# Appendix E: Test Data for E-UTRA Band 4

**Product Name: 10.1 inch 4G Tablet** Trade Mark: LOGIC, iSWAG, UNONU **Test Model: T10L** 

#### **Environmental Conditions**

Temperature:	23.5 ° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

### **E.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		
iviodulation	Channel	Size	Offset	QPSK	16QAM	verdict		
		1	0	23.18	22.48	PASS		
		1	3	23.07	22.47	PASS		
		1	5	22.93	22.27	PASS		
	LCH	3	0	23.09	22.35	PASS		
		3	2	23.02	22.28	PASS		
		3	3	22.93	22.17	PASS		
		6	0	22.79	21.91	PASS		
		1	0	23.24	22.54	PASS		
		1	3	23.32	22.59	PASS		
QPSK /		1	5	23.28	22.38	PASS		
16QAM	MCH	3	0	23.33	22.27	PASS		
TOQAIVI		3	2	23.39	22.28	PASS		
		3	3	23.26	22.08	PASS		
		6	0	22.36	21.08	PASS		
		1	0	23.60	22.42	PASS		
		1	3	23.80	22.49	PASS		
		1	5	23.71	22.41	PASS		
	HCH	3	0	23.73	22.36	PASS		
		3	2	23.85	22.51	PASS		
		3	3	23.77	22.43	PASS		
		6	0	22.57	21.99	PASS		

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)								
Modulation	Channel	RB Configuration Size Offset		Average Power [dBm]  QPSK	Average Power [dBm] 16QAM	Verdict		
		1	0	23.22	22.52	PASS		
		1	7	22.99	22.31	PASS		
		1	14	22.58	21.92	PASS		
	LCH	8	0	22.87	22.17	PASS		
		8	4	22.73	22.03	PASS		
		8	7	22.63	21.83	PASS		
		15	0	22.78	21.78	PASS		
	мсн	1	0	23.21	22.58	PASS		
		1	7	23.44	22.31	PASS		
QPSK /		1	14	23.57	22.09	PASS		
16QAM		8	0	22.16	21.05	PASS		
IOQAW		8	4	22.16	21.28	PASS		
		8	7	22.05	21.14	PASS		
		15	0	22.15	21.18	PASS		
		1	0	23.45	22.65	PASS		
		1	7	23.89	23.10	PASS		
		1	14	24.02	23.15	PASS		
	HCH	8	0	22.47	21.32	PASS		
		8	4	22.58	21.51	PASS		
		8	7	22.68	21.54	PASS		
		15	0	22.49	21.61	PASS		

	Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)								
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict			
Modulation	Charmer	Size	Offset	QPSK	16QAM	verdict			
		1	0	23.17	22.57	PASS			
		1	12	22.74	22.17	PASS			
		1	24	22.30	21.80	PASS			
	LCH	12	0	22.72	22.08	PASS			
		12	6	22.61	21.88	PASS			
		12	13	22.35	21.62	PASS			
		25	0	22.56	21.71	PASS			
		1	0	23.14	22.35	PASS			
	MCH	1	12	23.41	22.34	PASS			
QPSK /		1	24	23.15	22.45	PASS			
16QAM		12	0	22.22	21.36	PASS			
IOQAW		12	6	22.19	21.32	PASS			
		12	13	22.18	21.22	PASS			
		25	0	22.08	21.31	PASS			
		1	0	23.40	21.90	PASS			
		1	12	24.23	22.26	PASS			
		1	24	24.37	22.21	PASS			
	HCH	12	0	22.52	21.42	PASS			
		12	6	22.69	21.82	PASS			
		12	13	22.76	21.90	PASS			
		25	0	22.58	21.91	PASS			

	Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)							
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/a nali a t		
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict		
		1	0	22.32	21.67	PASS		
		1	24	22.44	21.83	PASS		
		1	49	22.32	21.71	PASS		
	LCH	25	0	22.29	21.38	PASS		
		25	12	22.29	21.40	PASS		
		25	25	22.28	21.38	PASS		
		50	0	22.22	21.35	PASS		
	мсн	1	0	22.69	22.05	PASS		
		1	24	23.38	22.79	PASS		
QPSK /		1	49	23.46	22.85	PASS		
16QAM		25	0	22.17	21.29	PASS		
TOQAM		25	12	22.23	21.26	PASS		
		25	25	22.06	21.16	PASS		
		50	0	22.15	21.28	PASS		
		1	0	22.46	21.95	PASS		
		1	24	23.42	22.98	PASS		
		1	49	23.83	23.35	PASS		
	HCH	25	0	22.38	21.36	PASS		
		25	12	22.62	21.77	PASS		
		25	25	22.74	21.78	PASS		
		50	0	22.49	21.53	PASS		

	Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)							
Madulation	Channal	RB Conf	figuration	Average Power [dBm]	Average Power [dBm]	Vardiet		
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict		
		1	0	22.09	21.43	PASS		
		1	37	22.63	22.03	PASS		
		1	74	23.10	22.48	PASS		
	LCH	37	0	22.02	21.14	PASS		
		37	18	22.52	21.62	PASS		
		37	38	23.07	22.16	PASS		
		75	0	22.53	21.67	PASS		
		1	0	22.89	22.24	PASS		
	МСН	1	37	23.28	22.68	PASS		
ODCK /		1	74	23.47	22.87	PASS		
QPSK / 16QAM		37	0	22.32	21.43	PASS		
TOQAIVI		37	18	22.19	21.22	PASS		
		37	38	22.04	21.12	PASS		
		75	0	22.21	21.30	PASS		
		1	0	23.13	22.57	PASS		
		1	37	22.96	22.41	PASS		
		1	74	23.56	23.01	PASS		
	HCH	37	0	22.14	21.37	PASS		
		37	18	22.38	21.48	PASS		
		37	38	22.64	21.74	PASS		
		75	0	22.42	21.48	PASS		

	Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)							
Modulation	Channel	RB Conf	figuration	Average Power [dBm]	Average Power [dBm]	Verdict		
Modulation	Onamo	Size	Offset	QPSK	16QAM	Vordiot		
		1	0	21.75	20.92	PASS		
		1	49	23.34	22.55	PASS		
		1	99	22.18	21.38	PASS		
	LCH	50	0	22.05	21.14	PASS		
		50	25	23.07	22.16	PASS		
		50	50	22.81	21.86	PASS		
		100	0	22.67	21.75	PASS		
		1	0	22.89	22.08	PASS		
	MCH	1	49	23.32	22.34	PASS		
QPSK /		1	99	22.95	21.42	PASS		
16QAM		50	0	22.44	21.54	PASS		
TOQAM		50	25	22.21	21.24	PASS		
		50	50	22.06	21.16	PASS		
		100	0	22.22	21.33	PASS		
		1	0	23.01	21.65	PASS		
		1	49	23.29	22.08	PASS		
		1	99	23.36	22.59	PASS		
	HCH	50	0	22.09	21.16	PASS		
		50	25	22.25	21.16	PASS		
		50	50	22.46	21.41	PASS		
ı		100	0	22.33	21.37	PASS		

## E.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	Griannei	[dB]	[dB]	verdict				
	LCH	5.17	<13	PASS				
QPSK	MCH	5.27	<13	PASS				
	HCH	5.1	<13	PASS				
16QAM	LCH	5.96	<13	PASS				
	MCH	6.11	<13	PASS				
	HCH	5.95	<13	PASS				

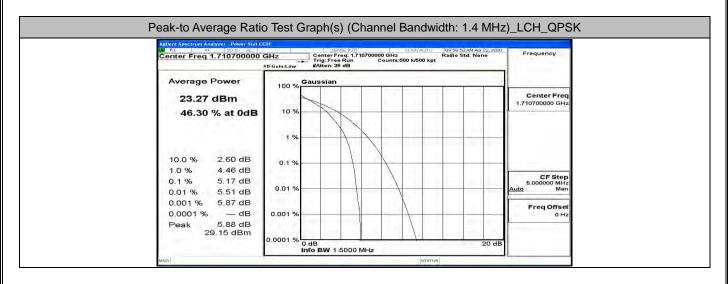
Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Vordict		
Modulation	Channel	[dB]	[dB]	Verdict		
	LCH	5.27	<13	PASS		
QPSK	MCH	5.31	<13	PASS		
	HCH	5.29	<13	PASS		
16QAM	LCH	6.12	<13	PASS		
	MCH	6.19	<13	PASS		
	HCH	6.02	<13	PASS		

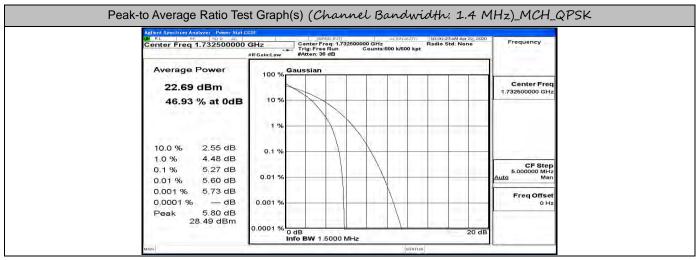
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Vordict		
Modulation	Griannei	[dB]	[dB]	Verdict		
	LCH	5.32	<13	PASS		
QPSK	MCH	5.28	<13	PASS		
	HCH	5.25	<13	PASS		
	LCH	6.11	<13	PASS		
16QAM	MCH	6.08	<13	PASS		
	HCH	6.07	<13	PASS		

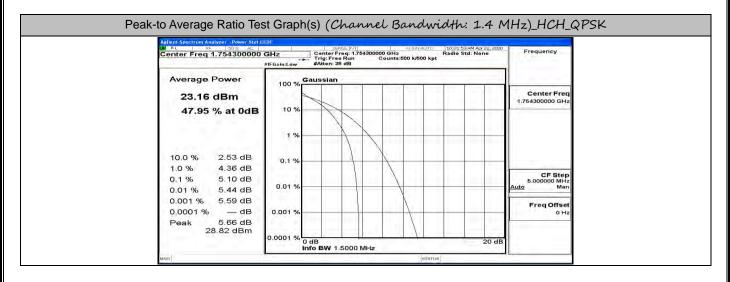
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict			
Modulation	Chamber	[dB]	[dB]	verdict			
	LCH	5.77	<13	PASS			
QPSK	MCH	5.28	<13	PASS			
	HCH	5.34	<13	PASS			
	LCH	6.34	<13	PASS			
16QAM	MCH	6.03	<13	PASS			
	HCH	6.03	<13	PASS			

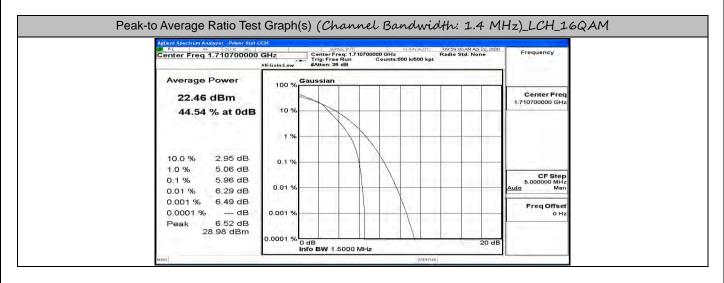
	Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict				
Modulation	Grianner	[dB]	[dB]	verdict				
	LCH	5.18	<13	PASS				
QPSK	MCH	5.04	<13	PASS				
	HCH	5.02	<13	PASS				
	LCH	6.22	<13	PASS				
16QAM	MCH	6.19	<13	PASS				
	HCH	6.16	<13	PASS				

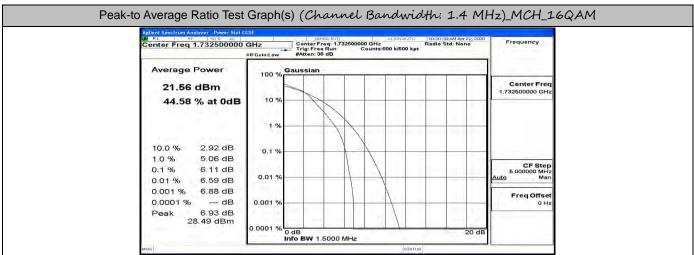
Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)				
M. I.I.C	Channel	Peak-to-Average Ratio	Limit	Verdict
Modulation		[dB]	[dB]	
QPSK	LCH	5.95	<13	PASS
	MCH	5.73	<13	PASS
	HCH	5.83	<13	PASS
16QAM	LCH	6.76	<13	PASS
	MCH	6.73	<13	PASS
	HCH	6.69	<13	PASS

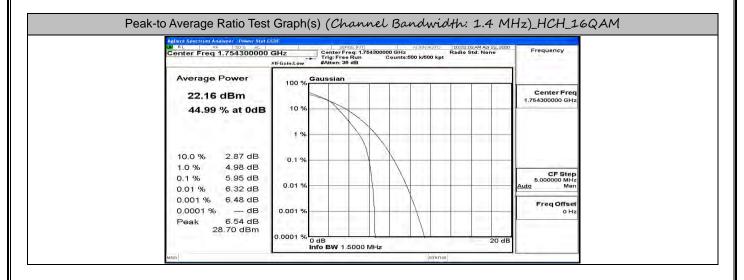


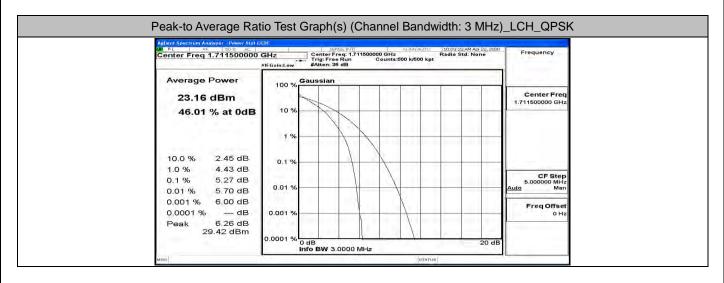


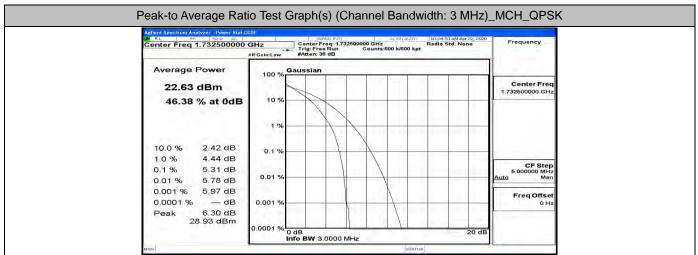


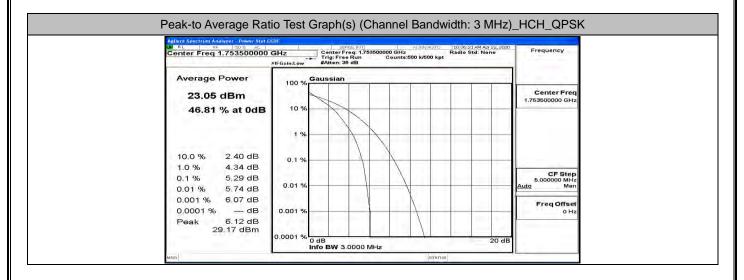


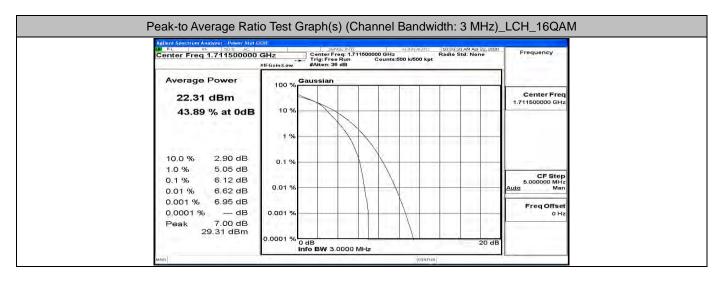


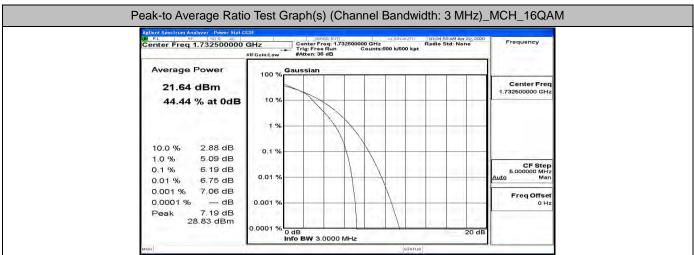


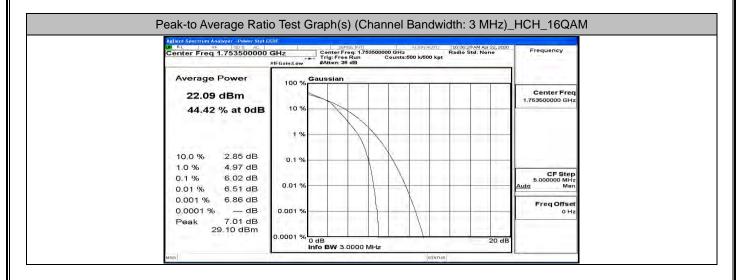


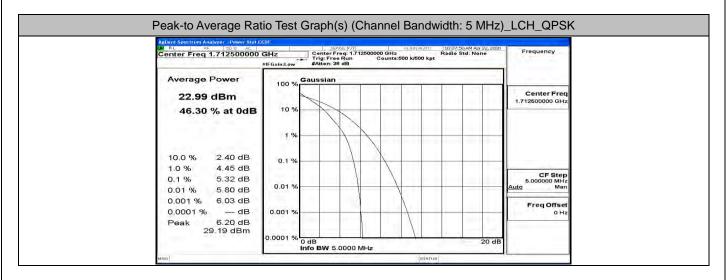


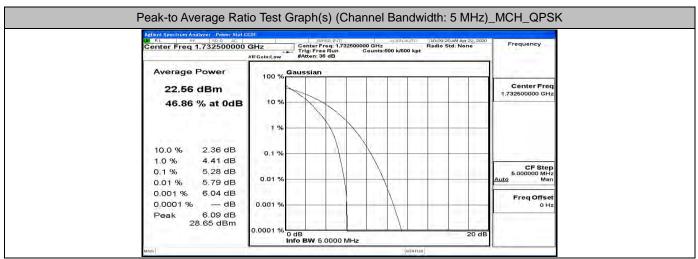


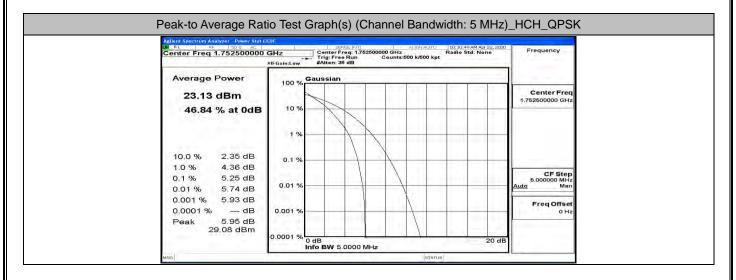


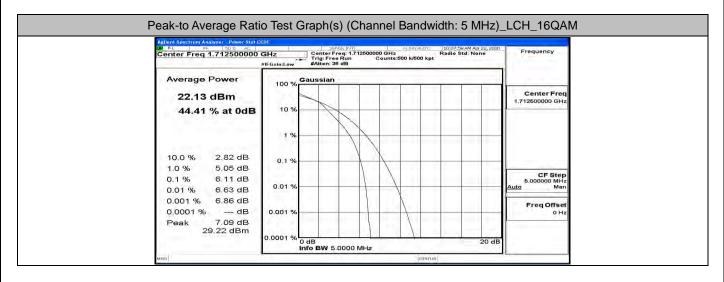


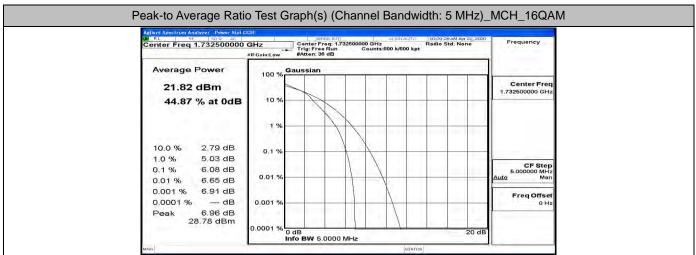


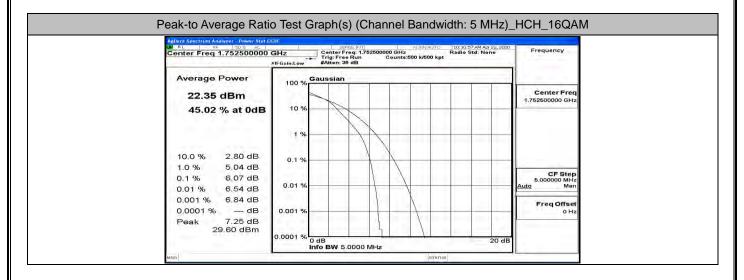


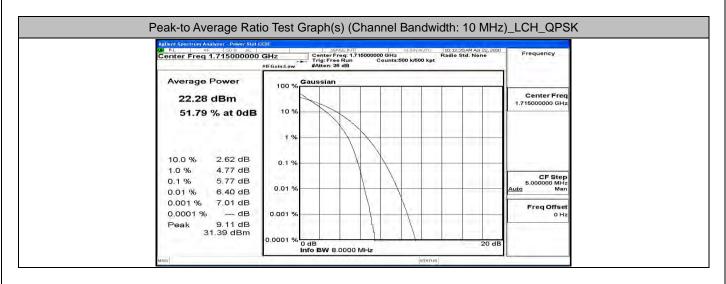


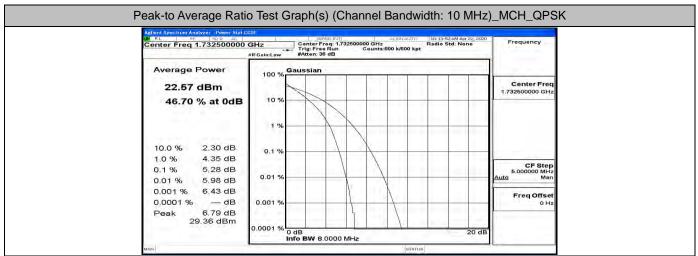


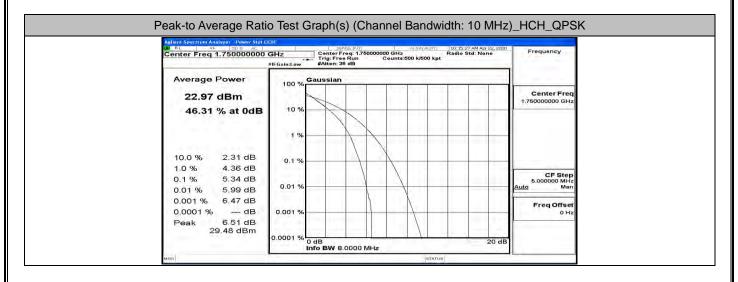


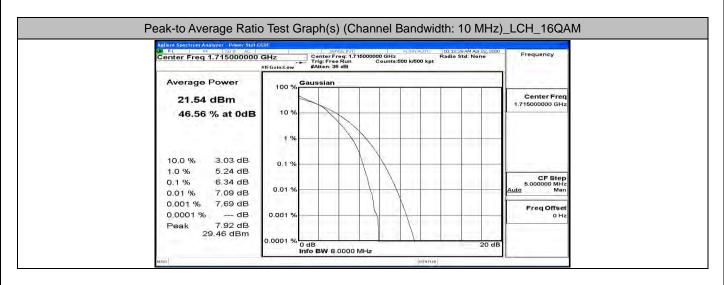


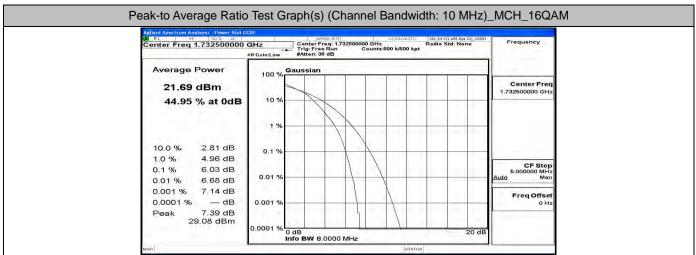


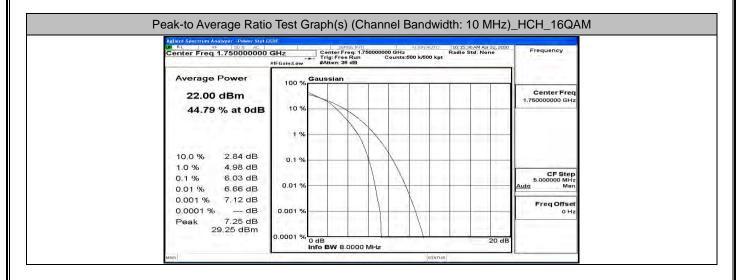


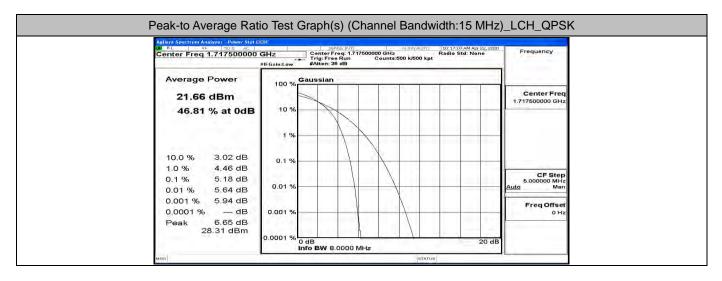


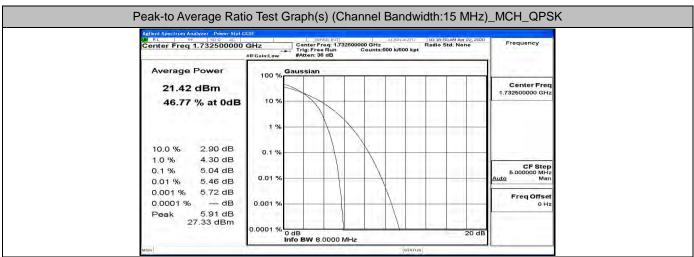


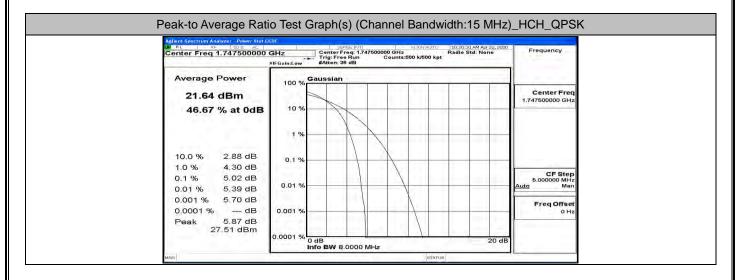


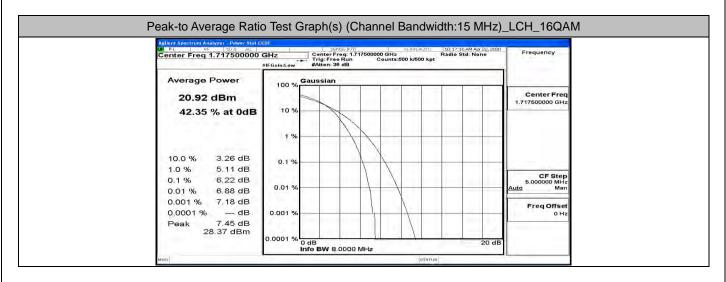


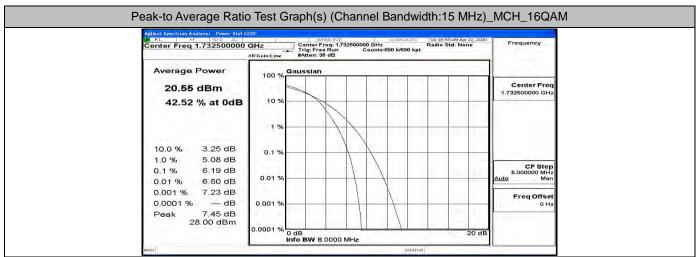


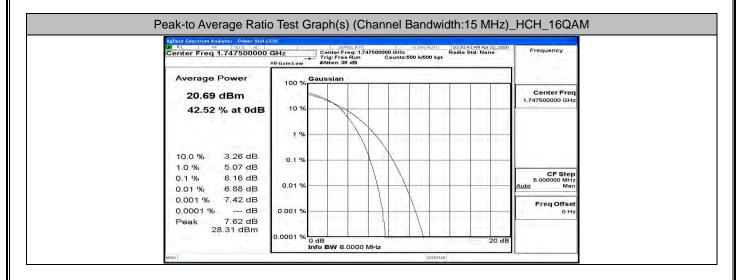


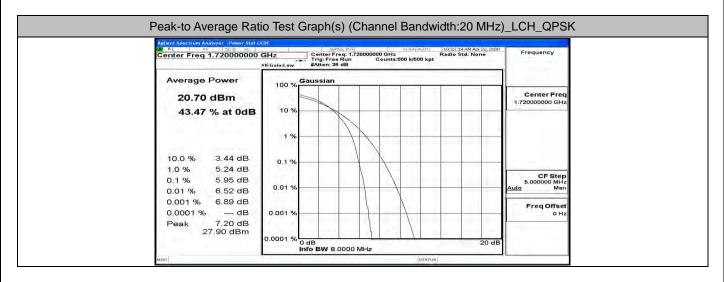


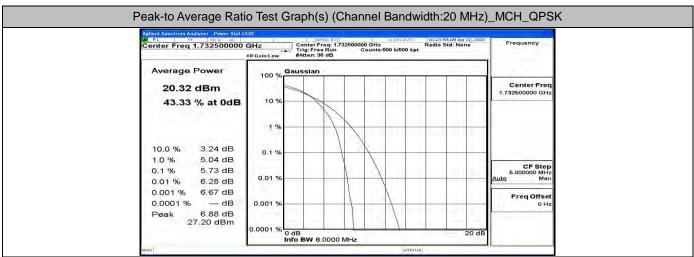


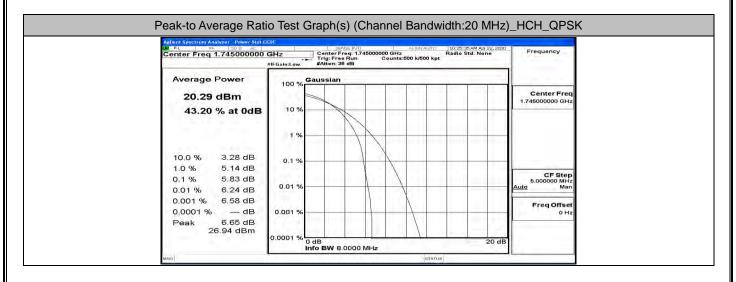


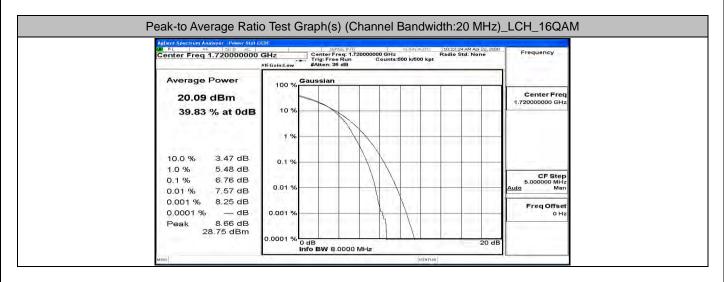


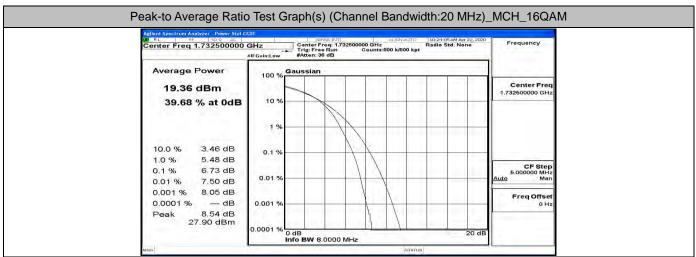


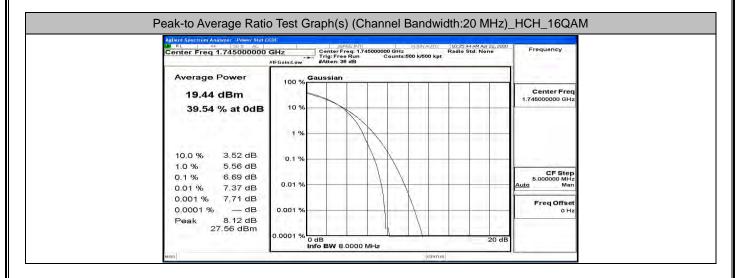












# E.3 26dB Bandwidth and Occupied Bandwidth

EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	
QPSK	LCH	1.0779	1.247	PASS
	MCH	1.0745	1.223	PASS
	HCH	1.0794	1.245	PASS
16QAM	LCH	1.0806	1.240	PASS
	MCH	1.0789	1.226	PASS
	HCH	1.0784	1.222	PASS

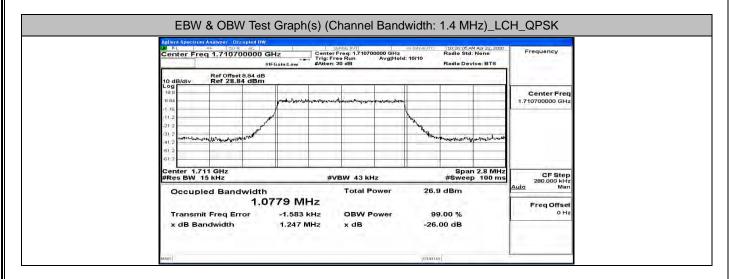
EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
	LCH	(MHz) 2.6838	(MHz) 2.875	PASS
QPSK	MCH	2.6849	2.891	PASS
	HCH	2.6826	2.912	PASS
16QAM	LCH	2.6851	2.878	PASS
	MCH	2.6831	2.886	PASS
	HCH	2.6803	2.892	PASS

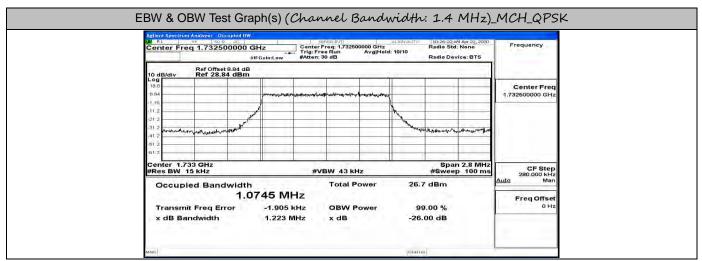
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	
QPSK	LCH	4.4792	4.801	PASS
	MCH	4.4823	4.816	PASS
	HCH	4.4688	4.776	PASS
16QAM	LCH	4.4700	4.818	PASS
	MCH	4.4783	4.787	PASS
	HCH	4.4717	4.805	PASS

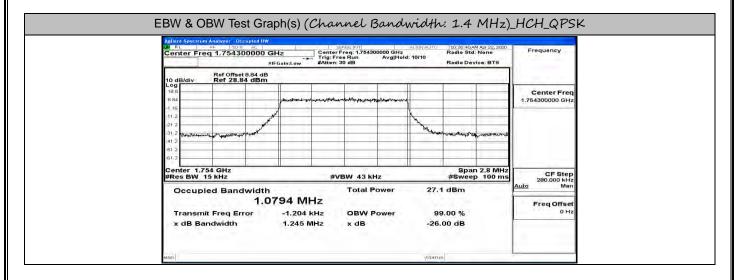
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	
QPSK	LCH	8.9453	9.528	PASS
	MCH	8.9455	9.478	PASS
	HCH	8.9341	9.426	PASS
16QAM	LCH	8.9354	9.462	PASS
	MCH	8.9280	9.392	PASS
	HCH	8.9273	9.454	PASS

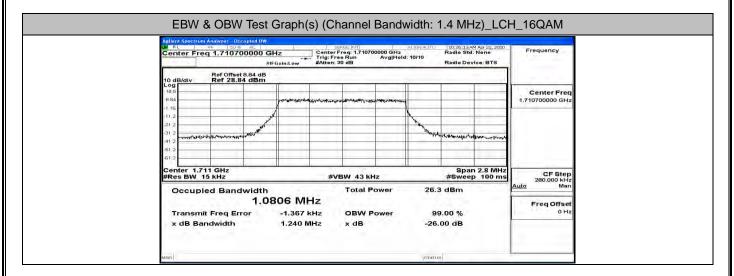
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	
QPSK	LCH	13.384	14.02	PASS
	MCH	13.398	14.00	PASS
	HCH	13.410	14.03	PASS
16QAM	LCH	13.392	13.96	PASS
	MCH	13.392	14.05	PASS
	HCH	13.409	14.05	PASS

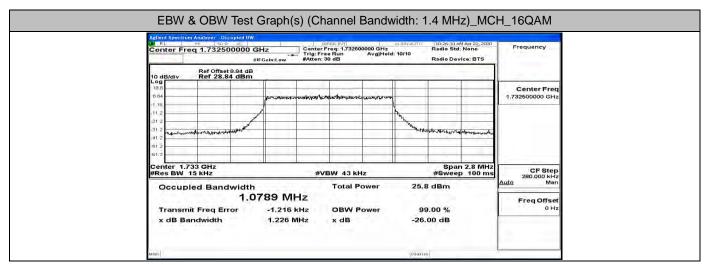
EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Manhalatina	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	
QPSK	LCH	17.824	18.60	PASS
	MCH	17.838	18.61	PASS
	HCH	17.853	18.63	PASS
16QAM	LCH	17.816	18.52	PASS
	MCH	17.854	18.56	PASS
	HCH	17.843	18.61	PASS

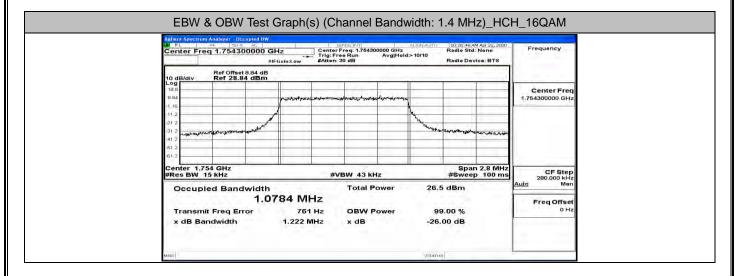


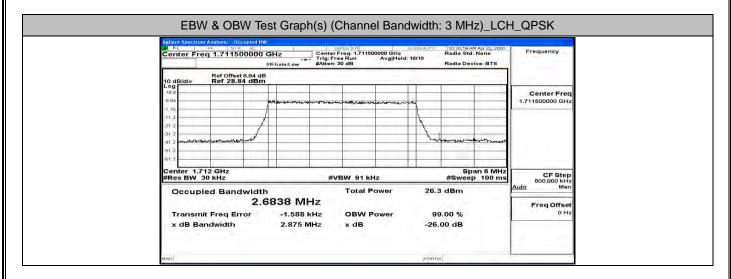


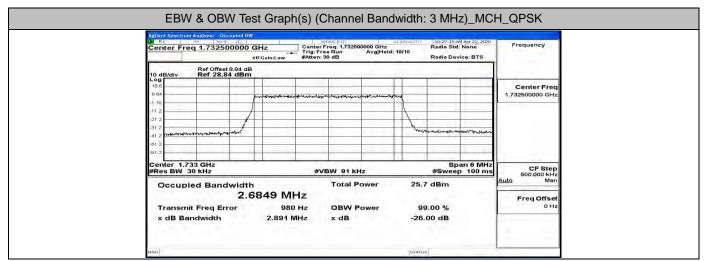


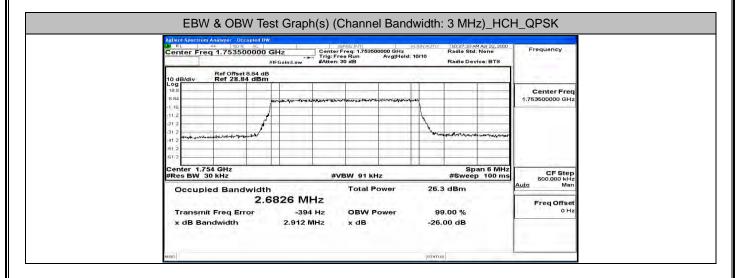


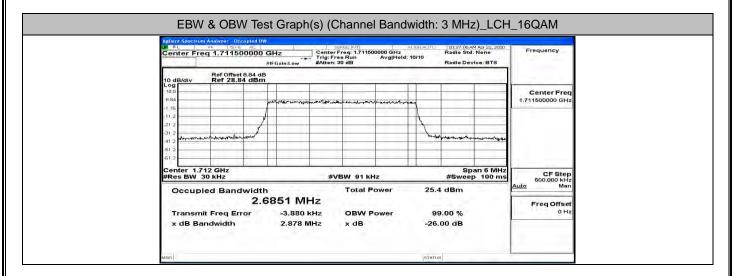


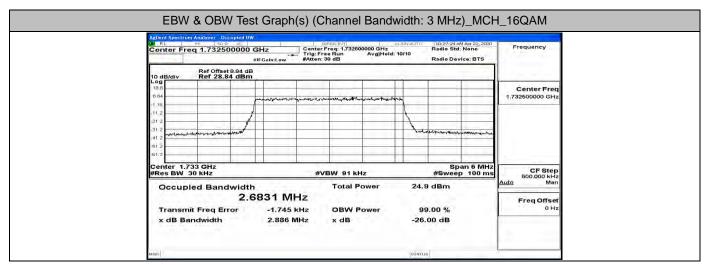


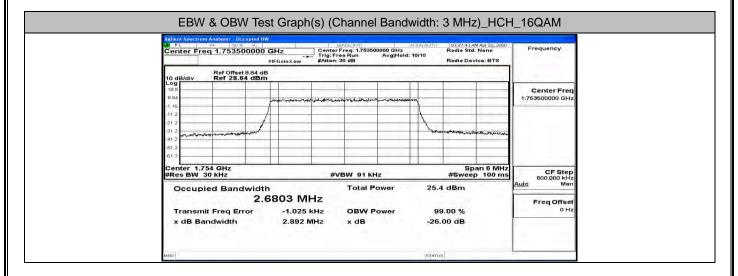


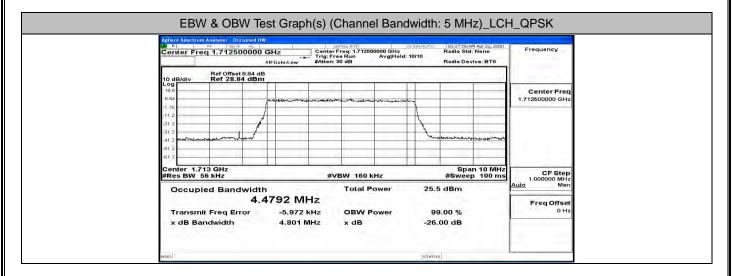


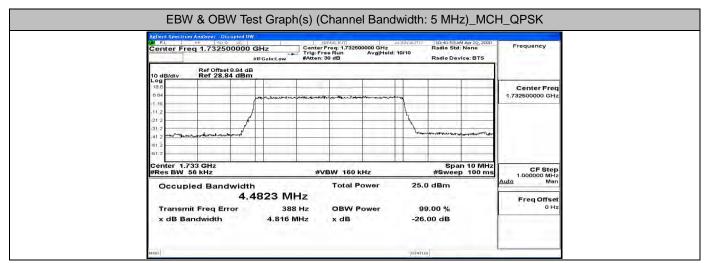


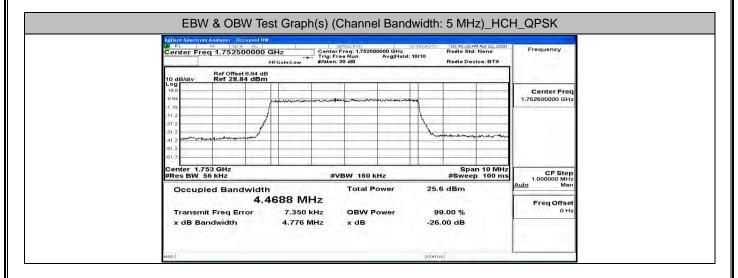


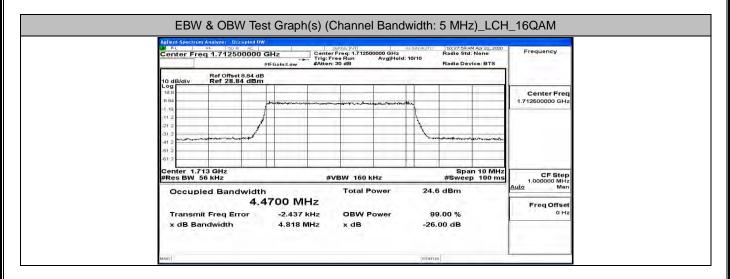


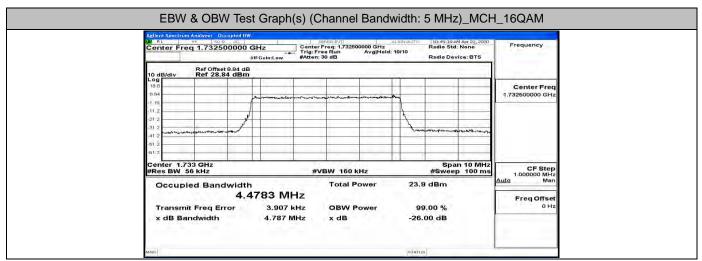


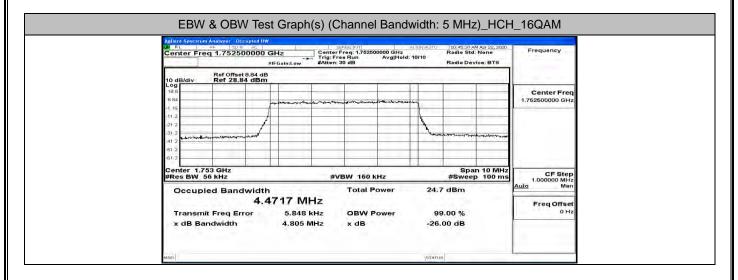


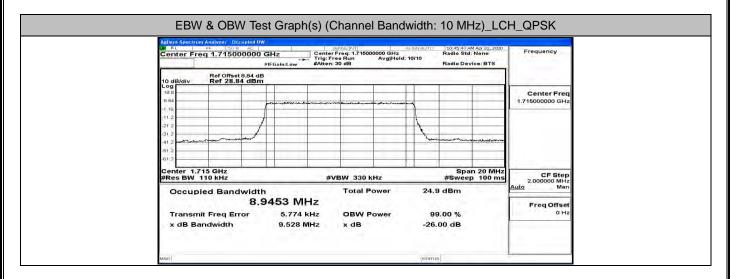


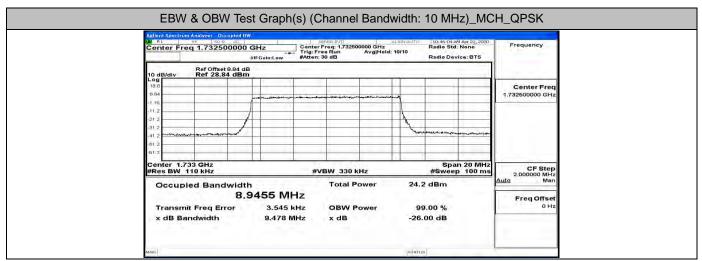


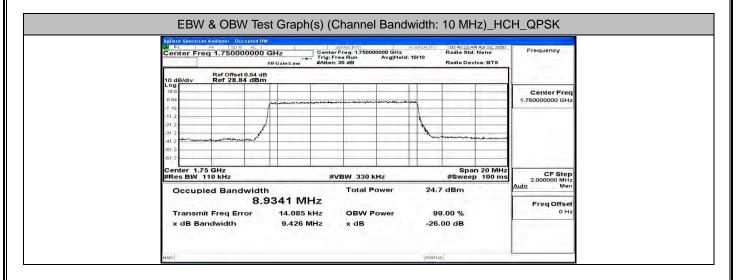


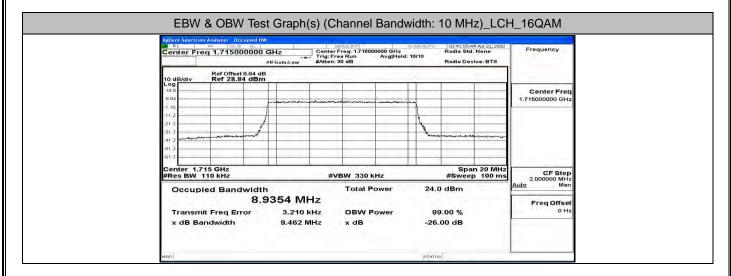


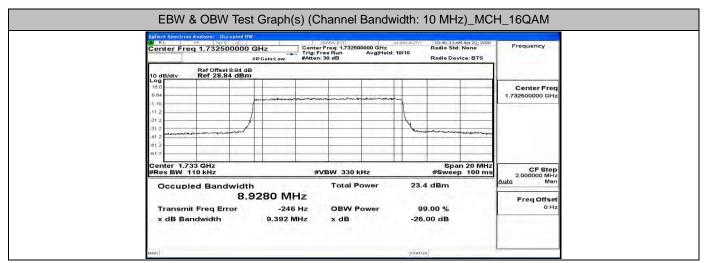


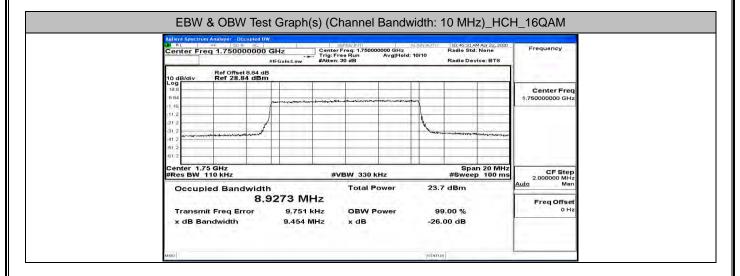


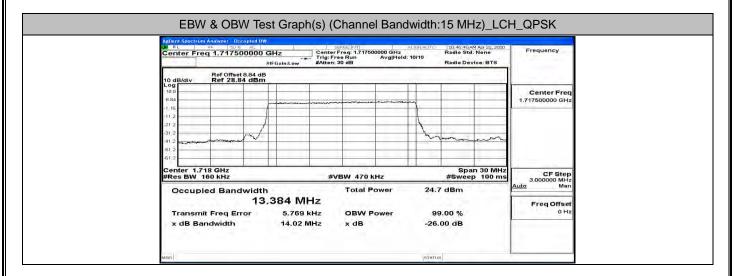


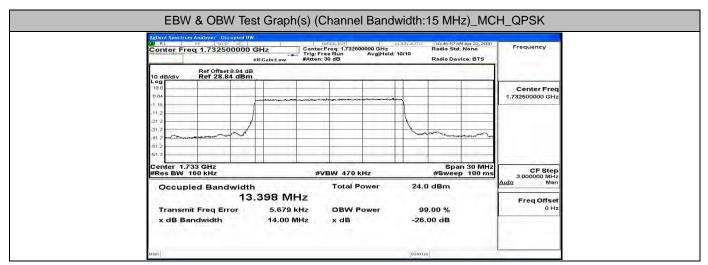


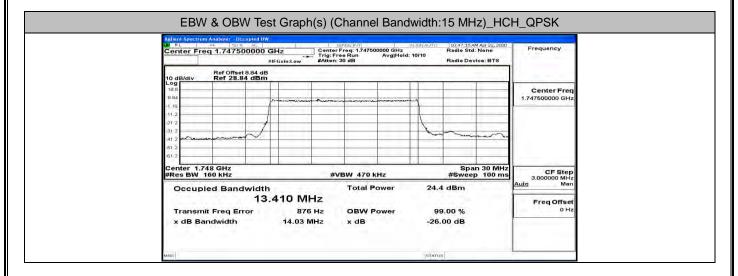


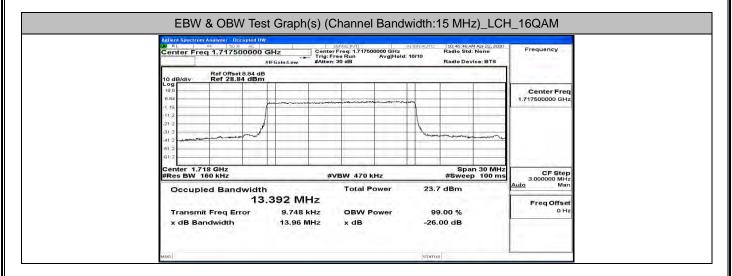


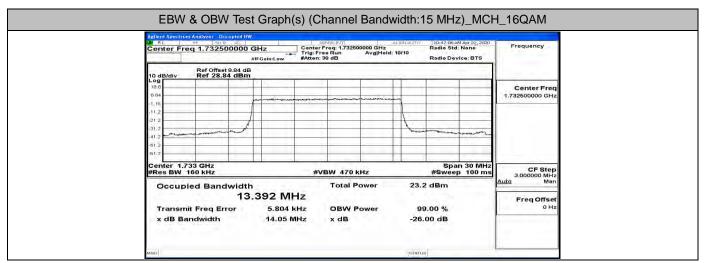


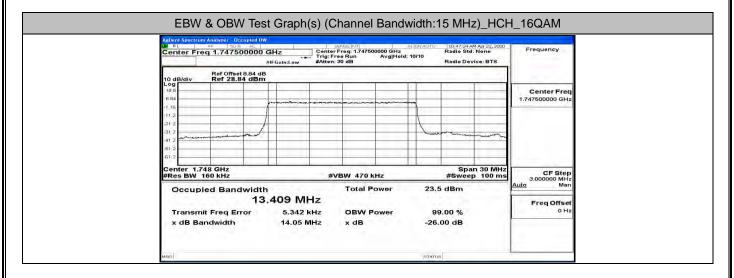


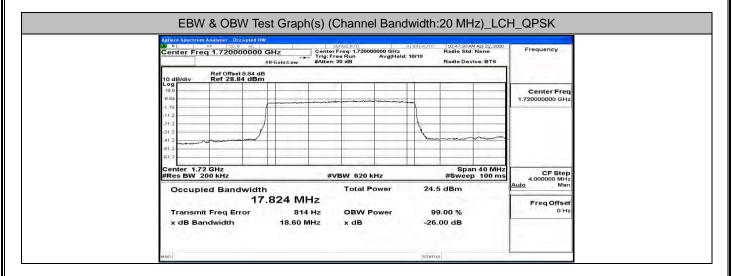


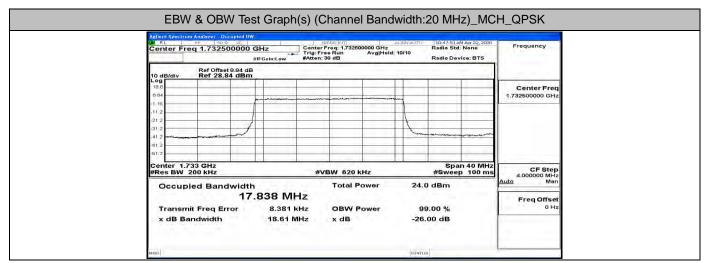


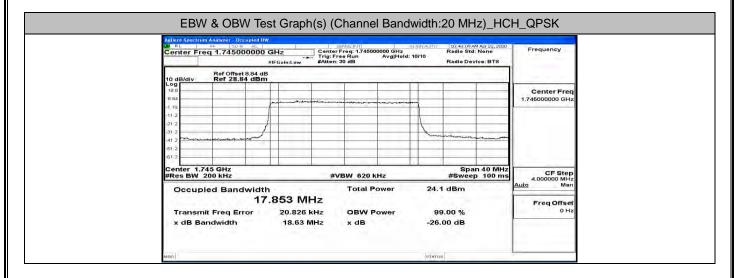


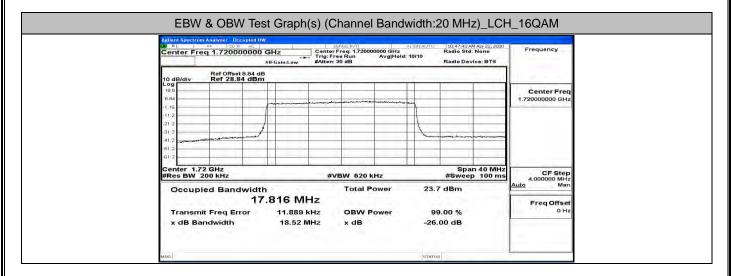


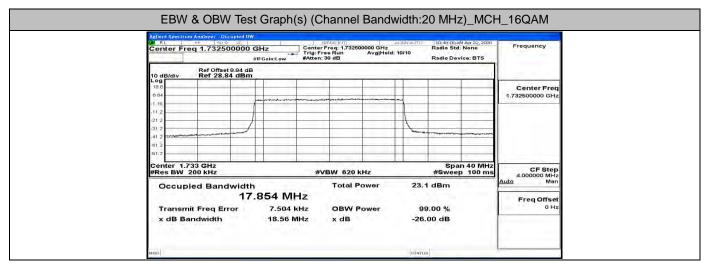


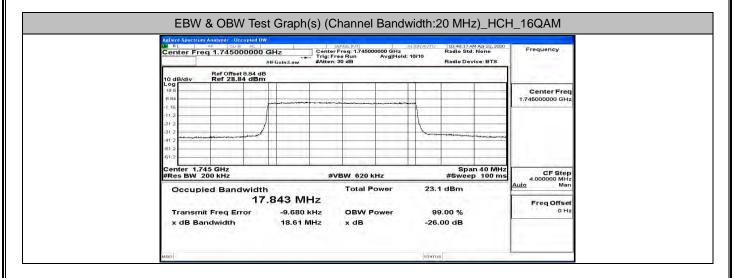




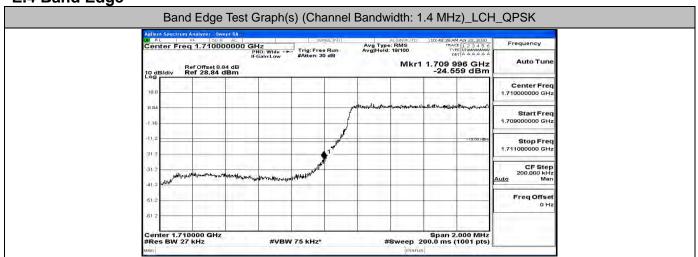


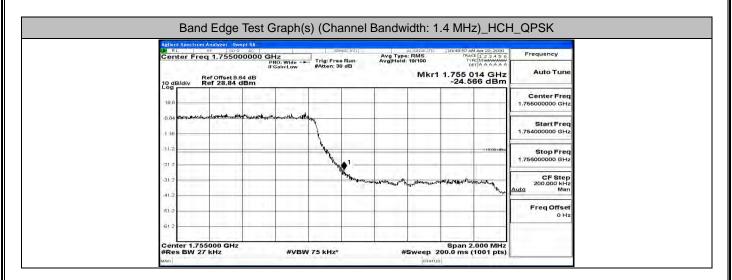


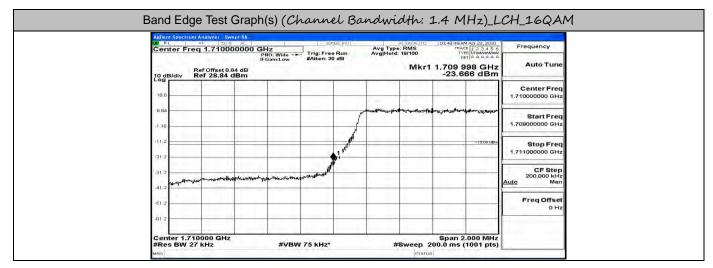


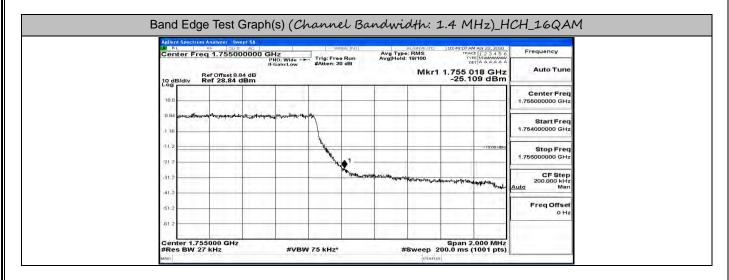


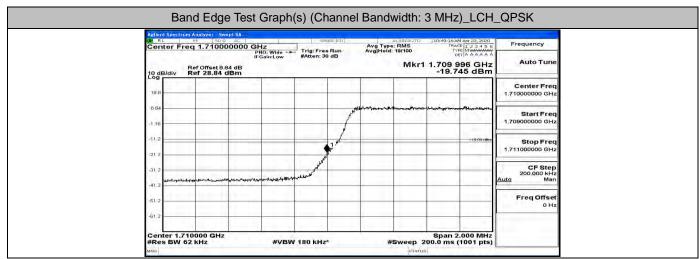
#### E.4 Band Edge

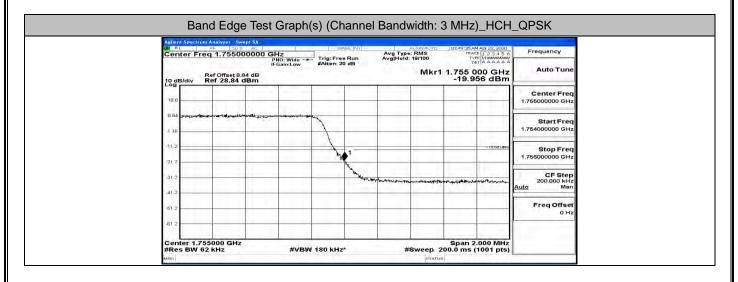


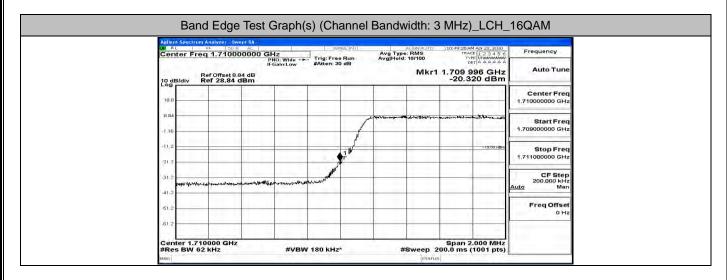


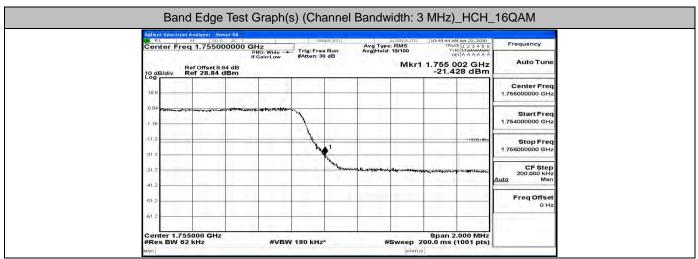


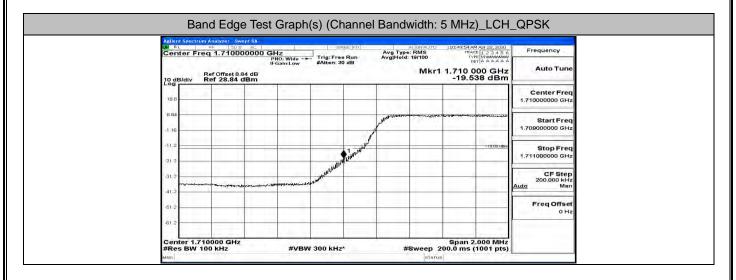


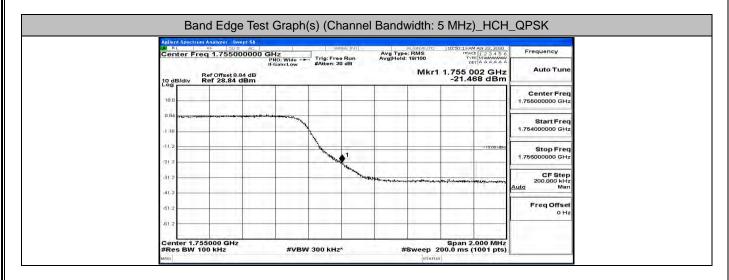


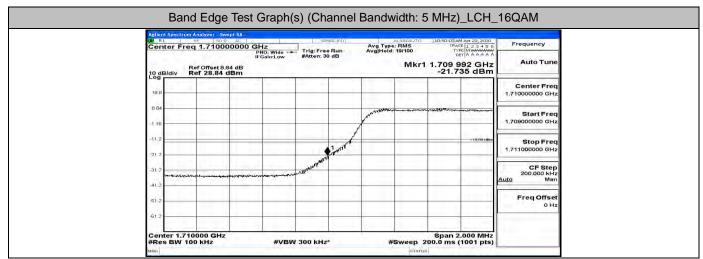


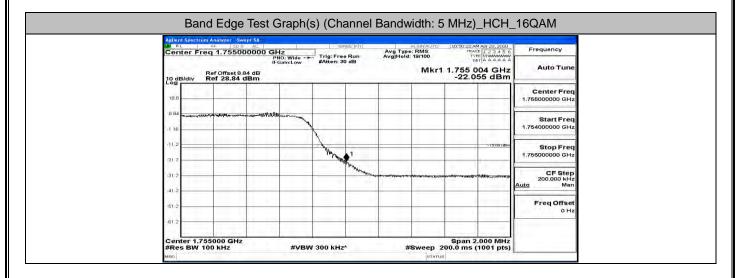


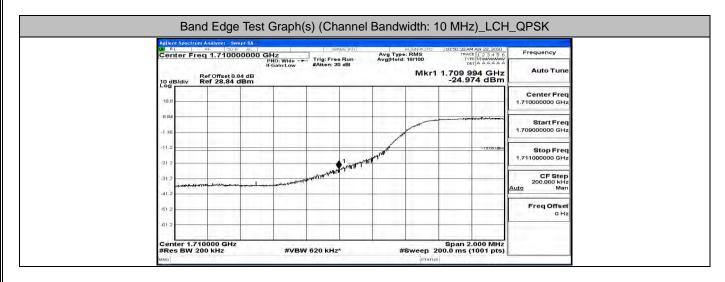


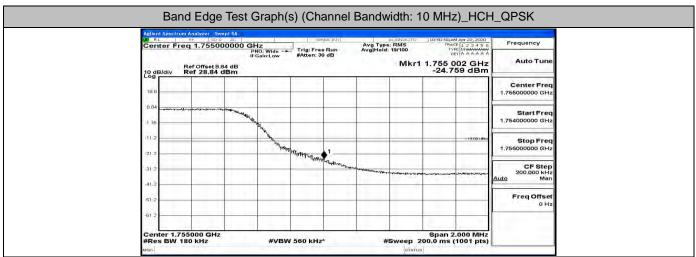


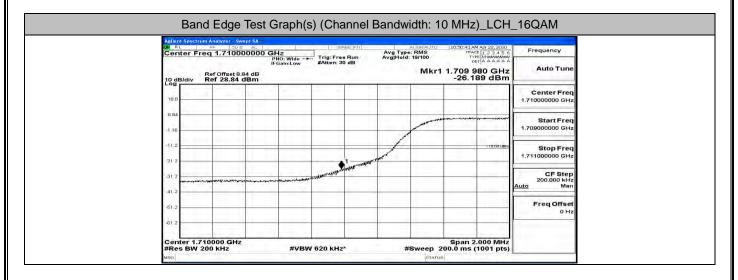


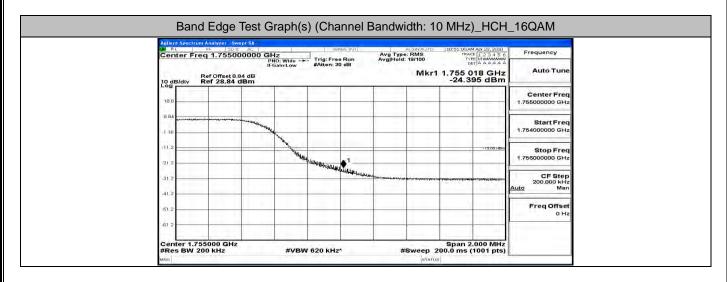


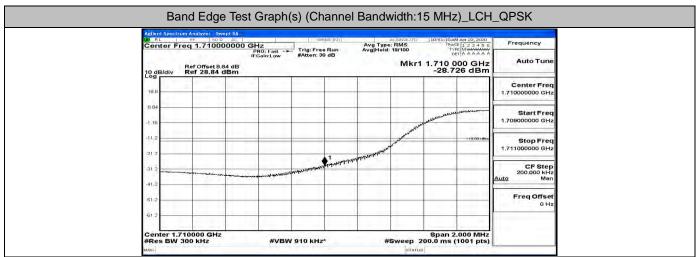


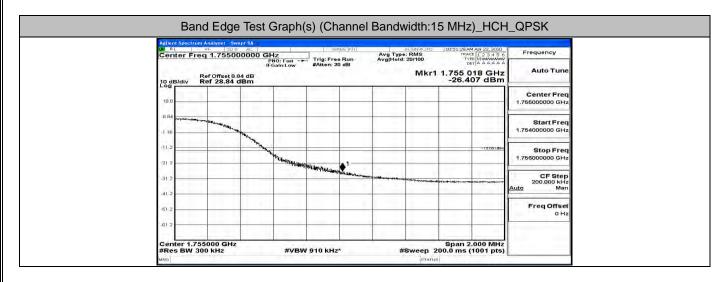


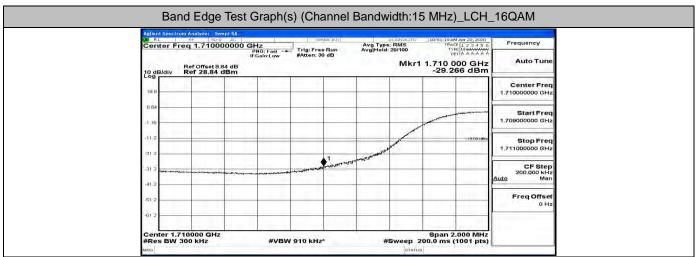


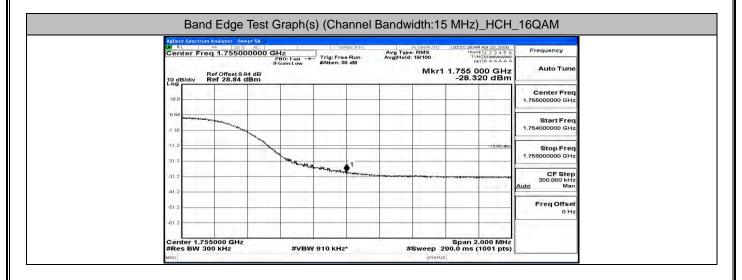


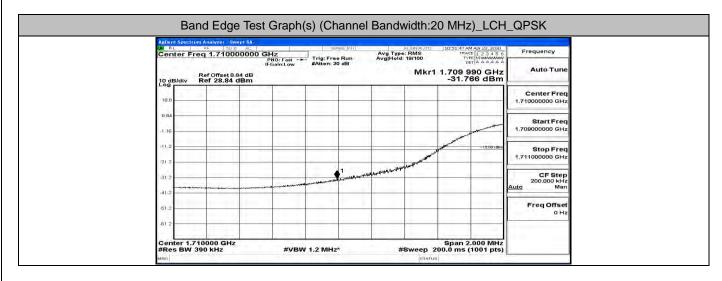


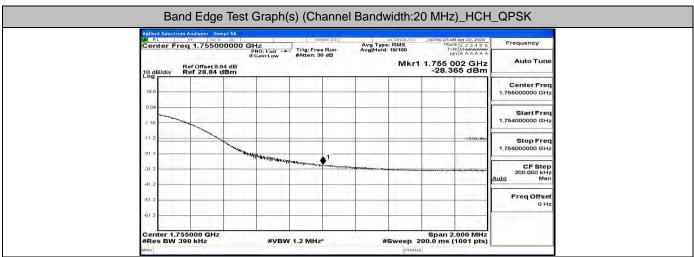


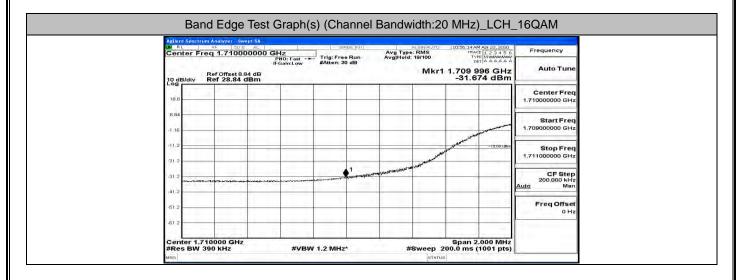


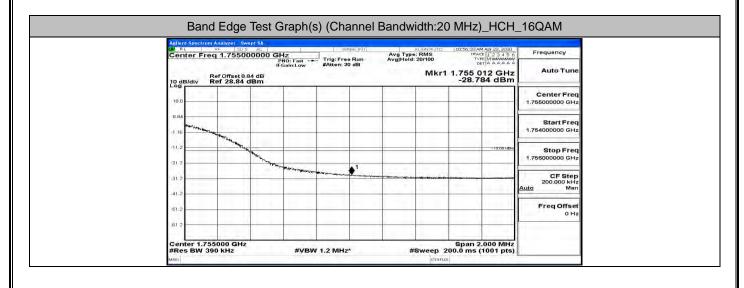






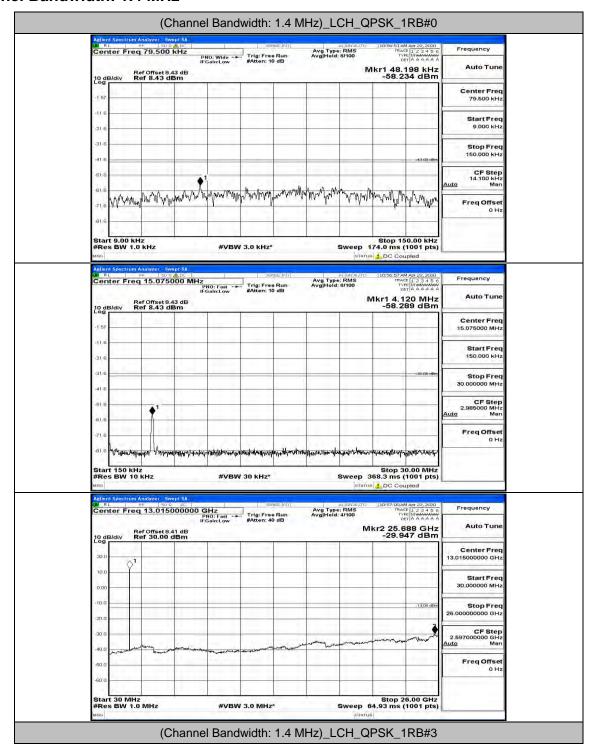




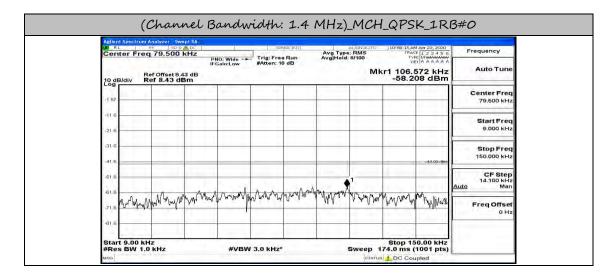


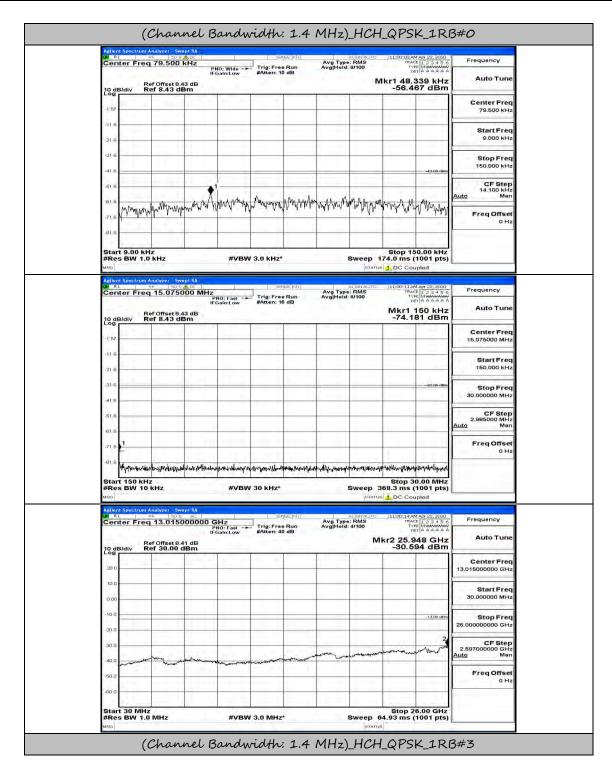
## **E.5 Conducted Spurious Emission**

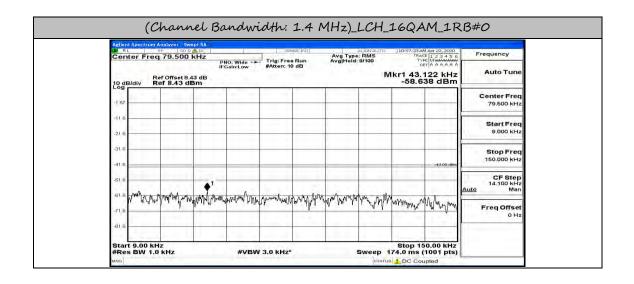
**Channel Bandwidth: 1.4 MHz** 







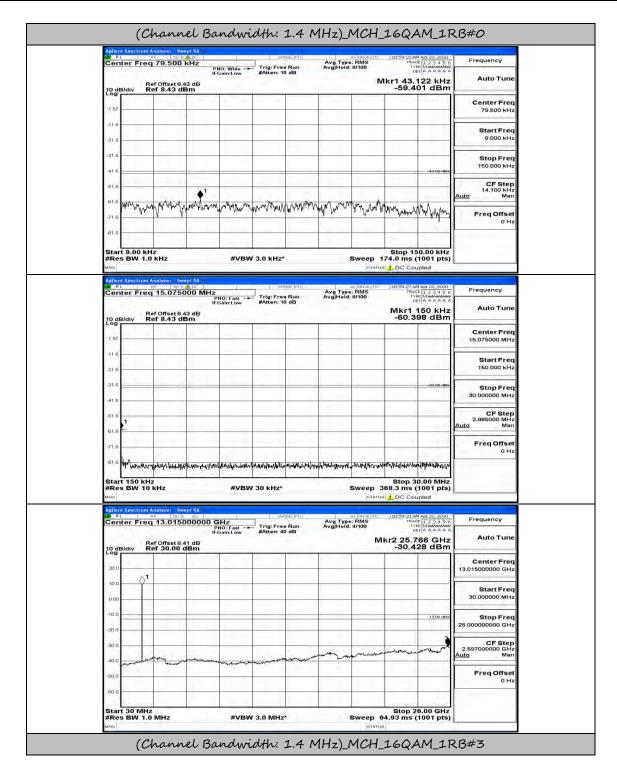




#VBW 3.0 MHz\*

Stop 26.00 GHz Sweep 64.93 ms (1001 pts)

Start 30 MHz #Res BW 1.0 MHz

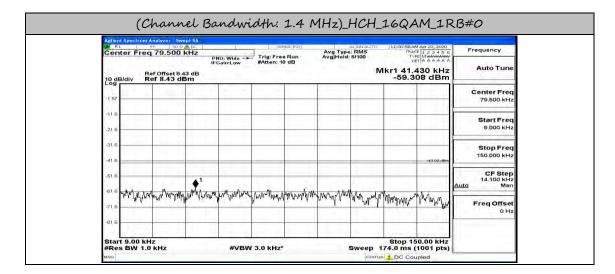


#VBW 3.0 kHz\*

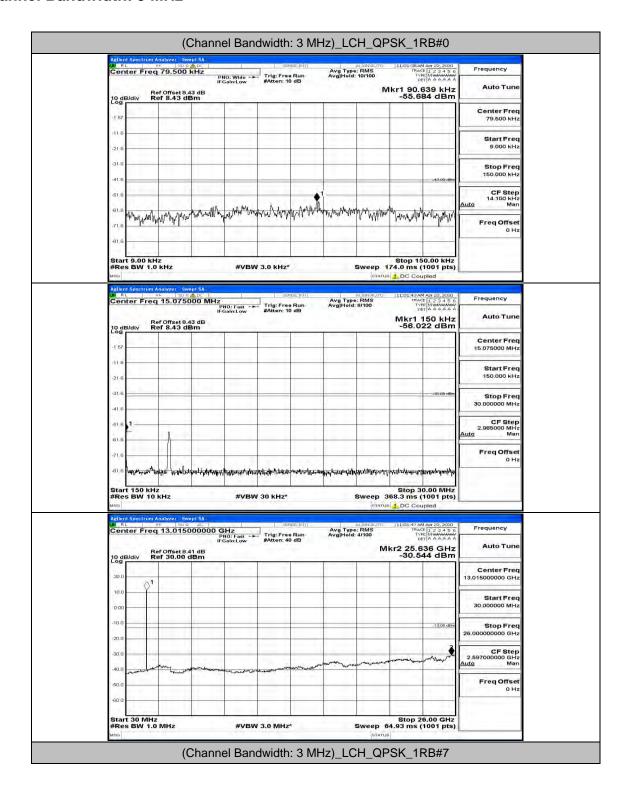
Stop 150.00 kHz Sweep 174.0 ms (1001 pts)

Start 9.00 kHz #Res BW 1.0 kHz

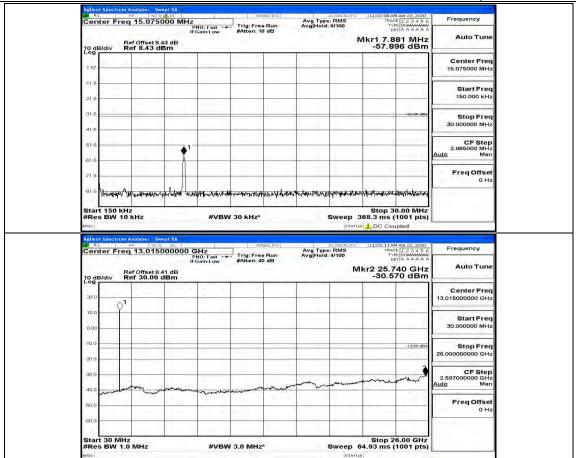


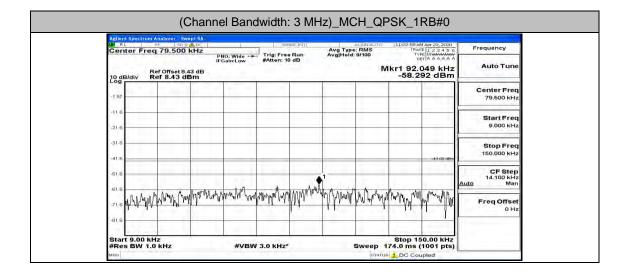


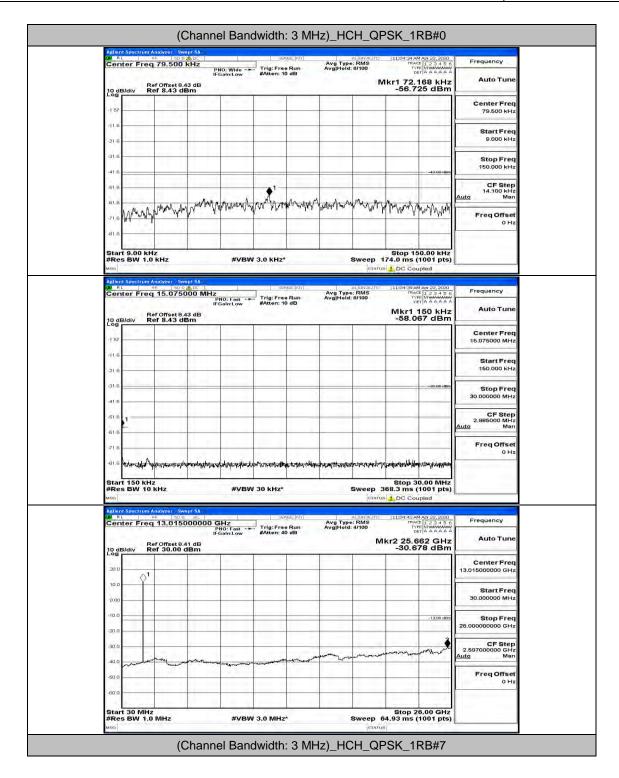
## **Channel Bandwidth: 3 MHz**

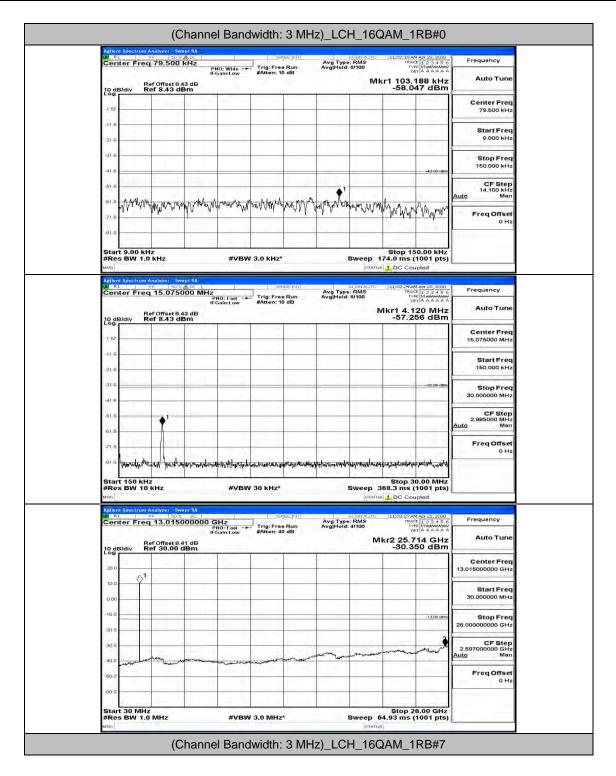


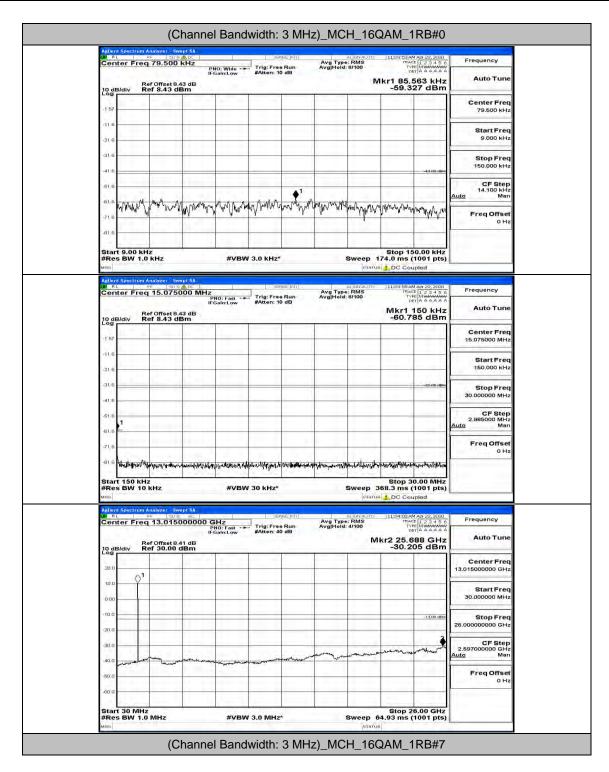


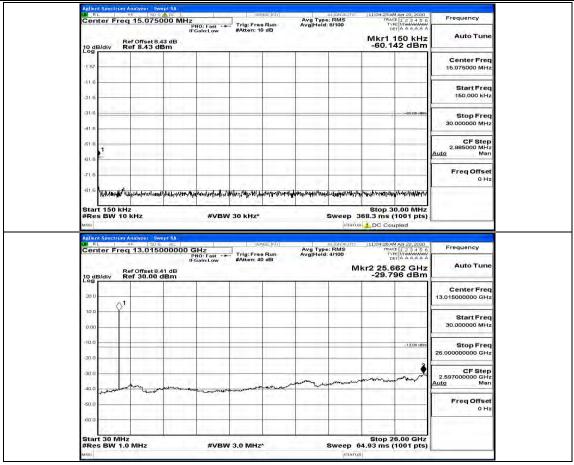


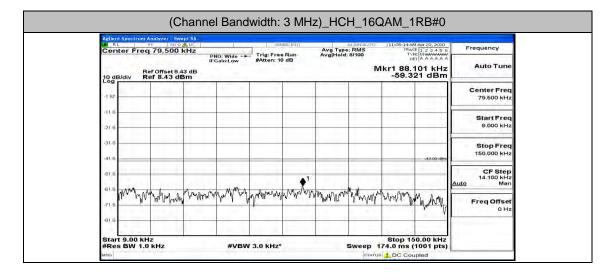












## **Channel Bandwidth: 5 MHz**

