Appendix A: Test Data for E-UTRA Band 2

Product Name: LTE GSM/WCDMA Smartphone

Trade Mark: DOOGEE Test Model: S70 Lite

Environmental Conditions

Temperature:	22.8
Relative Humidity:	53.2
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Jayden Zhuo

A.1 Conducted Output Power

	Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)							
Madulation	Channal	RB Configuration		Average Power [dBm]	Average Power [dBm]	\/a ==li =4		
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict		
		1	0	22.43	21.77	PASS		
		1	3	22.58	21.99	PASS		
		1	5	22.48	21.75	PASS		
	LCH	3	0	22.58	21.71	PASS		
		3	2	22.59	21.76	PASS		
		3	3	22.56	21.72	PASS		
		6	0	21.54	20.48	PASS		
		1	0	22.28	21.61	PASS		
	MCH	1	3	22.38	21.76	PASS		
QPSK /		1	5	22.27	21.58	PASS		
16QAM		3	0	22.38	21.33	PASS		
TOQAW		3	2	22.35	21.36	PASS		
		3	3	22.36	21.39	PASS		
		6	0	21.33	20.26	PASS		
		1	0	22.49	21.67	PASS		
		1	3	22.54	21.86	PASS		
		1	5	22.52	21.75	PASS		
	HCH	3	0	22.21	21.12	PASS		
		3	2	22.14	21.16	PASS		
		3	3	22.13	21.16	PASS		
		6	0	21.06	20.19	PASS		

	Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)								
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/andiat			
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict			
		1	0	22.00	21.43	PASS			
		1	7	22.28	21.59	PASS			
		1	14	21.98	21.32	PASS			
	LCH	8	0	21.09	20.16	PASS			
		8	4	21.11	20.23	PASS			
		8	7	21.04	20.10	PASS			
		15	0	21.08	20.08	PASS			
	мсн	1	0	21.91	21.14	PASS			
		1	7	22.08	21.32	PASS			
QPSK /		1	14	21.82	21.12	PASS			
16QAM		8	0	20.93	19.97	PASS			
TOQAIVI		8	4	20.94	19.99	PASS			
		8	7	20.87	19.87	PASS			
		15	0	20.84	19.83	PASS			
		1	0	22.02	21.36	PASS			
		1	7	22.32	21.51	PASS			
		1	14	22.10	21.46	PASS			
	HCH	8	0	21.12	20.09	PASS			
		8	4	21.11	20.09	PASS			
		8	7	21.11	20.05	PASS			
		15	0	21.05	20.04	PASS			

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)								
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/a ==li =4		
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict		
		1	0	22.03	21.46	PASS		
		1	12	22.33	21.42	PASS		
		1	24	21.94	21.38	PASS		
	LCH	12	0	21.05	20.26	PASS		
		12	6	21.10	20.30	PASS		
		12	13	21.02	20.21	PASS		
		25	0	21.10	20.14	PASS		
		1	0	21.84	21.28	PASS		
	МСН	1	12	22.05	21.52	PASS		
QPSK /		1	24	21.77	21.12	PASS		
16QAM		12	0	20.86	20.10	PASS		
IOQAW		12	6	20.95	20.10	PASS		
		12	13	20.81	19.96	PASS		
		25	0	20.87	19.92	PASS		
		1	0	21.94	20.87	PASS		
		1	12	22.34	21.36	PASS		
		1	24	22.06	21.04	PASS		
	HCH	12	0	21.07	20.08	PASS		
		12	6	21.09	20.16	PASS		
		12	13	20.93	20.05	PASS		
		25	0	21.07	20.07	PASS		

	Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)							
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/a ==li =4		
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict		
		1	0	22.06	21.35	PASS		
		1	24	22.22	21.48	PASS		
		1	49	21.88	21.19	PASS		
	LCH	25	0	21.11	20.12	PASS		
		25	12	21.06	20.09	PASS		
		25	25	21.13	20.15	PASS		
		50	0	21.09	20.10	PASS		
		1	0	21.90	21.14	PASS		
	МСН	1	24	22.06	21.34	PASS		
QPSK /		1	49	21.77	21.05	PASS		
16QAM		25	0	21.01	20.04	PASS		
IOQAW		25	12	20.93	19.96	PASS		
		25	25	20.84	19.84	PASS		
		50	0	20.91	19.93	PASS		
		1	0	21.80	21.17	PASS		
		1	24	22.16	21.42	PASS		
		1	49	22.07	21.42	PASS		
	HCH	25	0	20.97	19.98	PASS		
		25	12	21.01	19.99	PASS		
		25	25	20.97	19.92	PASS		
		50	0	20.95	19.95	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	21.99	21.27	PASS			
		1	37	22.19	21.54	PASS			
		1	74	21.86	21.10	PASS			
	LCH	37	0	21.03	20.11	PASS			
		37	18	21.08	20.05	PASS			
		37	38	21.08	20.06	PASS			
		75	0	21.08	20.07	PASS			
	МСН	1	0	21.85	21.12	PASS			
		1	37	22.11	21.36	PASS			
QPSK /		1	74	21.67	20.96	PASS			
16QAM		37	0	21.03	20.00	PASS			
TOQAW		37	18	20.99	19.98	PASS			
		37	38	20.85	19.82	PASS			
		75	0	21.01	19.92	PASS			
		1	0	21.70	21.03	PASS			
		1	37	22.15	21.34	PASS			
		1	74	22.01	21.26	PASS			
	HCH	37	0	20.83	19.86	PASS			
		37	18	21.03	20.03	PASS			
		37	38	21.03	20.01	PASS			
		75	0	20.99	19.92	PASS			

	Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)								
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/a ==li =4			
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict			
		1	0	22.02	21.23	PASS			
		1	49	22.27	21.44	PASS			
		1	99	21.89	21.04	PASS			
	LCH	50	0	20.91	19.91	PASS			
		50	25	21.03	19.98	PASS			
		50	50	21.06	20.08	PASS			
		100	0	21.02	20.03	PASS			
	MCH	1	0	21.93	21.11	PASS			
		1	49	22.19	21.35	PASS			
QPSK /		1	99	21.63	20.83	PASS			
16QAM		50	0	21.02	19.97	PASS			
IOQAW		50	25	20.95	19.95	PASS			
		50	50	20.69	19.68	PASS			
		100	0	20.86	19.85	PASS			
		1	0	21.70	21.04	PASS			
		1	49	22.10	21.41	PASS			
		1	99	21.98	21.28	PASS			
	HCH	50	0	20.74	19.75	PASS			
		50	25	20.90	19.92	PASS			
		50	50	20.78	19.84	PASS			
		100	0	20.79	19.78	PASS			

A.2 Peak-to-Average Ratio

Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict			
IVIOGUIATION	Chame	[dB]	[dB]	verdict			
	LCH	5.62	<13	PASS			
QPSK	MCH	5.24	<13	PASS			
	HCH	5.07	<13	PASS			
	LCH	6.64	<13	PASS			
16QAM	MCH	6.17	<13	PASS			
	HCH	6	<13	PASS			

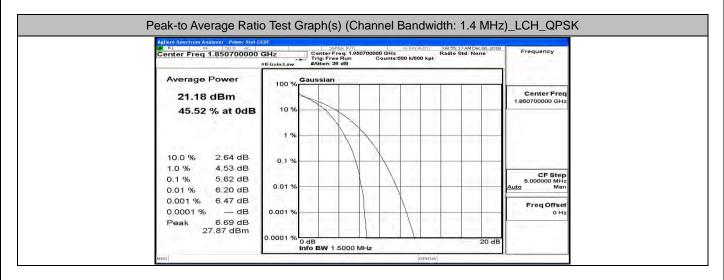
Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict			
Modulation	Channel	[dB]	[dB]	verdict			
	LCH	5.67	<13	PASS			
QPSK	MCH	5.36	<13	PASS			
	HCH	5.21	<13	PASS			
16QAM	LCH	6.59	<13	PASS			
	MCH	6.2	<13	PASS			
	HCH	5.93	<13	PASS			

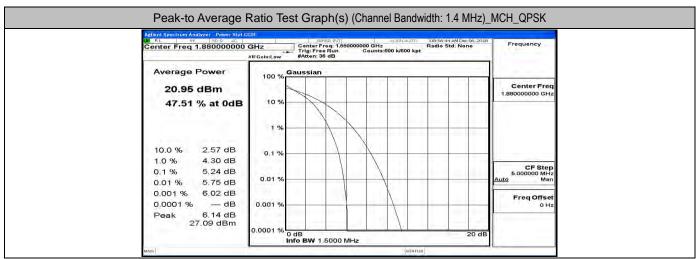
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict			
Modulation	Griannei	[dB]	[dB]	verdict			
	LCH	5.7	<13	PASS			
QPSK	MCH	5.44	<13	PASS			
	HCH	5.13	<13	PASS			
	LCH	6.5	<13	PASS			
16QAM	MCH	6.24	<13	PASS			
	HCH	5.96	<13	PASS			

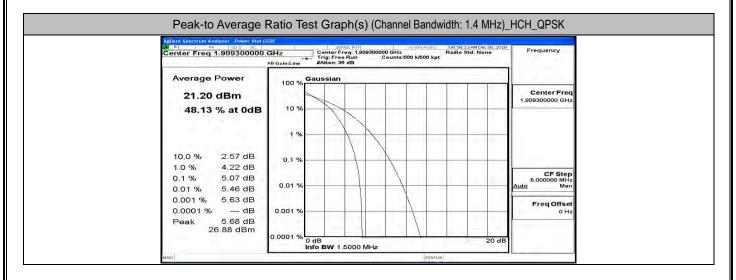
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict			
Modulation	Griannei	[dB]	[dB]	verdict			
	LCH	5.75	<13	PASS			
QPSK	MCH	5.47	<13	PASS			
	HCH	5.23	<13	PASS			
	LCH	6.44	<13	PASS			
16QAM	MCH	6.18	<13	PASS			
	HCH	5.96	<13	PASS			

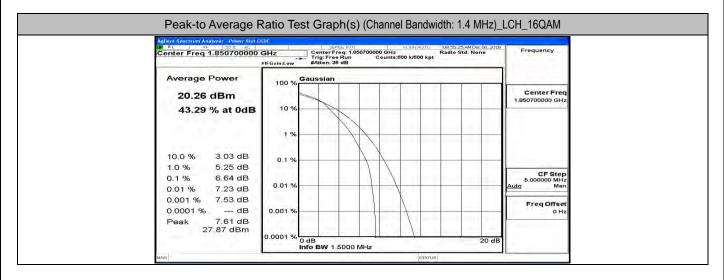
	Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict				
Modulation	Chame	[dB]	[dB]	verdict				
	LCH	5.1	<13	PASS				
QPSK	MCH	4.94	<13	PASS				
	HCH	4.92	<13	PASS				
	LCH	6.38	<13	PASS				
16QAM	MCH	6.23	<13	PASS				
	HCH	6.14	<13	PASS				

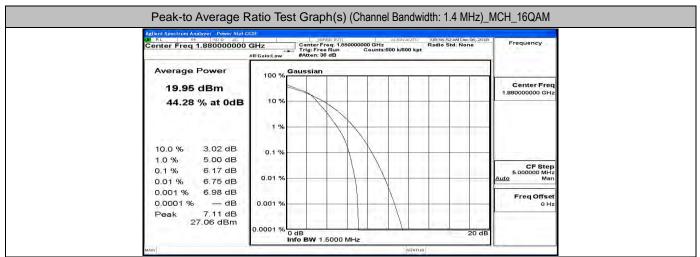
Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict	
Modulation		[dB]	[dB]		
QPSK	LCH	5.71	<13	PASS	
	MCH	5.69	<13	PASS	
	HCH	5.72	<13	PASS	
16QAM	LCH	6.81	<13	PASS	
	MCH	6.77	<13	PASS	
	HCH	6.69	<13	PASS	

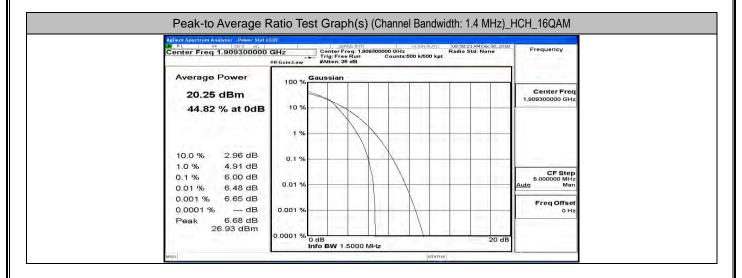


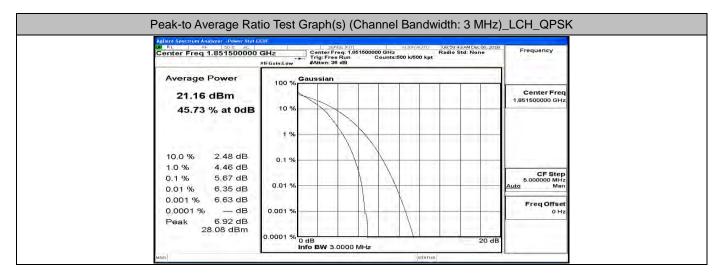


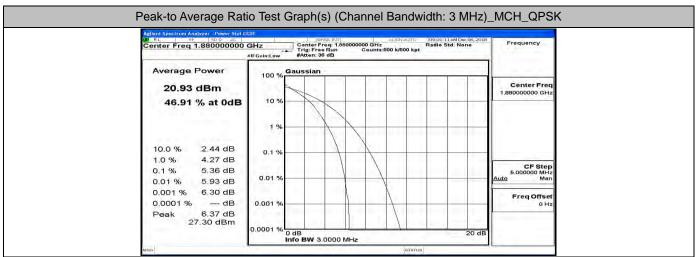


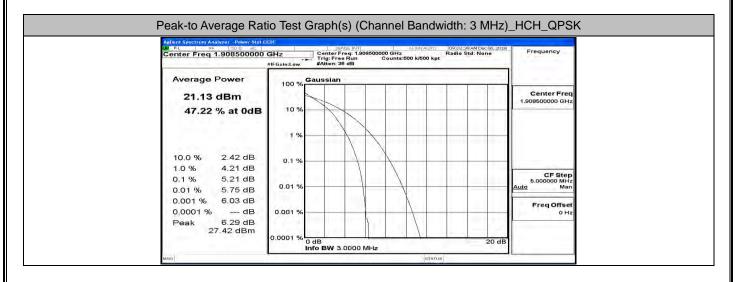


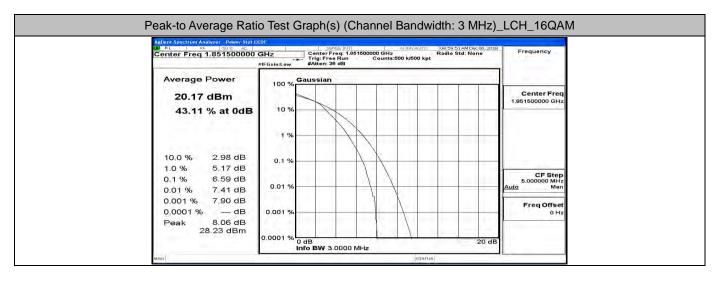


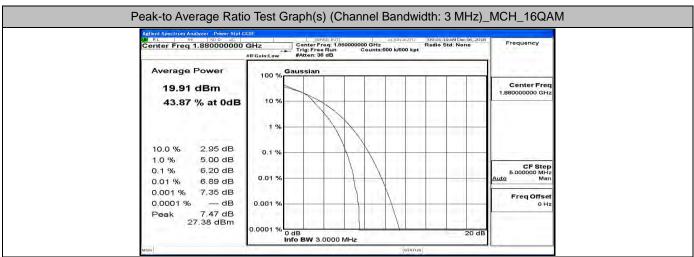


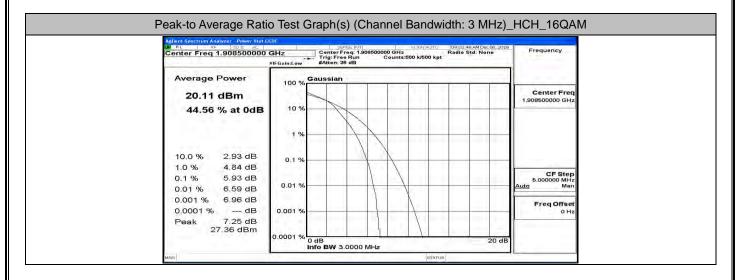


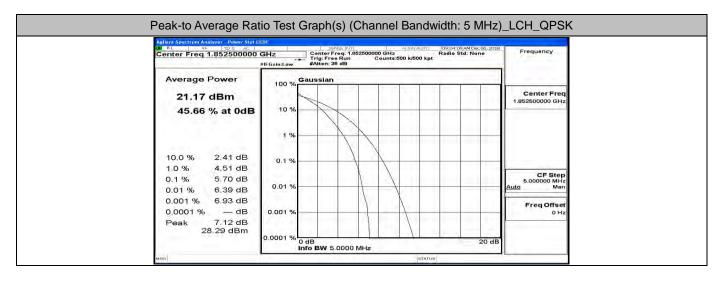


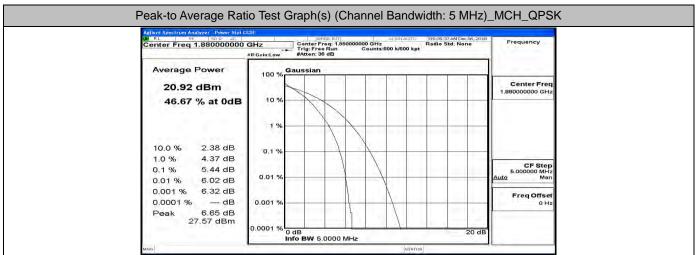


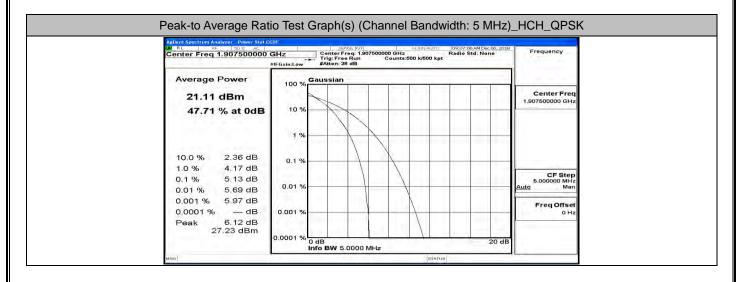


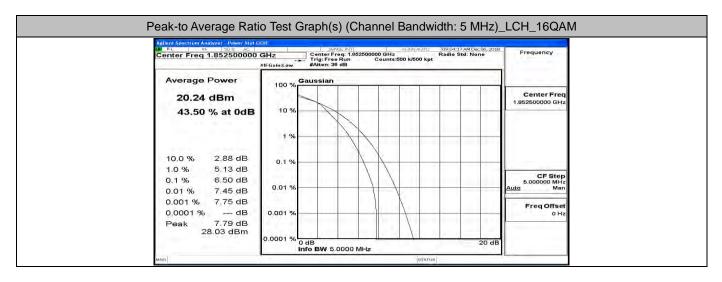


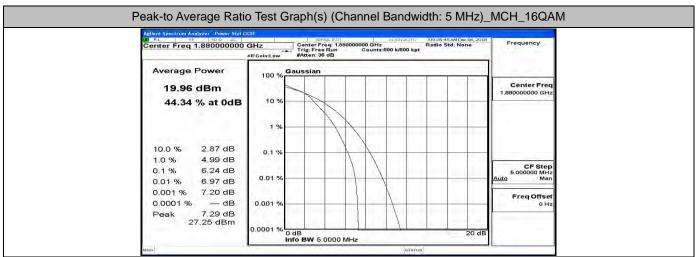


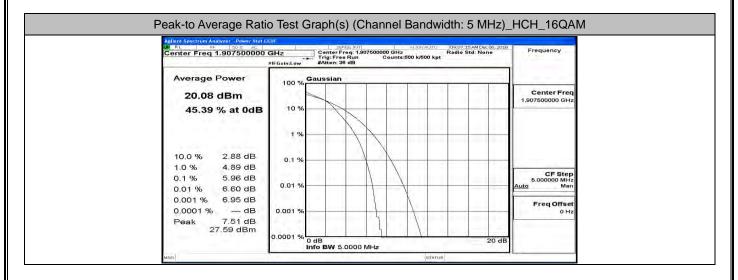


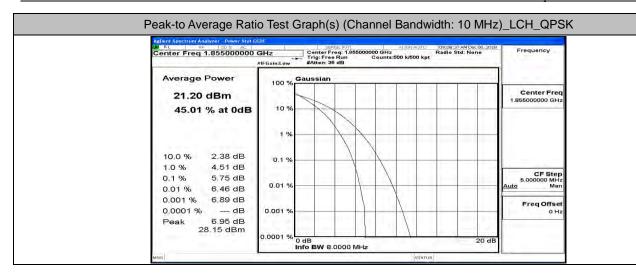


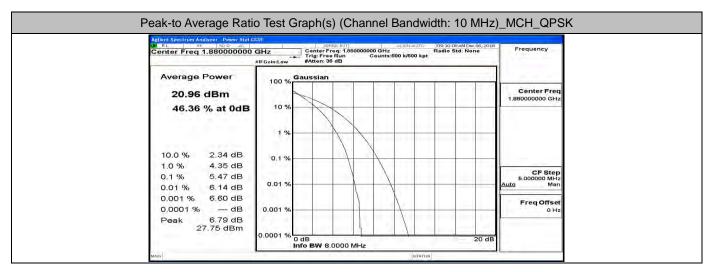


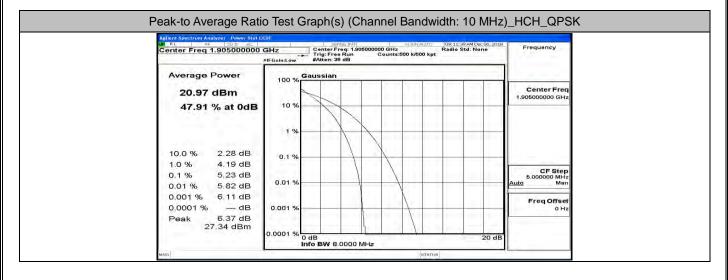


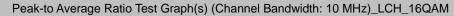


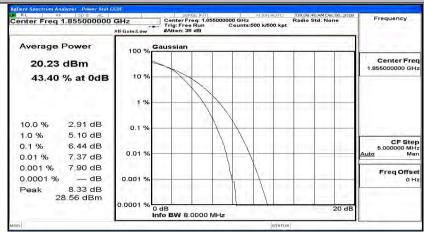




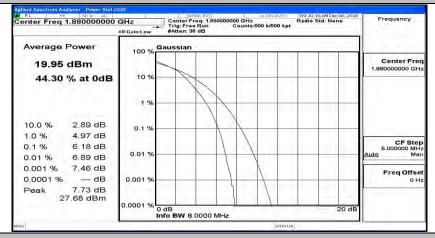




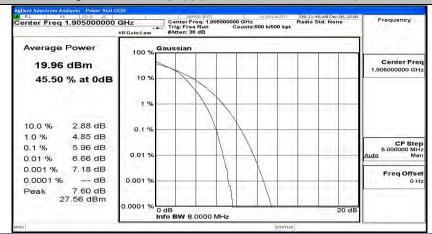




Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



0.001 %

Peak

0.0001 %

5.80 dB

--- dB

5.93 dB

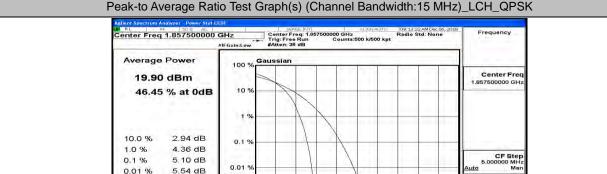
25.83 dBm

0.001 9

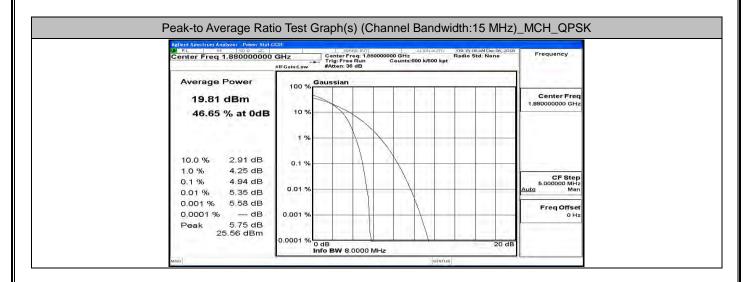
0.0001 %

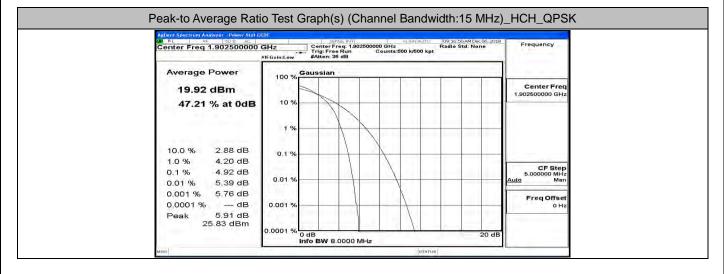
Freq Offset

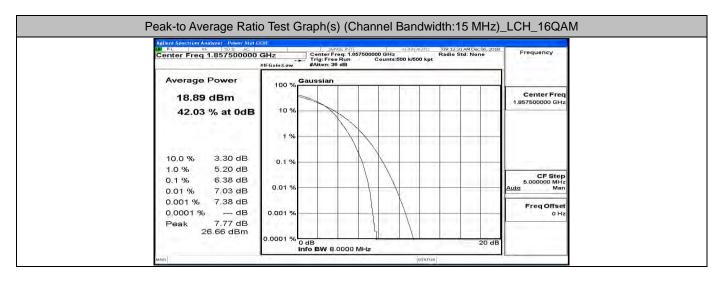
20 dB

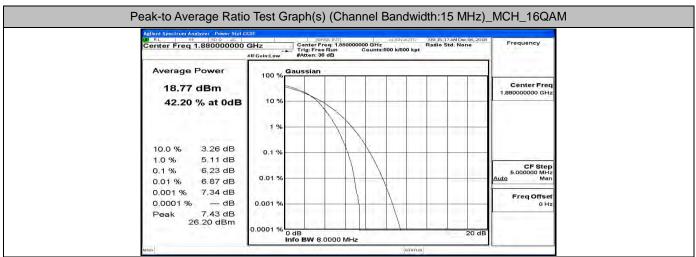


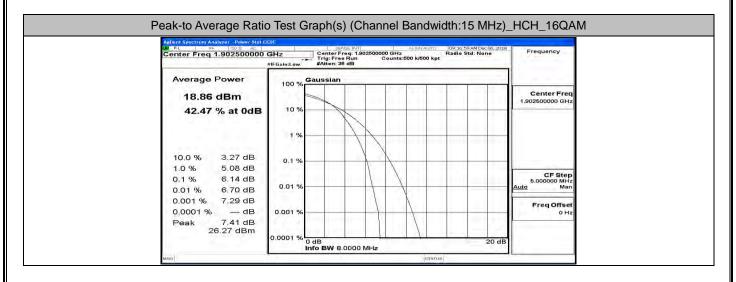
0 dB Info BW 8.0000 MHz

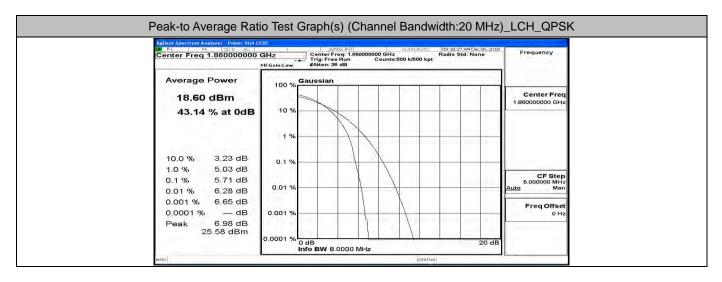


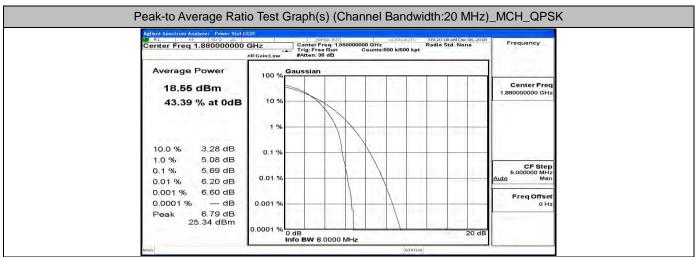


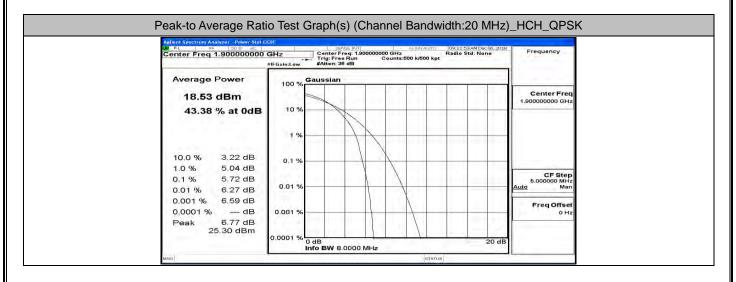


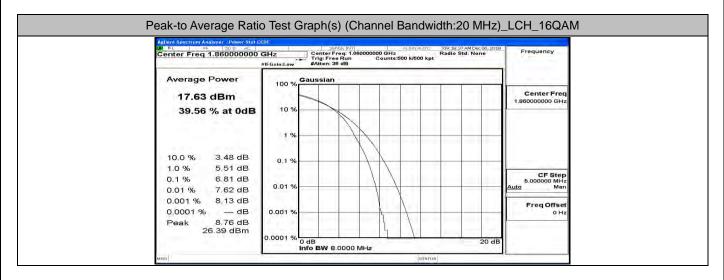


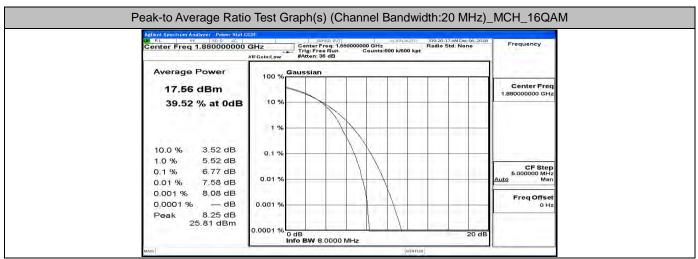


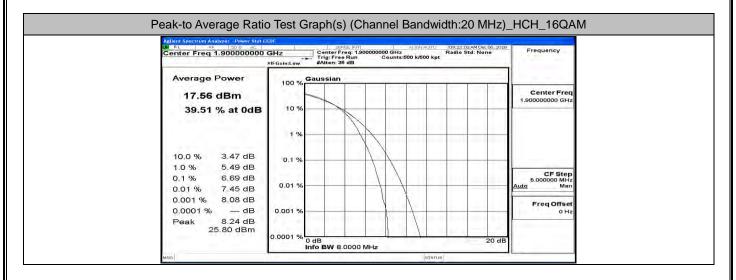












A.3 26dB Bandwidth and Occupied Bandwidth

EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation		(MHz)	(MHz)		
QPSK	LCH	1.0763	1.230	PASS	
	MCH	1.0731	1.226	PASS	
	HCH	1.0768	1.233	PASS	
16QAM	LCH	1.0781	1.228	PASS	
	MCH	1.0792	1.238	PASS	
	HCH	1.0750	1.233	PASS	

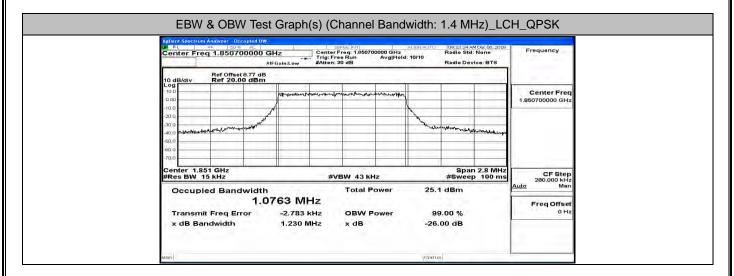
EBW & OBW Test Result (Channel Bandwidth: 3 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation	Chame	(MHz)	(MHz)		
QPSK	LCH	2.6763	2.821	PASS	
	MCH	2.6774	2.826	PASS	
	HCH	2.6809	2.828	PASS	
16QAM	LCH	2.6800	2.824	PASS	
	MCH	2.6756	2.834	PASS	
	HCH	2.6810	2.829	PASS	

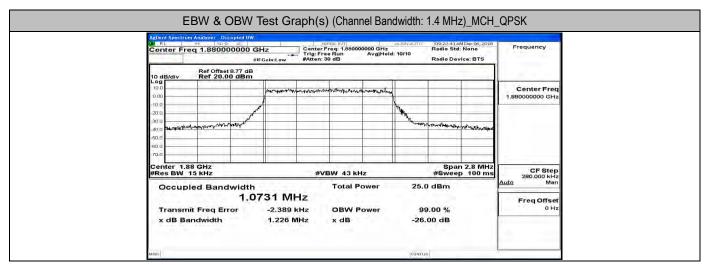
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation		(MHz)	(MHz)		
QPSK	LCH	4.4808	4.864	PASS	
	MCH	4.4762	4.863	PASS	
	HCH	4.4717	4.869	PASS	
16QAM	LCH	4.4718	4.869	PASS	
	MCH	4.4742	4.863	PASS	
	HCH	4.4810	4.838	PASS	

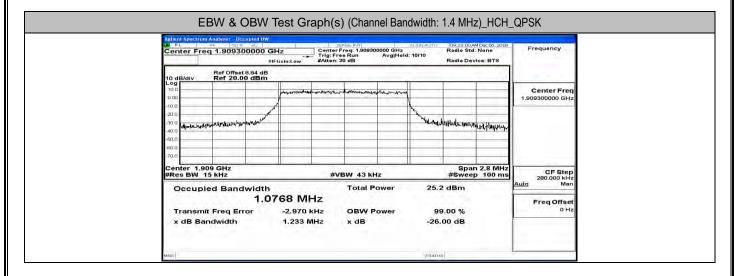
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation		(MHz)	(MHz)		
QPSK	LCH	8.9492	9.479	PASS	
	MCH	8.9422	9.465	PASS	
	HCH	8.9195	9.440	PASS	
16QAM	LCH	8.9438	9.494	PASS	
	MCH	8.9404	9.561	PASS	
	HCH	8.9387	9.466	PASS	

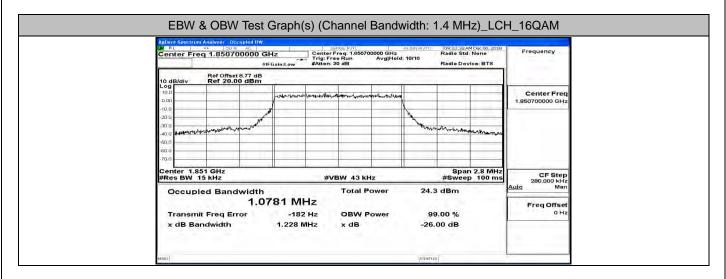
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation		(MHz)	(MHz)		
QPSK	LCH	13.405	14.14	PASS	
	MCH	13.396	14.16	PASS	
	HCH	13.364	14.01	PASS	
16QAM	LCH	13.413	14.18	PASS	
	MCH	13.402	14.11	PASS	
	HCH	13.366	14.06	PASS	

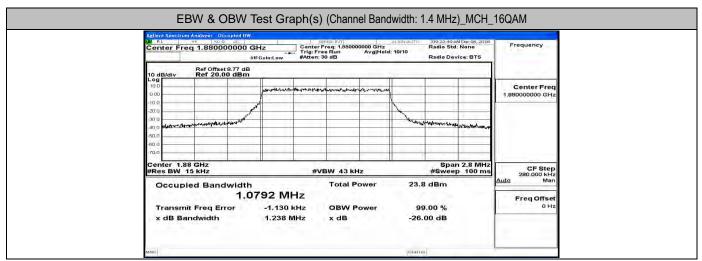
EBW & OBW Test Result (Channel Bandwidth: 20 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation		(MHz)	(MHz)		
QPSK	LCH	17.870	18.59	PASS	
	MCH	17.831	18.71	PASS	
	HCH	17.833	18.63	PASS	
16QAM	LCH	17.864	18.63	PASS	
	MCH	17.852	18.57	PASS	
	HCH	17.839	18.61	PASS	

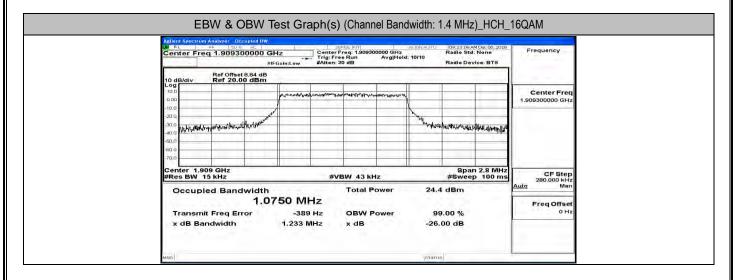


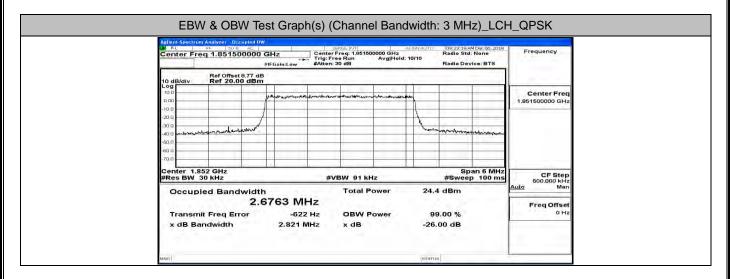


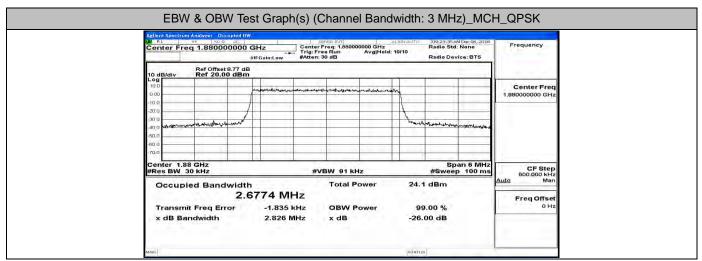


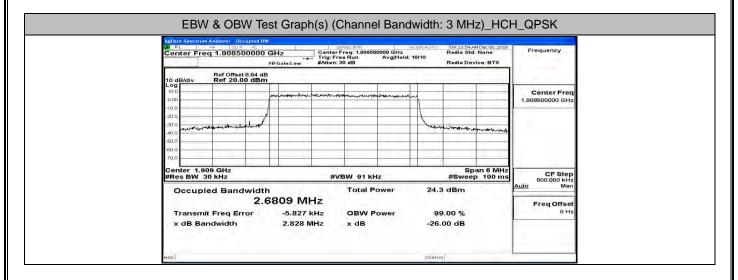


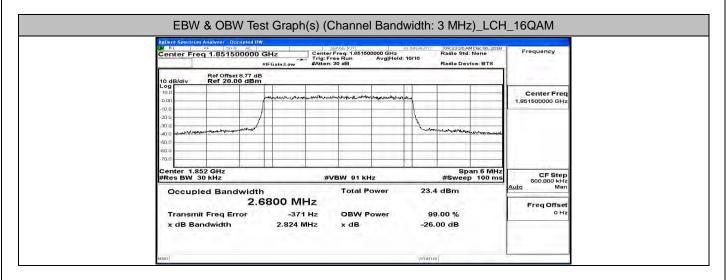


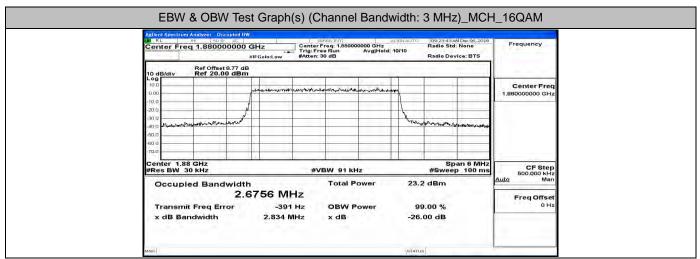


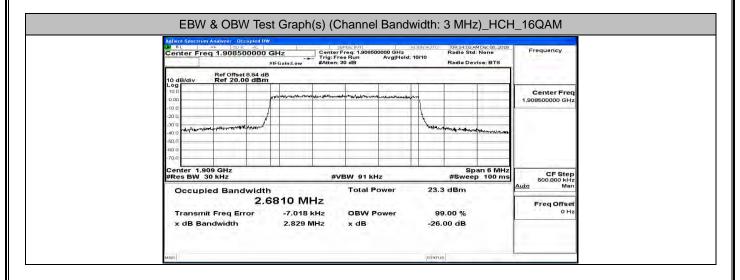


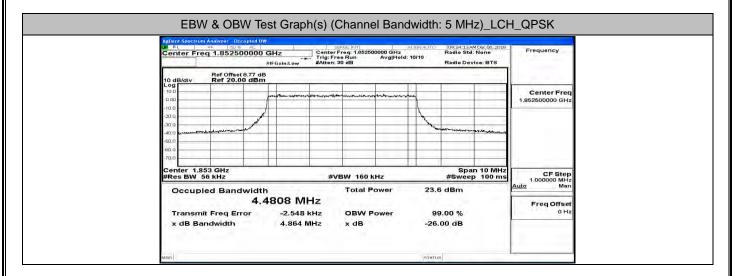


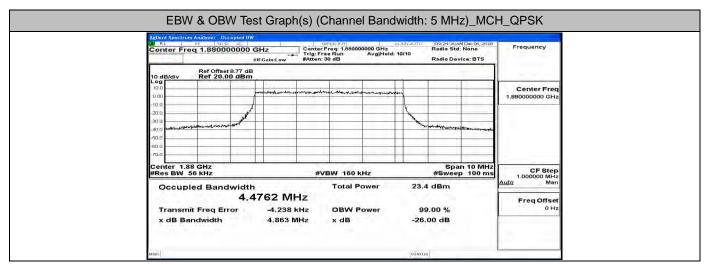


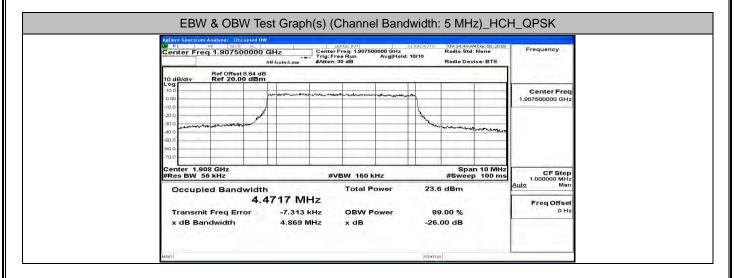


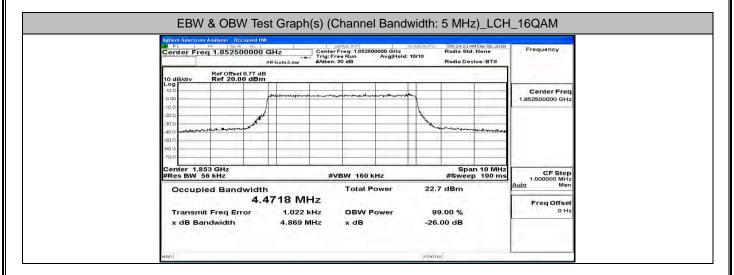


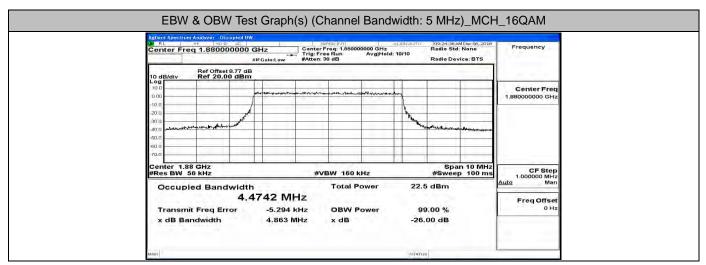


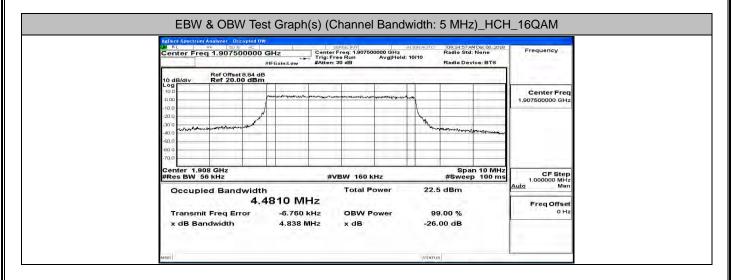


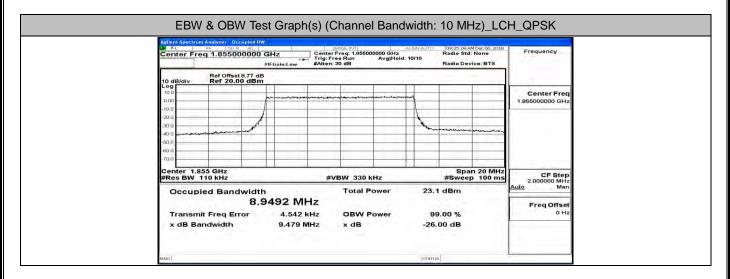


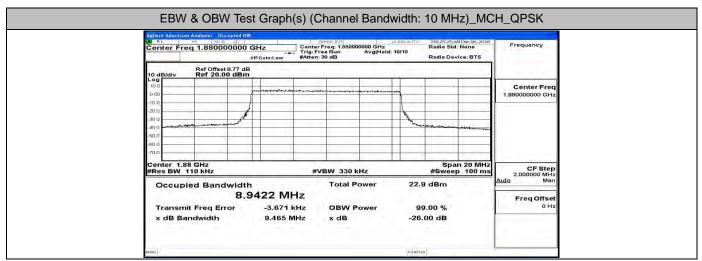


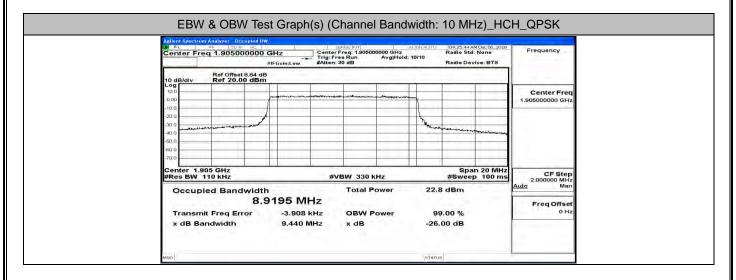


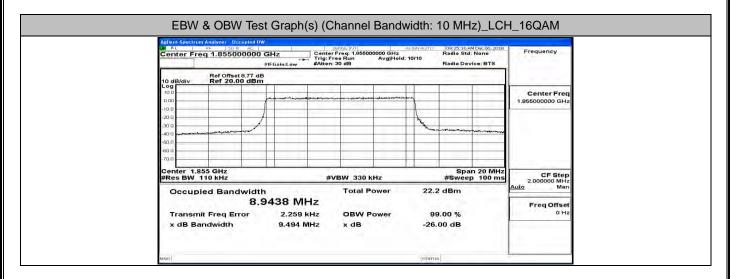


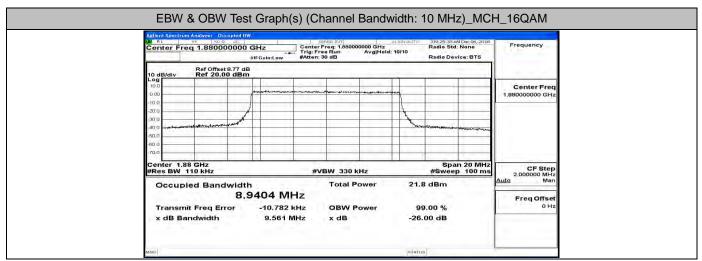


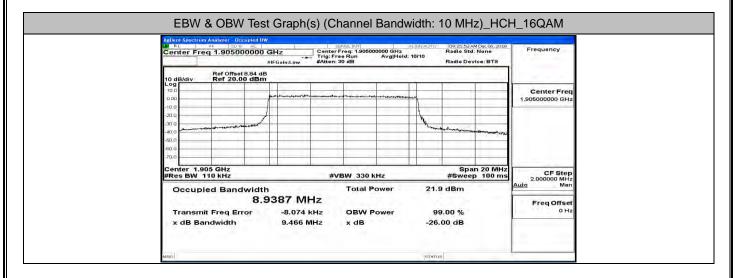


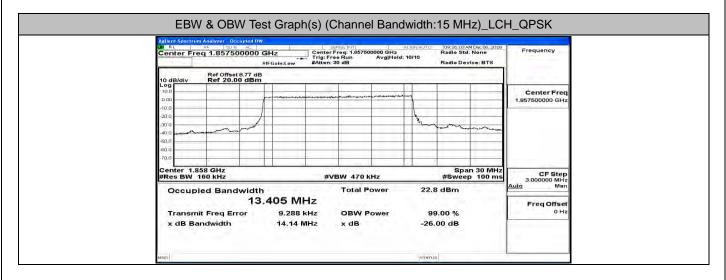


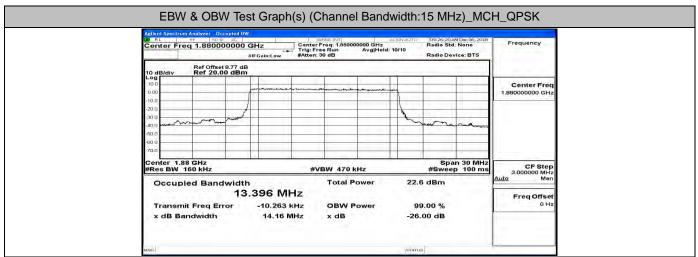


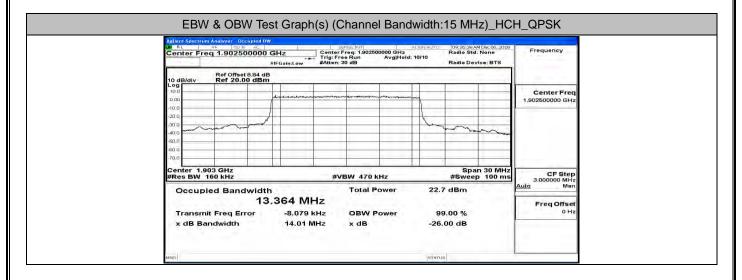


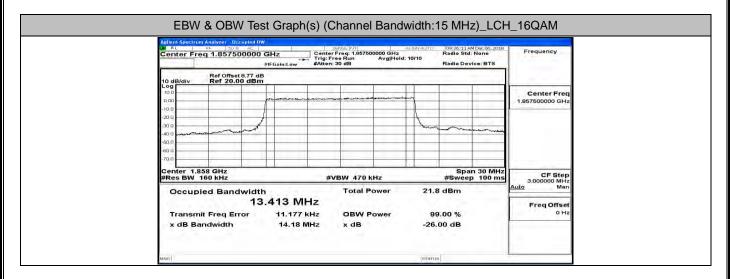


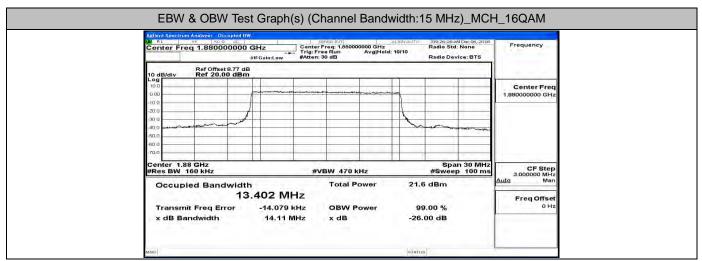


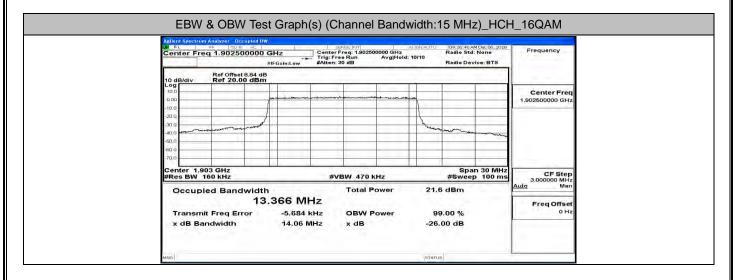


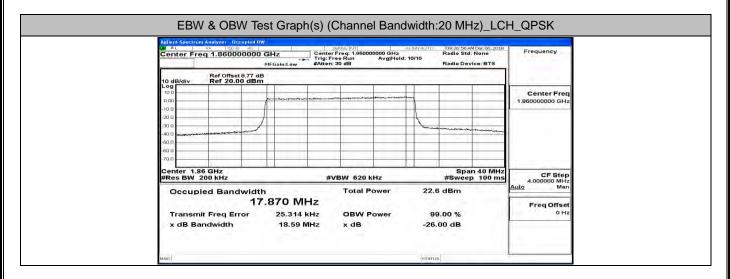


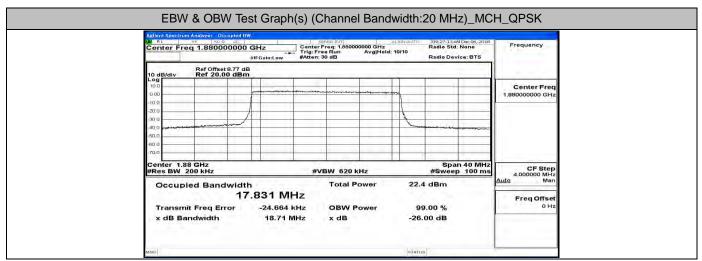


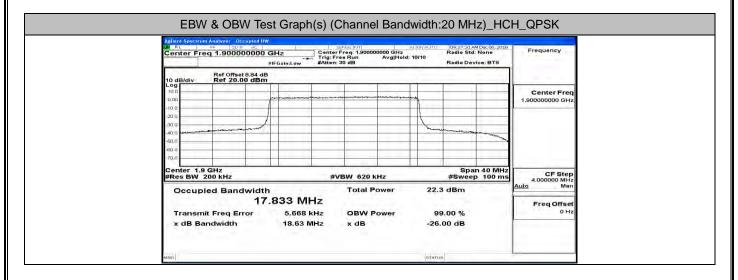


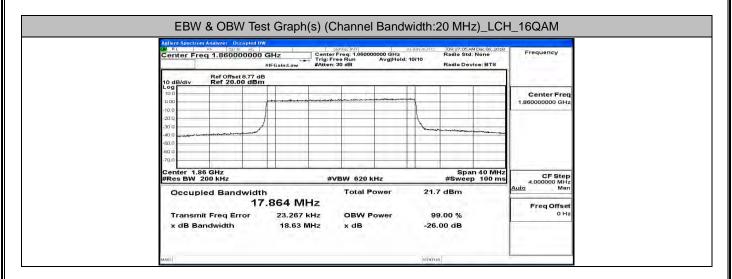


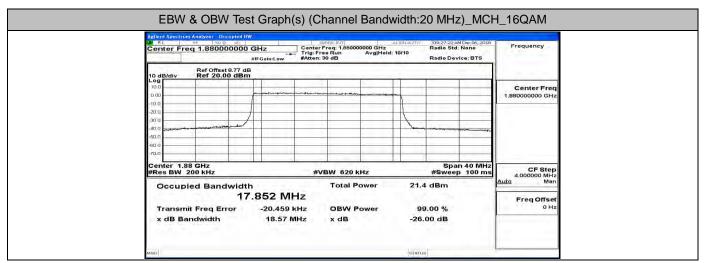


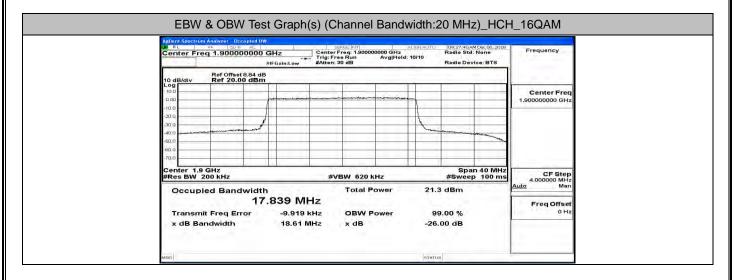




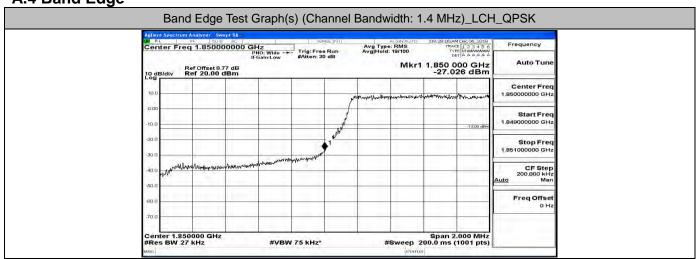


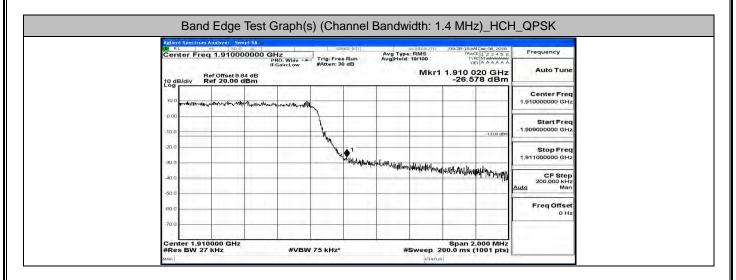


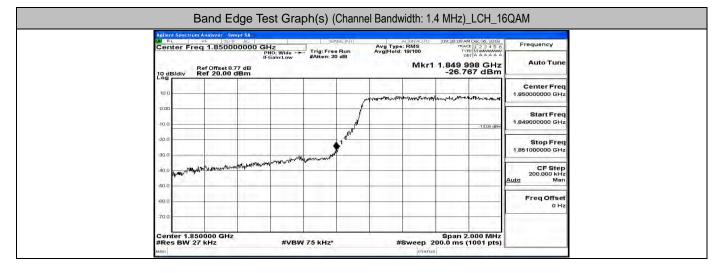


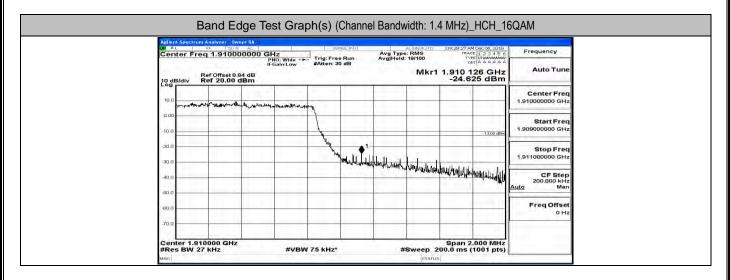


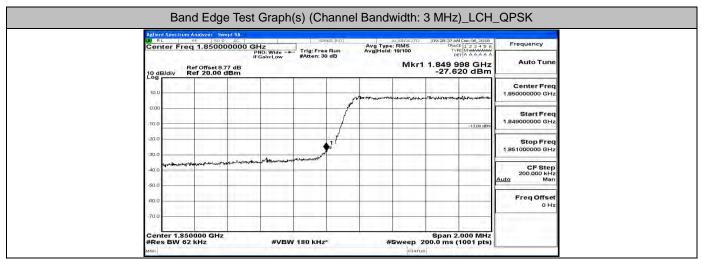
A.4 Band Edge

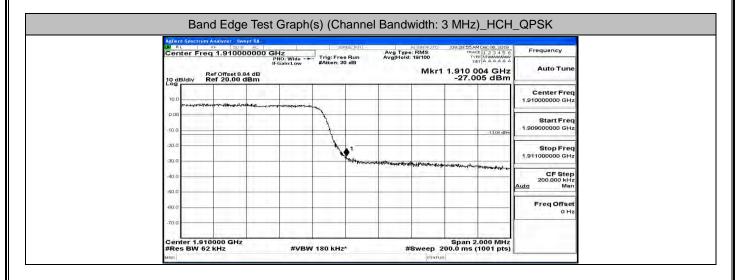


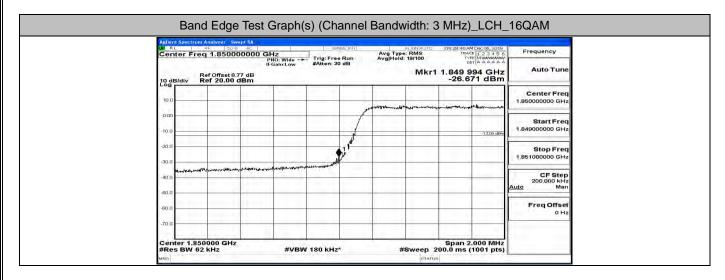


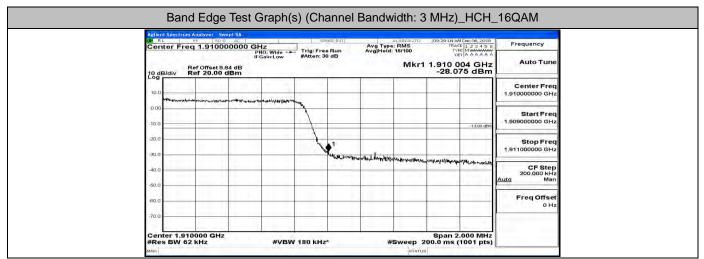


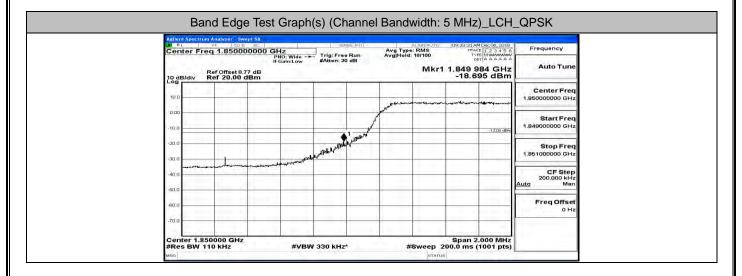


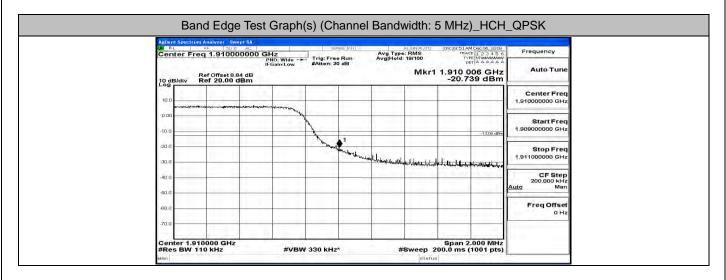


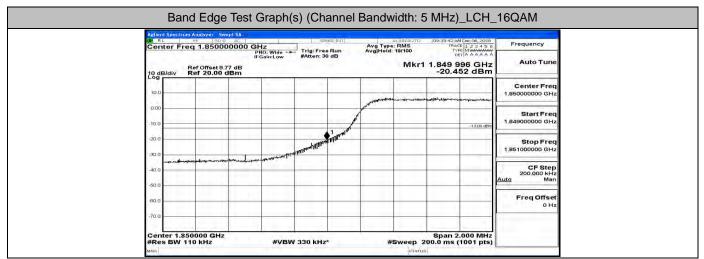


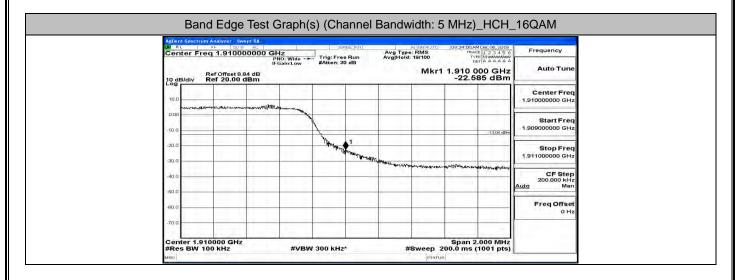


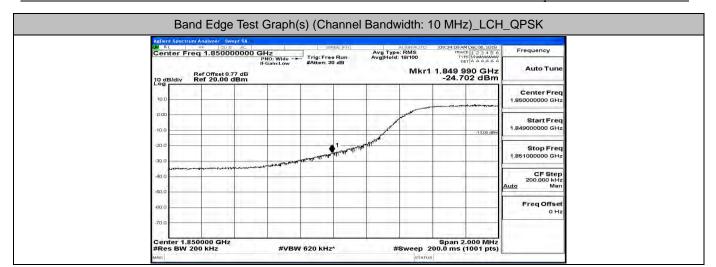


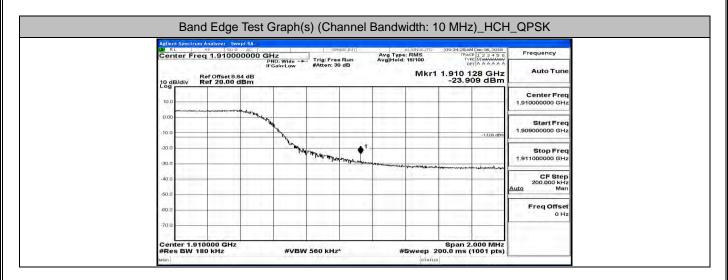


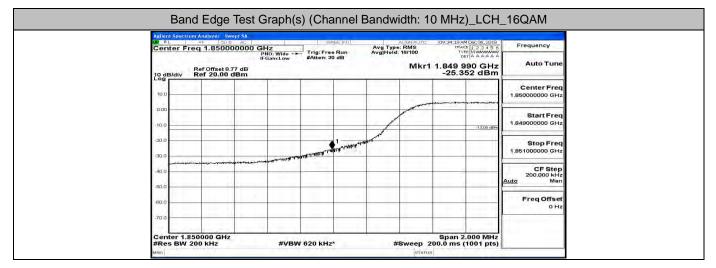


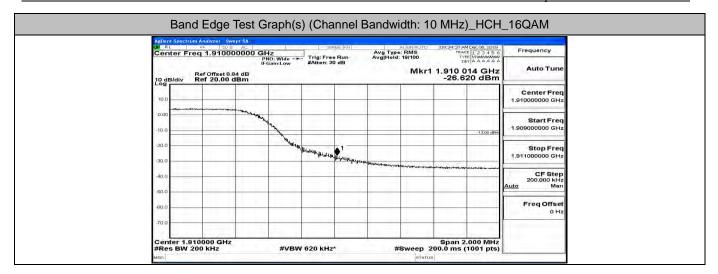


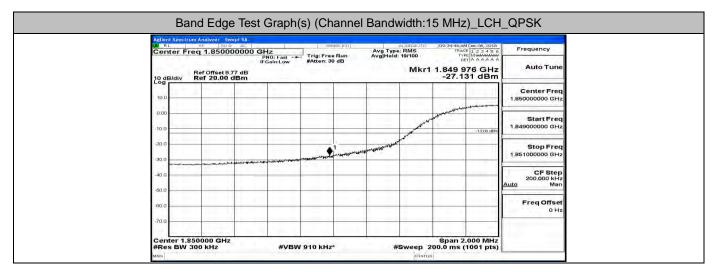


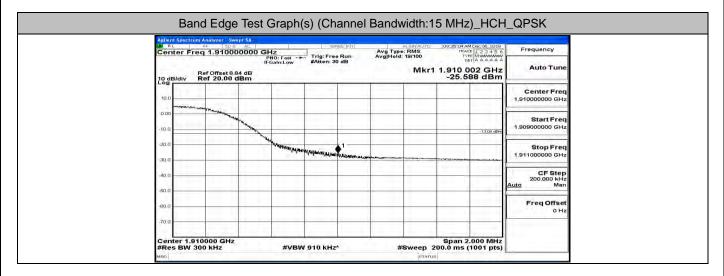


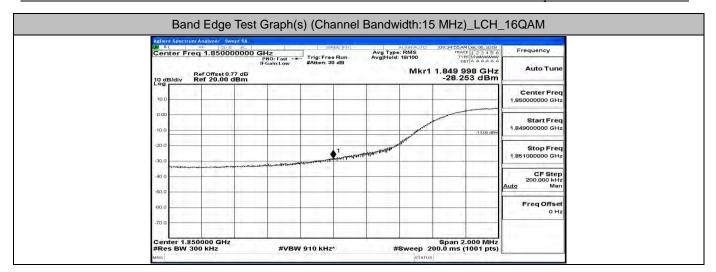


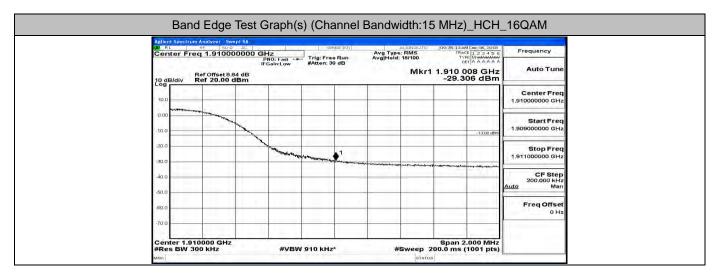


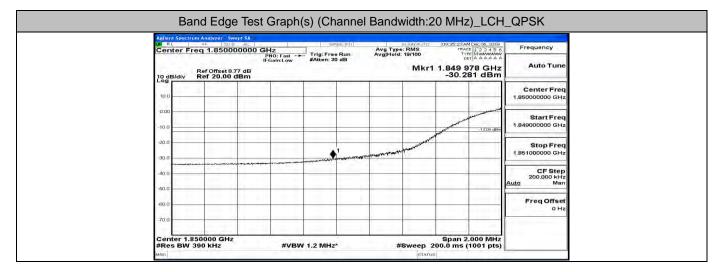


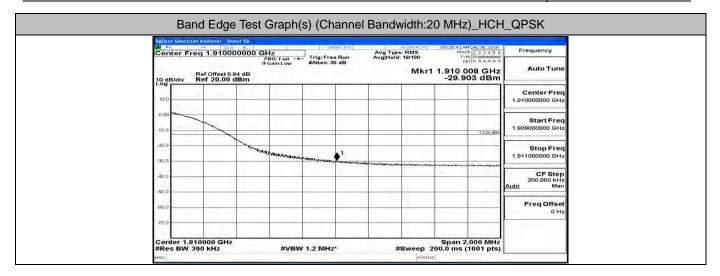


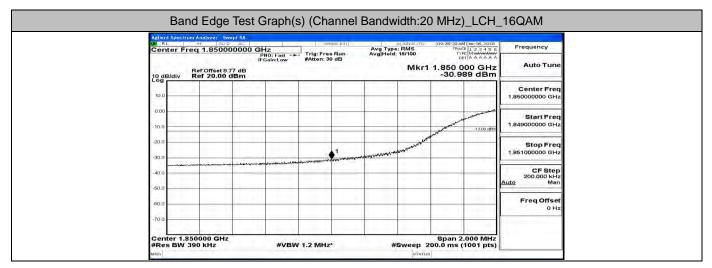


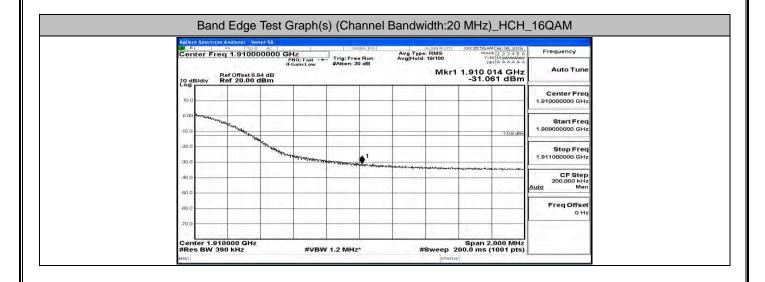












A.5 Conducted Spurious Emission

