Appendix C: Test Data for E-UTRA Band 5

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

Environmental Conditions

Temperature:	23.6
Relative Humidity:	52.1
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	21.75	21.00	PASS
		1	3	21.87	21.15	PASS
		1	5	21.77	21.01	PASS
		3	0	21.84	21.00	PASS
		3	2	21.85	20.98	PASS
		3	3	21.81	20.96	PASS
		6	0	20.82	19.78	PASS
	MCH	1	0	21.82	21.20	PASS
		1	3	21.85	21.34	PASS
		1	5	21.83	21.17	PASS
		3	0	21.89	20.88	PASS
		3	2	21.87	20.91	PASS
		3	3	21.88	20.92	PASS
		6	0	20.79	19.80	PASS
	HCH	1	0	21.80	21.09	PASS
		1	3	21.96	21.36	PASS
		1	5	21.82	21.10	PASS
		3	0	21.91	20.97	PASS
		3	2	21.97	21.00	PASS
		3	3	21.93	21.01	PASS
		6	0	20.84	20.02	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	21.82	21.10	PASS
		1	7	21.93	21.29	PASS
		1	14	21.80	21.04	PASS
		8	0	20.82	19.91	PASS
		8	4	20.87	19.97	PASS
		8	7	20.81	19.92	PASS
		15	0	20.75	19.82	PASS
	MCH	1	0	21.79	21.09	PASS
		1	7	22.15	21.35	PASS
		1	14	21.84	21.11	PASS
		8	0	20.81	19.95	PASS
		8	4	20.92	20.06	PASS
		8	7	20.88	19.97	PASS
		15	0	20.84	19.90	PASS
	HCH	1	0	21.85	21.20	PASS
		1	7	22.30	21.43	PASS
		1	14	21.85	21.28	PASS
		8	0	20.86	19.89	PASS
		8	4	20.92	19.92	PASS
		8	7	20.82	19.87	PASS
		15	0	20.83	19.89	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	21.72	21.11	PASS
		1	12	22.08	21.41	PASS
		1	24	21.66	21.08	PASS
		12	0	20.71	19.93	PASS
		12	6	20.83	20.04	PASS
		12	13	20.73	19.95	PASS
		25	0	20.77	19.81	PASS
	MCH	1	0	21.74	21.16	PASS
		1	12	**22.10**	**21.67**	PASS
		1	24	21.76	21.15	PASS
		12	0	20.81	20.03	PASS
		12	6	20.88	20.16	PASS
		12	13	20.89	20.11	PASS
		25	0	20.93	20.01	PASS
	HCH	1	0	21.76	20.81	PASS
		1	12	21.97	21.16	PASS
		1	24	21.77	20.82	PASS
		12	0	20.86	20.00	PASS
		12	6	20.90	20.02	PASS
		12	13	20.71	19.88	PASS
		25	0	20.86	19.94	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	21.79	21.13	PASS
		1	24	22.04	21.33	PASS
		1	49	21.77	21.10	PASS
		25	0	20.93	19.96	PASS
		25	12	20.84	19.95	PASS
		25	25	20.79	19.87	PASS
		50	0	20.84	19.85	PASS
	MCH	1	0	21.76	21.09	PASS
		1	24	22.02	21.34	PASS
		1	49	21.85	21.10	PASS
		25	0	20.87	19.94	PASS
		25	12	20.91	19.94	PASS
		25	25	21.00	20.06	PASS
		50	0	20.96	19.99	PASS
	HCH	1	0	21.80	21.19	PASS
		1	24	22.02	21.45	PASS
		1	49	21.85	21.25	PASS
		25	0	20.86	19.97	PASS
		25	12	20.89	19.95	PASS
		25	25	20.77	19.84	PASS
		50	0	20.85	19.94	PASS

C.2 Peak-to-Average Ratio

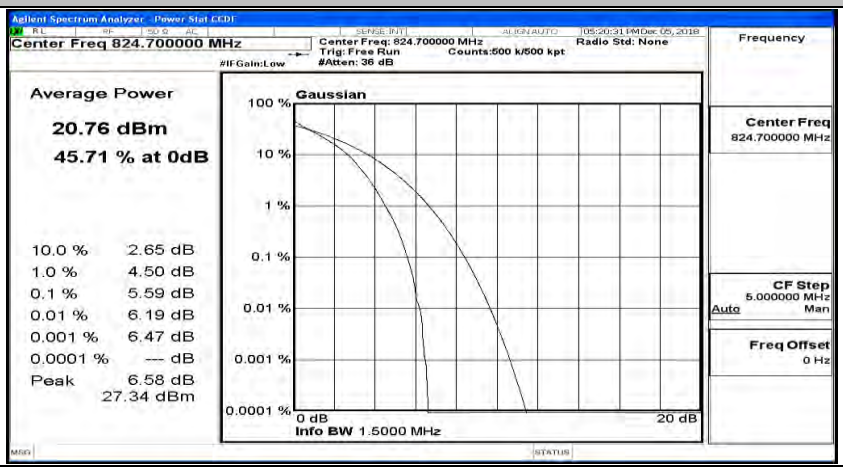
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.59	<13	PASS
	MCH	5.72	<13	PASS
	HCH	5.51	<13	PASS
16QAM	LCH	6.51	<13	PASS
	MCH	6.7	<13	PASS
	HCH	6.5	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.56	<13	PASS
	MCH	5.72	<13	PASS
	HCH	5.65	<13	PASS
16QAM	LCH	6.45	<13	PASS
	MCH	6.67	<13	PASS
	HCH	6.43	<13	PASS

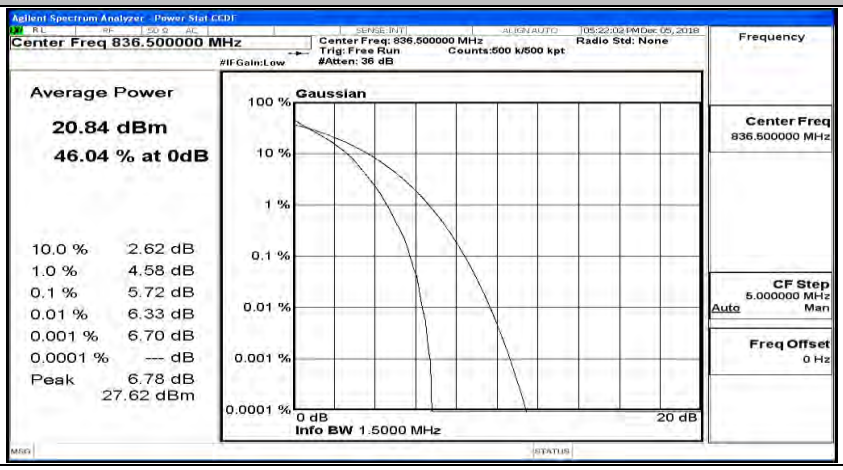
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.56	<13	PASS
	MCH	5.75	<13	PASS
	HCH	5.63	<13	PASS
16QAM	LCH	6.39	<13	PASS
	MCH	6.54	<13	PASS
	HCH	6.46	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.58	<13	PASS
	MCH	5.78	<13	PASS
	HCH	5.66	<13	PASS
16QAM	LCH	6.36	<13	PASS
	MCH	6.45	<13	PASS
	HCH	6.37	<13	PASS

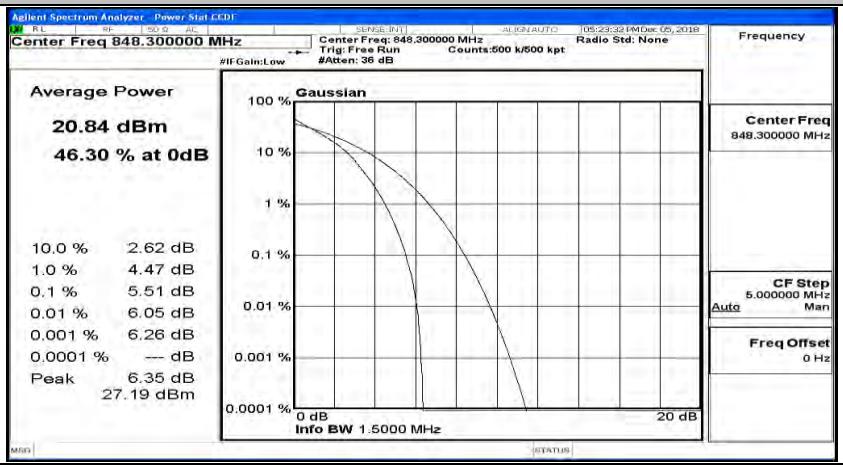
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



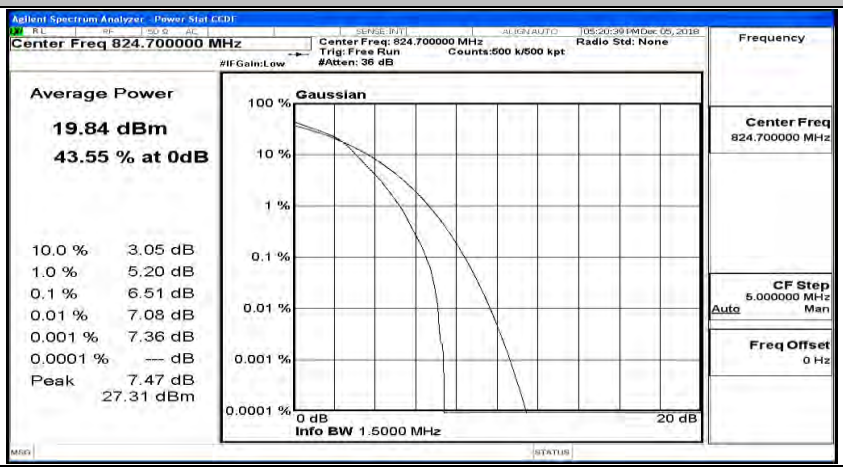
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



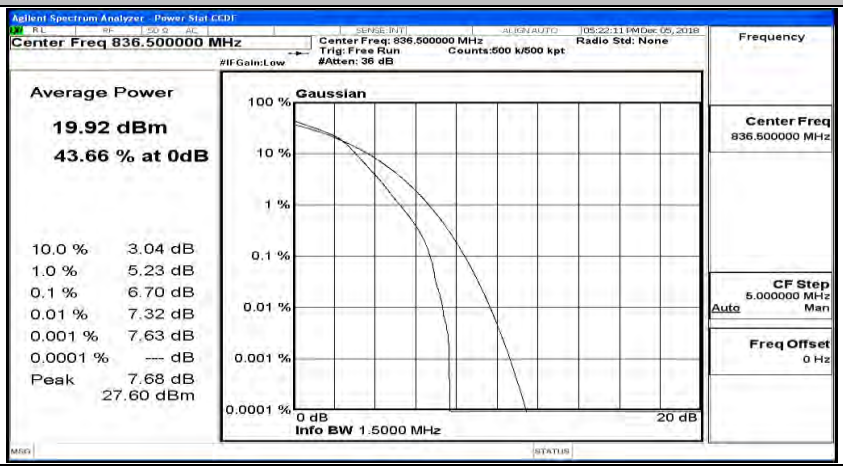
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



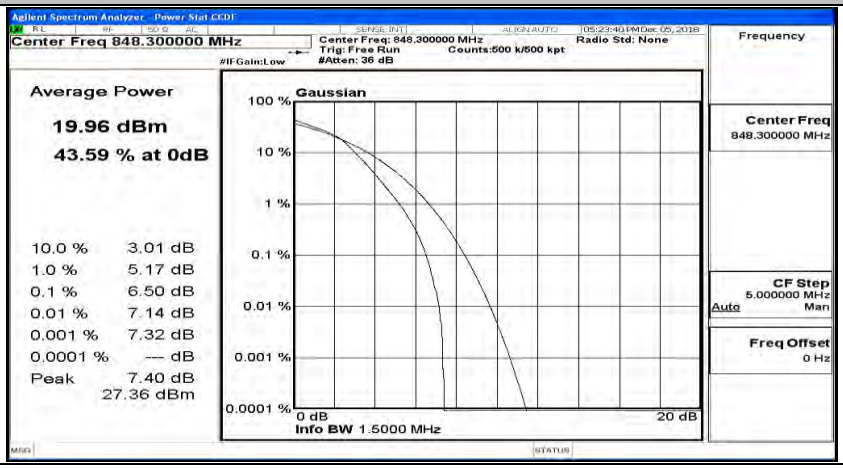
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



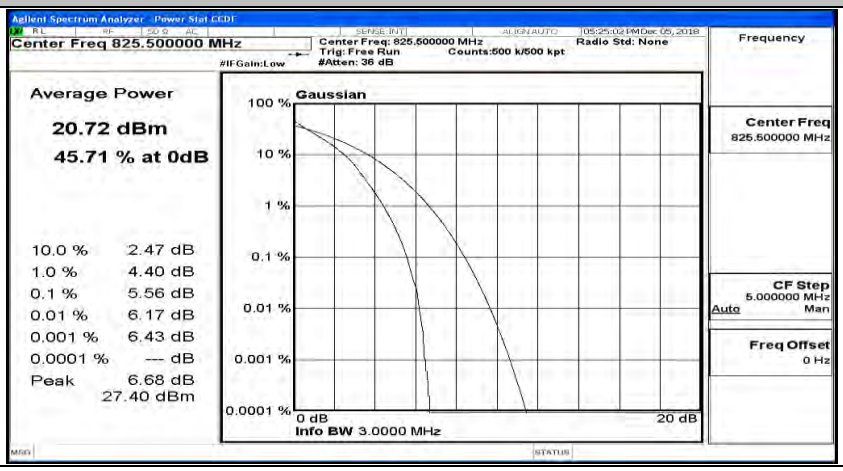
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



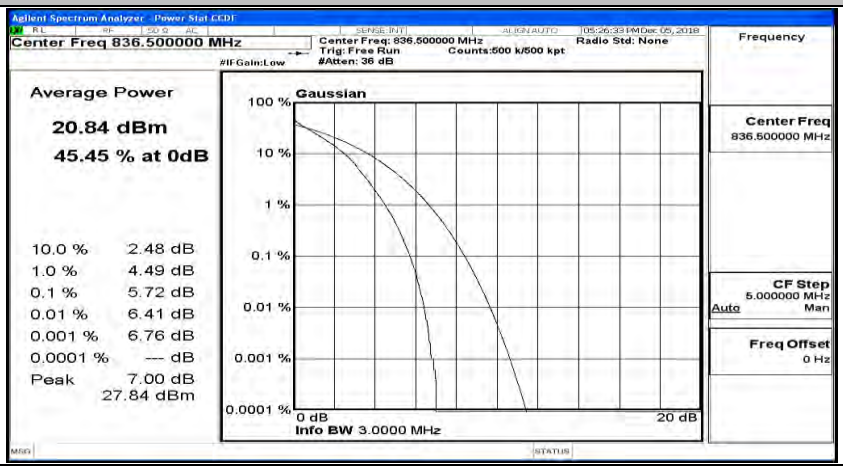
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



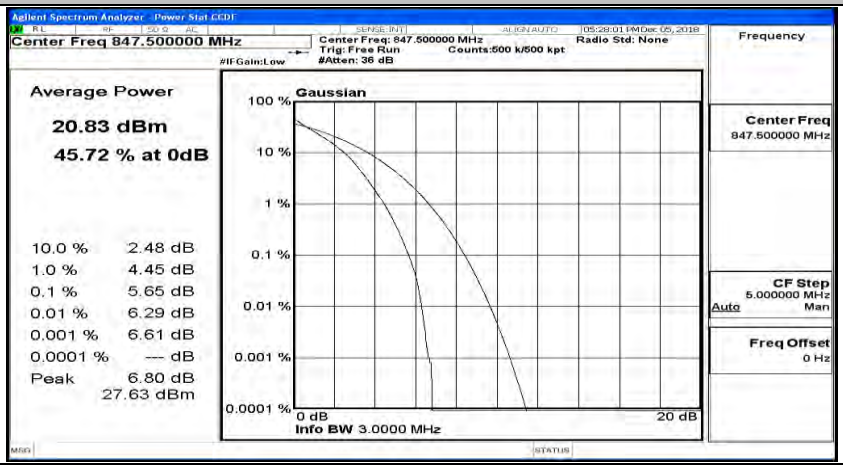
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



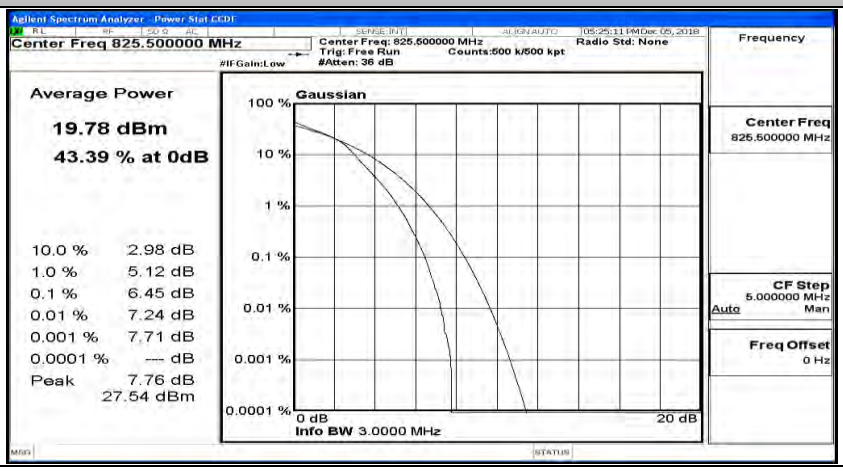
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



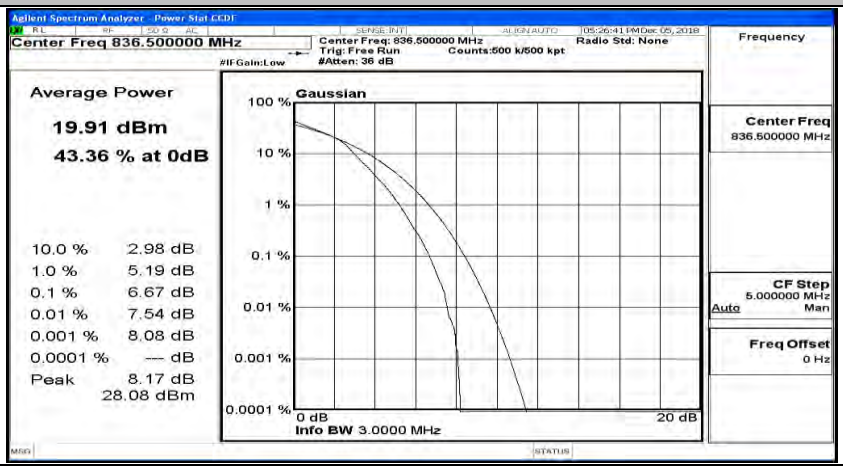
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



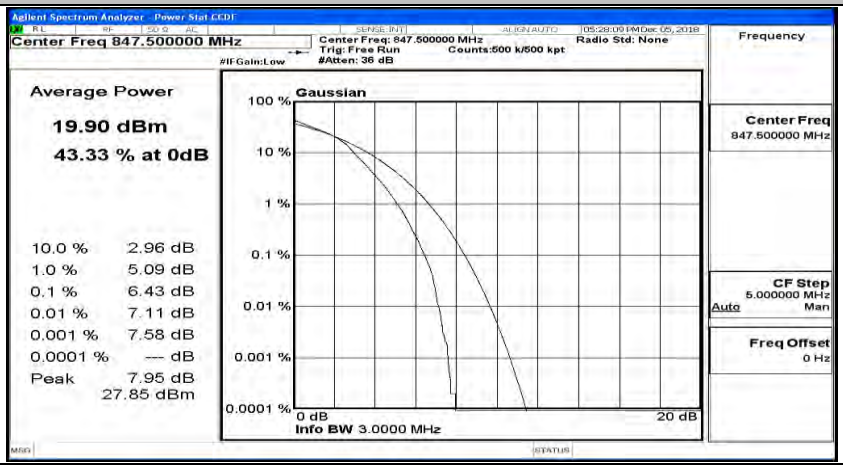
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



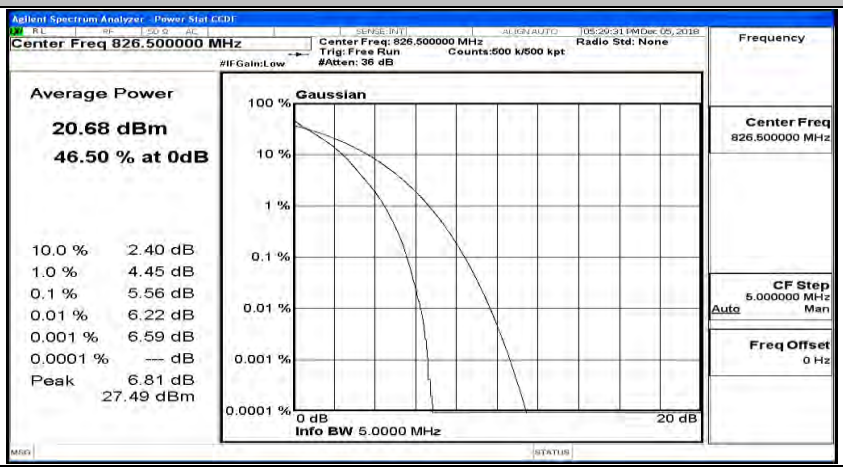
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



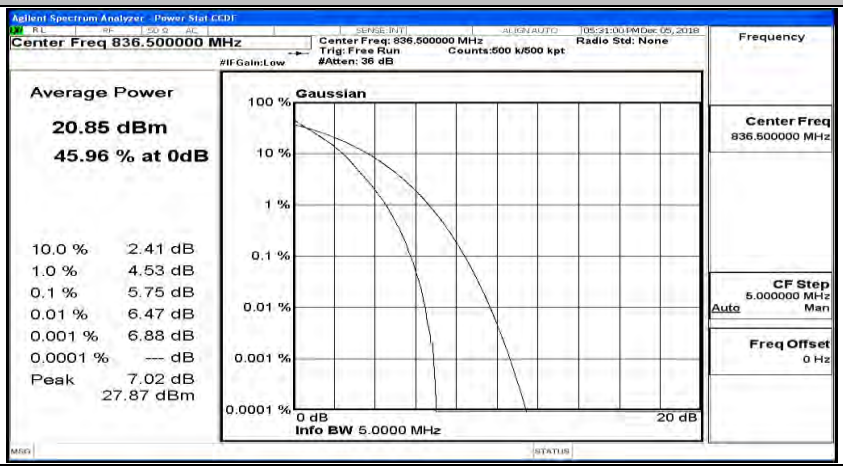
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



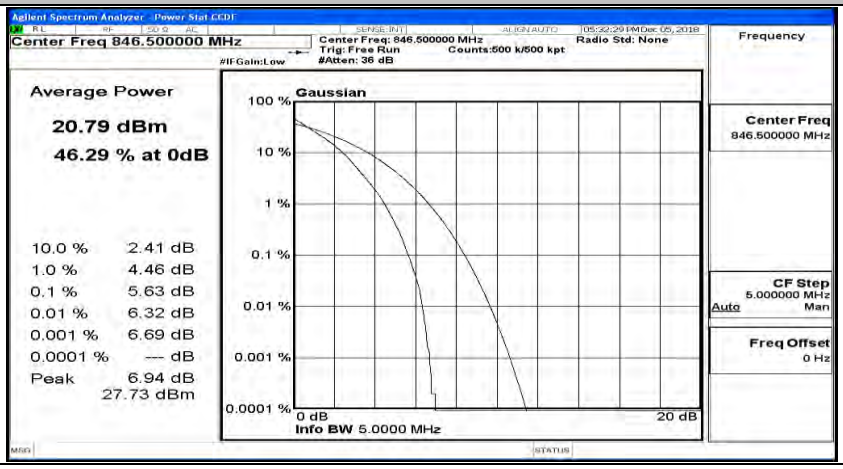
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



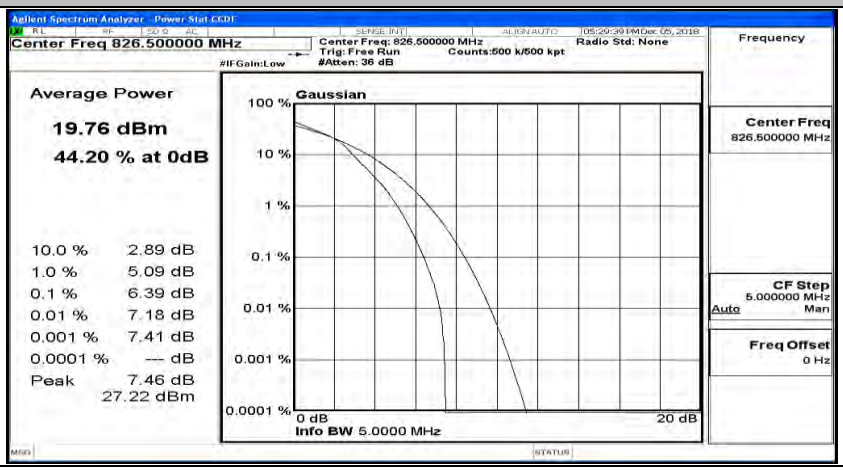
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



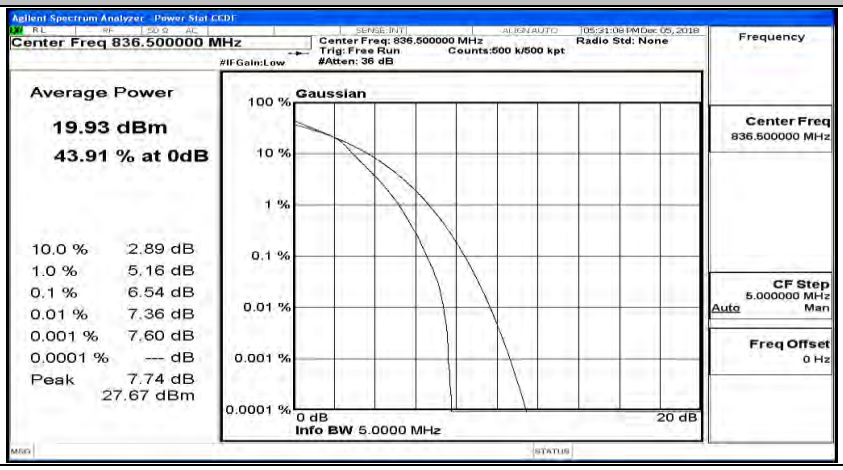
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



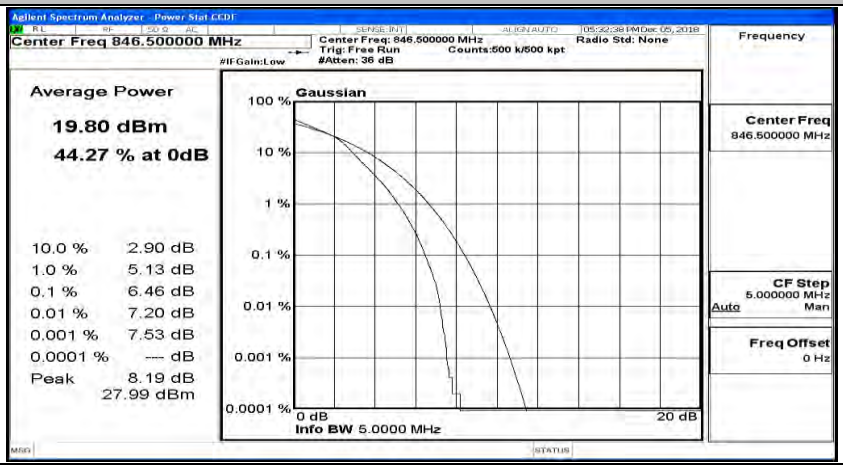
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



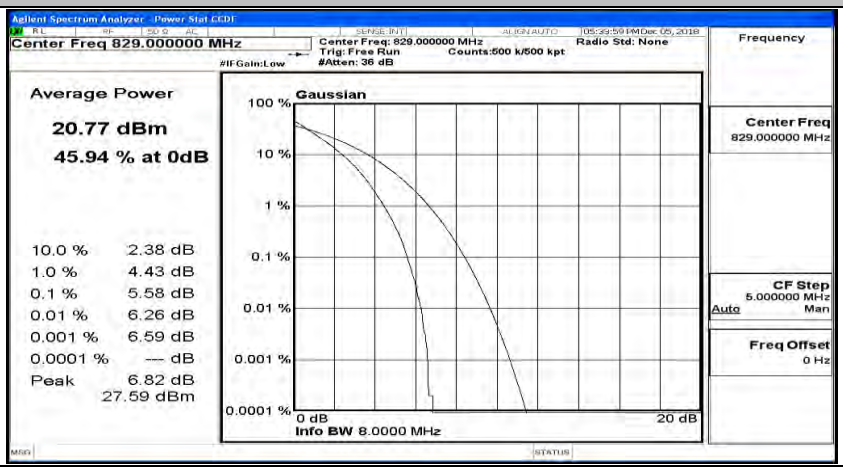
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



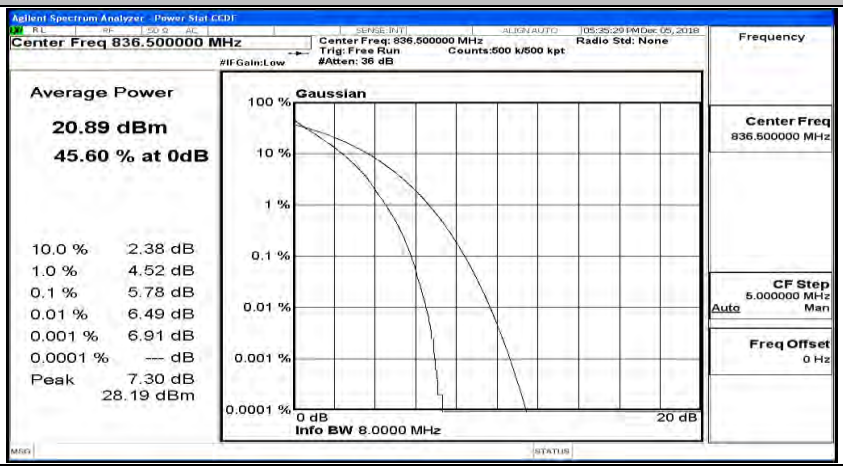
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



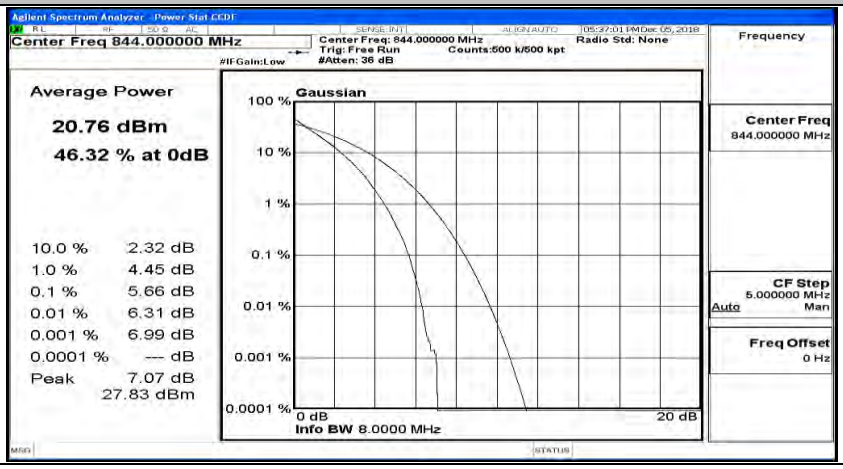
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



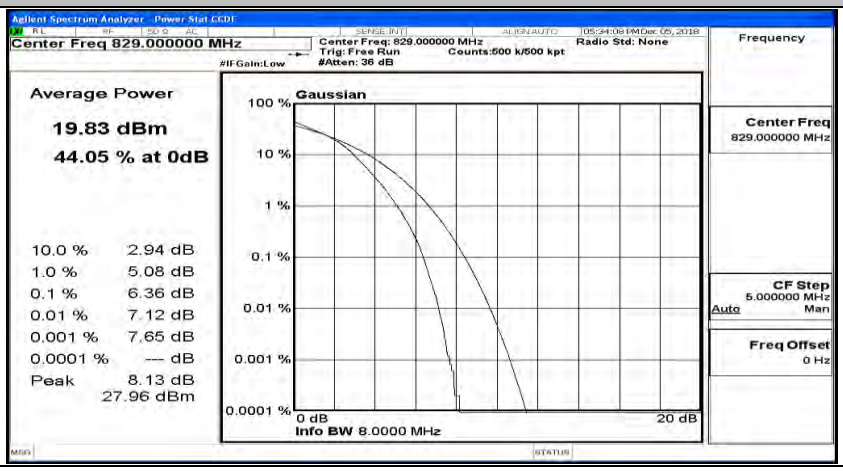
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



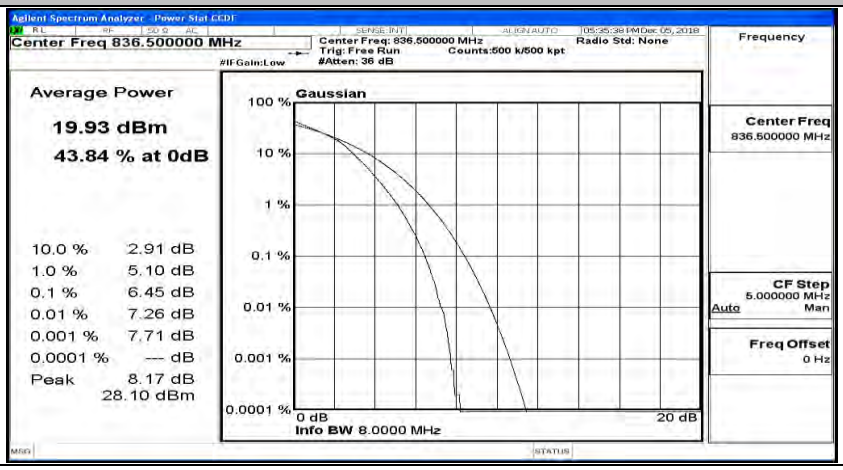
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



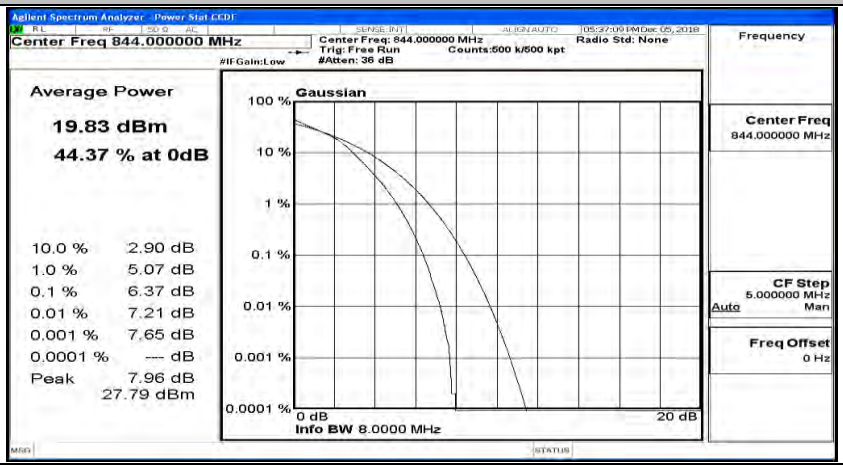
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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



C.3 26dB Bandwidth and Occupied Bandwidth

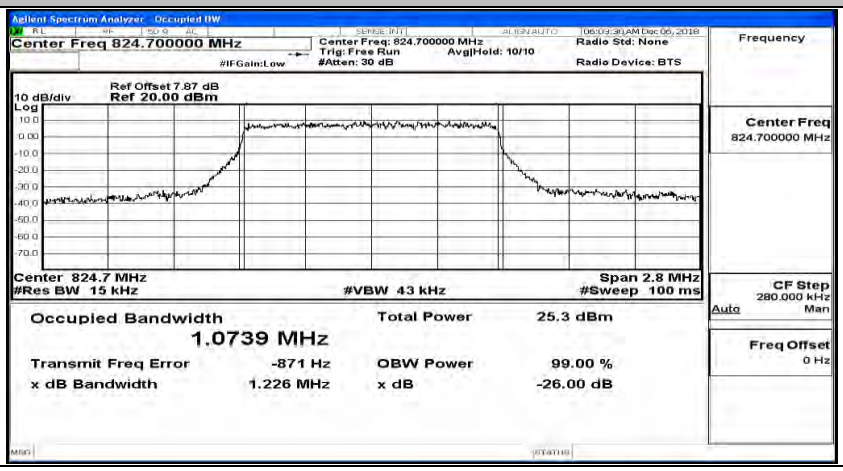
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0739	1.226	PASS
	MCH	1.0726	1.224	PASS
	HCH	1.0780	1.233	PASS
16QAM	LCH	1.0787	1.216	PASS
	MCH	1.0788	1.220	PASS
	HCH	1.0742	1.228	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6770	2.823	PASS
	MCH	2.6787	2.818	PASS
	HCH	2.6791	2.836	PASS
16QAM	LCH	2.6791	2.830	PASS
	MCH	2.6753	2.830	PASS
	HCH	2.6917	2.839	PASS

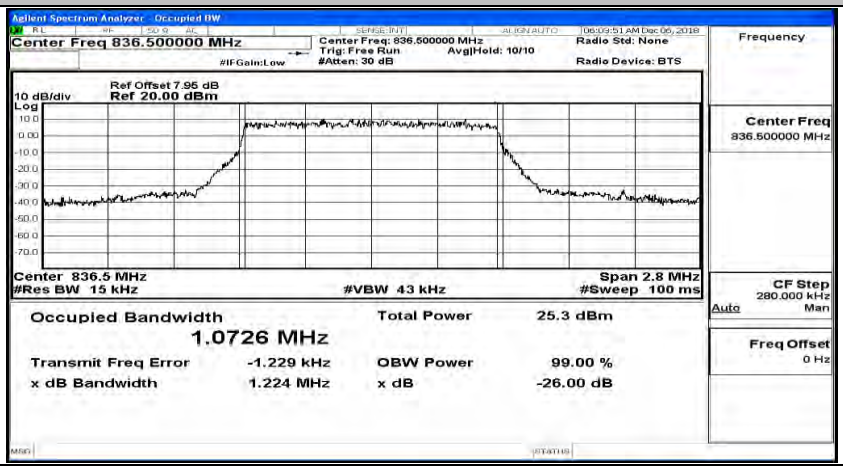
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4738	4.756	PASS
	MCH	4.4844	4.862	PASS
	HCH	4.4681	4.841	PASS
16QAM	LCH	4.4762	4.815	PASS
	MCH	4.4798	4.816	PASS
	HCH	4.4783	4.877	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9288	9.489	PASS
	MCH	8.9620	9.498	PASS
	HCH	8.9221	9.457	PASS
16QAM	LCH	8.9238	9.479	PASS
	MCH	8.9604	9.559	PASS
	HCH	8.9394	9.431	PASS

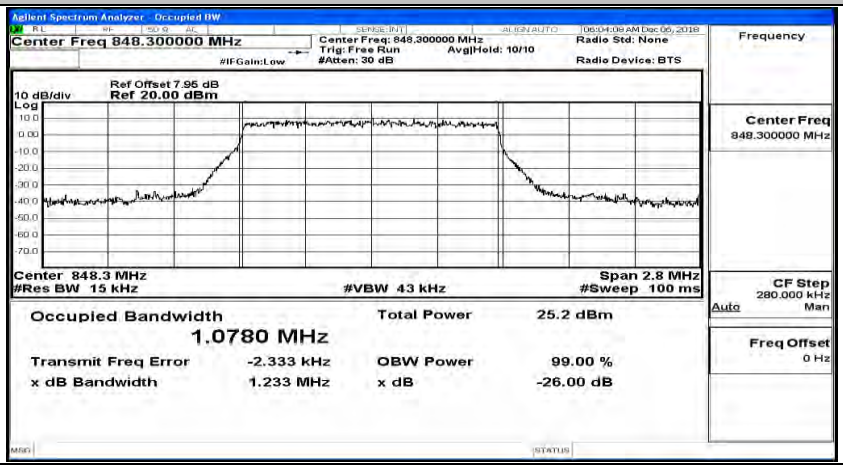
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



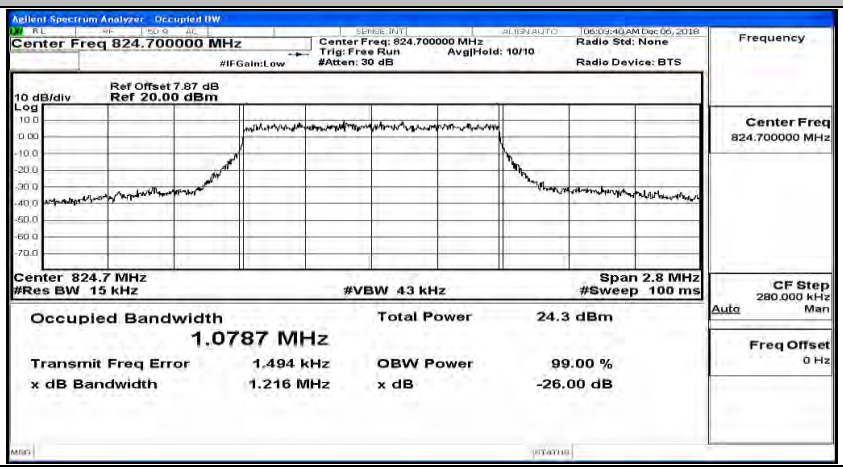
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



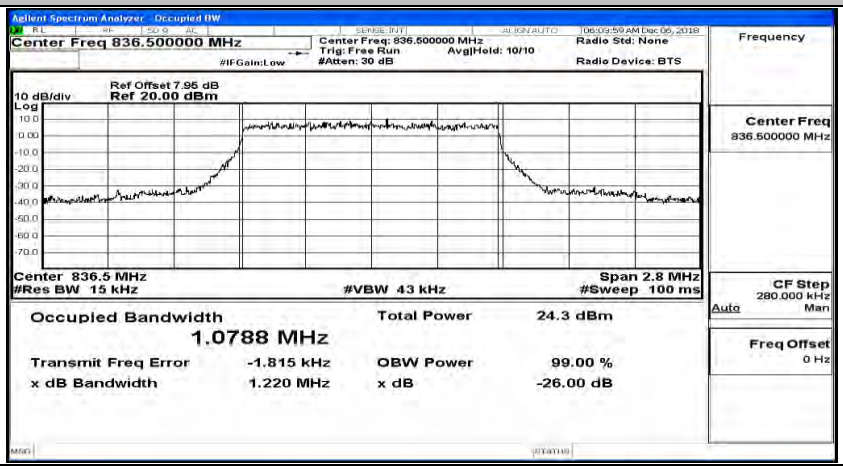
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



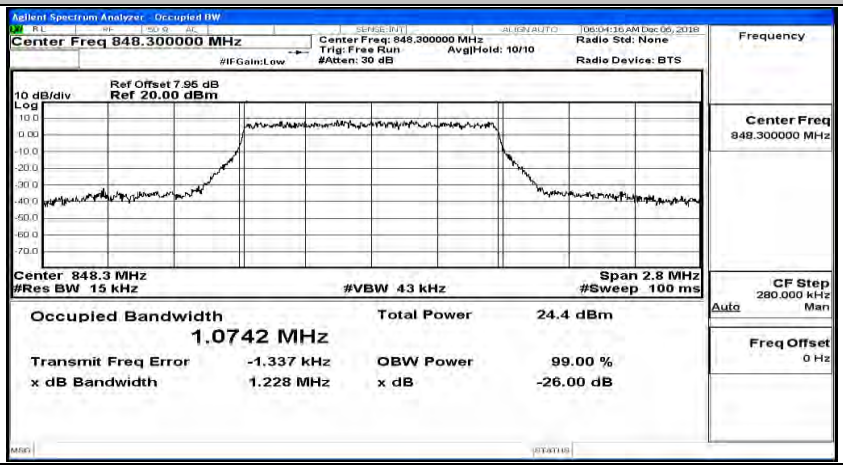
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



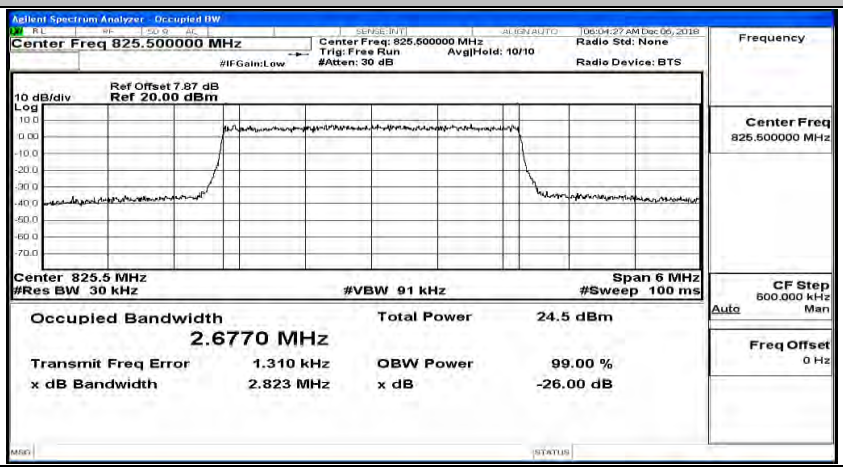
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



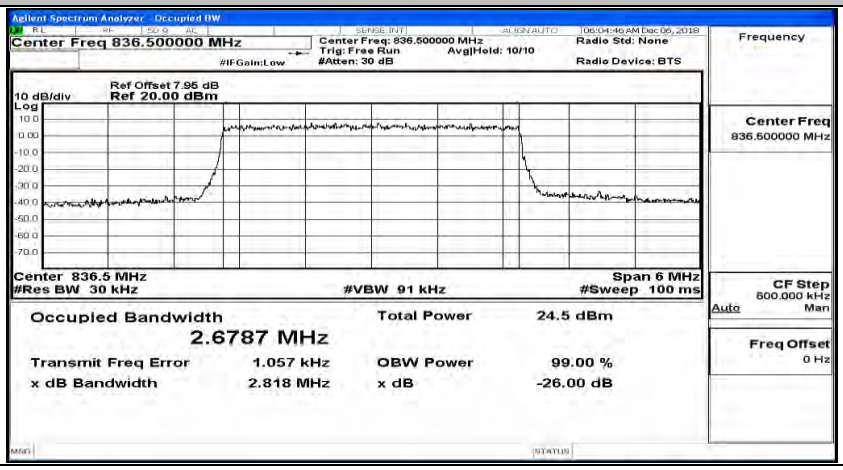
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



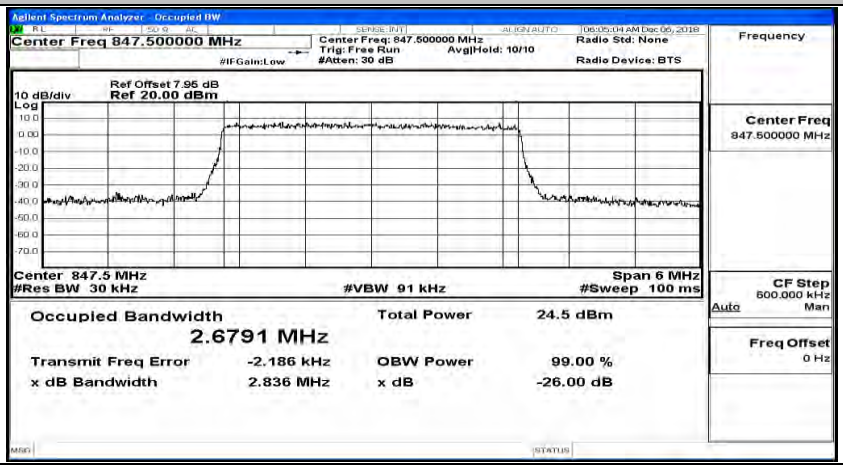
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



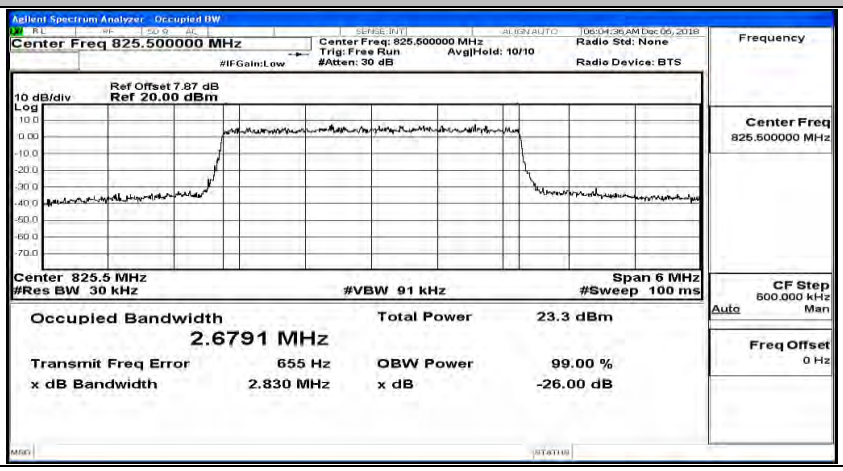
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



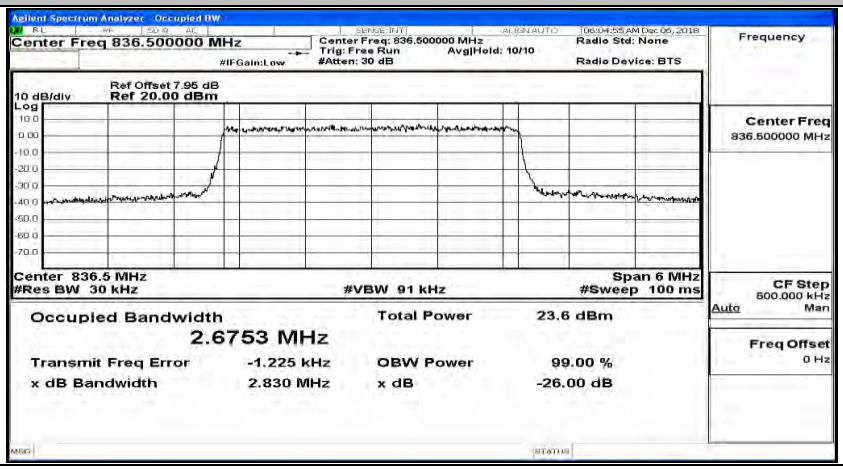
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



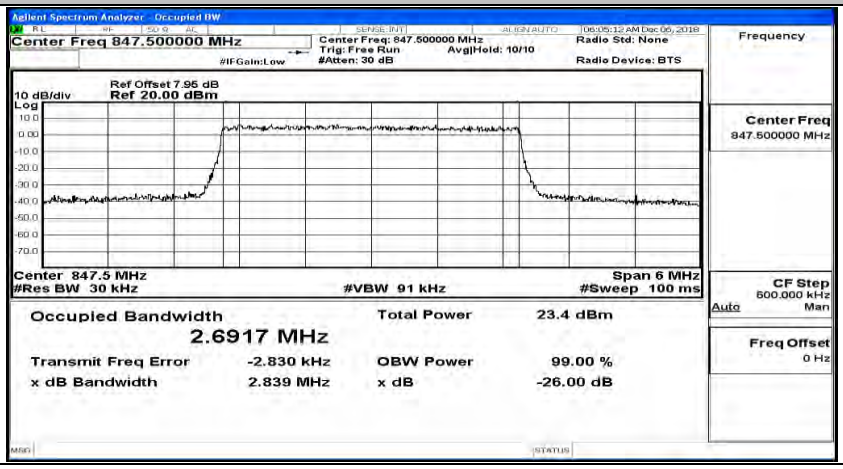
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



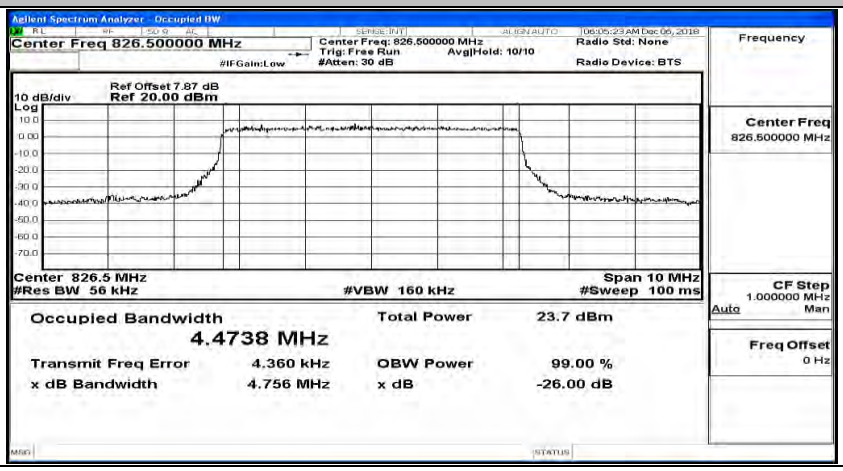
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



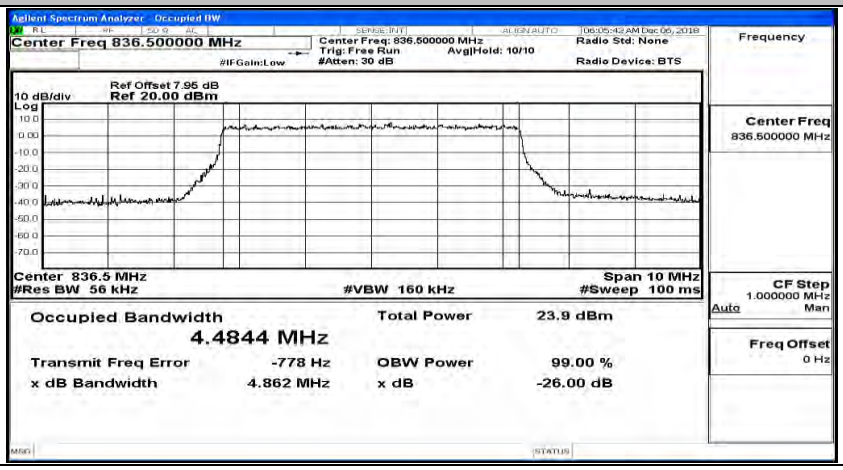
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



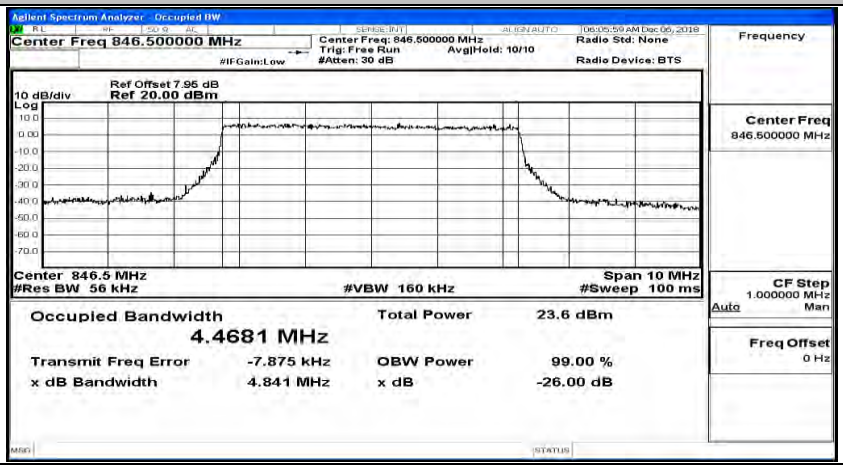
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



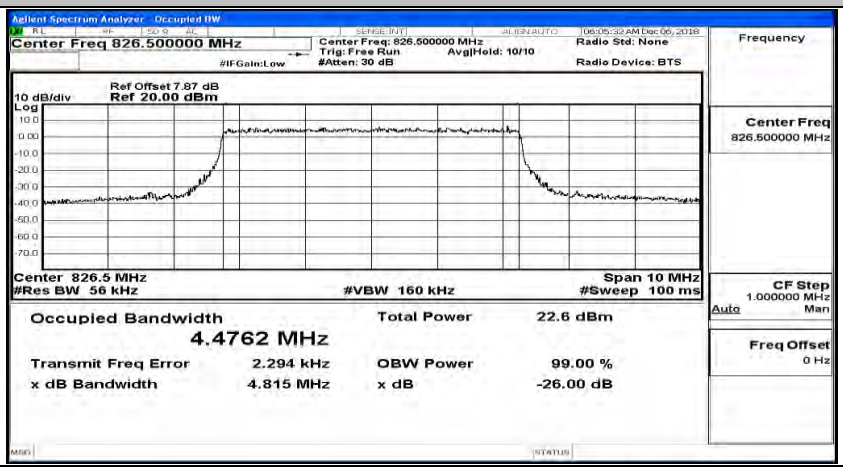
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



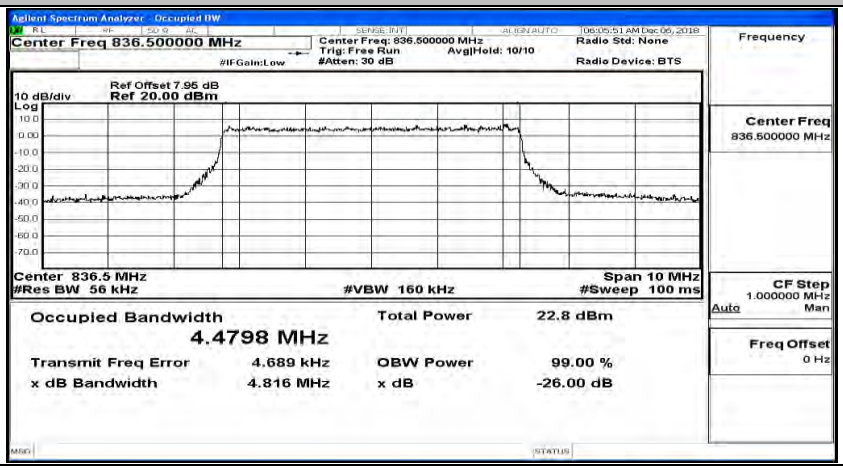
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



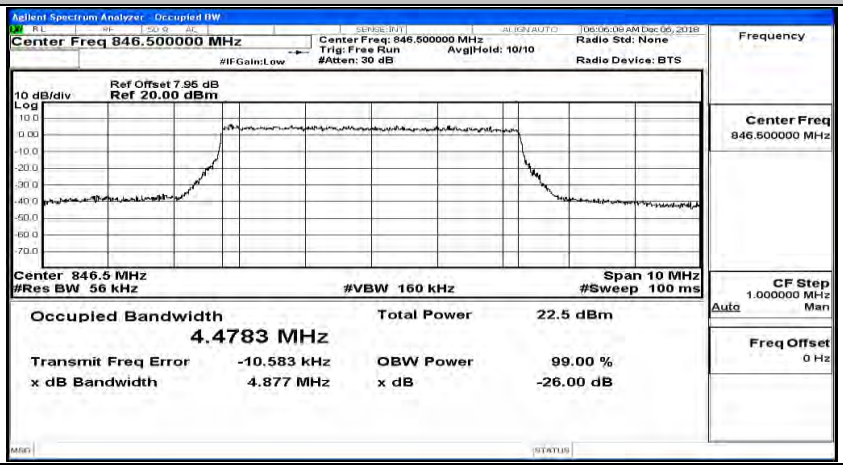
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



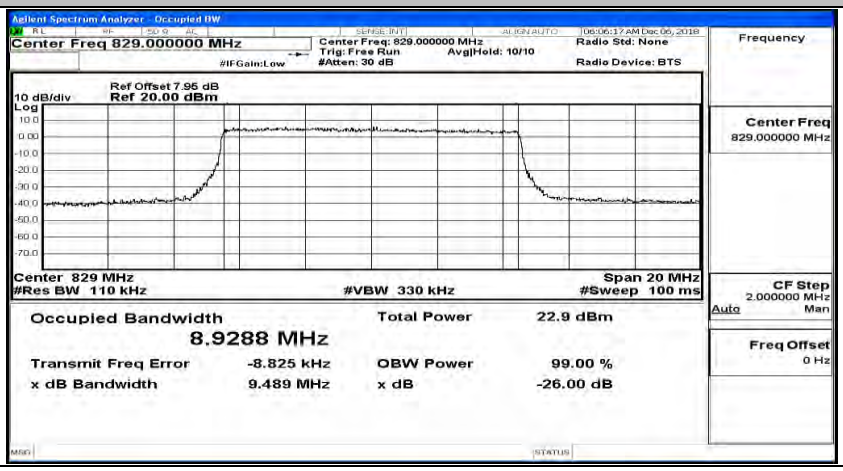
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



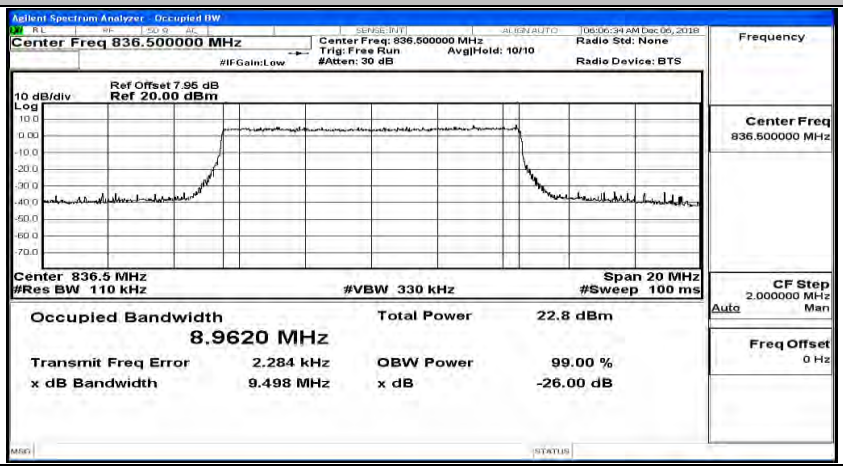
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



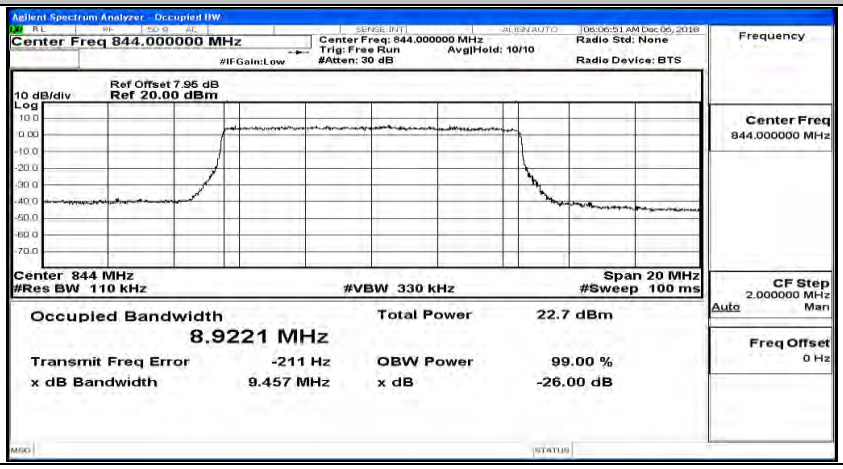
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



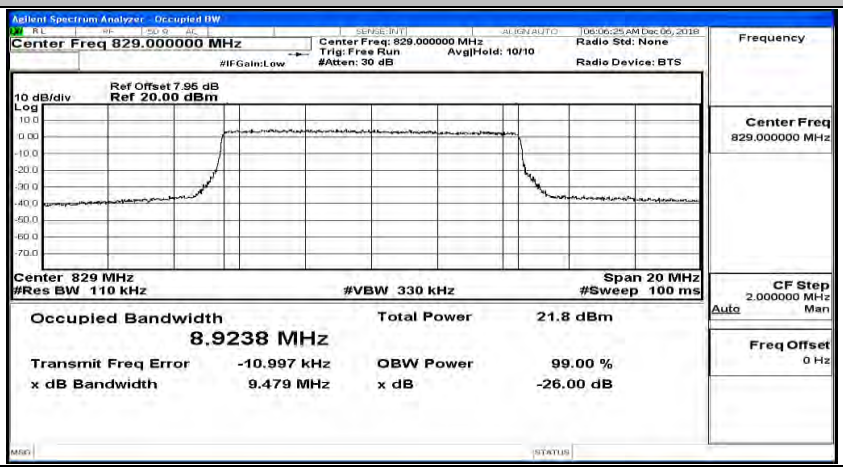
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



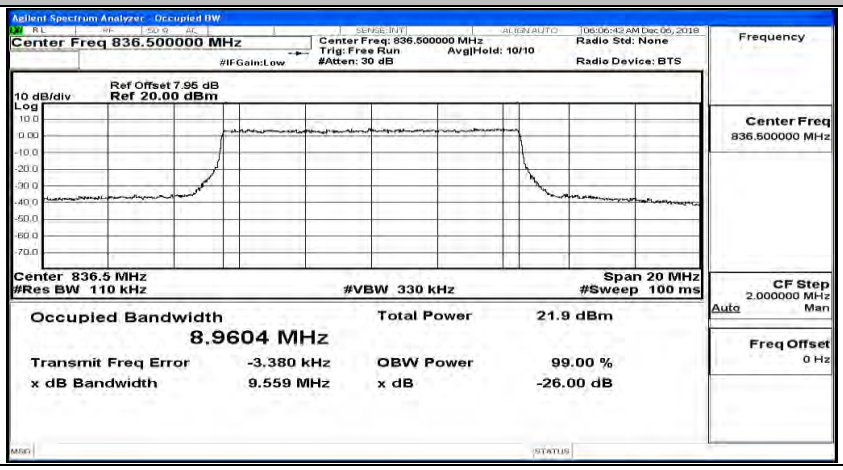
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



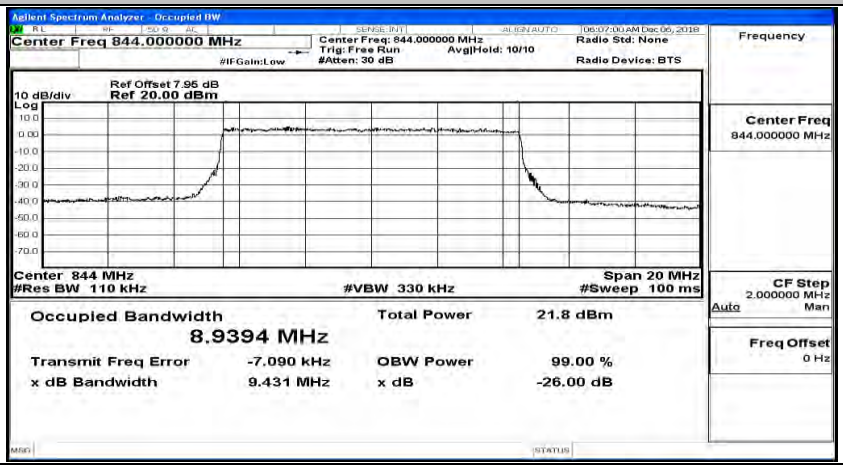
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

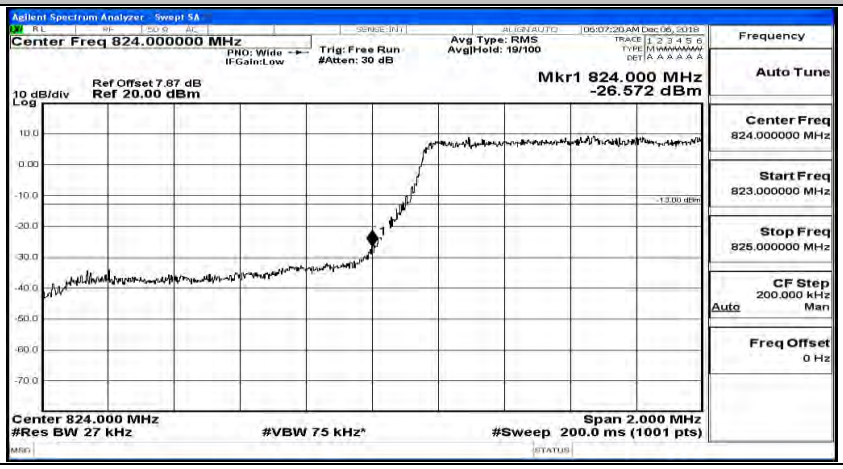


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

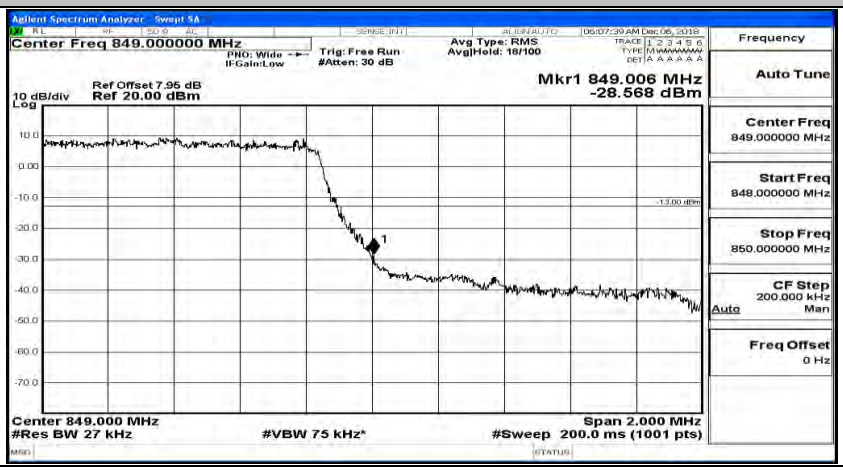


C.4 Band Edge

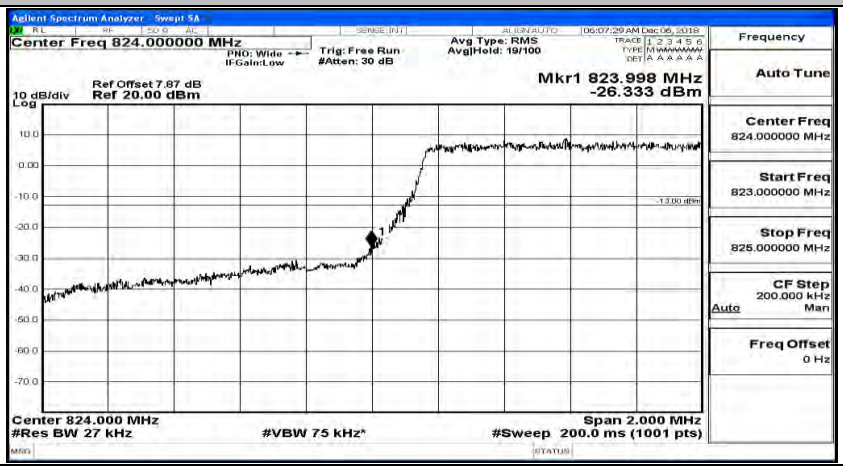
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



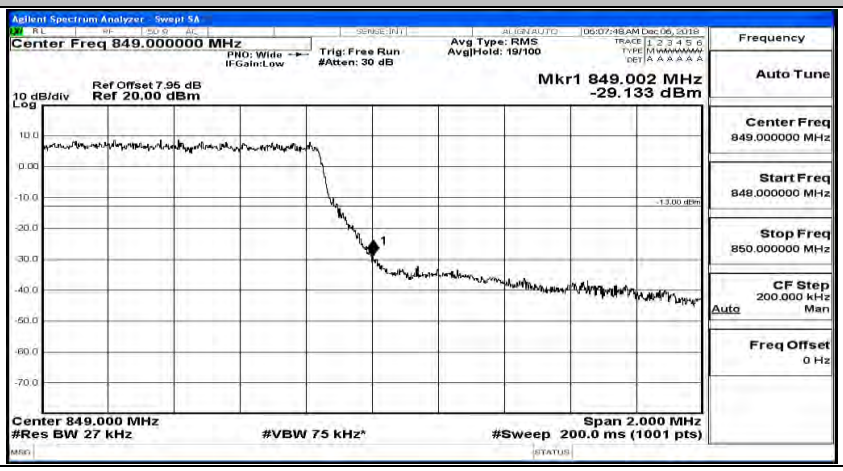
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



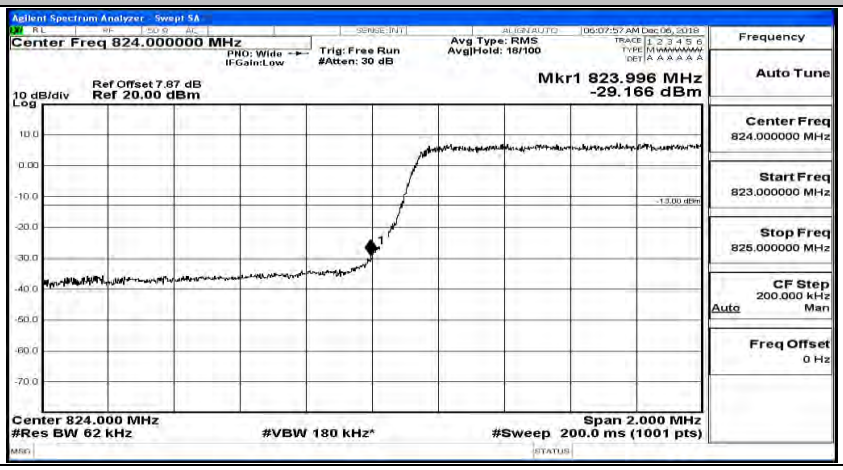
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



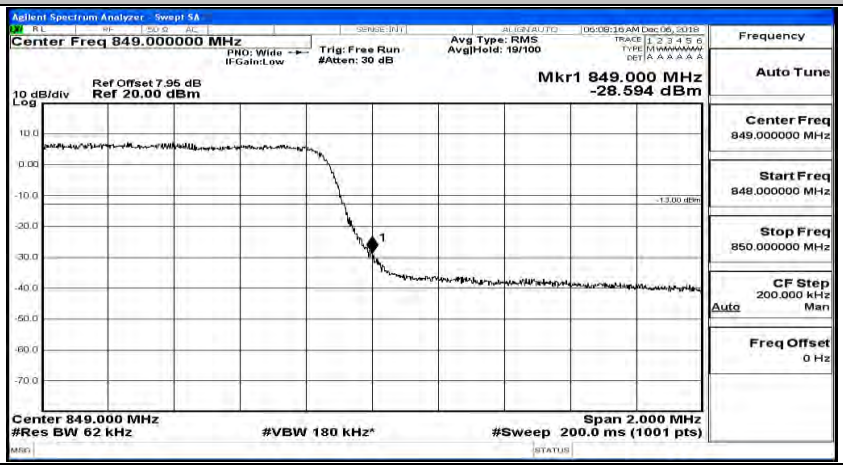
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



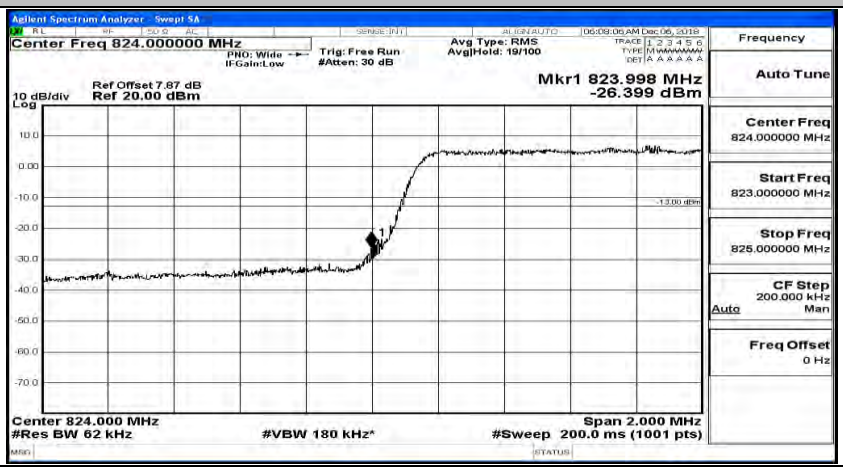
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



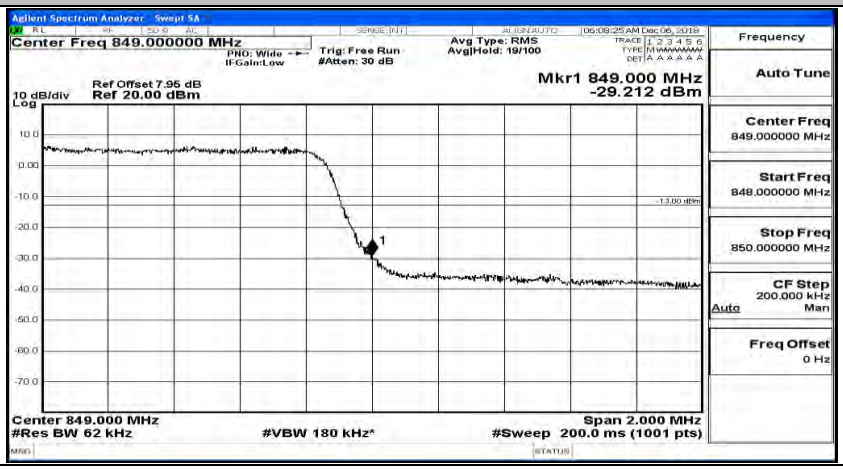
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



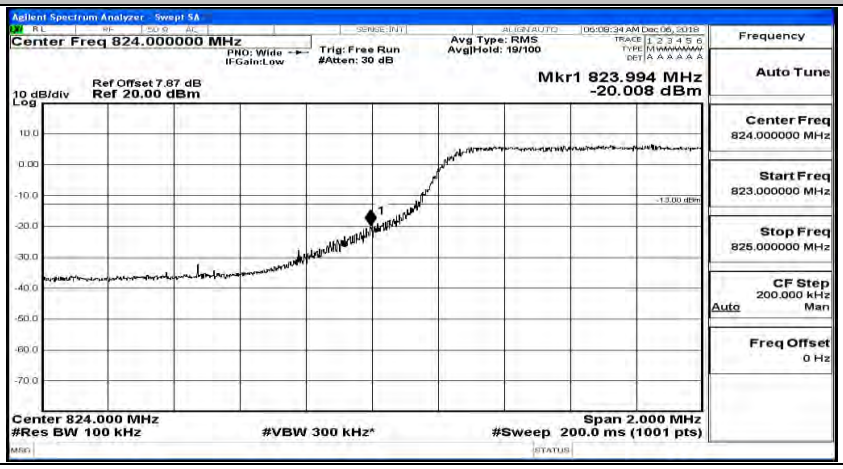
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



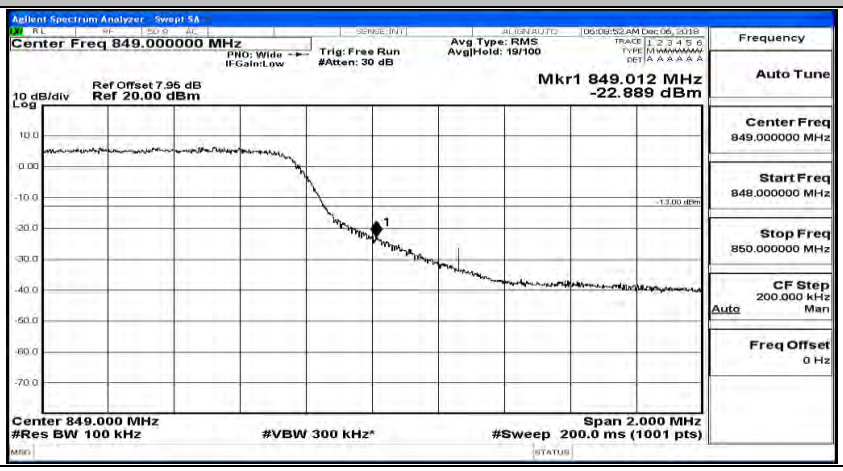
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



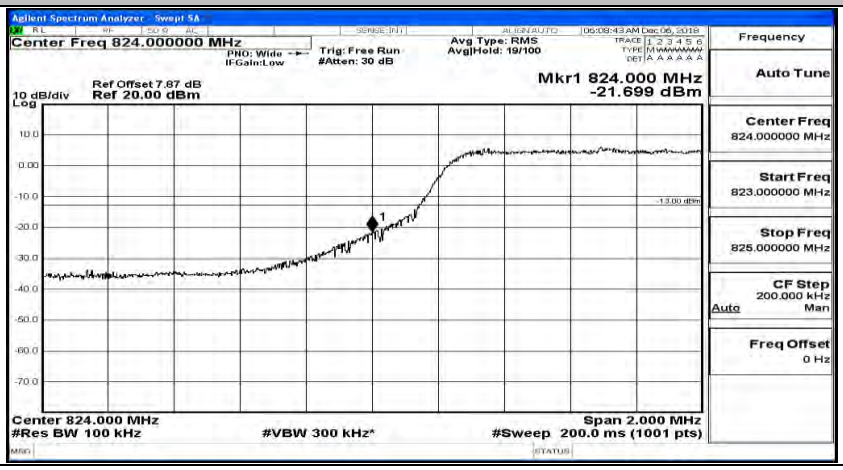
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



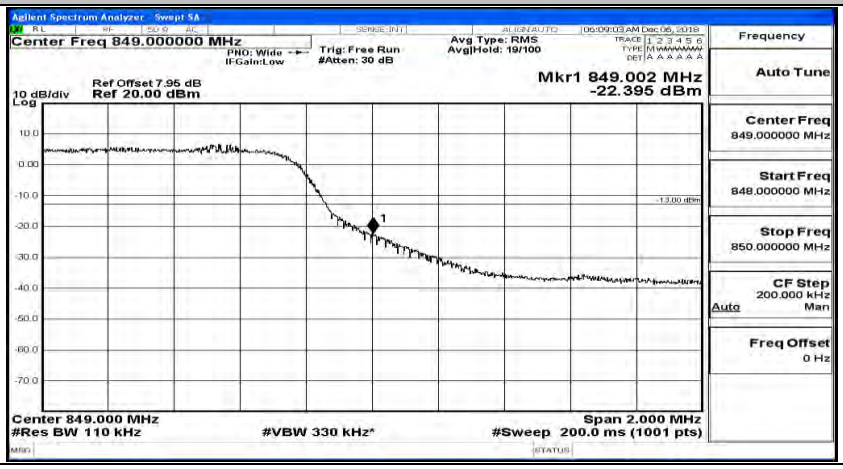
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



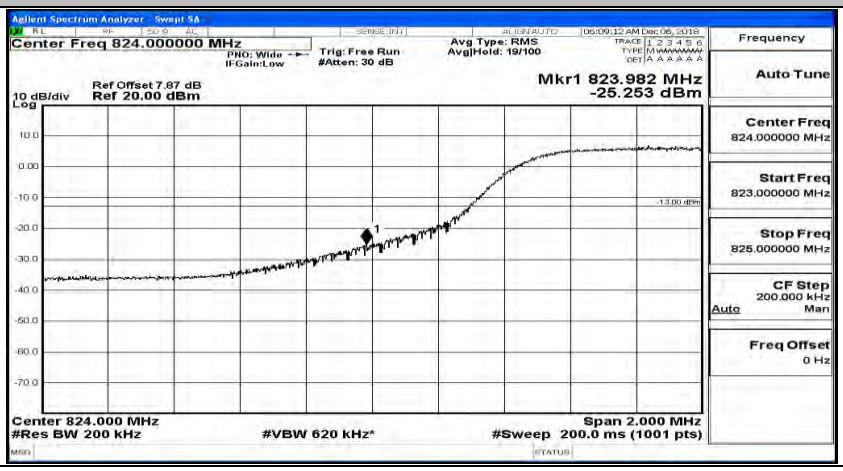
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



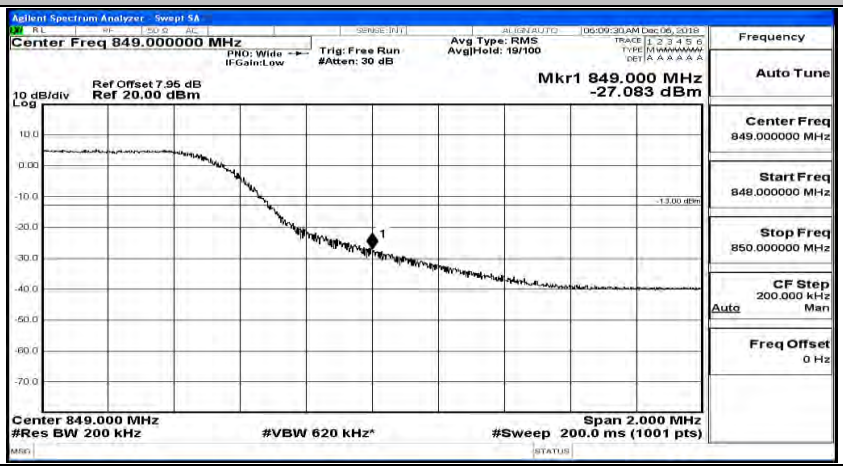
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



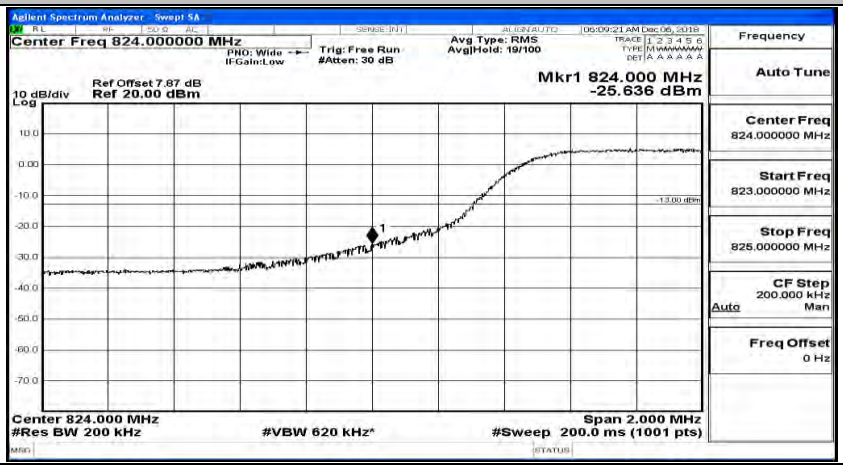
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



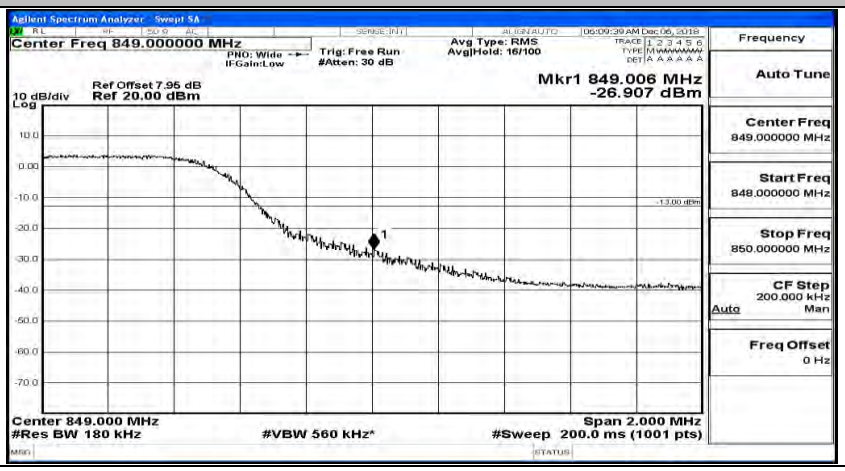
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



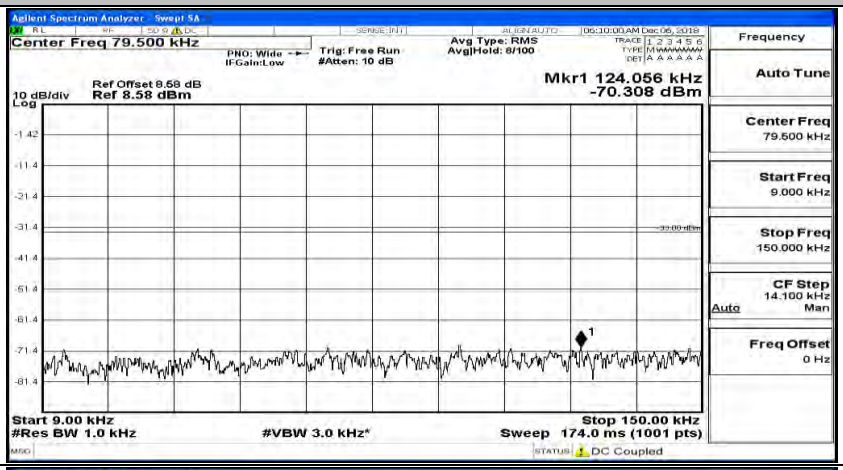
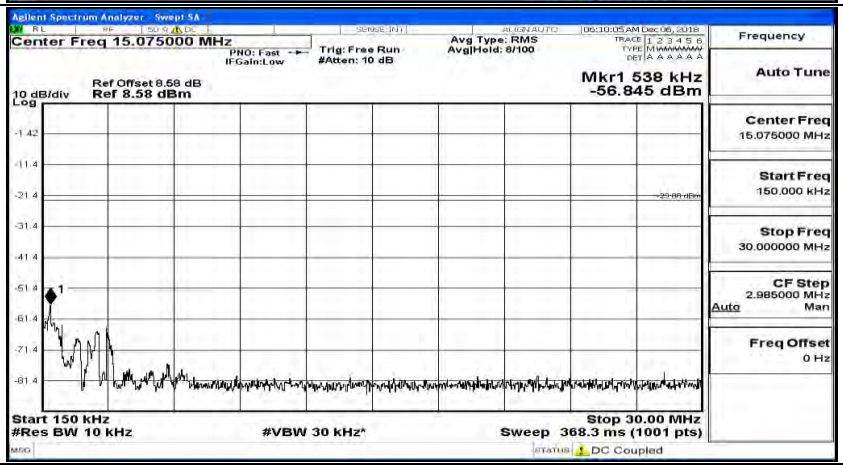
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM

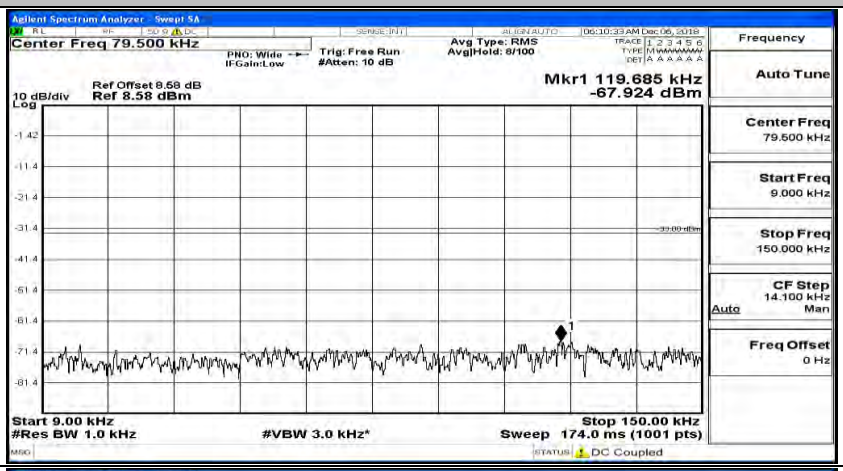
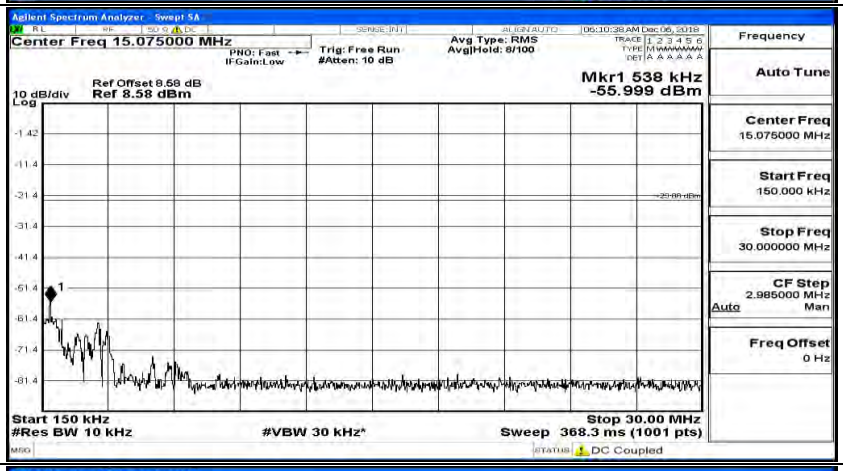


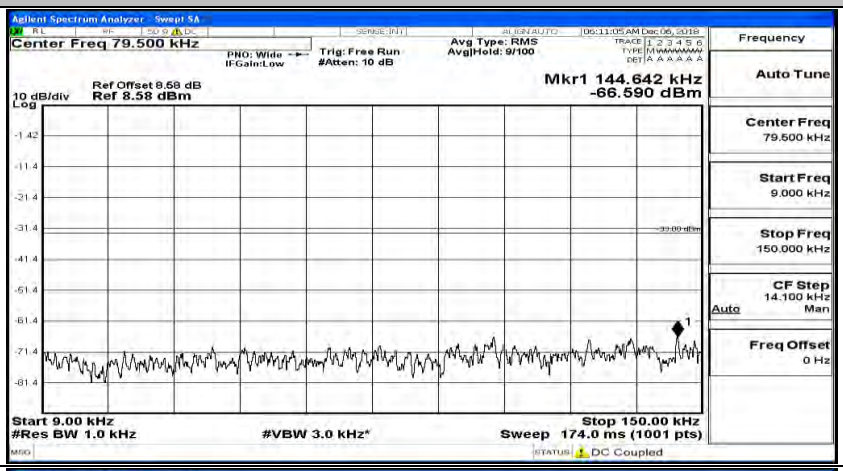
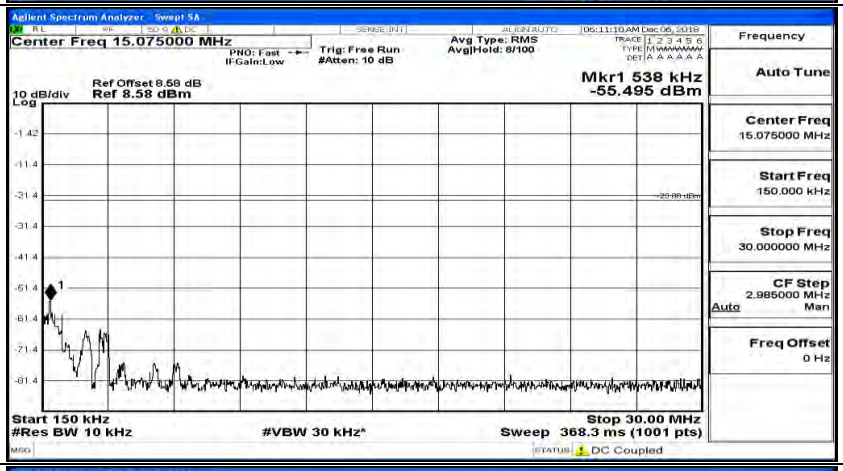
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



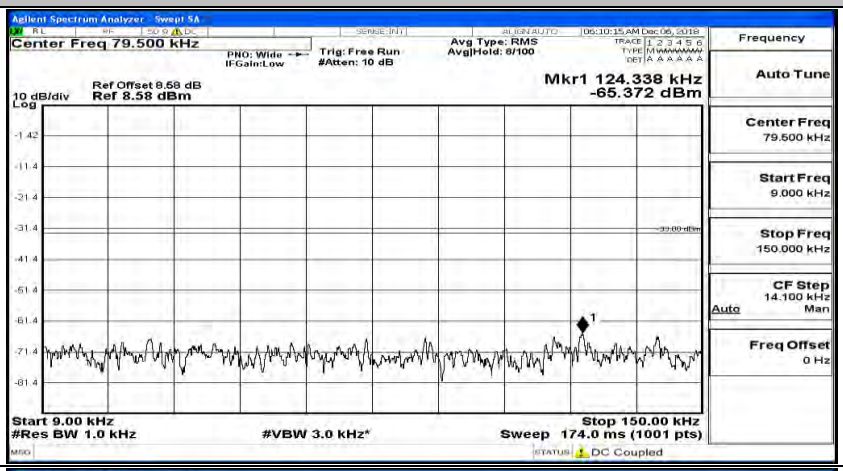
C.5 Conducted Spurious Emission

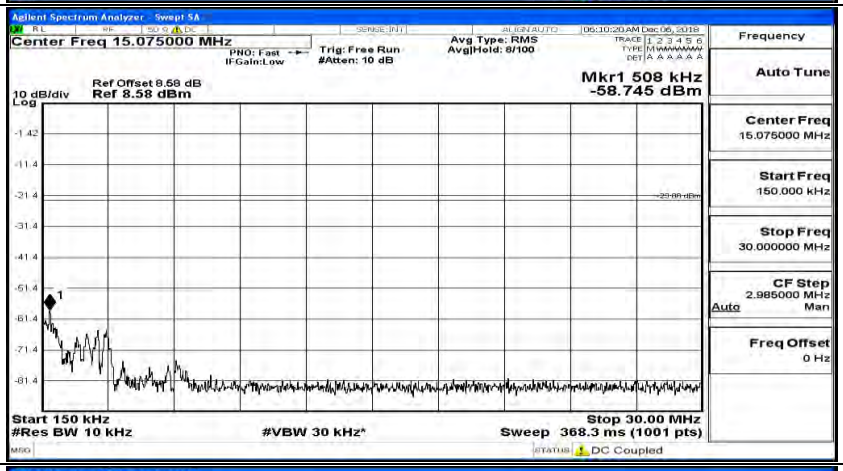
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK




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



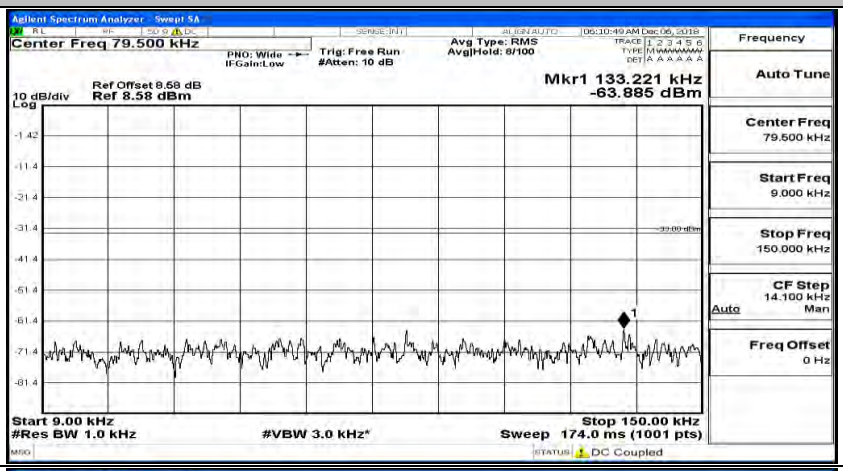

CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



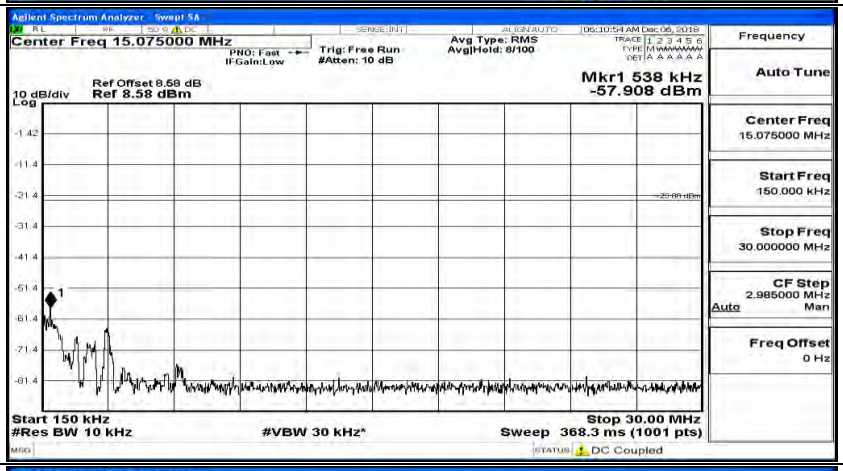

CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM

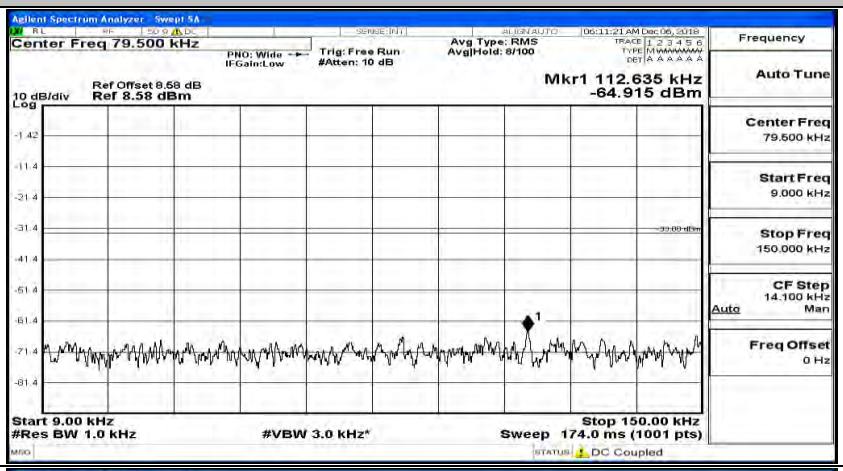
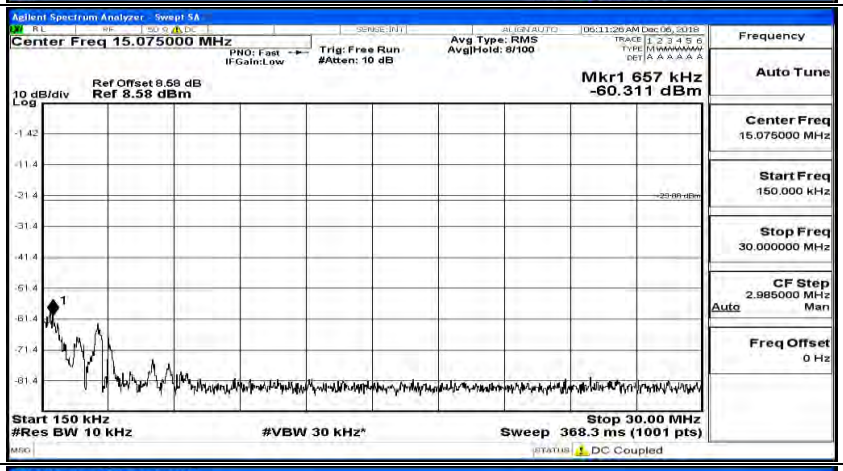


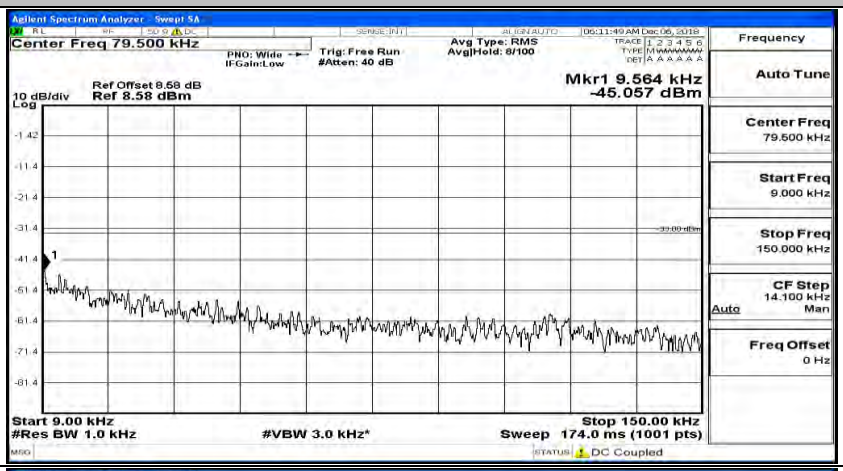
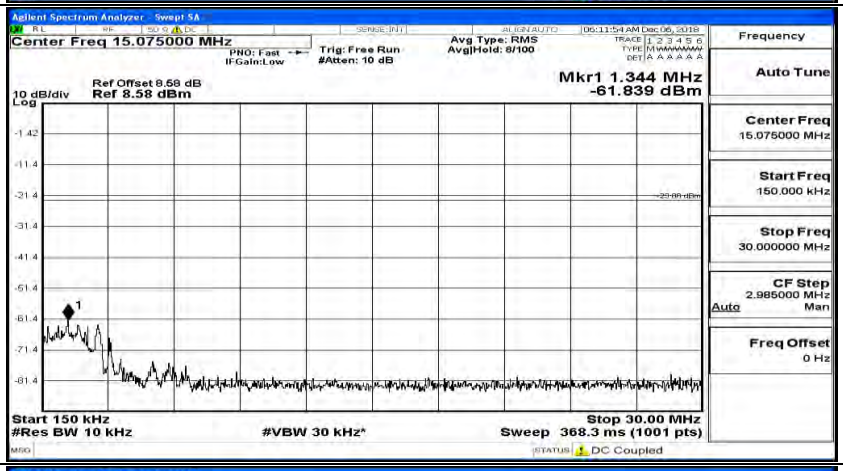


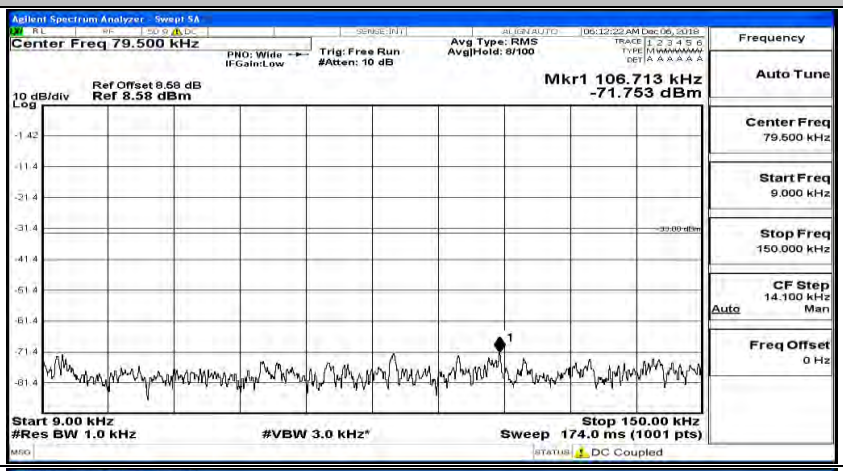
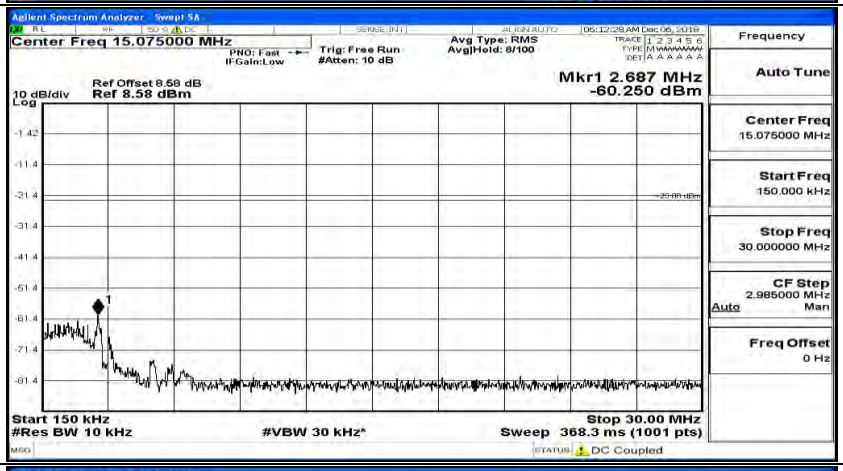
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM

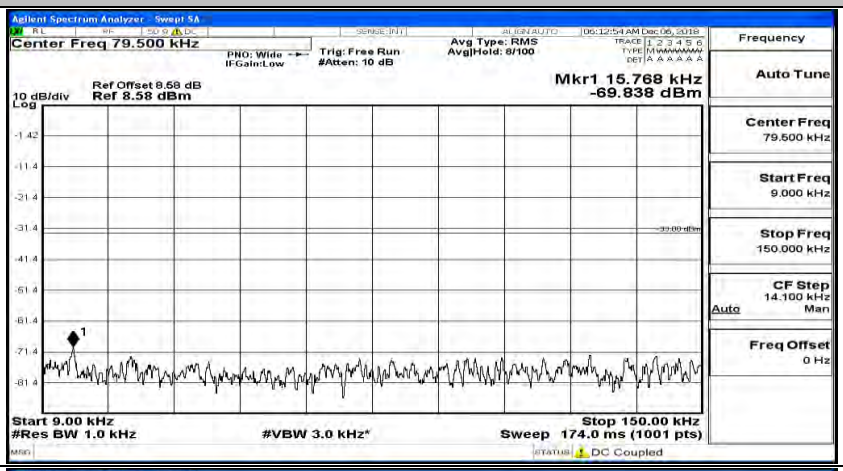
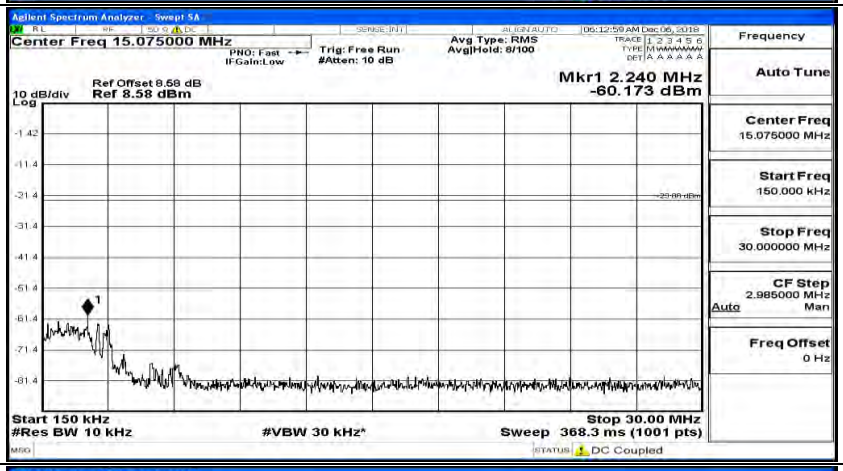


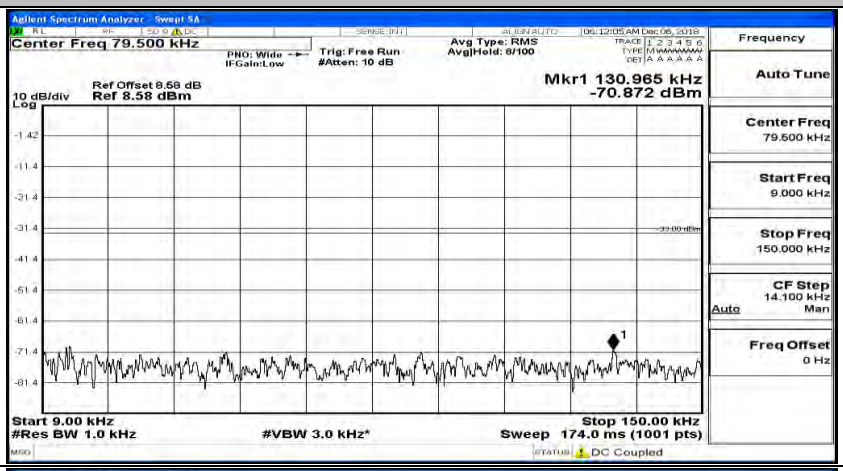
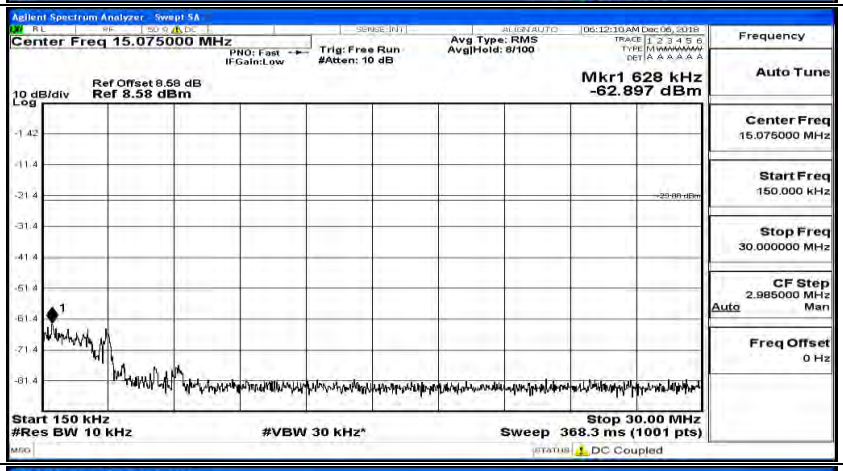


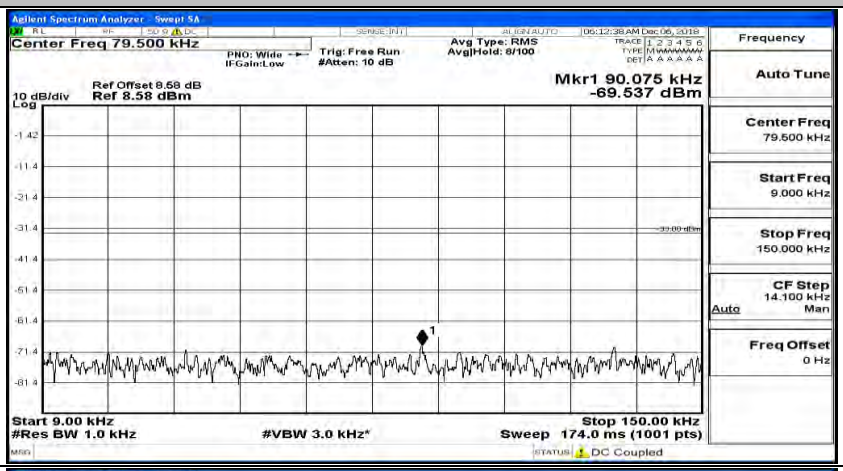
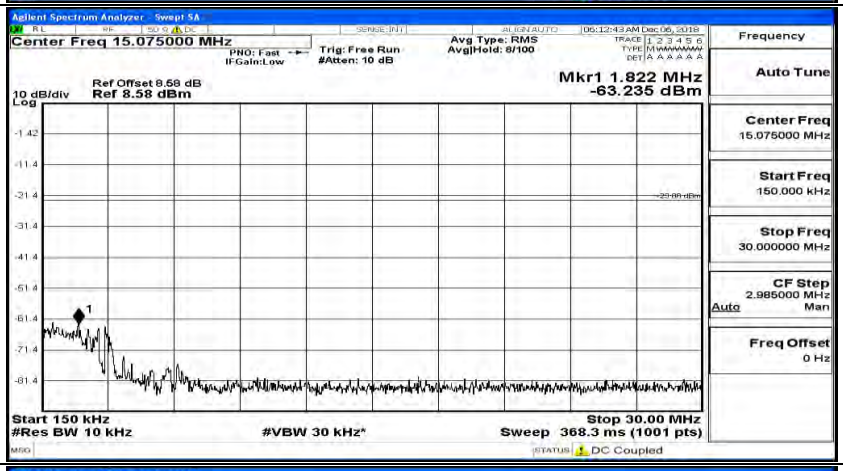
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



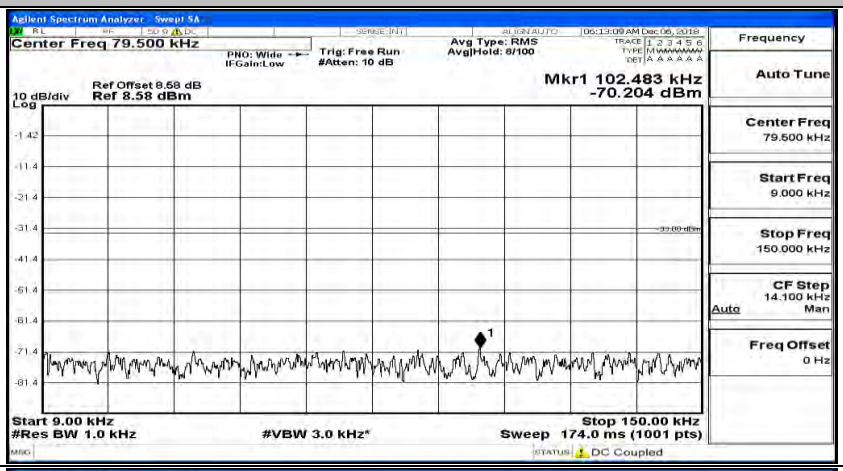
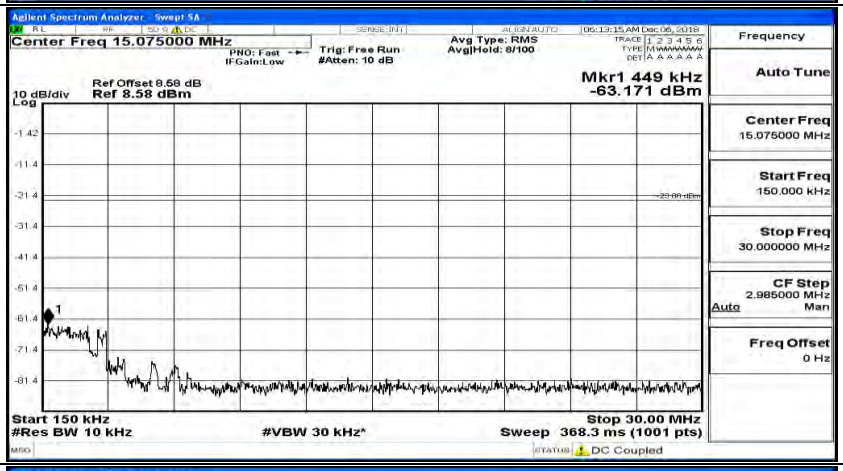

CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



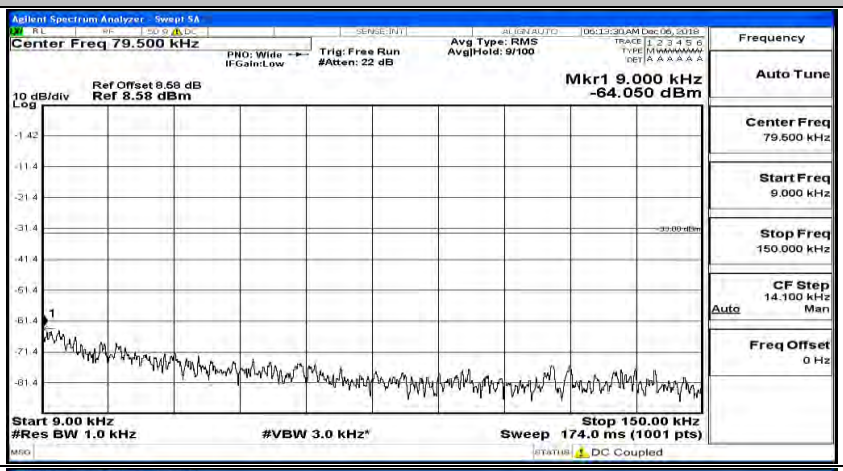
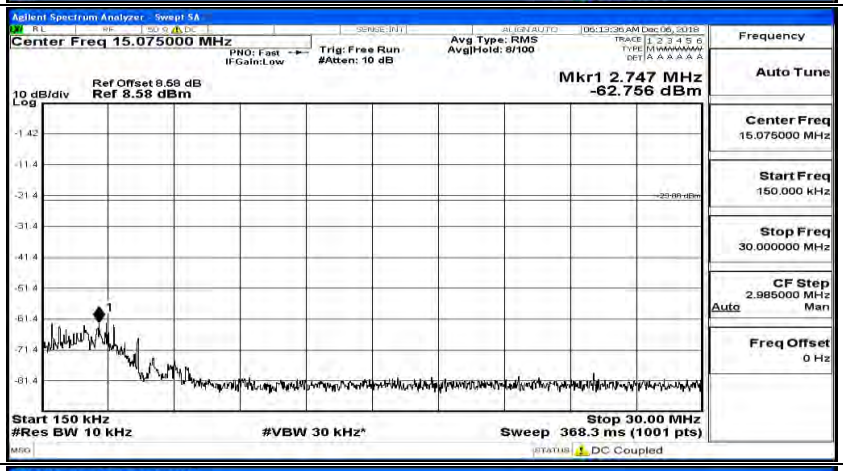

CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



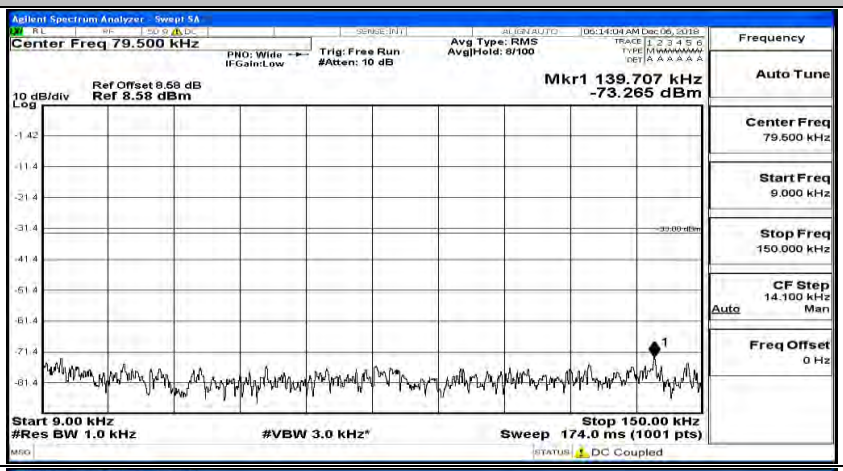
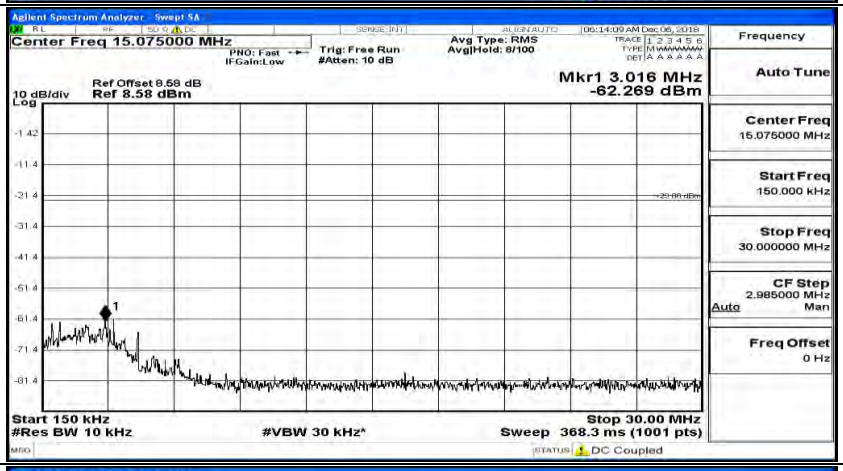

CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



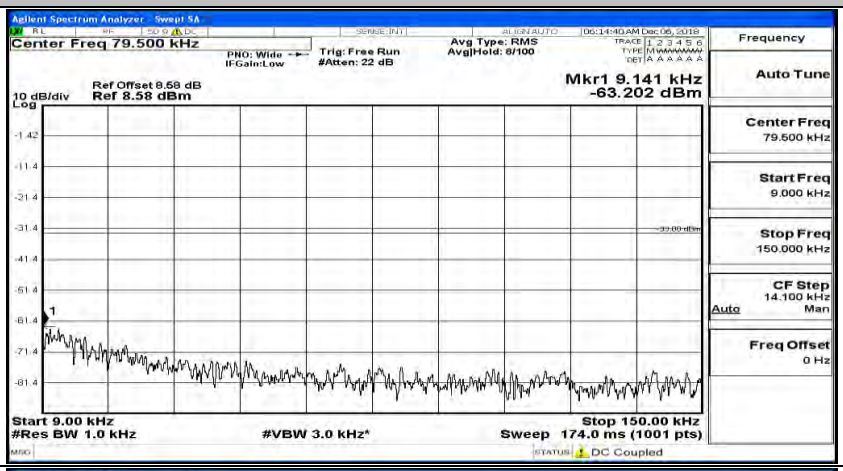
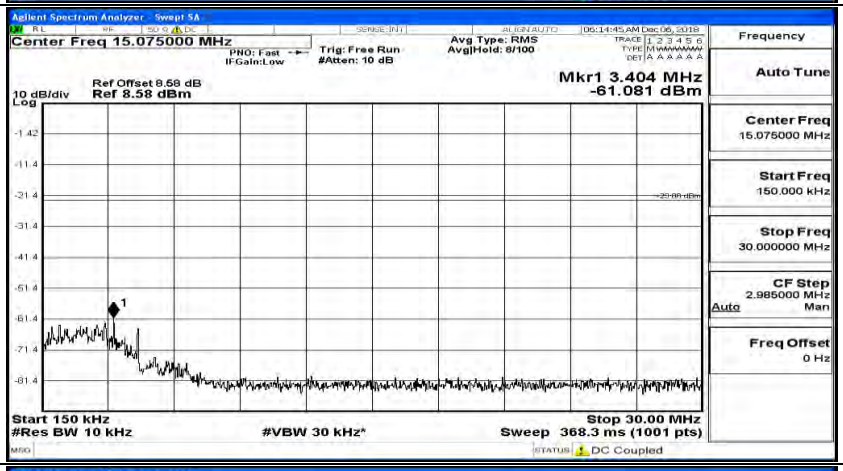

CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



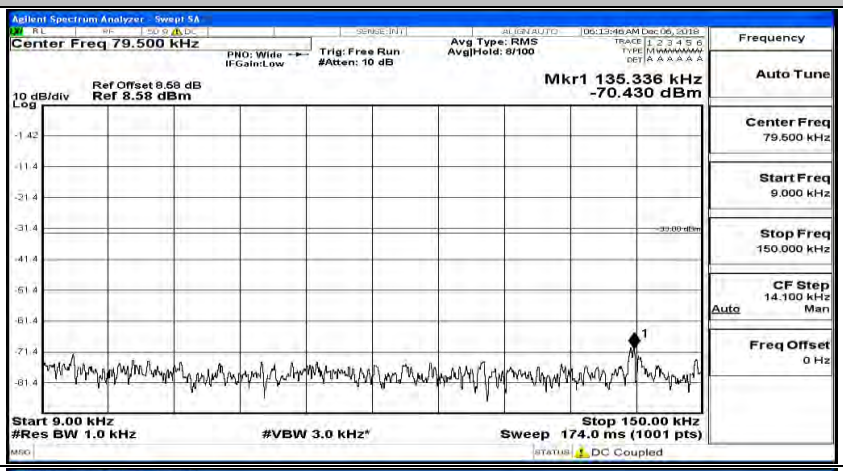
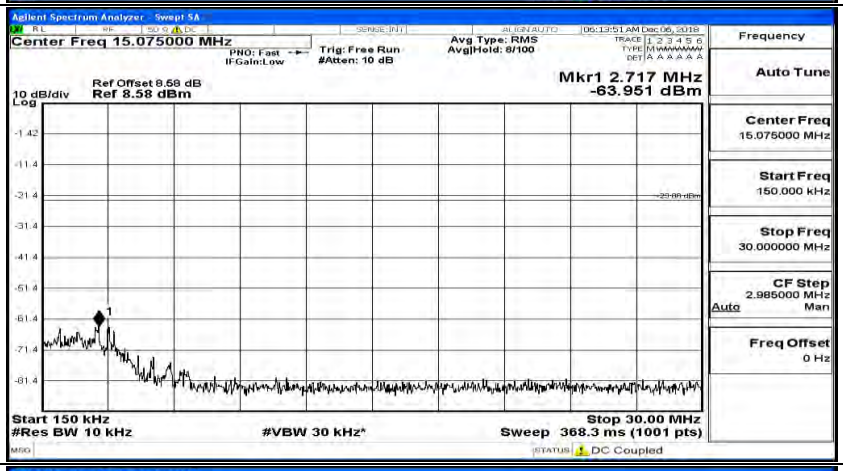

CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



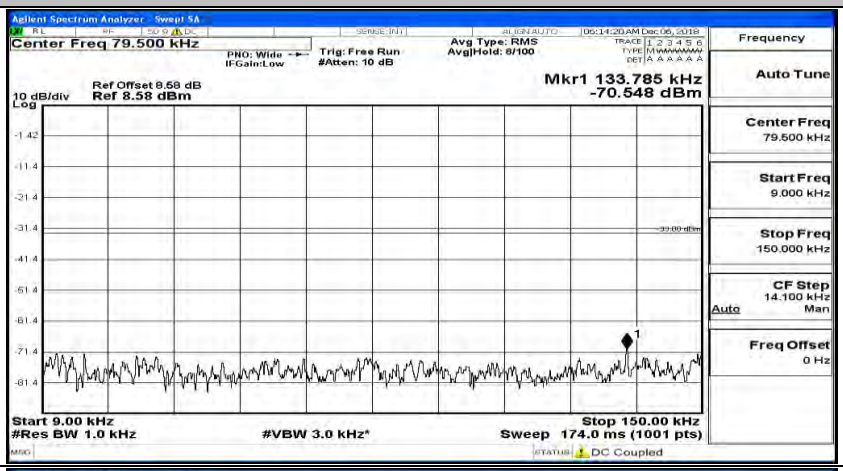
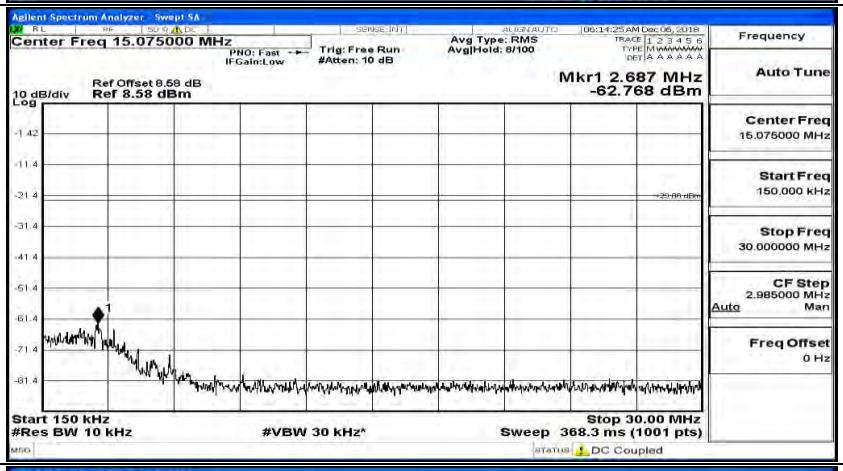

CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



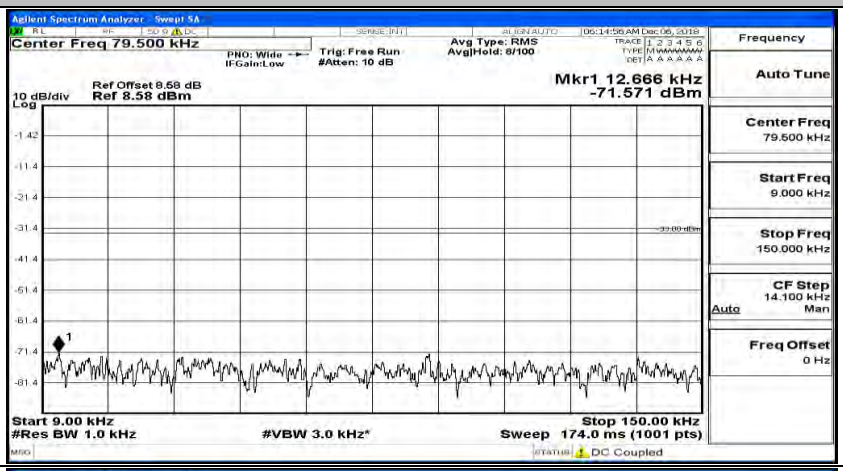
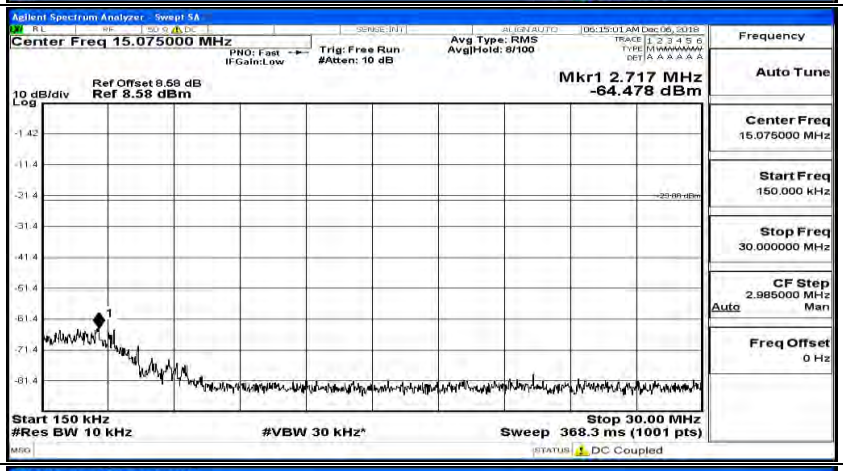

CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



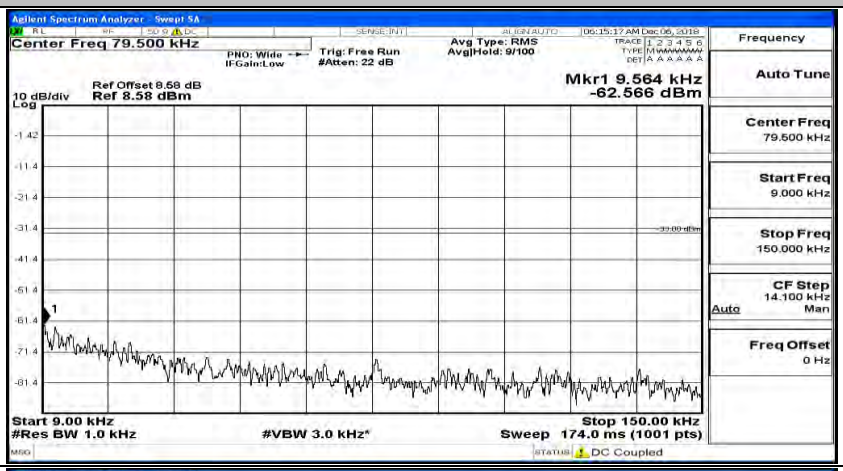
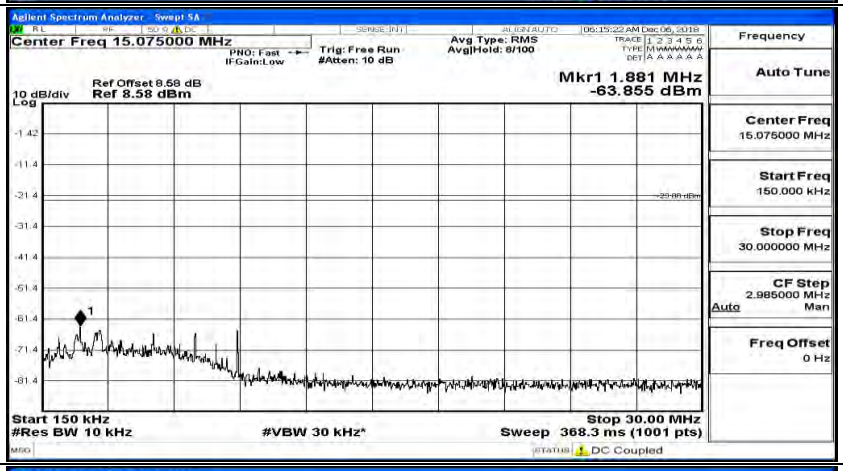

CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



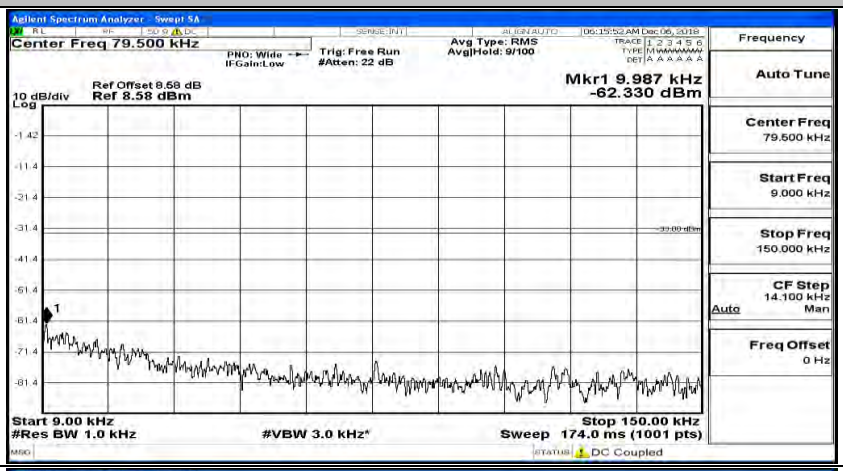
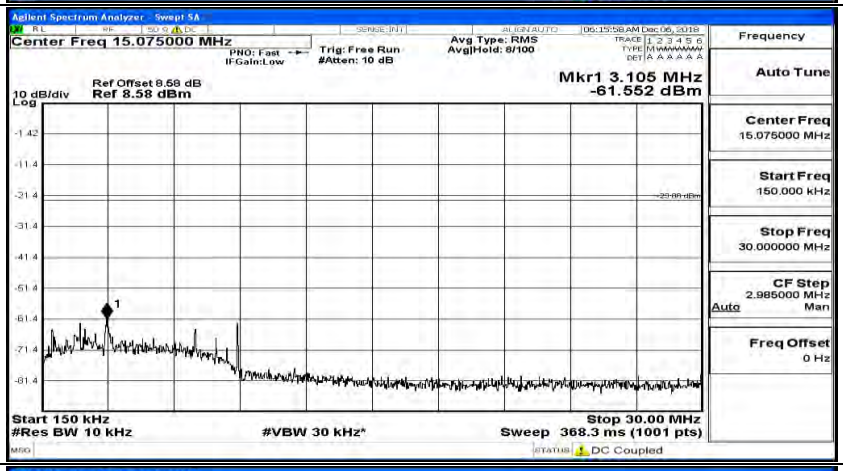

CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



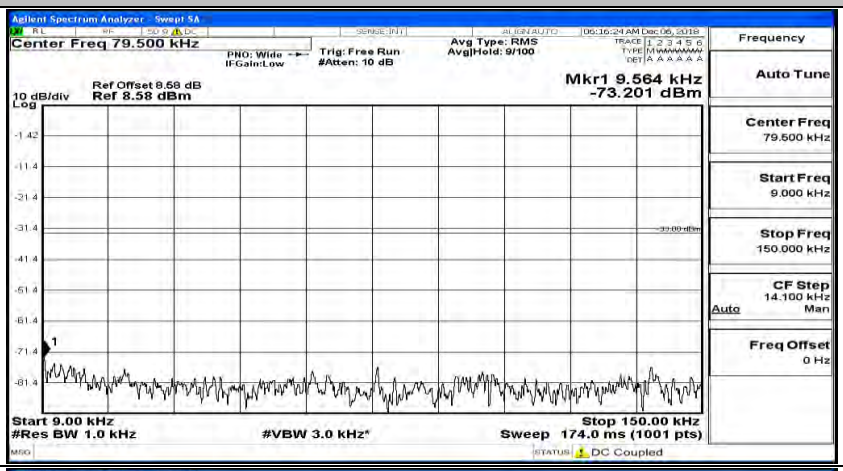
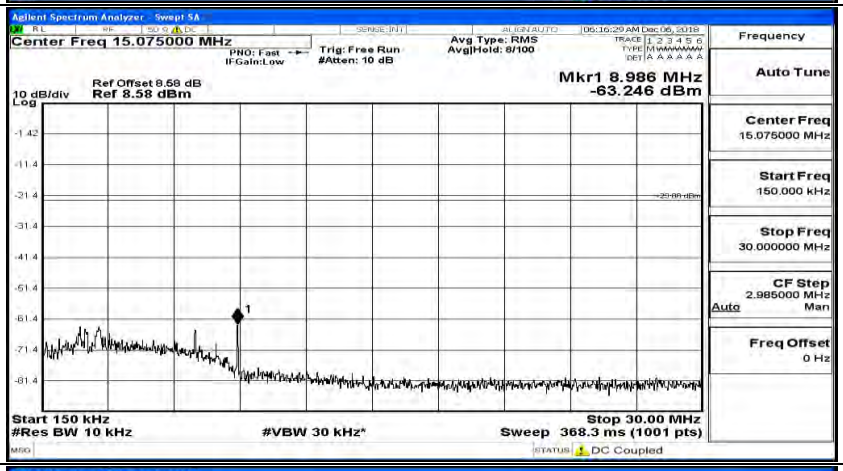

CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



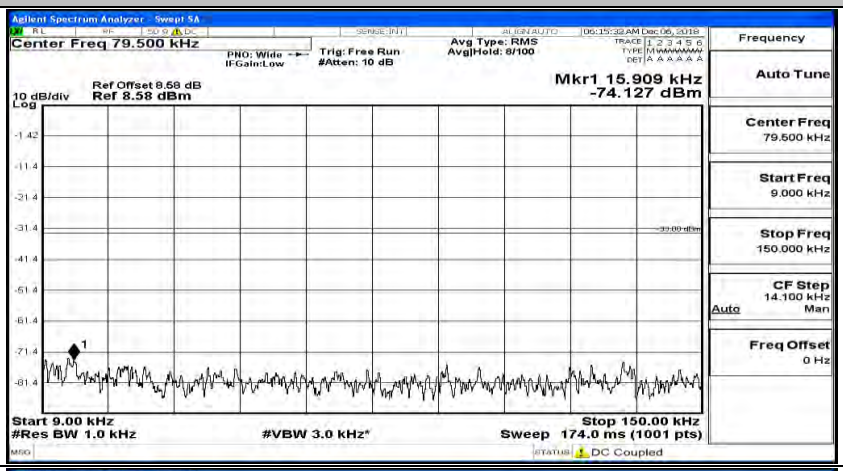
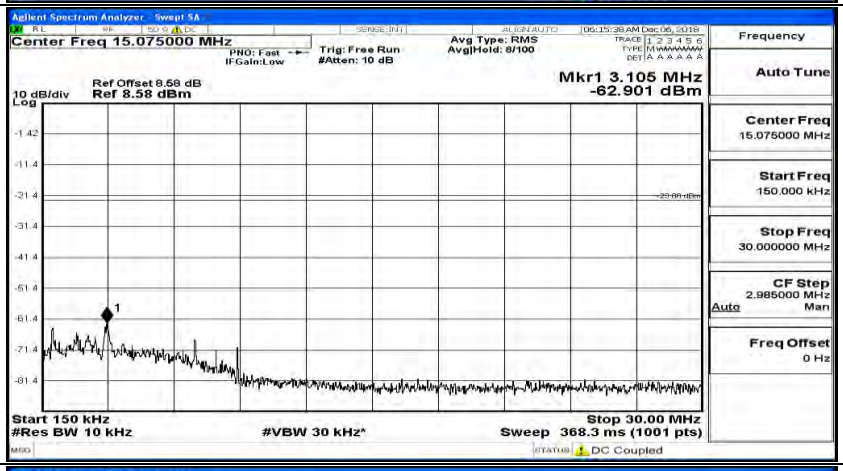

CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



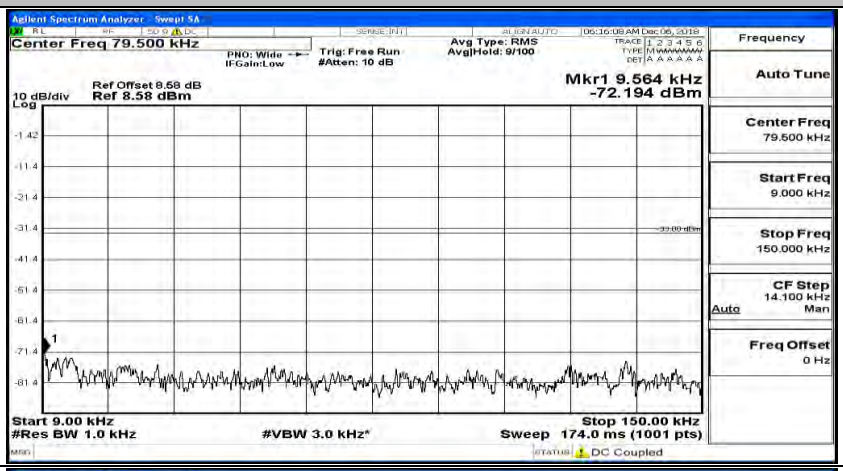

CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM




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