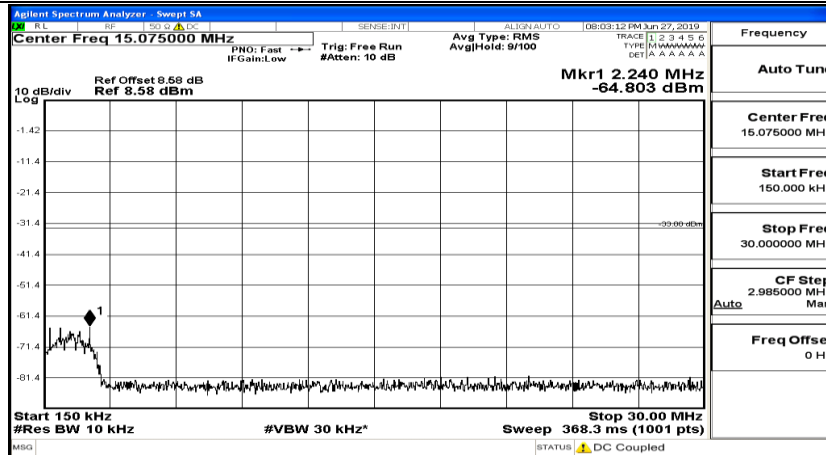
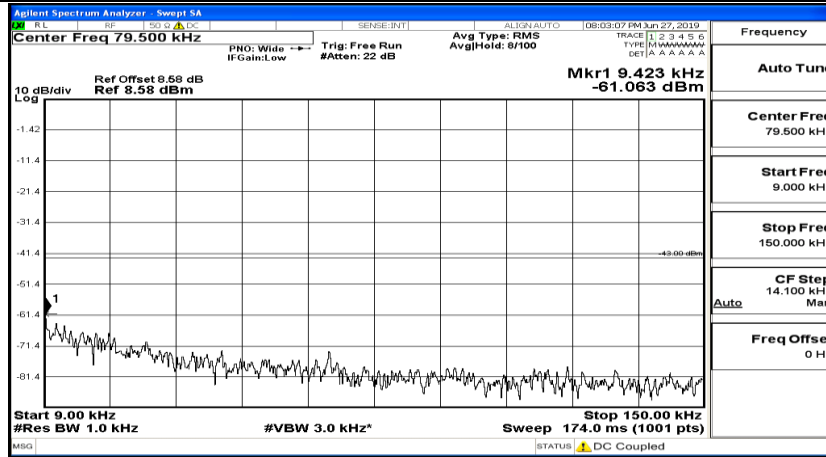
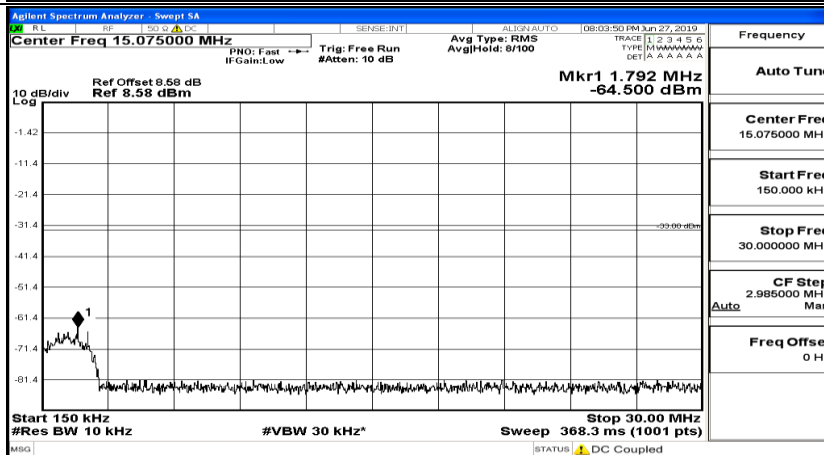
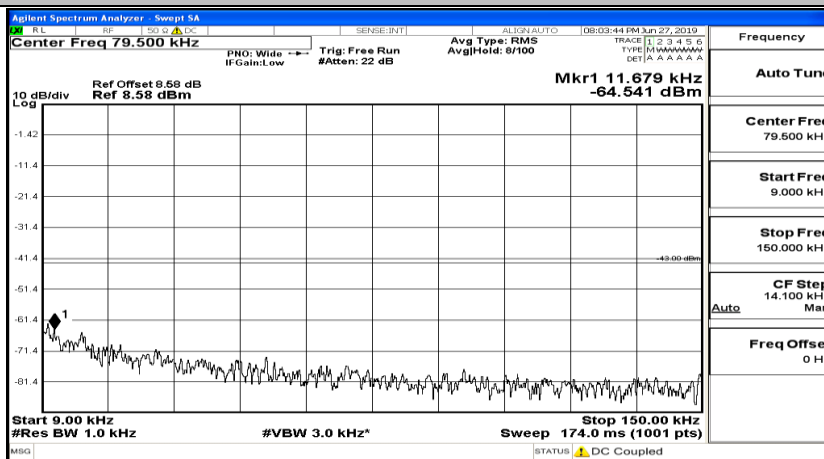


CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



Agilent Spectrum Analyzer - Snoop SA

RL 150.0 kHz DC SENSE: INT

Center Freq 79.500 kHz

PNO: Wide → Trg: Free Run #Atten: 22 dB

Avg Type: RMS AvgHold: 9/100

DATE: 08-04-22 PM 3:27, 2019

TRACE 1 2 3 4 5 6

TYPE: IAWAAAAA

DET: AAAAAA

10 dB/div Log

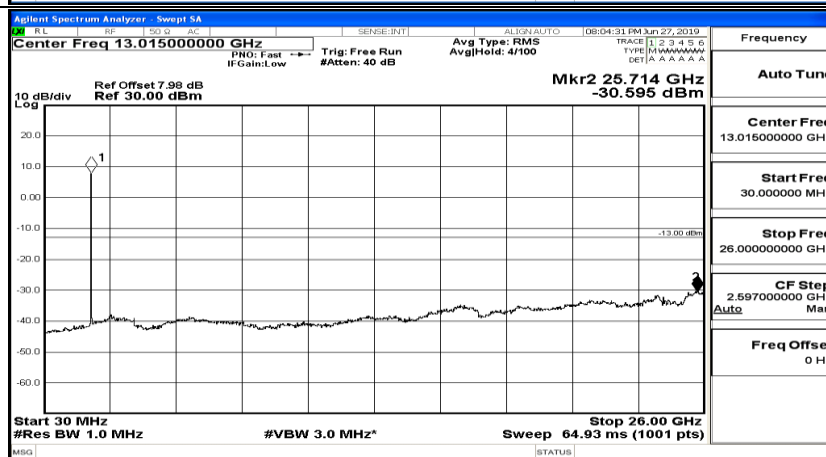
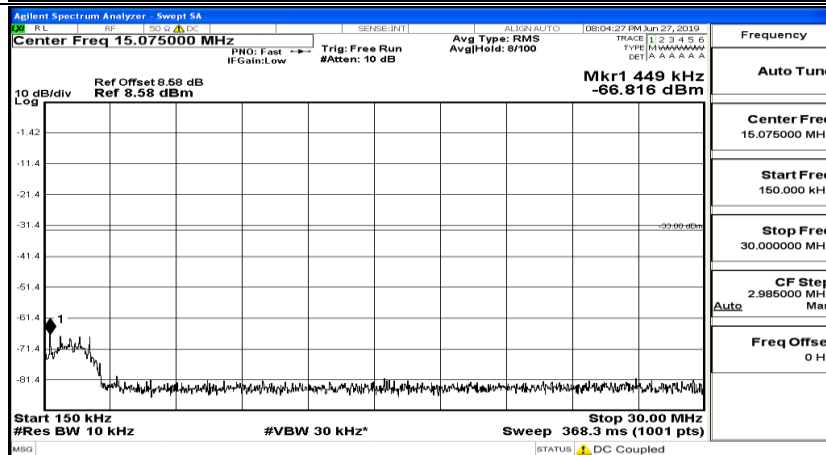
Ref Offset: 9.50 dB Ref 8.58 dBm

Mkr1 10.128 kHz -61.531 dBm

Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz* Stop 150.0 kHz Sweep 174.0 ms (1001 pts)

MSG STATUS: DC Coupled

Frequency	Auto Tun
Center Freq 79.500 kHz	
Start Freq 9.000 kHz	
Stop Freq 150.000 kHz	
CF Step 14.100 kHz	Man
Freq Offset 0 Hz	



Agilent Spectrum Analyzer - Sweep SA

R/L ☐ R ☒ L ☐ DC

SENSE: INT

ALIGN: AUTO

DATE: 03:23 PM Jun 27, 2019

Center Freq 79.500 kHz

Ref Offset: 9.50 dB

Ref 8.58 dBm

PNO: Wide $\rightarrow$

Trig: Free Run

#A: 10 dB

Avg Type: RMS

Avg Hold: 9/100

TRACE 1 2 3 4 5 6

TYPE: DWWWWWW

DET: A A A A A A

Mkr1 130.965 kHz

-72.120 dBm

10 dB/div

Log

-1.42

-11.4

-21.4

-31.4

-41.4

-51.4

-61.4

-71.4

-81.4

-43.00 dBm

Start 9.00 kHz

#Res BW 1.0 kHz

#VBW 3.0 kHz*

Sweep 150.00 kHz

174.0 ms (1001 pts)

MSG

STATUS: ☒ DC Coupled

Frequency

Auto Tun

Center Freq

79.500 kHz

Start Freq

9.000 kHz

Stop Freq

150.000 kHz

CF Step

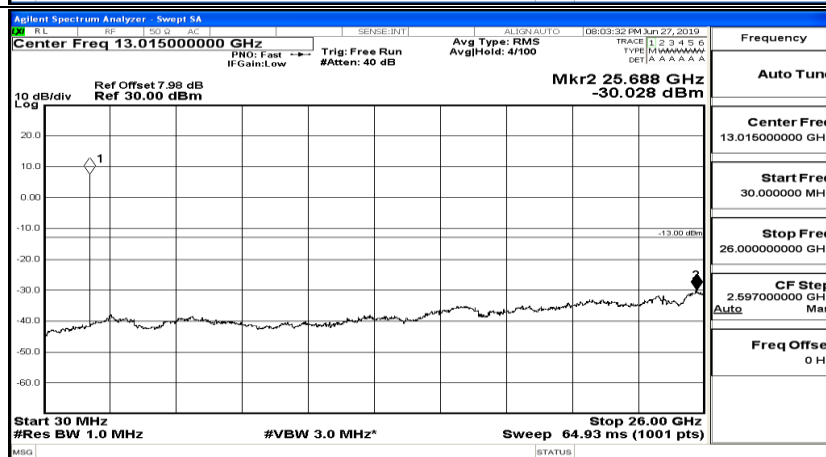
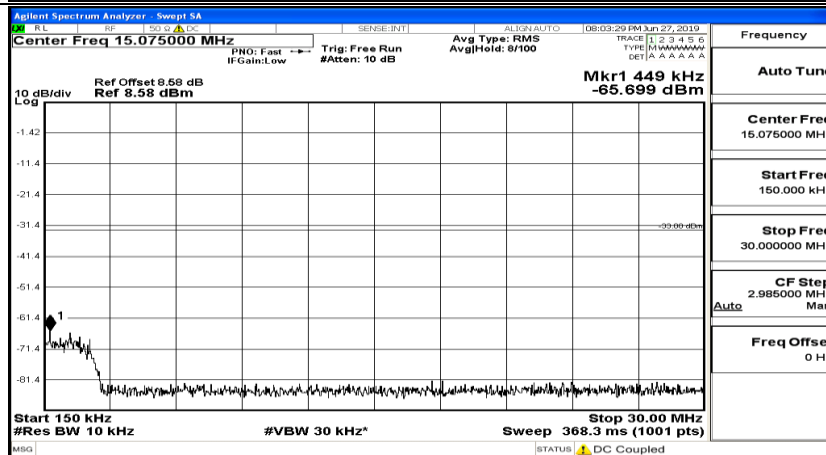
14.100 kHz

Auto

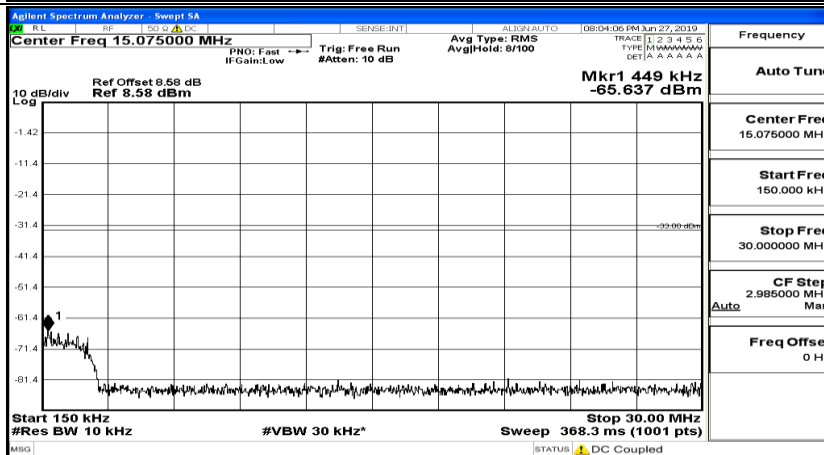
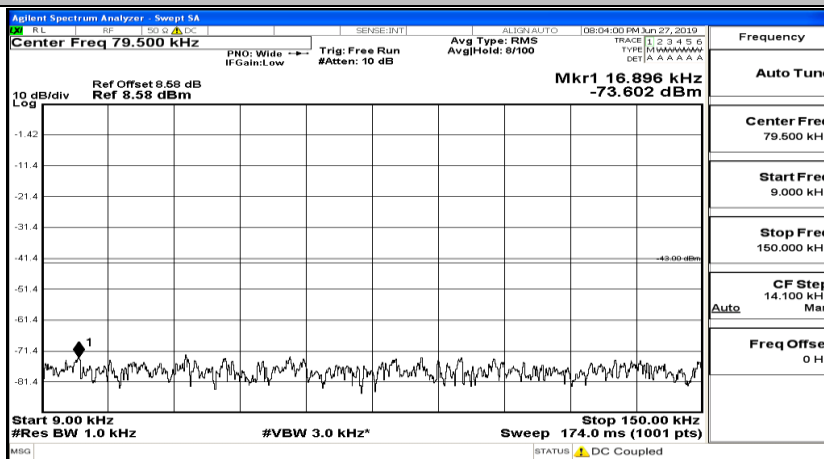
Man

Freq Offset

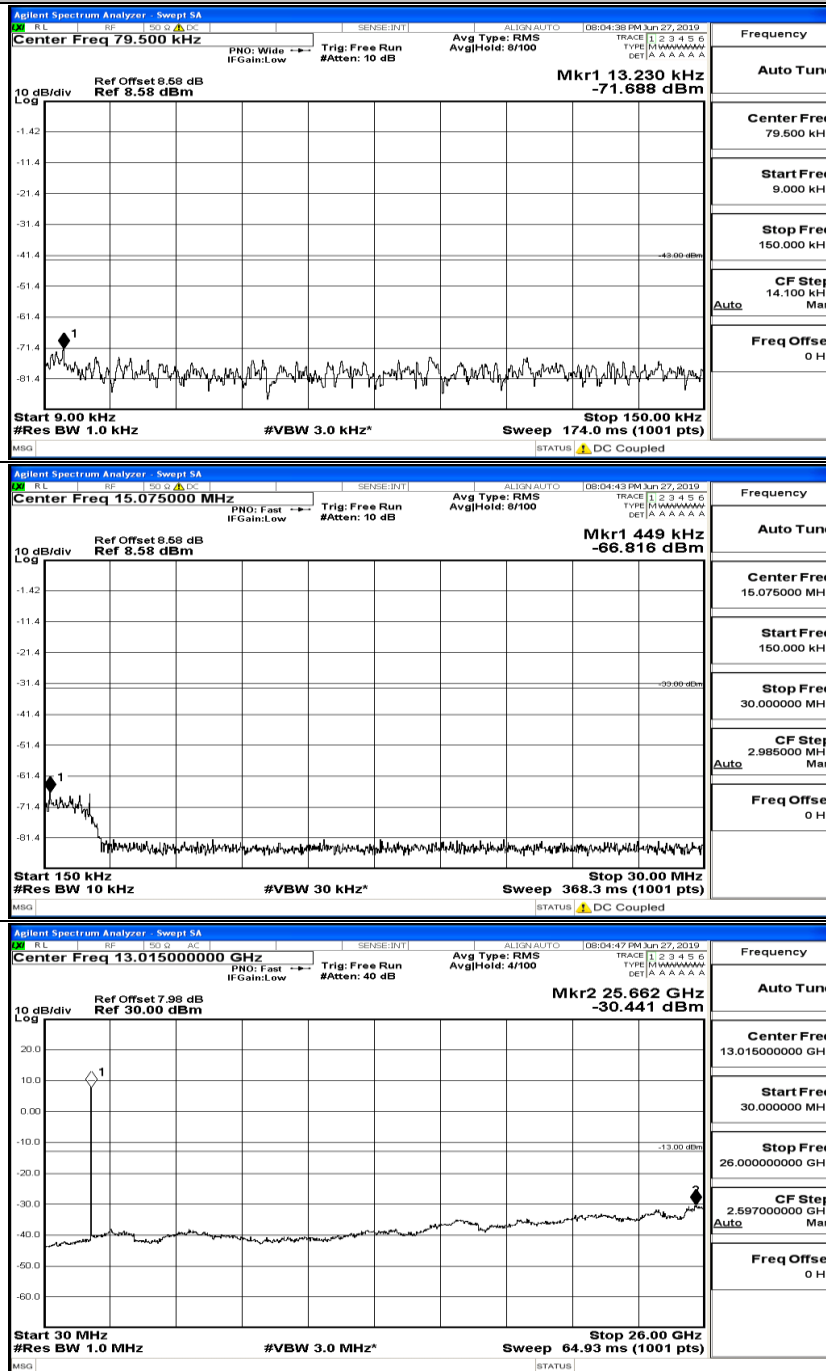
0 Hz



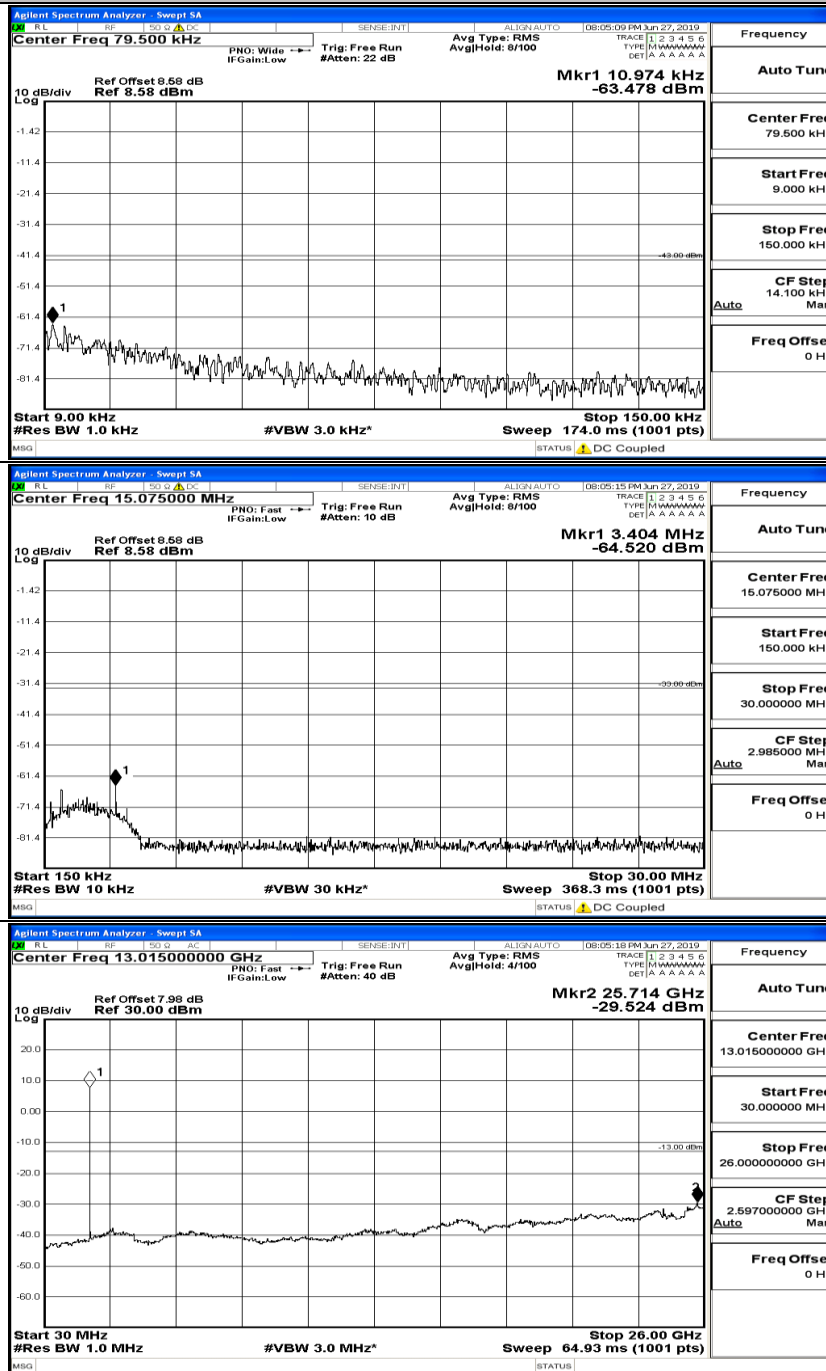
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



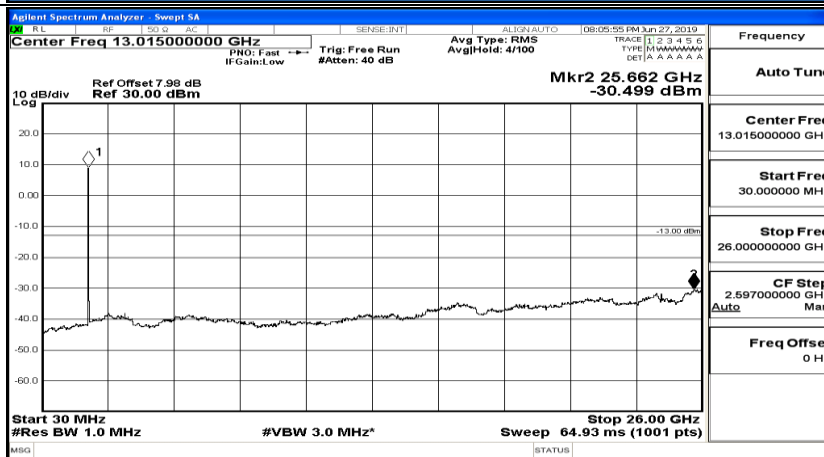
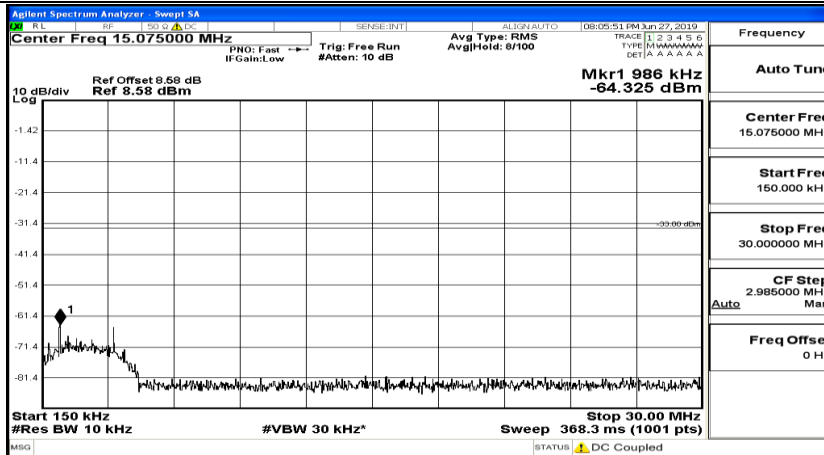
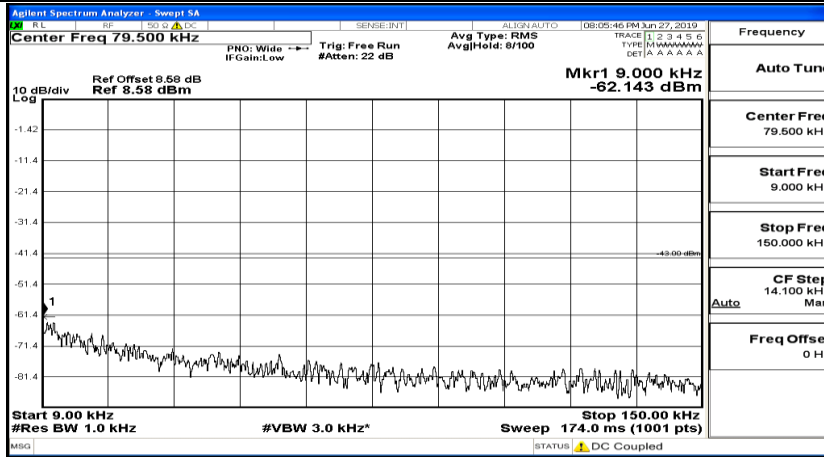
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



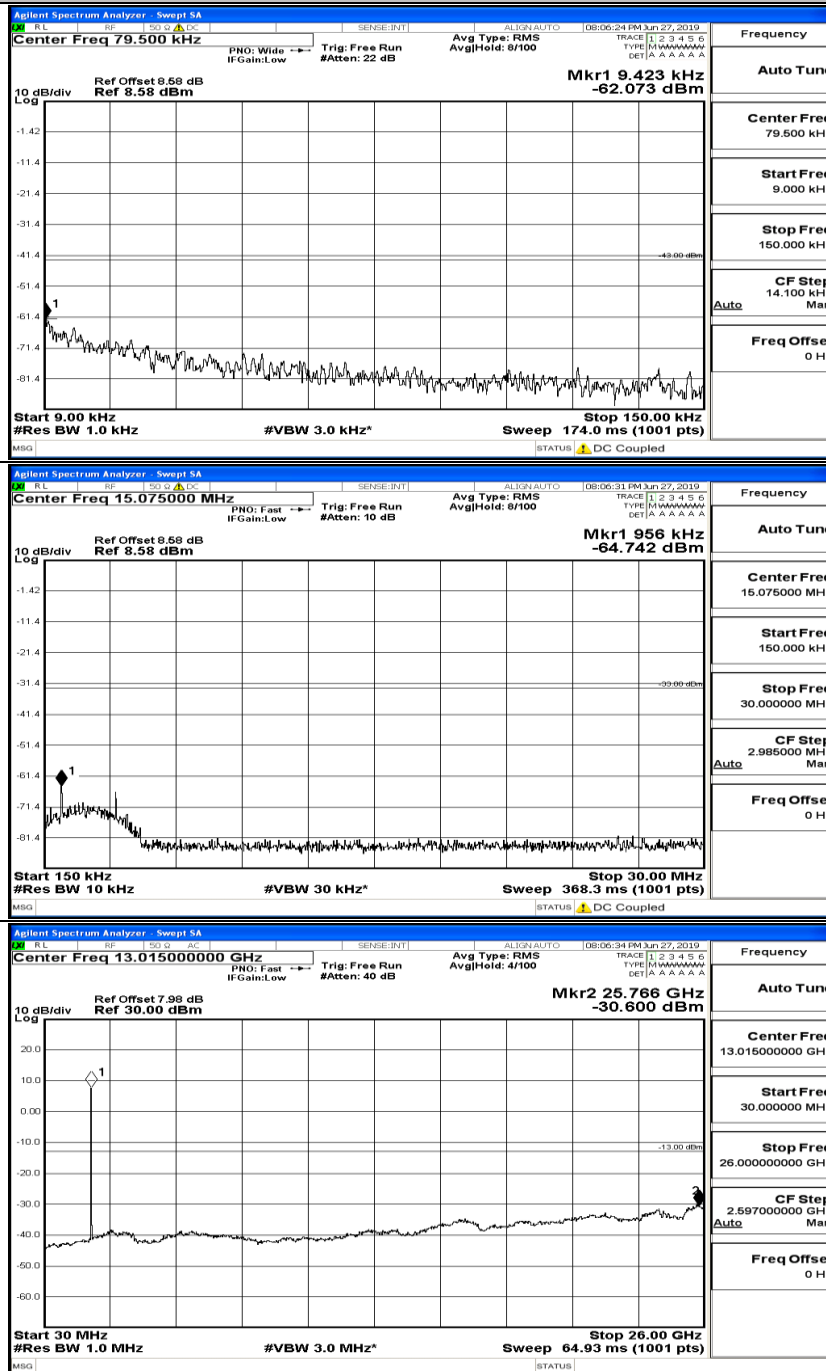
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



CSE Test Graph(s) (CSE Channel Bandwidth: 5 MHz)_LCH_16QAM

Agilent Spectrum Analyzer - Sweep SA

Center Freq 79.500 kHz
PNO: Wide → Trig: Free Run #Atten: 10 dB
Avg Type: RMS Avg/Hold: 9/100
Mkr1 9.846 kHz -72.777 dBm
Ref Offset 8.58 dB Ref 8.58 dBm
Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz* Stop 150.00 kHz Sweep 174.0 ms (1001 pts)
MSG [STATUS] ⚠ 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 Man

Freq Offset 0 Hz

Agilent Spectrum Analyzer - Sweep SA

Center Freq 15.075000 MHz
PNO: Fast → Trig: Free Run #Atten: 10 dB
Avg Type: RMS Avg/Hold: 8/100
Mkr1 986 kHz -66.035 dBm
Ref Offset 8.58 dB Ref 8.58 dBm
Start 150 kHz #Res BW 10 kHz #VBW 30 kHz* Stop 30.00 MHz Sweep 368.3 ms (1001 pts)
MSG [STATUS] ⚠ 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 Man

Freq Offset 0 Hz

Agilent Spectrum Analyzer - Sweep SA

Center Freq 13.015000000 GHz
PNO: Fast → Trig: Free Run #Atten: 40 dB
Avg Type: RMS Avg/Hold: 4/100
Mkr2 25.740 GHz -30.637 dBm
Ref Offset 7.98 dB Ref 30.00 dBm
Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 26.00 GHz Sweep 64.93 ms (1001 pts)
MSG [STATUS]

Frequency

Auto Tune

Center Freq 13.015000000 GHz

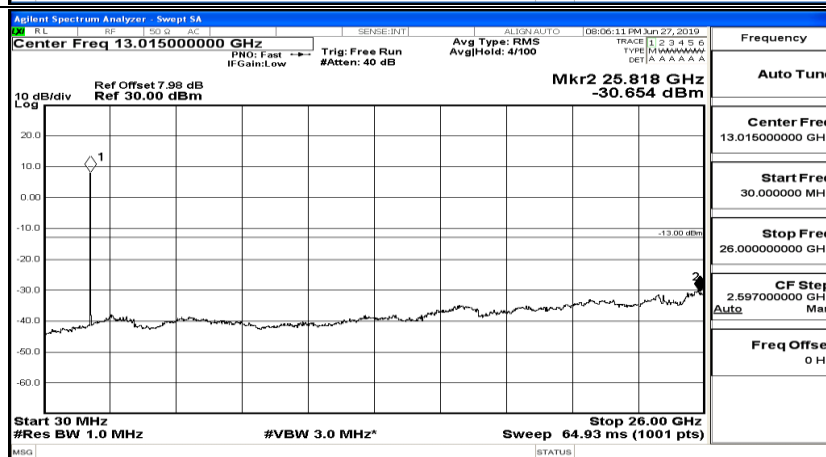
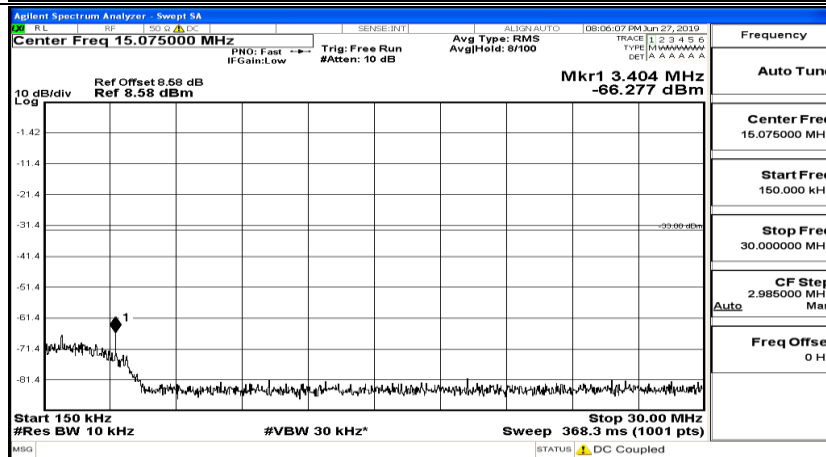
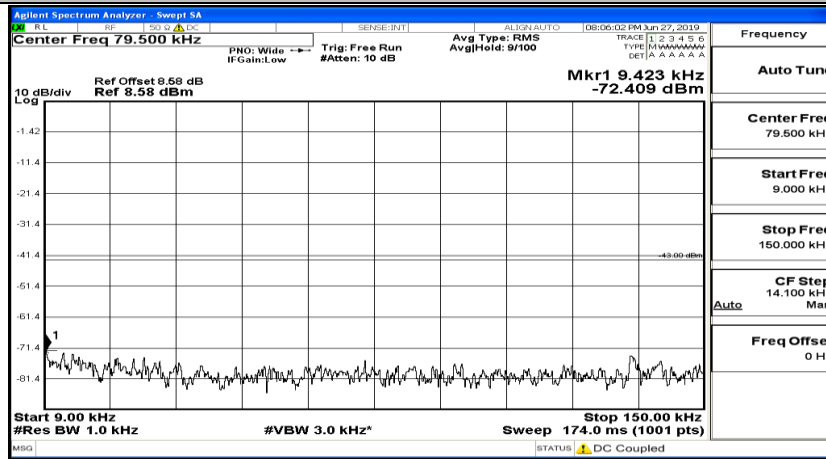
Start Freq 30.000000 MHz

Stop Freq 26.000000000 GHz

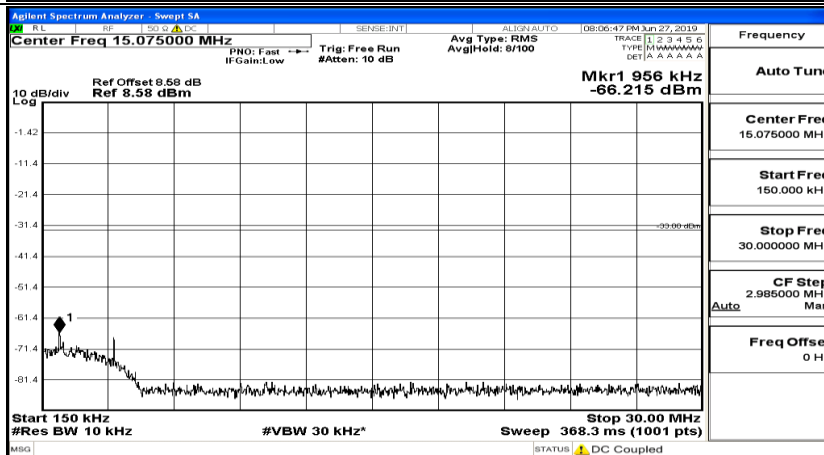
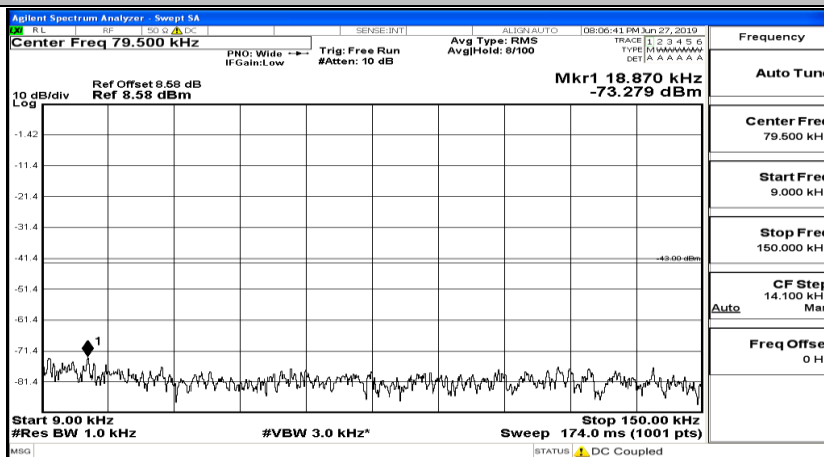
CF Step 2.597000000 GHz Man

Freq Offset 0 Hz

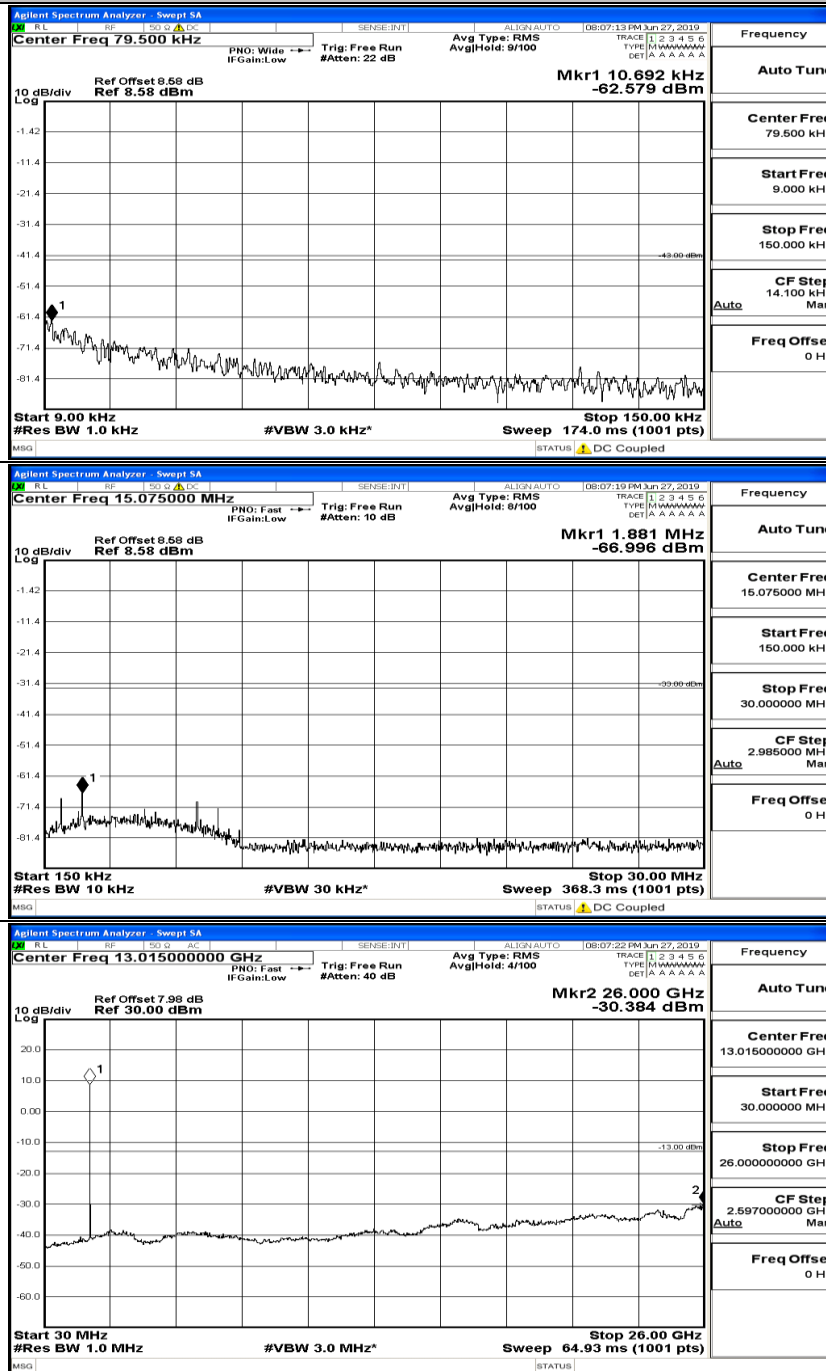
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



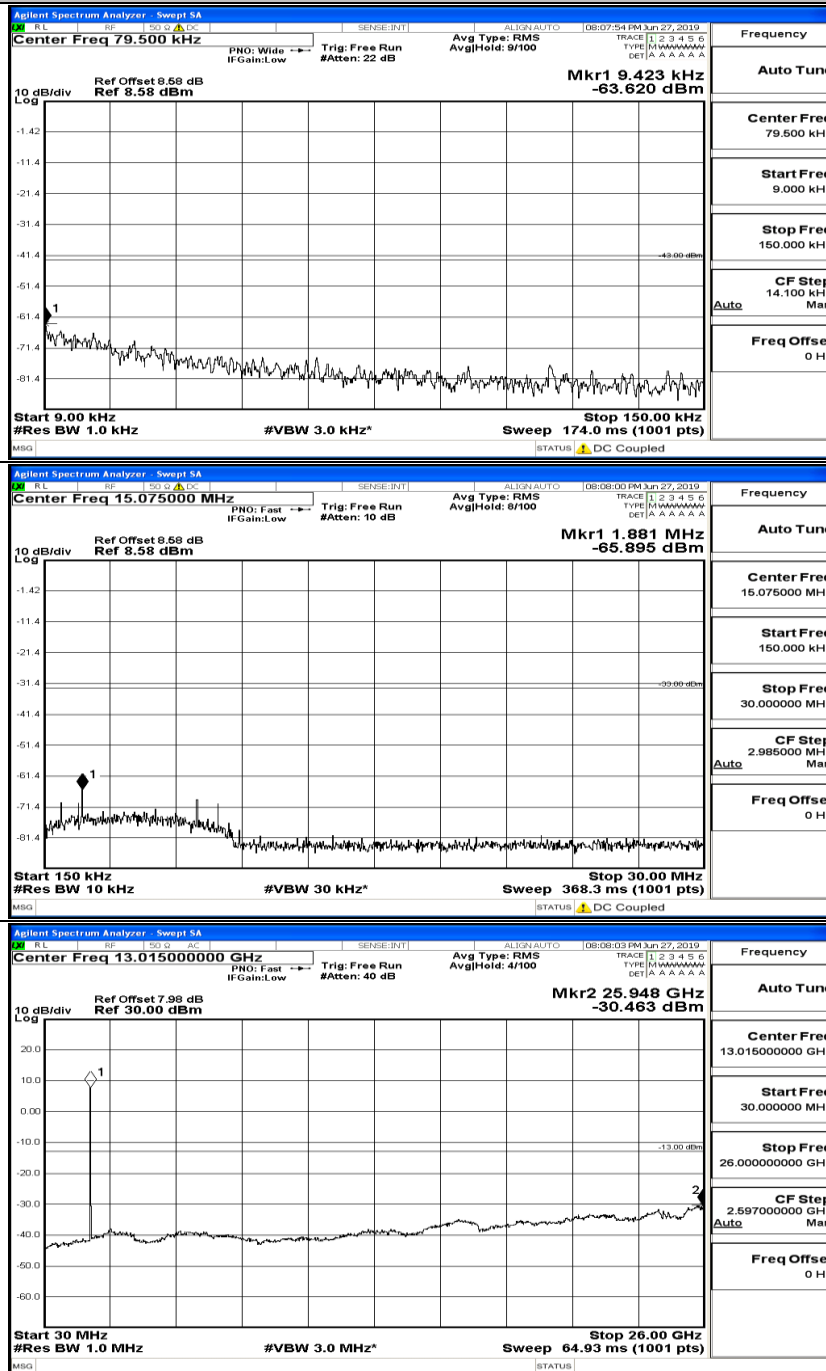
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



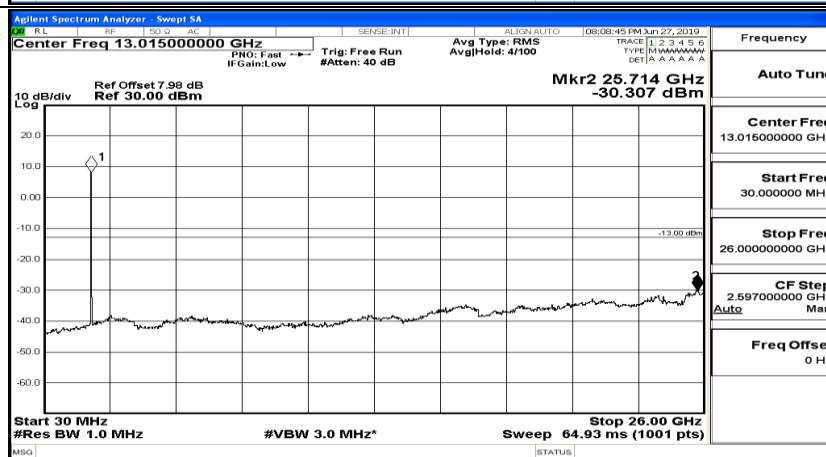
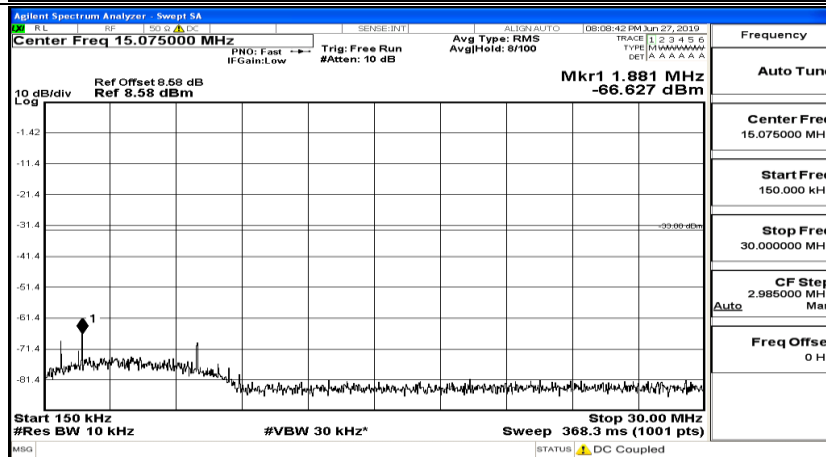
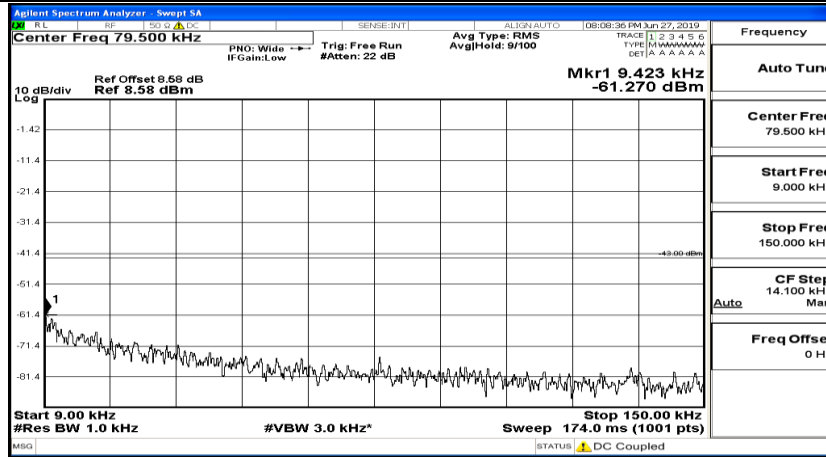
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



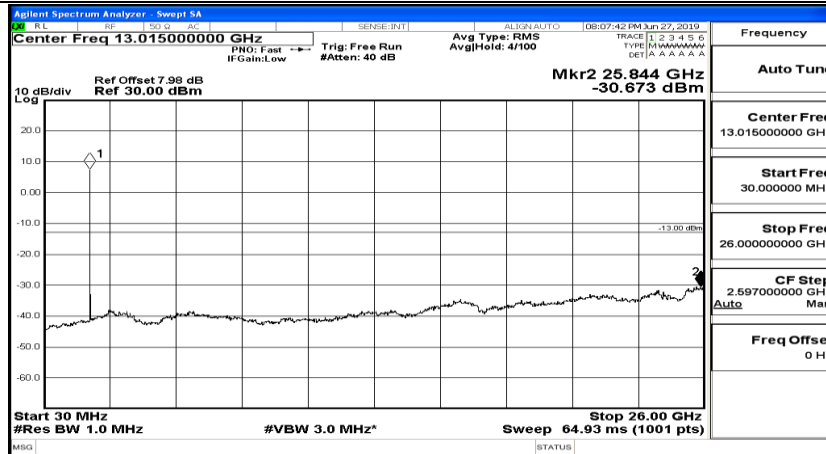
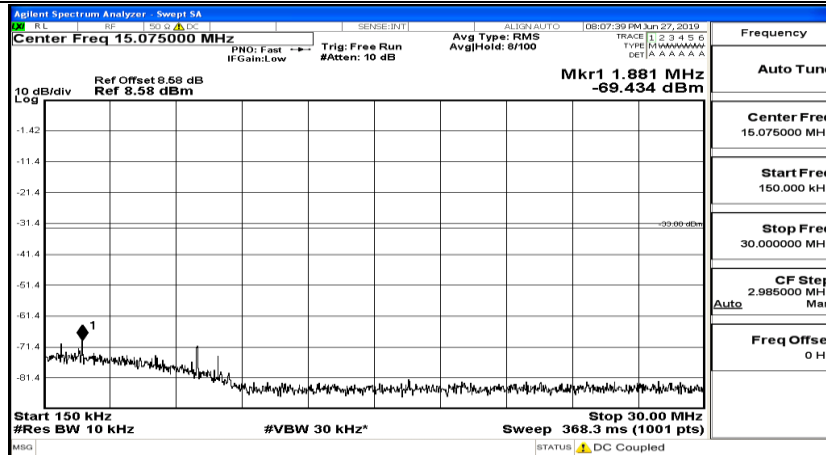
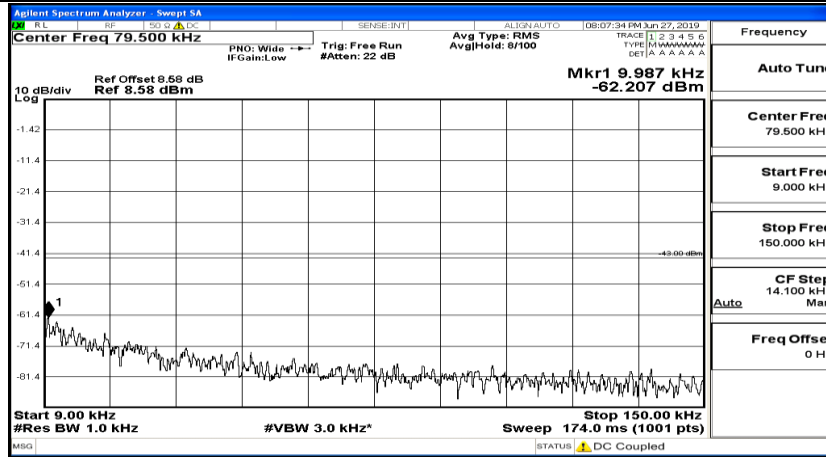
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



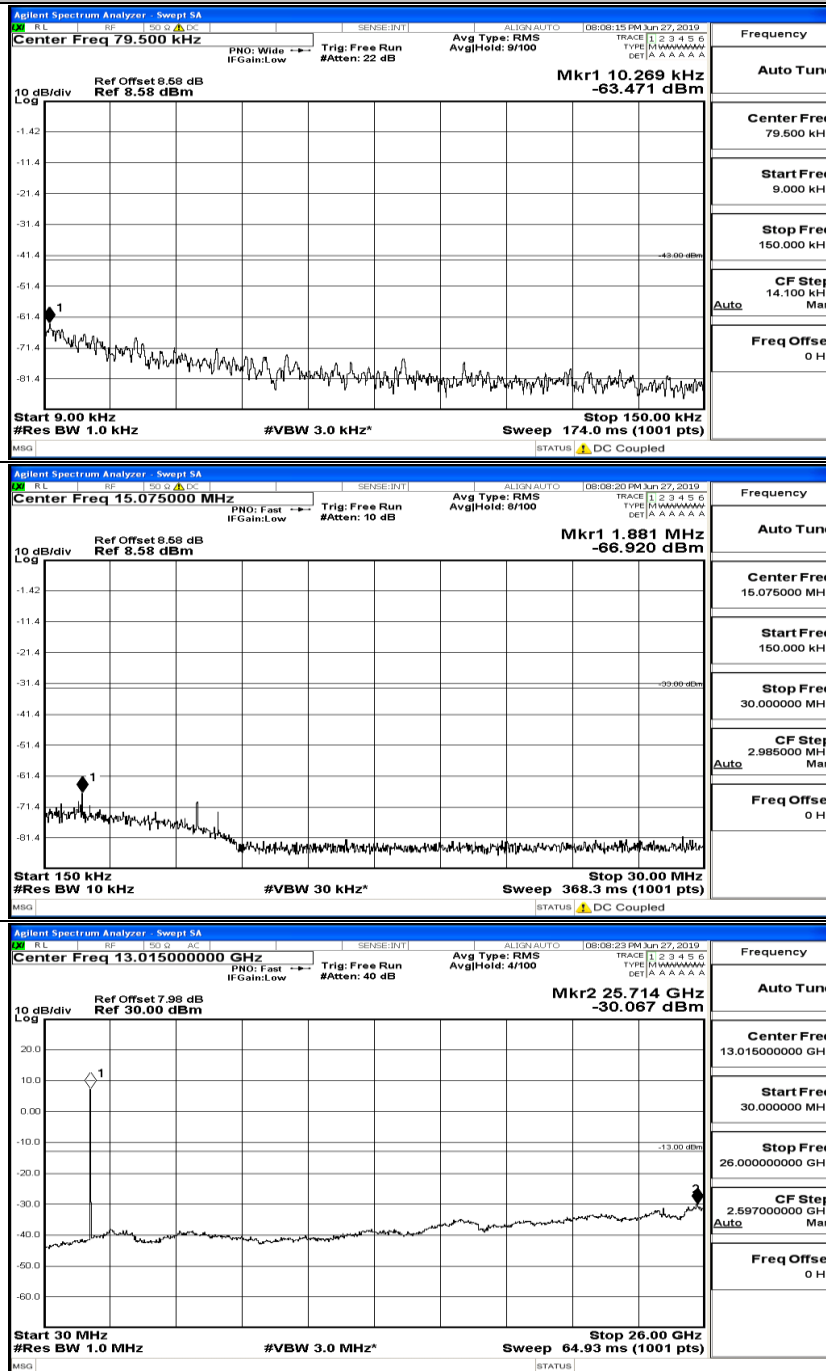
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



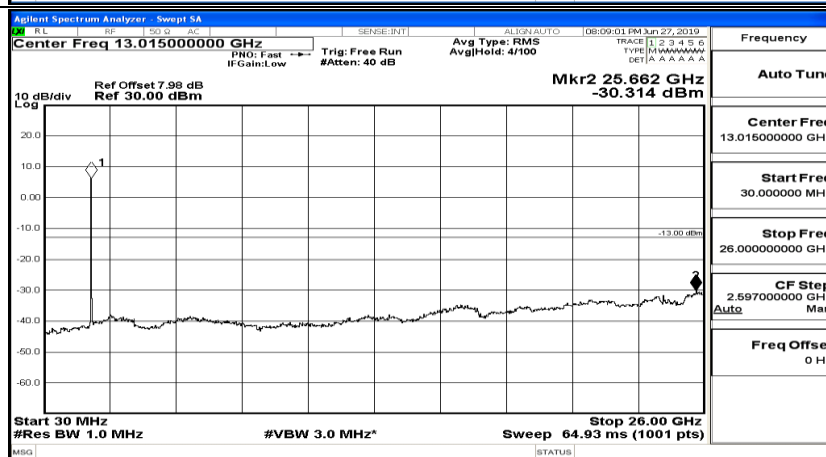
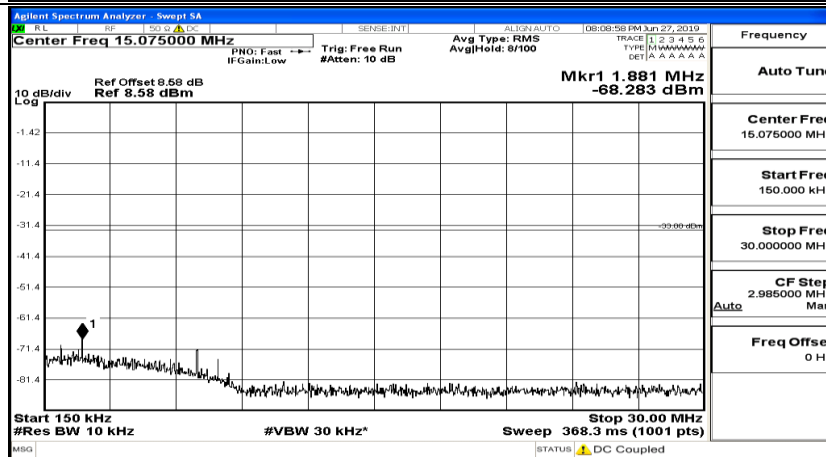
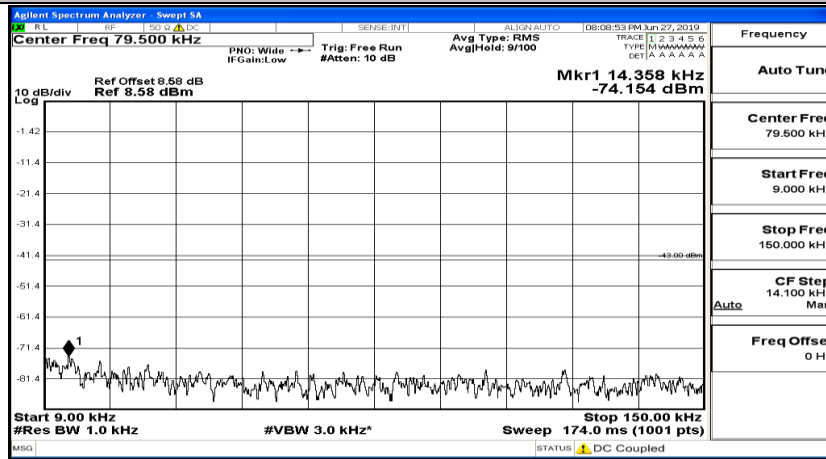
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



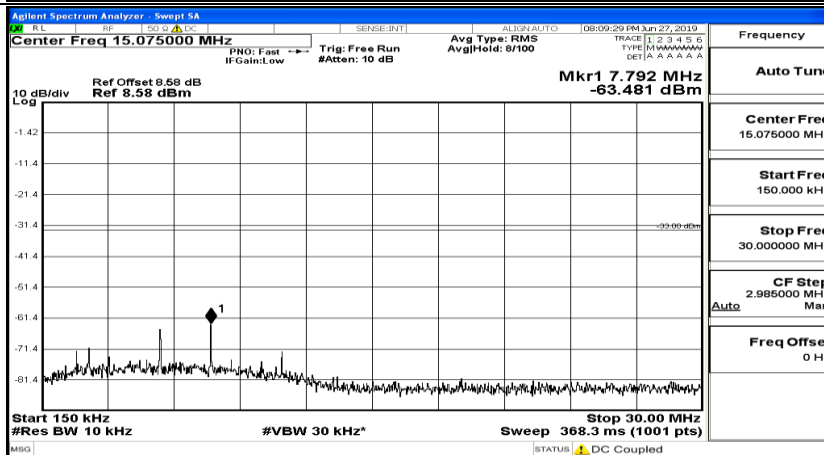
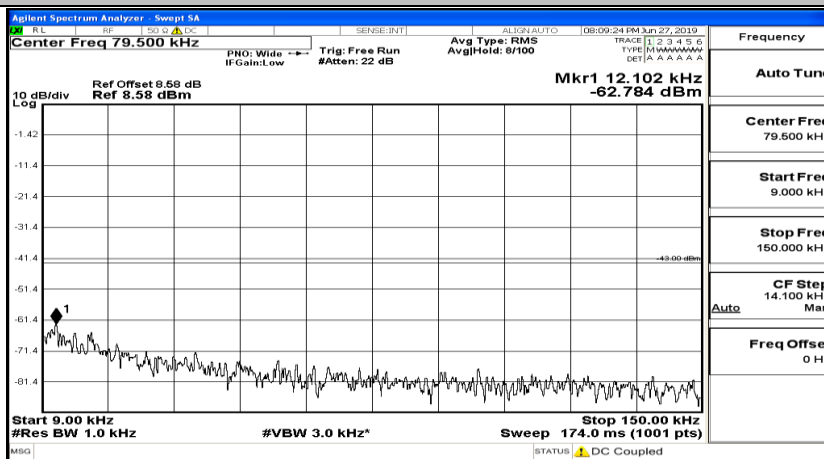
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



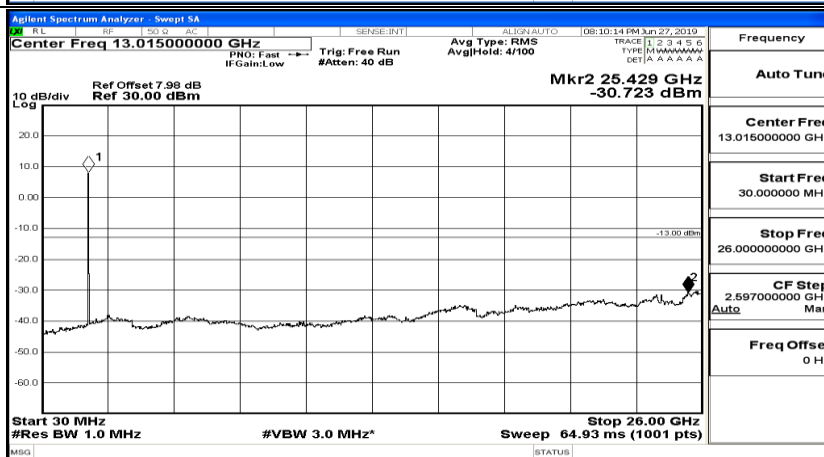
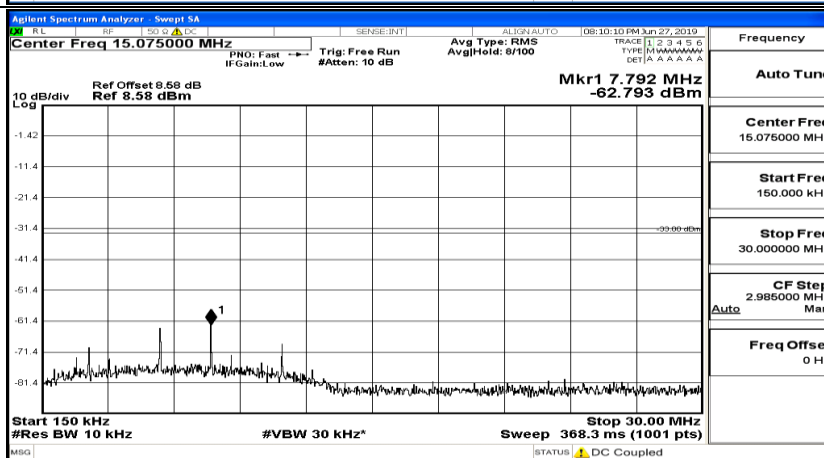
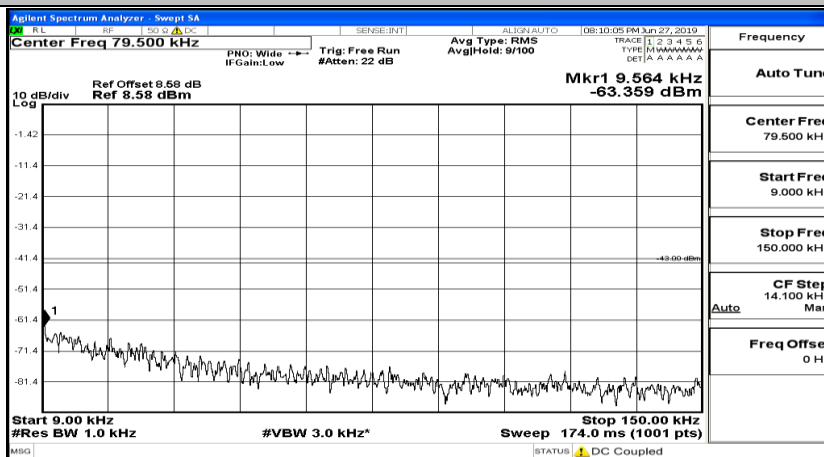
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



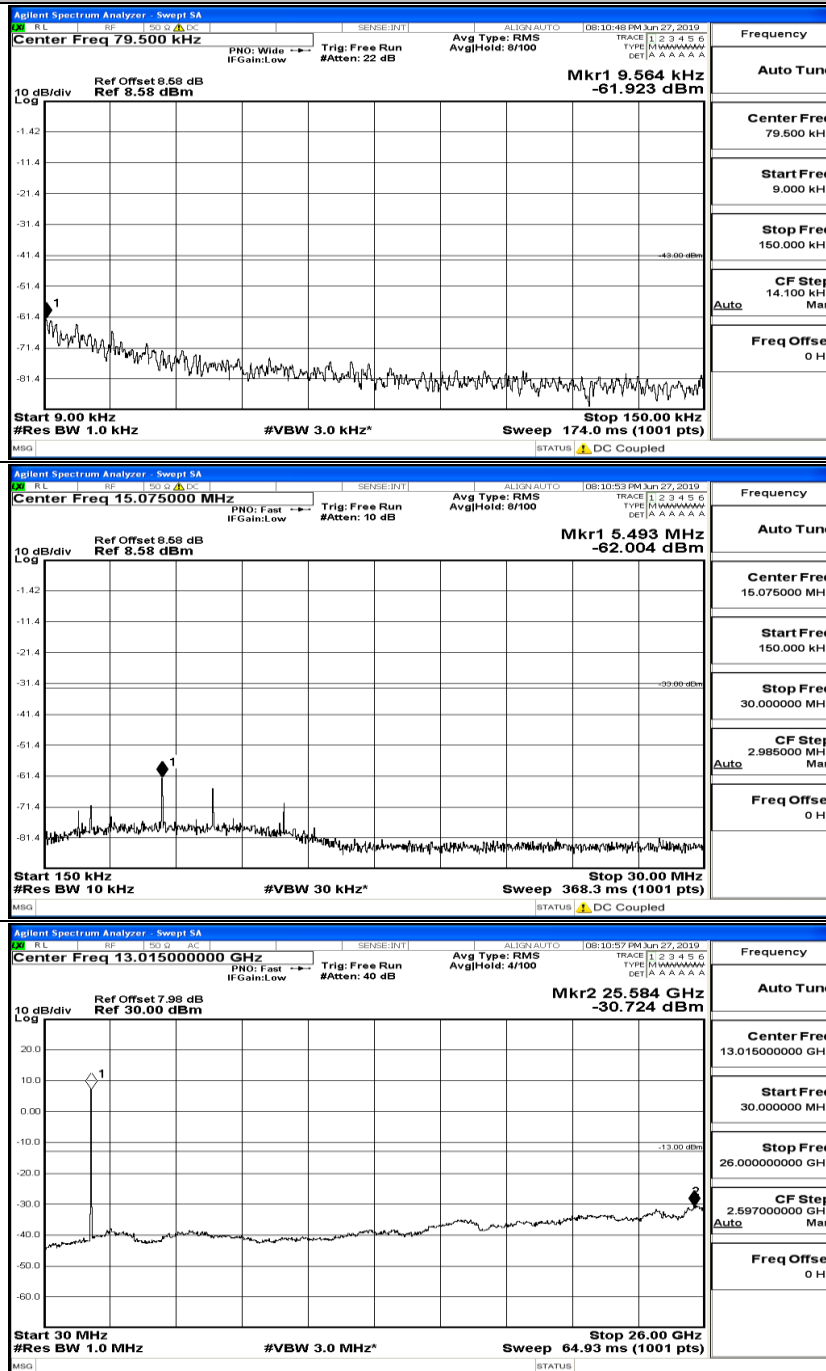
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



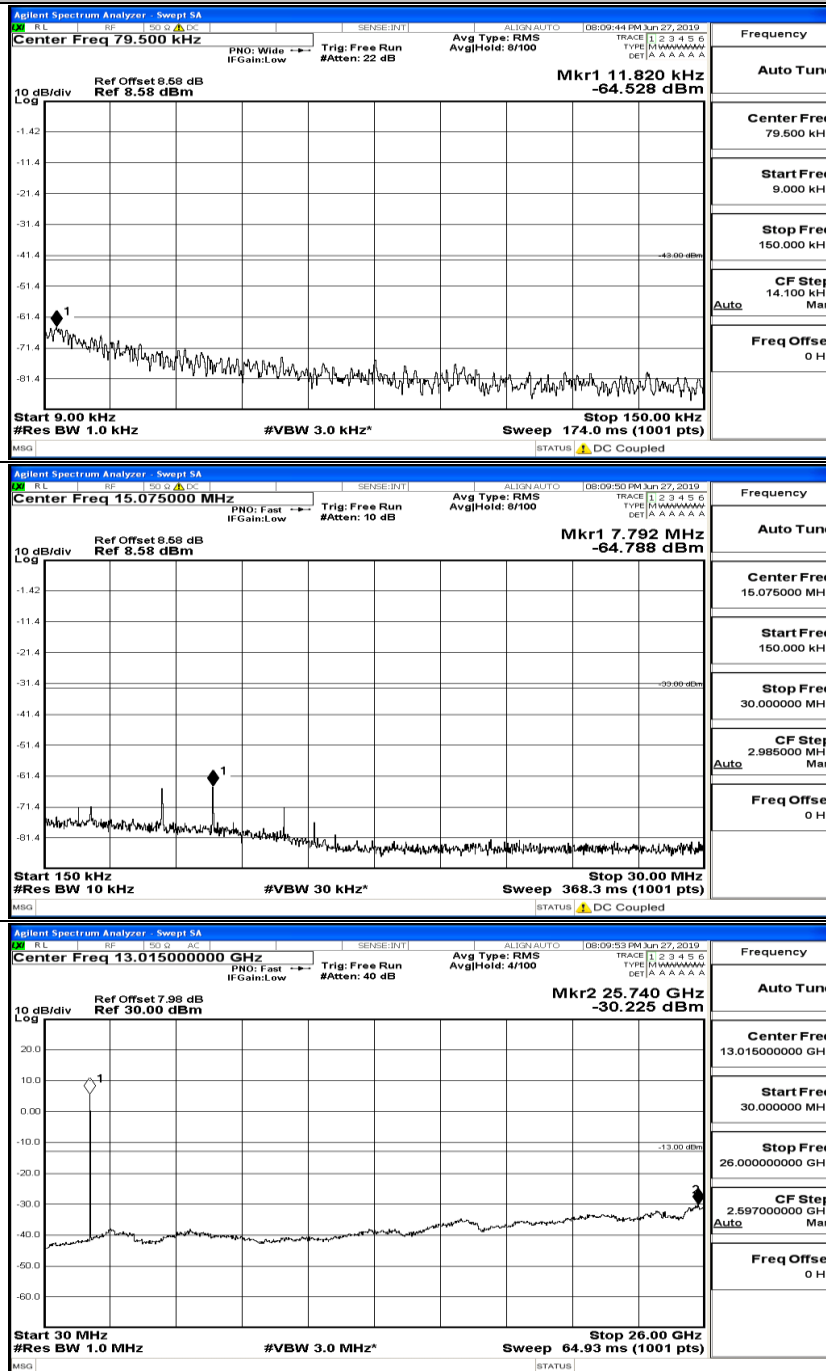
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



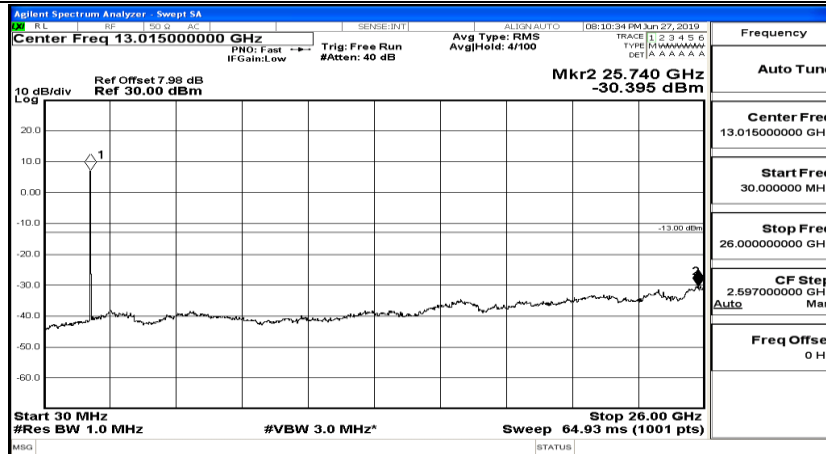
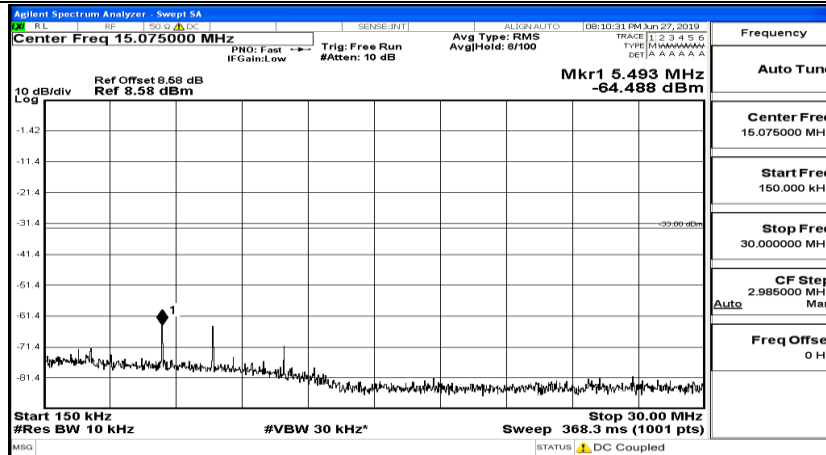
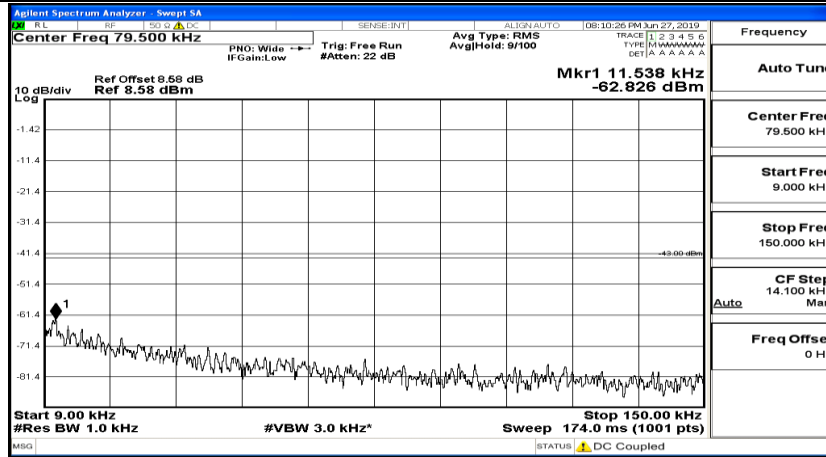
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



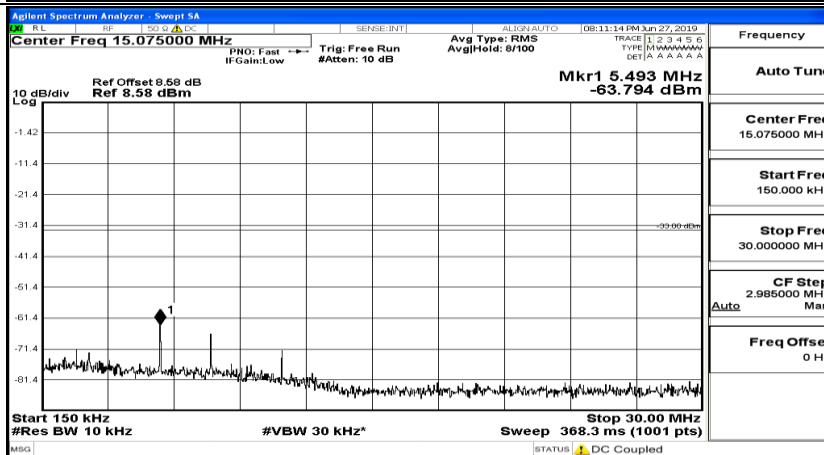
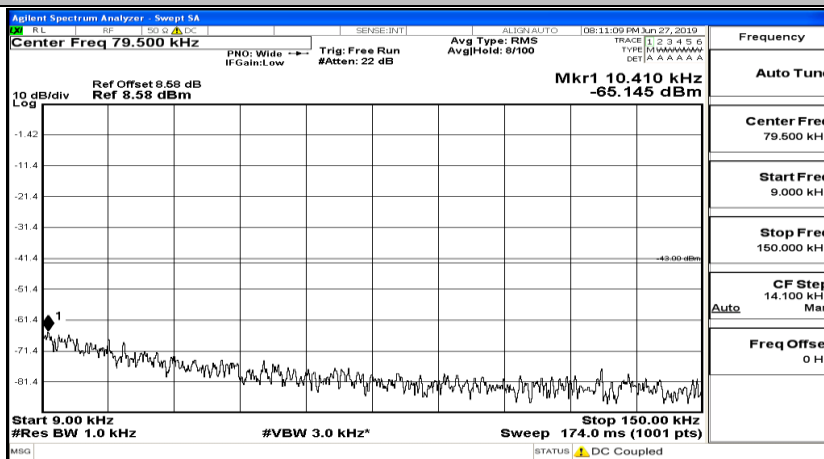
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



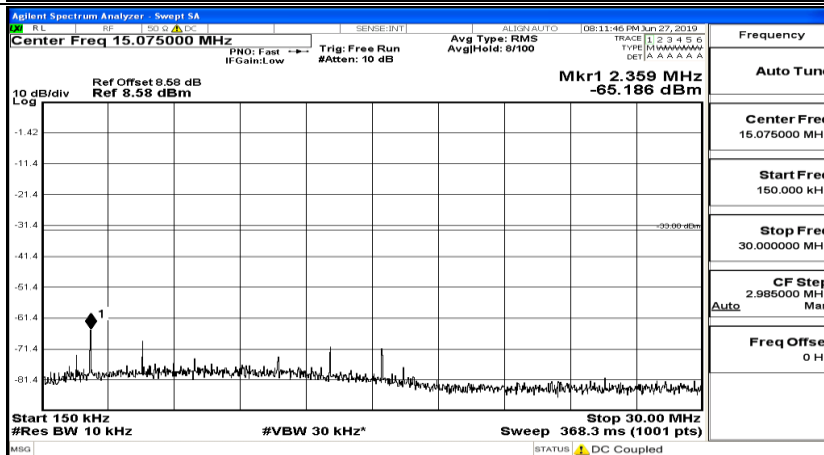
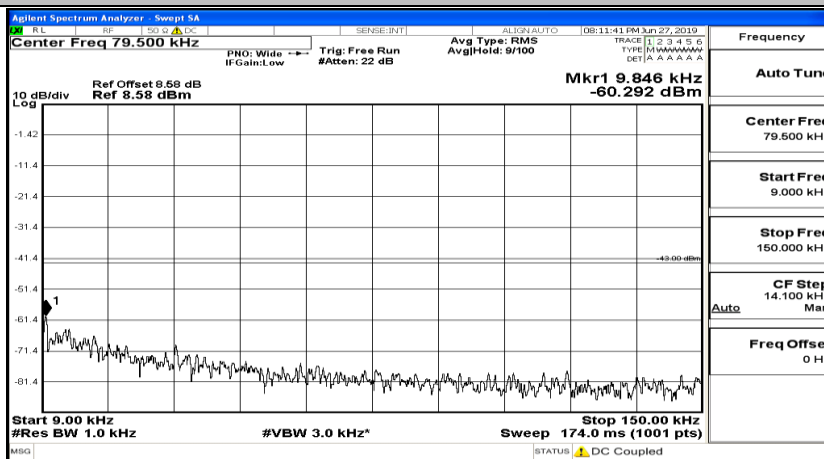
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



CSE Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



CSE Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



Agilent Spectrum Analyzer - Screenshot

RL 150.0 kHz DC SENSE: INT ALIGN: AUTO 08:22:22 PM Jun 27, 2019

Center Freq 79.500 kHz Avg Type: RMS Avg Hold: 8/100

Trace 1 2 3 4 5 6 Type: DAAAAAA DET: AAAAAA

PNO: Wide IF Gain: Low Trig: Free Run #Atten: 22 dB

Ref Offset: 9.58 dB Ref: 8.58 dBm

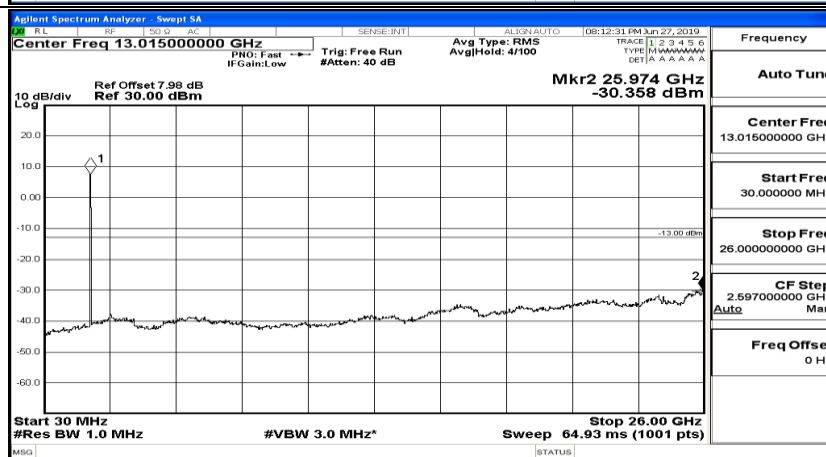
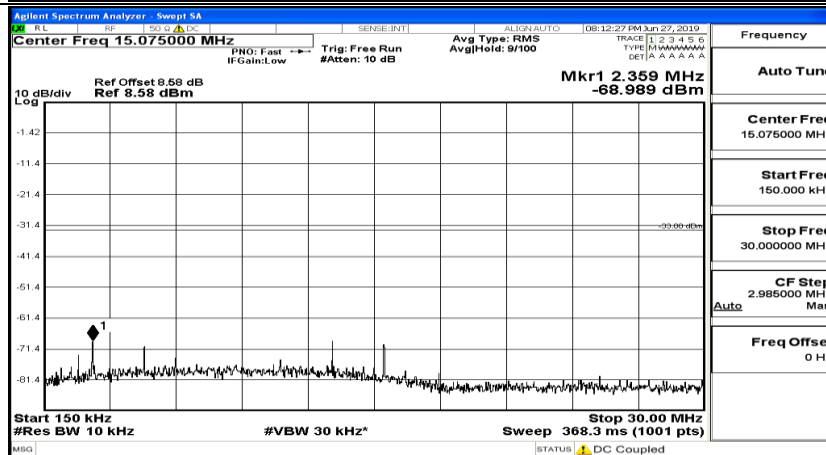
Mkr1 9.564 kHz -61.316 dBm

10 dB/div Log

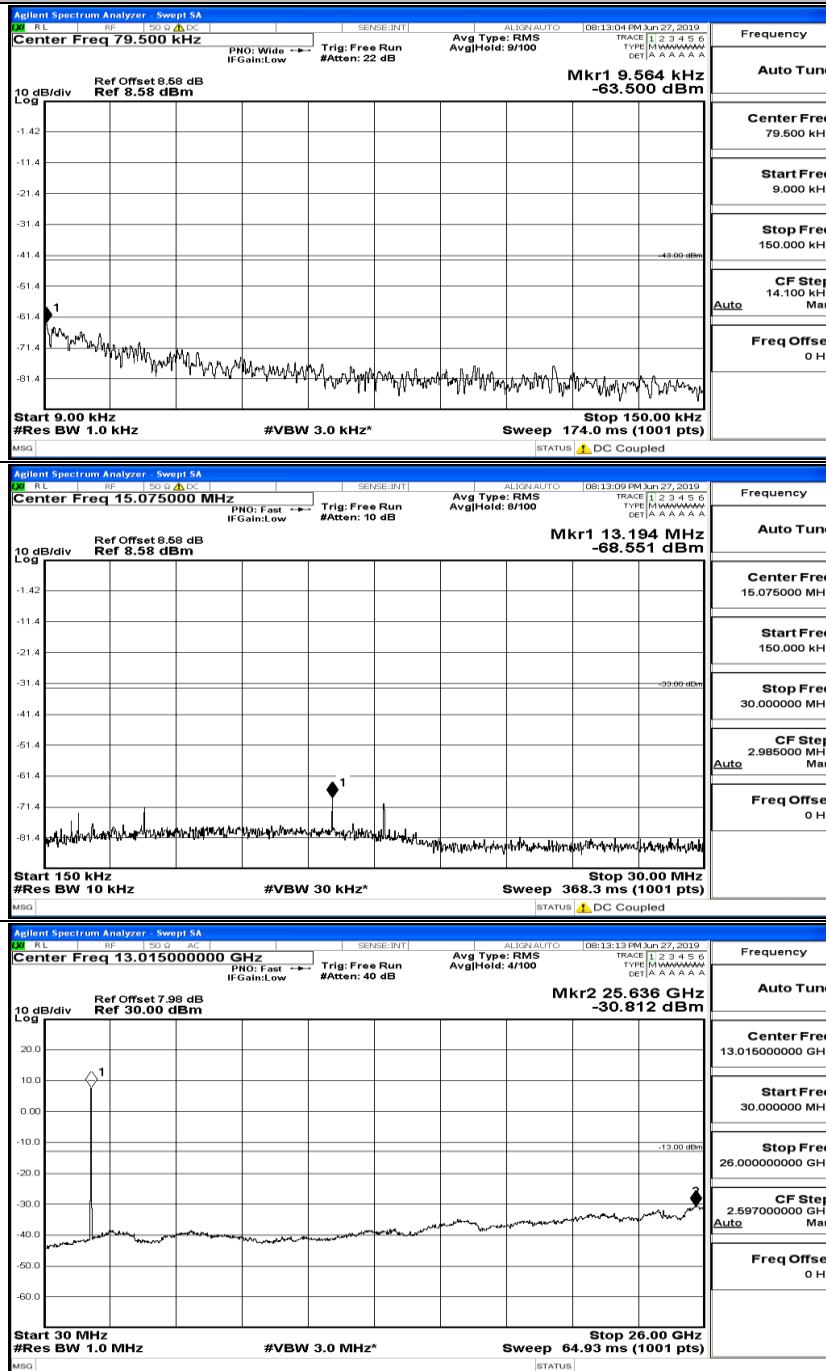
Start 9.00 kHz Stop 150.00 kHz

#Res BW 1.0 kHz #VBW 3.0 kHz* Sweep 174.0 ms (1001 pts)

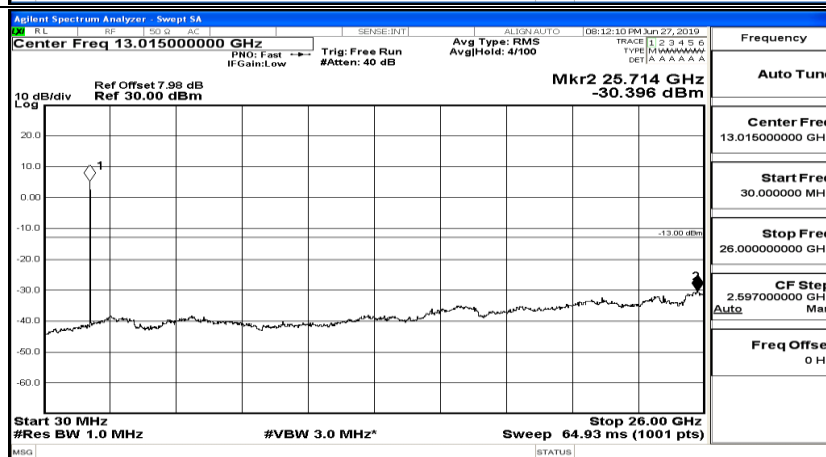
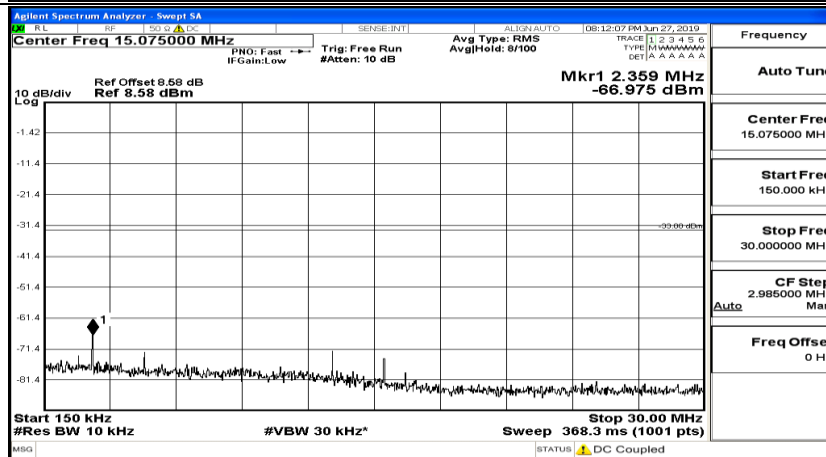
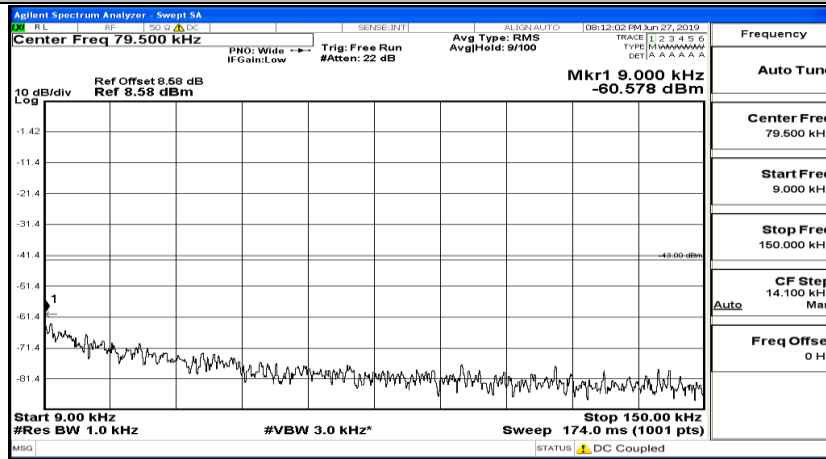
MSG STATUS: DC Coupled



CSE Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



CSE Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



Agilent Spectrum Analyzer - Swept SA

RL RP 150 G Δ DC SENSE:INT ALLOC: AUTO DB: 12:42 PM Jun 27, 2019

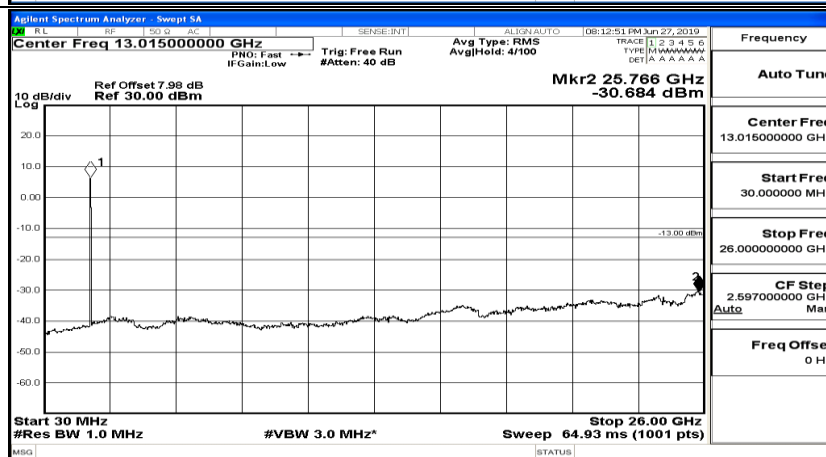
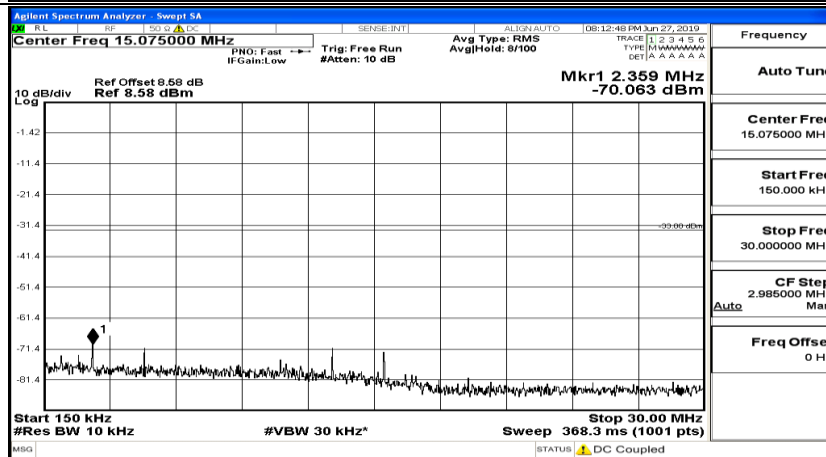
Center Freq 79.500 kHz PNO: Wide Trg: Free Run Avg Type: RMS Trace [1 2 3 4 5 6 Type: [A W A W A W A W Det: [A A A A A A A

IFGain: Low #Atten: 22 dB AvgHeld: 8/100

10 dB/div Ref Offset 9.58 dB Mkr1 10.692 kHz Log Ref 8.58 dBm -62.563 dBm

Start 9.00 kHz Stop 150.0 kHz #VBW 3.0 kHz* Sweep 174.0 ms (1001 pts) #Res BW 1.0 kHz

MSG STATUS Δ DC Coupled



CSE Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

