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

**Product Name: Tablet PC** 

duubee Trade Mark:

Test Model: DT1052

## **Environmental Conditions**

Temperature:	22.5° C
Relative Humidity:	53.7%
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	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict		
Modulation	Channel	Size	Offset	QPSK	16QAM	verdict		
		1	0	22.30	21.42	PASS		
		1	3	22.27	21.31	PASS		
		1	5	22.29	21.37	PASS		
	LCH	3	0	22.15	21.03	PASS		
		3	2	22.16	21.04	PASS		
		3	3	22.18	20.94	PASS		
		6	0	21.49	20.58	PASS		
	MCH	1	0	21.46	21.51	PASS		
			1	3	21.48	21.55	PASS	
QPSK /		1	5	21.50	21.55	PASS		
16QAM		3	0	21.48	20.60	PASS		
IOQAM		3	2	21.56	20.58	PASS		
		3	3	21.50	20.60	PASS		
		6	0	21.25	20.39	PASS		
		1	0	22.80	21.81	PASS		
		1	3	22.81	21.81	PASS		
		1	5	22.75	21.83	PASS		
	HCH	3	0	22.72	21.39	PASS		
		3	2	22.68	21.38	PASS		
		3	3	22.70	21.39	PASS		
		6	0	21.64	20.81	PASS		

	Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)									
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict				
Modulation	Chamilei	Size	Offset	QPSK	16QAM	verdict				
		1	0	22.11	22.05	PASS				
		1	7	22.01	21.94	PASS				
		1	14	21.98	21.81	PASS				
	LCH	8	0	21.14	20.02	PASS				
		8	4	21.06	20.08	PASS				
		8	7	21.11	20.07	PASS				
QPSK /		15	0	21.06	20.11	PASS				
16QAM		1	0	21.29	20.20	PASS				
TOQAW		1	7	21.47	20.33	PASS				
		1	14	21.51	20.34	PASS				
	MCH	8	0	21.53	20.52	PASS				
		8	4	21.46	20.56	PASS				
		8	7	21.53	20.54	PASS				
		15	0	21.49	20.51	PASS				
	HCH	1	0	22.67	22.08	PASS				

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		1	7	22.65	21.97	PASS
		1	14	22.62	21.86	PASS
		8	0	21.68	20.25	PASS
		8	4	21.69	20.44	PASS
		8	7	21.75	20.59	PASS
		15	0	21.77	20.90	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	22.17	21.03	PASS		
		1	12	21.91	20.86	PASS		
		1	24	21.79	20.72	PASS		
	LCH	12	0	21.13	20.14	PASS		
		12	6	21.07	20.12	PASS		
		12	13	21.25	20.14	PASS		
		25	0	21.02	20.10	PASS		
		1	0	21.21	20.86	PASS		
		1	12	21.46	21.07	PASS		
QPSK /	МСН	1	24	21.66	21.16	PASS		
16QAM		12	0	21.43	20.50	PASS		
TOQAW		12	6	21.58	20.58	PASS		
		12	13	21.57	20.74	PASS		
		25	0	21.57	20.69	PASS		
		1	0	22.75	21.37	PASS		
		1	12	22.74	21.31	PASS		
		1	24	22.69	21.25	PASS		
	HCH	12	0	21.73	20.83	PASS		
		12	6	21.68	20.72	PASS		
		12	13	21.74	20.66	PASS		
		25	0	21.74	20.90	PASS		

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)								
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Vandiat		
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict		
		1	0	22.13	21.82	PASS		
		1	24	21.80	21.16	PASS		
		1	49	21.41	20.67	PASS		
	LCH	25	0	20.96	20.29	PASS		
		25	12	20.88	20.13	PASS		
		25	25	20.67	20.06	PASS		
		50	0	20.81	20.04	PASS		
		1	0	21.25	20.70	PASS		
	МСН	1	24	21.63	21.03	PASS		
QPSK /		1	49	21.99	21.28	PASS		
16QAM		25	0	21.47	20.50	PASS		
IOQAW		25	12	21.55	20.61	PASS		
		25	25	21.82	20.76	PASS		
		50	0	21.52	20.71	PASS		
		1	0	22.70	21.69	PASS		
		1	24	22.75	21.81	PASS		
		1	49	22.81	21.71	PASS		
	HCH	25	0	21.63	20.72	PASS		
		25	12	21.76	20.74	PASS		
		25	25	21.68	20.81	PASS		
		50	0	21.66	20.82	PASS		

Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)								
Madulation	Channal	RB Configuration		Average Power [dBm]	Average Power [dBm]	\/a ==li =4		
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict		
		1	0	22.15	22.13	PASS		
		1	37	21.63	21.58	PASS		
		1	74	21.20	21.20	PASS		
	LCH	37	0	21.85	20.94	PASS		
		37	18	21.63	20.55	PASS		
		37	38	21.49	20.27	PASS		
		75	0	21.21	20.06	PASS		
	мсн	1	0	21.13	20.55	PASS		
		1	37	21.42	21.04	PASS		
QPSK /		1	74	22.08	21.49	PASS		
16QAM		37	0	21.28	20.43	PASS		
TOQAW		37	18	21.60	20.62	PASS		
		37	38	21.78	20.99	PASS		
		75	0	21.64	20.67	PASS		
		1	0	22.46	21.41	PASS		
		1	37	22.83	21.82	PASS		
		1	74	22.77	21.77	PASS		
	HCH	37	0	21.55	20.62	PASS		
		37	18	21.79	20.65	PASS		
		37	38	21.73	20.90	PASS		
		75	0	21.71	20.61	PASS		

Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)								
Madulation	Channal	RB Configuration		Average Power [dBm]	Average Power [dBm]	\/a ==li =4		
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict		
		1	0	22.18	21.53	PASS		
		1	49	21.55	20.98	PASS		
		1	99	21.35	20.77	PASS		
	LCH	50	0	21.86	20.91	PASS		
		50	25	21.45	20.51	PASS		
		50	50	21.26	20.35	PASS		
		100	0	21.51	20.51	PASS		
	MCH	1	0	21.31	20.66	PASS		
		1	49	21.57	21.01	PASS		
QPSK /		1	99	22.48	21.87	PASS		
16QAM		50	0	21.28	20.62	PASS		
TOQAW		50	25	21.51	20.62	PASS		
		50	50	21.50	20.56	PASS		
		100	0	21.54	20.47	PASS		
		1	0	21.95	21.38	PASS		
		1	49	22.80	22.19	PASS		
		1	99	22.76	22.33	PASS		
	HCH	50	0	21.29	20.36	PASS		
		50	25	21.52	20.63	PASS		
		50	50	21.75	20.82	PASS		
		100	0	21.44	20.54	PASS		

# **G.2 Peak-to-Average Ratio**

Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)								
Modulation	Ohamad	Peak-to-Average Ratio	Limit	Verdict				
Modulation	Channel	[dB]	[dB]	verdict				
	LCH	5.88	<13	PASS				
QPSK	MCH	5.26	<13	PASS				
	HCH	5.9	<13	PASS				
16QAM	LCH	6.83	<13	PASS				
	MCH	6.08	<13	PASS				
	HCH	6.84	<13	PASS				

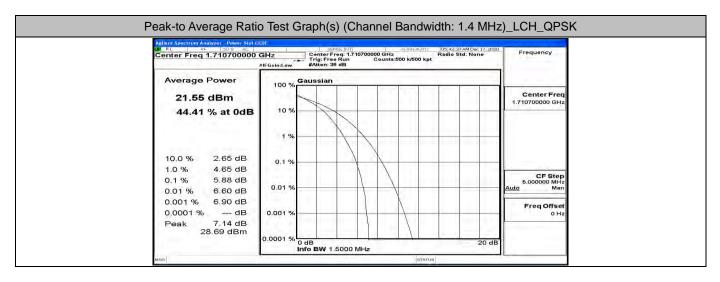
Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)								
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict				
Modulation	Griannei	[dB]	[dB]	verdict				
	LCH	5.93	<13	PASS				
QPSK	MCH	5.36	<13	PASS				
	HCH	5.76	<13	PASS				
	LCH	6.89	<13	PASS				
16QAM	MCH	6.2	<13	PASS				
	HCH	6.58	<13	PASS				

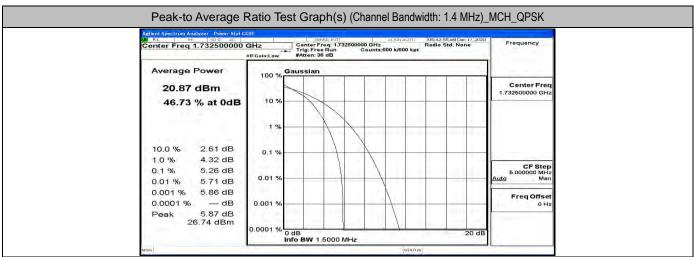
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)								
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict				
Modulation	Griannei	[dB]	[dB]	verdict				
	LCH	5.88	<13	PASS				
QPSK	MCH	5.25	<13	PASS				
	HCH	5.74	<13	PASS				
	LCH	6.56	<13	PASS				
16QAM	MCH	6.08	<13	PASS				
	HCH	6.47	<13	PASS				

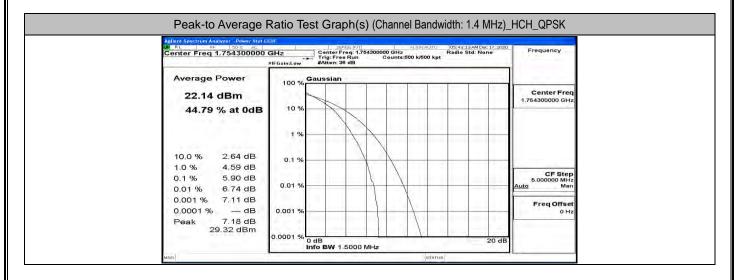
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)								
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict				
Modulation	Griannei	[dB]	[dB]	verdict				
	LCH	5.9	<13	PASS				
QPSK	MCH	5.46	<13	PASS				
	HCH	5.71	<13	PASS				
	LCH	6.62	<13	PASS				
16QAM	MCH	6.21	<13	PASS				
	HCH	6.53	<13	PASS				

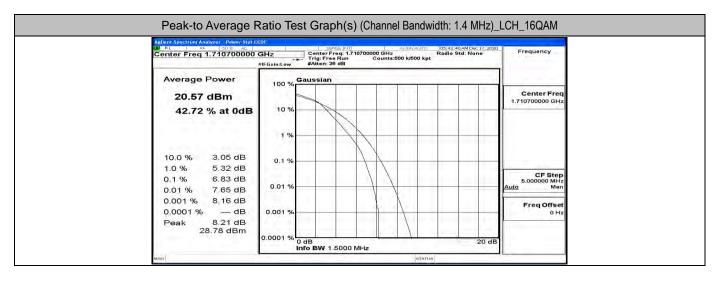
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict	
Modulation		[dB]	[dB]		
	LCH	5.05	<13	PASS	
QPSK	MCH	4.89	<13	PASS	
	HCH	4.96	<13	PASS	
16QAM	LCH	6.37	<13	PASS	
	MCH	6.21	<13	PASS	
	HCH	6.35	<13	PASS	

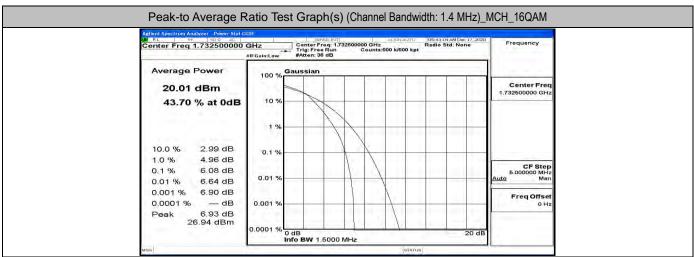
Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)					
Maralista Cara	Channel	Peak-to-Average Ratio	Limit	Verdict	
Modulation		[dB]	[dB]		
	LCH	5.76	<13	PASS	
QPSK	MCH	5.67	<13	PASS	
	HCH	5.77	<13	PASS	
16QAM	LCH	6.79	<13	PASS	
	MCH	6.66	<13	PASS	
	HCH	6.79	<13	PASS	

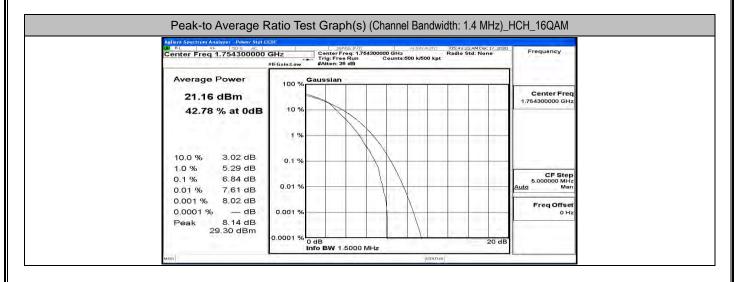


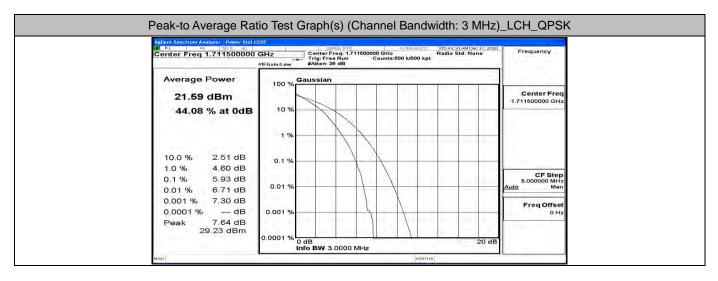


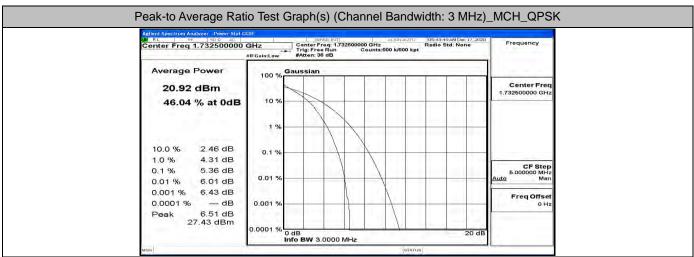


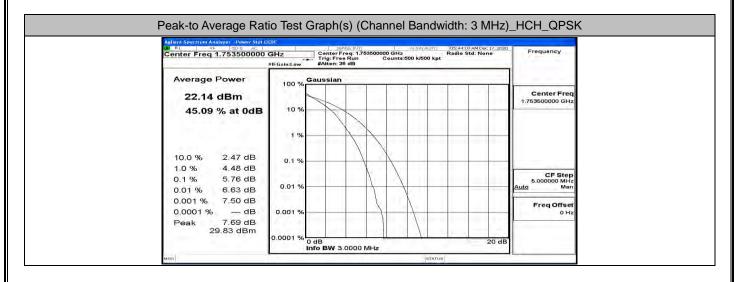


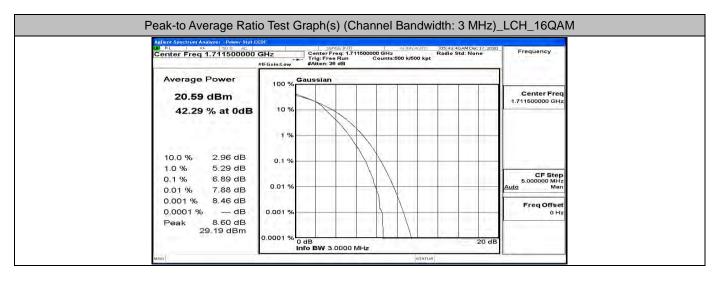


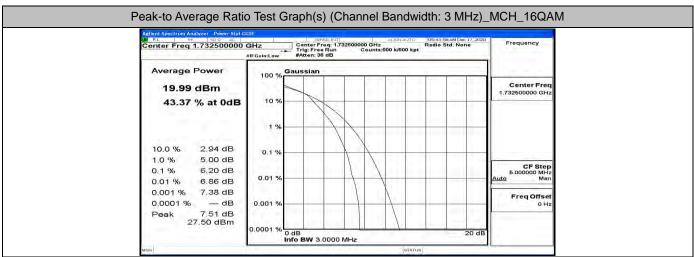


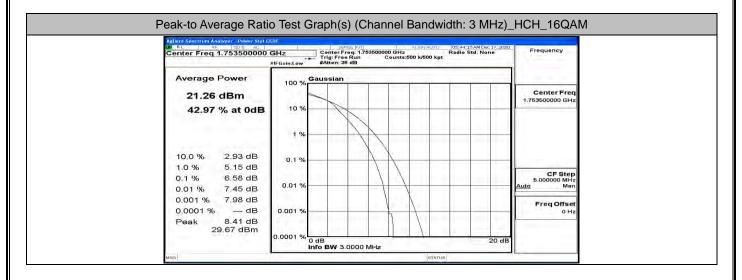


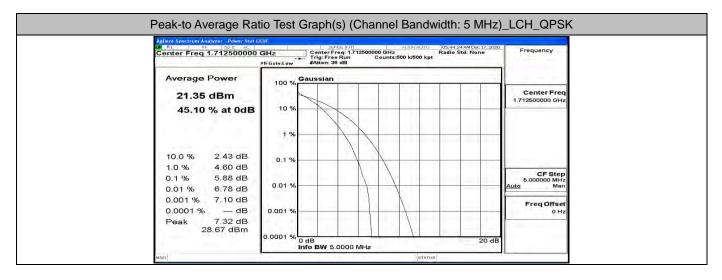


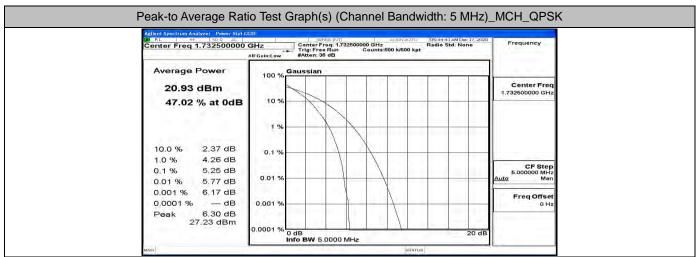


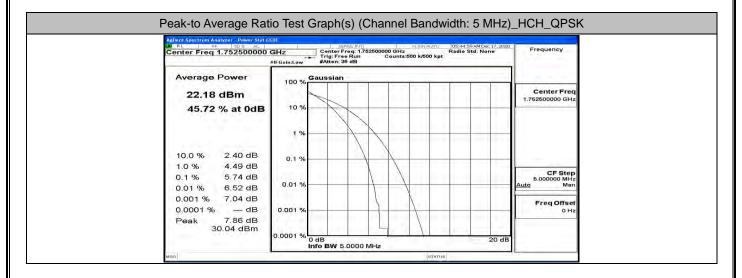


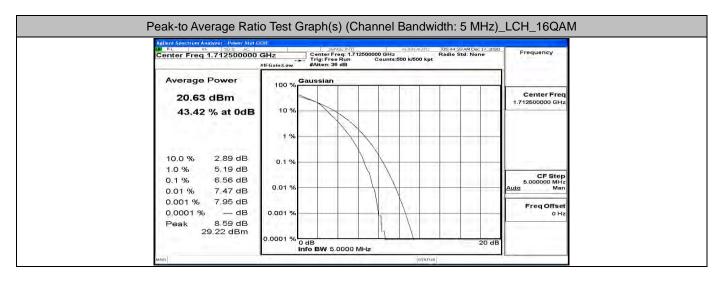


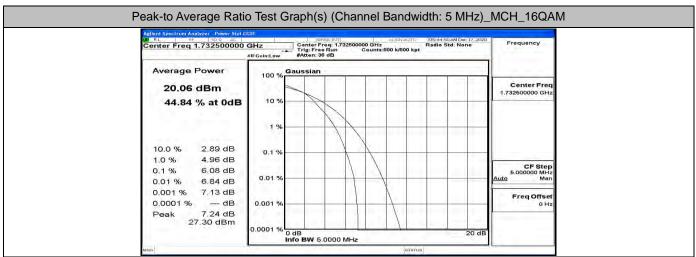


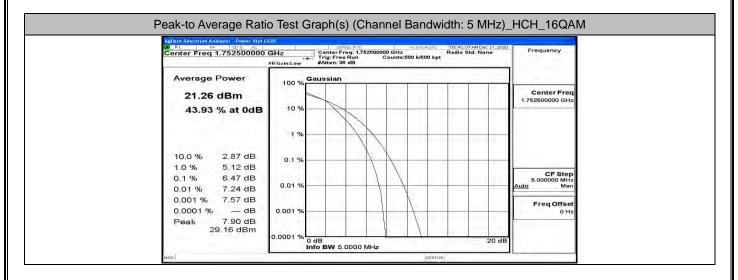


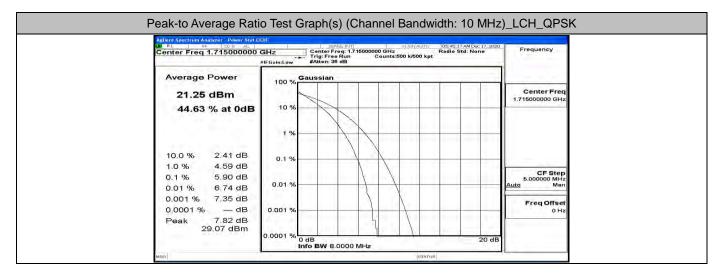


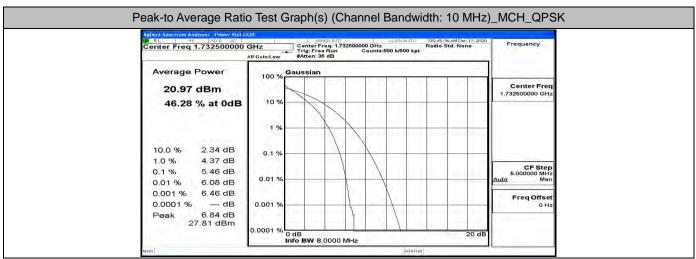


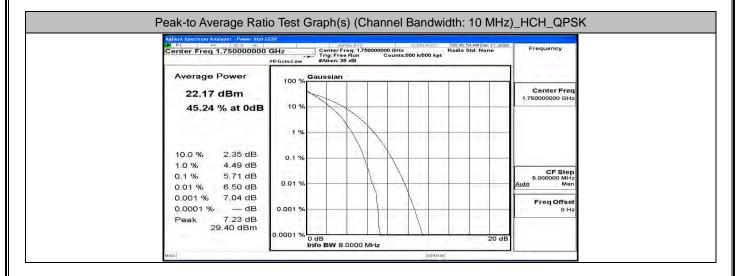




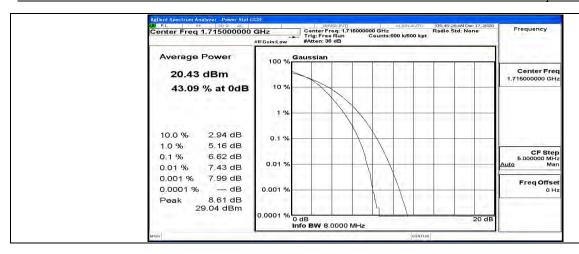


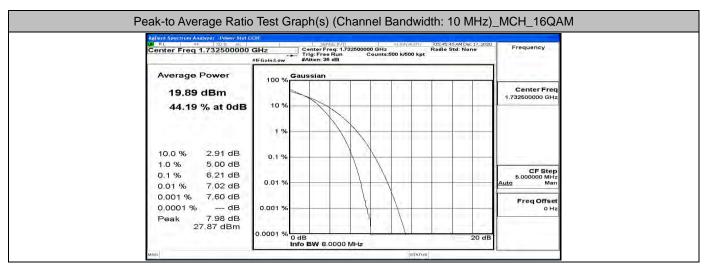


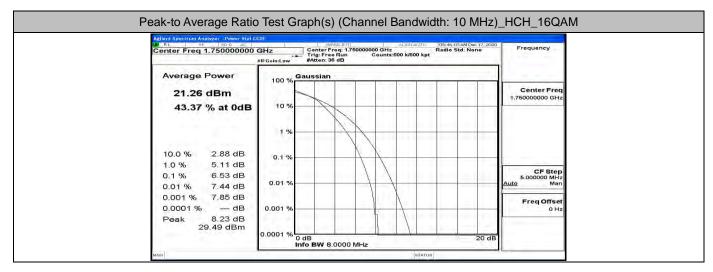




Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM

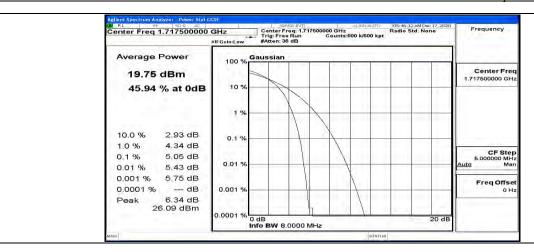


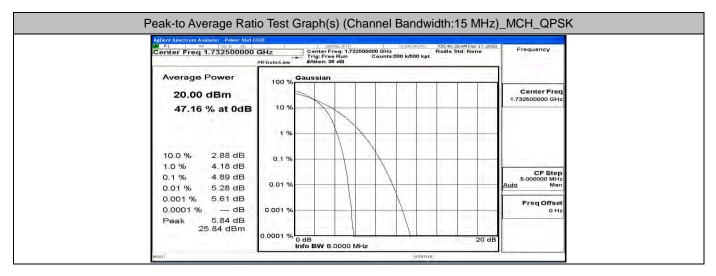


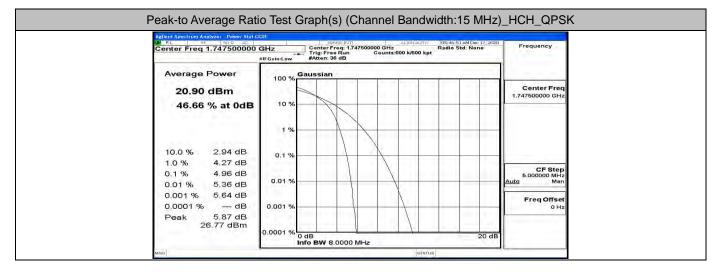


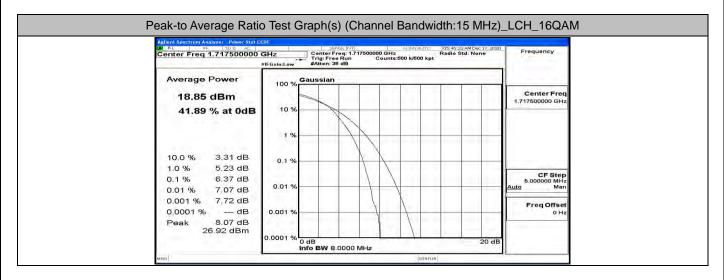
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_LCH\_QPSK

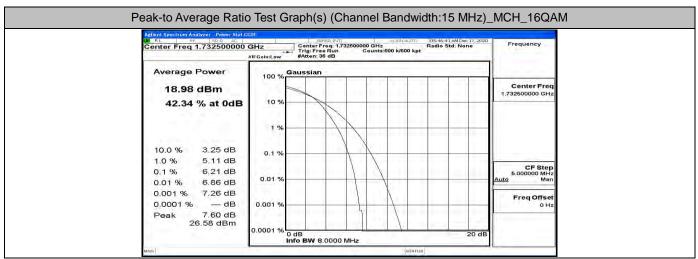
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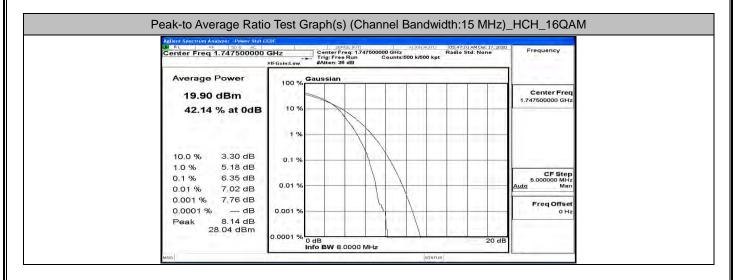


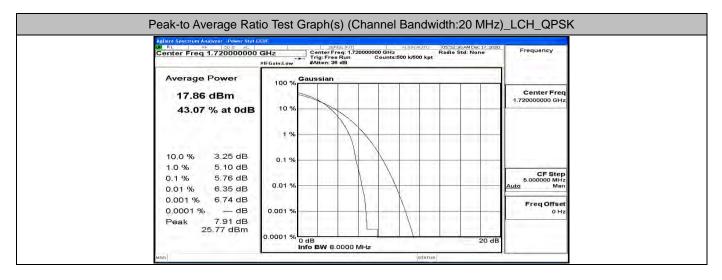


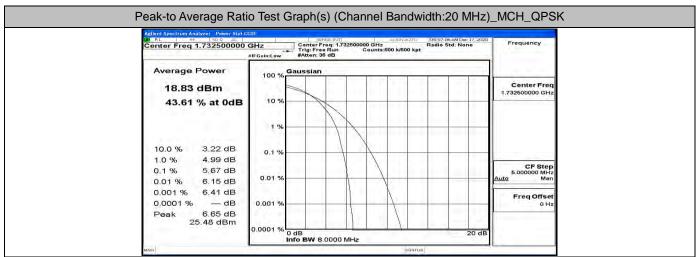


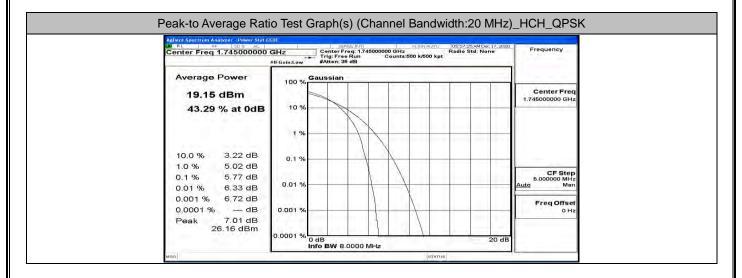


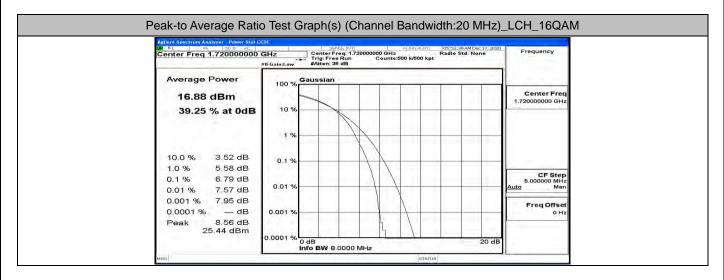


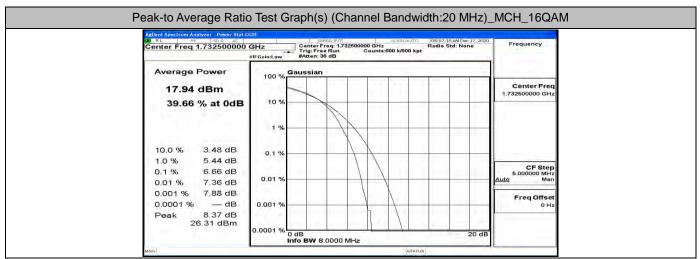


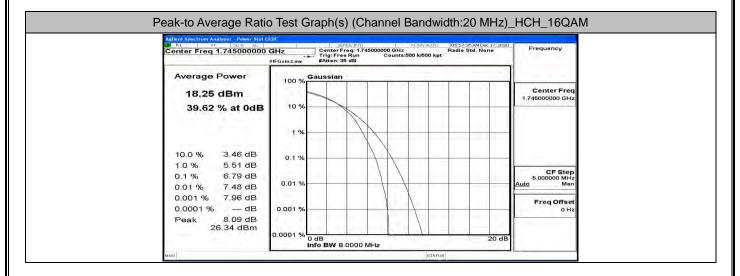












# G.3 26dB Bandwidth and Occupied Bandwidth

EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation		(MHz)	(MHz)		
	LCH	1.0797	1.210	PASS	
QPSK	MCH	1.0768	1.222	PASS	
	HCH	1.0752	1.211	PASS	
16QAM	LCH	1.0760	1.220	PASS	
	MCH	1.0802	1.220	PASS	
	HCH	1.0783	1.228	PASS	

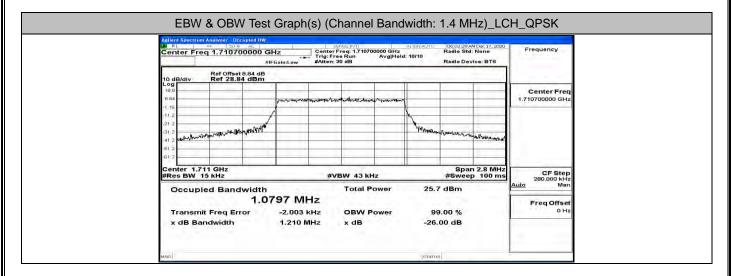
EBW & OBW Test Result (Channel Bandwidth: 3 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation		(MHz)	(MHz)		
	LCH	2.6944	3.051	PASS	
QPSK	MCH	2.6799	2.932	PASS	
	HCH	2.6837	2.947	PASS	
16QAM	LCH	2.6899	2.951	PASS	
	MCH	2.6865	2.943	PASS	
	HCH	2.6862	2.944	PASS	

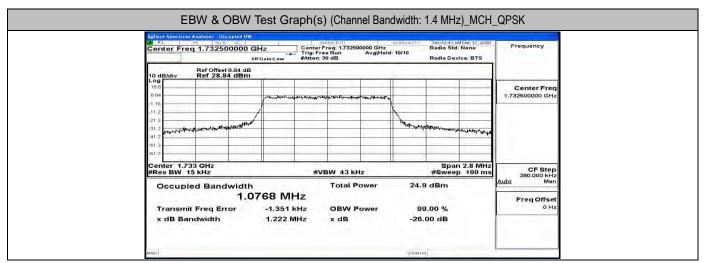
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation		(MHz)	(MHz)		
QPSK	LCH	4.4705	4.831	PASS	
	MCH	4.4671	4.891	PASS	
	HCH	4.4754	4.808	PASS	
16QAM	LCH	4.4668	4.841	PASS	
	MCH	4.4692	4.818	PASS	
	HCH	4.4664	4.786	PASS	

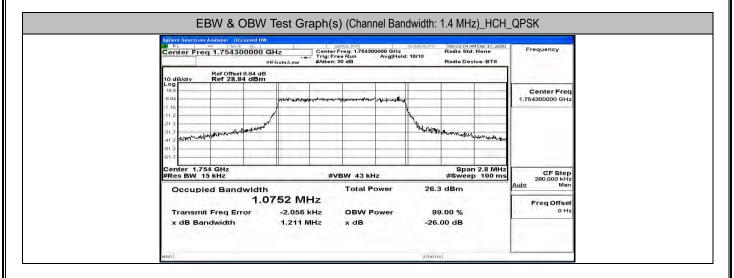
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation		(MHz)	(MHz)		
QPSK	LCH	8.9504	9.514	PASS	
	MCH	8.9243	9.452	PASS	
	HCH	8.9261	9.461	PASS	
16QAM	LCH	8.9359	9.493	PASS	
	MCH	8.9468	9.569	PASS	
	HCH	8.9191	9.570	PASS	

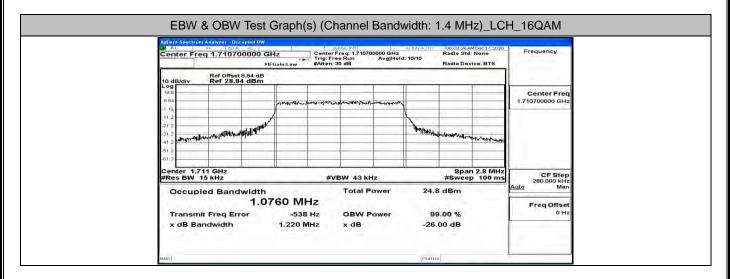
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation		(MHz)	(MHz)		
	LCH	13.416	14.13	PASS	
QPSK	MCH	13.351	13.97	PASS	
	HCH	13.388	14.16	PASS	
16QAM	LCH	13.418	14.18	PASS	
	MCH	13.361	14.14	PASS	
	HCH	13.390	14.06	PASS	

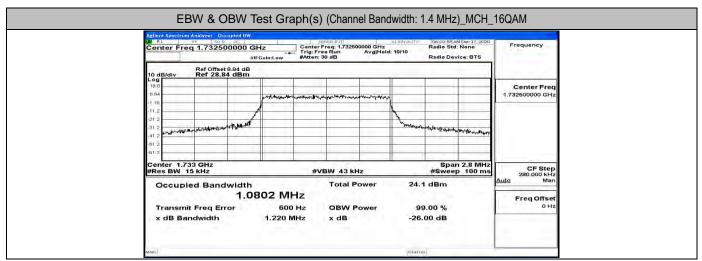
EBW & OBW Test Result (Channel Bandwidth: 20 MHz)					
Mandadatian	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation		(MHz)	(MHz)		
QPSK	LCH	17.881	18.87	PASS	
	MCH	17.833	18.67	PASS	
	HCH	17.879	18.78	PASS	
16QAM	LCH	17.944	18.86	PASS	
	MCH	17.814	18.59	PASS	
	HCH	17.899	18.62	PASS	

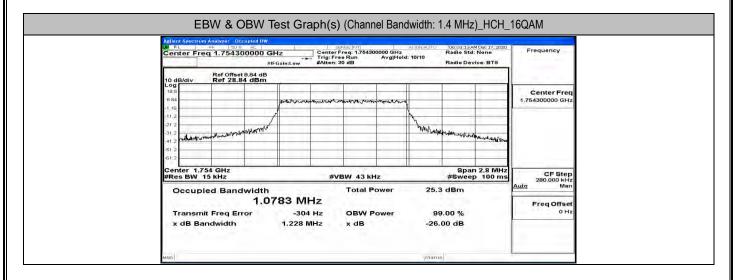


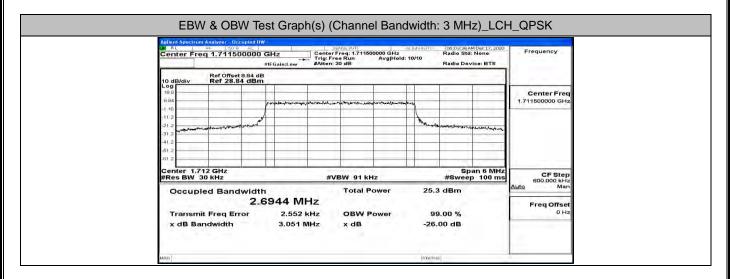


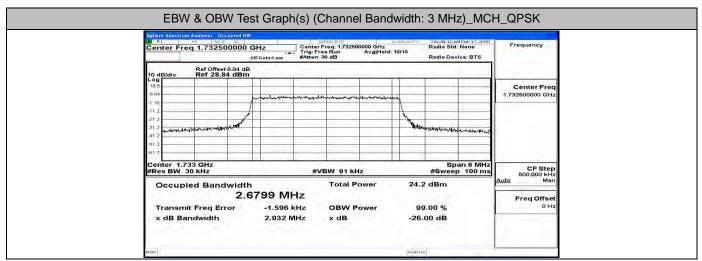


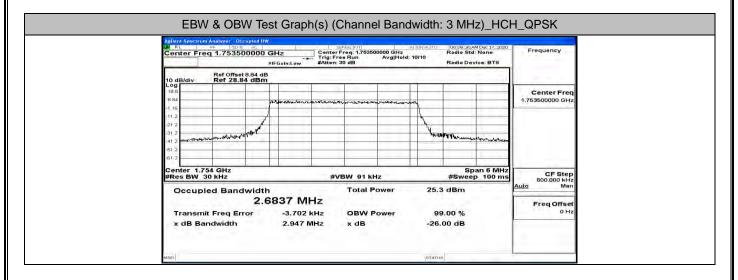


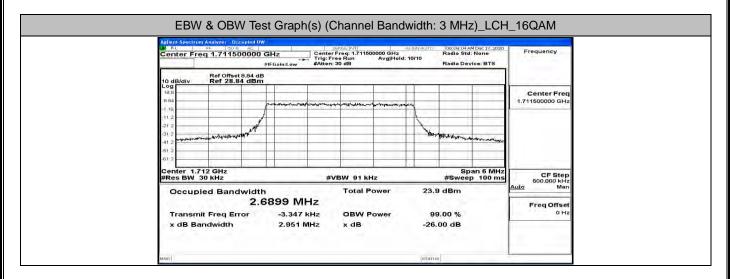


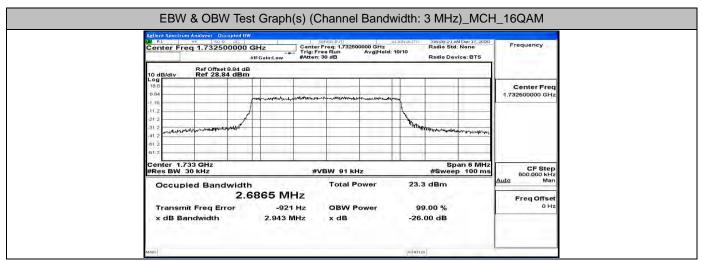


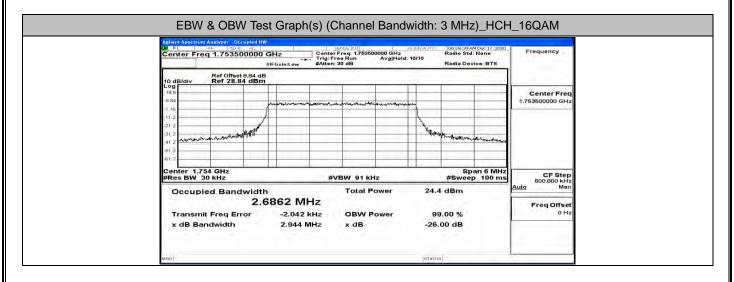


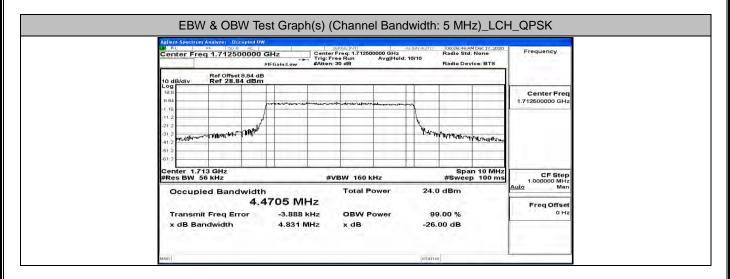


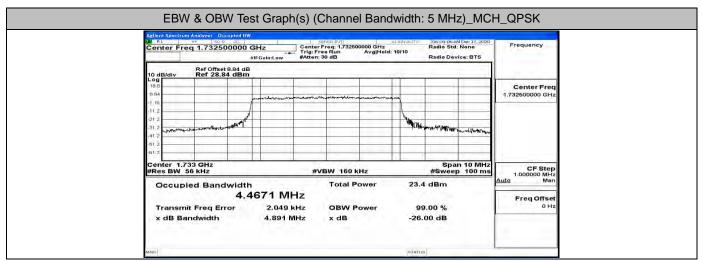


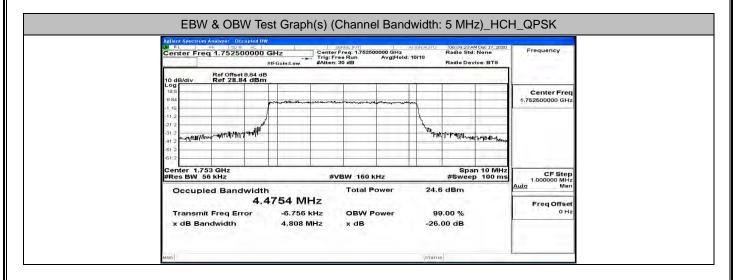


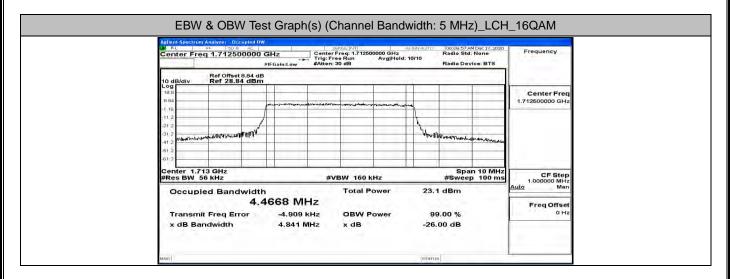


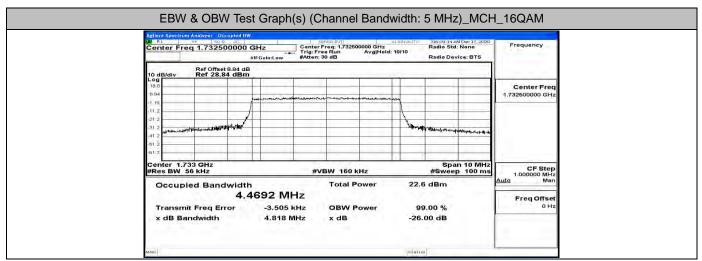


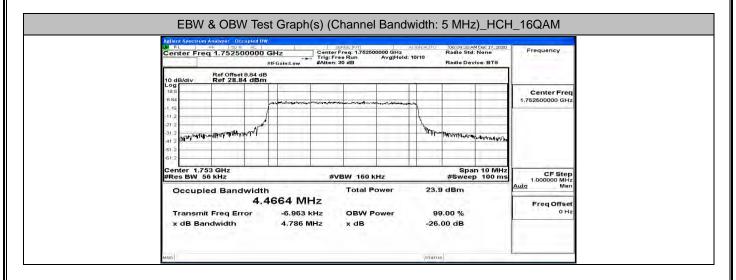


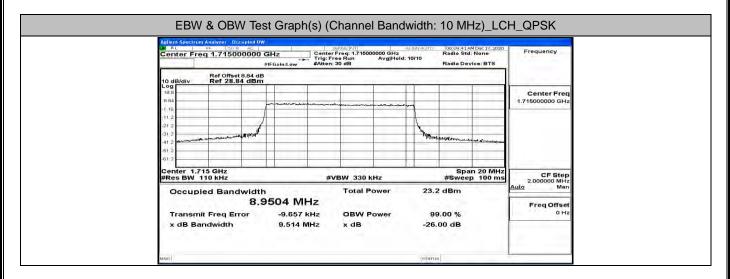


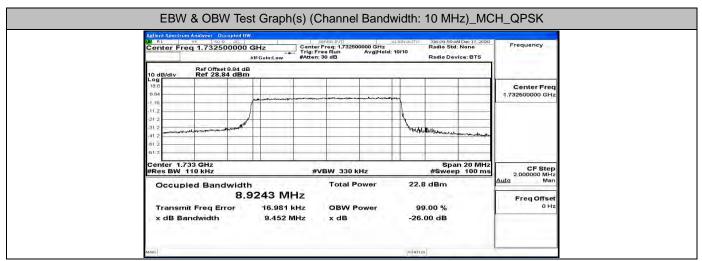


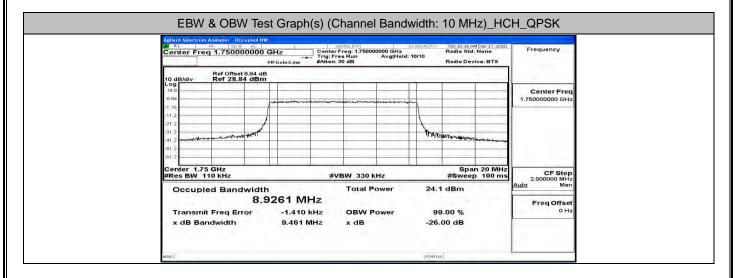


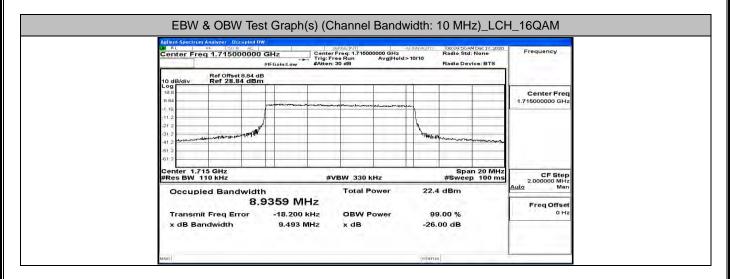


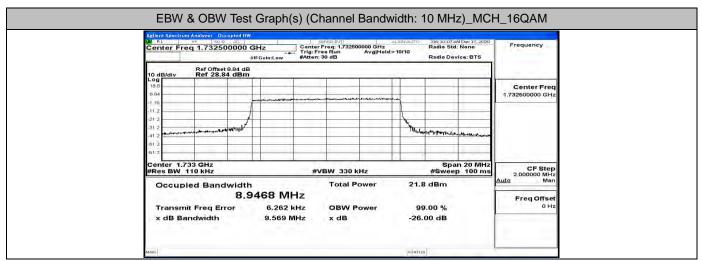


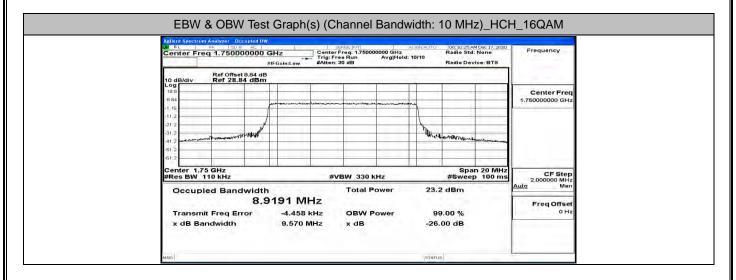


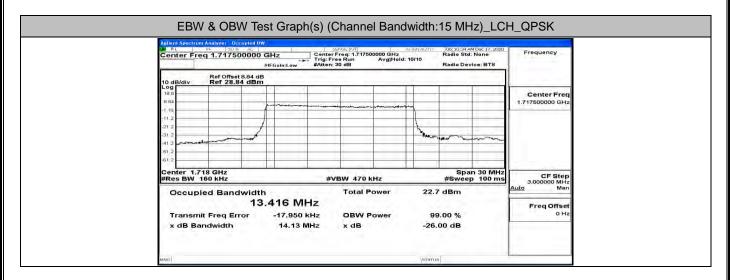


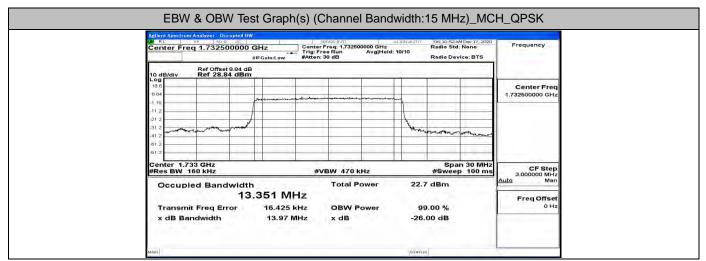


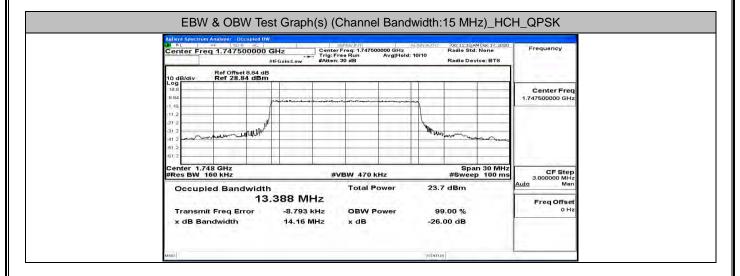


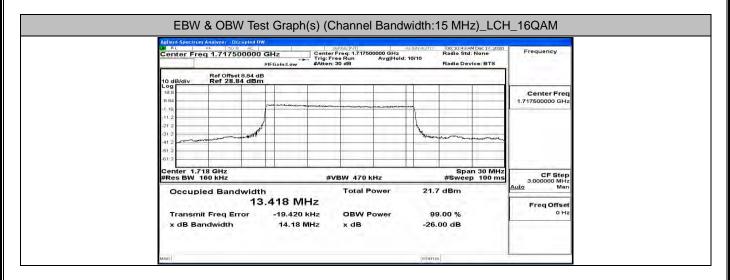


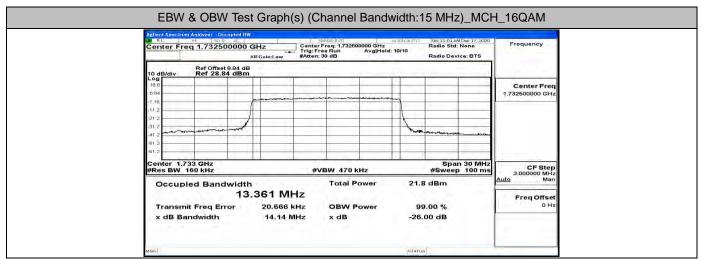


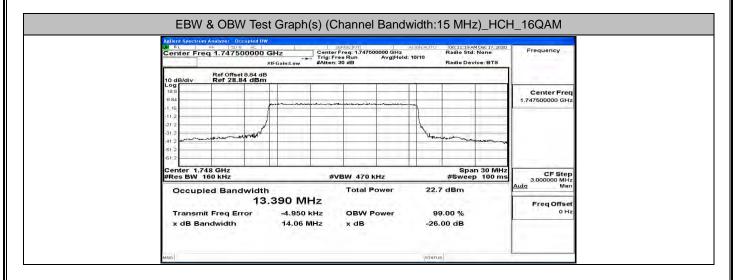


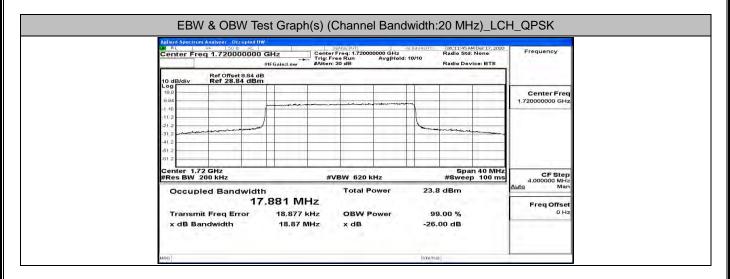


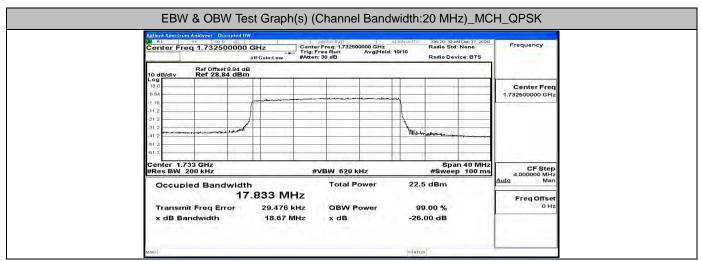


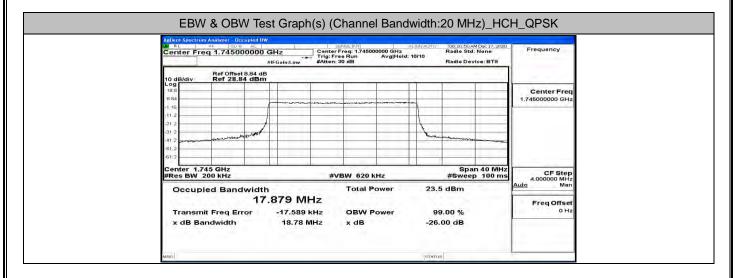


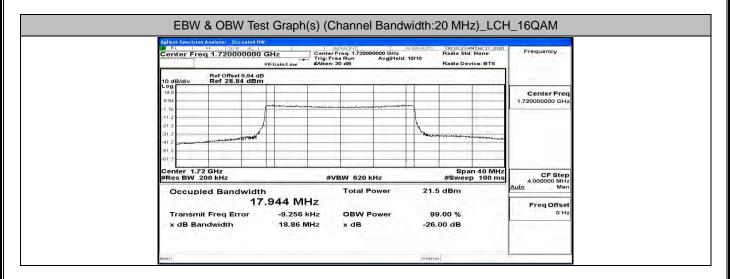


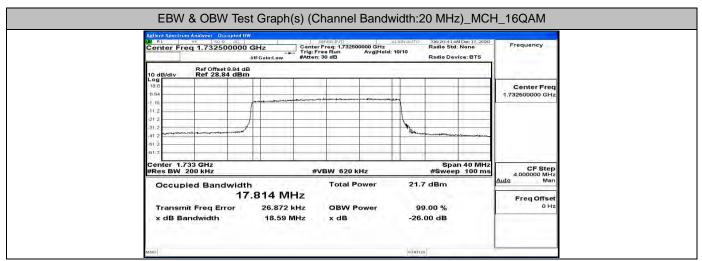


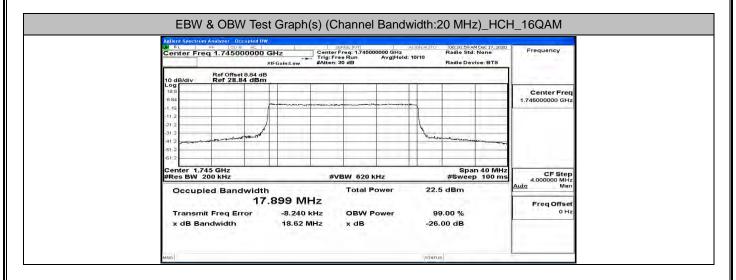




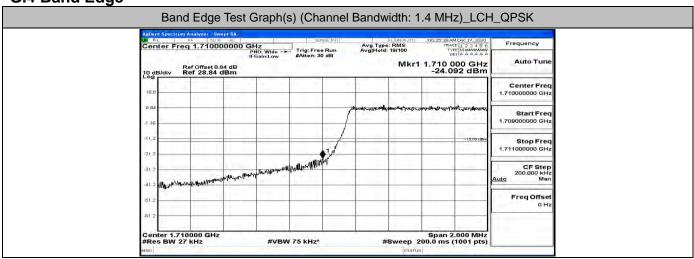


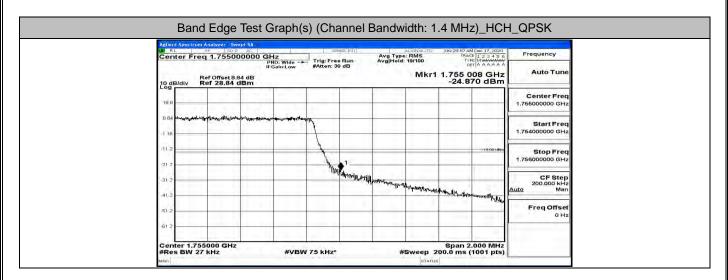


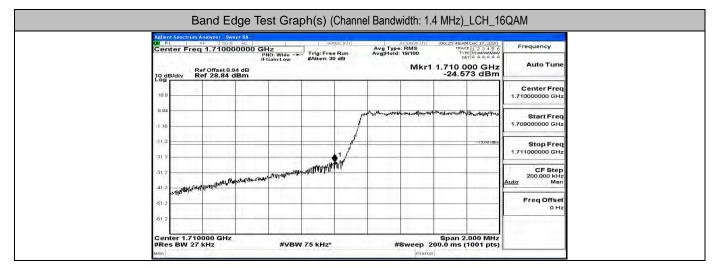


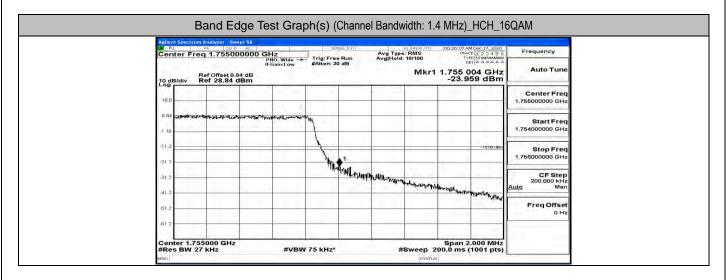


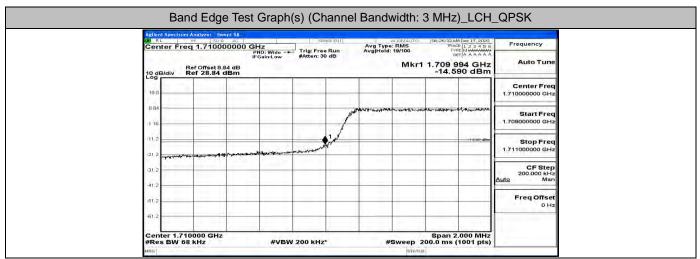
**G.4 Band Edge** 

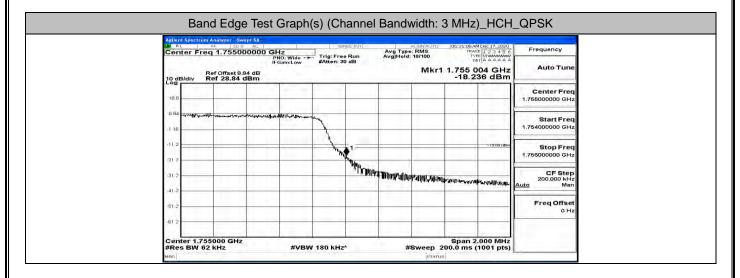


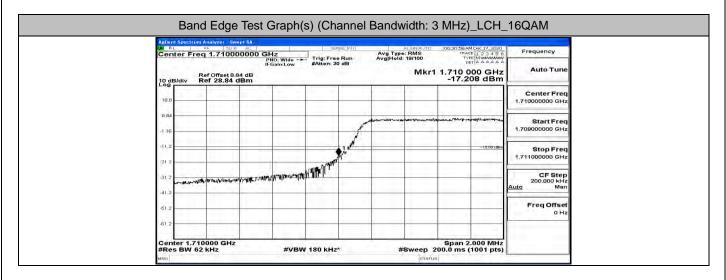


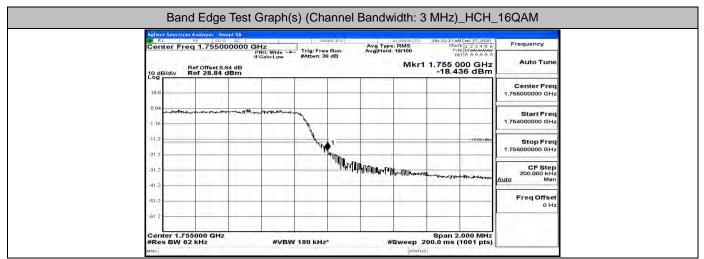


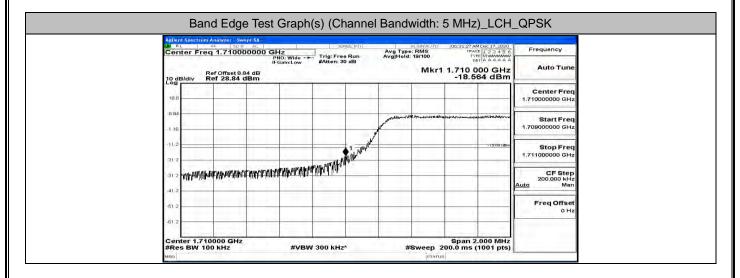


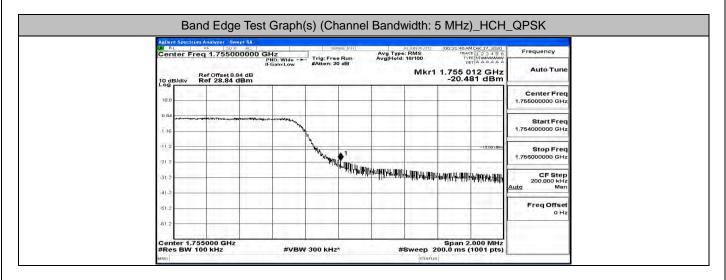


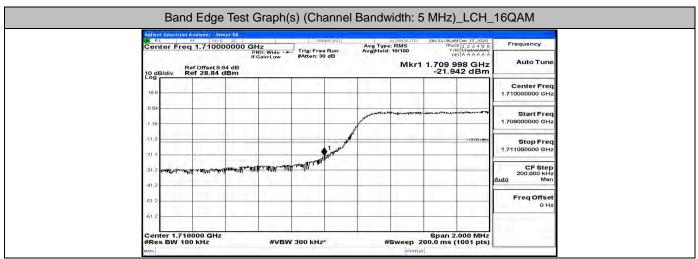


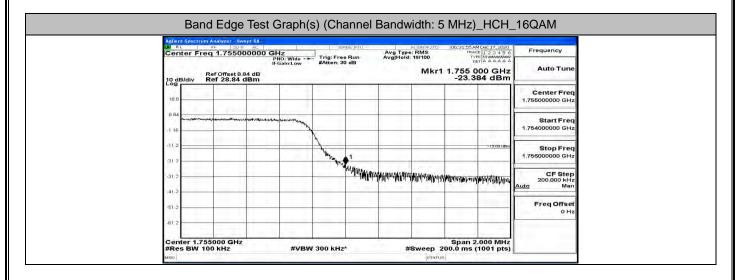


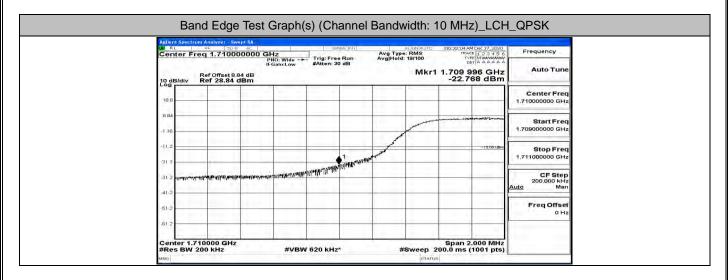


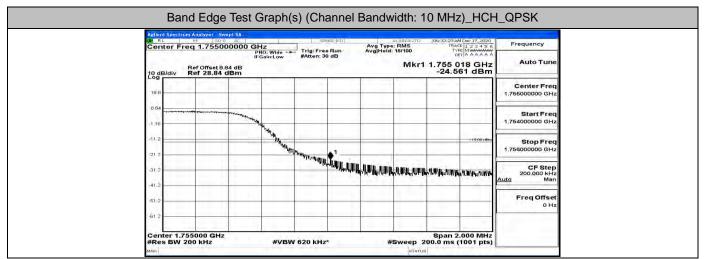


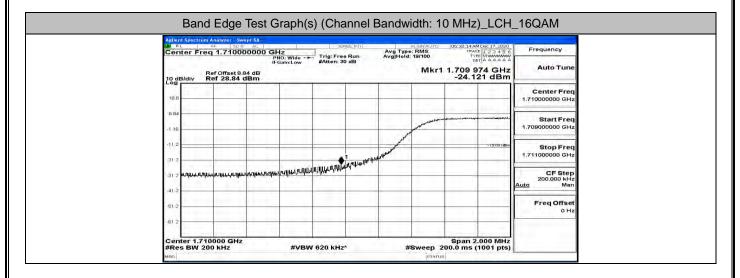


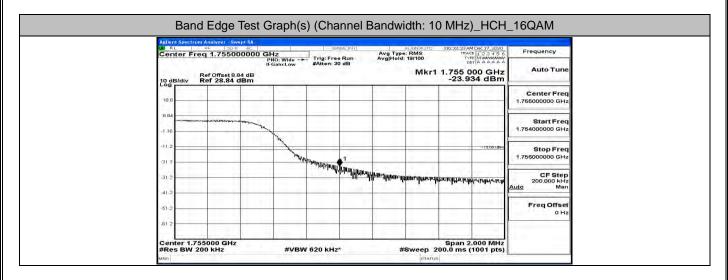


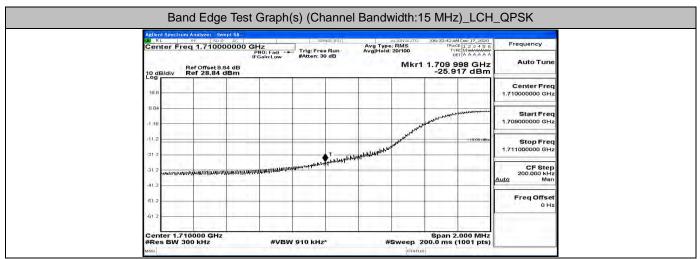


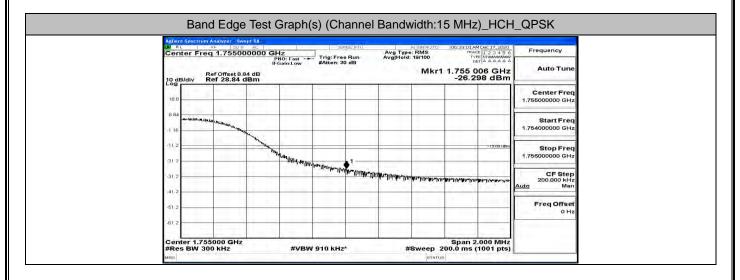


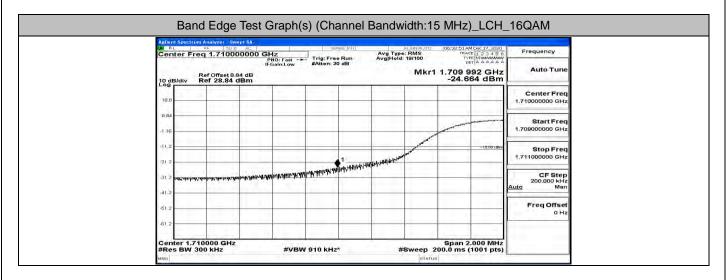


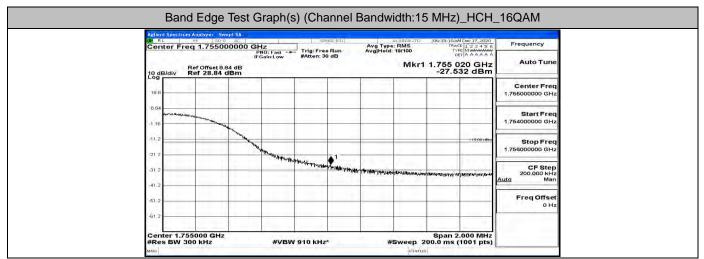


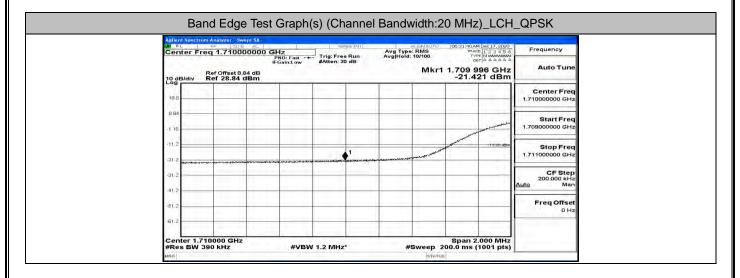


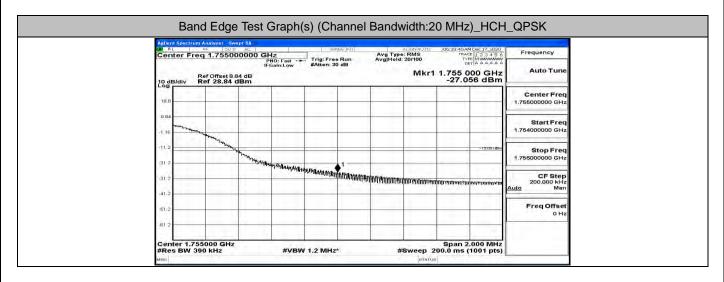


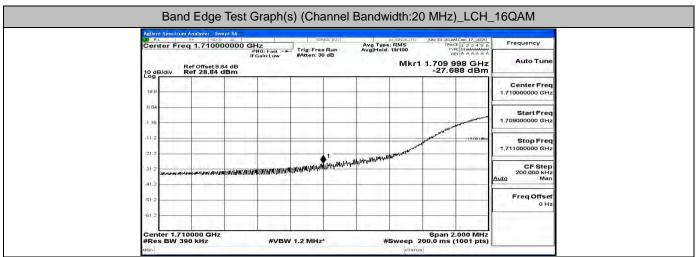


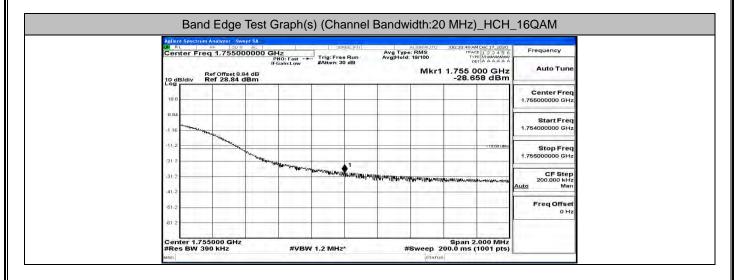








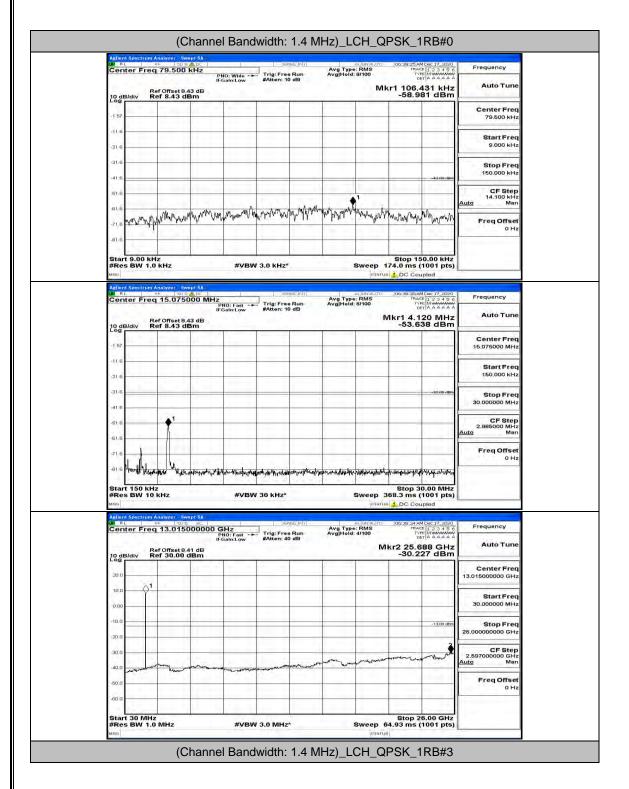




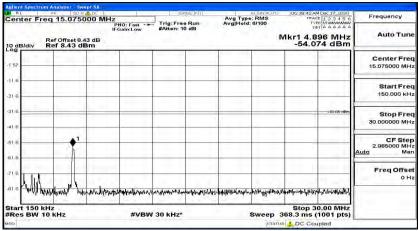
## **G.5 Conducted Spurious Emission**

## **Test Graphs**

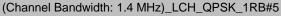
**Channel Bandwidth: 1.4 MHz** 

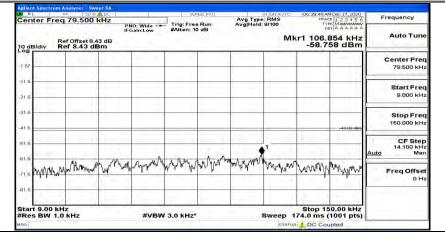


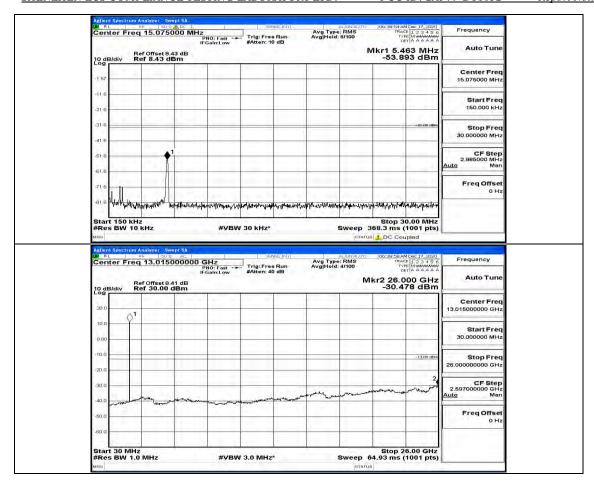


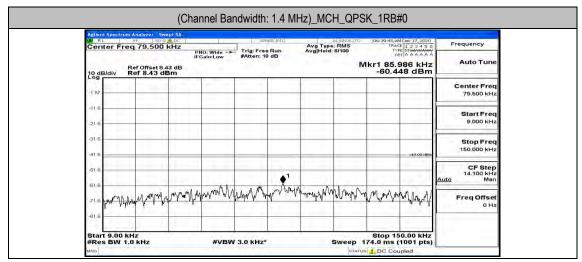








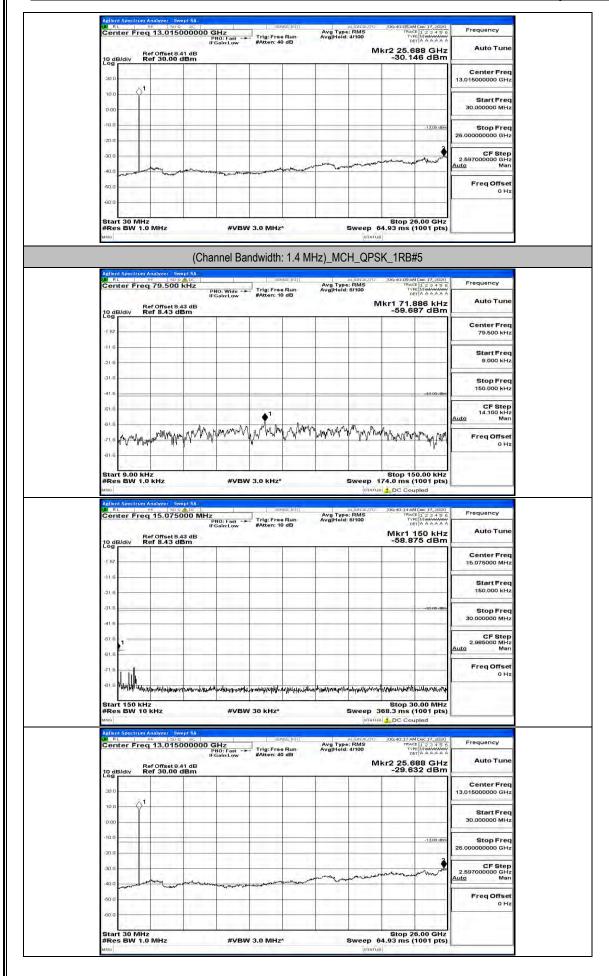


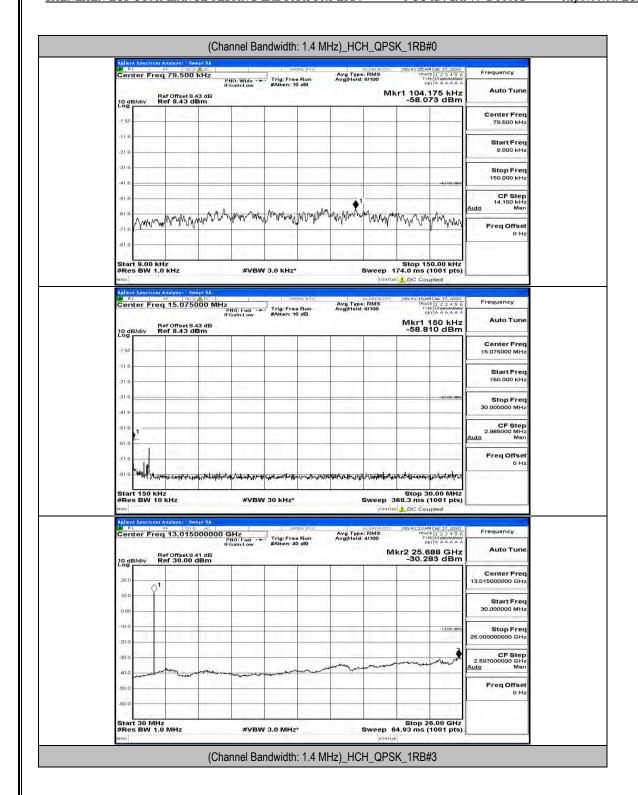


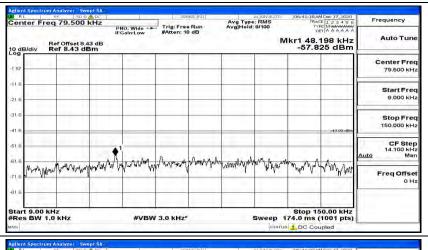
Stop 30.00 MHz Sweep 368.3 ms (1001 pts)

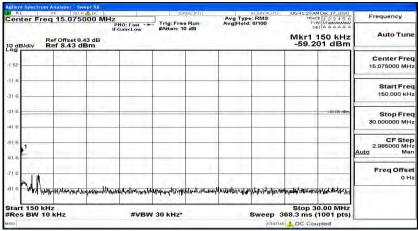
#VBW 30 kHz\*

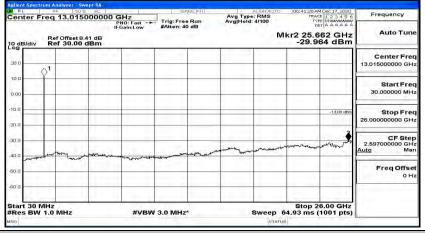
Start 150 kHz #Res BW 10 kHz

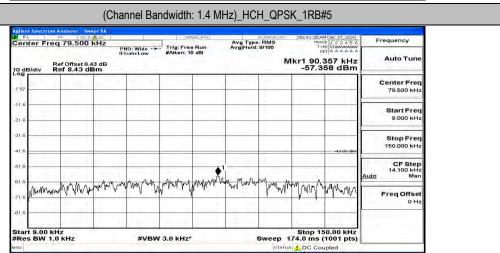


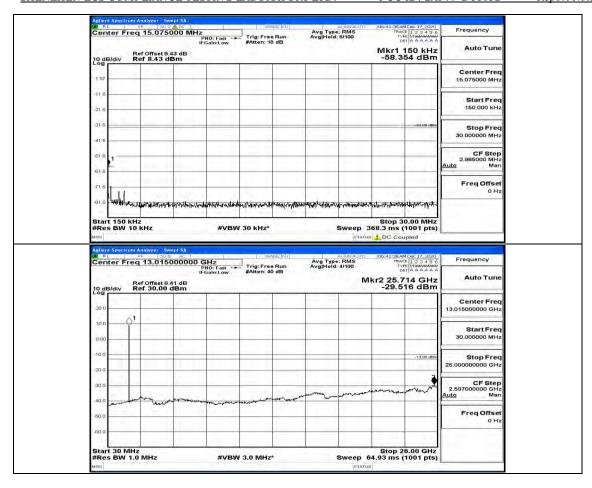


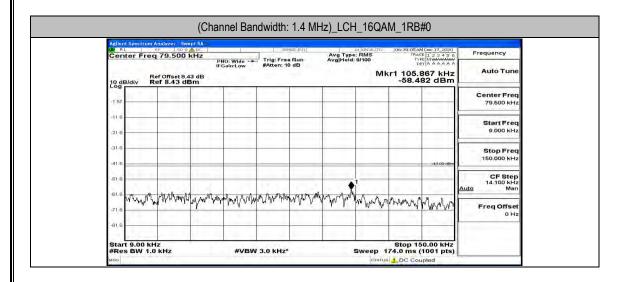










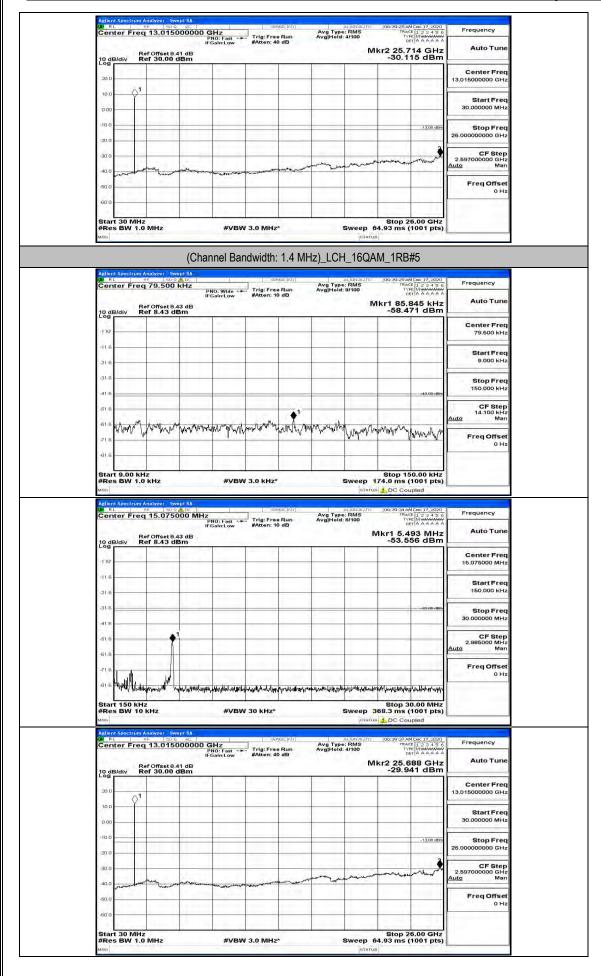


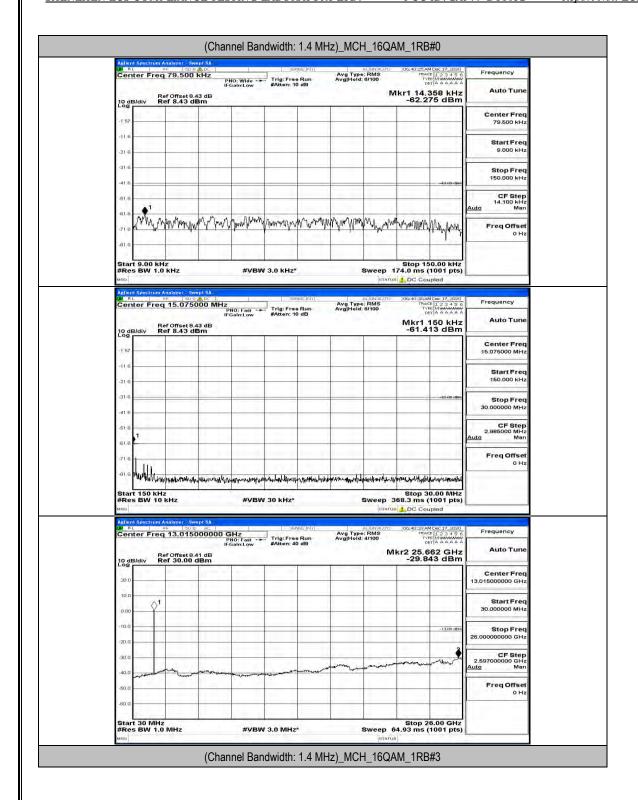
Stop 30.00 MHz Sweep 368.3 ms (1001 pts)

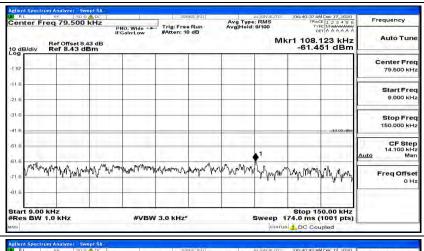
year allowed with the contraction of the contractio

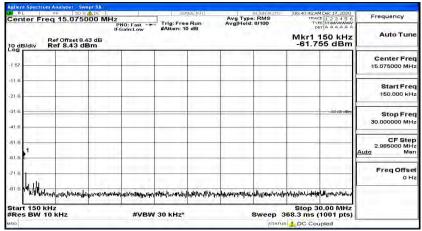
#VBW 30 kHz\*

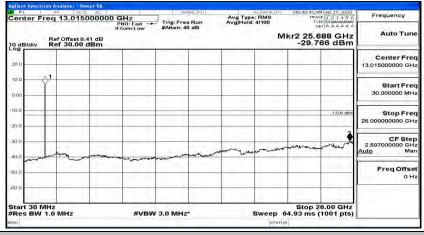
Start 150 kHz #Res BW 10 kHz

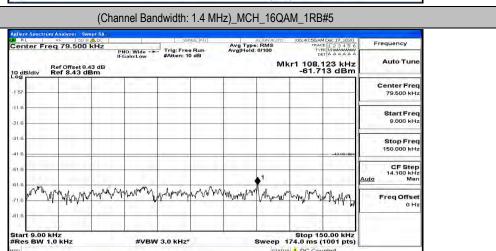


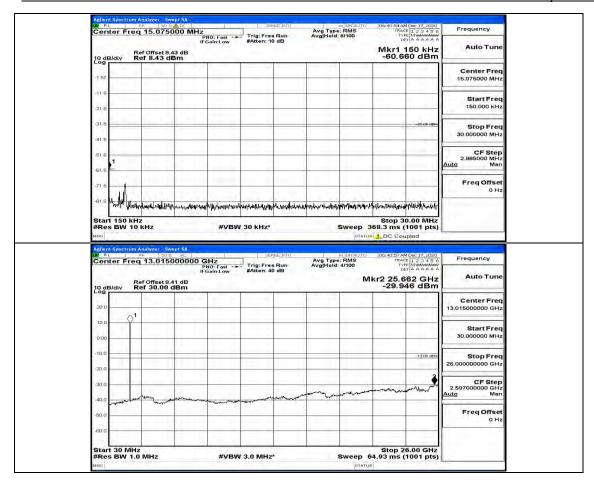


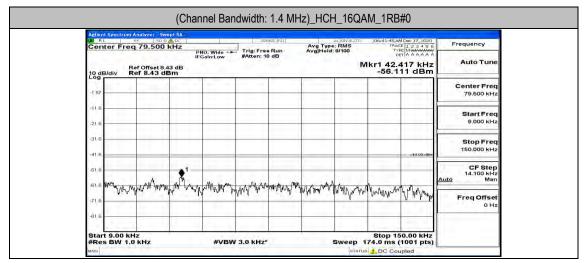












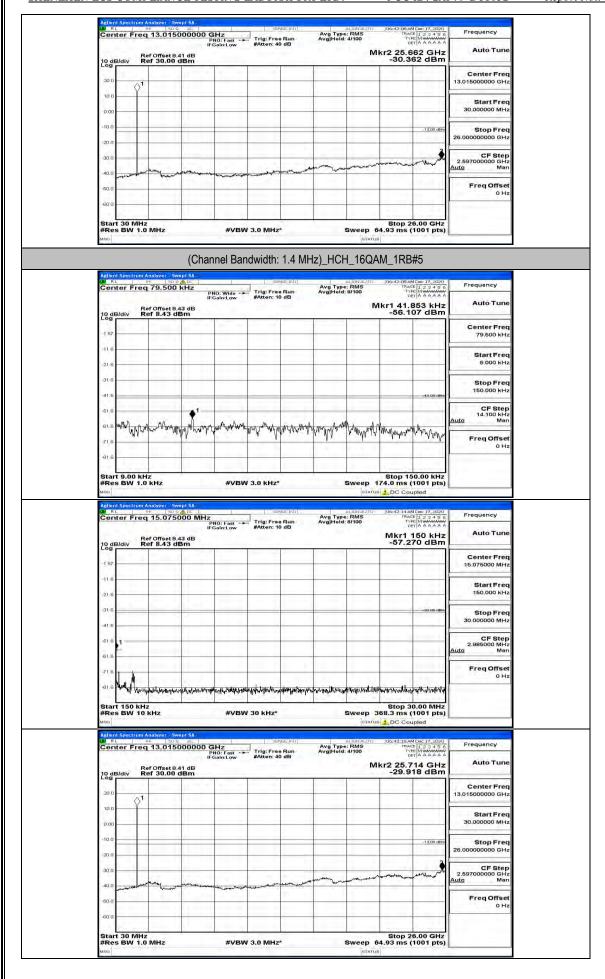
Stop 30.00 MHz Sweep 368.3 ms (1001 pts)

والبعرارة والمستورب والمراصور والمستود والمستود

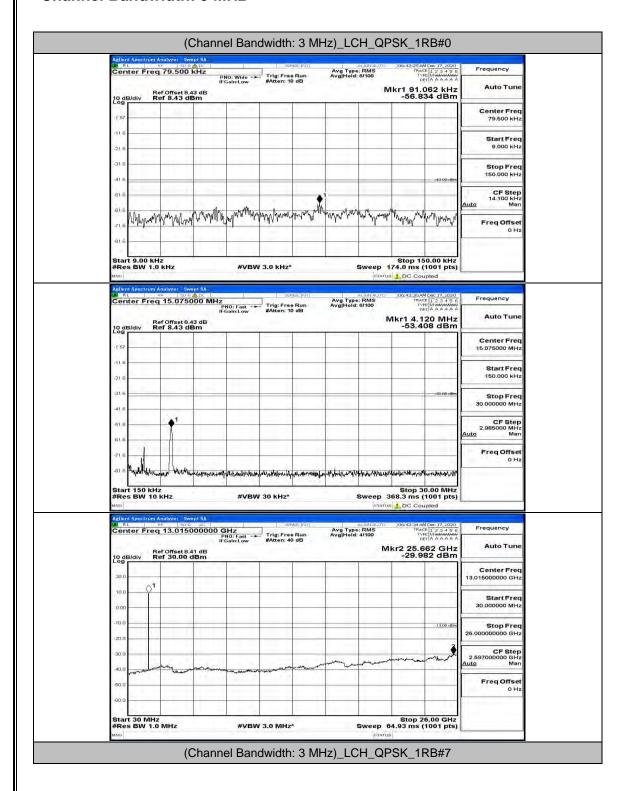
which the armount de bis supering the supering the

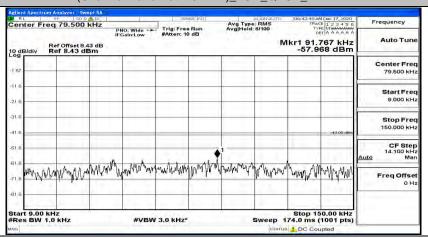
#VBW 30 kHz\*

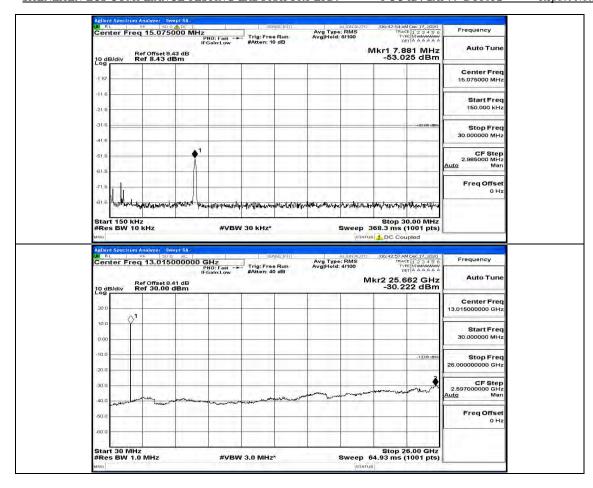
Start 150 kHz #Res BW 10 kHz

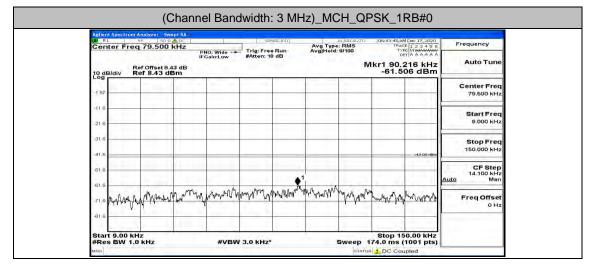


## **Channel Bandwidth: 3 MHz**



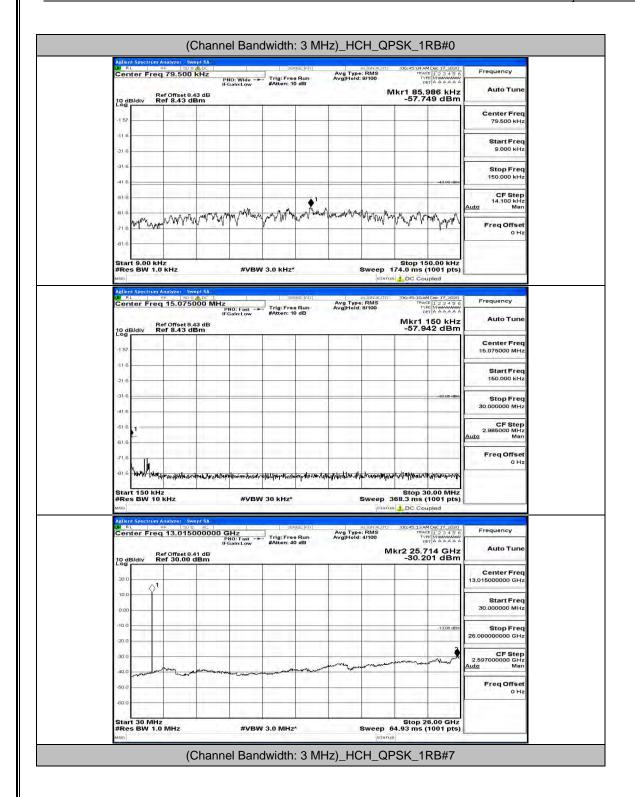


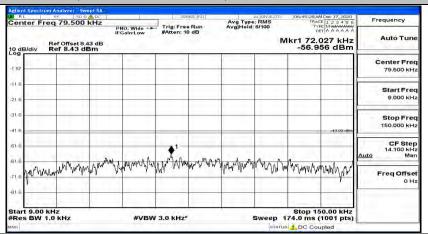


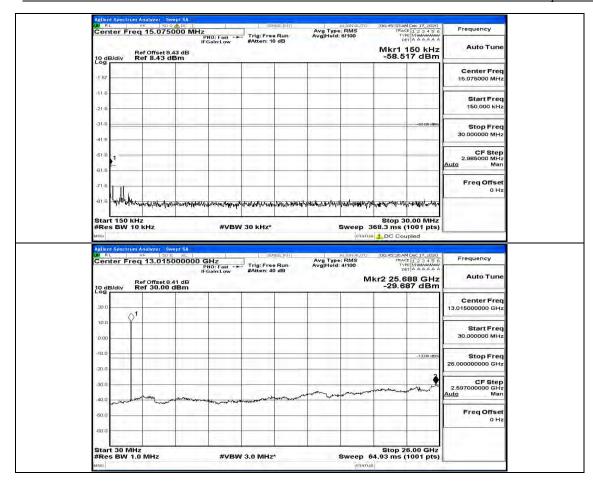


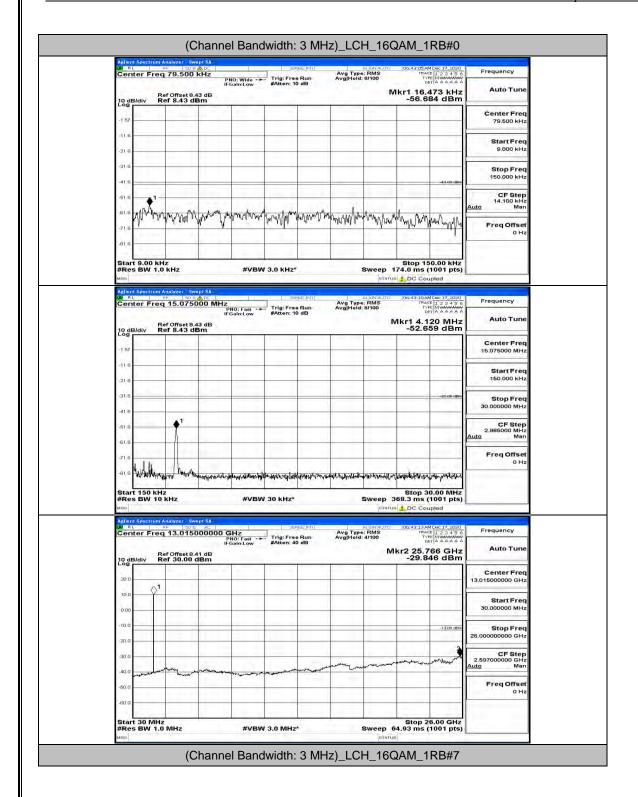
Stop 26.00 GHz Sweep 64.93 ms (1001 pts)

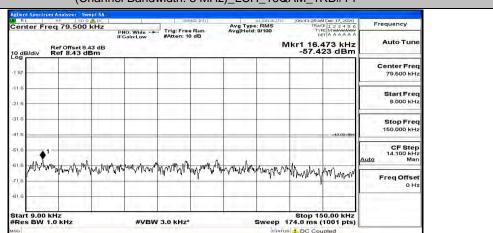
Start 30 MHz #Res BW 1.0 MHz

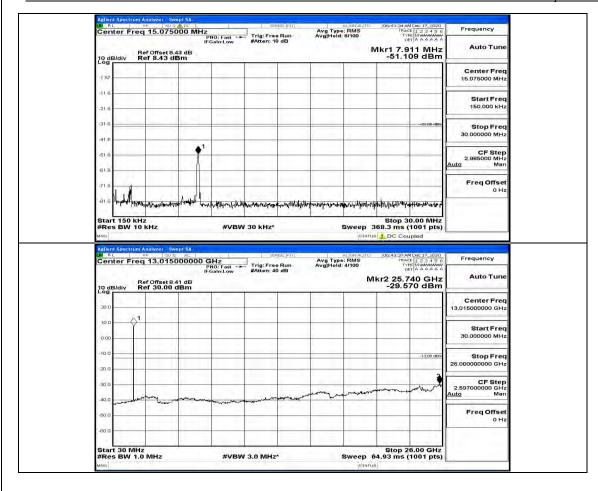


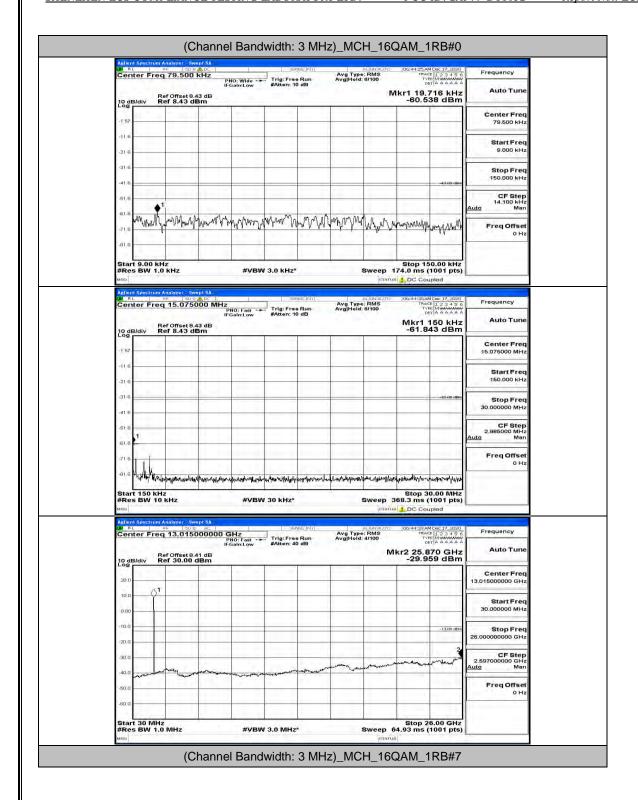


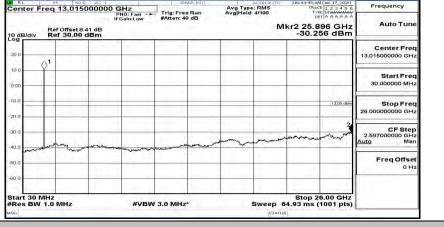


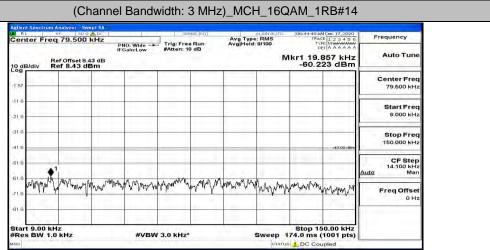


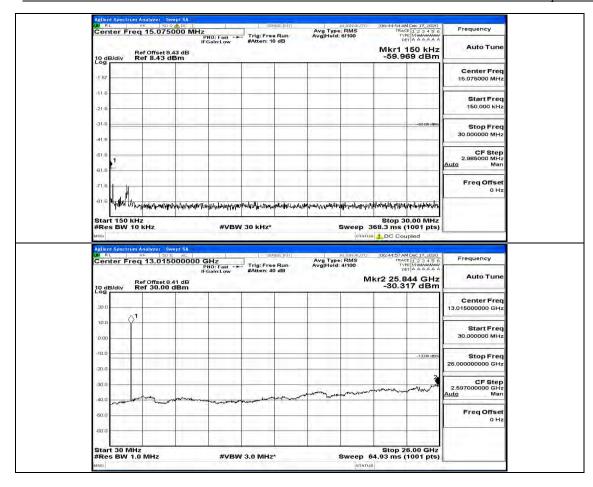


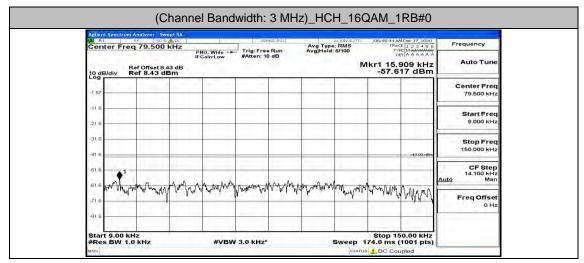












FCC ID: 2AP79-DT1052

Report No.: LCS201210158AEI

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.

Stop 26.00 GHz Sweep 64.93 ms (1001 pts)

Start 30 MHz #Res BW 1.0 MHz

#VBW 3.0 MHz\*

## **Channel Bandwidth: 5 MHz**

