Appendix G: Test Data for E-UTRA Band 12

Product Name: 4G dash Camera

Trade Mark: N/A **Test Model: ES-D4**

Environmental Conditions

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

G.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict
Modulation	Channel	Size	Offset	QPSK	16QAM	verdict
		1	0	25.76	25.85	PASS
		1	3	25.72	25.88	PASS
		1	5	25.71	25.90	PASS
	LCH	3	0	25.66	24.84	PASS
		3	2	25.59	24.93	PASS
		3	3	25.60	24.95	PASS
		6	0	24.55	23.63	PASS
	MCH	1	0	25.53	24.97	PASS
		1	3	25.57	25.06	PASS
QPSK /		1	5	25.63	24.98	PASS
16QAM		3	0	25.60	24.66	PASS
TOQAIVI		3	2	25.56	24.60	PASS
		3	3	25.56	24.67	PASS
		6	0	24.44	23.47	PASS
		1	0	25.38	25.09	PASS
		1	3	25.44	25.15	PASS
		1	5	25.31	25.02	PASS
	HCH	3	0	25.49	24.55	PASS
		3	2	25.52	24.54	PASS
		3	3	25.46	24.49	PASS
		6	0	24.58	23.70	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict
iviodulation	Channel	Size	Offset	QPSK	16QAM	verdict
		1	0	25.56	25.41	PASS
		1	7	25.59	25.47	PASS
		1	14	25.51	25.27	PASS
	LCH	8	0	24.58	23.53	PASS
		8	4	24.51	23.47	PASS
		8	7	24.57	23.46	PASS
		15	0	24.65	23.58	PASS
	мсн	1	0	25.36	25.29	PASS
		1	7	25.44	25.33	PASS
QPSK /		1	14	25.41	25.26	PASS
16QAM		8	0	24.41	23.30	PASS
TOQAM		8	4	24.42	23.31	PASS
		8	7	24.39	23.33	PASS
		15	0	24.47	23.49	PASS
		1	0	25.66	25.78	PASS
		1	7	25.63	25.48	PASS
		1	14	25.22	25.25	PASS
	HCH	8	0	24.56	23.64	PASS
		8	4	24.57	23.54	PASS
		8	7	24.28	23.37	PASS
		15	0	24.59	23.59	PASS

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict
iviodulation	Channel	Size	Offset	QPSK	16QAM	verdict
		1	0	25.60	25.03	PASS
		1	12	25.50	24.96	PASS
		1	24	25.53	24.91	PASS
	LCH	12	0	24.73	23.61	PASS
		12	6	24.56	23.64	PASS
		12	13	24.59	23.61	PASS
		25	0	24.54	23.61	PASS
	мсн	1	0	25.58	25.46	PASS
		1	12	25.59	25.53	PASS
QPSK /		1	24	25.68	25.73	PASS
16QAM		12	0	24.58	23.61	PASS
TOQAM		12	6	24.52	23.63	PASS
		12	13	24.51	23.68	PASS
		25	0	24.57	23.56	PASS
		1	0	25.61	23.99	PASS
		1	12	25.57	24.04	PASS
		1	24	24.05	22.46	PASS
	HCH	12	0	24.67	23.72	PASS
		12	6	24.57	23.76	PASS
		12	13	24.55	23.71	PASS
		25	0	24.72	23.78	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channal	RB Configuration		Average Power [dBm]	Average Power [dBm]	Vardiat
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	25.47	25.43	PASS
		1	24	25.36	25.35	PASS
		1	49	25.34	25.32	PASS
	LCH	25	0	24.58	23.40	PASS
		25	12	24.60	23.40	PASS
		25	25	24.57	23.42	PASS
		50	0	24.61	23.48	PASS
	МСН	1	0	25.31	25.17	PASS
		1	24	25.33	25.24	PASS
QPSK /		1	49	25.48	25.40	PASS
16QAM		25	0	24.59	23.47	PASS
TOQAM		25	12	24.52	23.42	PASS
		25	25	24.72	23.55	PASS
		50	0	24.61	23.40	PASS
		1	0	25.54	24.91	PASS
		1	24	25.66	24.95	PASS
		1	49	25.23	24.60	PASS
	HCH	25	0	24.48	23.53	PASS
		25	12	24.62	23.56	PASS
		25	25	24.76	23.73	PASS
		50	0	24.67	23.57	PASS

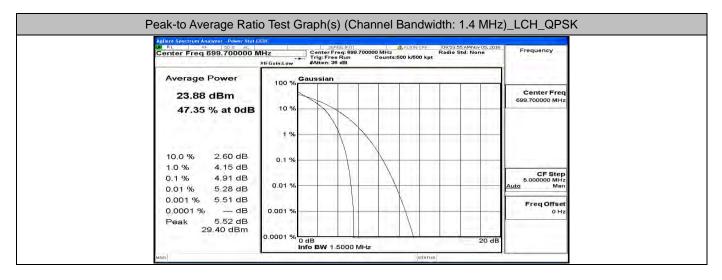
G.2 Peak-to-Average Ratio

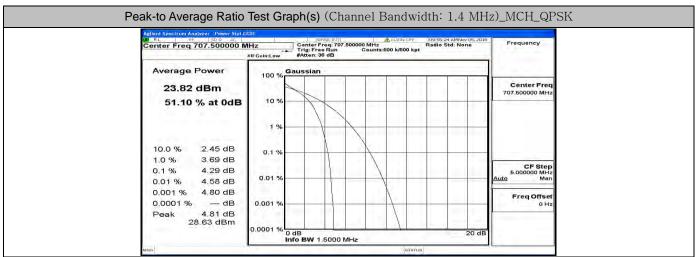
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict	
IVIOGUIATION	Chame	[dB]	[dB]	verdict	
	LCH	4.91	<13	PASS	
QPSK	MCH	4.29	<13	PASS	
	HCH	4.17	<13	PASS	
16QAM	LCH	5.75	<13	PASS	
	MCH	5.18	<13	PASS	
	HCH	5.00	<13	PASS	

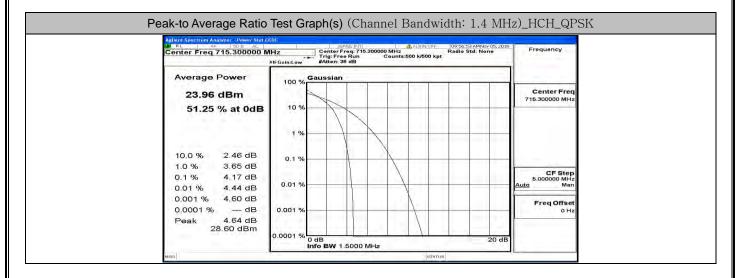
Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
iviodulation	Griannei	[dB]	[dB]	verdict		
QPSK	LCH	4.8	<13	PASS		
	MCH	4.46	<13	PASS		
	HCH	4.61	<13	PASS		
16QAM	LCH	5.78	<13	PASS		
	MCH	5.45	<13	PASS		
	HCH	5.45	<13	PASS		

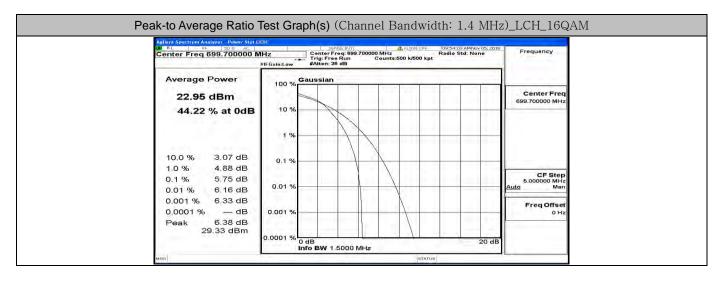
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Vordict		
Modulation	Chame	[dB]	[dB]	Verdict		
QPSK	LCH	4.69	<13	PASS		
	MCH	4.51	<13	PASS		
	HCH	4.65	<13	PASS		
16QAM	LCH	5.54	<13	PASS		
	MCH	5.36	<13	PASS		
	HCH	5.5	<13	PASS		

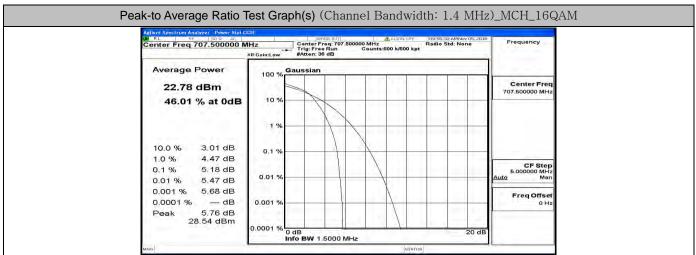
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Vardiet		
Modulation	Griannei	[dB]	[dB]	Verdict		
QPSK	LCH	4.88	<13	PASS		
	MCH	4.98	<13	PASS		
	HCH	4.9	<13	PASS		
	LCH	5.61	<13	PASS		
16QAM	MCH	5.76	<13	PASS		
	HCH	5.73	<13	PASS		

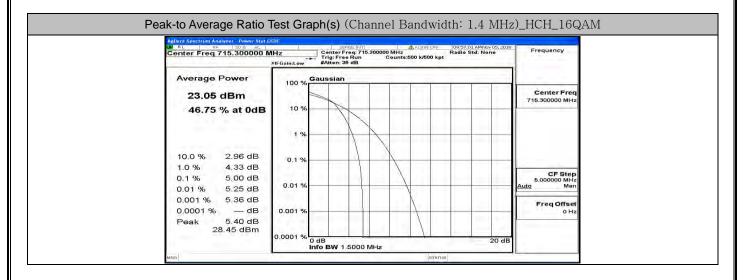


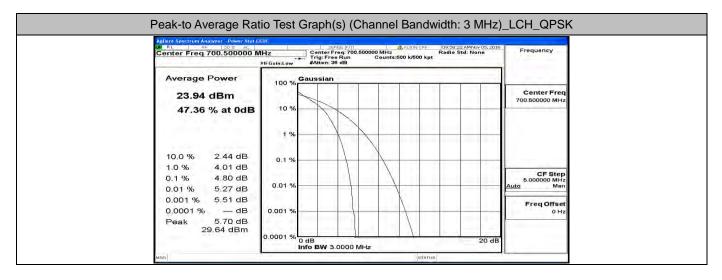


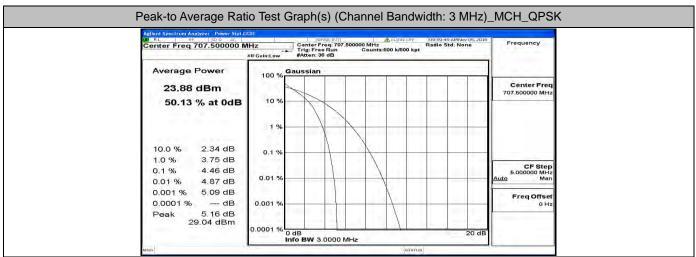


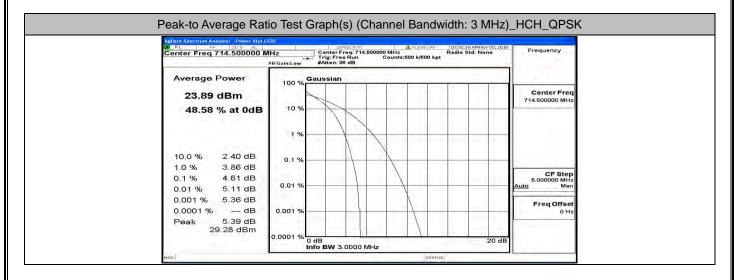


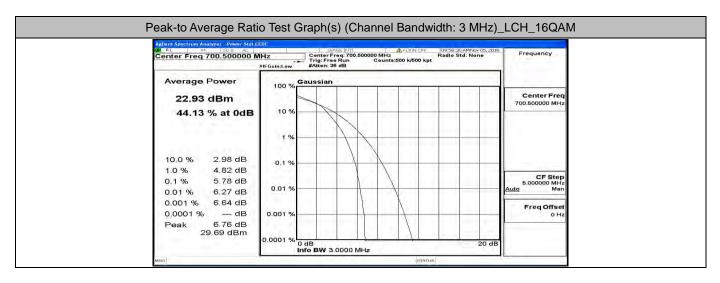


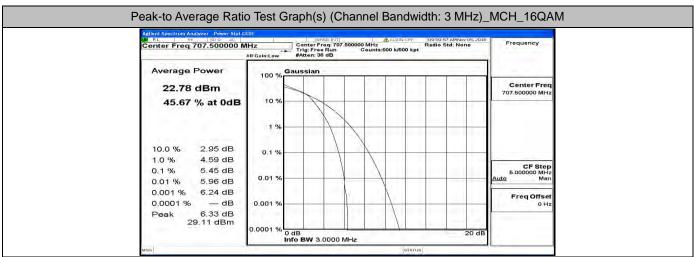


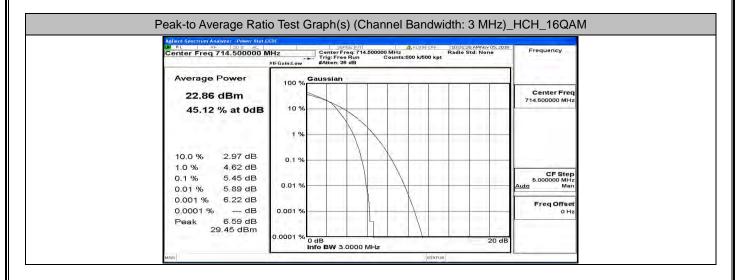


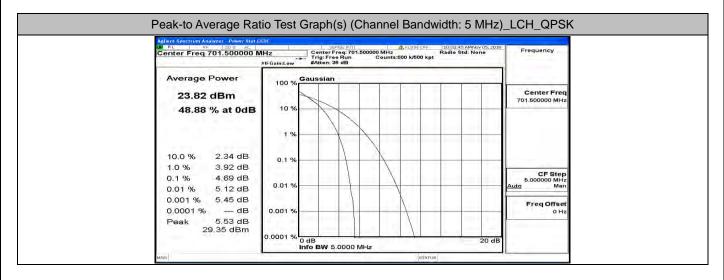


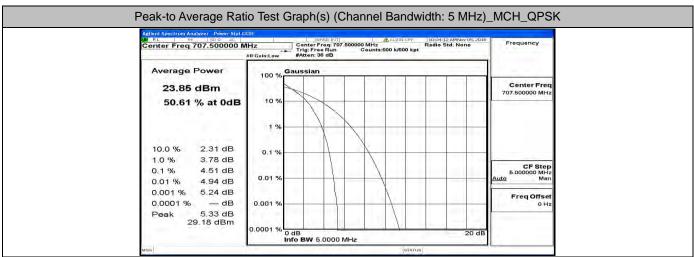


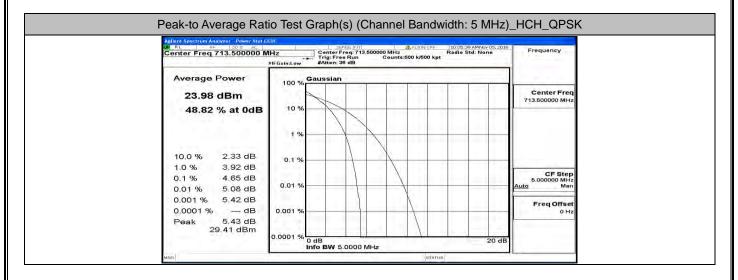


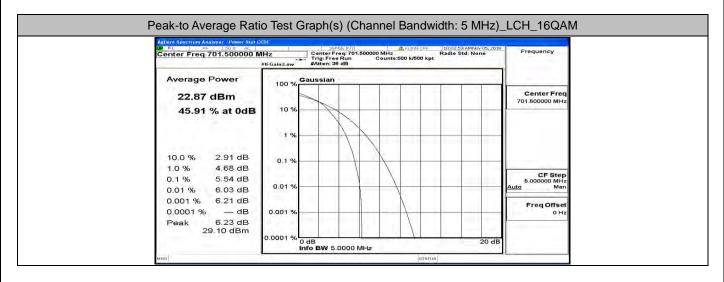


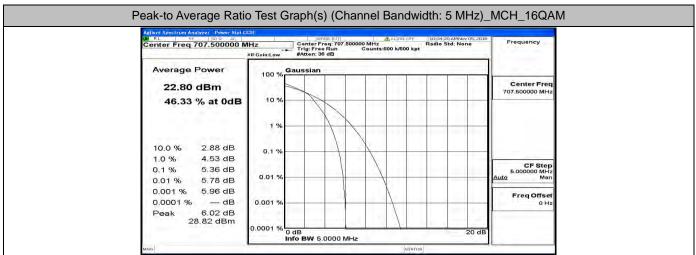


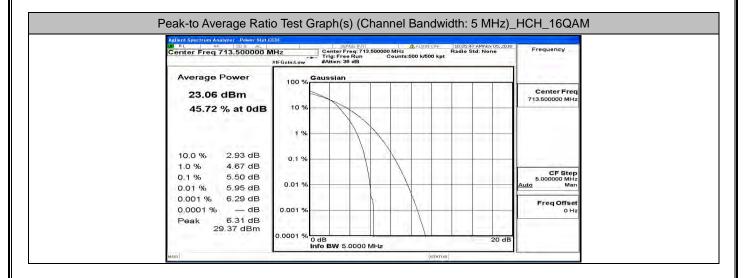


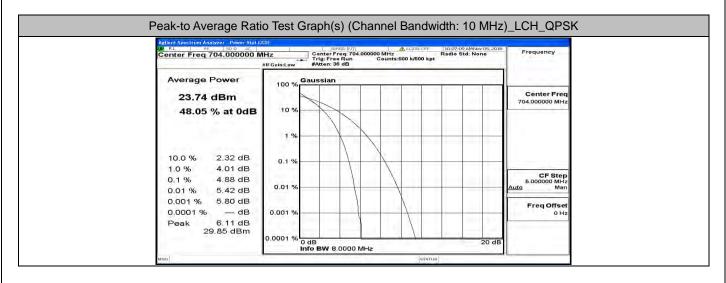


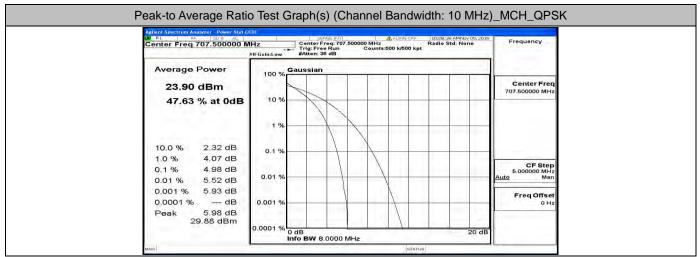


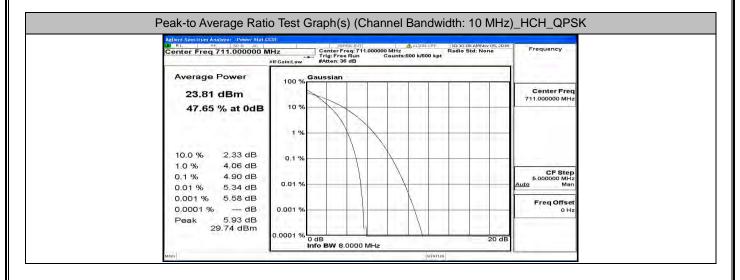


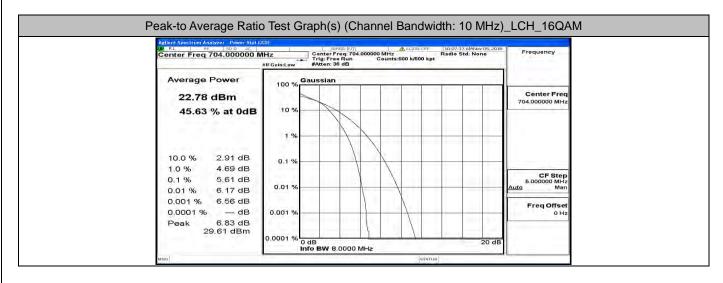


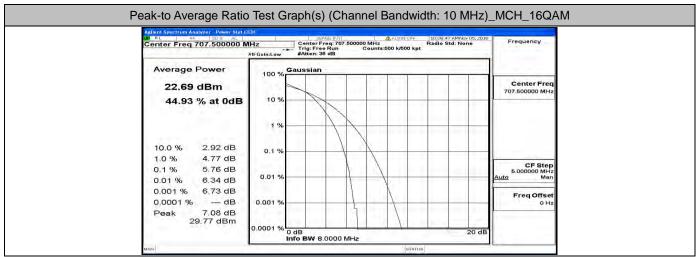


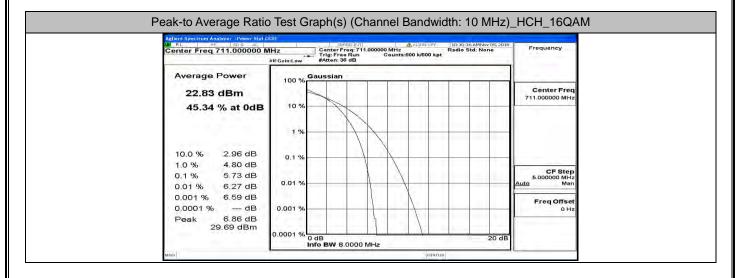












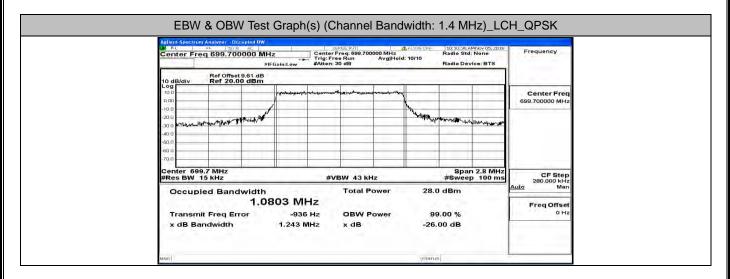
G.3 26dB Bandwidth and Occupied Bandwidth

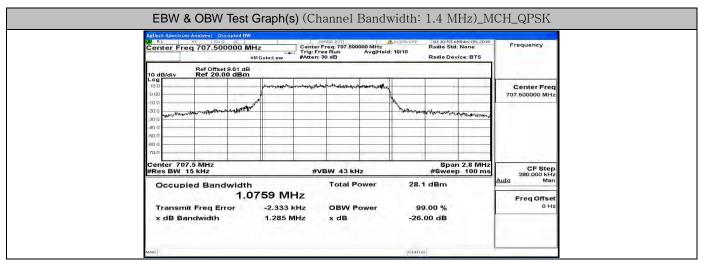
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict		
Iviodulation	Chamilei	(MHz)	(MHz)	verdict		
	LCH	1.0803	1.243	PASS		
QPSK	MCH	1.0759	1.285	PASS		
	HCH	1.0871	1.696	PASS		
16QAM	LCH	1.0794	1.242	PASS		
	MCH	1.0818	1.237	PASS		
	HCH	1.0853	1.333	PASS		

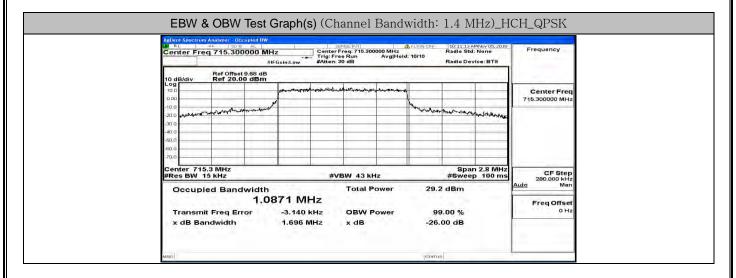
EBW & OBW Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Vardiet		
Modulation	Griannei	(MHz)	(MHz)	Verdict		
	LCH	2.6842	2.949	PASS		
QPSK	MCH	2.6912	2.998	PASS		
	HCH	2.6868	2.953	PASS		
16QAM	LCH	2.6853	2.976	PASS		
	MCH	2.6893	2.978	PASS		
	HCH	2.6898	3.038	PASS		

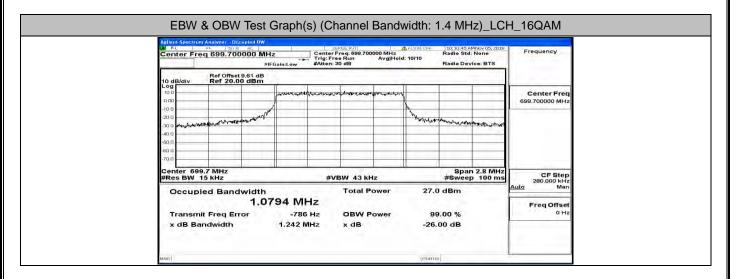
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict		
Modulation	Channel	(MHz)	(MHz)	verdict		
QPSK	LCH	4.4620	4.799	PASS		
	MCH	4.4771	4.824	PASS		
	HCH	4.4692	4.807	PASS		
16QAM	LCH	4.4623	4.825	PASS		
	MCH	4.4714	4.866	PASS		
	HCH	4.4634	4.843	PASS		

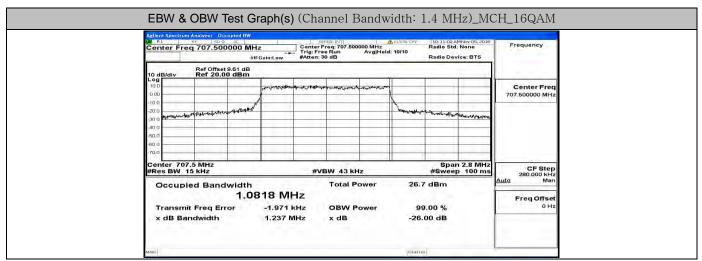
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
		(MHz)	(MHz)	
QPSK	LCH	8.9411	9.544	PASS
	MCH	8.9599	9.542	PASS
	HCH	8.9196	9.504	PASS
16QAM	LCH	8.9279	9.483	PASS
	MCH	8.9560	9.596	PASS
	HCH	8.9329	9.481	PASS

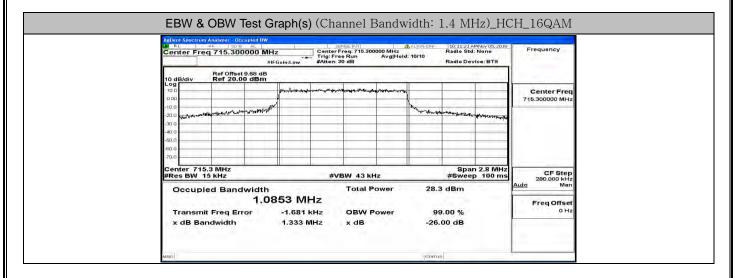


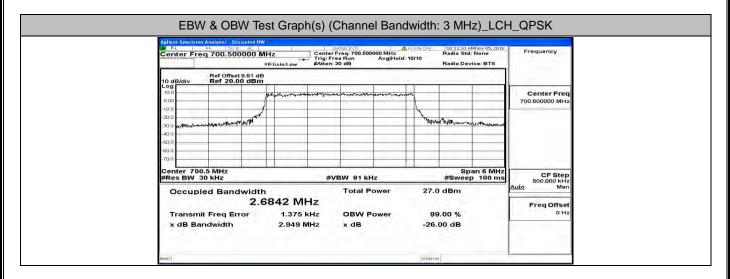


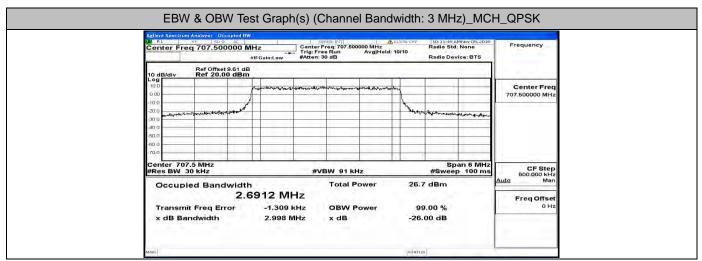


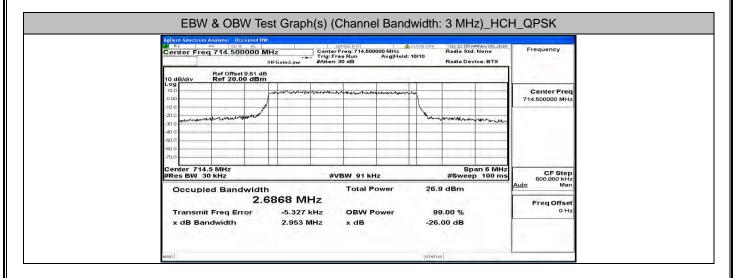


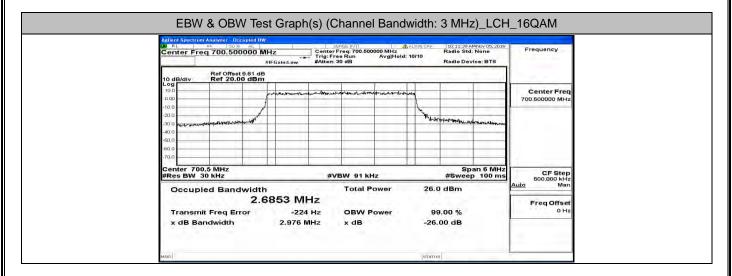


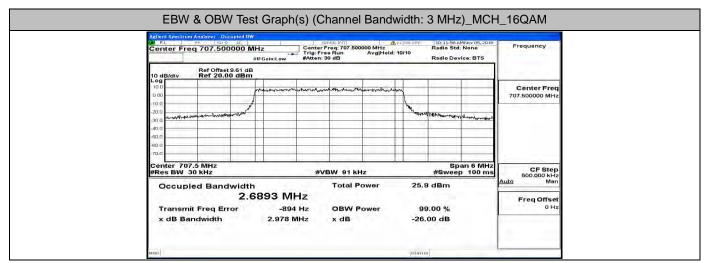


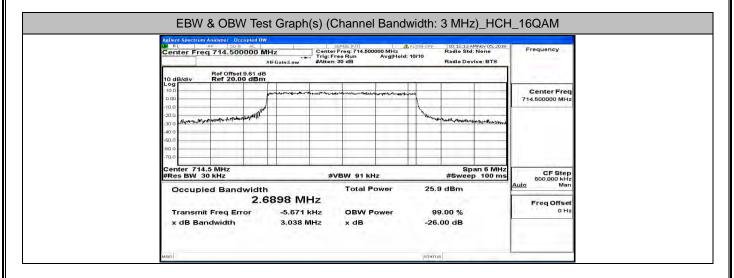


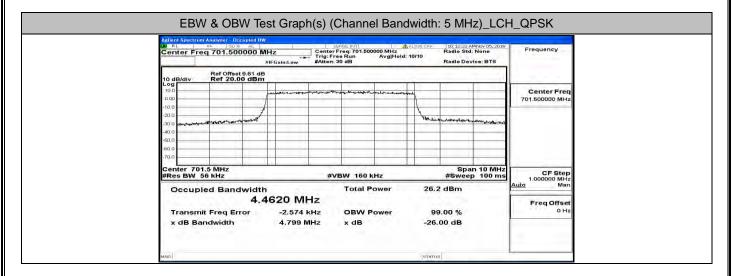


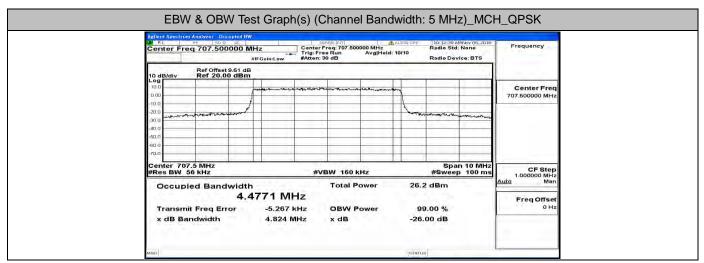


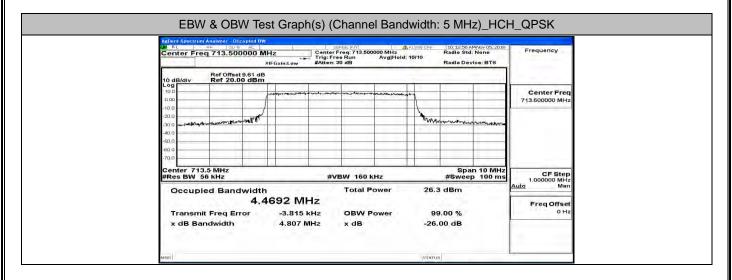


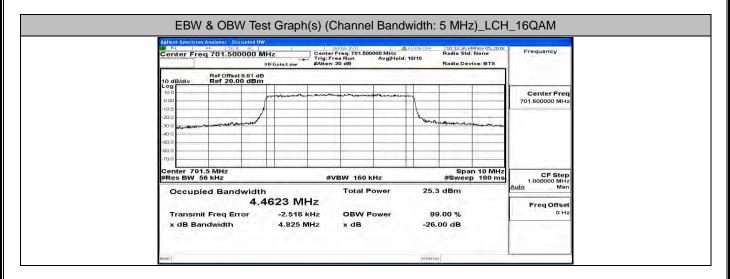


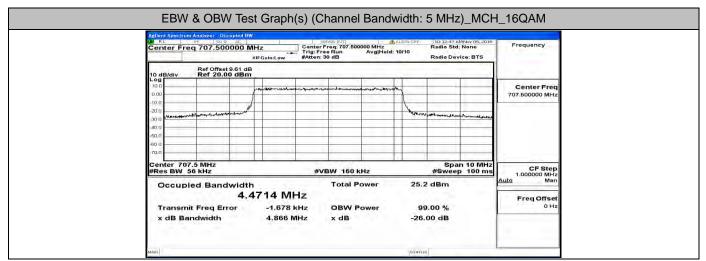


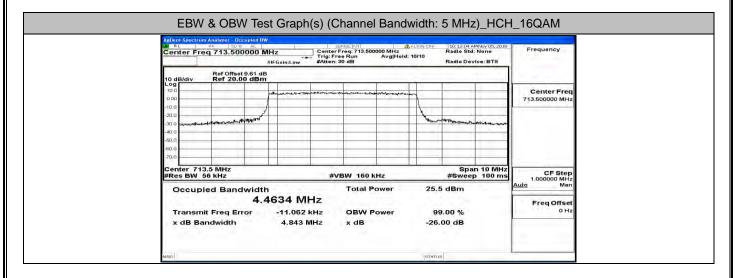


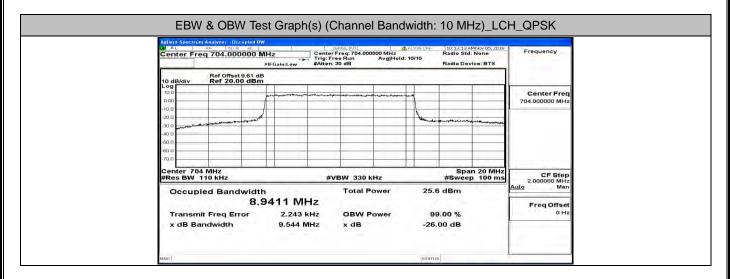


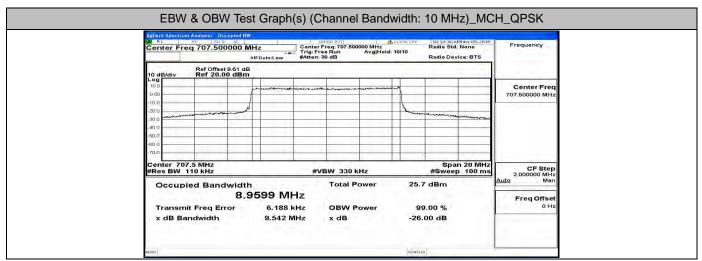


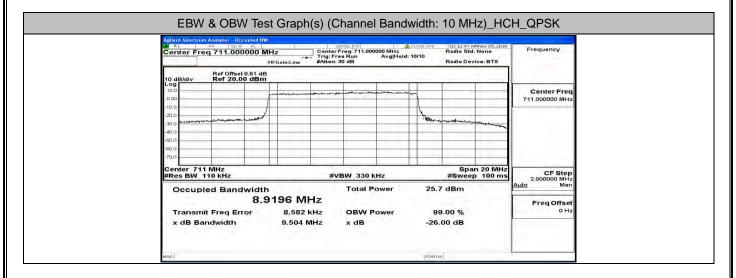


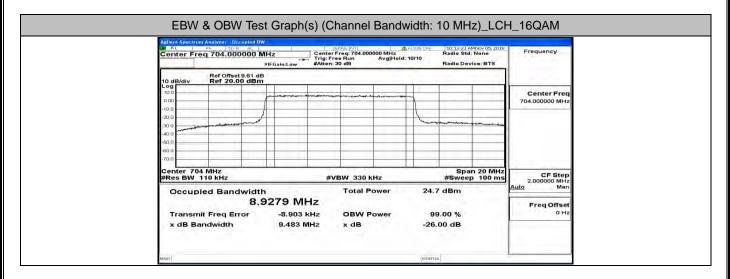


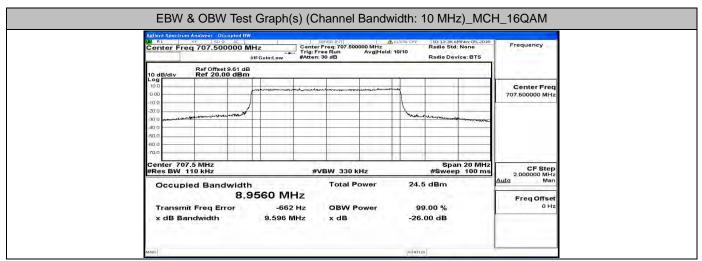


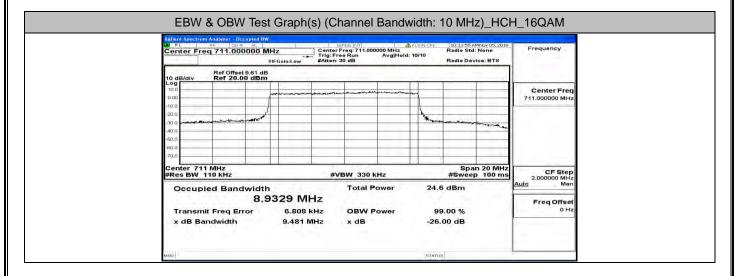




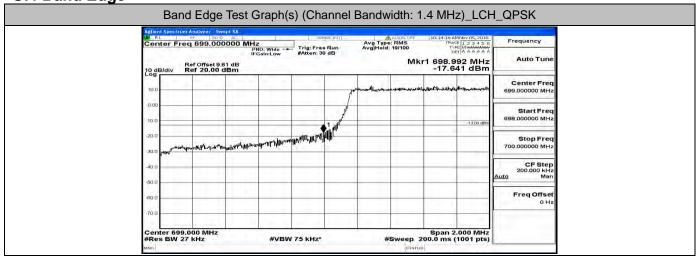


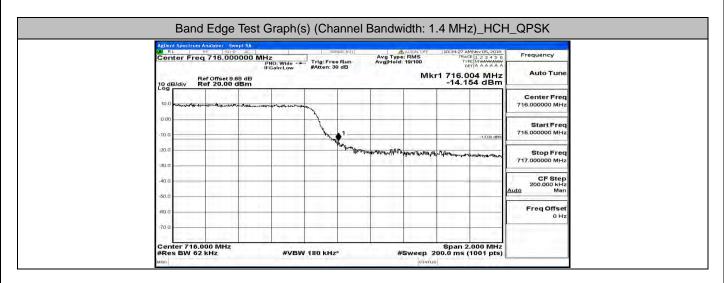


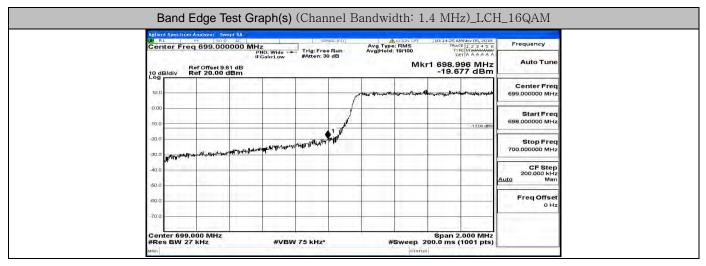


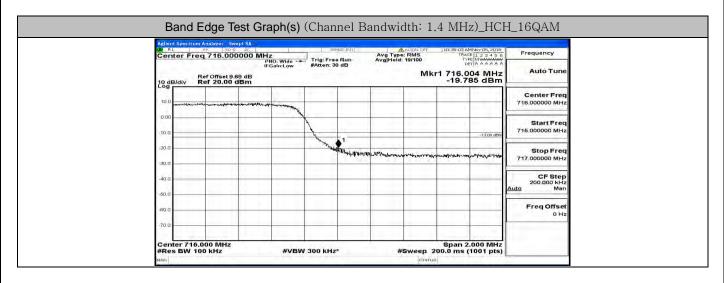


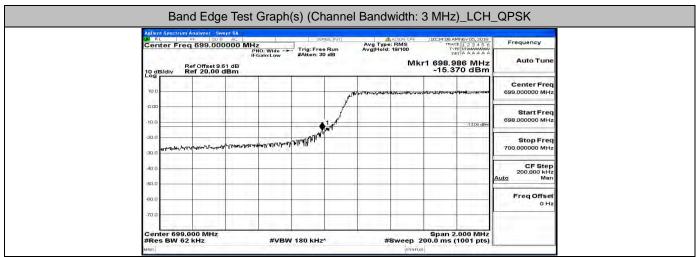
G.4 Band Edge

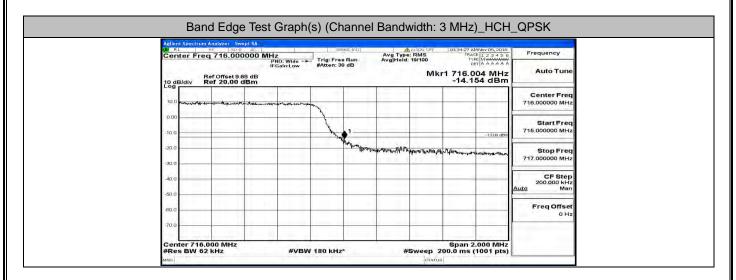


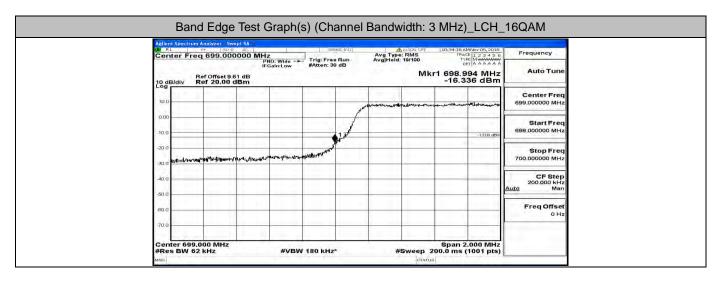


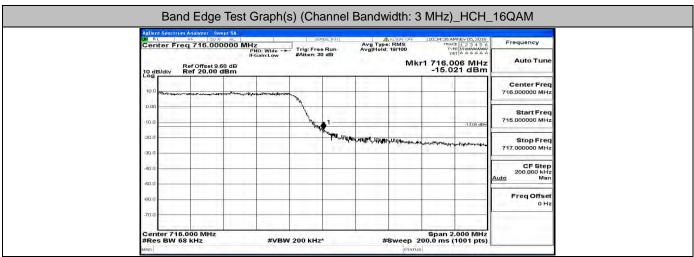


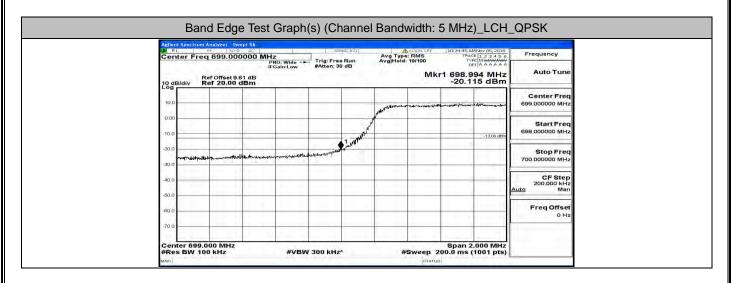


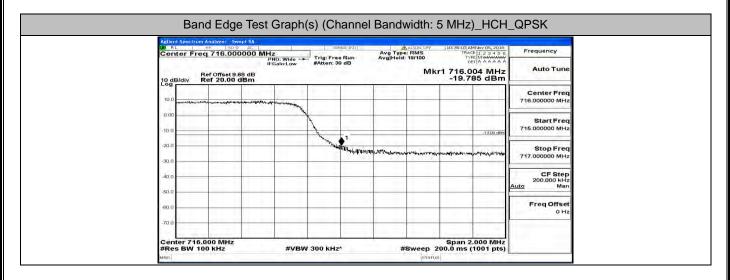


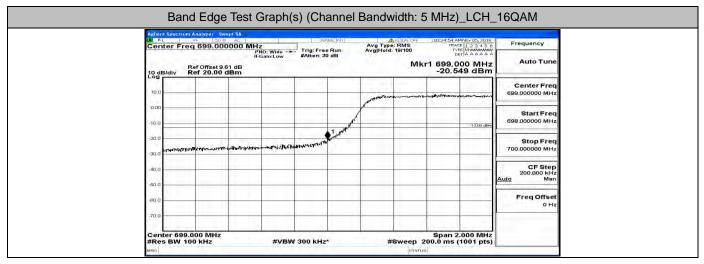


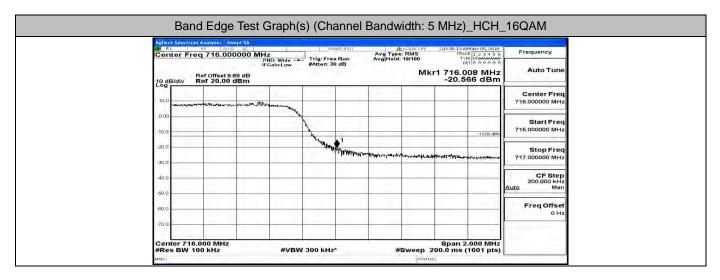


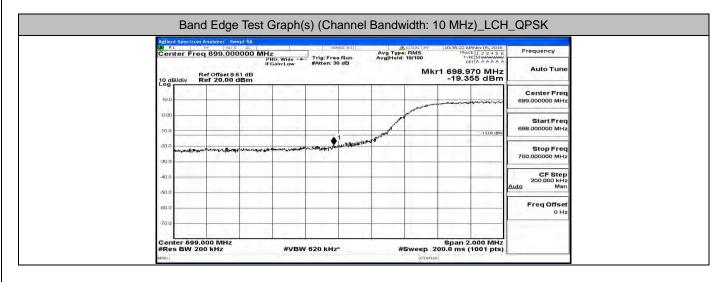


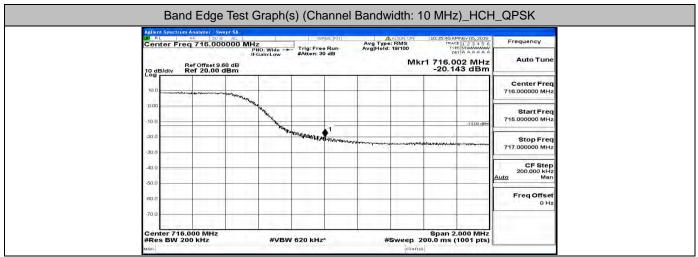


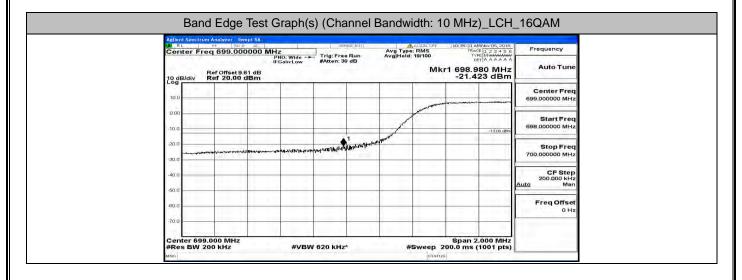


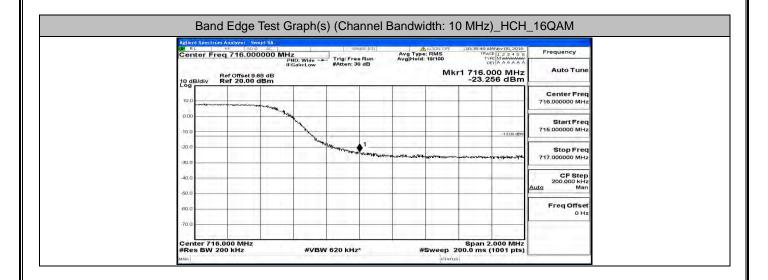












G.5 Conducted Spurious Emission

