

Appendix E: Test Data for E-UTRA Band 4

Product Name: 4G dash Camera

Trade Mark: N/A

Test Model: ES-D4

Environmental Conditions

Temperature:	23.5
Relative Humidity:	53.1
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Jayden Zhuo

E.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	20.68	20.93	PASS
		1	3	20.75	21.10	PASS
		1	5	20.68	20.96	PASS
		3	0	20.69	20.88	PASS
		3	2	20.68	20.83	PASS
		3	3	20.71	20.86	PASS
		6	0	20.68	20.67	PASS
	MCH	1	0	20.42	20.82	PASS
		1	3	20.50	20.94	PASS
		1	5	20.41	20.81	PASS
		3	0	20.43	20.45	PASS
		3	2	20.38	20.43	PASS
		3	3	20.43	20.48	PASS
		6	0	20.43	20.41	PASS
	HCH	1	0	20.02	20.32	PASS
		1	3	20.14	20.47	PASS
		1	5	20.05	20.34	PASS
		3	0	20.04	20.10	PASS
		3	2	20.01	20.08	PASS
		3	3	20.03	20.12	PASS
		6	0	20.01	20.16	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	20.64	20.94	PASS
		1	7	20.75	21.07	PASS
		1	14	20.68	20.99	PASS
		8	0	20.68	20.76	PASS
		8	4	20.69	20.78	PASS
		8	7	20.69	20.76	PASS
		15	0	20.69	20.69	PASS
	MCH	1	0	20.33	20.63	PASS
		1	7	20.47	20.77	PASS
		1	14	20.37	20.67	PASS
		8	0	20.40	20.47	PASS
		8	4	20.41	20.49	PASS
		8	7	20.43	20.49	PASS
		15	0	20.40	20.39	PASS
	HCH	1	0	19.97	20.38	PASS
		1	7	20.09	20.50	PASS
		1	14	19.98	20.41	PASS
		8	0	19.97	19.99	PASS
		8	4	19.97	19.96	PASS
		8	7	19.98	19.99	PASS
		15	0	19.98	20.01	PASS

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	21.38	21.84	PASS
		1	12	21.55	21.95	PASS
		1	24	21.51	21.92	PASS
		12	0	21.45	21.62	PASS
		12	6	21.47	21.65	PASS
		12	13	21.51	21.69	PASS
		25	0	21.45	21.51	PASS
	MCH	1	0	21.09	21.52	PASS
		1	12	21.23	21.67	PASS
		1	24	21.19	21.60	PASS
		12	0	21.16	21.31	PASS
		12	6	21.17	21.33	PASS
		12	13	21.17	21.34	PASS
		25	0	21.12	21.17	PASS
	HCH	1	0	20.77	20.92	PASS
		1	12	20.81	20.93	PASS
		1	24	20.77	20.87	PASS
		12	0	20.81	20.87	PASS
		12	6	20.78	20.83	PASS
		12	13	20.78	20.84	PASS
		25	0	20.76	20.82	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)

Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	21.48	21.80	PASS
		1	24	21.57	21.88	PASS
		1	49	21.57	21.91	PASS
		25	0	21.52	21.55	PASS
		25	12	21.53	21.56	PASS
		25	25	21.54	21.57	PASS
		50	0	21.53	21.55	PASS
	MCH	1	0	21.17	21.47	PASS
		1	24	21.20	21.50	PASS
		1	49	21.27	21.59	PASS
		25	0	21.13	21.17	PASS
		25	12	21.17	21.20	PASS
		25	25	21.22	21.26	PASS
		50	0	21.17	21.20	PASS
	HCH	1	0	21.07	21.55	PASS
		1	24	20.83	21.29	PASS
		1	49	20.79	21.24	PASS
		25	0	20.96	21.04	PASS
		25	12	20.82	20.88	PASS
		25	25	20.79	20.85	PASS
		50	0	20.86	20.94	PASS

Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	21.50	21.81	PASS
		1	37	21.69	21.99	PASS
		1	74	21.39	21.71	PASS
		37	0	21.51	21.52	PASS
		37	18	21.55	21.58	PASS
		37	38	21.51	21.52	PASS
		75	0	21.52	21.54	PASS
	MCH	1	0	21.24	21.53	PASS
		1	37	21.31	21.60	PASS
		1	74	21.34	21.67	PASS
		37	0	21.19	21.19	PASS
		37	18	21.20	21.21	PASS
		37	38	21.27	21.28	PASS
		75	0	21.22	21.23	PASS
	HCH	1	0	21.27	21.65	PASS
		1	37	21.05	21.42	PASS
		1	74	20.79	21.14	PASS
		37	0	21.16	21.21	PASS
		37	18	21.01	21.06	PASS
		37	38	20.82	20.87	PASS
		75	0	20.99	21.02	PASS

Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)

Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	21.65	21.83	PASS
		1	49	21.71	21.89	PASS
		1	99	21.44	21.60	PASS
		50	0	21.59	21.59	PASS
		50	25	21.53	21.54	PASS
		50	50	21.43	21.46	PASS
		100	0	21.51	21.52	PASS
	MCH	1	0	21.45	21.65	PASS
		1	49	21.36	21.53	PASS
		1	99	21.48	21.66	PASS
		50	0	21.23	21.24	PASS
		50	25	21.24	21.24	PASS
		50	50	21.30	21.32	PASS
		100	0	21.26	21.28	PASS
	HCH	1	0	21.37	21.77	PASS
		1	49	21.24	21.67	PASS
		1	99	20.91	21.32	PASS
		50	0	21.32	21.40	PASS
		50	25	21.16	21.24	PASS
		50	50	20.96	21.03	PASS
		100	0	21.13	21.16	PASS

E.2 Peak-to-Average Ratio

Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.91	<13	PASS
	MCH	5.75	<13	PASS
	HCH	5.84	<13	PASS
16QAM	LCH	6.66	<13	PASS
	MCH	6.45	<13	PASS
	HCH	6.42	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.88	<13	PASS
	MCH	5.85	<13	PASS
	HCH	5.99	<13	PASS
16QAM	LCH	6.69	<13	PASS
	MCH	6.53	<13	PASS
	HCH	6.56	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.98	<13	PASS
	MCH	5.88	<13	PASS
	HCH	6.03	<13	PASS
16QAM	LCH	6.59	<13	PASS
	MCH	6.48	<13	PASS
	HCH	6.6	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.83	<13	PASS
	MCH	5.85	<13	PASS
	HCH	5.93	<13	PASS
16QAM	LCH	6.46	<13	PASS
	MCH	6.41	<13	PASS
	HCH	6.53	<13	PASS

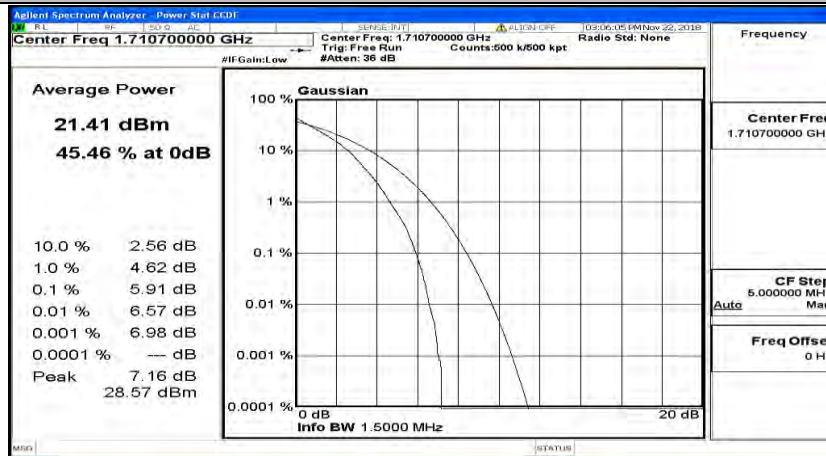
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)

Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.02	<13	PASS
	MCH	5.05	<13	PASS
	HCH	5.06	<13	PASS
16QAM	LCH	6.33	<13	PASS
	MCH	6.32	<13	PASS
	HCH	6.36	<13	PASS

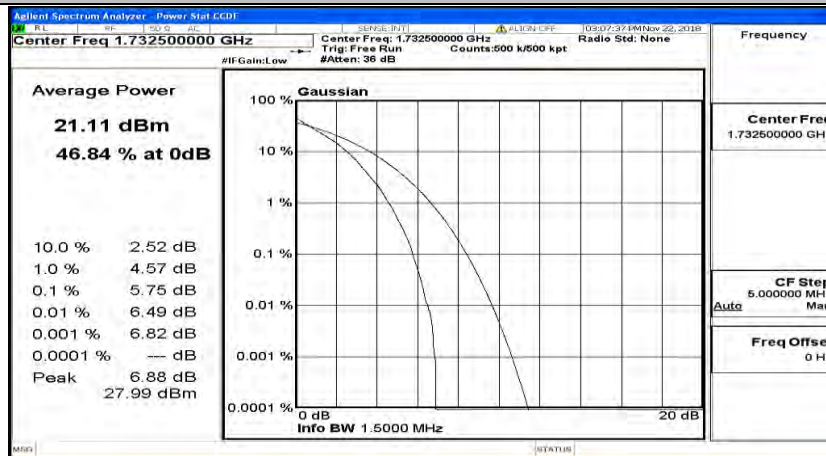
Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)

Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.7	<13	PASS
	MCH	5.72	<13	PASS
	HCH	5.74	<13	PASS
16QAM	LCH	6.77	<13	PASS
	MCH	6.76	<13	PASS
	HCH	6.7	<13	PASS

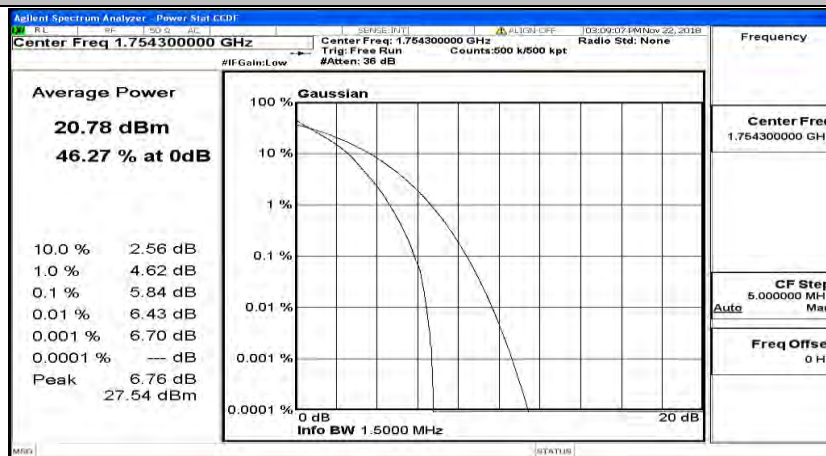
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



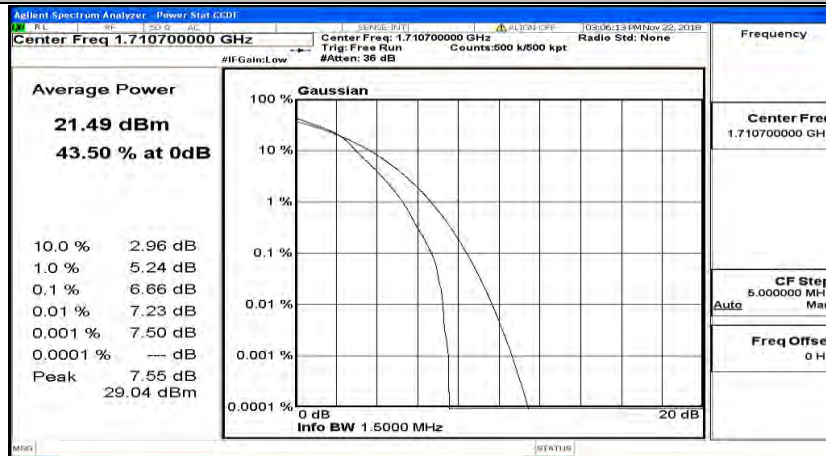
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



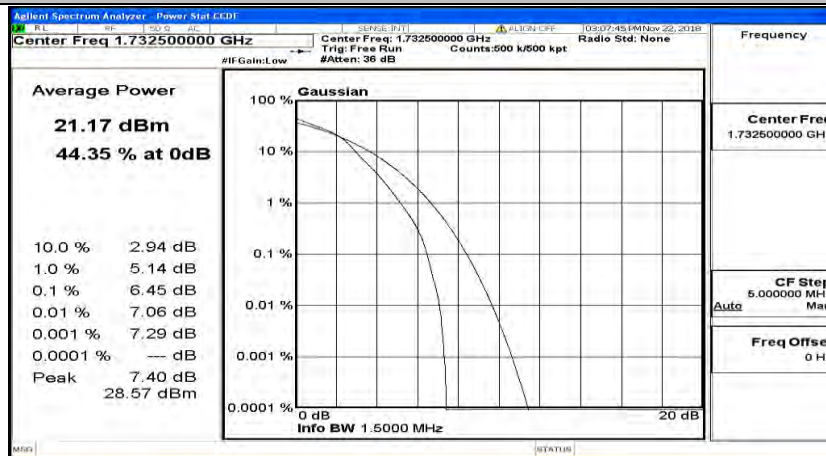
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



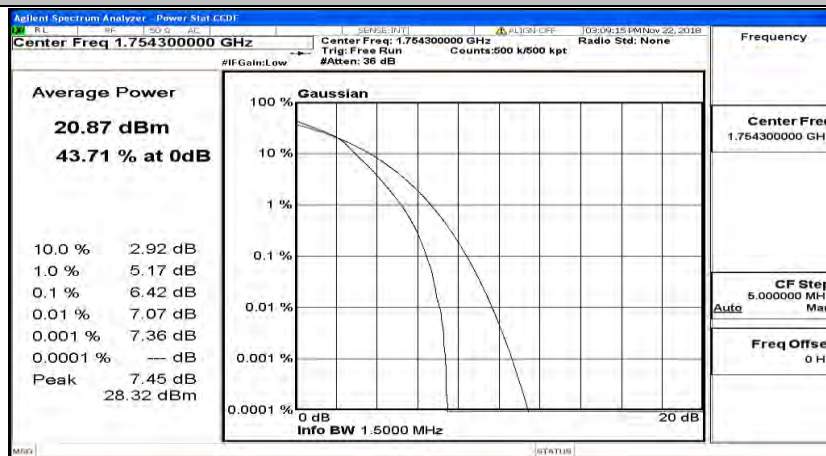
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



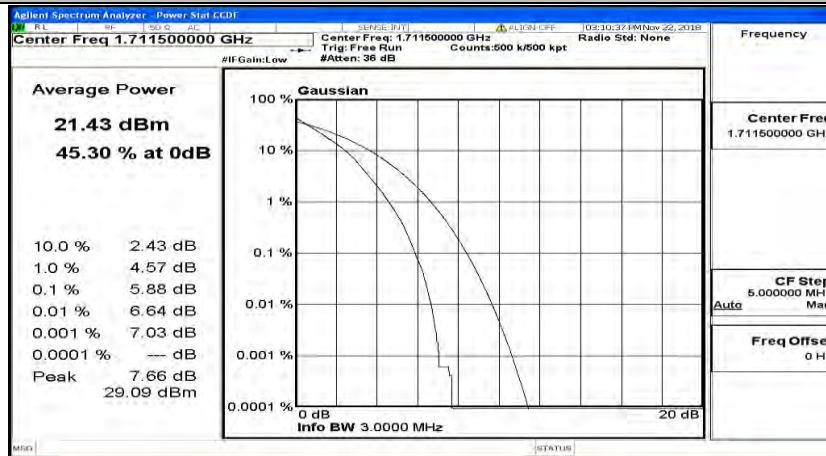
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



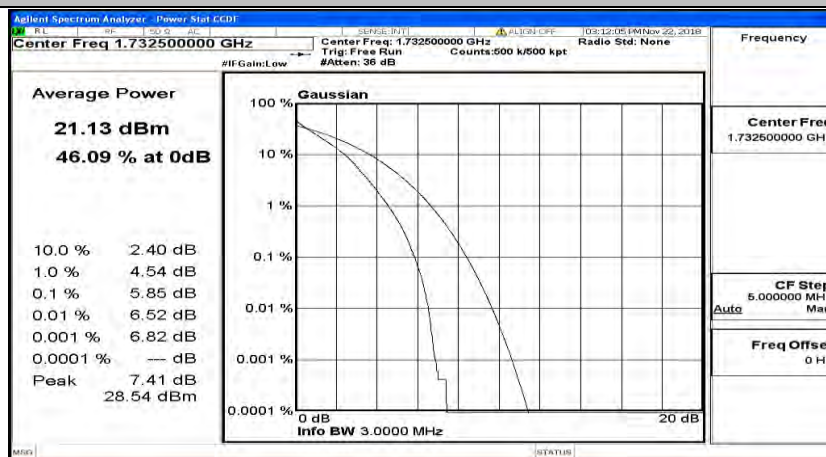
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



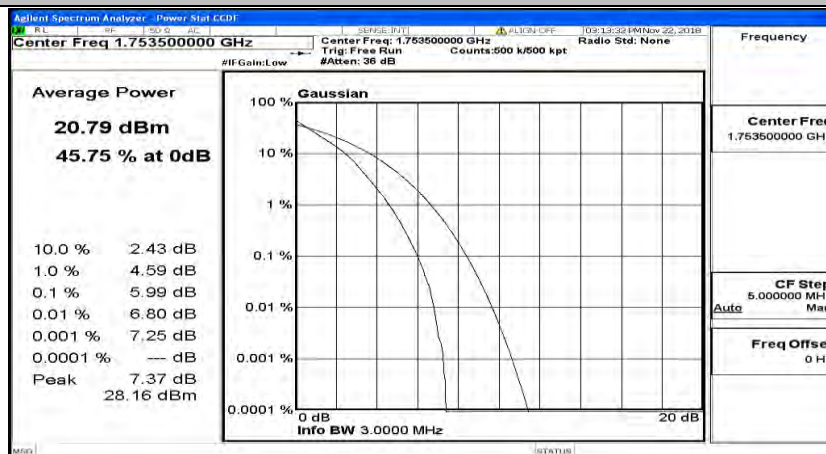
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



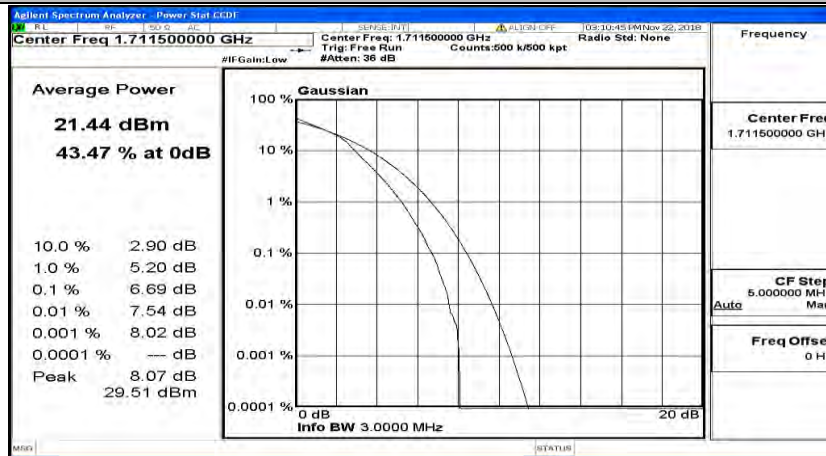
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



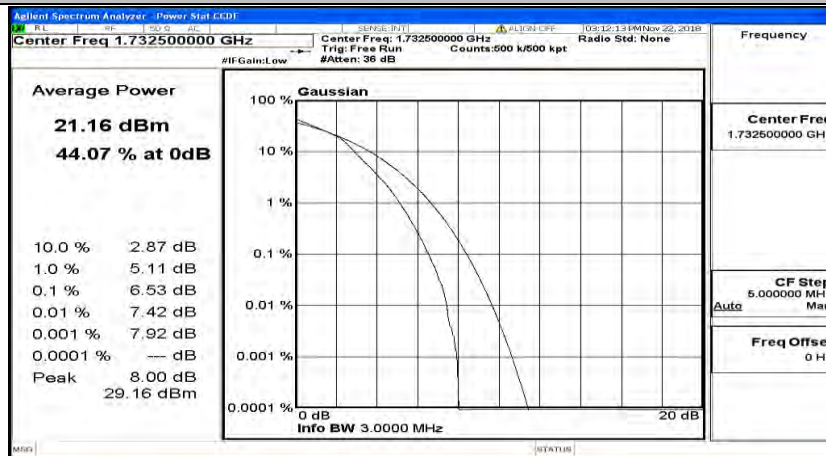
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



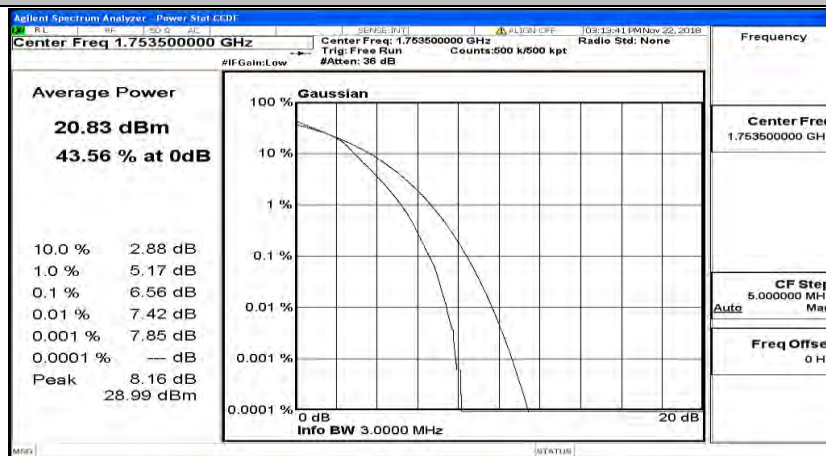
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



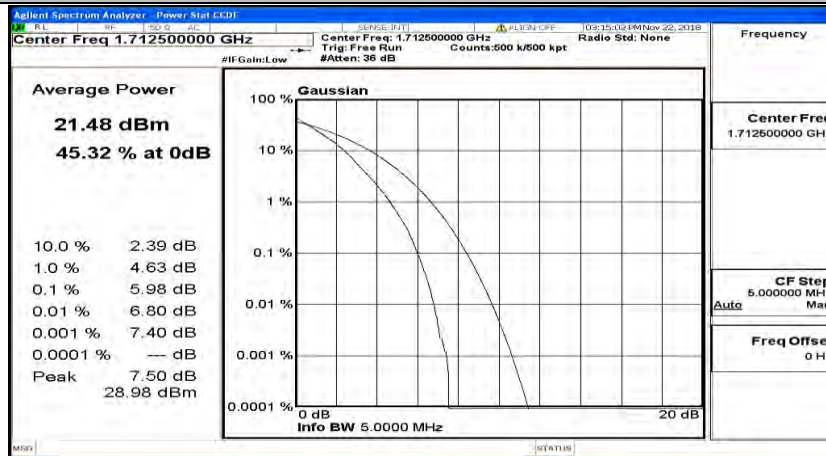
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



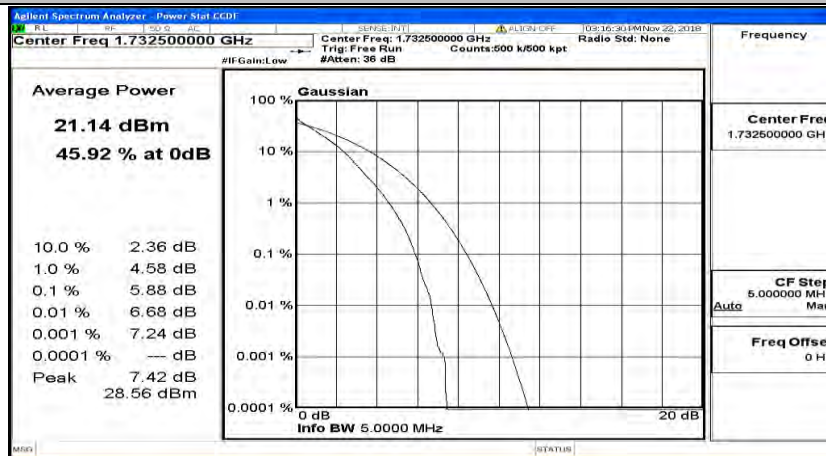
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



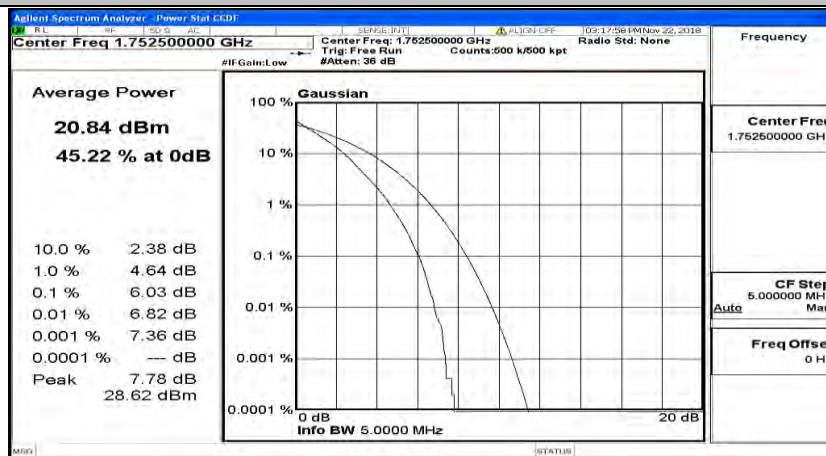
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



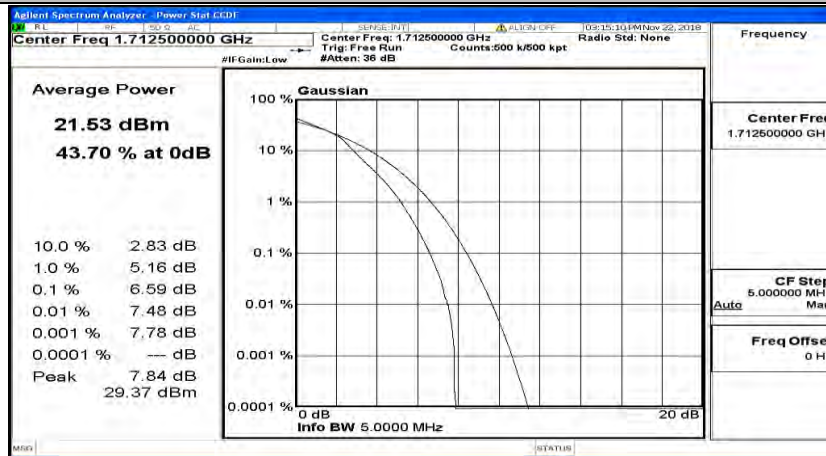
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



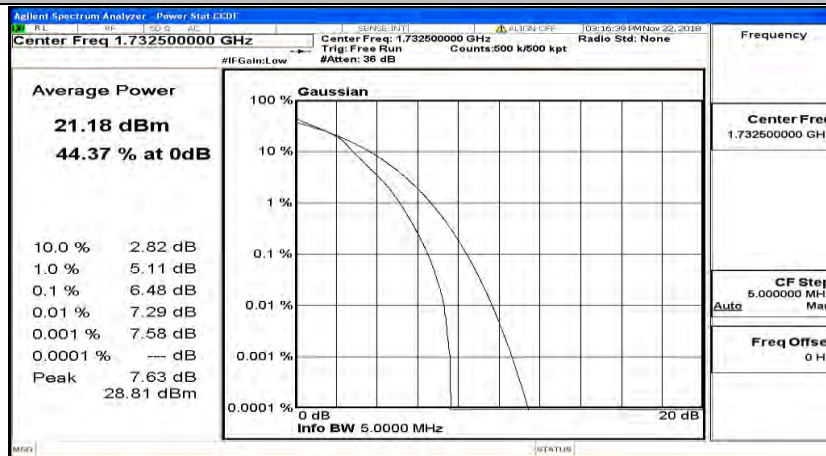
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



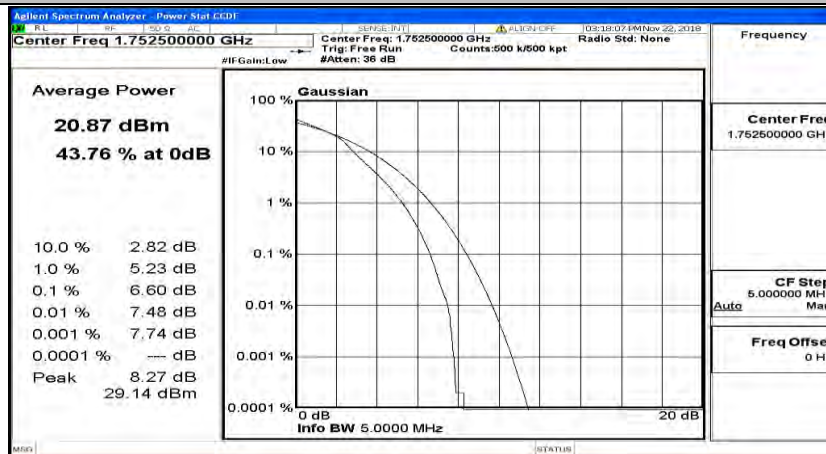
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



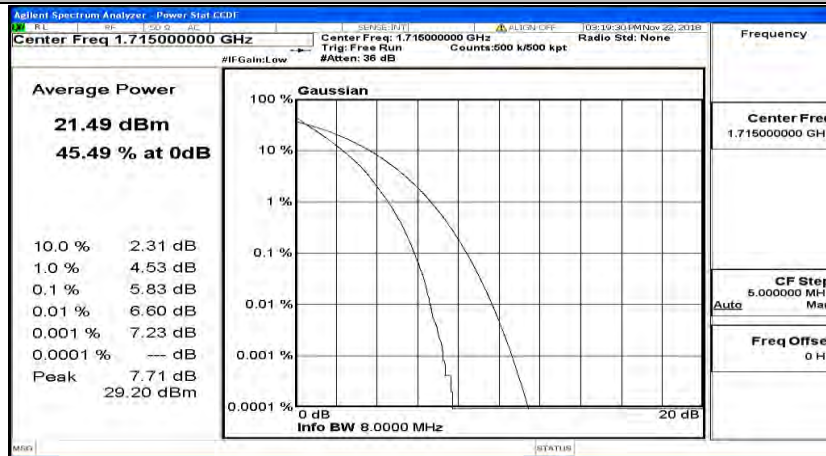
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



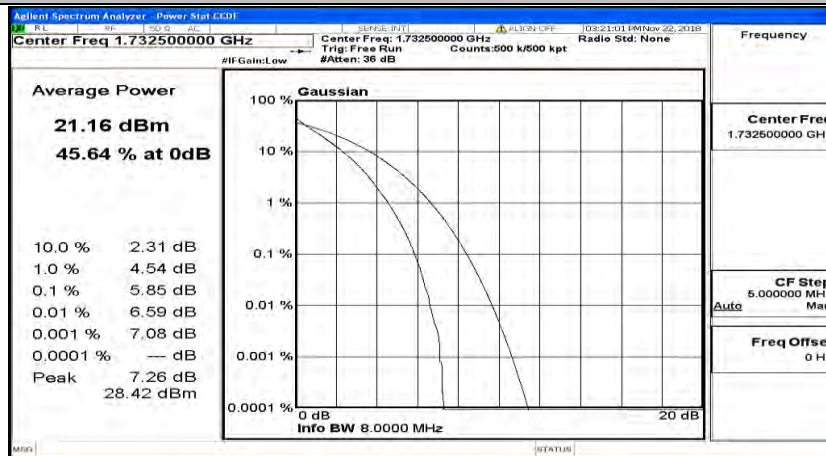
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



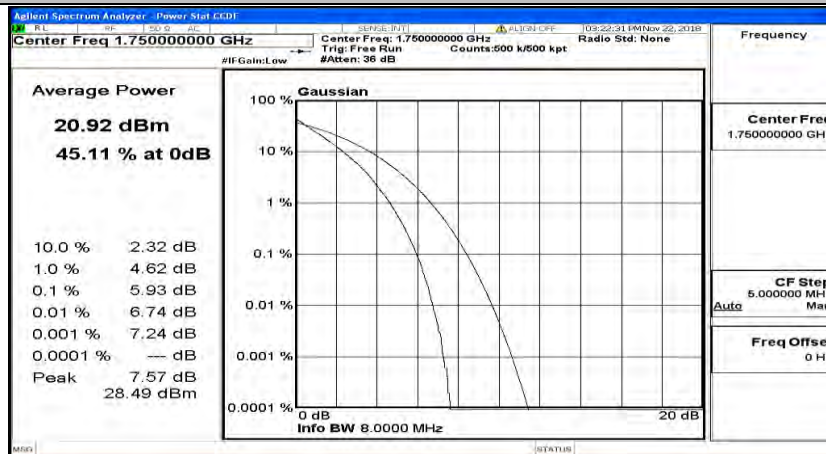
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



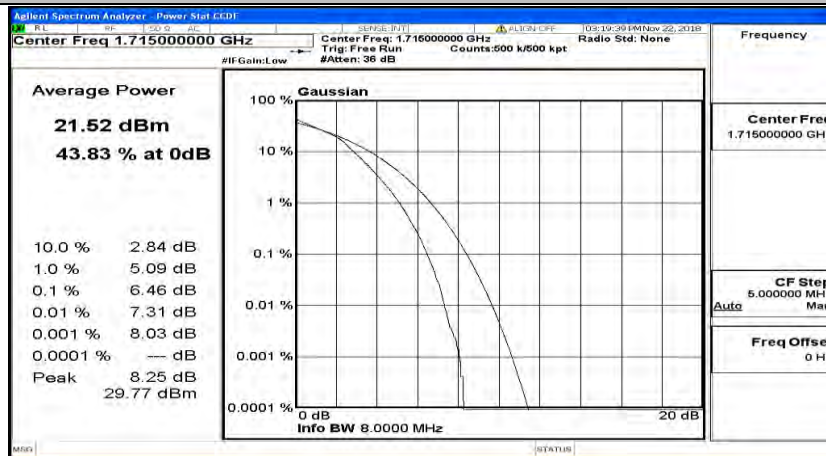
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



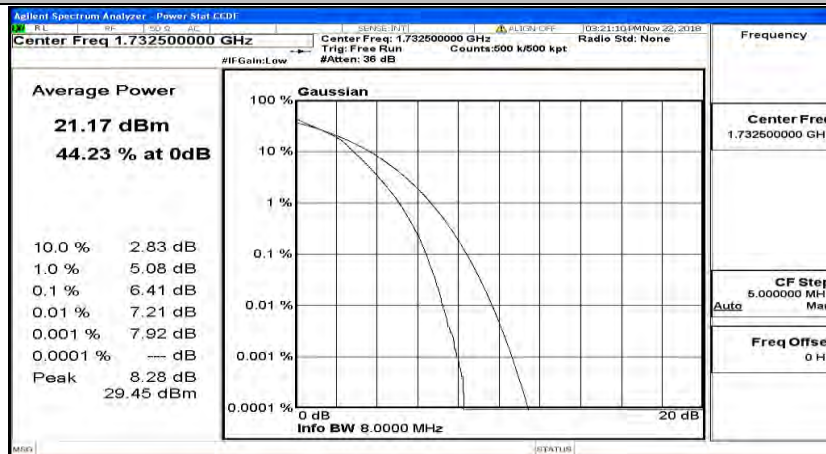
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



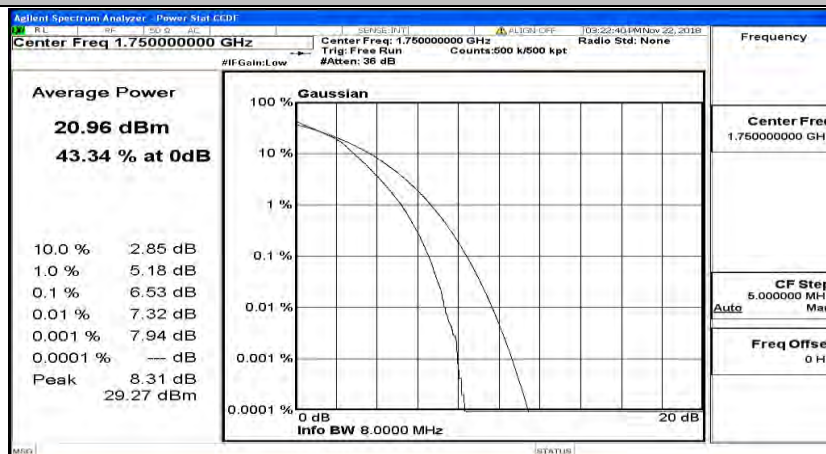
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



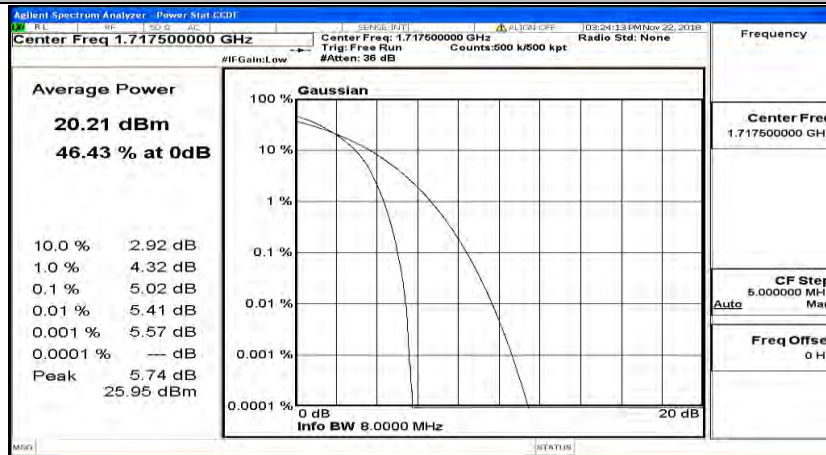
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



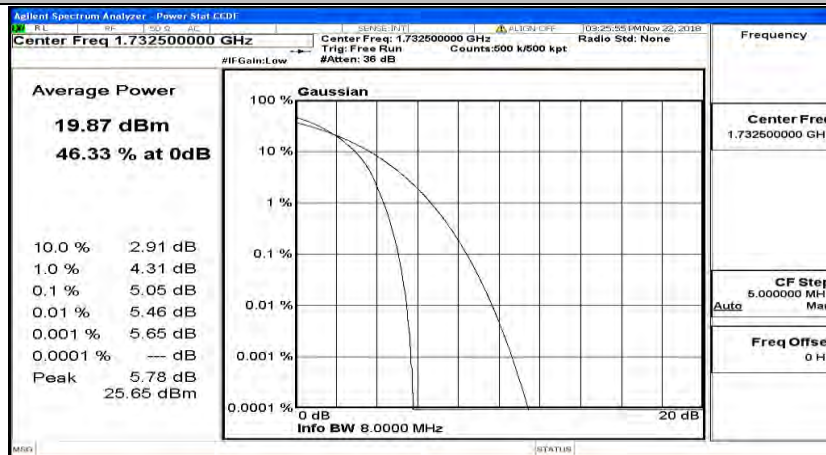
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



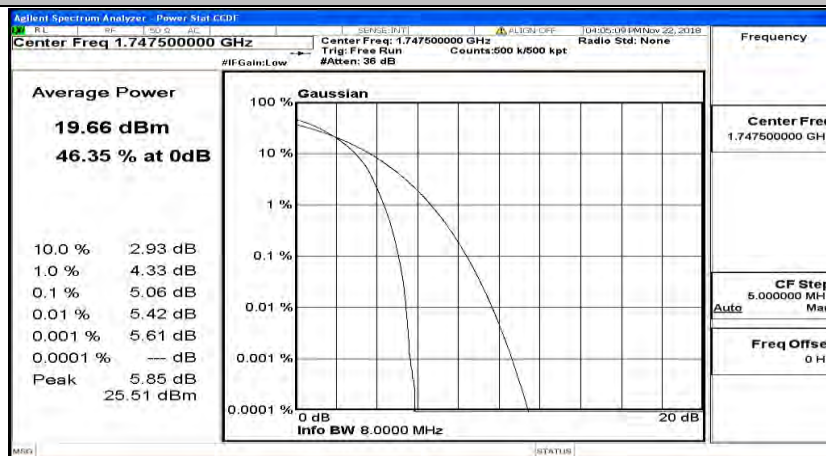
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



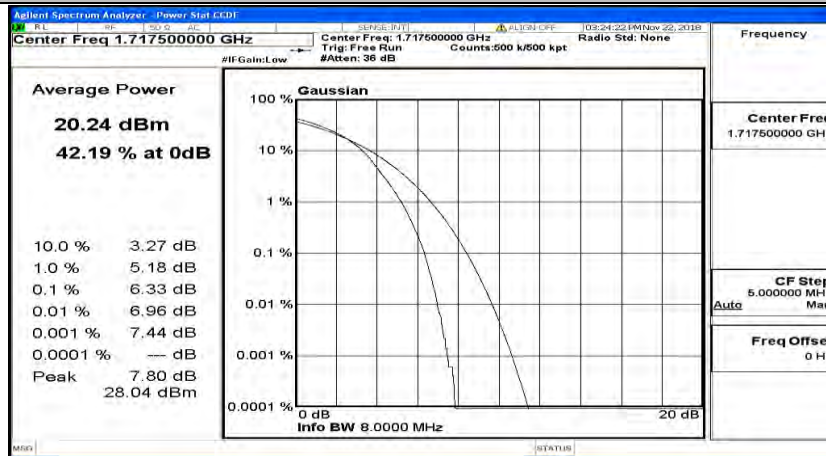
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



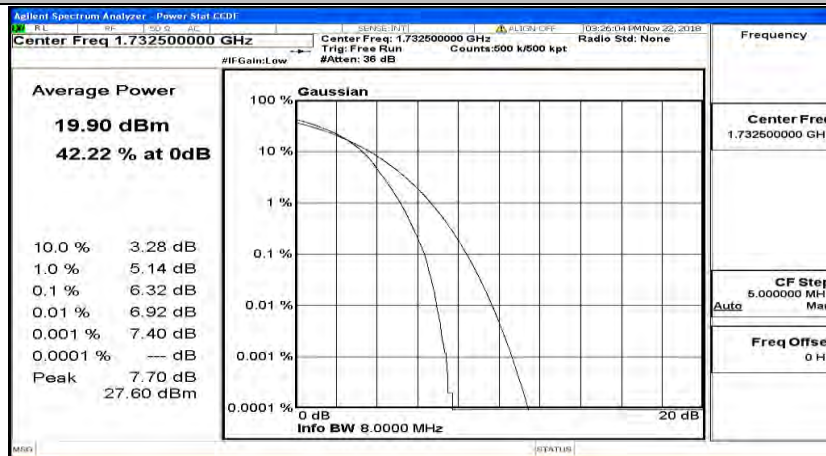
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



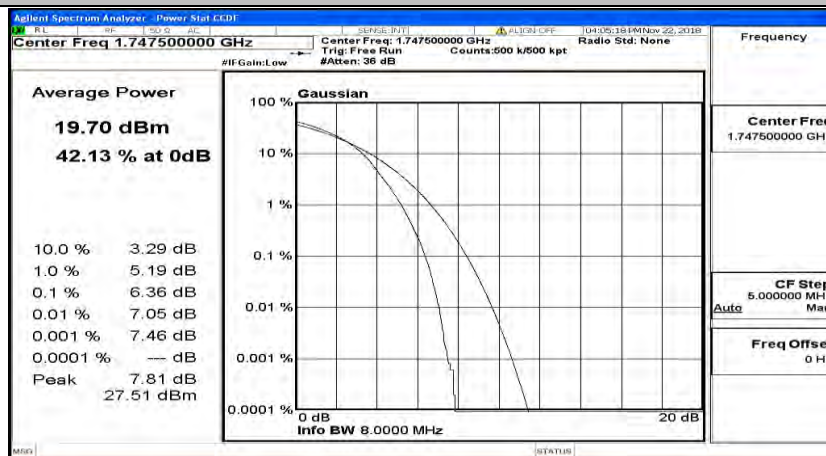
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



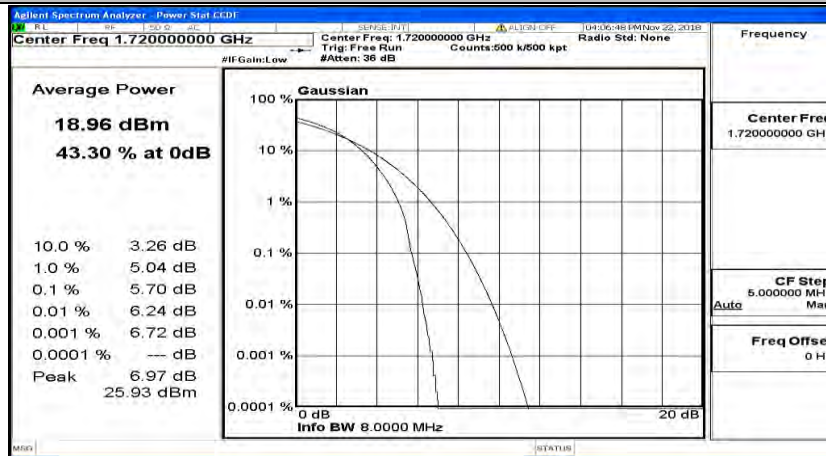
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



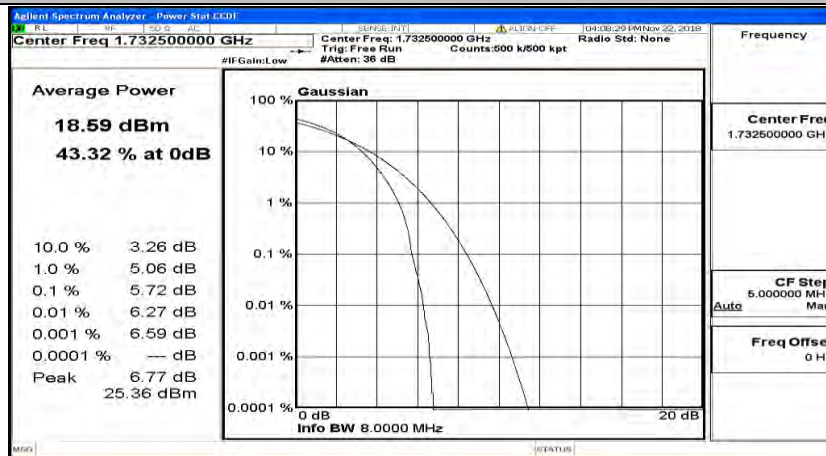
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



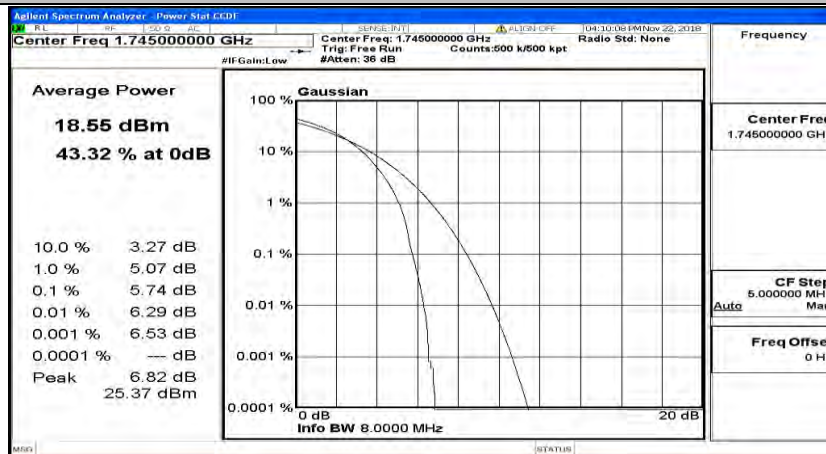
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



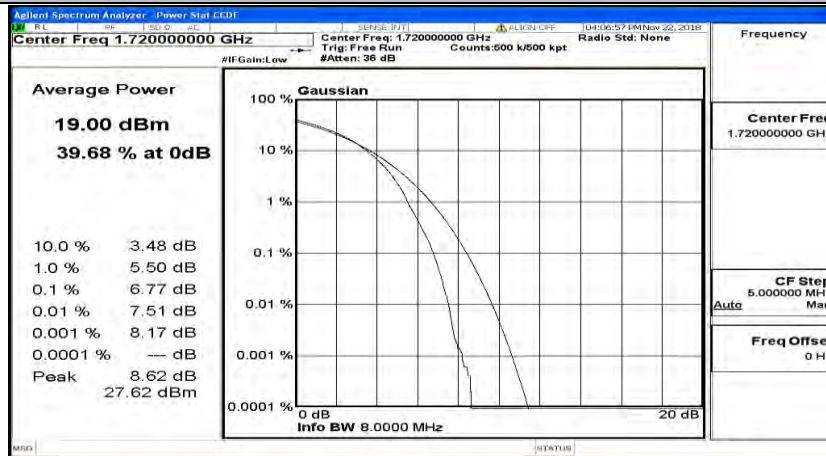
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



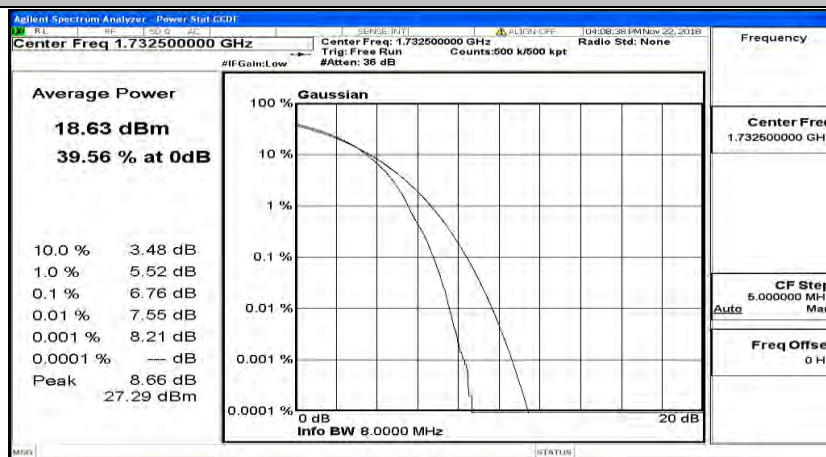
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



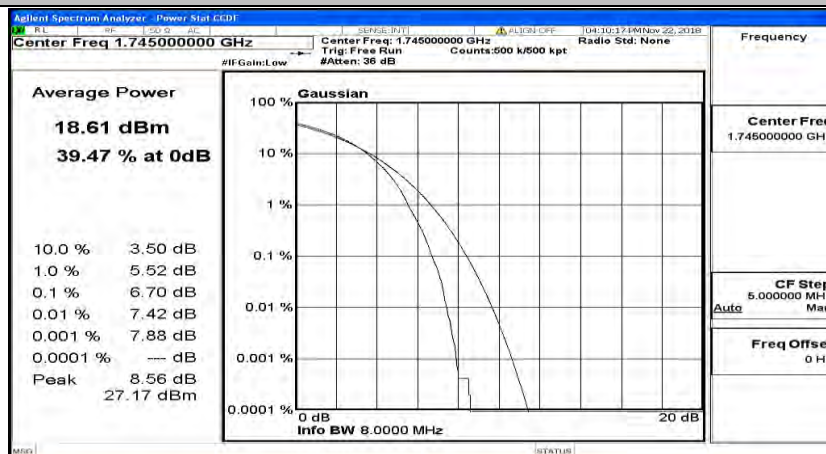
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM



E.3 26dB Bandwidth and Occupied Bandwidth

EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0784	1.211	PASS
	MCH	1.0769	1.211	PASS
	HCH	1.0774	1.209	PASS
16QAM	LCH	1.0787	1.226	PASS
	MCH	1.0790	1.211	PASS
	HCH	1.0768	1.212	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6857	2.871	PASS
	MCH	2.6811	2.875	PASS
	HCH	2.6828	2.872	PASS
16QAM	LCH	2.6829	2.871	PASS
	MCH	2.6852	2.877	PASS
	HCH	2.6884	2.863	PASS

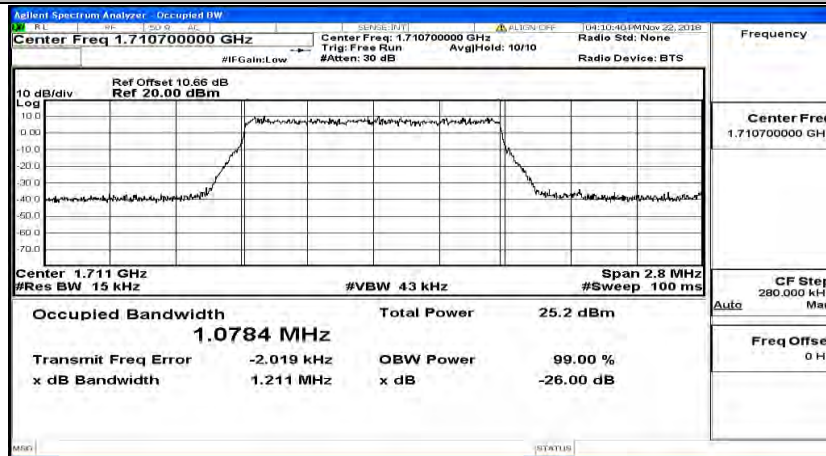
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4880	4.823	PASS
	MCH	4.4810	4.787	PASS
	HCH	4.4815	4.825	PASS
16QAM	LCH	4.4774	4.847	PASS
	MCH	4.4828	4.838	PASS
	HCH	4.4880	4.816	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9381	9.475	PASS
	MCH	8.9478	9.492	PASS
	HCH	8.9301	9.474	PASS
16QAM	LCH	8.9238	9.438	PASS
	MCH	8.9376	9.428	PASS
	HCH	8.9468	9.441	PASS

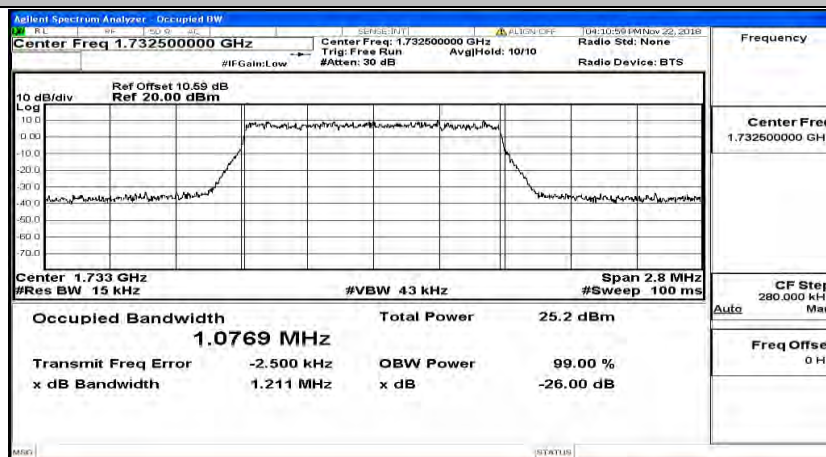
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	13.390	14.06	PASS
	MCH	13.412	14.08	PASS
	HCH	13.419	14.02	PASS
16QAM	LCH	13.393	14.06	PASS
	MCH	13.415	14.04	PASS
	HCH	13.400	14.11	PASS

EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	17.853	18.64	PASS
	MCH	17.880	18.64	PASS
	HCH	17.867	18.63	PASS
16QAM	LCH	17.849	18.62	PASS
	MCH	17.895	18.65	PASS
	HCH	17.853	18.63	PASS

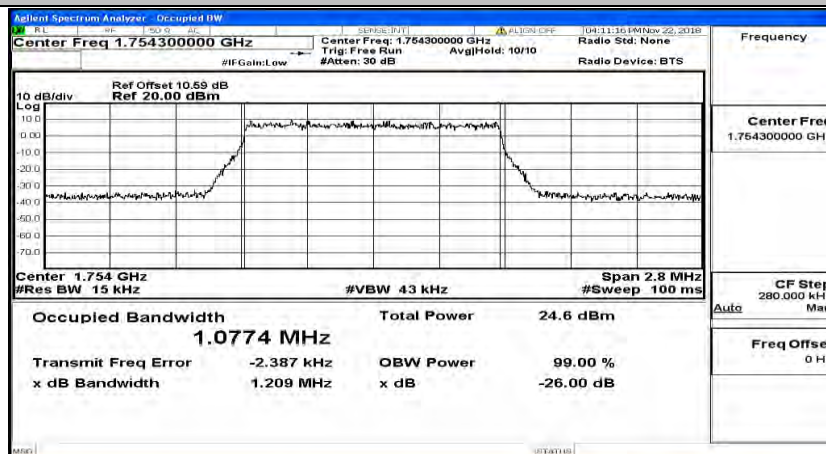
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



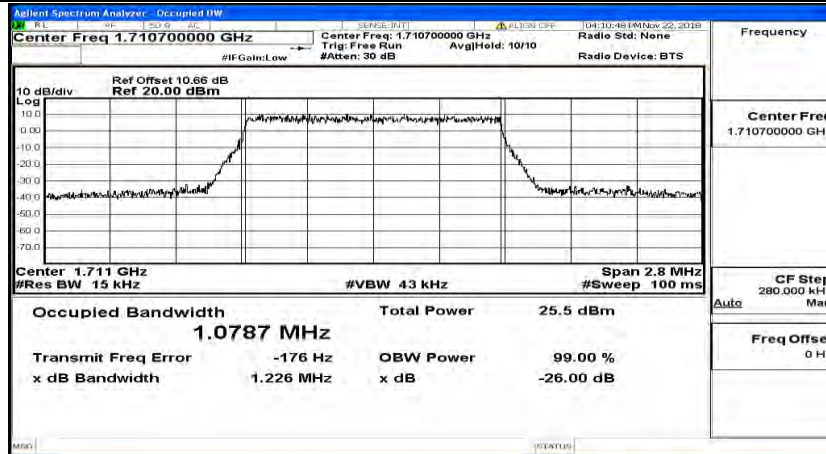
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



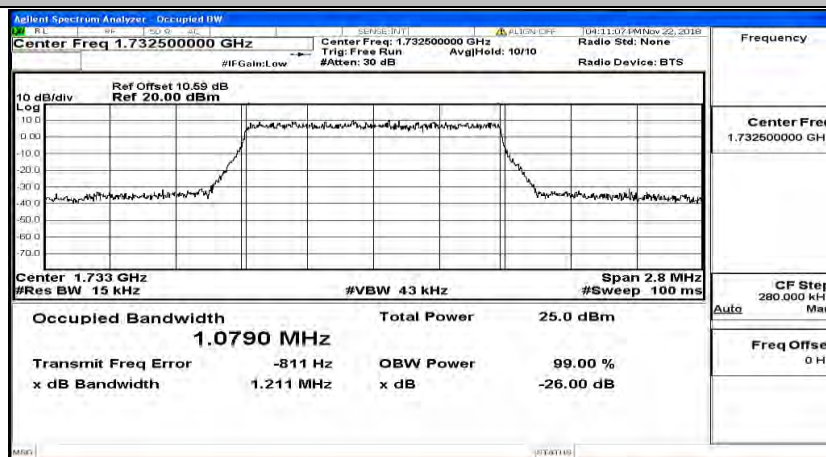
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



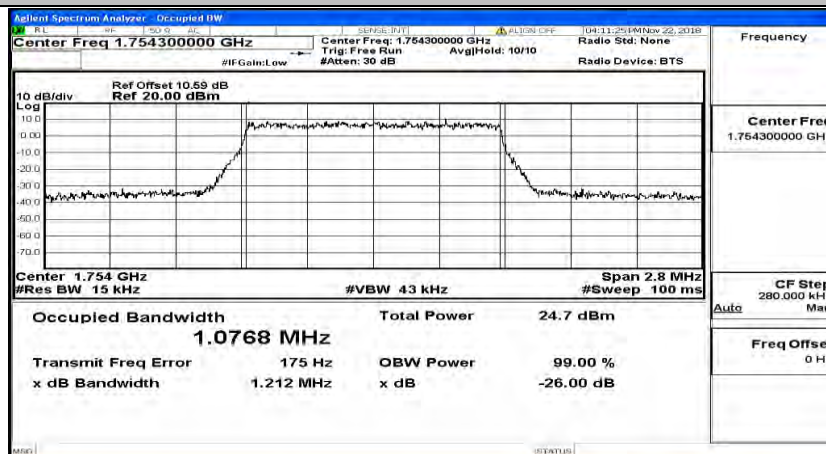
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



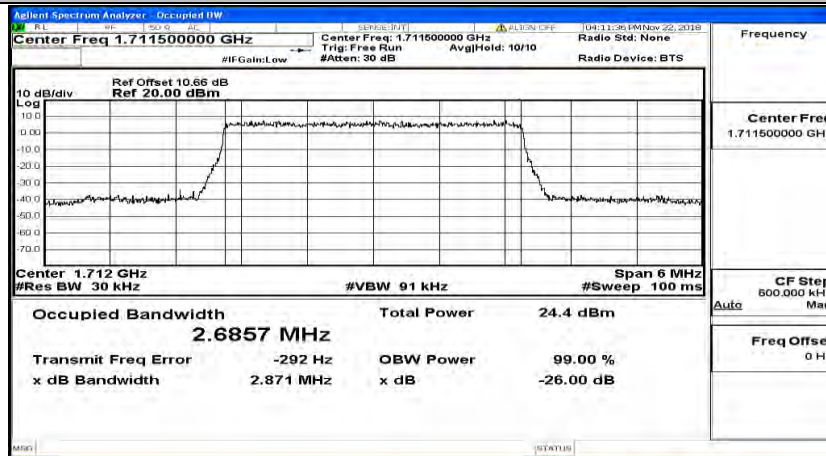
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



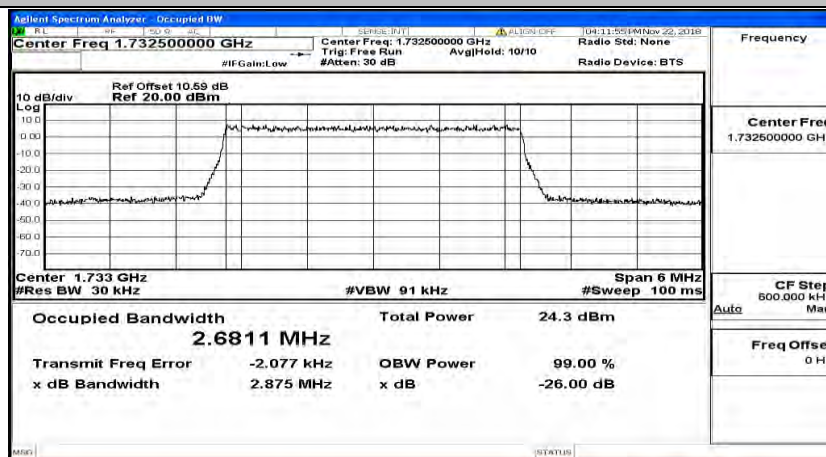
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



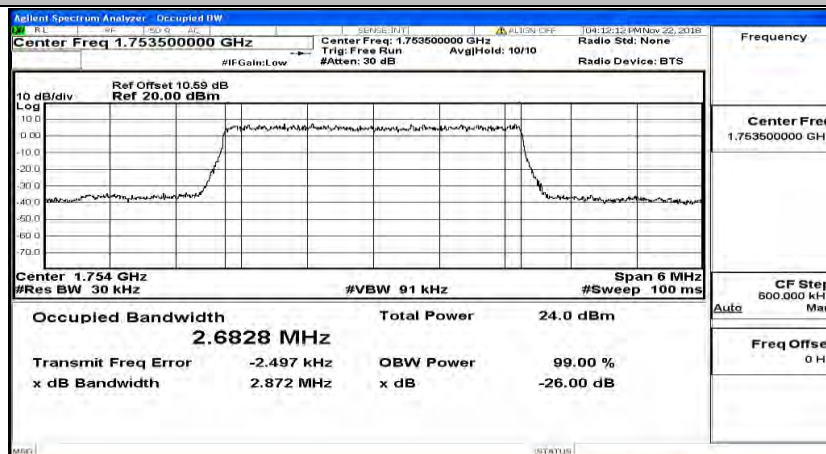
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



[illegible]

Silent Spectrum Analyzer - Occupied BW
 17325000000 GHz
 Center Freq: 1.732500000 GHz
 Trig: Free Run
 #If Gain: Low
 Avg/Hold: 10/10
 Radio Std: None
 Radio Device: BTS

The plot shows a spectrum with a central signal. The y-axis is labeled '10 dB/div' and 'Log' with a scale from 0 to -70. The x-axis is labeled 'Span 6 MHz' and '#Sweep 100 ms'. The signal is centered at 1.732500000 GHz. The plot shows a sharp peak at the center frequency, with the signal level dropping off on either side. The peak level is approximately -10 dBm.

Center 1.733 GHz
 #Res BW 30 kHz
 #VBW 91 kHz
 Span 6 MHz
 #Sweep 100 ms

Occupied Bandwidth	Total Power	24.3 dBm
2.6852 MHz		
Transmit Freq Error	-1.014 kHz	99.00 %
x dB Bandwidth	2.877 MHz	-26.00 dB

Patient Spectrum Analyzer - Occupied BW
 #1: [] #2: [] #3: [] #4: [] #5: [] #6: [] #7: [] #8: [] #9: [] #10: []
 Center Freq 1.753500000 GHz Center Freq: 1.753500000 GHz Radio Std: None Frequency
 #IF Gain: Low Trig: Free Run Avg/Hold: 10/10 Radio Device: BTS
 #IF Gain: Low #Atten: 30 dB

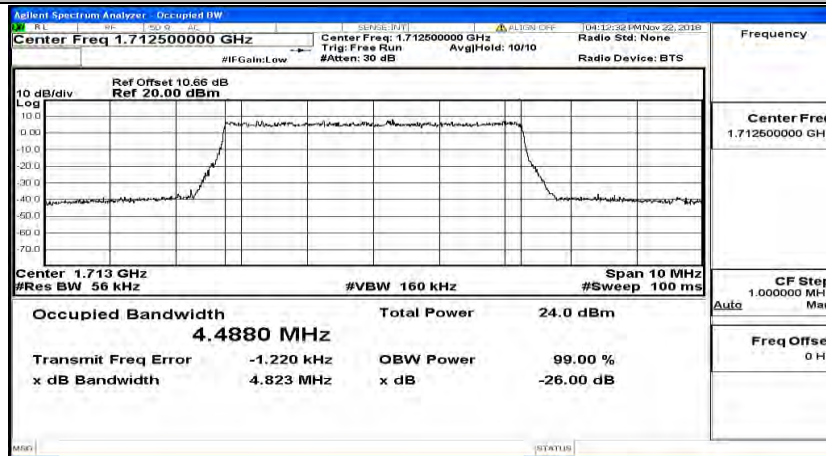
10 dB/div Ref Offset 10.69 dB
 Log Ref 20.00 dBm

Center 1.754 GHz Span 6 MHz
 #Res BW 30 kHz #VBW 91 kHz #Sweep 100 ms

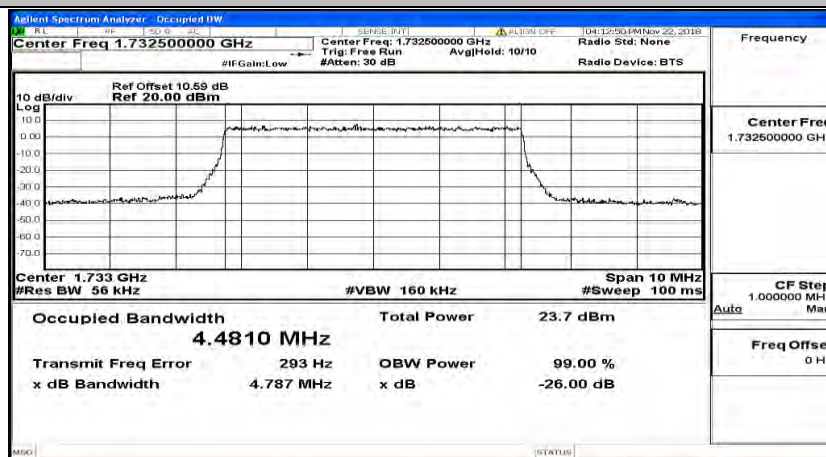
Occupied Bandwidth	Total Power	23.9 dBm
2.6884 MHz		
Transmit Freq Error	-3.573 kHz	OBW Power
x dB Bandwidth	2.863 MHz	x dB
		99.00 %
		-26.00 dB

CF Step 500.000 kHz
 Auto Man
 Freq Offset 0 Hz

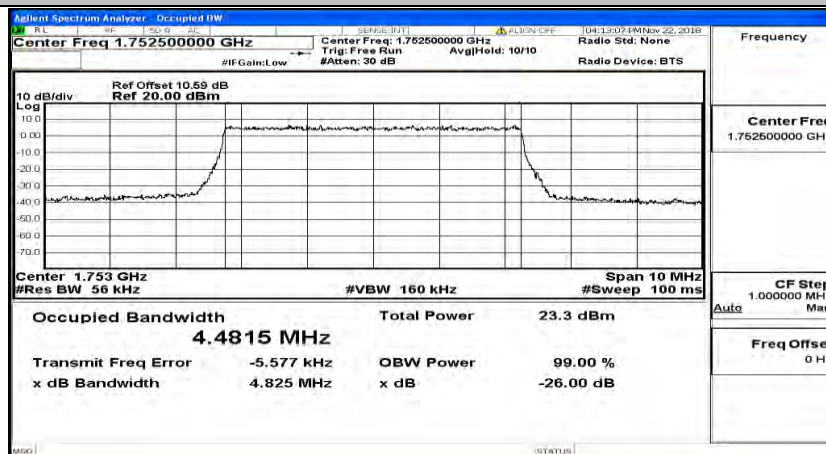
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



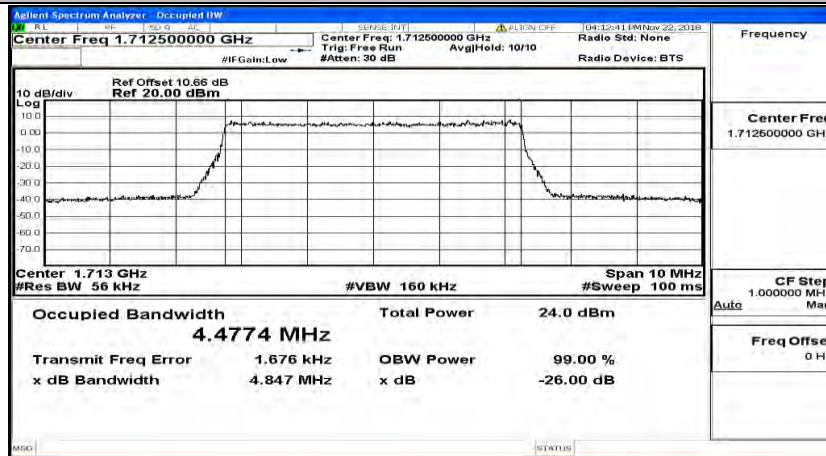
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



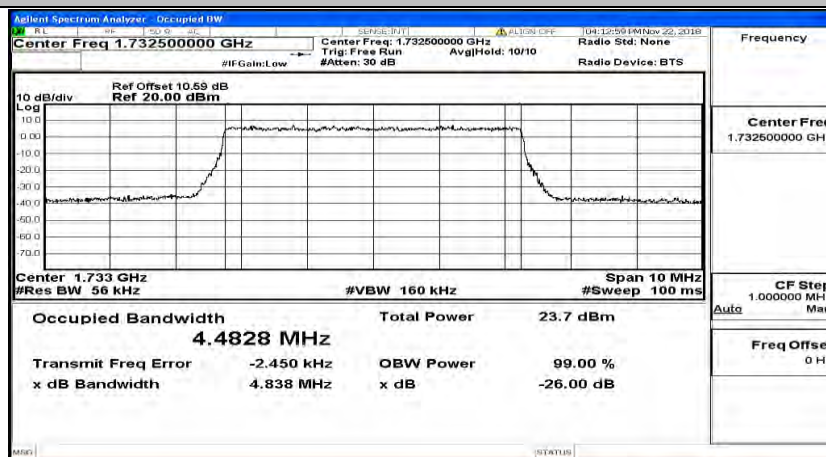
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



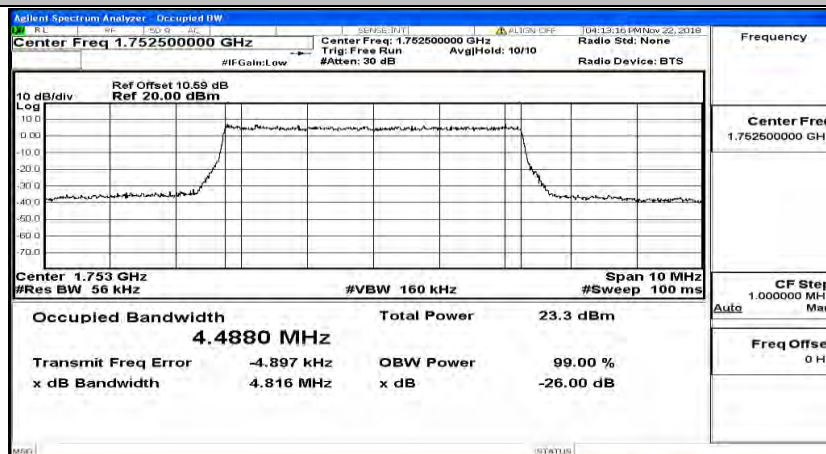
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



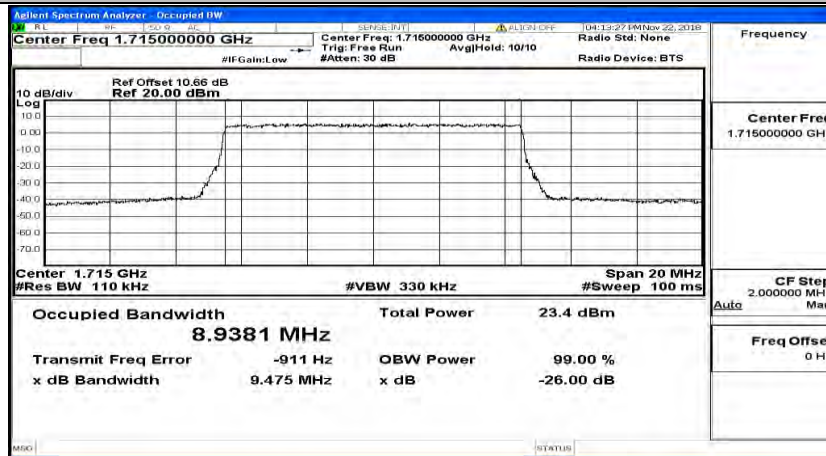
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



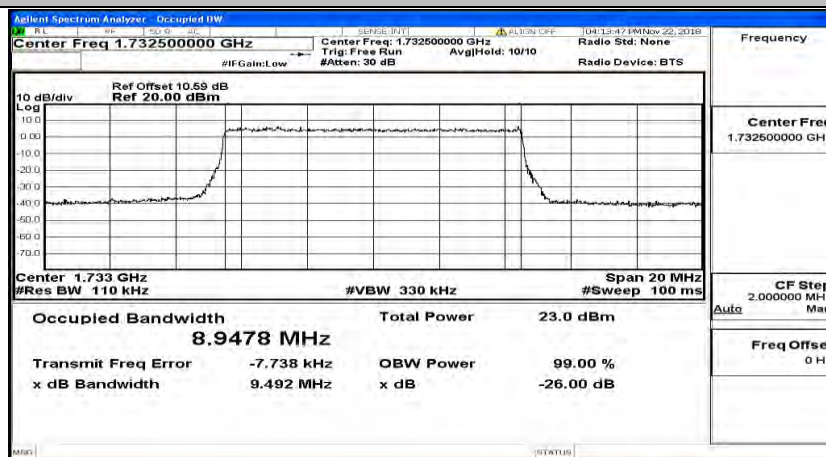
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



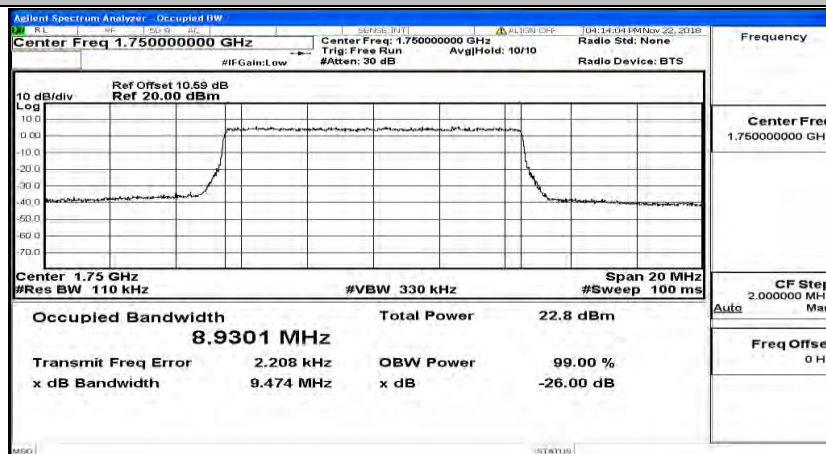
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



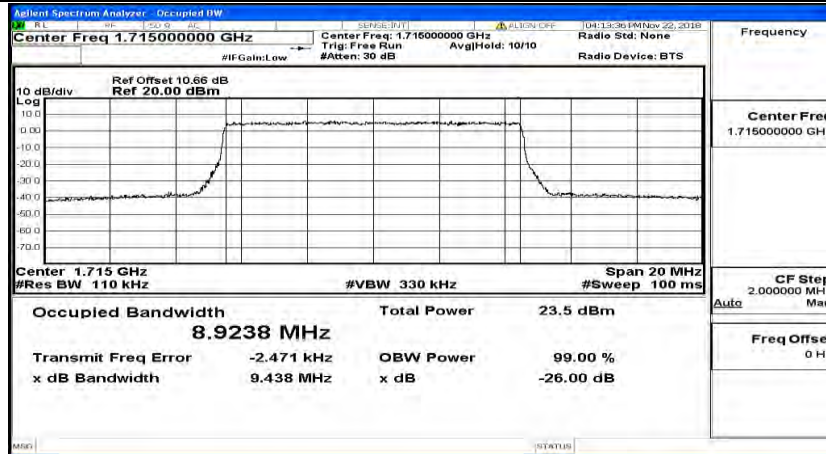
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



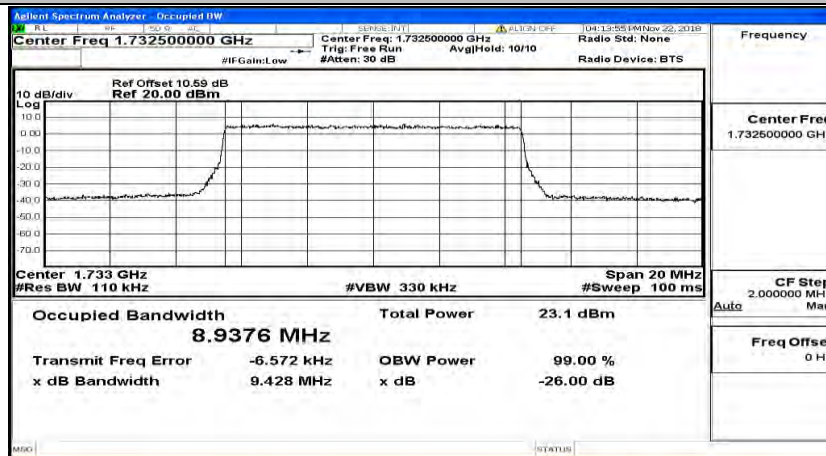
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



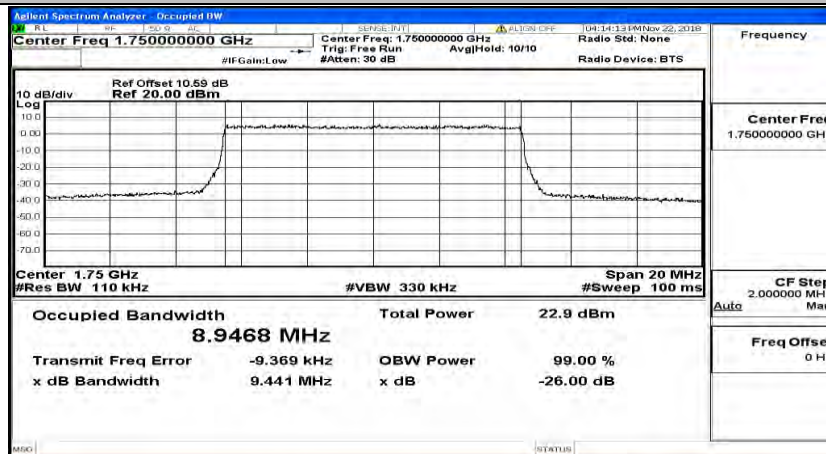
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



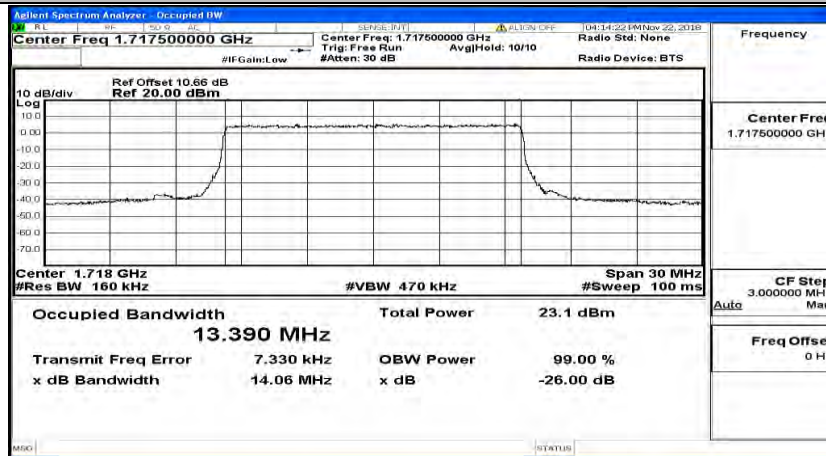
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



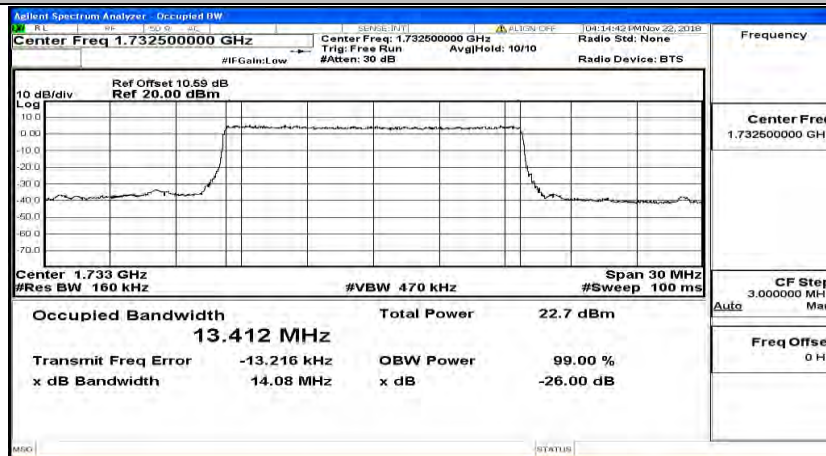
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



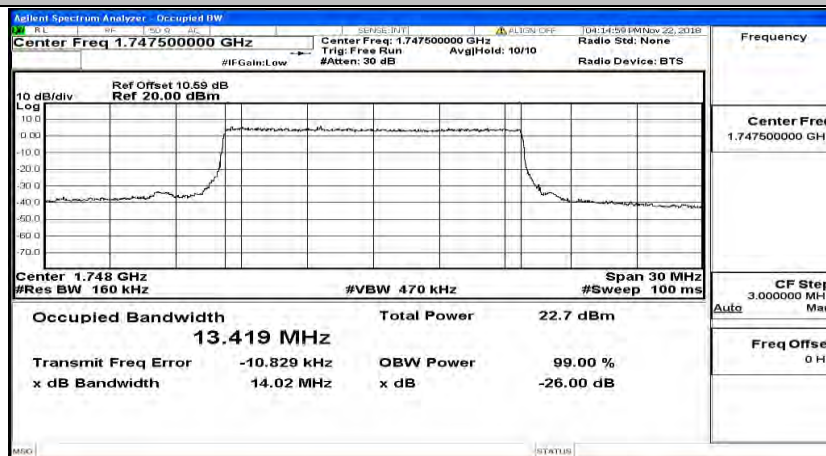
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



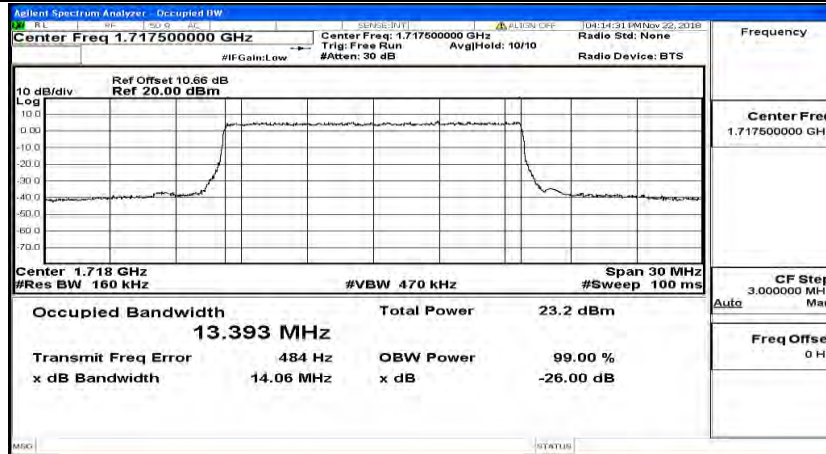
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



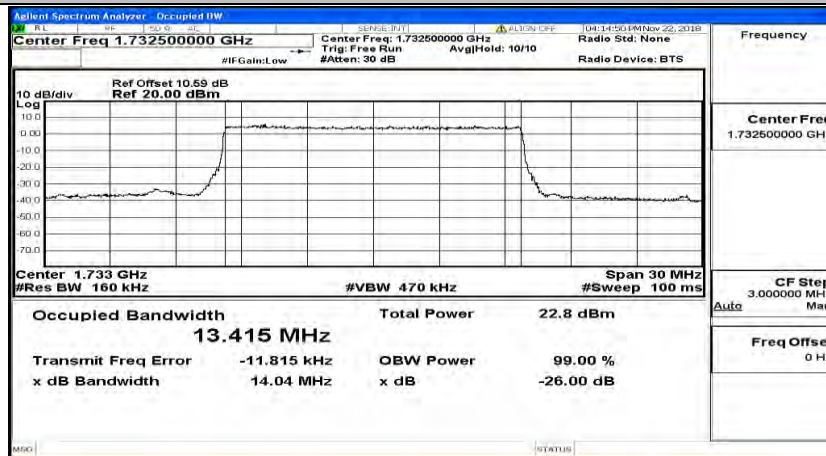
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



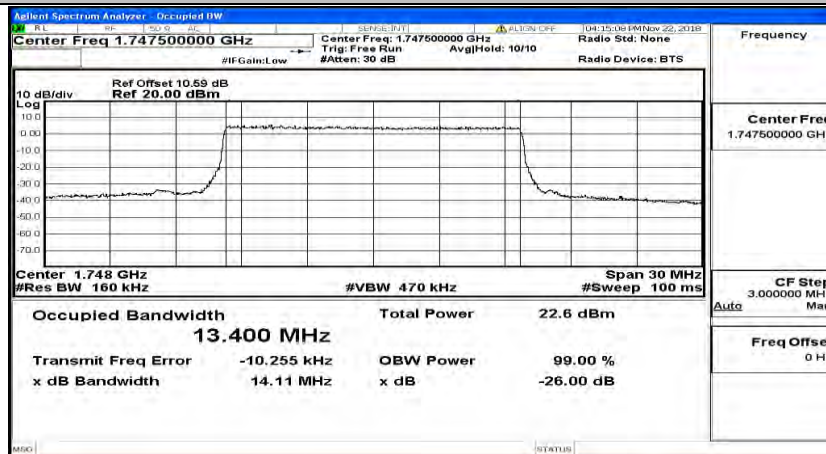
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



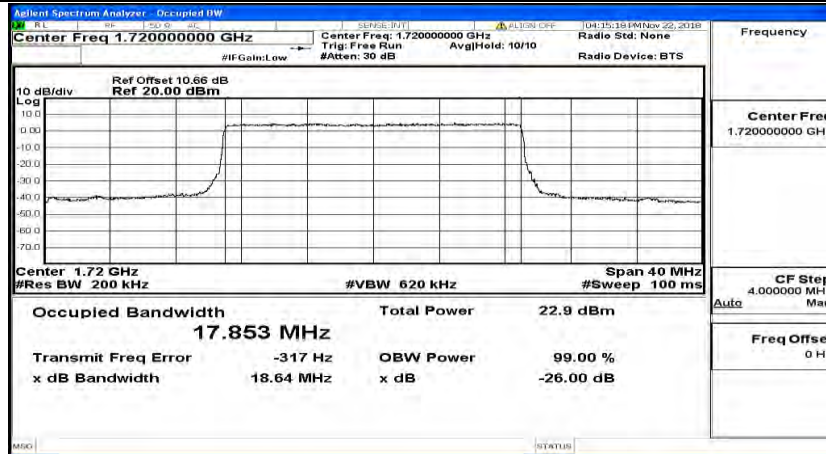
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



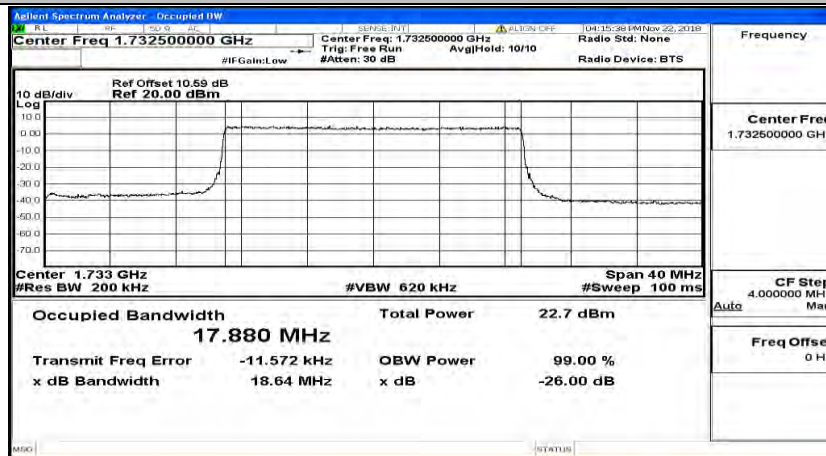
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



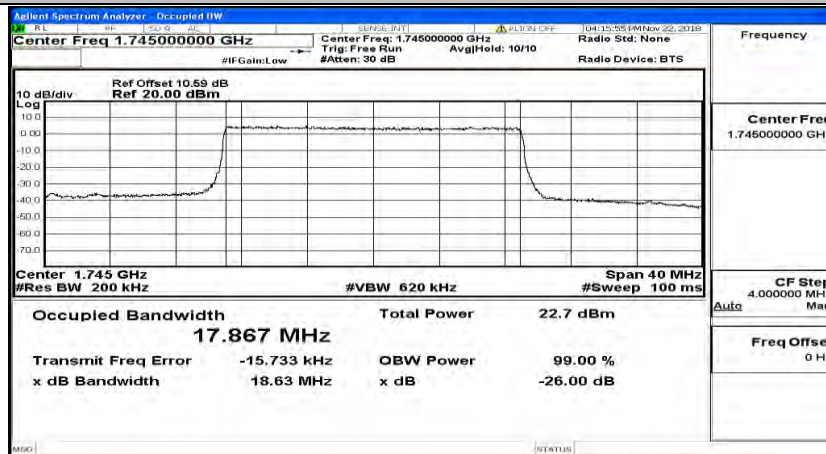
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



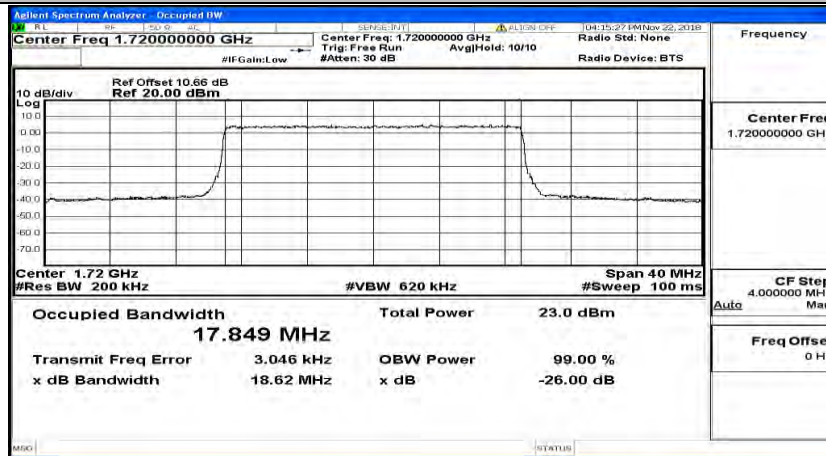
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



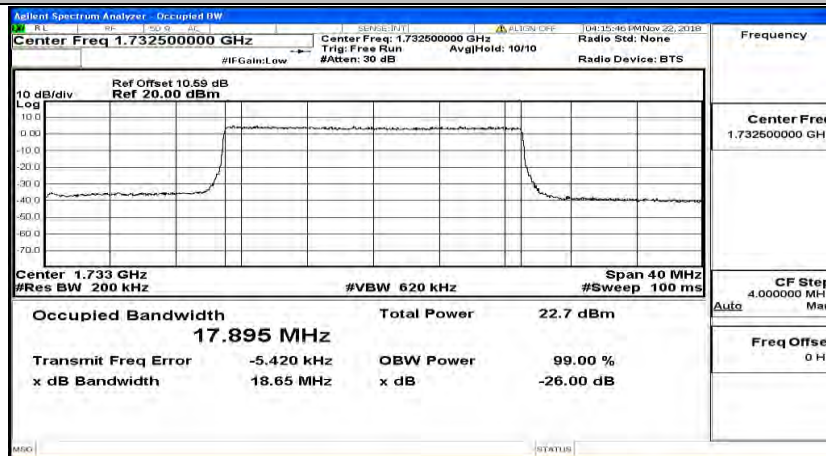
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



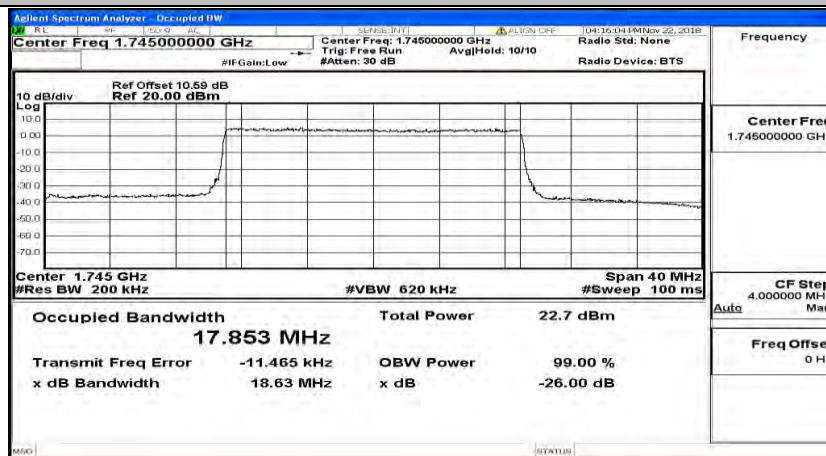
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_16QAM

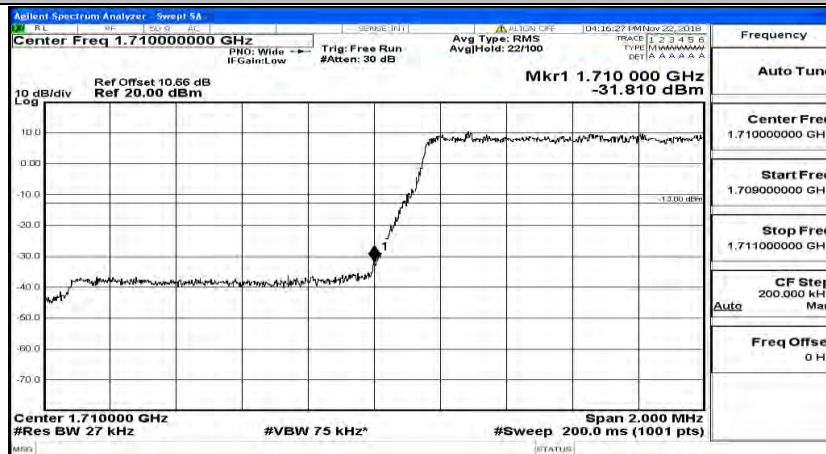


EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

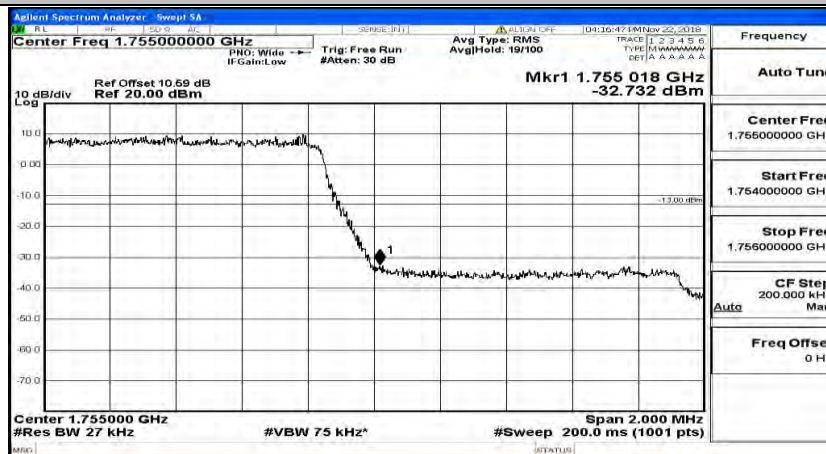


E.4 Band Edge

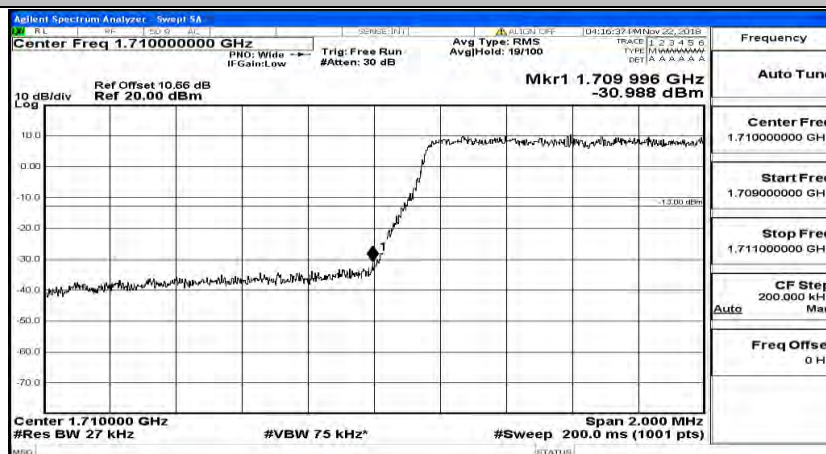
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



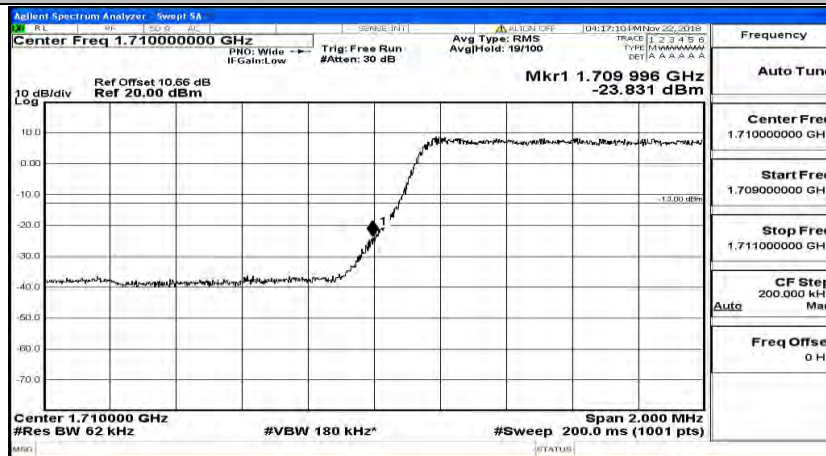
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



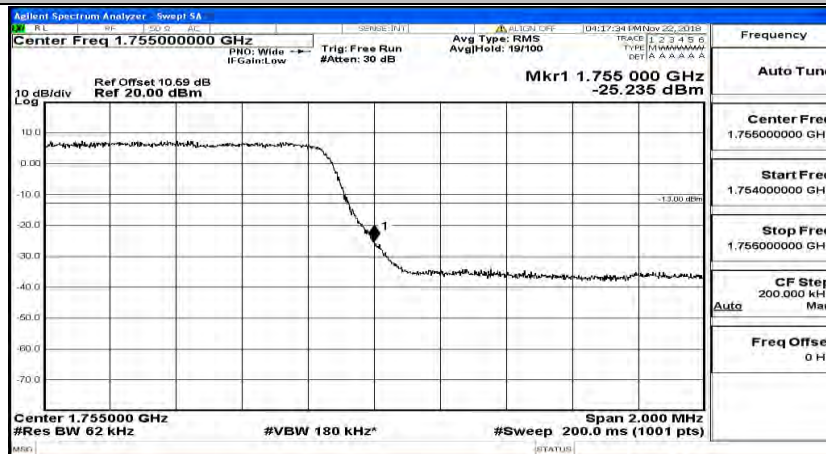
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



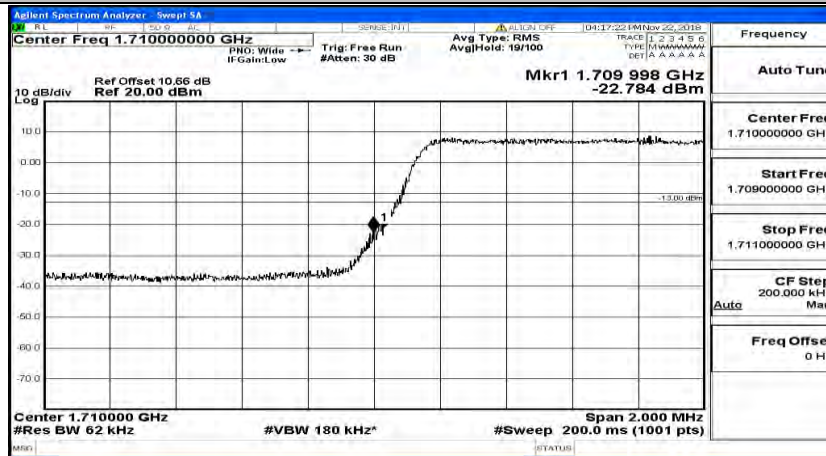
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



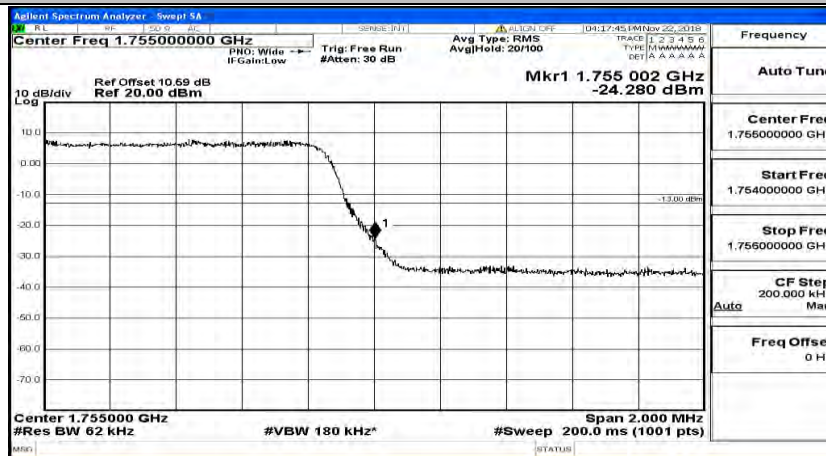
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



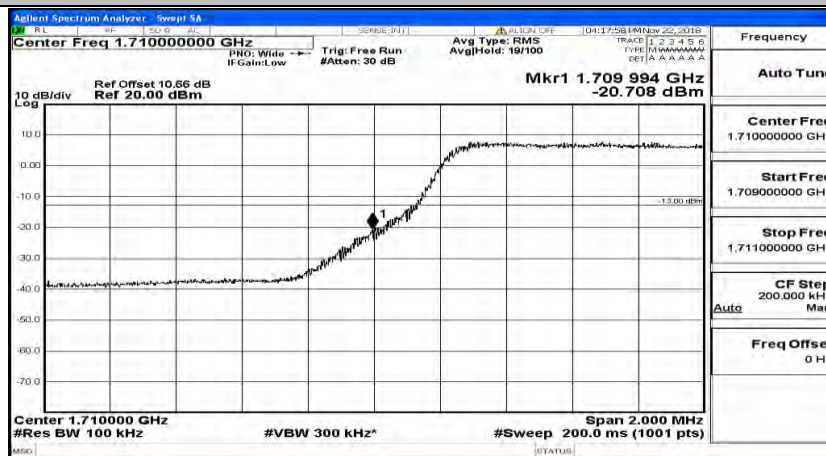
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



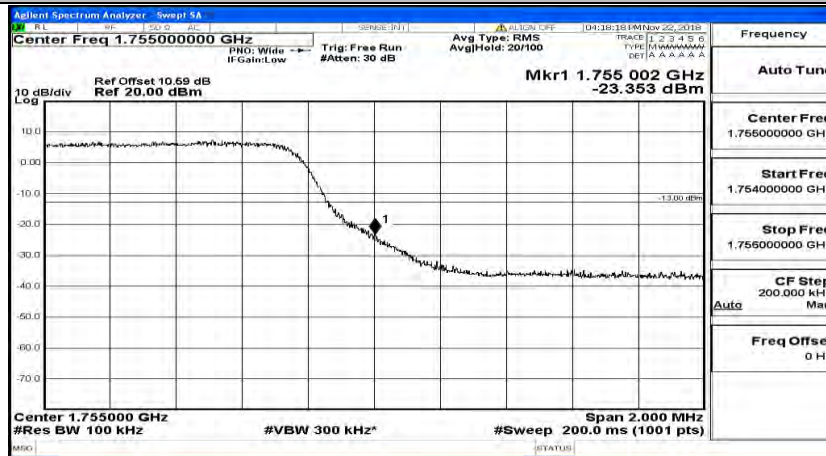
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



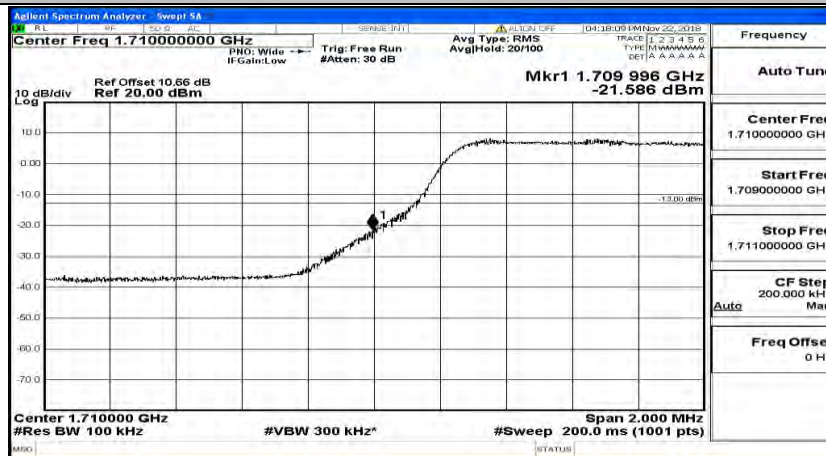
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



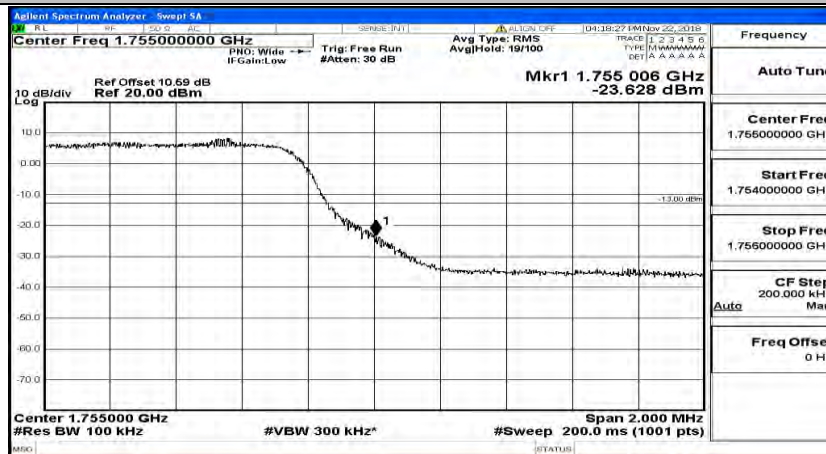
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



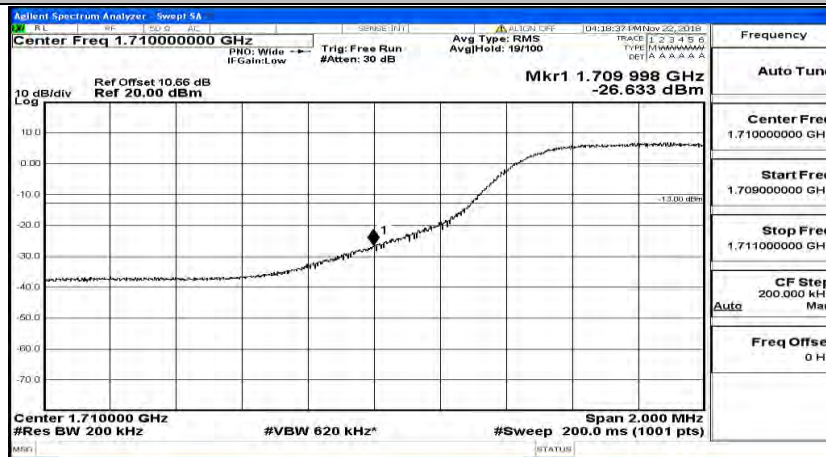
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



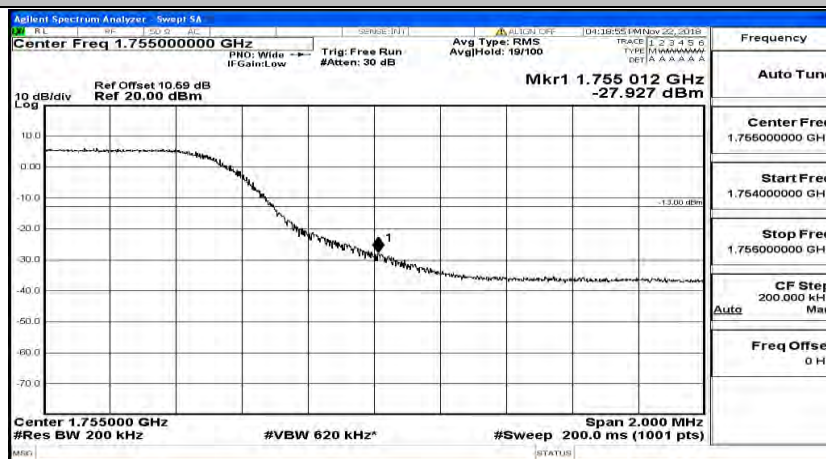
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



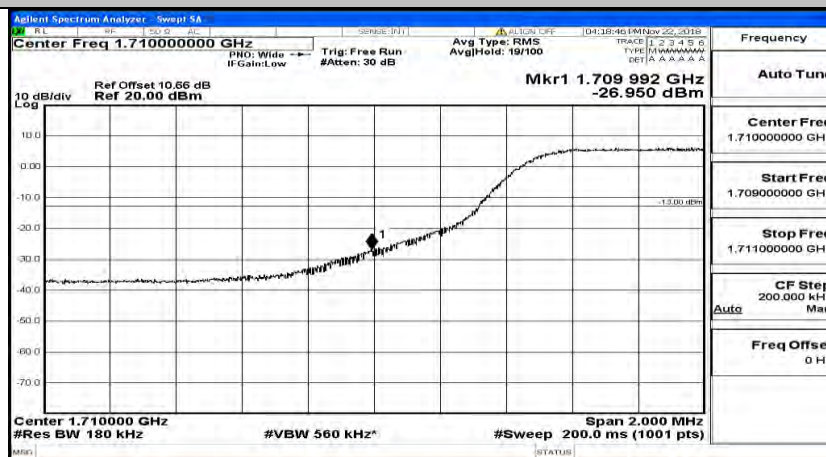
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



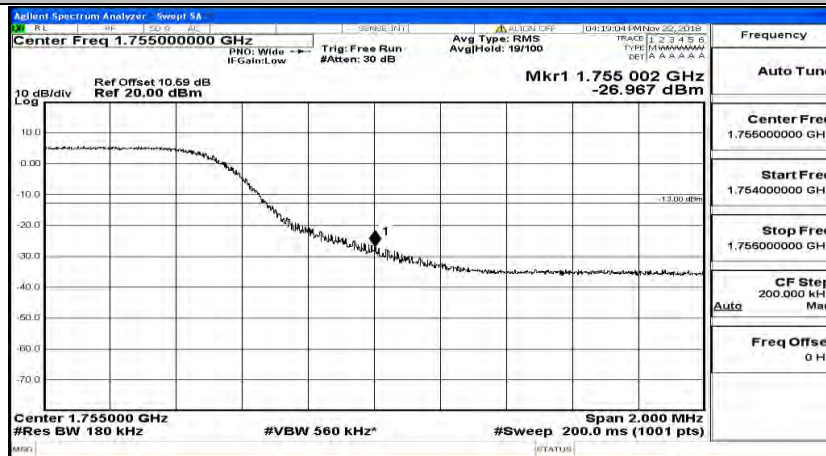
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



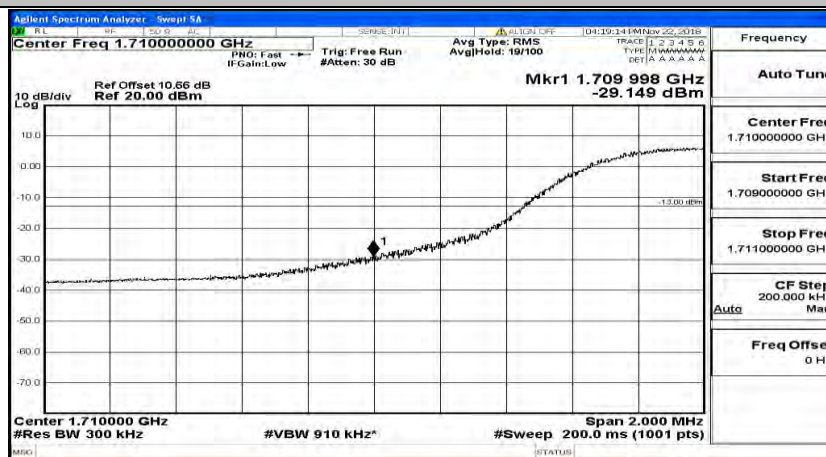
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



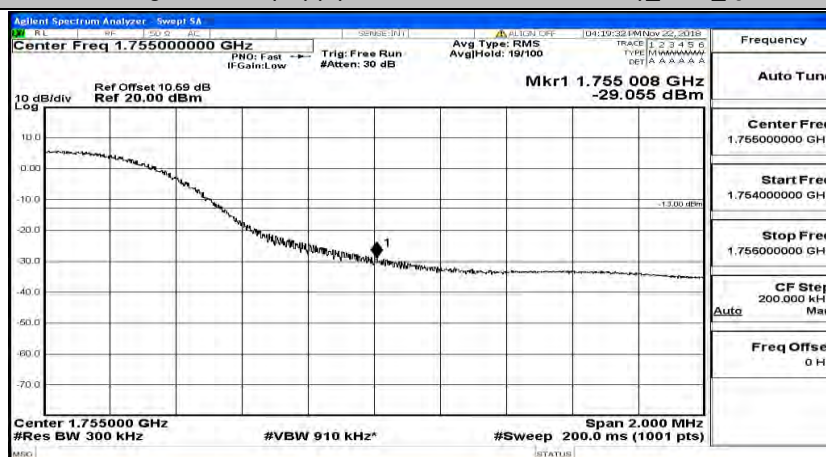
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



Agilent Spectrum Analyzer - Swept SA

Center Freq 1.710000000 GHz

Ref Offset 10.66 dB

Ref 20.00 dBm

Mkr1 1.709 998 GHz

-28.694 dBm

Center Freq 1.71000000 GHz

Start Freq 1.709000000 GHz

Stop Freq 1.711000000 GHz

CF Step 200.000 kHz

Auto

Freq Offset 0 Hz

Center 1.710000 GHz

#Res BW 300 kHz

#VBW 910 kHz

Span 2.000 MHz

#Sweep 200.0 ms (1001 pts)

Agilent Spectrum Analyzer - Sweep 5A

Center Freq 1.755000000 GHz

Ref Offset 10.69 dB
Ref 20.00 dBm

10 dB/div
Log

Mkr1 1.755 008 GHz
-29.508 dBm

Center 1.755000 GHz
#Res BW 300 kHz
#VBW 910 kHz*
#Sweep 200.0 ms (1001 pts)

Span 2.000 MHz

Frequency

Auto Tun

Center Freq
1.755000000 GHz

Start Freq
1.764000000 GHz

Stop Freq
1.750000000 GHz

CF Step
200.000 kHz
Auto

Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA

Center Freq 1.710000000 GHz

Ref Offset 10.66 dB
Ref 20.00 dBm

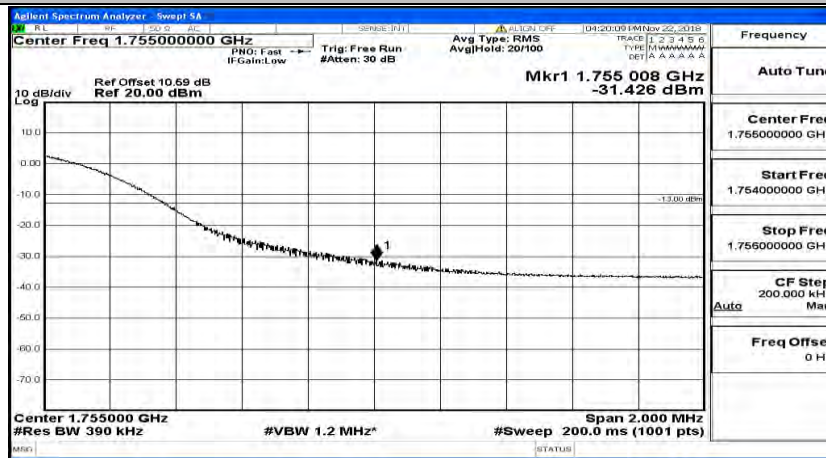
10 dB/Div
Log

Center Freq 1.71000000 GHz
Start Freq 1.709000000 GHz
Stop Freq 1.711000000 GHz
CF Step 200.000 kHz
Auto
Freq Offset 0 Hz

Mkr1 1.709 998 GHz
-31.673 dBm

Span 2.000 MHz
#Res BW 390 kHz
#VBW 1.2 MHz
#Sweep 200.0 ms (1001 pts)

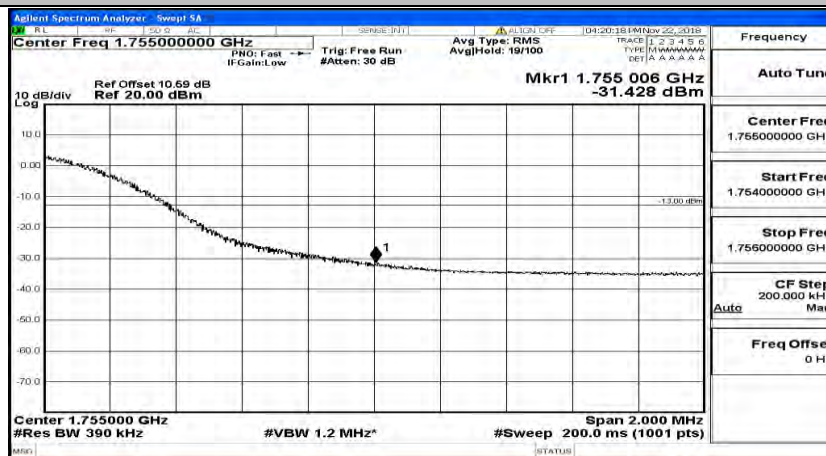
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK

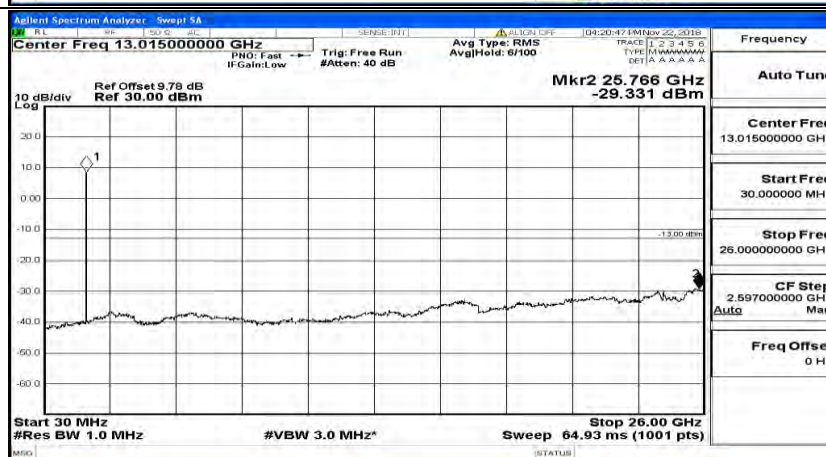
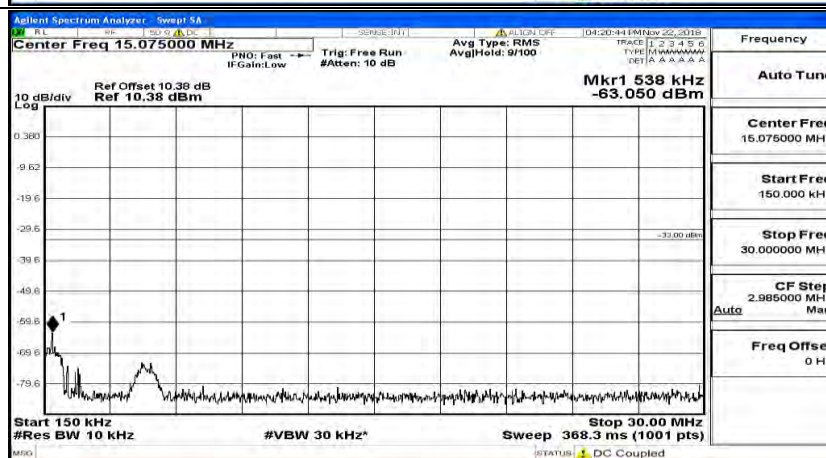
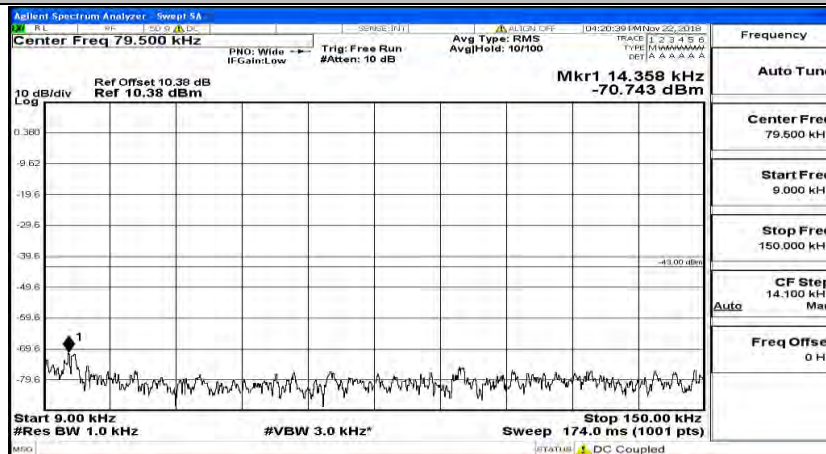


Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM

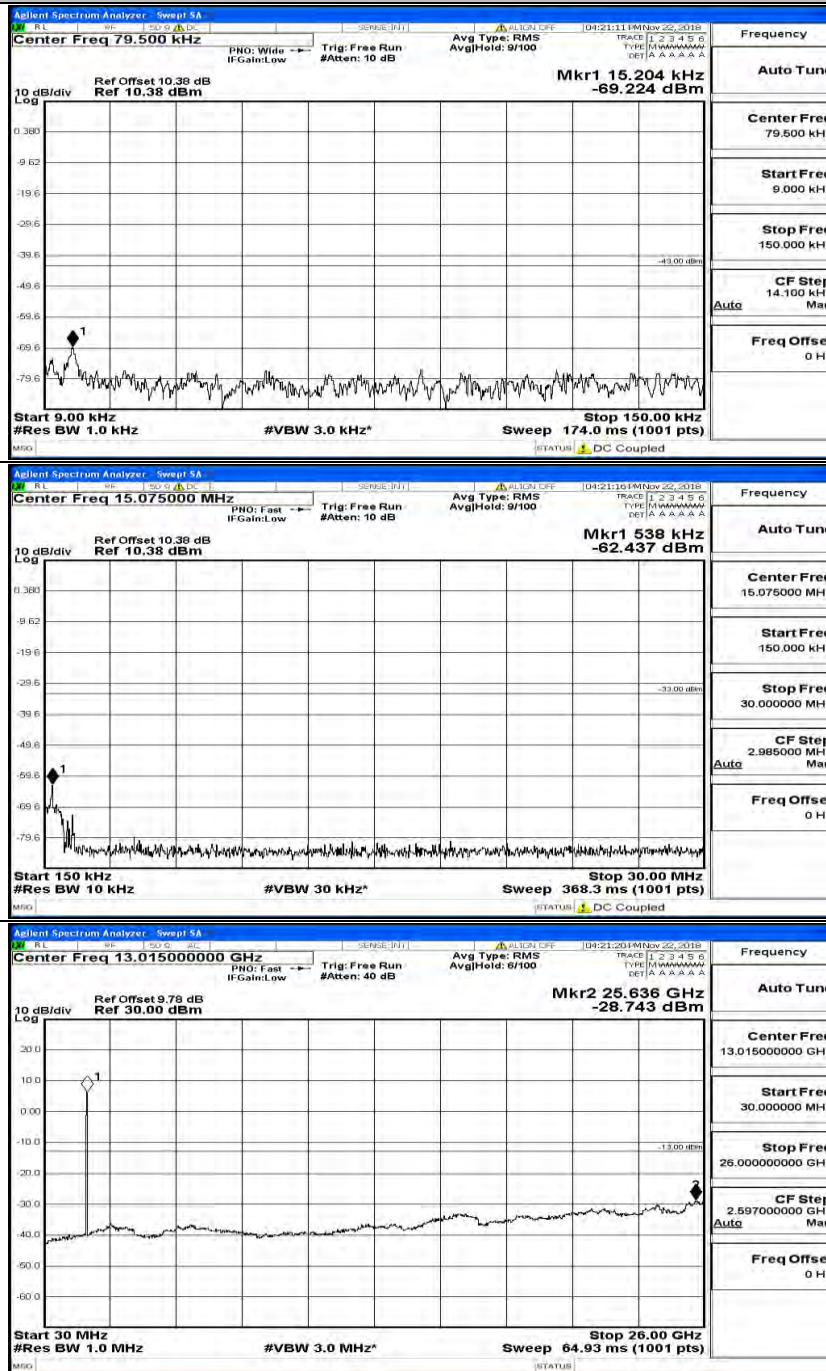


Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

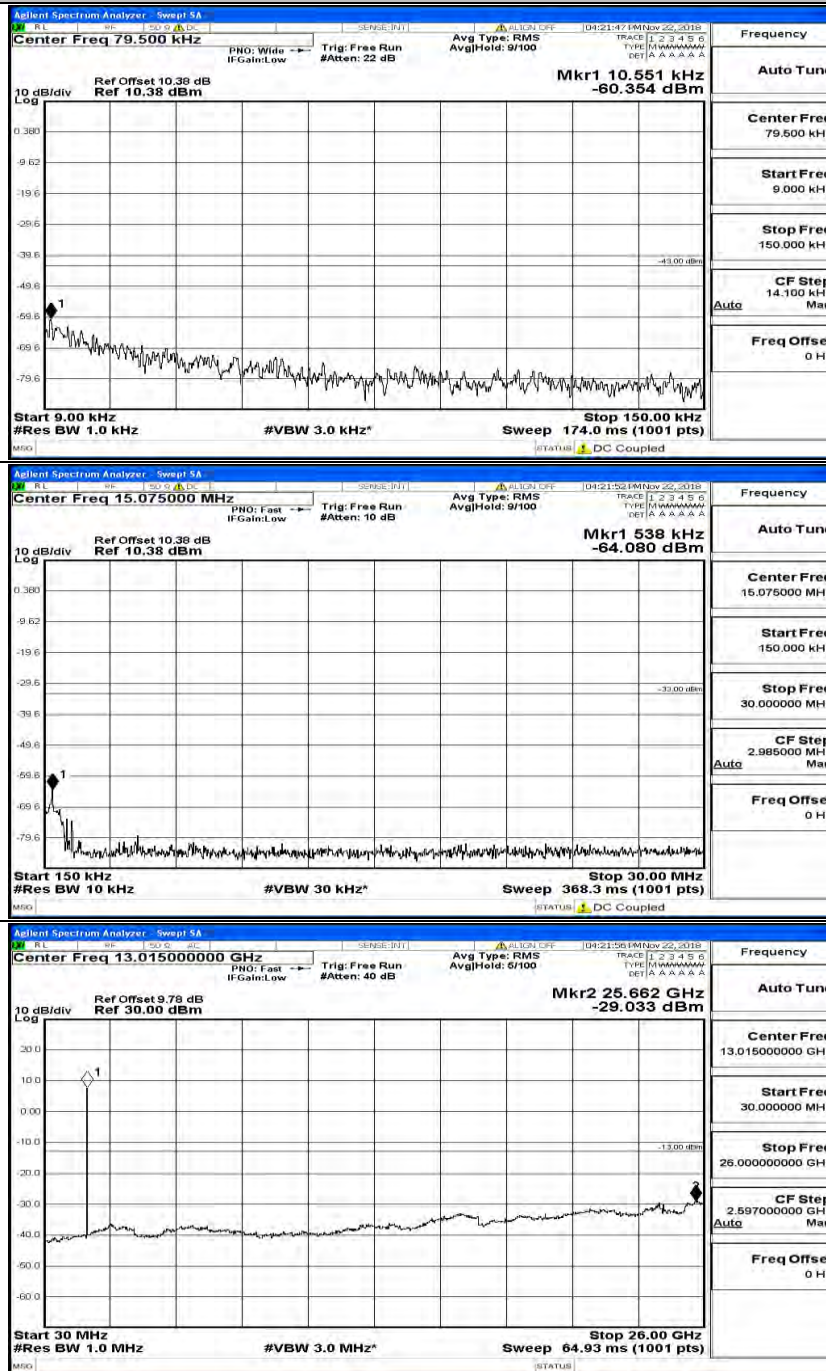


E.5 Conducted Spurious Emission**CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK**

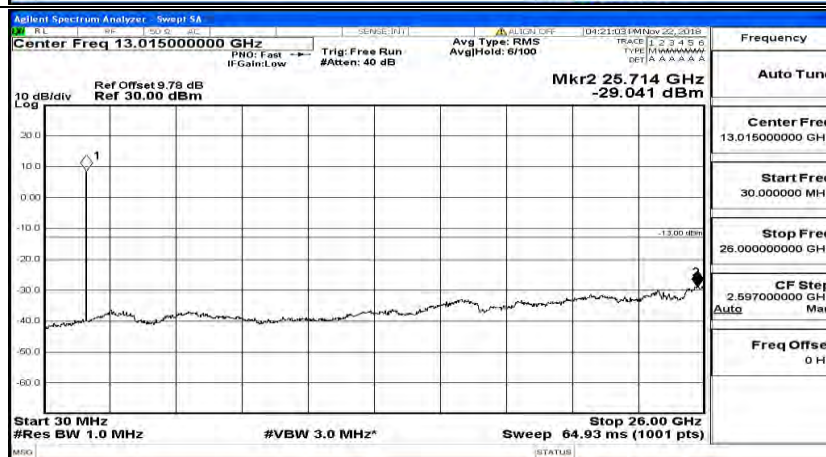
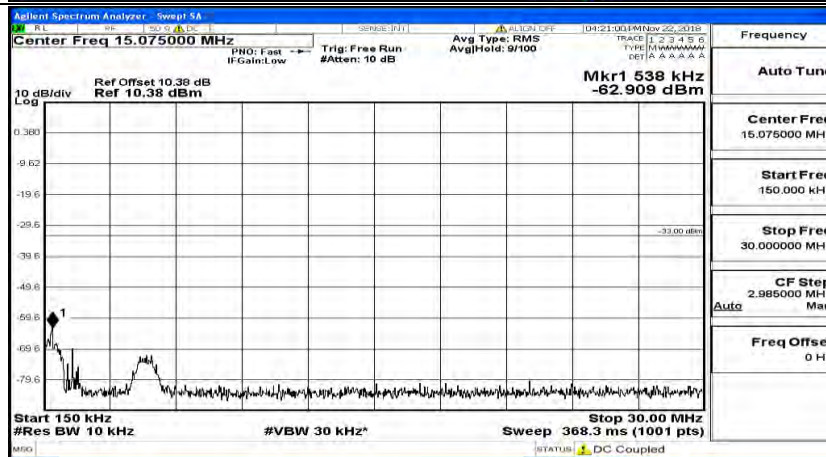
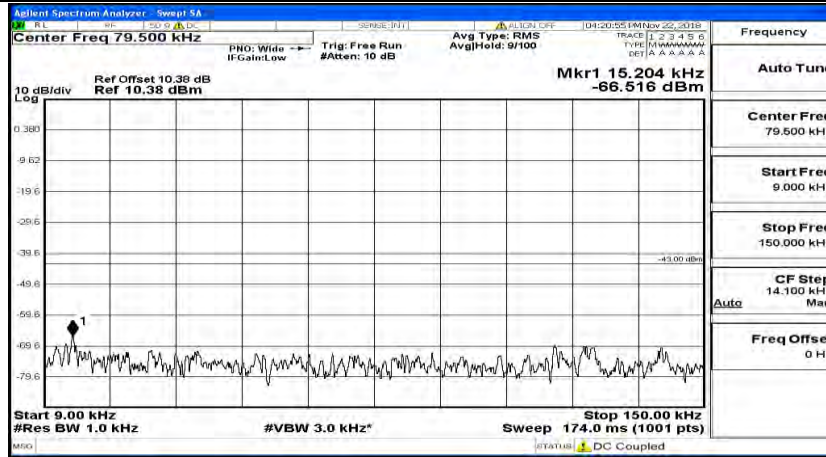
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



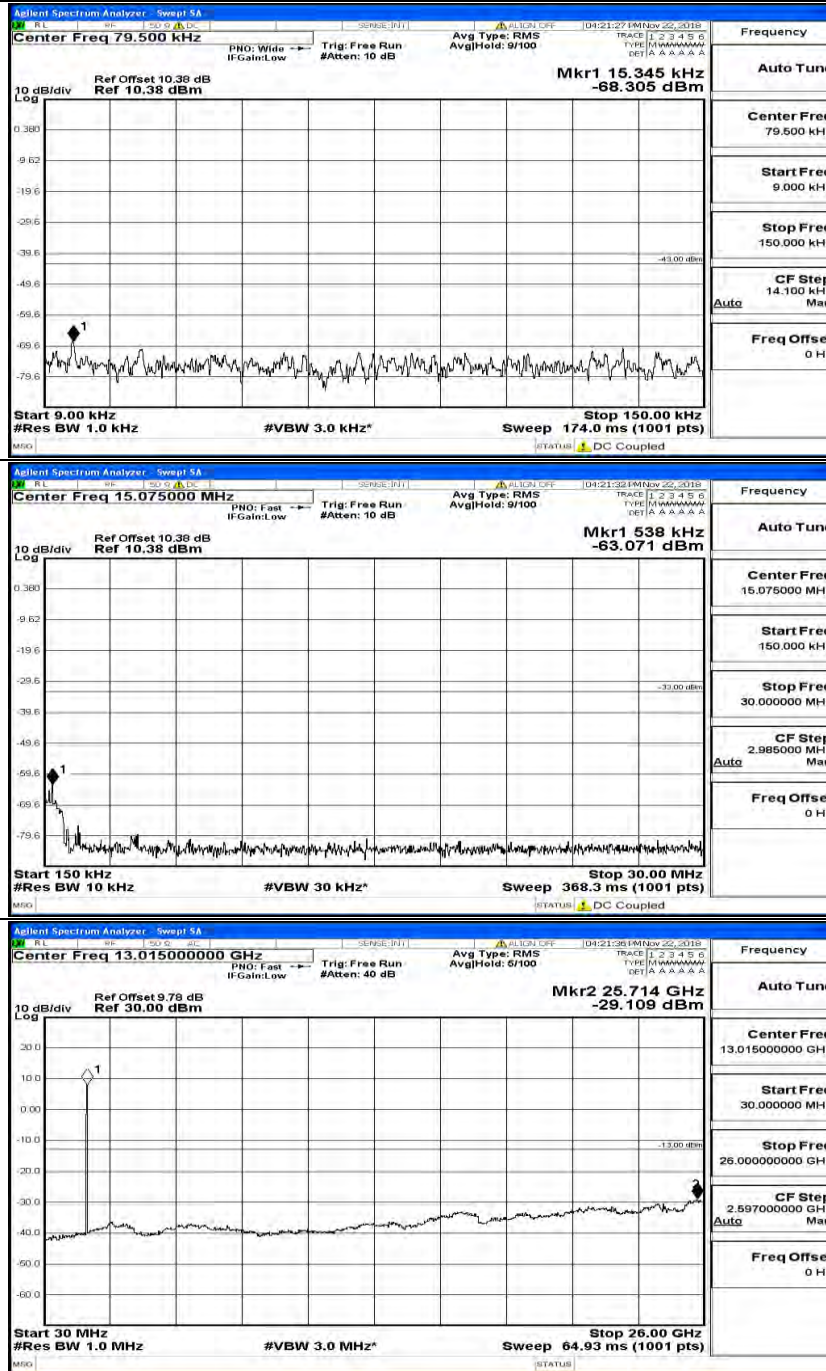
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



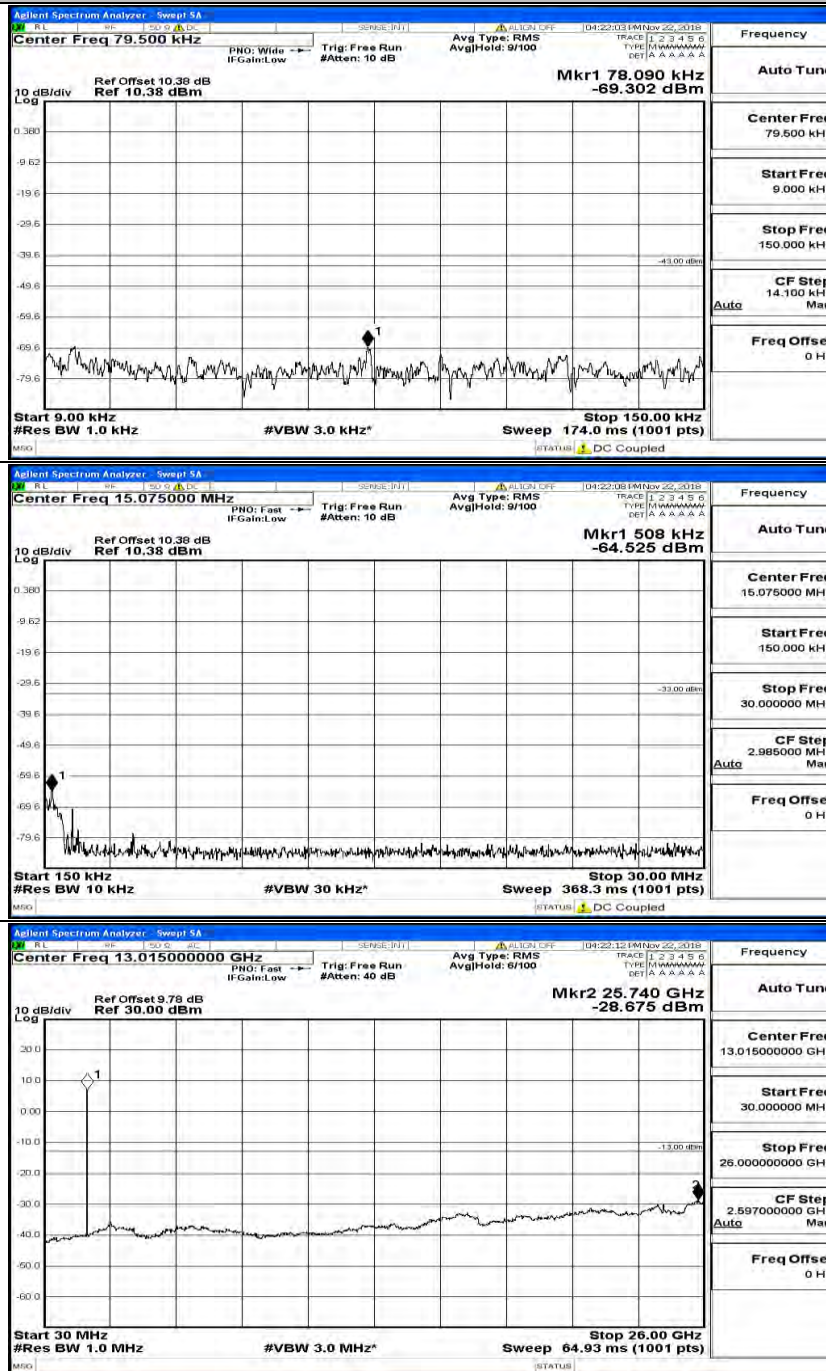
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



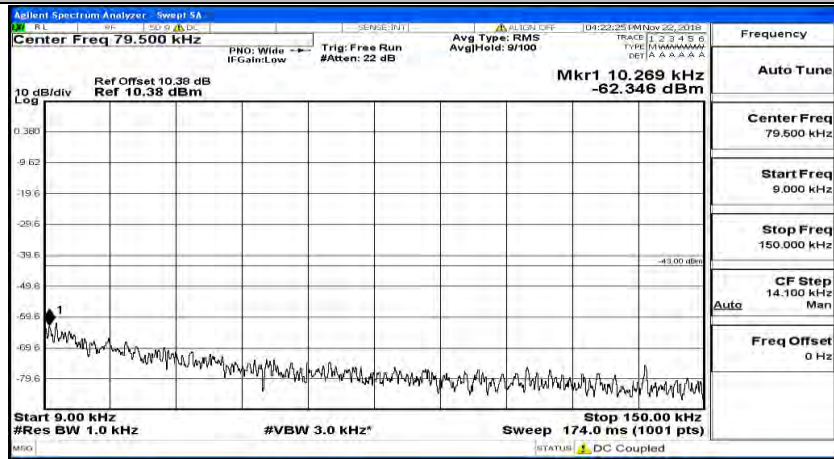
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



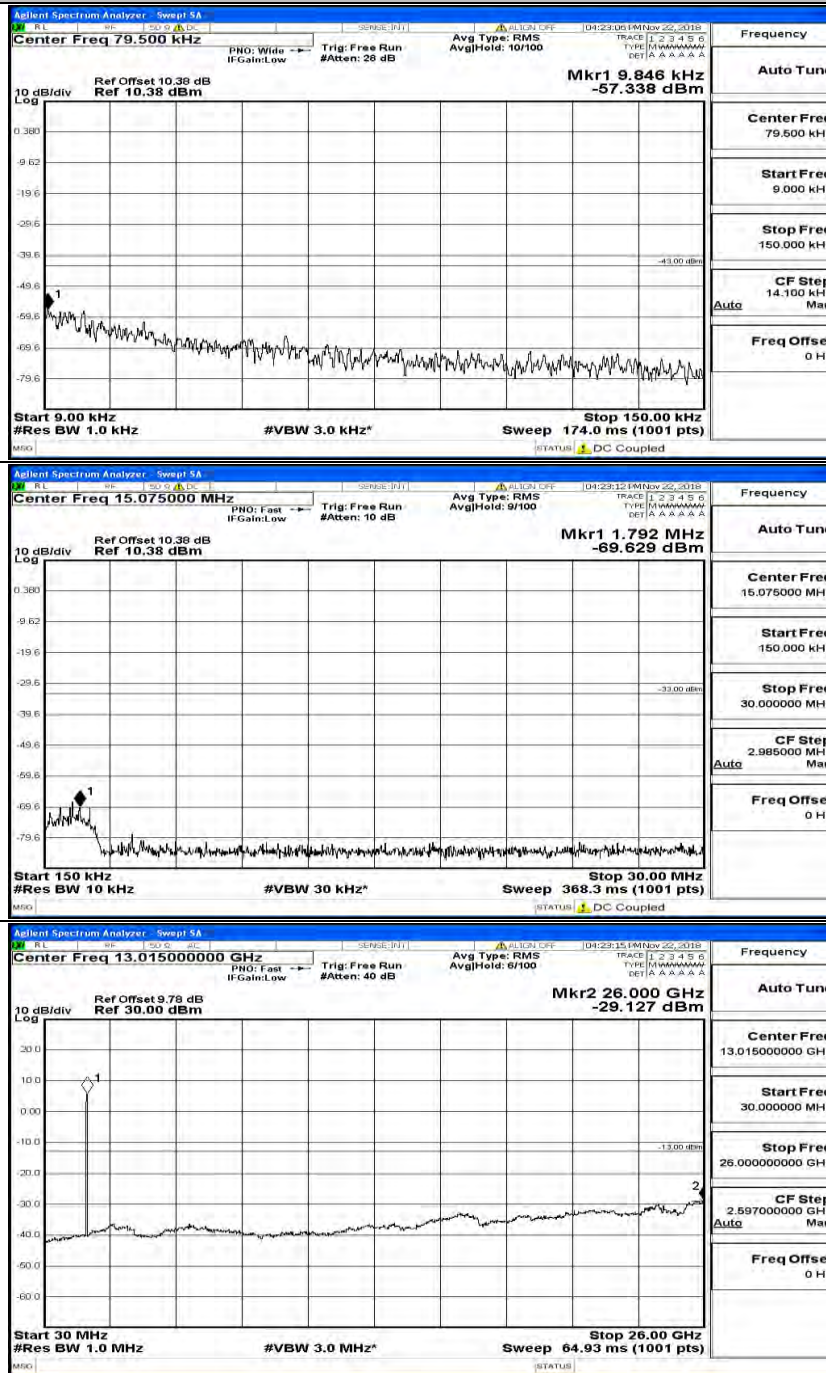
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



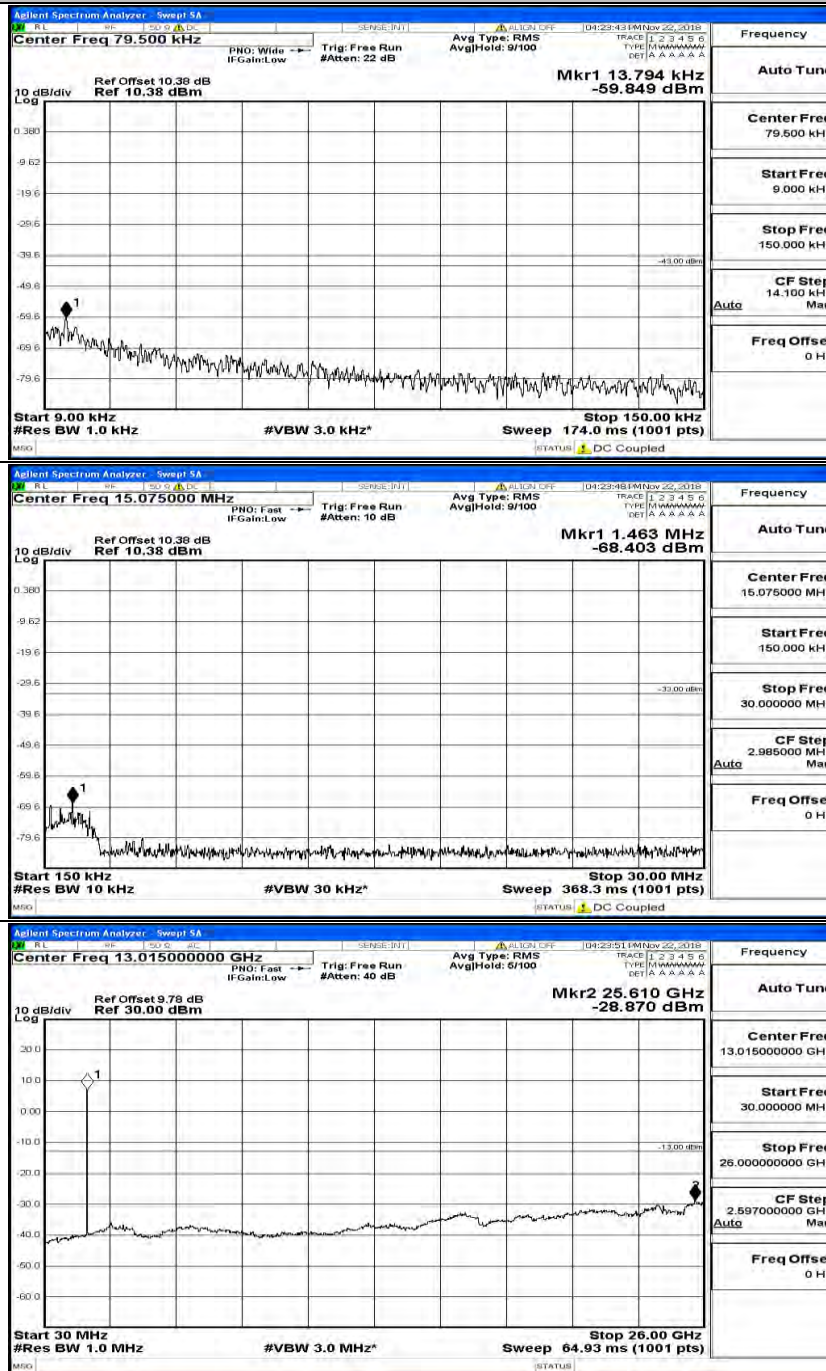
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



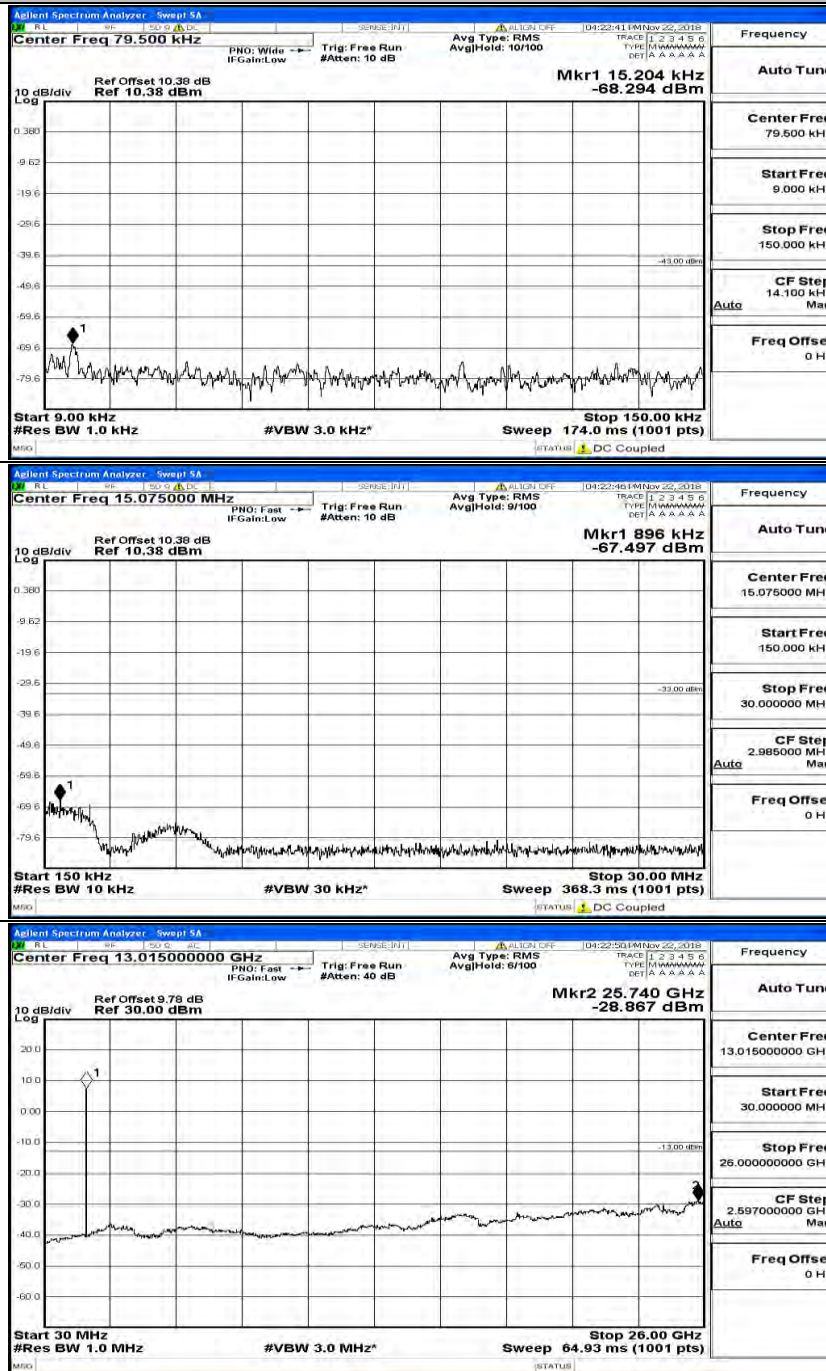
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



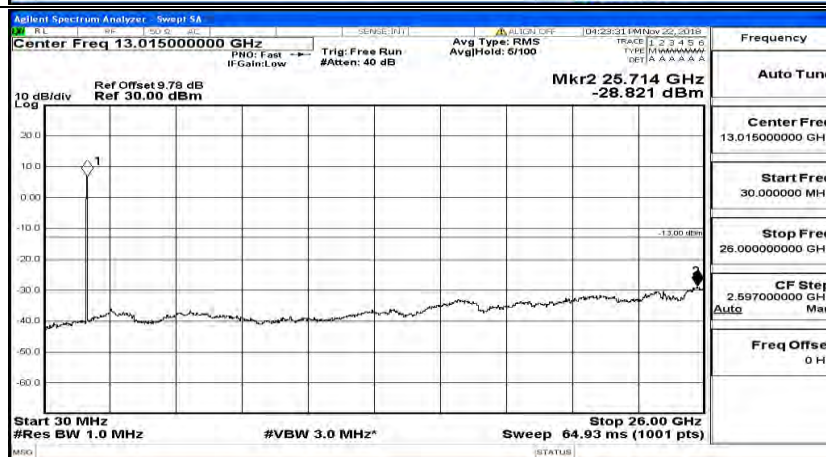
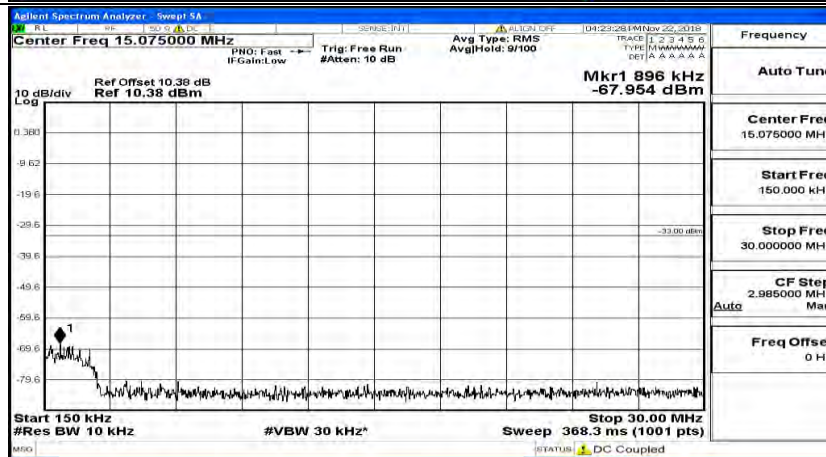
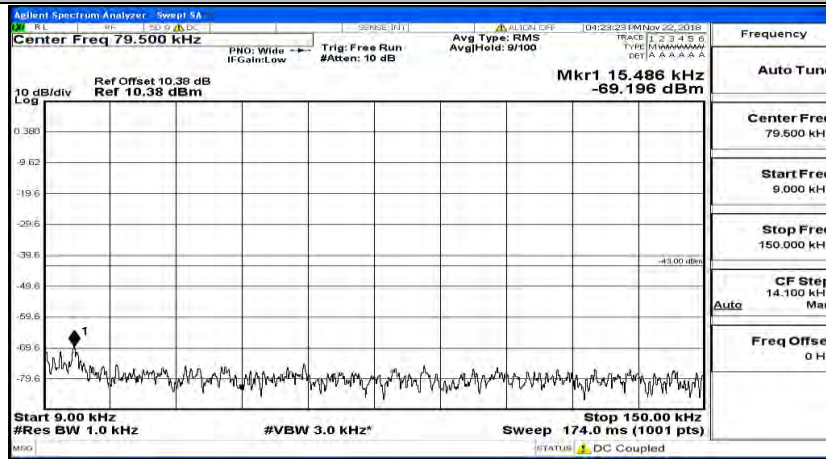
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



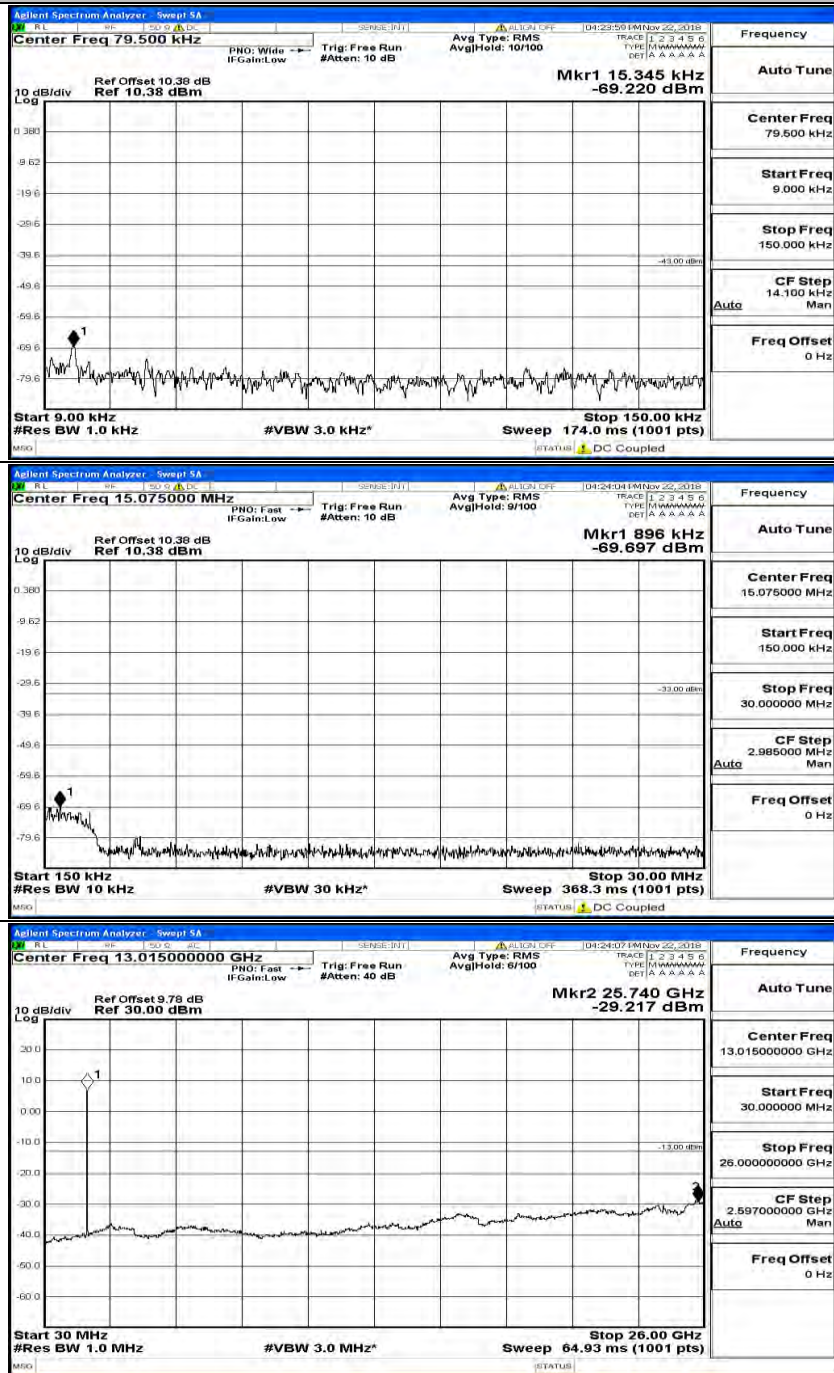
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



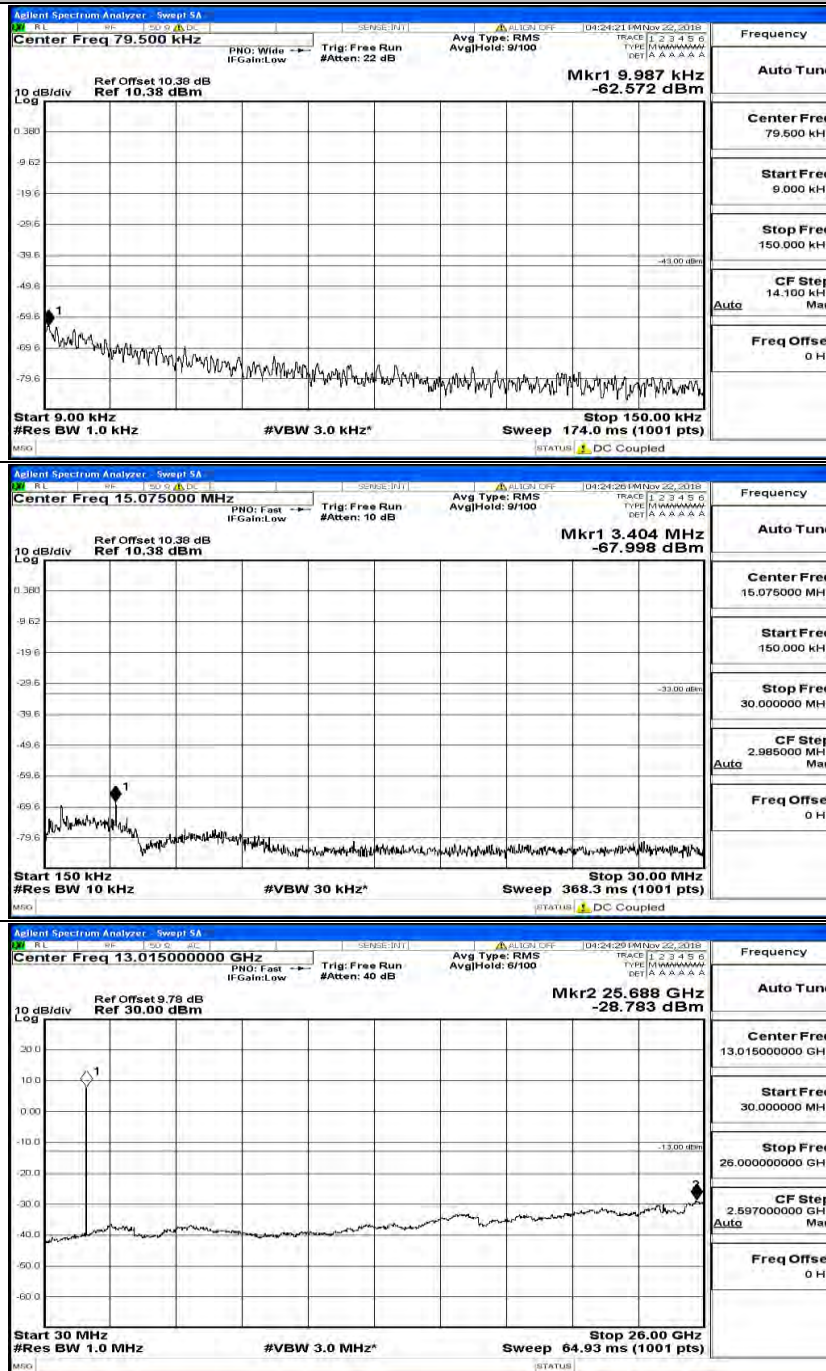
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



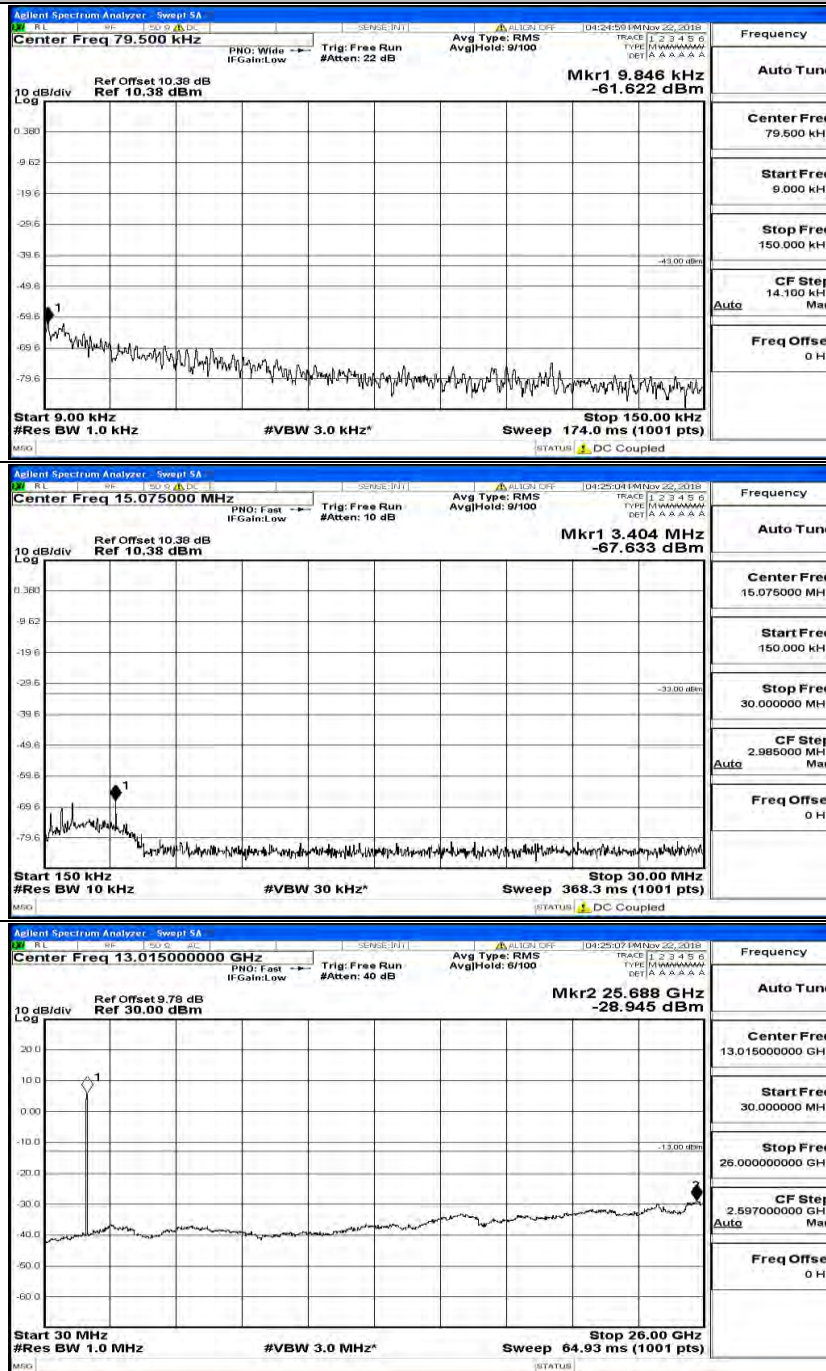
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



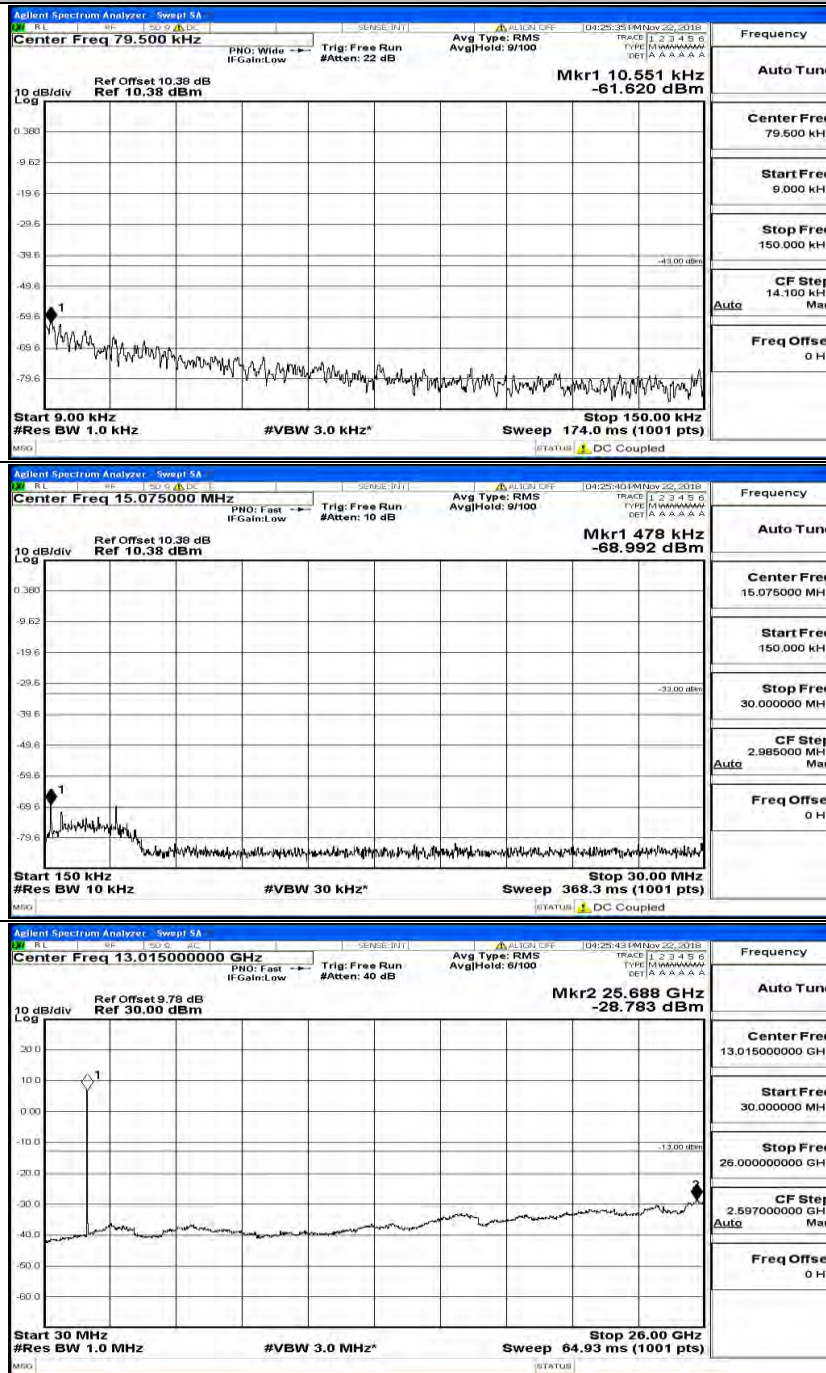
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



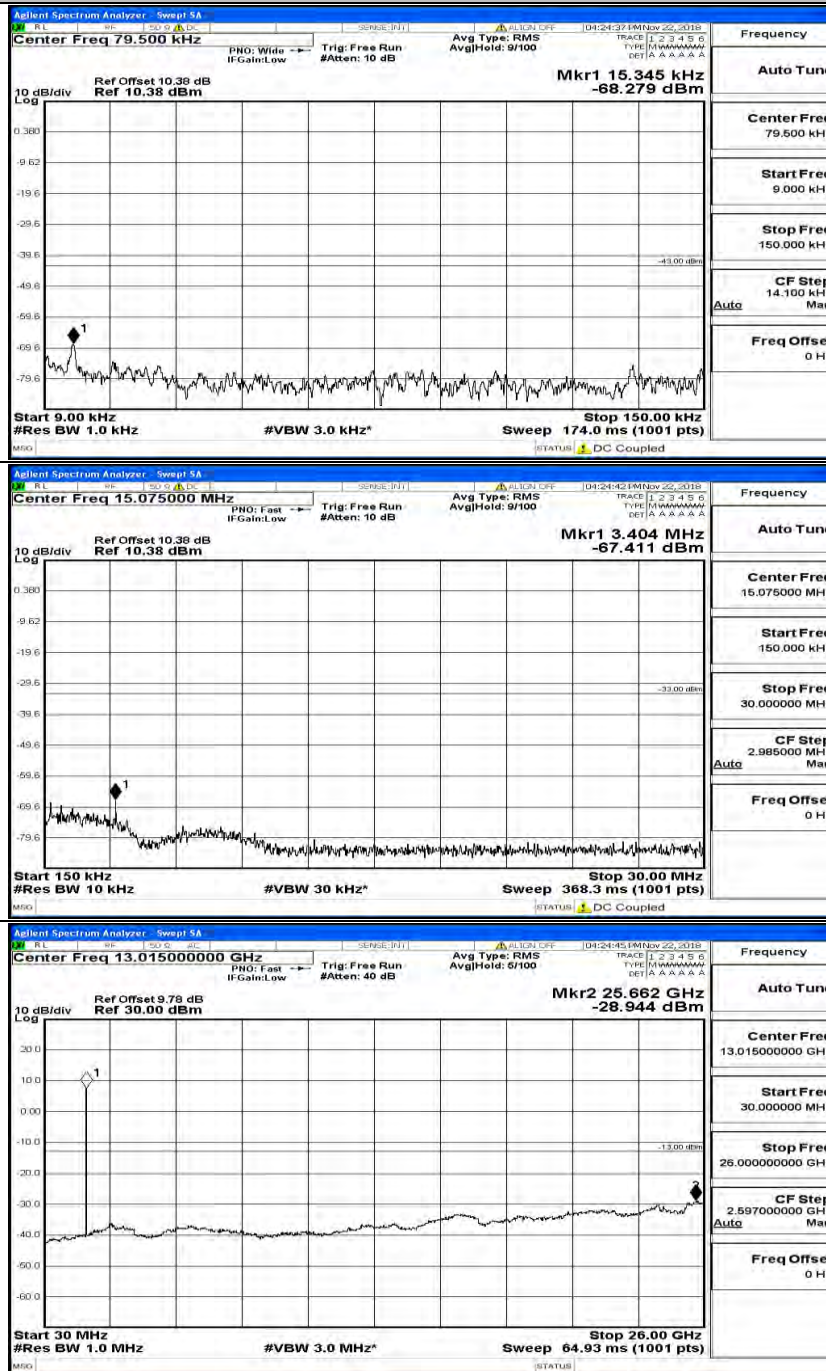
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



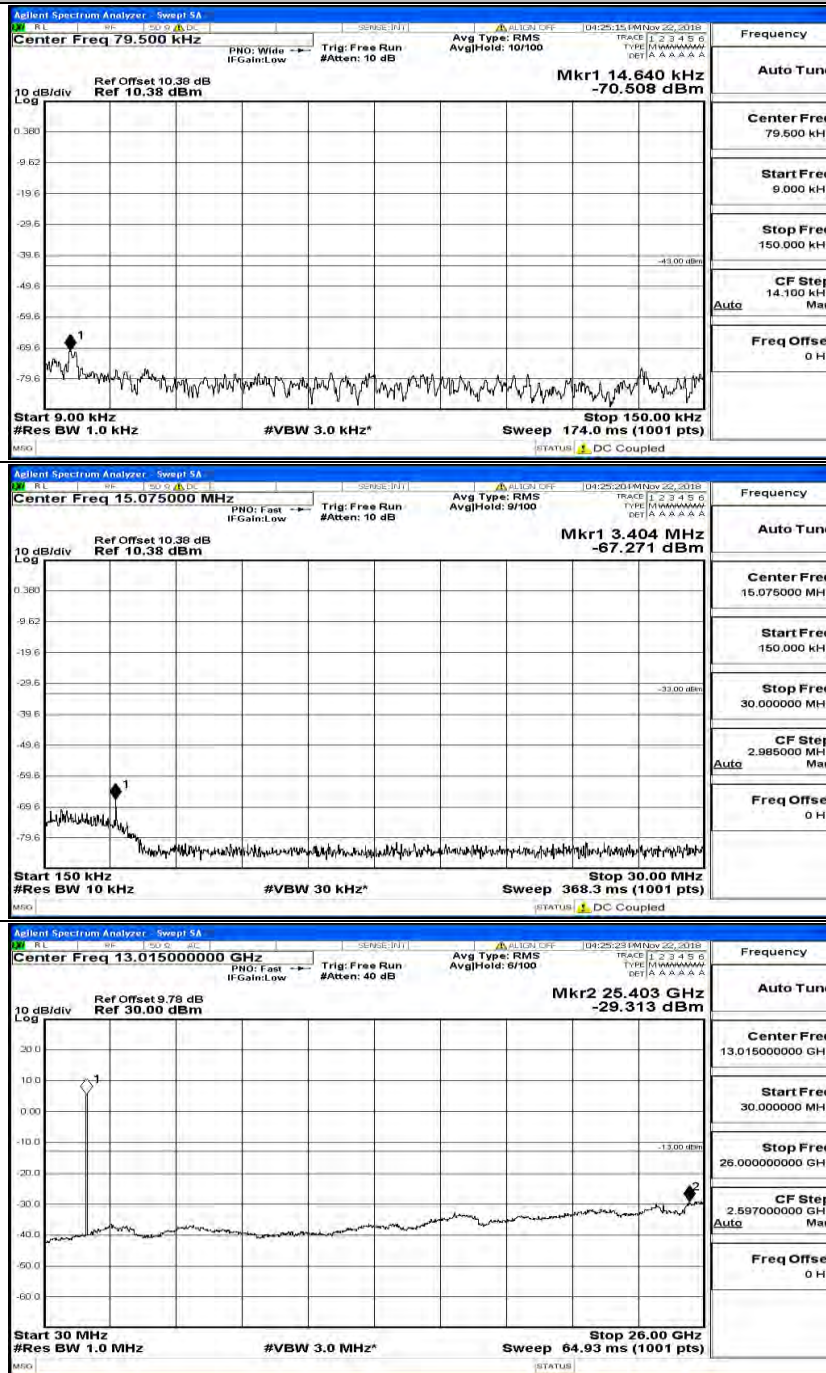
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



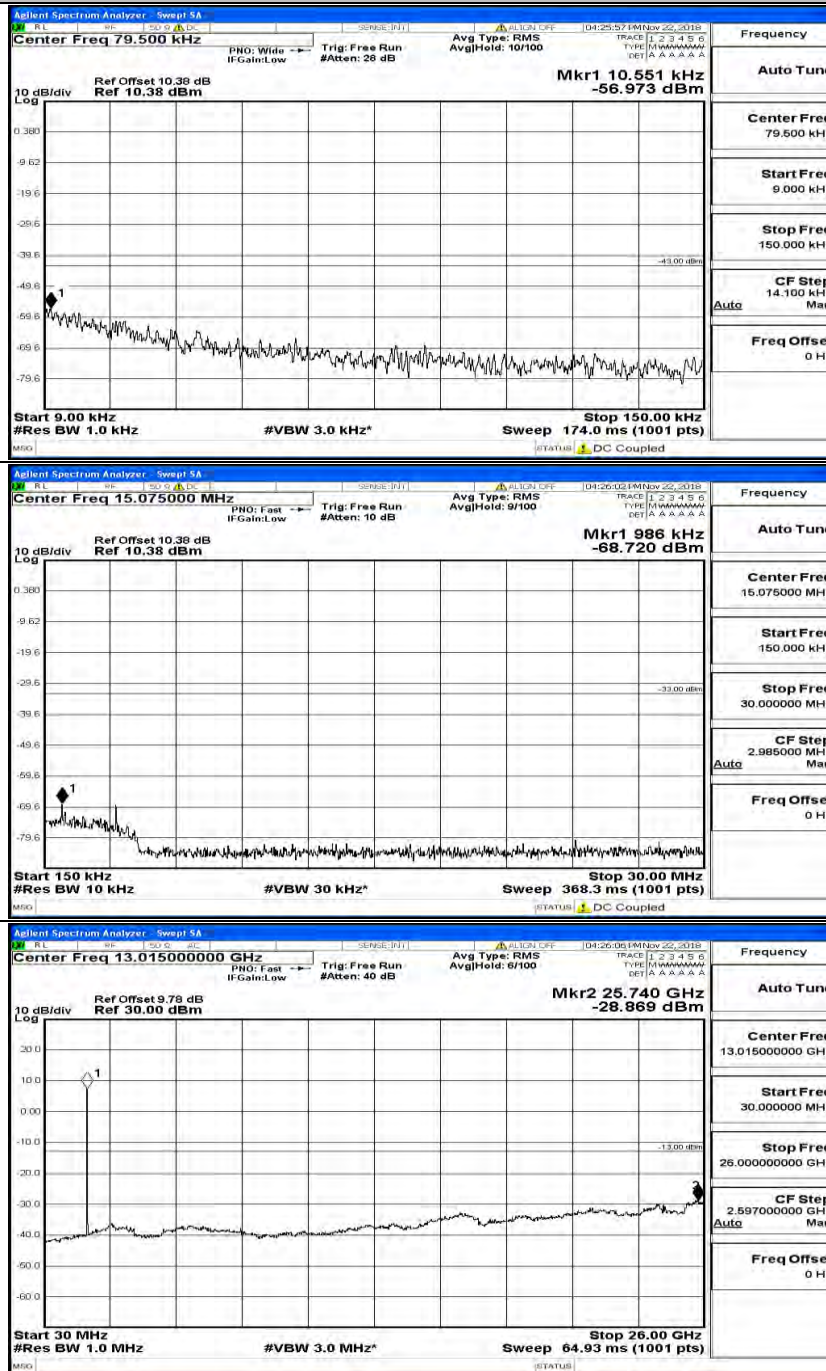
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



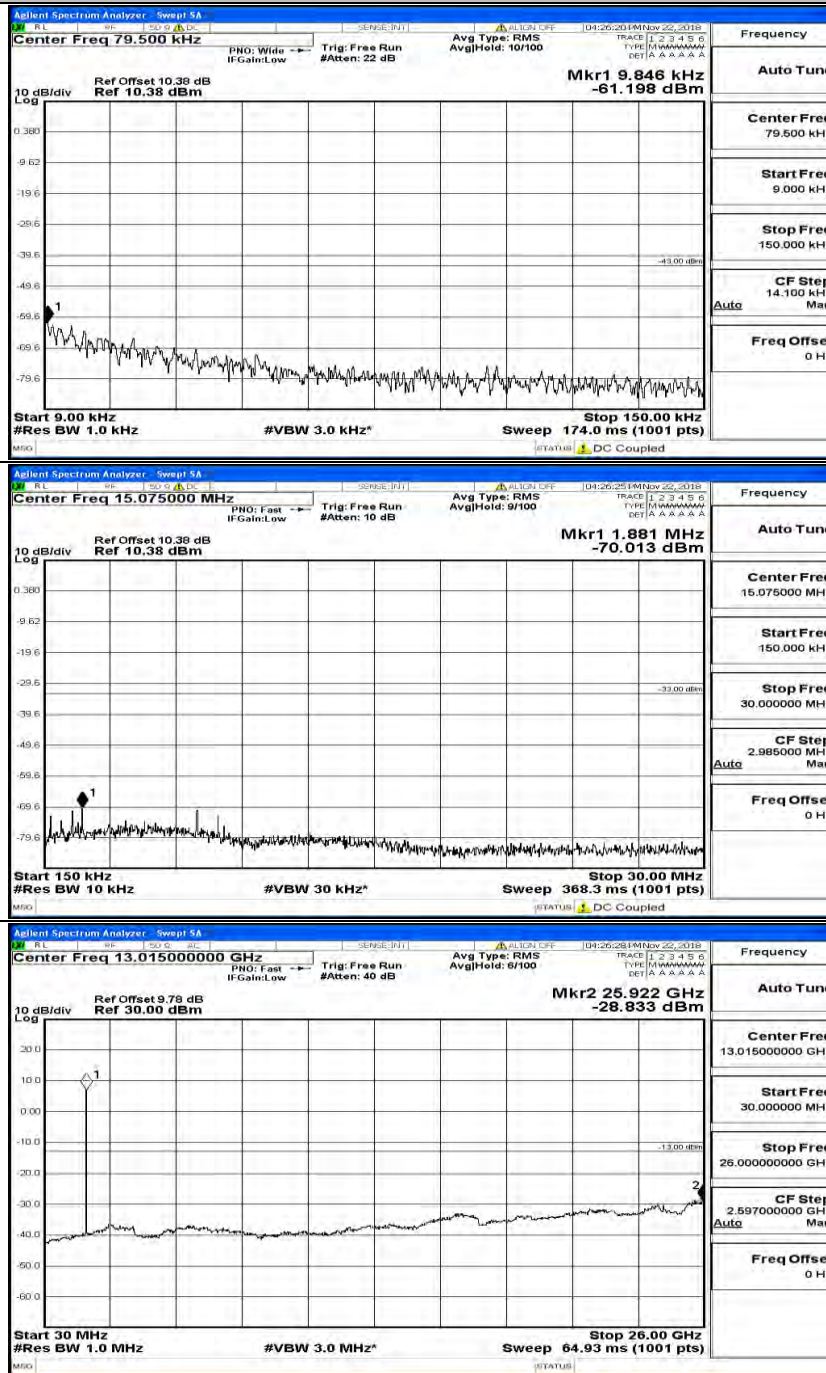
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



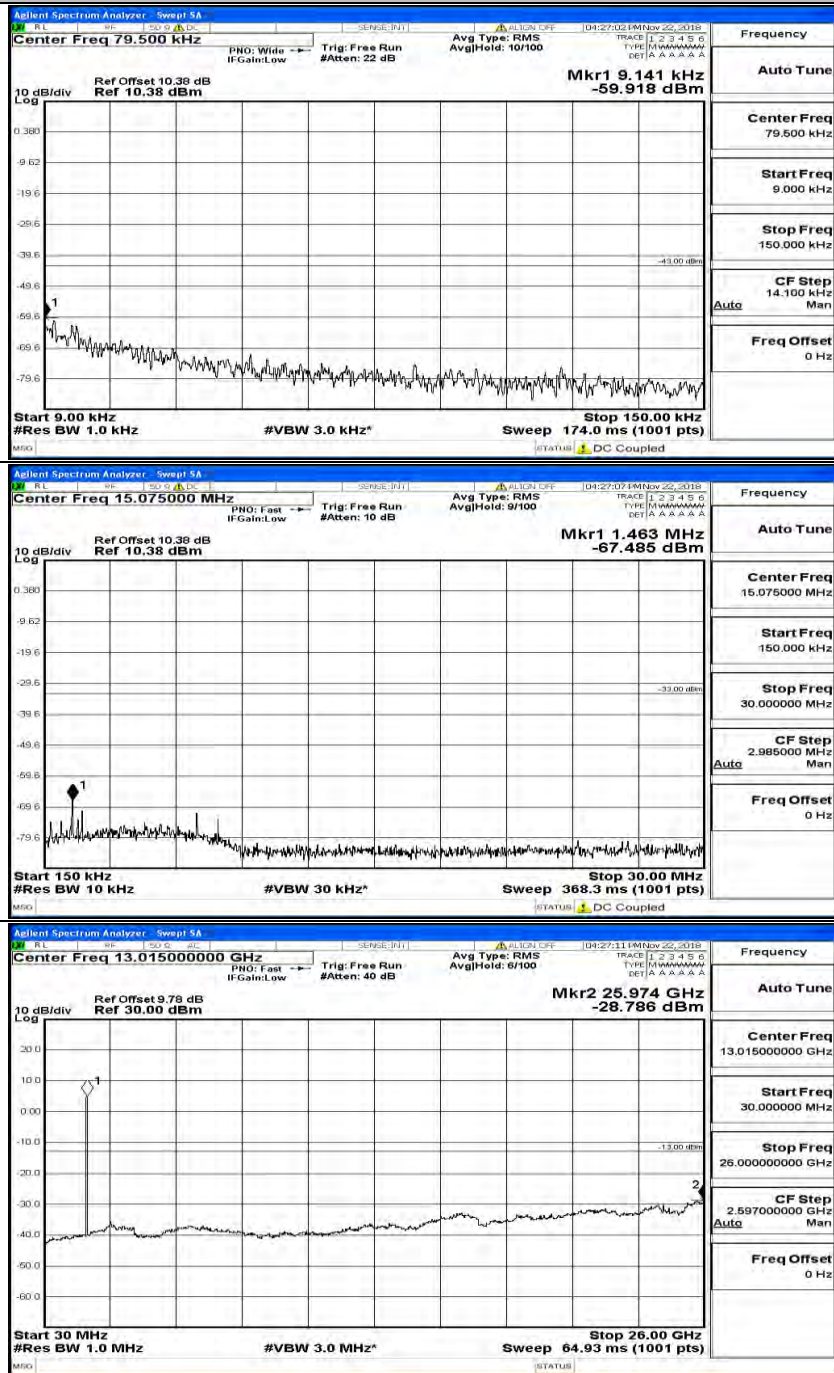
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



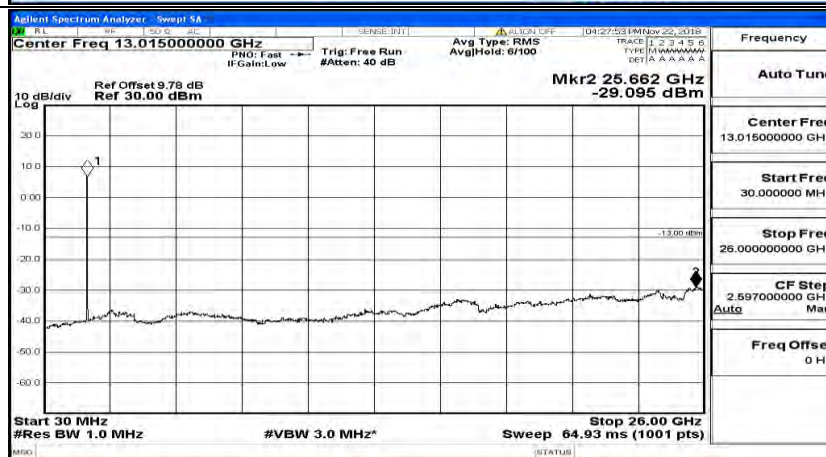
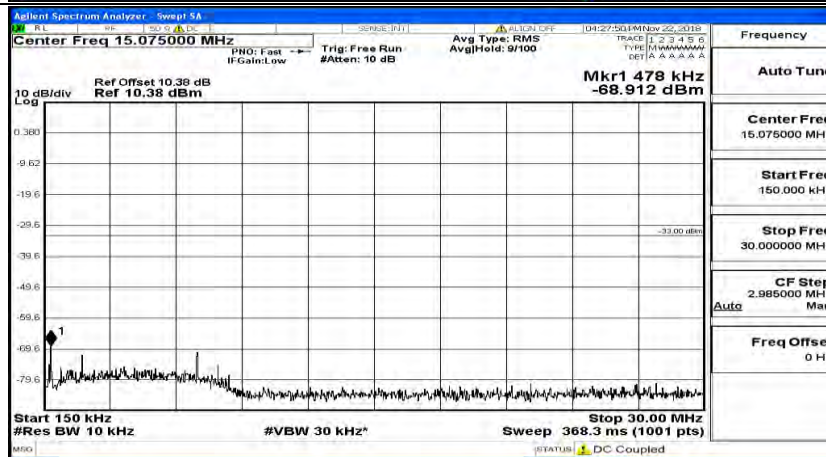
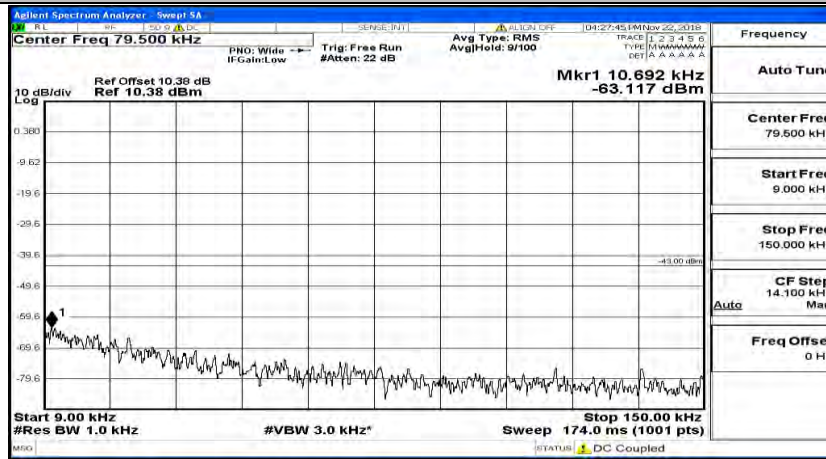
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



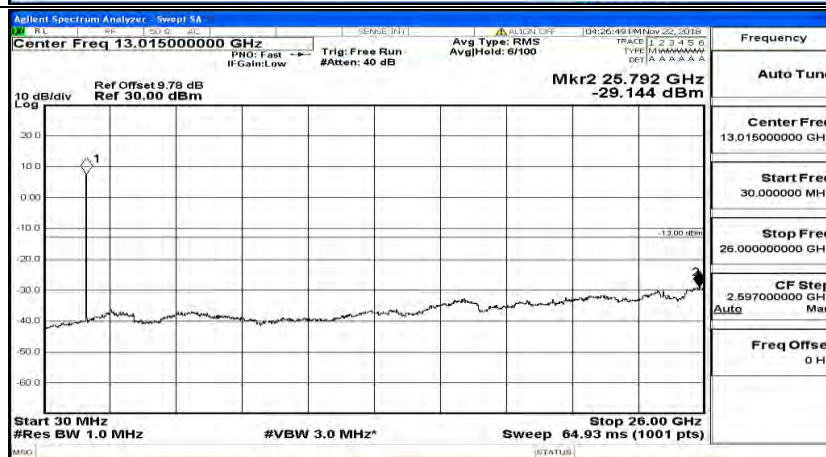
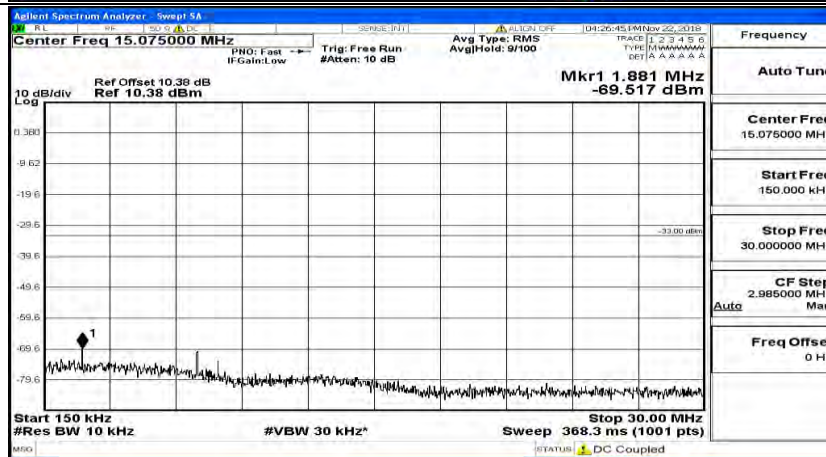
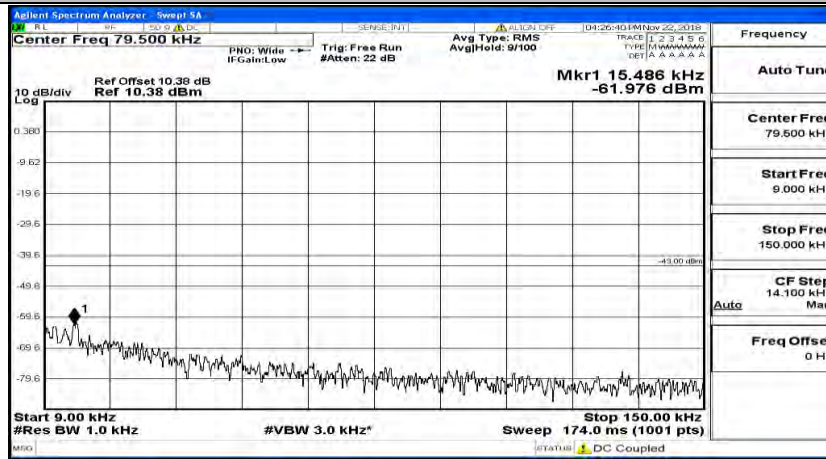
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



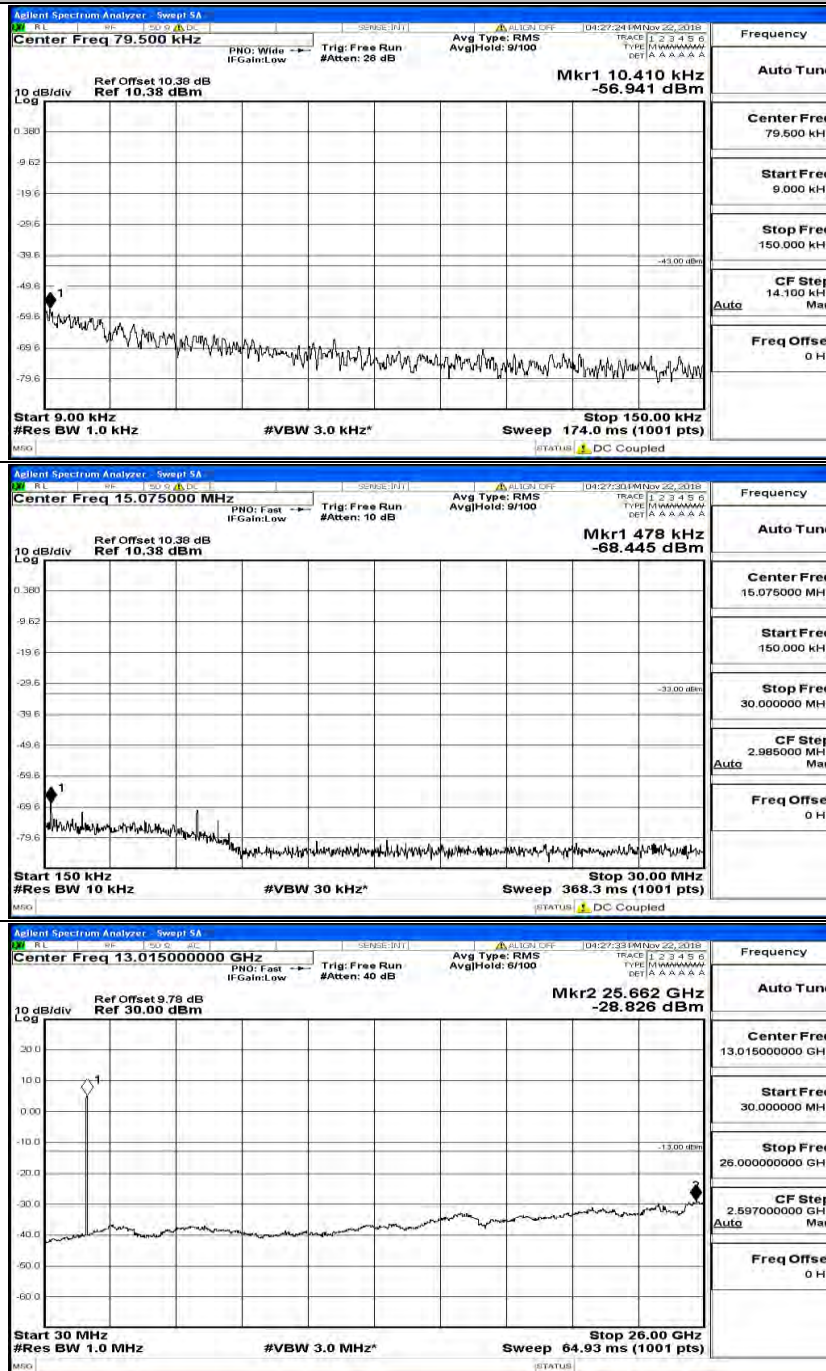
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



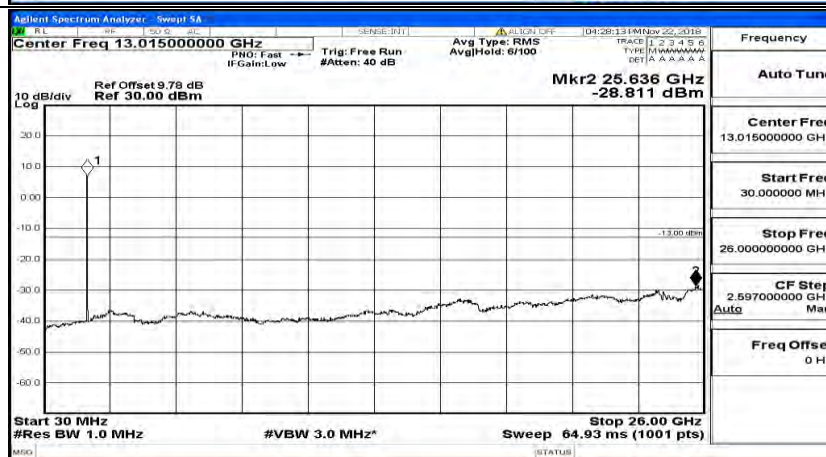
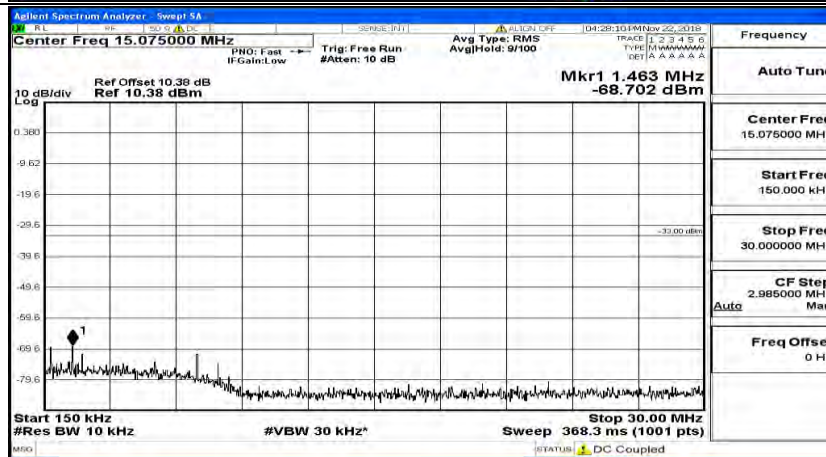
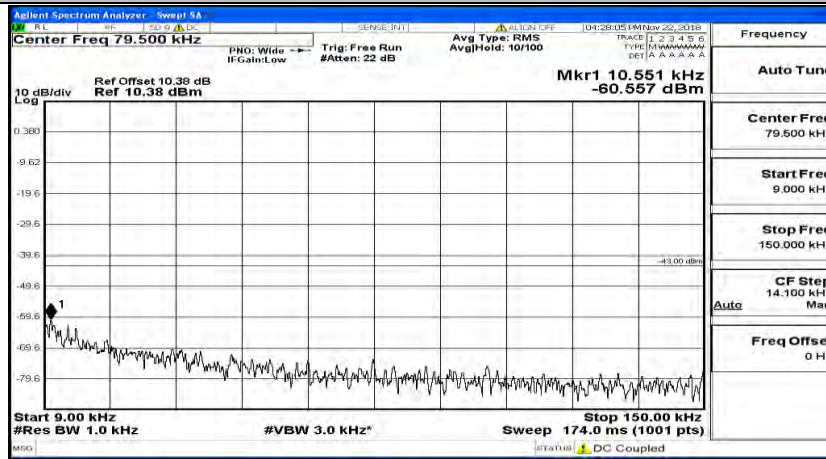
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



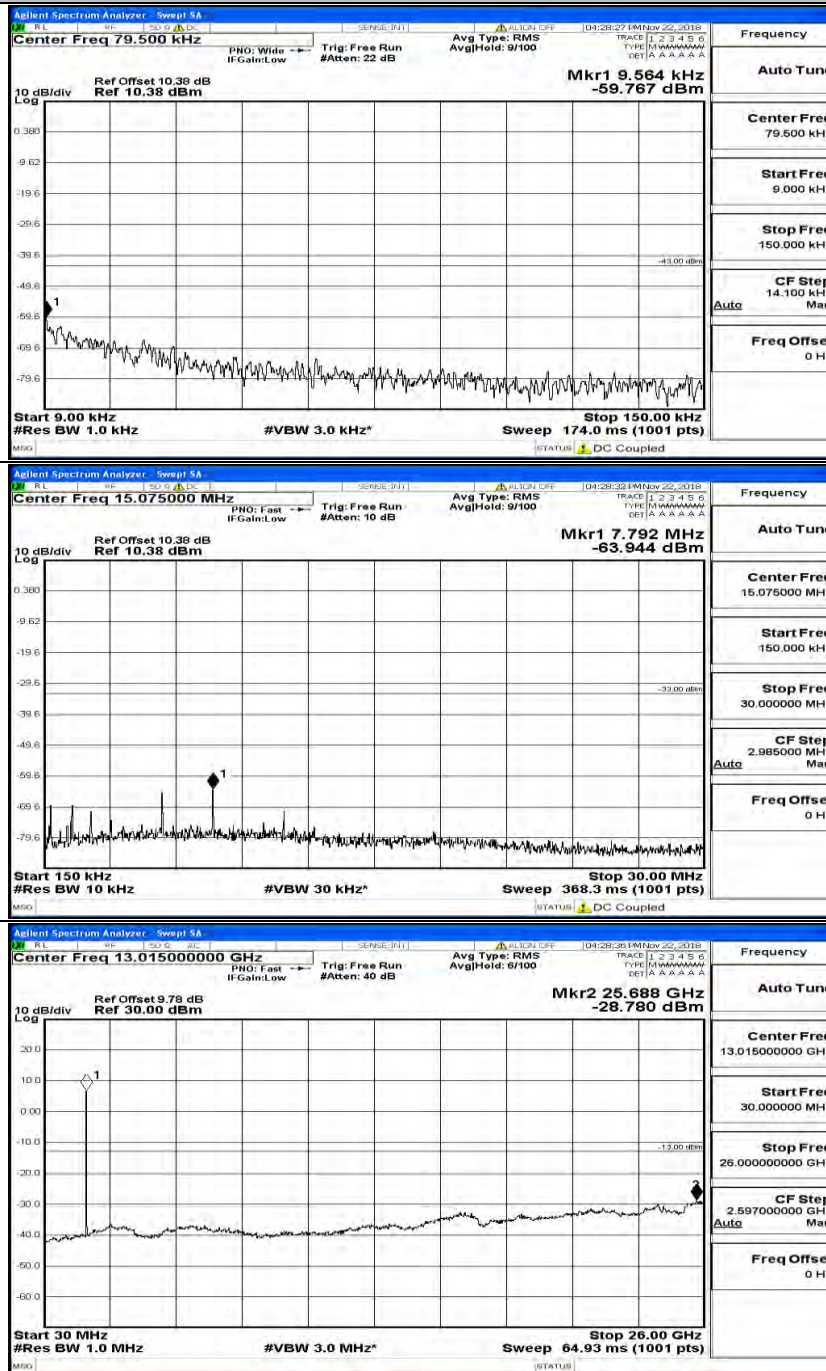
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



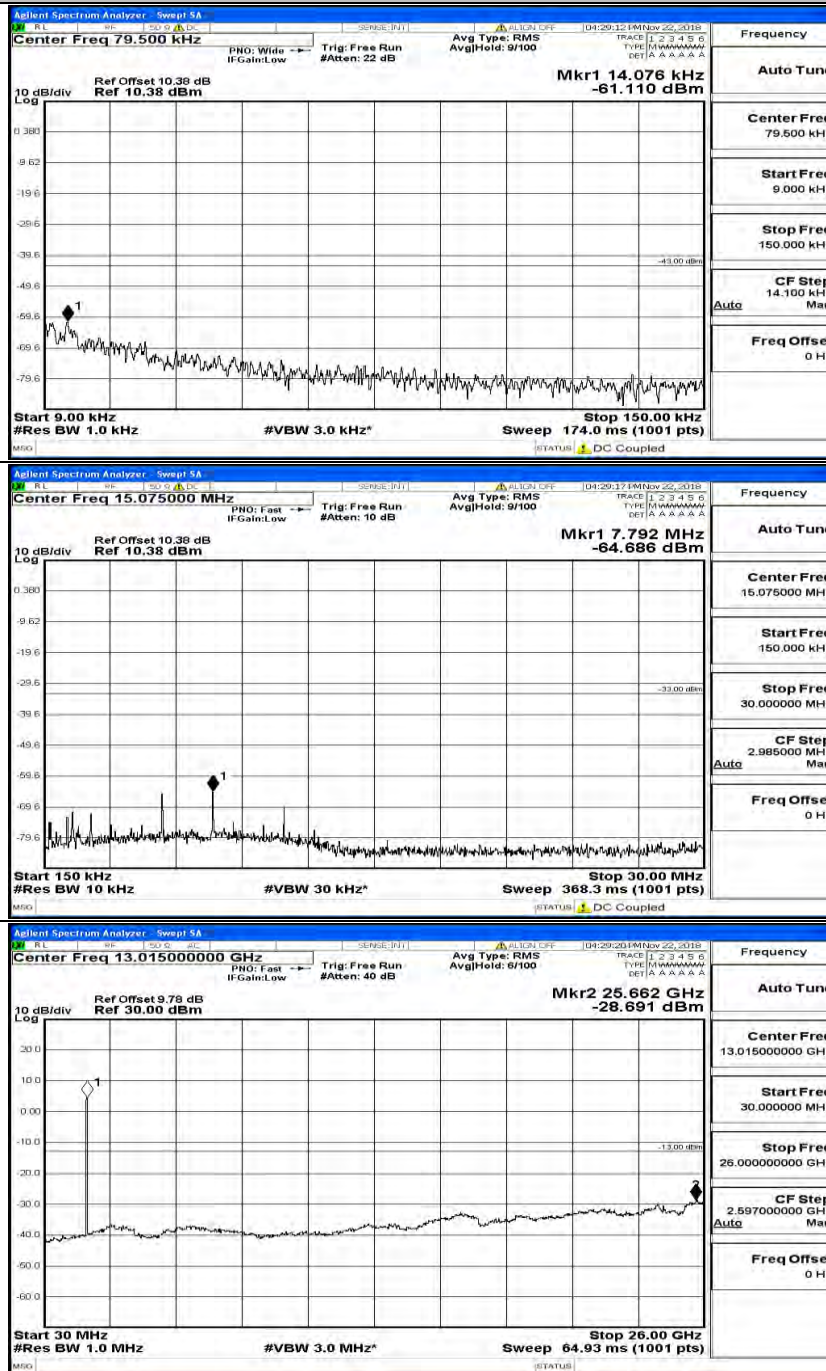
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



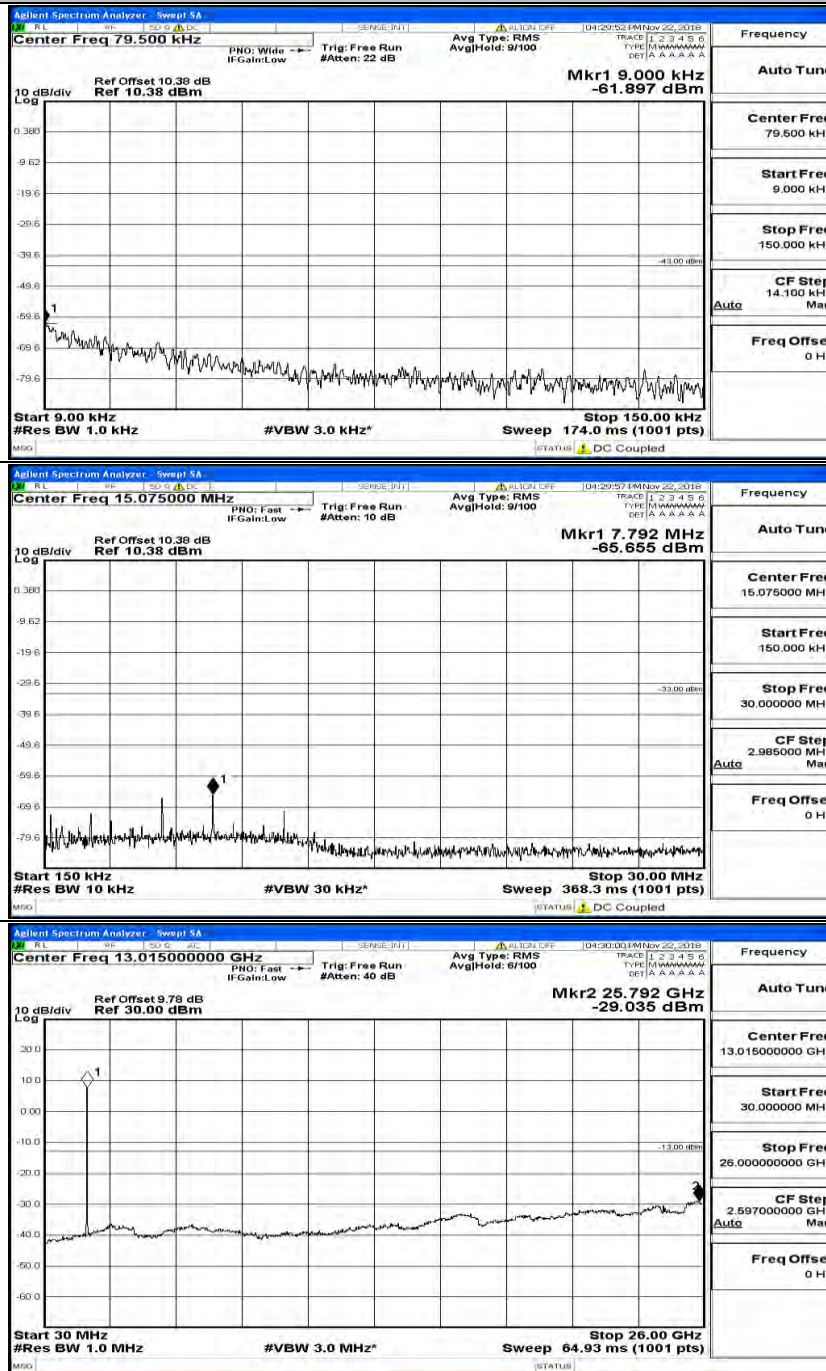
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



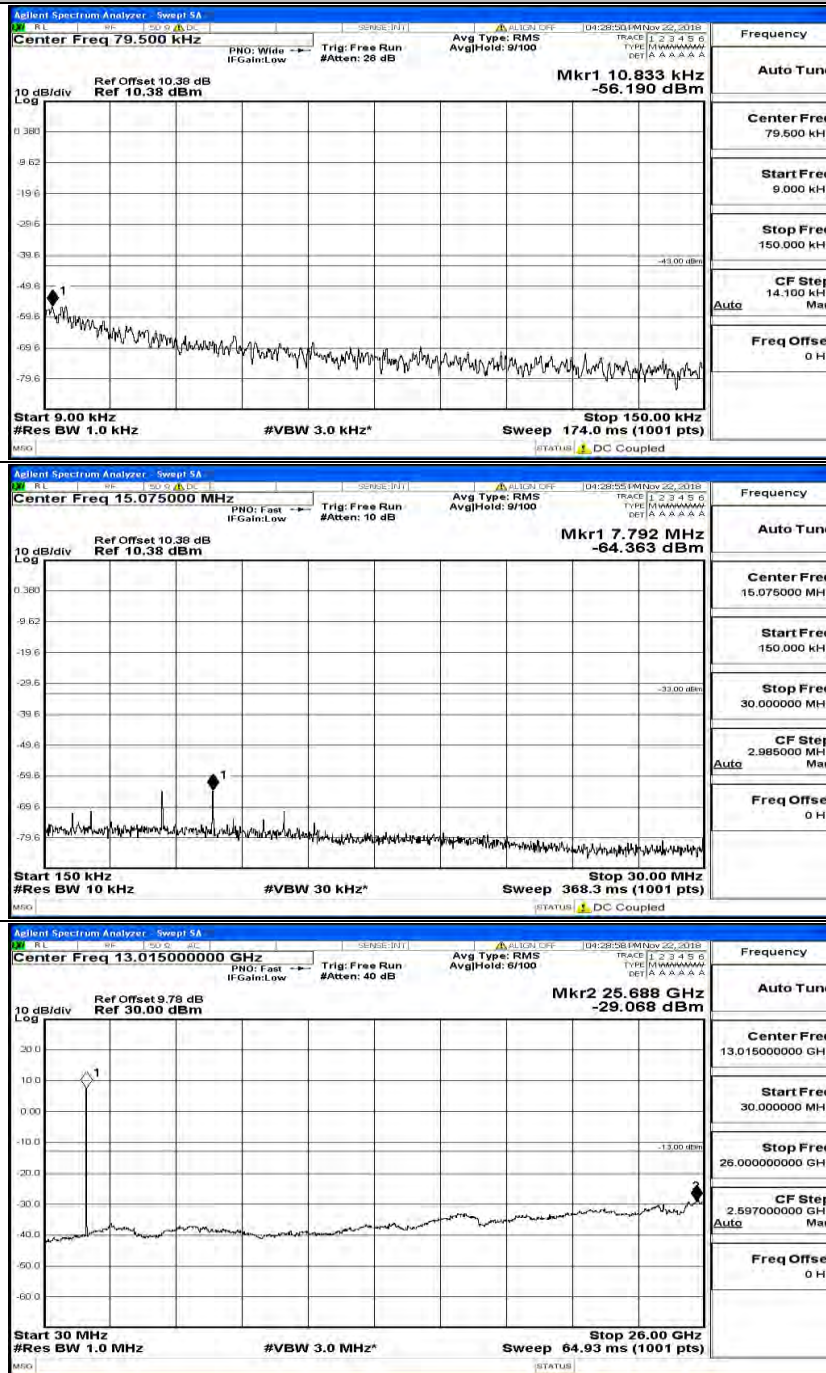
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



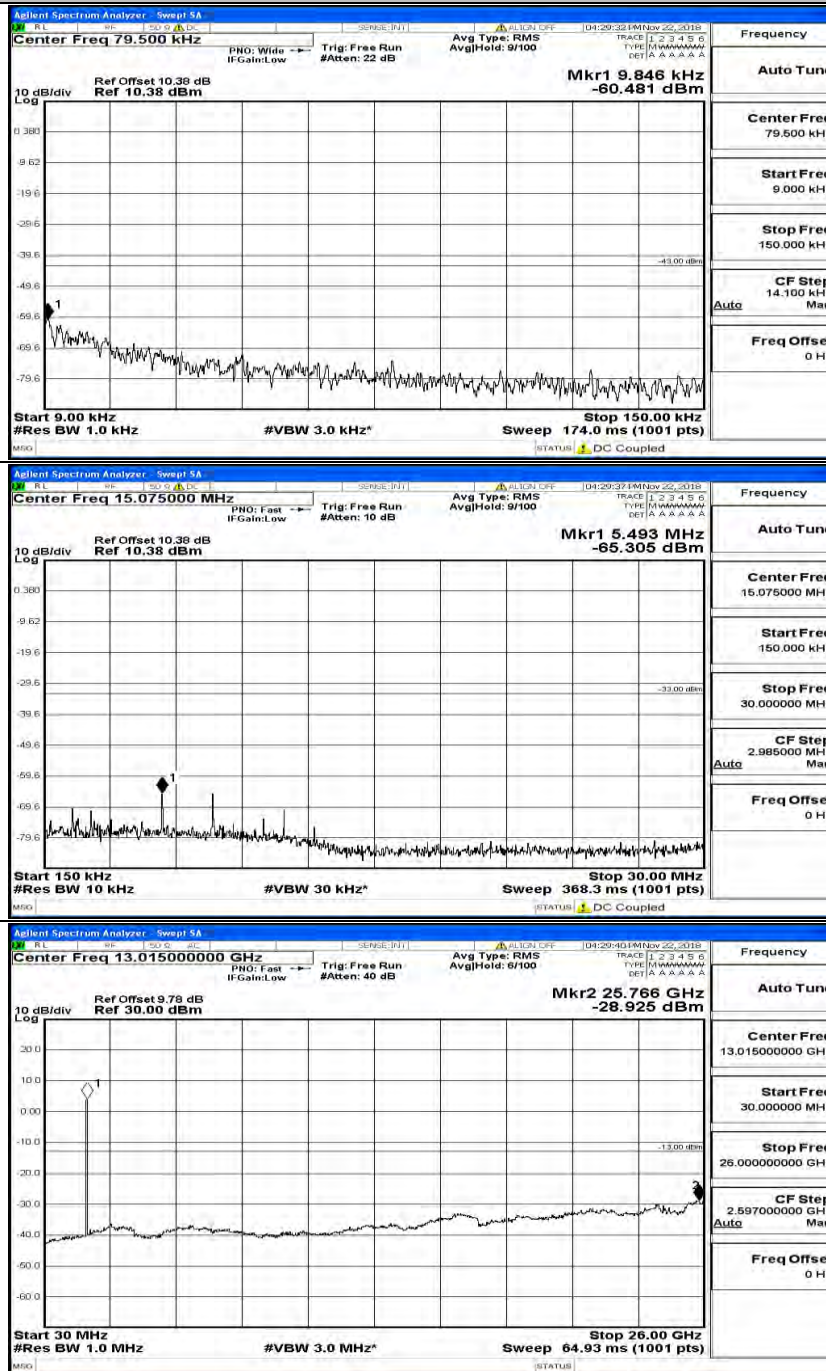
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



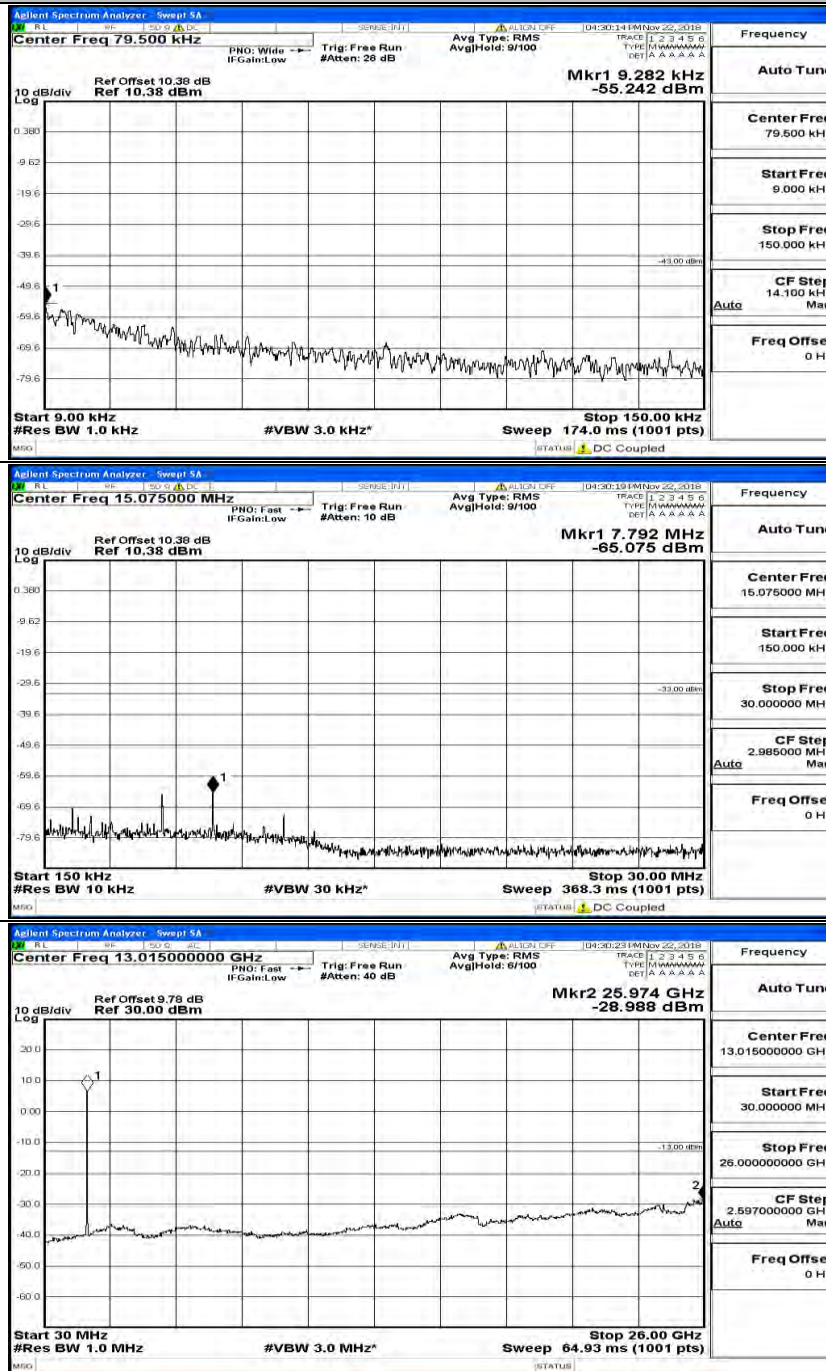
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



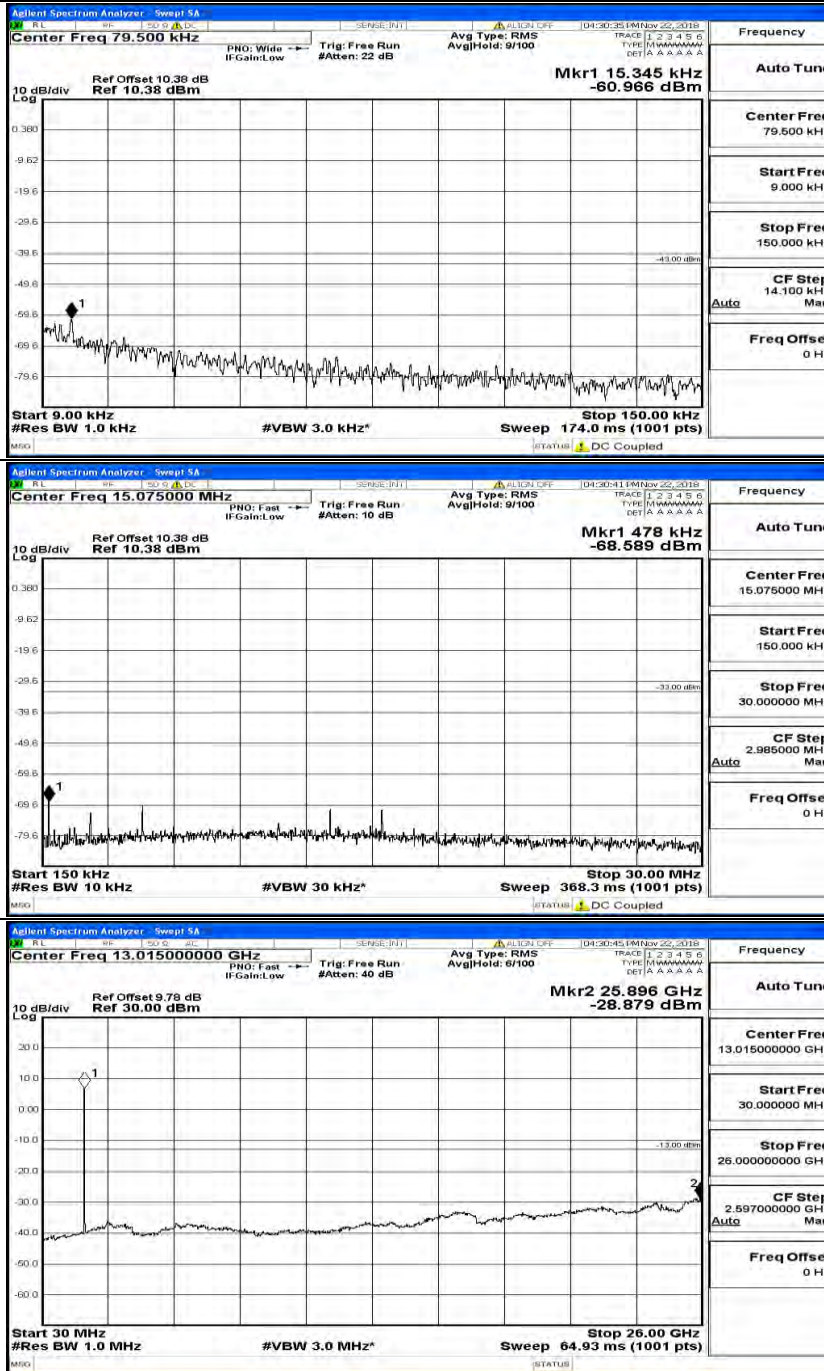
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



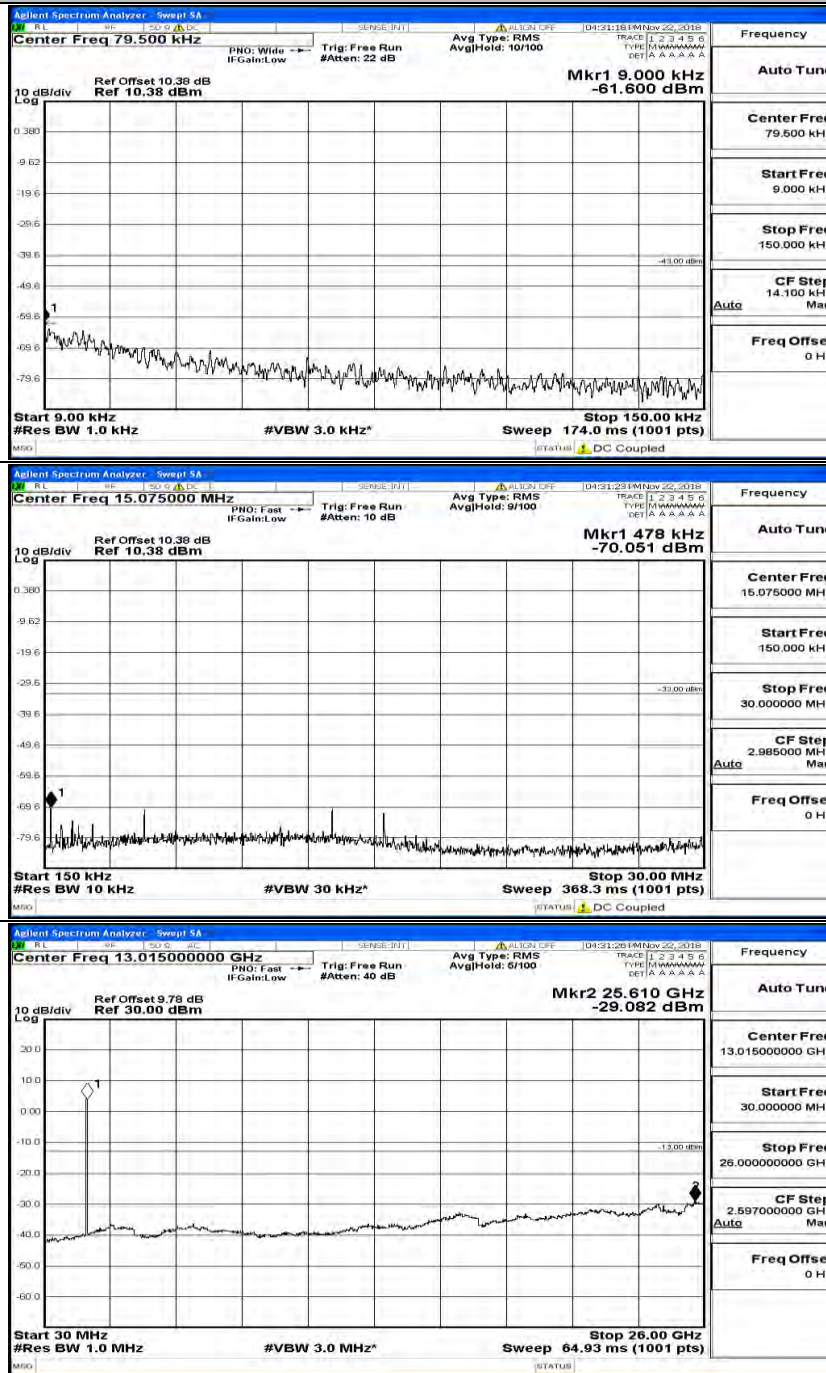
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



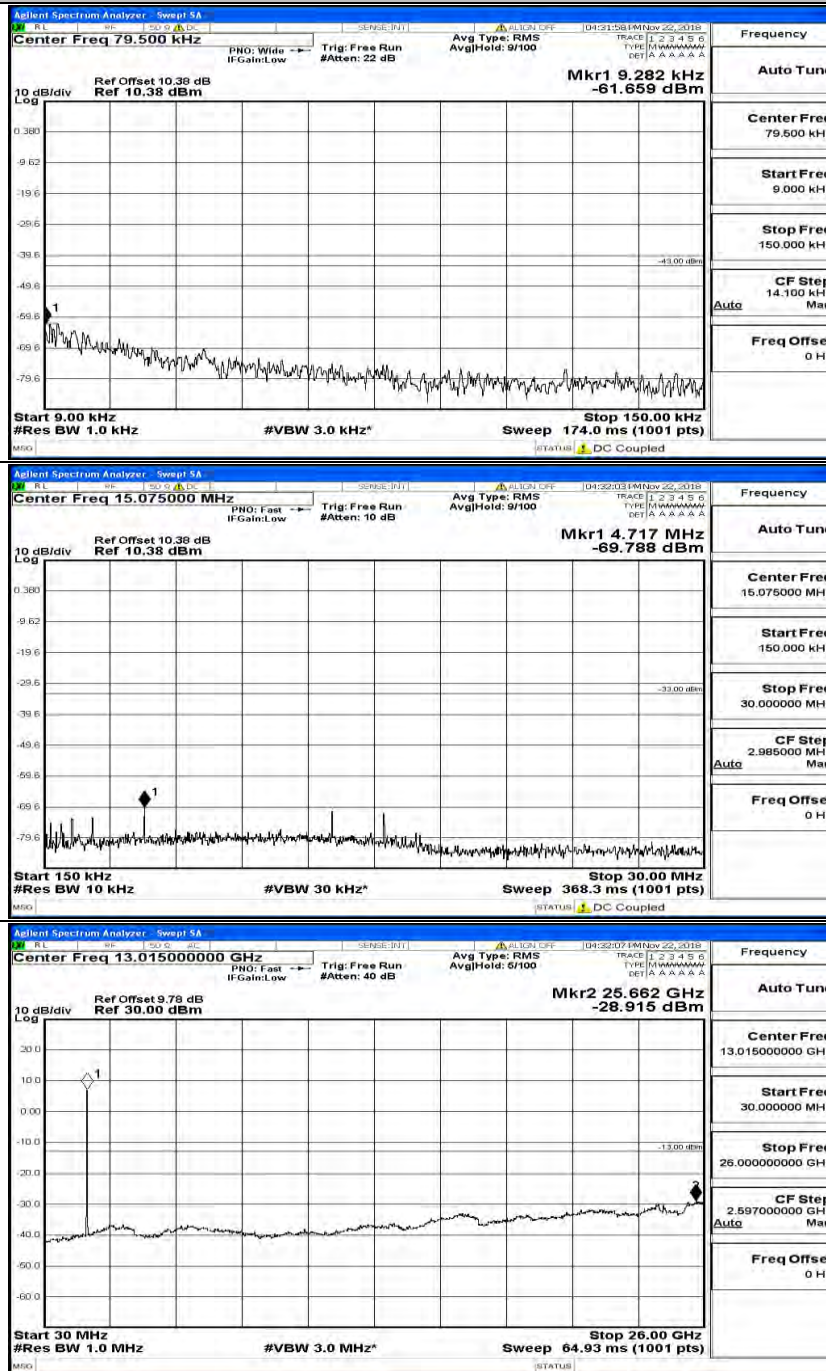
CSE Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



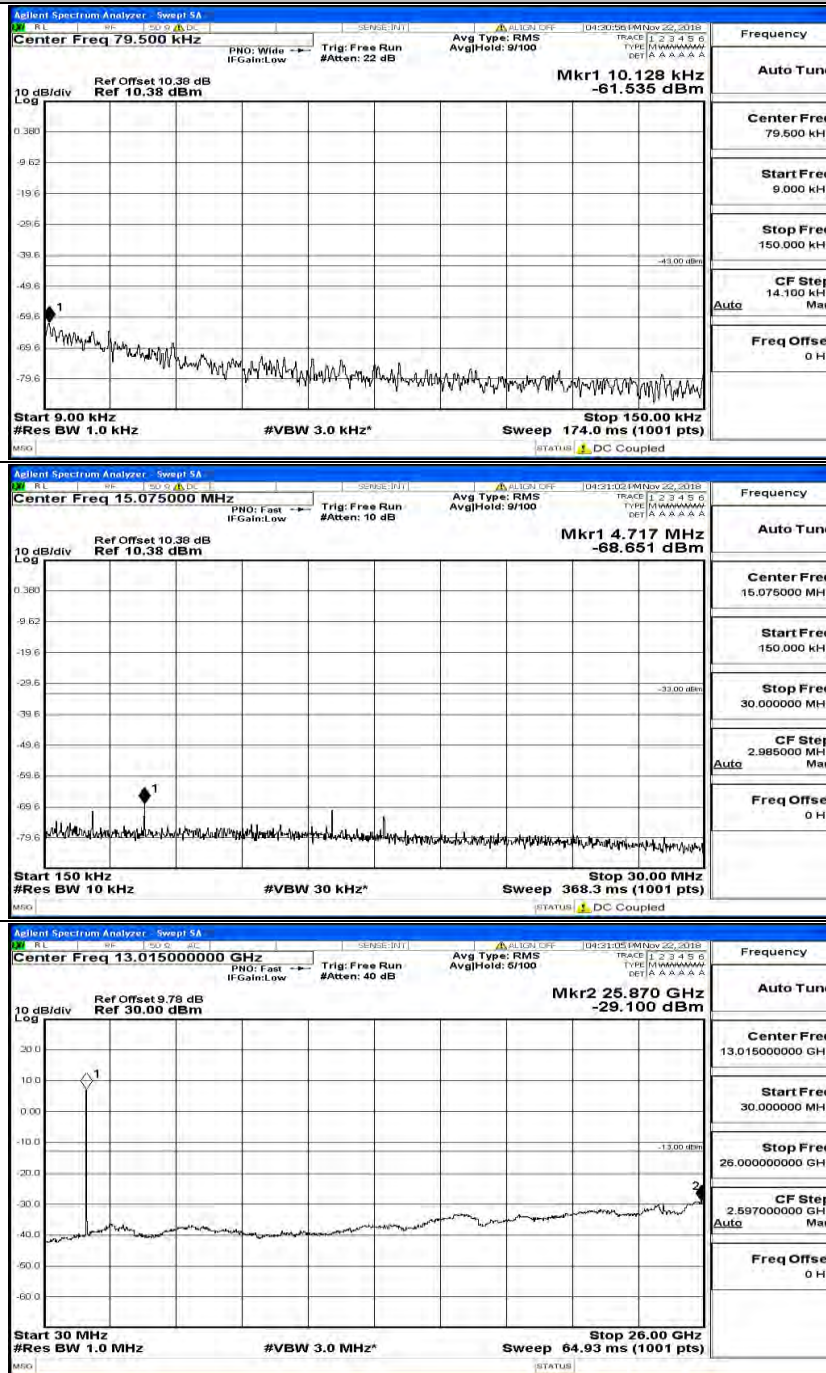
CSE Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



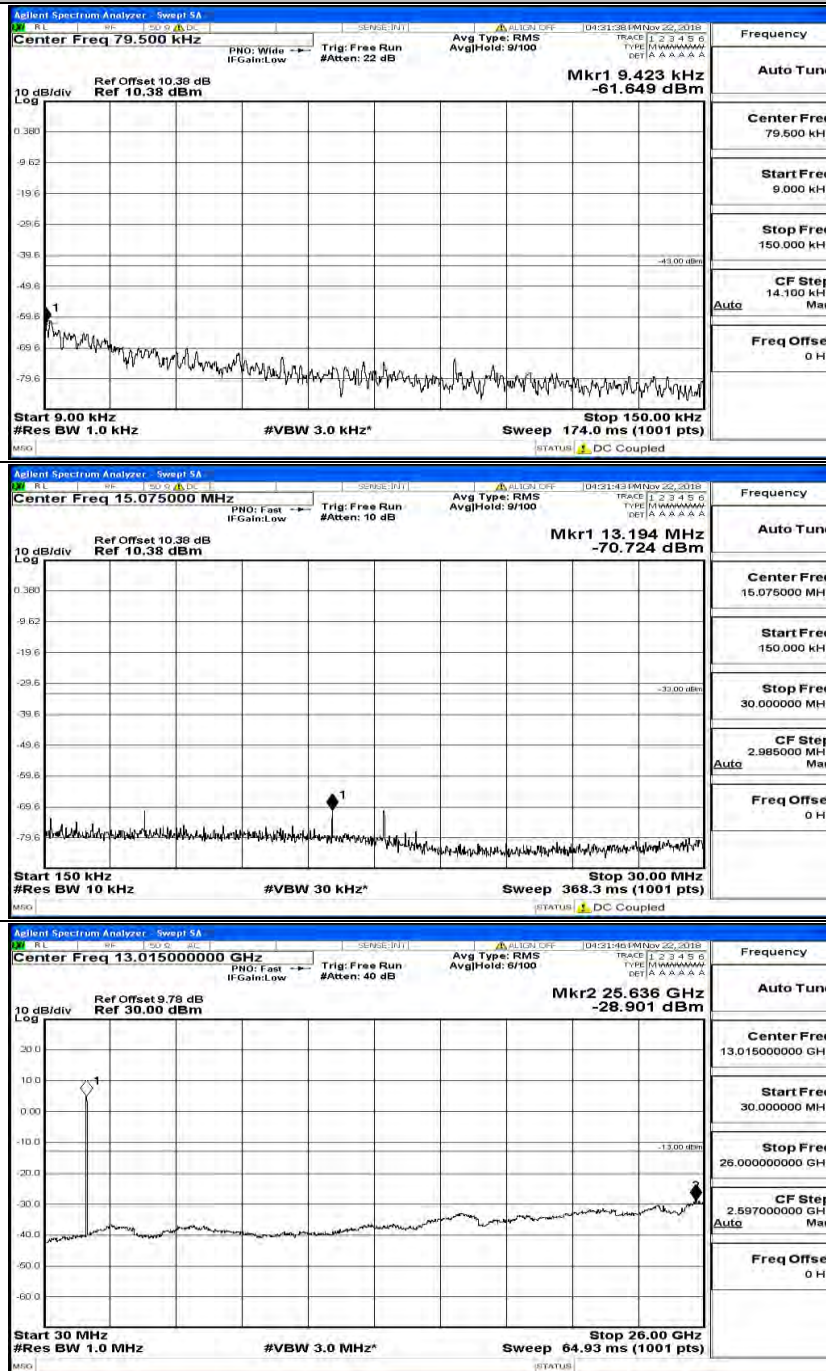
CSE Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



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



CSE Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_16QAM



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

