Appendix C: Test Data for E-UTRA Band 4

Product Name: Stackable multifunction charging station Trade Mark: / **Test Model: SD-C9**

Environmental Conditions

Temperature:	22.3° C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

C.1 Conducted Output Power

On Cona	Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)							
Modulation	Channel	RB Conf	figuration	Average Power [dBm]	Average Power [dBm]	Verdict		
Modulation	Channel	Size	Offset	QPSK	16QAM	verdict		
		1	0	22.31	21.44	PASS		
		1	3	22.39	21.47	PASS		
		1	5	22.36	21.60	PASS		
	LCH	3	0	22.45	21.04	PASS		
		3	2	22.50	21.03	PASS		
		3	3	22.48	20.90	PASS		
		6	0	21.14	20.29	PASS		
		1	0	22.77	21.82	PASS		
		1	3	22.68	21.77	PASS		
QPSK /		1	5	22.86	21.32	PASS		
16QAM	MCH	3	0	22.81	21.75	PASS		
TOQAM		3	2	22.80	21.75	PASS		
		3	3	22.71	21.46	PASS		
		6	0	21.81	20.91	PASS		
		1	0	22.21	21.47	PASS		
		1	3	22.34	21.57	PASS		
		1	5	22.43	21.50	PASS		
	HCH	3	0	22.50	21.16	PASS		
		3	2	22.49	21.16	PASS		
		3	3	22.32	21.18	PASS		
		6	0	21.39	20.55	PASS		

	Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)								
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict			
Woddiation	Orianino	Size	Offset	QPSK	16QAM	Verdict			
		1	0	22.45	21.10	PASS			
		1	7	22.07	21.01	PASS			
		1	14	21.62	21.50	PASS			
	LCH	8	0	21.43	20.50	PASS			
		8	4	21.41	20.51	PASS			
		8	7	21.27	20.12	PASS			
		15	0	21.37	20.53	PASS			
		1	0	22.90	22.10	PASS			
	мсн	1	7	22.77	21.92	PASS			
QPSK /		1	14	22.80	21.53	PASS			
16QAM		8	0	21.87	21.10	PASS			
TOQAIVI		8	4	21.88	21.07	PASS			
		8	7	21.81	20.74	PASS			
		15	0	21.89	20.86	PASS			
		1	0	22.61	21.61	PASS			
		1	7	22.76	21.89	PASS			
		1	14	22.77	22.02	PASS			
	HCH	8	0	21.41	20.48	PASS			
		8	4	21.40	20.48	PASS			
		8	7	21.59	20.61	PASS			
		15	0	21.46	20.50	PASS			

	Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)								
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Vardiet			
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict			
		1	0	22.09	21.07	PASS			
		1	12	21.52	20.57	PASS			
		1	24	20.84	19.90	PASS			
	LCH	12	0	21.42	20.35	PASS			
		12	6	21.41	20.36	PASS			
		12	13	20.92	20.09	PASS			
		25	0	21.12	20.21	PASS			
		1	0	22.77	21.55	PASS			
	МСН	1	12	22.72	21.45	PASS			
ODCK /		1	24	22.76	21.55	PASS			
QPSK / 16QAM		12	0	21.83	20.90	PASS			
TOQAIVI		12	6	21.83	20.81	PASS			
		12	13	21.67	20.68	PASS			
		25	0	21.81	20.82	PASS			
		1	0	22.61	21.55	PASS			
		1	12	22.83	21.66	PASS			
		1	24	22.57	21.58	PASS			
	HCH	12	0	21.52	20.67	PASS			
		12	6	21.51	20.67	PASS			
		12	13	21.57	20.74	PASS			
	_	25	0	21.52	20.62	PASS			

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)								
Modulation	Channel	RB Con Size	figuration Offset	Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict		
		1	0	21.35	20.55	PASS		
		1	24	21.01	20.26	PASS		
		1	49	20.18	19.42	PASS		
	LCH	25	0	21.07	20.14	PASS		
		25	12	21.05	20.12	PASS		
		25	25	20.49	19.54	PASS		
		50	0	20.70	19.82	PASS		
	МСН	1	0	22.64	22.07	PASS		
		1	24	22.79	21.81	PASS		
QPSK /		1	49	22.54	21.50	PASS		
16QAM		25	0	21.82	21.05	PASS		
IOQAW		25	12	21.82	20.87	PASS		
		25	25	21.77	20.80	PASS		
		50	0	21.82	20.86	PASS		
		1	0	22.85	21.92	PASS		
		1	24	23.12	22.19	PASS		
		1	49	22.35	21.33	PASS		
	HCH	25	0	21.86	20.85	PASS		
		25	12	21.86	21.02	PASS		
		25	25	21.59	20.75	PASS		
		50	0	21.68	20.74	PASS		

	Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)								
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict			
Modulation	Chamilei	Size	Offset	QPSK	16QAM	verdict			
		1	0	20.95	20.19	PASS			
		1	37	20.67	19.92	PASS			
		1	74	21.89	21.19	PASS			
	LCH	37	0	20.76	20.75	PASS			
		37	18	20.76	20.72	PASS			
		37	38	20.76	20.70	PASS			
		75	0	20.68	19.81	PASS			
		1	0	22.57	21.55	PASS			
	MCH	1	37	23.38	22.51	PASS			
QPSK /		1	74	22.48	21.49	PASS			
16QAM		37	0	21.76	21.82	PASS			
TOQAW		37	18	21.75	21.67	PASS			
		37	38	21.83	21.72	PASS			
		75	0	21.76	20.84	PASS			
		1	0	22.95	21.87	PASS			
		1	37	23.35	22.43	PASS			
		1	74	22.22	21.18	PASS			
	HCH	37	0	21.88	21.84	PASS			
		37	18	21.87	21.84	PASS			
		37	38	21.86	21.83	PASS			
		75	0	21.90	20.83	PASS			

	Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)								
Modulation	Channel	RB Conf	figuration	Average Power [dBm]	Average Power [dBm]	Verdict			
Wodulation	Charmer	Size	Offset	QPSK	16QAM	verdict			
		1	0	21.62	21.09	PASS			
		1	49	21.17	21.25	PASS			
		1	99	22.98	22.07	PASS			
	LCH	50	0	20.30	19.41	PASS			
		50	25	20.29	19.39	PASS			
		50	50	22.05	21.07	PASS			
		100	0	21.39	20.51	PASS			
		1	0	22.39	21.48	PASS			
	МСН	1	49	23.55	22.66	PASS			
ODOK /		1	99	22.55	21.64	PASS			
QPSK / 16QAM		50	0	21.75	20.85	PASS			
TOQAIVI		50	25	21.75	20.86	PASS			
		50	50	21.79	20.87	PASS			
		100	0	21.93	20.93	PASS			
		1	0	22.09	21.36	PASS			
		1	49	23.61	22.90	PASS			
		1	99	22.82	21.11	PASS			
	HCH	50	0	22.08	21.11	PASS			
		50	25	22.07	21.02	PASS			
		50	50	21.86	20.88	PASS			
	_	100	0	22.03	20.97	PASS			

C.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	Grianner	[dB]	[dB]	verdict				
	LCH	4.97	<13	PASS				
QPSK	MCH	5.13	<13	PASS				
	HCH	5.17	<13	PASS				
	LCH	5.83	<13	PASS				
16QAM	MCH	5.95	<13	PASS				
	HCH	6.04	<13	PASS				

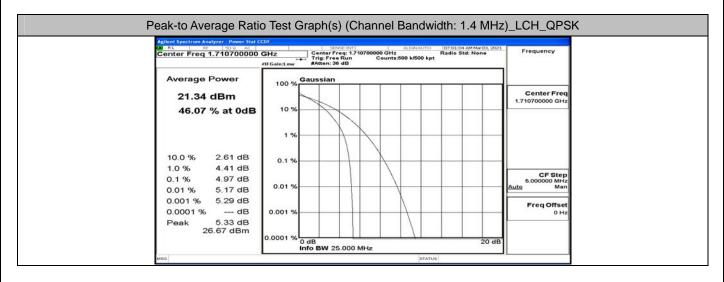
	Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict			
Modulation	Channel	[dB]	[dB]	verdict			
	LCH	5.15	<13	PASS			
QPSK	MCH	5.21	<13	PASS			
	HCH	5.29	<13	PASS			
	LCH	6.02	<13	PASS			
16QAM	MCH	6.03	<13	PASS			
	HCH	6.07	<13	PASS			

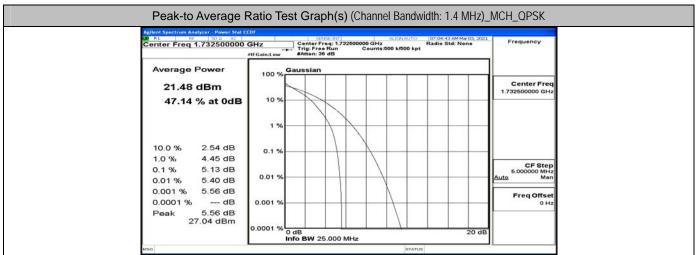
	Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict			
IVIOGUIATIOTI	Grianner	[dB]	[dB]	verdict			
	LCH	5.24	<13	PASS			
QPSK	MCH	5.17	<13	PASS			
	HCH	5.29	<13	PASS			
	LCH	6	<13	PASS			
16QAM	MCH	5.94	<13	PASS			
	HCH	6.07	<13	PASS			

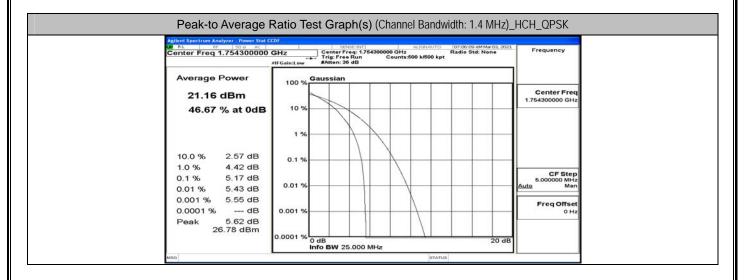
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
Modulation	Chame	[dB]	[dB]	verdict		
QPSK	LCH	7.17	<13	PASS		
	MCH	5.15	<13	PASS		
	HCH	5.21	<13	PASS		
16QAM	LCH	6.22	<13	PASS		
	MCH	5.94	<13	PASS		
	HCH	6.01	<13	PASS		

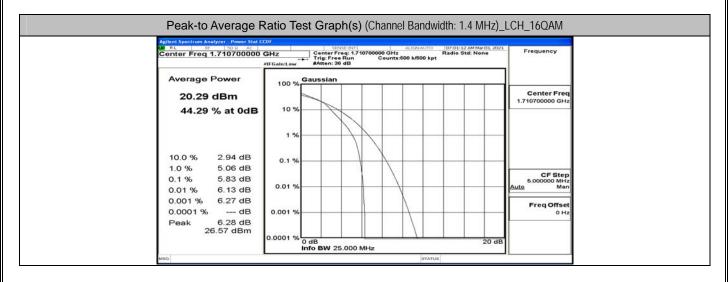
	Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict				
Wiodulation	Charmer	[dB]	[dB]	verdict				
	LCH	6.01	<13	PASS				
QPSK	MCH	5.25	<13	PASS				
	HCH	5.32	<13	PASS				
	LCH	6.29	<13	PASS				
16QAM	MCH	5.94	<13	PASS				
	HCH	6	<13	PASS				

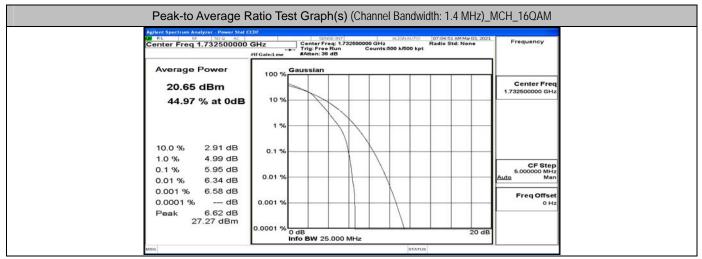
Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict
Modulation		[dB]	[dB]	
QPSK	LCH	5.34	<13	PASS
	MCH	5.1	<13	PASS
	HCH	5.07	<13	PASS
16QAM	LCH	6.12	<13	PASS
	MCH	5.92	<13	PASS
	HCH	5.87	<13	PASS

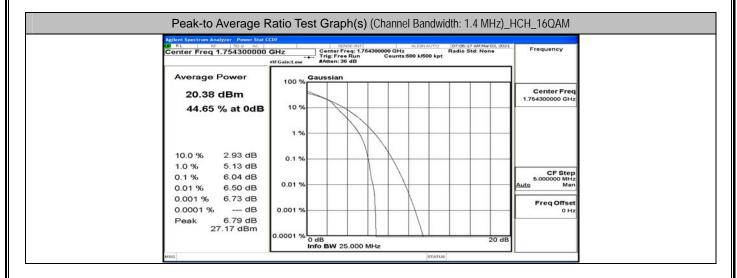


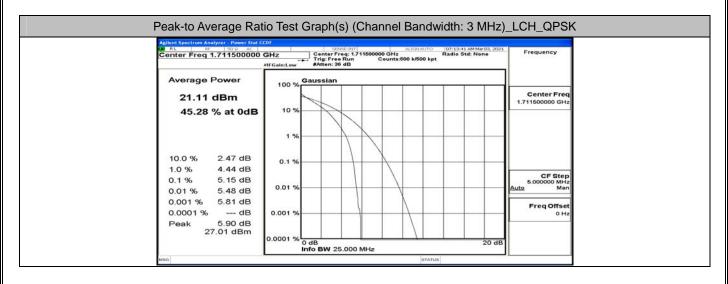


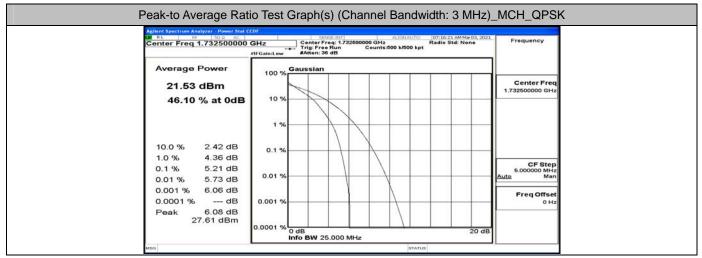


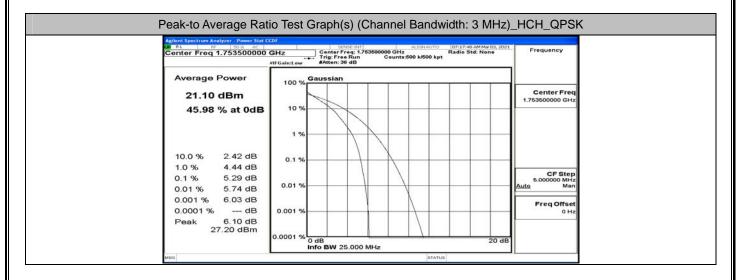


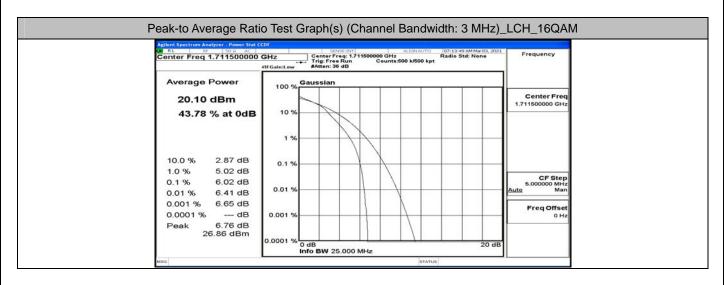


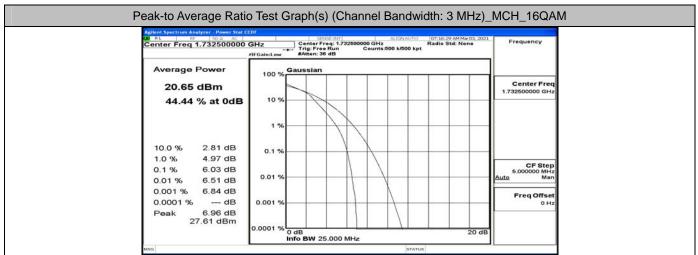


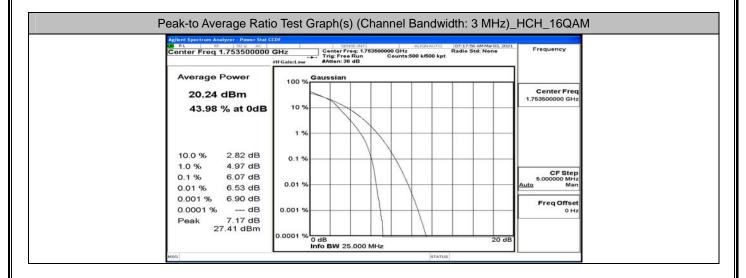


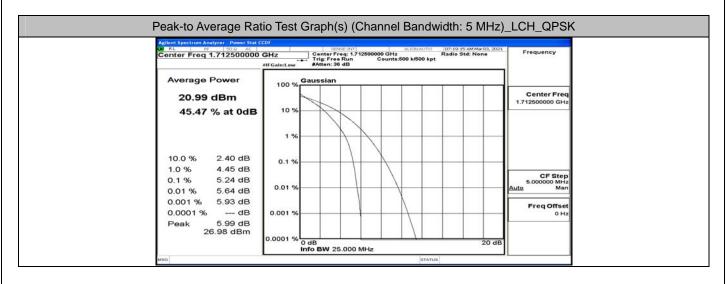


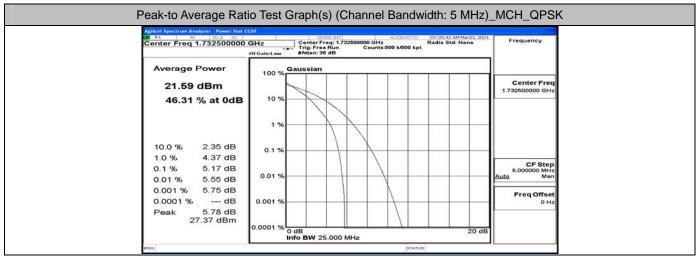


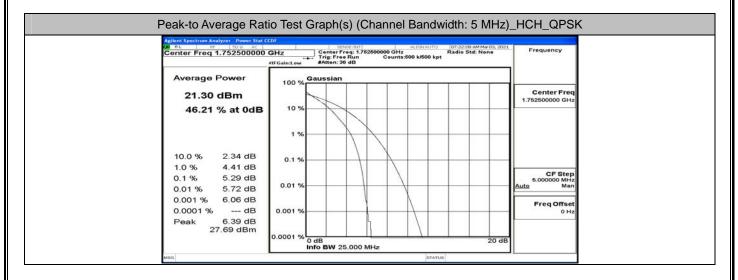


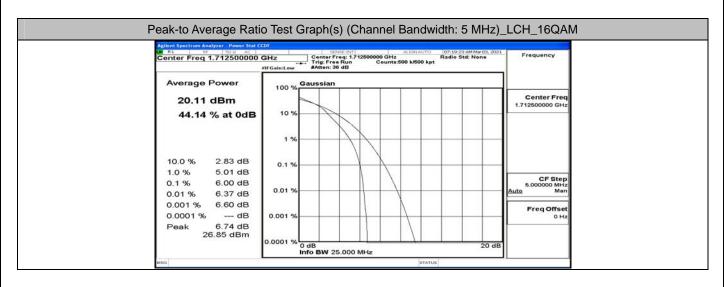


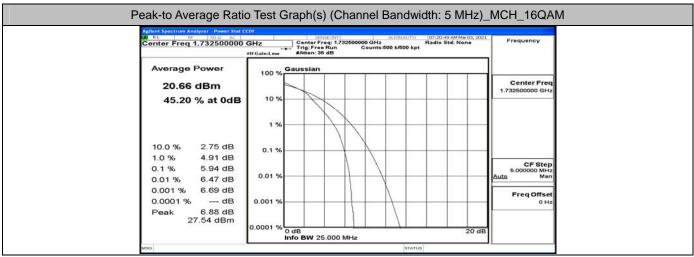


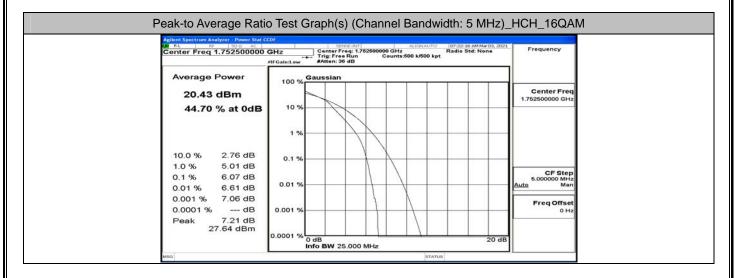




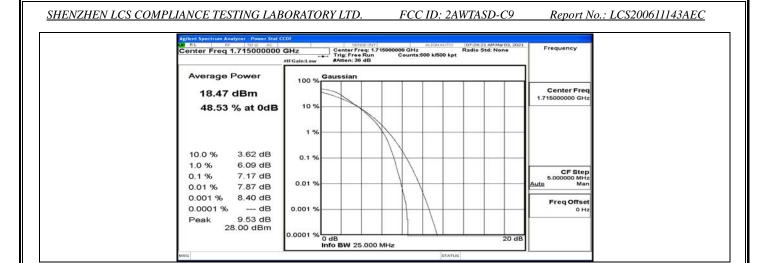


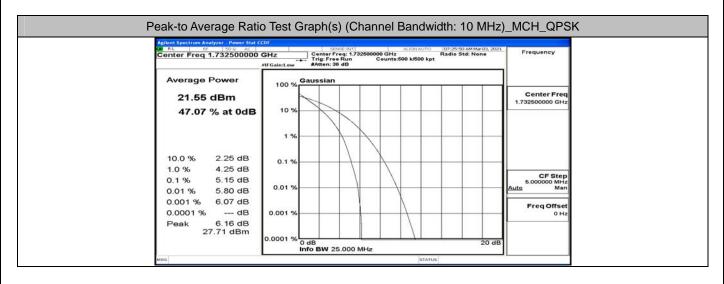


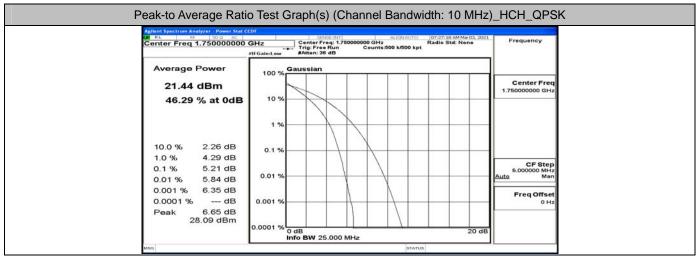


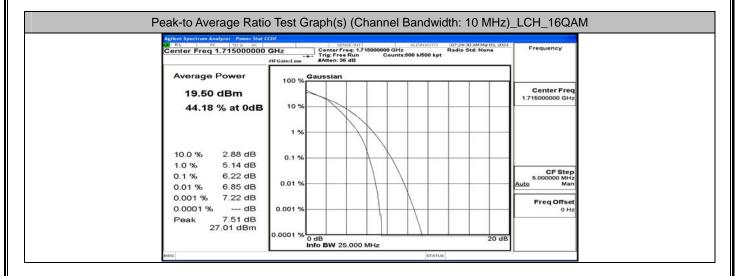


Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK

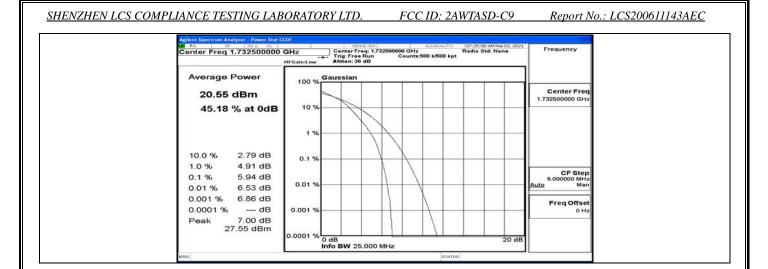


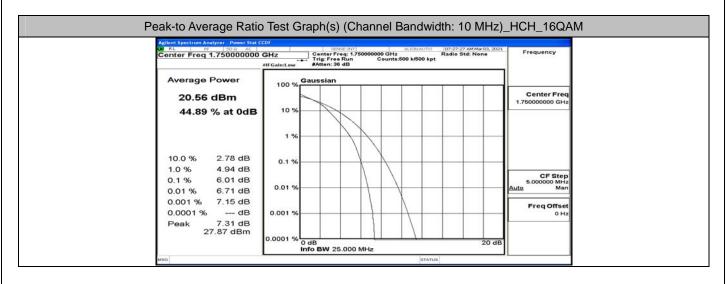


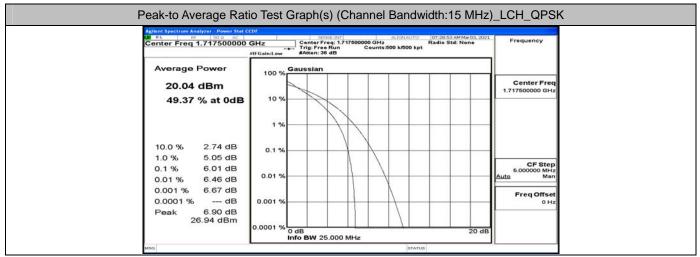


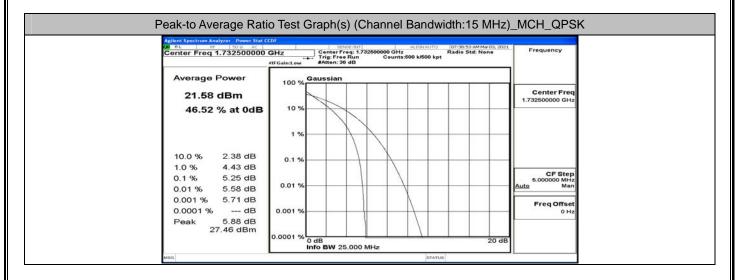


Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM

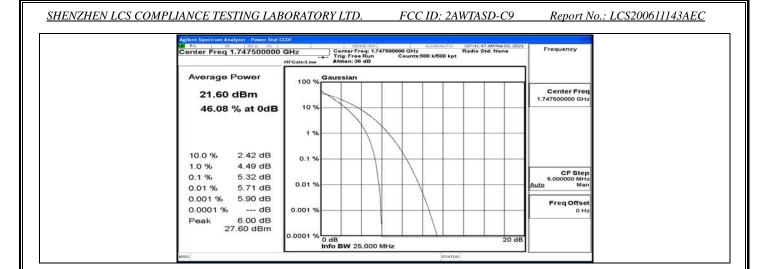


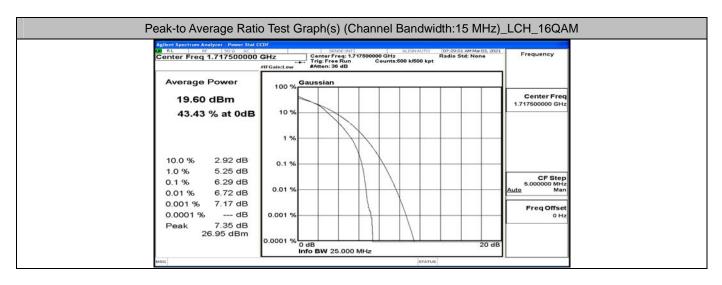


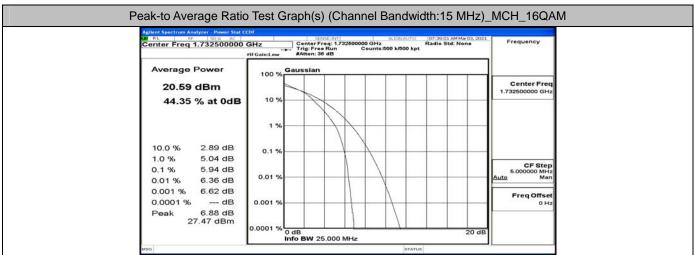


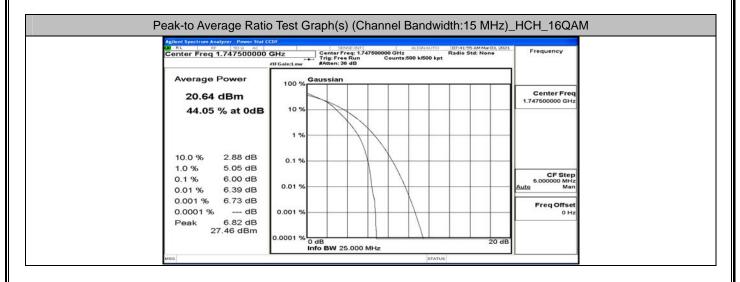


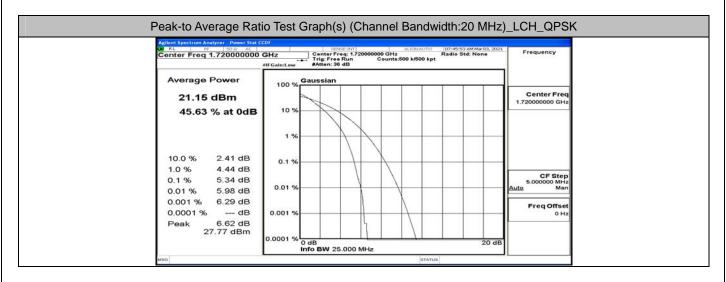
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK

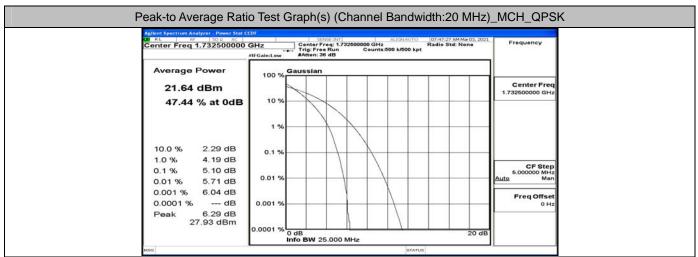


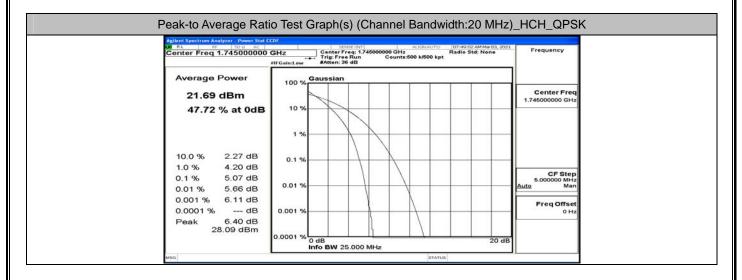


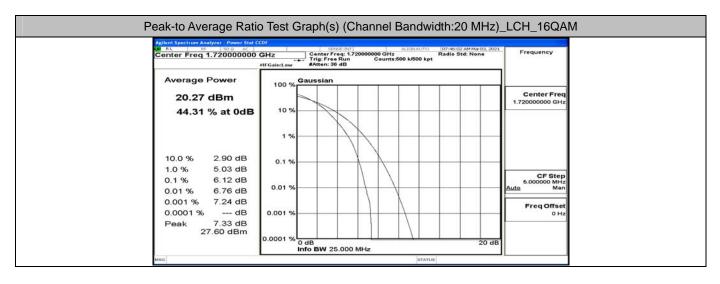


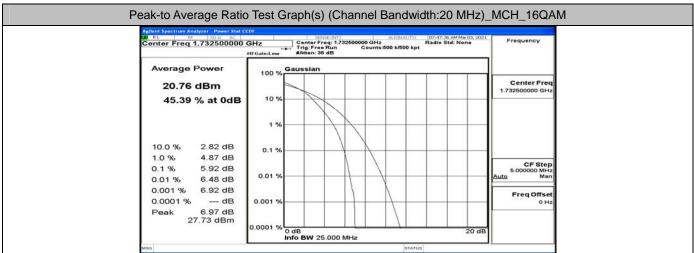


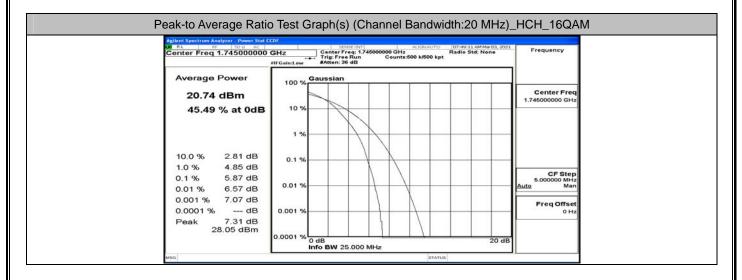












C.3 26dB Bandwidth and Occupied Bandwidth

EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Wiodulation		(MHz)	(MHz)	
QPSK	LCH	1.0780	1.237	PASS
	MCH	1.0752	1.238	PASS
	HCH	1.0781	1.241	PASS
16QAM	LCH	1.0760	1.220	PASS
	MCH	1.0799	1.238	PASS
	HCH	1.0760	1.219	PASS

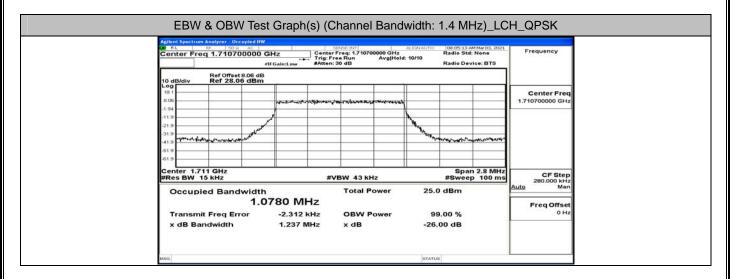
EBW & OBW Test Result (Channel Bandwidth: 3 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation		(MHz)	(MHz)		
QPSK	LCH	2.6878	2.875	PASS	
	MCH	2.6866	2.900	PASS	
	HCH	2.6824	2.875	PASS	
16QAM	LCH	2.6810	2.893	PASS	
	MCH	2.6828	2.881	PASS	
	HCH	2.6840	2.891	PASS	

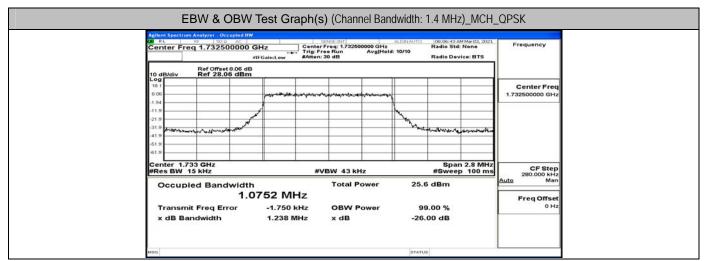
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
IVIOGUIATIOTI		(MHz)	(MHz)		
QPSK	LCH	4.4693	4.800	PASS	
	MCH	4.4714	4.791	PASS	
	HCH	4.4694	4.837	PASS	
16QAM	LCH	4.4712	4.839	PASS	
	MCH	4.4812	4.829	PASS	
	HCH	4.4827	4.809	PASS	

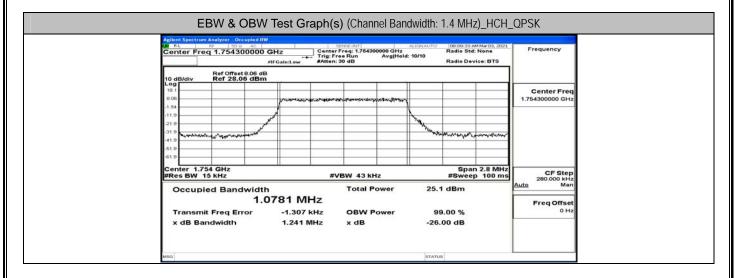
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
iviodulation		(MHz)	(MHz)		
QPSK	LCH	8.9430	9.460	PASS	
	MCH	8.9078	9.370	PASS	
	HCH	8.9352	9.454	PASS	
16QAM	LCH	8.9312	9.405	PASS	
	MCH	8.9272	9.450	PASS	
	HCH	8.9182	9.425	PASS	

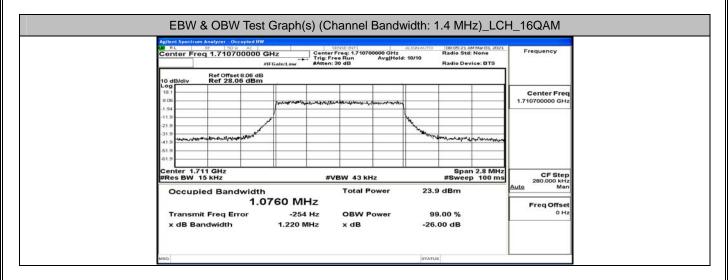
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	
QPSK	LCH	13.419	14.17	PASS
	MCH	13.357	14.03	PASS
	HCH	13.374	14.03	PASS
16QAM	LCH	13.417	14.09	PASS
	MCH	13.358	14.01	PASS
	HCH	13.373	13.98	PASS

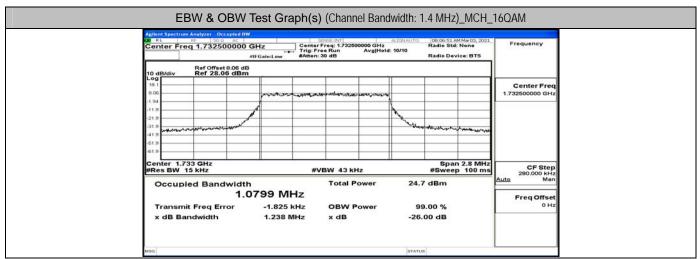
EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Mandadatian	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	
QPSK	LCH	17.873	18.55	PASS
	MCH	17.789	18.51	PASS
	HCH	17.799	18.56	PASS
16QAM	LCH	17.856	18.57	PASS
	MCH	17.764	18.50	PASS
	HCH	17.804	18.54	PASS

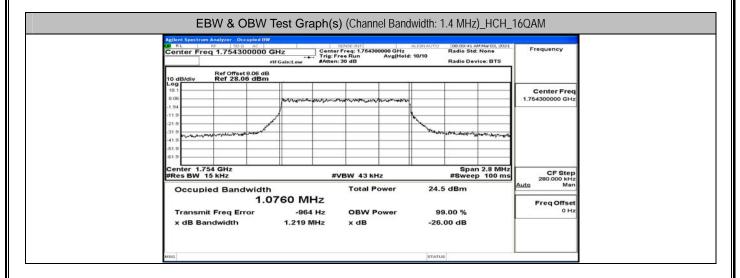


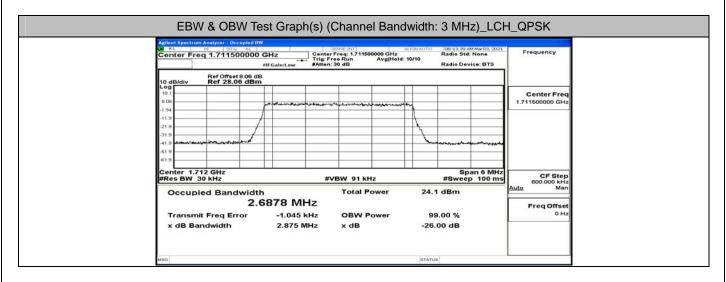


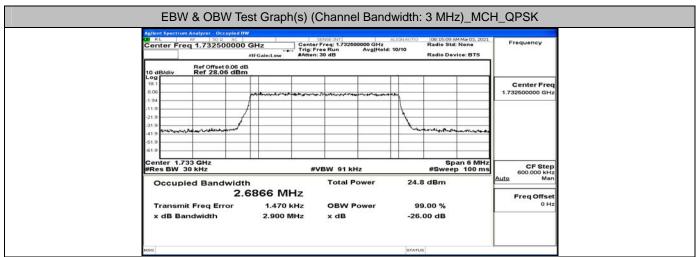


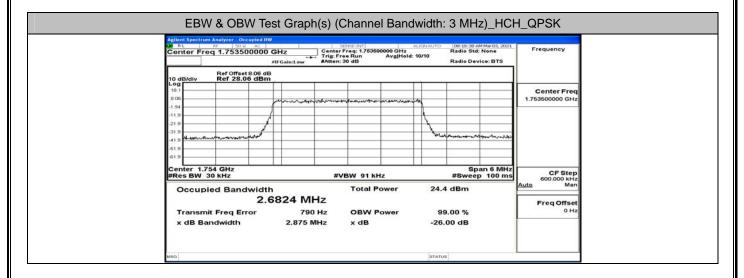


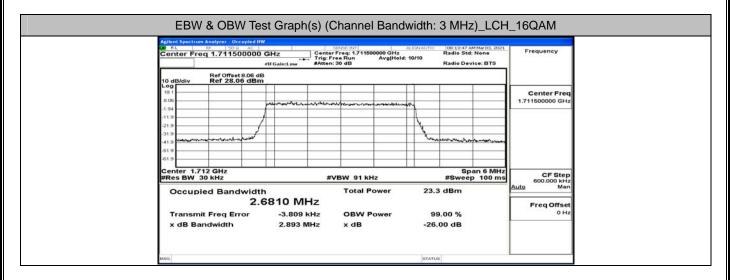


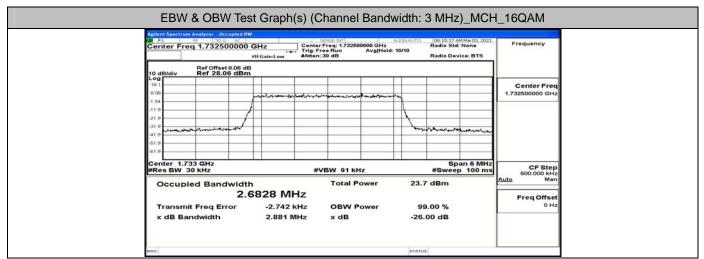


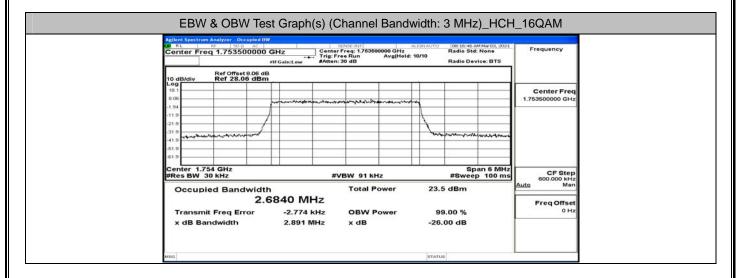


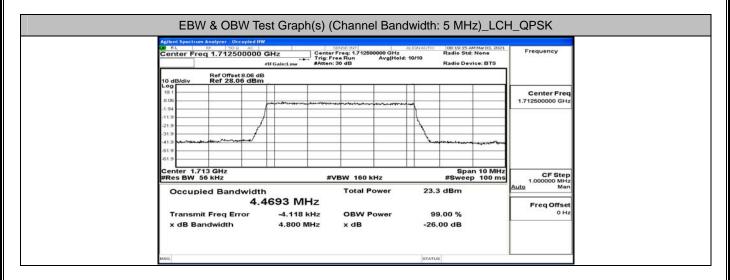


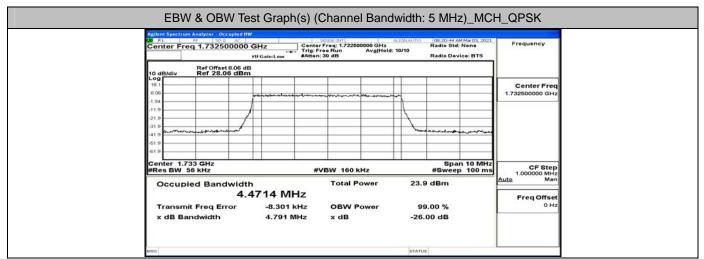


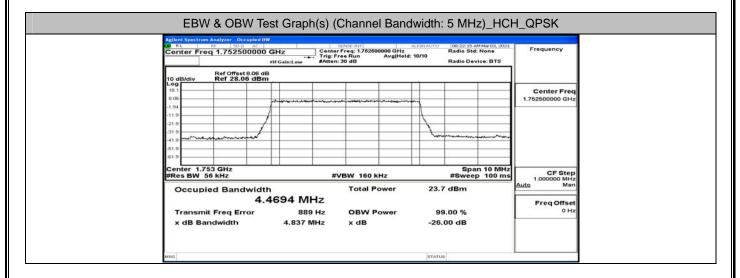


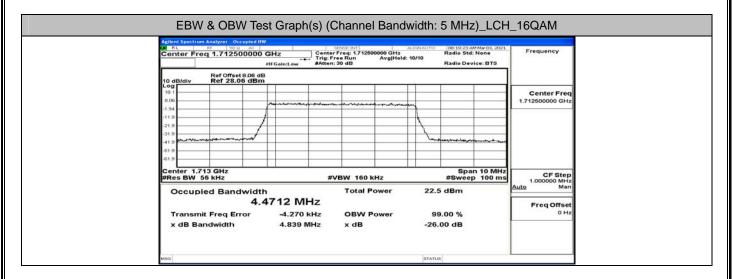


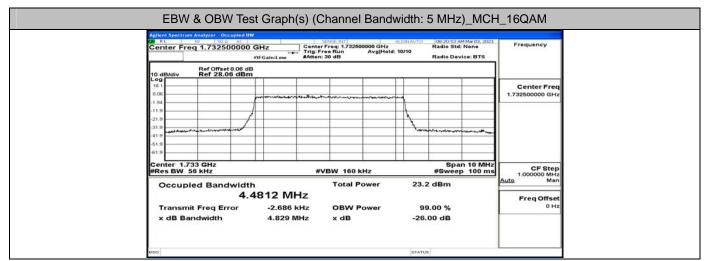


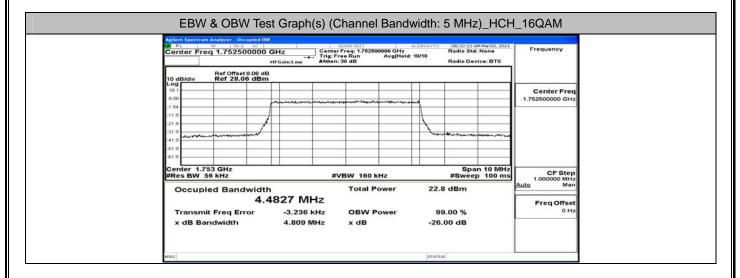


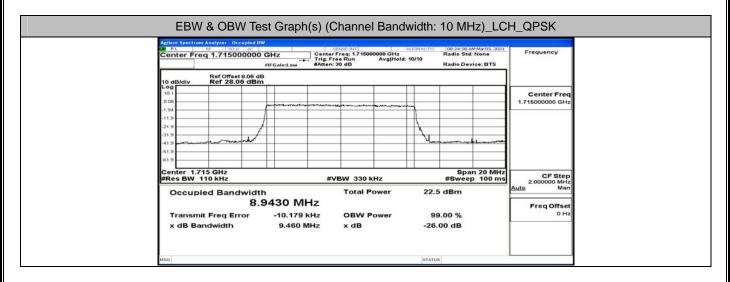


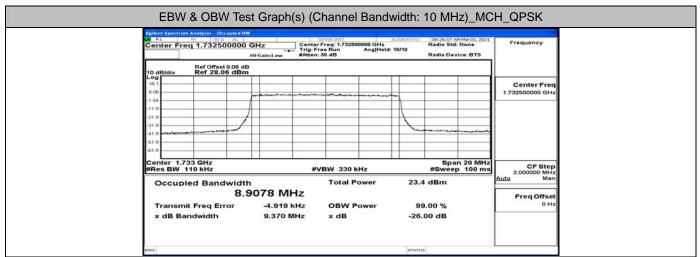


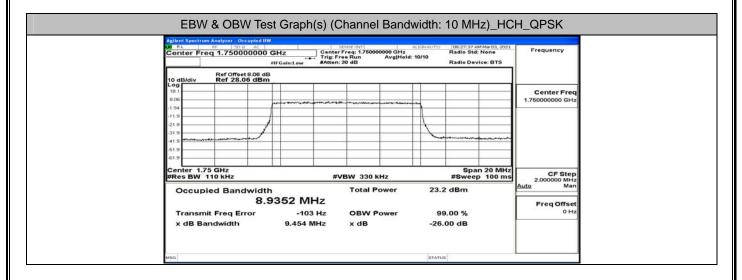


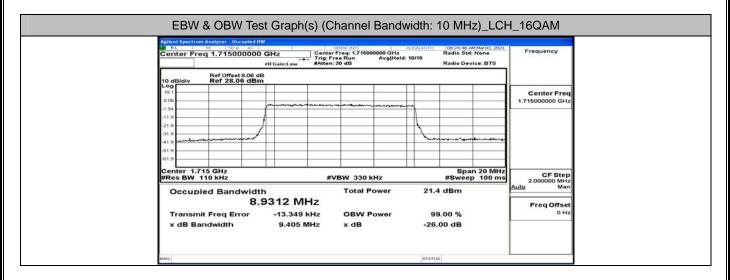


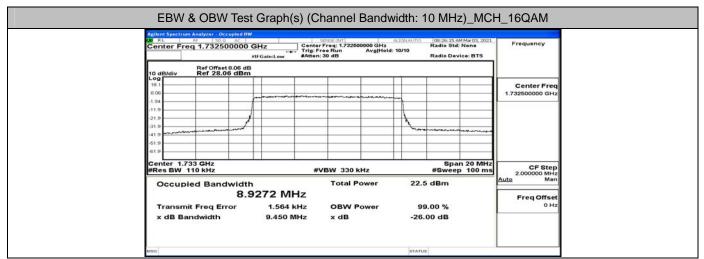


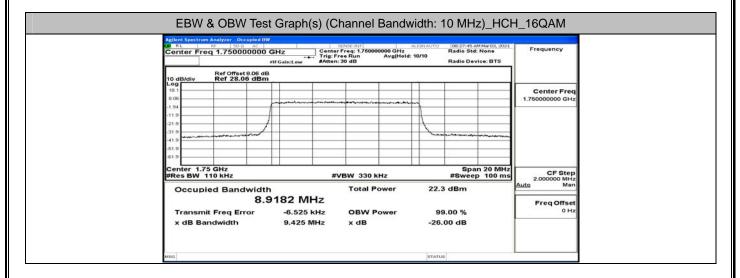


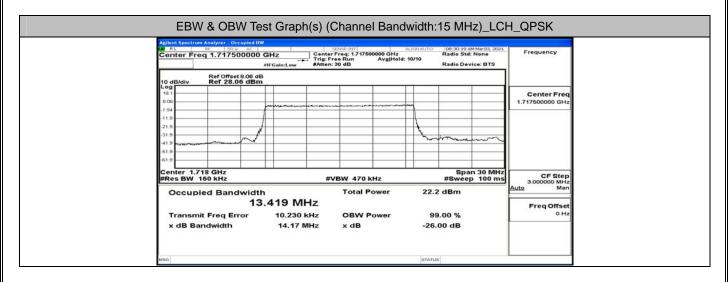


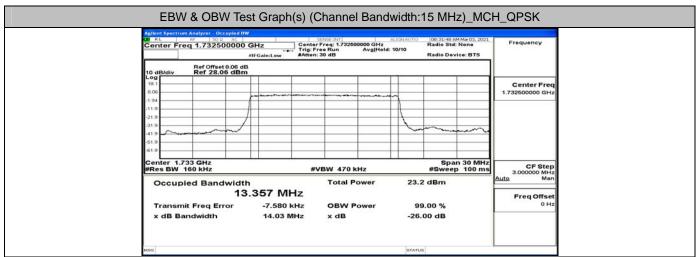


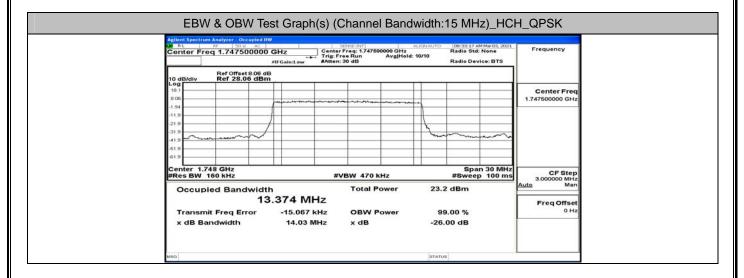


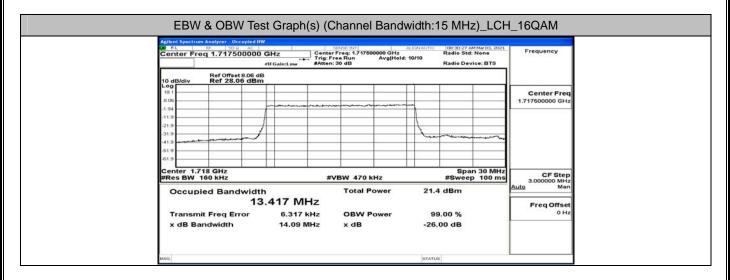


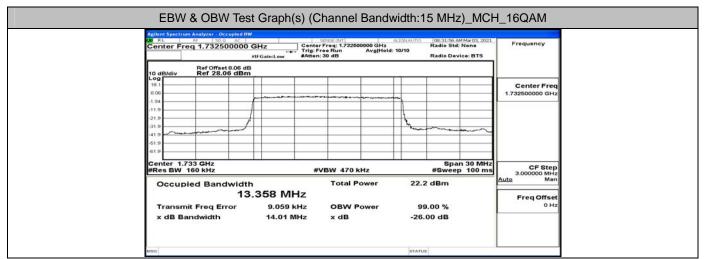


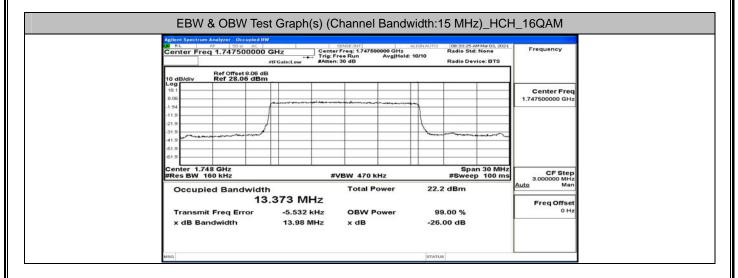


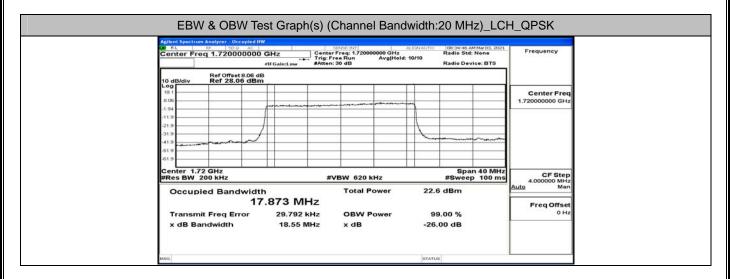


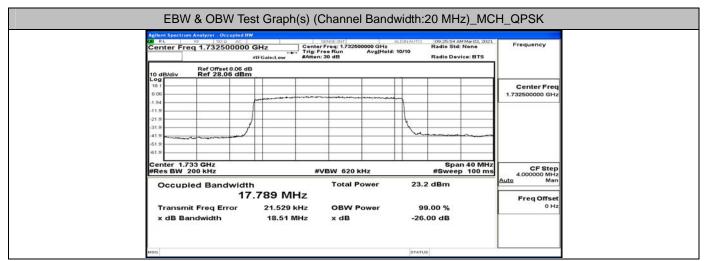


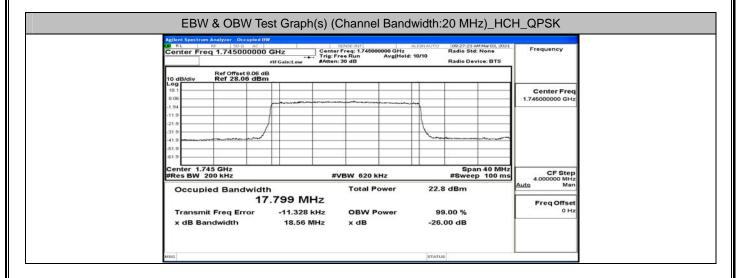


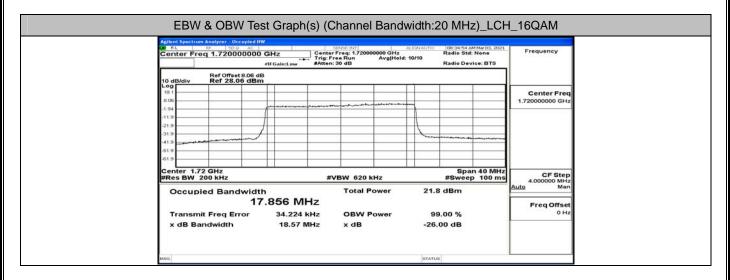


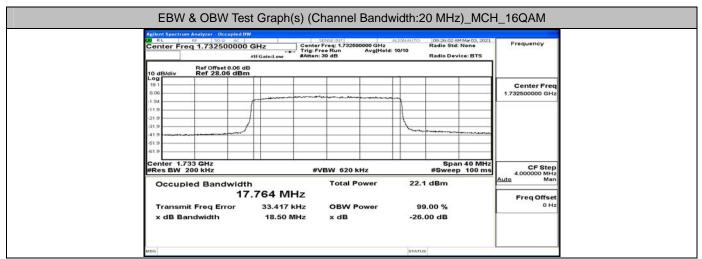


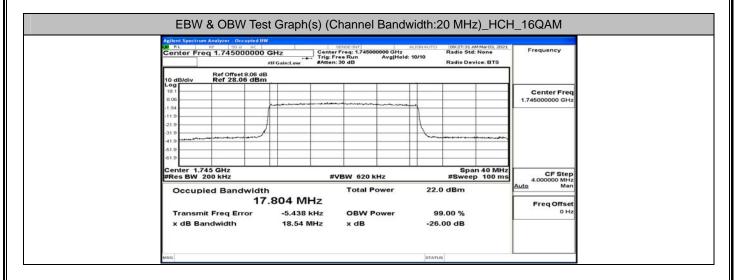




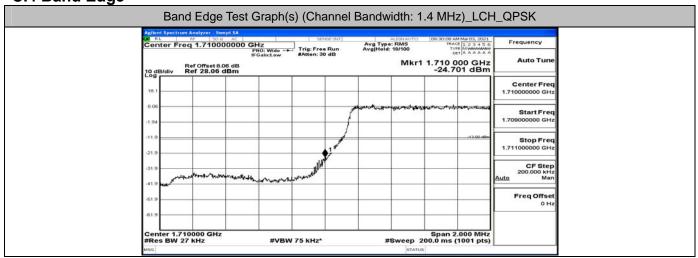


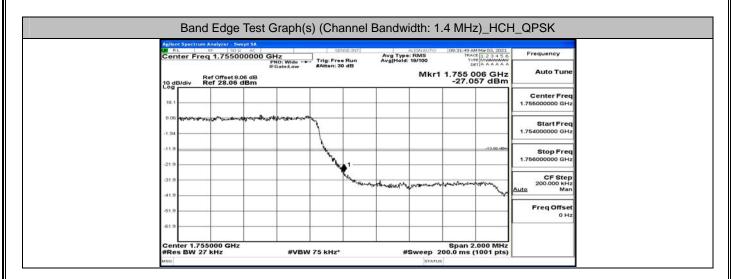


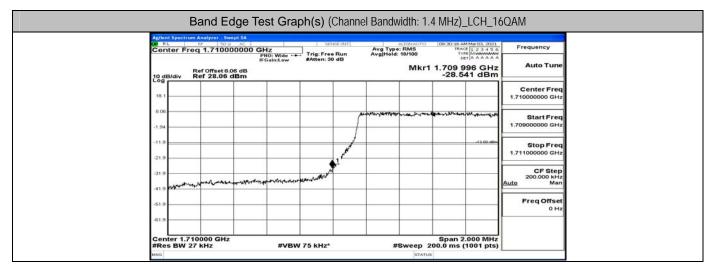


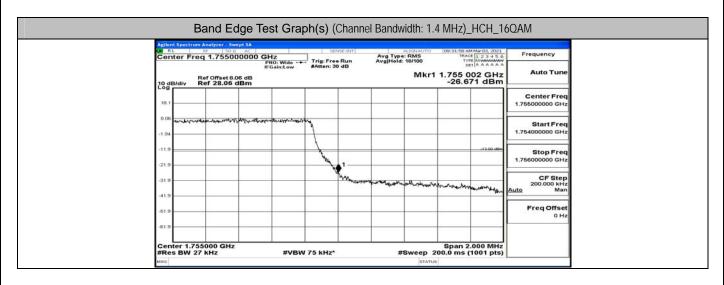


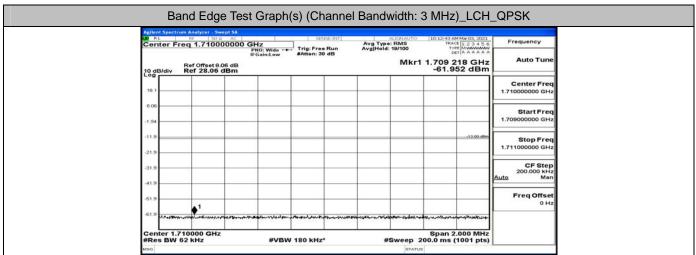
C.4 Band Edge

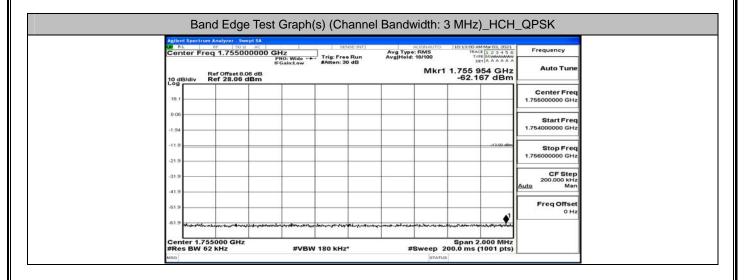


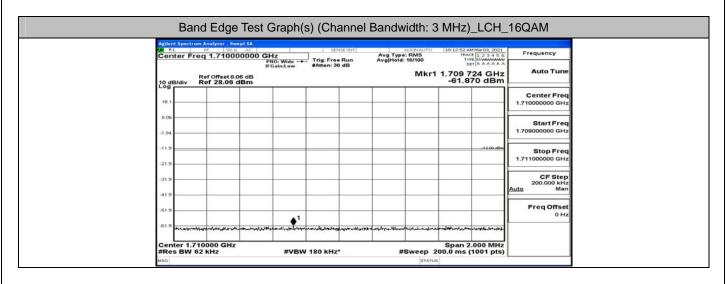


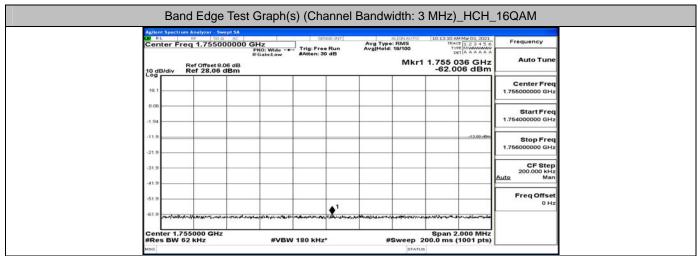


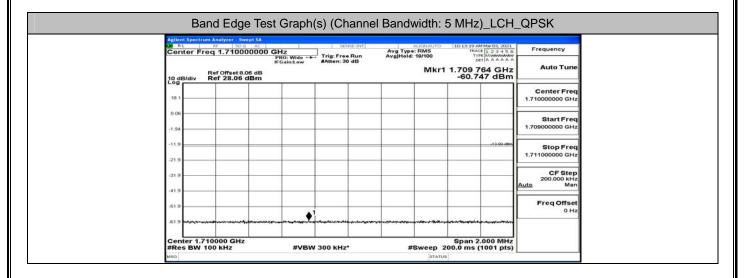


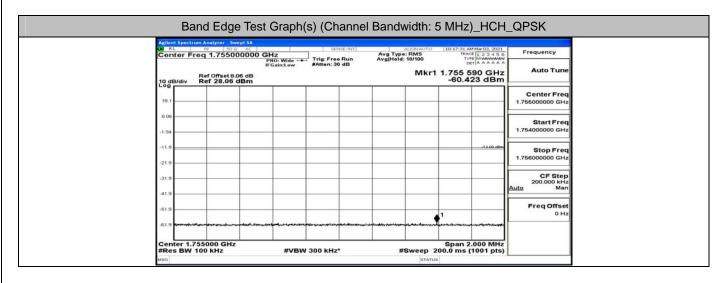


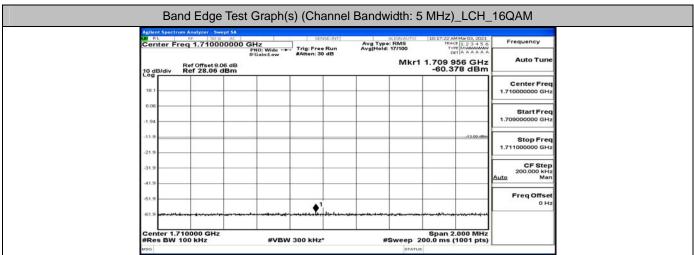


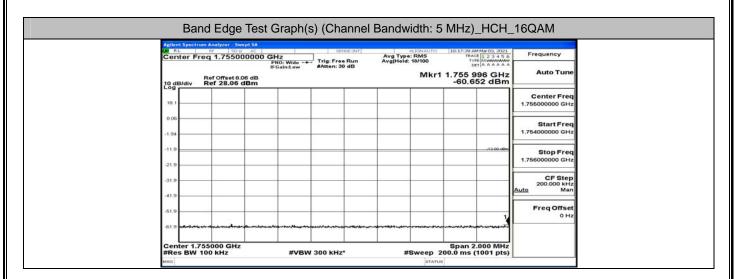




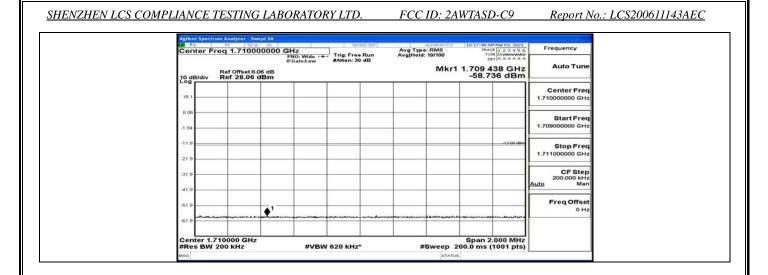


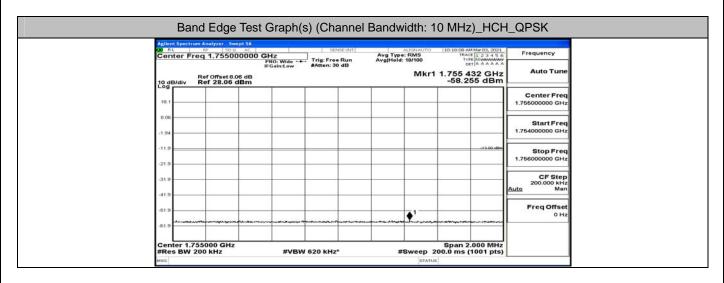


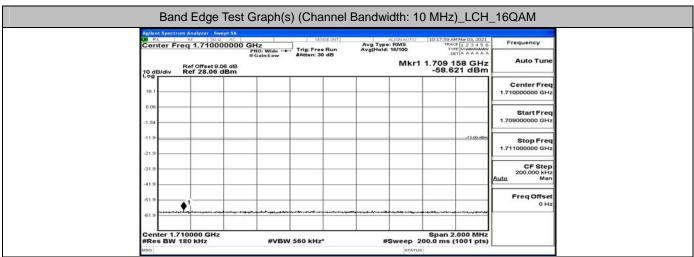


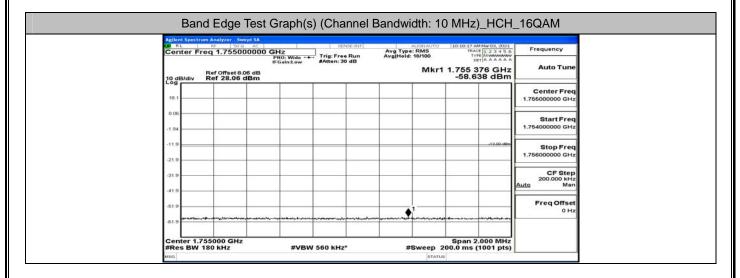


Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK

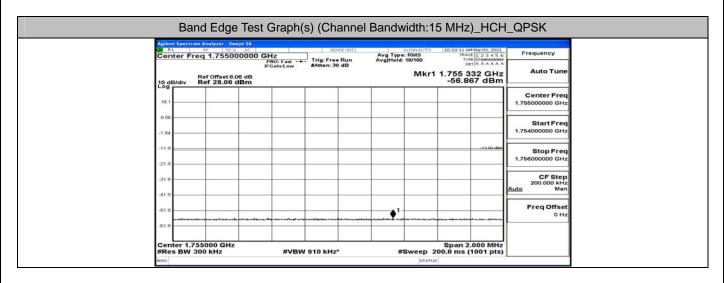


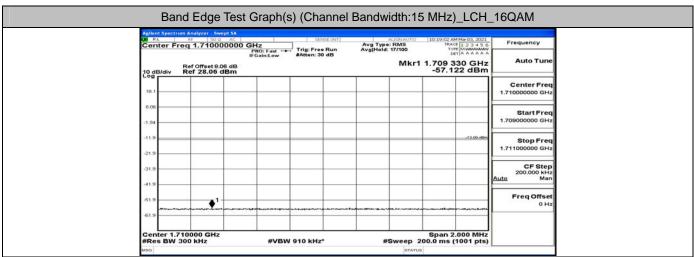


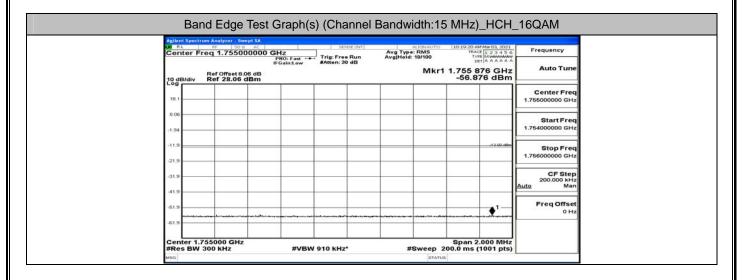


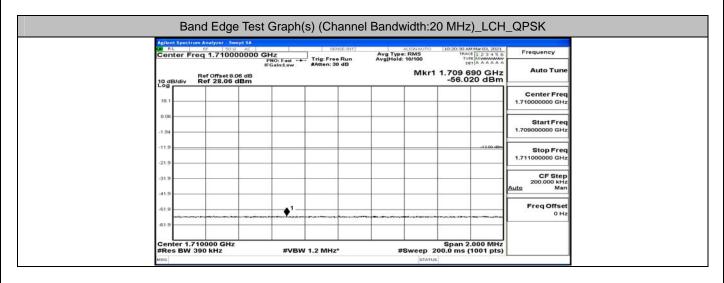


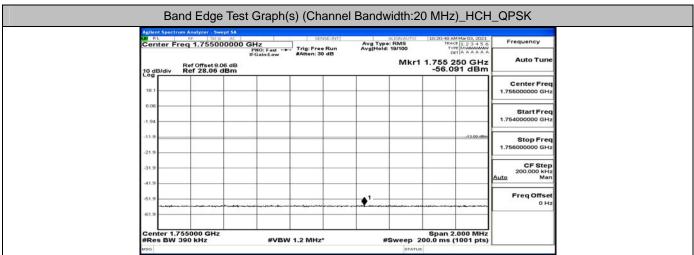
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK

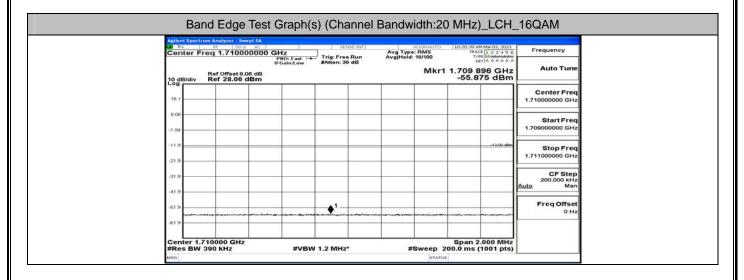


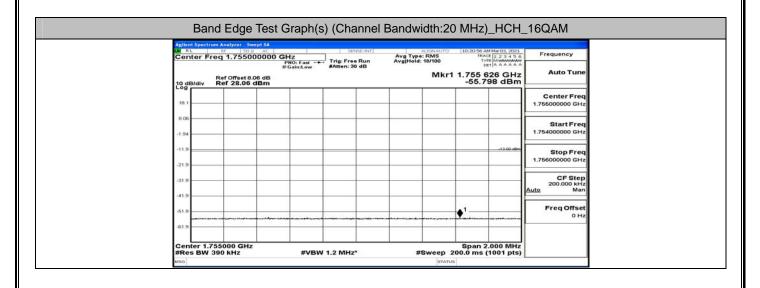












C.5 Conducted Spurious Emission

Test Graphs

Channel Bandwidth: 1.4 MHz

