Appendix I: Test Data for E-UTRA Band 17

Product Name: Smartphone
Test Model: M12A

Environmental Conditions

Temperature:	24.1 ° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Wang Chuang
Supervised by:	Tom Liu

I.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Con1iguration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	O11set	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.63	22.74	PASS
		1	12	23.52	22.79	PASS
		1	24	23.21	22.67	PASS
		12	0	22.43	21.56	PASS
		12	6	22.45	21.64	PASS
		12	13	22.48	21.63	PASS
		25	0	22.49	21.52	PASS
	MCH	1	0	23.57	22.58	PASS
		1	12	23.33	22.47	PASS
		1	24	23.42	22.38	PASS
		12	0	22.53	21.54	PASS
		12	6	22.55	21.56	PASS
		12	13	22.41	21.45	PASS
		25	0	22.50	21.48	PASS
	HCH	1	0	23.56	22.74	PASS
		1	12	23.38	22.54	PASS
		1	24	22.47	21.85	PASS
		12	0	22.48	21.59	PASS
		12	6	22.46	21.49	PASS
		12	13	22.28	21.27	PASS
		25	0	22.30	21.38	PASS

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Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Con1iguration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	O11set	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.90	22.84	PASS
		1	24	23.50	22.76	PASS
		1	49	23.50	22.91	PASS
		25	0	22.49	21.55	PASS
		25	12	22.53	21.50	PASS
		25	25	22.54	21.48	PASS
		50	0	22.48	21.47	PASS
	MCH	1	0	23.60	22.90	PASS
		1	24	23.55	22.74	PASS
		1	49	23.57	22.84	PASS
		25	0	22.52	21.51	PASS
		25	12	22.49	21.44	PASS
		25	25	22.35	21.42	PASS
		50	0	22.54	21.49	PASS
	HCH	1	0	23.45	22.84	PASS
		1	24	23.39	22.81	PASS
		1	49	23.06	22.46	PASS
		25	0	22.59	21.60	PASS
		25	12	22.41	21.48	PASS
		25	25	22.31	21.32	PASS
		50	0	22.42	21.56	PASS

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I.2 Peak-to-Average Ratio

Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.84	<13	PASS
	MCH	5.24	<13	PASS
	HCH	4.71	<13	PASS
16QAM	LCH	5.65	<13	PASS
	MCH	6.1	<13	PASS
	HCH	5.56	<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	5.06	<13	PASS
	HCH	5.08	<13	PASS
16QAM	LCH	5.85	<13	PASS
	MCH	5.84	<13	PASS
	HCH	5.82	<13	PASS

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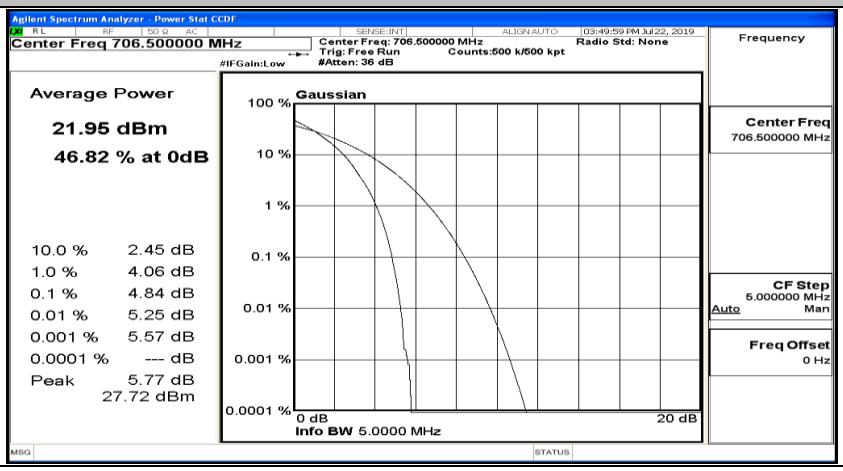
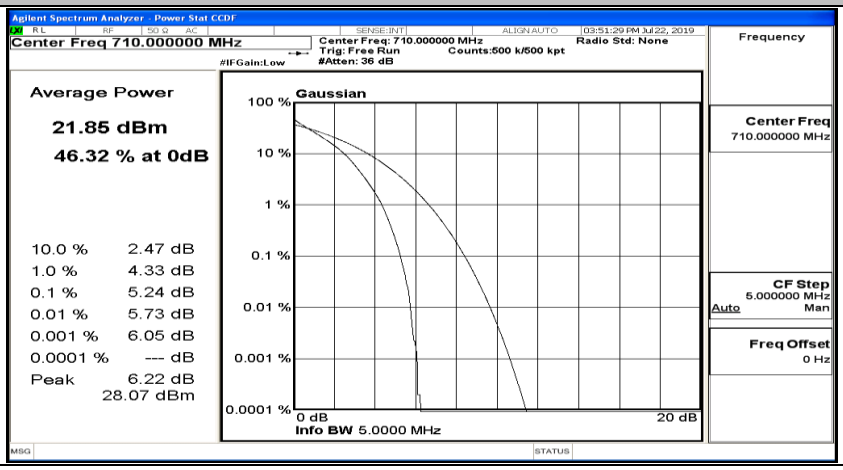
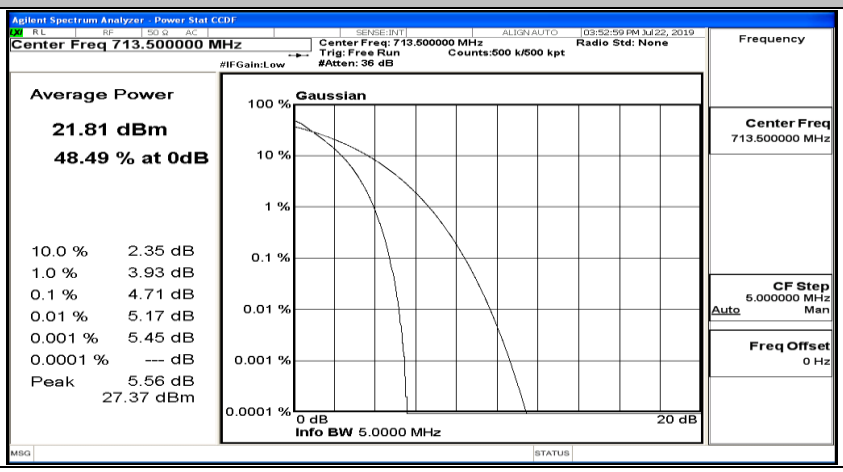
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



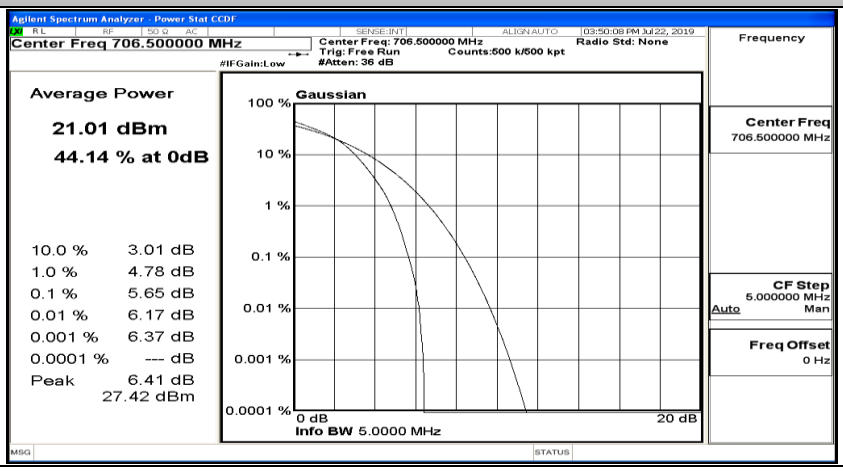
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



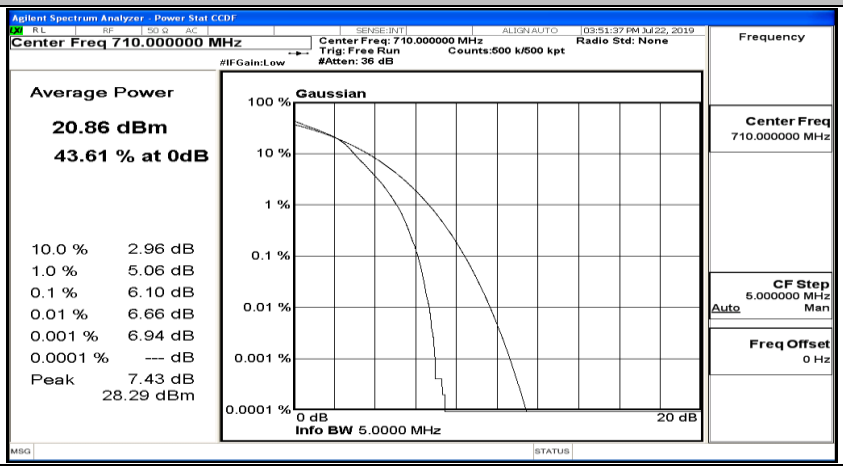
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



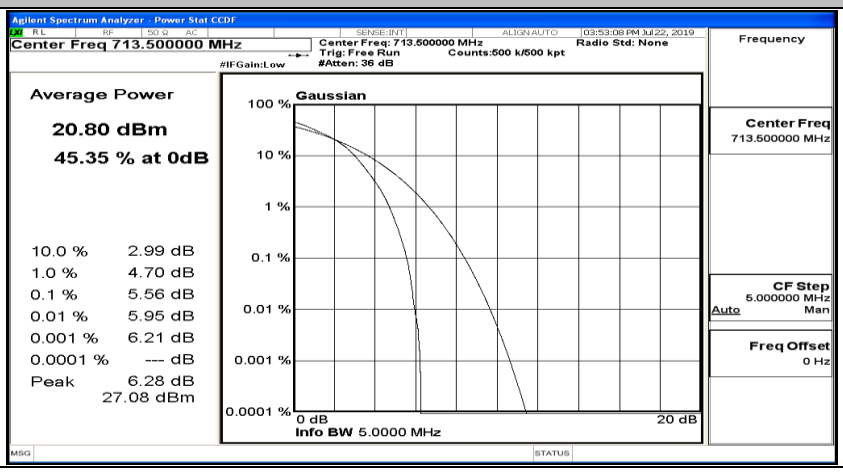
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



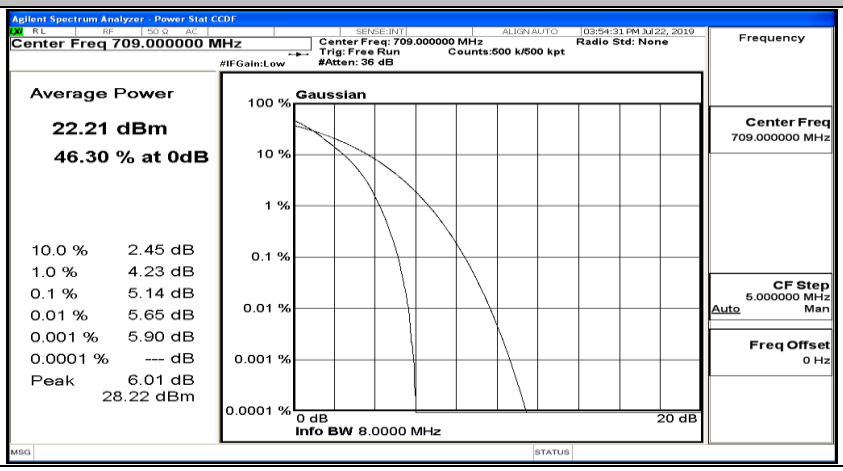
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



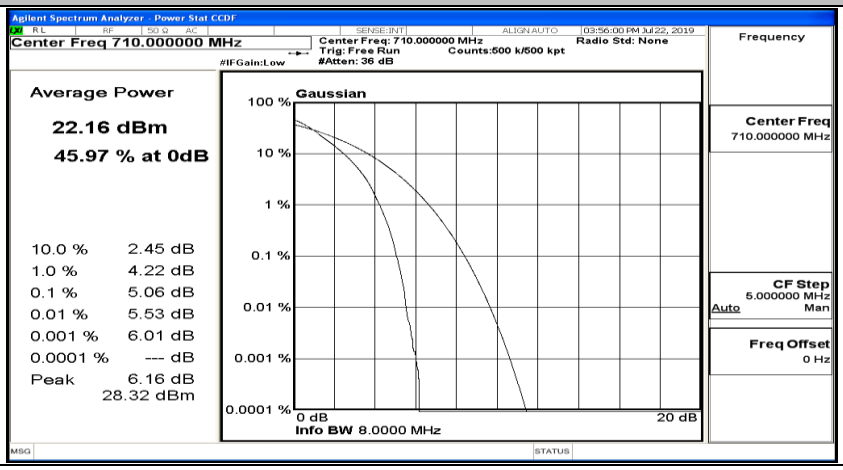
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



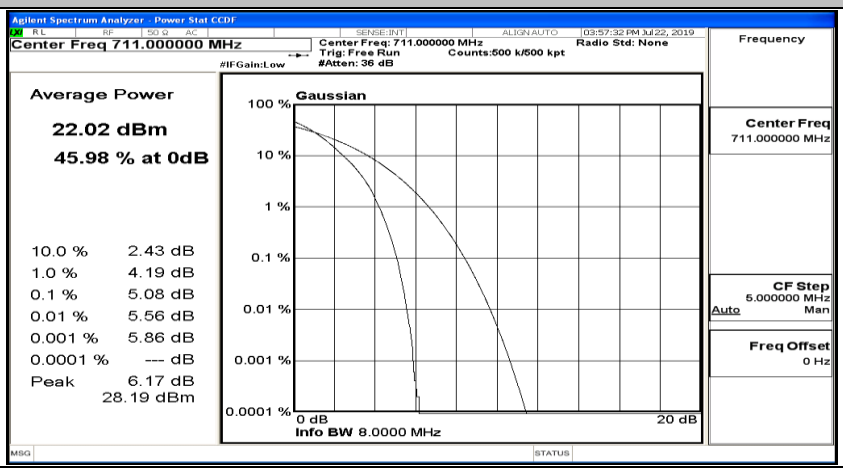
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



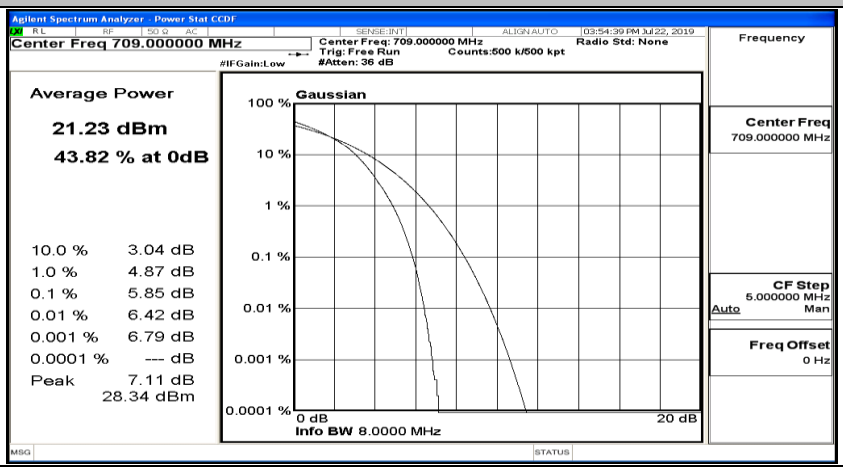
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



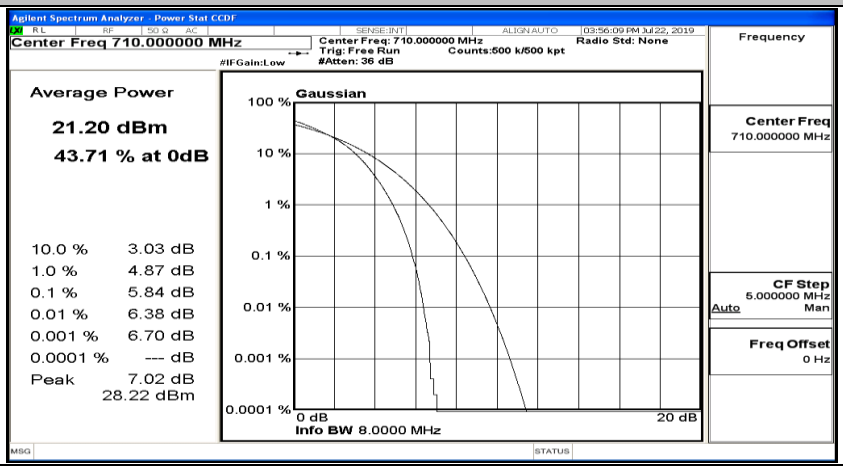
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



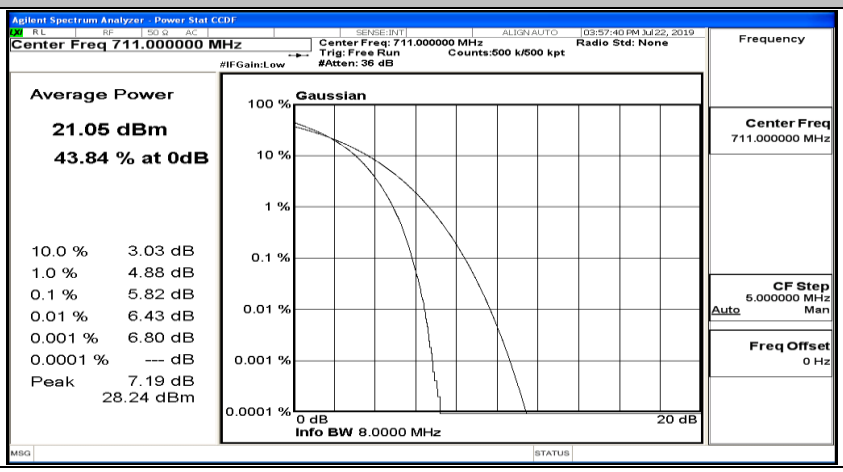
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

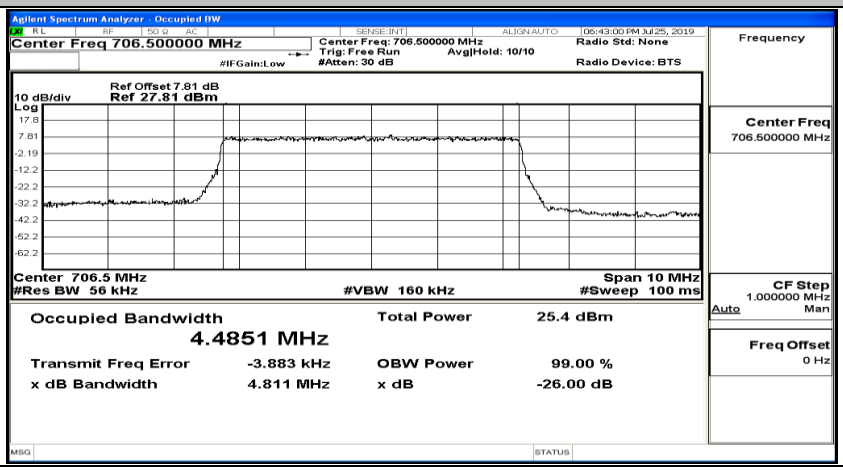


I.3 26dB Bandwidth and Occupied Bandwidth

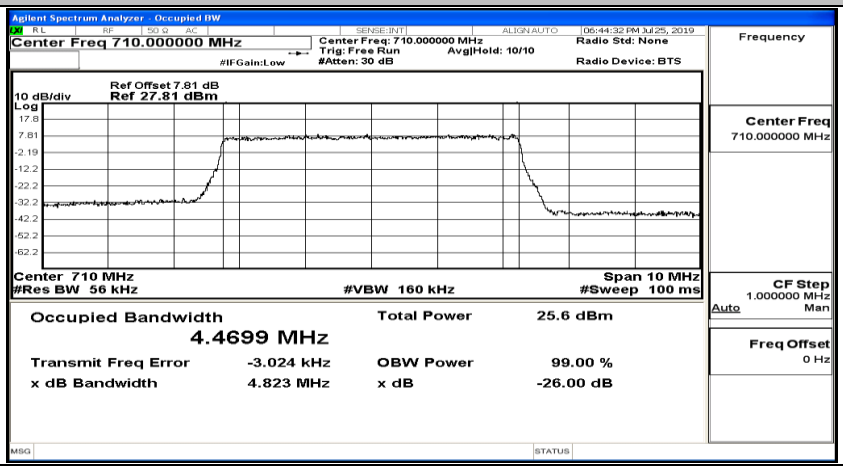
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4851	4.811	PASS
	MCH	4.4699	4.823	PASS
	HCH	4.4799	4.818	PASS
16QAM	LCH	4.4654	4.857	PASS
	MCH	4.4844	4.805	PASS
	HCH	4.4730	4.804	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9476	9.421	PASS
	MCH	8.9334	9.487	PASS
	HCH	8.9081	9.400	PASS
16QAM	LCH	8.9490	9.474	PASS
	MCH	8.9293	9.370	PASS
	HCH	8.9288	9.424	PASS

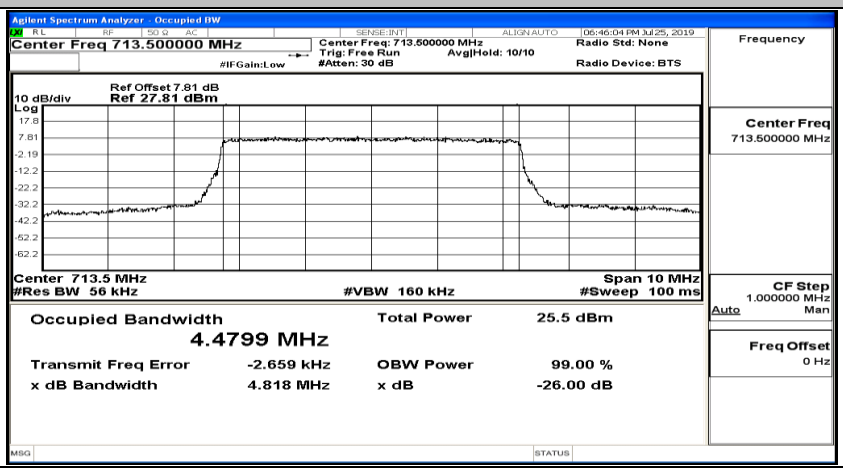
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



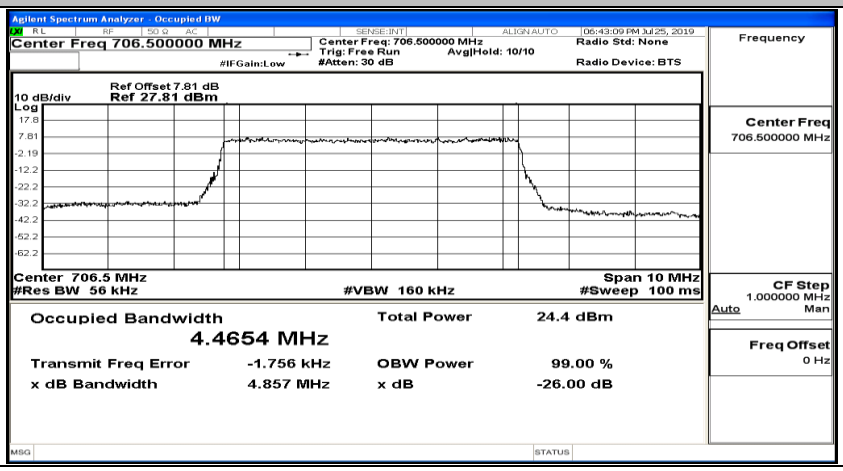
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



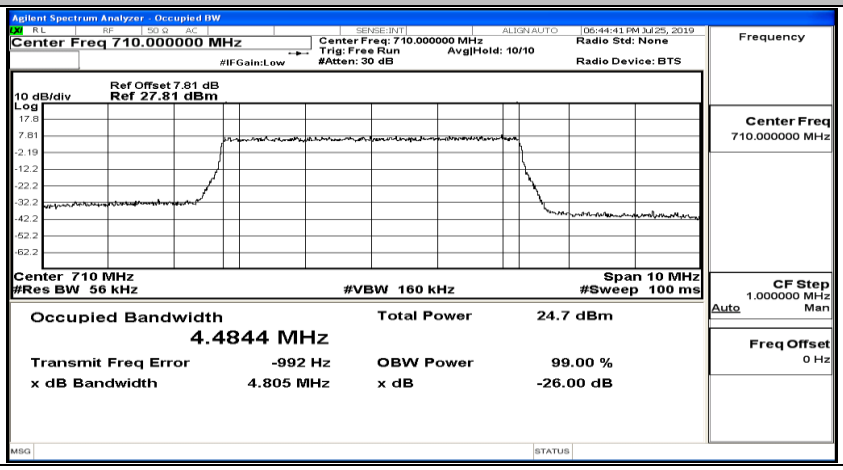
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



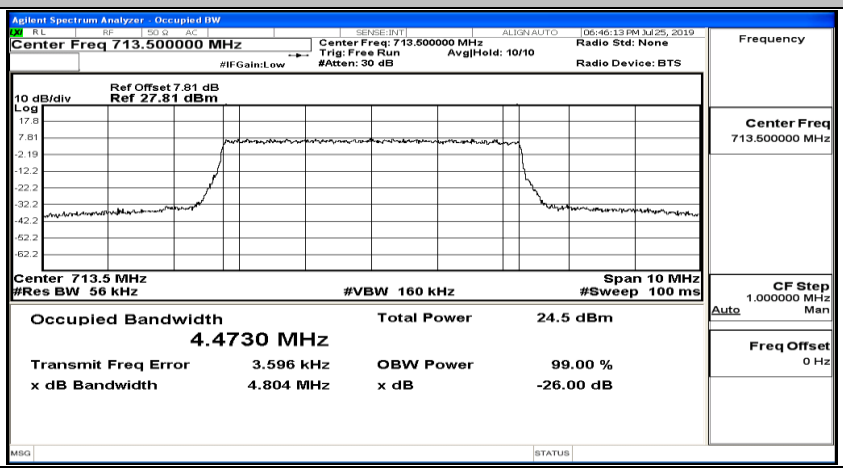
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



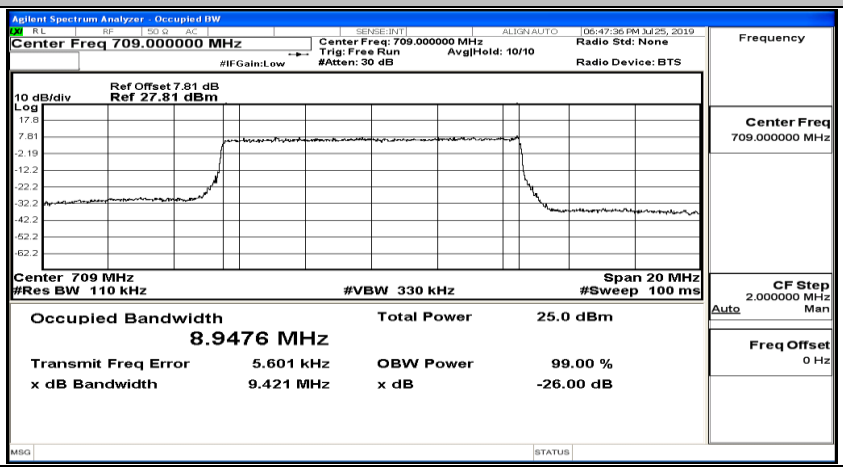
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



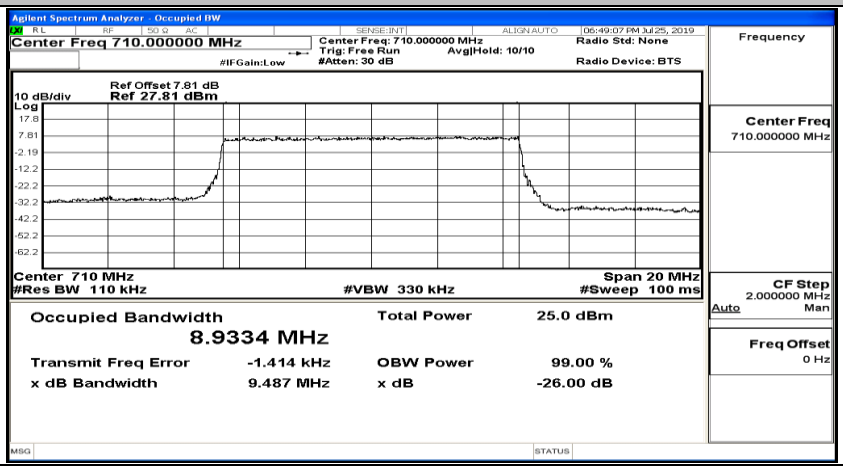
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



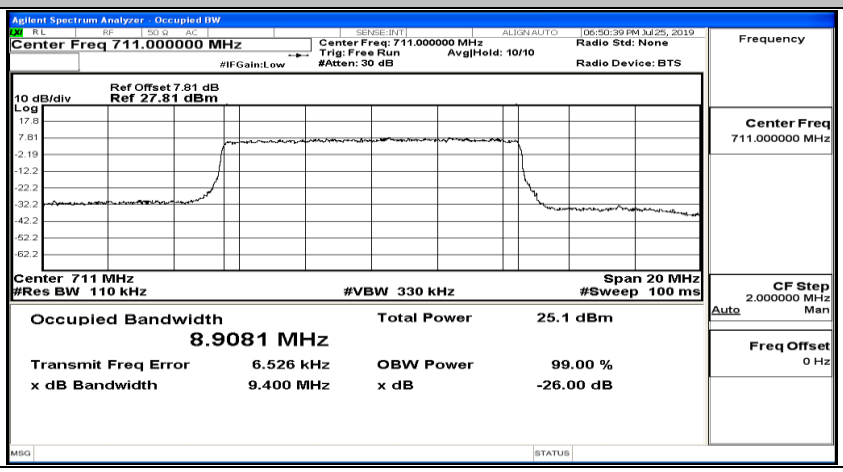
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



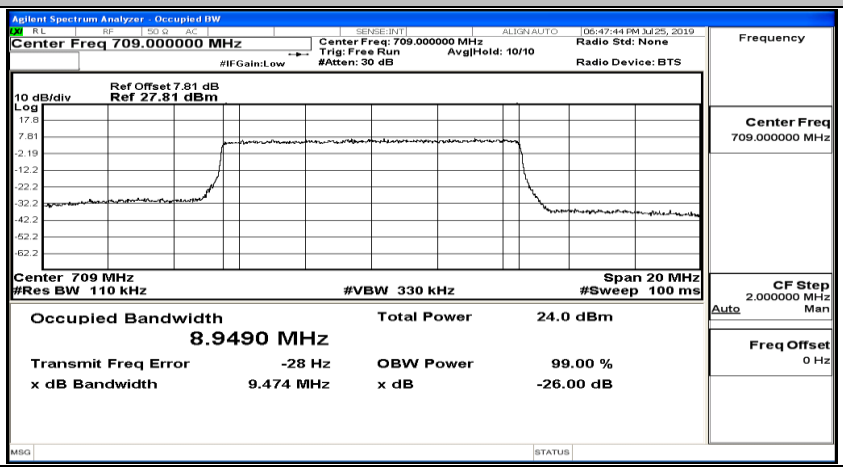
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



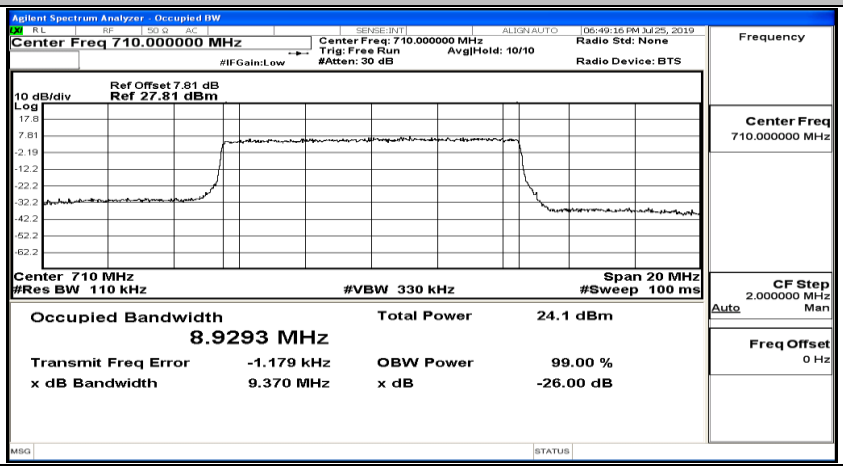
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



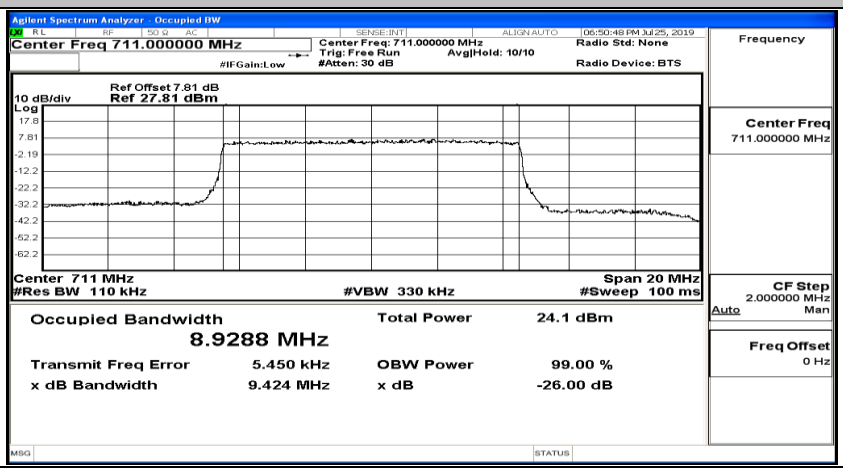
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

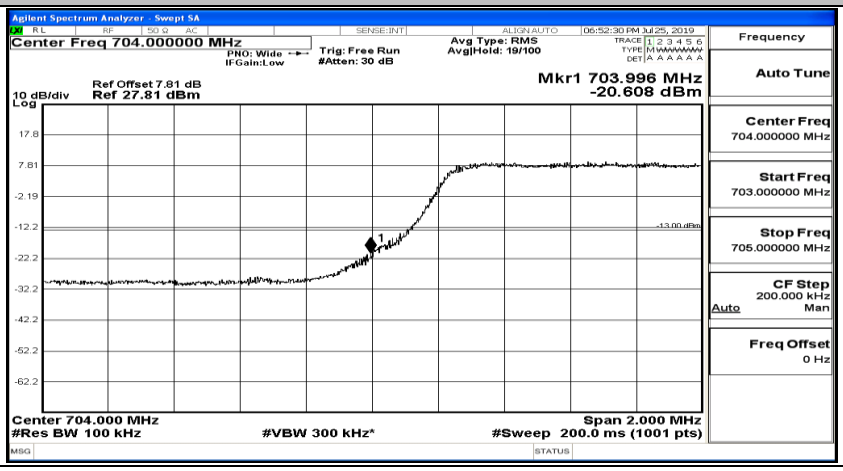


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

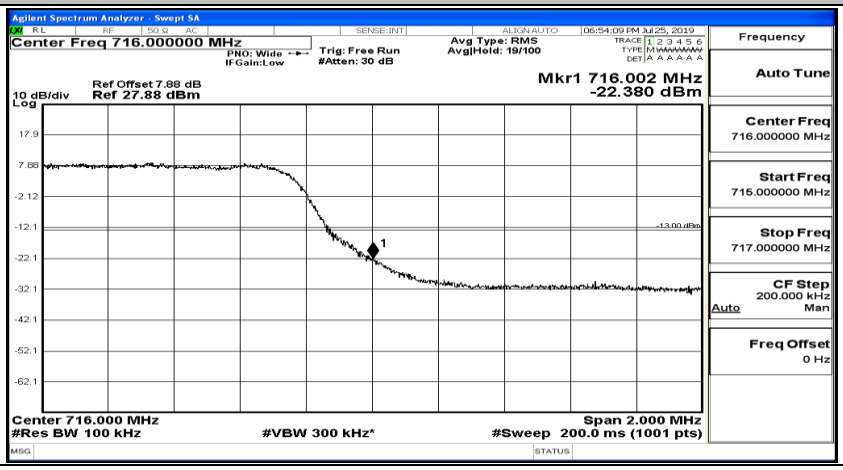


I.4 Band Edge

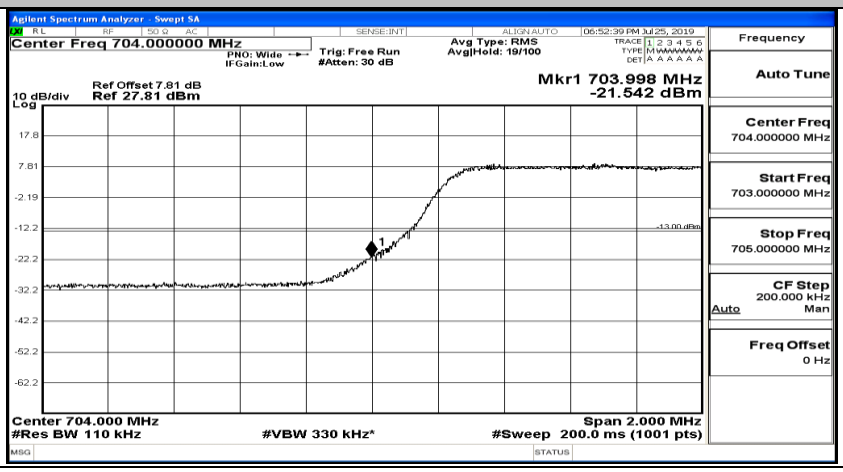
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



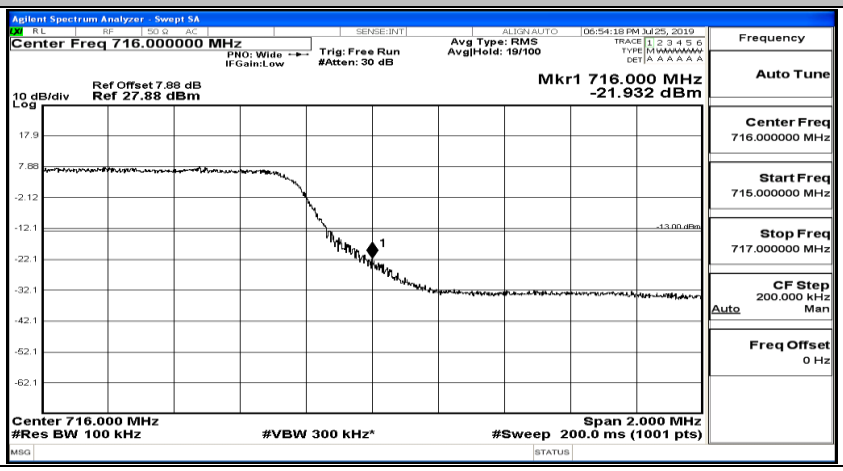
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



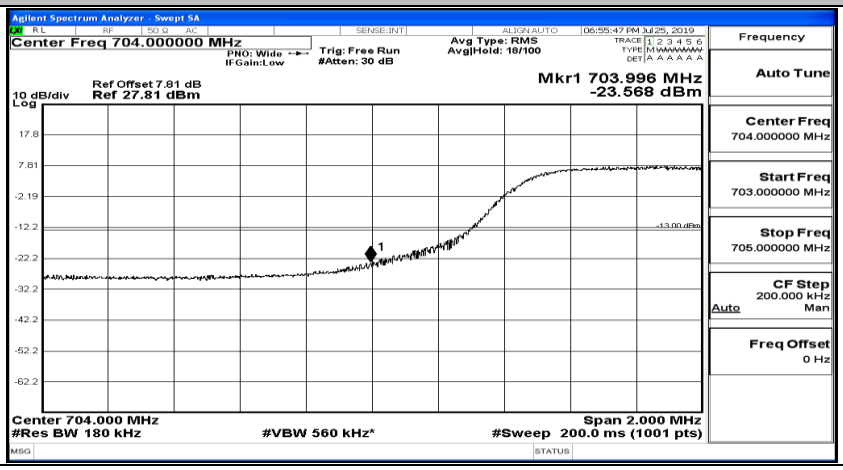
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



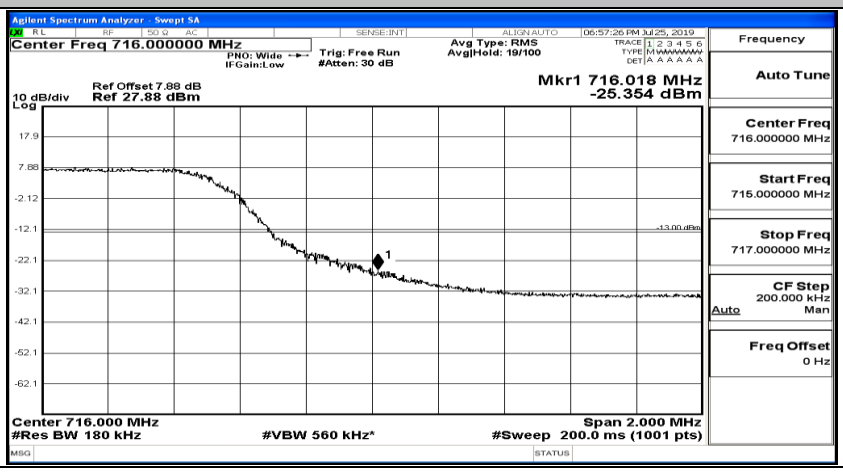
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



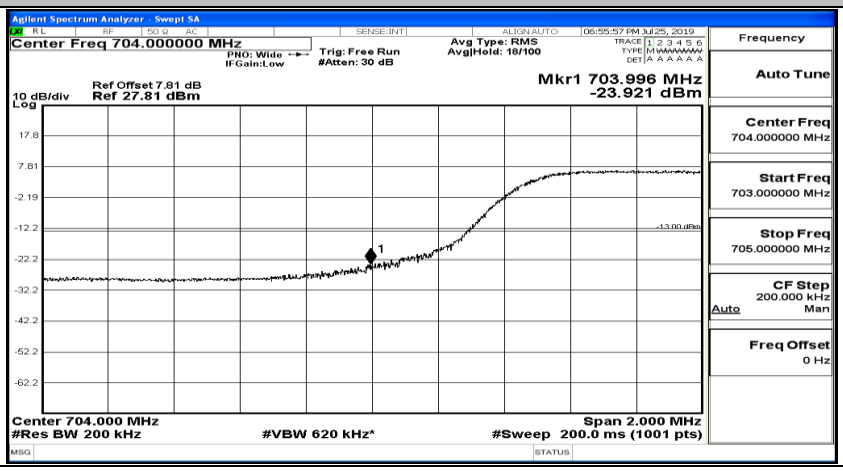
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



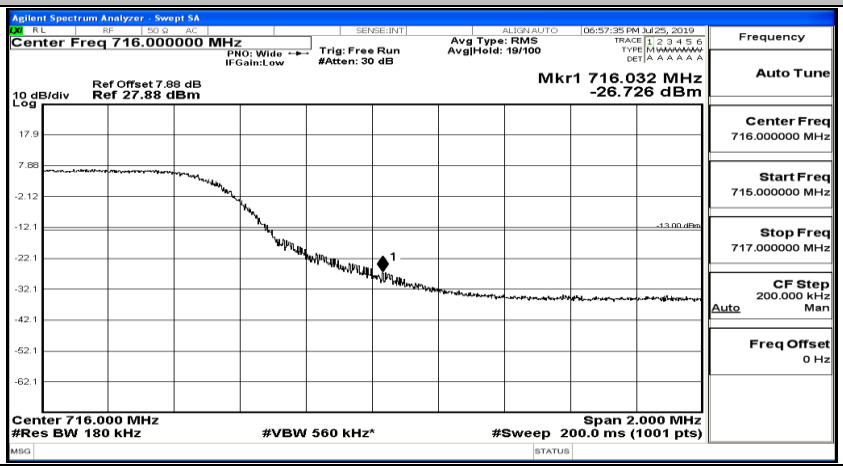
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



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

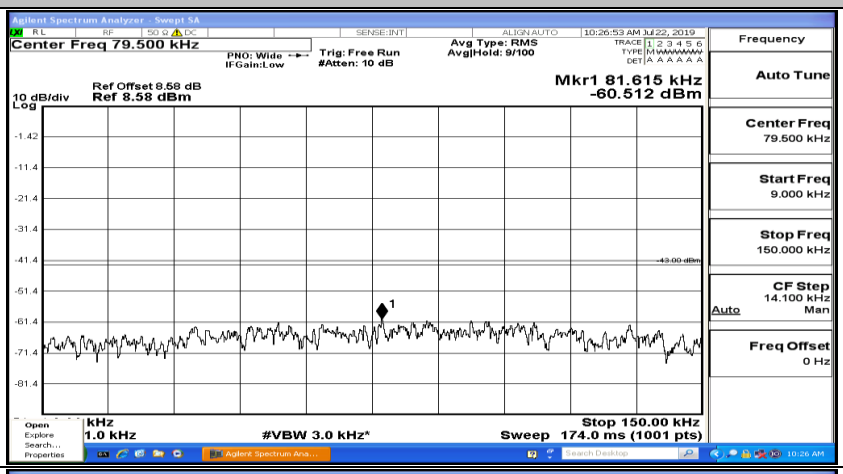


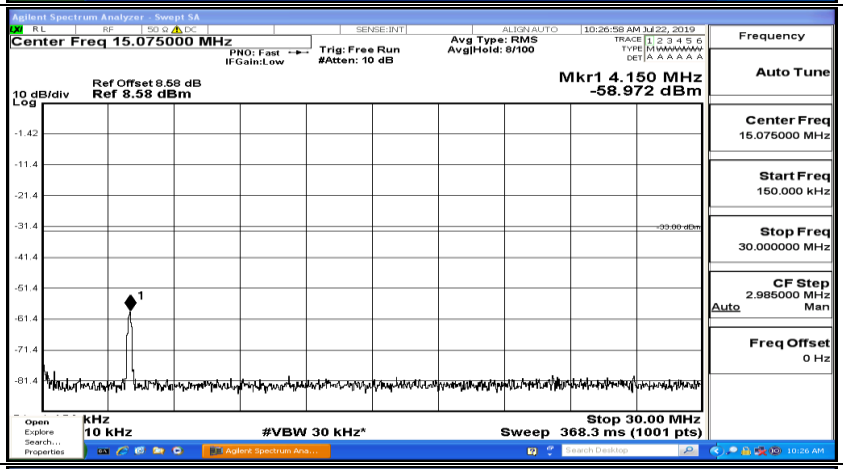
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

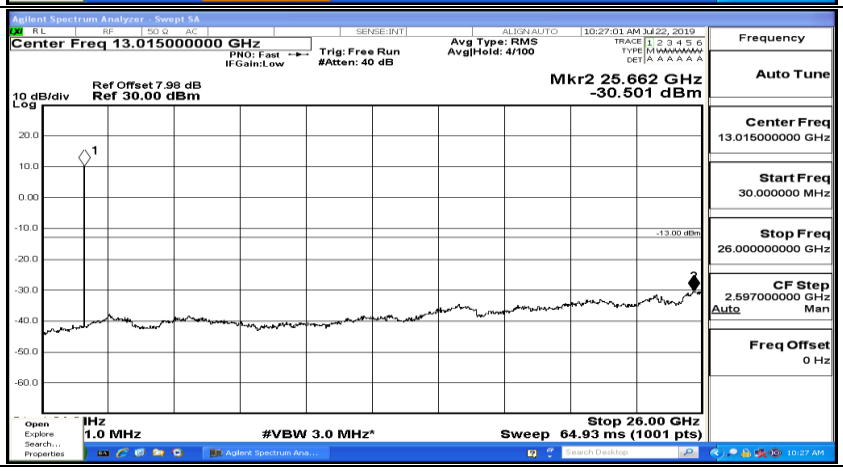


I.5 Conducted Spurious Emission

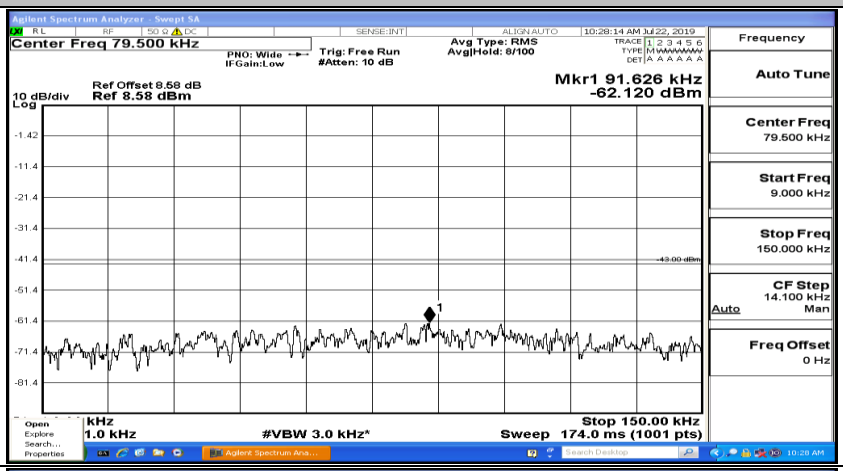
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK

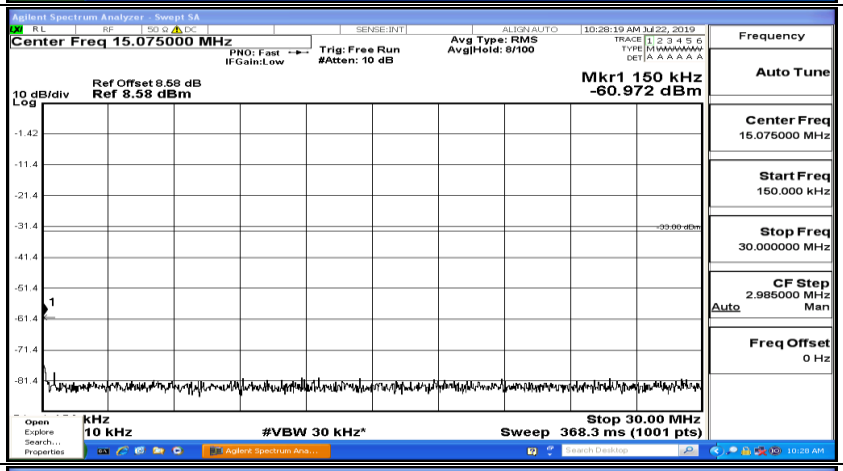


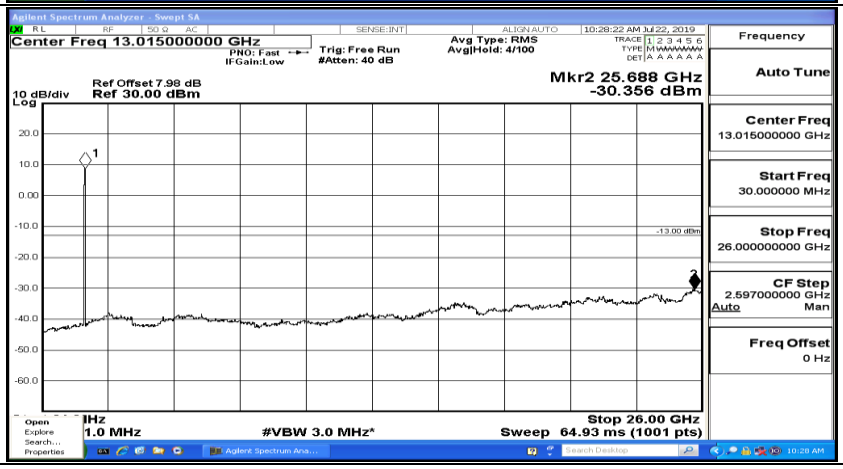




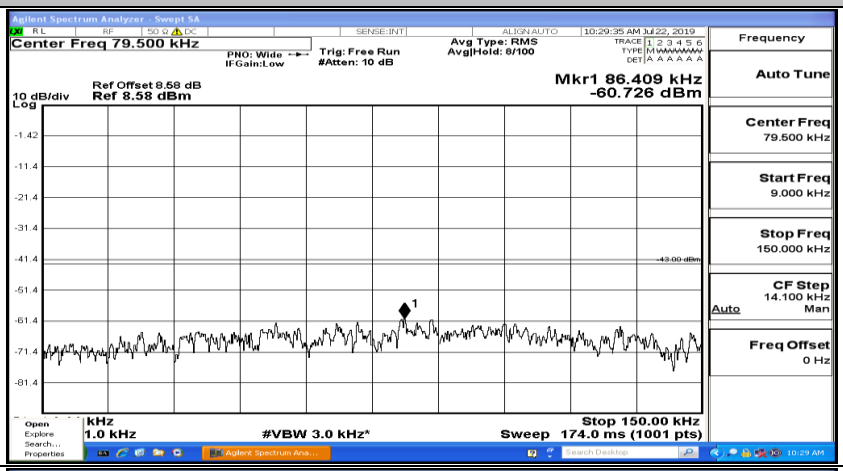
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK

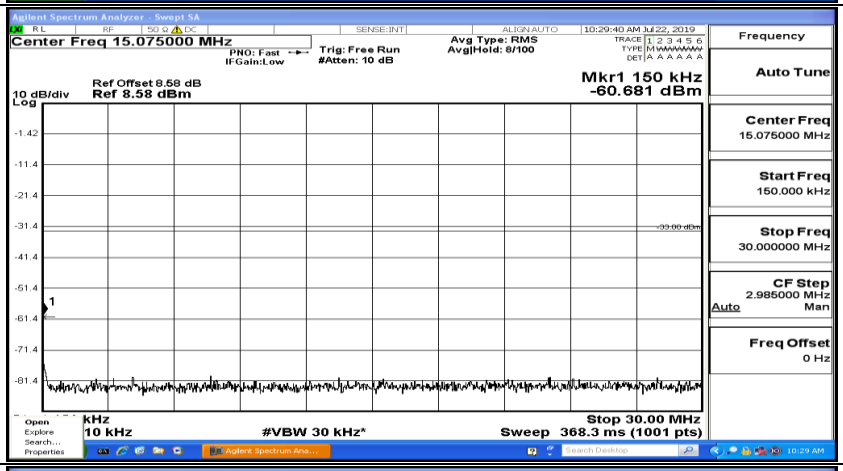


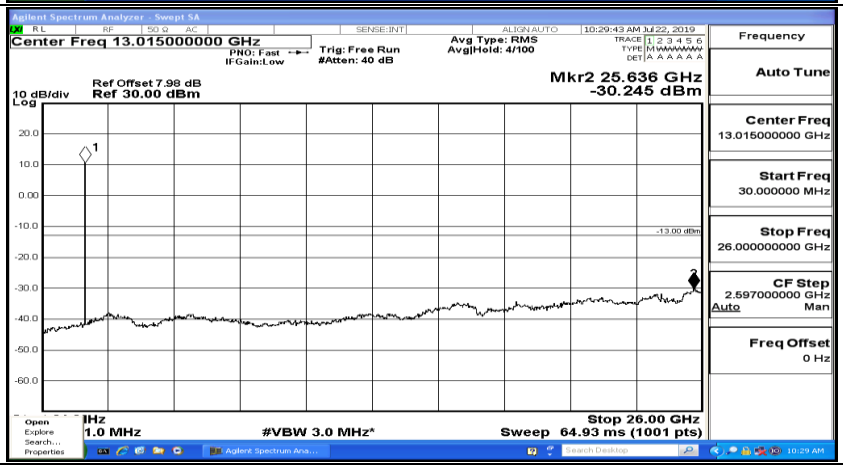




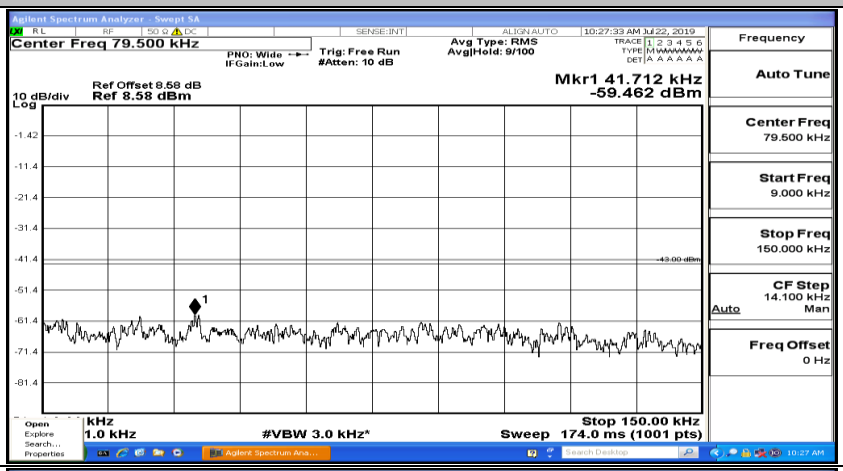
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK

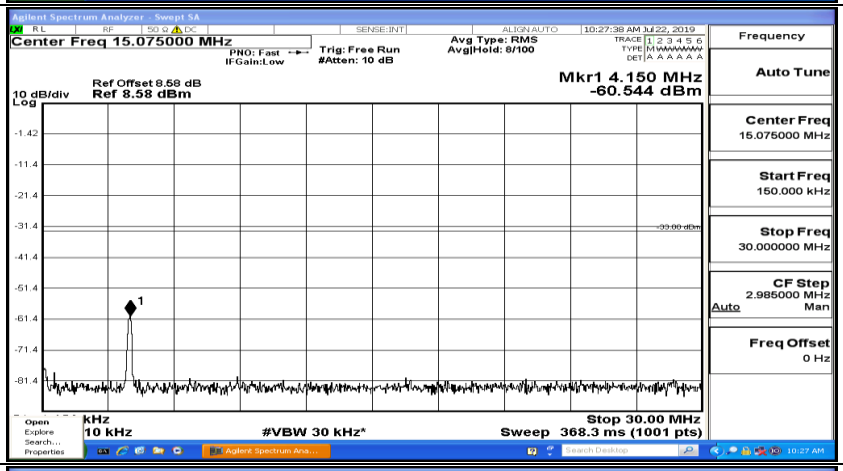


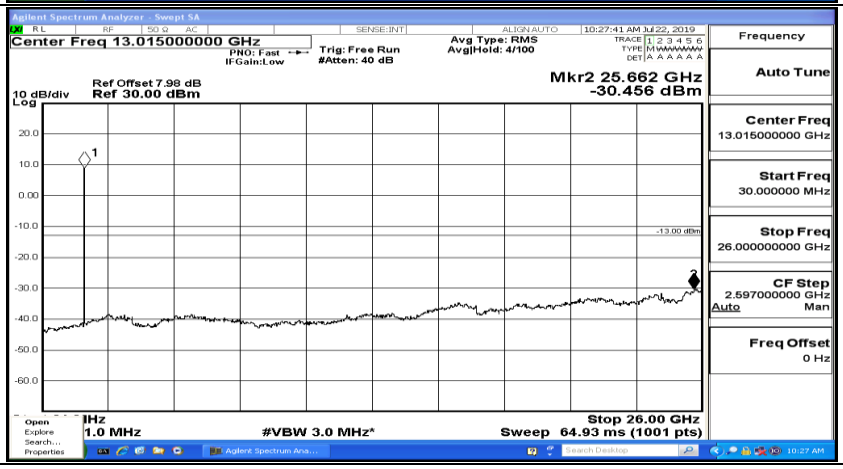




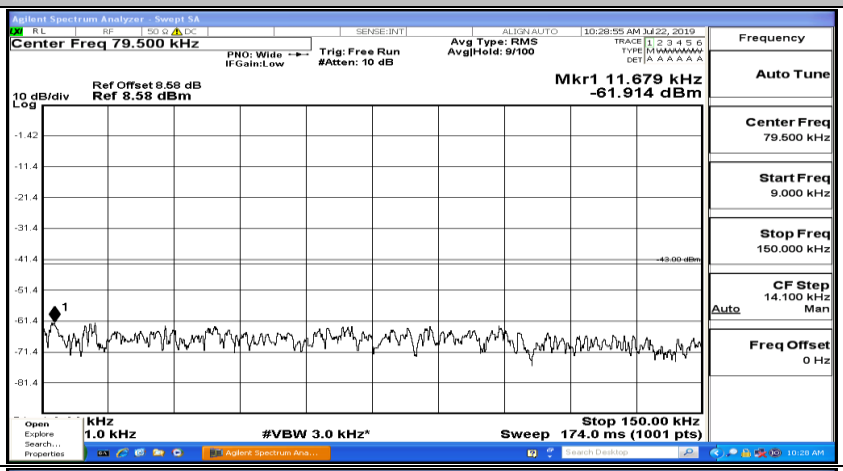
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM

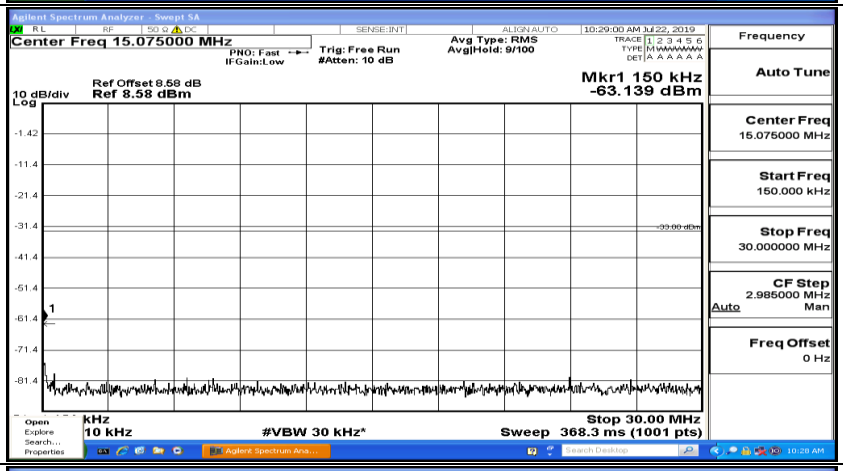


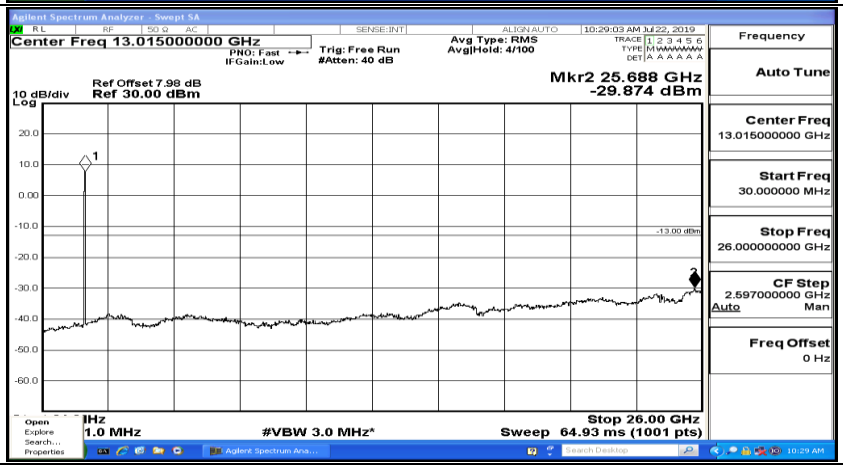




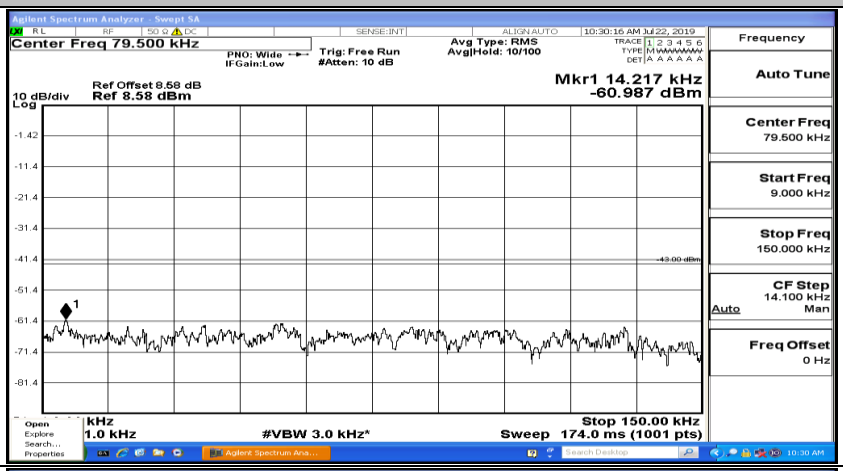
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM

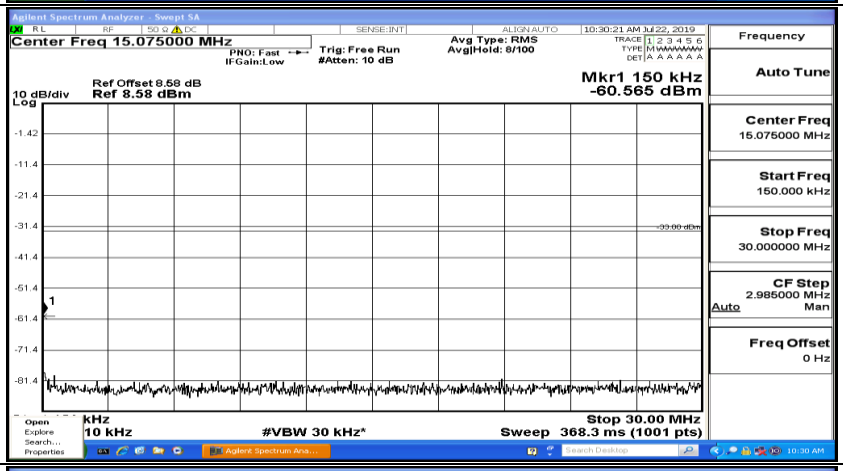


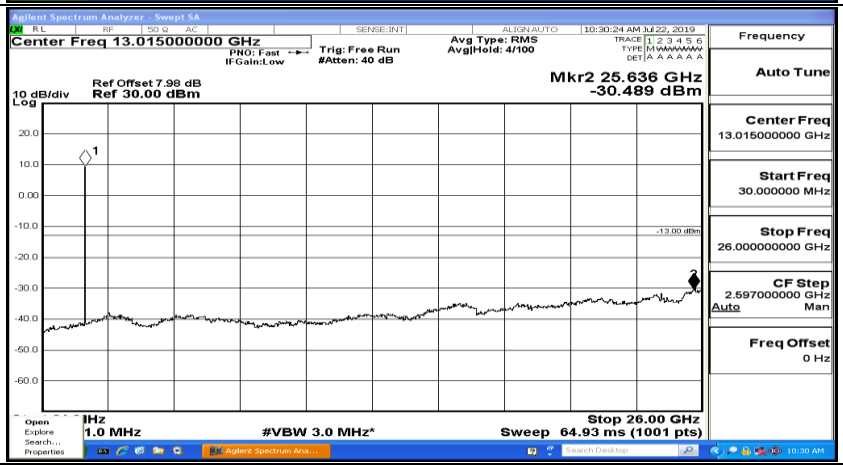




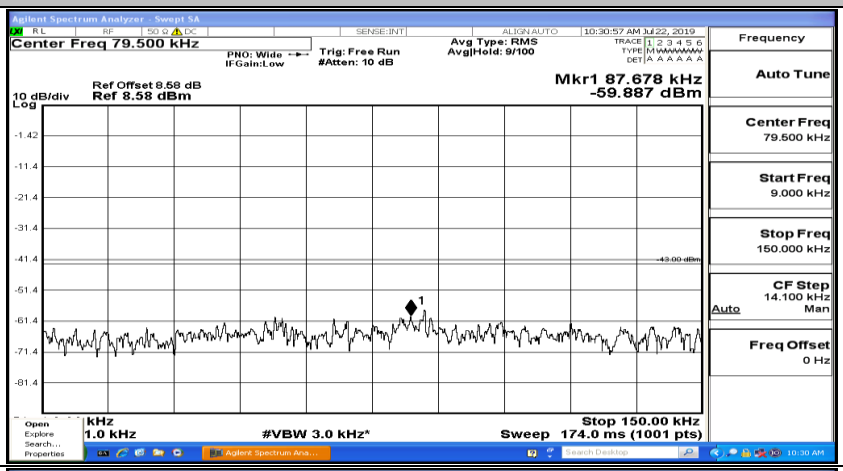
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM

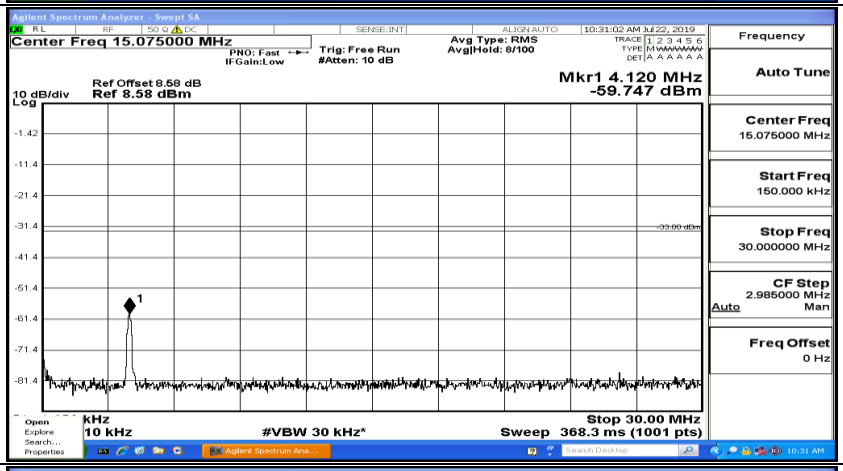


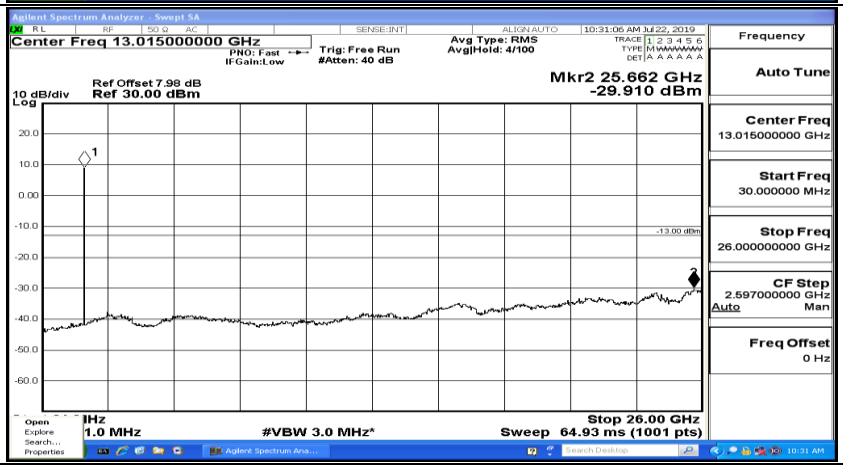




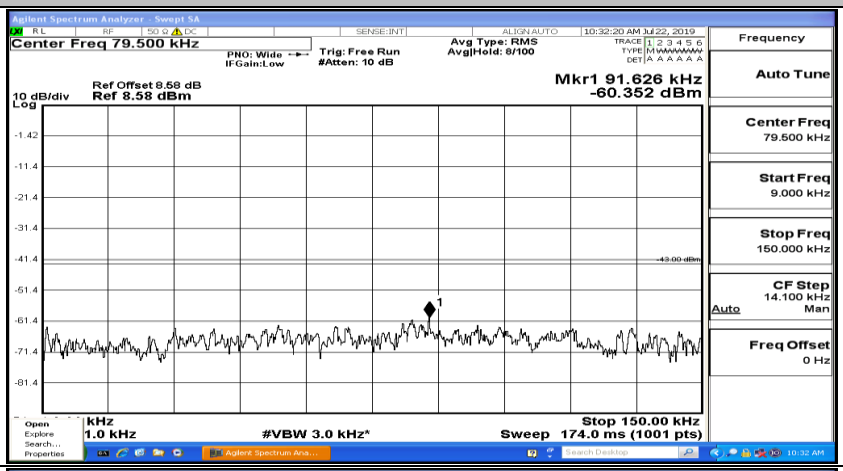
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK

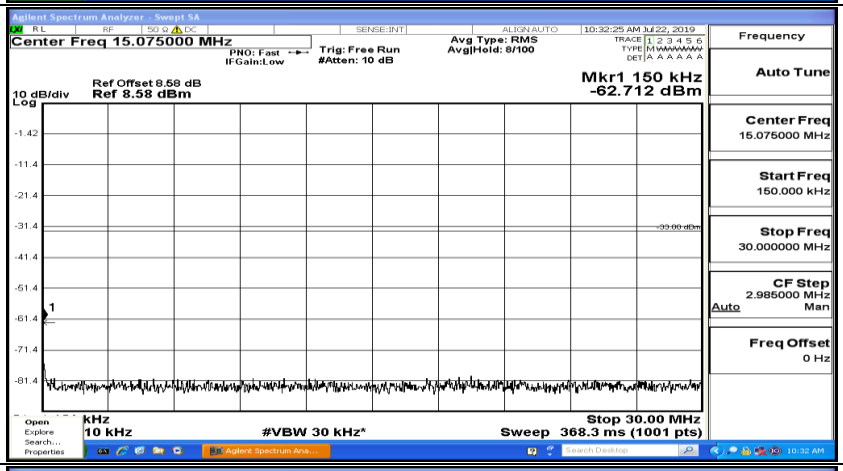


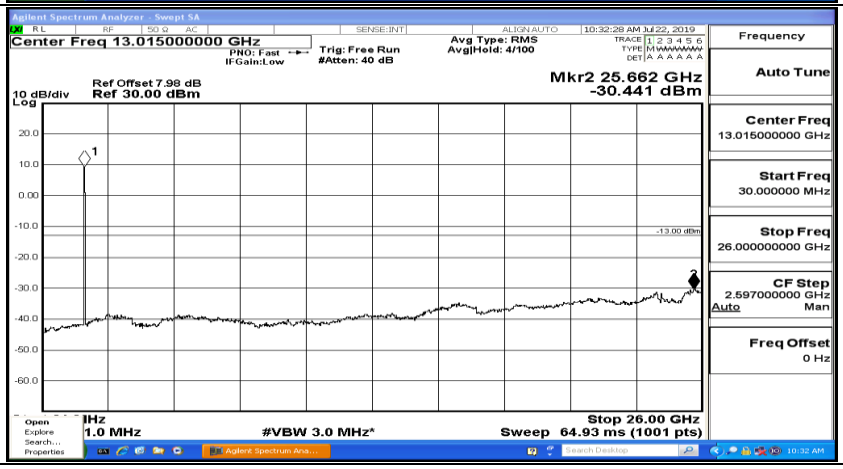




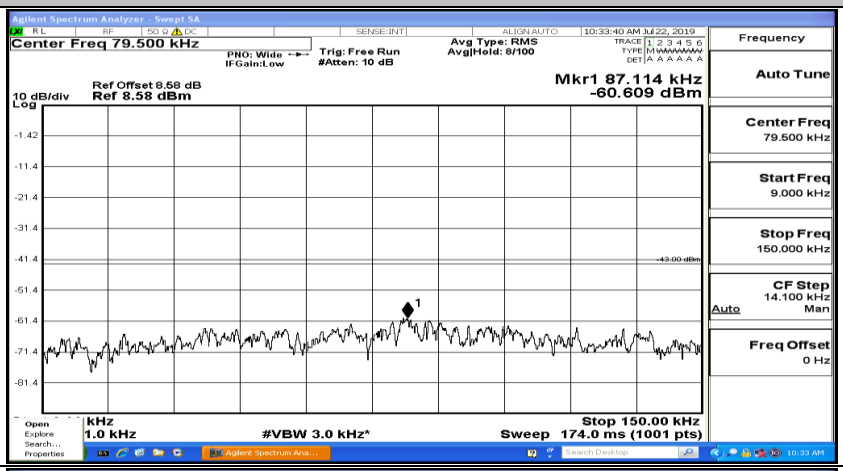
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK

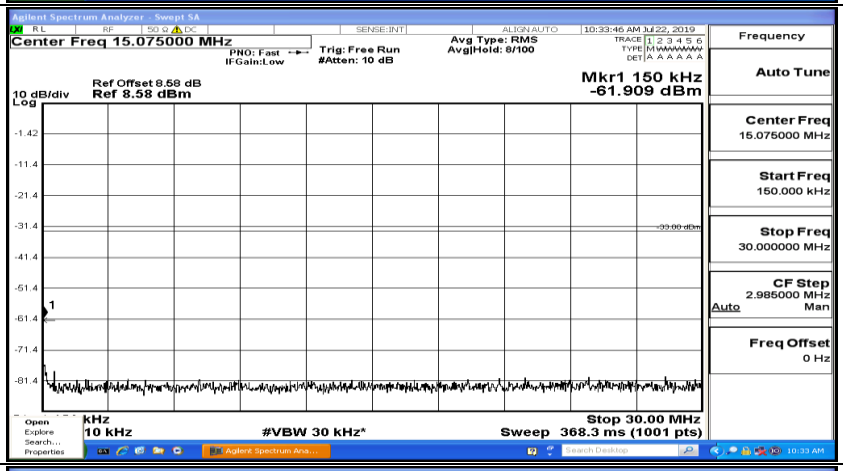


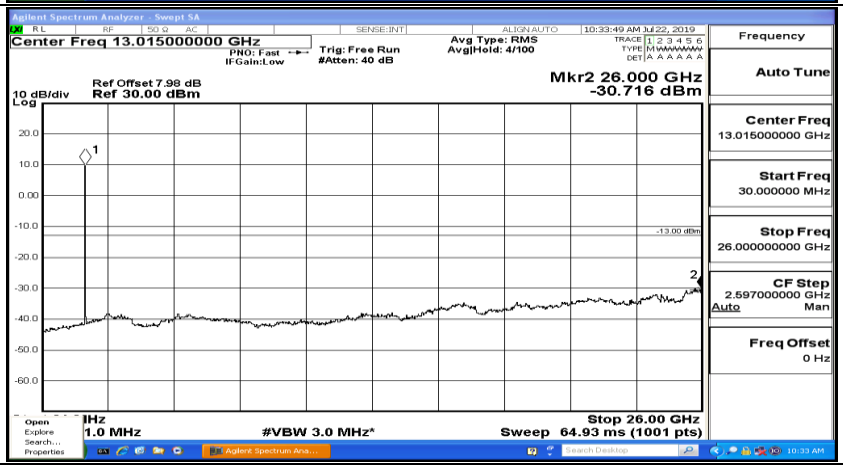




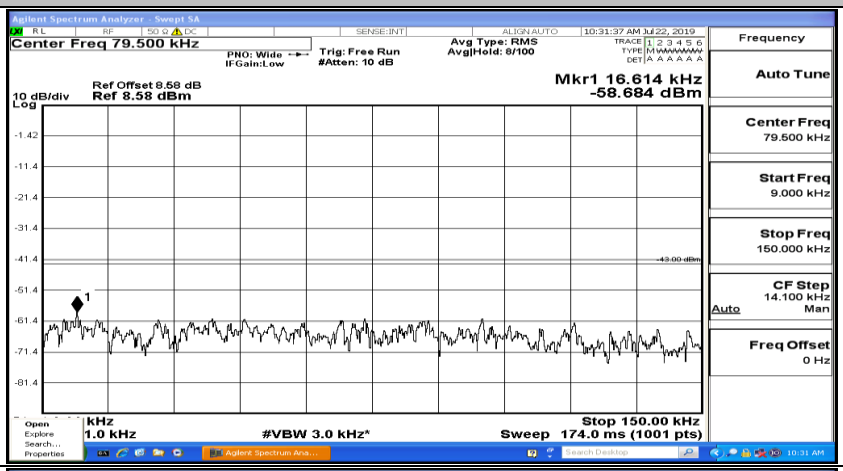
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK

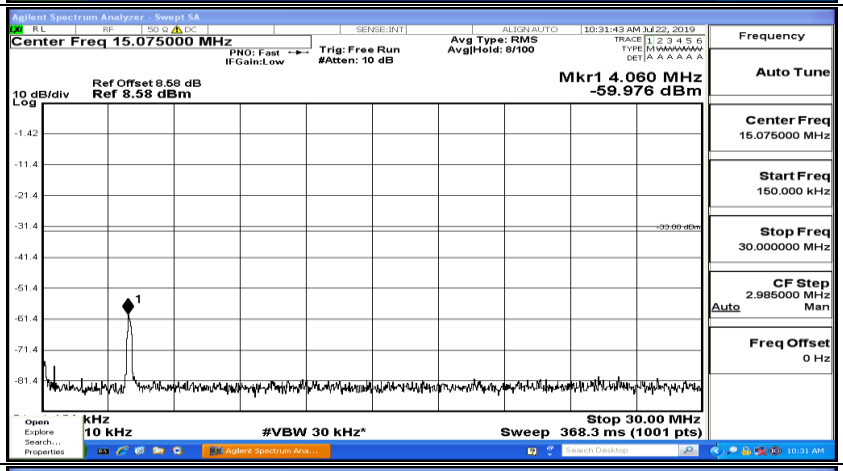


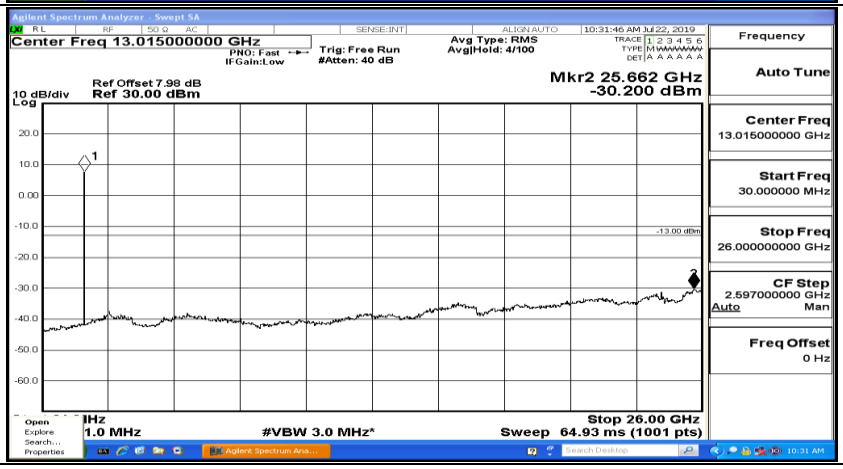




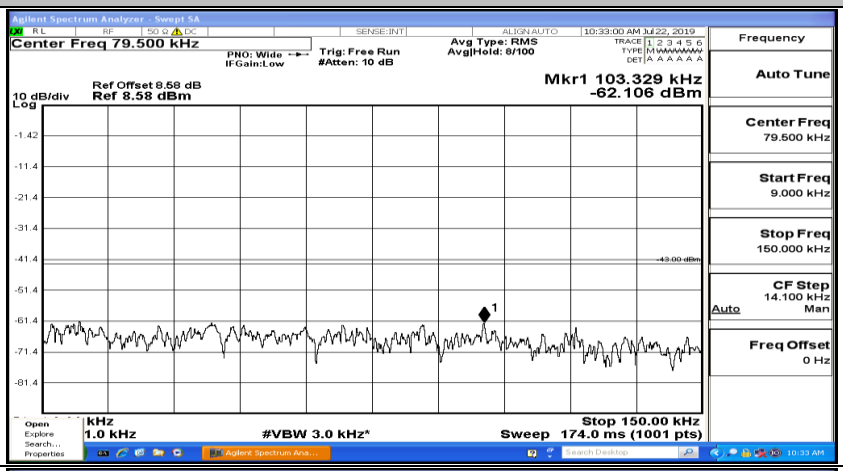
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM

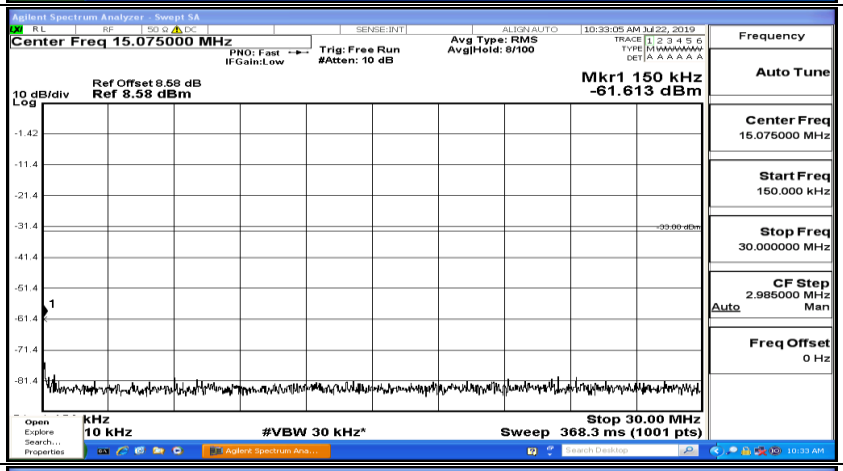


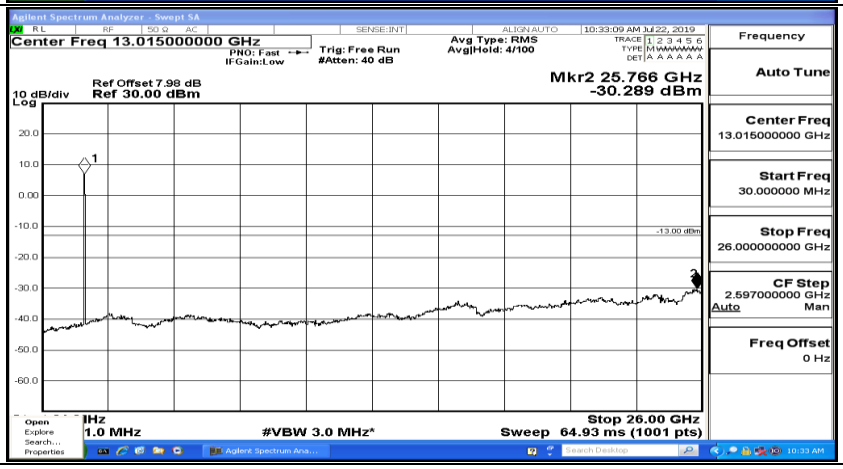




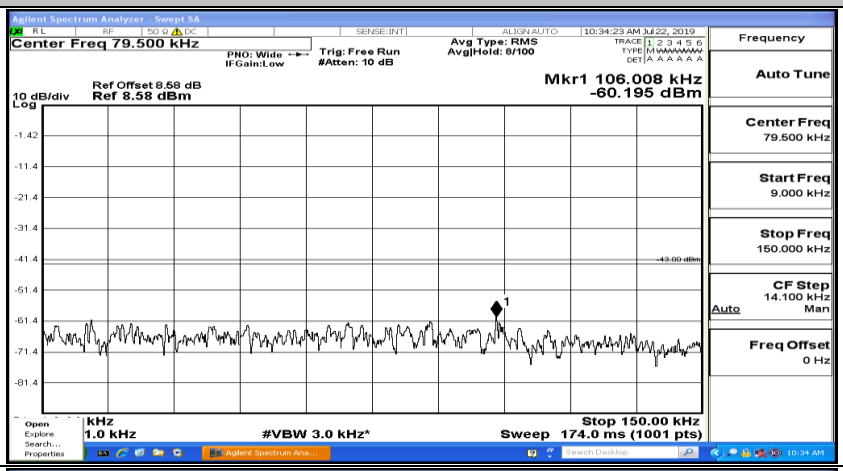
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM

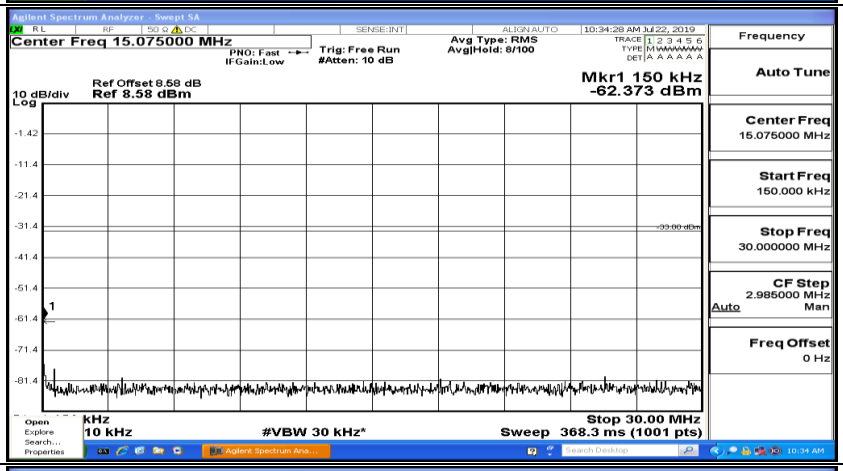


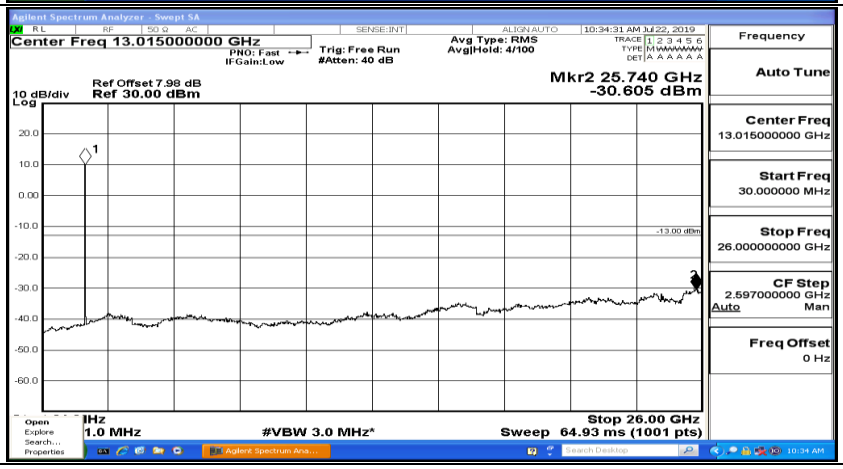




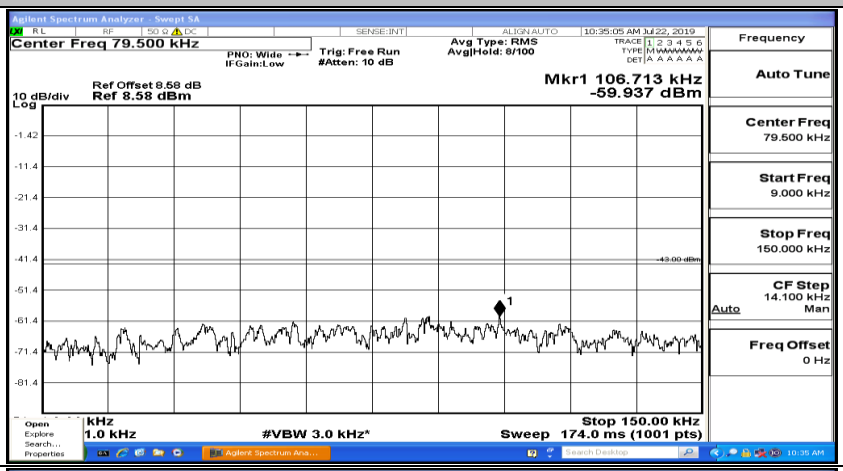
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM

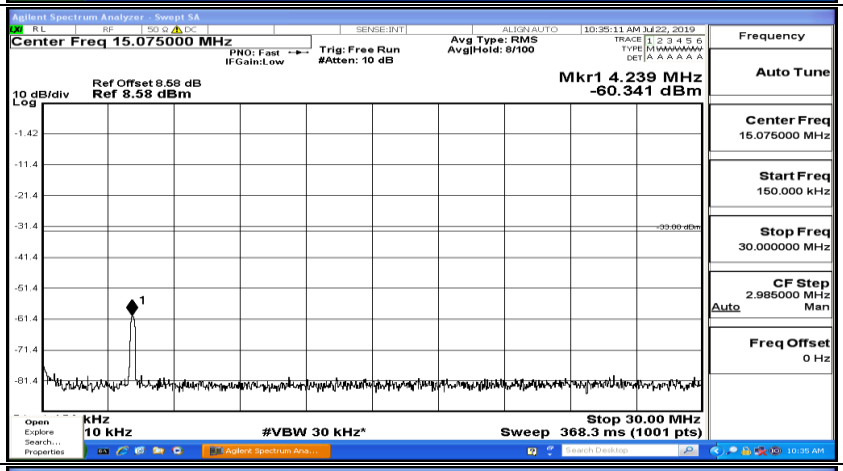


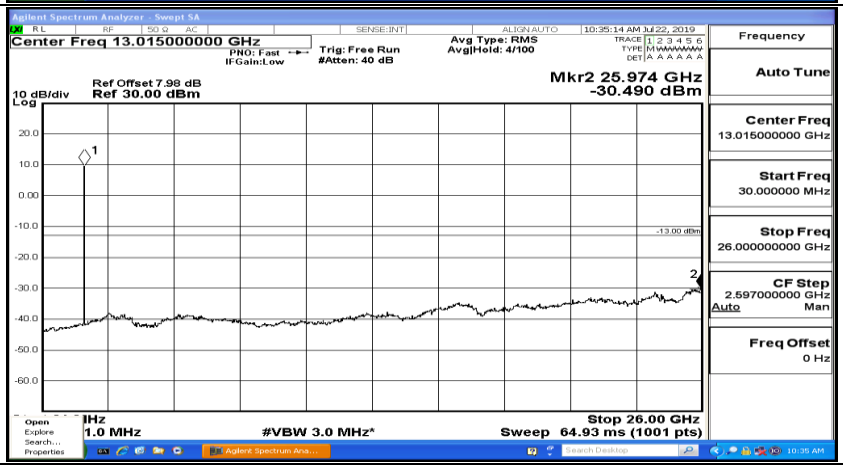




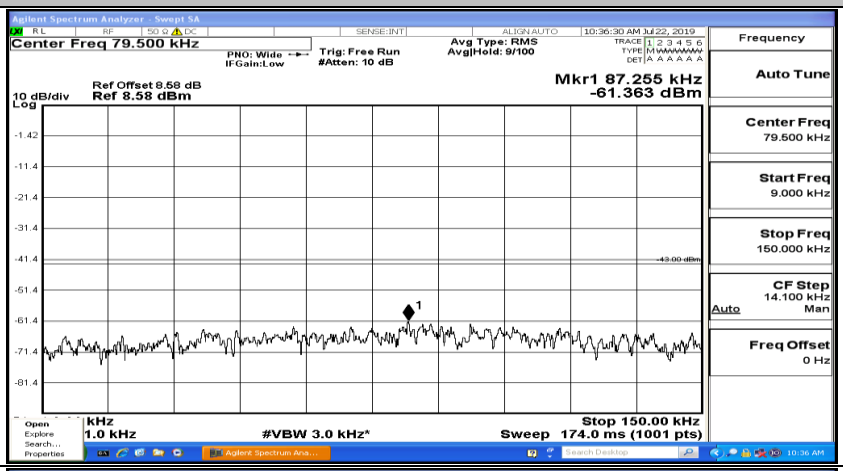
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK

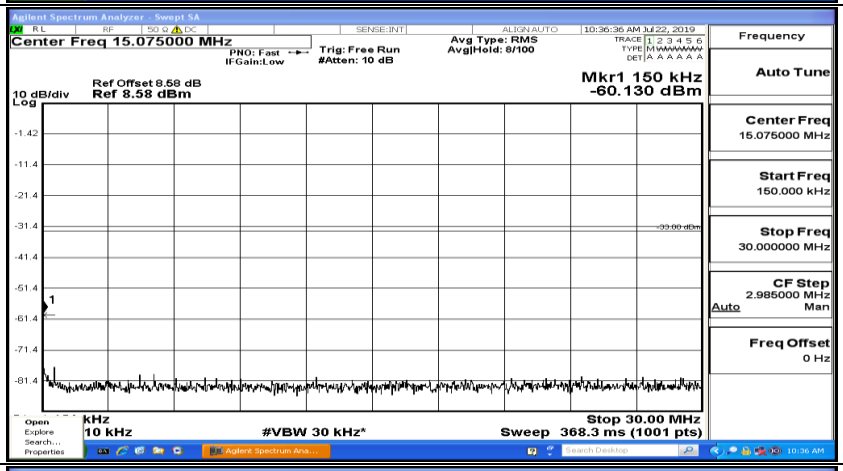


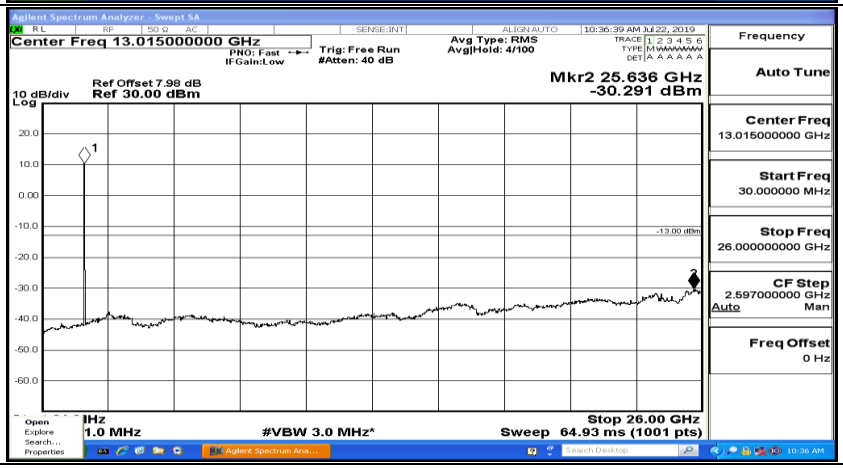
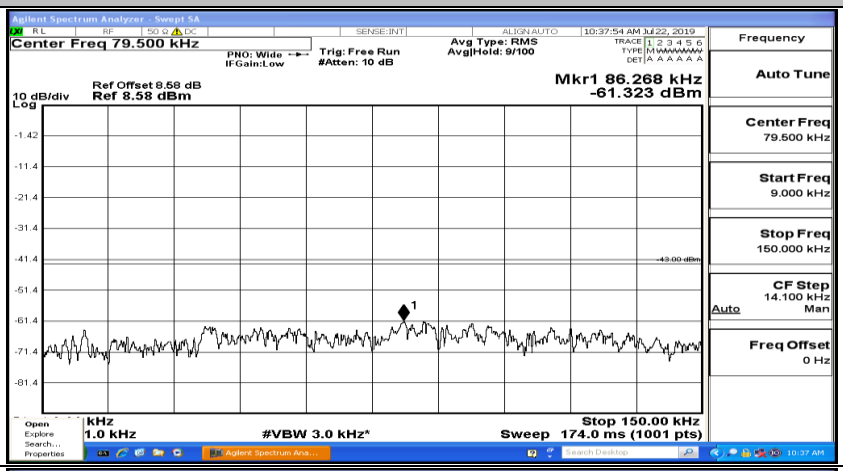
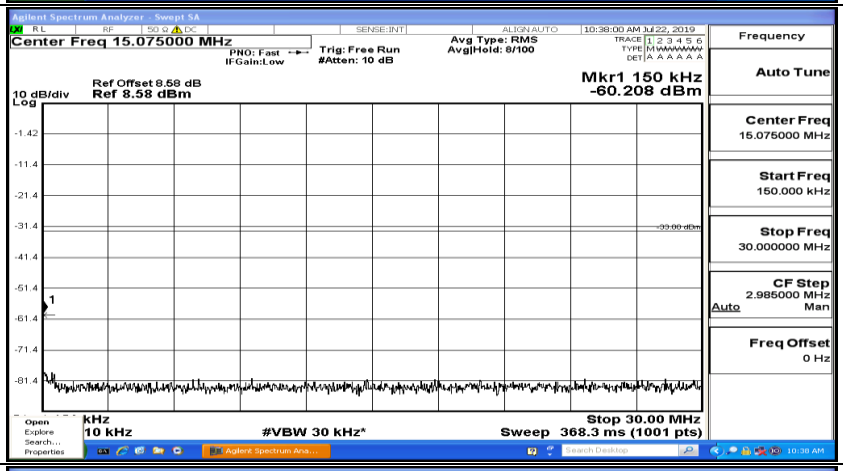
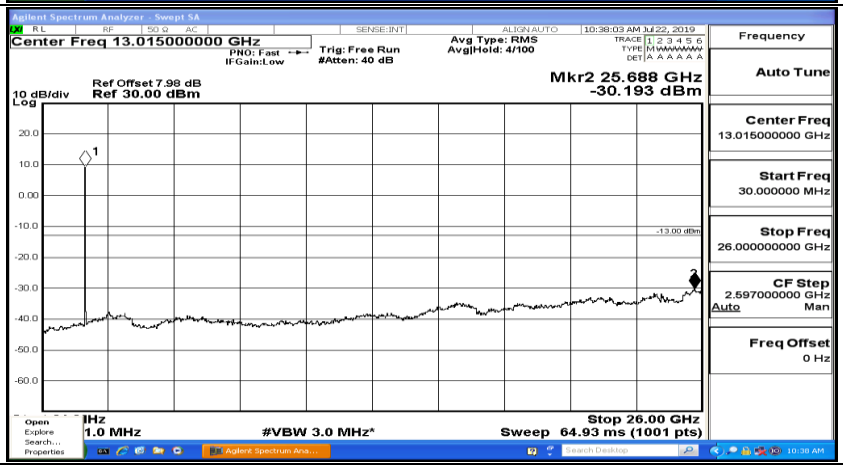




CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK







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