# Appendix F: Test Data for E-UTRA Band 12

**Product Name: MEITRACK GPS P88L Trade Mark: MEITRACK®Test** Model: P88L-A

#### **Environmental Conditions**

Temperature:	22.8° C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

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

T.I Gollat	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	23.53	22.28	PASS	
		1	3	23.83	22.61	PASS	
		1	5	23.86	22.64	PASS	
	LCH	3	0	23.35	22.02	PASS	
		3	2	23.34	22.02	PASS	
		3	3	23.30	22.25	PASS	
		6	0	23.18	22.25	PASS	
	MCH	1	0	23.39	22.77	PASS	
		1	3	23.36	22.76	PASS	
QPSK /		1	5	23.30	22.65	PASS	
16QAM		3	0	23.46	22.37	PASS	
IOQAM		3	2	23.46	22.38	PASS	
		3	3	23.41	22.31	PASS	
		6	0	23.36	22.42	PASS	
		1	0	24.55	23.77	PASS	
		1	3	24.27	23.55	PASS	
		1	5	24.02	23.20	PASS	
	HCH	3	0	24.44	23.48	PASS	
		3	2	24.43	23.49	PASS	
		3	3	24.13	23.15	PASS	
		6	0	23.66	22.76	PASS	

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/a ndi at
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	23.07	22.18	PASS
		1	7	23.56	22.71	PASS
		1	14	23.63	22.77	PASS
	LCH	8	0	23.28	22.33	PASS
		8	4	23.27	22.33	PASS
		8	7	23.52	22.59	PASS
		15	0	23.38	22.42	PASS
	MCH	1	0	23.40	22.49	PASS
		1	7	23.44	22.61	PASS
QPSK /		1	14	23.29	22.37	PASS
16QAM		8	0	23.31	22.34	PASS
TOQAIVI		8	4	23.31	22.35	PASS
		8	7	23.22	22.28	PASS
		15	0	23.26	22.20	PASS
		1	0	24.75	23.76	PASS
		1	7	24.65	23.37	PASS
		1	14	23.84	23.10	PASS
	HCH	8	0	23.96	22.92	PASS
		8	4	23.96	23.02	PASS
		8	7	23.57	22.50	PASS
		15	0	23.80	22.72	PASS

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict
Modulation	Channel	Size	Offset	QPSK	16QAM	verdict
		1	0	23.02	21.95	PASS
		1	12	23.86	22.85	PASS
		1	24	23.49	22.52	PASS
	LCH	12	0	23.46	22.35	PASS
		12	6	23.44	22.35	PASS
		12	13	23.61	22.54	PASS
		25	0	23.37	22.37	PASS
	мсн	1	0	23.49	22.66	PASS
		1	12	23.56	22.73	PASS
QPSK /		1	24	23.29	22.49	PASS
16QAM		12	0	23.50	22.49	PASS
TOQAW		12	6	23.49	22.50	PASS
		12	13	23.36	22.39	PASS
		25	0	23.35	22.40	PASS
		1	0	24.08	23.25	PASS
		1	12	25.07	24.35	PASS
		1	24	23.87	23.11	PASS
	HCH	12	0	23.72	22.71	PASS
		12	6	23.62	22.71	PASS
		12	13	23.65	22.55	PASS
		25	0	23.75	22.66	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	22.40	21.57	PASS
		1	24	23.83	23.01	PASS
		1	49	22.51	21.66	PASS
	LCH	25	0	23.25	22.24	PASS
		25	12	23.25	22.25	PASS
		25	25	23.23	22.23	PASS
		50	0	23.19	22.21	PASS
	MCH	1	0	22.79	21.96	PASS
		1	24	23.44	22.63	PASS
QPSK /		1	49	23.68	22.87	PASS
16QAM		25	0	23.21	22.26	PASS
TOQAM		25	12	23.21	22.27	PASS
		25	25	23.34	22.39	PASS
		50	0	23.21	22.27	PASS
		1	0	22.62	21.56	PASS
		1	24	23.92	23.19	PASS
		1	49	23.14	22.42	PASS
	HCH	25	0	22.98	22.00	PASS
		25	12	22.98	21.99	PASS
		25	25	24.19	23.24	PASS
		50	0	23.72	22.75	PASS

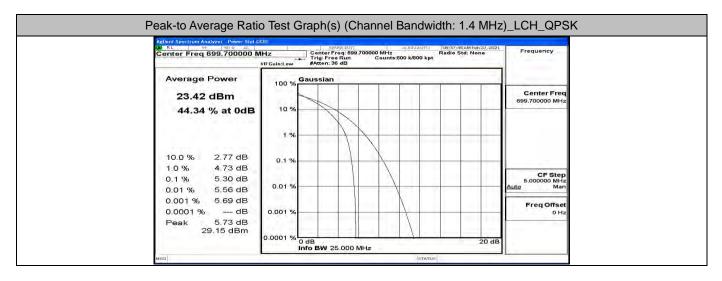
## F.2 Peak-to-Average Ratio

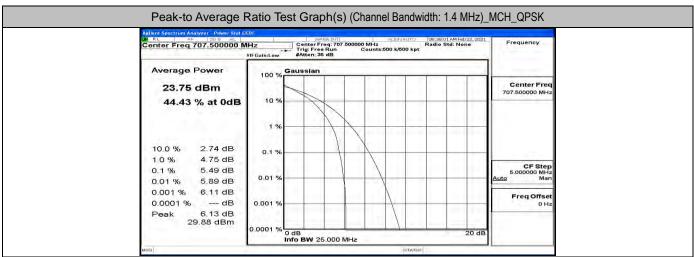
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
Modulation	Griannei	[dB]	[dB]	verdict		
	LCH	5.3	<13	PASS		
QPSK	MCH	5.49	<13	PASS		
	HCH	4.25	<13	PASS		
16QAM	LCH	6.24	<13	PASS		
	MCH	6.31	<13	PASS		
	HCH	5.02	<13	PASS		

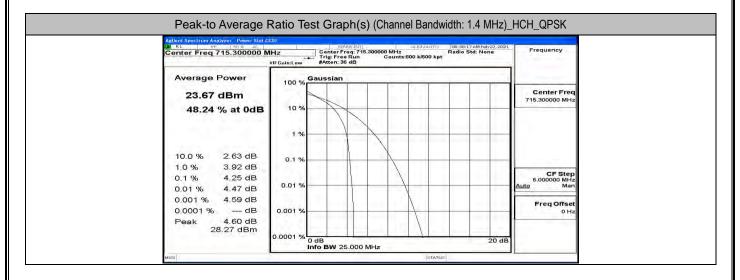
Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
Modulation	Channel	[dB]	[dB]	verdict		
	LCH	5.35	<13	PASS		
QPSK	MCH	5.53	<13	PASS		
	HCH	4.29	<13	PASS		
16QAM	LCH	6.24	<13	PASS		
	MCH	6.38	<13	PASS		
	HCH	5.11	<13	PASS		

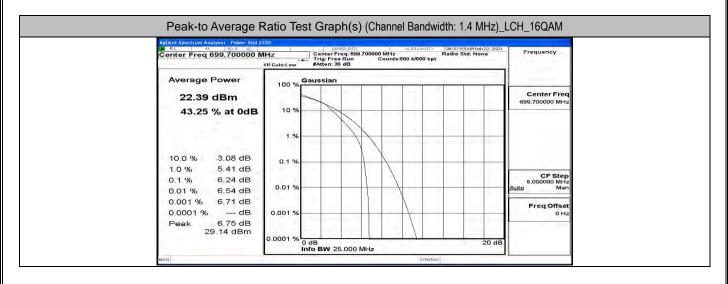
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Vordict		
Modulation	Griannei	[dB]	[dB]	Verdict		
	LCH	5.31	<13	PASS		
QPSK	MCH	5.52	<13	PASS		
	HCH	4.67	<13	PASS		
16QAM	LCH	6.06	<13	PASS		
	MCH	6.35	<13	PASS		
	HCH	5.48	<13	PASS		

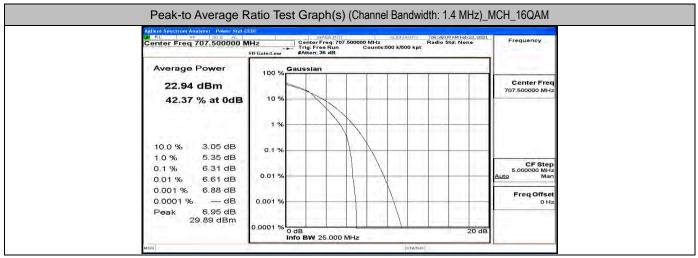
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
Modulation	Griannei	[dB]	[dB]	verdict		
	LCH	5.38	<13	PASS		
QPSK	MCH	5.48	<13	PASS		
	HCH	5.09	<13	PASS		
	LCH	6.23	<13	PASS		
16QAM	MCH	6.37	<13	PASS		
	HCH	5.96	<13	PASS		

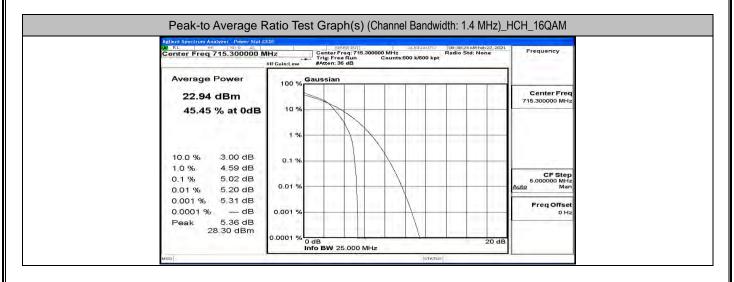


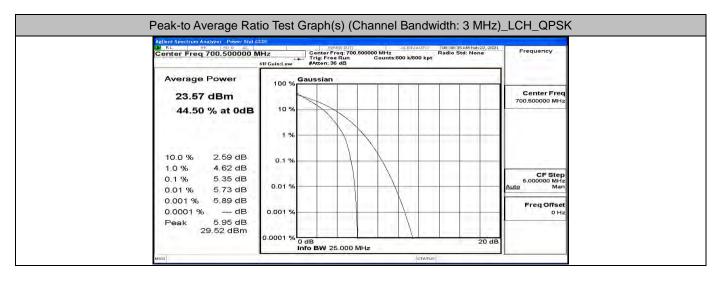


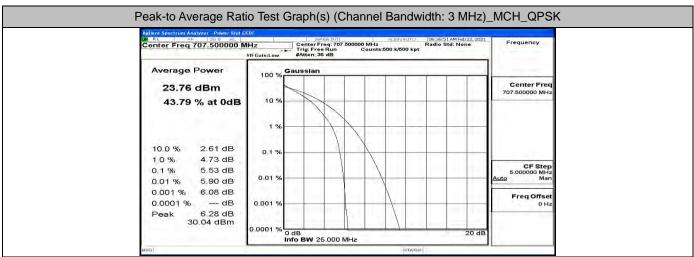


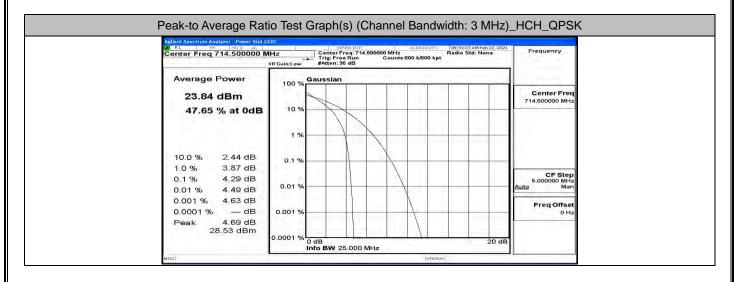


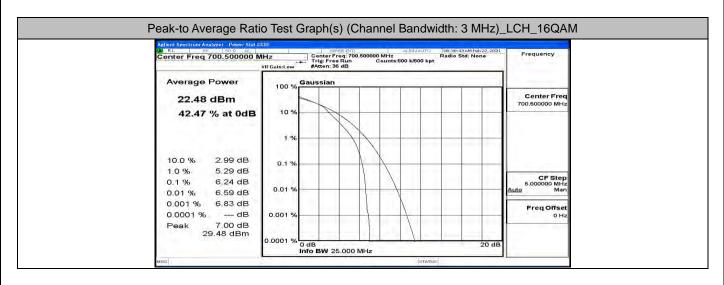


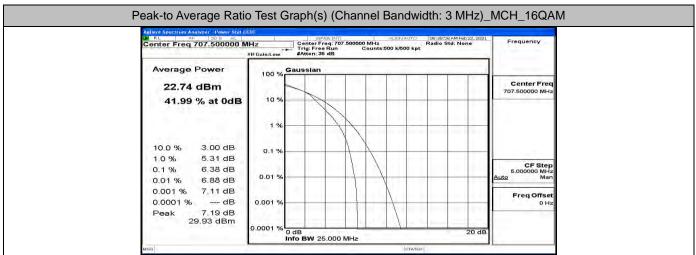


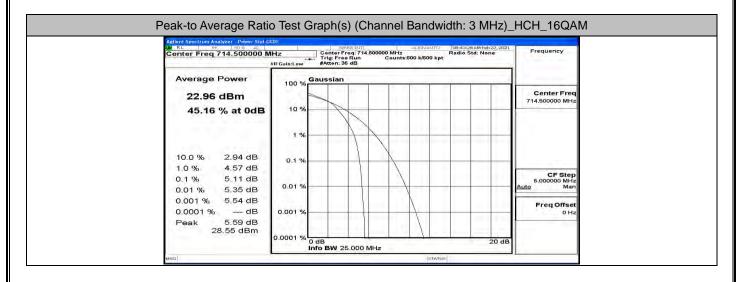


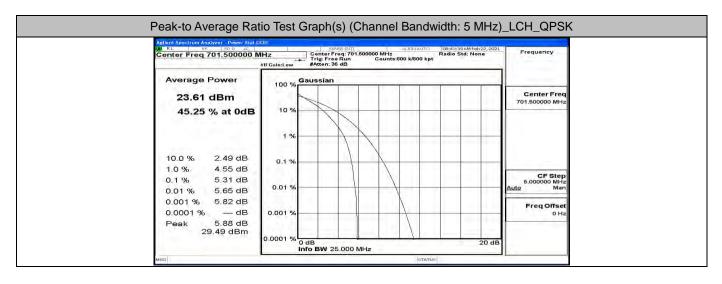


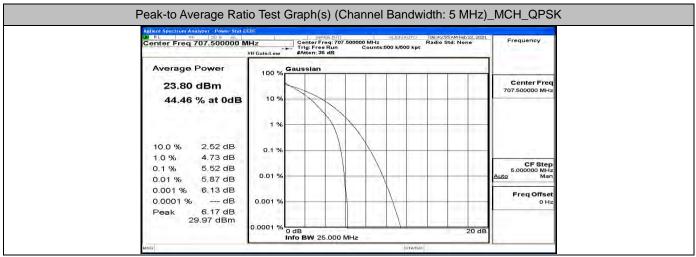


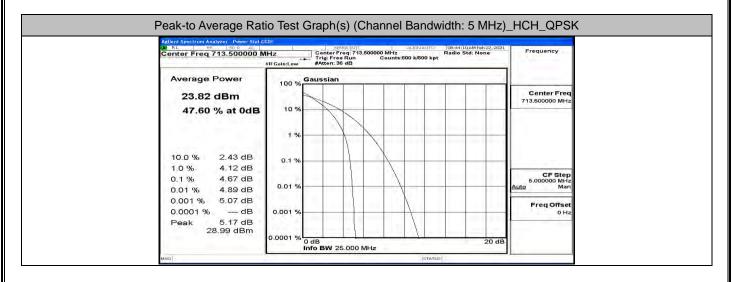


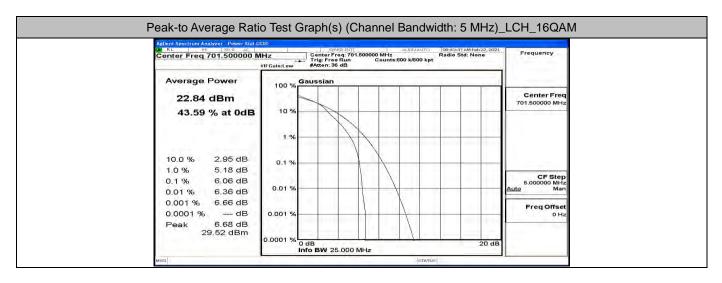


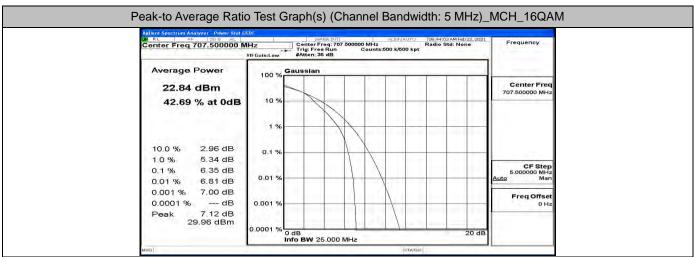


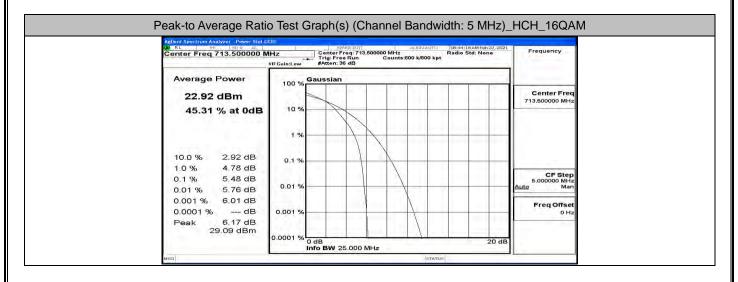


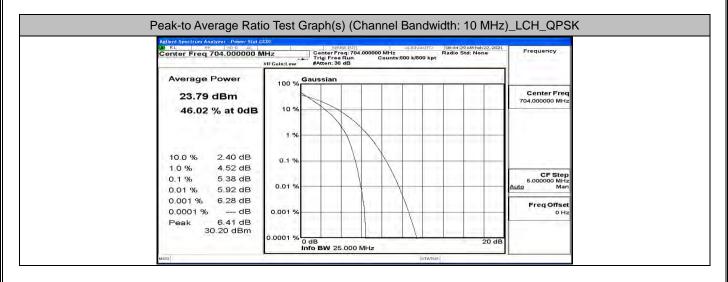


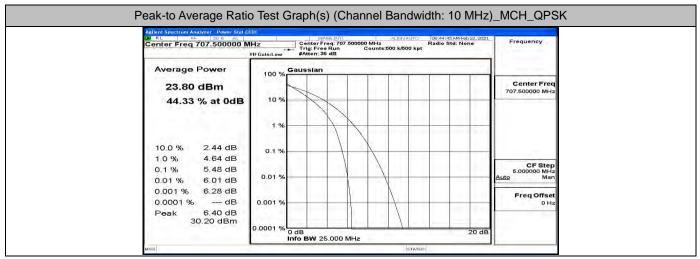


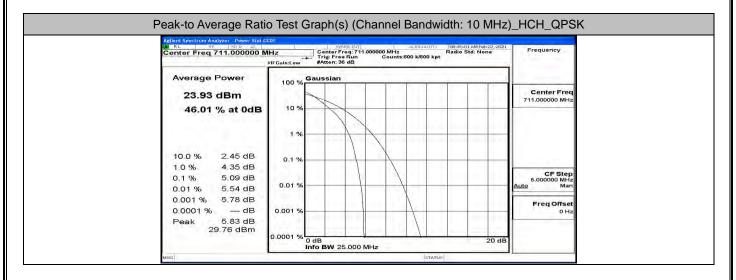


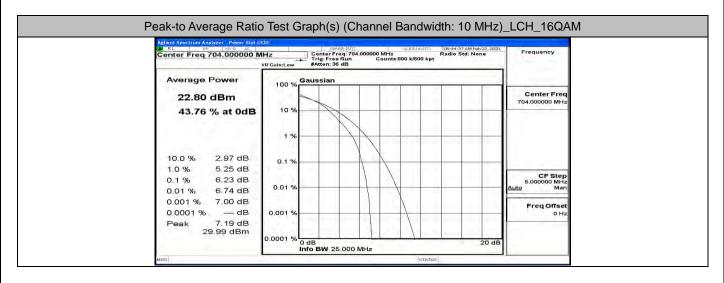


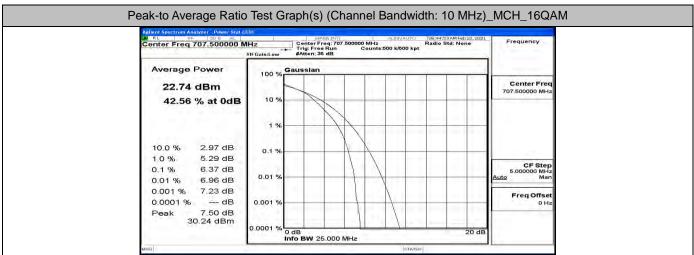


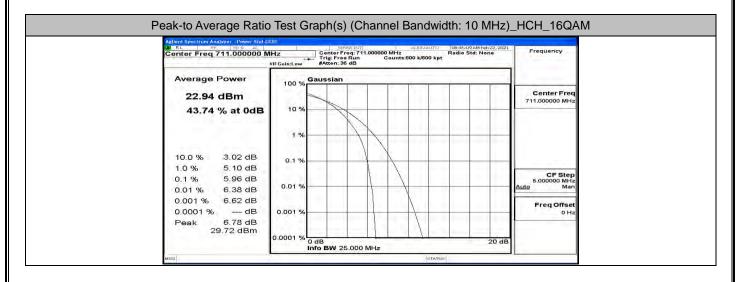












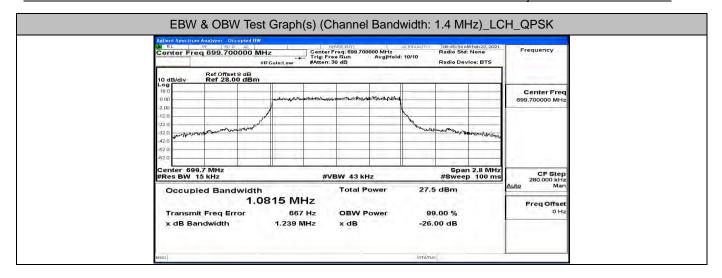
# F.3 26dB Bandwidth and Occupied Bandwidth

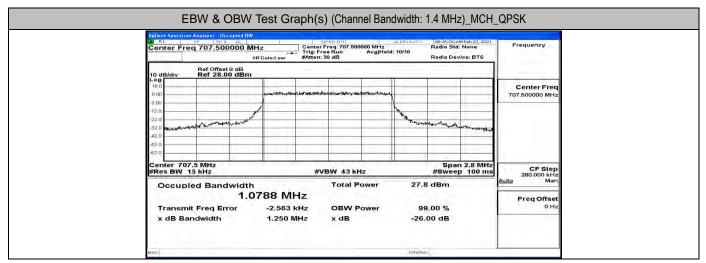
	EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict			
iviodulation	Grianner	(MHz)	(MHz)	verdict			
	LCH	1.0815	1.239	PASS			
QPSK	MCH	1.0788	1.250	PASS			
	HCH	1.0773	1.224	PASS			
16QAM	LCH	1.0802	1.226	PASS			
	MCH	1.0787	1.210	PASS			
	HCH	1.0798	1.249	PASS			

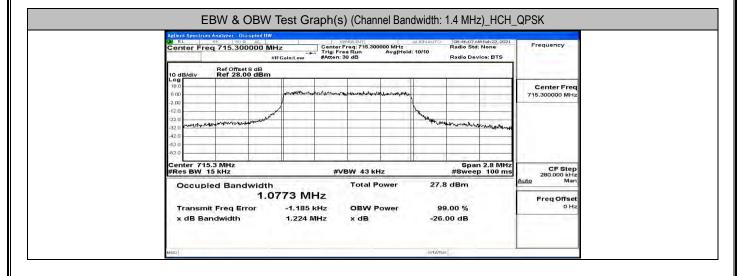
EBW & OBW Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Vordiet		
Modulation	Channel	(MHz)	(MHz)	Verdict		
	LCH	2.6858	2.872	PASS		
QPSK	MCH	2.6872	2.887	PASS		
	HCH	2.6778	2.883	PASS		
16QAM	LCH	2.6783	2.916	PASS		
	MCH	2.6824	2.878	PASS		
	HCH	2.6758	2.907	PASS		

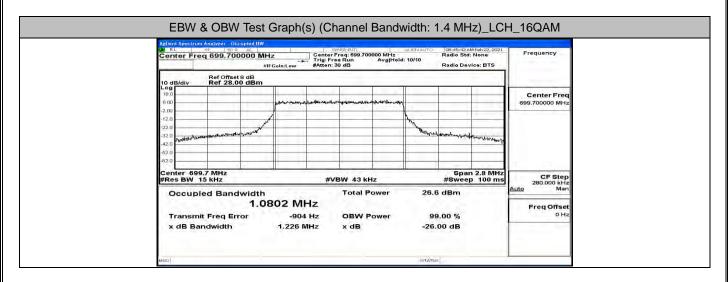
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict		
IVIOGUIATION	Griannei	(MHz)	(MHz)	verdict		
QPSK	LCH	4.4641	4.631	PASS		
	MCH	4.4731	4.843	PASS		
	HCH	4.4592	4.769	PASS		
16QAM	LCH	4.4643	4.773	PASS		
	MCH	4.4754	4.850	PASS		
	HCH	4.4669	4.755	PASS		

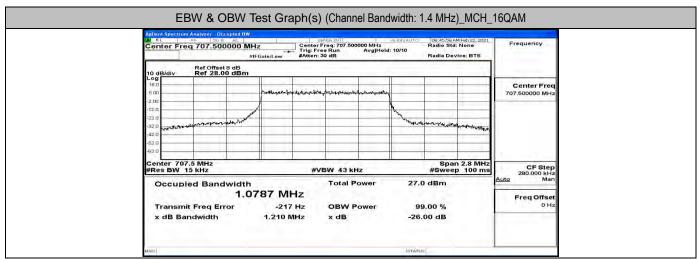
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
		(MHz)	(MHz)	
QPSK	LCH	8.9344	9.494	PASS
	MCH	8.9624	9.475	PASS
	HCH	8.9143	9.330	PASS
16QAM	LCH	8.9256	9.358	PASS
	MCH	8.9316	9.412	PASS
	HCH	8.9094	9.373	PASS

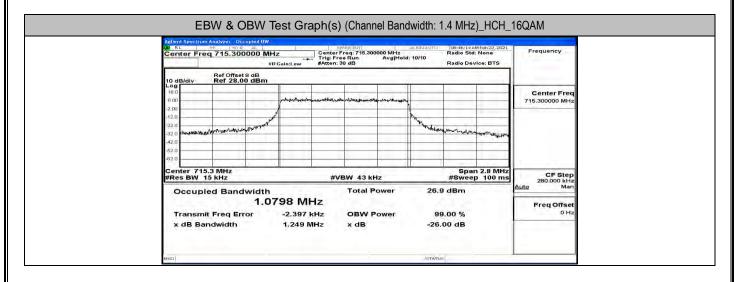


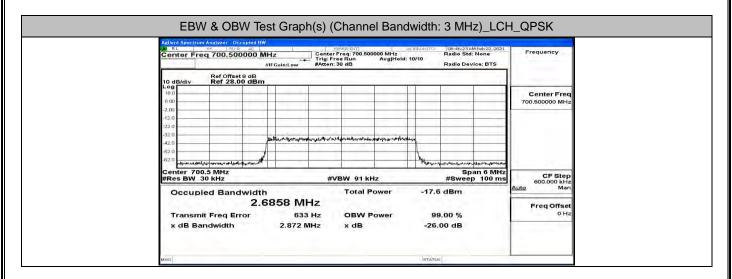


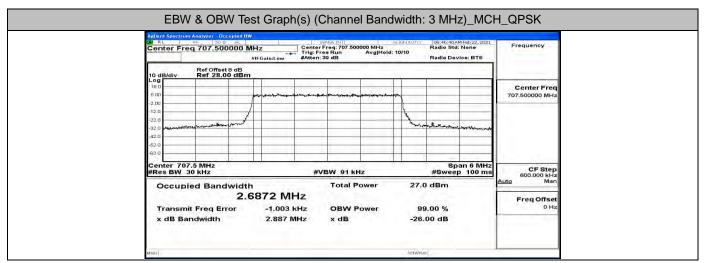


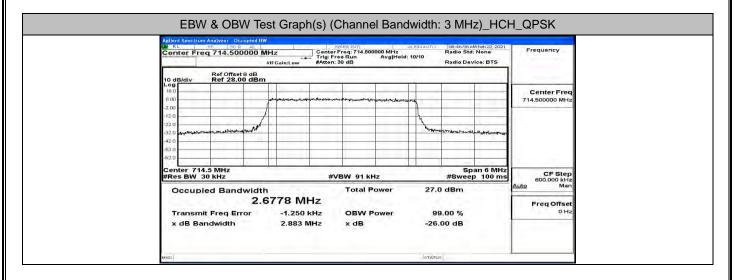


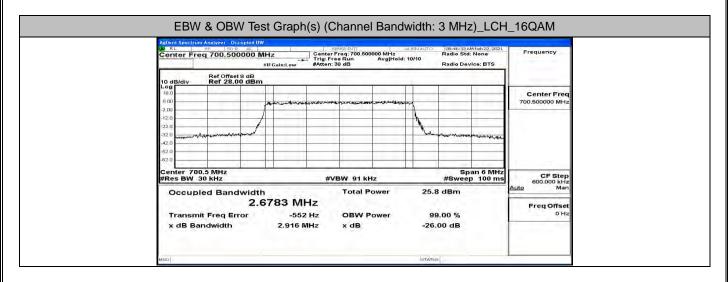


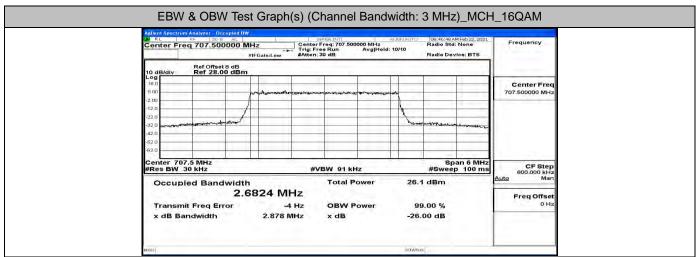


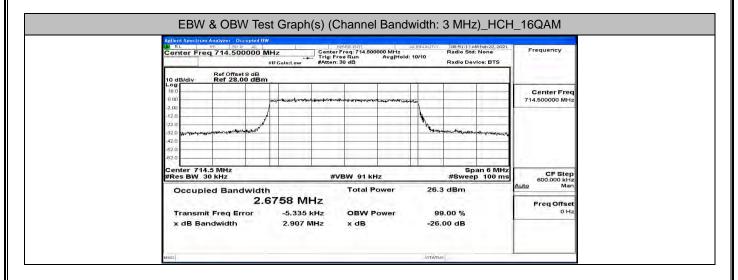


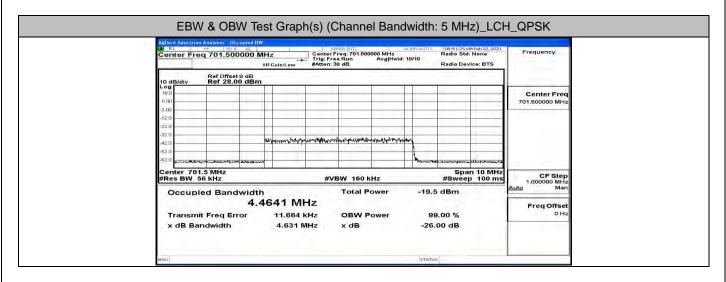


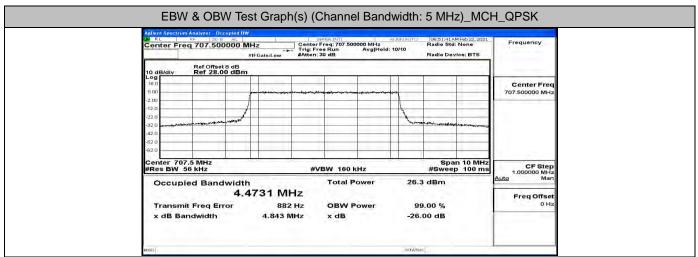


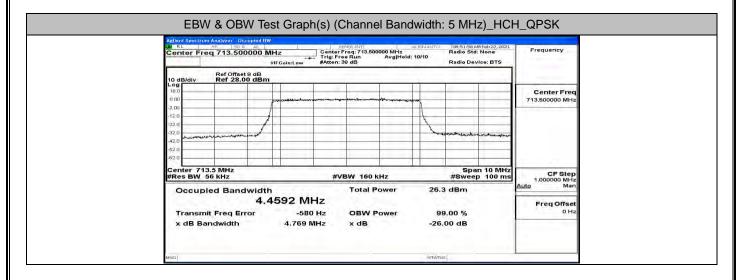


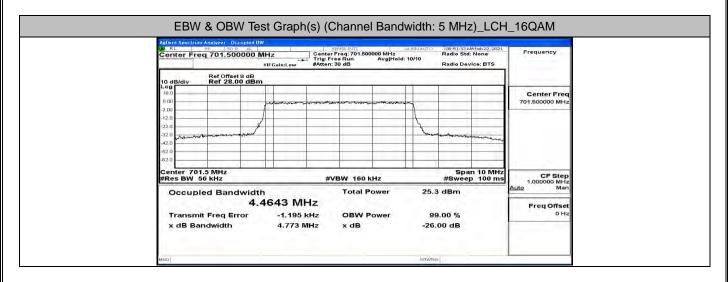


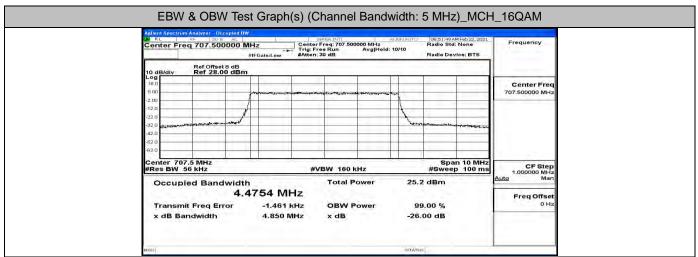


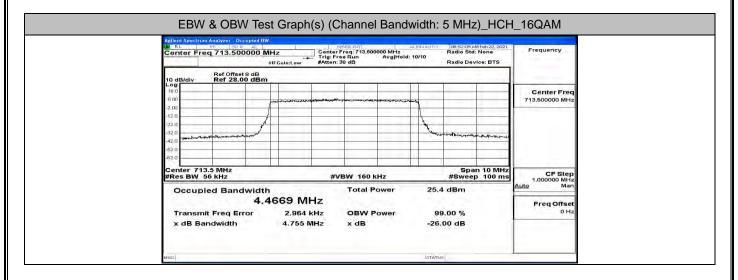


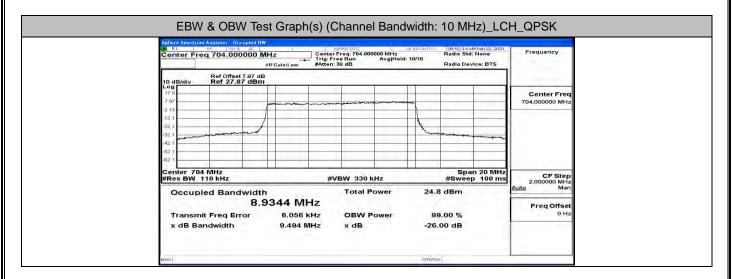


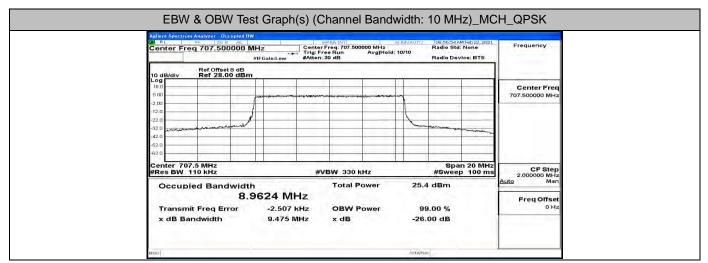


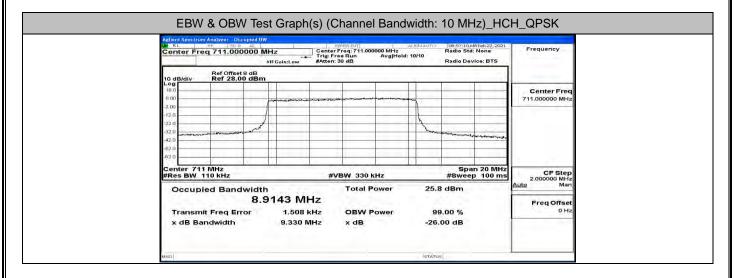


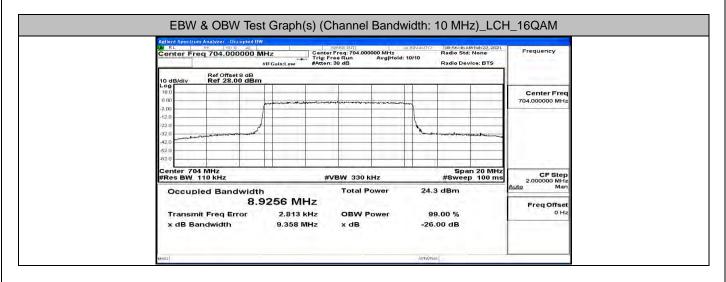


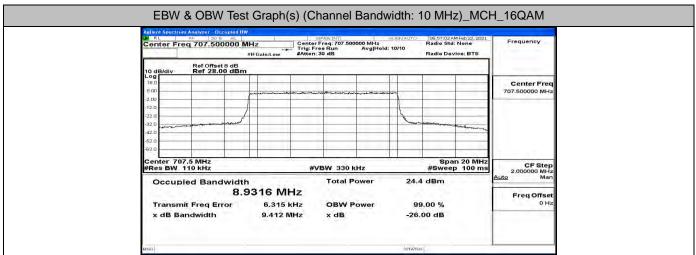


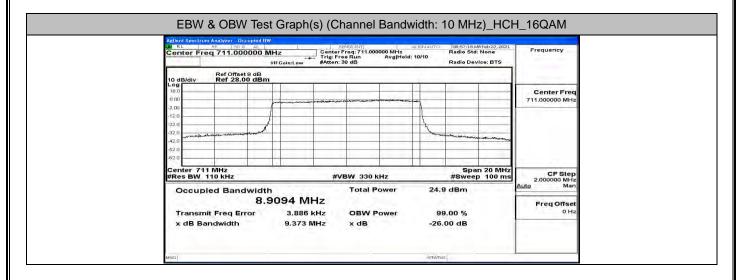




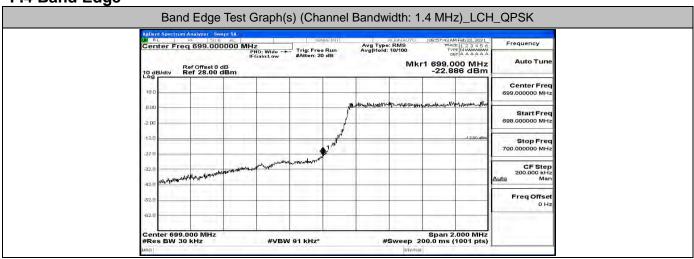


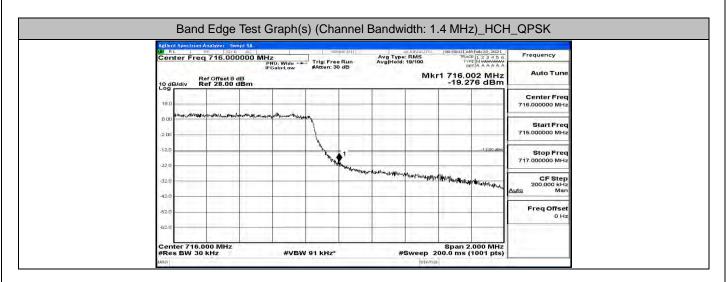


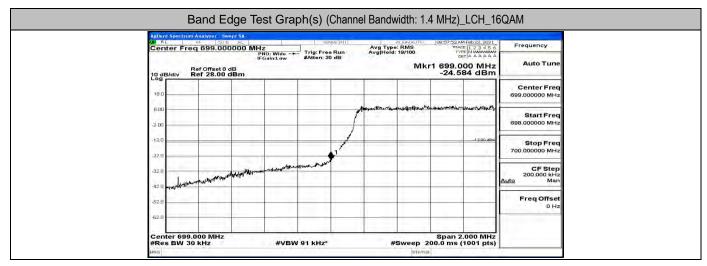


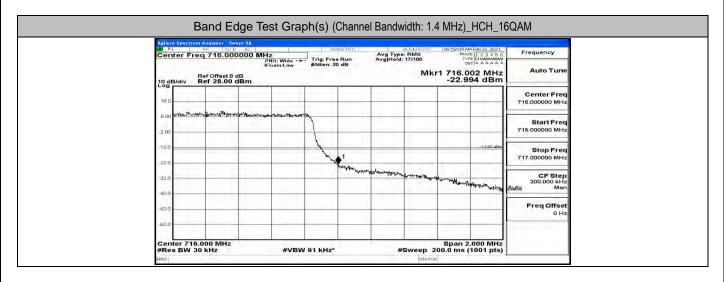


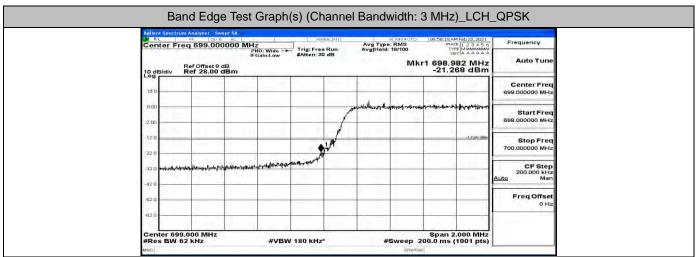
F.4 Band Edge

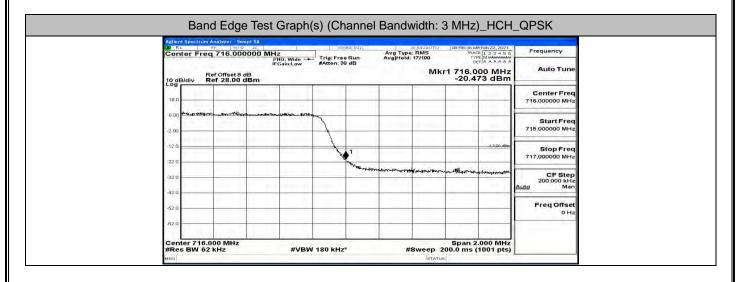


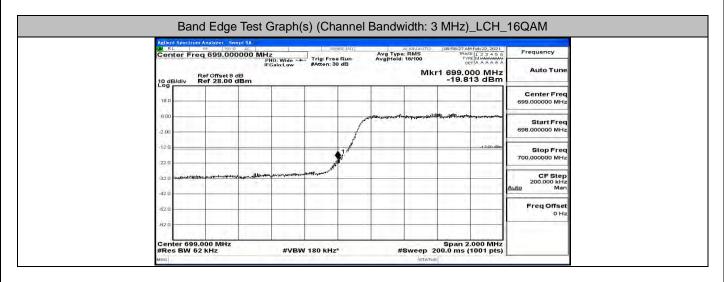


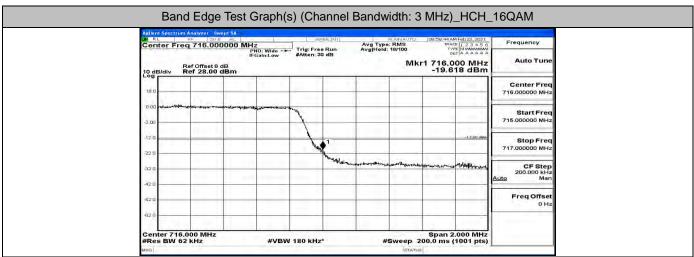


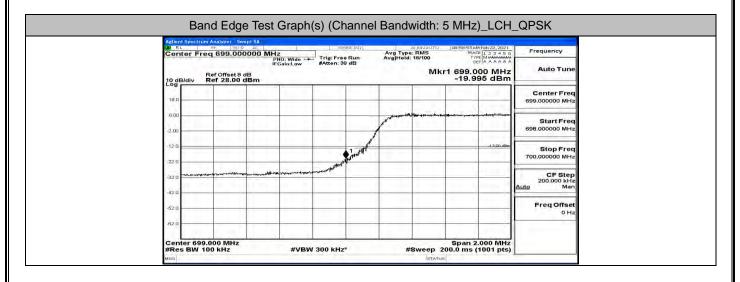


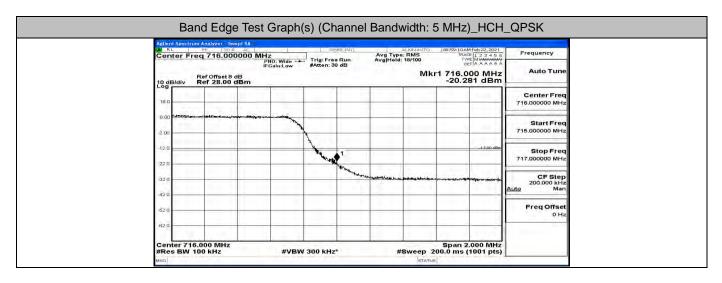


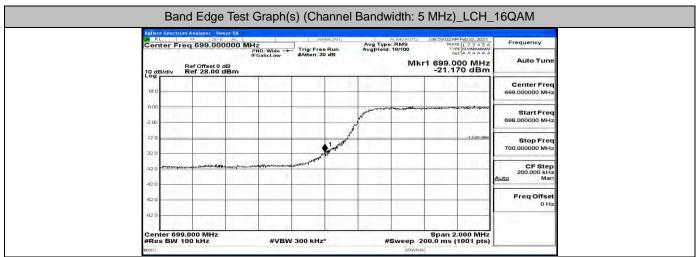


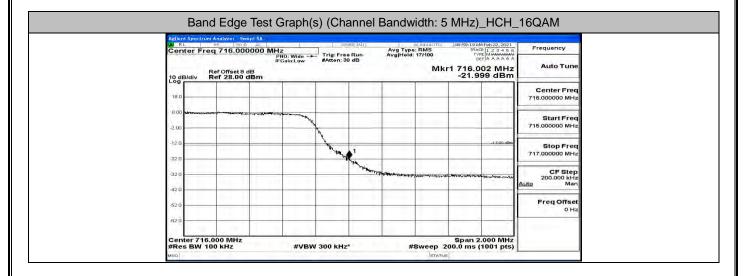


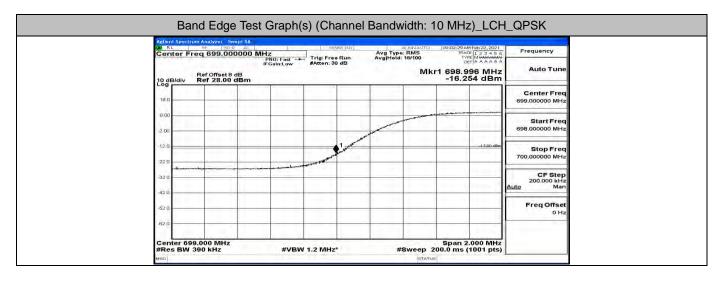


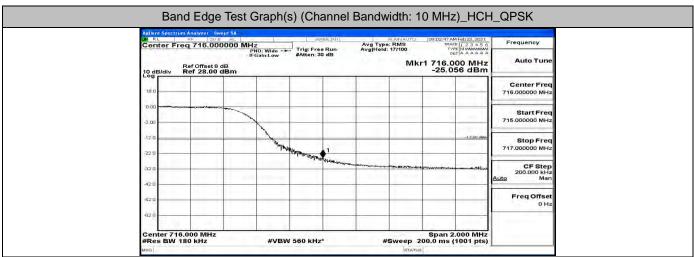


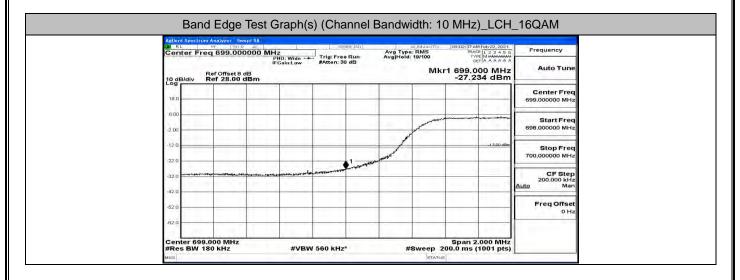


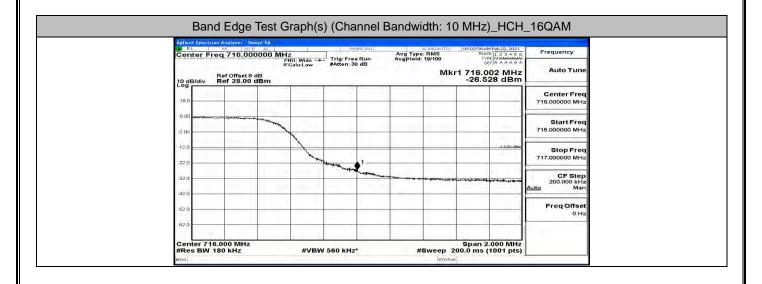






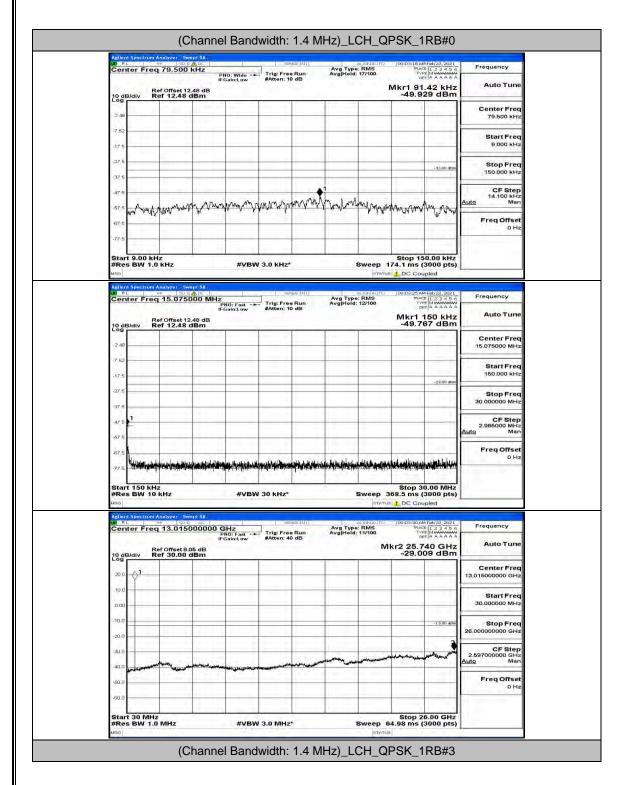


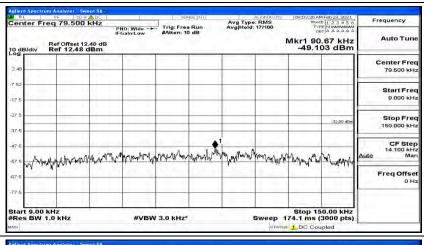


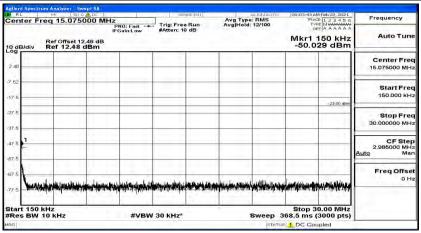


### **F.5 Conducted Spurious Emission**

**Channel Bandwidth: 1.4 MHz** 

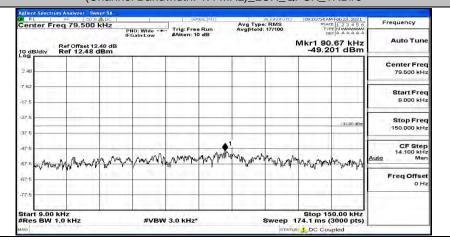


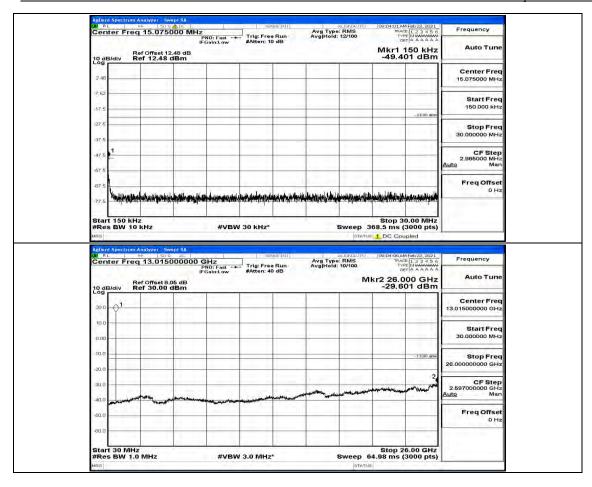


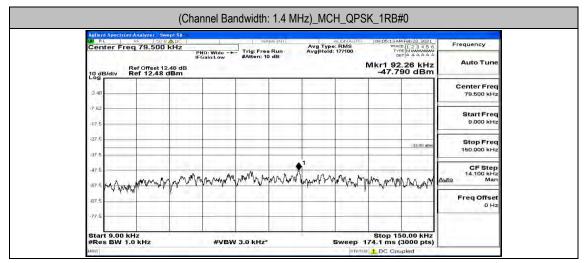


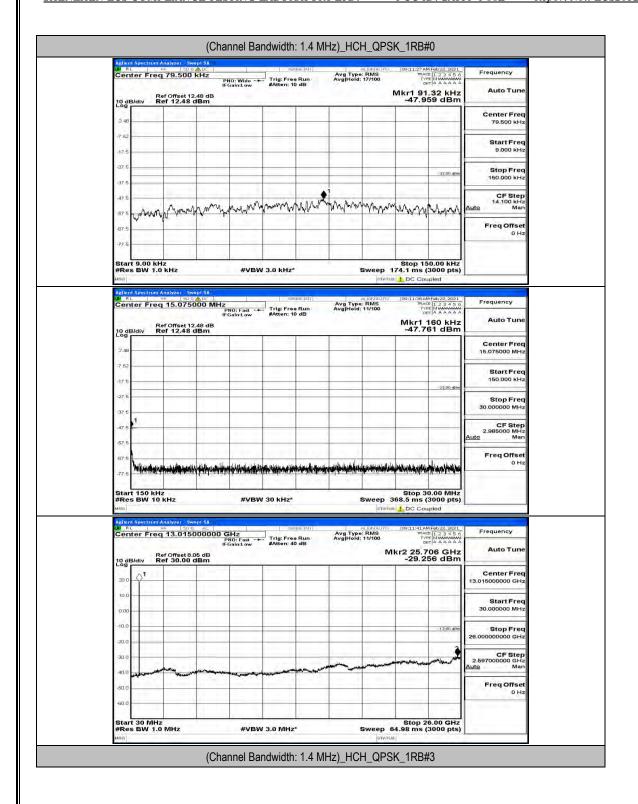


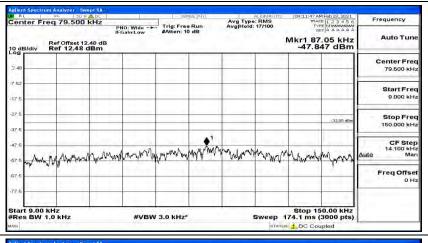
#### (Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK\_1RB#5

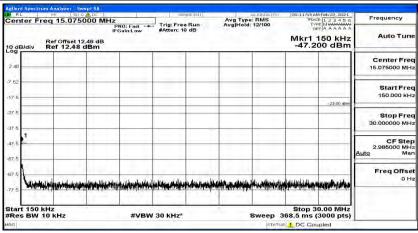




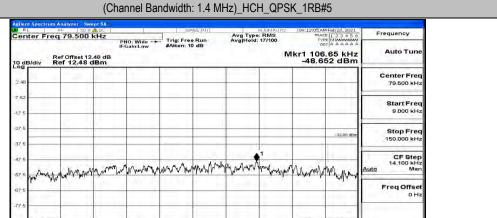






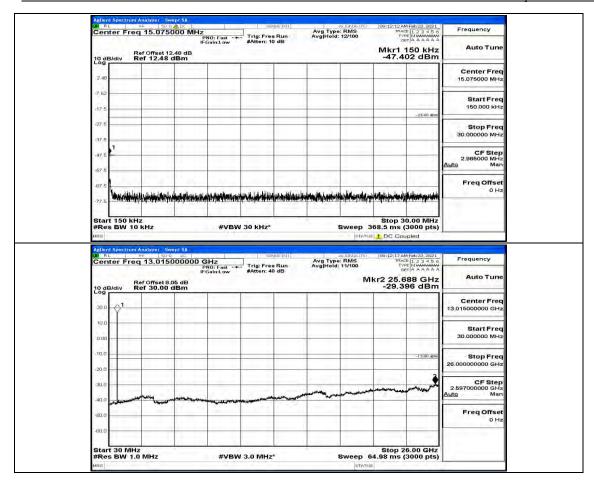


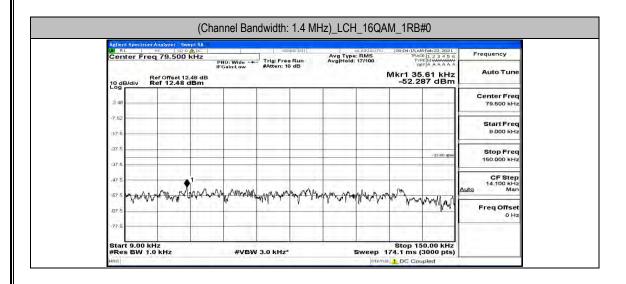


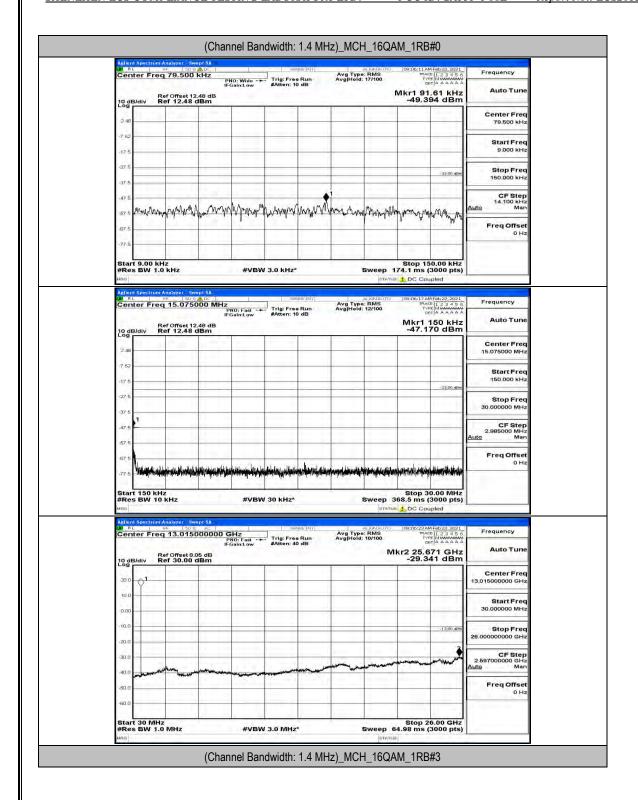


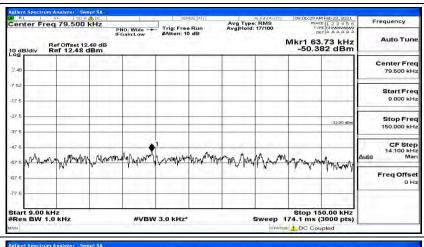
#VBW 3.0 kHz\*

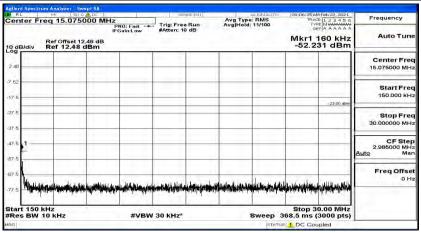
Stop 150.00 kHz Sweep 174.1 ms (3000 pts)



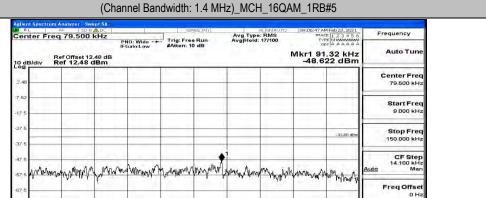






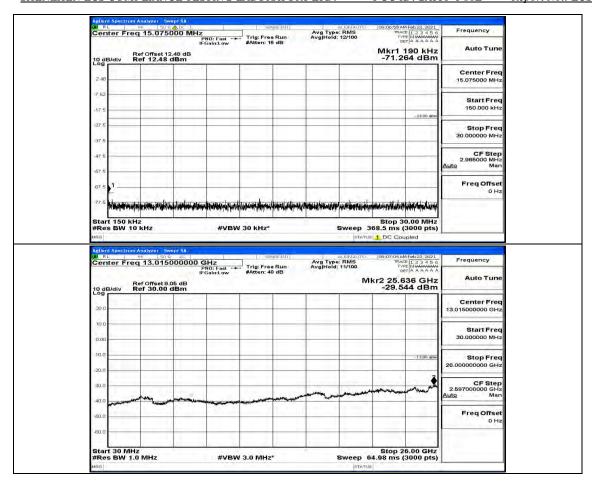


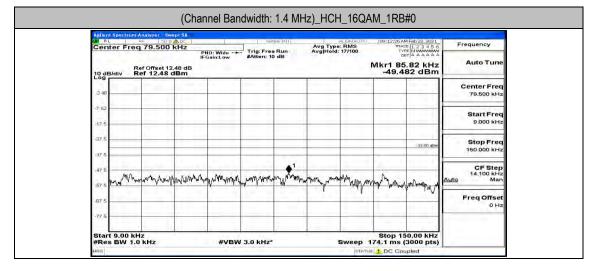




#VBW 3.0 kHz\*

Start 9.00 kHz #Res BW 1.0 kHz Stop 150.00 kHz Sweep 174.1 ms (3000 pts)



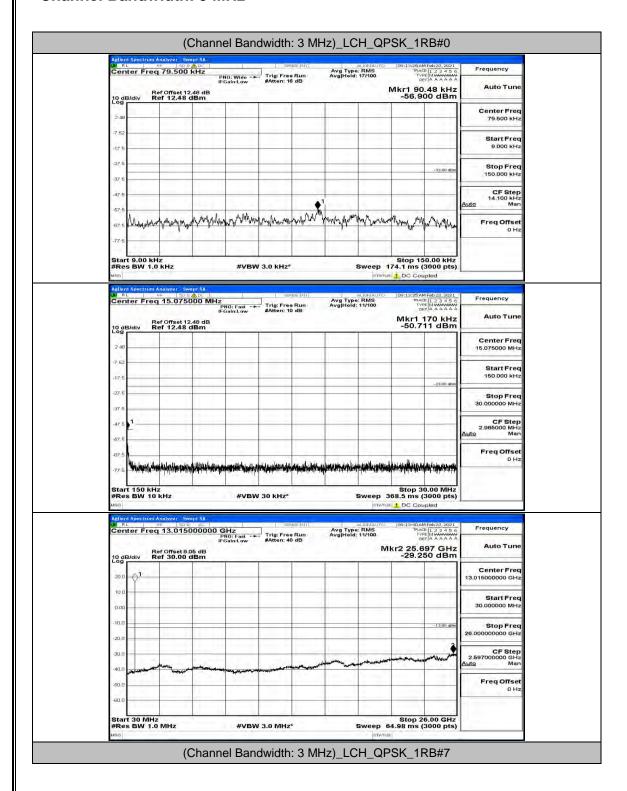


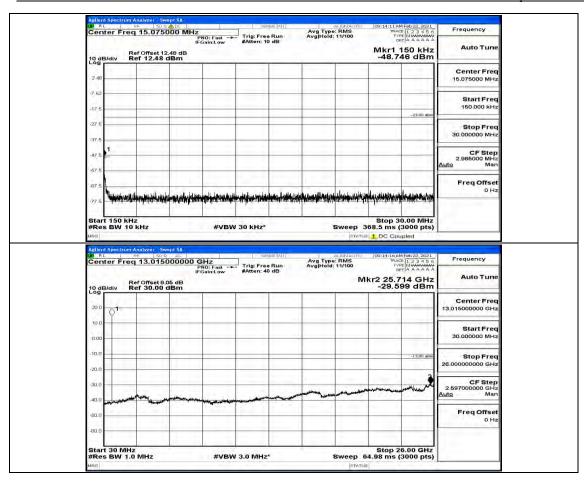
FCC ID: 2AT3F-P88L

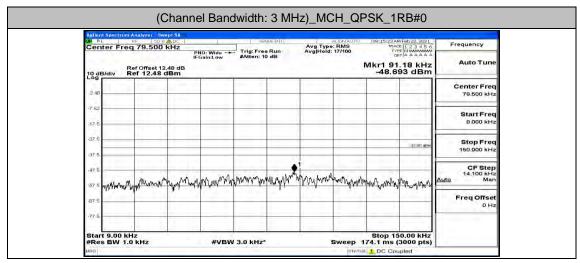
Report No.: LCS201224064AEF

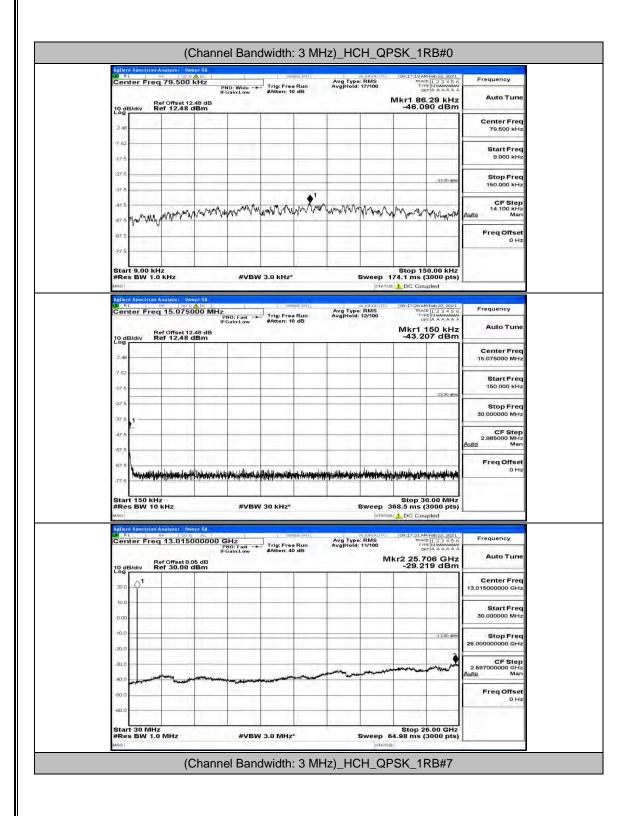
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.

## **Channel Bandwidth: 3 MHz**









FCC ID: 2AT3F-P88L

Report No.: LCS201224064AEF

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.

#VBW 3.0 MHz\*

Start 30 MHz #Res BW 1.0 MHz Freq Offset

Stop 26.00 GHz Sweep 64.98 ms (3000 pts)