Appendix B: Test Data for E-UTRA Band 2

Product Name: Vehicle intelligent terminal Trade Mark: TENSORTEC Test Model: MV03

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	LI HUAN

B.1 Conducted Output Power

	Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)								
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Vandiat			
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict			
		1	0	22.80	21.42	PASS			
		1	3	22.65	21.63	PASS			
		1	5	22.51	21.54	PASS			
	LCH	3	0	22.28	21.59	PASS			
		3	2	22.40	21.68	PASS			
		3	3	22.37	21.41	PASS			
		6	0	21.34	20.45	PASS			
		1	0	22.74	22.11	PASS			
		1	3	22.86	22.12	PASS			
QPSK /		1	5	22.77	22.01	PASS			
16QAM	MCH	3	0	22.82	21.77	PASS			
TOQAIVI		3	2	22.82	21.54	PASS			
		3	3	22.75	21.50	PASS			
		6	0	21.75	20.66	PASS			
		1	0	22.42	21.58	PASS			
		1	3	22.93	21.64	PASS			
		1	5	22.85	21.48	PASS			
	HCH	3	0	22.79	21.89	PASS			
		3	2	22.86	21.44	PASS			
		3	3	22.80	21.57	PASS			
		6	0	21.92	21.06	PASS			

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)								
Madulation	Channal	RB Configuration		Average Power [dBm]	Average Power [dBm]	Vandiat		
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict		
		1	0	22.33	21.58	PASS		
		1	7	22.34	21.48	PASS		
		1	14	22.61	21.92	PASS		
	LCH	8	0	21.51	20.52	PASS		
		8	4	21.56	20.52	PASS		
		8	7	21.59	20.69	PASS		
		15	0	21.46	20.66	PASS		
		1	0	22.52	21.90	PASS		
	МСН	1	7	22.65	22.18	PASS		
ODCK /		1	14	22.86	22.28	PASS		
QPSK / 16QAM		8	0	21.82	20.97	PASS		
IOQAIVI		8	4	21.73	20.87	PASS		
		8	7	21.66	20.90	PASS		
		15	0	21.69	20.76	PASS		
		1	0	22.67	21.58	PASS		
		1	7	22.73	21.75	PASS		
		1	14	23.14	21.63	PASS		
	нсн	8	0	21.94	20.74	PASS		
		8	4	21.87	20.83	PASS		
		8	7	21.88	20.87	PASS		
		15	0	21.80	20.92	PASS		

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)							
NA - de de ations	Observat	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/!:-4	
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict	
		1	0	22.50	21.27	PASS	
		1	12	22.87	21.22	PASS	
		1	24	22.73	21.23	PASS	
	LCH	12	0	21.60	20.77	PASS	
		12	6	21.54	20.63	PASS	
		12	13	21.74	20.85	PASS	
		25	0	21.63	20.86	PASS	
		1	0	22.81	21.33	PASS	
	МСН	1	12	23.07	21.73	PASS	
QPSK /		1	24	22.83	21.69	PASS	
16QAM		12	0	21.84	20.81	PASS	
IOQAW		12	6	21.72	20.78	PASS	
		12	13	21.85	20.99	PASS	
		25	0	21.82	20.78	PASS	
		1	0	22.78	21.65	PASS	
		1	12	22.62	21.36	PASS	
		1	24	22.97	21.51	PASS	
	нсн	12	0	21.80	20.79	PASS	
		12	6	21.85	20.76	PASS	
		12	13	21.97	20.86	PASS	
		25	0	21.87	20.86	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	22.43	22.56	PASS		
		1	24	22.68	22.30	PASS		
		1	49	22.99	22.42	PASS		
	LCH	25	0	21.72	20.77	PASS		
		25	12	21.70	20.73	PASS		
		25	25	21.91	21.05	PASS		
		50	0	21.77	20.82	PASS		
		1	0	22.81	22.45	PASS		
	мсн	1	24	22.69	22.37	PASS		
QPSK /		1	49	22.98	22.44	PASS		
16QAM		25	0	21.96	21.11	PASS		
IOQAW		25	12	21.83	20.89	PASS		
		25	25	21.91	21.08	PASS		
		50	0	21.92	20.90	PASS		
		1	0	22.74	21.62	PASS		
		1	24	22.79	21.81	PASS		
		1	49	23.00	21.70	PASS		
	нсн	25	0	21.84	21.02	PASS		
		25	12	21.94	20.86	PASS		
		25	25	21.95	20.89	PASS		
		50	0	21.87	20.85	PASS		

	Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)							
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/andiat		
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict		
		1	0	22.28	21.76	PASS		
		1	37	22.86	22.28	PASS		
		1	74	22.93	22.27	PASS		
	LCH	37	0	21.64	20.67	PASS		
		37	18	21.86	20.90	PASS		
		37	38	21.95	20.98	PASS		
		75	0	21.80	20.83	PASS		
		1	0	22.58	22.52	PASS		
	мсн	1	37	22.79	22.27	PASS		
QPSK /		1	74	22.80	22.45	PASS		
16QAM		37	0	21.81	21.01	PASS		
IOQAW		37	18	21.91	20.78	PASS		
		37	38	21.76	21.02	PASS		
		75	0	21.86	20.90	PASS		
		1	0	22.75	21.87	PASS		
		1	37	22.93	21.90	PASS		
		1	74	22.97	21.81	PASS		
	нсн	37	0	21.83	20.83	PASS		
		37	18	21.87	20.85	PASS		
		37	38	21.84	20.84	PASS		
		75	0	21.87	20.91	PASS		

	Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)							
NA	Observat	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/l:t		
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict		
		1	0	22.49	21.15	PASS		
		1	49	23.20	21.34	PASS		
		1	99	22.94	21.35	PASS		
	LCH	50	0	21.78	20.94	PASS		
		50	25	21.95	20.99	PASS		
		50	50	21.95	21.11	PASS		
		100	0	21.75	21.06	PASS		
		1	0	22.84	21.86	PASS		
	МСН	1	49	22.76	21.72	PASS		
QPSK /		1	99	22.92	21.39	PASS		
16QAM		50	0	21.90	21.00	PASS		
IOQAIVI		50	25	21.86	20.91	PASS		
		50	50	21.77	20.80	PASS		
		100	0	21.93	20.97	PASS		
		1	0	22.72	21.32	PASS		
		1	49	22.64	21.55	PASS		
		1	99	22.69	21.41	PASS		
	нсн	50	0	21.69	20.55	PASS		
		50	25	21.90	20.67	PASS		
		50	50	21.82	20.79	PASS		
		100	0	21.80	20.85	PASS		

B.2 Peak-to-Average Ratio

	Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict			
iviodulation	Channel	[dB]	[dB]	verdict			
	LCH	3.78	<13	PASS			
QPSK	MCH	3.95	<13	PASS			
	HCH	4.61	<13	PASS			
	LCH	4.65	<13	PASS			
16QAM	MCH	4.63	<13	PASS			
	HCH	5.42	<13	PASS			

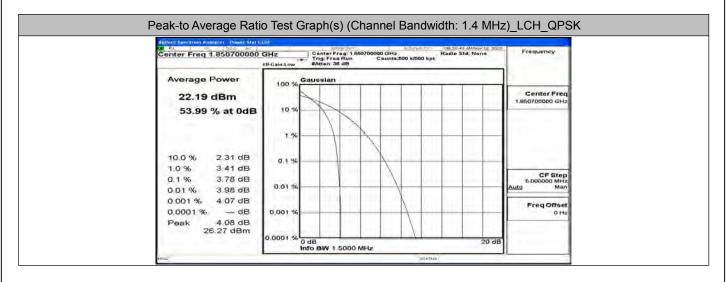
Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
Modulation	Chamilei	[dB]	[dB]	verdict		
	LCH	4.02	<13	PASS		
QPSK	MCH	4.21	<13	PASS		
	HCH	4.71	<13	PASS		
	LCH	4.86	<13	PASS		
16QAM	MCH	5.01	<13	PASS		
	HCH	5.54	<13	PASS		

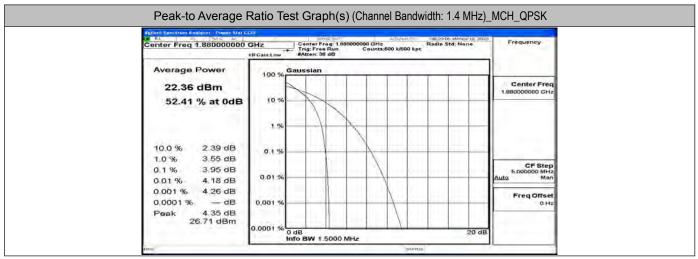
	Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict			
Modulation	Channel	[dB]	[dB]	verdict			
	LCH	3.95	<13	PASS			
QPSK	MCH	4.14	<13	PASS			
	HCH	4.67	<13	PASS			
	LCH	4.62	<13	PASS			
16QAM	MCH	4.95	<13	PASS			
	HCH	5.48	<13	PASS			

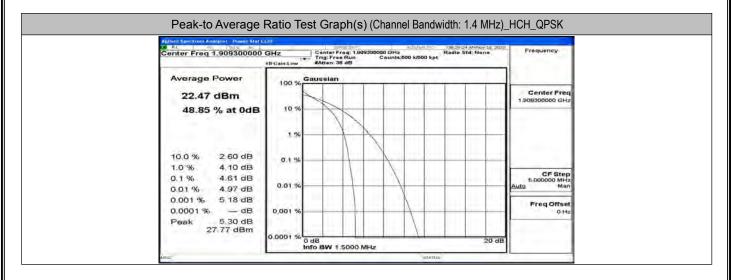
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
iviodulation	Glialillei	[dB]	[dB]	verdict		
	LCH	4.37	<13	PASS		
QPSK	MCH	4.37	<13	PASS		
	HCH	4.69	<13	PASS		
	LCH	5.1	<13	PASS		
16QAM	MCH	5.14	<13	PASS		
	HCH	5.49	<13	PASS		

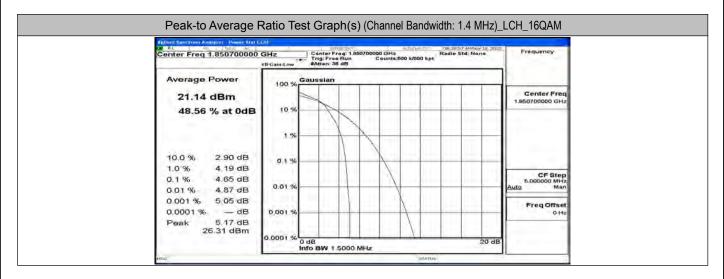
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict			
iviodulation	Gliannei	[dB]	[dB]	verdict			
	LCH	4.98	<13	PASS			
QPSK	MCH	4.81	<13	PASS			
	HCH	4.94	<13	PASS			
	LCH	6.05	<13	PASS			
16QAM	MCH	5.88	<13	PASS			
	HCH	6.01	<13	PASS			

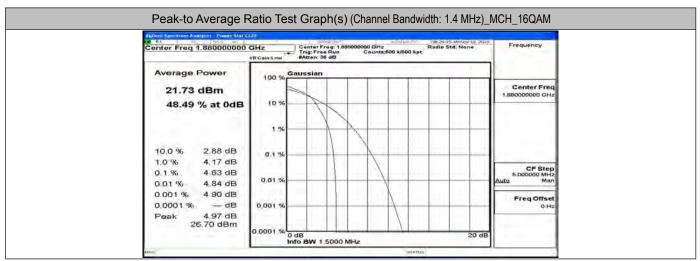
Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)					
Madulation	Channel	Peak-to-Average Ratio	Limit	Verdict	
Modulation		[dB]	[dB]		
QPSK	LCH	5.81	<13	PASS	
	MCH	5.77	<13	PASS	
	HCH	5.67	<13	PASS	
16QAM	LCH	6.86	<13	PASS	
	MCH	6.48	<13	PASS	
	HCH	6.58	<13	PASS	

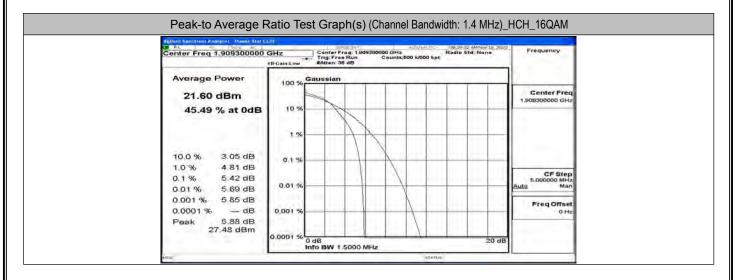


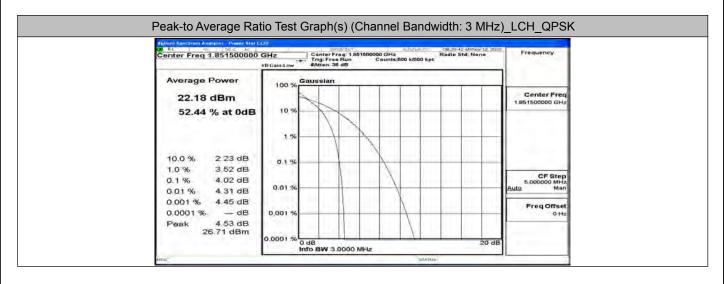


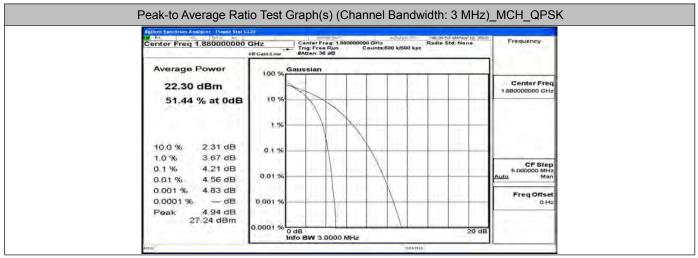


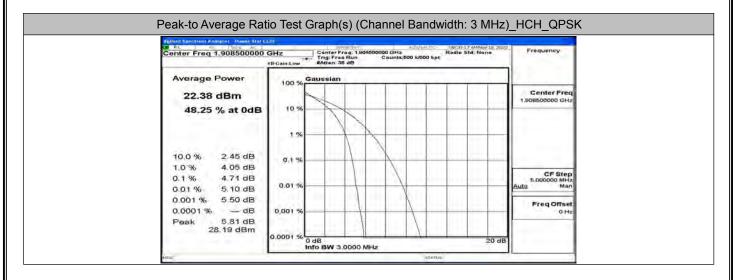


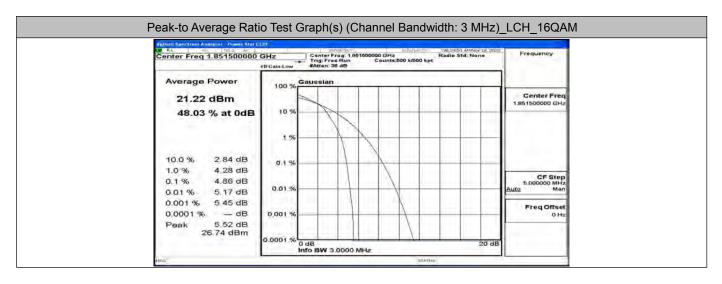


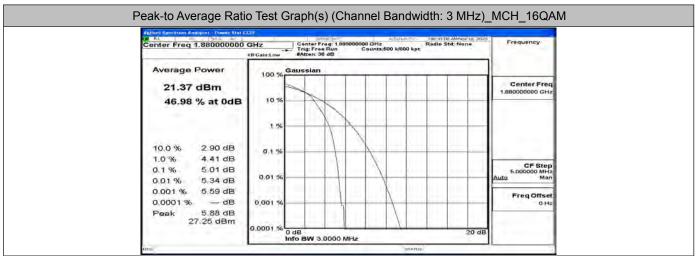


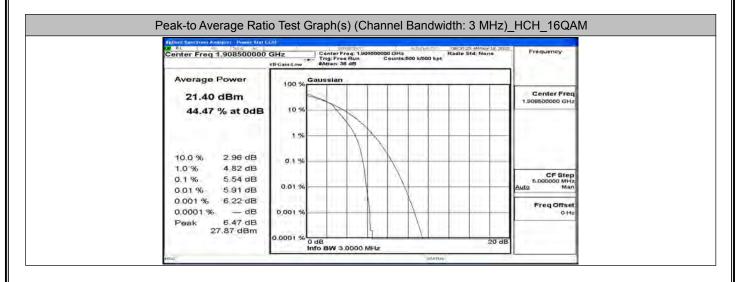


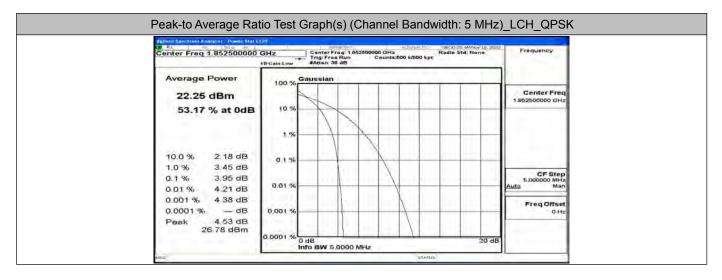


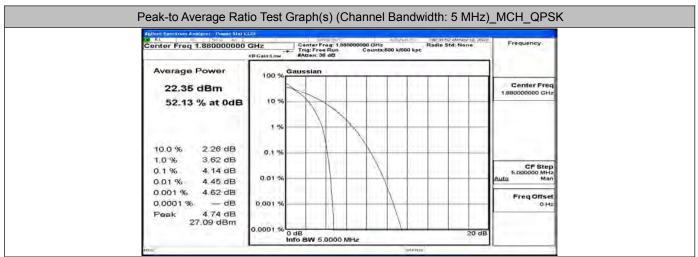


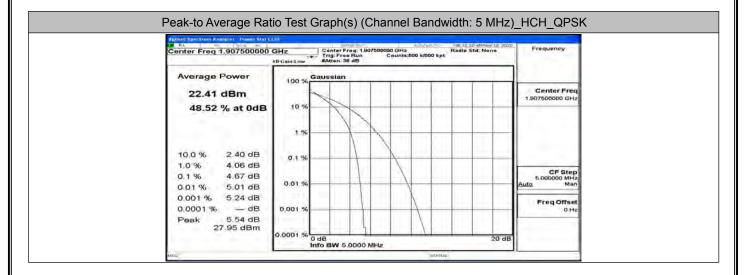


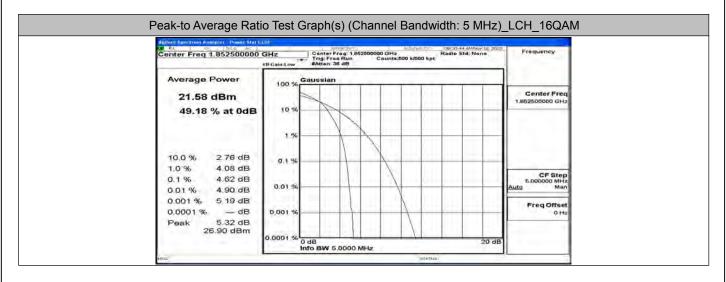


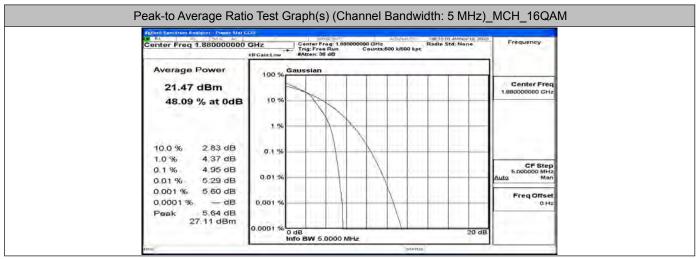


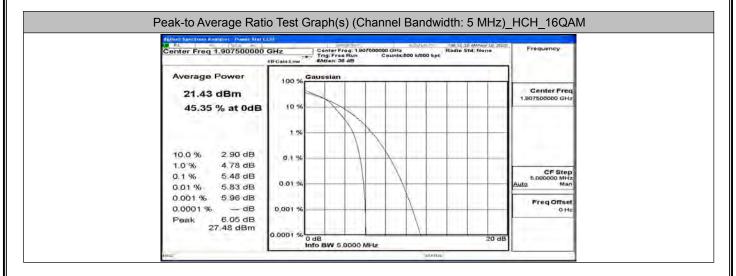




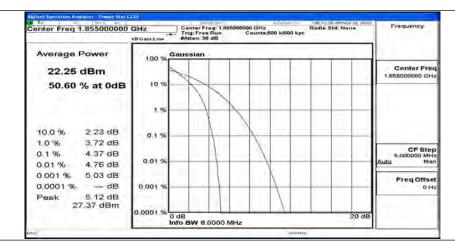


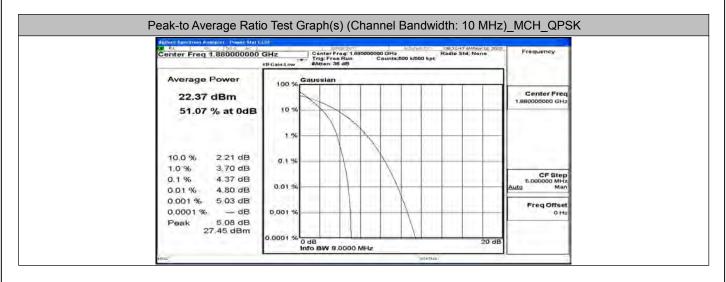


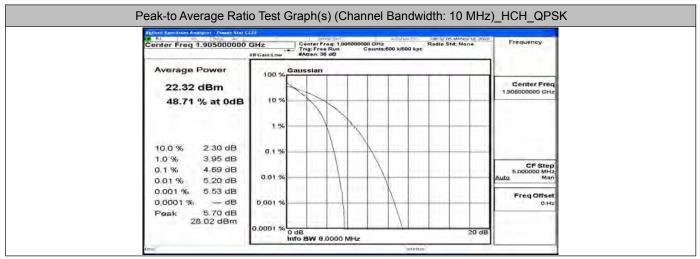


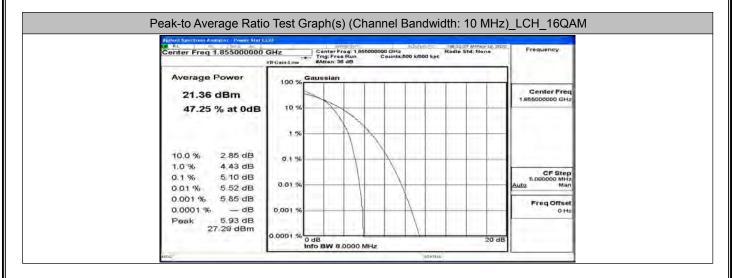


Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK

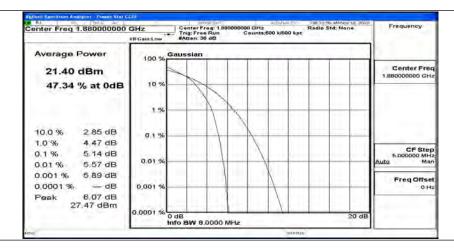


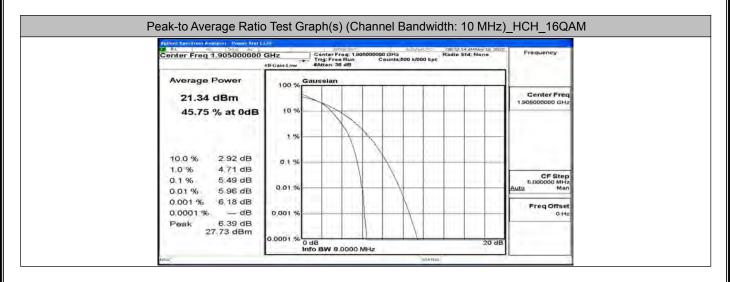


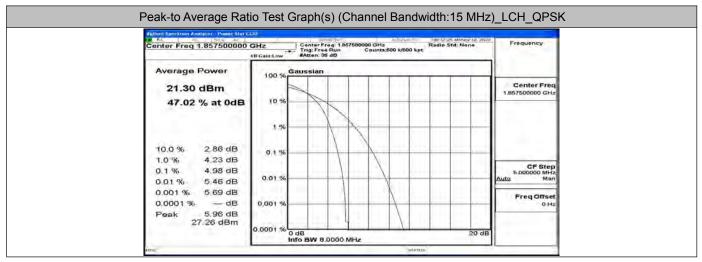


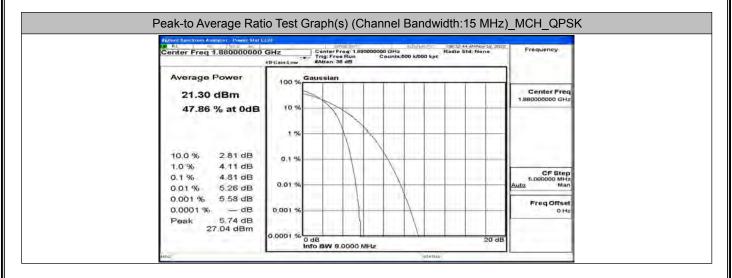


Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM

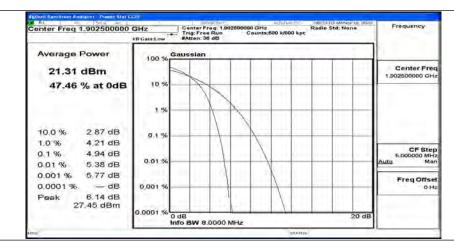


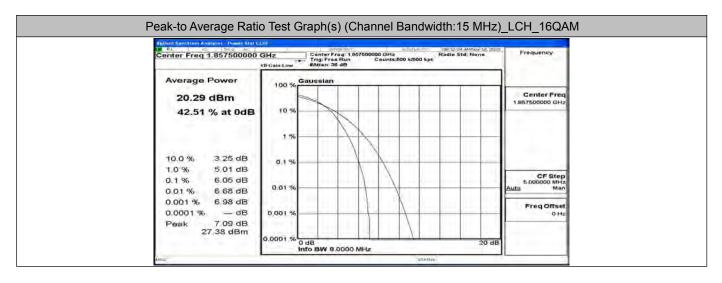


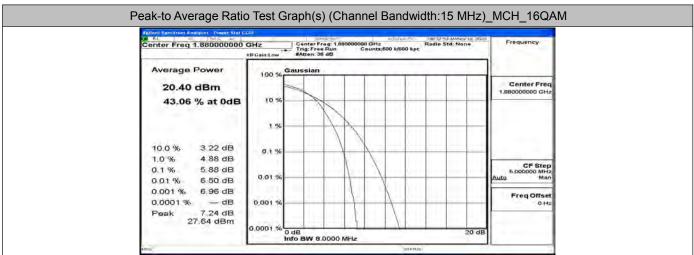


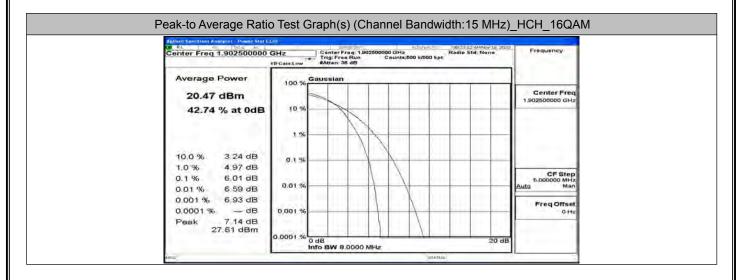


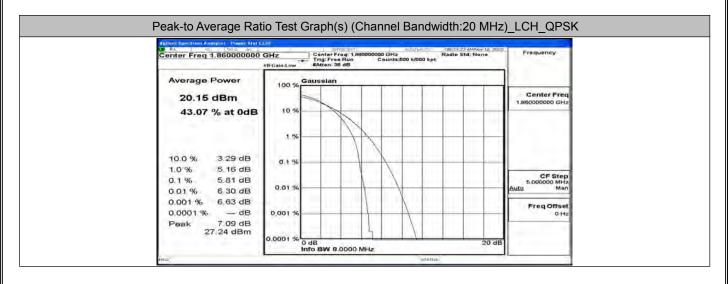
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK

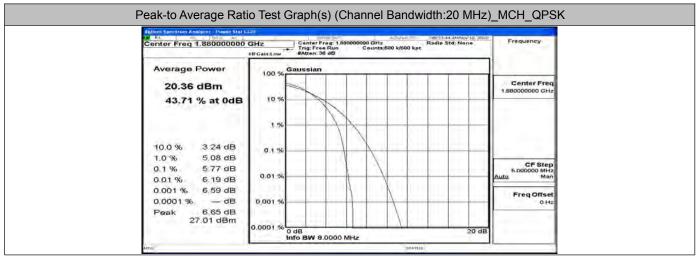


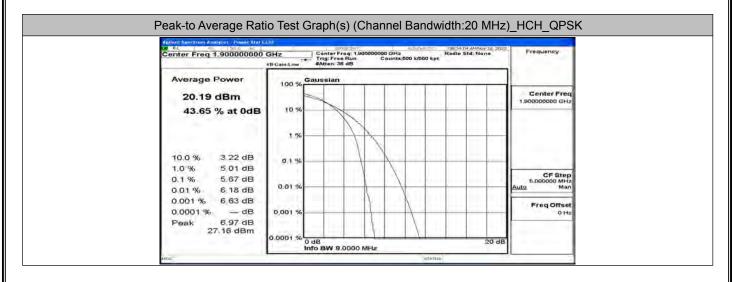


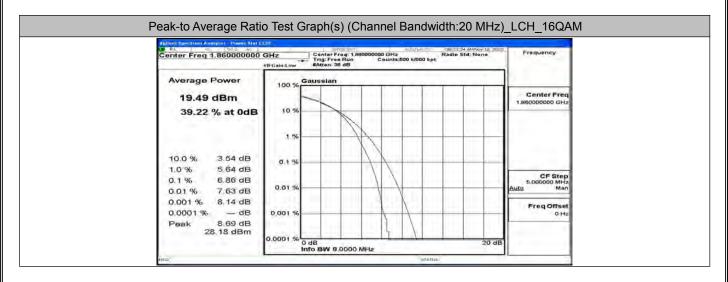


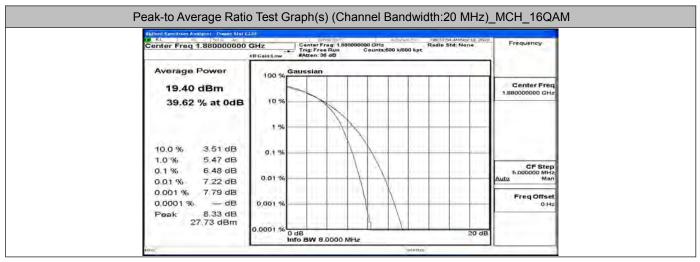


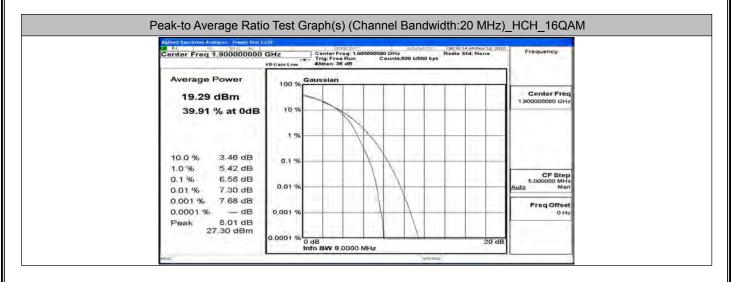












B.3 26dB Bandwidth and Occupied Bandwidth

EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation		(MHz)	(MHz)		
QPSK	LCH	1.0764	1.255	PASS	
	MCH	1.0798	1.244	PASS	
	HCH	1.0761	1.236	PASS	
16QAM	LCH	1.0795	1.257	PASS	
	MCH	1.0770	1.251	PASS	
	HCH	1.0799	1.236	PASS	

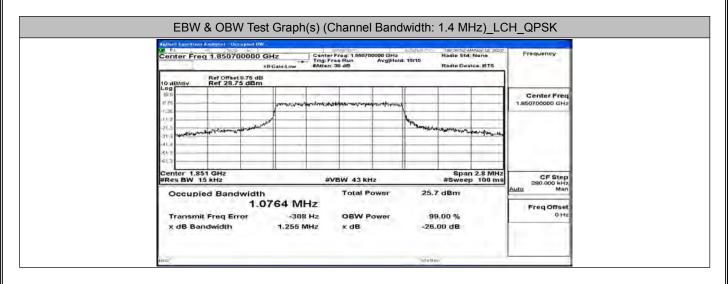
EBW & OBW Test Result (Channel Bandwidth: 3 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
iviodulation		(MHz)	(MHz)		
QPSK	LCH	2.6899	2.959	PASS	
	MCH	2.6870	2.930	PASS	
	HCH	2.6815	2.882	PASS	
16QAM	LCH	2.6849	2.905	PASS	
	MCH	2.6881	2.895	PASS	
	HCH	2.6869	2.902	PASS	

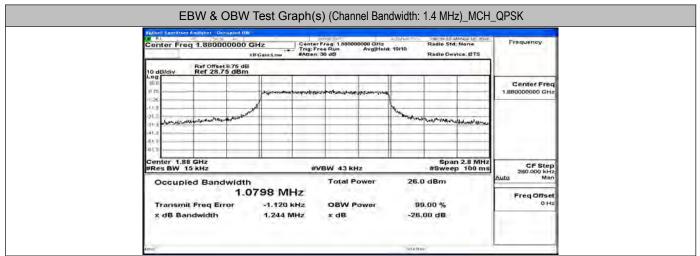
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation		(MHz)	(MHz)		
QPSK	LCH	4.4765	4.927	PASS	
	MCH	4.4760	4.856	PASS	
	HCH	4.4771	4.820	PASS	
16QAM	LCH	4.4841	4.868	PASS	
	MCH	4.4761	4.793	PASS	
	HCH	4.4770	4.859	PASS	

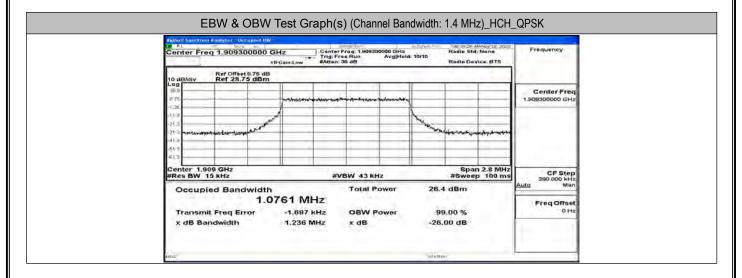
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
		(MHz)	(MHz)		
QPSK	LCH	8.9295	9.525	PASS	
	MCH	8.9106	9.405	PASS	
	HCH	8.9225	9.464	PASS	
16QAM	LCH	8.9327	9.485	PASS	
	MCH	8.9351	9.405	PASS	
	HCH	8.9112	9.391	PASS	

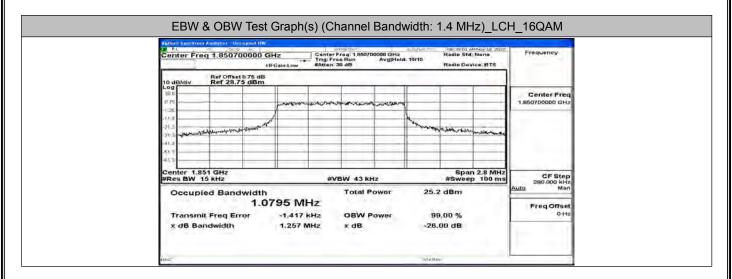
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Wodulation		(MHz)	(MHz)		
QPSK	LCH	13.373	14.11	PASS	
	MCH	13.359	14.09	PASS	
	HCH	13.343	14.00	PASS	
16QAM	LCH	13.377	14.06	PASS	
	MCH	13.360	14.02	PASS	
	HCH	13.373	14.04	PASS	

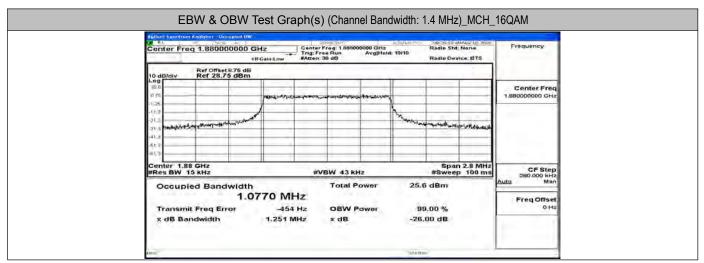
EBW & OBW Test Result (Channel Bandwidth: 20 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Wodulation		(MHz)	(MHz)		
QPSK	LCH	17.814	18.63	PASS	
	MCH	17.814	18.57	PASS	
	HCH	17.814	18.55	PASS	
16QAM	LCH	17.839	18.57	PASS	
	MCH	17.796	18.64	PASS	
	HCH	17.808	18.50	PASS	

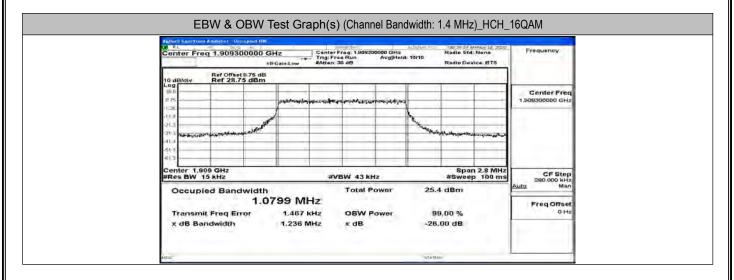


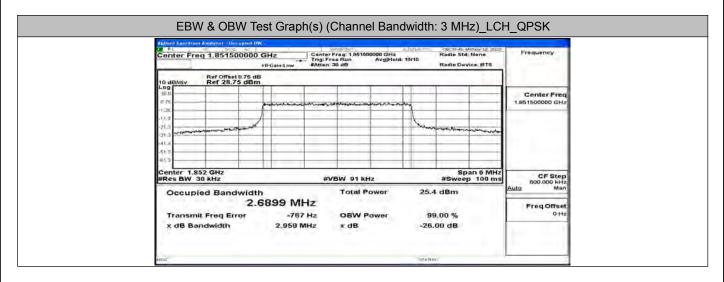


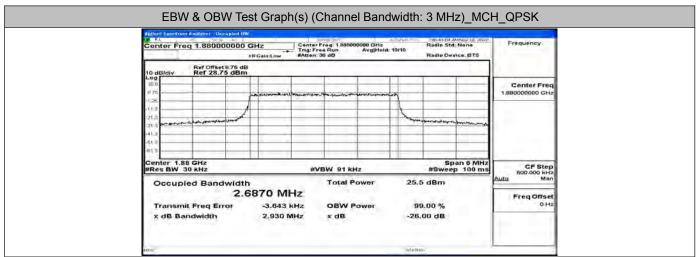


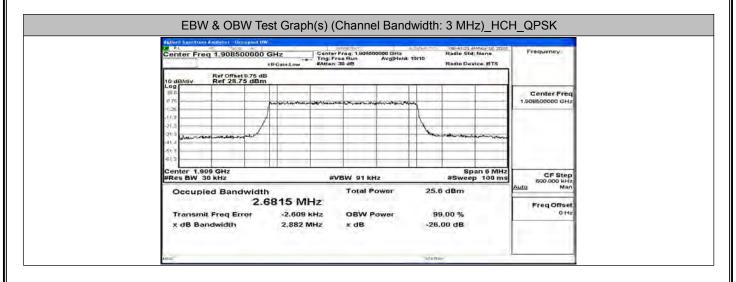


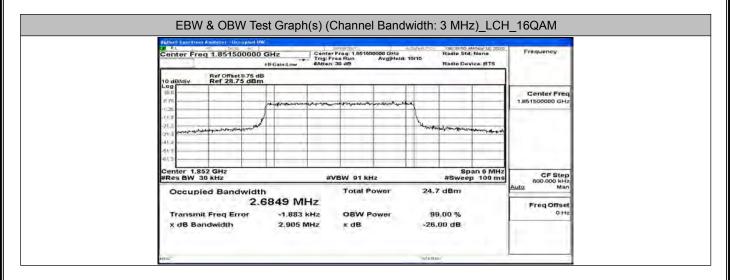


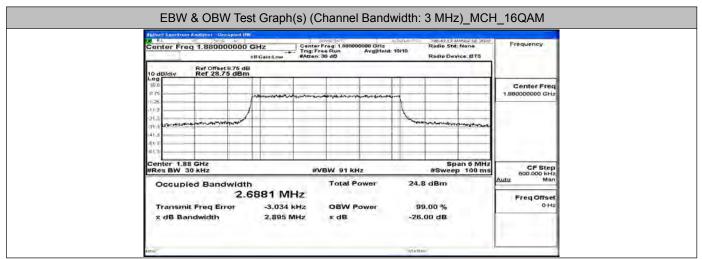


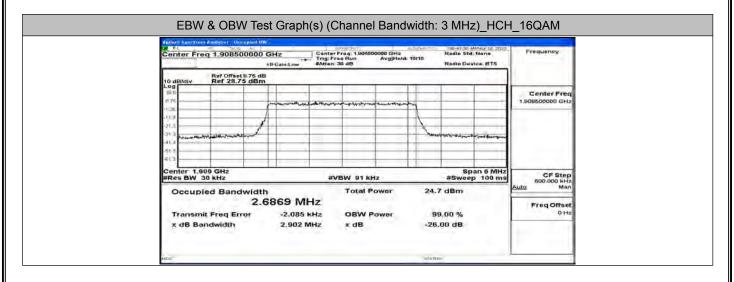


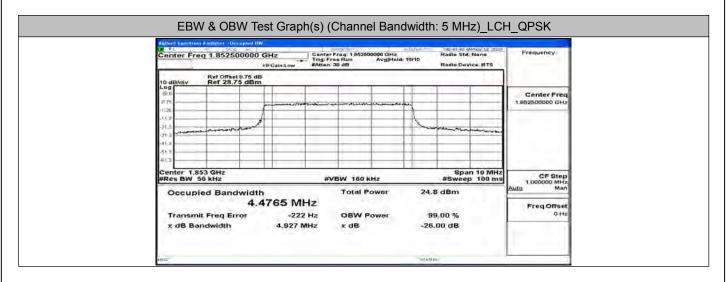


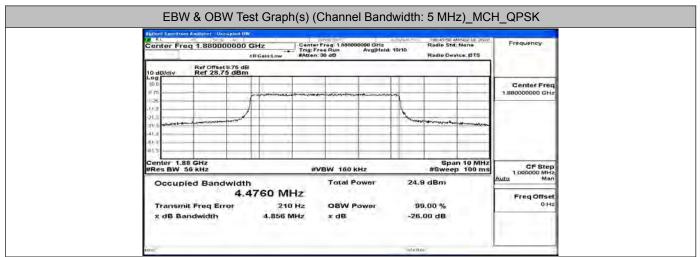


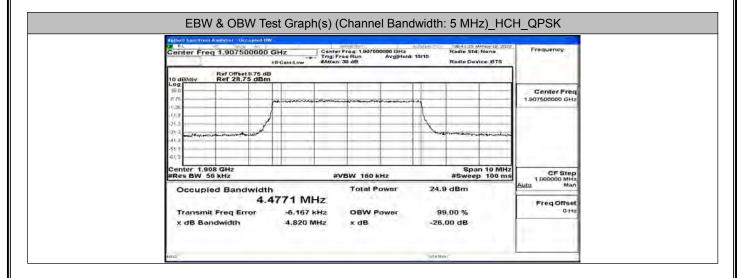


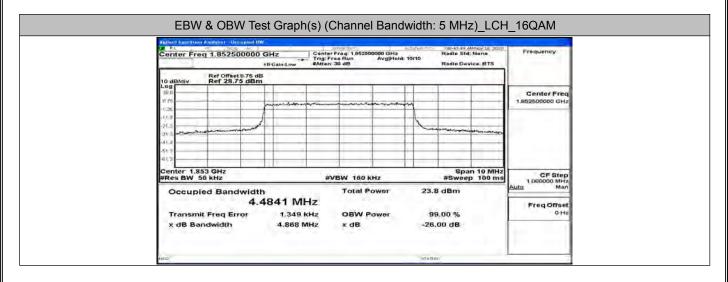


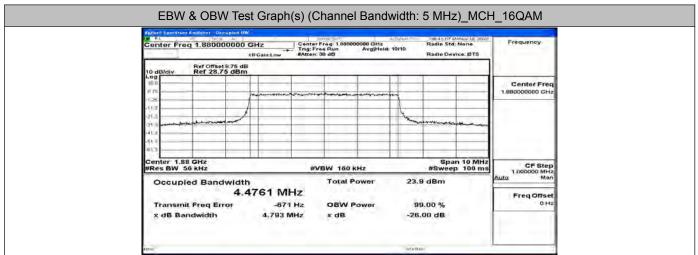


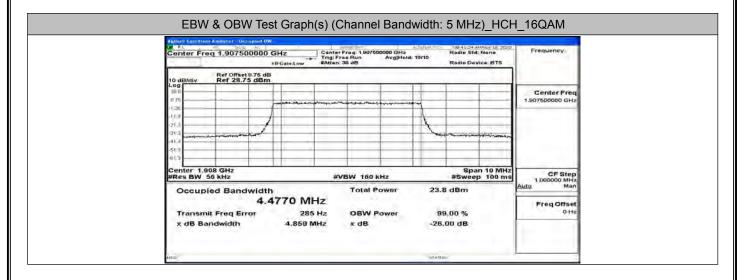


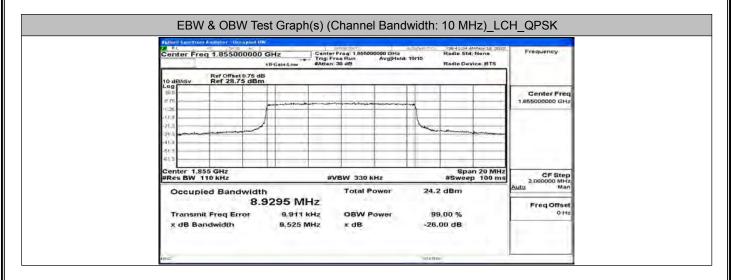


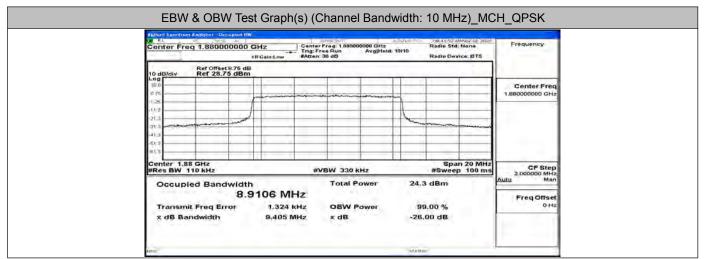


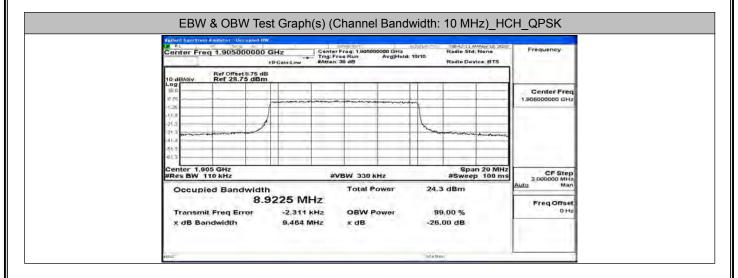


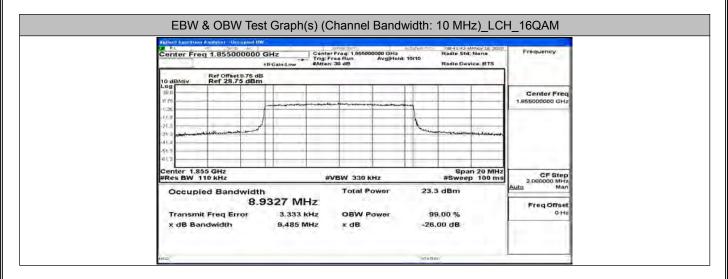


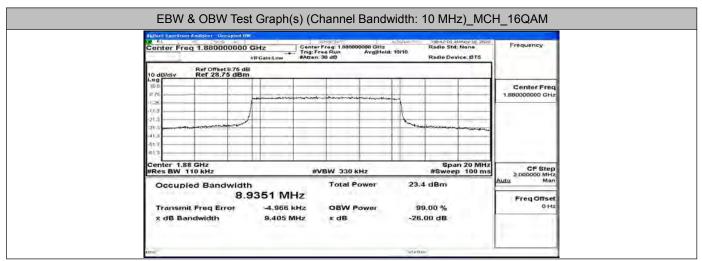


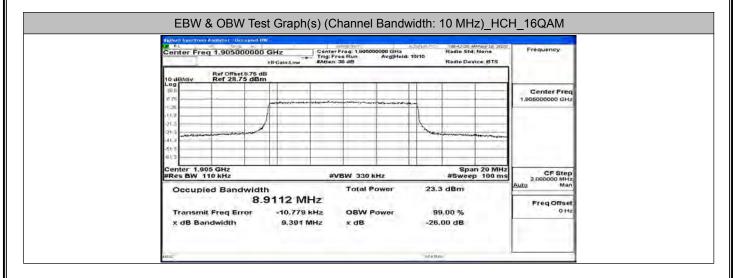


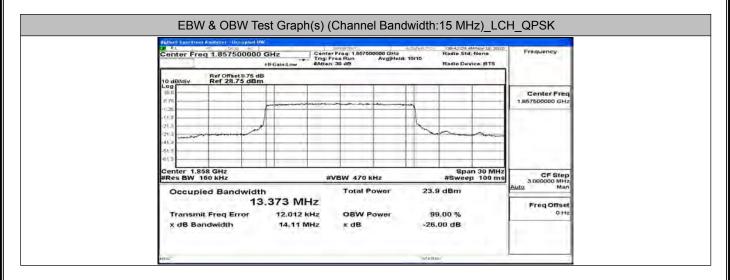


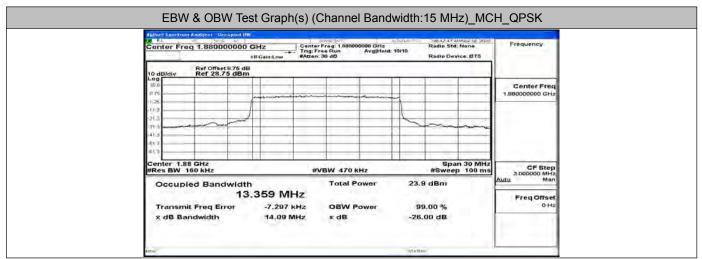


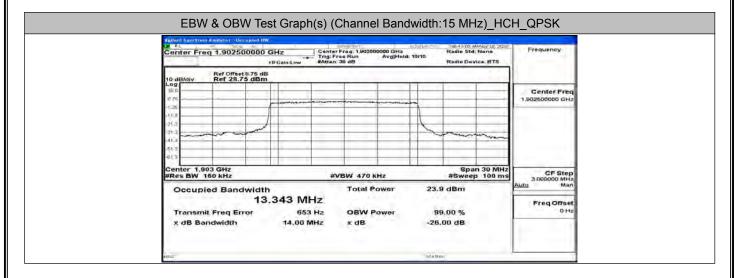


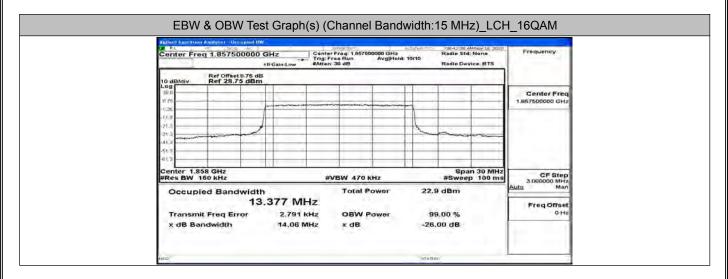


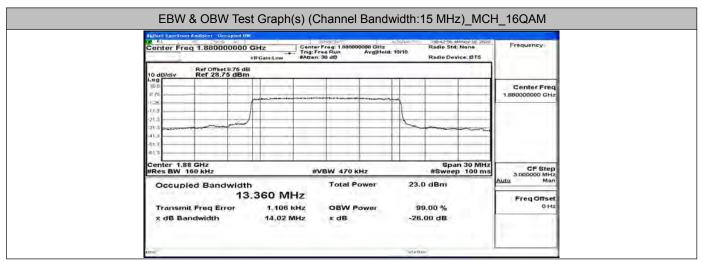


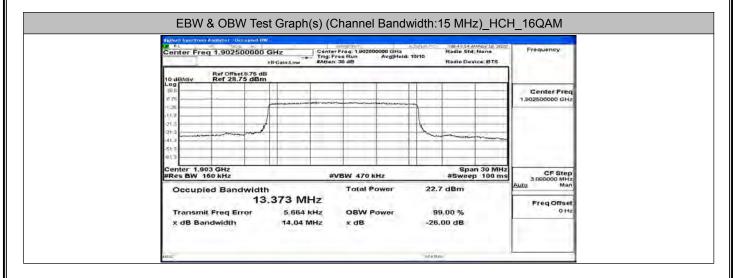


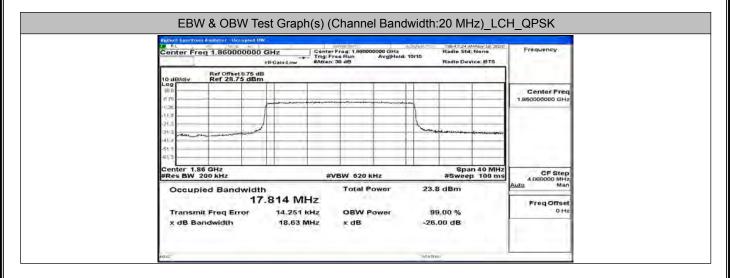


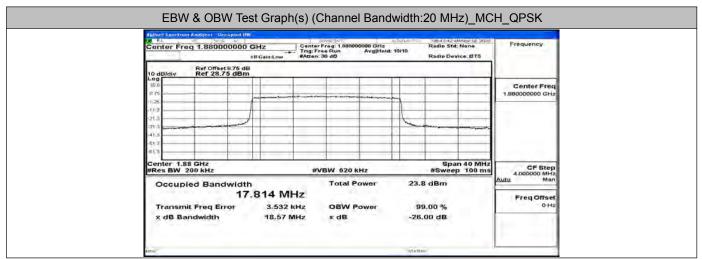


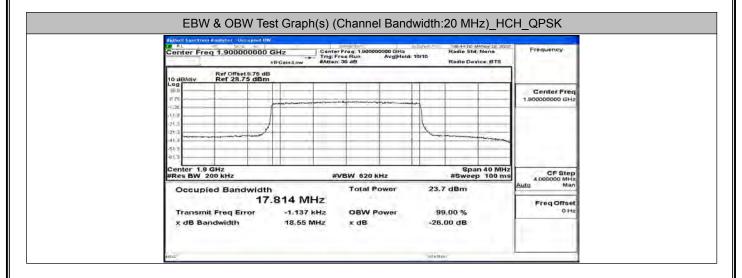


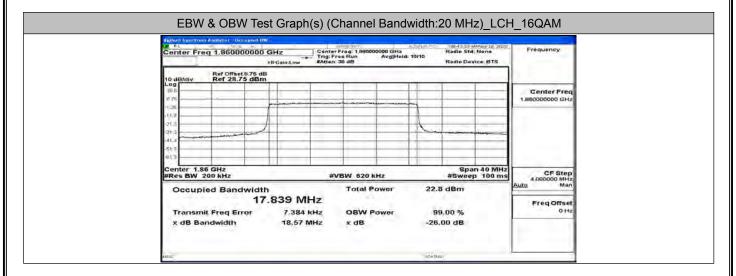


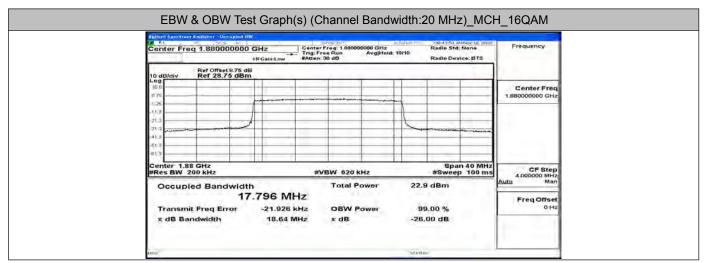


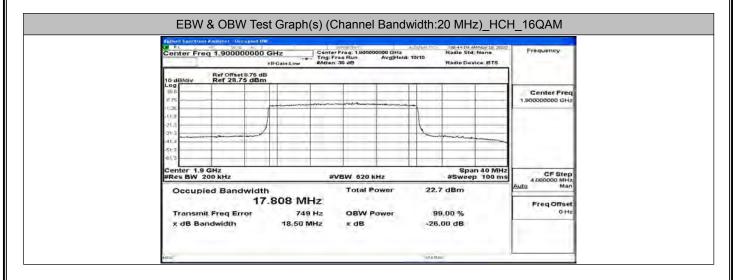




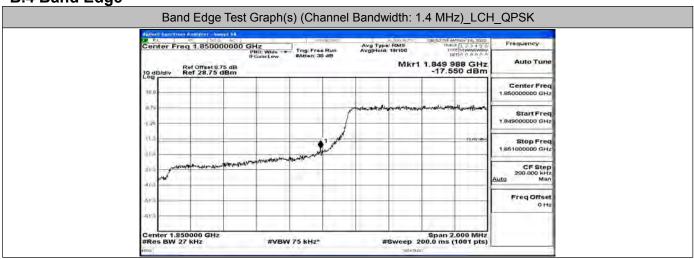


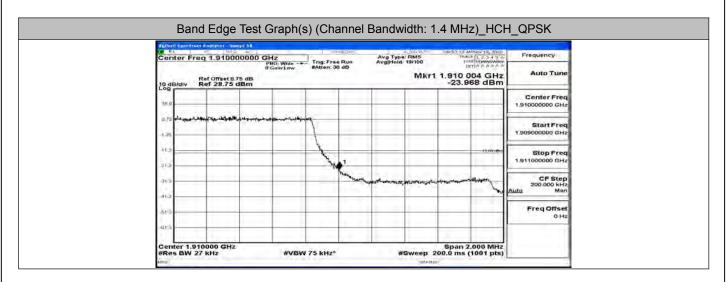


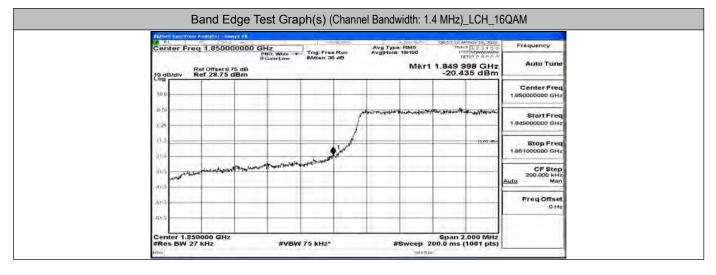


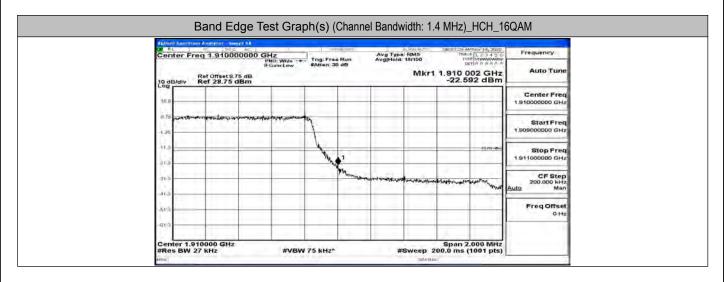


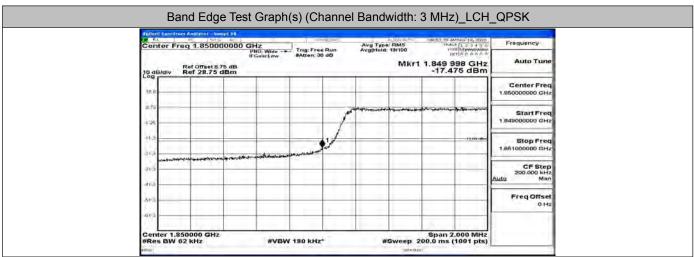
B.4 Band Edge

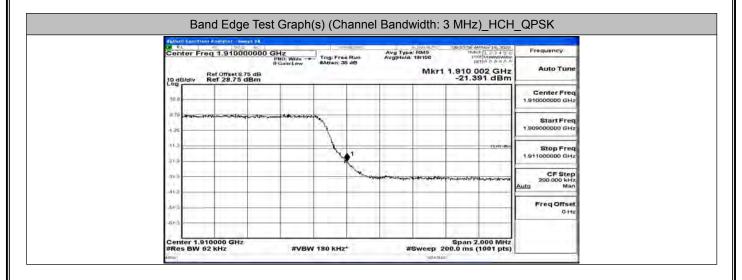


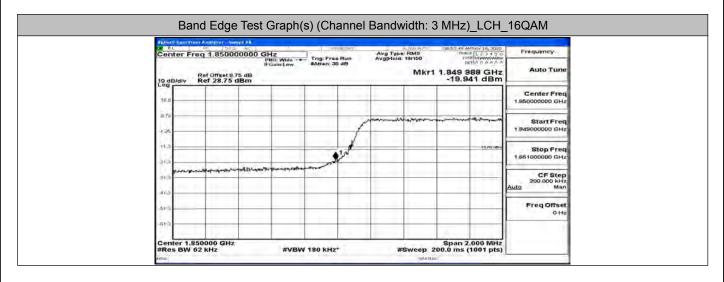


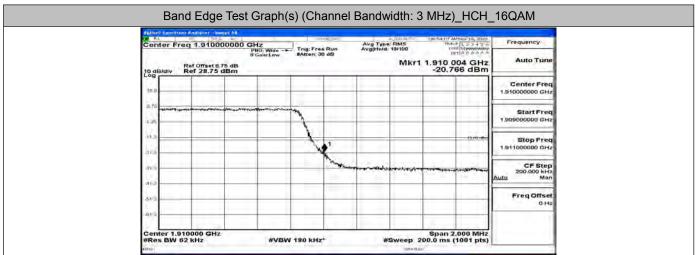


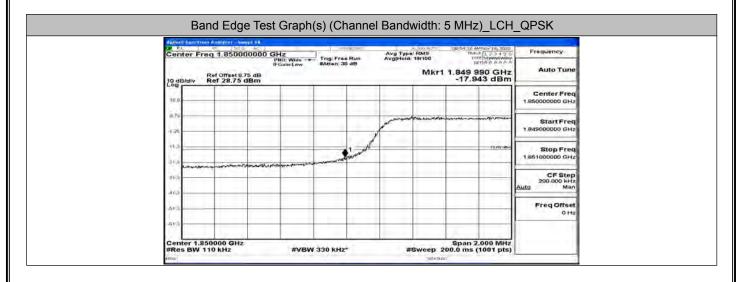


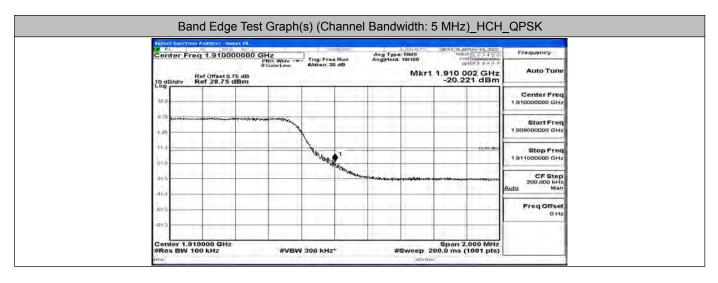


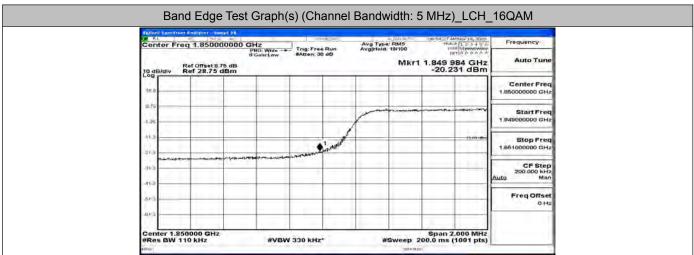


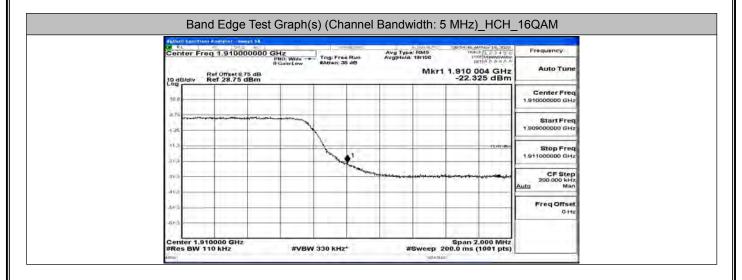






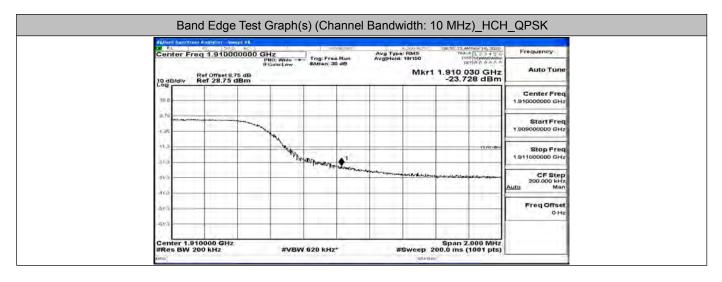


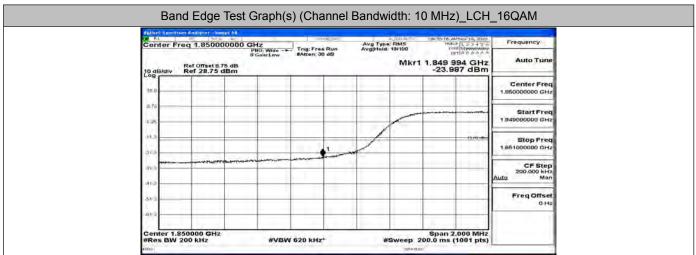


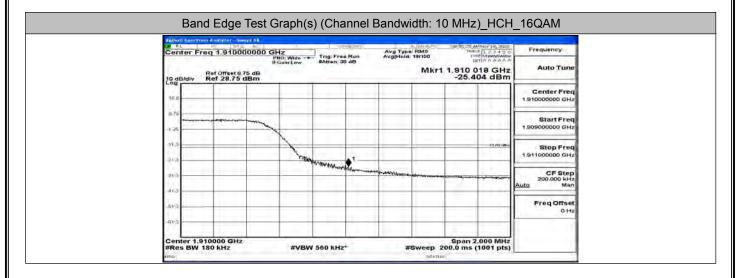


Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK

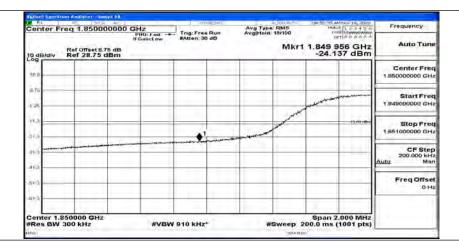


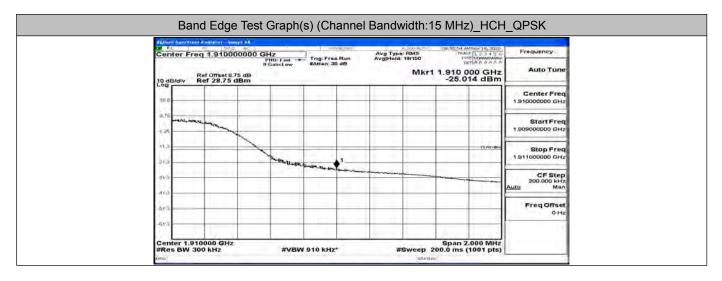


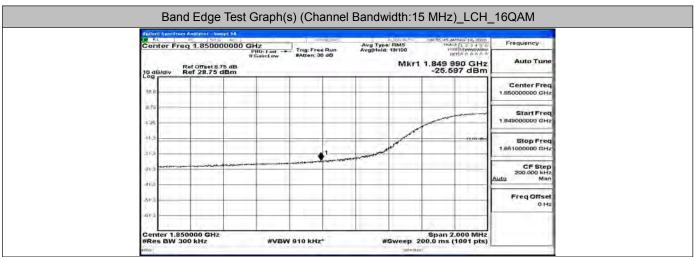


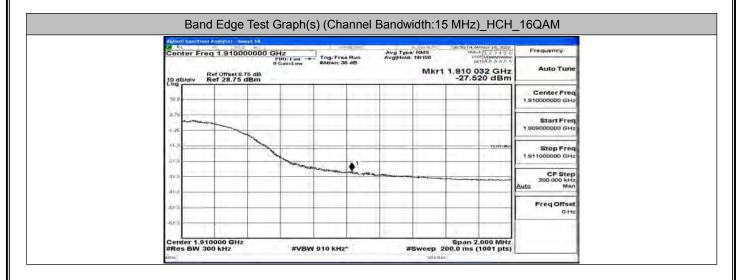


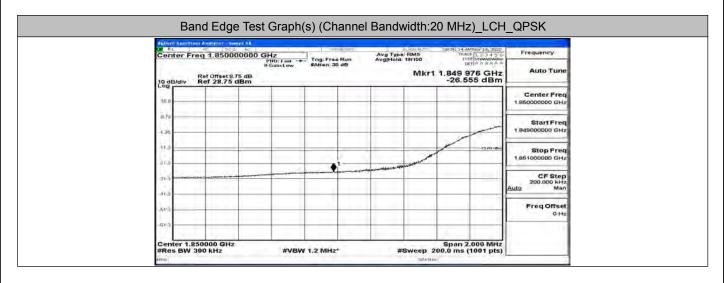
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK

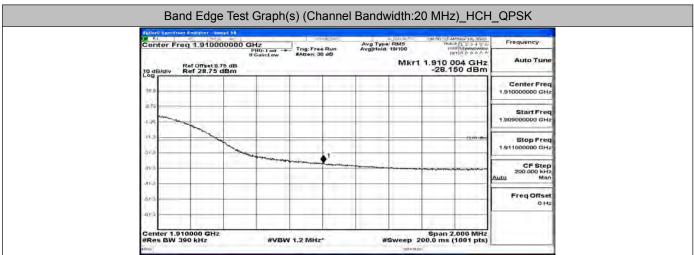


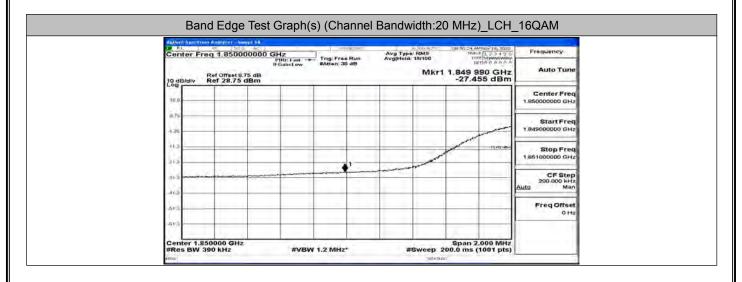


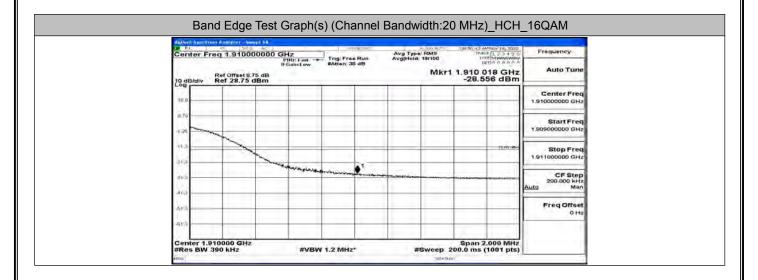












B.5 Conducted Spurious Emission

Test Graphs

Channel Bandwidth: 1.4 MHz

