

Appendix G: Test Data for E-UTRA Band 12

Product Name: Biometric access system

Trade Mark: N/A

Test Model: Access One

Environmental Conditions

Temperature:	24.5°C
Relative Humidity:	54.4%
ATM Pressure:	100.0 kPa
Test Engineer:	JK ZHOU
Supervised by:	Wang.Chuang

G.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]		Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.29	21.50	PASS
		1	3	22.37	21.65	PASS
		1	5	22.25	21.48	PASS
		3	0	22.36	21.49	PASS
		3	2	22.38	21.48	PASS
		3	3	22.37	21.42	PASS
		6	0	21.36	20.35	PASS
	MCH	1	0	22.34	21.67	PASS
		1	3	22.46	21.86	PASS
		1	5	22.36	21.69	PASS
		3	0	22.45	21.37	PASS
		3	2	22.38	21.40	PASS
		3	3	22.44	21.43	PASS
		6	0	21.37	20.35	PASS
	HCH	1	0	22.44	21.66	PASS
		1	3	22.53	21.80	PASS
		1	5	22.41	21.66	PASS
		3	0	22.48	21.53	PASS
		3	2	22.50	21.54	PASS
		3	3	22.50	21.53	PASS
		6	0	21.48	20.60	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)

Modulation	Channel	RB Configuration		Average Power [dBm]		Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.32	21.56	PASS
		1	7	22.55	21.79	PASS
		1	14	22.30	21.56	PASS
		8	0	21.31	20.38	PASS
		8	4	21.32	20.45	PASS
		8	7	21.32	20.38	PASS
		15	0	21.30	20.26	PASS
	MCH	1	0	22.33	21.61	PASS
		1	7	22.49	21.82	PASS
		1	14	22.34	21.62	PASS
		8	0	21.37	20.42	PASS
		8	4	21.41	20.51	PASS
		8	7	21.37	20.45	PASS
		15	0	21.37	20.35	PASS
	HCH	1	0	22.40	21.76	PASS
		1	7	22.69	21.94	PASS
		1	14	22.38	21.70	PASS
		8	0	21.41	20.44	PASS
		8	4	21.45	20.43	PASS
		8	7	21.42	20.40	PASS
		15	0	21.38	20.39	PASS

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.21	21.57	PASS
		1	12	22.56	21.82	PASS
		1	24	22.21	21.59	PASS
		12	0	21.21	20.43	PASS
		12	6	21.31	20.50	PASS
		12	13	21.32	20.49	PASS
		25	0	21.34	20.36	PASS
	MCH	1	0	22.26	21.62	PASS
		1	12	22.57	21.97	PASS
		1	24	22.28	21.65	PASS
		12	0	21.32	20.48	PASS
		12	6	21.41	20.56	PASS
		12	13	21.35	20.55	PASS
		25	0	21.37	20.39	PASS
	HCH	1	0	22.31	21.36	PASS
		1	12	22.87	21.65	PASS
		1	24	22.33	21.28	PASS
		12	0	21.42	20.47	PASS
		12	6	21.44	20.50	PASS
		12	13	21.35	20.44	PASS
		25	0	21.41	20.44	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	22.24	21.52	PASS
		1	24	22.45	21.75	PASS
		1	49	22.31	21.55	PASS
		25	0	21.32	20.31	PASS
		25	12	21.36	20.36	PASS
		25	25	21.41	20.45	PASS
		50	0	21.36	20.32	PASS
	MCH	1	0	22.24	21.51	PASS
		1	24	22.51	21.76	PASS
		1	49	22.36	21.62	PASS
		25	0	21.39	20.40	PASS
		25	12	21.38	20.37	PASS
		25	25	21.37	20.38	PASS
		50	0	21.33	20.35	PASS
	HCH	1	0	22.29	21.67	PASS
		1	24	22.56	21.95	PASS
		1	49	22.31	21.65	PASS
		25	0	21.42	20.47	PASS
		25	12	21.40	20.44	PASS
		25	25	21.36	20.40	PASS
		50	0	21.37	20.42	PASS

G.2 Peak-to-Average Ratio

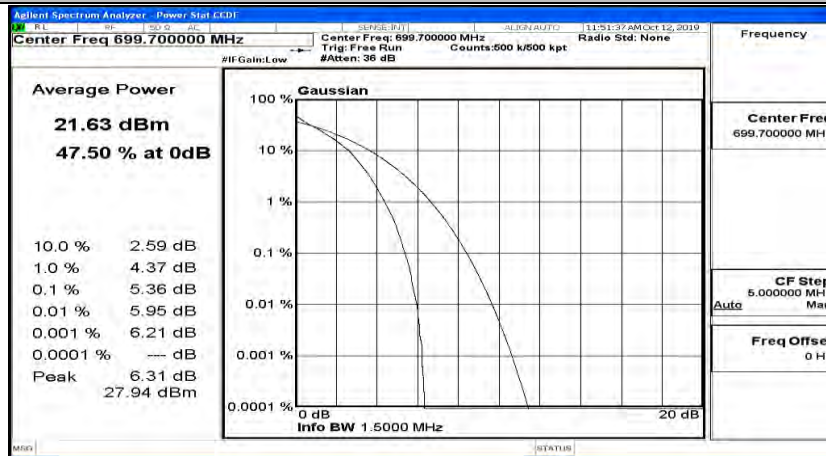
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.36	<13	PASS
	MCH	5.25	<13	PASS
	HCH	5.16	<13	PASS
16QAM	LCH	6.22	<13	PASS
	MCH	6.16	<13	PASS
	HCH	6.07	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.36	<13	PASS
	MCH	5.43	<13	PASS
	HCH	5.42	<13	PASS
16QAM	LCH	6.31	<13	PASS
	MCH	6.24	<13	PASS
	HCH	6.14	<13	PASS

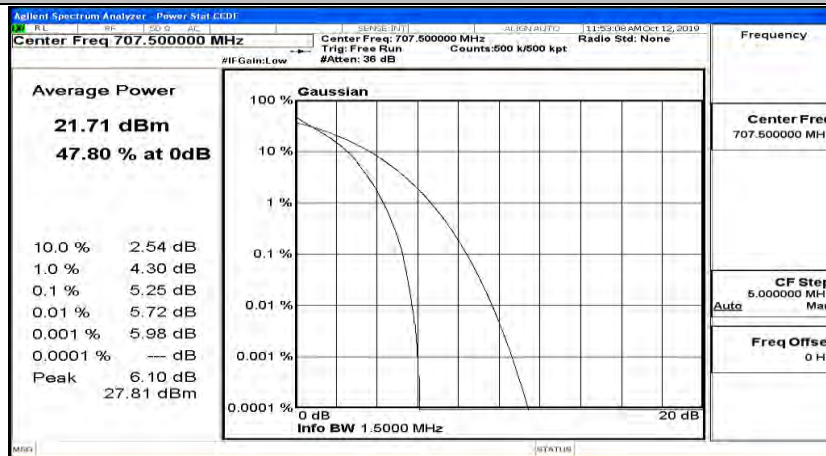
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.41	<13	PASS
	MCH	5.42	<13	PASS
	HCH	5.42	<13	PASS
16QAM	LCH	6.16	<13	PASS
	MCH	6.24	<13	PASS
	HCH	6.19	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.46	<13	PASS
	MCH	5.47	<13	PASS
	HCH	5.5	<13	PASS
16QAM	LCH	6.2	<13	PASS
	MCH	6.16	<13	PASS
	HCH	6.2	<13	PASS

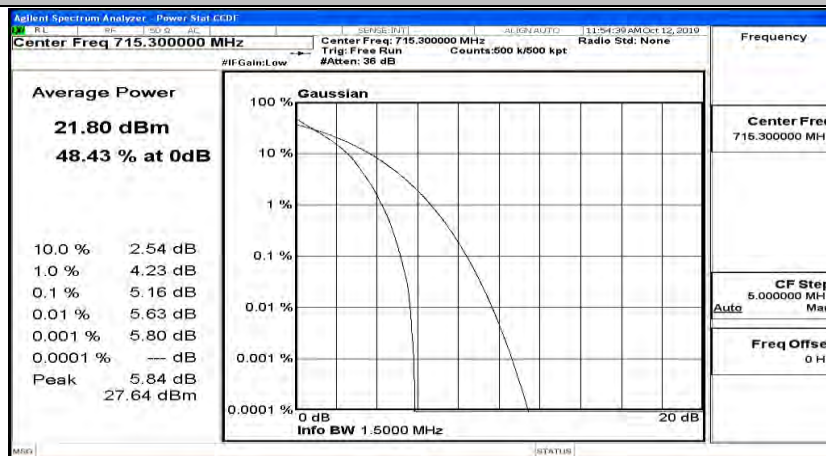
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



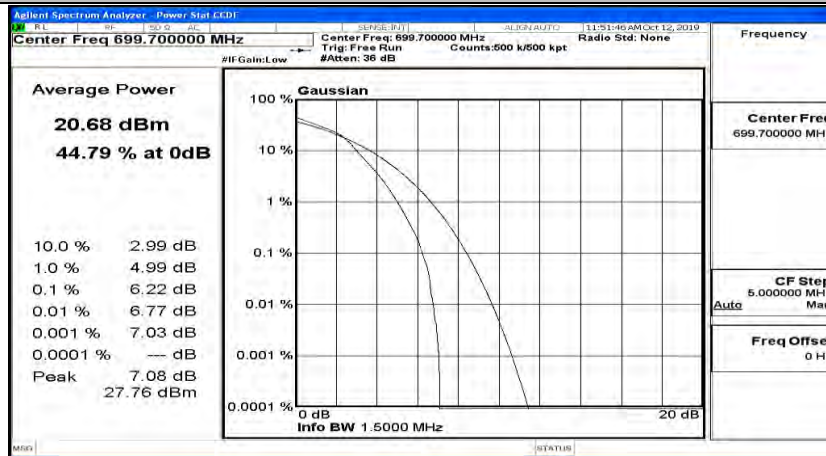
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



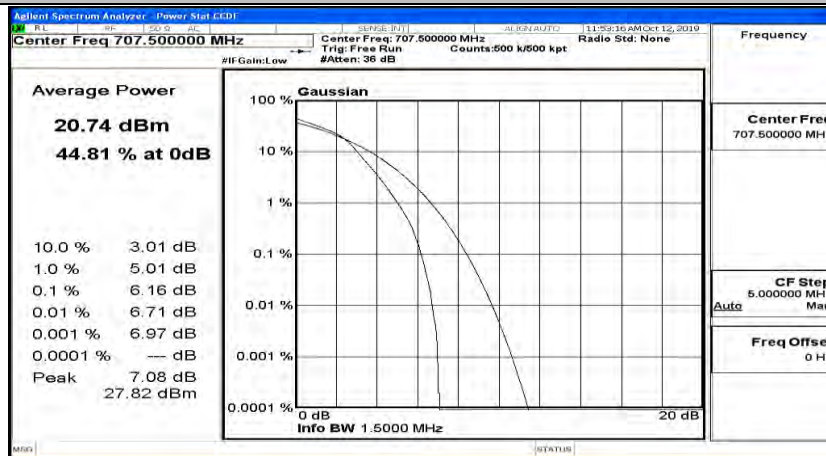
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



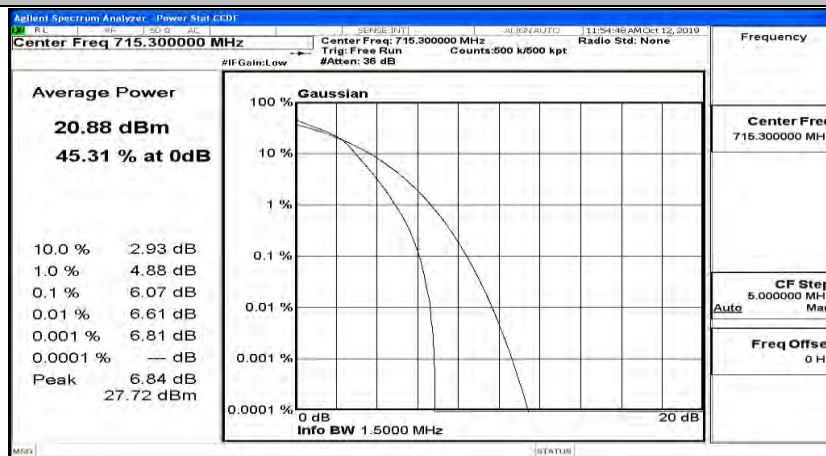
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



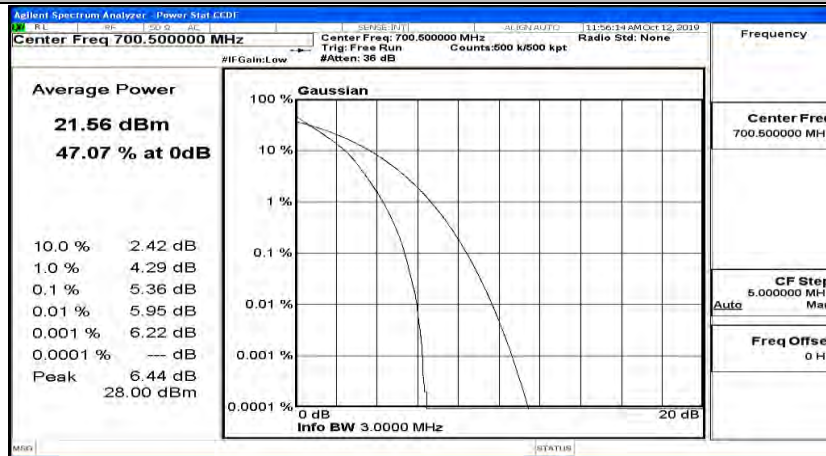
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



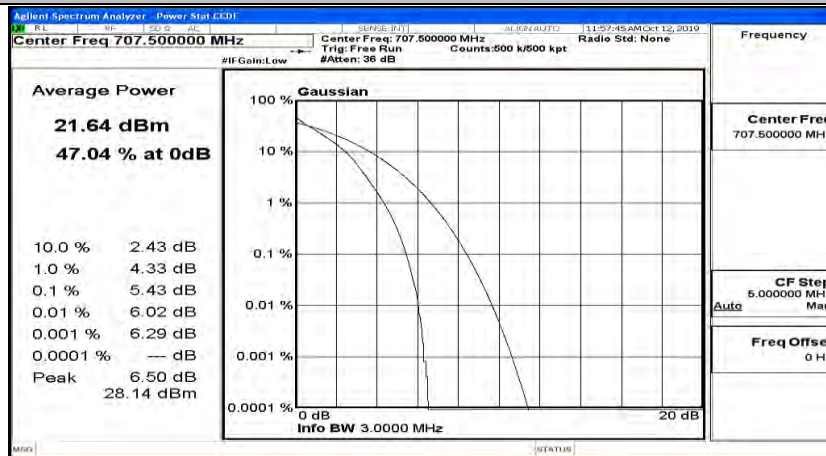
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



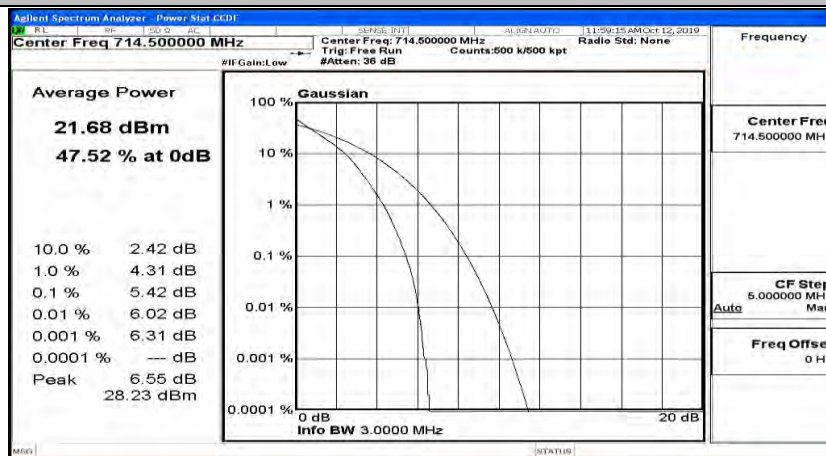
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



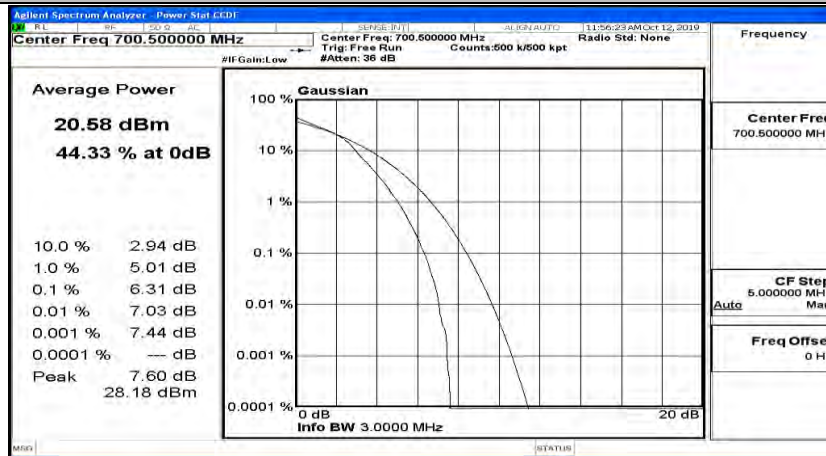
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



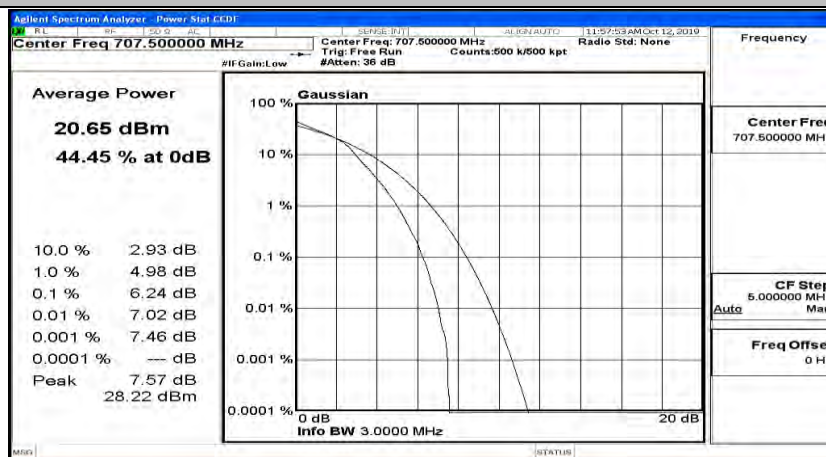
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



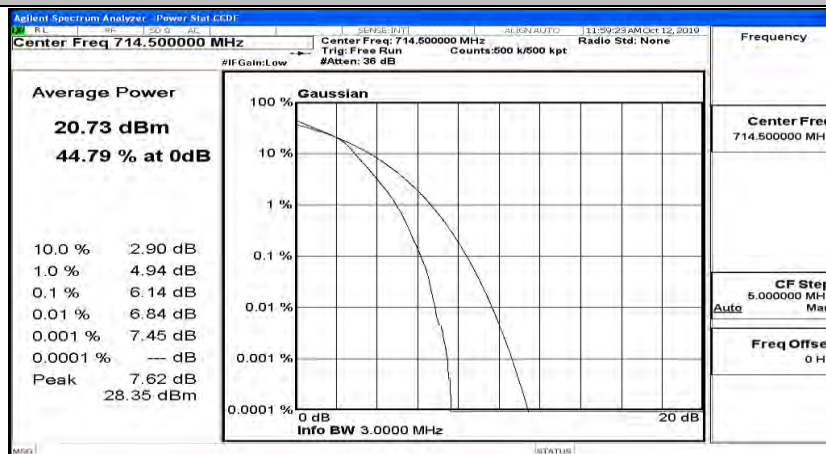
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



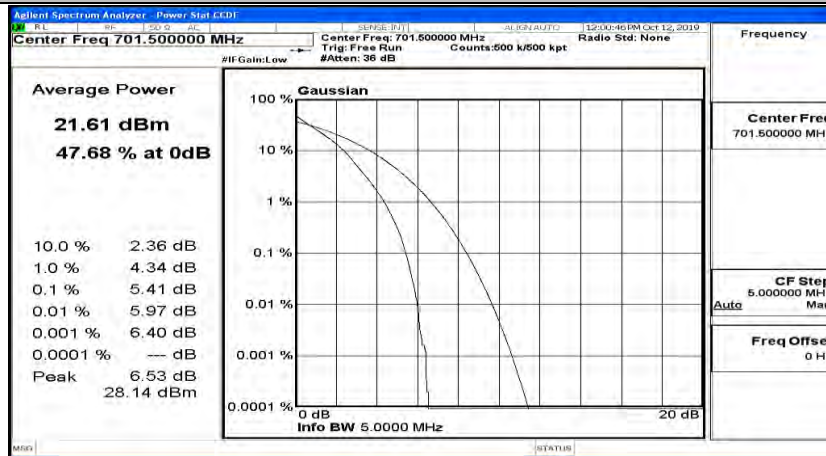
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



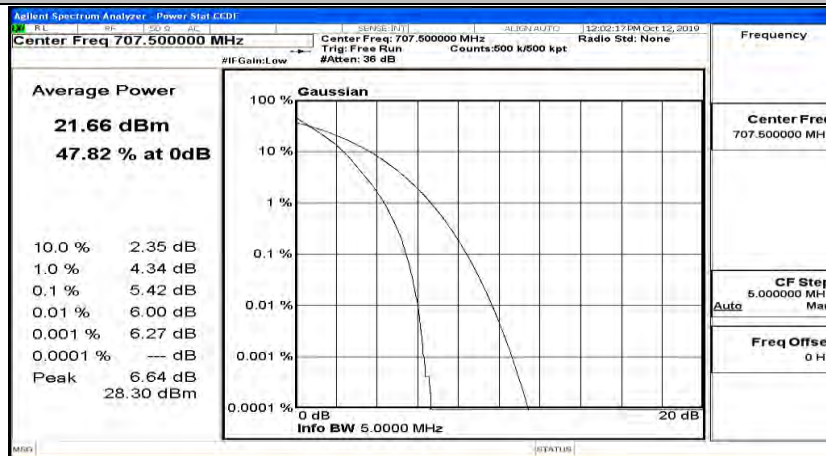
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



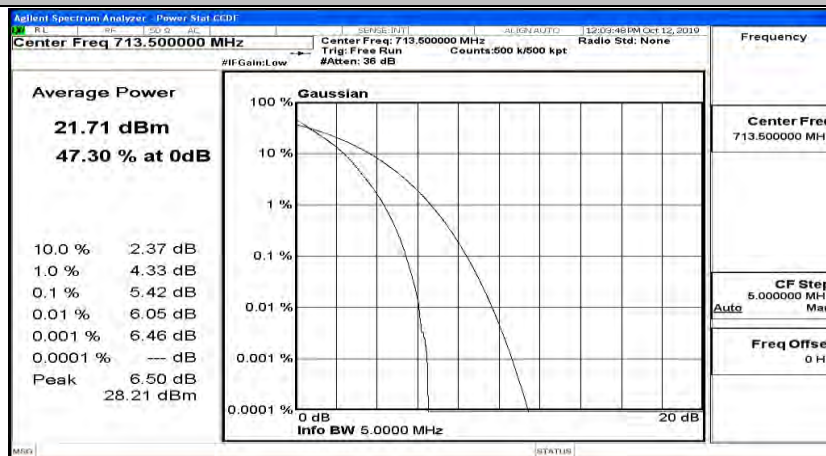
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



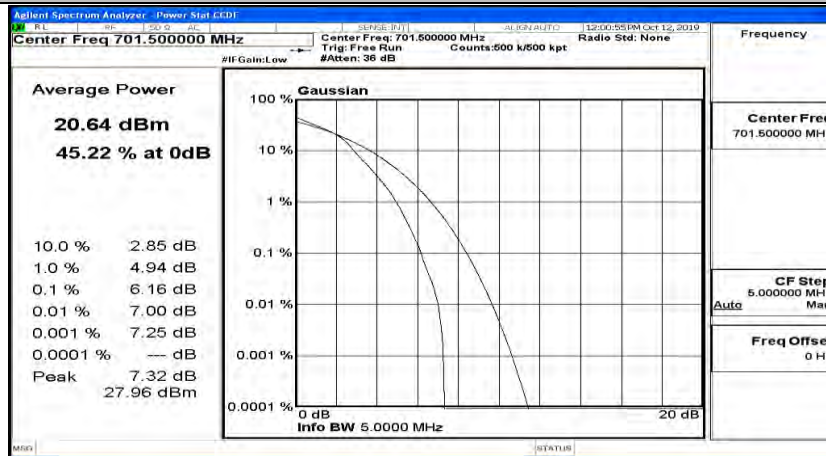
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



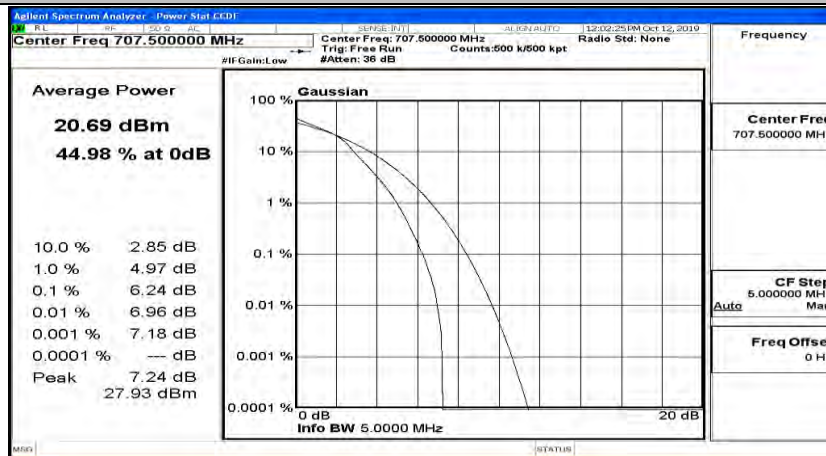
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



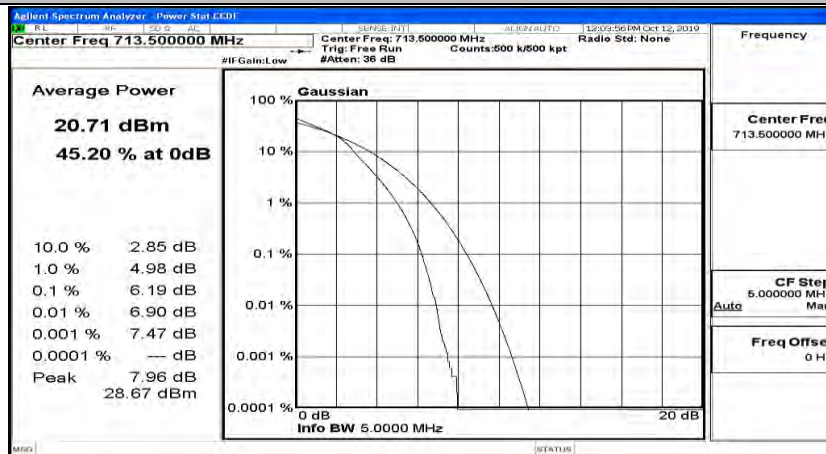
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



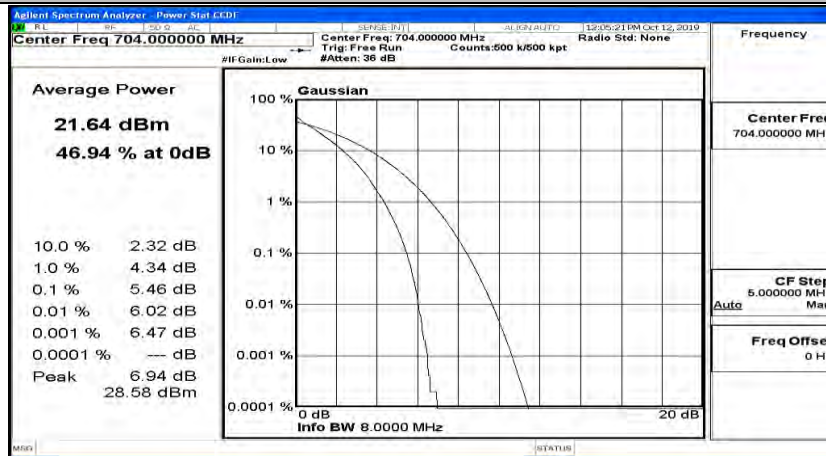
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



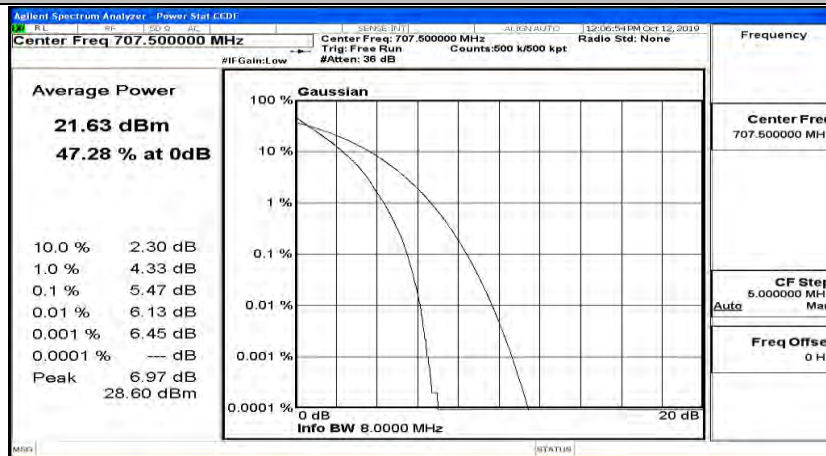
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



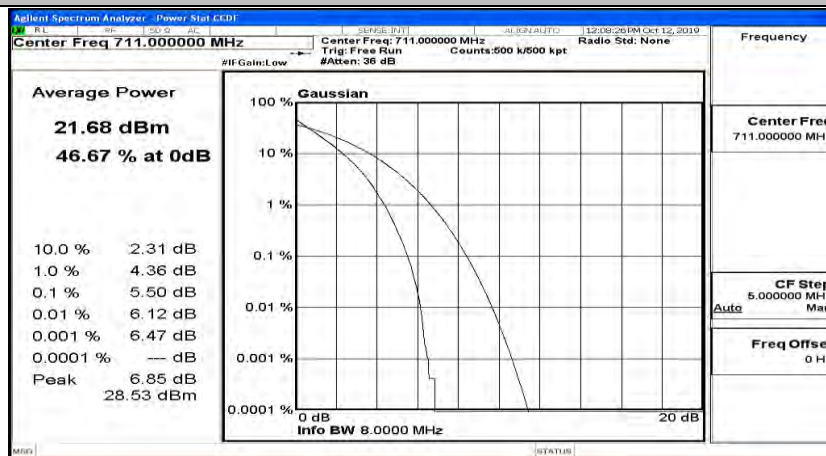
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



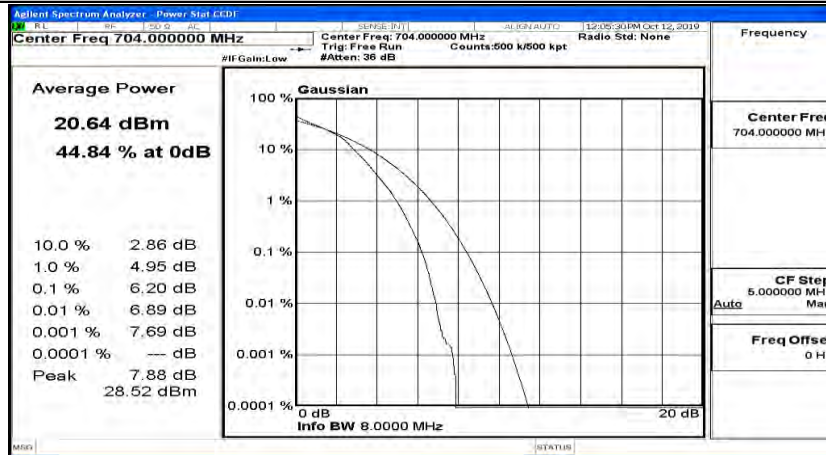
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



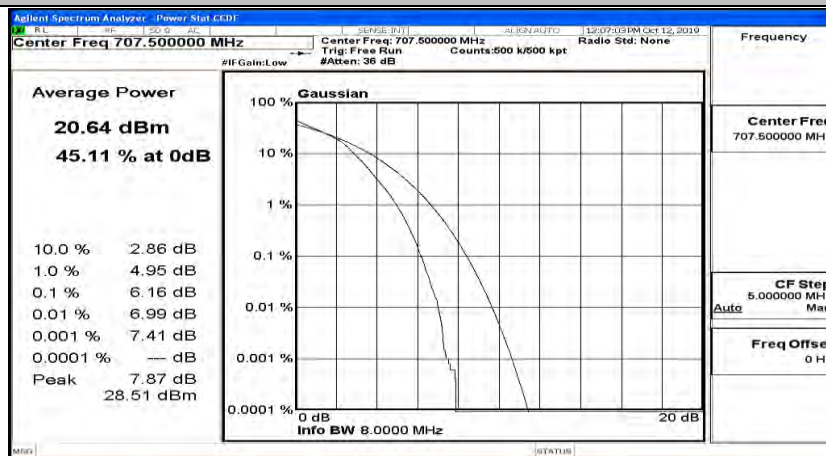
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



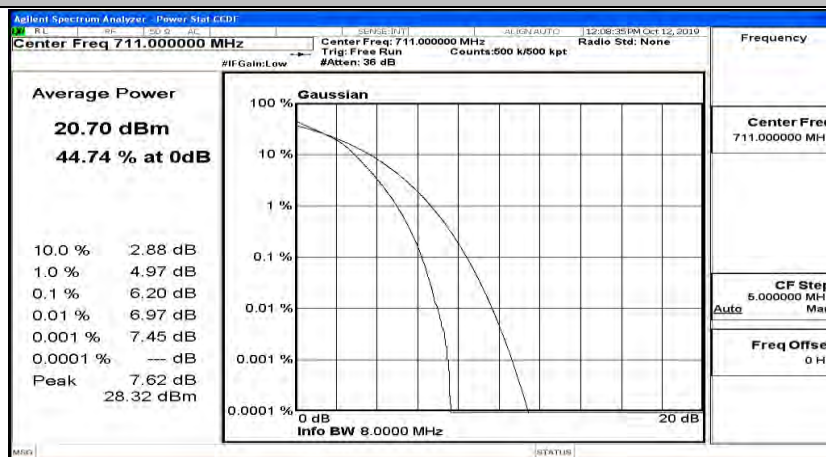
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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



G.3 26dB Bandwidth and Occupied Bandwidth

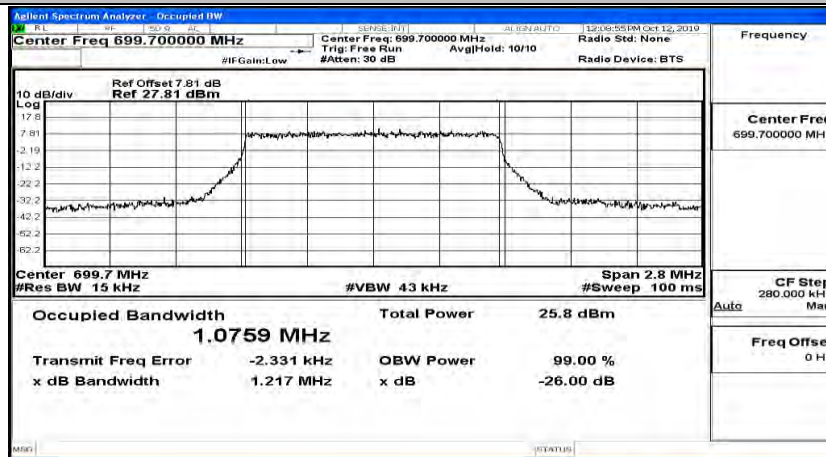
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0759	1.217	PASS
	MCH	1.0736	1.206	PASS
	HCH	1.0757	1.235	PASS
16QAM	LCH	1.0802	1.241	PASS
	MCH	1.0790	1.243	PASS
	HCH	1.0755	1.225	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6787	2.825	PASS
	MCH	2.6789	2.818	PASS
	HCH	2.6785	2.860	PASS
16QAM	LCH	2.6790	2.842	PASS
	MCH	2.6784	2.819	PASS
	HCH	2.6843	2.823	PASS

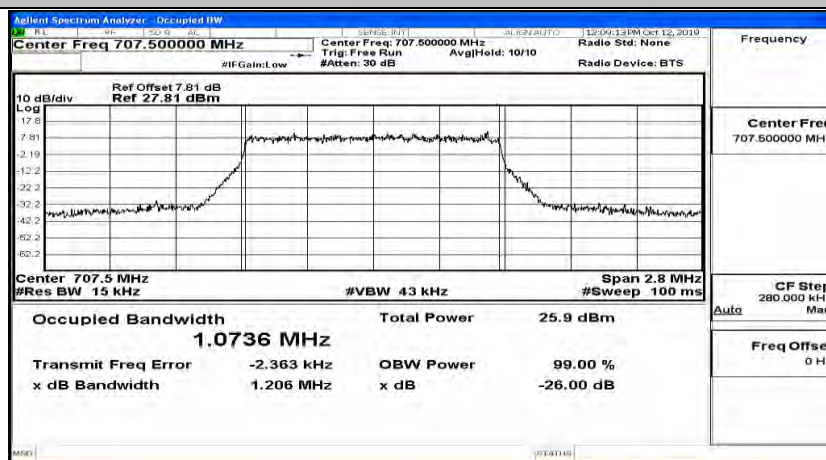
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4810	4.870	PASS
	MCH	4.4701	4.801	PASS
	HCH	4.4782	4.885	PASS
16QAM	LCH	4.4733	4.861	PASS
	MCH	4.4720	4.869	PASS
	HCH	4.4826	4.871	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9512	9.496	PASS
	MCH	8.9300	9.520	PASS
	HCH	8.9374	9.534	PASS
16QAM	LCH	8.9361	9.506	PASS
	MCH	8.9395	9.573	PASS
	HCH	8.9429	9.569	PASS

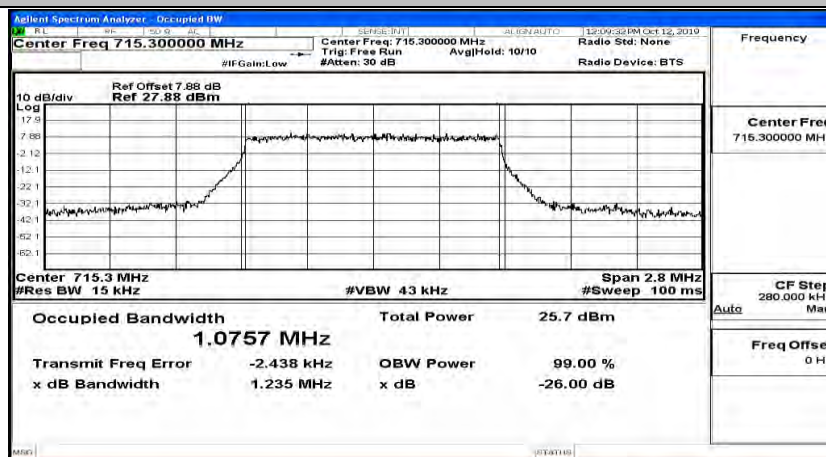
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



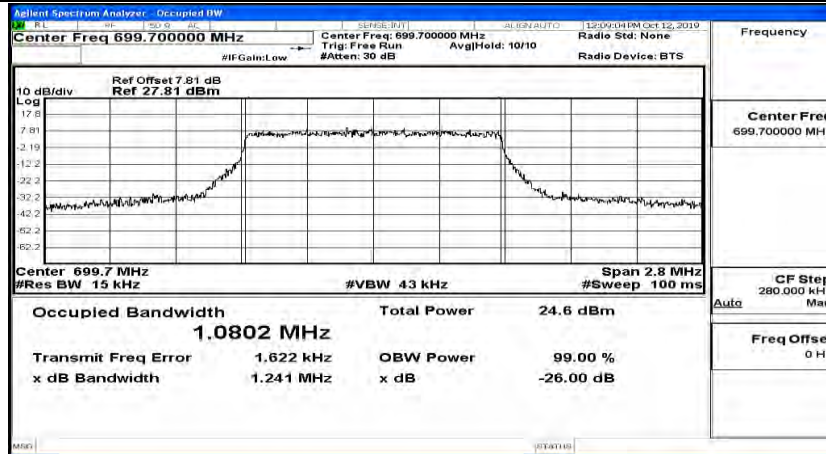
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



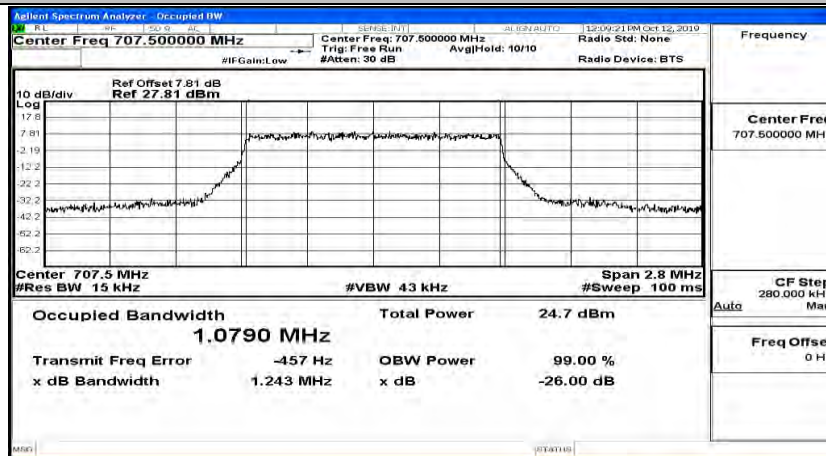
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



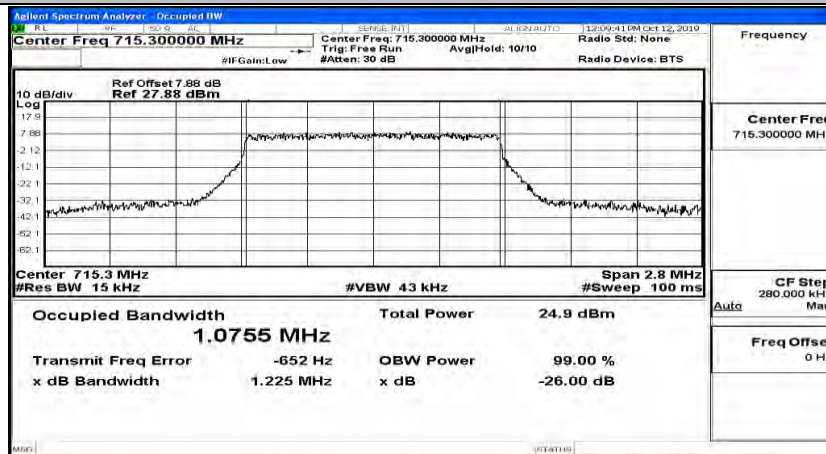
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



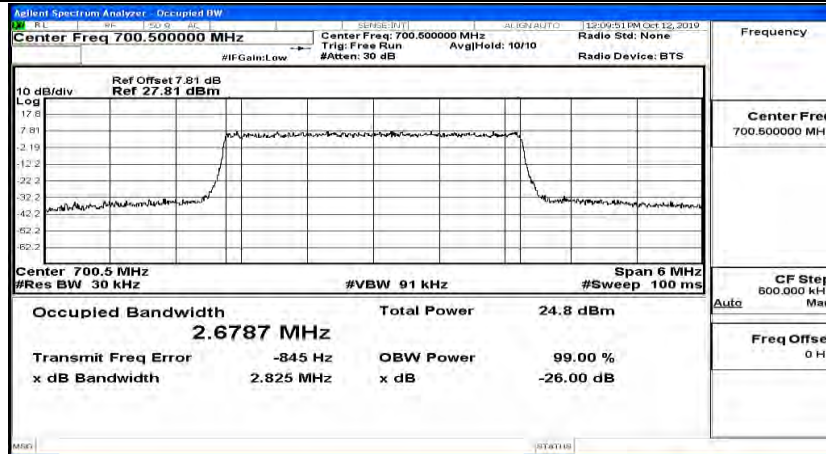
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



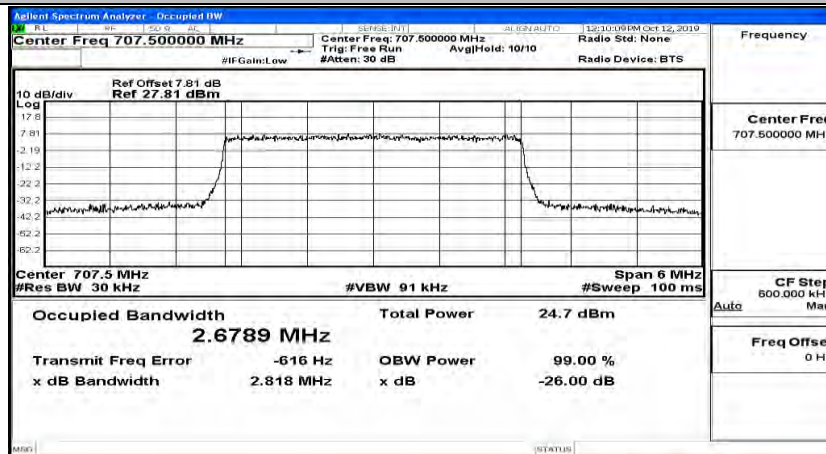
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



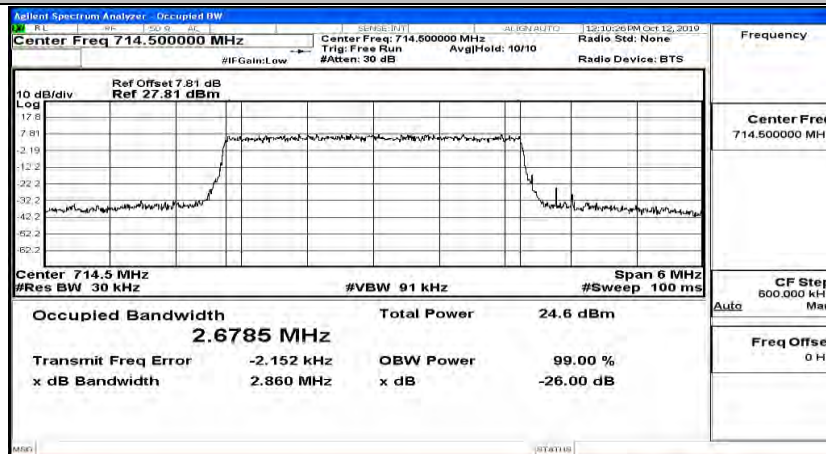
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



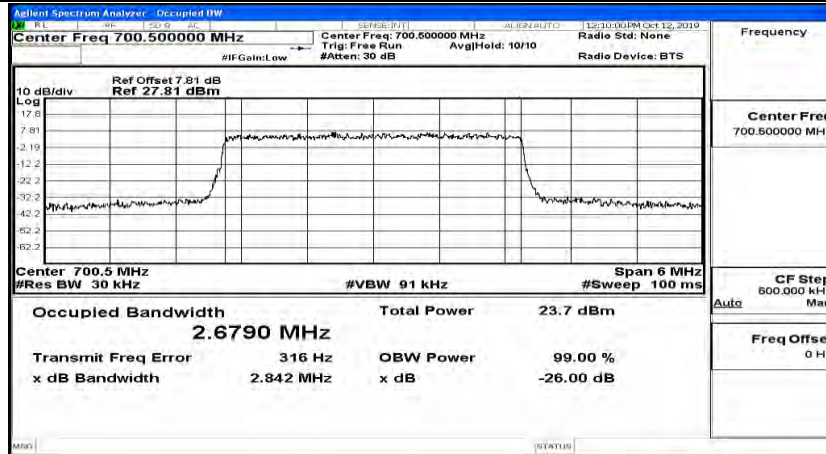
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



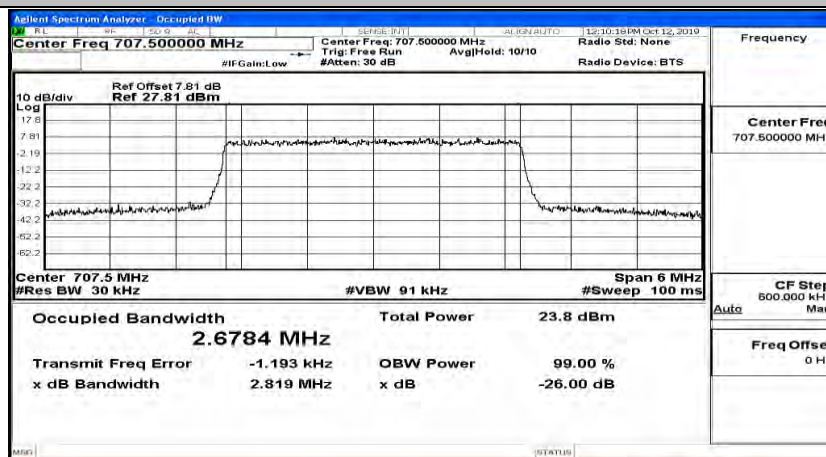
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



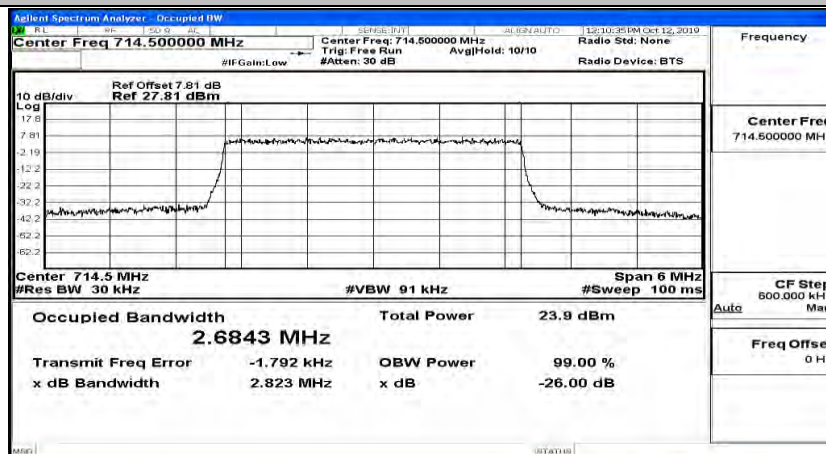
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



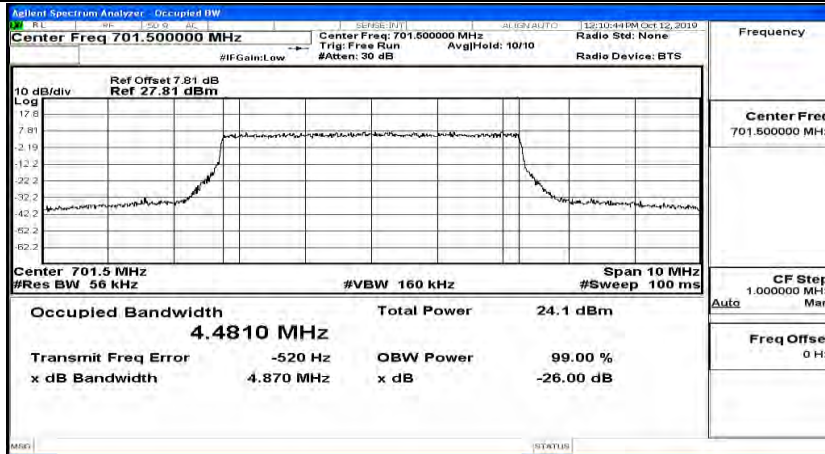
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



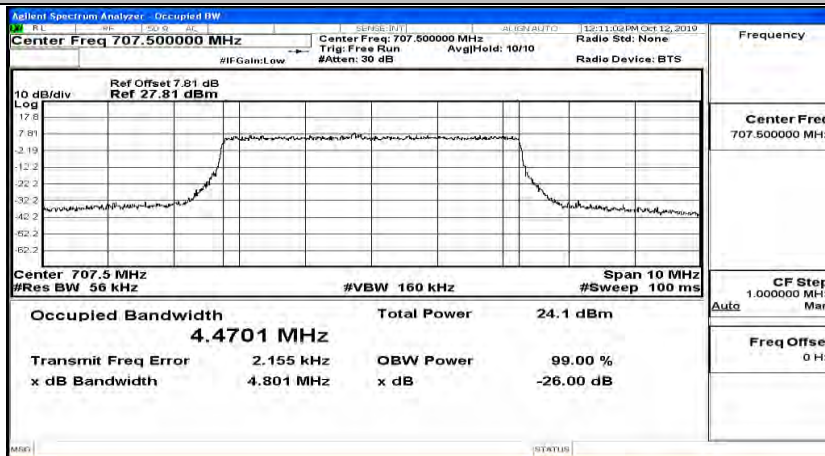
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



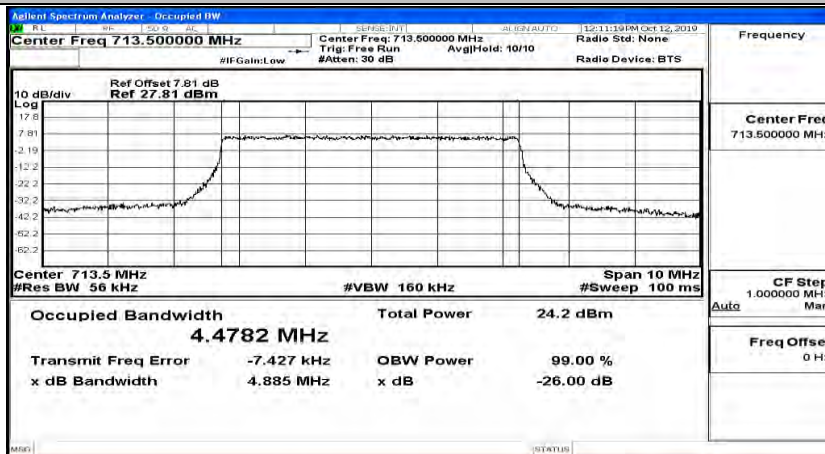
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



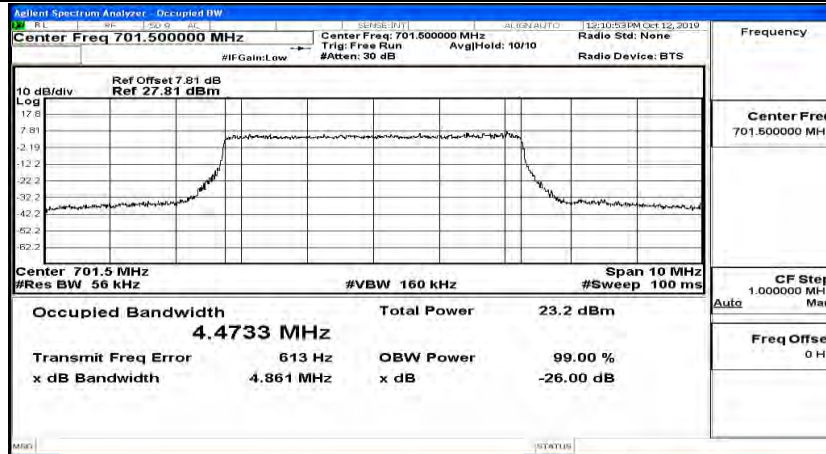
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



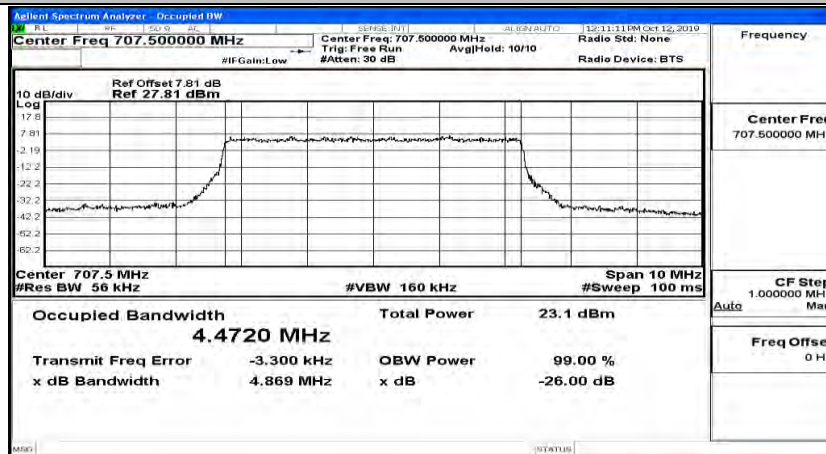
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



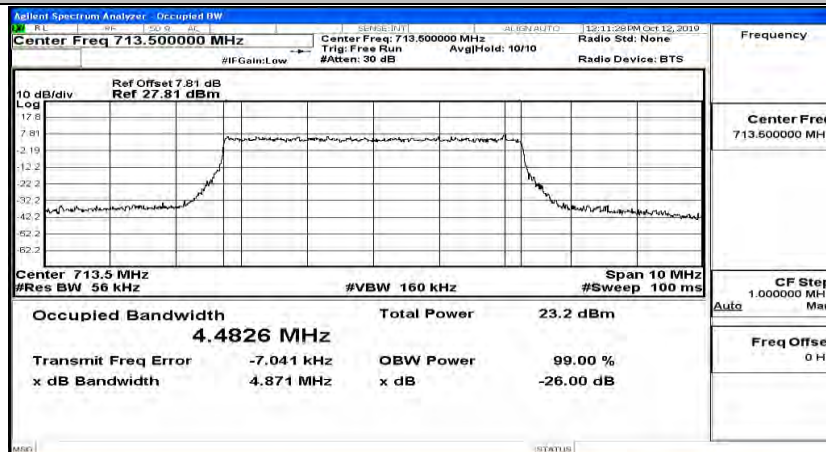
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



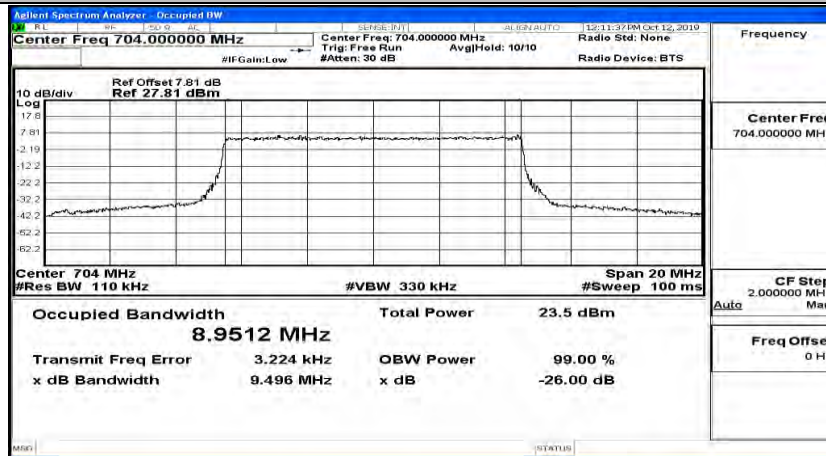
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



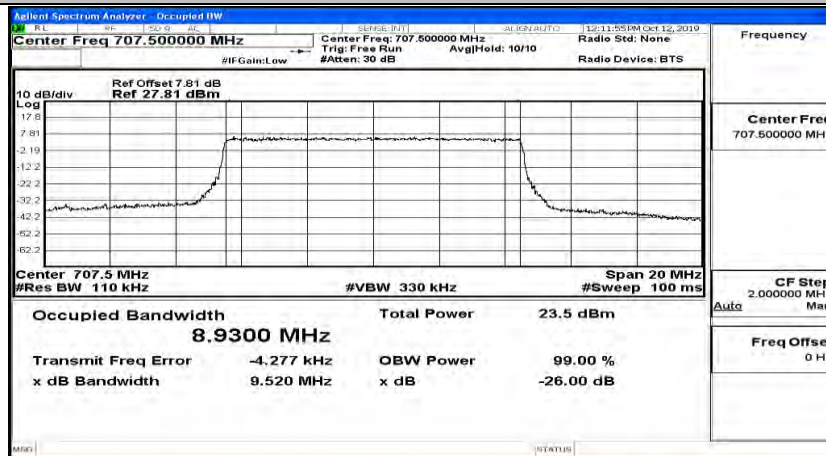
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



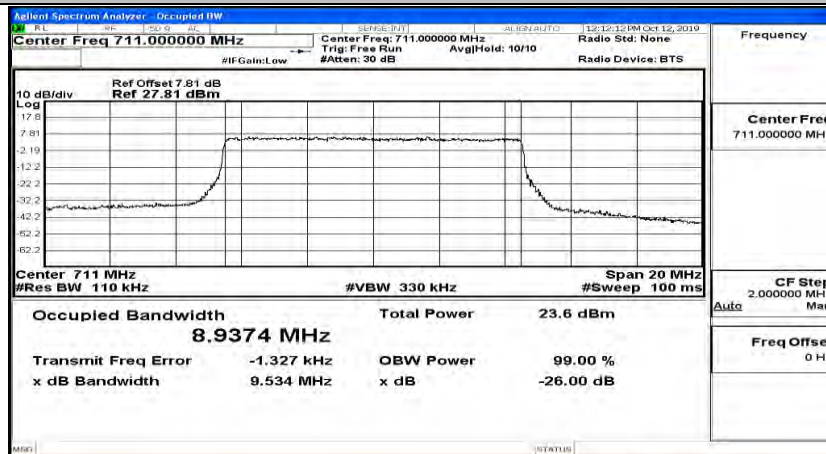
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



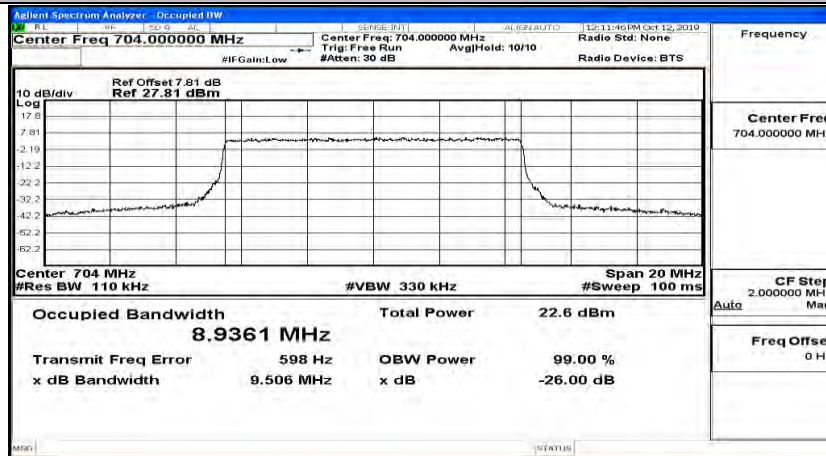
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



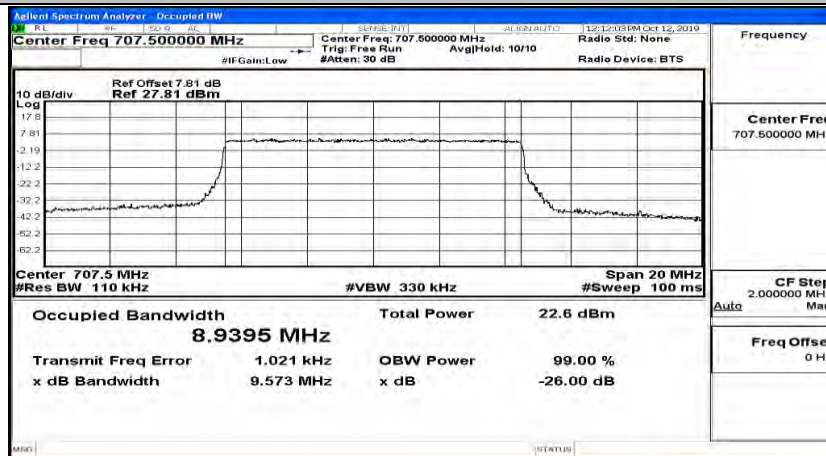
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



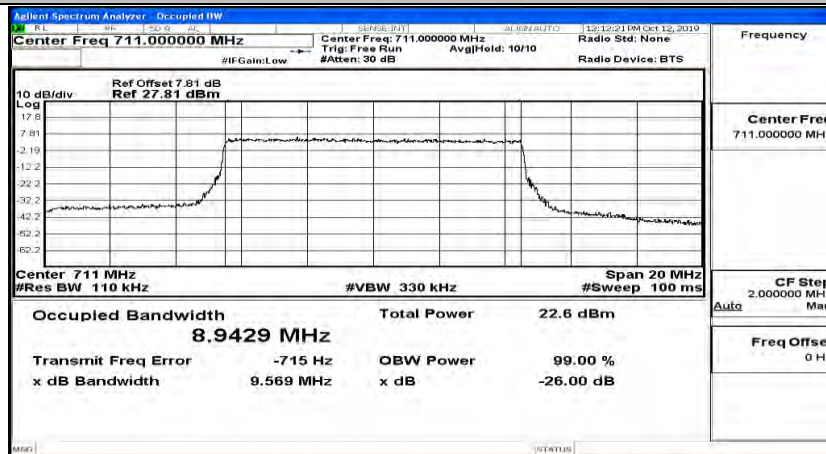
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

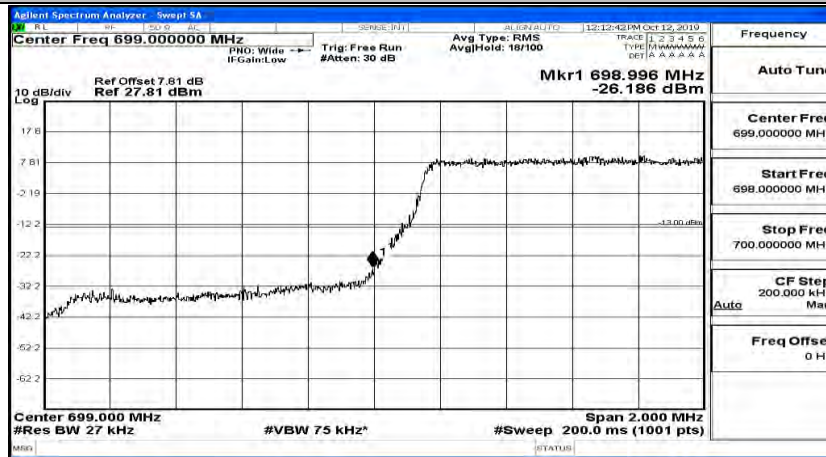


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

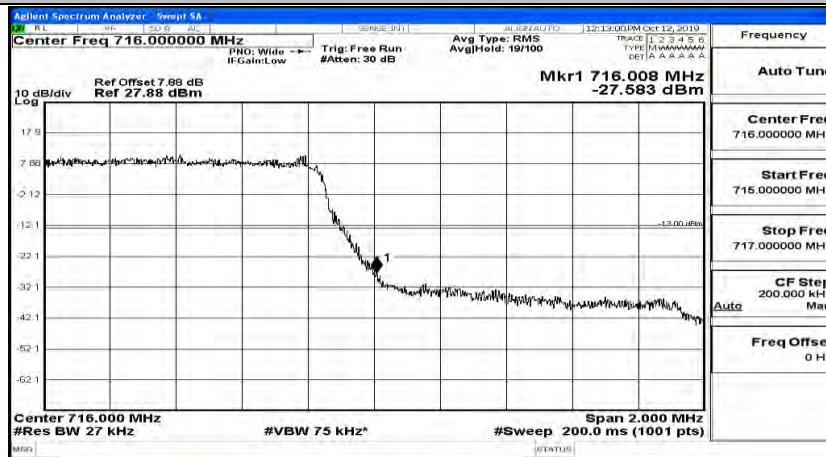


A.4 Band Edge

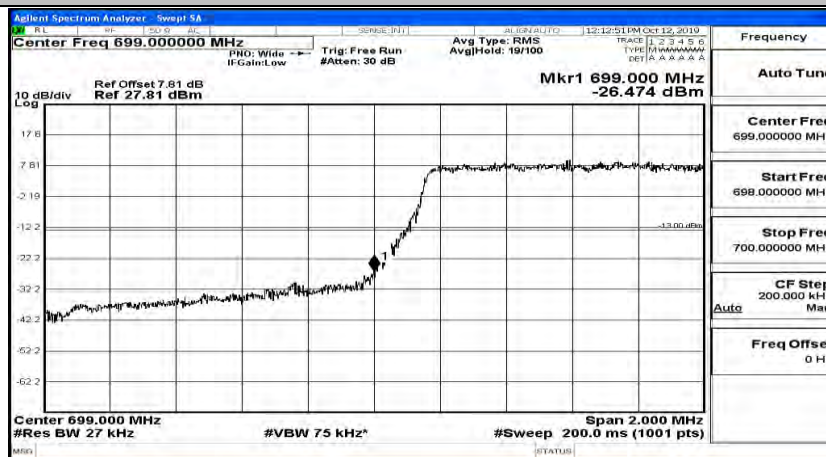
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



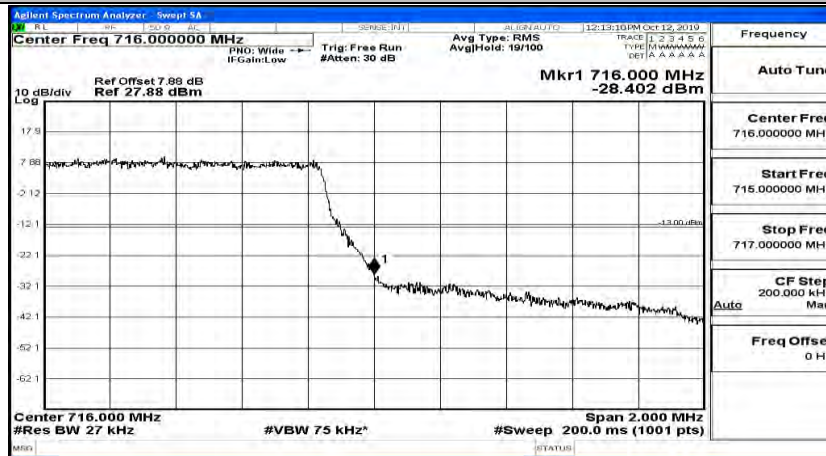
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



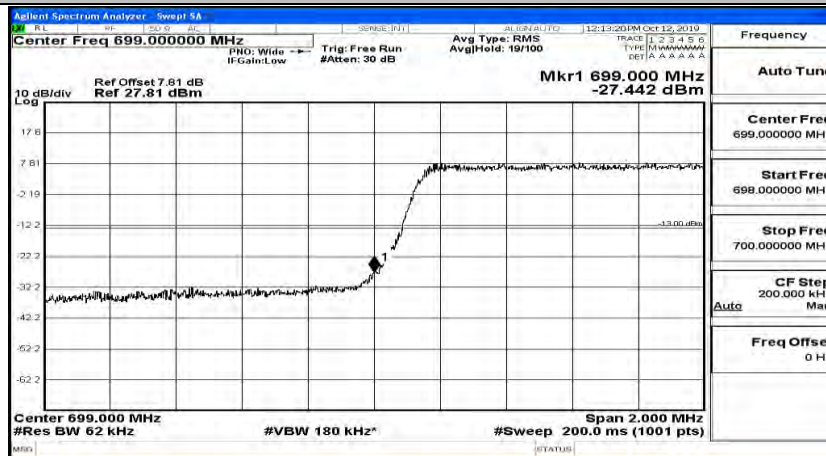
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



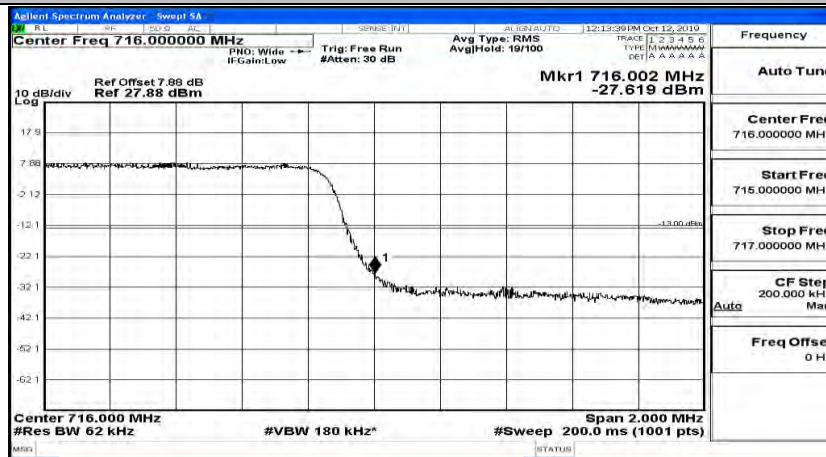
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



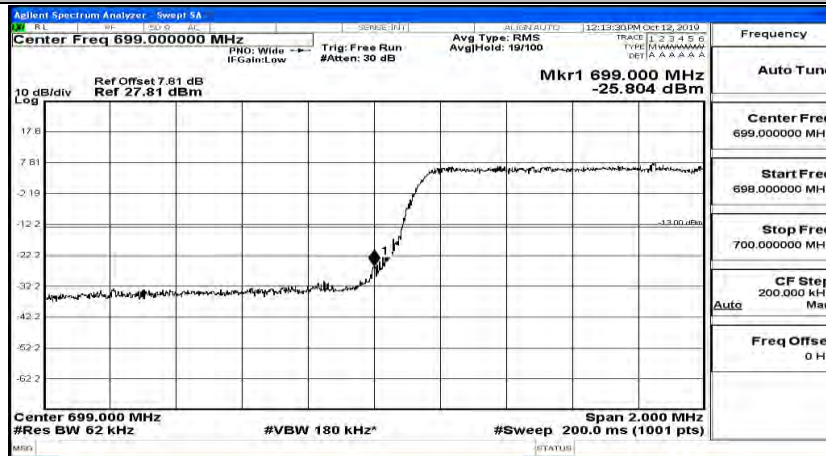
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



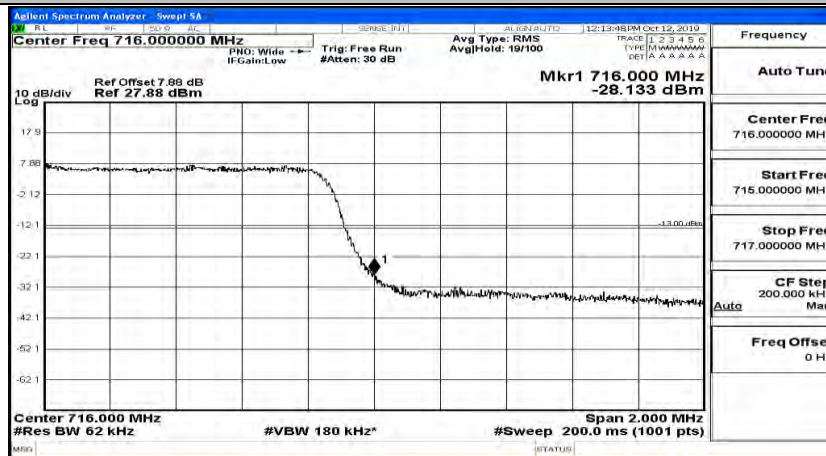
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



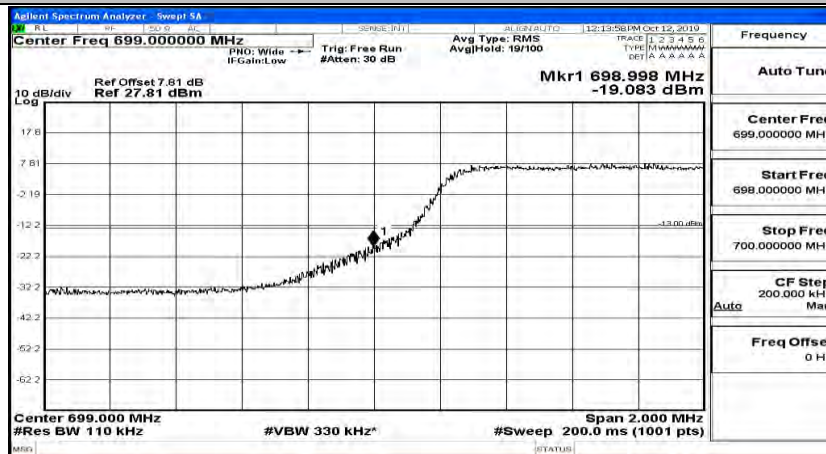
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



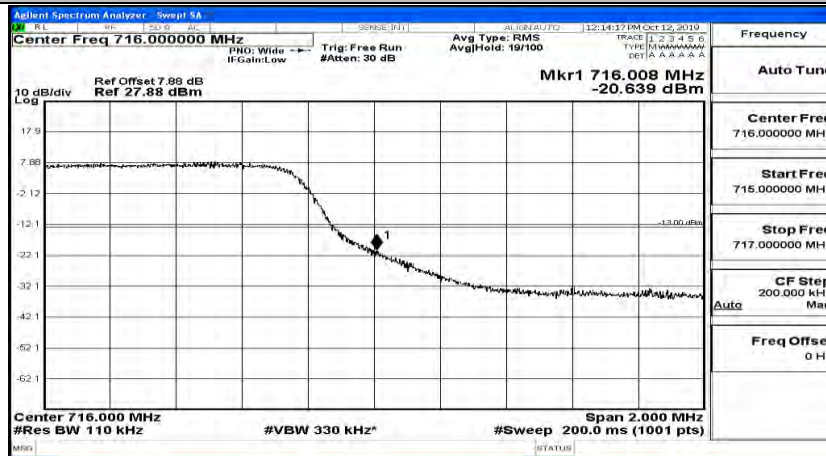
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



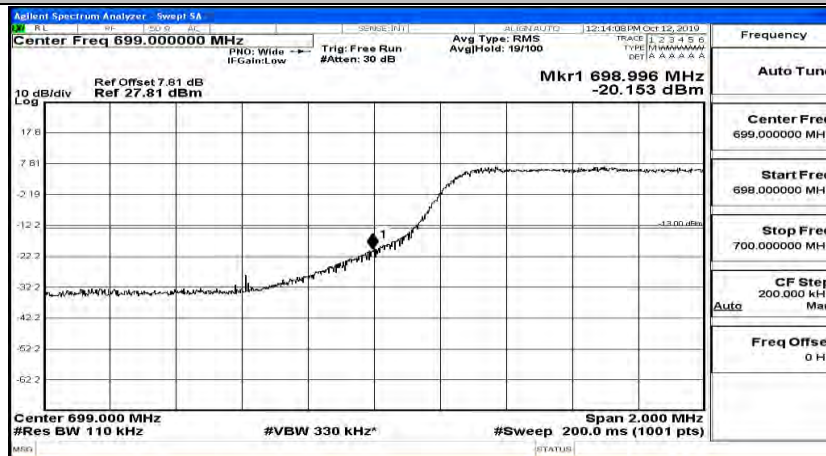
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



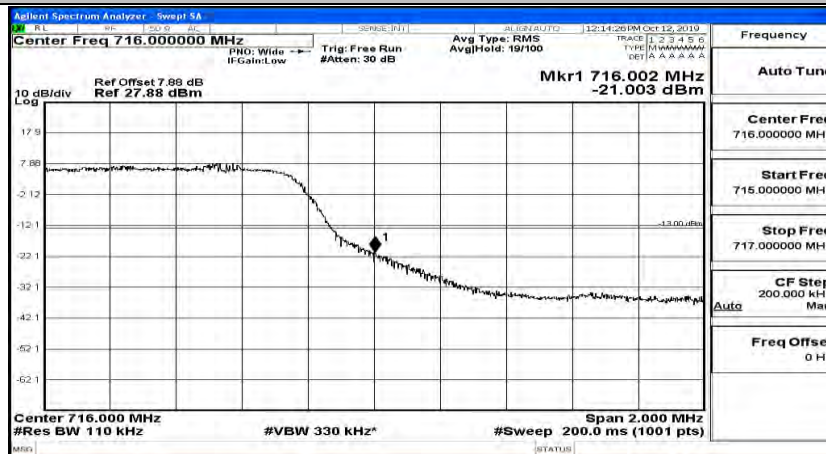
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



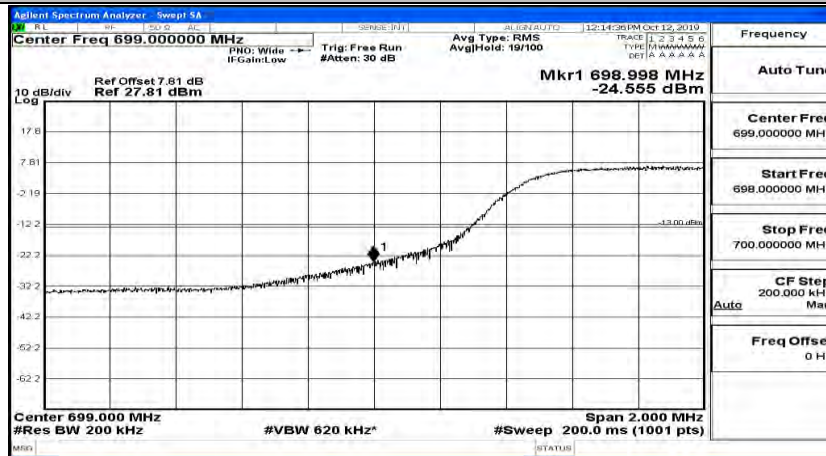
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



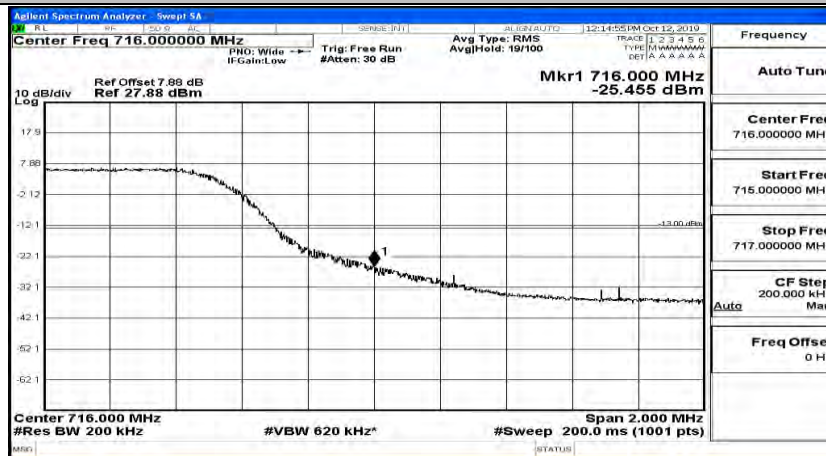
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



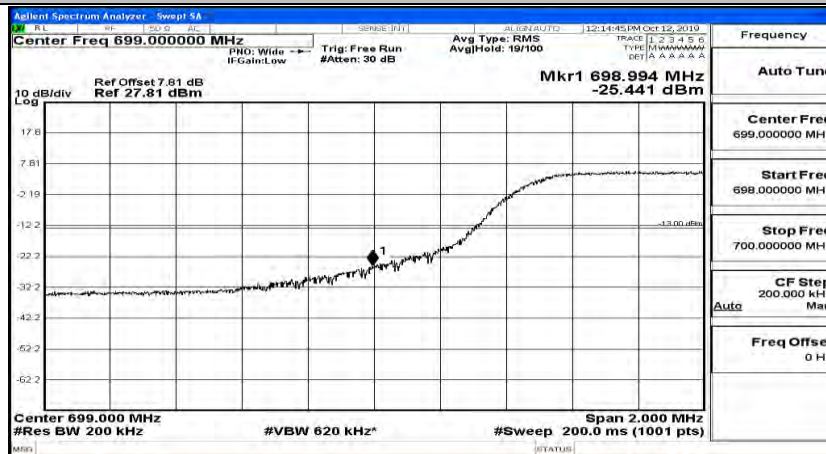
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



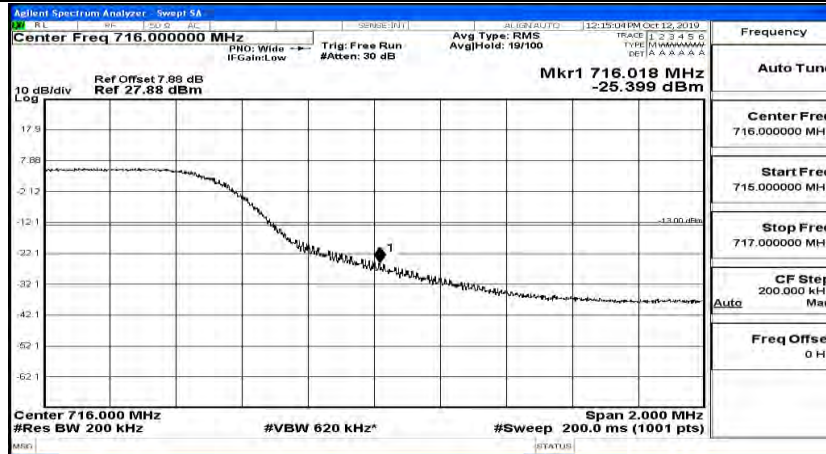
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



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

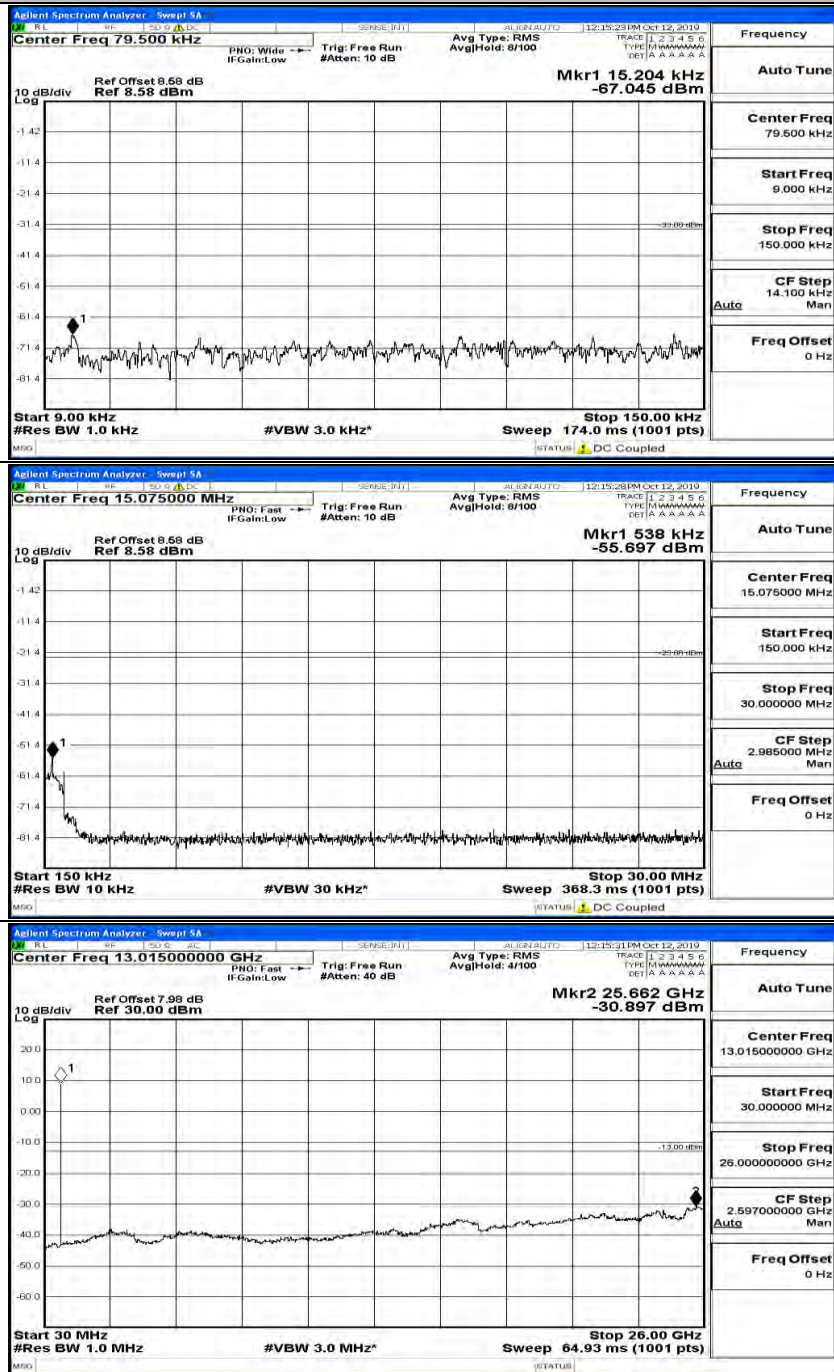


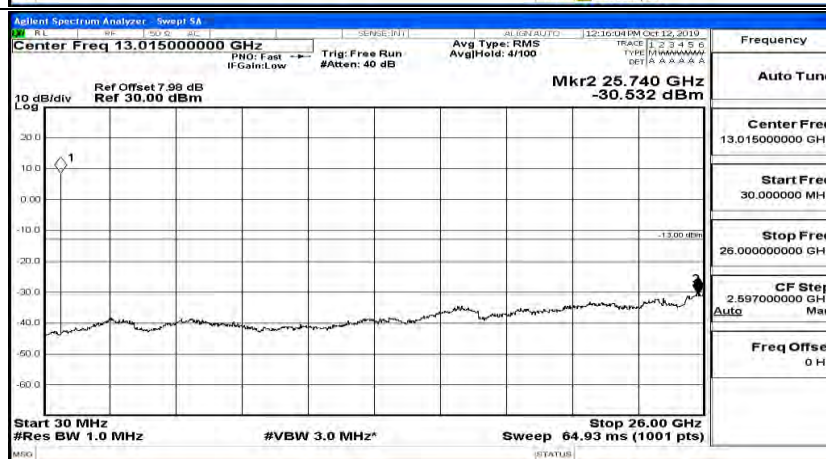
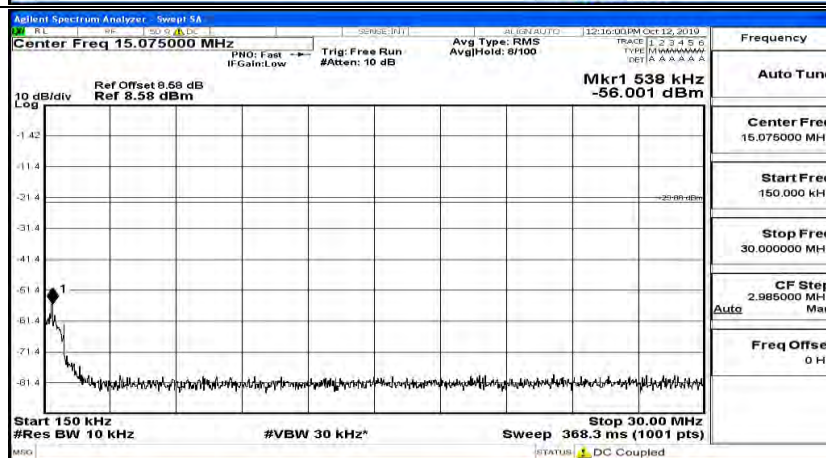
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



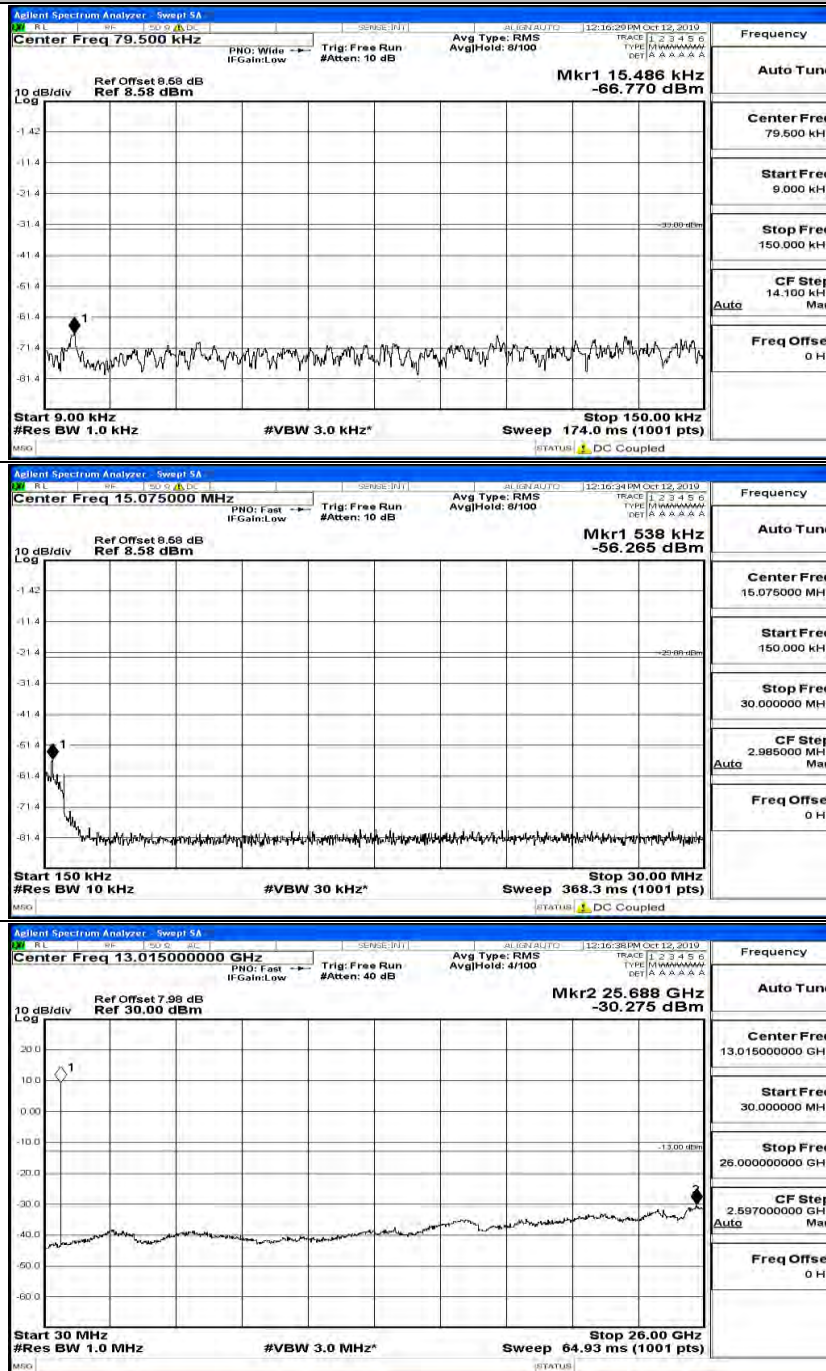
G.5 Conducted Spurious Emission

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

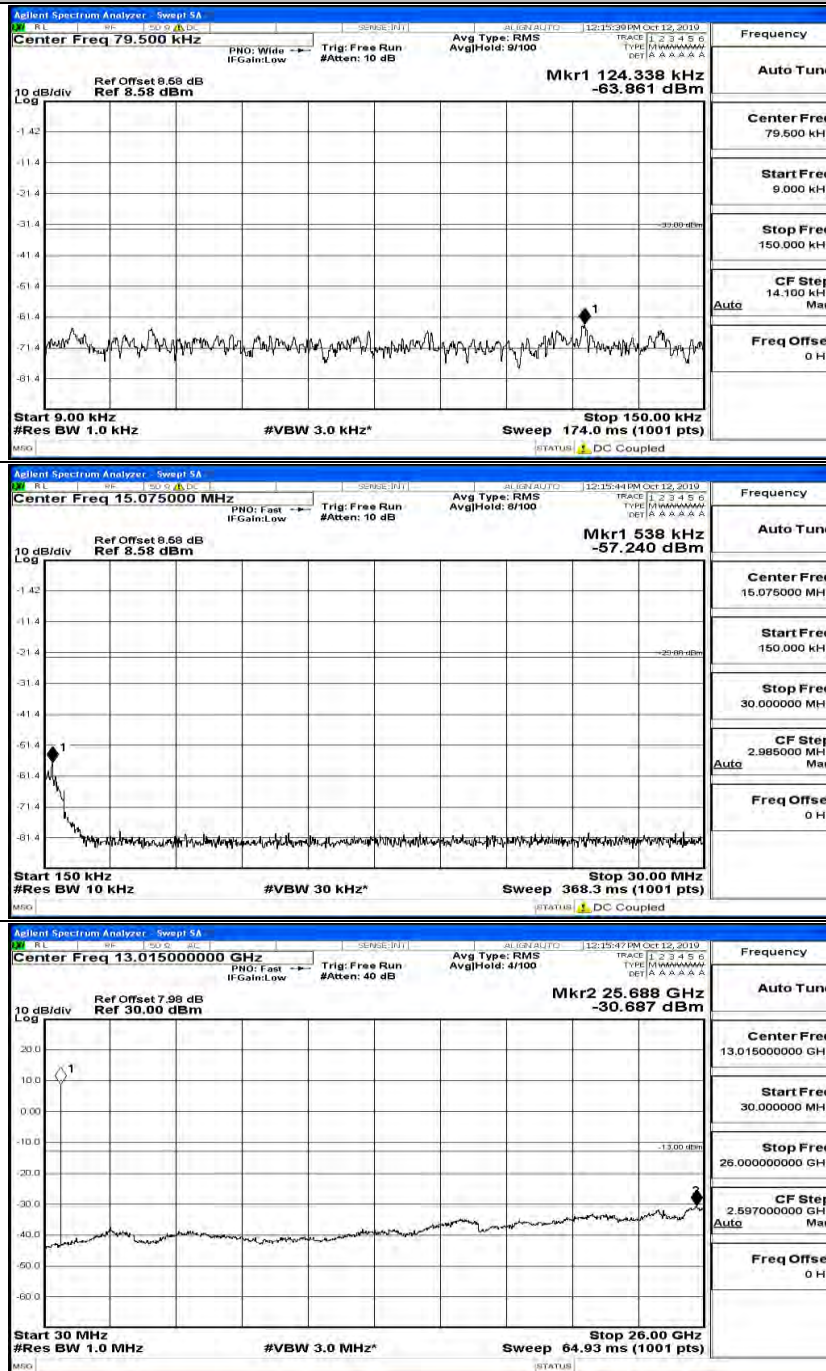


[illegible]

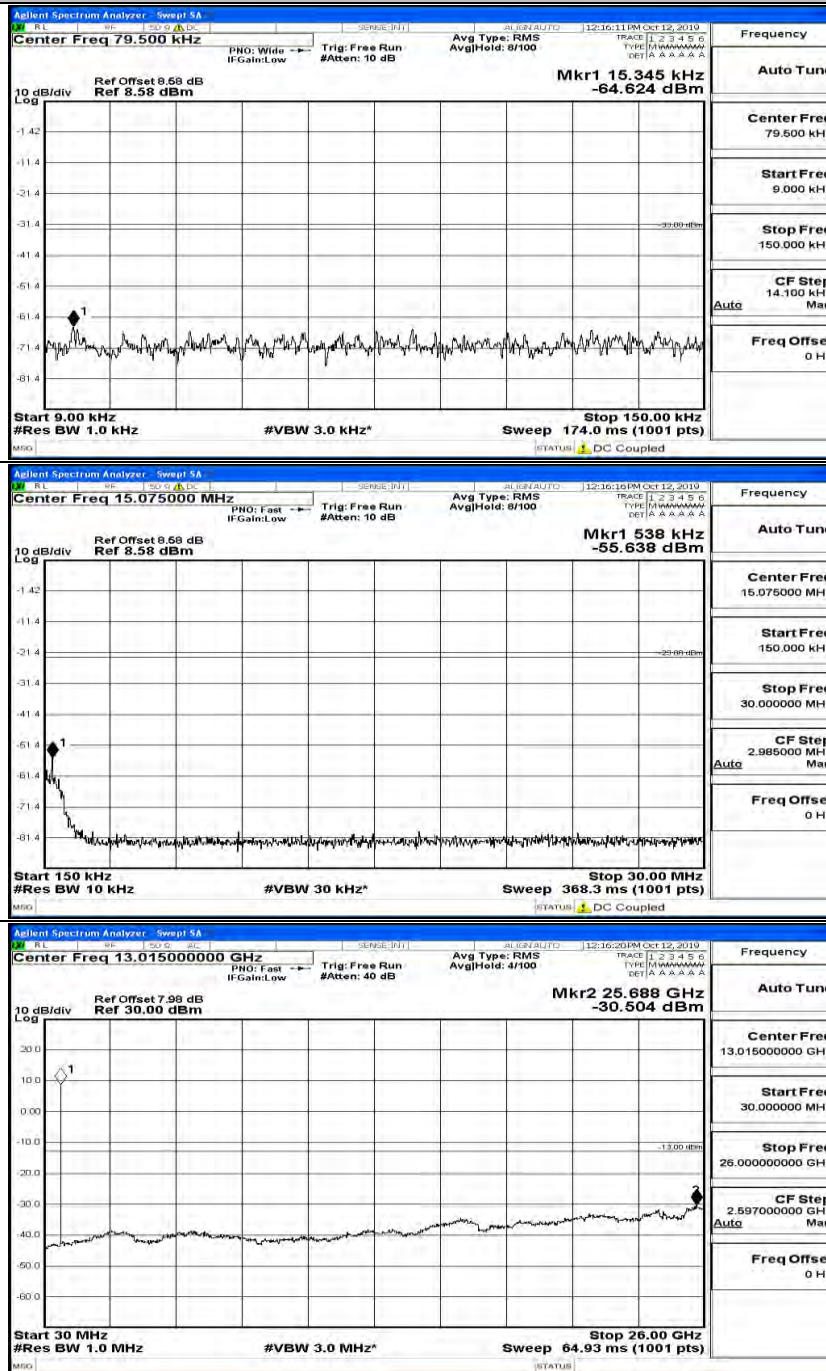
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz) HCH_QPSK



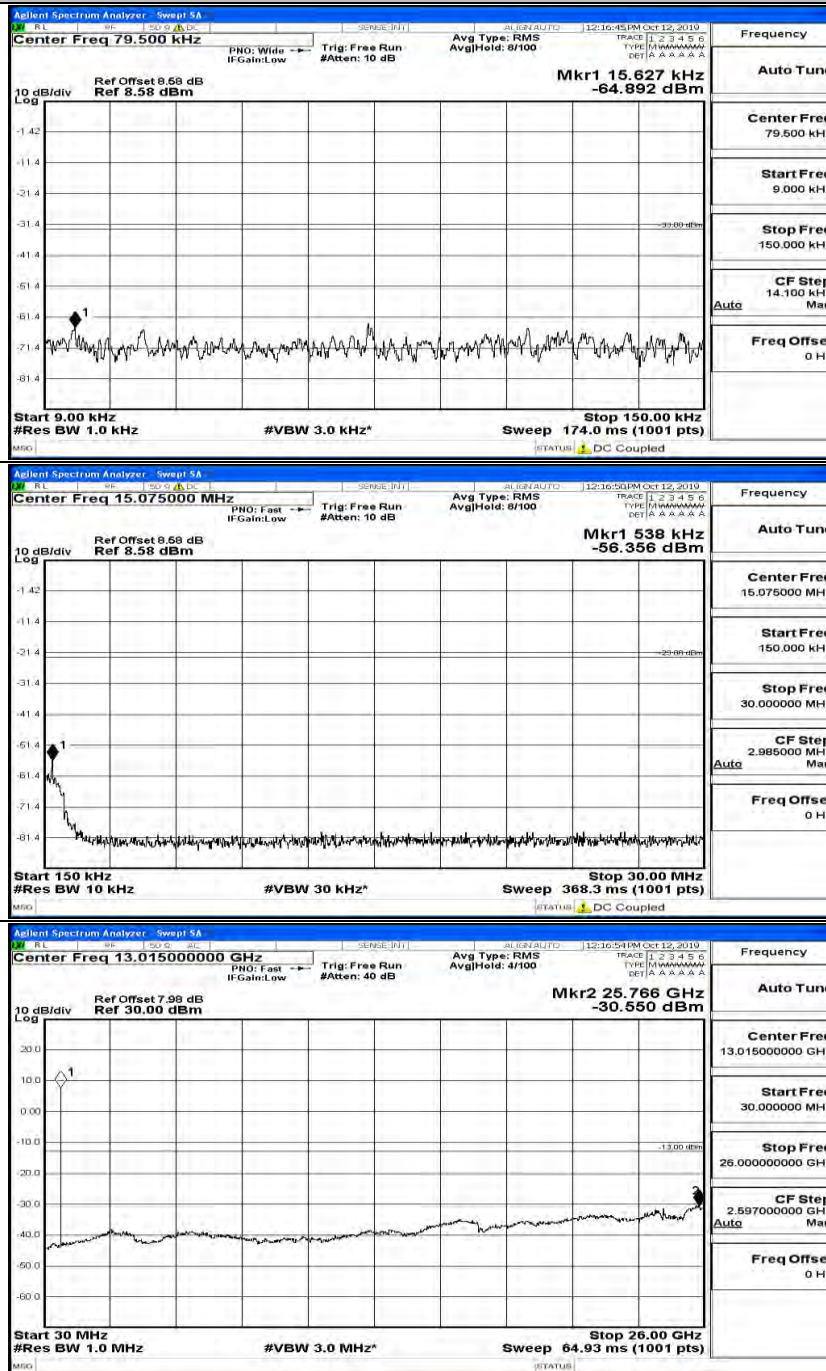
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



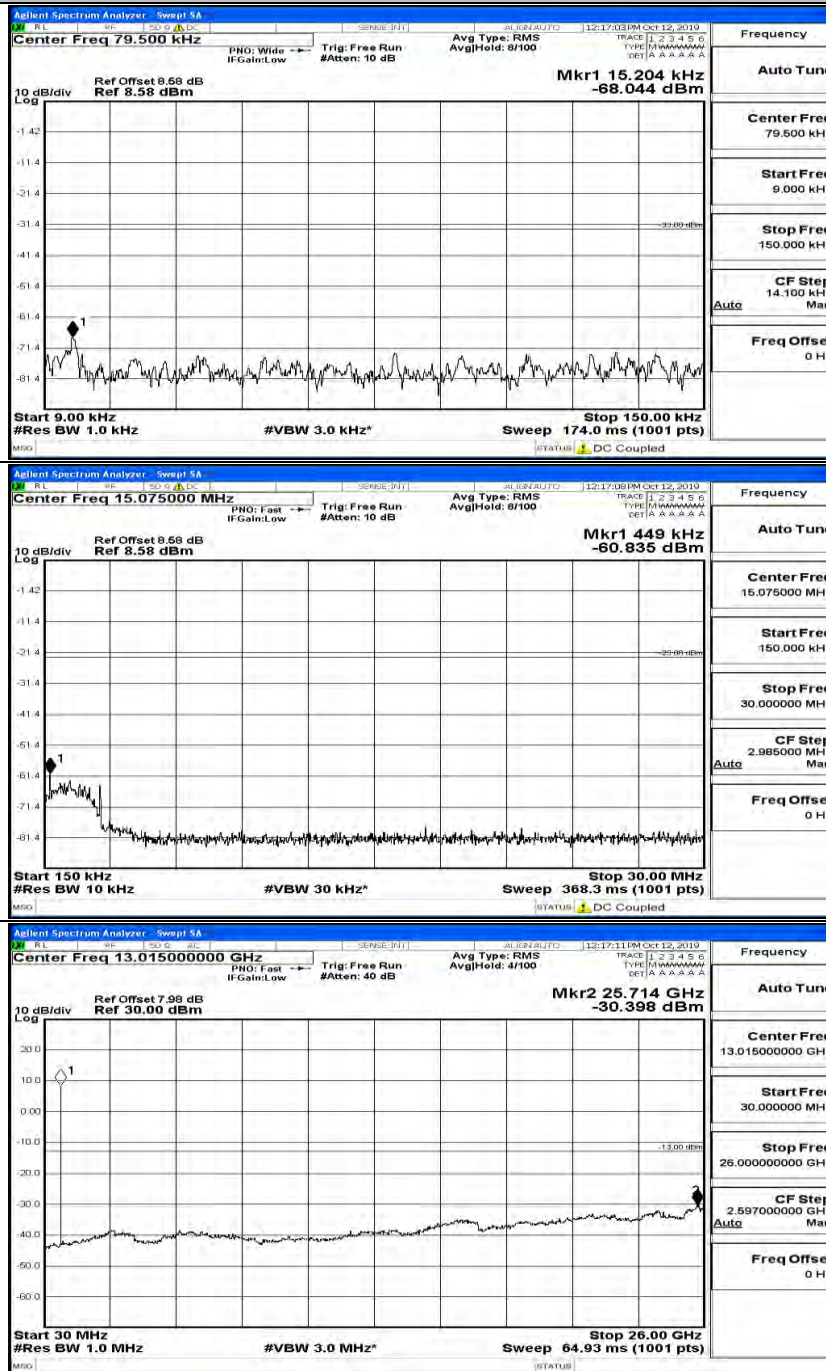
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



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



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



Agilent Spectrum Analyzer - Sweep SA

Center Freq 79.500 kHz

Ref Offset 8.55 dB
Ref 8.58 dBm

10 dB/div
Log

Start 9.00 kHz
#Res BW 1.0 kHz

#VBW 3.0 kHz*

Stop 150.00 kHz
Sweep 174.0 ms (1001 pts)

Mkr1 15.063 kHz
-69.709 dBm

Frequency: Auto Tun

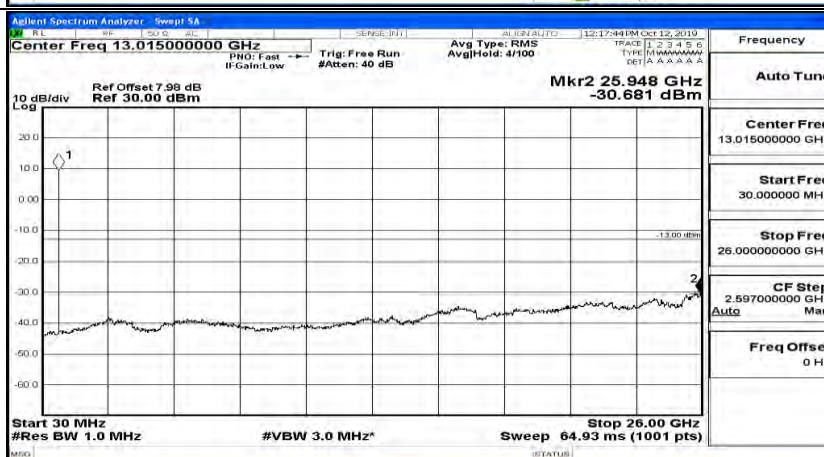
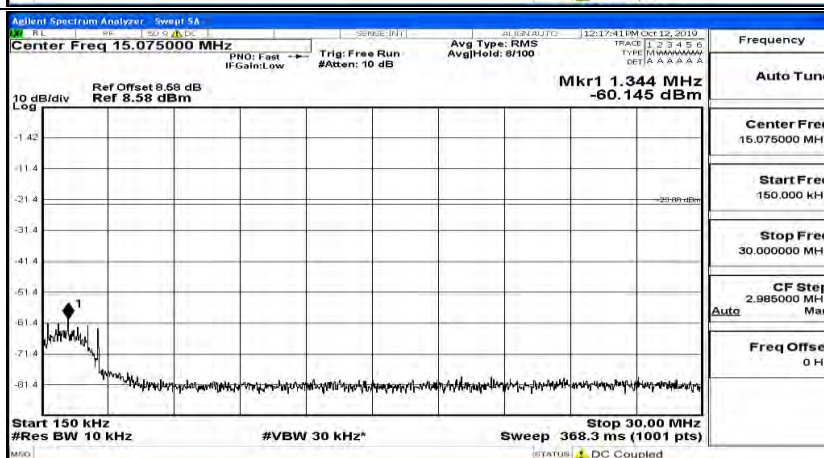
Center Freq: 79.500 kHz

Start Freq: 9.000 kHz

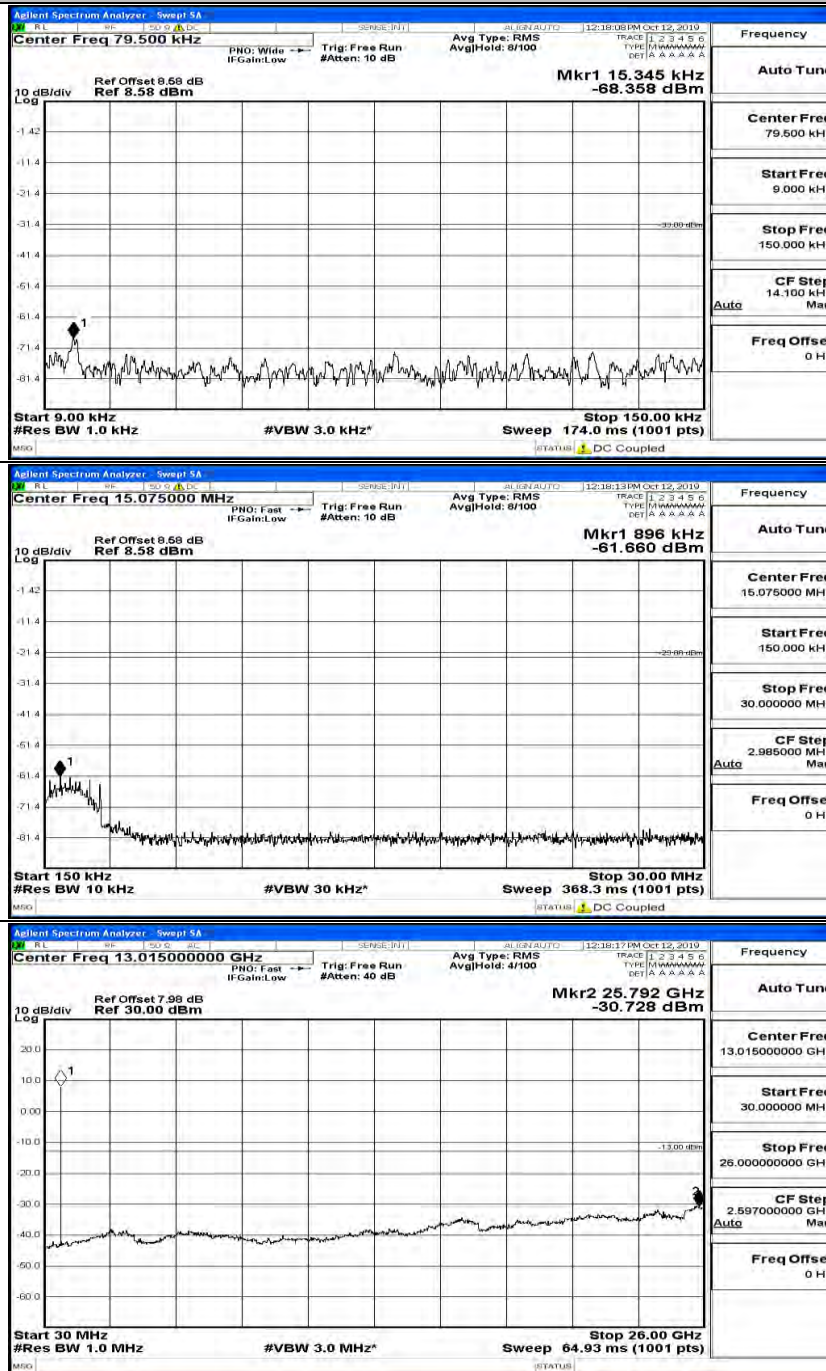
Stop Freq: 150.000 kHz

CF Step: 14.100 kHz
Auto

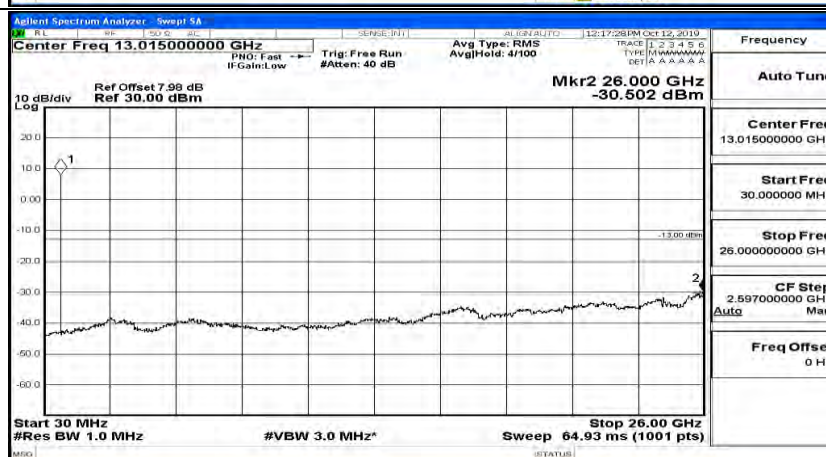
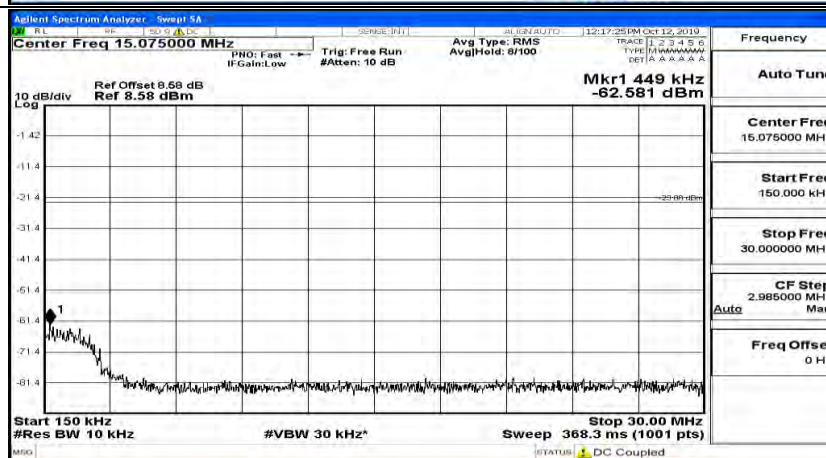
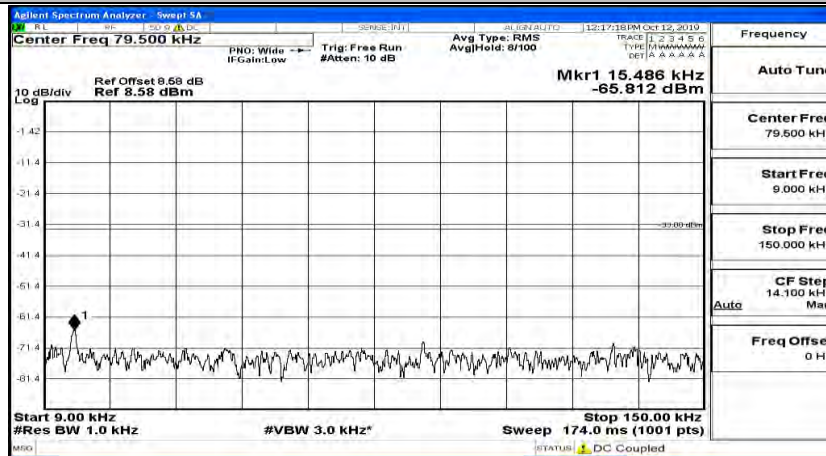
Freq Offset: 0 Hz



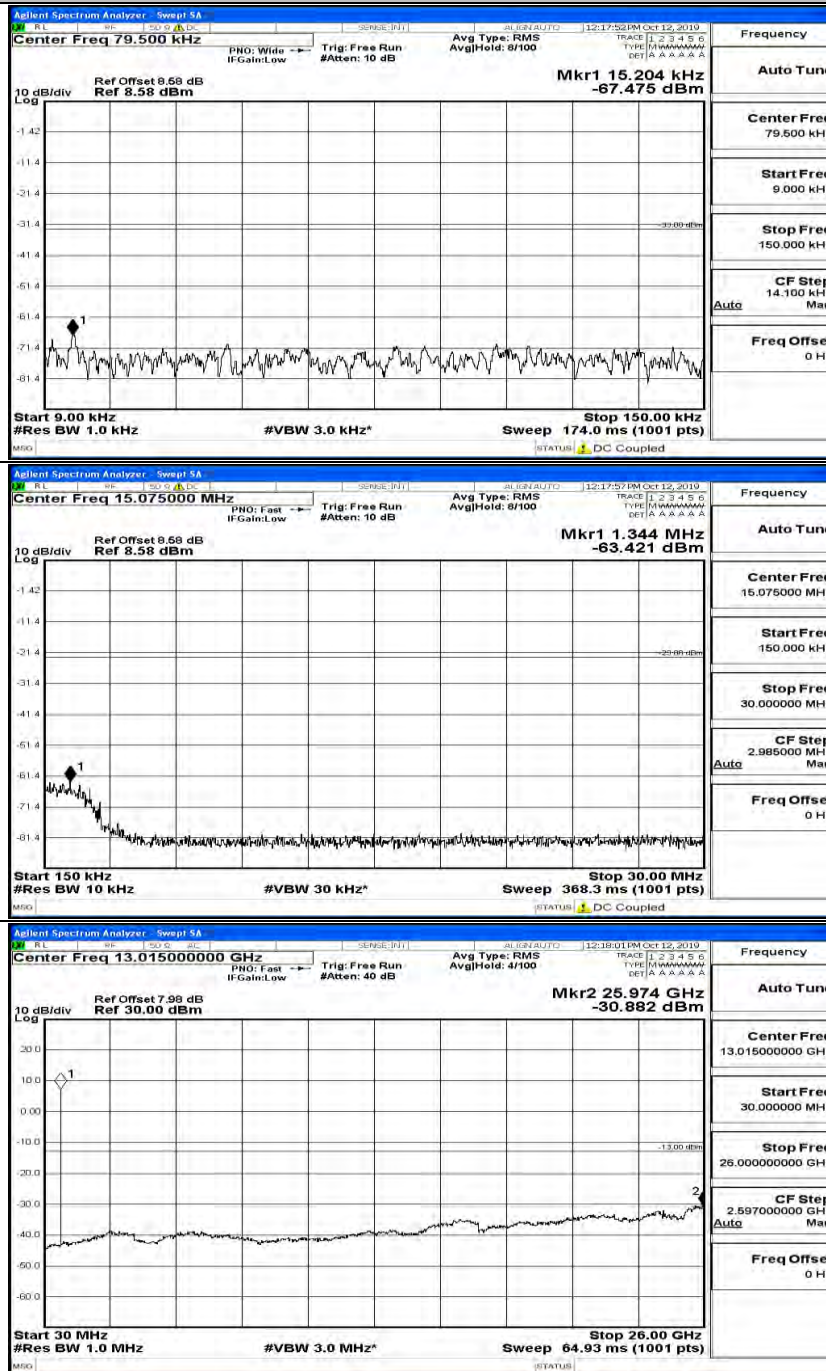
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



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



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



Agilent Spectrum Analyzer - Sweep SA

UNIT: Hz, Resolution: 300.0 Hz, Span: 300.0 kHz, Center Freq: 79.500 kHz, Ref Offset: 9.58 dB, Ref: 8.58 dBm, Trg: Free Run, #Atten: 10 dB, Avg Type: RMS, AvgHold: 8/100, Trace: [1 2 3 4 5 6], Type: [B W H A M A M], Det: [A A A A A A]

Frequency: Auto Tune

Center Freq: 79.500 kHz

Start Freq: 9.000 kHz

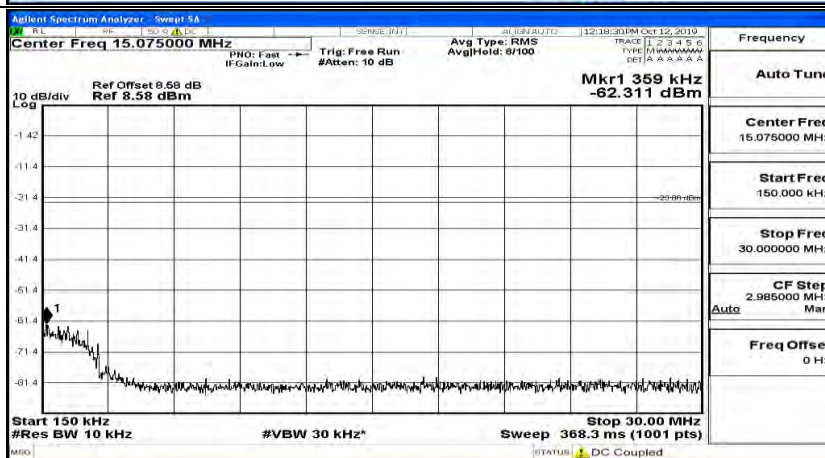
Stop Freq: 150.000 kHz

CF Step: 14.100 kHz, Marker: Mark

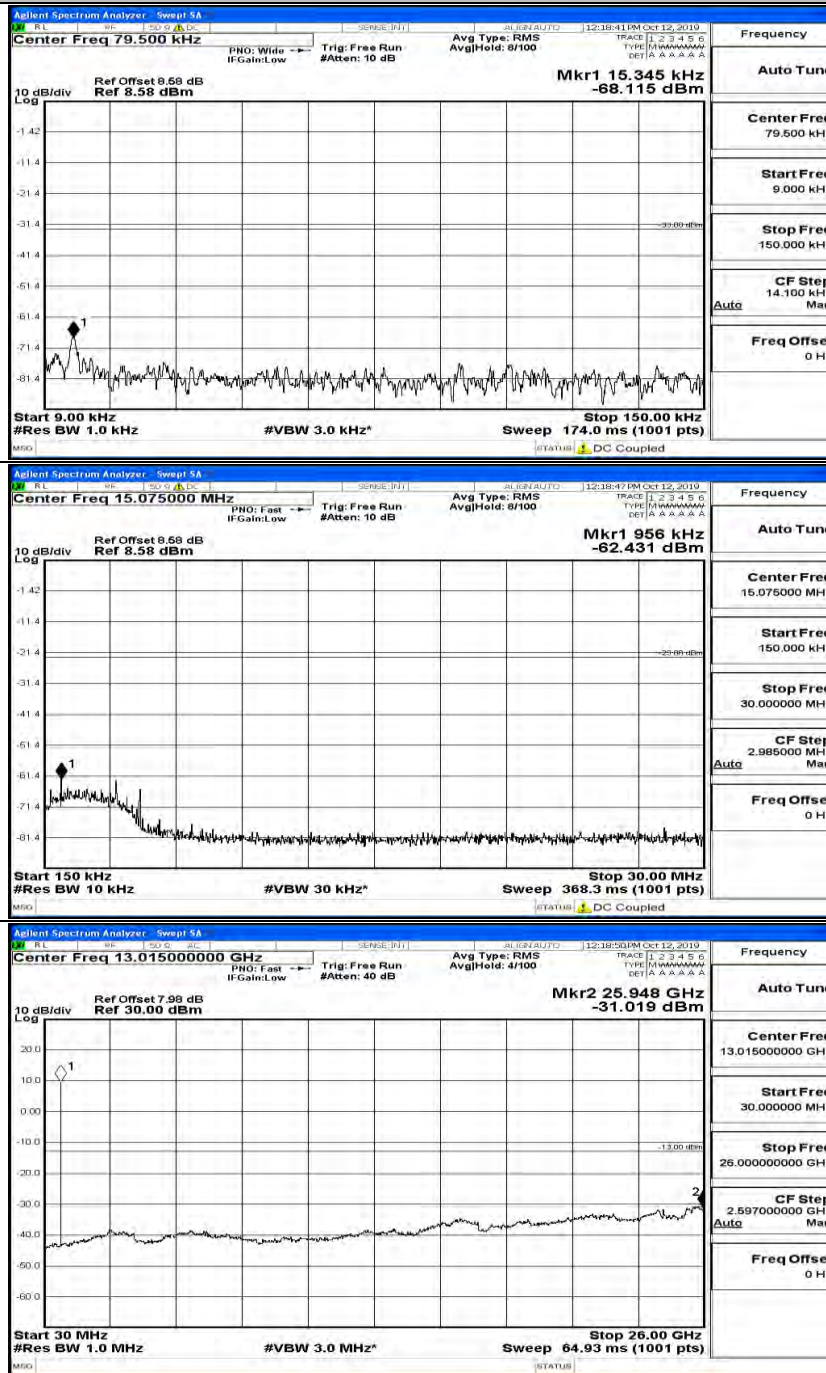
Auto

Freq Offset: 0 Hz

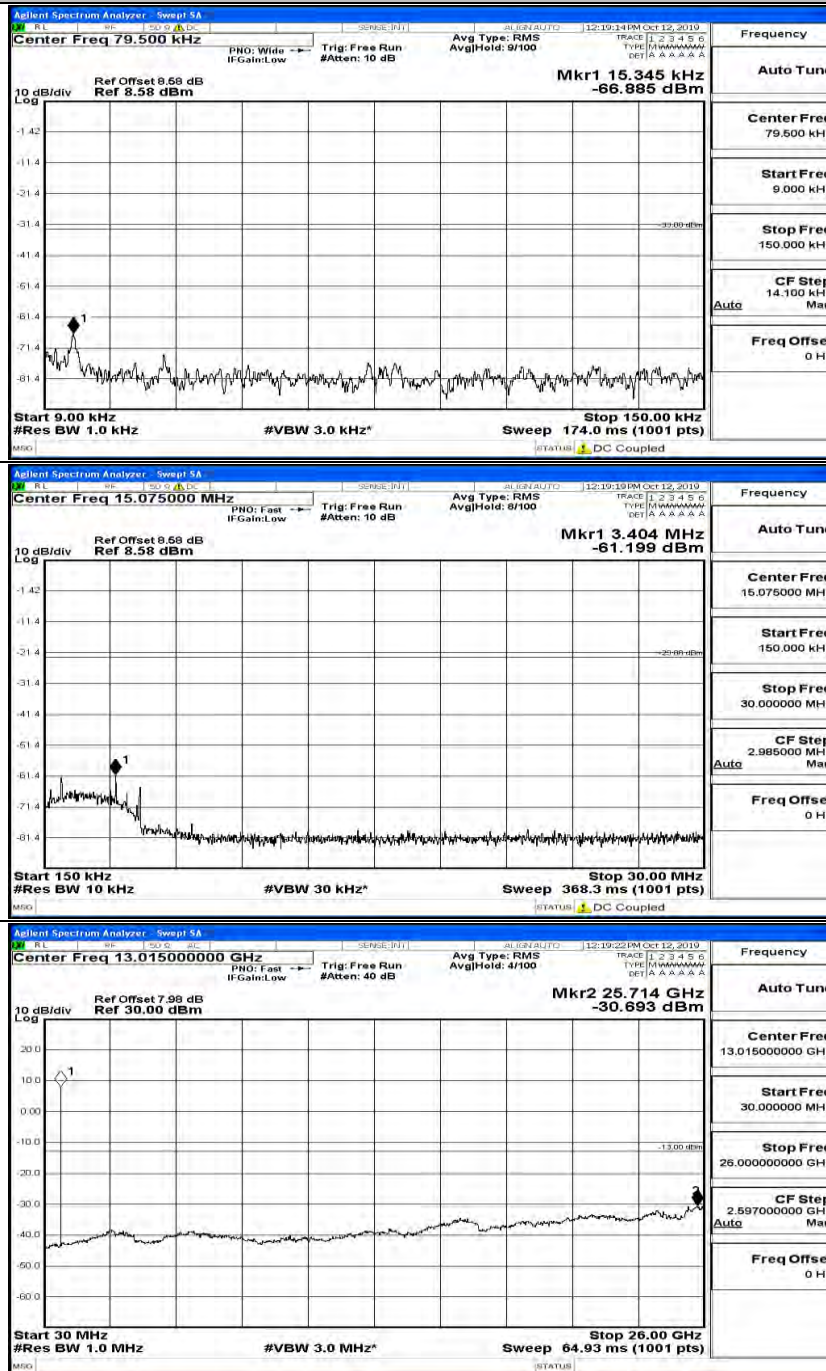
10 dB/Div, Log, -1.42, -1.14, -0.86, -0.58, -0.30, -0.02, 0.26, 0.54, 0.82, 1.10, 1.38, 1.66, 1.94, 2.22, 2.50, 2.78, 3.06, 3.34, 3.62, 3.90, 4.18, 4.46, 4.74, 5.02, 5.30, 5.58, 5.86, 6.14, 6.42, 6.70, 6.98, 7.26, 7.54, 7.82, 8.10, 8.38, 8.66, 8.94, 9.22, 9.50, 9.78, 10.06, 10.34, 10.62, 10.90, 11.18, 11.46, 11.74, 12.02, 12.30, 12.58, 12.86, 13.14, 13.42, 13.70, 13.98, 14.26, 14.54, 14.82, 15.10, 15.38, 15.66, 15.94, 16.22, 16.50, 16.78, 17.06, 17.34, 17.62, 17.90, 18.18, 18.46, 18.74, 19.02, 19.30, 19.58, 19.86, 20.14, 20.42, 20.70, 21.00, 21.30, 21.60, 21.90, 22.20, 22.50, 22.80, 23.10, 23.40, 23.70, 24.00, 24.30, 24.60, 24.90, 25.20, 25.50, 25.80, 26.10, 26.40, 26.70, 27.00, 27.30, 27.60, 27.90, 28.20, 28.50, 28.80, 29.10, 29.40, 29.70, 30.00, 30.30, 30.60, 30.90, 31.20, 31.50, 31.80, 32.10, 32.40, 32.70, 33.00, 33.30, 33.60, 33.90, 34.20, 34.50, 34.80, 35.10, 35.40, 35.70, 36.00, 36.30, 36.60, 36.90, 37.20, 37.50, 37.80, 38.10, 38.40, 38.70, 39.00, 39.30, 39.60, 39.90, 40.20, 40.50, 40.80, 41.10, 41.40, 41.70, 42.00, 42.30, 42.60, 42.90, 43.20, 43.50, 43.80, 44.10, 44.40, 44.70, 45.00, 45.30, 45.60, 45.90, 46.20, 46.50, 46.80, 47.10, 47.40, 47.70, 48.00, 48.30, 48.60, 48.90, 49.20, 49.50, 49.80, 50.10, 50.40, 50.70, 51.00, 51.30, 51.60, 51.90, 52.20, 52.50, 52.80, 53.10, 53.40, 53.70, 54.00, 54.30, 54.60, 54.90, 55.20, 55.50, 55.80, 56.10, 56.40, 56.70, 57.00, 57.30, 57.60, 57.90, 58.20, 58.50, 58.80, 59.10, 59.40, 59.70, 60.00, 60.30, 60.60, 60.90, 61.20, 61.50, 61.80, 62.10, 62.40, 62.70, 63.00, 63.30, 63.60, 63.90, 64.20, 64.50, 64.80, 65.10, 65.40, 65.70, 66.00, 66.30, 66.60, 66.90, 67.20, 67.50, 67.80, 68.10, 68.40, 68.70, 69.00, 69.30, 69.60, 69.90, 70.20, 70.50, 70.80, 71.10, 71.40, 71.70, 72.00, 72.30, 72.60, 72.90, 73.20, 73.50, 73.80, 74.10, 74.40, 74.70, 75.00, 75.30, 75.60, 75.90, 76.20, 76.50, 76.80, 77.10, 77.40, 77.70, 78.00, 78.30, 78.60, 78.90, 79.20, 79.50, 79.80, 80.10, 80.40, 80.70, 81.00, 81.30, 81.60, 81.90, 82.20, 82.50, 82.80, 83.10, 83.40, 83.70, 84.00, 84.30, 84.60, 84.90, 85.20, 85.50, 85.80, 86.10, 86.40, 86.70, 87.00, 87.30, 87.60, 87.90, 88.20, 88.50, 88.80, 89.10, 89.40, 89.70, 90.00, 90.30, 90.60, 90.90, 91.20, 91.50, 91.80, 92.10, 92.40, 92.70, 93.00, 93.30, 93.60, 93.90, 94.20, 94.50, 94.80, 95.10, 95.40, 95.70, 96.00, 96.30, 96.60, 96.90, 97.20, 97.50, 97.80, 98.10, 98.40, 98.70, 99.00, 99.30, 99.60, 99.90, 100.20, 100.50, 100.80, 101.10, 101.40, 101.70, 102.00, 102.30, 102.60, 102.90, 103.20, 103.50, 103.80, 104.10, 104.40, 104.70, 105.00, 105.30, 105.60, 105.90, 106.20, 106.50, 106.80, 107.10, 107.40, 107.70, 108.00, 108.30, 108.60, 108.90, 109.20, 109.50, 109.80, 110.10, 110.40, 110.70, 111.00, 111.30, 111.60, 111.90, 112.20, 112.50, 112.80, 113.10, 113.40, 113.70, 114.00, 114.30, 114.60, 114.90, 115.20, 115.50, 115.80, 116.10, 116.40, 116.70, 117.00, 117.30, 117.60, 117.90, 118.20, 118.50, 118.80, 119.10, 119.40, 119.70, 120.00, 120.30, 120.60, 120.90, 121.20, 121.50, 121.80, 122.10, 122.40, 122.70, 123.00, 123.30, 123.60, 123.90, 124.20, 124.50, 124.80, 125.10, 125.40, 125.70, 126.00, 126.30, 126.60, 126.90, 127.20, 127.50, 127.80, 128.10, 128.40, 128.70, 129.00, 129.30, 129.60, 129.90, 130.20, 130.50, 130.80, 131.10, 131.40, 131.70, 132.00, 132.30, 132.60, 132.90, 133.20, 133.50, 133.80, 134.10, 134.40, 134.70, 135.00, 135.30, 135.60, 135.90, 136.20, 136.50, 136.80, 137.10, 137.40, 137.70, 138.00, 138.30, 138.60, 138.90, 139.20, 139.50, 139.80, 140.10, 140.40, 140.70, 141.00, 141.30, 141.60, 141.90, 142.20, 142.50, 142.80, 143.10, 143.40, 143.70, 144.00, 144.30, 144.60, 144.90, 145.20, 145.50, 145.80, 146.10, 146.40, 146.70, 147.00, 147.30, 147.60, 147.90, 148.20, 148.50, 148.80, 149.10, 149.40, 149.70, 150.00, 150.30, 150.60, 150.90, 151.20, 151.50, 151.80, 152.10, 152.40, 152.70, 153.00, 153.30, 153.60, 153.90, 154.20, 154.50, 154.80, 155.10, 155.40, 15



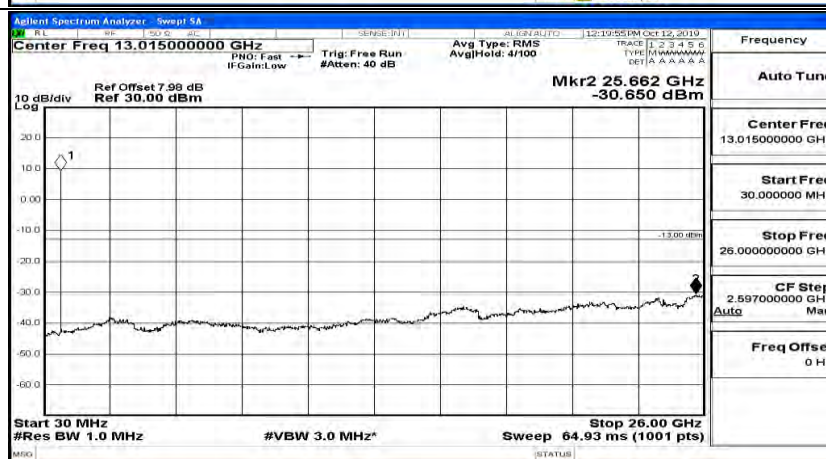
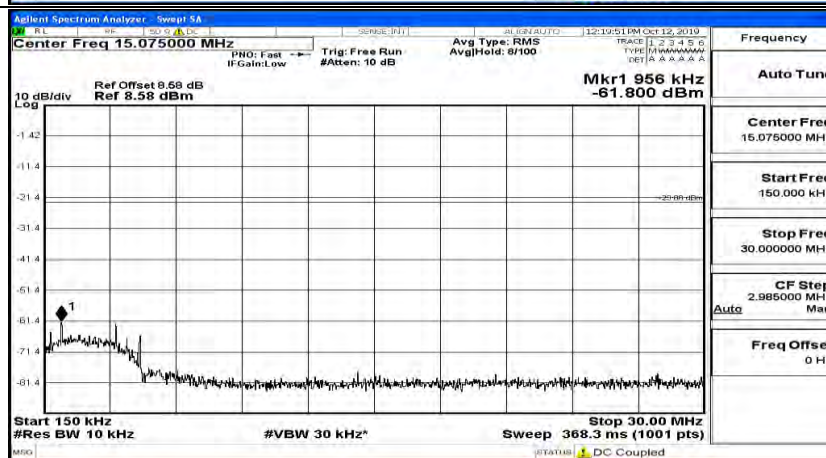
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



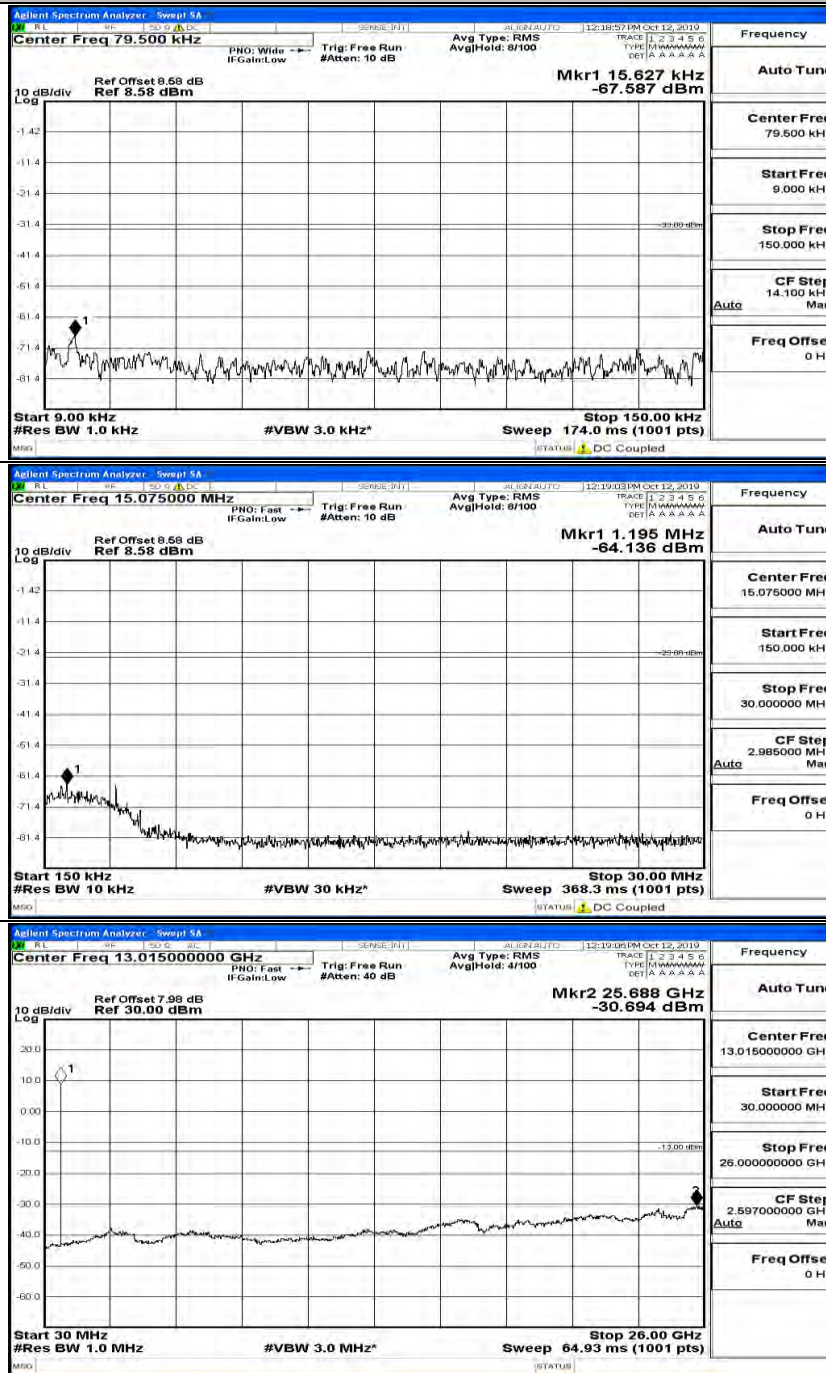
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



Patient Spectrum Analyzer - Swat SA
 RL 12-10-16 PM Oct 12, 2019
 Center Freq 79.500 kHz
 PNO: Wide → IF Gain: Low
 Trig: Free Run #Atten: 10 dB
 Avg Type: RMS AvgHold: 9/100
 TRACE 1 2 3 4 5 6
 TYPE: B W A A A A A A
 DET: A A A A A A A A
 Frequency
 Auto Tun
 Center Freq 79.500 kHz
 Start Freq 9.000 kHz
 Stop Freq 150.000 kHz
 CF Step 14.100 kHz
 Auto Mar
 Freq Offset 0 Hz
 10 dB/Div Log
 Ref Offset 8.58 dB Ref 8.58 dBm
 Mkr1 15.204 kHz -68.278 dBm
 Start 9.00 kHz #VBW 3.0 kHz* Stop 150.00 kHz
 #Res BW 1.0 kHz Sweep 174.0 ms (1001 pts)
 M550 Status DC Coupled



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



Agilent Spectrum Analyzer - Sweep SA

FAL 09/07/2019 16:08

PHO: Wide → IF Gain: Low Trig: Free Run #Atten: 10 dB Avg Type: RMS AvgHold: 8/100

Mkr1 15.627 kHz -67.483 dBm

Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz* Stop 150.00 kHz Sweep 174.0 ms (1001 pts)

Ref Offset 9.58 dB Ref 8.58 dBm

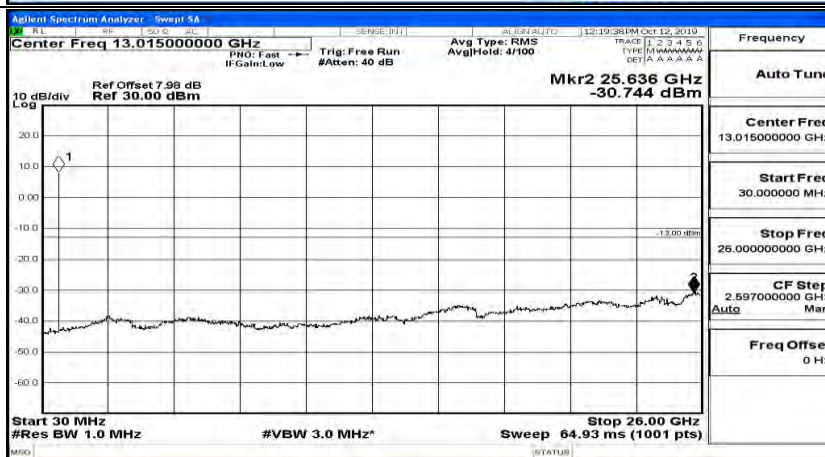
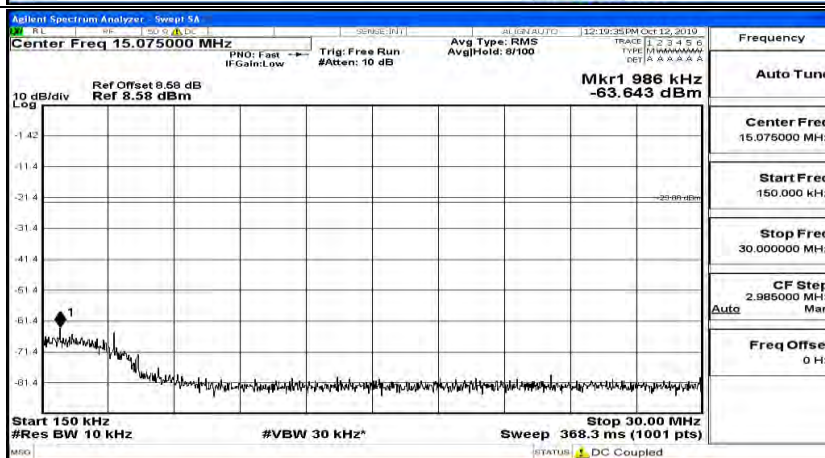
10 dB/div Log

-1.42
-1.14
-21.4
-31.4
-41.4
-51.4
-61.4
-71.4
-81.4

30.00 dBm

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

(MAG) (STATUS) DC Coupled



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

Graph 1: 79.500 kHz

Agilent Spectrum Analyzer - Sweep 5A		Frequency
Center Freq 79.500 kHz	Mkr1 15.204 kHz -66.930 dBm	Auto Tune
Start 9.00 kHz	Stop 150.00 kHz	Center Freq 79.500 kHz
#Res BW 1.0 kHz	Sweep 174.0 ms (1001 pts)	Start Freq 9.000 kHz
#VBW 3.0 kHz		Stop Freq 150.000 kHz
		CF Step 14.100 kHz
		Auto
		Freq Offset 0 Hz

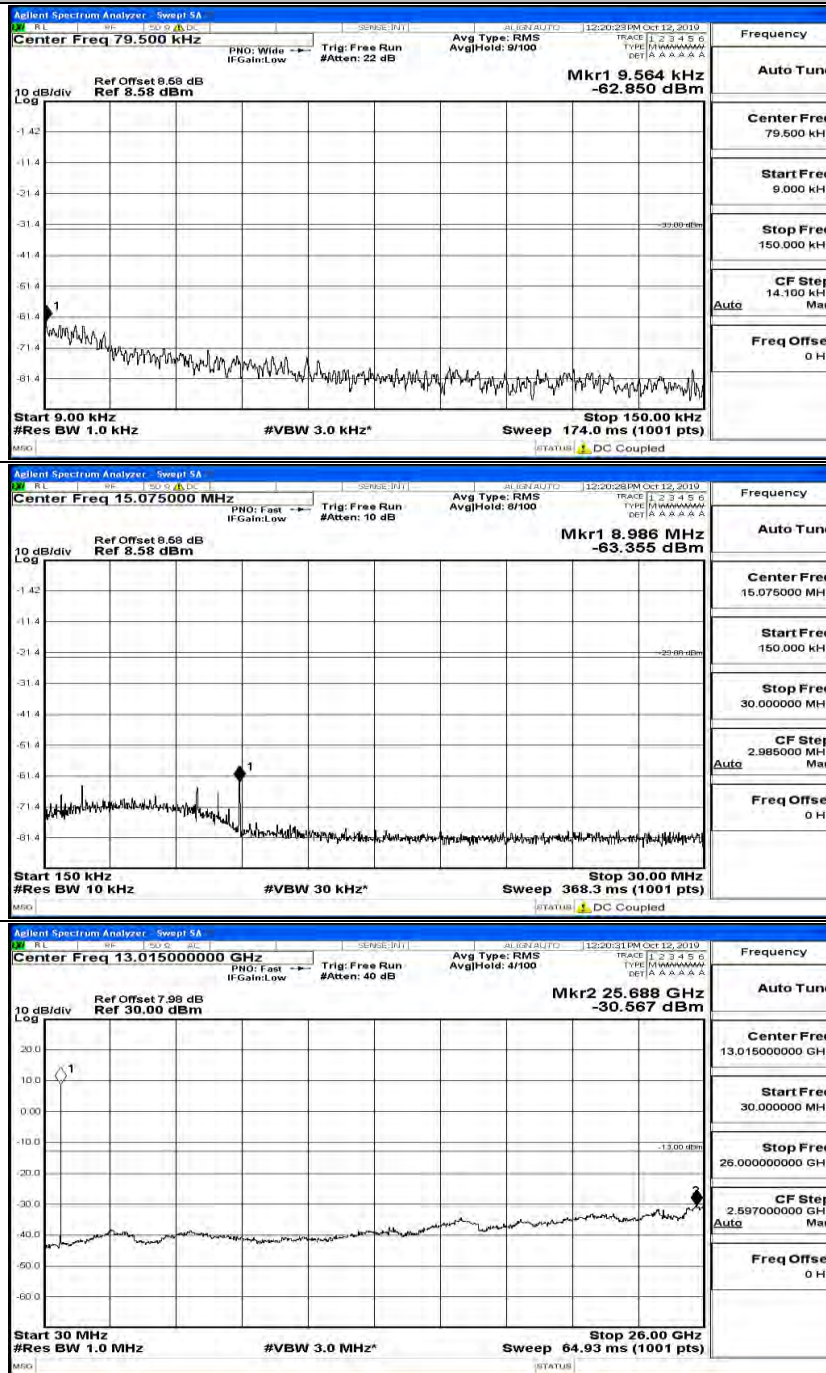
Graph 2: 15.075000 MHz

Agilent Spectrum Analyzer - Sweep 5A		Frequency
Center Freq 15.075000 MHz	Mkr1 986 kHz -63.588 dBm	Auto Tune
Start 150 kHz	Stop 30.00 MHz	Center Freq 15.075000 MHz
#Res BW 10 kHz	Sweep 368.3 ms (1001 pts)	Start Freq 150.000 kHz
#VBW 30 kHz		Stop Freq 30.000000 MHz
		CF Step 2.985000 MHz
		Auto
		Freq Offset 0 Hz

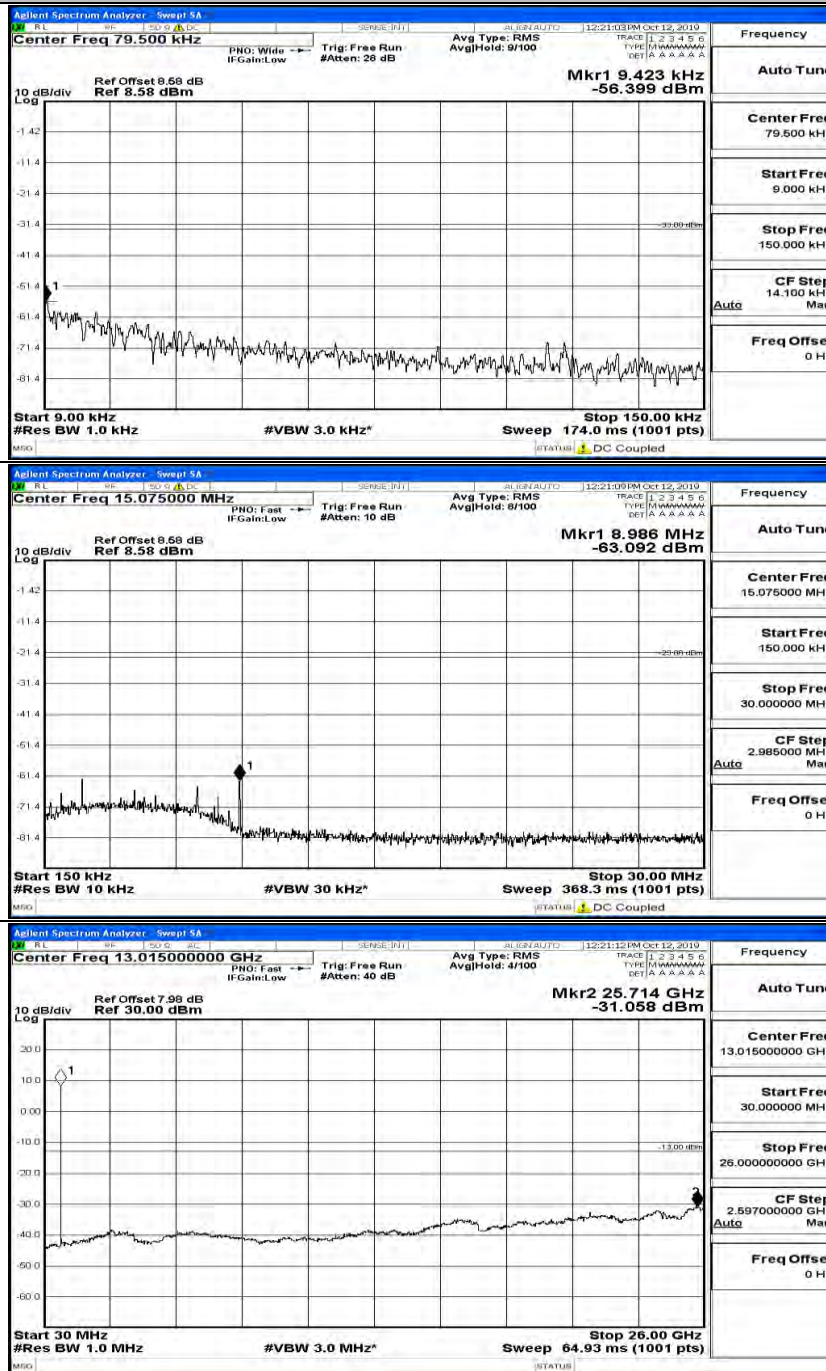
Graph 3: 13.015000000 GHz

Agilent Spectrum Analyzer - Sweep 5A		Frequency
Center Freq 13.015000000 GHz	Mkr2 25.740 GHz -30.421 dBm	Auto Tune
Start 30 MHz	Stop 26.00 GHz	Center Freq 13.015000000 GHz
#Res BW 1.0 MHz	Sweep 64.93 ms (1001 pts)	Start Freq 30.000000 MHz
#VBW 3.0 MHz		Stop Freq 26.000000000 GHz
		CF Step 2.597000000 GHz
		Auto
		Freq Offset 0 Hz

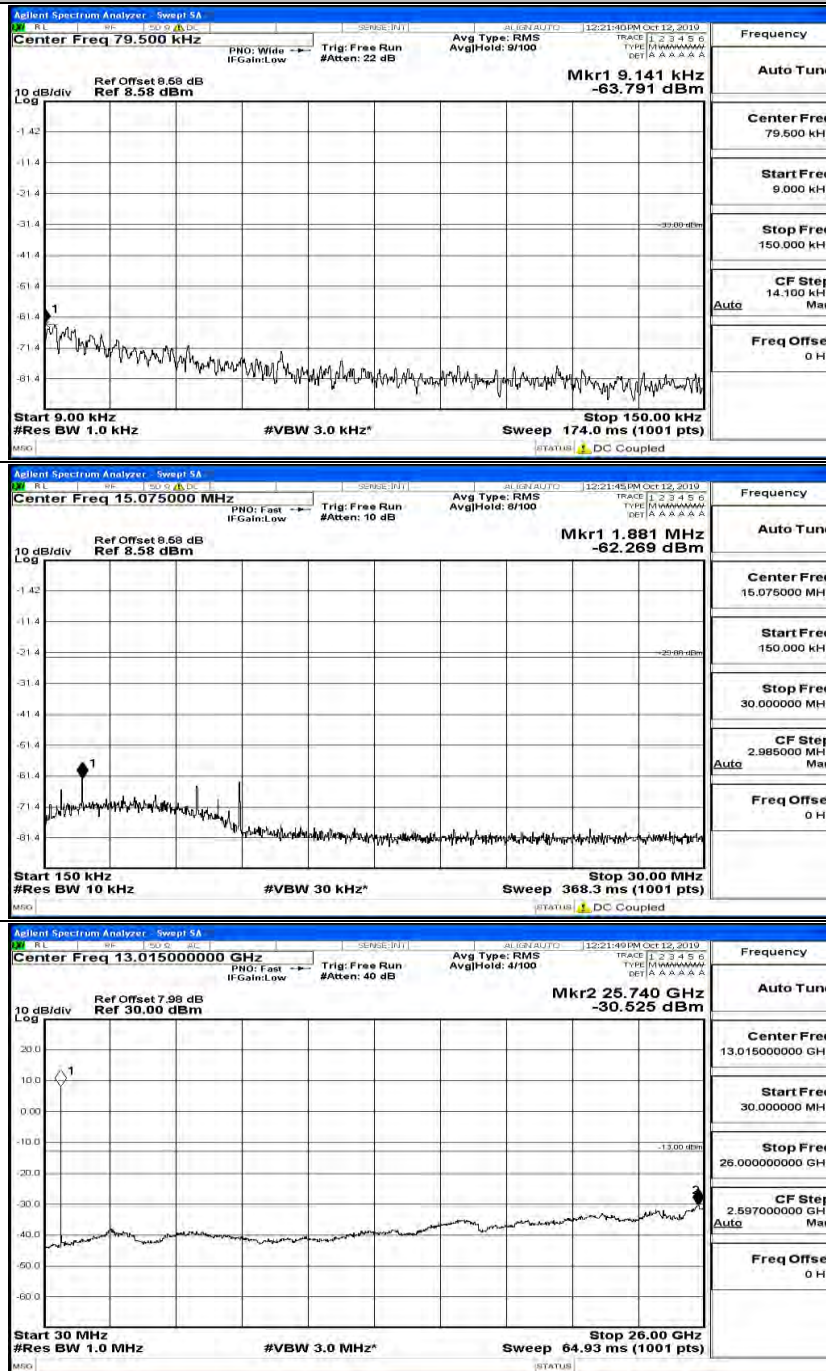
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



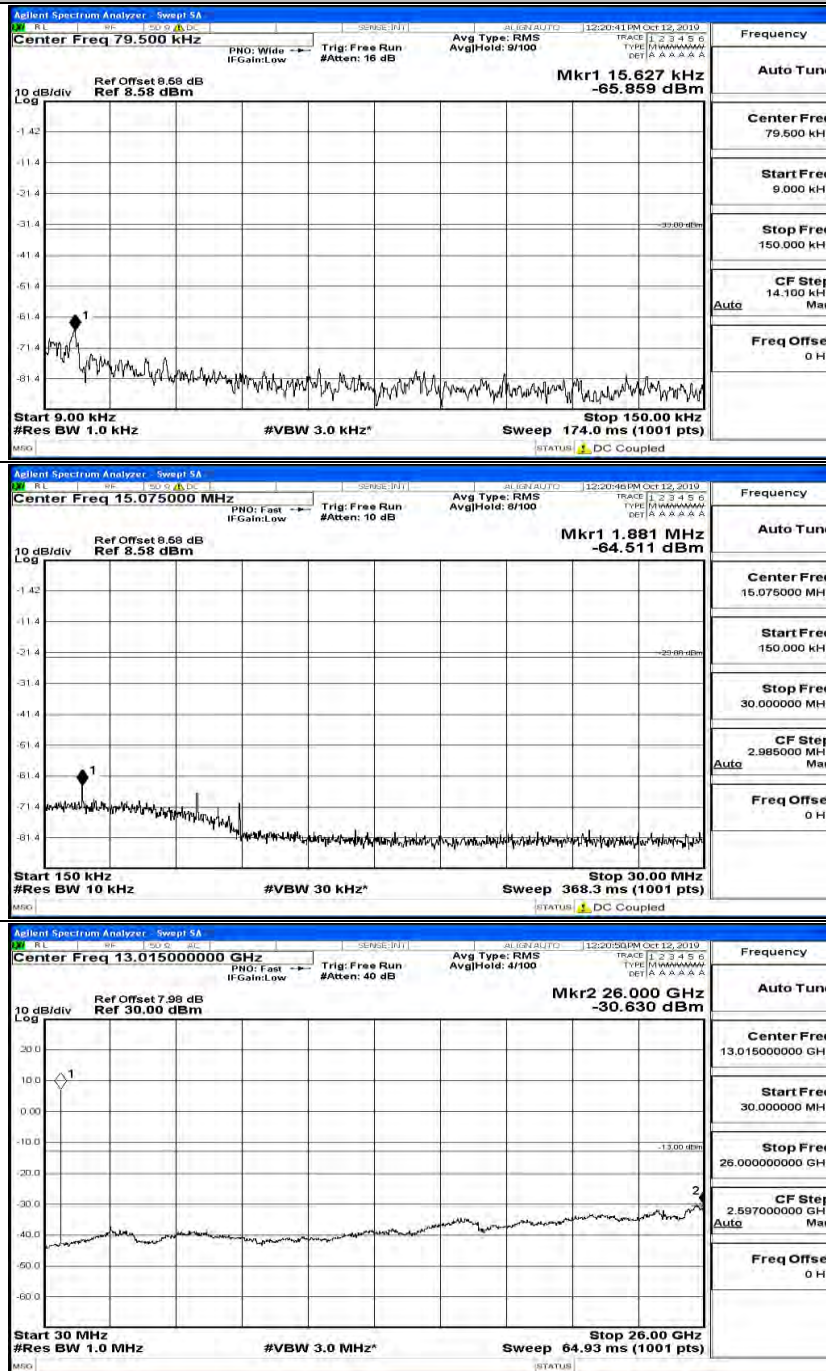
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



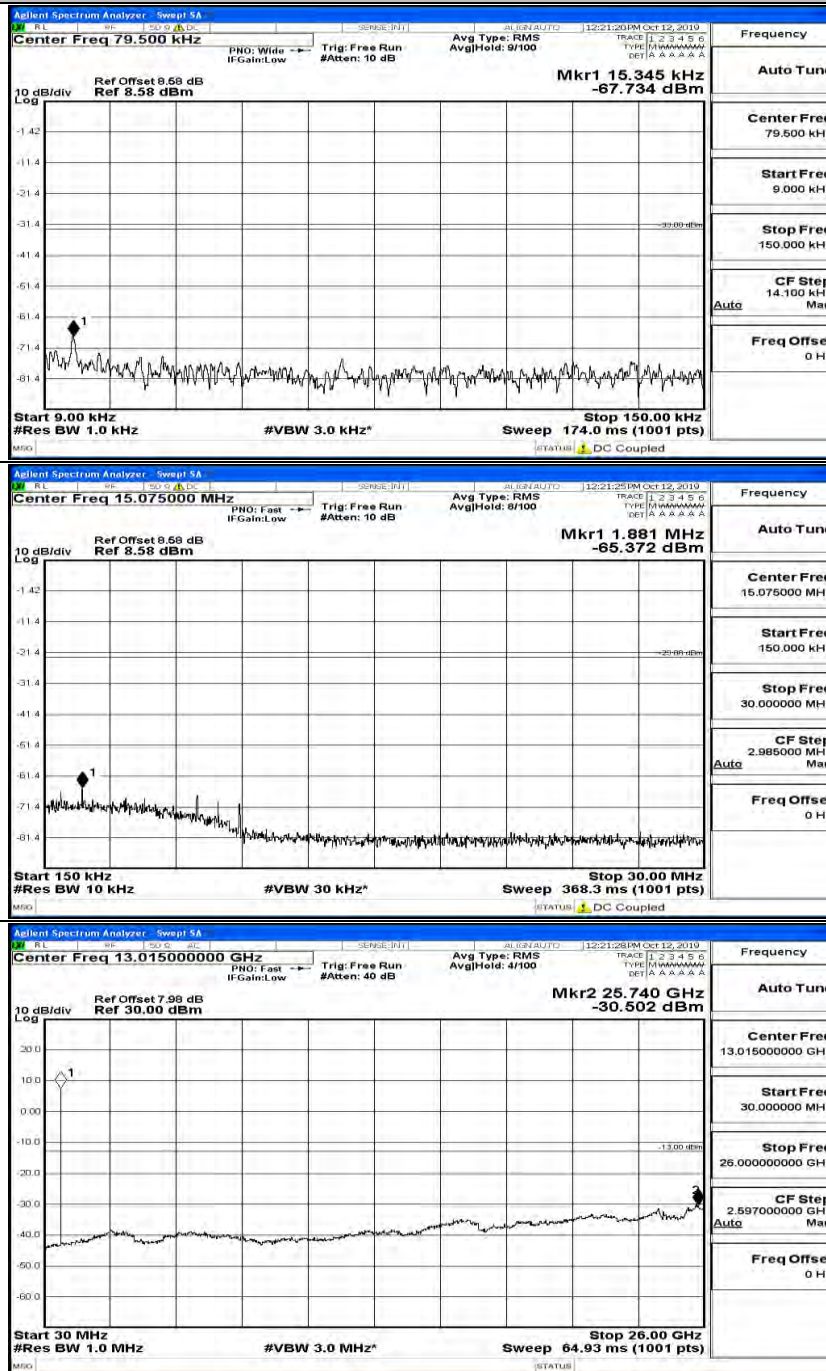
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



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

