## Appendix D: Test Data for E-UTRA Band 2

**Product Name: Tablet PC** 

HYUNDAI

**Trade Mark:** 

Test Model: 10LC1

## **Environmental Conditions**

Temperature:	24.6° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Li Huan
Supervised by:	Tom Liu

**D.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]	Vardiet			
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict			
		1	0	22.75	22.14	PASS			
		1	3	22.74	21.73	PASS			
		1	5	22.80	21.73	PASS			
	LCH	3	0	22.69	21.58	PASS			
		3	2	22.80	21.72	PASS			
		3	3	22.35	21.67	PASS			
		6	0	21.70	20.55	PASS			
		1	0	22.75	21.50	PASS			
ODCK /		1	3	22.85	21.52	PASS			
QPSK / 16QAM		1	5	22.84	21.45	PASS			
TOQAIVI	MCH	3	0	22.76	21.75	PASS			
		3	2	22.90	21.39	PASS			
		3	3	22.88	21.56	PASS			
		6	0	21.81	20.95	PASS			
		1	0	22.60	21.67	PASS			
		1	3	22.71	21.58	PASS			
	HCH	1	5	22.68	21.54	PASS			
		3	0	22.69	21.92	PASS			
		3	2	22.72	21.78	PASS			

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.			G LABORATO	RY LTD. FCC ID: 2AVTH-10	LC1-2 Report No.: LCS20	01026153AEG
		3	3	22.75	21.77	PASS
		6	0	21.63	20.67	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)								
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict		
Modulation	Channel	Size	Offset	QPSK	16QAM	verdict		
		1	0	22.81	22.32	PASS		
		1	7	22.84	22.47	PASS		
		1	14	22.67	22.18	PASS		
	LCH	8	0	21.70	20.71	PASS		
		8	4	21.71	20.57	PASS		
		8	7	21.63	20.58	PASS		
		15	0	21.76	20.74	PASS		
	MCH		1	0	22.88	22.09	PASS	
		1	7	22.84	22.11	PASS		
QPSK /		1	14	22.62	22.16	PASS		
16QAM		8	0	21.80	20.91	PASS		
IOQAM		8	4	21.81	20.90	PASS		
		8	7	21.75	21.06	PASS		
		15	0	21.74	20.84	PASS		
		1	0	22.71	21.28	PASS		
		1	7	22.96	21.38	PASS		
		1	14	22.36	21.27	PASS		
	HCH	8	0	21.69	20.76	PASS		
		8	4	21.54	20.56	PASS		
		8	7	21.55	20.46	PASS		
		15	0	21.68	20.86	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	22.77	21.36	PASS			
		1	12	22.93	21.51	PASS			
		1	24	22.60	21.18	PASS			
	LCH	12	0	21.68	20.79	PASS			
		12	6	21.64	20.75	PASS			
		12	13	21.65	20.62	PASS			
		25	0	21.60	20.80	PASS			
	МСН	1	0	22.75	21.38	PASS			
		1	12	22.96	21.70	PASS			
QPSK /		1	24	22.78	21.06	PASS			
16QAM		12	0	21.71	20.82	PASS			
TOQAW		12	6	21.76	20.98	PASS			
		12	13	21.66	20.71	PASS			
		25	0	21.79	21.02	PASS			
		1	0	22.72	21.46	PASS			
		1	12	22.75	21.50	PASS			
		1	24	21.85	20.97	PASS			
	HCH	12	0	21.77	20.71	PASS			
		12	6	21.85	20.64	PASS			
		12	13	21.64	20.47	PASS			
		25	0	21.66	20.81	PASS			

	Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)									
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Vardiat				
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict				
		1	0	22.94	22.48	PASS				
		1	24	23.04	22.67	PASS				
		1	49	22.17	21.55	PASS				
	LCH	25	0	21.82	20.93	PASS				
		25	12	21.80	21.00	PASS				
		25	25	21.79	20.80	PASS				
		50	0	21.74	20.84	PASS				
		1	0	22.39	21.76	PASS				
	мсн	1	24	23.84	23.54	PASS				
QPSK /		1	49	22.69	21.96	PASS				
16QAM		25	0	21.80	20.68	PASS				
TOQAIVI		25	12	21.81	20.85	PASS				
		25	25	21.70	20.91	PASS				
		50	0	21.79	20.90	PASS				
		1	0	20.58	20.07	PASS				
		1	24	22.71	22.22	PASS				
		1	49	21.08	20.66	PASS				
	HCH	25	0	21.61	20.73	PASS				
		25	12	22.55	21.60	PASS				
		25	25	21.81	20.80	PASS				
		50	0	21.73	20.89	PASS				

	Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)								
Madulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/ordiot			
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict			
		1	0	22.85	21.69	PASS			
		1	37	23.13	22.05	PASS			
		1	74	21.82	21.11	PASS			
	LCH	37	0	21.88	20.95	PASS			
		37	18	21.89	20.87	PASS			
		37	38	21.89	20.83	PASS			
		75	0	21.91	20.93	PASS			
		1	0	21.62	21.02	PASS			
	мсн	1	37	23.71	23.13	PASS			
QPSK /		1	74	22.81	22.02	PASS			
16QAM		37	0	21.89	21.00	PASS			
TOQAIVI		37	18	22.02	21.11	PASS			
		37	38	21.90	20.91	PASS			
		75	0	21.91	21.12	PASS			
		1	0	20.96	20.35	PASS			
		1	37	21.70	21.09	PASS			
		1	74	21.03	20.47	PASS			
	HCH	37	0	21.02	20.10	PASS			
		37	18	21.65	20.75	PASS			
		37	38	22.19	21.19	PASS			
		75	0	21.58	20.69	PASS			

	Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)									
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/andiat				
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict				
		1	0	23.07	21.63	PASS				
		1	49	22.81	21.91	PASS				
		1	99	21.20	20.58	PASS				
	LCH	50	0	22.03	21.15	PASS				
		50	25	21.98	21.14	PASS				
		50	50	21.86	20.94	PASS				
		100	0	21.88	20.99	PASS				
		1	0	21.34	20.78	PASS				
	МСН	1	49	23.80	22.61	PASS				
QPSK /		1	99	22.57	21.39	PASS				
16QAM		50	0	21.88	20.93	PASS				
IOQAIVI		50	25	22.06	21.22	PASS				
		50	50	21.93	20.88	PASS				
		100	0	21.94	21.14	PASS				
		1	0	22.34	21.53	PASS				
		1	49	21.31	20.72	PASS				
		1	99	21.11	20.53	PASS				
	HCH	50	0	21.60	20.69	PASS				
		50	25	21.41	20.53	PASS				
		50	50	21.79	20.93	PASS				
		100	0	21.62	20.73	PASS				

## D.2 Peak-to-Average Ratio

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	3.76	<13	PASS				
QPSK	MCH	3.62	<13	PASS				
	HCH	4.75	<13	PASS				
16QAM	LCH	4.7	<13	PASS				
	MCH	4.61	<13	PASS				
	HCH	5.65	<13	PASS				

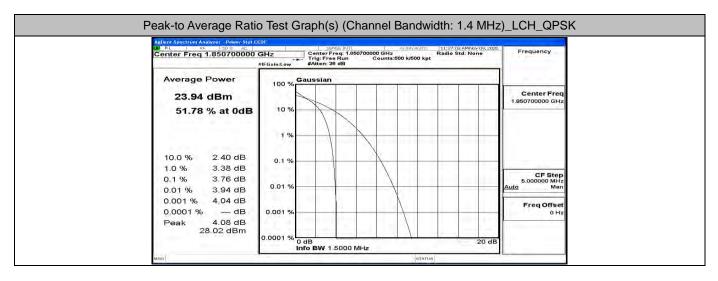
Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)								
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict				
Modulation	Channel	[dB]	[dB]	verdict				
	LCH	4.46	<13	PASS				
QPSK	MCH	4.1	<13	PASS				
	HCH	4.78	<13	PASS				
16QAM	LCH	5.38	<13	PASS				
	MCH	4.93	<13	PASS				
	HCH	5.59	<13	PASS				

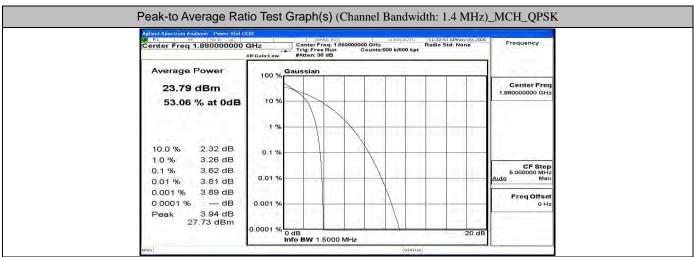
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)								
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict				
Modulation	Channel	[dB]	[dB]	verdict				
	LCH	4.71	<13	PASS				
QPSK	MCH	4.04	<13	PASS				
	HCH	4.61	<13	PASS				
	LCH	5.46	<13	PASS				
16QAM	MCH	4.89	<13	PASS				
	HCH	5.39	<13	PASS				

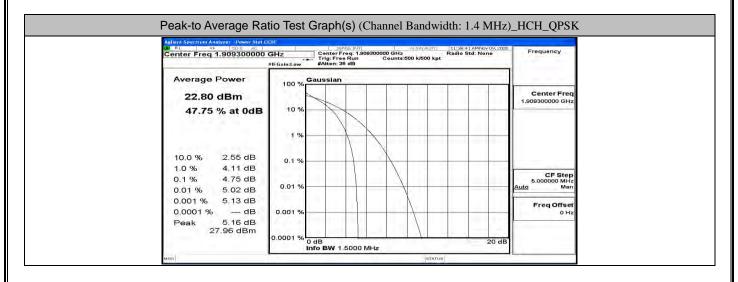
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)								
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict				
Modulation	Griannei	[dB]	[dB]	verdict				
QPSK	LCH	5.21	<13	PASS				
	MCH	4.41	<13	PASS				
	HCH	4.62	<13	PASS				
	LCH	5.99	<13	PASS				
16QAM	MCH	5.18	<13	PASS				
	HCH	5.43	<13	PASS				

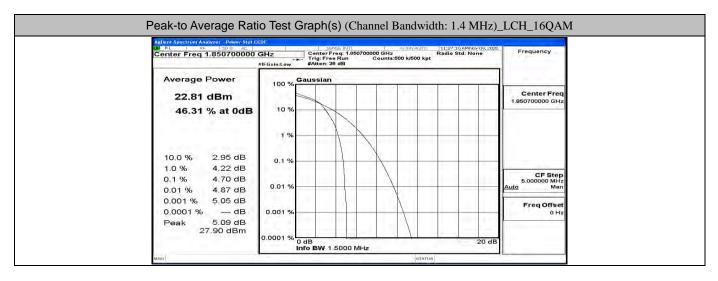
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict	
Modulation		[dB]	[dB]		
	LCH	5.07	<13	PASS	
QPSK	MCH	4.97	<13	PASS	
	HCH	4.91	<13	PASS	
16QAM	LCH	6.24	<13	PASS	
	MCH	5.93	<13	PASS	
	HCH	5.93	<13	PASS	

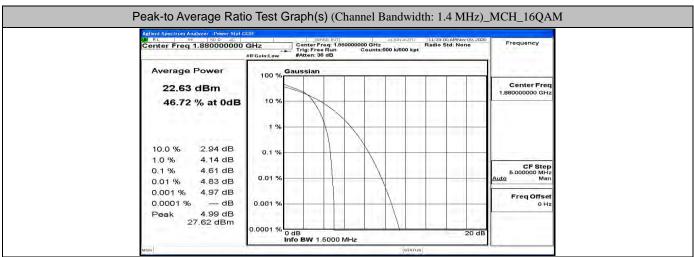
Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)					
Mandada Gara	Channel	Peak-to-Average Ratio	Limit	Verdict	
Modulation		[dB]	[dB]	verdict	
	LCH	5.77	<13	PASS	
QPSK	MCH	5.86	<13	PASS	
	HCH	5.79	<13	PASS	
16QAM	LCH	6.78	<13	PASS	
	MCH	6.56	<13	PASS	
	HCH	6.65	<13	PASS	

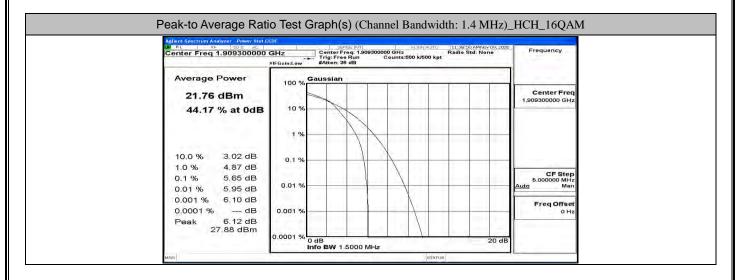


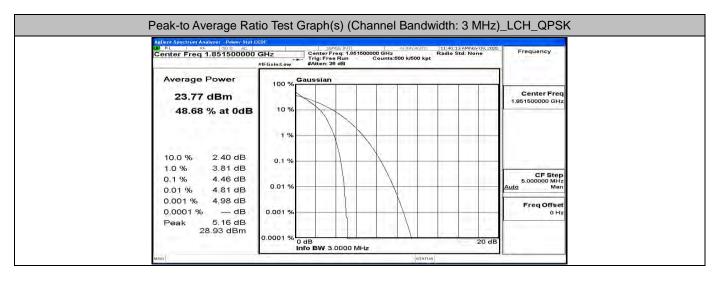


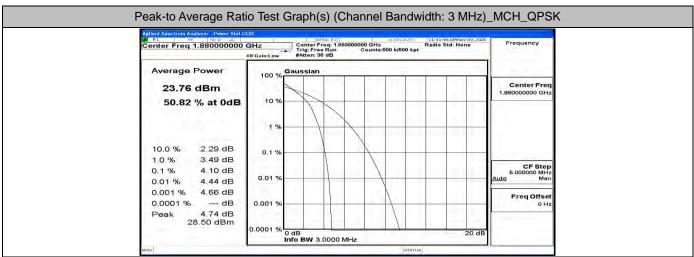


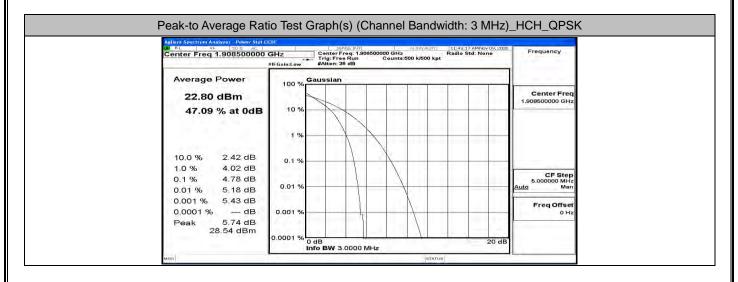


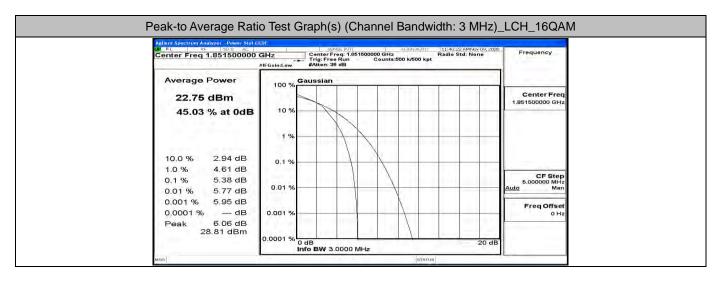


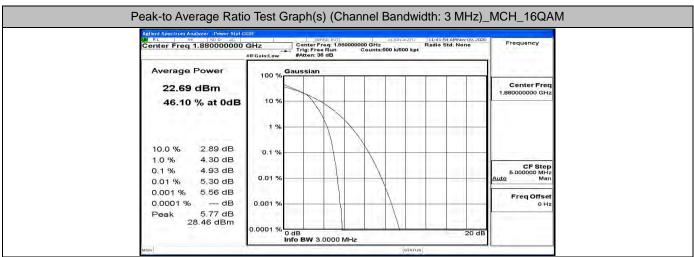


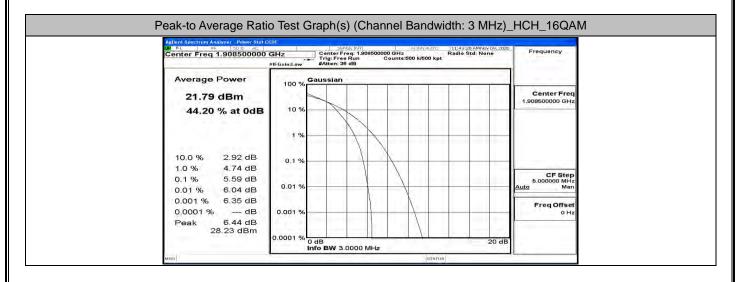


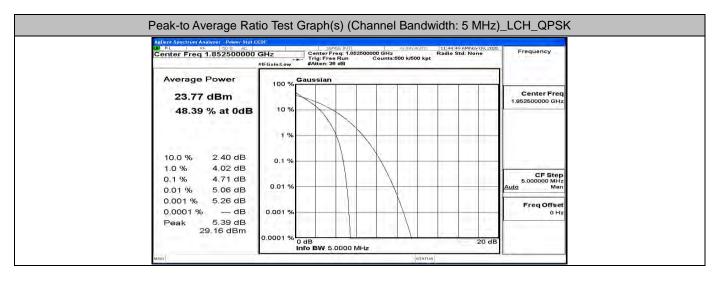


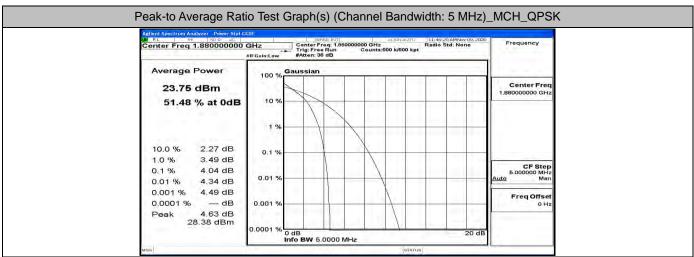


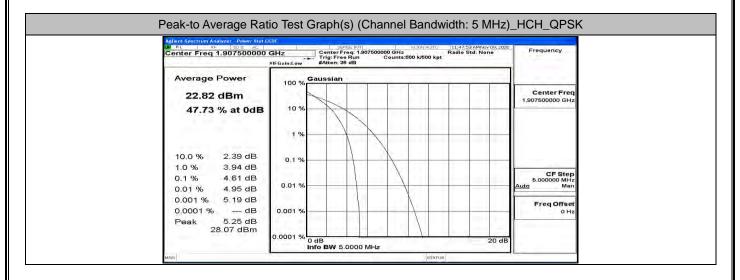


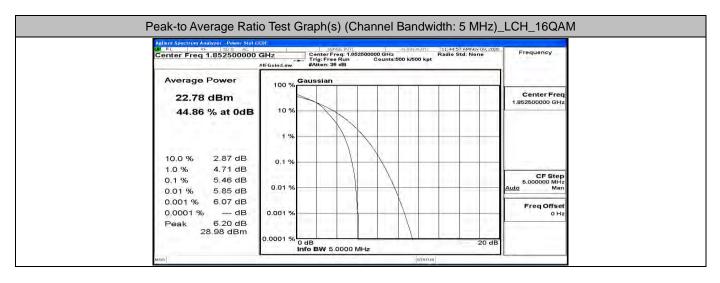


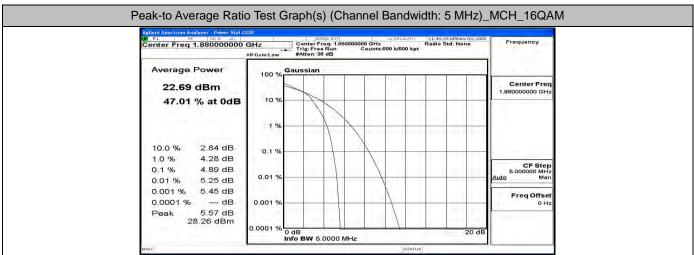


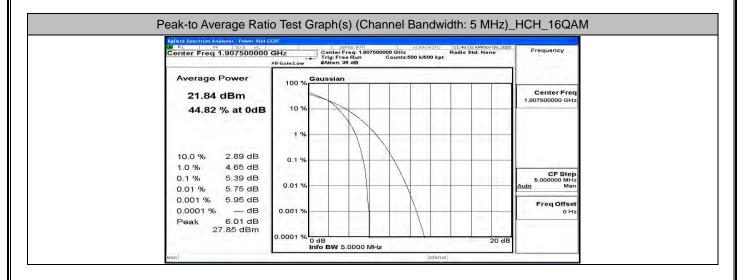


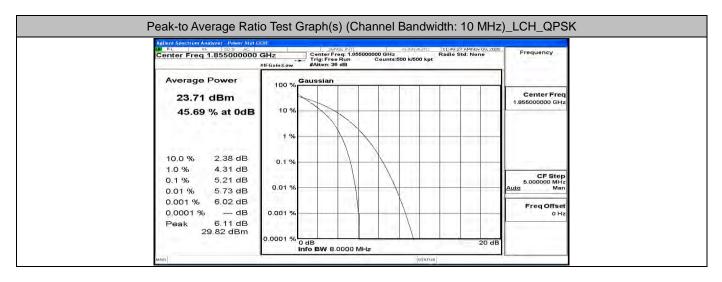


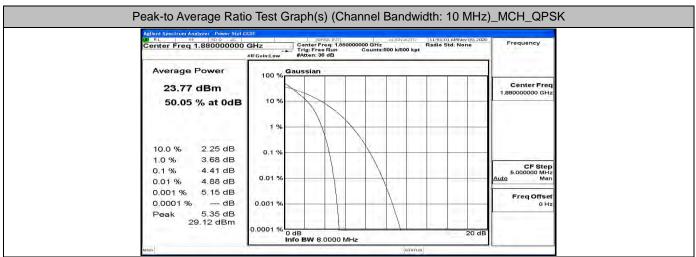


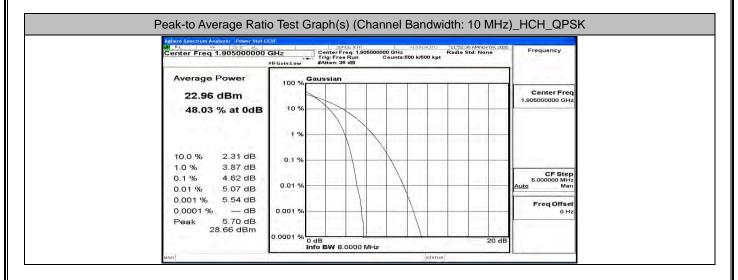


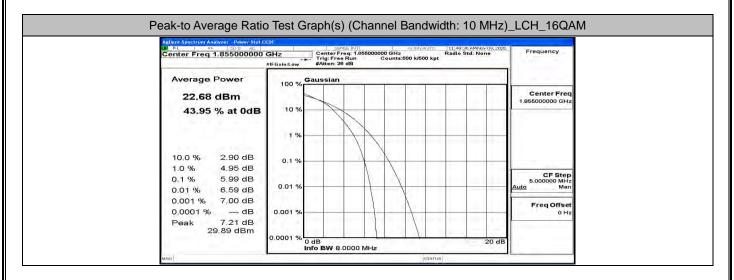


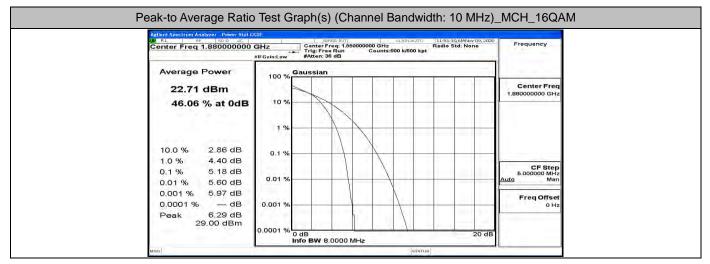


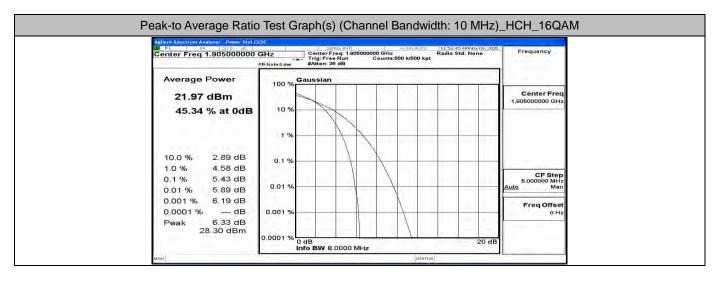


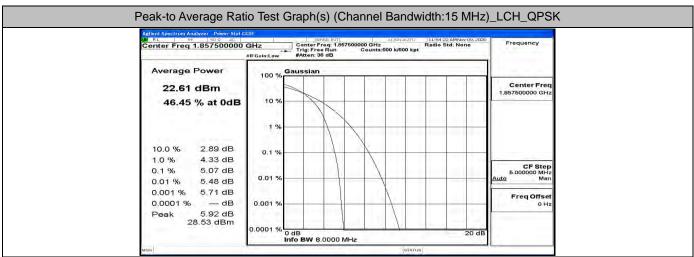


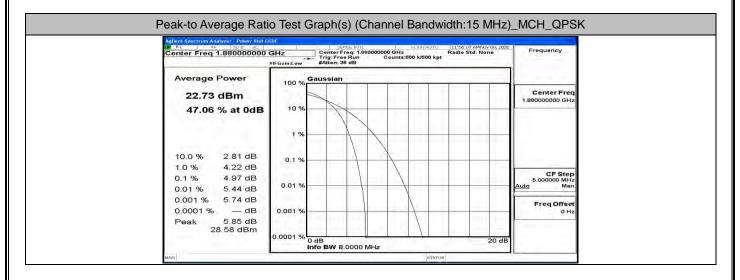


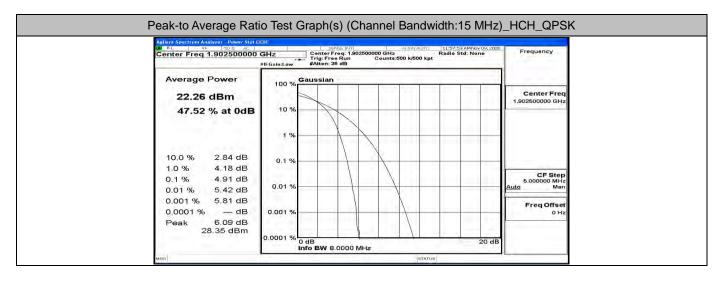


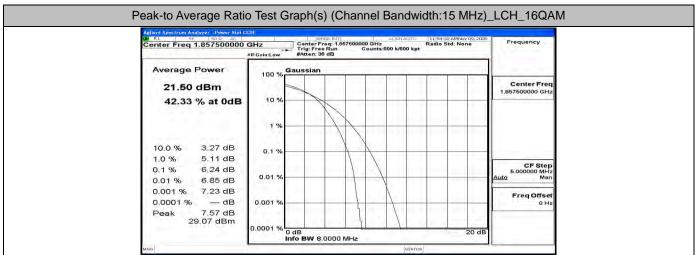


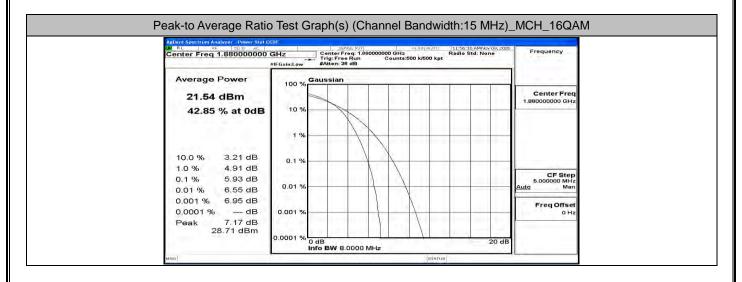


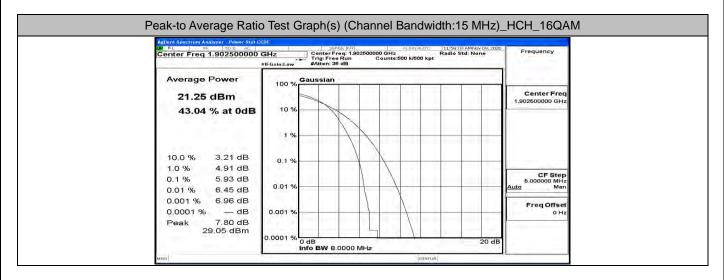


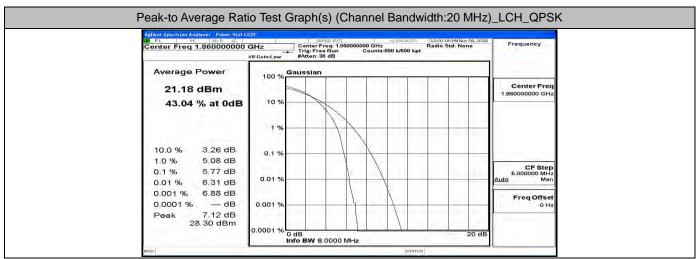


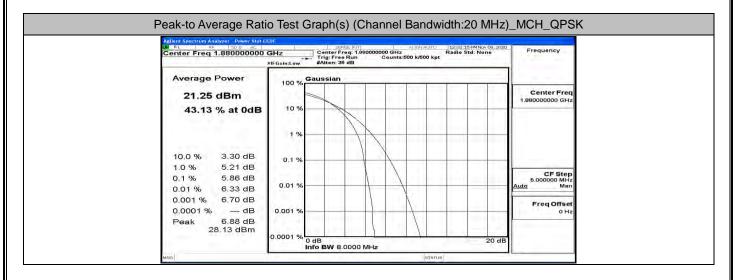


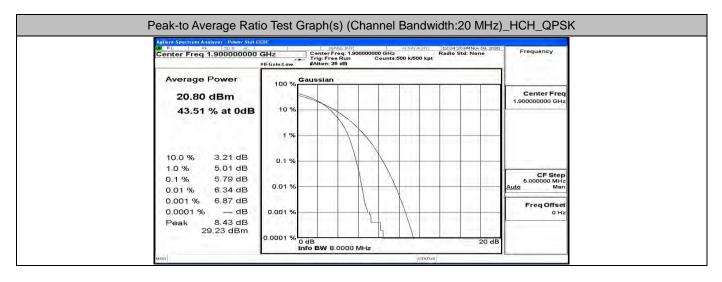


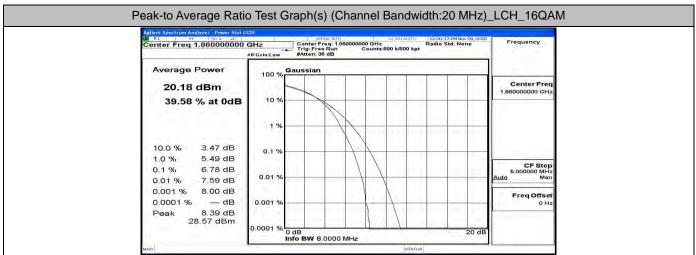


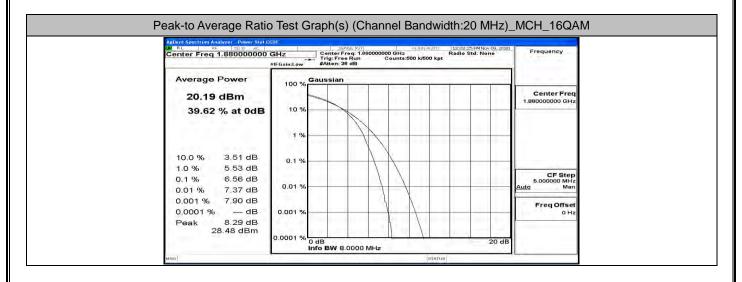


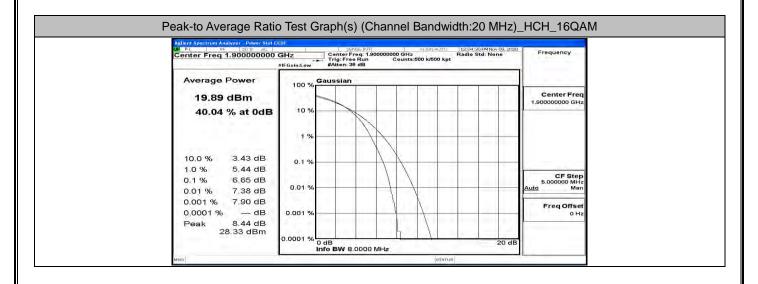












## D.3 26dB Bandwidth and Occupied Bandwidth

EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Wiodulation		(MHz)	(MHz)		
QPSK	LCH	1.0780	1.286	PASS	
	MCH	1.0757	1.272	PASS	
	HCH	1.0774	1.223	PASS	
16QAM	LCH	1.0790	1.240	PASS	
	MCH	1.0811	1.243	PASS	
	HCH	1.0755	1.229	PASS	

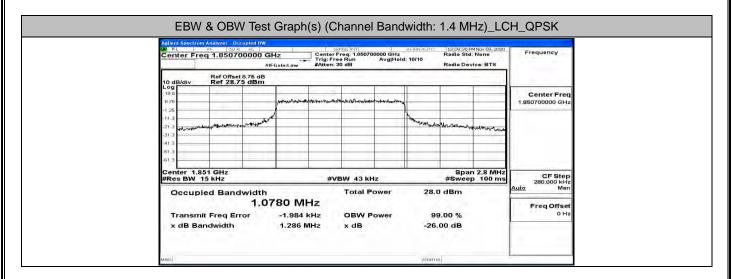
EBW & OBW Test Result (Channel Bandwidth: 3 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation	Griannei	(MHz)	(MHz)		
QPSK	LCH	2.6812	2.838	PASS	
	MCH	2.6818	2.848	PASS	
	HCH	2.6759	2.832	PASS	
16QAM	LCH	2.6781	2.837	PASS	
	MCH	2.6863	2.840	PASS	
	HCH	2.6787	2.818	PASS	

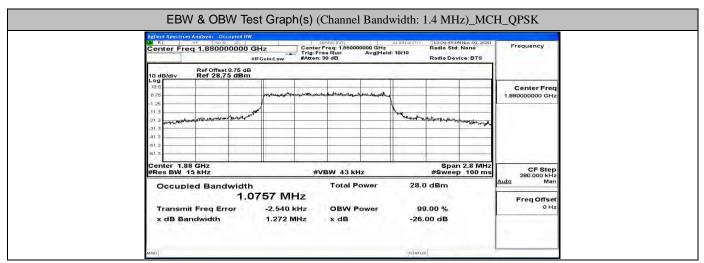
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation		(MHz)	(MHz)		
QPSK	LCH	4.4713	4.955	PASS	
	MCH	4.4904	5.015	PASS	
	HCH	4.4788	4.909	PASS	
16QAM	LCH	4.4808	4.844	PASS	
	MCH	4.4835	4.851	PASS	
	HCH	4.4774	4.859	PASS	

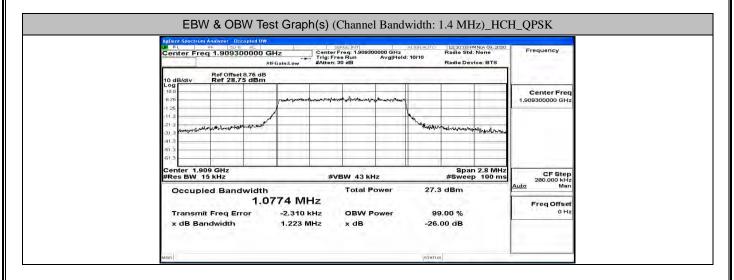
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation		(MHz)	(MHz)		
QPSK	LCH	8.9690	9.544	PASS	
	MCH	8.9534	9.769	PASS	
	HCH	8.9354	9.628	PASS	
16QAM	LCH	8.9516	9.562	PASS	
	MCH	8.9509	9.527	PASS	
	HCH	8.9153	9.448	PASS	

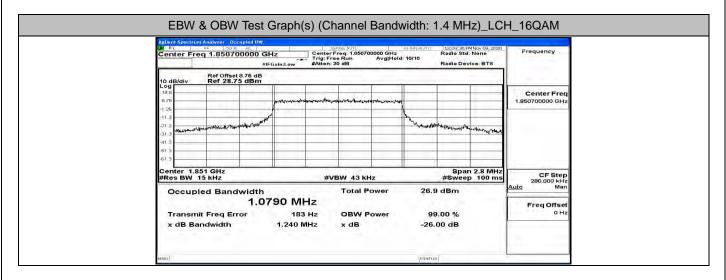
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
IVIOGUIATION		(MHz)	(MHz)		
	LCH	13.444	14.23	PASS	
QPSK	MCH	13.448	17.96	PASS	
	HCH	13.379	14.05	PASS	
16QAM	LCH	13.428	14.24	PASS	
	MCH	13.434	14.22	PASS	
	HCH	13.385	14.13	PASS	

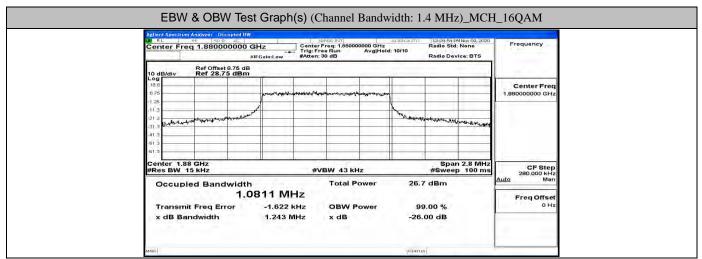
EBW & OBW Test Result (Channel Bandwidth: 20 MHz)					
Mandadatian	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation		(MHz)	(MHz)		
	LCH	17.880	18.74	PASS	
QPSK	MCH	17.892	18.69	PASS	
	HCH	17.829	18.62	PASS	
16QAM	LCH	17.882	18.67	PASS	
	MCH	17.853	18.74	PASS	
	HCH	17.815	18.57	PASS	

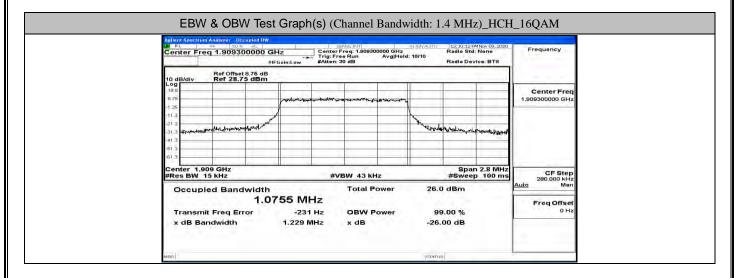


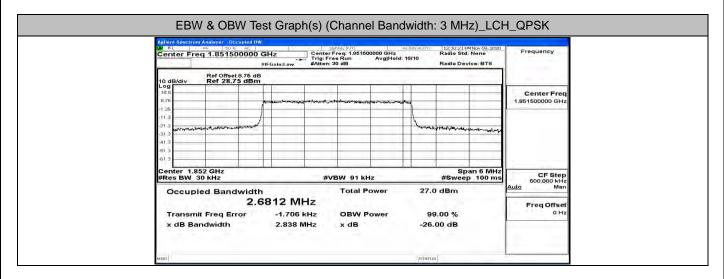


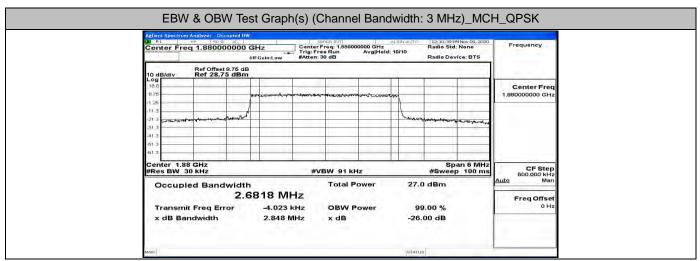


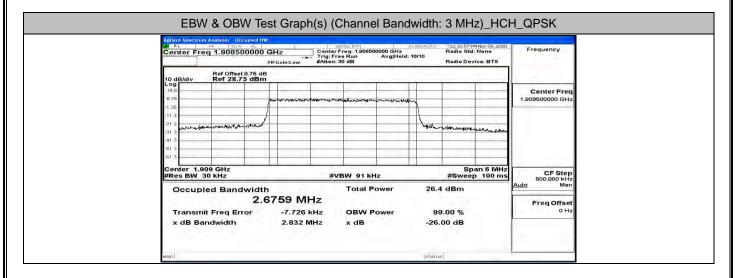


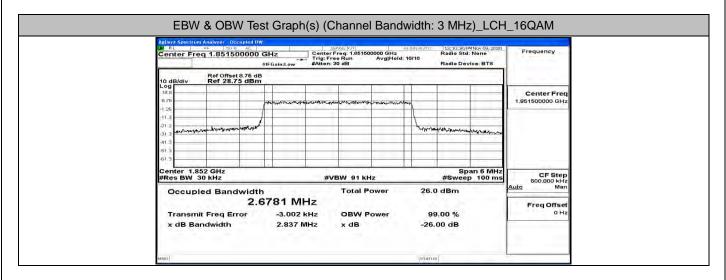


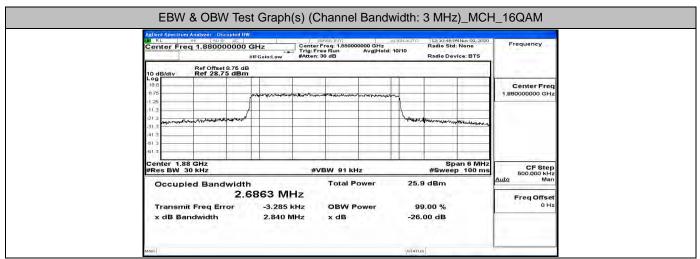


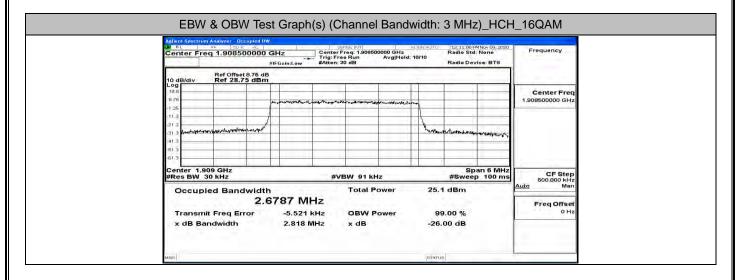


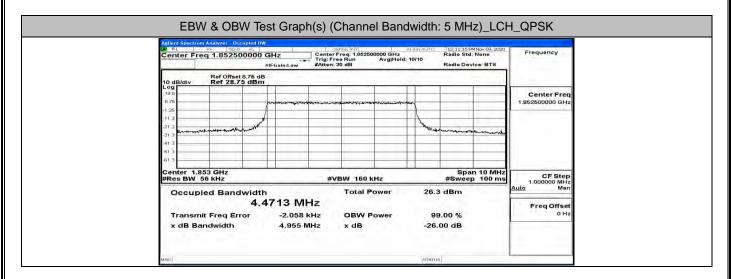


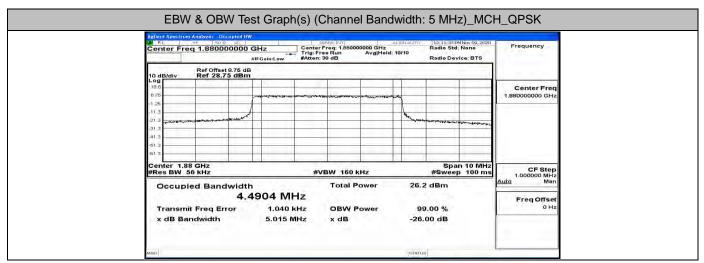


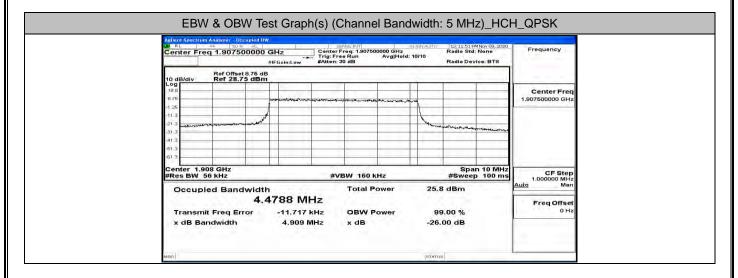


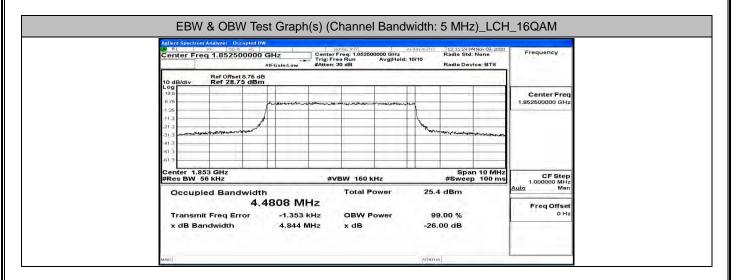


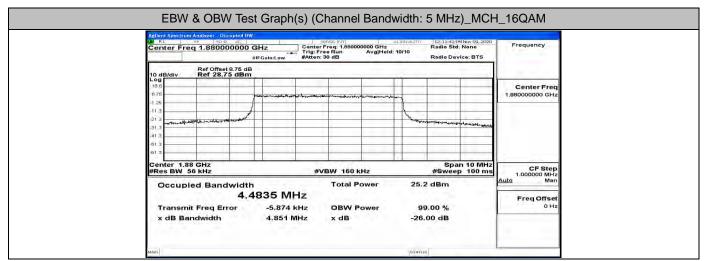


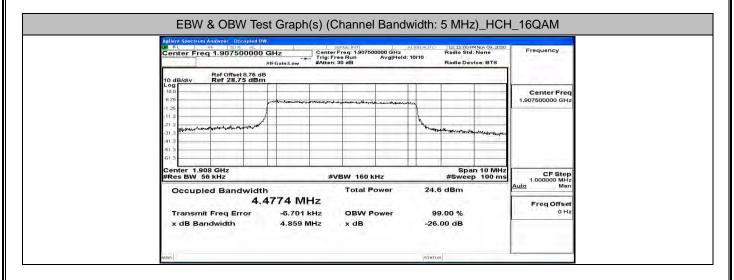


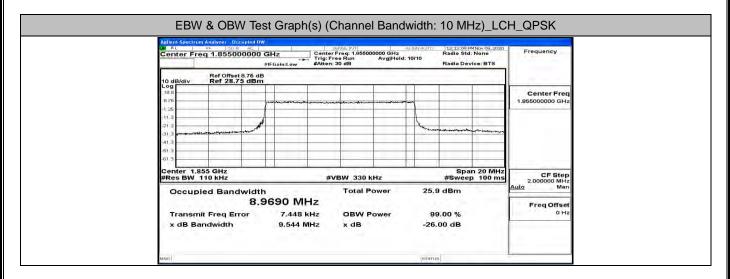


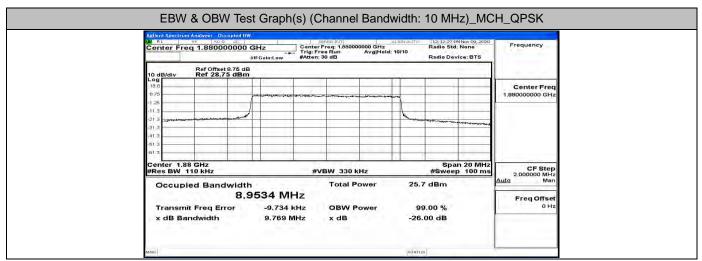


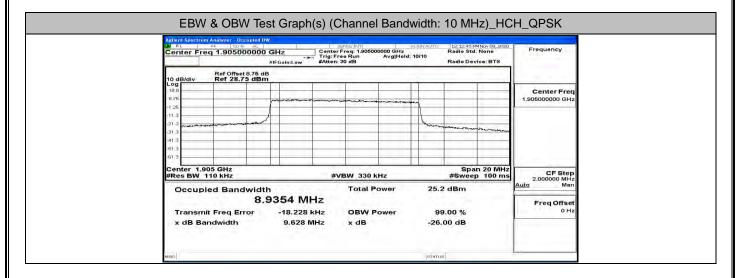


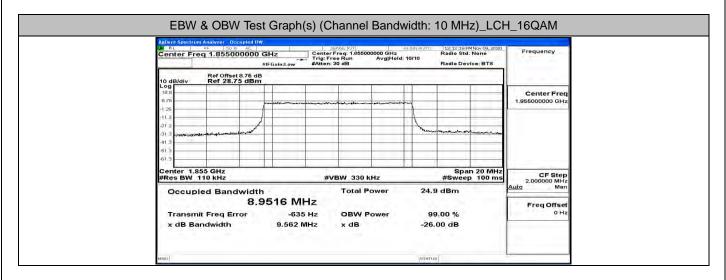


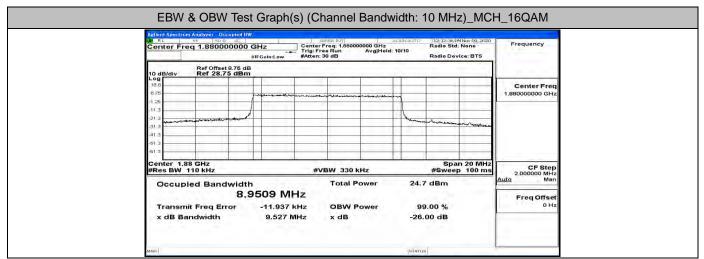


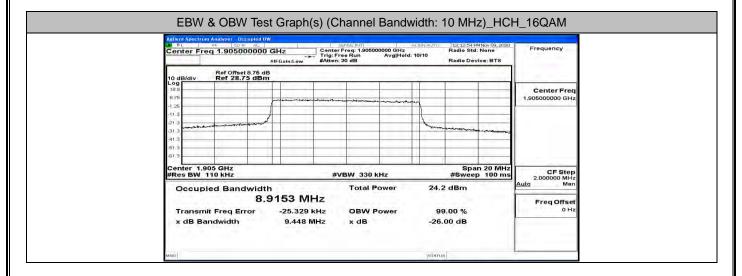


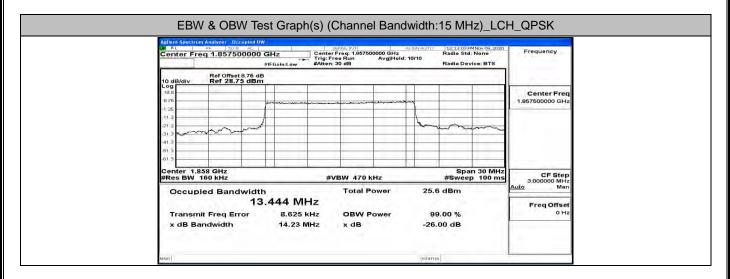


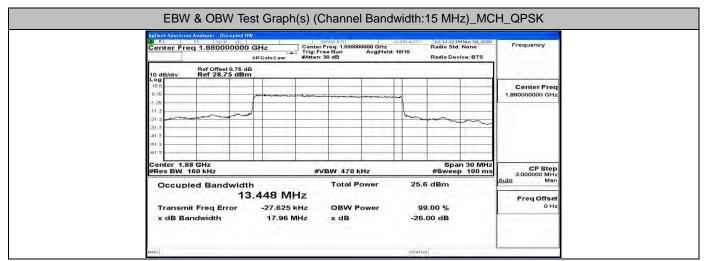


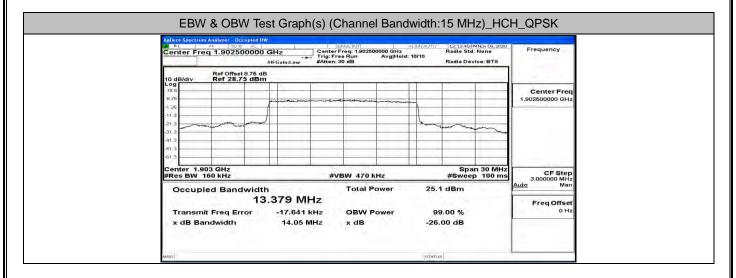


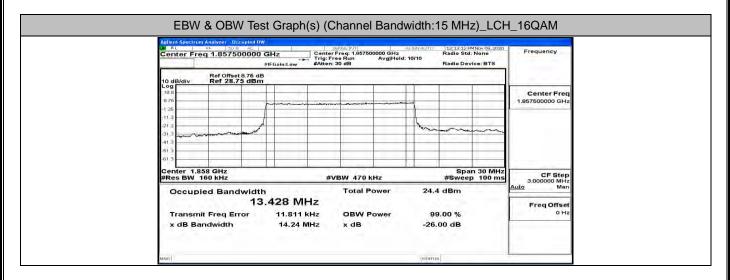


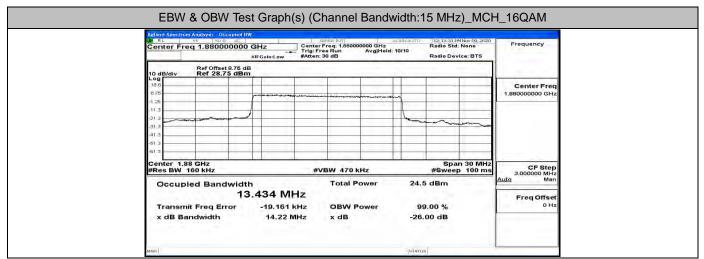


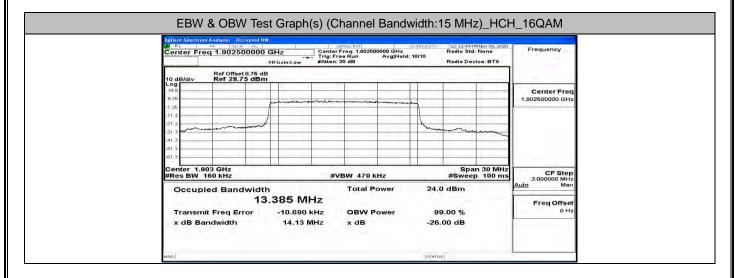


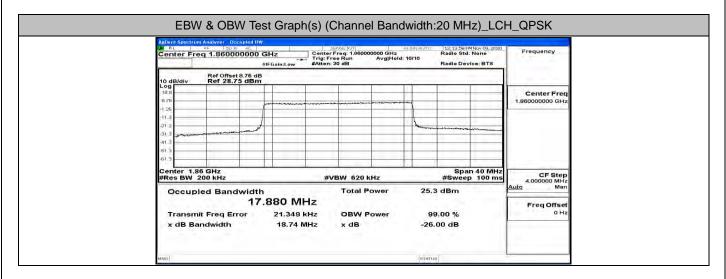


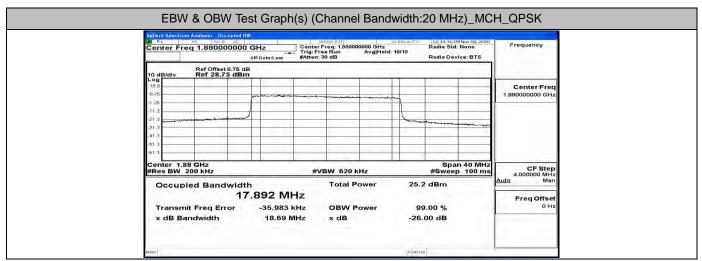


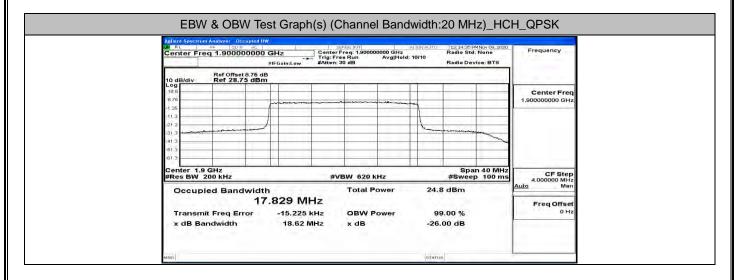


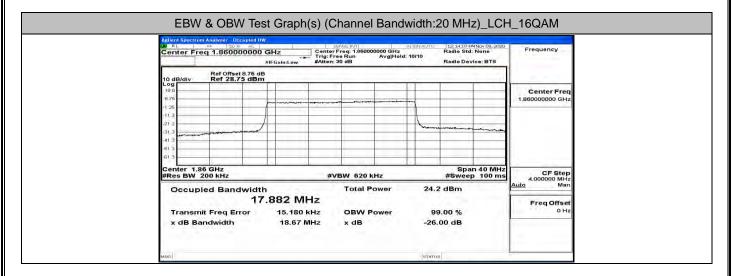


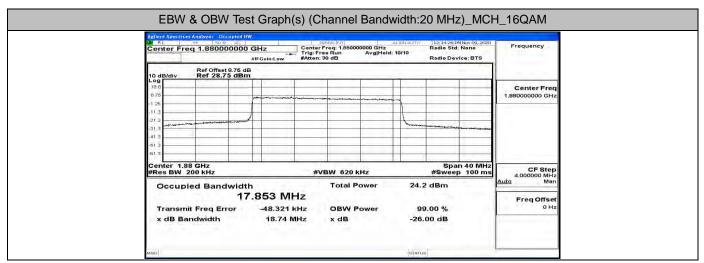


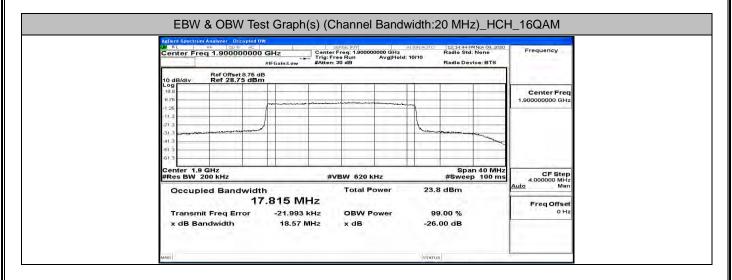




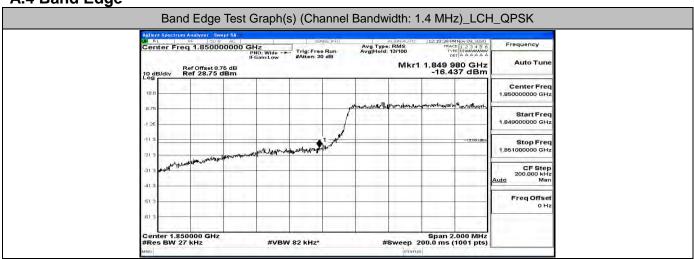


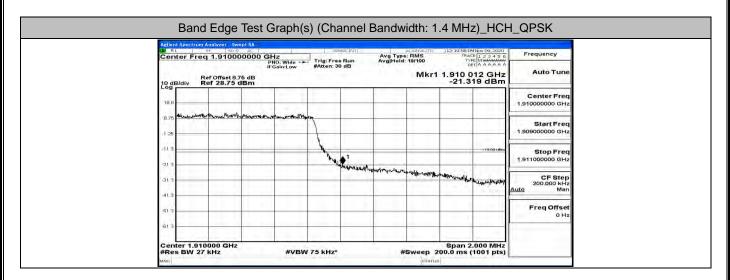


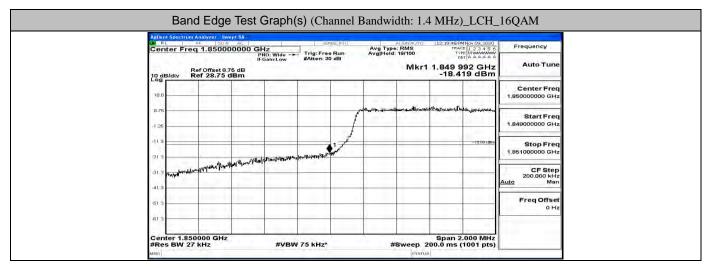


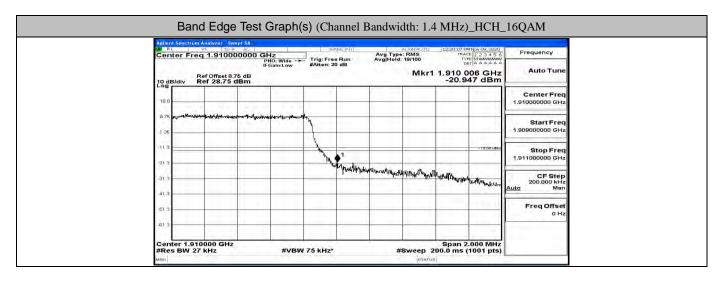


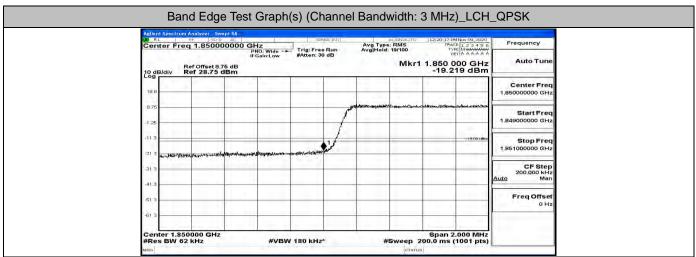
A.4 Band Edge

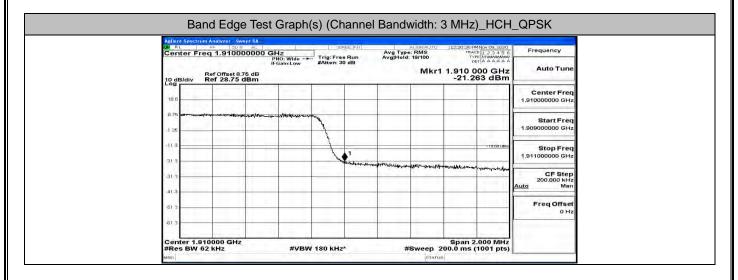


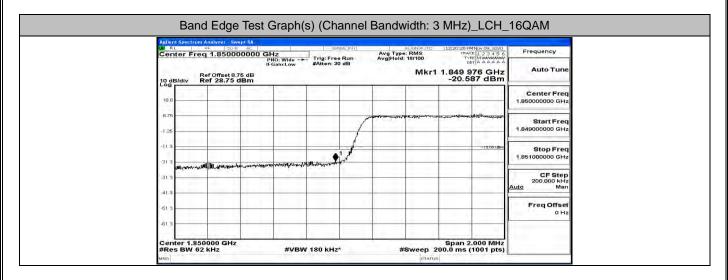


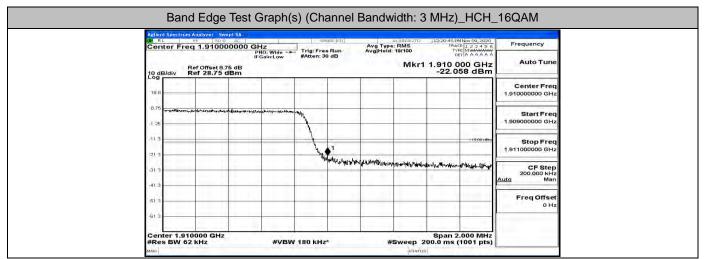


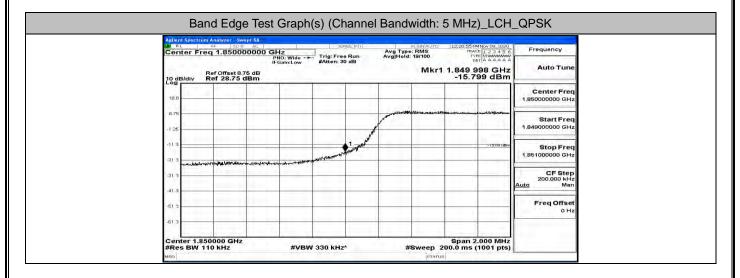


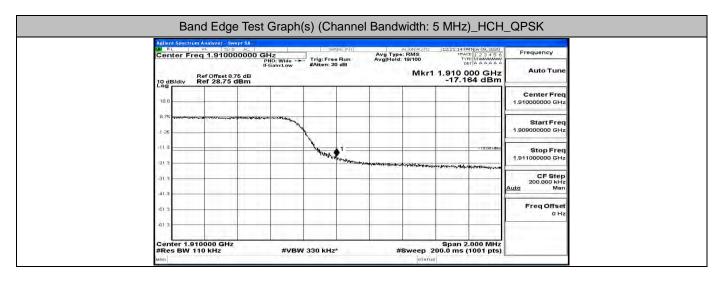


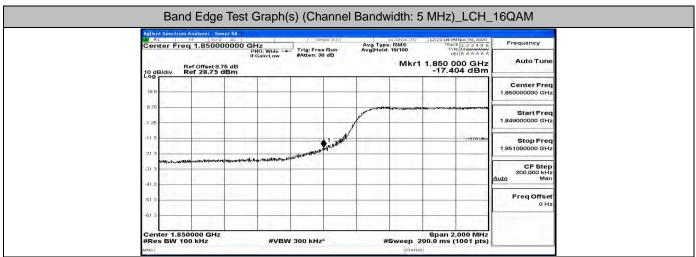


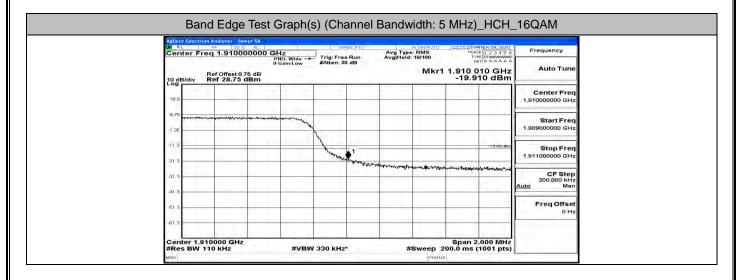


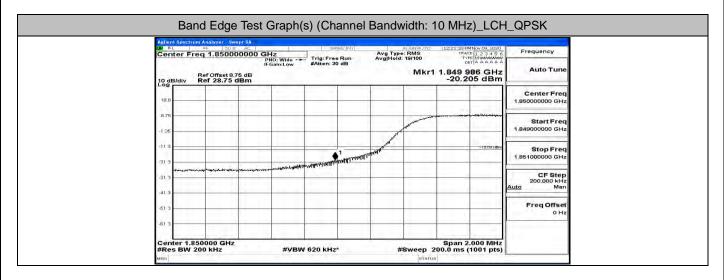


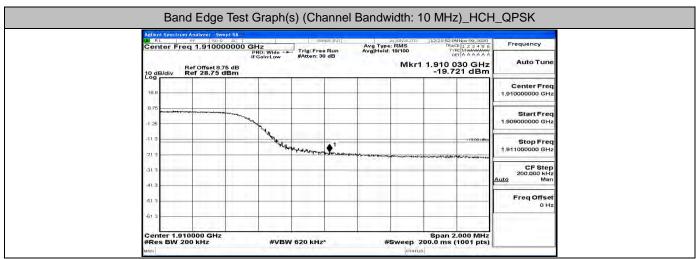


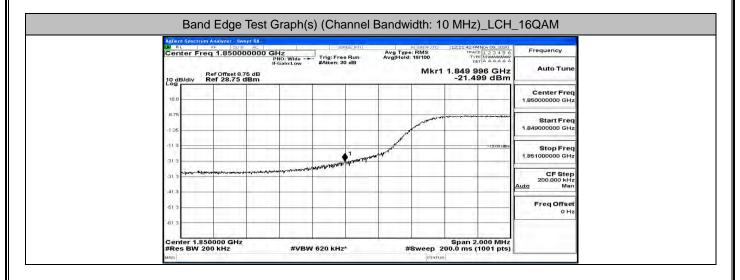


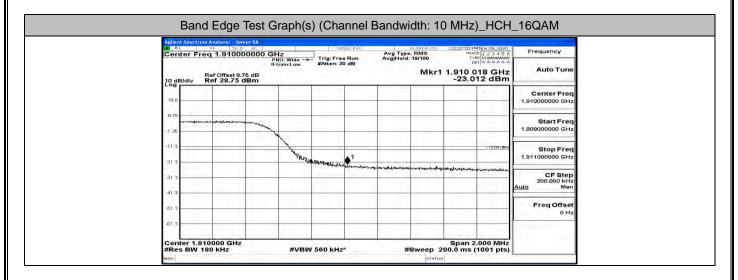


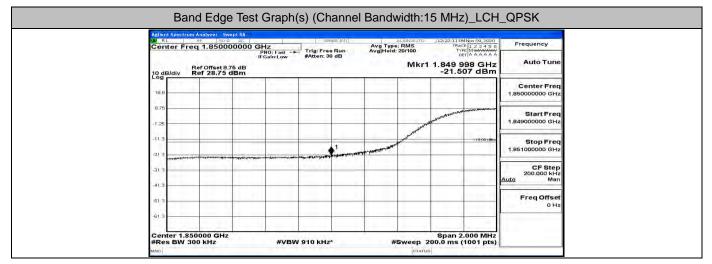


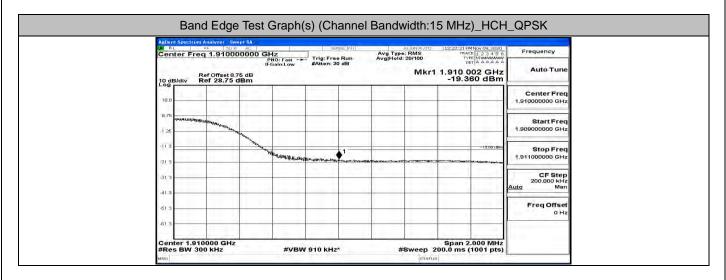


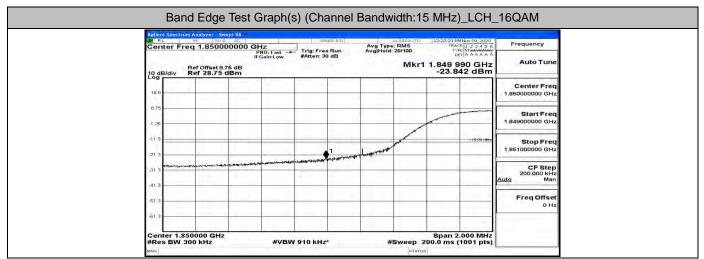


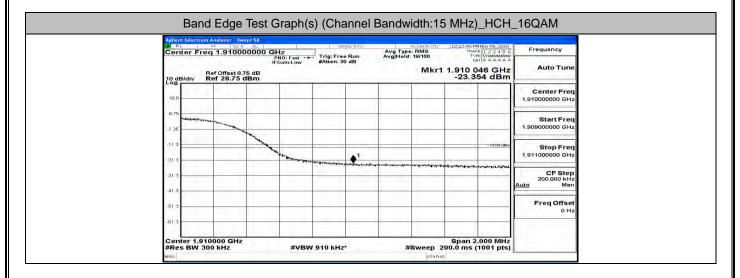


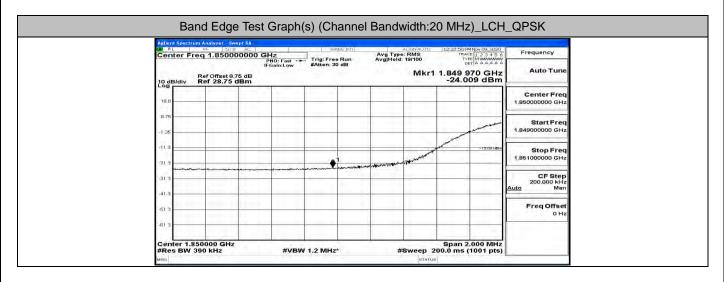


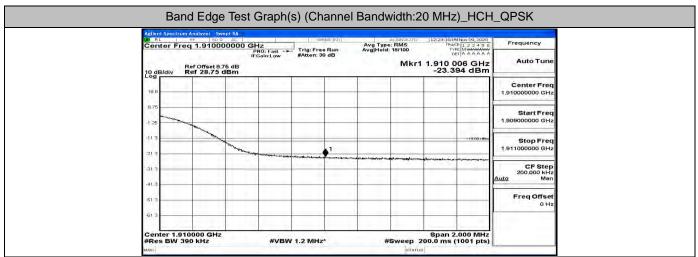


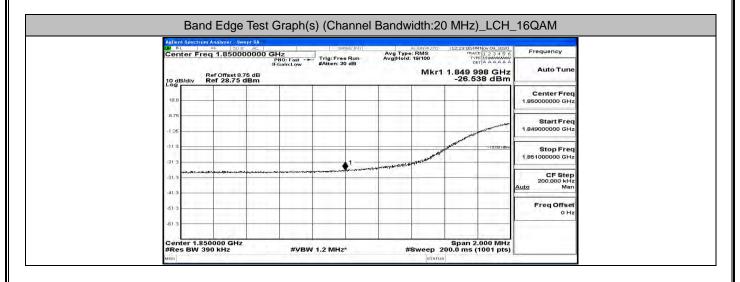


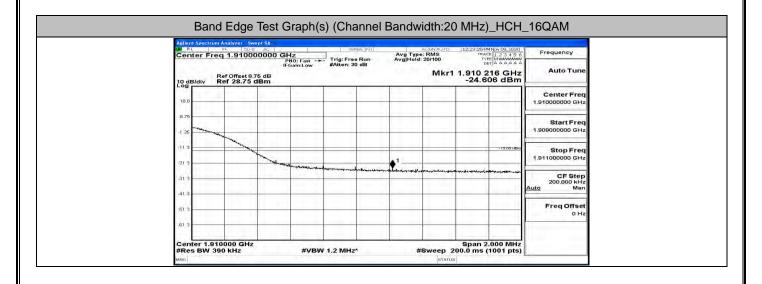






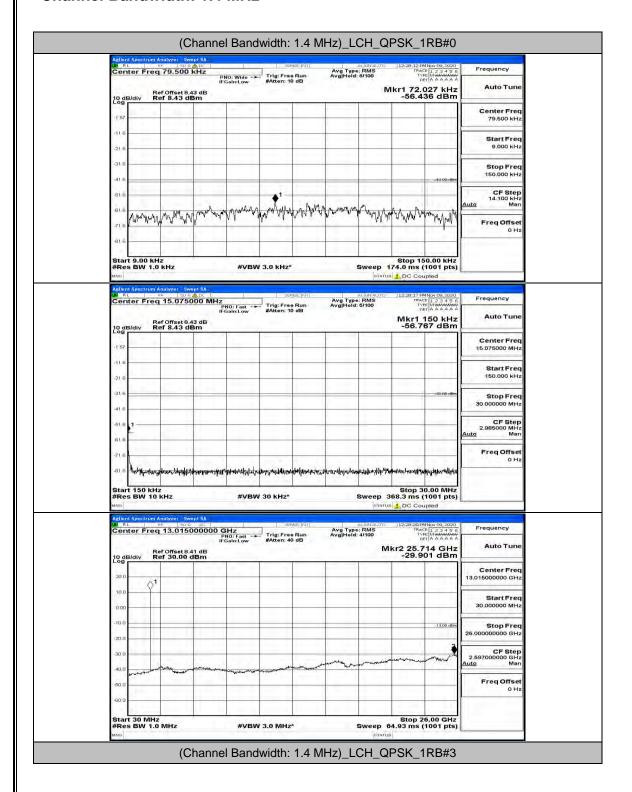


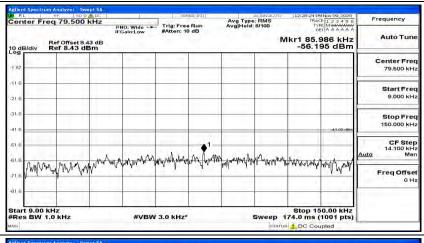


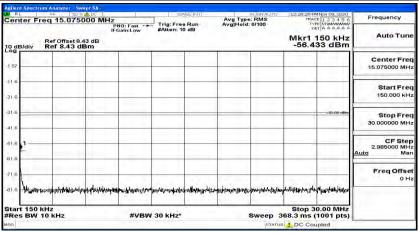


# **D.5 Conducted Spurious Emission**

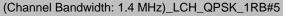
Channel Bandwidth: 1.4 MHz

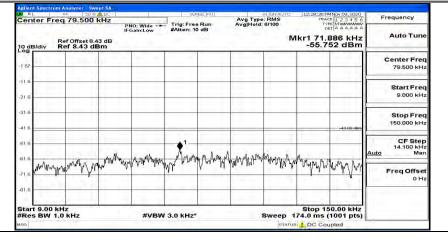


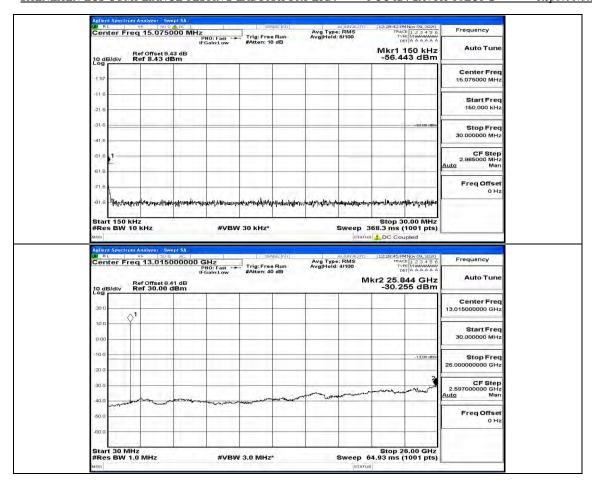


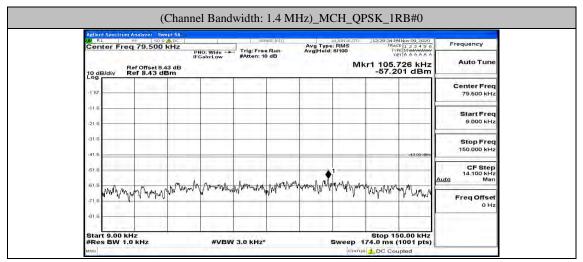










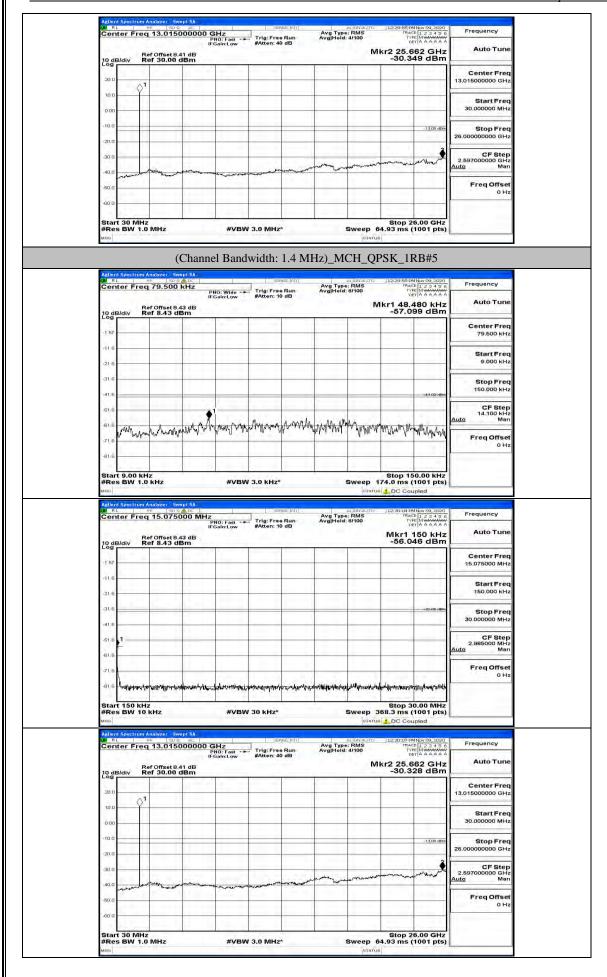


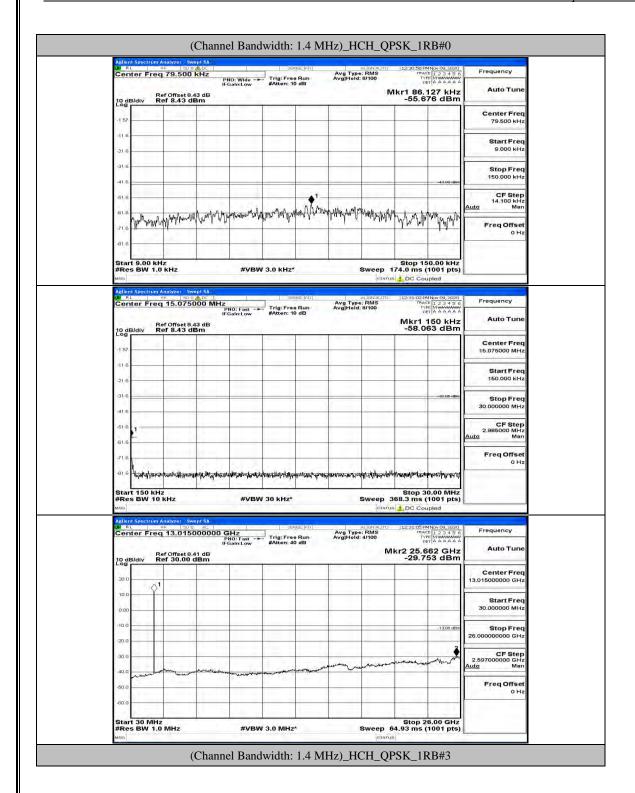
Stop 30.00 MHz Sweep 368.3 ms (1001 pts)

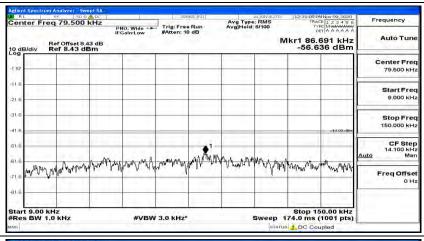
Start 150 kHz #Res BW 10 kHz

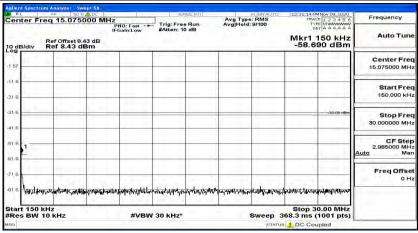
#VBW 30 kHz\*

CF Step 2.985000 MHz Man

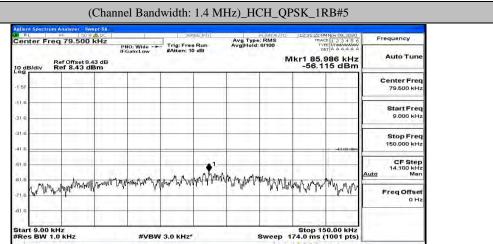


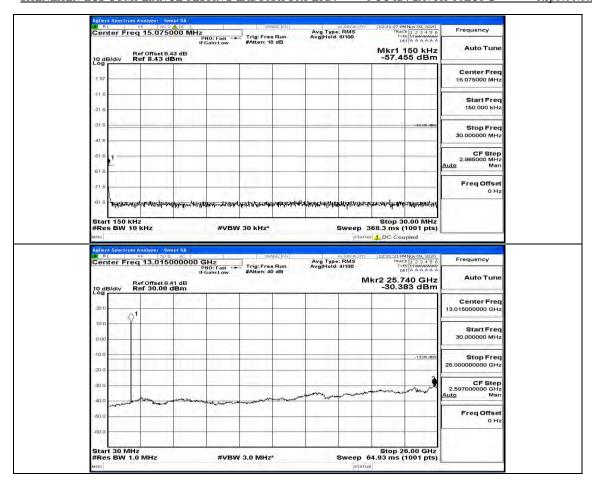


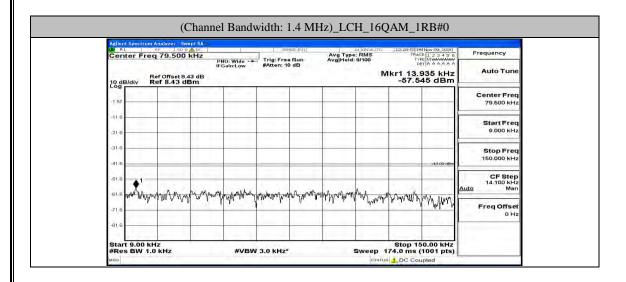










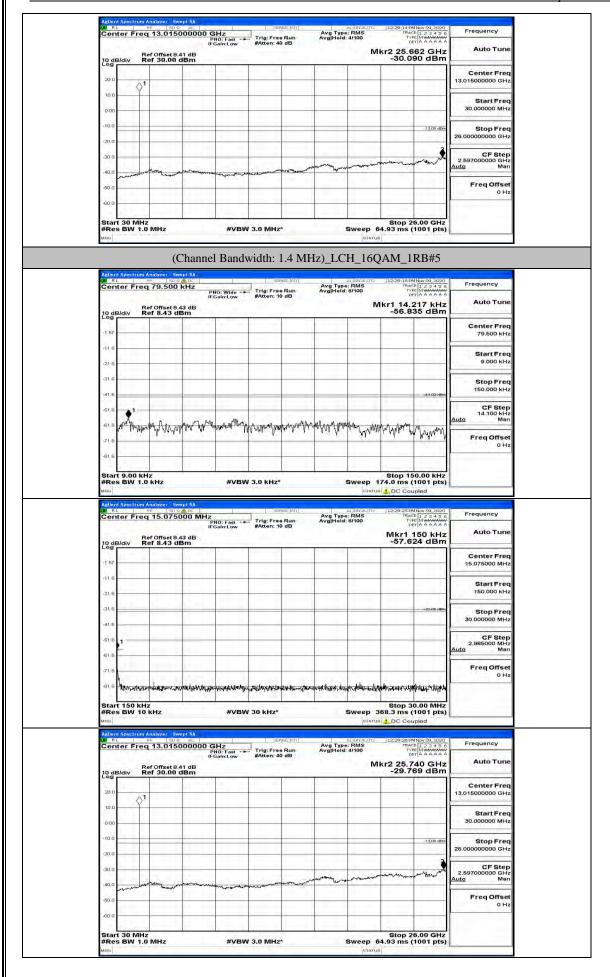


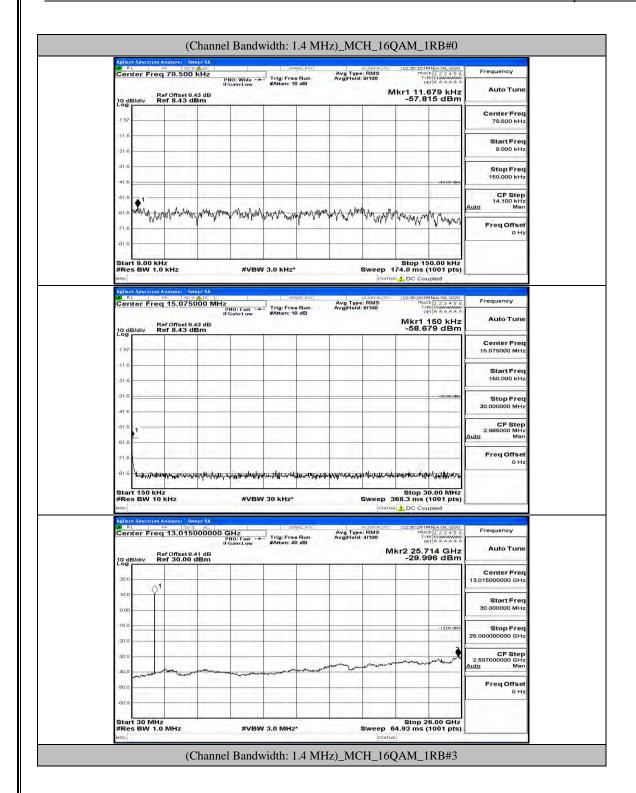
Stop 30.00 MHz Sweep 368.3 ms (1001 pts)

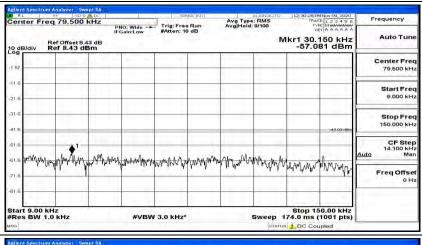
Start 150 kHz #Res BW 10 kHz

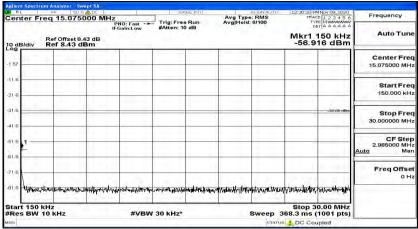
#VBW 30 kHz\*

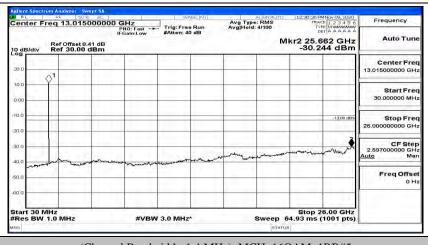
CF Step 2.985000 MHz Man

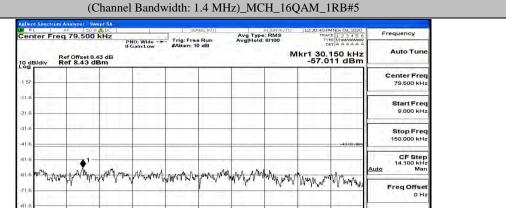






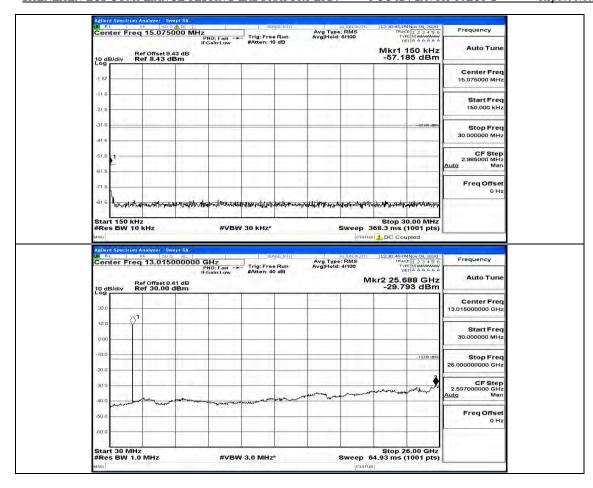


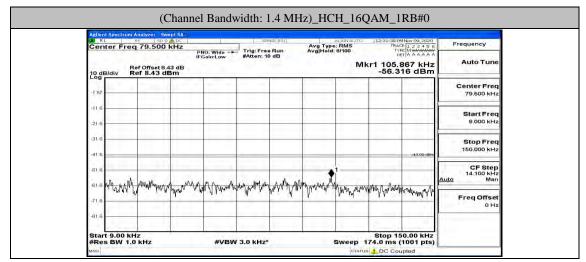




#VBW 3.0 kHz\*

Start 9.00 kHz #Res BW 1.0 kHz Stop 150.00 kHz Sweep 174.0 ms (1001 pts)



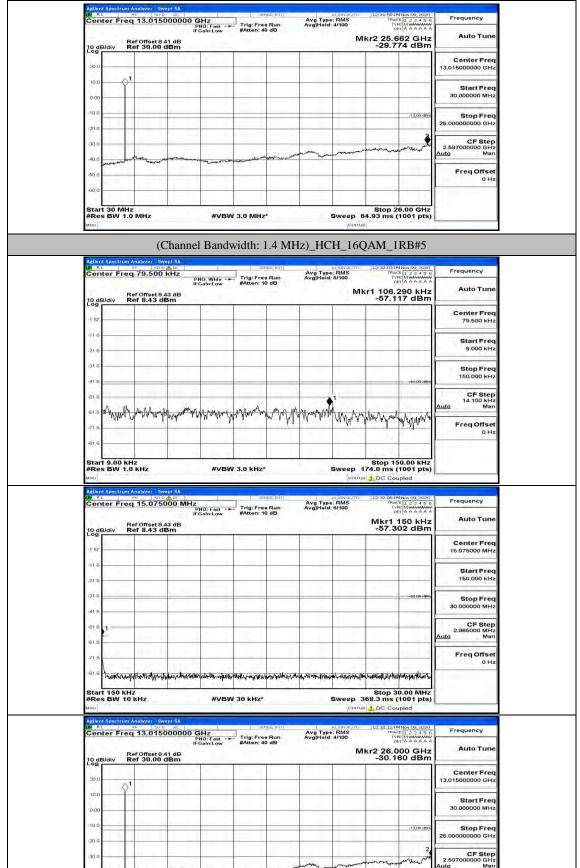


Stop 30.00 MHz Sweep 368.3 ms (1001 pts)

Start 150 kHz #Res BW 10 kHz

#VBW 30 kHz\*

Freq Offse

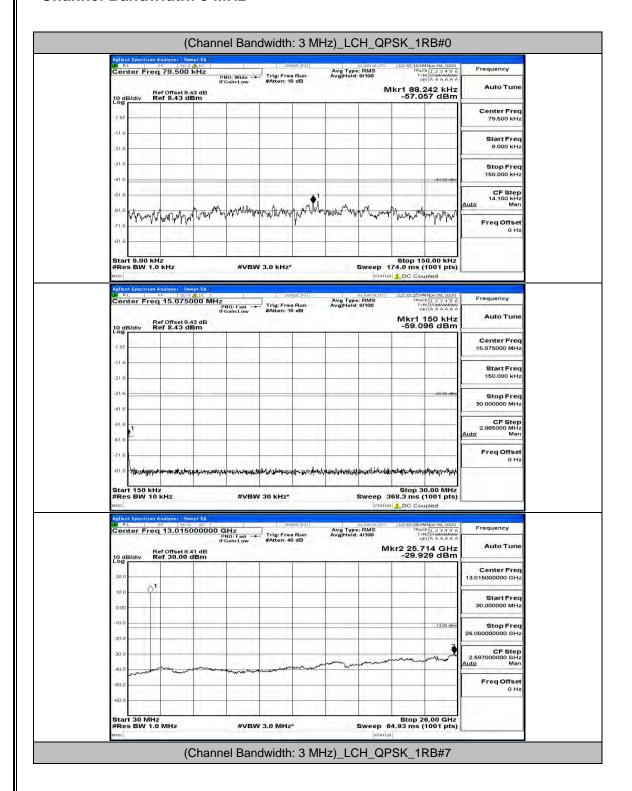


Start 30 MHz #Res BW 1.0 MHz

#VBW 3.0 MHz\*

Stop 26.00 GHz Sweep 64.93 ms (1001 pts) Freq Offset 0 Hz

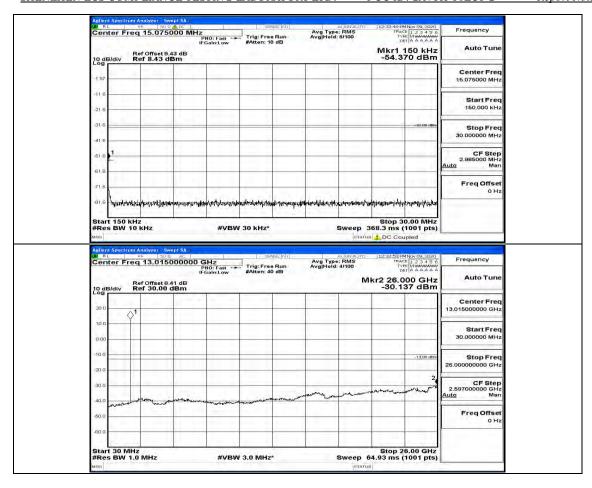
## **Channel Bandwidth: 3 MHz**

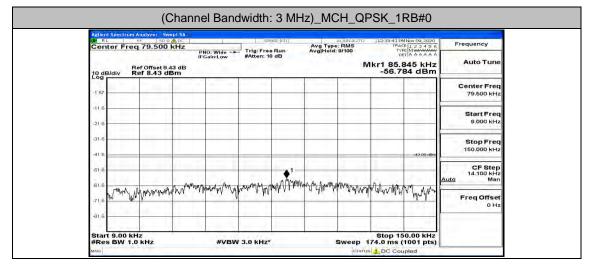


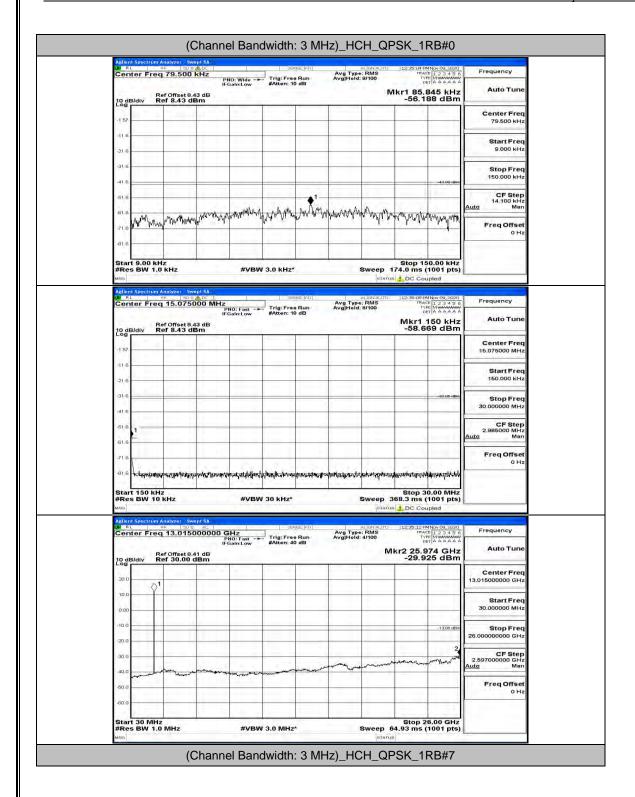
# | Ref | Start | Frequency | Start | Start | Frequency | Start | Start | Frequency | Start | Start | Start | Frequency | Start | Start | Frequency | Start | Start | Start | Frequency | Start | Start | Frequency | Start | Start | Start | Frequency | Start | Start | Frequency | Start | St

#VBW 3.0 kHz\*

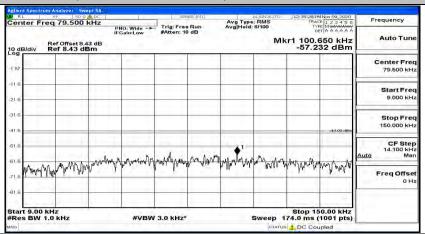
Start 9.00 kHz #Res BW 1.0 kHz Stop 150.00 kHz Sweep 174.0 ms (1001 pts)

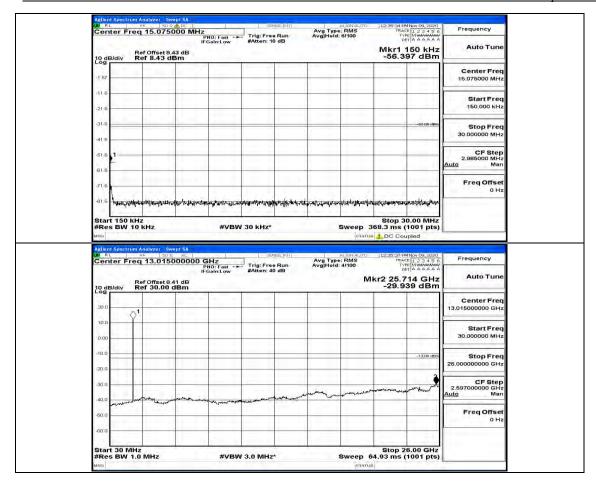


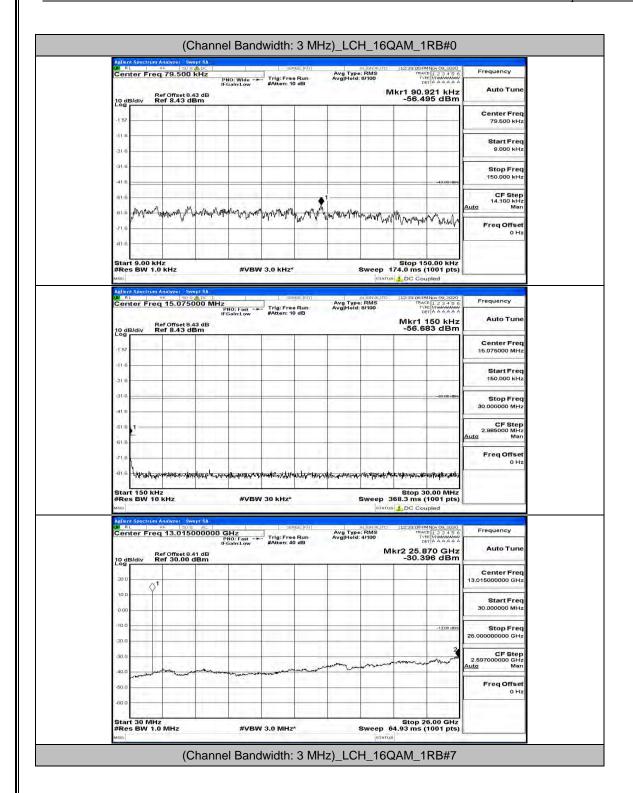


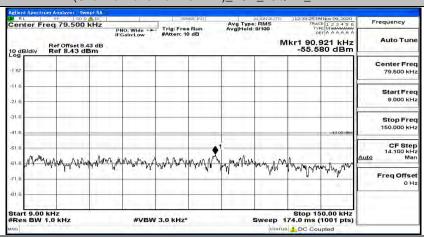


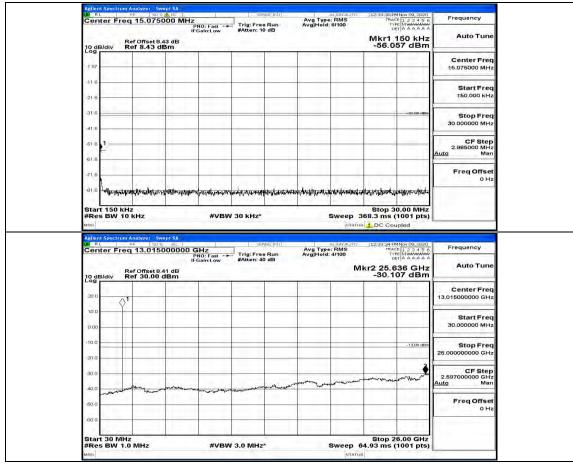
# (Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_1RB#14

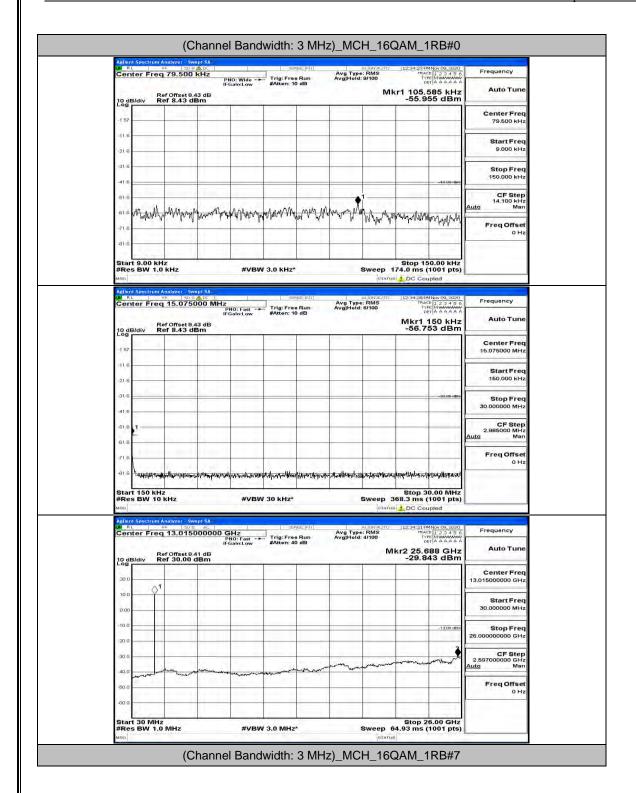


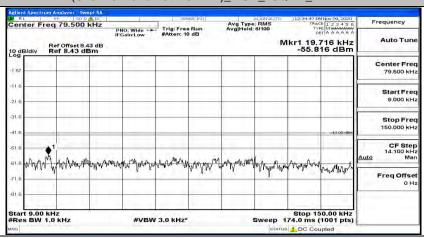


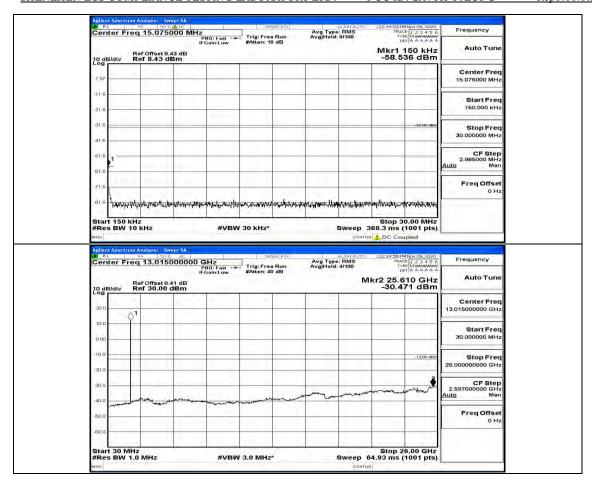


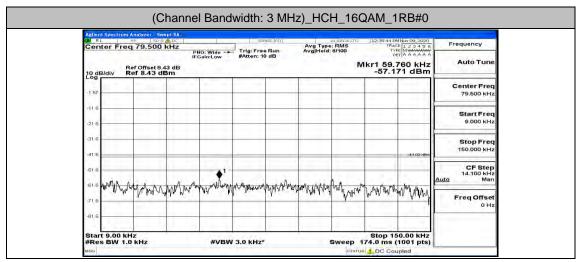












FCC ID: 2AVTH-10LC1-2

Report No.: LCS201026153AEG

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.

## **Channel Bandwidth: 5 MHz**

