Appendix C: Test Data for E-UTRA Band 5

Product Name: LTE GSM/WCDMA Smartphone
Trade Mark: DOOGEE
Test Model: S70 Lite

Environmental Conditions

Temperature:	22.8
Relative Humidity:	53.2
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Jayden Zhuo

C.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	23.30	22.51	PASS
		1	3	23.31	22.64	PASS
		1	5	23.28	22.54	PASS
		3	0	23.31	22.48	PASS
		3	2	23.36	22.49	PASS
		3	3	23.30	22.49	PASS
		6	0	22.45	21.34	PASS
	MCH	1	0	23.31	22.79	PASS
		1	3	23.41	22.82	PASS
		1	5	23.33	22.77	PASS
		3	0	23.43	22.46	PASS
		3	2	23.43	22.53	PASS
		3	3	23.43	22.52	PASS
		6	0	22.49	21.40	PASS
	HCH	1	0	23.33	22.65	PASS
		1	3	23.58	22.88	PASS
		1	5	23.36	22.60	PASS
		3	0	23.45	22.59	PASS
		3	2	23.52	22.61	PASS
		3	3	23.49	22.59	PASS
		6	0	22.56	21.63	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.27	22.54	PASS
		1	7	23.53	22.79	PASS
		1	14	23.28	22.54	PASS
		8	0	22.42	21.40	PASS
		8	4	22.47	21.49	PASS
		8	7	22.44	21.44	PASS
		15	0	22.37	21.27	PASS
	MCH	1	0	23.28	22.63	PASS
		1	7	23.56	22.90	PASS
		1	14	23.33	22.67	PASS
		8	0	22.47	21.48	PASS
		8	4	22.52	21.59	PASS
		8	7	22.48	21.53	PASS
		15	0	22.47	21.39	PASS
	HCH	1	0	23.41	22.77	PASS
		1	7	23.61	23.01	PASS
		1	14	23.37	22.81	PASS
		8	0	22.51	21.47	PASS
		8	4	22.58	21.50	PASS
		8	7	22.50	21.45	PASS
		15	0	22.46	21.46	PASS

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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	23.19	22.61	PASS
		1	12	23.58	22.91	PASS
		1	24	23.18	22.61	PASS
		12	0	22.33	21.43	PASS
		12	6	22.45	21.54	PASS
		12	13	22.36	21.43	PASS
		25	0	22.33	21.32	PASS
	MCH	1	0	23.24	22.68	PASS
		1	12	23.63	**23.02**	PASS
		1	24	23.25	22.73	PASS
		12	0	22.41	21.54	PASS
		12	6	22.45	21.63	PASS
		12	13	22.50	21.65	PASS
		25	0	22.48	21.49	PASS
	HCH	1	0	23.31	22.61	PASS
		1	12	**23.81**	22.96	PASS
		1	24	23.35	22.68	PASS
		12	0	22.52	21.64	PASS
		12	6	22.55	21.63	PASS
		12	13	22.39	21.48	PASS
		25	0	22.46	21.46	PASS

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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	23.29	22.59	PASS
		1	24	23.46	22.78	PASS
		1	49	23.32	22.67	PASS
		25	0	22.53	21.51	PASS
		25	12	22.48	21.45	PASS
		25	25	22.38	21.38	PASS
		50	0	22.45	21.41	PASS
	MCH	1	0	23.30	22.64	PASS
		1	24	23.53	22.88	PASS
		1	49	23.34	22.69	PASS
		25	0	22.52	21.48	PASS
		25	12	22.51	21.50	PASS
		25	25	22.64	21.59	PASS
		50	0	22.54	21.52	PASS
	HCH	1	0	23.37	22.77	PASS
		1	24	23.49	22.93	PASS
		1	49	23.39	22.81	PASS
		25	0	22.45	21.46	PASS
		25	12	22.50	21.49	PASS
		25	25	22.37	21.38	PASS
		50	0	22.44	21.40	PASS

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C.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	4.86	<13	PASS
	MCH	5.17	<13	PASS
	HCH	4.83	<13	PASS
16QAM	LCH	5.8	<13	PASS
	MCH	6.07	<13	PASS
	HCH	5.72	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.96	<13	PASS
	MCH	5.23	<13	PASS
	HCH	5.07	<13	PASS
16QAM	LCH	5.92	<13	PASS
	MCH	6.19	<13	PASS
	HCH	5.83	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.95	<13	PASS
	MCH	5.26	<13	PASS
	HCH	5.05	<13	PASS
16QAM	LCH	5.76	<13	PASS
	MCH	6.04	<13	PASS
	HCH	5.87	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.14	<13	PASS
	MCH	5.32	<13	PASS
	HCH	5.22	<13	PASS
16QAM	LCH	5.9	<13	PASS
	MCH	6.06	<13	PASS
	HCH	5.98	<13	PASS

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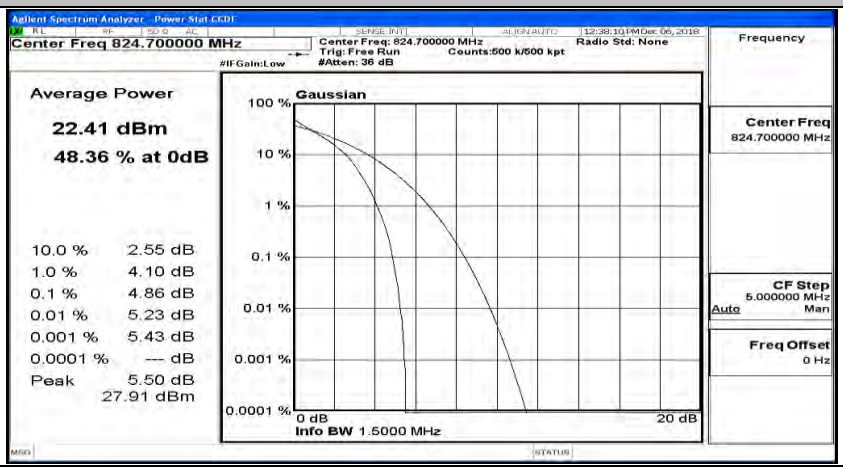
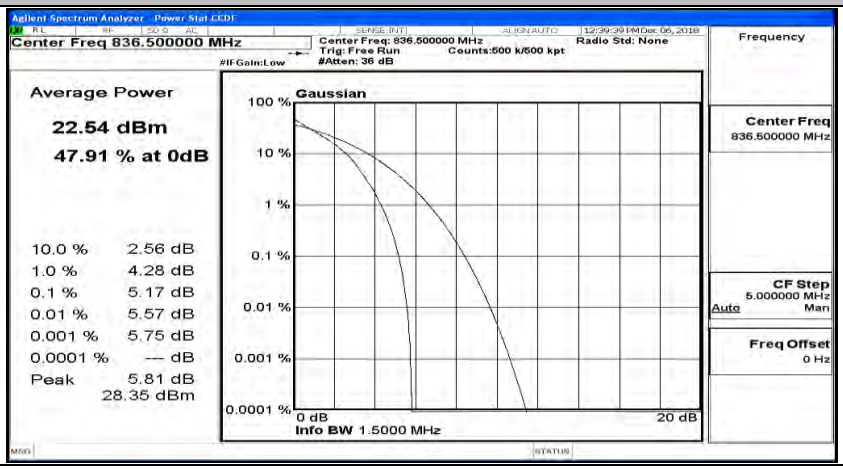
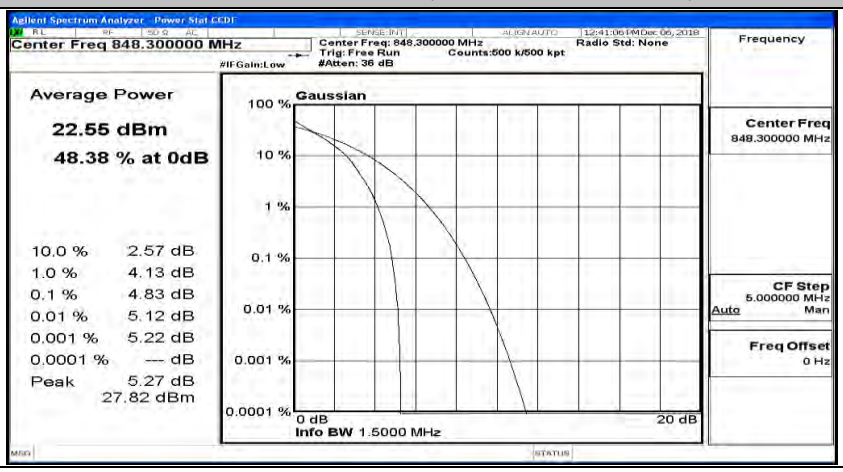
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



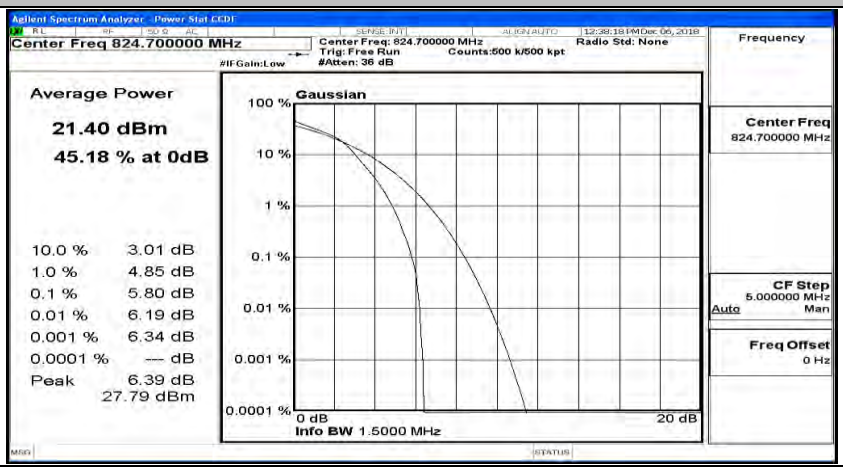
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



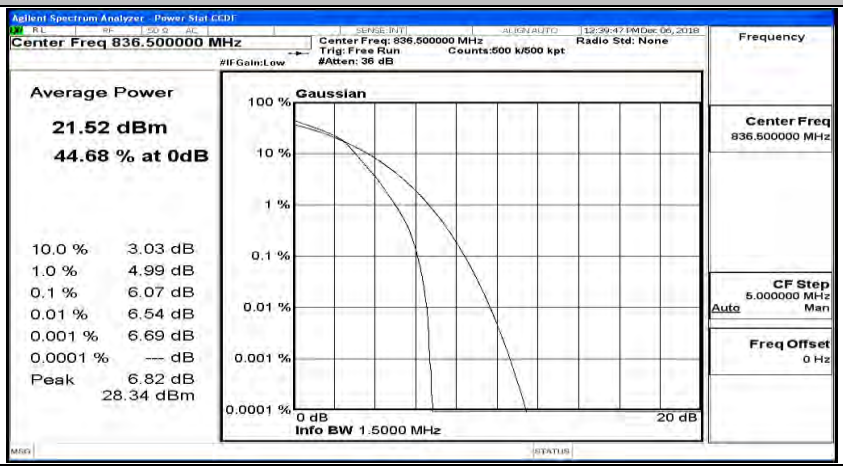
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



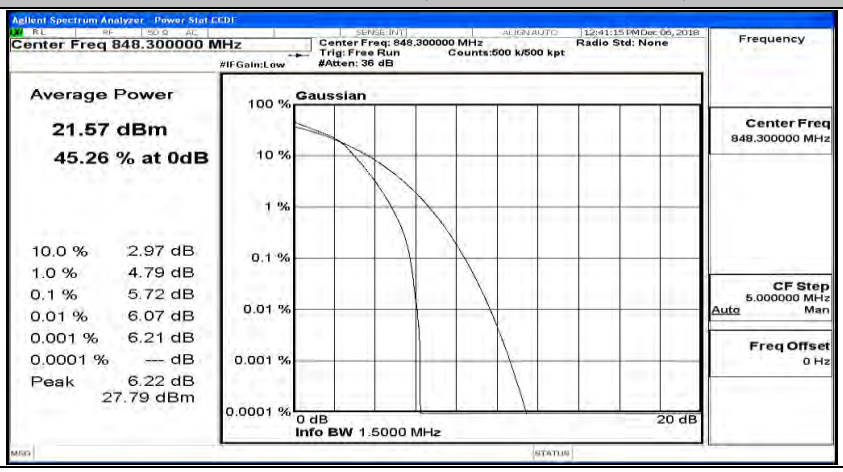
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



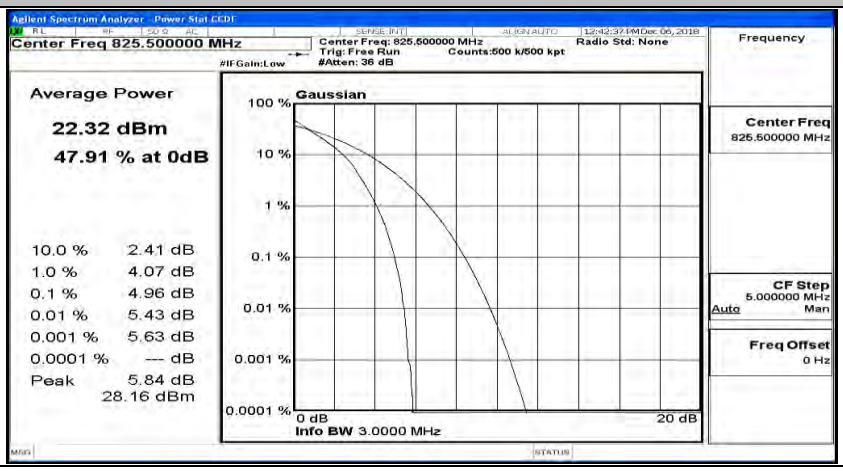
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



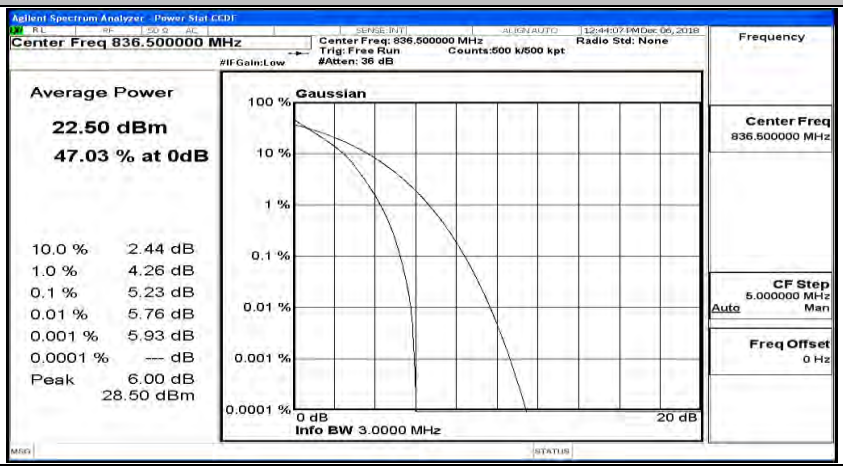
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



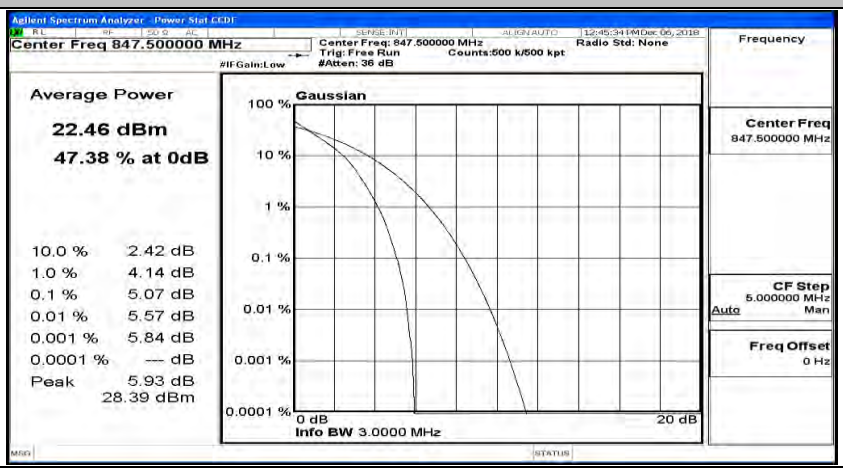
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



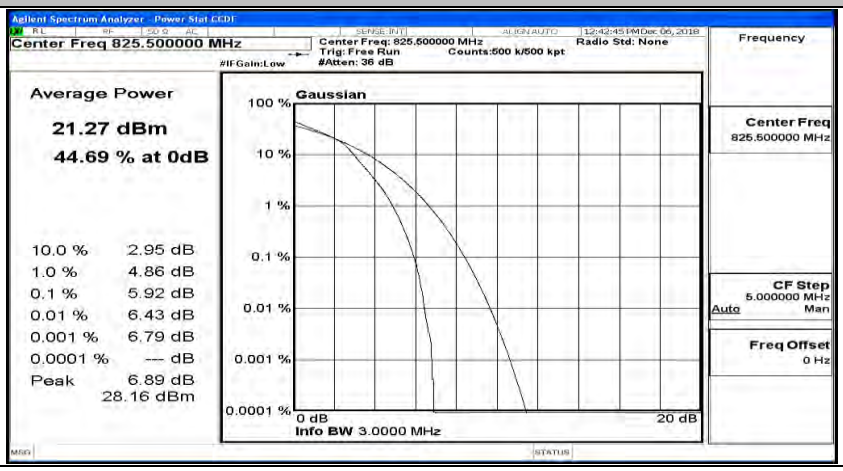
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



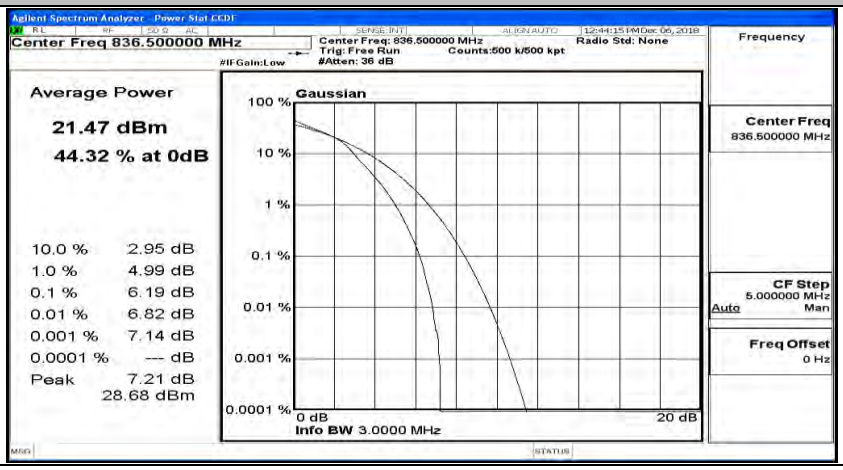
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



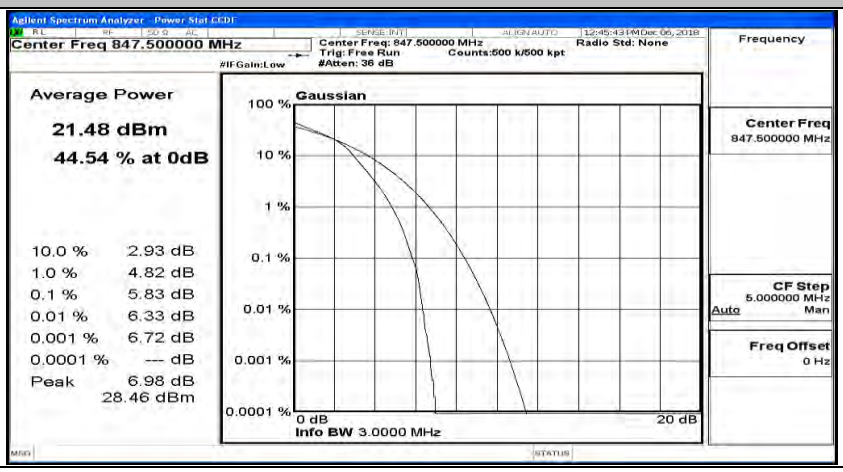
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



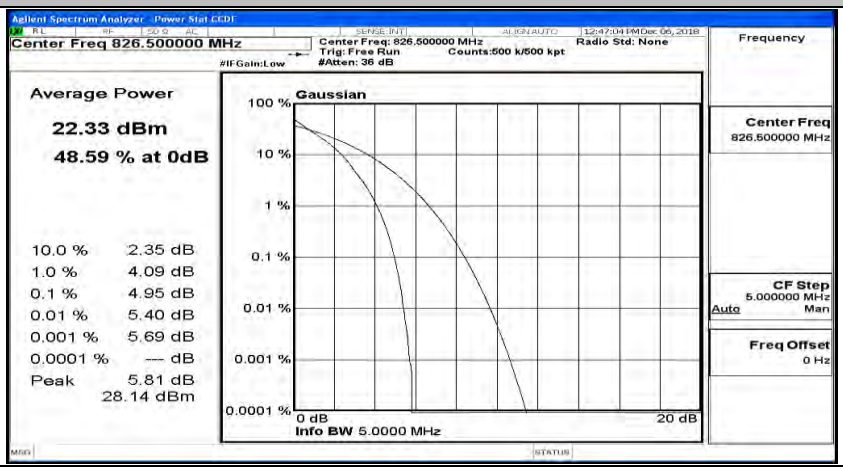
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



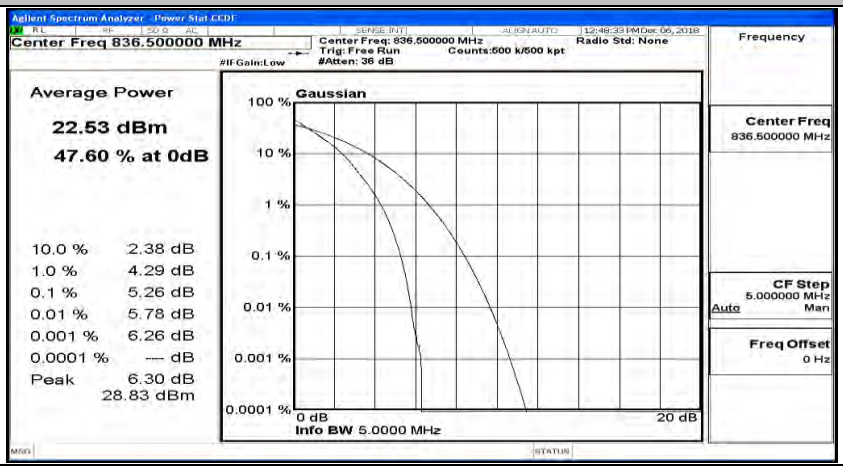
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



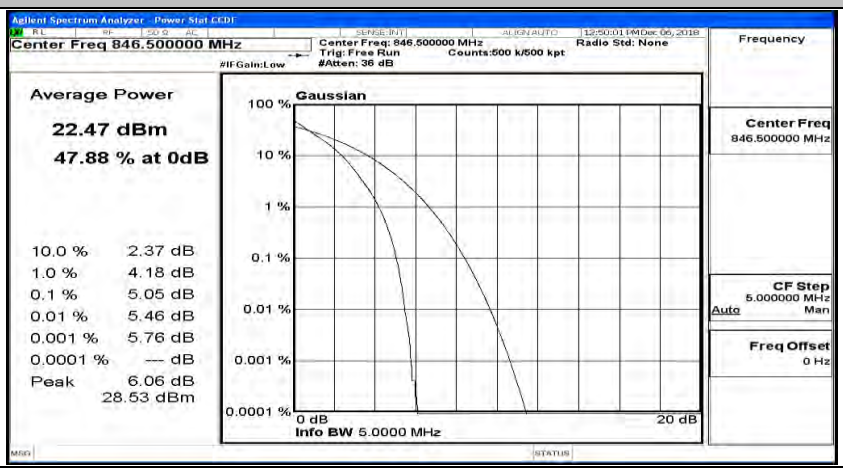
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



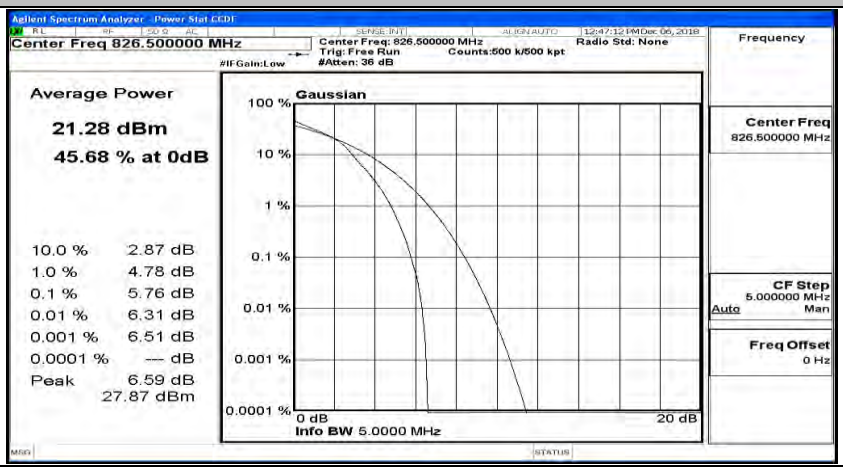
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



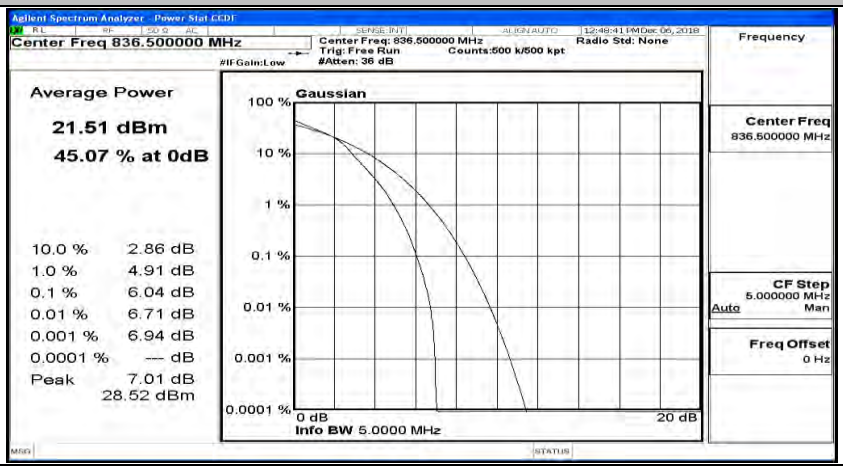
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



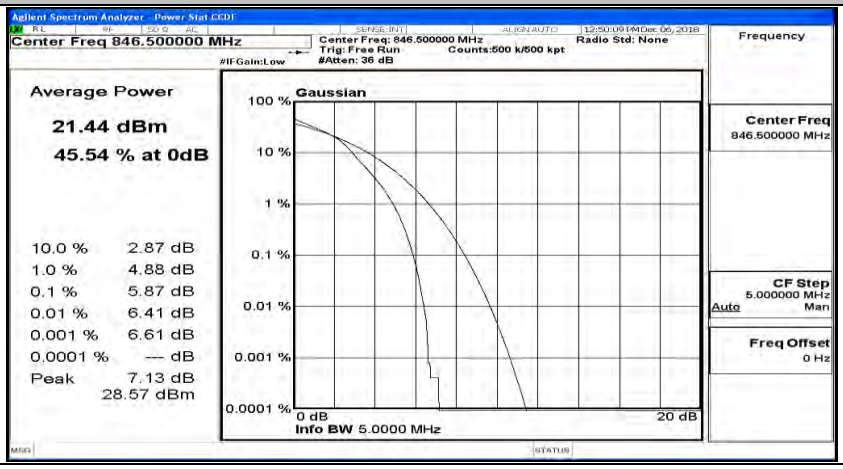
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



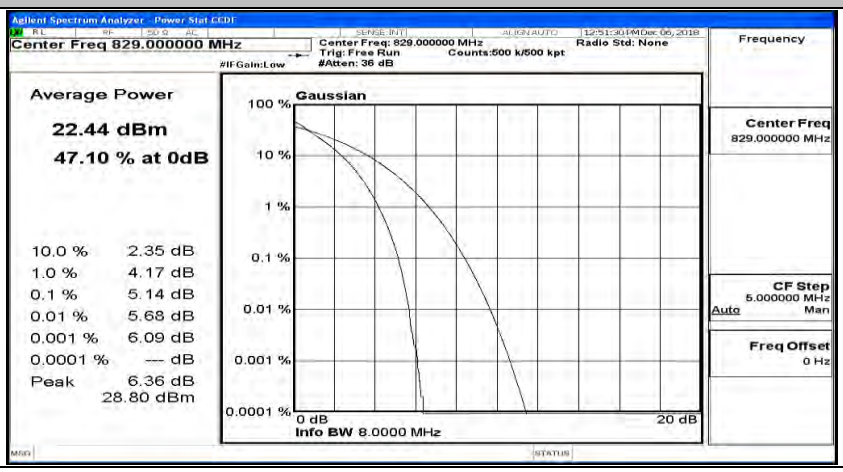
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



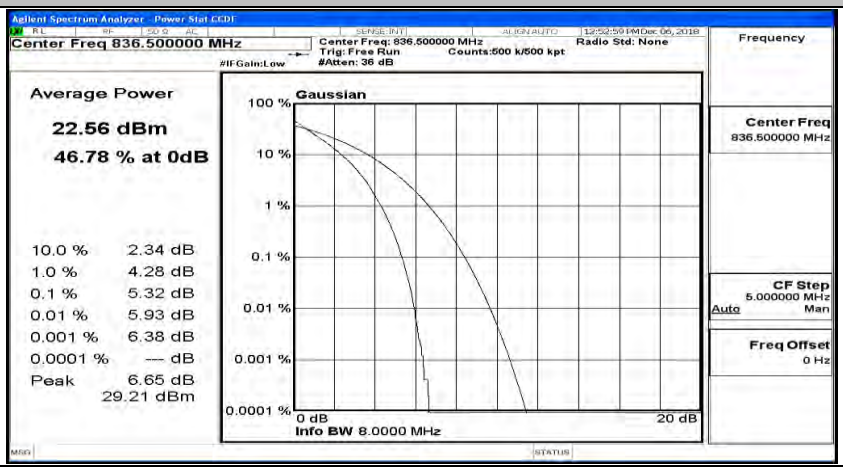
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



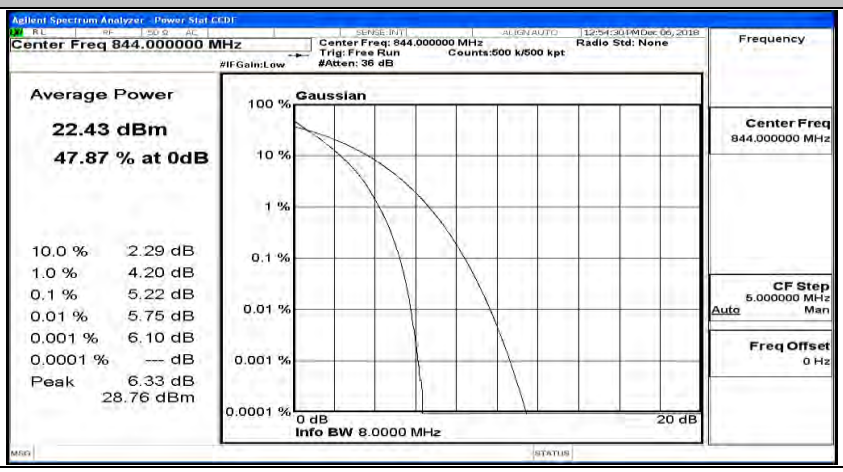
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



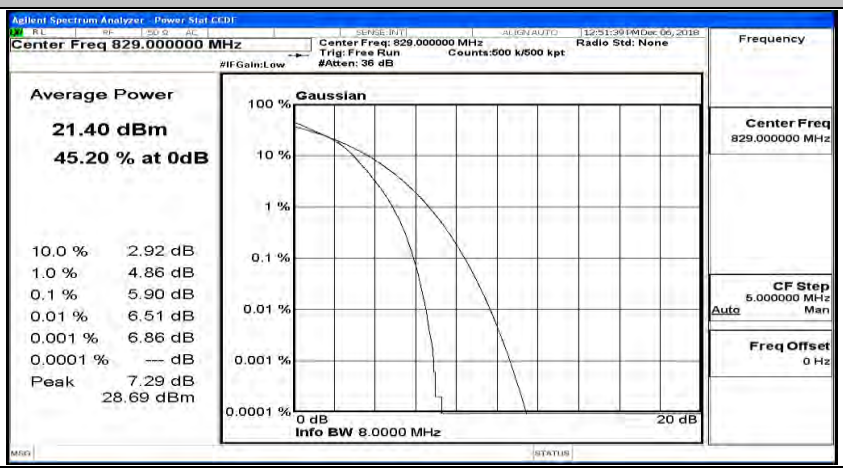
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



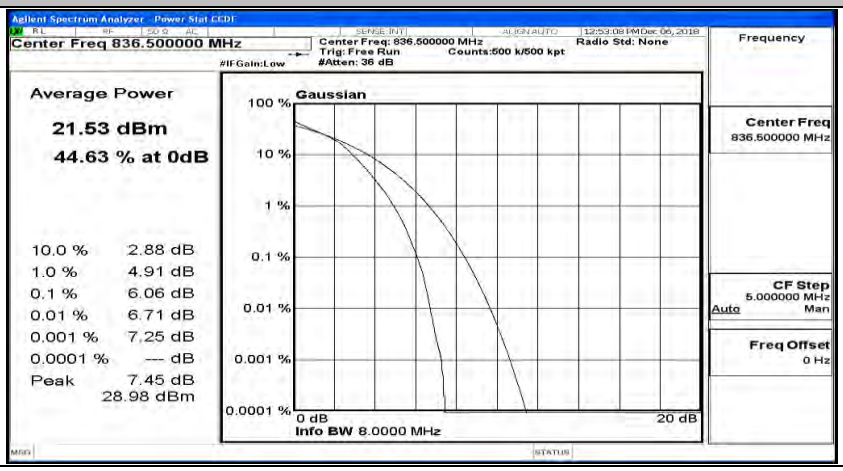
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



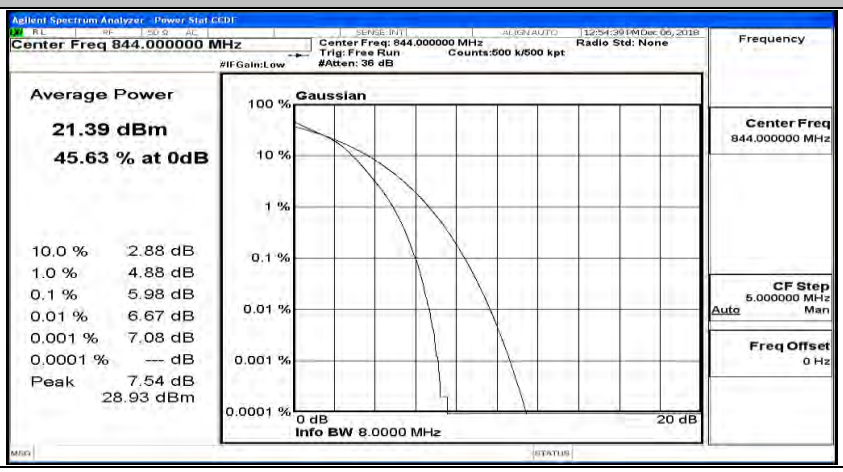
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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



C.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	1.0749	1.246	PASS
	MCH	1.0756	1.214	PASS
	HCH	1.0754	1.232	PASS
16QAM	LCH	1.0802	1.235	PASS
	MCH	1.0767	1.224	PASS
	HCH	1.0769	1.231	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6782	2.832	PASS
	MCH	2.6826	2.843	PASS
	HCH	2.6799	2.822	PASS
16QAM	LCH	2.6755	2.828	PASS
	MCH	2.6797	2.841	PASS
	HCH	2.6814	2.843	PASS

EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4704	4.850	PASS
	MCH	4.4754	4.778	PASS
	HCH	4.4735	4.874	PASS
16QAM	LCH	4.4630	4.873	PASS
	MCH	4.4781	4.859	PASS
	HCH	4.4781	4.866	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9357	9.422	PASS
	MCH	8.9482	9.612	PASS
	HCH	8.9197	9.553	PASS
16QAM	LCH	8.9305	9.547	PASS
	MCH	8.9400	9.433	PASS
	HCH	8.9362	9.390	PASS

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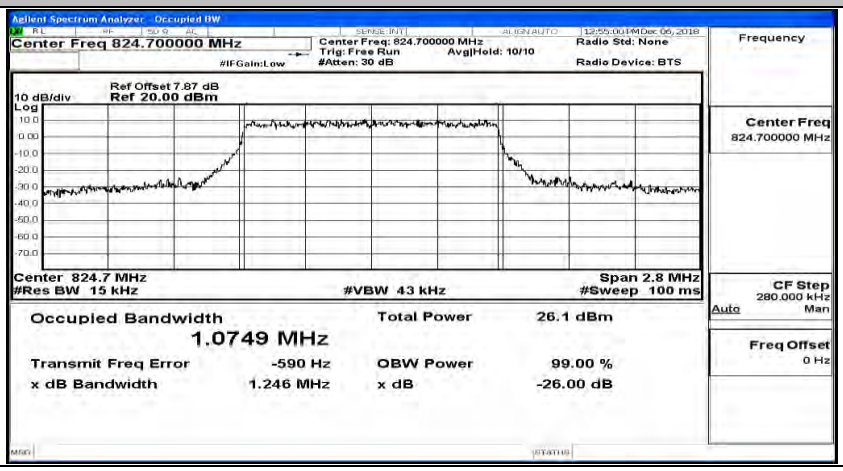
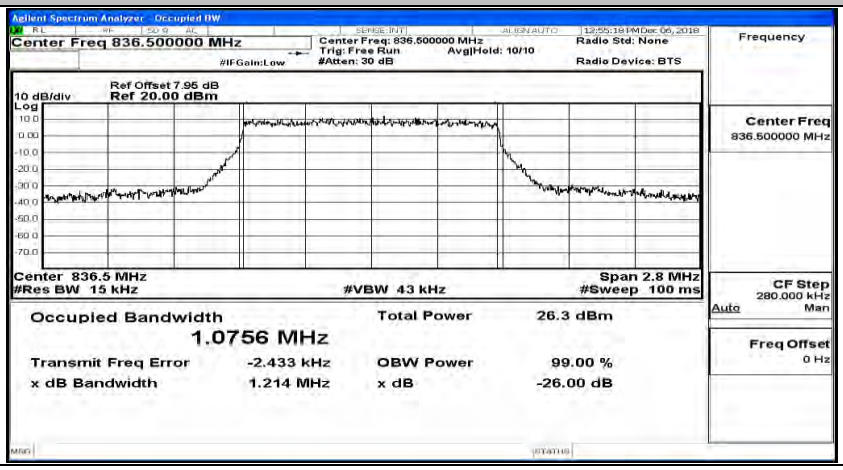
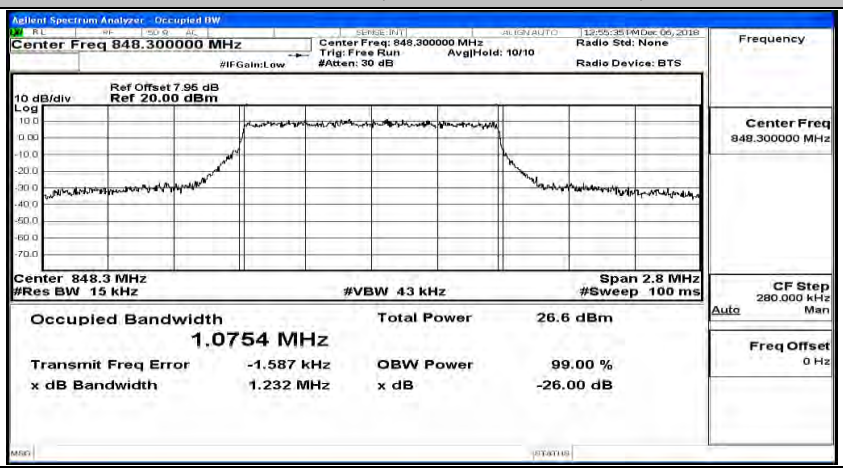
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



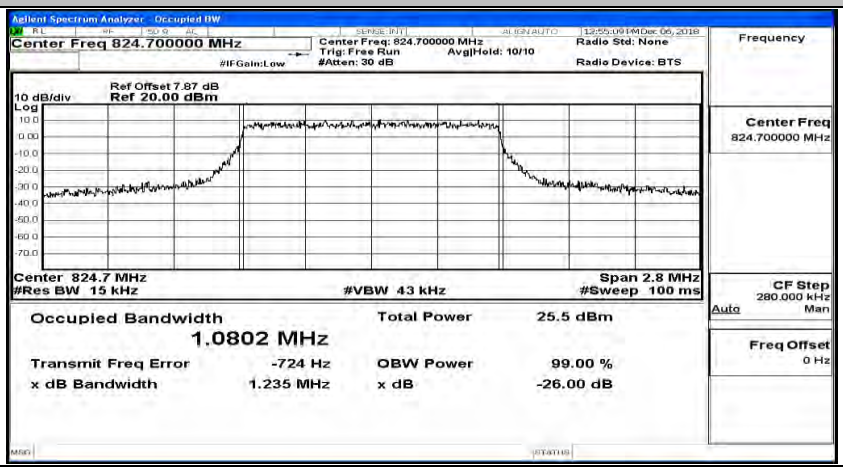
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



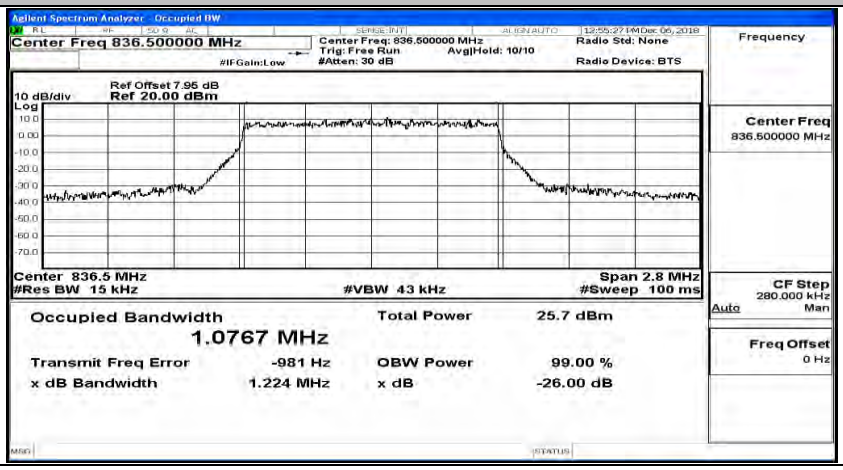
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



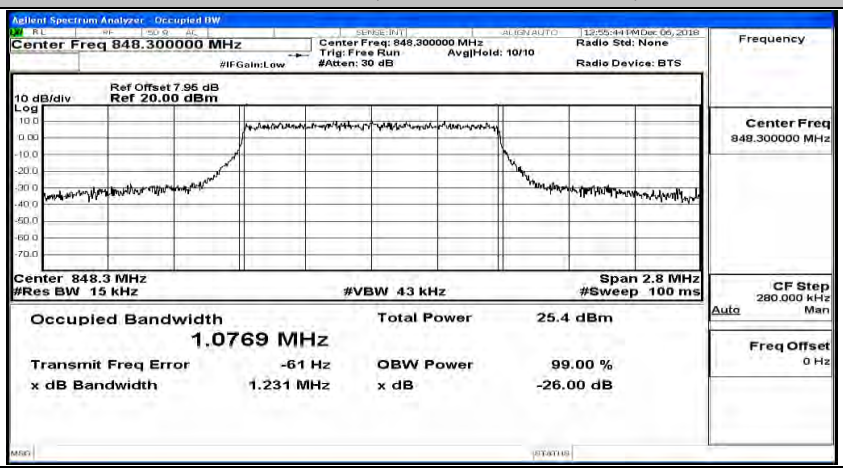
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



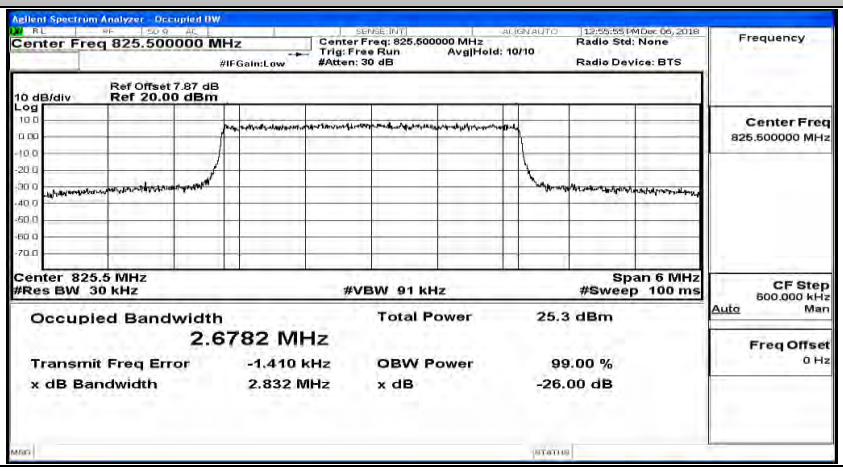
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



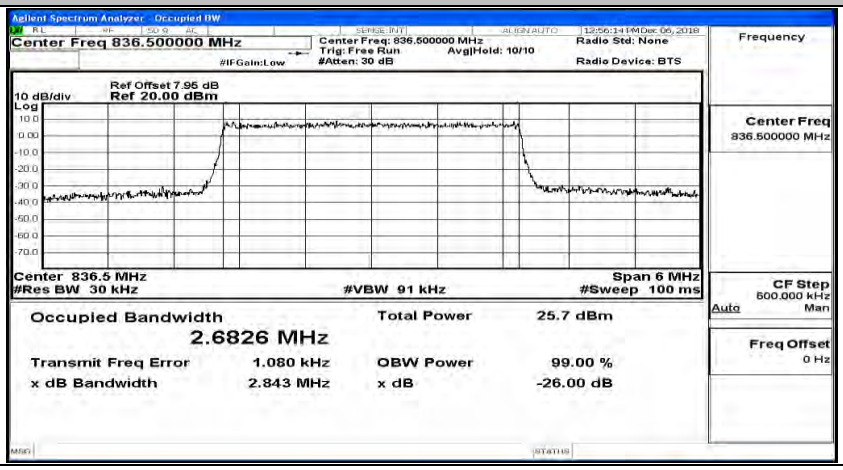
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



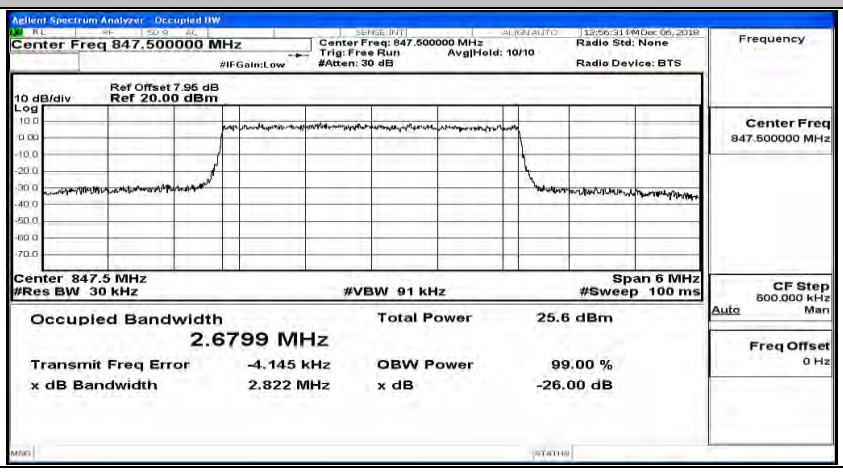
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



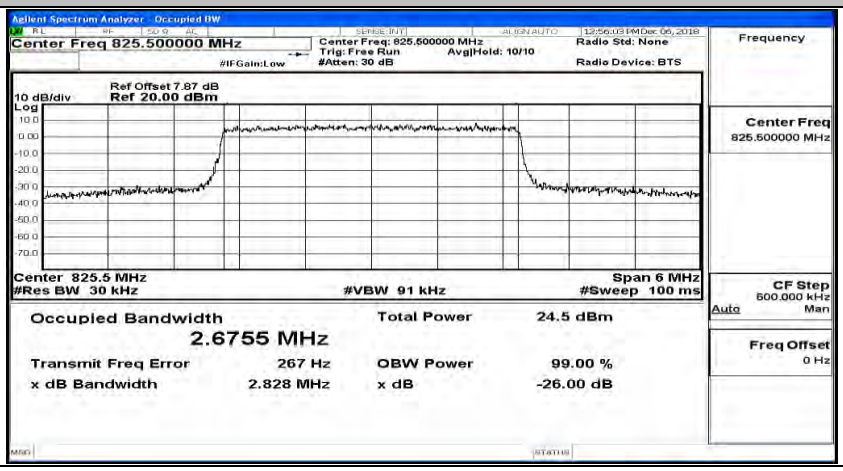
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



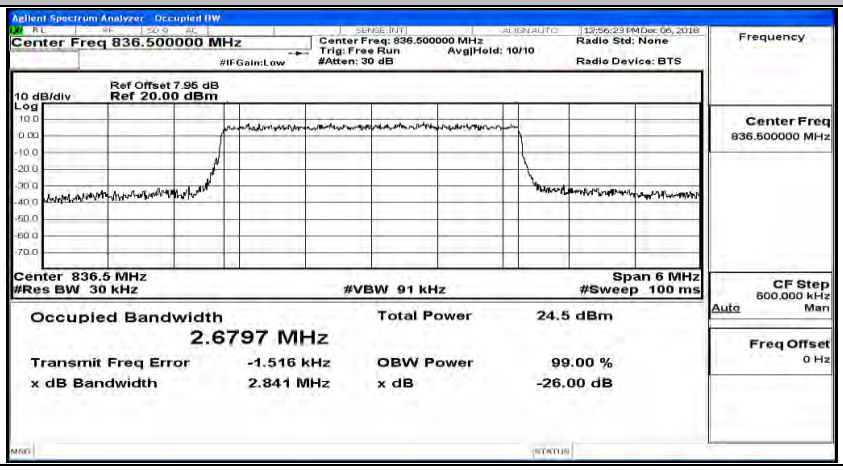
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



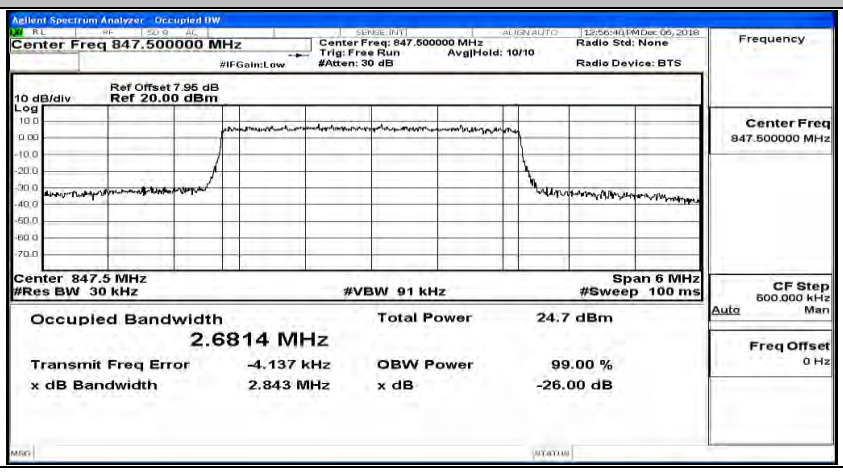
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



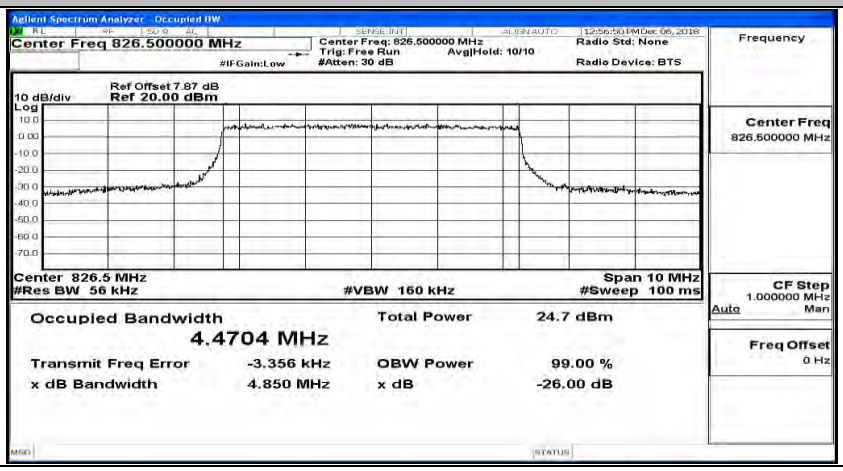
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



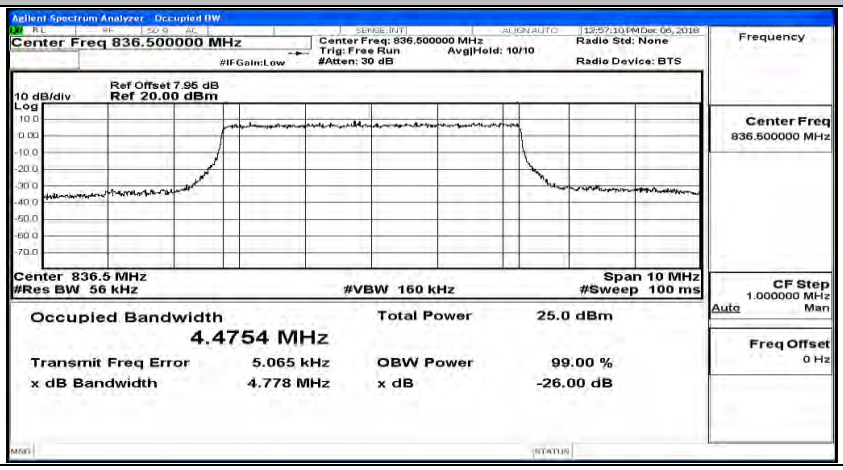
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



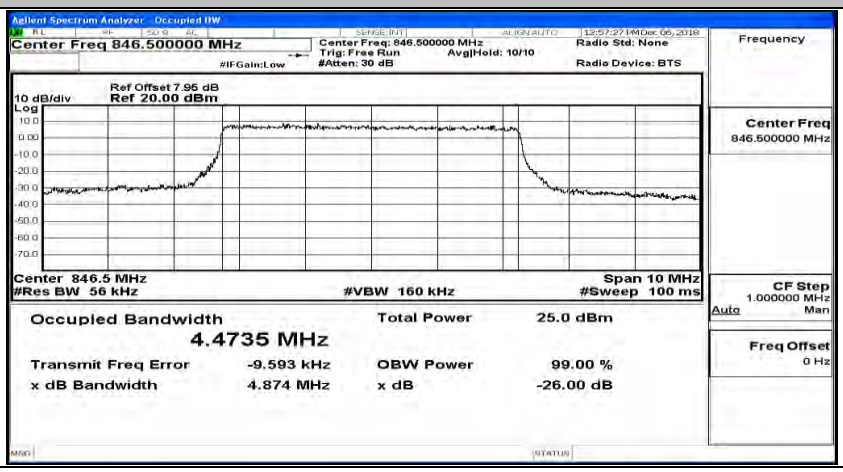
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



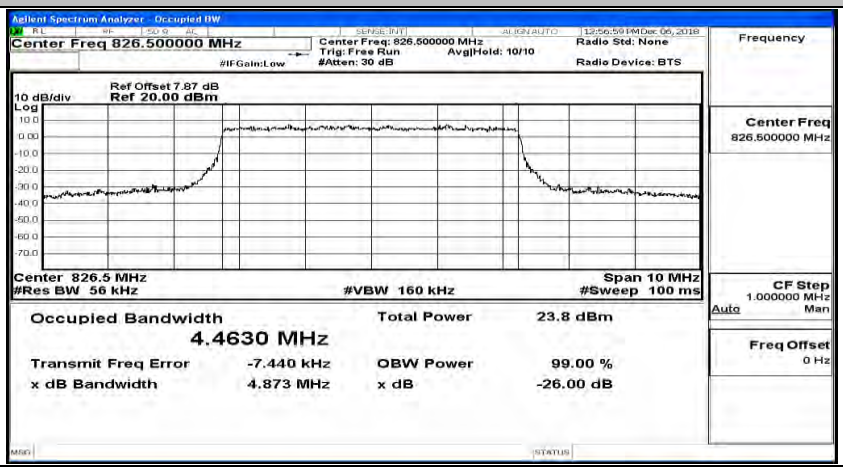
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



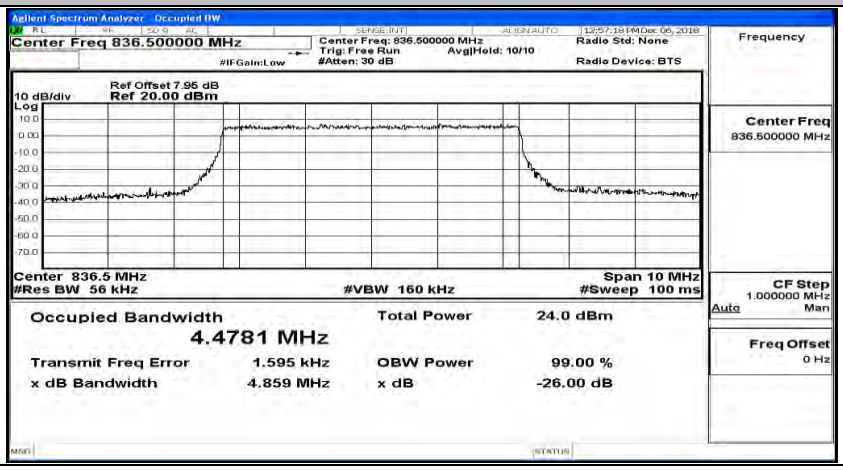
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



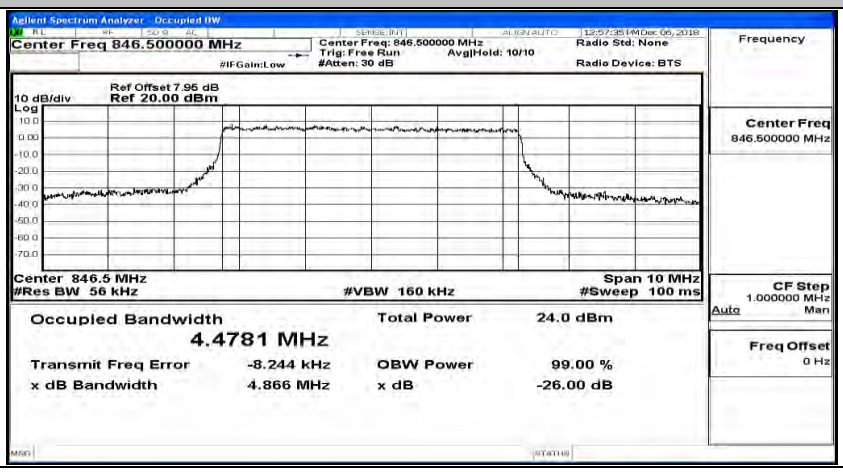
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



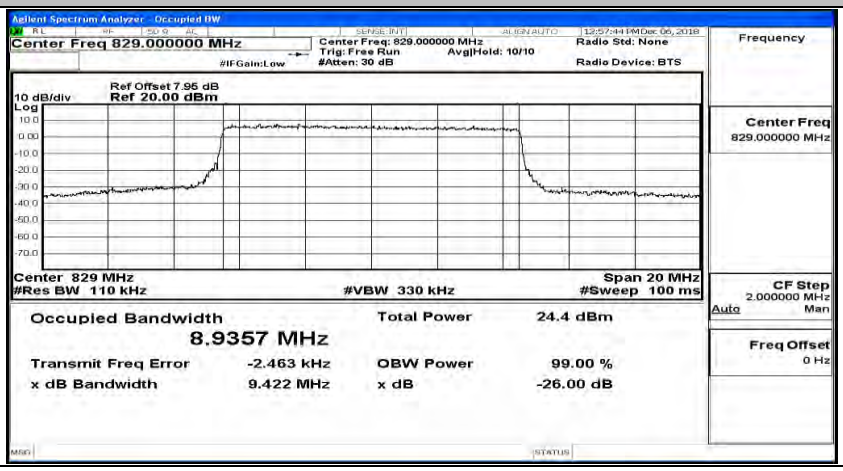
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



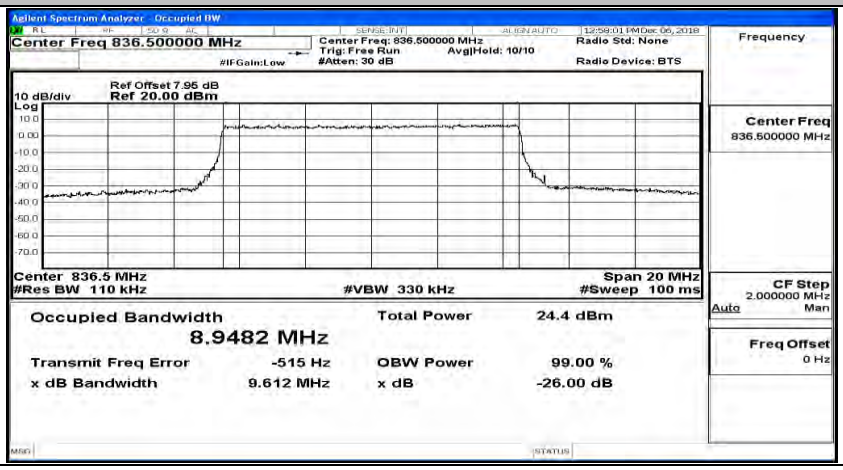
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



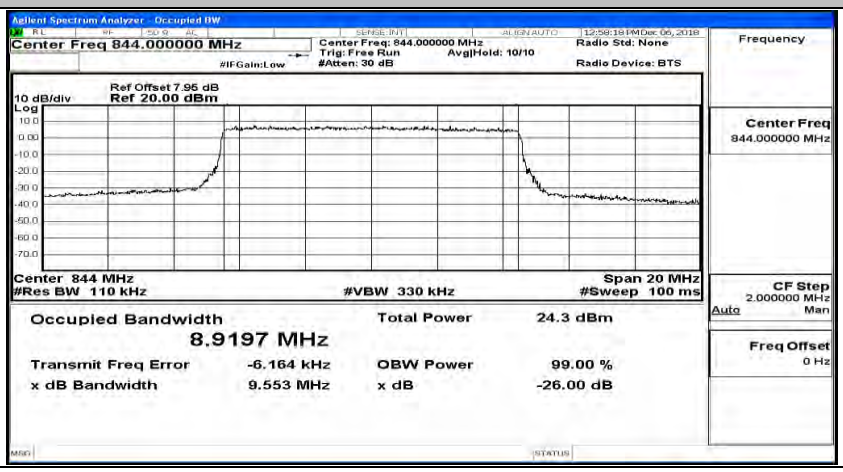
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



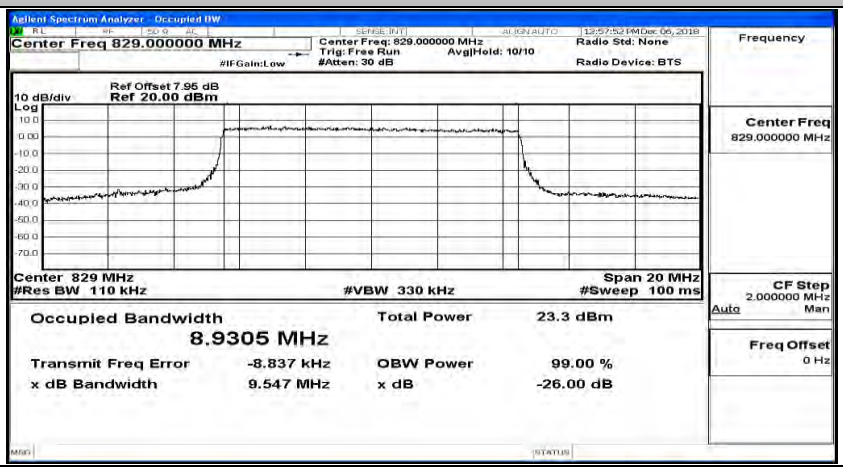
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



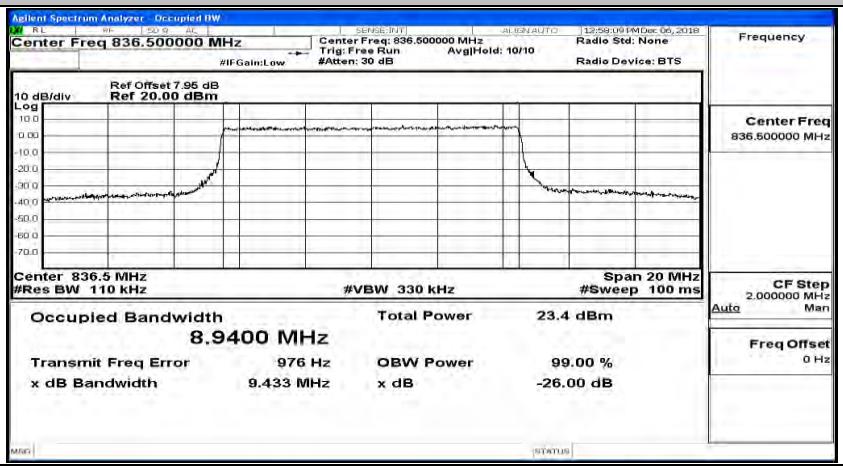
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



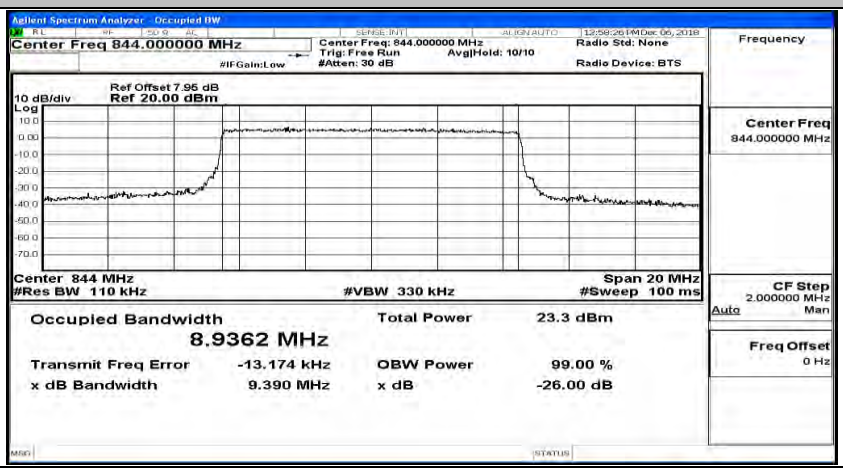
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

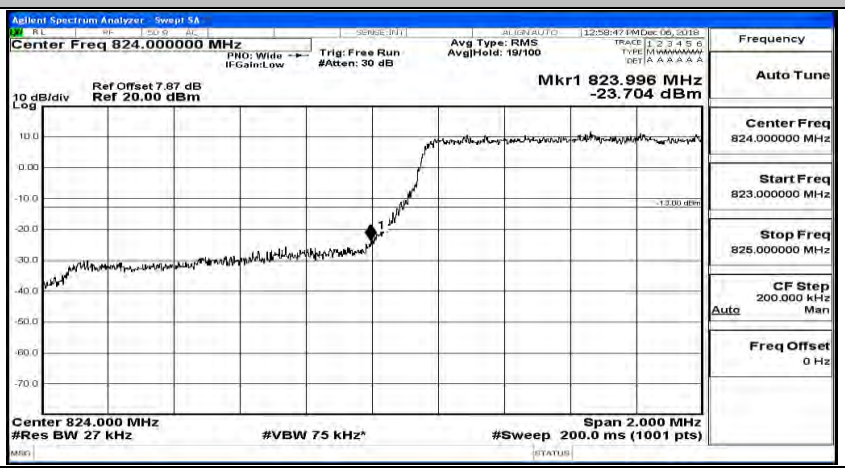


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

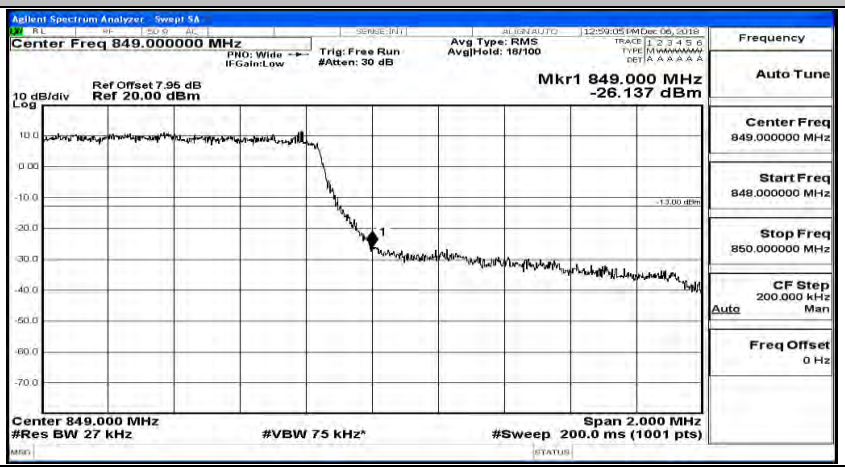


C.4 Band Edge

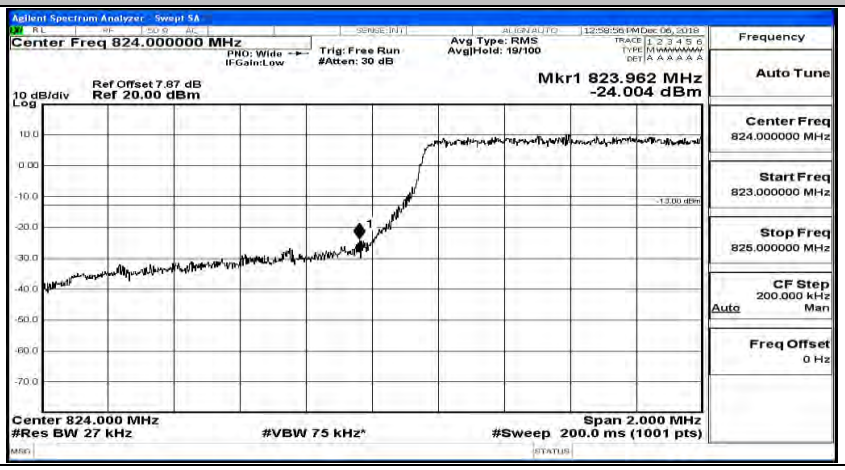
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



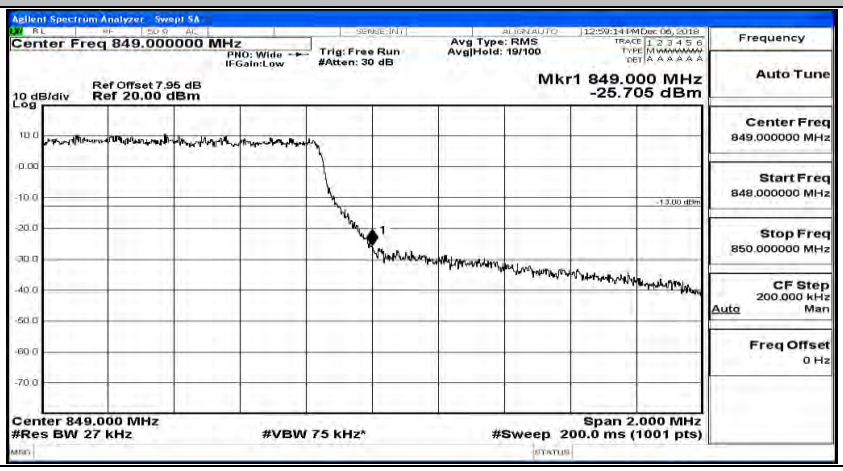
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



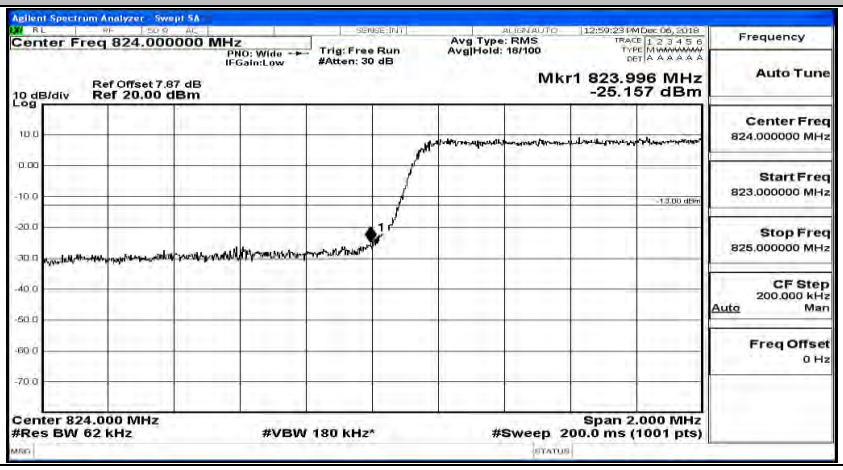
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



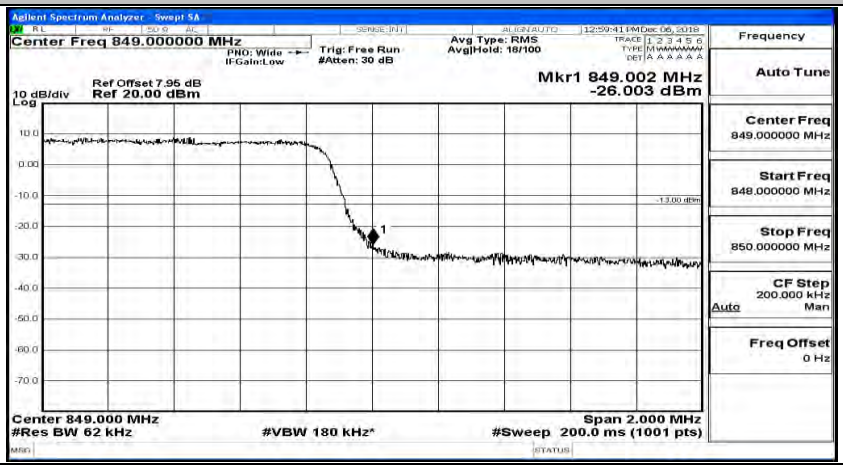
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



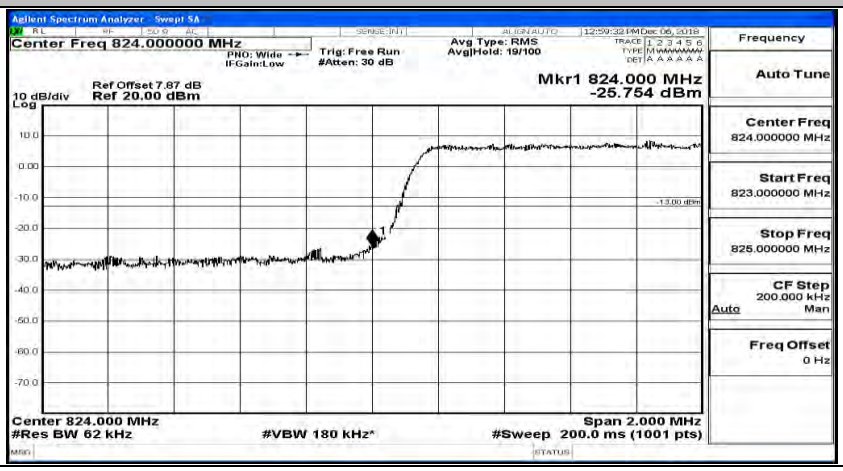
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



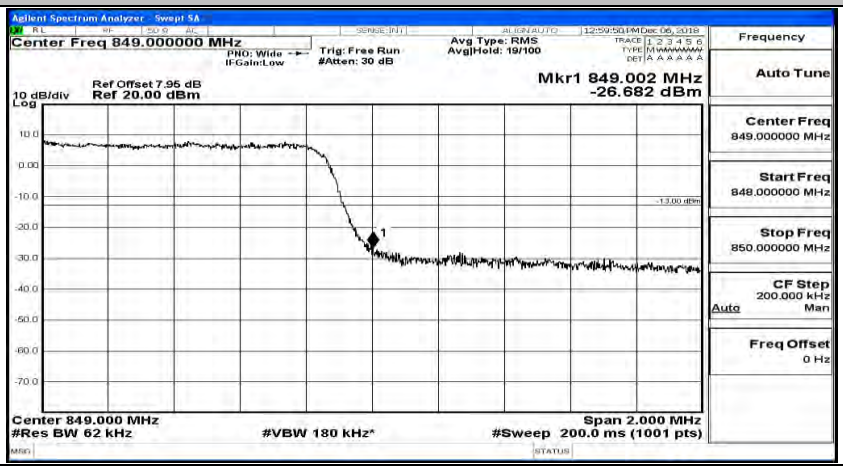
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



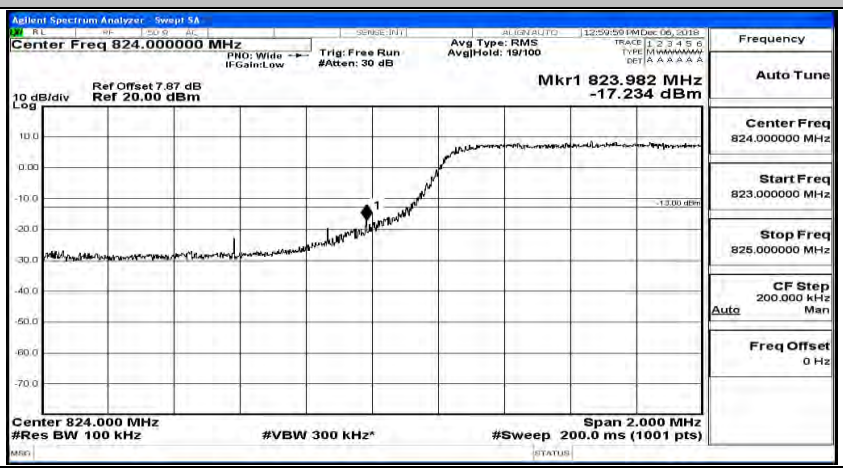
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



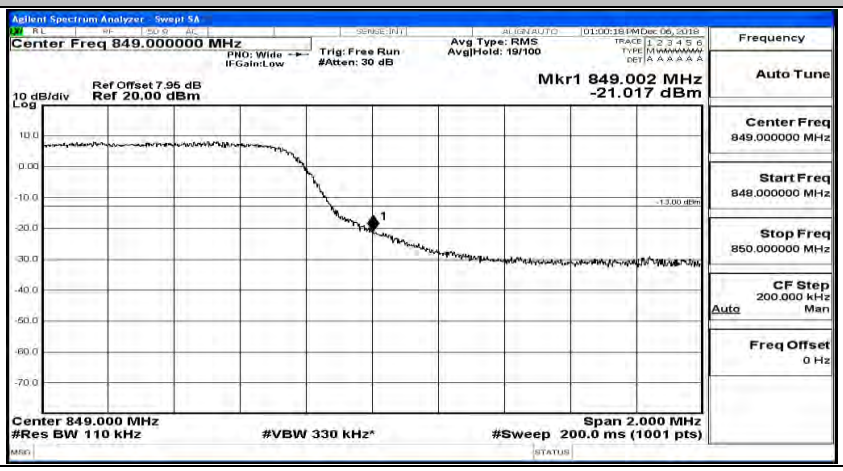
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



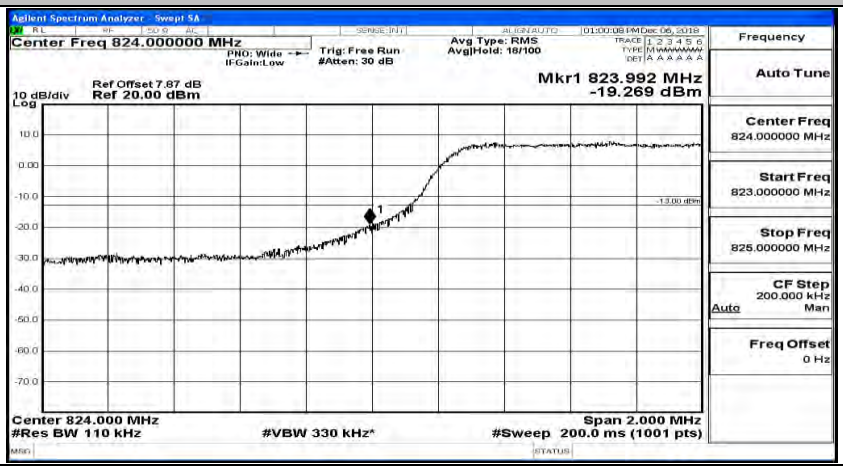
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



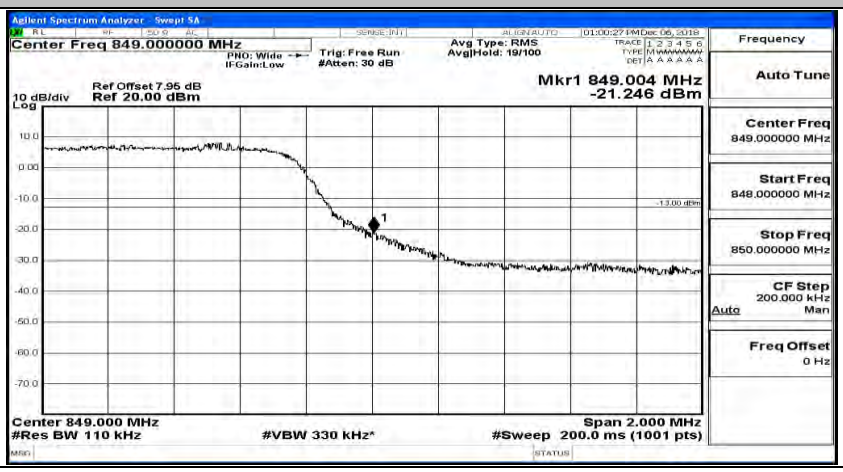
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



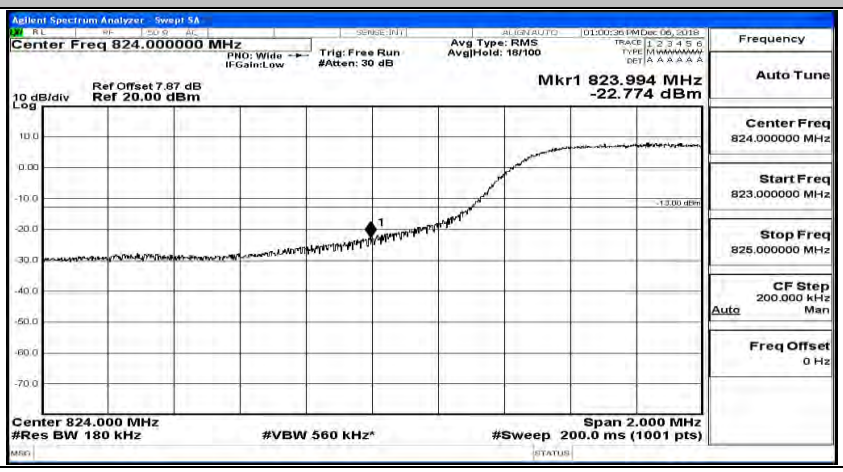
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



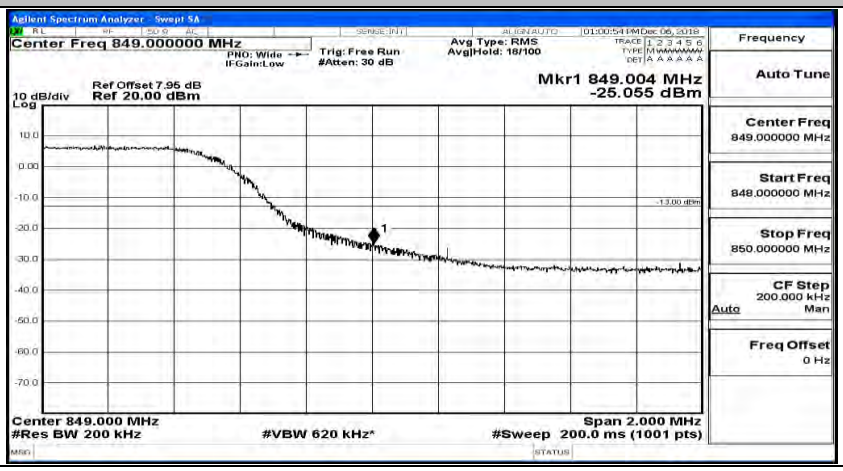
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



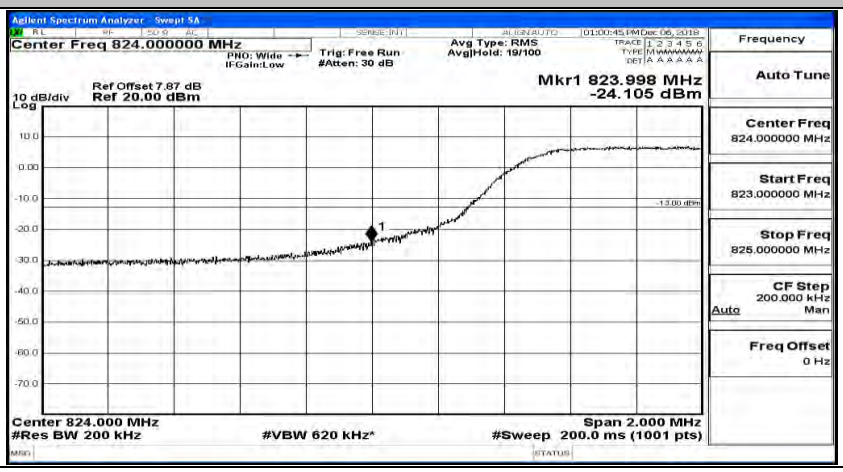
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



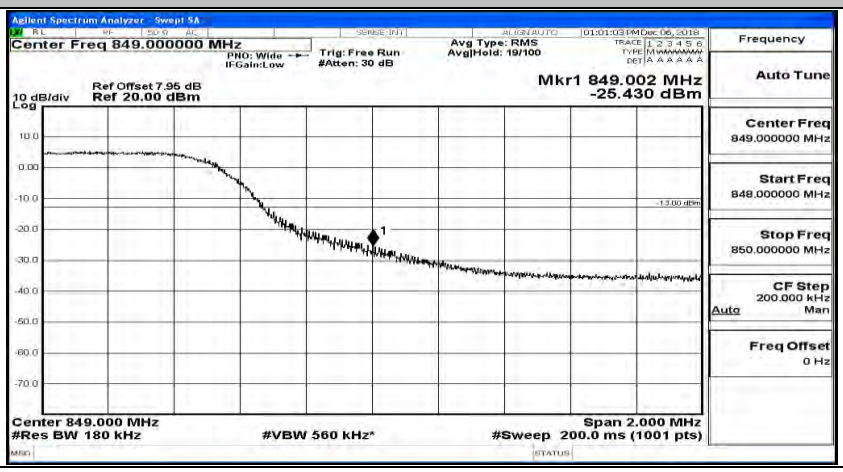
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



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

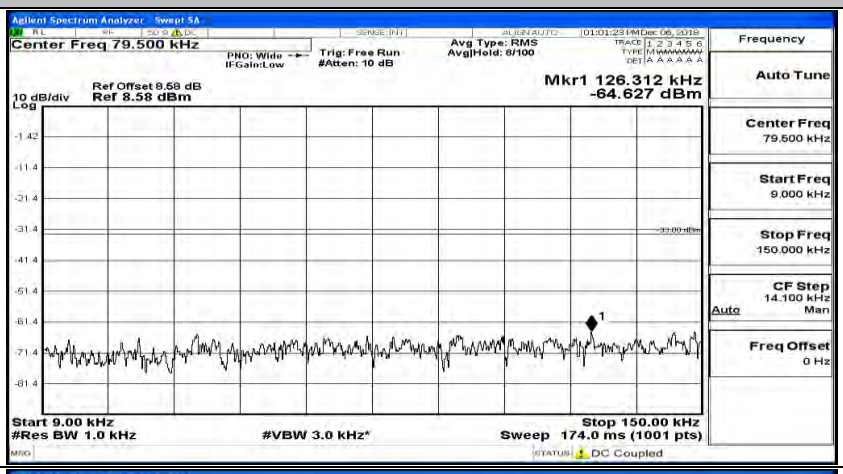


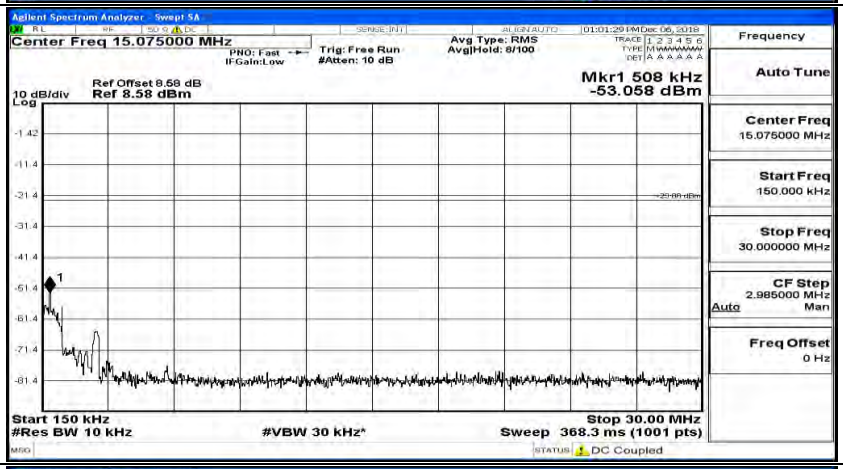
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

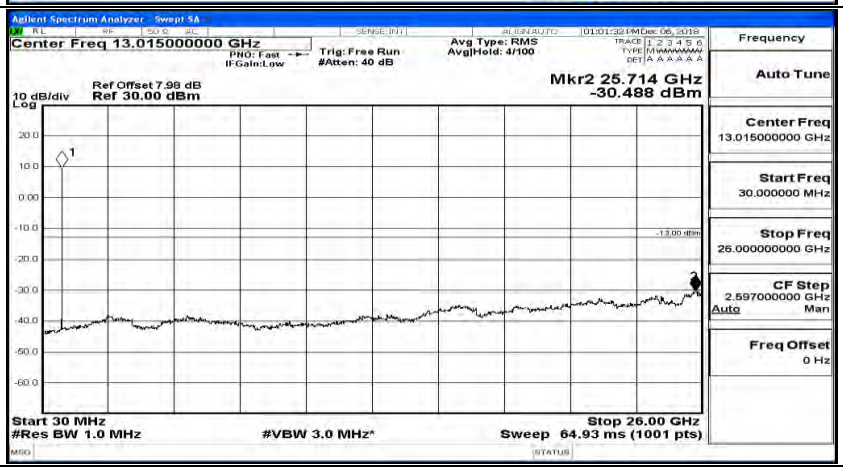


C.5 Conducted Spurious Emission

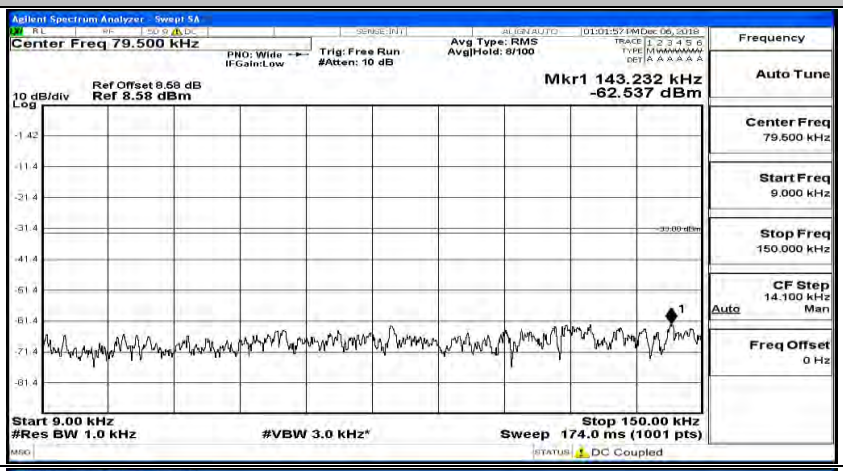
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK

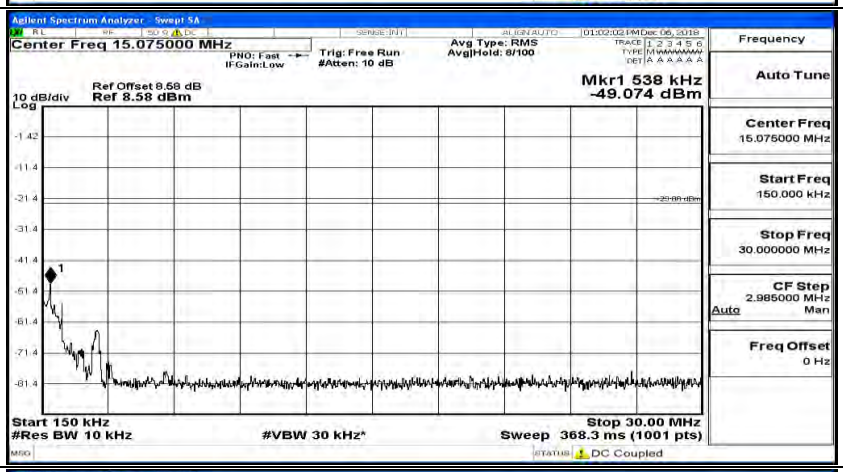


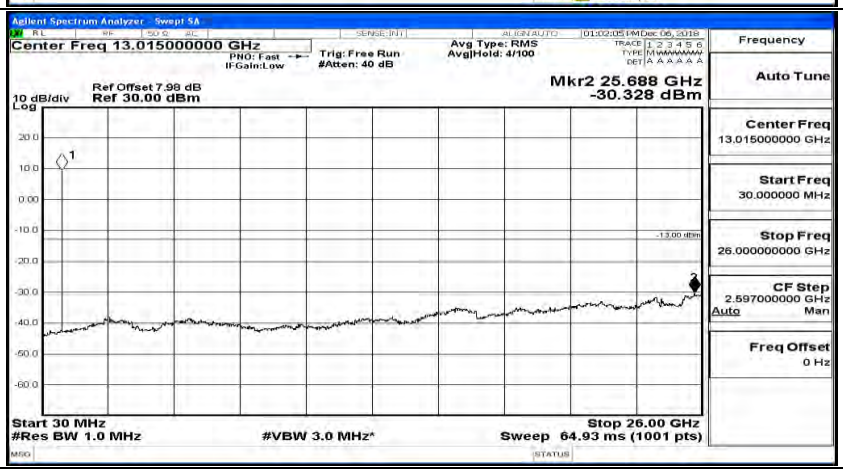




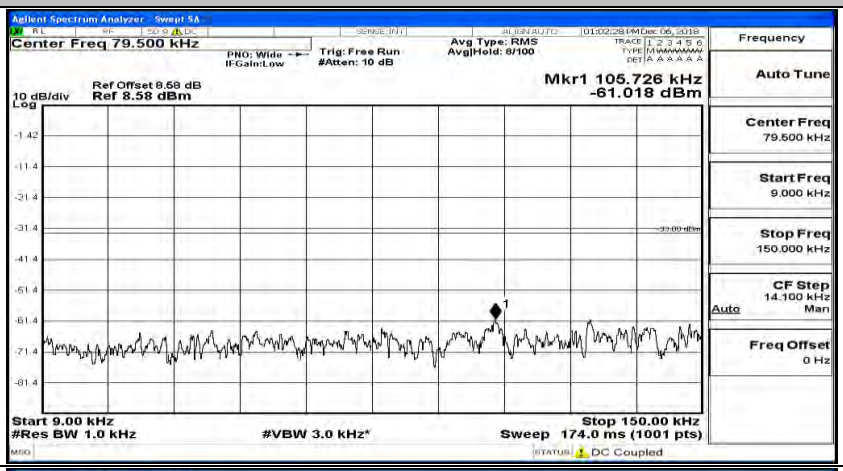
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK

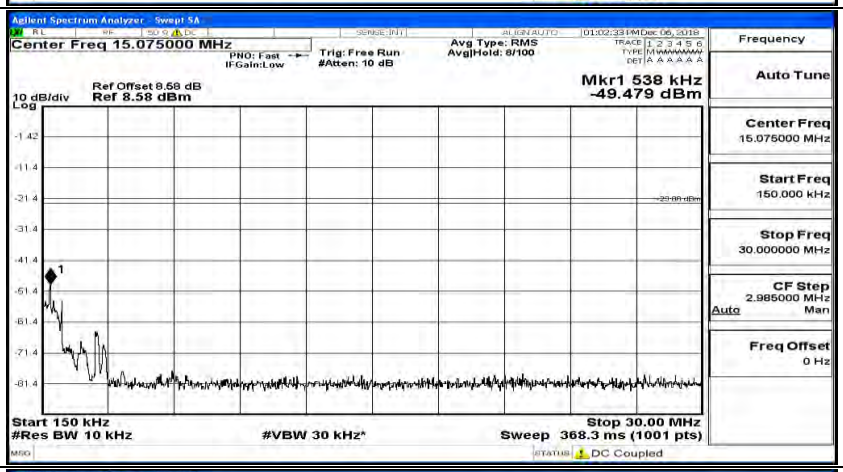


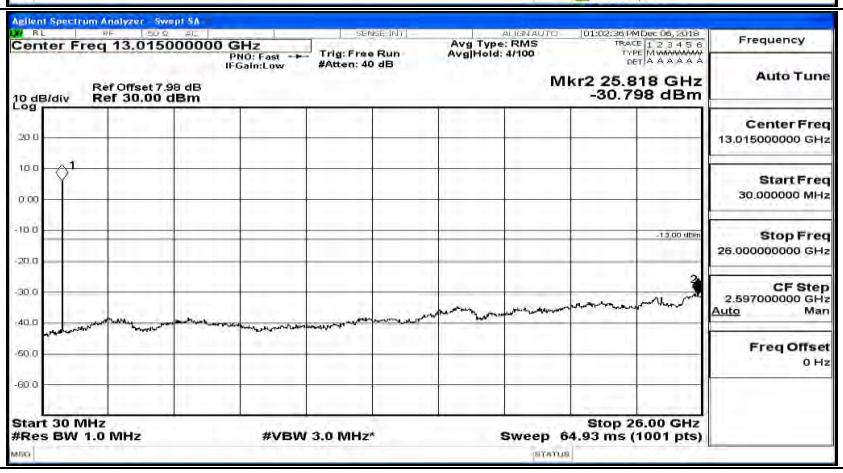




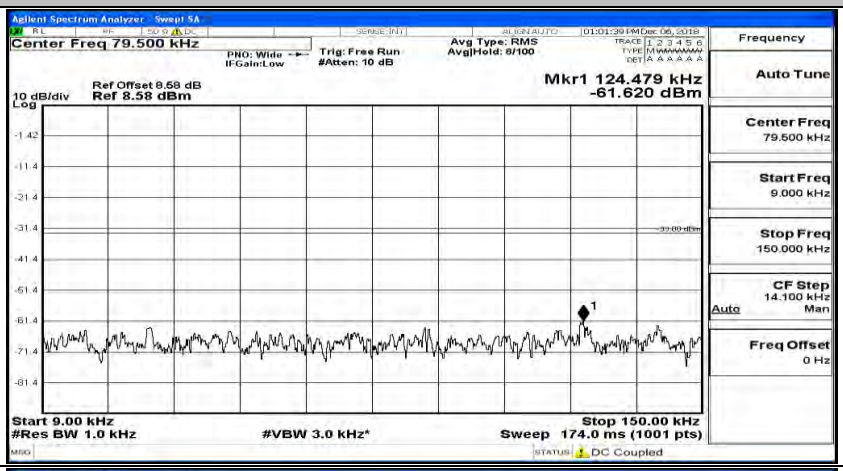
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK

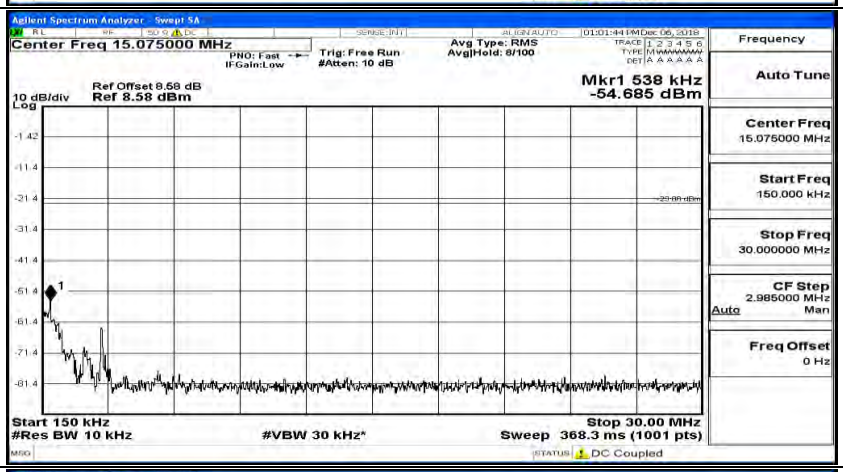


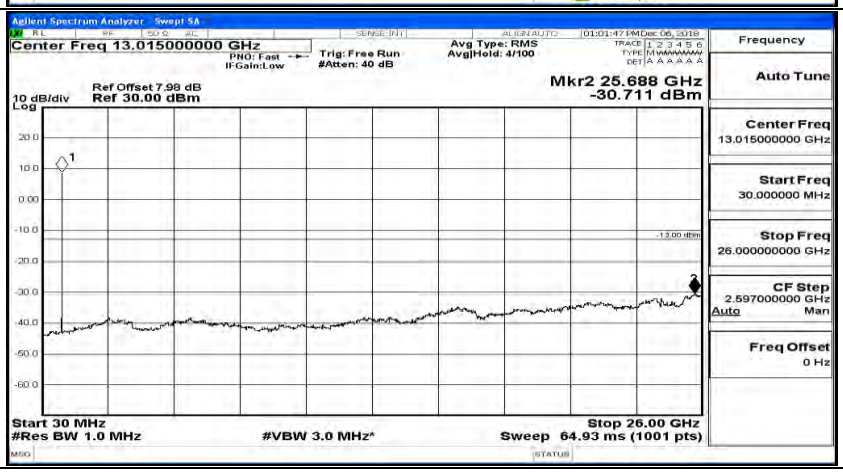




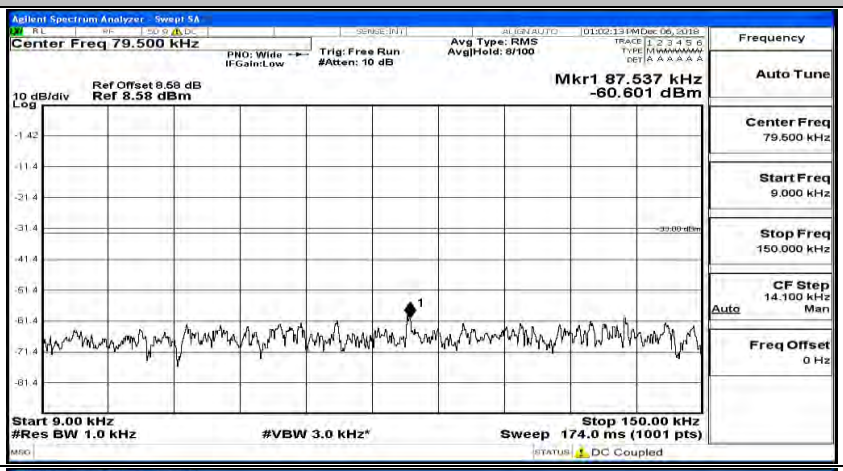
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM

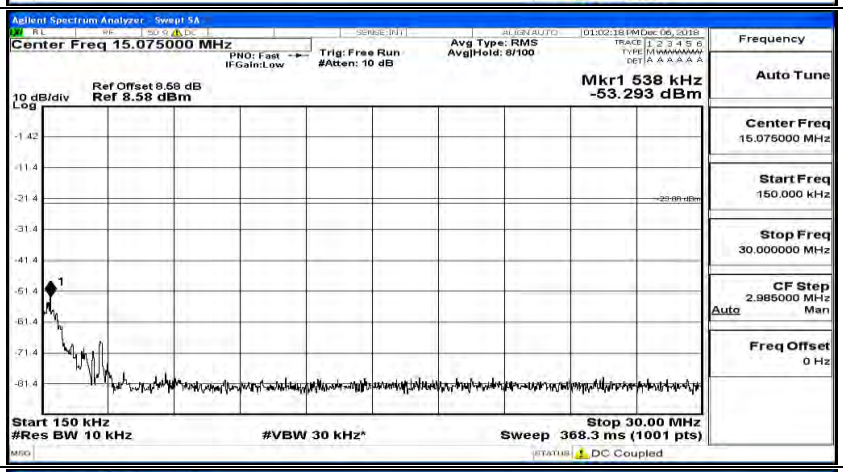


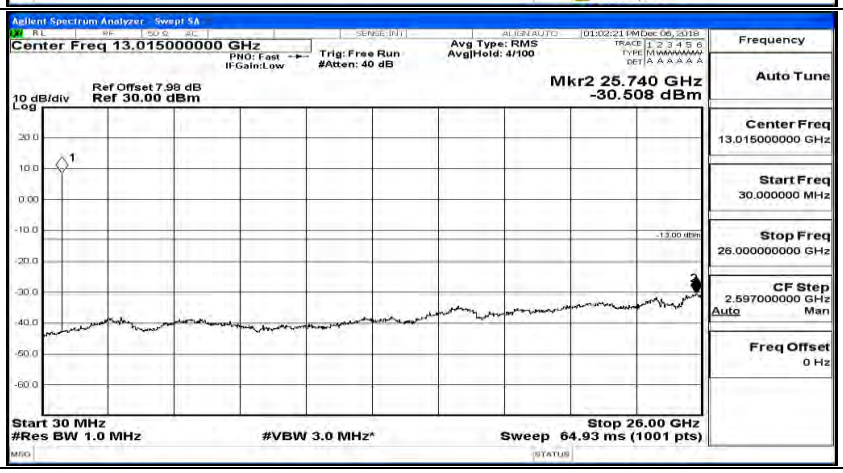




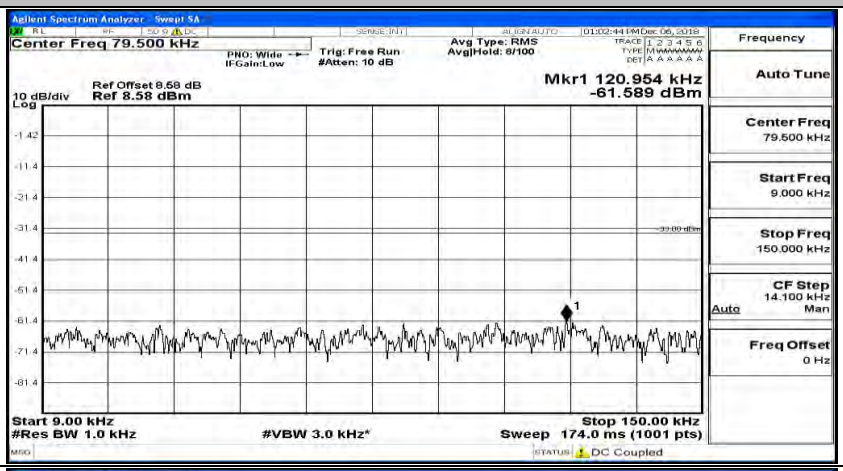
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM

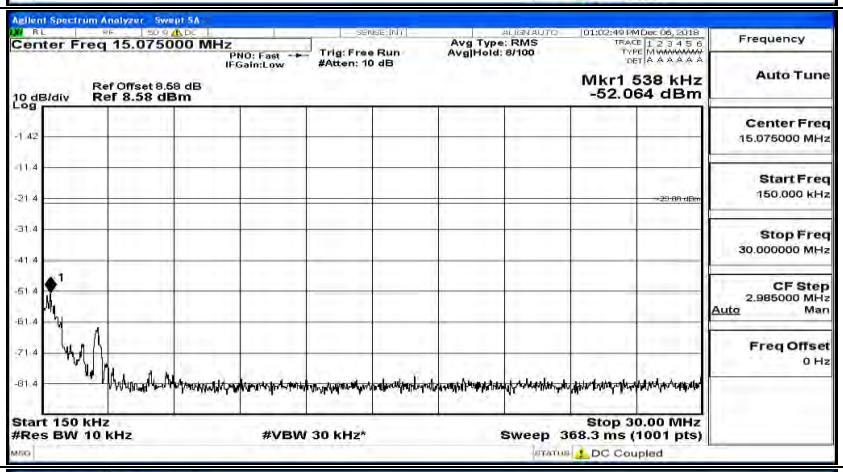


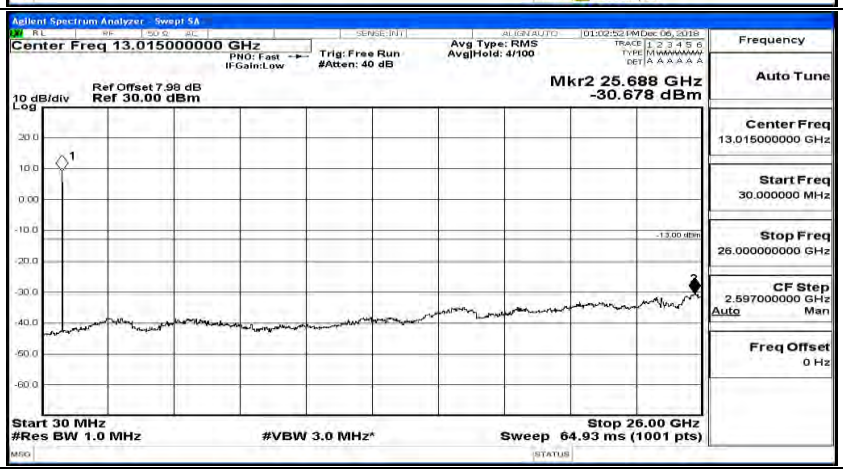




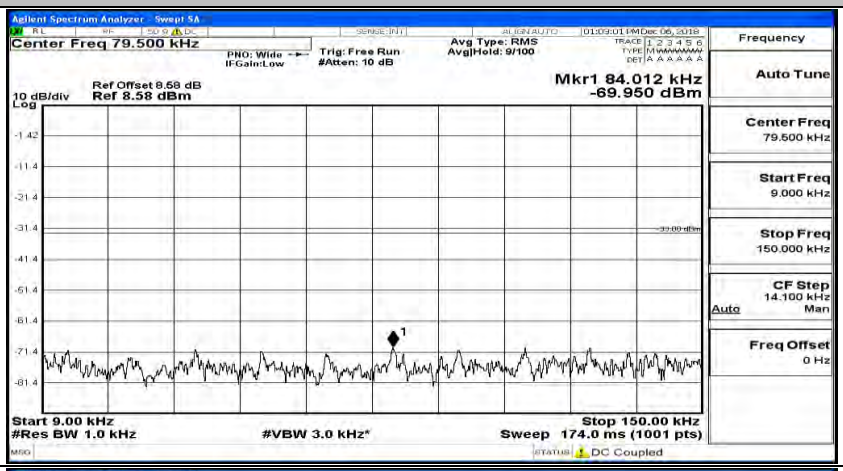
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM

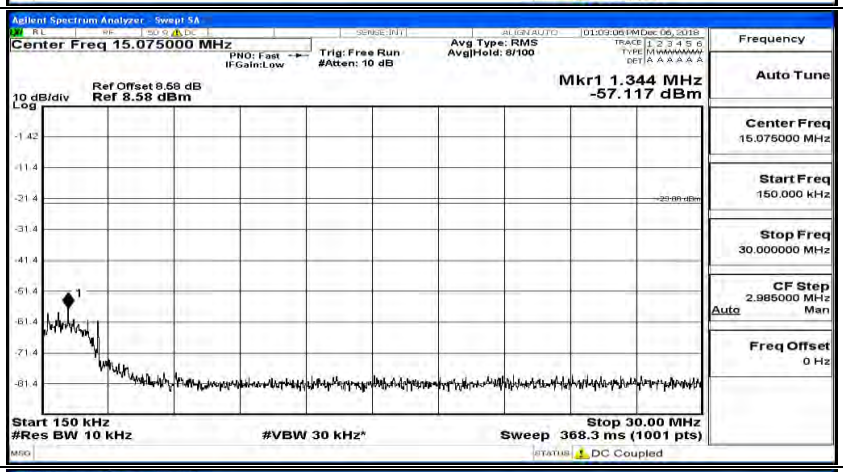


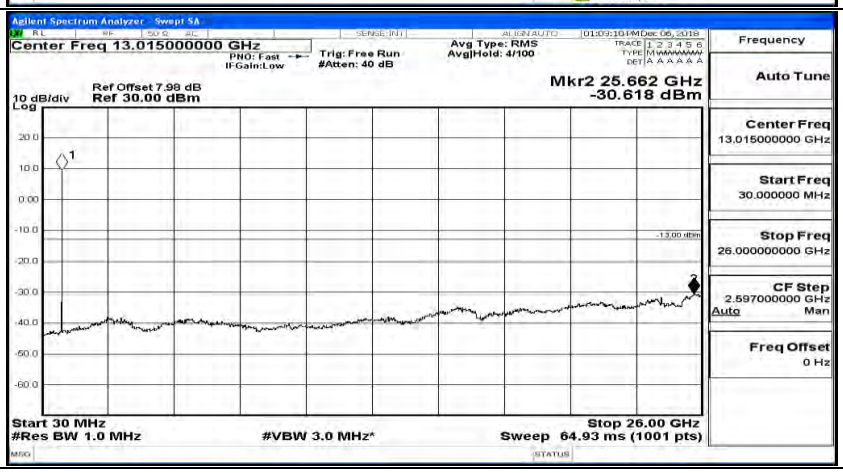




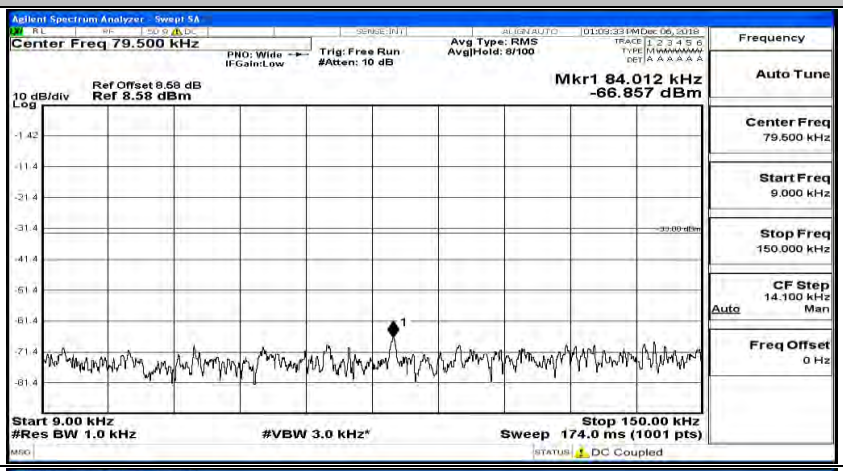
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK

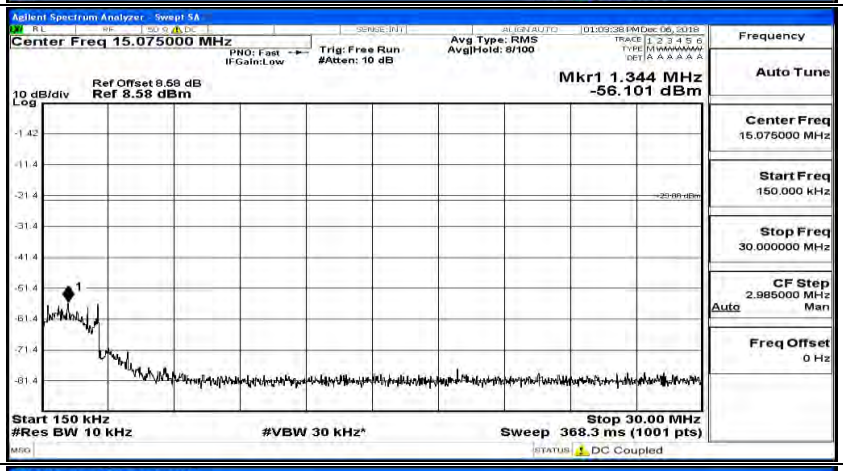




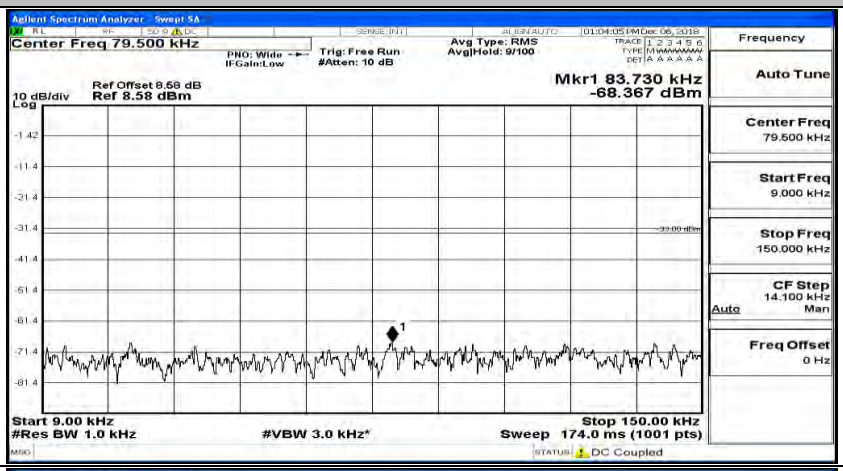


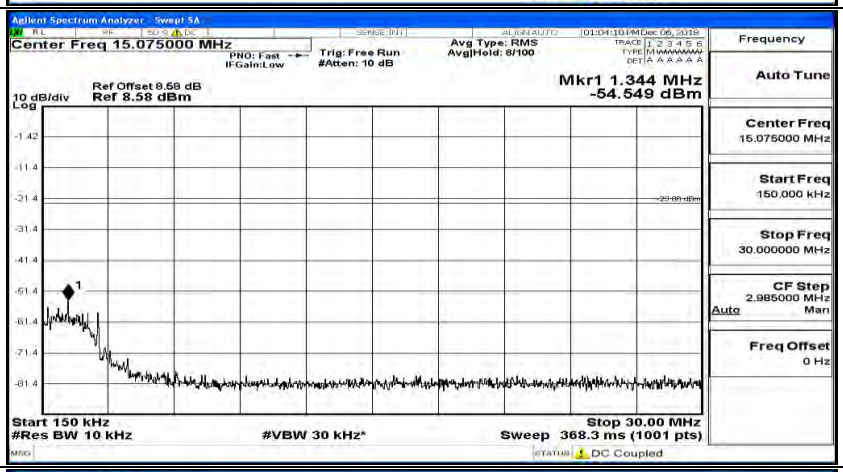
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK

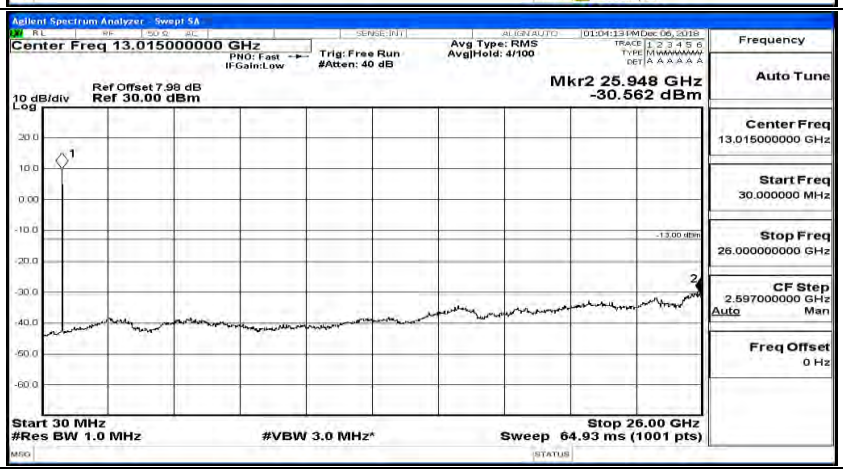


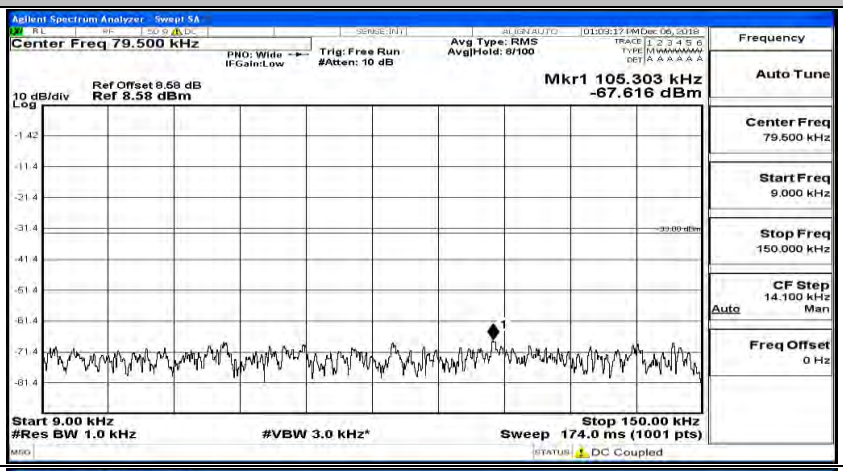
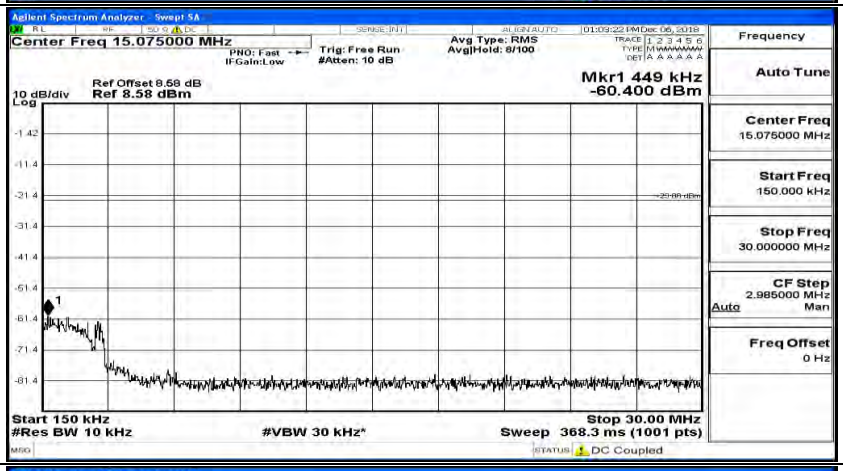


CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK

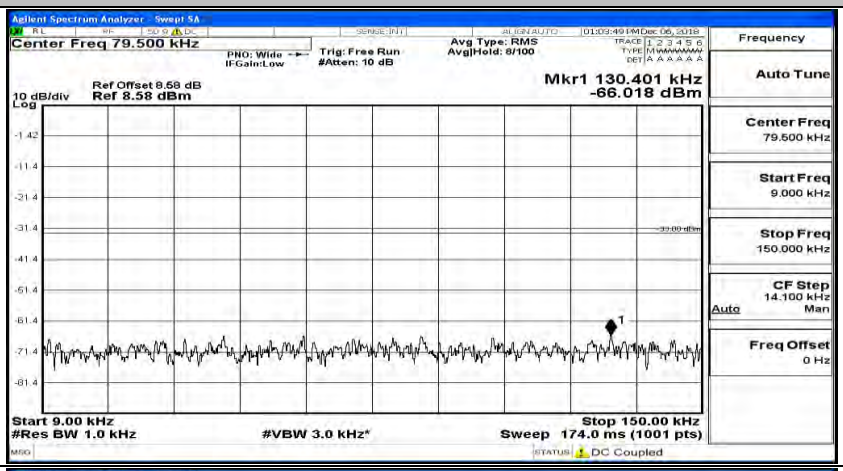


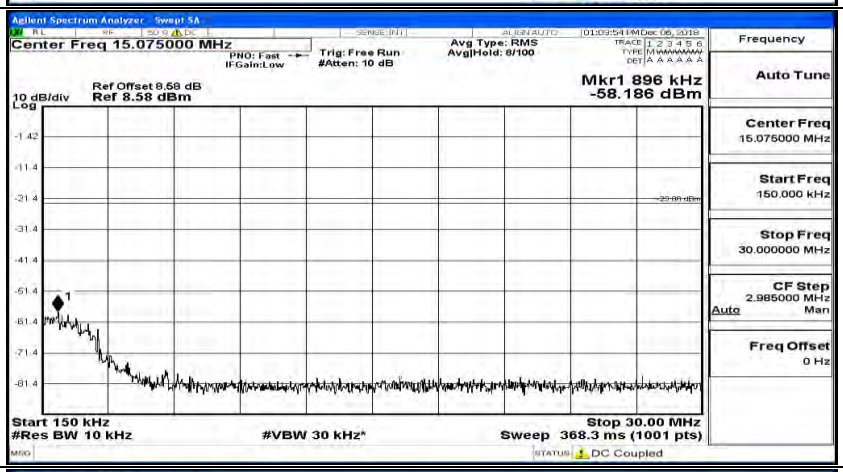


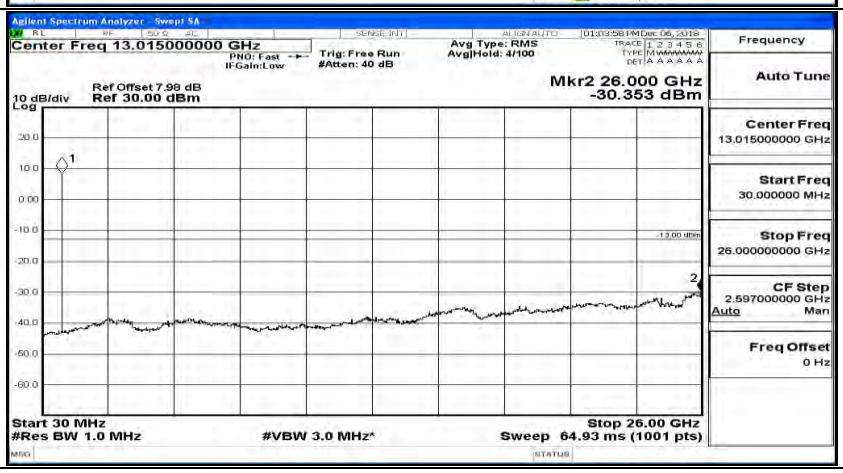


CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



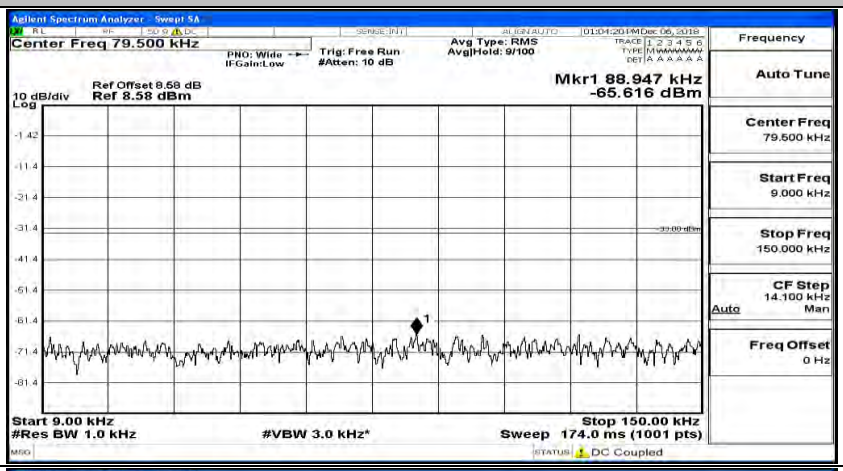
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM

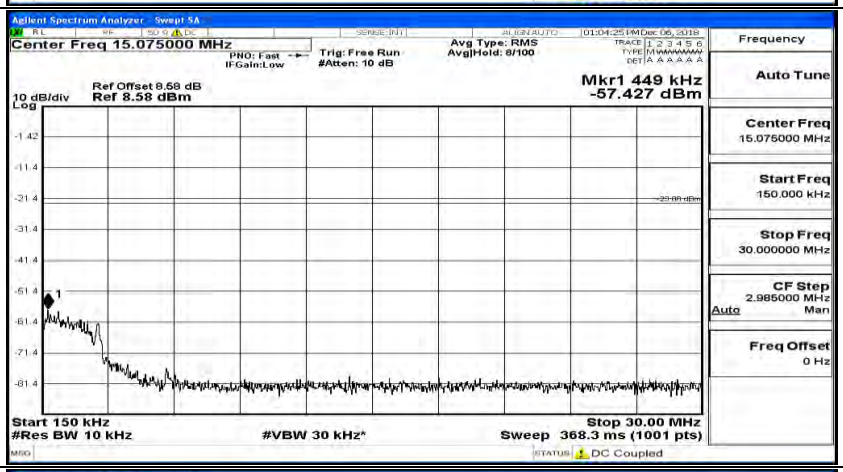


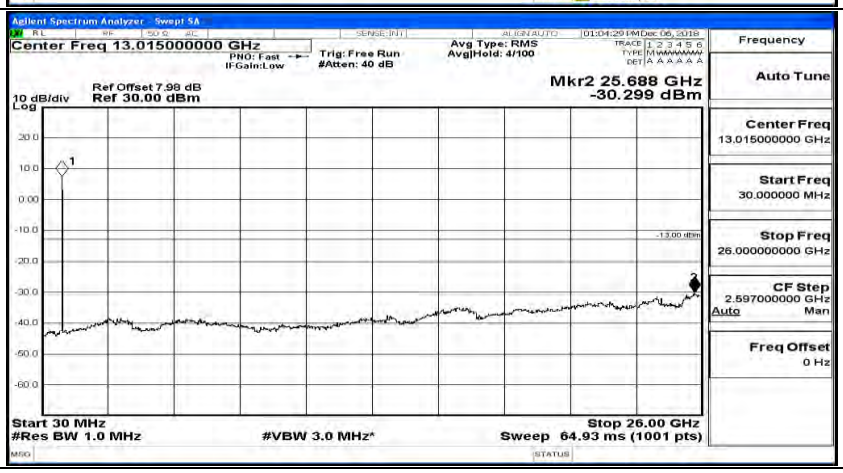




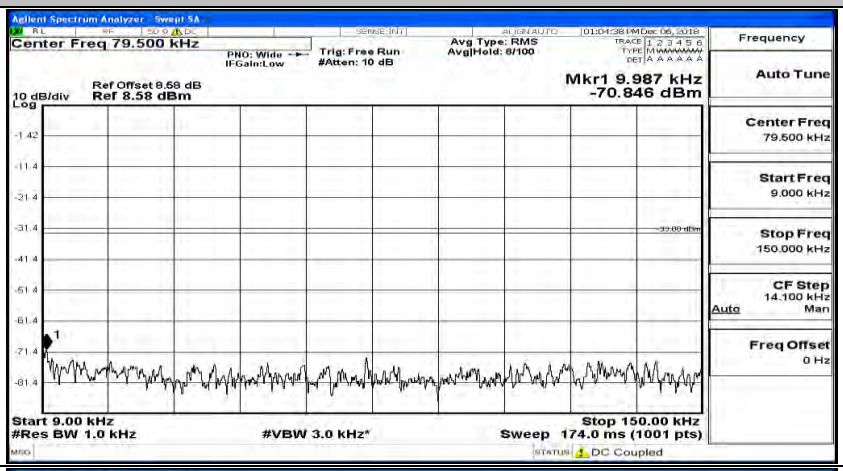
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM

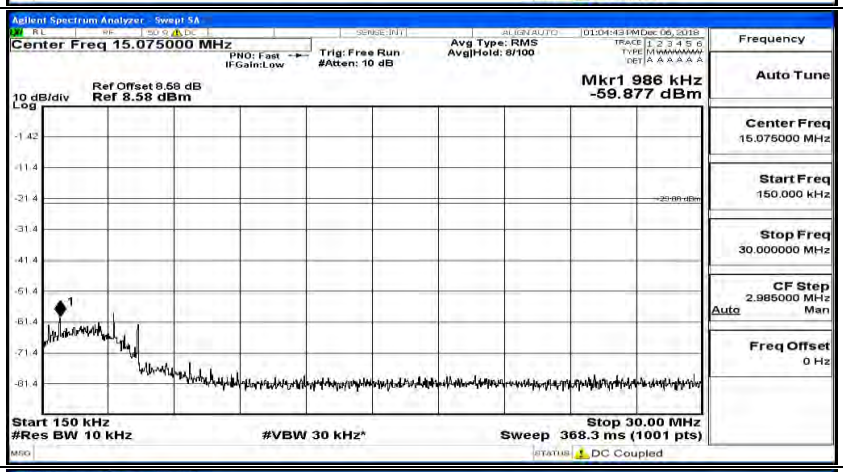


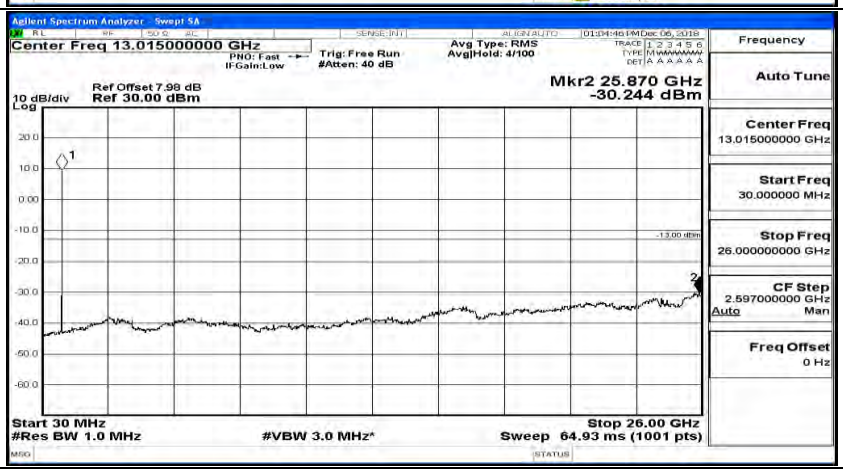




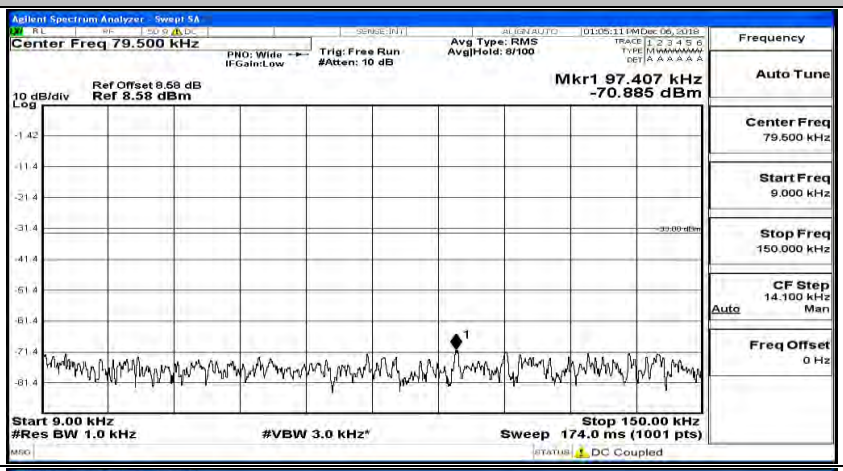
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK

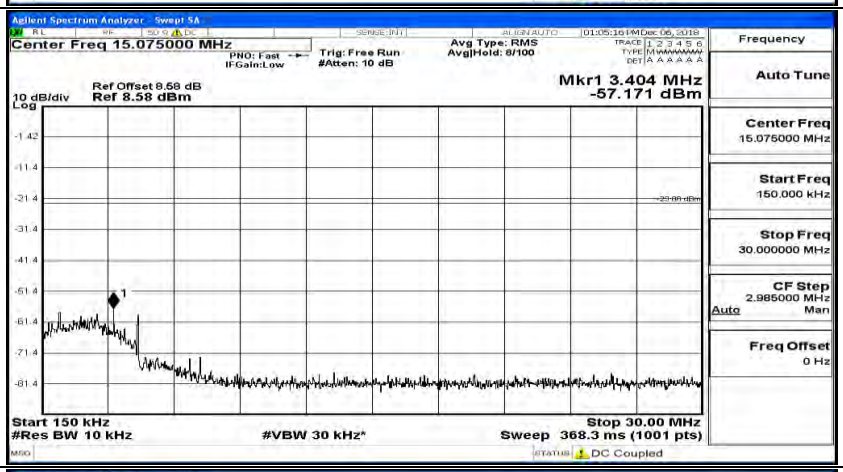


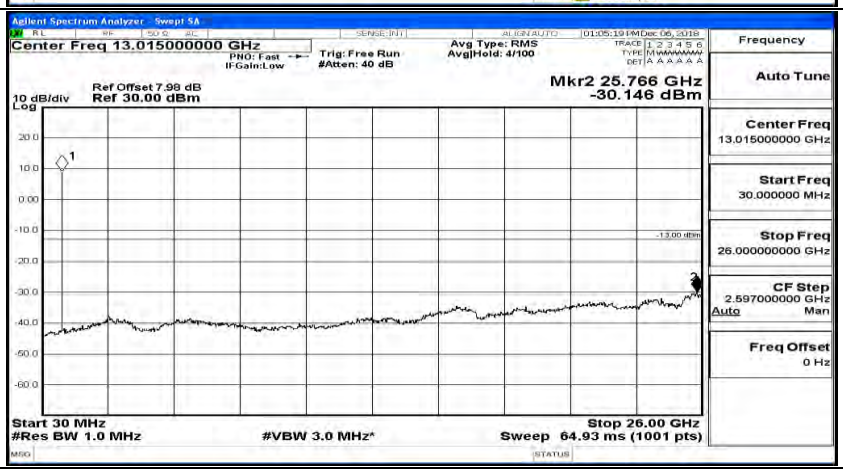




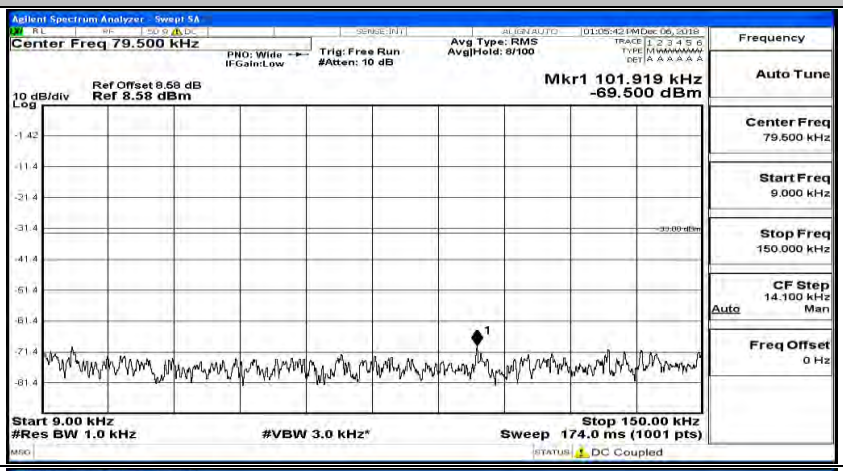
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK

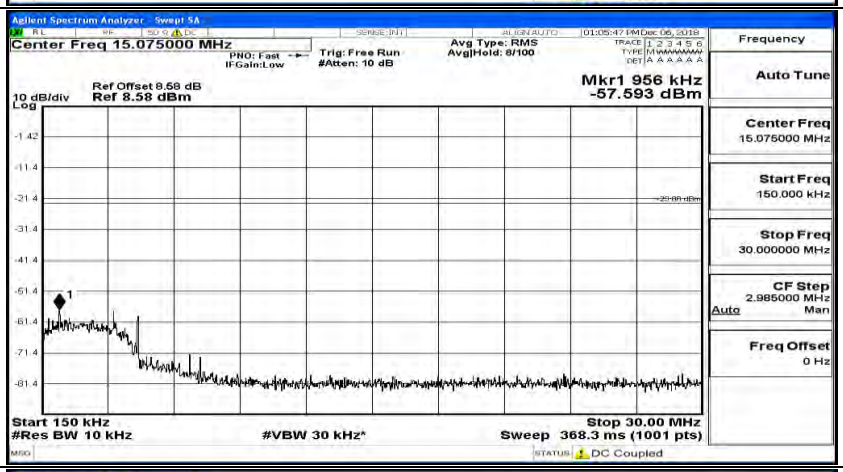




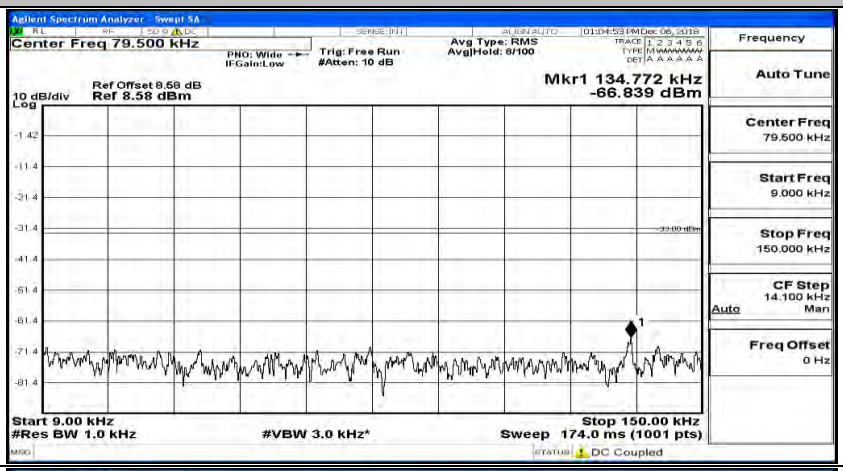


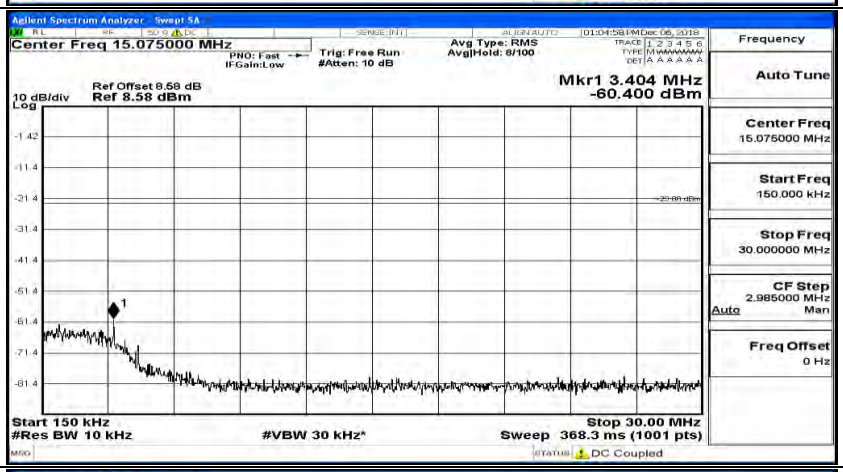
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK

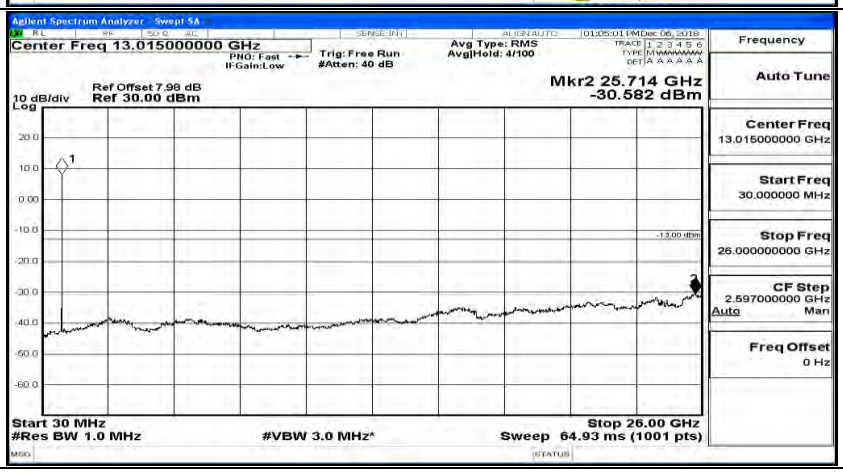




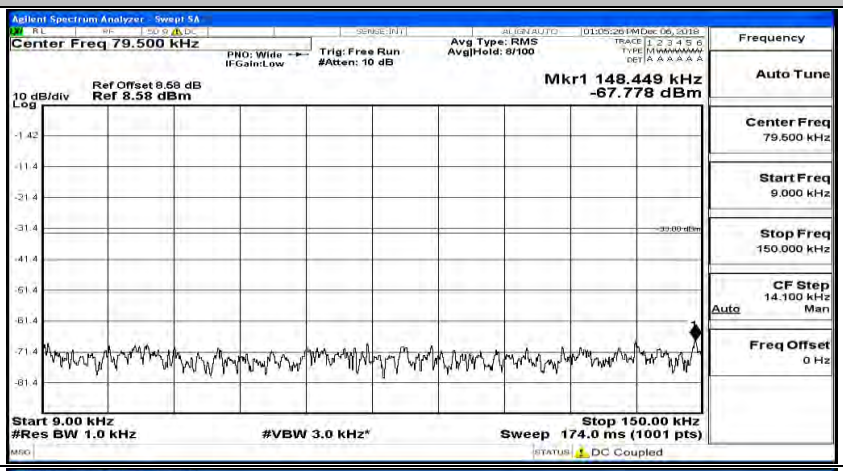
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM

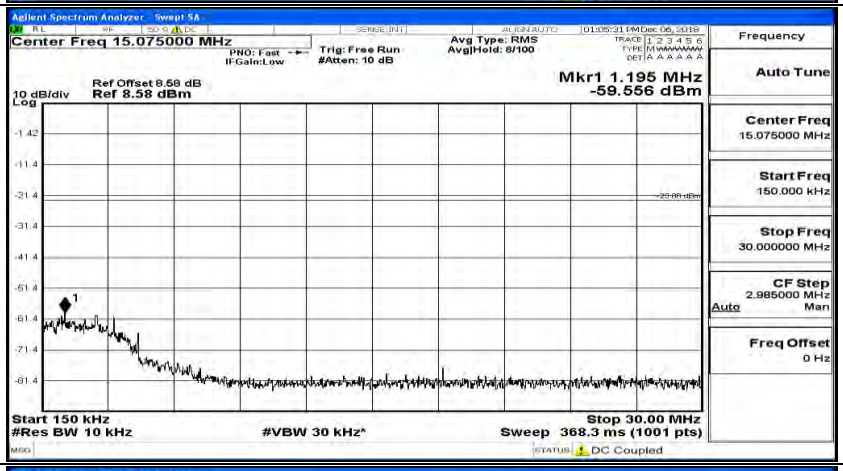




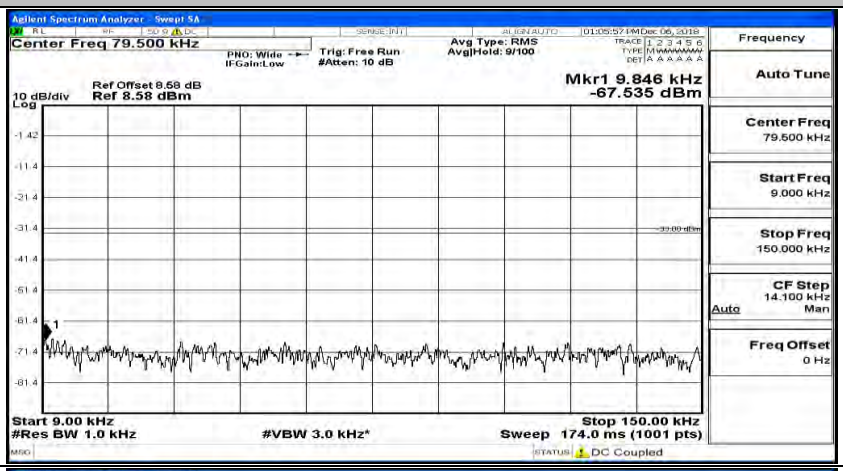


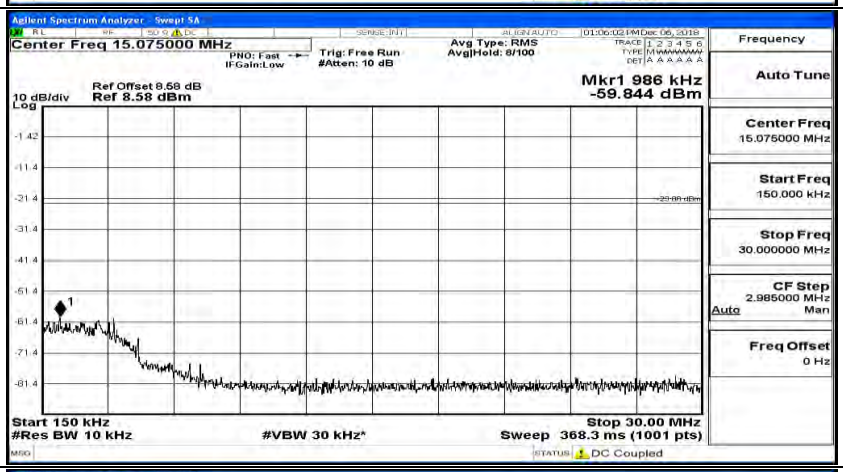
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM

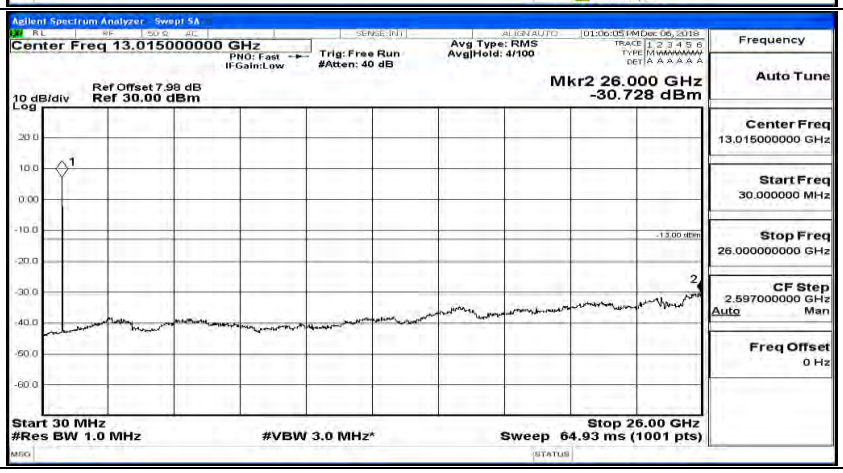




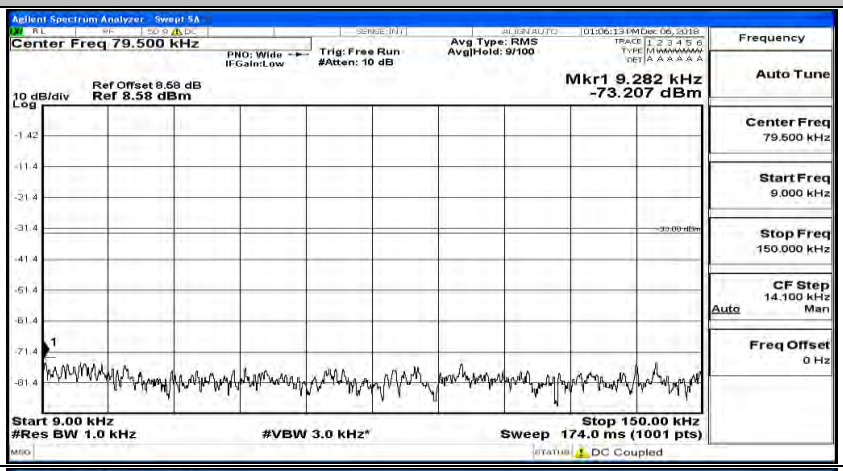
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM

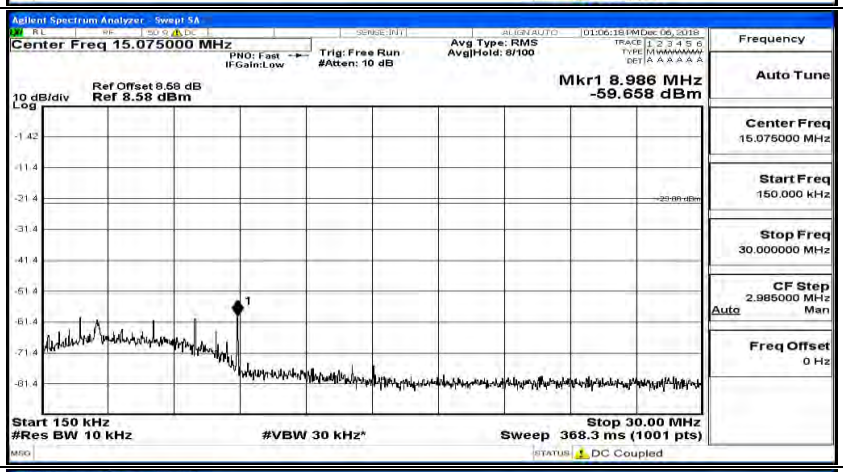




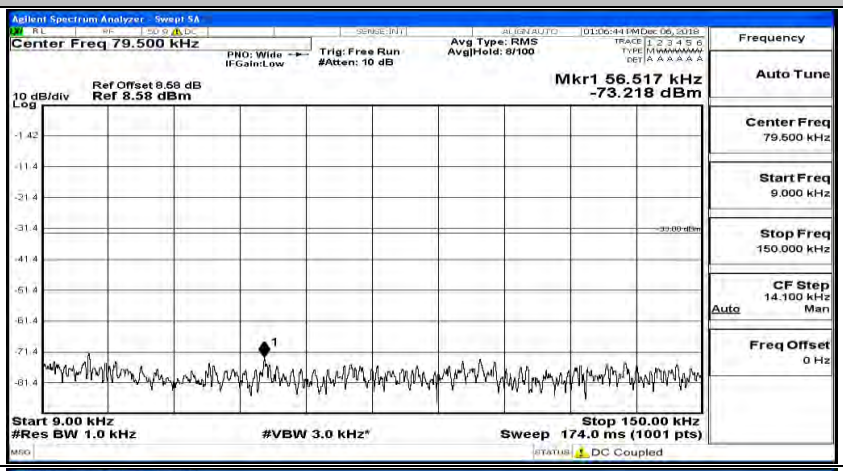


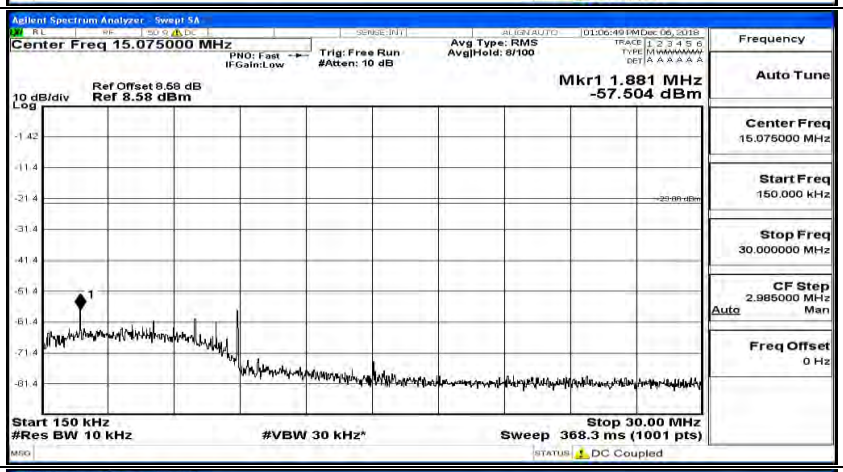
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK

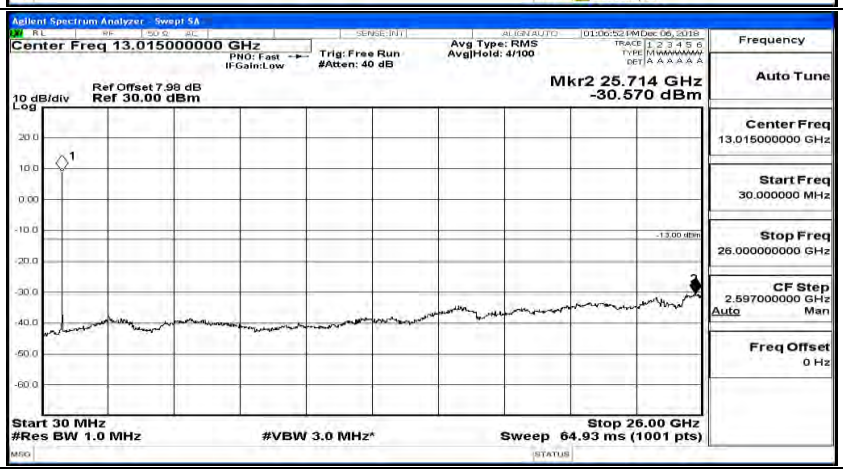




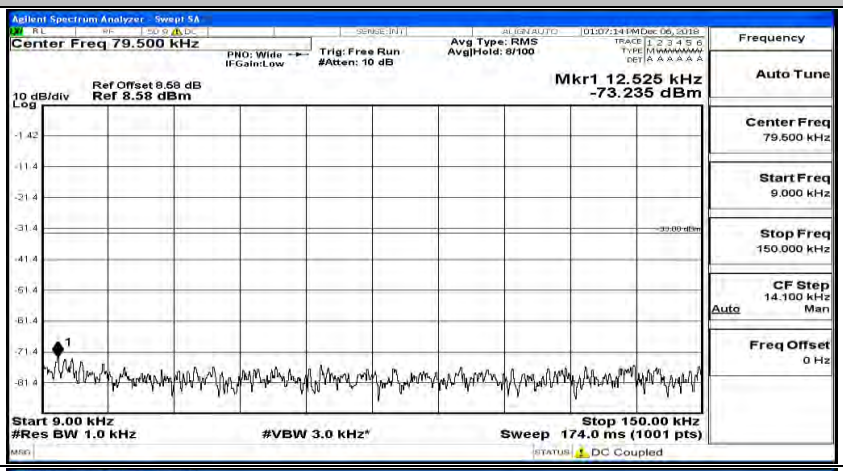
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK

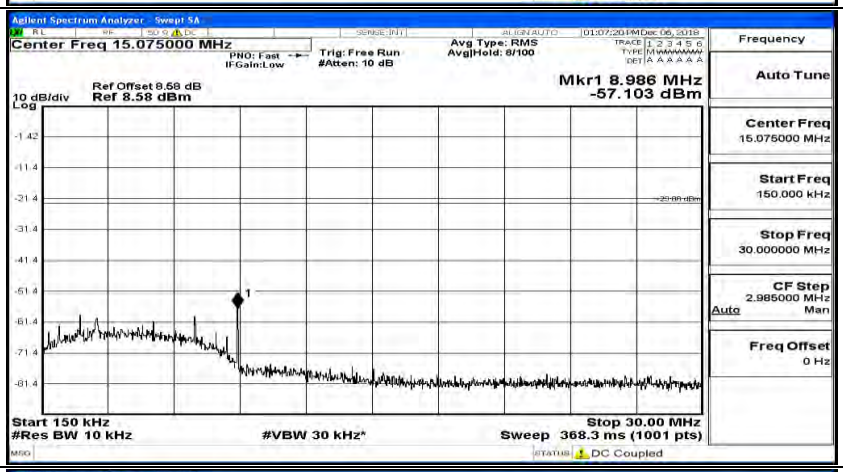




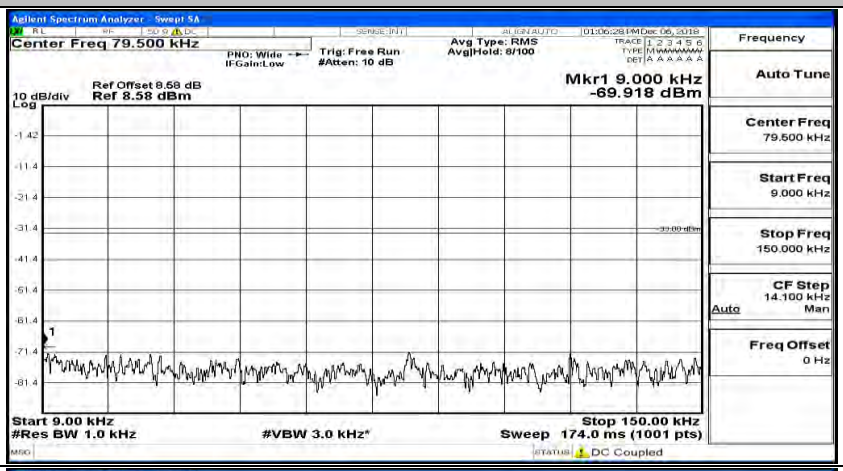


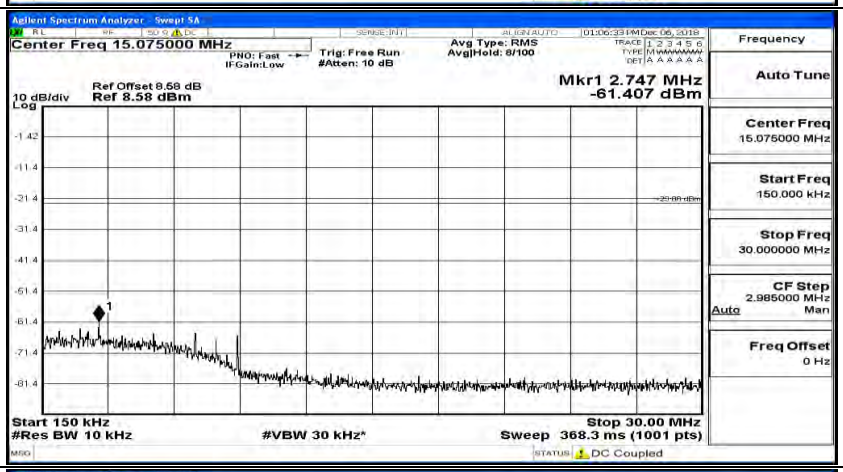
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK

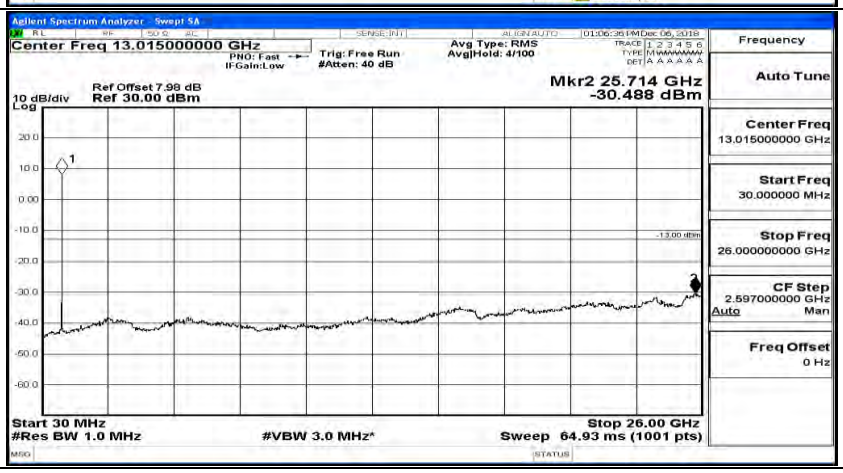




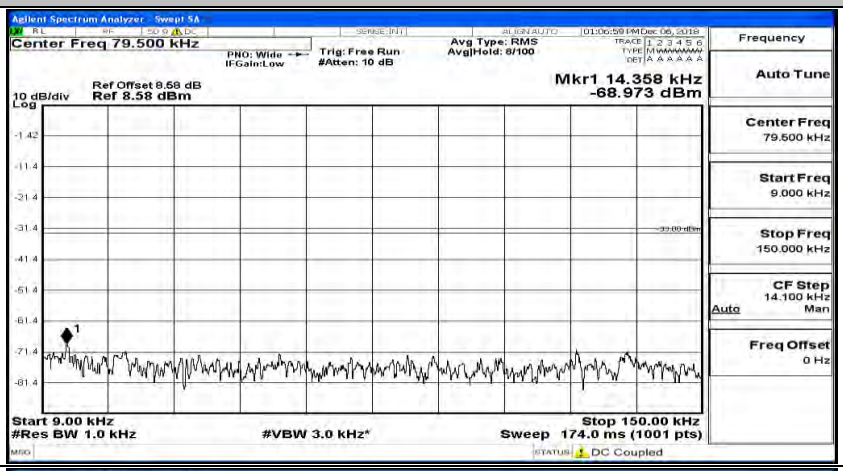
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM

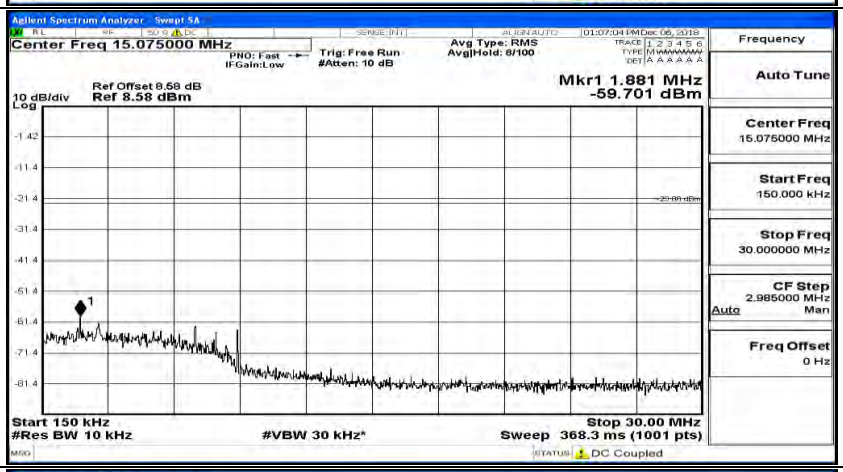


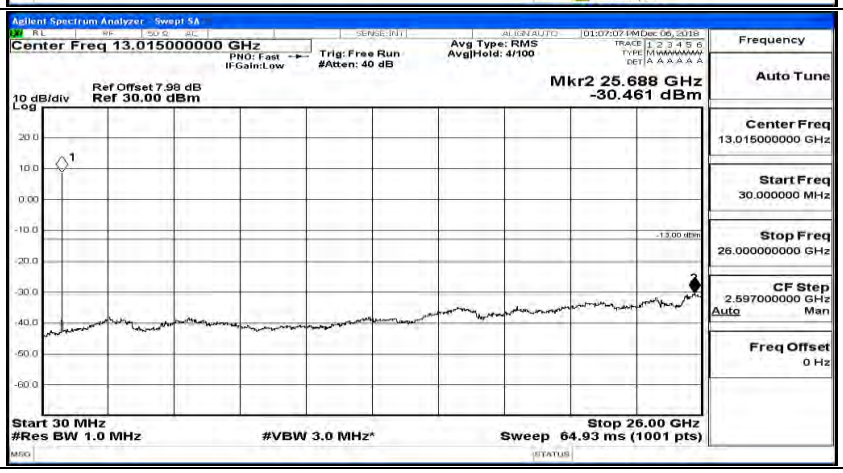
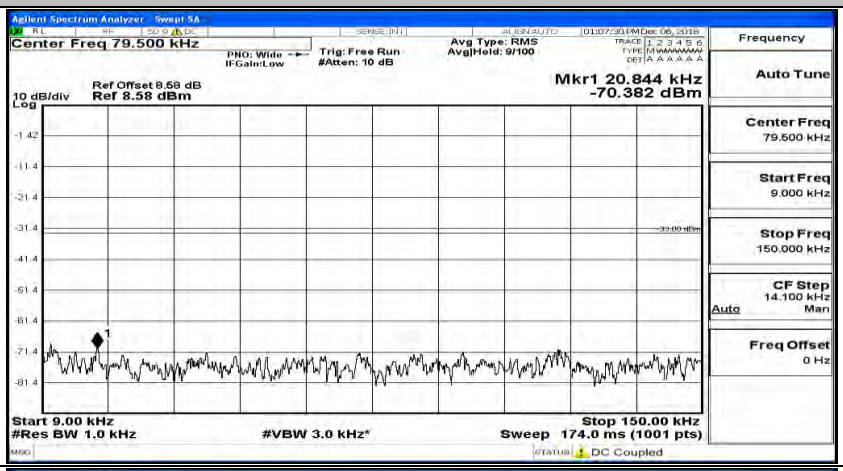
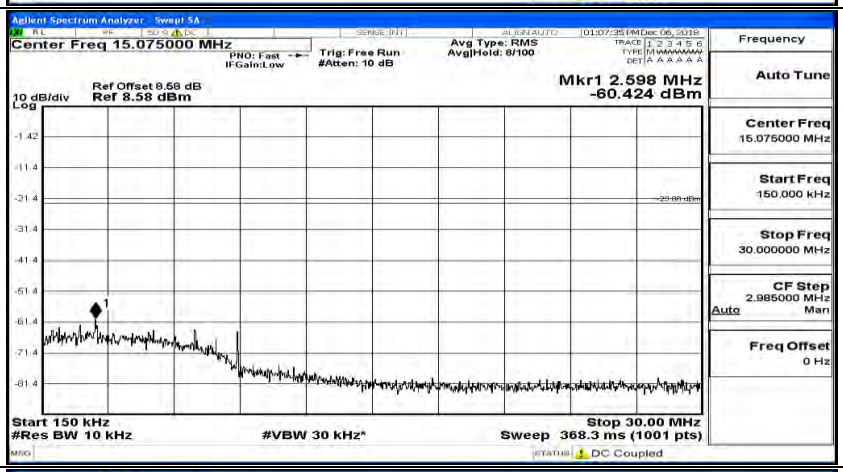
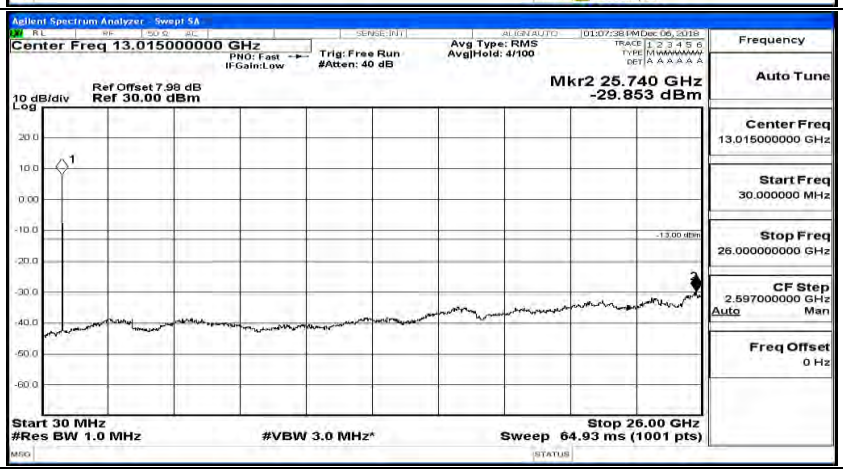




CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM







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