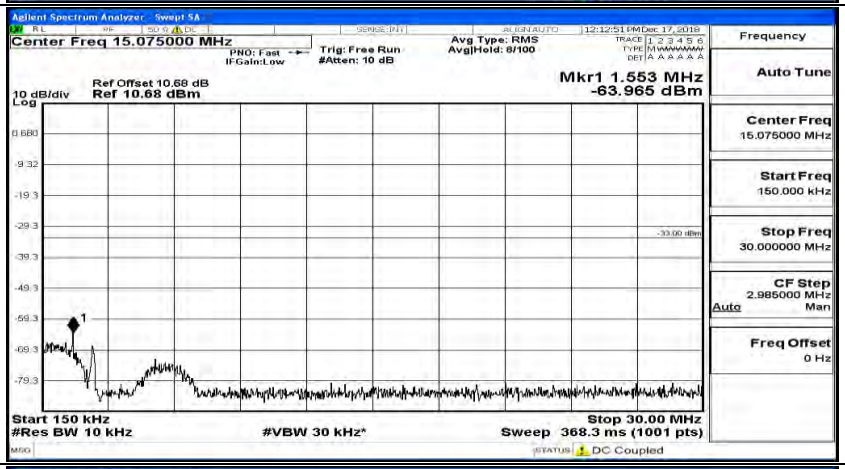
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24



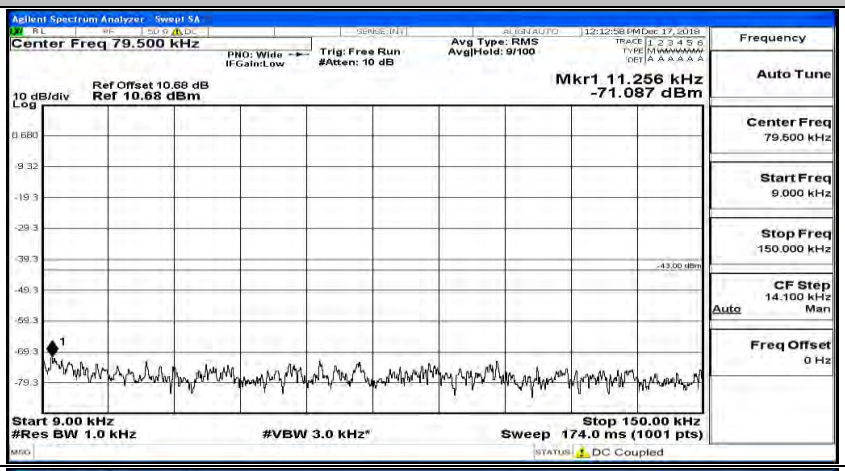


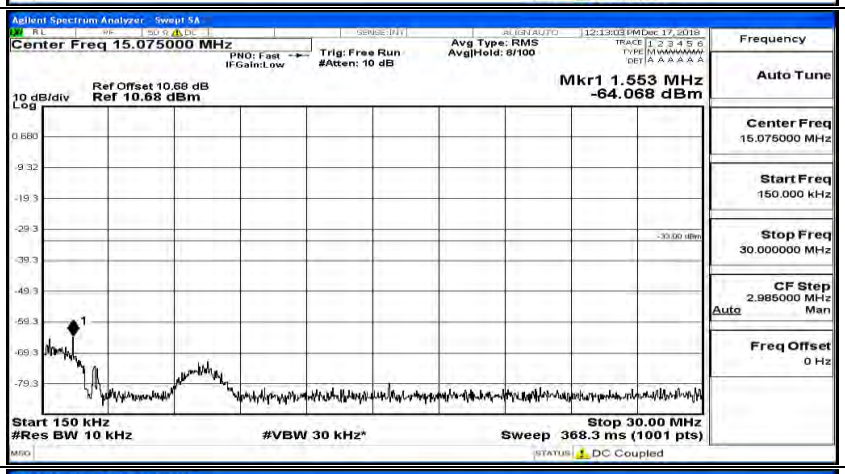
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0



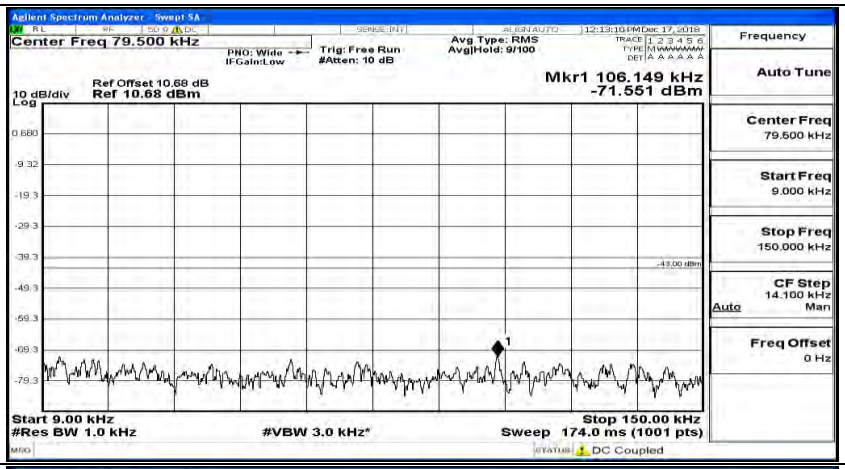


(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6

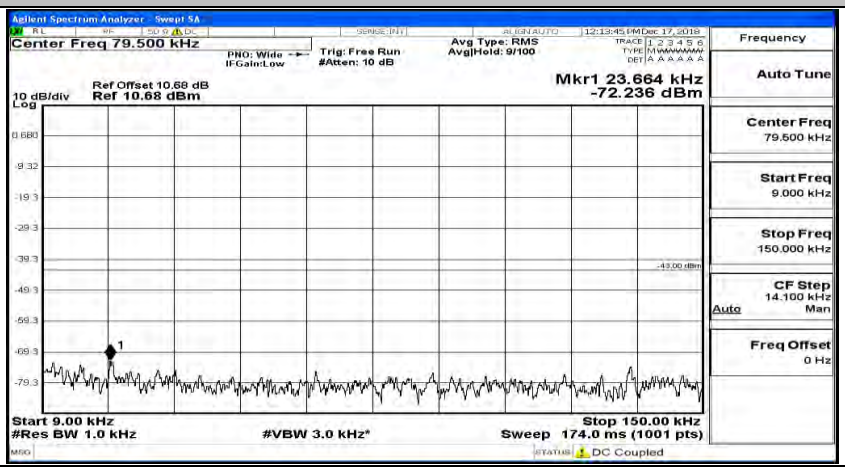


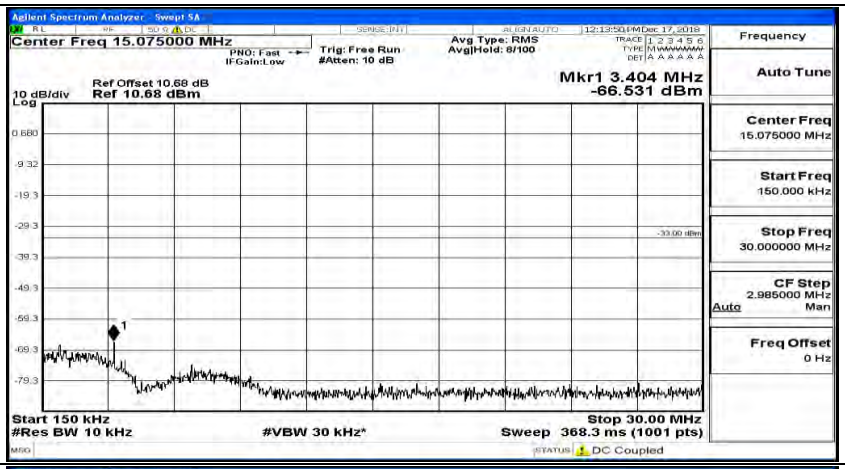


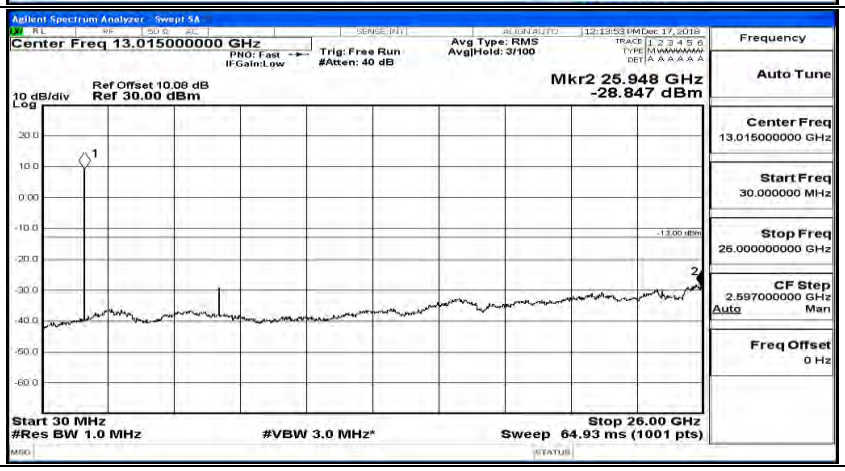
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13



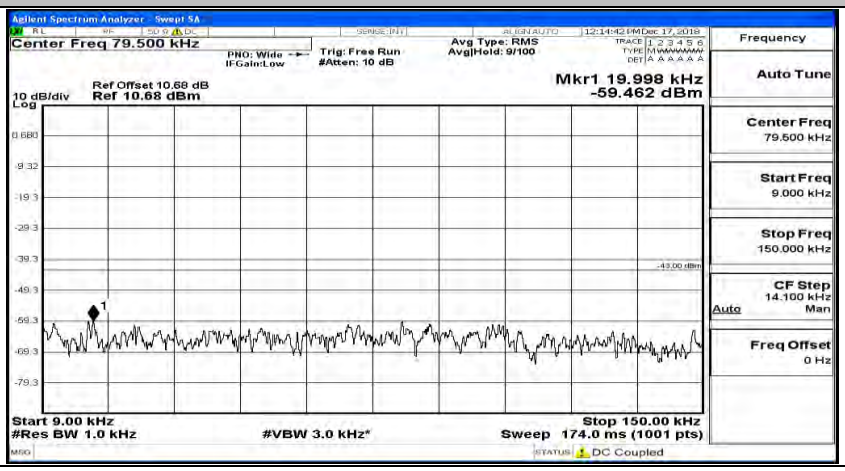
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0

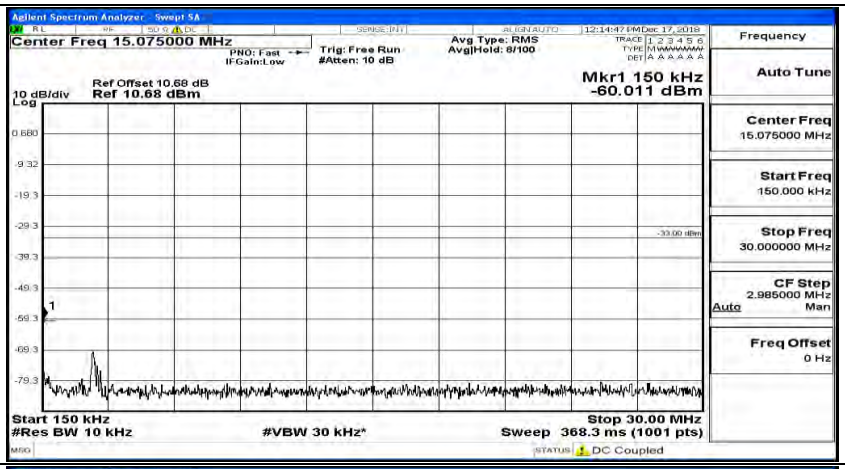




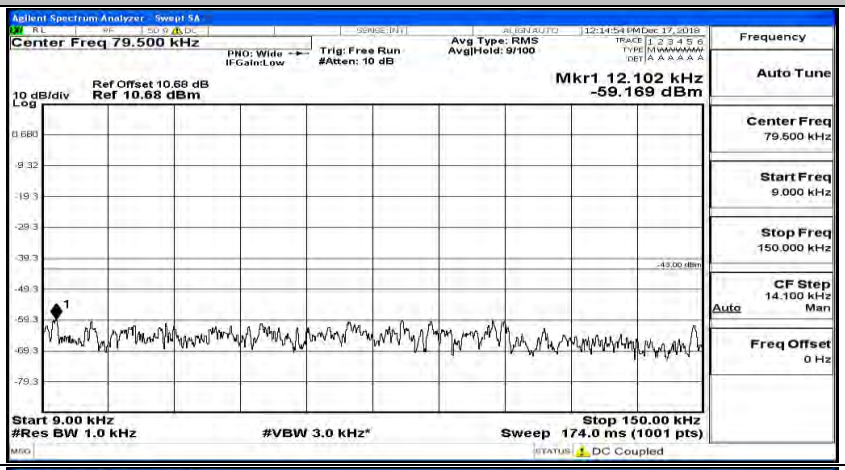


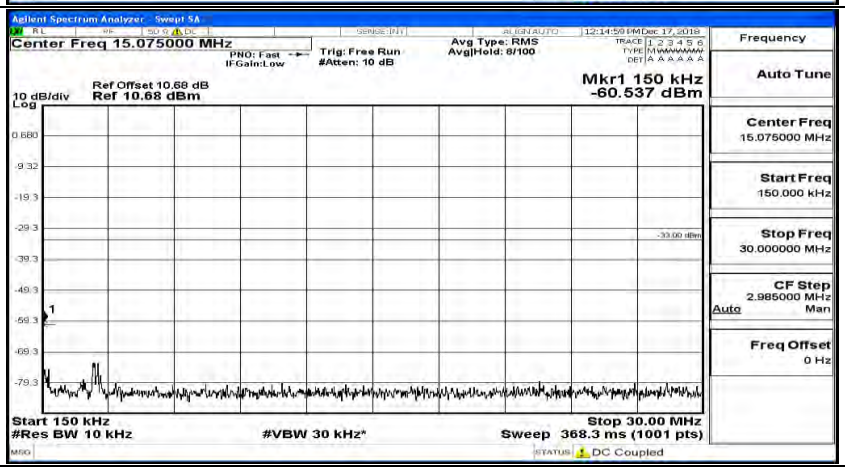
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0



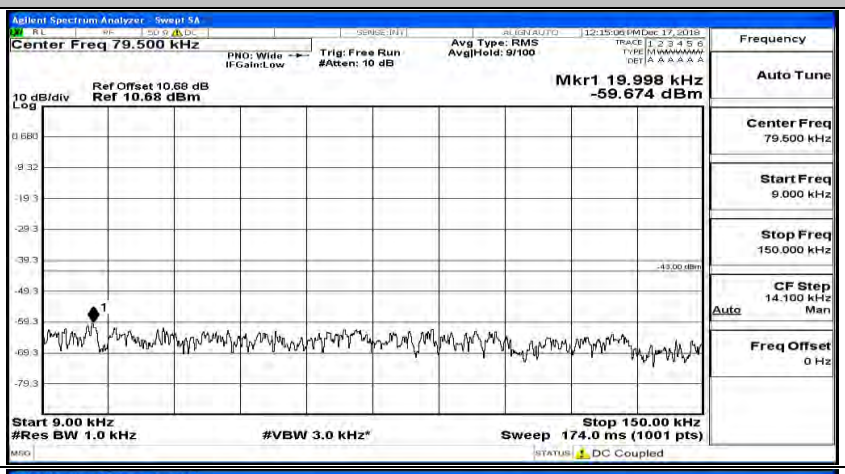


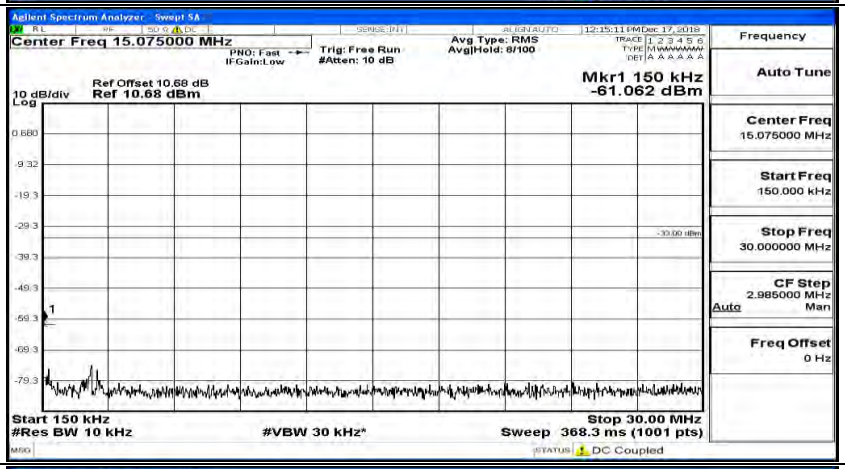
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12



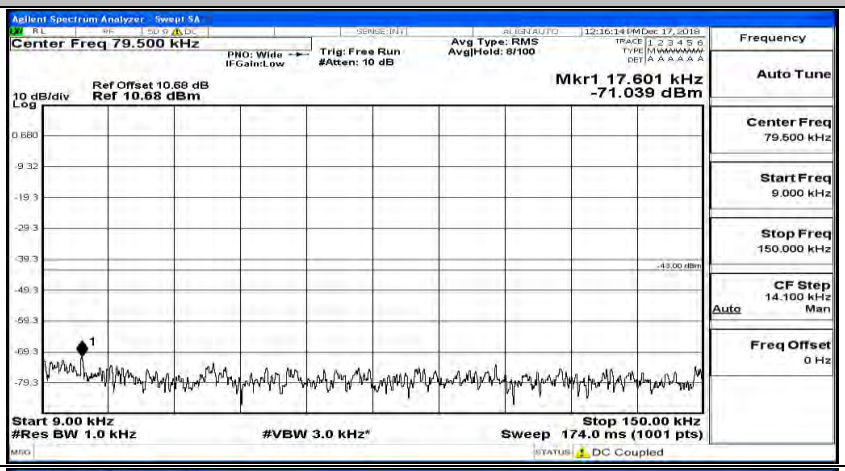


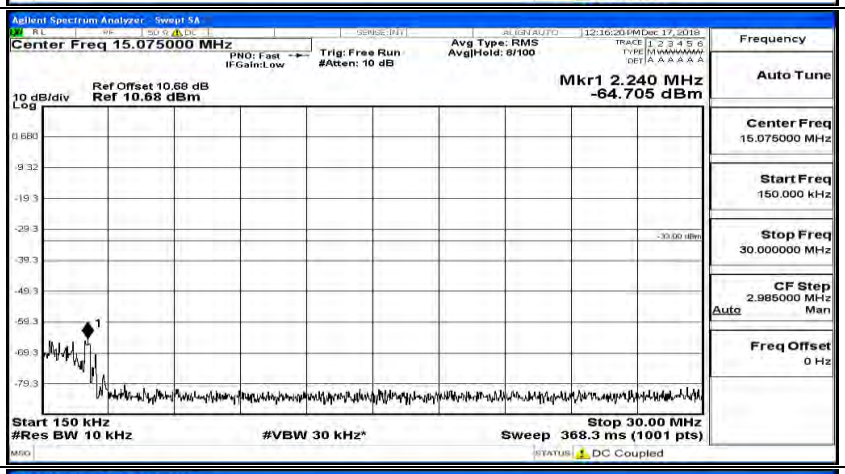
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24



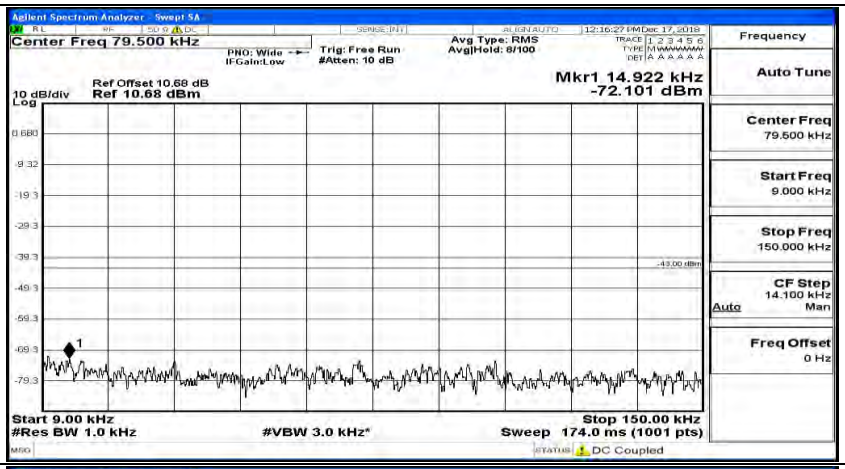


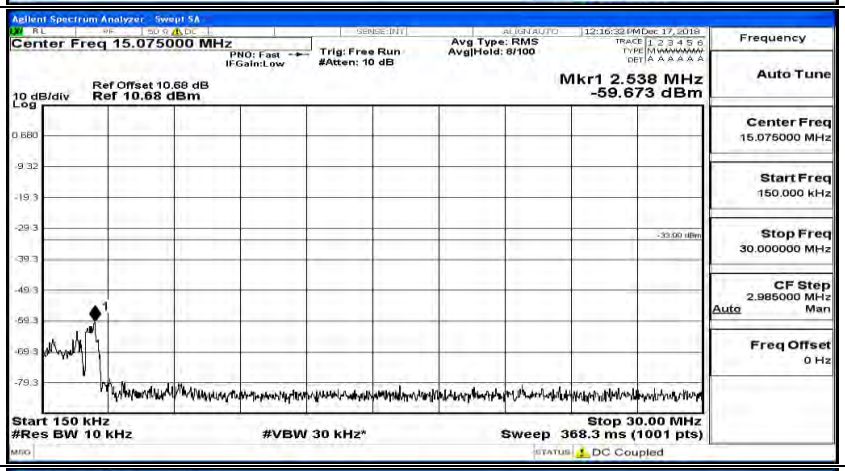
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#0





(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#6





(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#13