## Appendix F: Test Data for E-UTRA Band 5

**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

## **F.1 Conducted Output Power**

		Conducted	Output Pow	ver Test Result (Channel Band	width: 1.4 MHz)	
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict
Modulation	Channel	Size	Offset	QPSK	16QAM	verdict
		1	0	24.07	24.37	PASS
		1	3	23.96	24.32	PASS
		1	5	24.04	24.35	PASS
	LCH	3	0	23.96	23.34	PASS
		3	2	23.98	23.37	PASS
		3	3	23.87	23.35	PASS
		6	0	22.96	21.92	PASS
		1	0	24.03	23.60	PASS
		1	3	24.14	23.54	PASS
QPSK /		1	5	24.16	23.54	PASS
16QAM	MCH	3	0	23.96	23.31	PASS
TOQAM		3	2	23.99	23.31	PASS
		3	3	23.98	23.22	PASS
		6	0	23.03	21.81	PASS
		1	0	23.72	22.99	PASS
		1	3	23.80	23.00	PASS
		1	5	23.84	23.06	PASS
	HCH	3	0	23.94	22.58	PASS
		3	2	23.92	22.53	PASS
		3	3	23.94	22.60	PASS
		6	0	22.77	21.91	PASS

	Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Vardiat	
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict	
		1	0	24.01	23.90	PASS	
		1	7	23.98	23.92	PASS	
		1	14	24.06	23.86	PASS	
	LCH	8	0	23.01	22.03	PASS	
		8	4	23.00	21.89	PASS	
		8	7	22.99	21.79	PASS	
		15	0	22.98	22.04	PASS	
		1	0	23.92	23.92	PASS	
		1	7	23.86	23.91	PASS	
ODCK /	мсн	1	14	23.85	23.93	PASS	
QPSK / 16QAM		8	0	23.03	21.86	PASS	
IOQAW		8	4	22.94	21.90	PASS	
		8	7	22.99	22.34	PASS	
		15	0	23.09	21.96	PASS	
		1	0	23.99	24.11	PASS	
		1	7	24.05	24.09	PASS	
		1	14	24.02	24.14	PASS	
	HCH	8	0	22.82	21.82	PASS	
		8	4	22.84	21.88	PASS	
		8	7	22.72	21.88	PASS	
		15	0	22.68	21.78	PASS	

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Vardiet
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	23.97	24.04	PASS
		1	24	24.02	23.98	PASS
		1	49	23.99	23.93	PASS
	LCH	25	0	23.13	21.75	PASS
		25	12	23.07	21.77	PASS
		25	25	23.06	21.85	PASS
		50	0	23.13	21.88	PASS
		1	0	24.00	23.81	PASS
		1	24	23.94	23.90	PASS
QPSK /	МСН	1	49	23.96	23.90	PASS
16QAM		25	0	23.16	22.05	PASS
IOQAW		25	12	23.03	22.06	PASS
		25	25	23.17	22.07	PASS
		50	0	23.01	21.98	PASS
		1	0	23.96	23.54	PASS
		1	24	23.98	23.51	PASS
		1	49	23.89	23.36	PASS
	HCH	25	0	23.04	22.12	PASS
		25	12	23.16	22.09	PASS
		25	25	22.89	21.88	PASS
		50	0	23.04	22.13	PASS

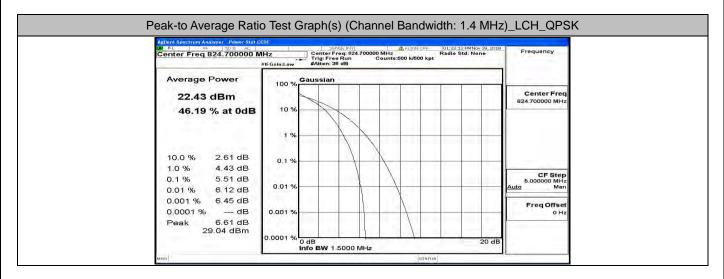
F.2 Peak-to-Average Ratio

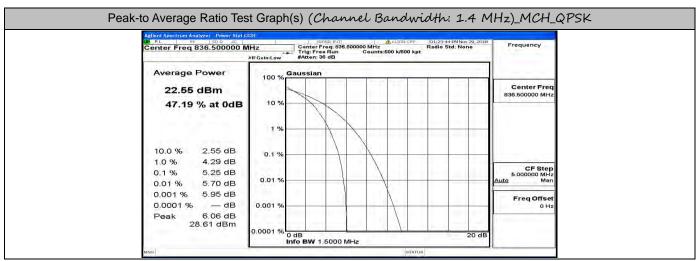
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict	
iviodulation	Channel	[dB]	[dB]	verdict	
QPSK	LCH	5.51	<13	PASS	
	MCH	5.25	<13	PASS	
	HCH	4.98	<13	PASS	
16QAM	LCH	6.49	<13	PASS	
	MCH	6.29	<13	PASS	
	HCH	5.94	<13	PASS	

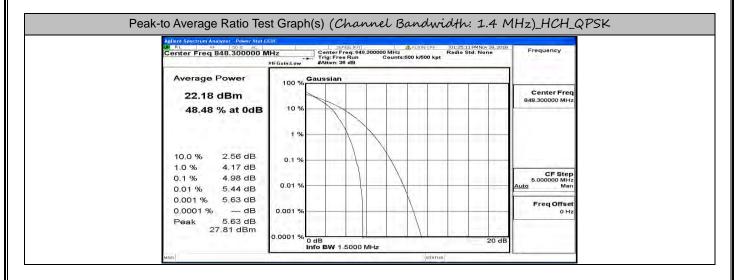
Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
Modulation	Griannei	[dB]	[dB]	verdict		
	LCH	5.5	<13	PASS		
QPSK	MCH	5.38	<13	PASS		
	HCH	5.22	<13	PASS		
16QAM	LCH	6.55	<13	PASS		
	MCH	6.35	<13	PASS		
	HCH	6.02	<13	PASS		

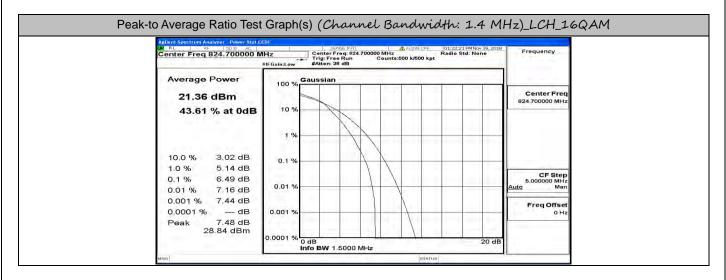
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict	
Modulation	Charmer	[dB]	[dB]	verdict	
	LCH	5.48	<13	PASS	
QPSK	MCH	5.28	<13	PASS	
	HCH	5.22	<13	PASS	
16QAM	LCH	6.42	<13	PASS	
	MCH	6.16	<13	PASS	
	HCH	6.04	<13	PASS	

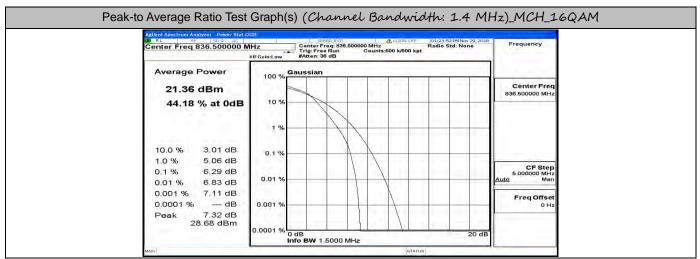
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict	
Modulation	Griannei	[dB]	[dB]	verdict	
	LCH	5.52	<13	PASS	
QPSK	MCH	5.45	<13	PASS	
	HCH	5.43	<13	PASS	
	LCH	6.31	<13	PASS	
16QAM	MCH	6.18	<13	PASS	
	HCH	6.18	<13	PASS	

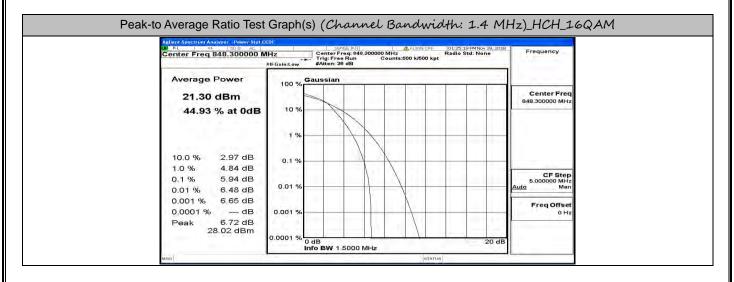


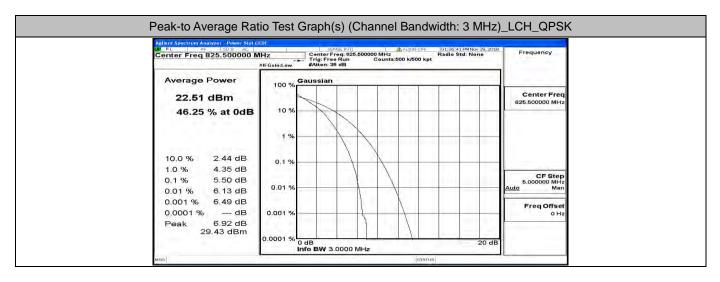


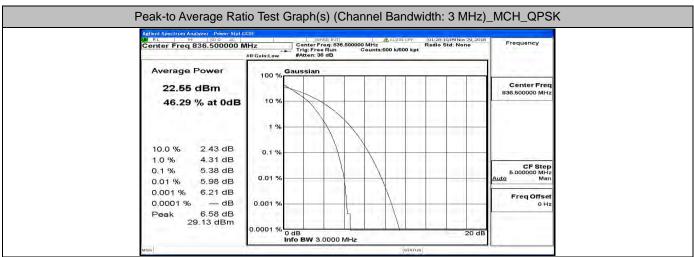


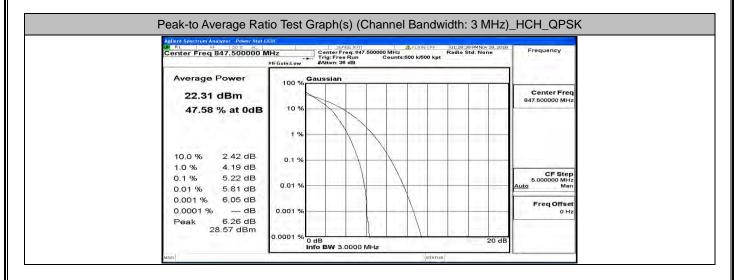


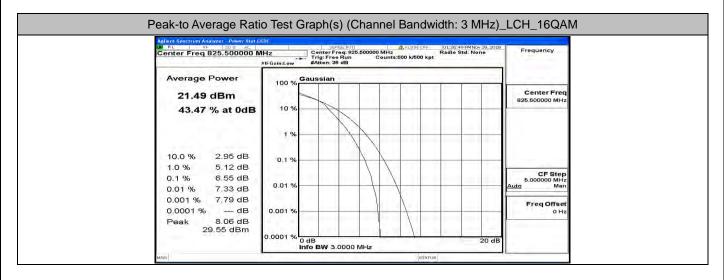


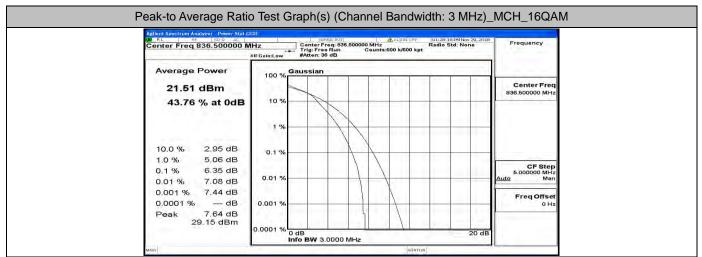


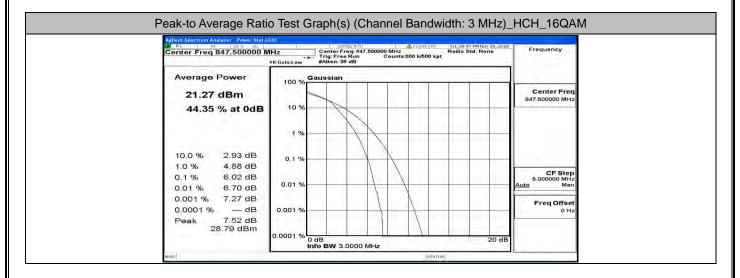


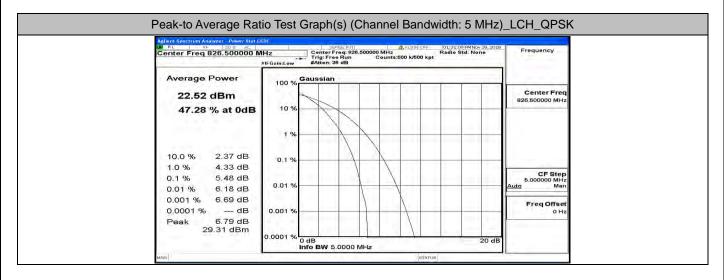


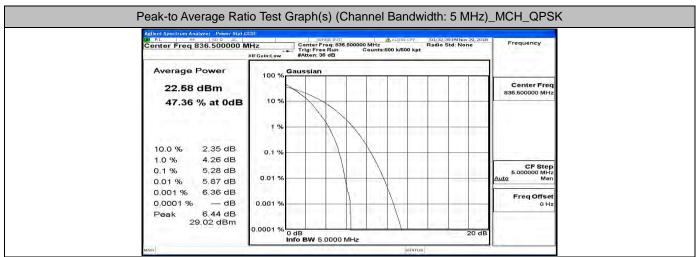


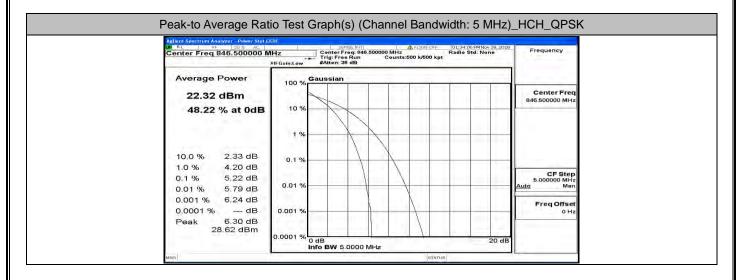


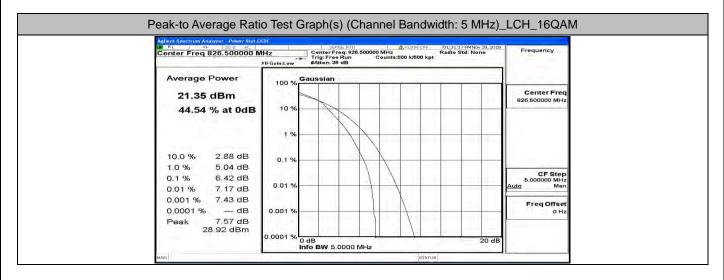


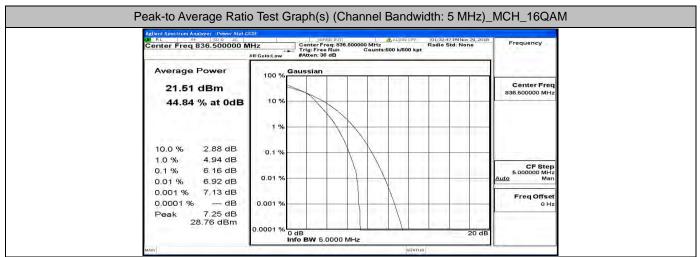


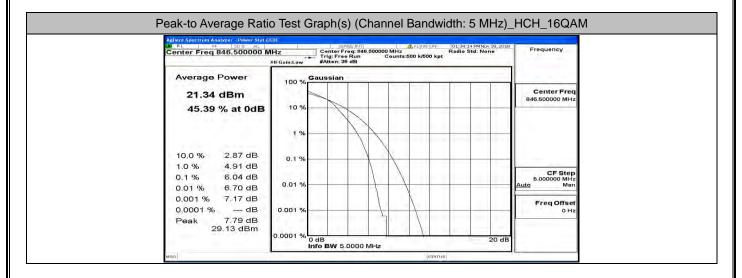


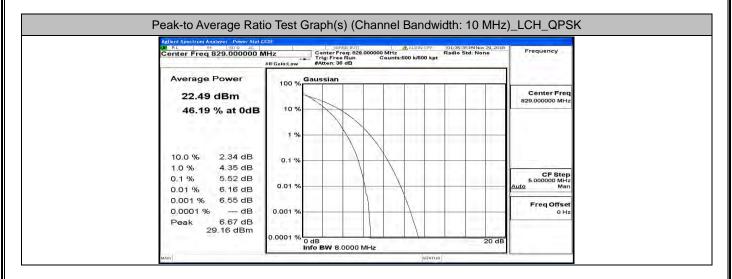


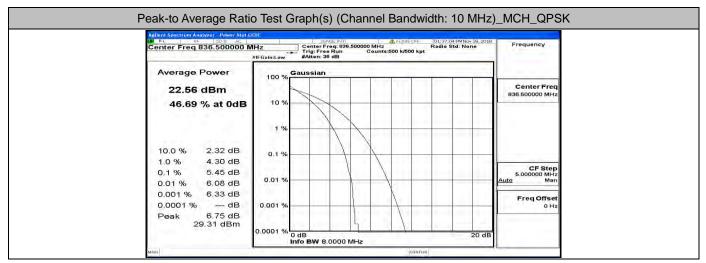


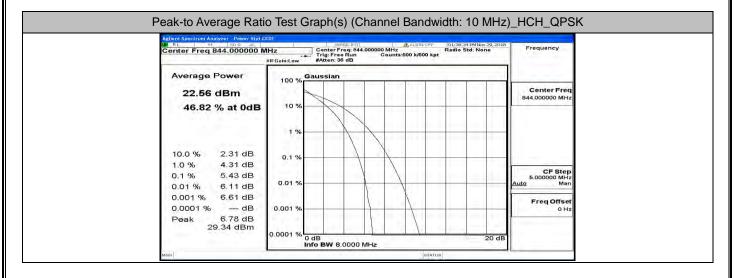


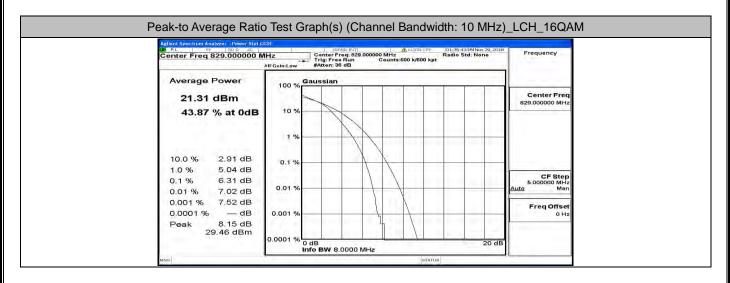


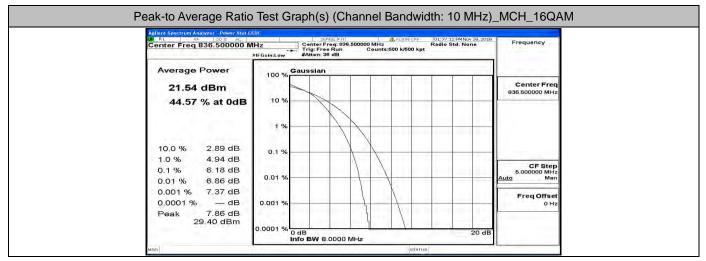


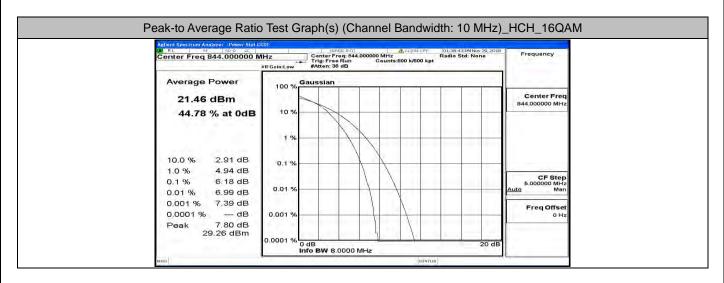












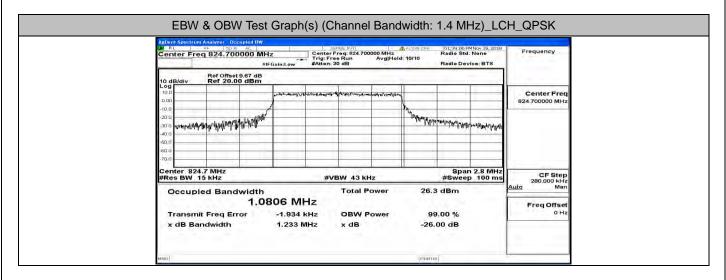
F.3 26dB Bandwidth and Occupied Bandwidth

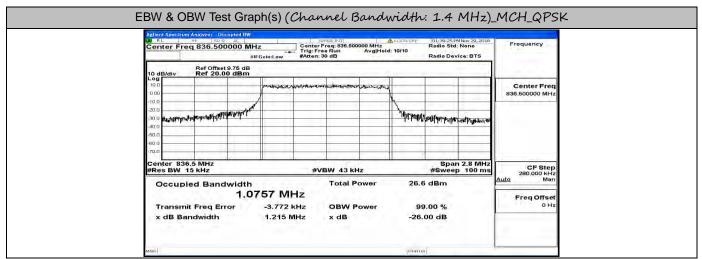
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
iviodulation	Griannei	(MHz)	(MHz)	verdict	
QPSK	LCH	1.0806	1.233	PASS	
	MCH	1.0757	1.215	PASS	
	HCH	1.0777	1.212	PASS	
16QAM	LCH	1.0806	1.210	PASS	
	MCH	1.0786	1.233	PASS	
	HCH	1.0791	1.237	PASS	

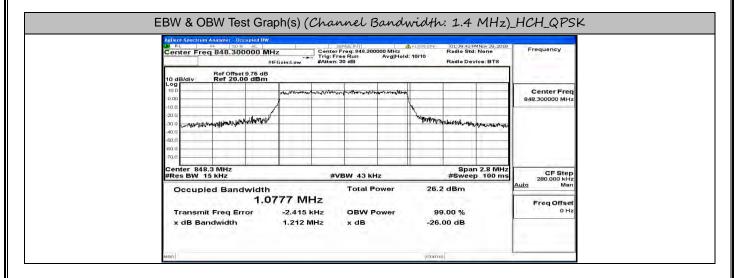
EBW & OBW Test Result (Channel Bandwidth: 3 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation	Griannei	(MHz)	(MHz)	verdict	
QPSK	LCH	2.6871	2.958	PASS	
	MCH	2.6841	2.949	PASS	
	HCH	2.6853	2.961	PASS	
16QAM	LCH	2.6832	2.986	PASS	
	MCH	2.6837	2.928	PASS	
	HCH	2.6862	2.996	PASS	

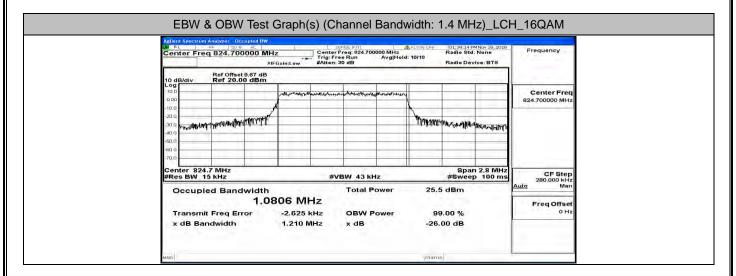
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation	Griannei	(MHz)	(MHz)	verdict	
QPSK	LCH	4.4724	4.789	PASS	
	MCH	4.4721	4.779	PASS	
	HCH	4.4701	4.847	PASS	
16QAM	LCH	4.4651	4.836	PASS	
	MCH	4.4738	4.839	PASS	
	HCH	4.4716	4.915	PASS	

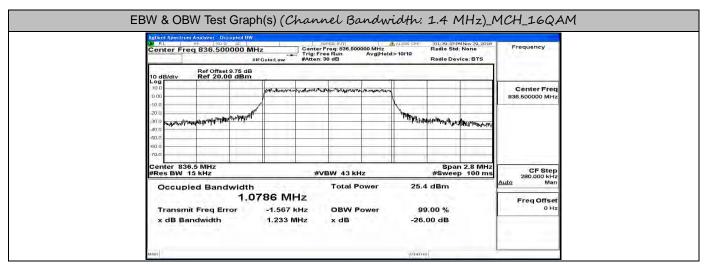
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation	Griannei	(MHz)	(MHz)	verdict	
QPSK	LCH	8.9316	9.485	PASS	
	MCH	8.9260	9.459	PASS	
	HCH	8.9350	9.482	PASS	
16QAM	LCH	8.9444	9.562	PASS	
	MCH	8.9206	9.495	PASS	
	HCH	8.9512	9.544	PASS	

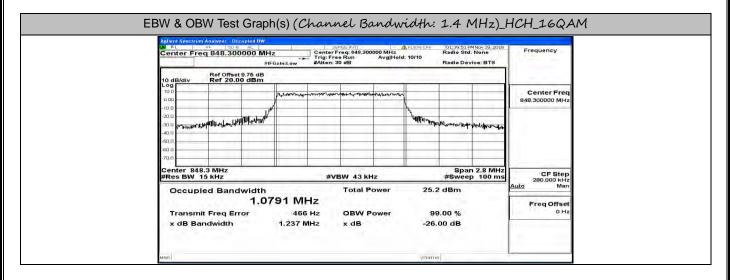


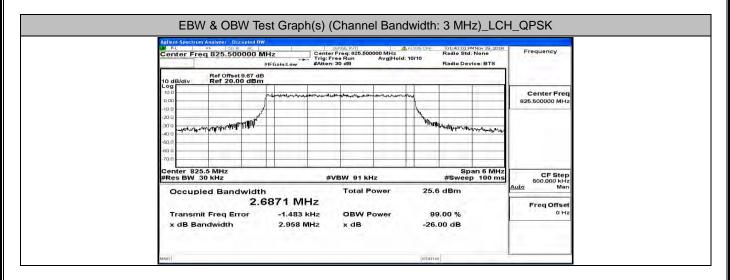


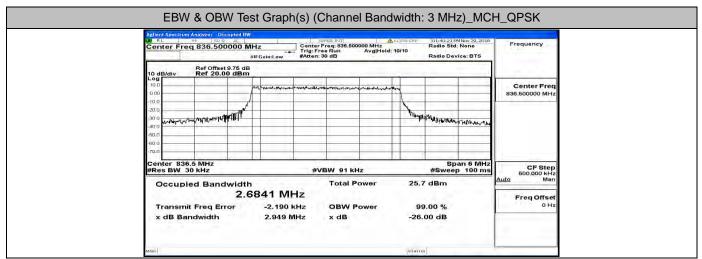


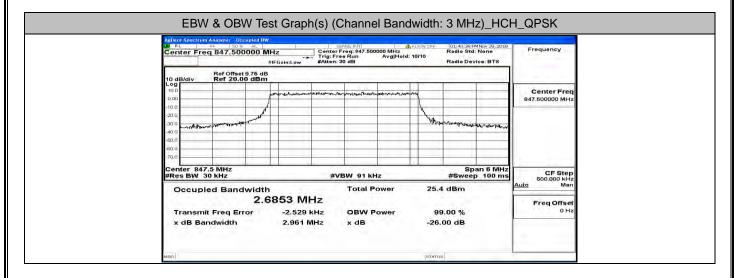


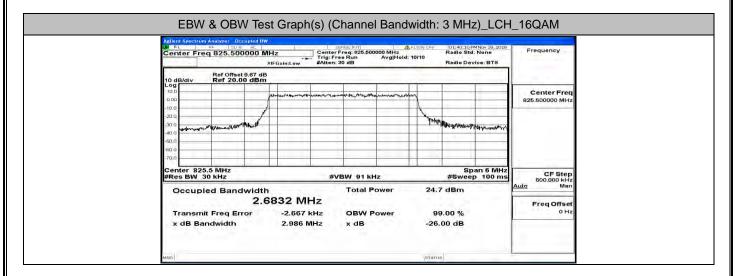


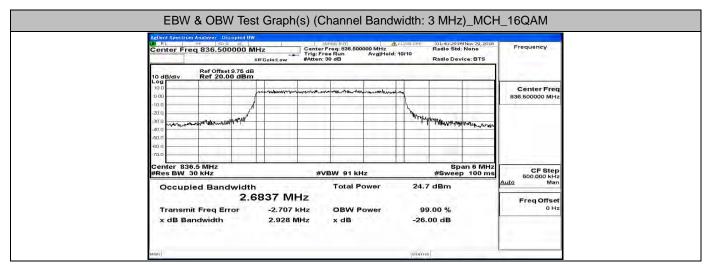


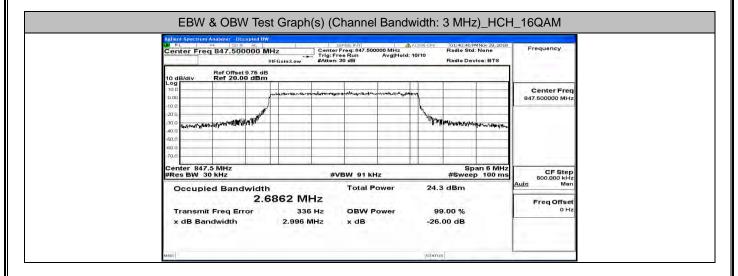


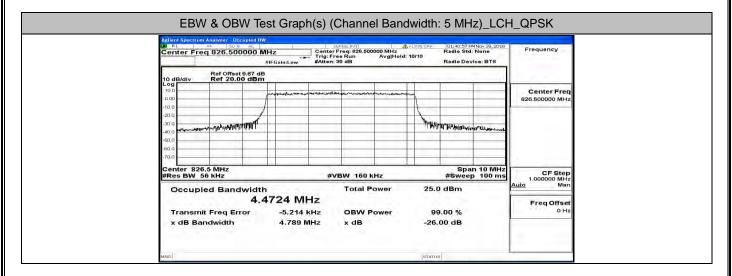


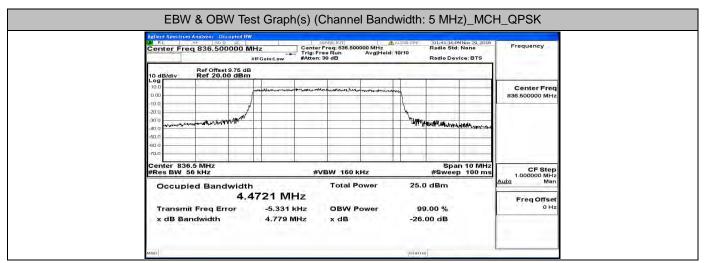


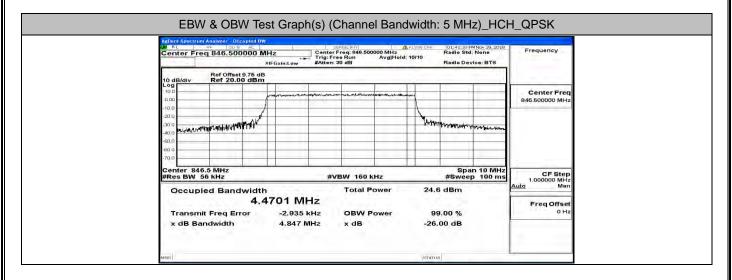


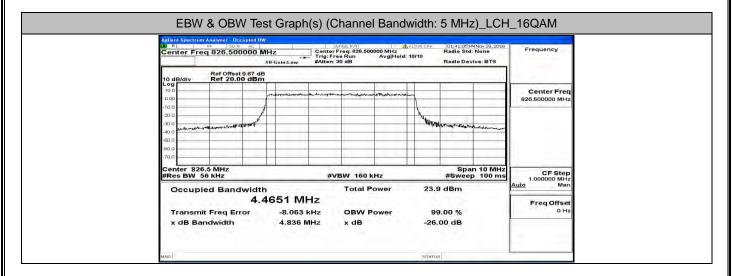


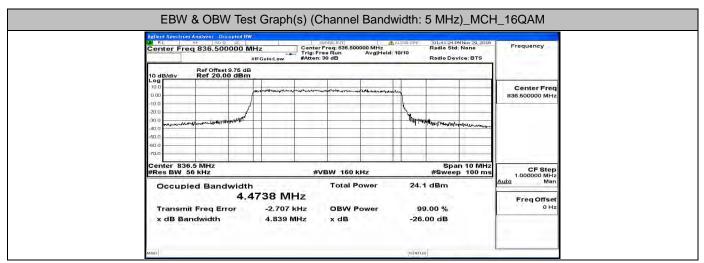


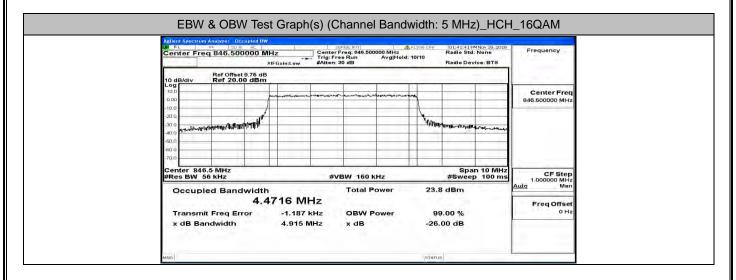


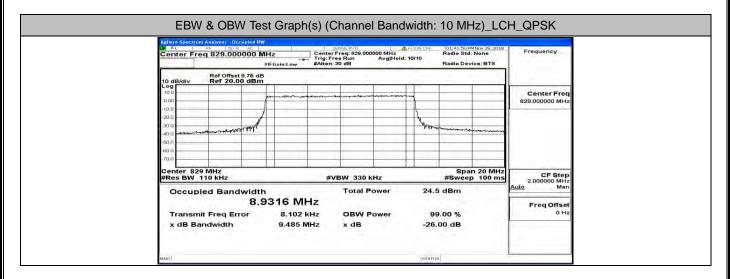


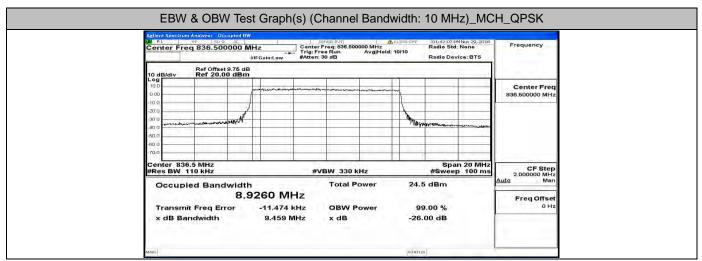


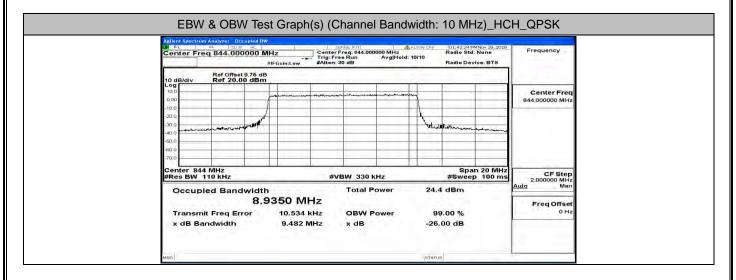


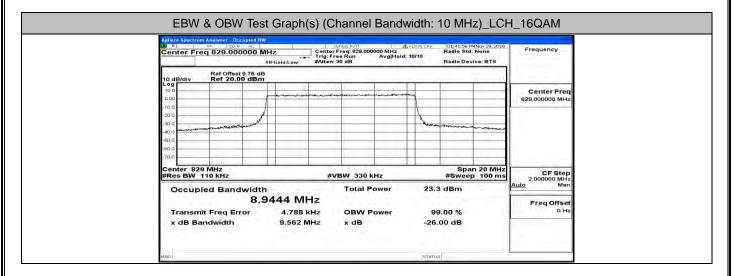


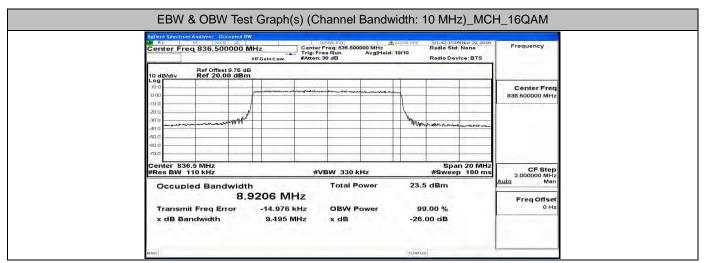


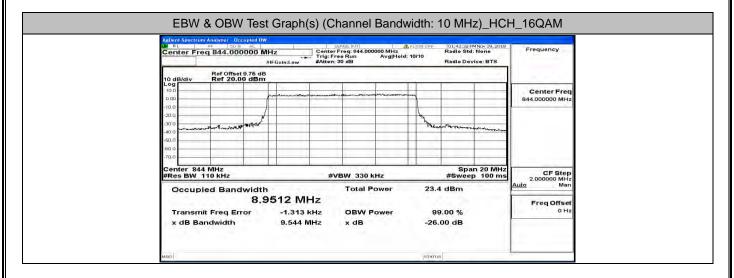




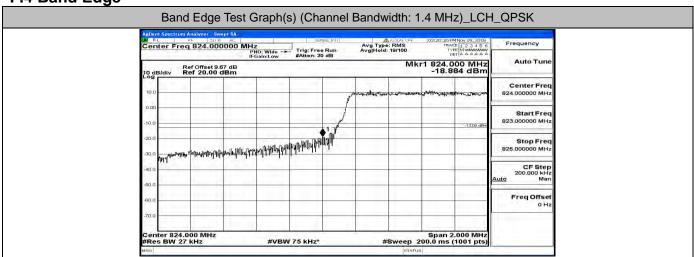


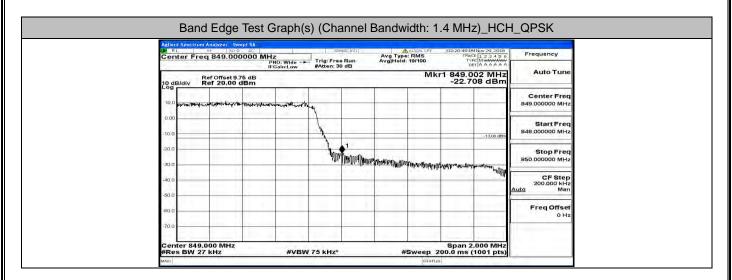


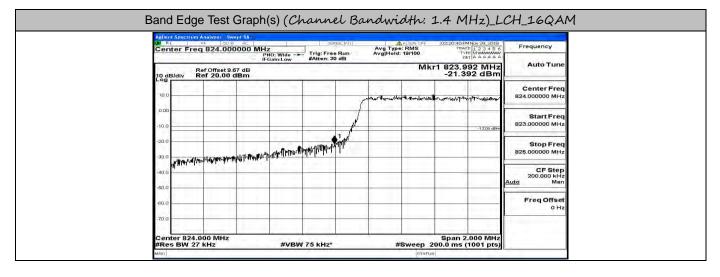


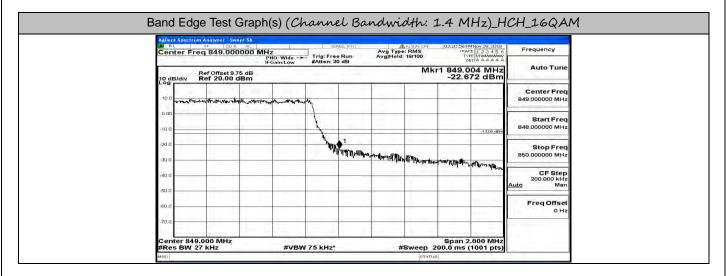


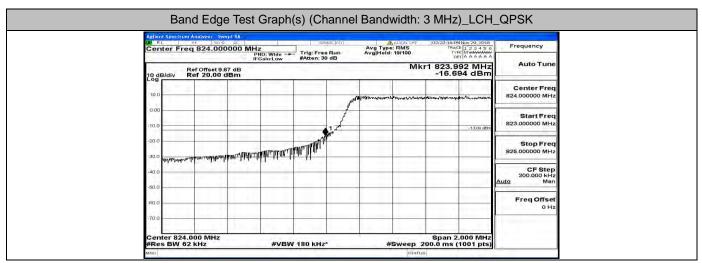
F.4 Band Edge

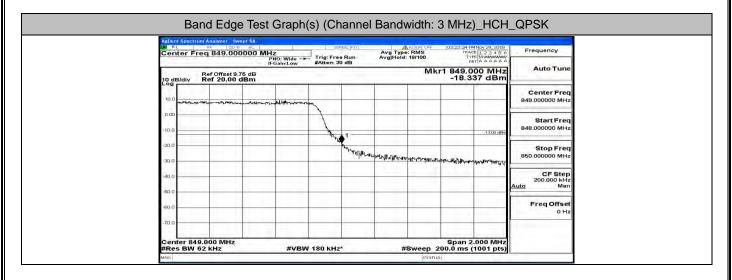


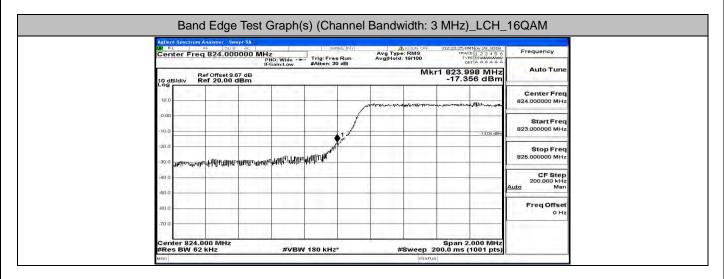


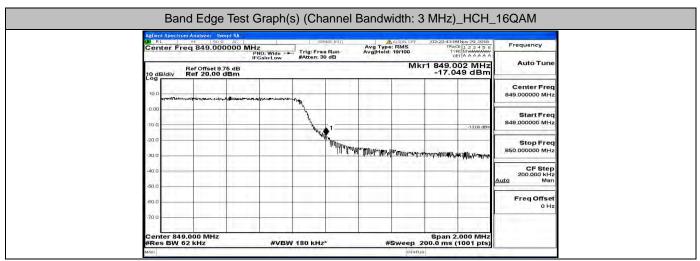


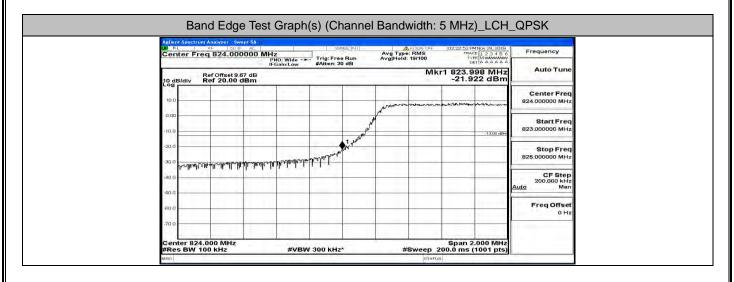


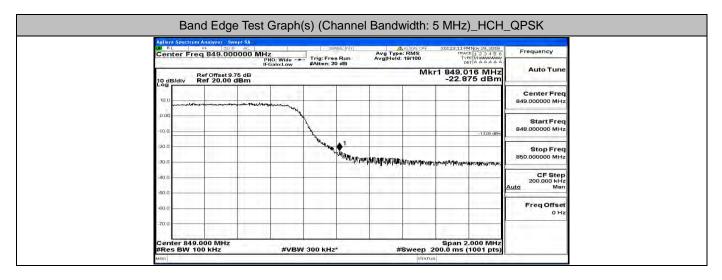


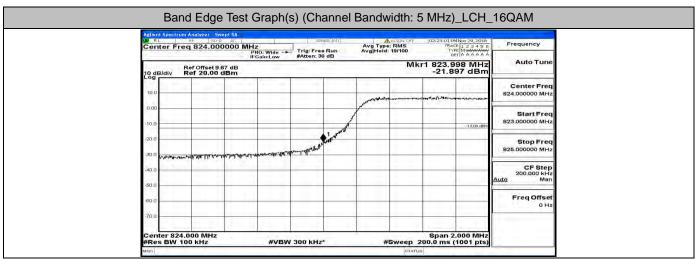


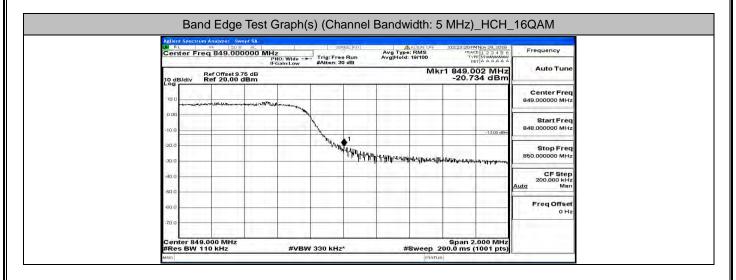


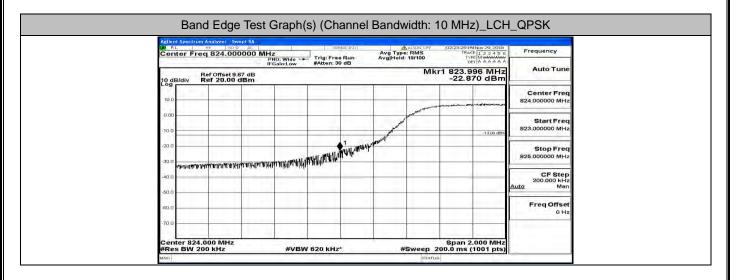


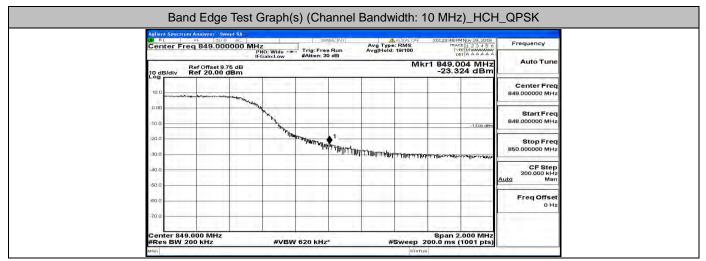


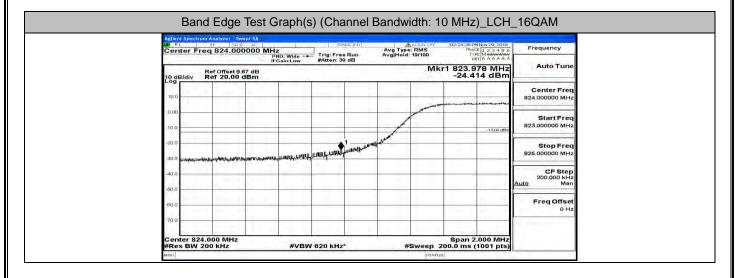


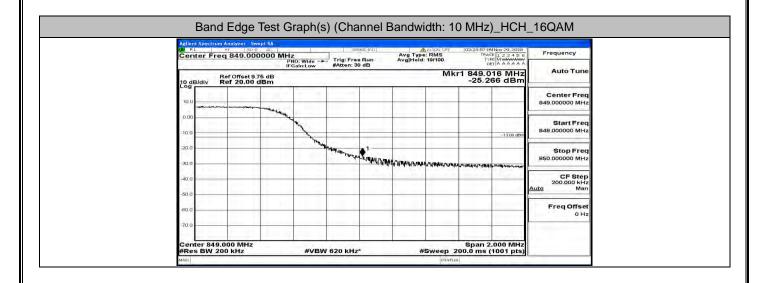












## F.5 Conducted Spurious Emission

