Appendix D: Test Data for E-UTRA Band 12

Product Name: Portable Data Collector

Trade Mark: Newland Test Model: NLS-NFT10

Environmental Conditions

Temperature:	24.5 ° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	WANGCHUANG
Supervised by:	TOM.LIU

A.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	
Modulation	Charmer	Size	Offset	QPSK	16QAM	verdict	
		1	0	23.39	22.78	PASS	
		1	3	23.39	22.79	PASS	
		1	5	23.43	22.66	PASS	
	LCH	3	0	23.31	22.67	PASS	
		3	2	23.60	22.73	PASS	
		3	3	23.42	22.59	PASS	
		6	0	22.49	21.59	PASS	
		1	0	23.42	22.88	PASS	
	мсн	1	3	23.51	23.05	PASS	
ODCK /		1	5	23.52	22.91	PASS	
QPSK / 16QAM		3	0	23.42	22.41	PASS	
IOQAW		3	2	23.49	22.58	PASS	
		3	3	23.43	22.58	PASS	
		6	0	22.50	21.40	PASS	
		1	0	23.79	22.96	PASS	
		1	3	24.06	23.09	PASS	
		1	5	24.04	23.65	PASS	
	HCH	3	0	23.86	22.87	PASS	
		3	2	23.88	22.95	PASS	
		3	3	23.90	22.90	PASS	
		6	0	22.82	21.97	PASS	

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Vardiet
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	23.48	22.78	PASS
		1	7	23.38	22.85	PASS
		1	14	23.25	22.57	PASS
	LCH	8	0	22.60	21.59	PASS
		8	4	22.39	21.53	PASS
		8	7	22.37	21.41	PASS
		15	0	22.53	21.36	PASS
		1	0	23.45	22.78	PASS
	МСН	1	7	23.57	22.79	PASS
QPSK /		1	14	23.54	22.94	PASS
16QAM		8	0	22.43	21.45	PASS
TOQAIVI		8	4	22.42	21.57	PASS
		8	7	22.50	21.56	PASS
		15	0	22.52	21.47	PASS
		1	0	23.74	22.97	PASS
		1	7	23.67	22.91	PASS
		1	14	23.97	23.20	PASS
	HCH	8	0	22.69	21.69	PASS
		8	4	22.72	21.78	PASS
		8	7	22.89	21.79	PASS
		15	0	22.77	21.83	PASS

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/a ==li =4
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	23.54	22.96	PASS
		1	12	23.31	22.63	PASS
		1	24	22.79	22.05	PASS
	LCH	12	0	22.54	21.72	PASS
		12	6	22.44	21.55	PASS
		12	13	22.39	21.56	PASS
		25	0	22.46	21.46	PASS
		1	0	23.47	22.88	PASS
	МСН	1	12	23.45	22.86	PASS
QPSK /		1	24	23.66	22.98	PASS
16QAM		12	0	22.54	21.66	PASS
TOQAW		12	6	22.42	21.63	PASS
		12	13	22.60	21.69	PASS
		25	0	22.49	21.50	PASS
		1	0	23.80	22.86	PASS
		1	12	23.59	22.58	PASS
		1	24	23.78	22.80	PASS
	HCH	12	0	22.71	21.74	PASS
		12	6	22.73	21.67	PASS
		12	13	22.83	21.89	PASS
		25	0	22.83	21.79	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Vardiet
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	23.77	23.08	PASS
		1	24	23.26	22.24	PASS
		1	49	23.60	22.79	PASS
	LCH	25	0	22.44	21.43	PASS
		25	12	22.38	21.38	PASS
		25	25	22.43	21.49	PASS
		50	0	22.52	21.53	PASS
		1	0	23.52	23.00	PASS
	МСН	1	24	23.48	22.81	PASS
QPSK /		1	49	23.81	23.02	PASS
16QAM		25	0	22.47	21.52	PASS
TOQAM		25	12	22.51	21.50	PASS
		25	25	22.68	21.60	PASS
		50	0	22.47	21.51	PASS
		1	0	23.65	23.06	PASS
		1	24	24.26	23.57	PASS
		1	49	23.12	22.67	PASS
	HCH	25	0	22.60	21.61	PASS
		25	12	22.70	21.81	PASS
		25	25	22.65	21.71	PASS
_		50	0	22.76	21.70	PASS

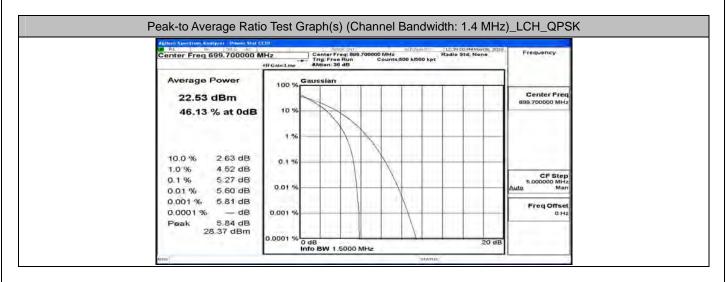
A.2 Peak-to-Average Ratio

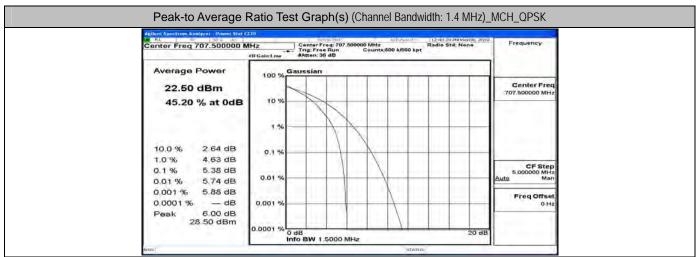
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict	
Modulation	Grianner	[dB]	[dB]	verdict	
	LCH	5.27	<13	PASS	
QPSK	MCH	5.38	<13	PASS	
	HCH	4.77	<13	PASS	
	LCH	6.16	<13	PASS	
16QAM	MCH	6.28	<13	PASS	
	HCH	5.57	<13	PASS	

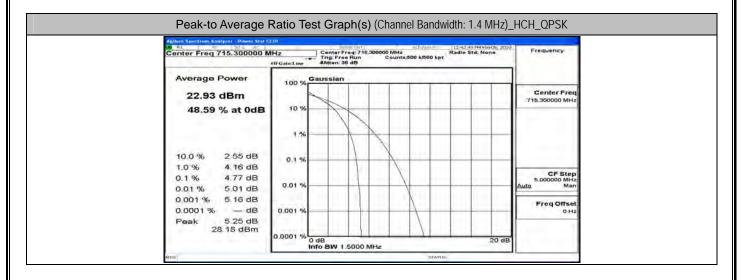
Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channal	Peak-to-Average Ratio	Limit	Verdict		
Modulation	Channel	[dB]	[dB]	verdict		
	LCH	5.08	<13	PASS		
QPSK	MCH	5.45	<13	PASS		
	HCH	4.8	<13	PASS		
16QAM	LCH	5.99	<13	PASS		
	MCH	6.32	<13	PASS		
	HCH	5.56	<13	PASS		

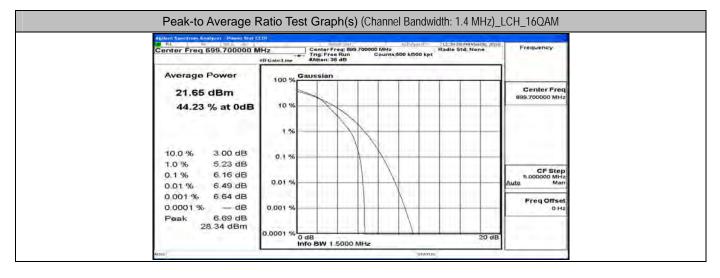
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
iviodulation	Grianner	[dB]	[dB]	verdict		
	LCH	4.83	<13	PASS		
QPSK	MCH	5.36	<13	PASS		
	HCH	4.77	<13	PASS		
	LCH	5.68	<13	PASS		
16QAM	MCH	6.15	<13	PASS		
	HCH	5.63	<13	PASS		

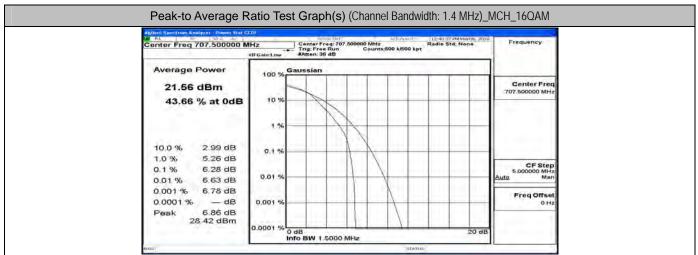
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
Modulation	Charine	[dB]	[dB]	verdict		
	LCH	5.11	<13	PASS		
QPSK	MCH	5.33	<13	PASS		
	HCH	4.93	<13	PASS		
	LCH	5.84	<13	PASS		
16QAM	MCH	6.04	<13	PASS		
	HCH	5.79	<13	PASS		

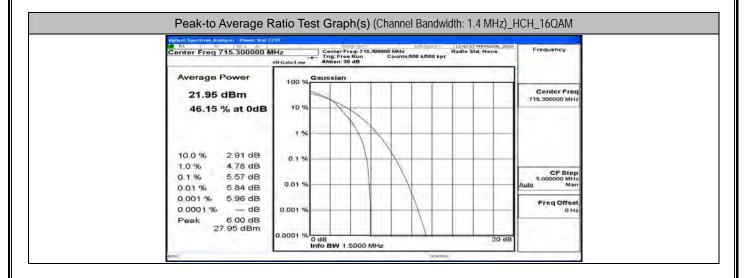


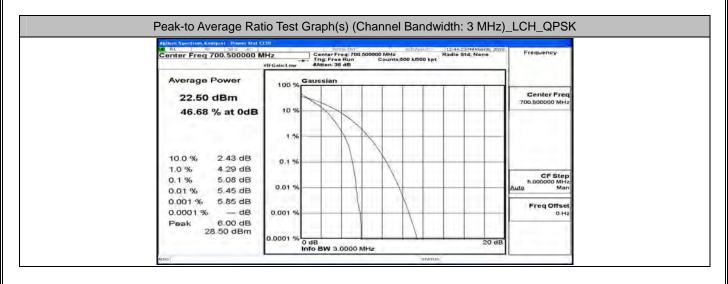


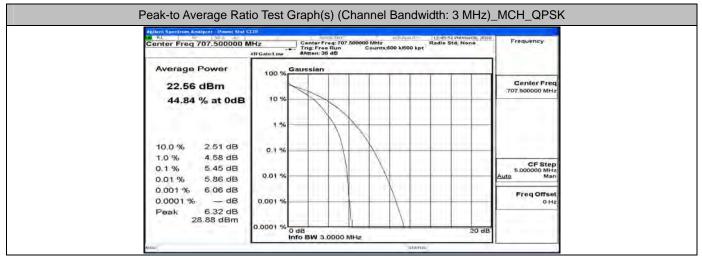


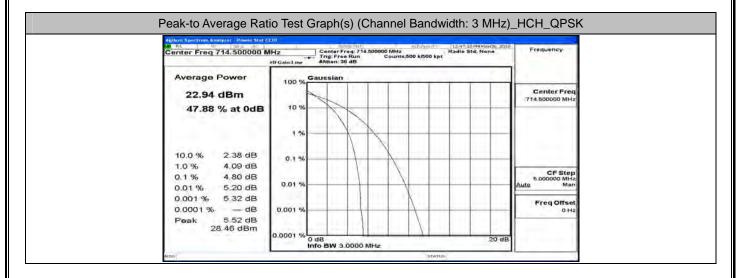


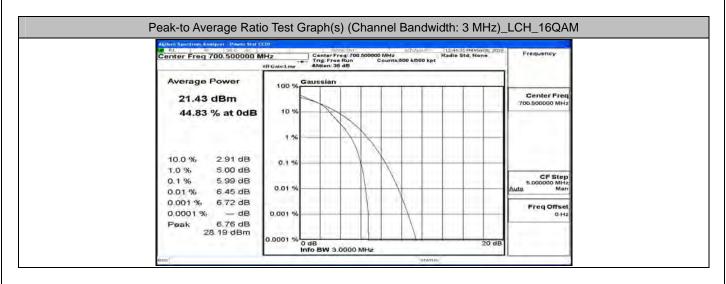


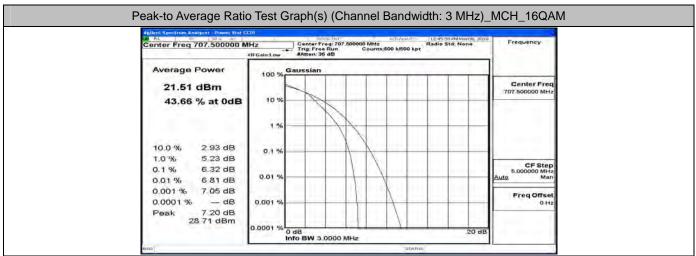


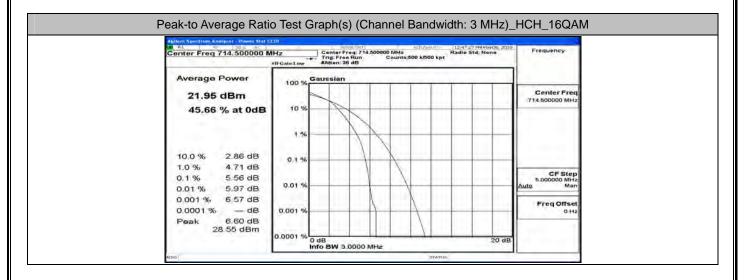


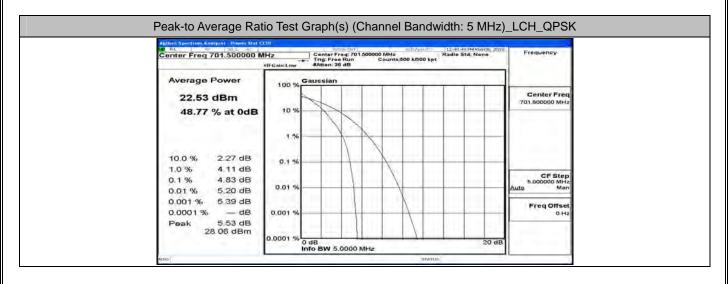


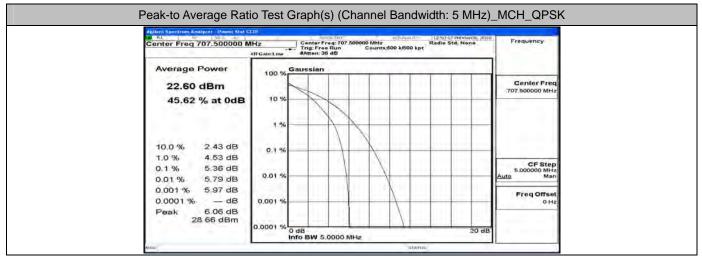


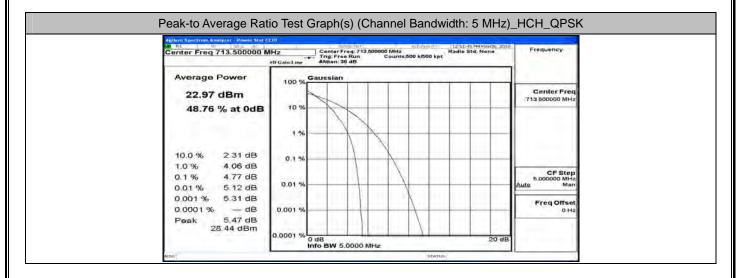


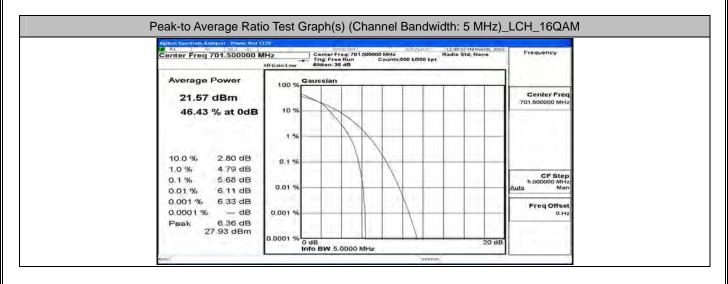


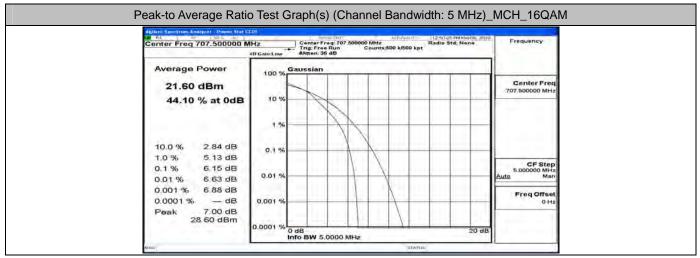


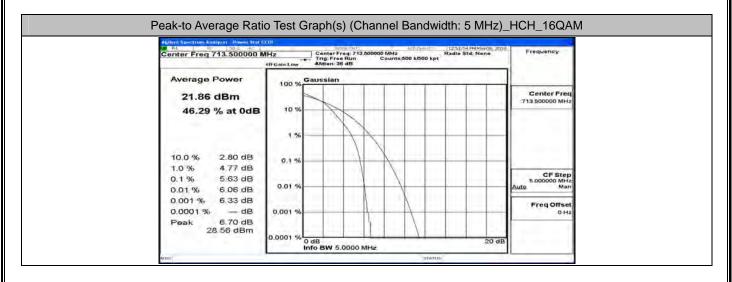


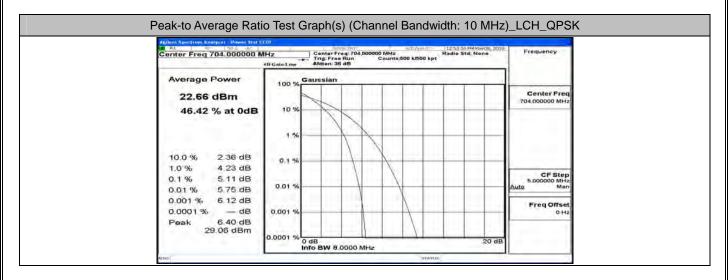


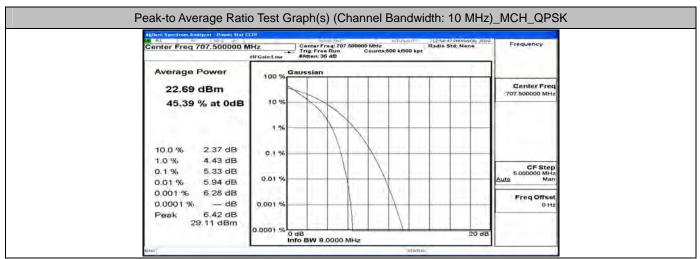


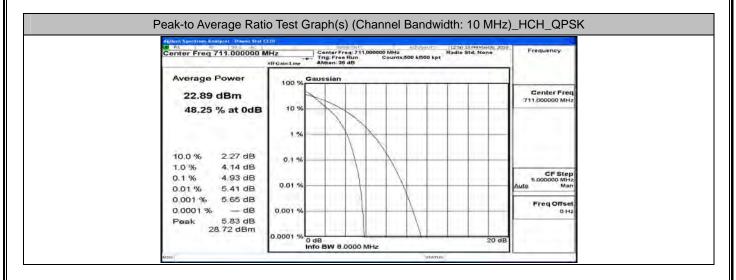


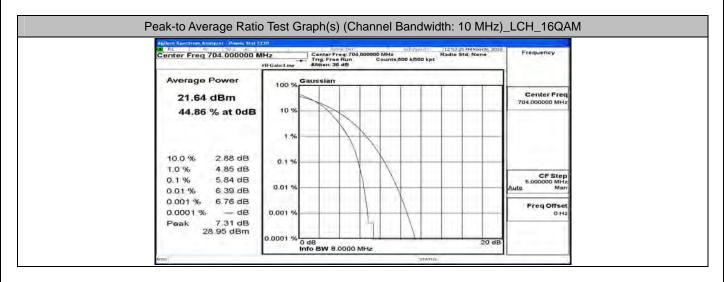


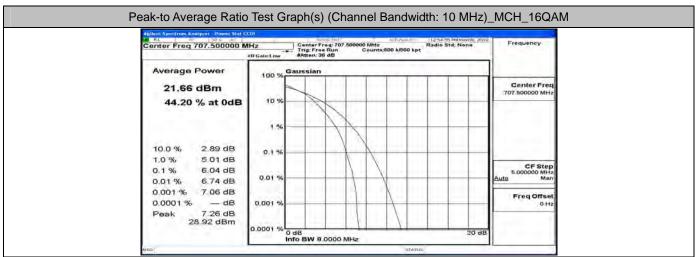


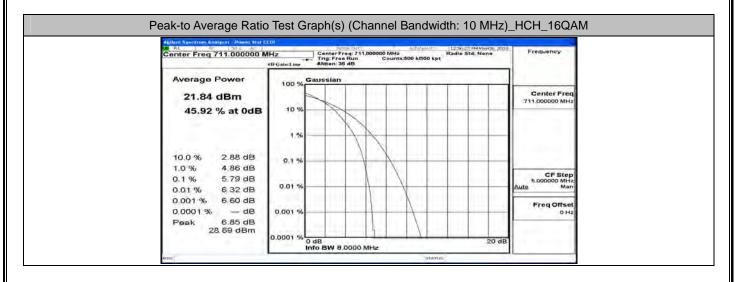












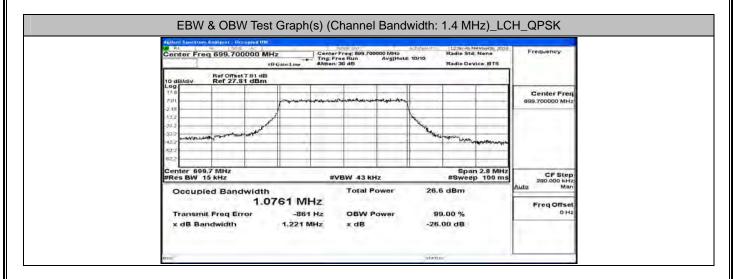
A.3 26dB Bandwidth and Occupied Bandwidth

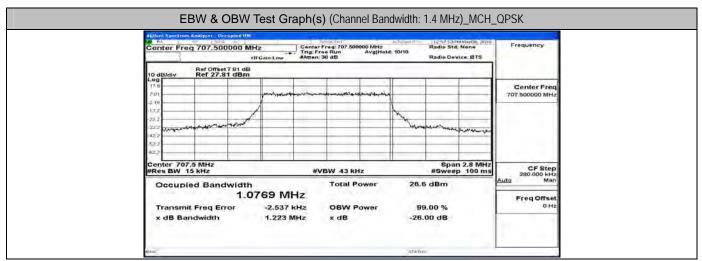
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict		
Modulation	Charine	(MHz)	(MHz)	verdict		
	LCH	1.0761	1.221	PASS		
QPSK	MCH	1.0769	1.223	PASS		
	HCH	1.0792	1.222	PASS		
16QAM	LCH	1.0800	1.238	PASS		
	MCH	1.0776	1.232	PASS		
	HCH	1.0758	1.237	PASS		

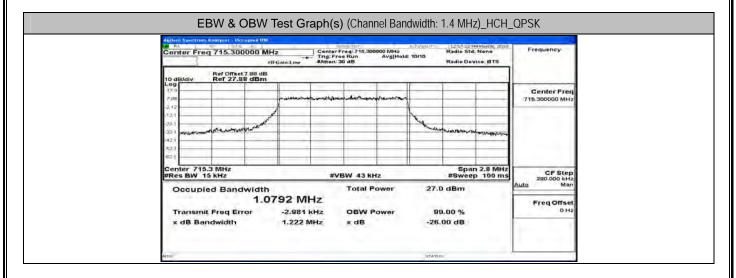
	EBW & OBW Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict			
	LCH	2.6763	2.890	PASS			
QPSK	MCH	2.6870	2.896	PASS			
	HCH	2.6846	2.899	PASS			
16QAM	LCH	2.6812	2.876	PASS			
	MCH	2.6861	2.918	PASS			
	HCH	2.6886	2.894	PASS			

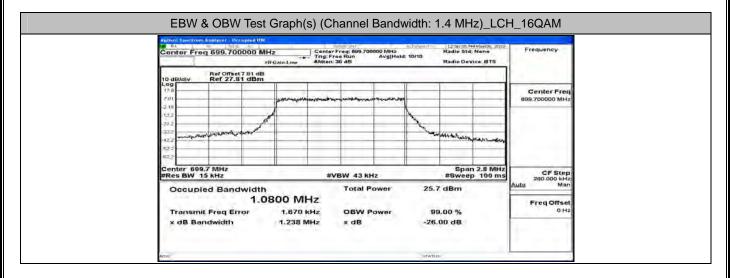
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict		
Iviodulation	Channel	(MHz)	(MHz)	verdict		
	LCH	4.4727	4.744	PASS		
QPSK	MCH	4.4756	4.806	PASS		
	HCH	4.4668	4.761	PASS		
	LCH	4.4537	4.798	PASS		
16QAM	MCH	4.4822	4.814	PASS		
	HCH	4.4652	4.777	PASS		

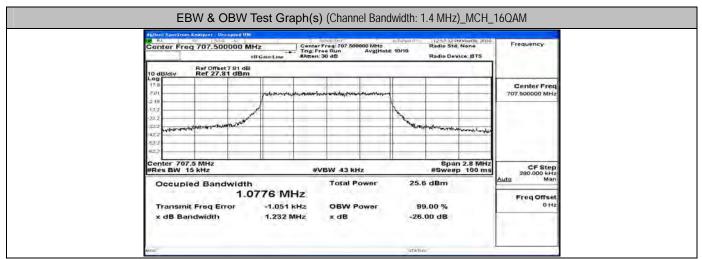
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
		(MHz)	(MHz)	
QPSK	LCH	8.9174	9.401	PASS
	MCH	8.9623	9.572	PASS
	HCH	8.9179	9.412	PASS
16QAM	LCH	8.9263	9.435	PASS
	MCH	8.9555	9.539	PASS
	HCH	8.9212	9.416	PASS

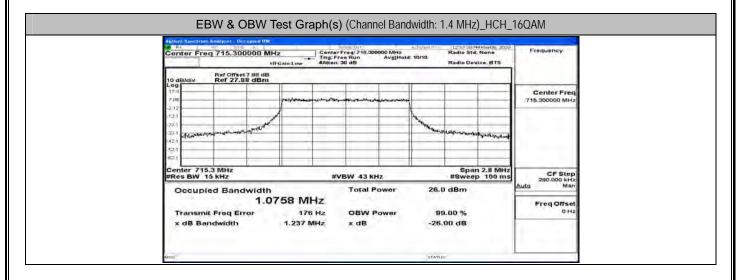


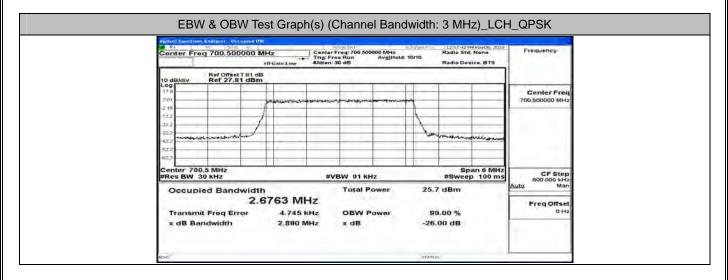


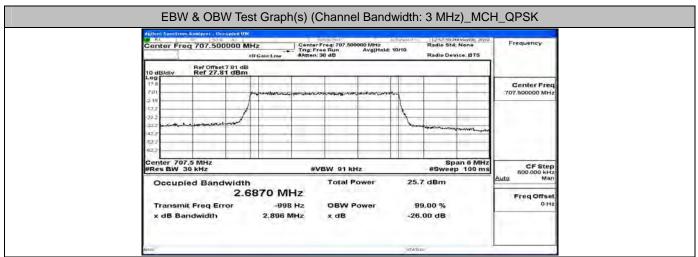


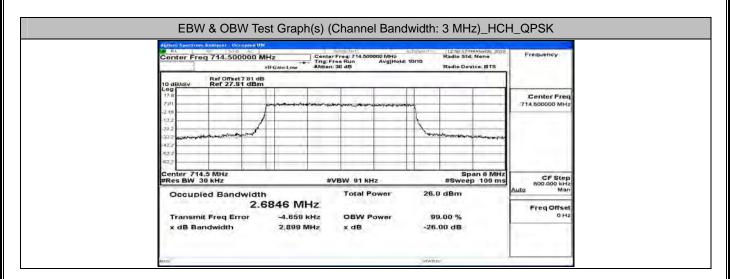


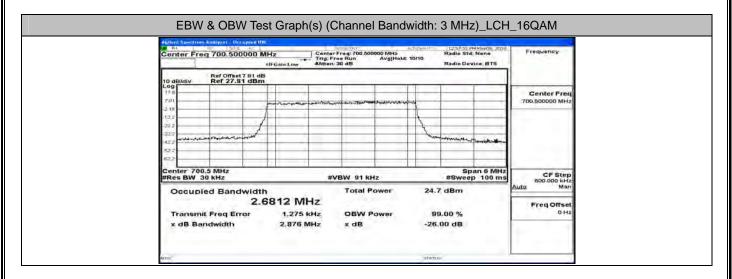


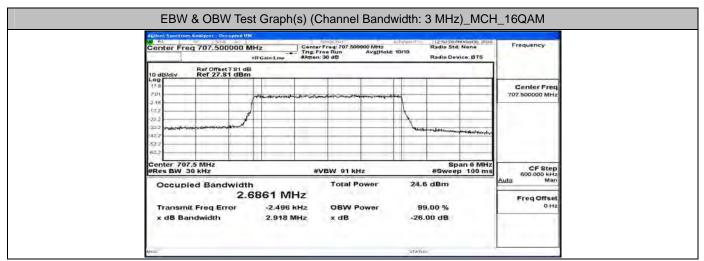


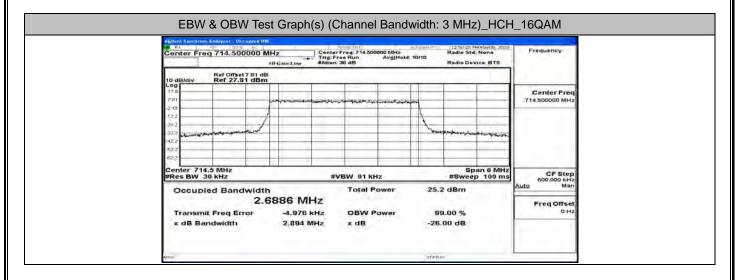


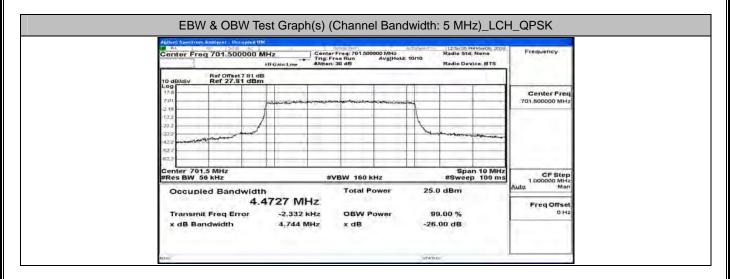


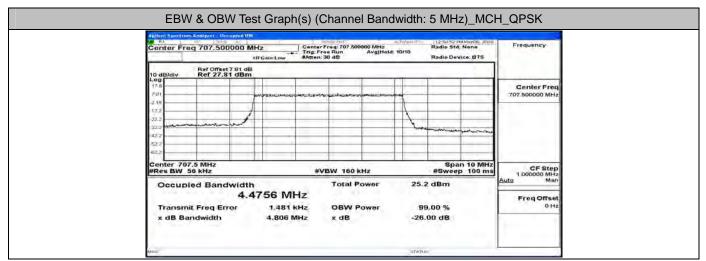


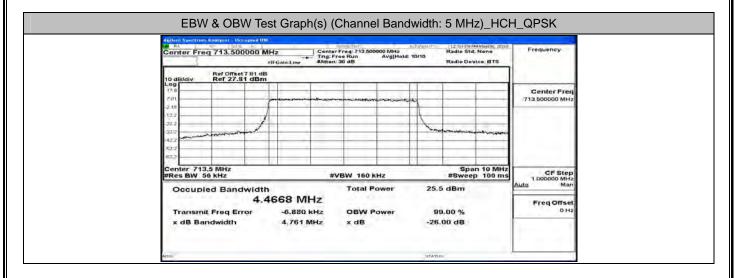


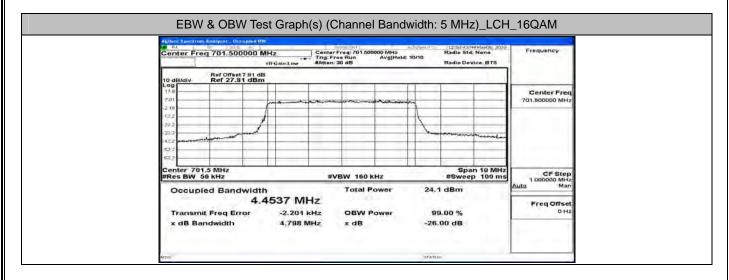


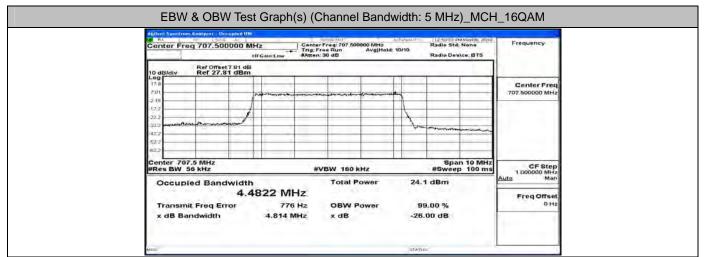


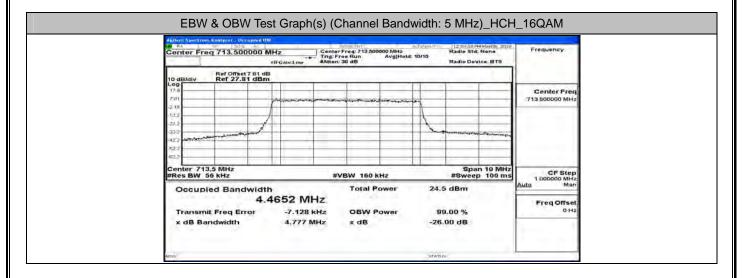


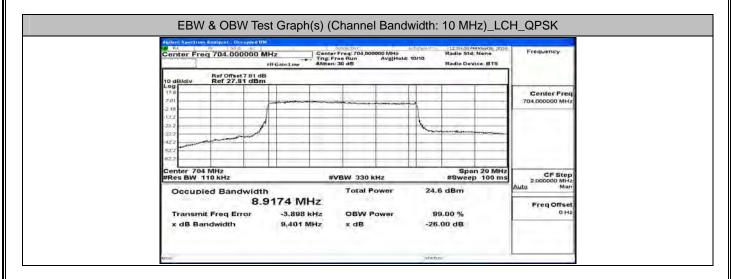


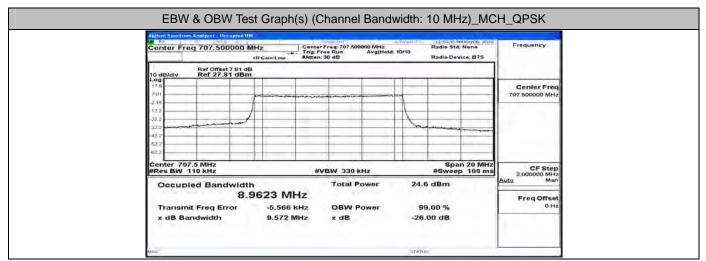


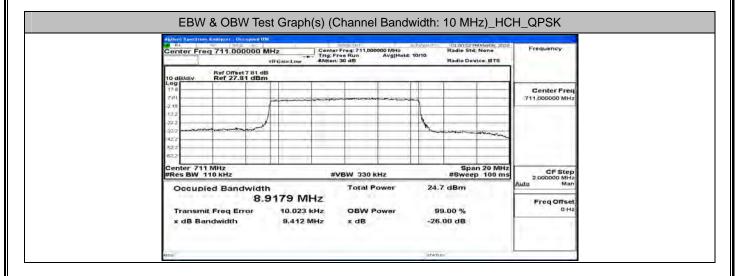


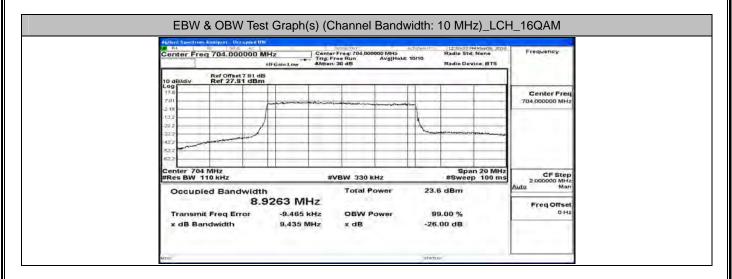


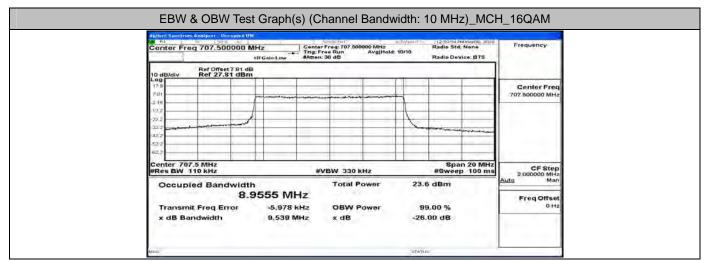


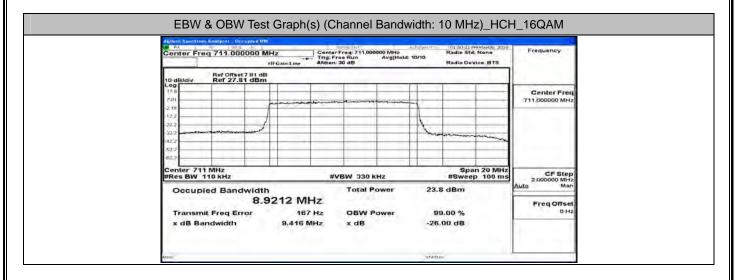




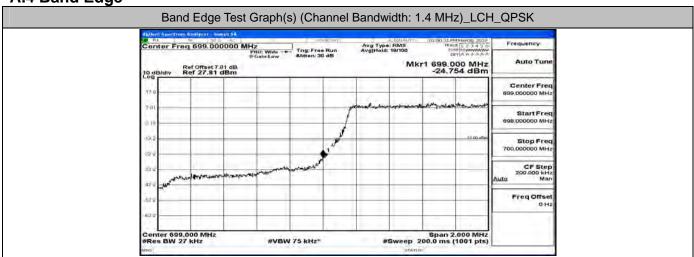


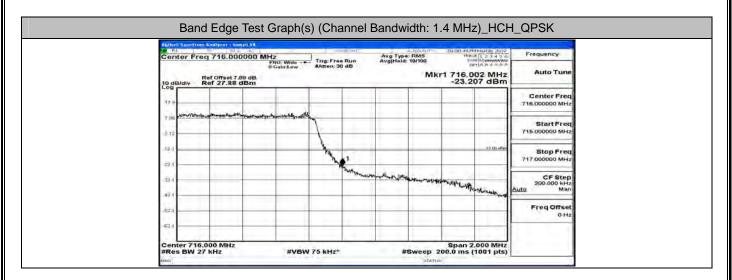


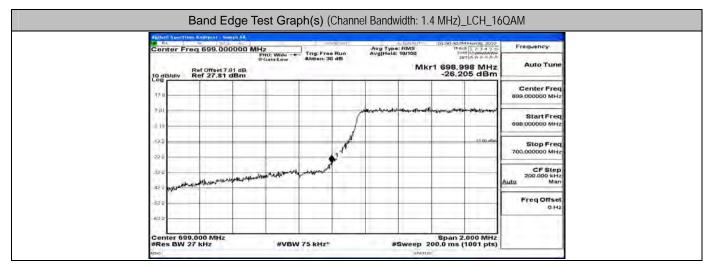


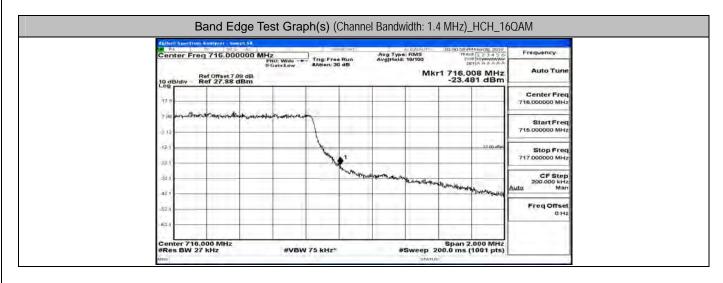


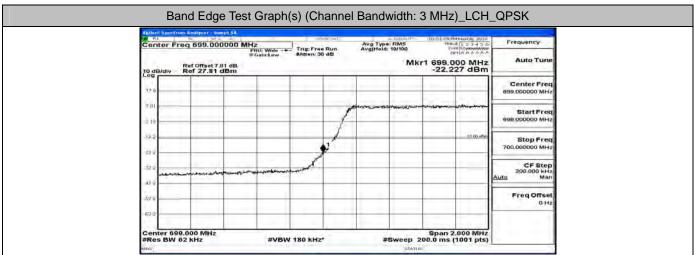
A.4 Band Edge

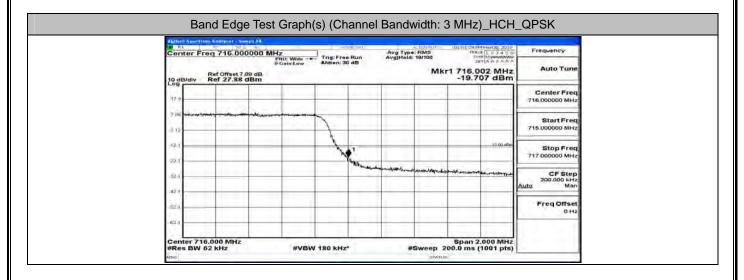


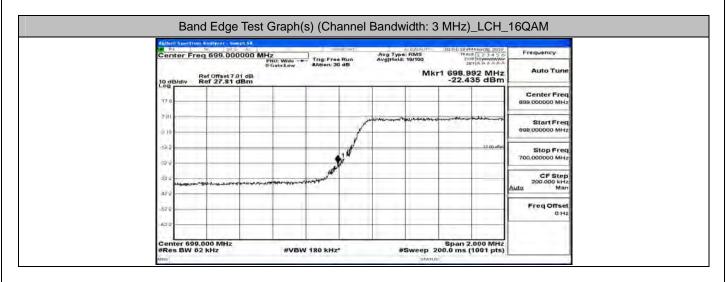


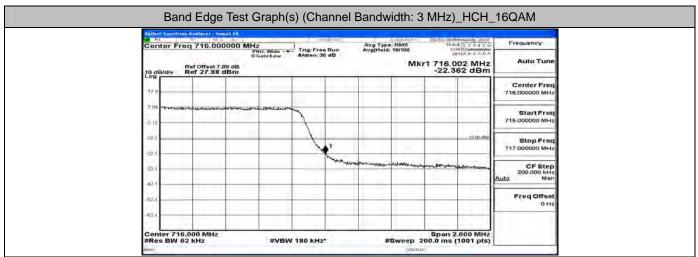


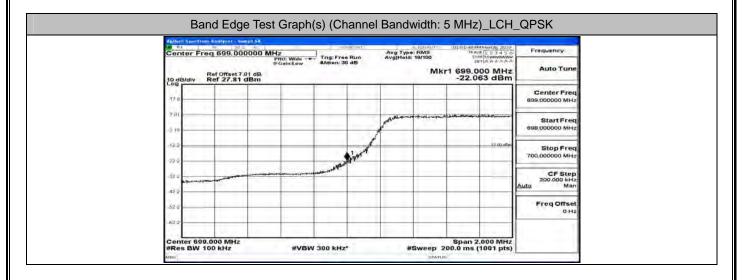


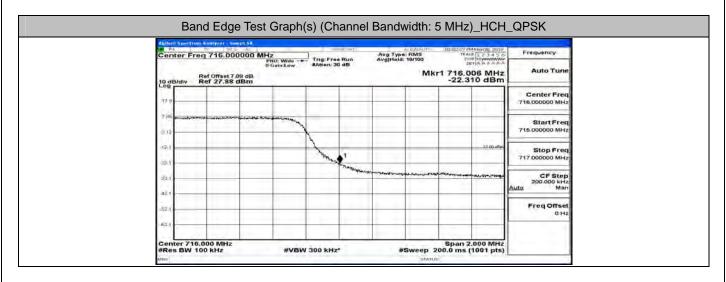


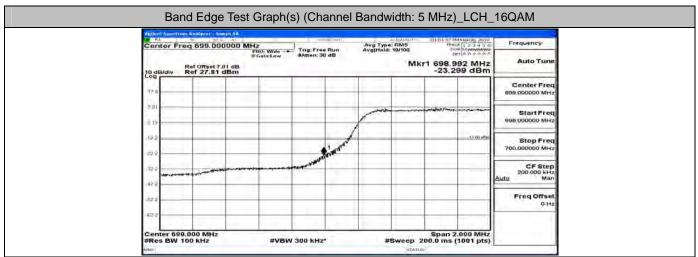


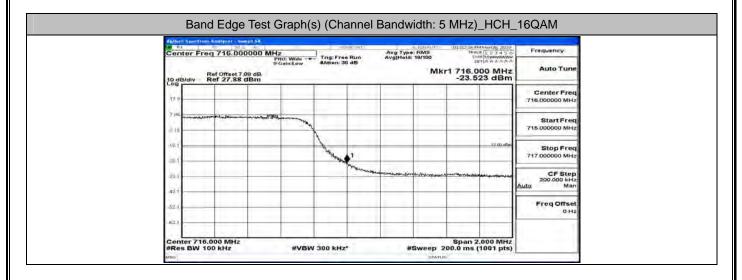


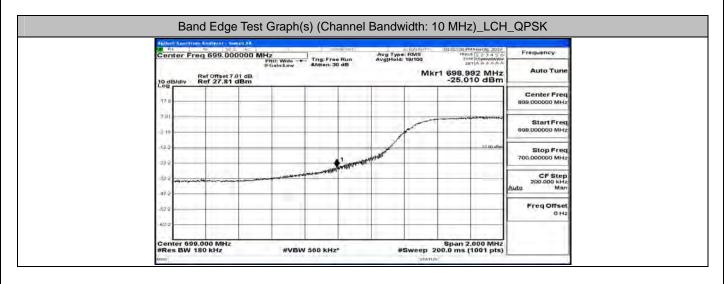


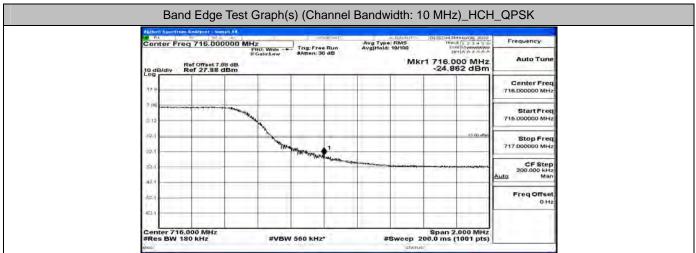


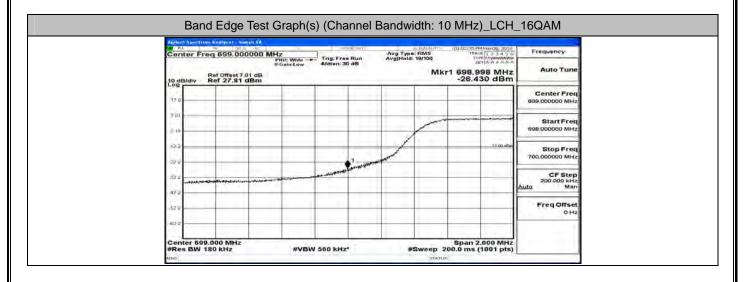


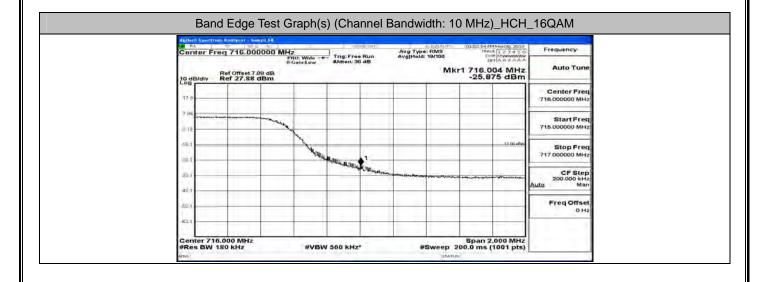












A.5 Conducted Spurious Emission

