# **Appendix G: Test Data for E-UTRA Band 12**

**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

## **G.1 Conducted Output Power**

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict
Modulation	Channel	Size	Offset	QPSK	16QAM	verdict
		1	0	22.59	21.97	PASS
		1	3	22.59	22.05	PASS
		1	5	22.44	21.85	PASS
	LCH	3	0	22.51	21.56	PASS
		3	2	22.51	21.60	PASS
		3	3	22.40	21.52	PASS
		6	0	22.42	21.41	PASS
	MCH	1	0	24.11	22.93	PASS
		1	3	24.28	23.05	PASS
QPSK /		1	5	24.15	23.04	PASS
16QAM		3	0	24.05	22.89	PASS
TOQAM		3	2	24.18	22.94	PASS
		3	3	24.17	22.96	PASS
		6	0	23.28	22.14	PASS
		1	0	25.02	24.27	PASS
		1	3	24.87	24.20	PASS
		1	5	24.66	23.95	PASS
	HCH	3	0	24.93	24.16	PASS
		3	2	24.86	24.05	PASS
		3	3	24.74	23.94	PASS
		6	0	24.09	23.17	PASS

		Conducte	d Output Po	wer Test Result (Channel Ban	dwidth: 3 MHz)	
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict
Modulation	Channel	Size	Offset	QPSK	16QAM	verdict
		1	0	22.44	21.70	PASS
		1	7	22.31	21.62	PASS
		1	14	21.97	21.26	PASS
	LCH	8	0	22.34	21.45	PASS
		8	4	22.20	21.34	PASS
		8	7	22.03	21.13	PASS
		15	0	22.18	21.20	PASS
	МСН	1	0	23.49	22.76	PASS
		1	7	24.18	23.47	PASS
QPSK /		1	14	24.06	23.34	PASS
16QAM		8	0	23.25	22.03	PASS
TOQAM		8	4	23.43	22.61	PASS
		8	7	23.40	22.37	PASS
		15	0	23.27	22.19	PASS
		1	0	24.66	24.04	PASS
		1	7	25.10	24.54	PASS
		1	14	24.56	24.00	PASS
	HCH	8	0	24.07	23.30	PASS
		8	4	24.06	23.23	PASS
		8	7	24.01	23.19	PASS
ı		15	0	23.90	22.89	PASS

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Madulation	Channal	RB Configuration		Average Power [dBm]	Average Power [dBm]	Vardiat
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	22.29	21.69	PASS
		1	12	22.11	21.54	PASS
		1	24	21.98	21.42	PASS
	LCH	12	0	22.15	21.31	PASS
		12	6	21.95	21.14	PASS
		12	13	21.79	20.99	PASS
		25	0	21.96	21.03	PASS
	МСН	1	0	22.91	22.33	PASS
		1	12	24.14	23.57	PASS
ODCK /		1	24	23.78	23.20	PASS
QPSK / 16QAM		12	0	23.12	22.19	PASS
TOQAIVI		12	6	23.36	22.53	PASS
		12	13	23.31	22.49	PASS
		25	0	23.30	22.15	PASS
		1	0	23.70	22.73	PASS
		1	12	24.88	23.90	PASS
		1	24	24.51	23.33	PASS
	HCH	12	0	23.74	22.69	PASS
		12	6	23.97	22.84	PASS
		12	13	23.92	22.88	PASS
	_	25	0	23.85	23.18	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Madulation	Channal	. RB Configuration		Average Power [dBm]	Average Power [dBm]	\/a nali at
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	21.63	20.92	PASS
		1	24	22.39	21.71	PASS
		1	49	23.35	22.66	PASS
	LCH	25	0	21.75	20.76	PASS
		25	12	22.45	21.45	PASS
		25	25	23.23	22.25	PASS
		50	0	22.51	21.55	PASS
	MCH	1	0	21.05	20.35	PASS
		1	24	24.12	23.43	PASS
QPSK /		1	49	23.20	22.51	PASS
16QAM		25	0	22.83	21.81	PASS
TOQAM		25	12	23.79	22.84	PASS
		25	25	23.37	22.41	PASS
		50	0	23.26	22.30	PASS
		1	0	22.93	22.37	PASS
		1	24	23.96	23.42	PASS
		1	49	24.04	23.53	PASS
	HCH	25	0	23.49	22.54	PASS
		25	12	23.62	22.51	PASS
		25	25	23.79	22.73	PASS
		50	0	23.69	22.66	PASS

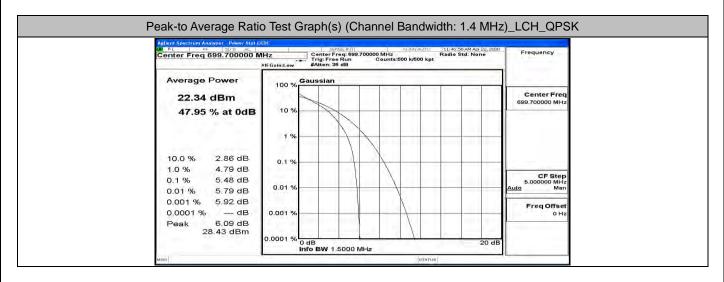
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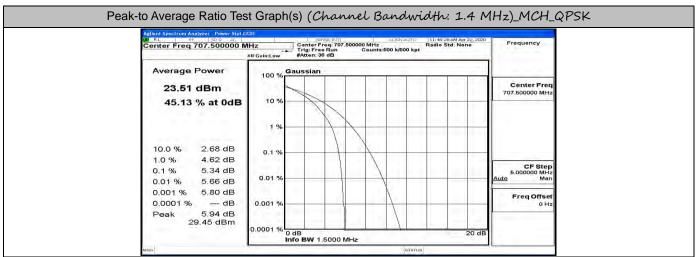
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict	
IVIOGUIATION	Chame	[dB]	[dB]	verdict	
	LCH	5.48	<13	PASS	
QPSK	MCH	5.34	<13	PASS	
	HCH	4.5	<13	PASS	
16QAM	LCH	6.14	<13	PASS	
	MCH	6.28	<13	PASS	
	HCH	5.33	<13	PASS	

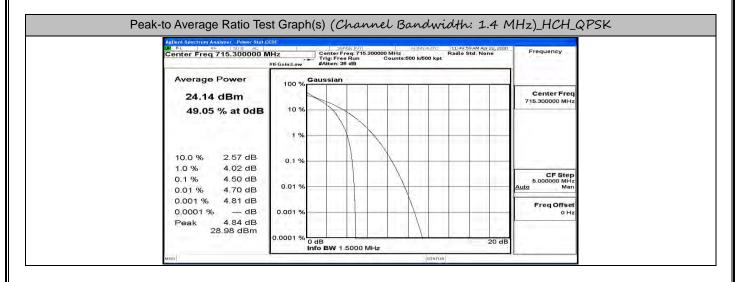
Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
Modulation	Criamilei	[dB]	[dB]	verdict		
	LCH	5.9	<13	PASS		
QPSK	MCH	5.39	<13	PASS		
	HCH	4.82	<13	PASS		
16QAM	LCH	6.51	<13	PASS		
	MCH	6.33	<13	PASS		
	HCH	5.57	<13	PASS		

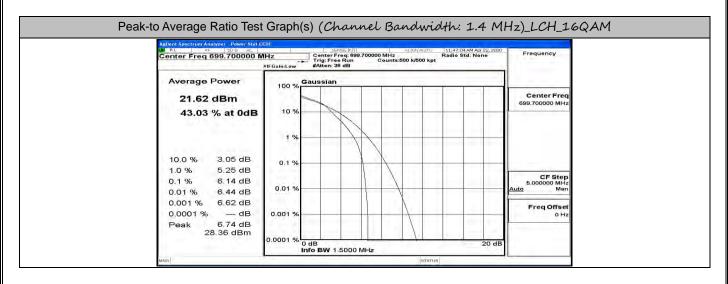
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict	
iviodulation	Griannei	[dB]	[dB]	verdict	
	LCH	5.73	<13	PASS	
QPSK	MCH	5.32	<13	PASS	
	HCH	4.71	<13	PASS	
16QAM	LCH	6.54	<13	PASS	
	MCH	6.21	<13	PASS	
	HCH	5.45	<13	PASS	

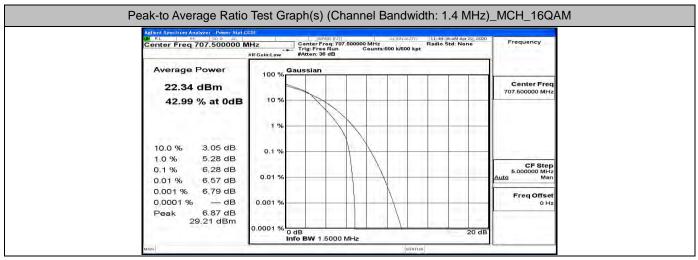
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Vordict	
Modulation	Channel	[dB]	[dB]	Verdict	
	LCH	5.39	<13	PASS	
QPSK	MCH	5.06	<13	PASS	
	HCH	4.94	<13	PASS	
16QAM	LCH	6.1	<13	PASS	
	MCH	5.87	<13	PASS	
	HCH	5.72	<13	PASS	

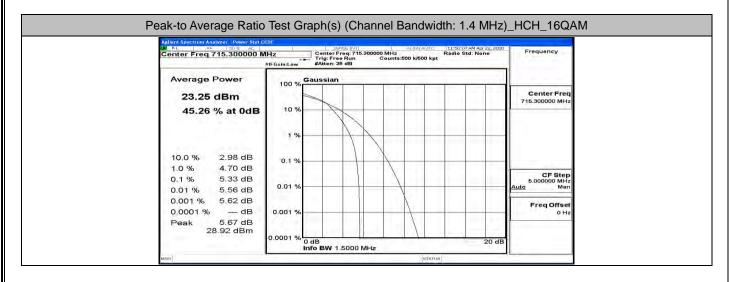


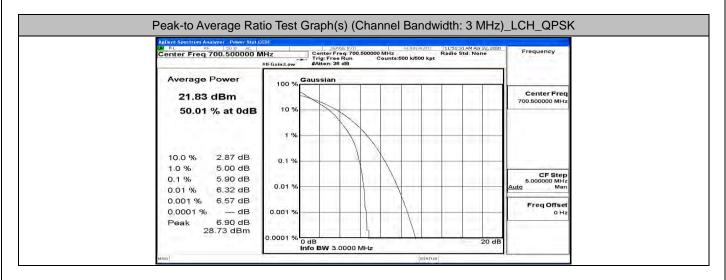


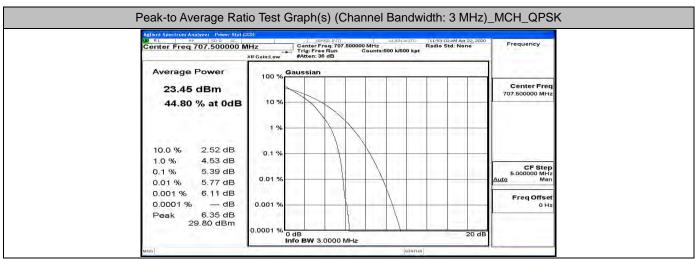


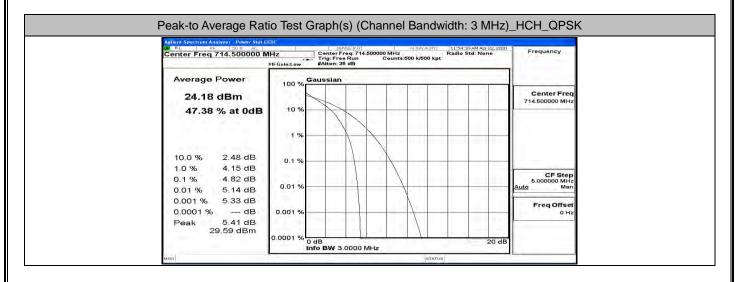


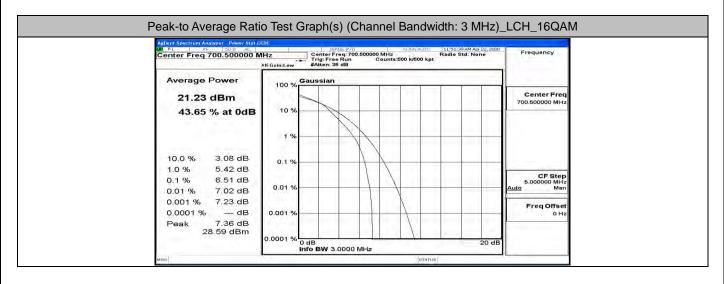


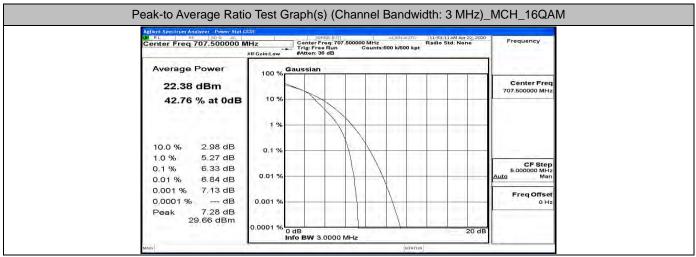


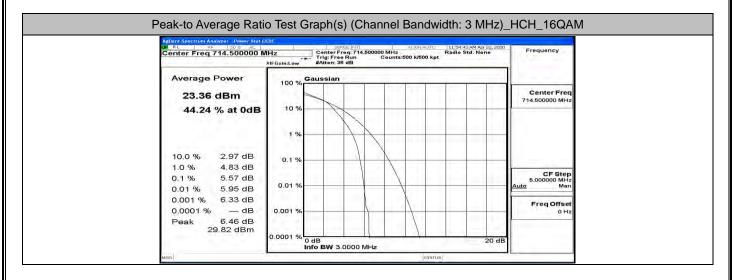


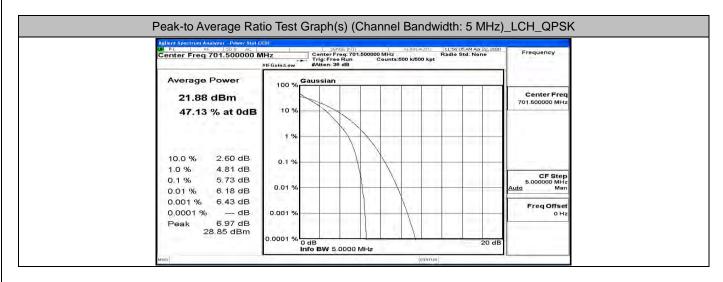


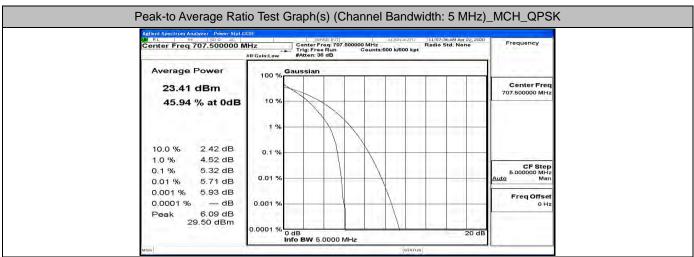


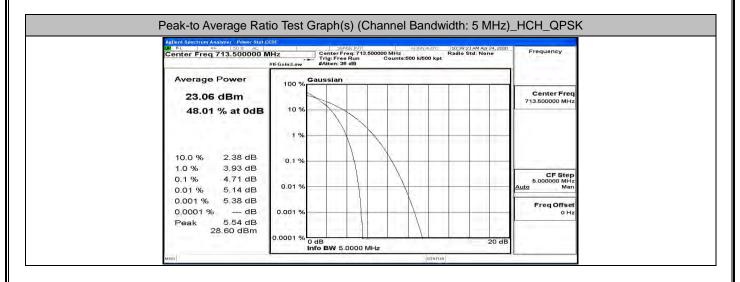


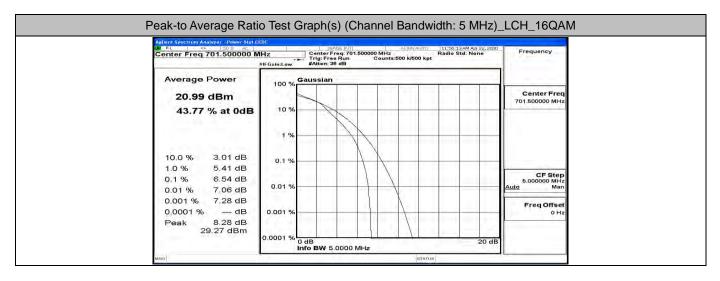


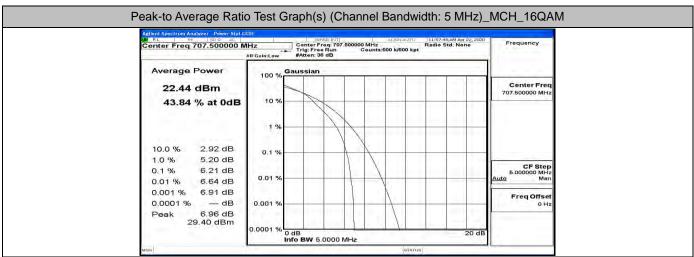


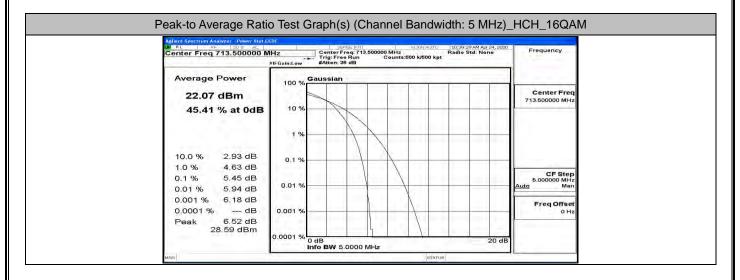


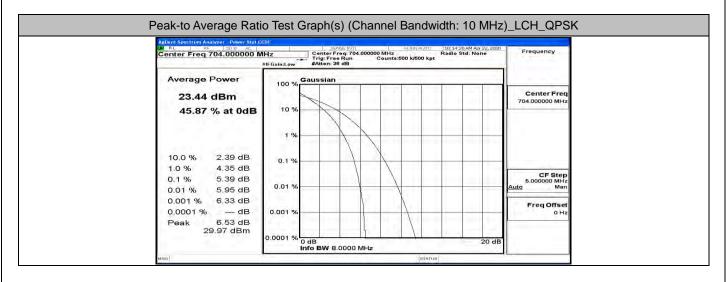


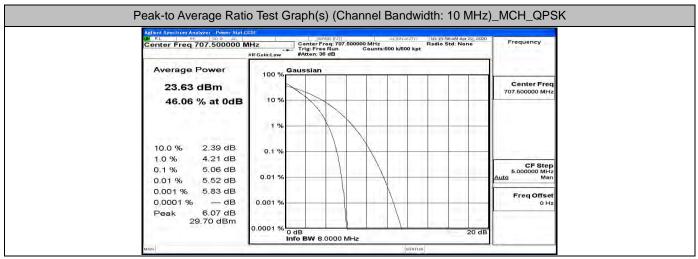


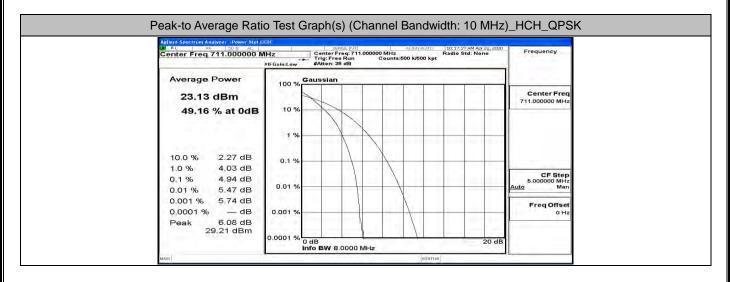


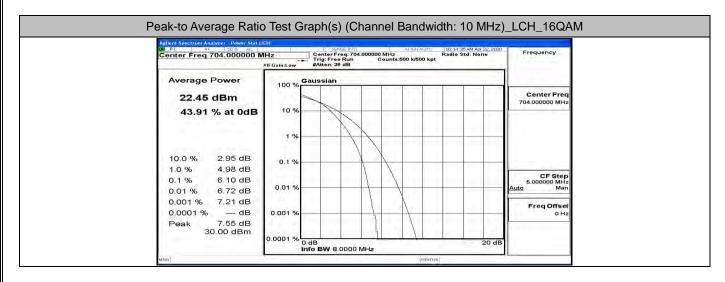


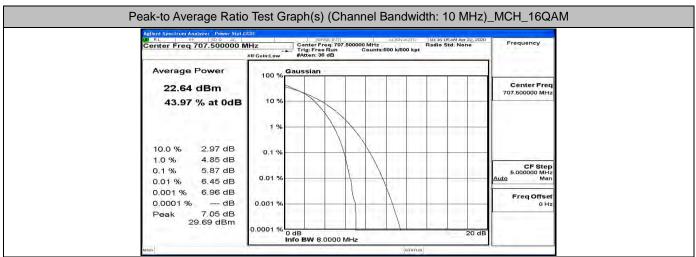


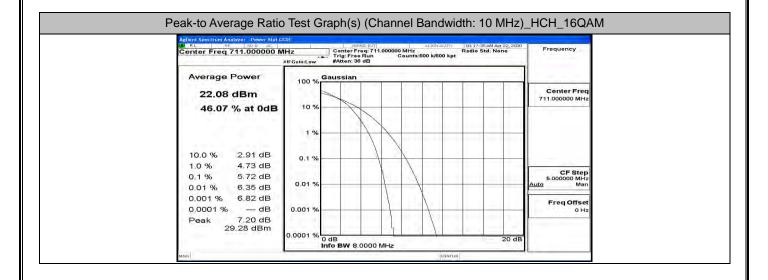












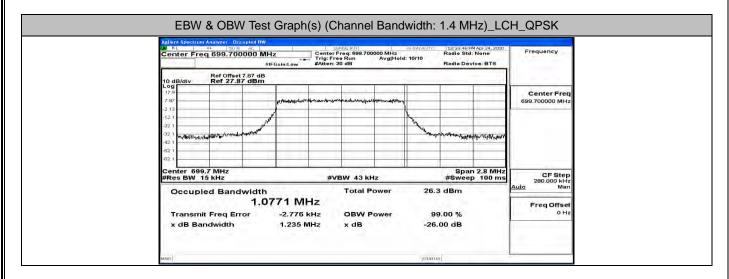
### G.3 26dB Bandwidth and Occupied Bandwidth

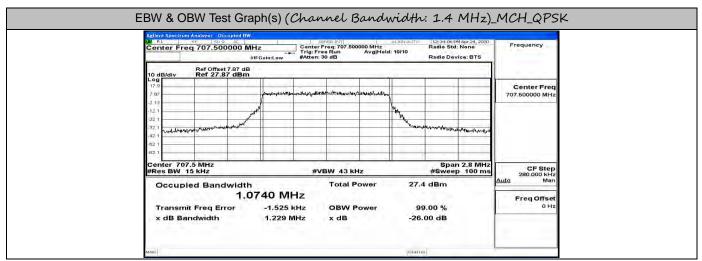
	EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Vordict		
iviodulation	Channel	(MHz)	(MHz)	Verdict		
	LCH	1.0771	1.235	PASS		
QPSK	MCH	1.0740	1.229	PASS		
	HCH	1.0792	1.219	PASS		
16QAM	LCH	1.0796	1.220	PASS		
	MCH	1.0782	1.227	PASS		
	HCH	1.0759	1.220	PASS		

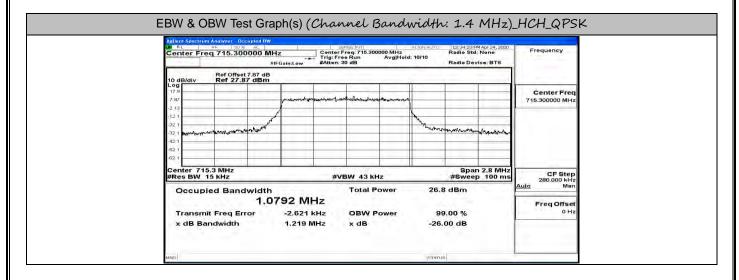
EBW & OBW Test Result (Channel Bandwidth: 3 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation	Charmer	(MHz)	(MHz)	verdict	
QPSK	LCH	2.6812	2.818	PASS	
	MCH	2.6823	2.831	PASS	
	HCH	2.6831	2.823	PASS	
16QAM	LCH	2.6765	2.828	PASS	
	MCH	2.6842	2.844	PASS	
	HCH	2.6774	2.841	PASS	

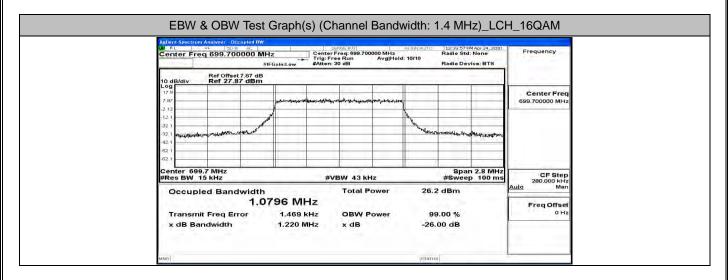
	EBW & OBW Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict			
Modulation	Channel	(MHz)	(MHz)	verdict			
	LCH	4.4689	4.768	PASS			
QPSK	MCH	4.4879	4.865	PASS			
	HCH	4.4750	4.859	PASS			
16QAM	LCH	4.4702	4.848	PASS			
	MCH	4.4737	4.856	PASS			
	HCH	4.4802	4.842	PASS			

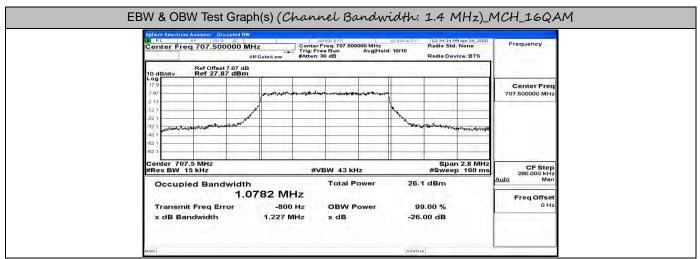
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
		(MHz)	(MHz)	
QPSK	LCH	8.9469	9.474	PASS
	MCH	8.9618	9.521	PASS
	HCH	8.8962	9.413	PASS
16QAM	LCH	8.9383	9.493	PASS
	MCH	8.9620	9.655	PASS
	HCH	8.9199	9.361	PASS

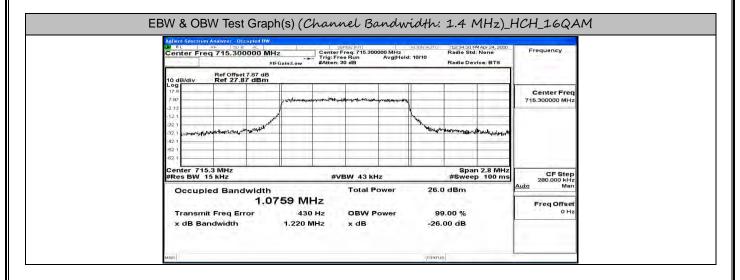


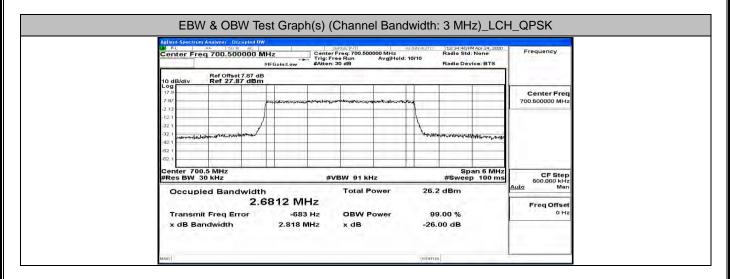


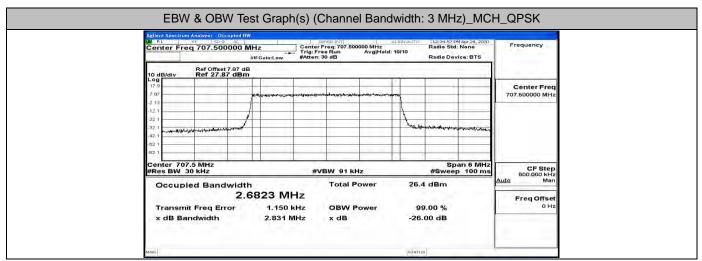


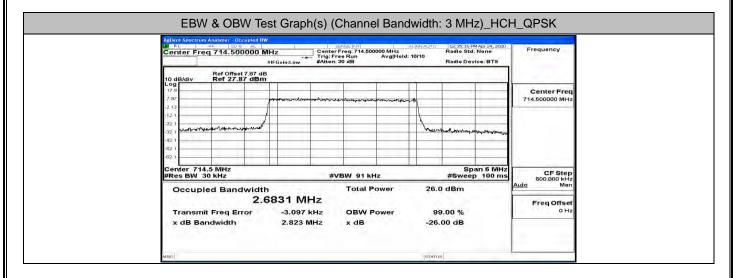


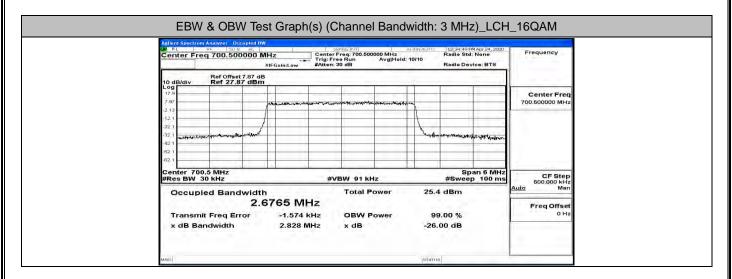


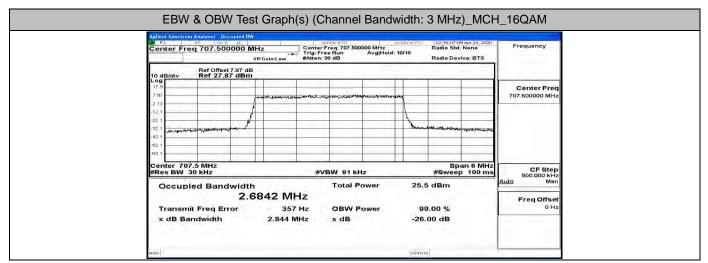


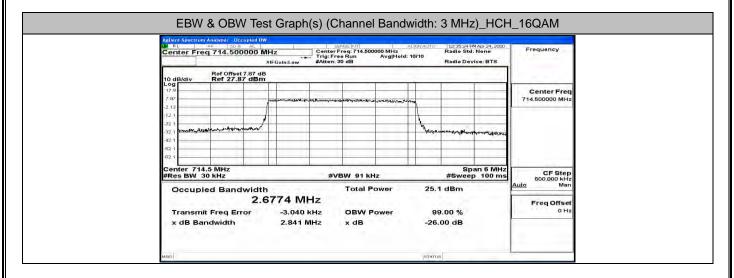


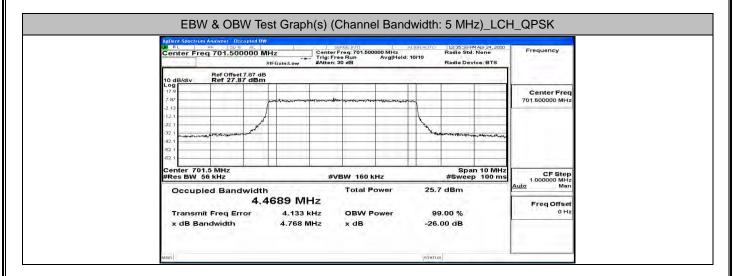


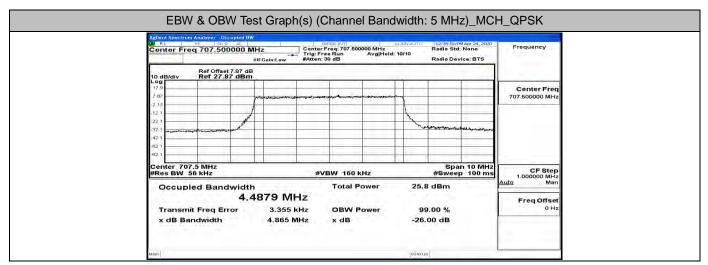


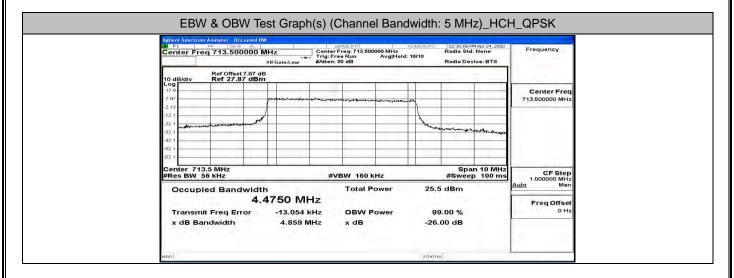


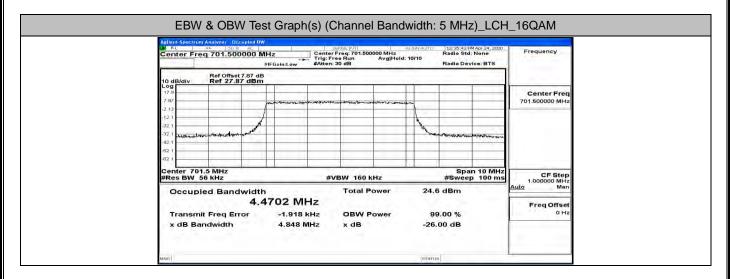


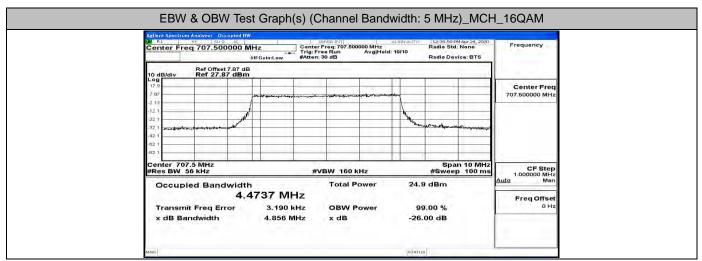


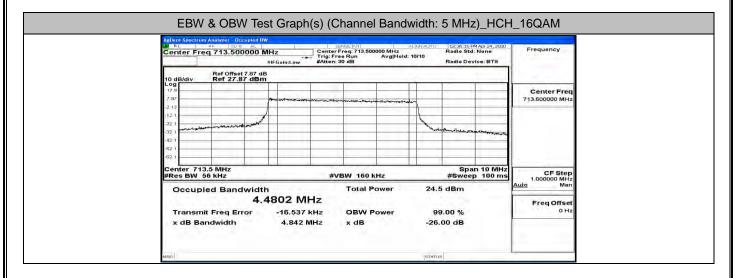


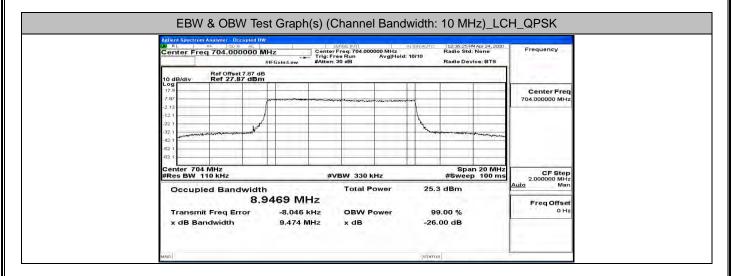


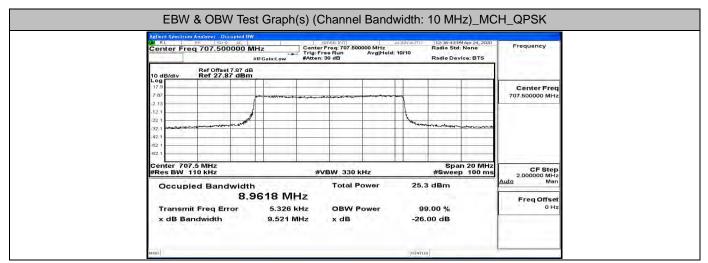


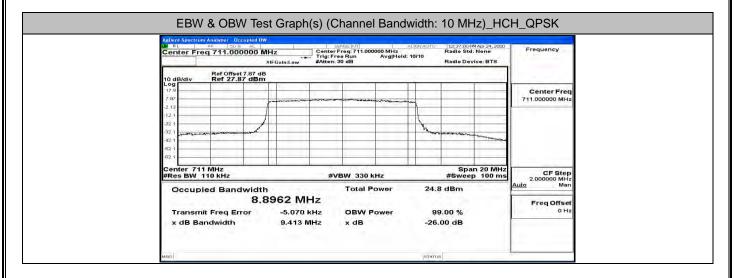


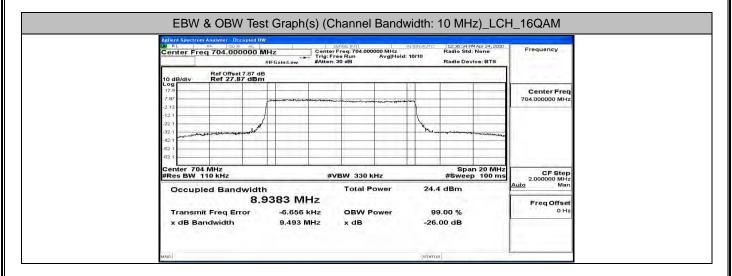


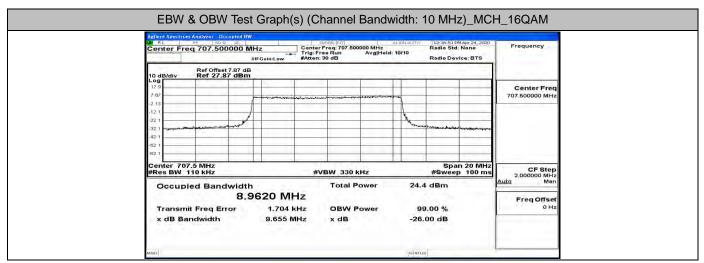


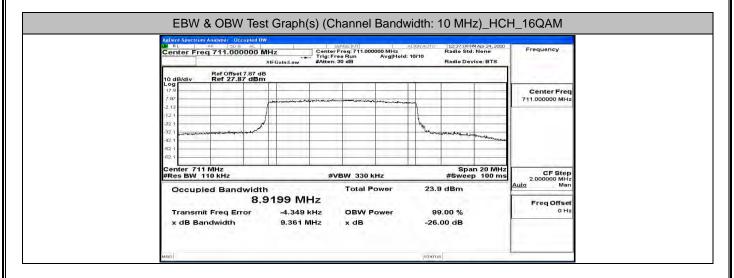




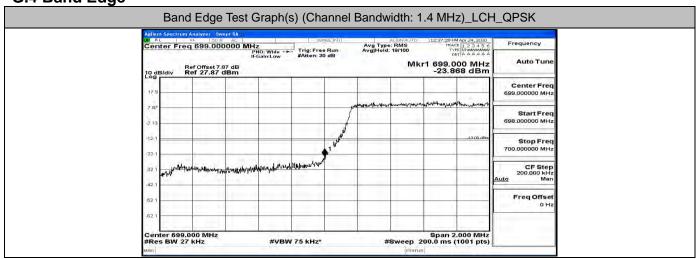


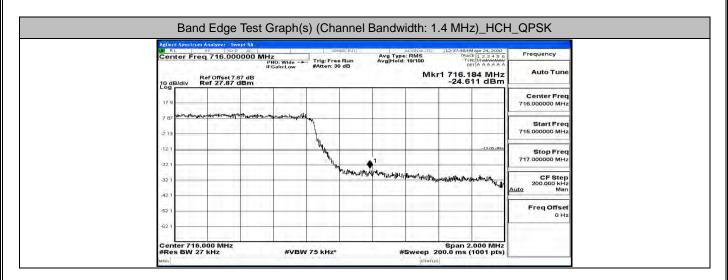


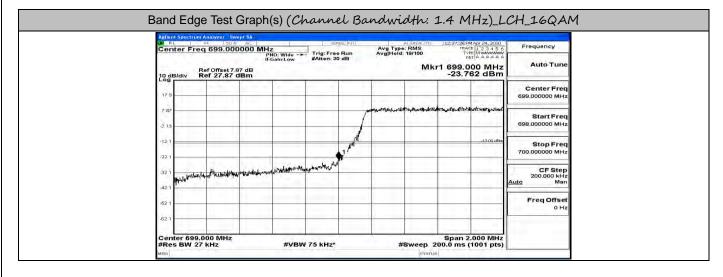


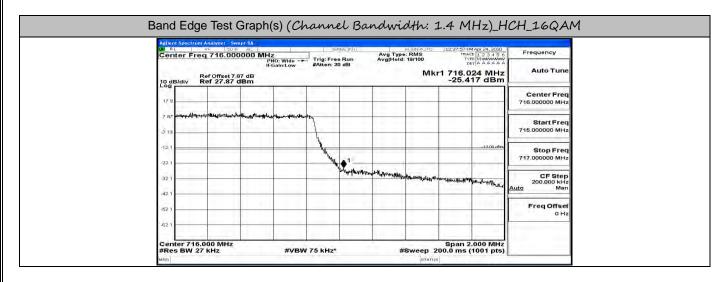


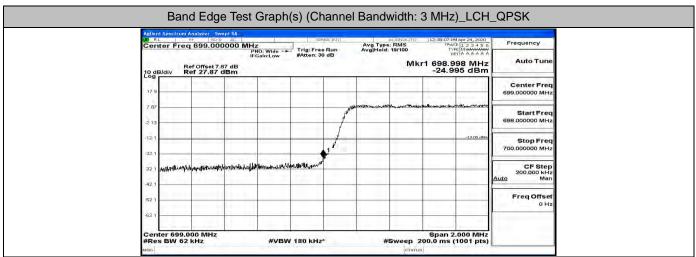
G.4 Band Edge

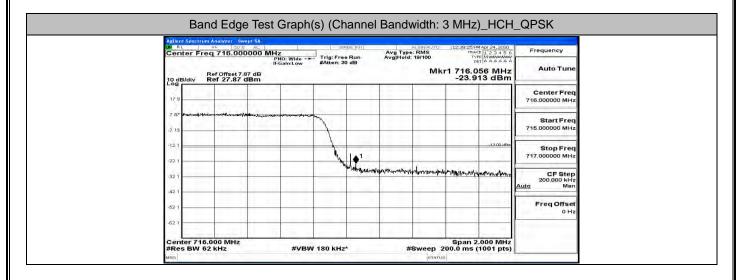


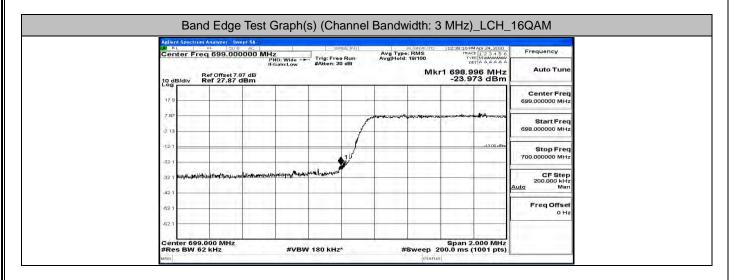


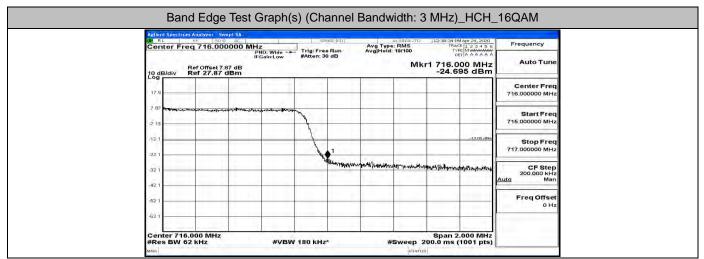


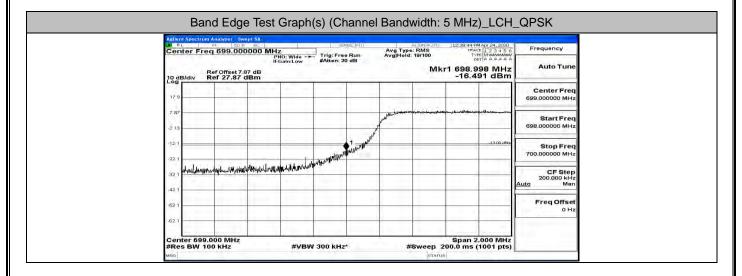


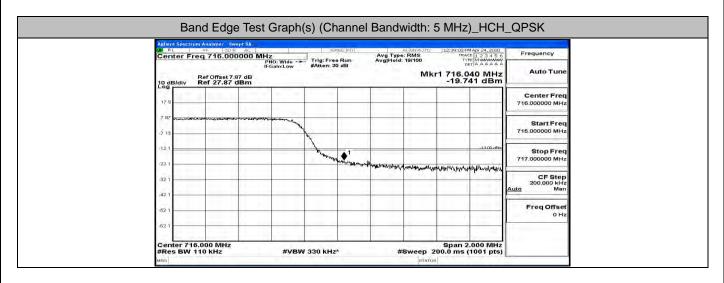


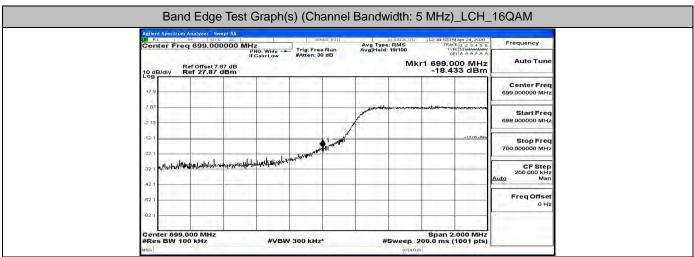


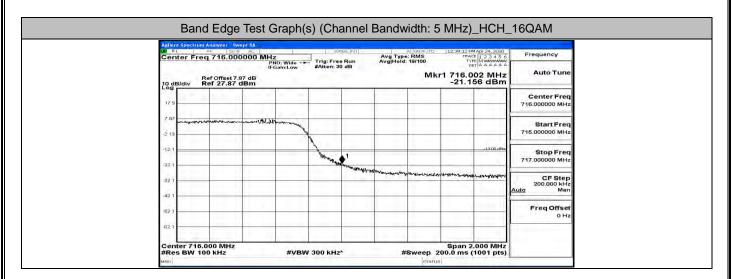




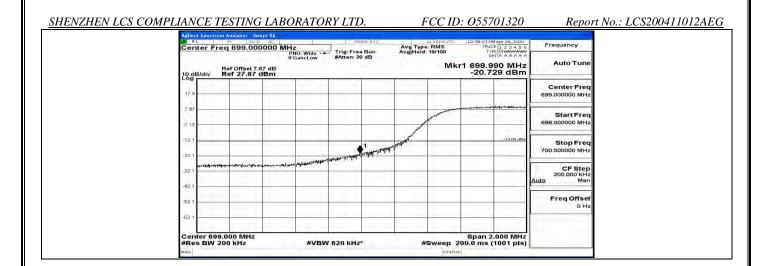


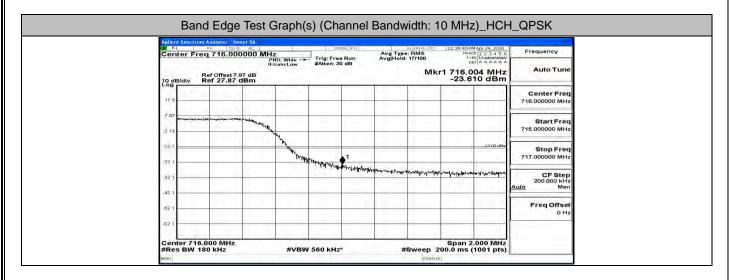


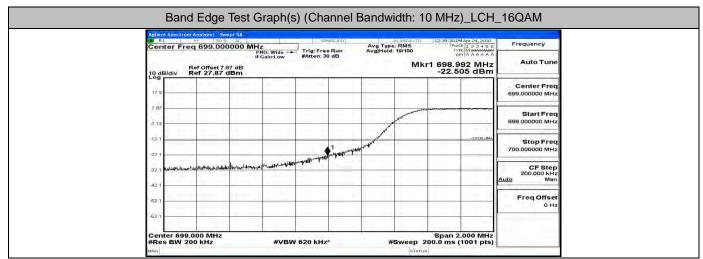


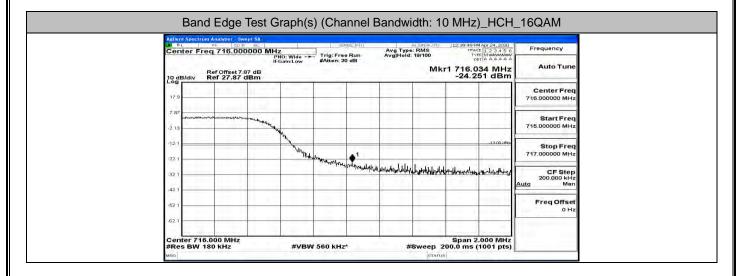


Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



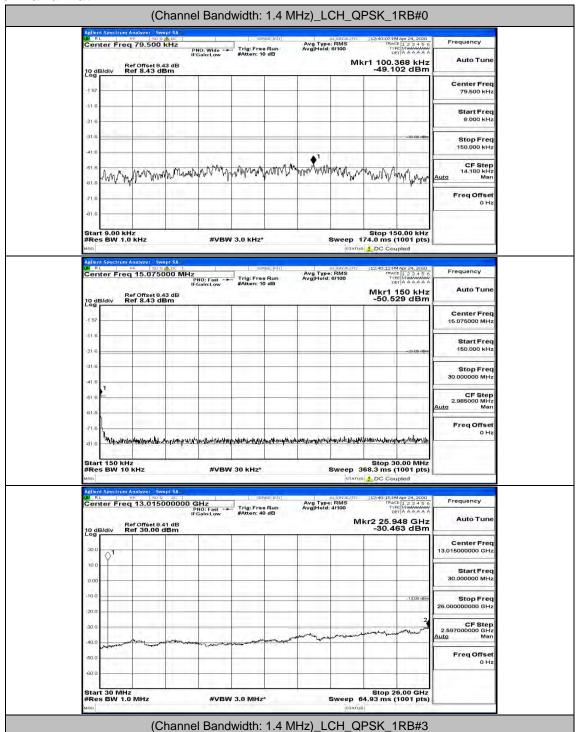




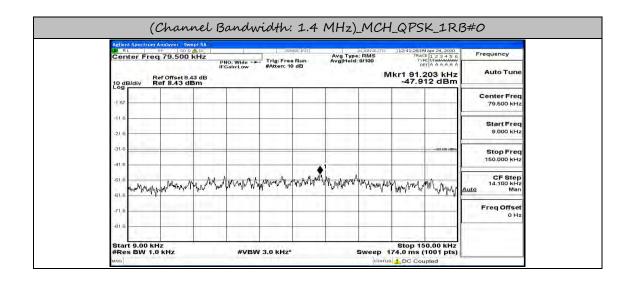


#### **G.5 Conducted Spurious Emission**

#### **Channel Bandwidth: 1.4 MHz**



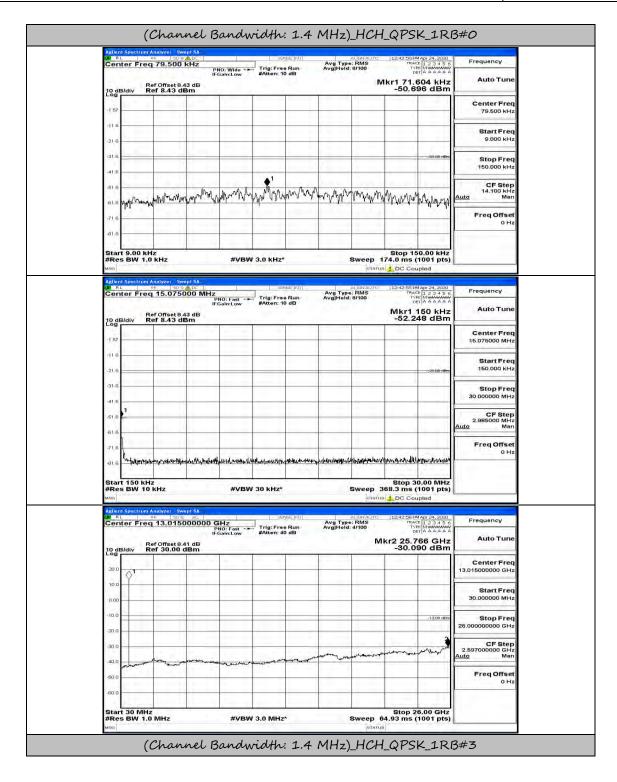
#VBW 3.0 kHz\*



#VBW 3.0 MHz\*

Start 30 MHz #Res BW 1.0 MHz Freq Offset 0 Hz

Stop 26.00 GHz Sweep 64.93 ms (1001 pts)



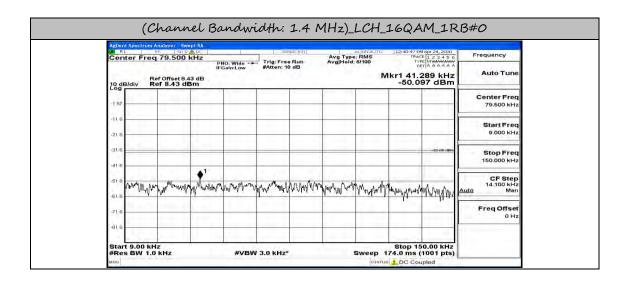
Stop Freq

CF Step 2.597000000 GHz Man

Freq Offset 0 Hz

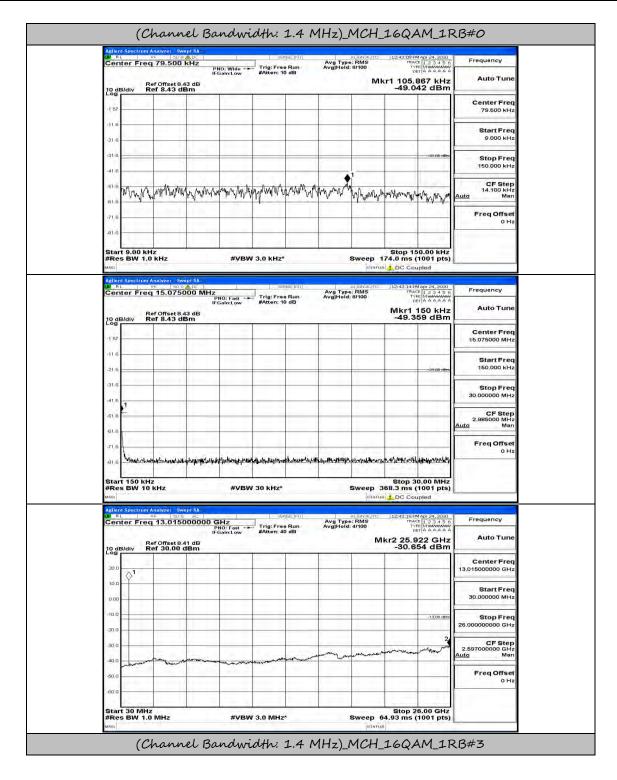
-1 5,00 db

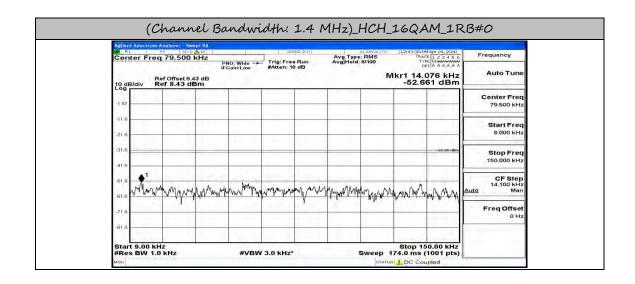
Stop 26.00 GHz Sweep 64.93 ms (1001 pts)



#VBW 3.0 MHz\*

Start 30 MHz #Res BW 1.0 MHz

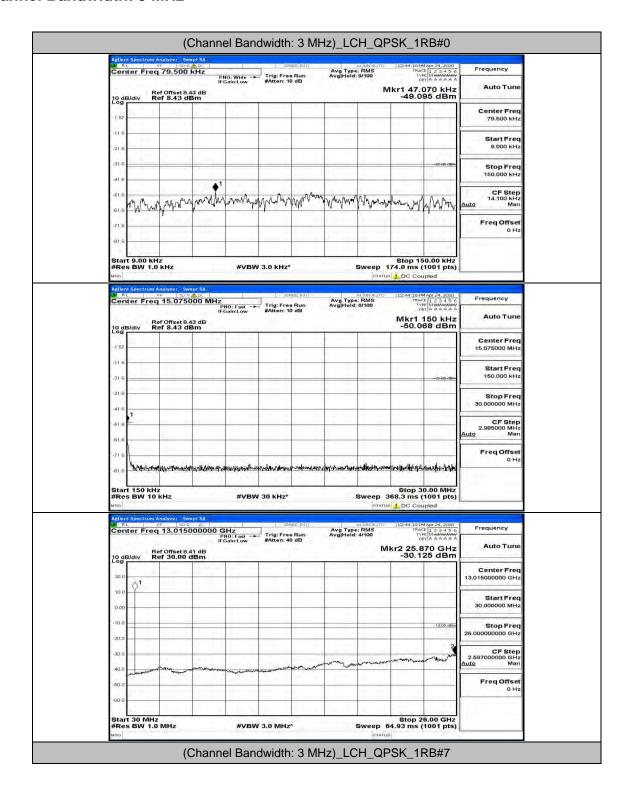




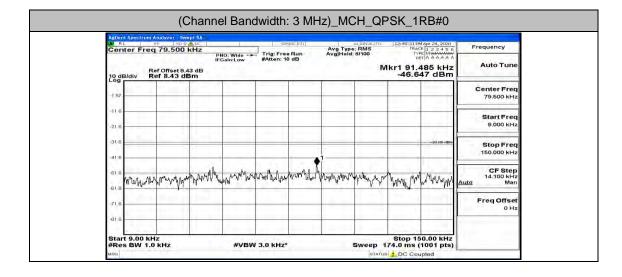
Stop 26.00 GHz Sweep 64.93 ms (1001 pts)

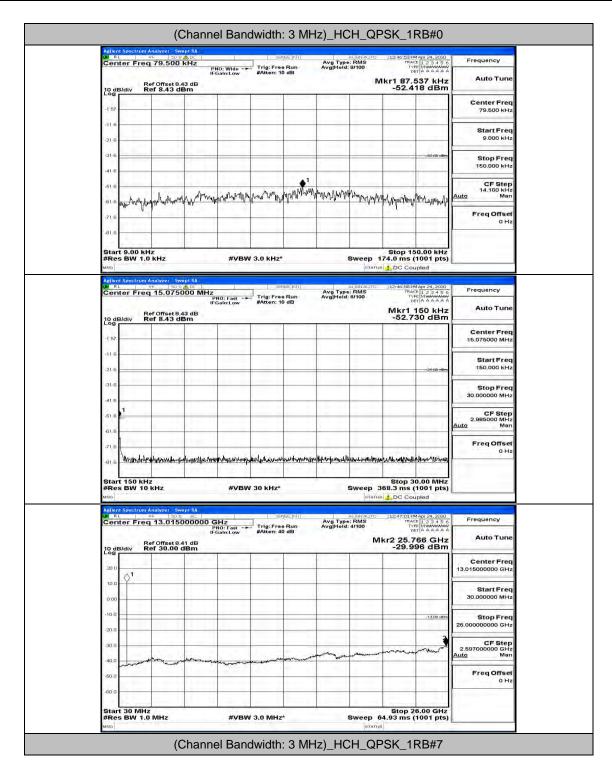
Start 30 MHz #Res BW 1.0 MHz

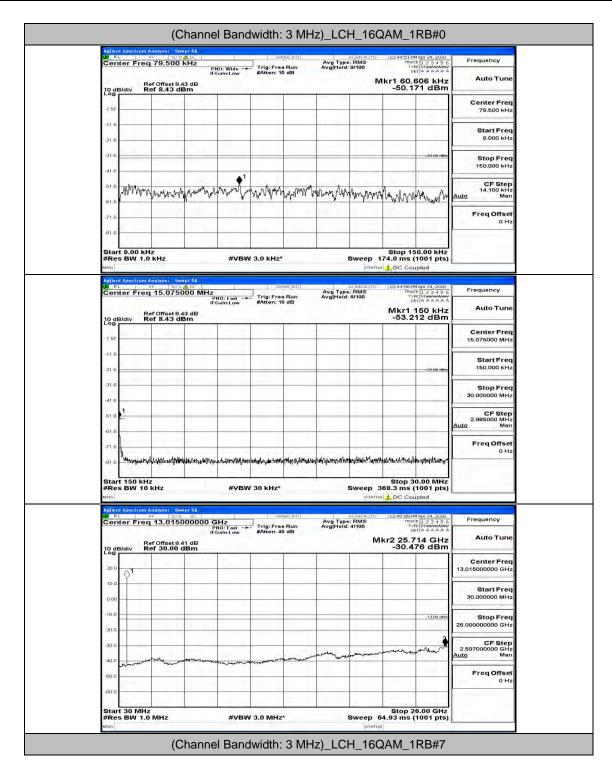
## **Channel Bandwidth: 3 MHz**

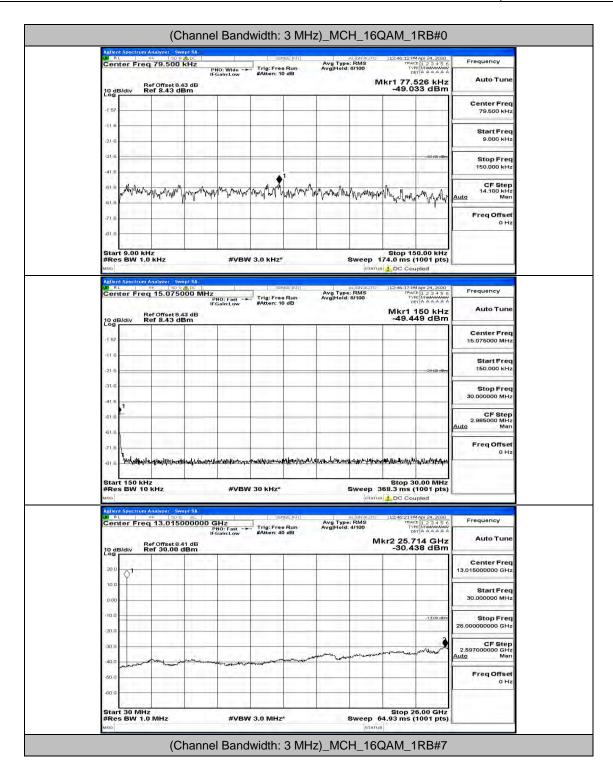


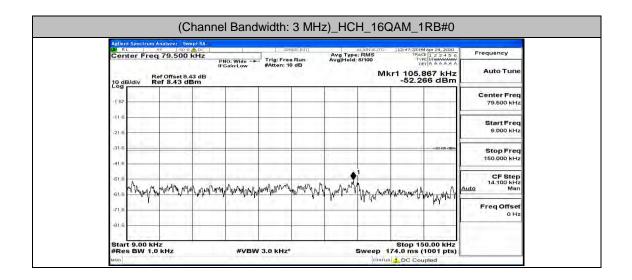








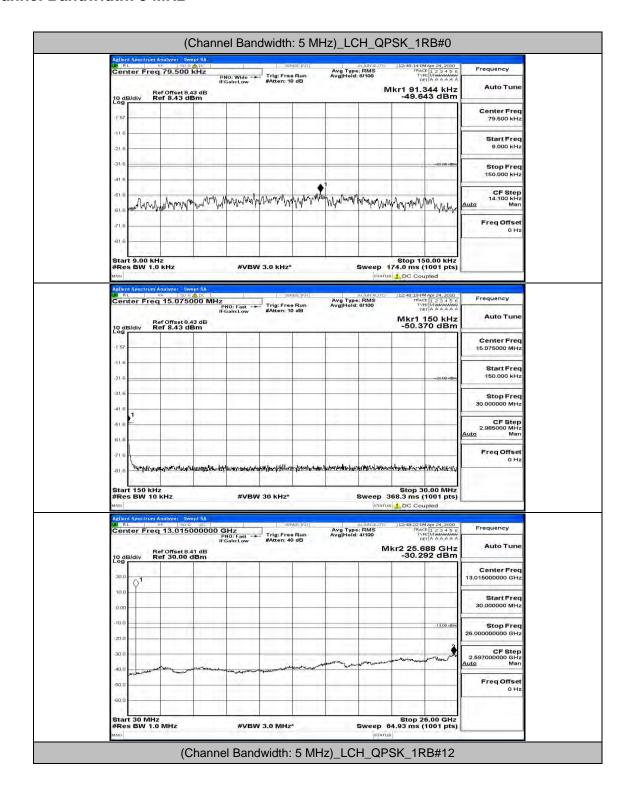


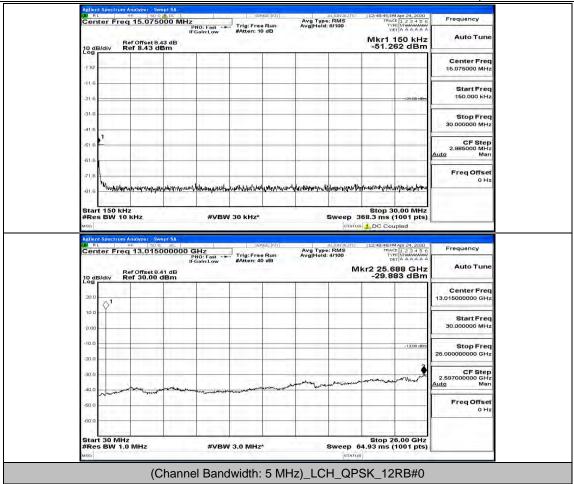


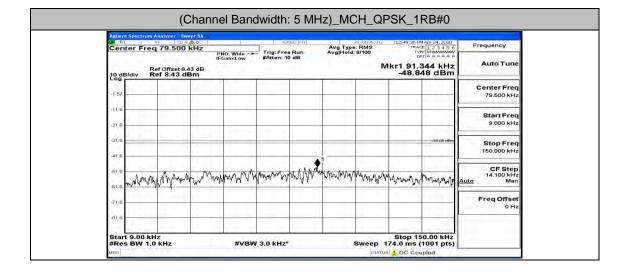
Start 30 MHz #Res BW 1.0 MHz Freq Offset 0 Hz

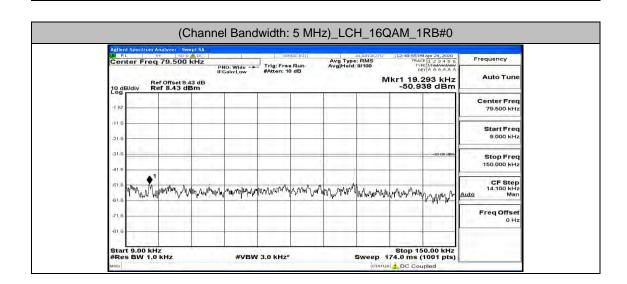
Stop 26.00 GHz Sweep 64.93 ms (1001 pts)

## **Channel Bandwidth: 5 MHz**





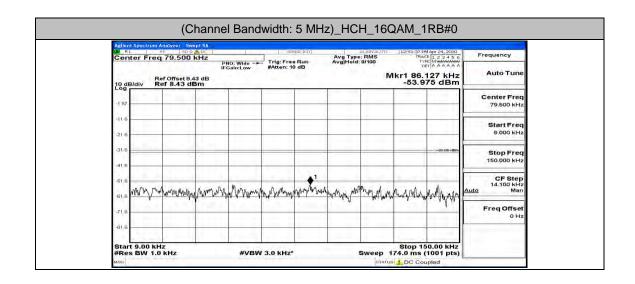




Start 30 MHz #Res BW 1.0 MHz 2.597000000 GHz

Freq Offset 0 Hz

Stop 26.00 GHz Sweep 64.93 ms (1001 pts)



Stop 26.00 GHz Sweep 64.93 ms (1001 pts)

Start 30 MHz #Res BW 1.0 MHz